



# AGENDA

## NORTH CAROLINA 911 BOARD MEETING

August 26, 2016

Banner Elk Room

3514A Bush Street

Raleigh, NC

10:45 AM – 12:30 PM

<u>Tab</u>	<u>Topic</u>	<u>Presenter</u>	<u>Time (min)</u>
	Call To Order	Chris Estes	
	Roll Call	Richard Taylor	5
1.	Chairman's Opening Remarks ~ Recognition of Victoria Van Nortwick Shift Supervisor, Will Caputo, Telecommunicator, Linwood McLawhorn, Telecommunicator	Chris Estes	15
2.	Ethics Awareness/Conflict of Interest Statement	Chris Estes	5
<b><i>In accordance with G.S. 138A-15, It is the duty of every Board member to avoid both conflicts of interest and potential conflicts of interest. Does any Board member have any known conflict of interest or potential conflict of interest with respect to any matters coming before the Board today? If so, please identify the actual or potential conflict and refrain from any undue participation in the particular matter involved.</i></b>			
3.	Consent Agenda ( <i>vote required</i> ) (Complete Reports Located in Agenda Book On Web Site)	Richard Taylor	10
	a) Minutes of July 29, 2016 Board Meeting		
	b) PSAP Liaison Report		
	c) Network Specialist Report – Tina Bone		
	d) Network Specialist Report - Corn		
	e) Update On 2015/2016 Revenue Expenditure Reporting		
	f) Grant Project Updates		
	g) Grant Fund Balance \$ 2,957,757		
	1) Grant Fund Encumbered \$ 23,023,397		
	h) NG911 Fund Balance \$ 4,812,547		
	1) NG911 Fund Disbursements \$ 0.00		
	i) CMRS Fund Balance \$ 3,731,095		
	1) CMRS Disbursements \$ 560,421		
	j) PSAP Fund Balance \$ 18,556,040		

1) PrePaid CMRS Revenue \$ 962,964

4. Public Comment

Chris Estes

*The NC 911 Board welcomes comments from state and local government officials, first responders, finance directors, 911 directors, citizens and interested parties about any 911 issue(s) or concern(s). Your opinions are valued in terms of providing input to the NC 911 Board members. When addressing the Board, please state your name and organization for the record and speak clearly into the microphone.*

Speakers:

- |     |   |                               |    |
|-----|---|-------------------------------|----|
| 5.  | Executive Director Report<br>a) Update on Back Up PSAP Implementation   | Richard Taylor                | 5  |
| 6.  | Education Committee Report<br>a) Recommendation to Fund Two Classes at the Upcoming<br>NC Public Safety Conference<br><i>(vote required)</i><br>b) Recommendation On Filing Comments Regarding Reclassifying<br>Public Safety Telecommunicators as "Protective" Occupations<br><i>(vote required)</i> | Jimmy Stewart                 | 15 |
| 7.  | Grant Committee Report<br>a) Approval of 2017 Grant Recipients<br><i>(vote required)</i>  | Rick Isherwood                | 15 |
| 8.  | Standards Committee Report<br>a) Approval of Peer Rules Review Attributes<br><i>(vote required)</i>   | Laura Sykora                  | 10 |
| 9.  | Funding Committee Report<br>a) Update On PSAP Funding Work Session  | Jason Barbour                 | 10 |
| 10. | NG911 Committee Update  | Jeff Shipp                    | 5  |
| 11. | School Safety Committee Update  | Dinah Jeffries<br>Greg Hauser | 5  |

Other Items

Adjourn



**Next 911 Board Meeting**

**September 30, 2016  
Banner Elk Room  
3514A Bush Street  
Raleigh, NC**

**911 Funding Committee**

Wednesday, September 7, 2016  
2:30 pm  
Banner Elk Room  
3514A Bush Street  
Raleigh, NC

**911 Education Committee**

Wednesday, Wednesday 21, 2016  
2:00 pm  
Banner Elk Room  
3514A Bush Street  
Raleigh, NC

**School Safety Committee**

Tuesday, September 27, 2016  
2:00 pm  
Orange Co Emergency Services  
510 Meadowlands Dr  
Hillsborough, NC

**911 Standards Committee**

Thursday, September 8, 2016  
10:00 am  
Banner Elk Room  
3514A Bush Street  
Raleigh, NC

**NG911 Committee**

Thursday, September 22, 2016  
10:00 am  
Banner Elk Room  
3514A Bush Street  
Raleigh, NC

*North Carolina 911 Board Meeting and Semi-Annual Work Session*

**MINUTES**

**NC Telecenter**

**415 East Blvd, Williamston, NC**

**July 29, 2016**

**10:00 AM – 12:00 PM**

<b><u>Members Present</u></b>	<b><u>Staff Present</u></b>	<b><u>Guests</u></b>
Jason Barbour (NCNENA) Johnston Co. 911 (911 Board Vice Chair)	Richard Bradford (DOJ)	Ron Adams, Southern Software
Dave Bone (NCACC) Martin County	Tina Bone (DIT)	Cliff Brown, Federal Engineering
Darryl Bottoms (NCACP) Pilot Mountain PD (WebEx/phone)	Ronnie Cashwell (DIT)	David Brown, Hertford Co 911
Eric Cramer (LEC) Wilkes Communication (WebEx/phone)	Dave Corn (DIT)	LaShonda Cartwright, Martin Co 911
Chris Estes (911 Board Chair) (WebEx/phone)	David Dodd (DIT)	Roger Dail, Jones/Lenoir 911
Rick Edwards (CMRS) Sprint (WebEx/Phone)	Karen Mason (DIT)	Nicole Ford, WCTI 12
Len Hagaman (Sheriff) Watauga County	Marsha Tapler (DIT)	Tom Farnitano, Motorola/ECW
Greg Hauser (NCSFA) Charlotte Fire Department	Richard Taylor (DIT)	Joe Gurley, Wayne Co
Rick Isherwood (CMRS) Verizon		Casandra Hoekstra, NCACC
Jeff Shipp (LEC) Star Telephone		Jerri King, Jones/Lenoir 911
Rob Smith (LEC) AT&T (WebEx/phone)		Jim Lockard, Federal Engineering
Jimmy Stewart (NCAREMS) Hoke Co. 911		James McLeod, CenturyLink
Slayton Stewart (CMRS) Carolina West Wireless (WebEx/phone)	<b><u>Staff Absent</u></b>	Cordell Palmer, Chowan Co 911
Laura Sykora (LEC) CenturyLink (WebEx/phone)		Tonya Pearce, Durham 911
		Erik Randlov, WCTI 12
		Ronnie Smith, Martin Co Commissioners
<b><u>Members Absent</u></b>		Jason Stewart, Martin Co 911
Dinah Jeffries (NCAPCO)		Candy Strezinski, Iredell Co 911

Orange Co. Emergency Services		
Andrew Grant (NCLM) Town of Cornelius		Victor Williams, BCSO 911
		Paul Winstead, CenturyLink
		<b>WebEx Attendees</b>
		Randy Beeman, Cumberland Co ES
		Rachel Bello, Wake Co
		Michael Cone, Wilson Co 911
		Brian Drum, Catawba Co 911
		Greg Foster, Alexander Co 911
		Jon Greene, GeoComm
		Del Hall, Stokes County 911
		Grant Hunsucker, Montgomery Co ES
		Melanie Neal, Guilford Metro 911
		Philip Penny, NC NENA
		Diane Raynor, Harnett Co 911
		Michael Reitz, UNC Public Safety
		Corrine Walser, MEDIC
		Stephanie Wiseman, Mitchell Co 911
		Donna Wright, Richmond Co ES

1. Chairman's Opening Remarks

North Carolina 911 Board Chair Chris Estes called the meeting to order at 10:00 AM via remote access, with apologies to the meeting attendees for being unable to be physically present due to a business conflict which required him to remain in Charlotte until about 10:00 PM Thursday night. He observed he would be enjoying the use of technology today, saying he appreciated David Dodd and his team for setting up the remote access which enables him to do that. Chairman Estes then recognized Ronnie Smith, Chairman of the Martin County Board of Commissioners, and 911 Board Executive Director Richard Taylor invited Mr. Smith to go to the podium to offer his welcoming remarks.

Mr. Smith began his remarks with a light hearted joke, observing that life is good and saying if you can't take any situation and find the love and humor within it, you're "in the wrong business". He thanked everyone in attendance, especially the 911 Board members, for their dedication to 911, reminiscing on how the General Assembly recognized the need in 1989 which resulted in the presence of everyone here today and the important work they do. He said he had intended to share some of the great attractions Martin County has to offer, but after listening to several conversations before the meeting observed it appeared folks had already discovered places *he* hadn't even

been to, garnering laughter about the room. He then said "On behalf of the Board of Commissioners, all of the elected officials, and all the great citizens of Martin County, we welcome you," encouraging everyone to "please come back and spend more time with us...and always bring money!" More laughter and applause followed as he stepped away from the podium.

Mr. Taylor told Mr. Smith he did have to brag on Dave Bone a little bit, saying that for the last two days Mr. Bone has kept everyone entertained with all the great things in Martin County, from a delicious dinner at the Hitchin' Post restaurant Wednesday evening to another at Deadwood last night. He added the facility here is wonderful and the county folks who have helped have been wonderful. He observed the people of Martin County have done a lot with their "little county" that has a big county feel, and that they have a lot to be proud of.

Chairman Estes then asked Mr. Taylor to call the roll of Board members attending the meeting remotely, which he did. Darryl Bottoms, Rick Edwards, and Dinah Jeffries did not respond, while Rob Smith, Slayton Stewart, and Laura Sykora all affirmed they were connected. Mr. Taylor offered to Chairman Estes that a quorum was present, and added that Vice-Chair Barbour was sitting in the Chair's seat today to assist him onsite. Chairman Estes thanked Mr. Barbour, and advised that should his connectivity fail for some reason he would ask Mr. Barbour to take over the meeting until he could reconnect.

## 2. Ethics Awareness/Conflict of Interest Statement

Chairman Estes read the conflict of interest statement and asked if there were any conflicts to be identified. Laura Sykora said she would not be voting on the RFP for the NMAC or participating in the closed session, and Rob Smith said the same would hold for him. No other conflicts were declared, and Chairman Estes reminded everyone should any conflicts arise during the meeting, please bring them to the Board's attention at that time.

Vice-Chair Barbour advised Chairman Estes that there was still another topic to be addressed from Agenda Item 1: the recognition of a Martin County 911 telecommunicator for outstanding work. Chairman Estes asked Mr. Taylor and Vice-Chair Barbour to facilitate that recognition for him.

Mr. Taylor began by noting this is the first recognition the Board has had involving a text-to-911 call, and the individual who sent the text was trying to commit suicide (for a written synopsis of the call, please see <https://ncit.s3.amazonaws.com/s3fs-public/documents/files/07292016-Agenda%20Book%202.pdf> page 6). Mr. Taylor then played a portion of the 911 call audio transcript in which telecommunicator LaShonda Cartwright established telephone contact with the young man who had sent the text and kept him occupied to divert his attention from his intention until a Sheriff's Deputy arrived and disarmed him. Mr. Taylor commended Ms. Cartwright for going the extra distance to figuratively take that young man into her arms and comfort him and distract him until the situation could be defused. With that, he and Vice-Chair Barbour presented

Ms. Cartwright with a plaque commemorating her professionalism and commitment to public safety and thanking her for striving to make North Carolina's 911 system excellent. (<https://ncit.s3.amazonaws.com/s3fs-public/documents/files/07292016-Agenda%20Book%202.pdf> page 7).

Ms. Cartwright then addressed the group saying that while she sincerely appreciates the Board wanting to present her with this award, she absolutely loves her job and what it allows her to do. She added that much of the credit must go to her wonderful boss (Martin County 911 Director Jason Steward) and the Martin County Board of Commissioners, who not only gave her this job, but who take the time to stay attuned to what goes on in the 911 center, visiting and observing regularly. She once again thanked all for the award, reiterating "I love my job!"

### 3. Consent Agenda

Chairman Estes thanked Ms. Cartwright for the great job she does, then asked Mr. Taylor to walk through the consent agenda.

**Minutes of 6/24/16 Board Meeting** – Mr. Taylor reported that Jimmy Stewart had suggested several corrections to the minutes when the first draft was distributed for review. After making those corrections he distributed another draft, and Rob Smith observed the minutes indicated he had attended the meeting, but he had not. With that, Mr. Taylor struck Mr. Smith from the attendee list and added him to the absentee list, asking if anyone had any further additions or corrections at this time. None were offered.

**Grant Fund Balance** – Mr. Taylor reported the Grant Fund balance now stands at \$2,940,178.00, with an encumbered amount of \$24,731,896.00. He observed the Grant Committee will be meeting August 11<sup>th</sup>, so the grant awards FY17 will be announced at the August Board meeting. He added we are closing out several existing grants, but will be looking at some small extension requests later in the meeting for other projects that are almost complete.

**NG911 Fund Balance** – Mr. Taylor observed no disbursements have yet been made from the NG911 Fund, with the balance presently standing at \$4,203,563. He added, however, that as we move ahead with FY17, 911 Board Financial Analyst Marsha Tapler has earmarked some of the NG911 project expenses to be paid from the fund.

**CMRS Fund Balance** – Mr. Taylor reported the CMRS fund balance stands at \$3,632,364.00 after disbursements for the month of \$197,868.00, adding a good portion of that balance will likely be moved to the grant fund.

**PSAP Fund Balance** – Mr. Taylor stated the PSAP Fund balance is presently \$17,961,527.00, with PrePaid revenue having come in at \$1,602,286.

Mr. Taylor offered to field any questions on the consent agenda, and hearing none, Chairman Estes asked for a motion to accept it as presented. Jeff Shipp so moved, Greg Hauser seconded, and the motion carried unanimously.



#### 4. Public Comment

Chairman Chris Estes opened up the floor for comments from state and local government officials and other interested parties. No participants had registered with Mr. Taylor prior to the meeting, but Vice-Chair Barbour announced that Beaufort County Sheriff's Office 911 Director Victor Williams had asked to speak this morning. Chairman Estes invited Mr. Williams to step to the podium, state his name for the record, and share his message to the Board.

Mr. Williams said he wanted to take a moment to ask the Board to help in an ongoing national effort to reclassify telecommunicators from simply an "Office and Administrative Support Occupation" (e.g. "secretary") classification to a public safety (e.g. "Protective") occupation designation. Although National APCO and National NENA thought they had gained momentum in having this disparity addressed, APCO recently announced that it appeared the reclassification had encountered resistance, and APCO is taking steps to reach out to and educate federal officials as to the importance of the effort. Mr. Williams observed it is going to take input from virtually everyone in this profession to make this happen, and personally asked that each Board member make personal contact with his or her elected representatives in Washington DC expressing their support. He added he would also like each Board member to ask the organization he or she represents, whether public or private, to do likewise. He also asked any who have counterparts within other states to urge those counterparts to become involved as well. Mr. Williams said we can't just sit back and hope this important change takes place; we have got to work diligently as a group to try to ensure it does.

Vice-Chair Barbour and Chairman Estes thanked Mr. Williams for his comments, and asked if there were any other people present who wished to speak. Vice-Chair Barbour reported he saw no others wishing to come forward. Chairman Estes then asked if there were any comments regarding Mr. Williams' request, and Chief Hauser relayed that APCO had a conference call/WebEx yesterday regarding this issue. He said they provided a thorough explanation of this issue which he found particularly disturbing as a fire service professional. He then read off a couple of bullets from that WebEx:

- The reason for not changing the classification from clerical work to public safety (he said he would summarize) was "the work performed by 911 professionals is that of a dispatcher and not of a first responder."
- "Most dispatchers are precluded from administering actual care, only talking someone through procedures or providing advice."

Chief Hauser offered that is very concerning to him, having been a telecommunicator his entire career. He said he agrees with Mr. Williams that it's an issue; we're expected to continuously demand perfection from our telecommunicators and yet pay them only what we're paying them as clerical staff. He observed that is exactly the stuff that continues to cause turnover and prevent people from wanting to make this profession a career. He added that the NC State Firemen's Association has committed to supporting getting that classification changed.

Chairman Estes thanked Chief Hauser for sharing that, adding that Ms. Cartwright's example perfectly illustrates how she saved that young man's life; if it wasn't for her

actions that young man might not be alive today, so he cannot understand that reasoning. He said we will do what we can as a Board and, as Mr. Williams said, it's an issue that we will have to take to a federal level, so we'll need to write our representatives in congress.

Ms. Sykora asked Chief Hauser if APCO had a draft letter or had drafted language to be used in contacting congressional representatives. Chief Hauser said yes, they are working on that right now; they are going to provide some suggested language for everyone to start that process very soon.

Vice-Chair Barbour asked Chairman Estes if, after APCO or maybe NASNA has decided upon any type of language to use, a letter could be circulated among Board members to get approval soon, hopefully before the next Board meeting, to send to all the NC officials we have in Washington. He indicated he wants to keep this in the forefront, and certainly on the agenda for the Board's August meeting. Chairman Estes agreed, saying if the Board would like to take a formal position and a vote on this matter it would come in the form of a motion and a second at the appropriate time, which he said he did not think was today, if that's what Board members choose. He then asked 911 Board Counsel Richard Bradford if there was any legality preventing the Board from taking such a position.

Mr. Bradford said there was not a conflict. He added, however, that there obviously might be some changes which need to occur in the state's legislation, but those would all be part of the Board's discussion. Chairman Estes noted it might be good for the Board to be aware of potential statutory issues before addressing this at the next Board meeting, to which Mr. Bradford agreed. He added, for general Board information, following the last meeting of the Education Committee, he has been reading rules from all of the states on several topics, training being one of them, and the discussion we're having right now pertains to much he has read. He said his intent was to provide that information back to the Education Committee at its next meeting, hopefully in a summary fashion so they don't have to wade through all the same materials, but it might further the discussion at the next Board meeting.

Jeff Shipp said, observing that he knows he is preaching to the choir, certification only adds weight to the issue we're discussing, so we've got to clear that hurdle. He added he knows that Jimmy Stewart and the Education Committee have got a plan going forward, but he simply wanted to underscore the importance of this. Chairman Estes asked Mr. Stewart to have the committee discuss this issue at its next meeting and offer suggestions to the Board. Mr. Stewart noted there are no Education Committee meetings scheduled between now and the next full Board Meeting, so he and Mr. Taylor said they would schedule one. Chairman Estes asked them to do that, because of the certification aspect.

## 5. Executive Director Report

Before beginning his report, Mr. Taylor noted he had seen some additional Board members log into the WebEx connection and paused to confirm those members'

presence with a voice query. Rick Edwards and Eric Cramer both responded they were online, and Mr. Taylor advised he had just been exchanging emails with Darryl Bottoms regarding difficulty he was experiencing with the access code and speculated that Chief Bottoms would be joining the meeting momentarily.

a) Update on PSAP/Finance Director meetings

Mr. Taylor began his report by noting yesterday had been the final of the four regional PSAP Managers Meeting held across the state during the past month. He observed all four meetings were the best attended ones to date, adding they started in Fayetteville, then Boone, then Statesville, and then yesterday in Williamston. He was pleased that many Finance Directors (and some County/City managers and their IT folks as well) took advantage of the invitation for them to attend these meetings, an invitation which had been extended for the first time with this round of meetings. Mr. Taylor said staff received a lot of good feedback from the attendees, especially at the Williamston meeting, adding that representatives from Richmond Community College attended each of the meetings to do surveys for the work they are doing in designing a PSAP Managers certification class and he felt they got a lot of good information as well. He relayed that staff uses these opportunities to bring attendees up to date on all the different projects the 911 Board has going on, as well as to hear feedback from the PSAP managers about what's going on with them. Noting that it will be coming up later in the meeting, he speculated that one of the biggest issues that came up was the Backup PSAP Plan issue. Mr. Taylor added he especially wanted to thank Board members who attended the meetings, including Sheriff Hagaman, Jeff Shipp, Greg Hauser, and Jimmy Stewart, Mr. Stewart having attended all four of the meetings. Mr. Taylor light-heartedly bestowed upon Mr. Stewart the title of "new roadie" for all the help he provided staff in setting up and breaking down equipment/furnishings for each of the meetings, thanking him for all his extra effort and thanking each of the other Board members who attended for being there as well.

b) Rockingham Co grant extension request

Mr. Taylor next turned to Rockingham County's request for a grant extension, noting this was their third request for an extension. Recalling that this grant started in 2011-2012 as a consolidation project, he said the last piece of the project has been trying to get the paging system up and running. He added they have been slowed by some personnel issues, but are now back on track, and in talking with their director Rodney Cates yesterday Mr. Taylor learned they are hoping to complete everything within the next two weeks with the only work remaining to be done being work on the tower. He noted they are asking for an extension to August 31<sup>st</sup>, have submitted a revised budget with no additional funding being requested, and the staff recommendation is for approval of the request. Chairman Estes asked for a motion to accept the staff recommendation. Rick Isherwood so moved, Darryl Bottoms seconded, and with no discussion following, the motion carried with Rob Smith recusing himself from the vote. Mr. Taylor checked to see that Chief Bottoms was online and had offered the second to the motion, which Chief Bottoms confirmed.

c) Henderson Co grant extension request

Henderson County's request for a grant extension was the next item in Mr. Taylor's report, and he relayed that their issue has been centered on diverse routing, or getting all the kinks in their routing worked out, which appears to now be resolved. Mr. Taylor said he wanted to particularly thank Rob Smith for assisting them with this effort, pointing the right folks in the right direction so everything could be resolved. He reported they are asking for an extension until September 30<sup>th</sup>, are not requesting any additional funding, and the recommendation from staff is to approve the request. Chairman Estes asked for a motion to accept the staff recommendation. Sheriff Hagaman so moved, Jason Barbour seconded, and with no discussion the motion carried with Rob Smith recusing himself from the vote.

6. Education Committee Report

Education Committee Chair Jimmy Stewart reported NC NENA has made a request for the 911 Board to fund five scholarships of \$1,000.00 each to the NENA Center Manager class to be held in Cary in October. He added the Board has historically funded this request over the years, and the Education Committee voted to pass this, so it is bringing the request to the Board in the form of a motion. Noting that a motion from committee does not require a second, Chairman Estes asked if there was any discussion or conflicts regarding the motion. Hearing none, he called the motion, which passed unanimously without abstention. He then asked if Mr. Stewart had any further updates from the committee, and Mr. Stewart responded not at this time.

Mr. Taylor interjected that just as a follow-up, staff will be working with Mr. Stewart and the Education Committee on exactly what the logistics will be for awarding the scholarships, speculating it will probably be similar to those in the past where PSAP managers will be asked to nominate recipients. He added once that is determined it will be posted to the website and distributed in the PSAP Managers newsletter.

7. Funding Committee Report

a) Request from Durham 911 to rent backup facility

Funding Committee Chair Jason Barbour reported the Funding Committee received a request from Durham 911 to use money from their existing 911 Fund balance to pay for renting Thor to serve as their backup center while their fixed site backup center undergoes a mandatory renovation. Chairman Estes asked if that was coming from the committee as a recommendation in the form of a motion, to which Vice-Chair Barbour replied it was. Noting that no second was necessary, Chairman Estes opened the floor to discussion, asking Mr. Barbour if he understood correctly no additional funds are being requested; that this only pertains to use of existing fund balance. Mr. Barbour confirmed that was the case. Chairman Estes then observed the backup capability is consistent with the legislation directing the Board to insure PSAPs have backup capability and asked if any other options had been explored or if this is just the best option. Mr. Barbour replied Mr. Taylor and Durham had pretty much "kicked the can" exploring options and determined this was the best one. Mr. Barbour also observed that due to Durham's size, it is difficult for them to find a fixed location in its vicinity which



would serve as a temporary backup solution. Chairman Estes then asked if any other Board members wished to discuss the topic.

Mr. Barbour acknowledged Jeff Shipp, who said he cares very deeply for Durham and has visited the site, and that he understands some of the issues it faces, but he feels this is just a lot of money and he wants to be reassured again by staff that there is no better alternative. Mr. Taylor replied staff and Durham representatives have explored every option anyone could offer, with he and Tonya Pearce (Deputy Director of Operations for Durham 911) having exchanged myriad emails (Mr. Shipp indicated he had read through those email exchanges), and that they were unable to come up with a more suitable solution. He acknowledged it is a lot of money at \$150K for a six-week period of time, but it's a situation where they have no other way around it short of leaving Durham without a backup for six weeks. He added the committee summed it up well when no members said they wished to be the one to deny such a request to a PSAP which already has a functional backup center and backup plan and then have something go wrong when it is without its backup capability. Mr. Shipp said that was his other concern; are we setting a precedent going forward? Mr. Taylor replied that is very possible. Mr. Barbour added the committee discussed that in great detail, but reiterated nobody on the committee wanted to tell Durham to go without backup capability for six weeks. Chairman Estes observed this underscores the need to continue to move forward as quickly as possible with our NextGen 911 capabilities which might have allowed Durham to distribute calls across the state in a different way had we had that capability now.

Mr. Barbour advised Chairman Estes that Tonya Pearce was present in the audience if anyone would like to ask her questions. Chairman Estes thanked Mr. Barbour for bringing that to his attention, and asked if any Board member wished to ask any questions. Laura Sykora said she would just like to add that as she remembered the Funding Committee discussion this remodeling of the backup center is not just a beautification project; there is black mold in the center, which is a health issue for the workers, so it is not an option to remodel—it is imperative to do so. She also added Durham has arranged to do it as quickly as possible, with an aggressive work schedule.

Chairman Estes asked what the consequence would be if the remodel takes longer than anticipated, i.e. longer than six weeks; would that mean the cost would go up? Mr. Taylor replied he didn't think it was a contracted price, i.e. it's \$100K per four weeks, and they're doing it for six weeks, asking Ms. Pearce if that was correct. Ms. Pearce replied that was not the case, then approached the podium to explain. After introducing herself, she said she wanted to assure the Board Durham has done its due diligence, understanding it is a lot of money, and wishes it wasn't necessary at all, adding they are looking forward to NextGen and being able to diversify and send calls to multiple places and take advantage of that technology. She stated they do not anticipate this taking more than four weeks; that's the plan that has been scheduled. She explained the beginning part of the plan involves making sure the technology is in place to have backup capability before the remodeling begins. She added they have absolutely no intention of going over six weeks, no matter what happens, saying they will have the



ability to put things in different places and be sure that they have a work-around. She light-heartedly noted she actually told the committee this has required more scheduling than a Nutcracker ballet at Christmas-time, with people working on weekends, people working nights, etc., to ensure all that is taken care of.

Chairman Estes thanked Ms. Pearce and asked if there was any further discussion from the Board. Sheriff Hagaman asked Ms. Pearce where Thor will actually be located. She replied it will be located at Camden Avenue, which is a good distance from their primary PSAP, noting they did not want it to be in close proximity in case something did happen which could potentially impact both. She added that is a secure location where their radio shop is located. Mr. Barbour said he assumed it will be hot throughout the deployment, and Ms. Pearce said it will be.

Chairman Estes observed that there may be an event in the future when we may have to again deploy this technology, this Thor capability, and asked if Durham would be willing to share lessons learned during this deployment with the Board. Ms. Pearce replied that not only would they be happy to do that, but would also encourage any Board members who wanted to come see Thor during the deployment to please do so.

Greg Hauser asked, saying he was putting on his emergency management hat, if Thor could also be used to augment PSAP capabilities in the event of a widespread, large scale type disaster; if that's something that they (Thor's operators, West Corporation) could stand up to supplement for anyone's usage. Mr. Taylor replied that as anyone who saw it in Cornelius can attest, it is a very unique piece of equipment—a two-story tractor-trailer packed full of technology that allows it to operate on just about any radio system, phone system, etc. Chief Hauser then recalled he had heard of it before. Mr. Barbour added it has been used in North Carolina—Union County used it when their main center was down for repairs. Mr. Taylor recalled he believed they used it for about six months, having set it up outside their PSAP because they had to do a similar remodel, but to their primary center, not their backup center.

Rob Smith advised he thought it wise to recuse himself from this vote due to contractual arrangements between West Corporation and AT&T, which Chairman Estes duly noted, also asking if any other Board members felt they might have a conflict. Ms. Sykora replied she felt she should for the same reasons cited by Mr. Smith. Chairman Estes once again asked if there were any further comments/questions.

Rick Isherwood asked Ms. Pearce what the deployment time frame is; when is this going to occur? Ms. Pearce said they are starting at the end of August, with Thor onsite August 27<sup>th</sup> setting up to become active August 29<sup>th</sup>. She added it's a very interesting process; they actually send a team ahead of time to get things ready before it ever arrives onsite. Mr. Barbour asked if she could send an official email to let Board members know when they could come by to tour it, and she replied, "Absolutely."

Hearing no further discussion, Chairman Estes called the motion, which passed with Mr. Smith and Ms. Sykora abstaining from the vote.

b) Approval of revised Revenue Expenditure Report

Mr. Barbour apologized for having missed the last Board meeting, reminding everyone he had been attending a memorial dedication of a new bridge in Smithfield to his former partner who was killed in the line of duty, noting he had missed the discussion of this topic at that meeting, so he asked Mr. Bone or Mr. Taylor to take up this agenda item.

Mr. Taylor advised this topic was postponed from that meeting to this one due to time constraints at that last Board meeting. He explained this is the new Revenue-Expenditure report form that Board Financial Analyst Marsha Tapler and Board Financial Review Specialist Karen Mason have developed in response to feedback from finance directors, adding it has already been shared with all who attended the recent regional PSAP Managers meetings, where it was well received with good comments and feedback. He then turned the floor over to Ms. Tapler.

Ms. Tapler explained the reason a new spreadsheet was developed was because the old form suffered from many issues making it less-than-intuitive to complete; PSAP managers, city/county directors, finance officers, etc., were experiencing difficulty knowing where in the form to place what information. She said she tried to develop a spreadsheet which could be more easily completed, with fewer headaches for everyone, including the addition of some features in the workbook to enhance the process.

She then displayed sheets online (please see <https://ncit.s3.amazonaws.com/s3fs-public/documents/files/07292016-Agenda%20Book%202.pdf> , pages 100-108), explaining page by page in detail, with examples, how the new form works, including quick-tabs which indicate which information does NOT need to be included as well as which information DOES need to be. She noted the ultimate goal is to make submission and review of the reports easier and quicker for everyone so the entire review process can be completed more quickly than in the past. Among the new features is an ability to reimburse the 911 fund for expenditures deemed ineligible during the fiscal year covered by the report by listing them and accounting for them in the following year's report. Since the report fiscal year is already closed before the report is even submitted, reimbursements have historically required an inordinate amount of work (and cost) to correct. Mr. Barbour interjected he has personally experienced that difficulty and additional cost at Johnston Co 911, and believes this feature is a very valuable step forward—a welcome olive branch extended to the PSAPs.

Mr. Shipp observed that there were many very positive comments received regarding this effort at the regional PSAP Managers meetings. Mr. Bone added he believes this is a win-win situation for both Board staff and PSAP staff, acknowledging tongue-in-cheek that while forms may not be a very exciting thing, this is going to be a very positive thing moving forward, making things much easier for everyone concerned. Mr. Bone also said he wants to commend staff for its efforts in making this happen, and Mr. Barbour readily concurred. Mr. Barbour then stated the committee brings this before the Board for approval, and Chairman Estes asked him to state exactly what the committee approved

which is being brought to the Board in the form of a motion. Mr. Barbour replied the committee is recommending that the Board adopt this new Revenue-Expenditure report form beginning with the FY2016 report, i.e. the fiscal year just ended. Chairman Estes opened the floor to discussion regarding the motion, and hearing none, called the motion, which passed unanimously without abstention.

c) Update on new PSAP Funding Model / Opportunity for 911 Board to provide direction to the PSAP Funding Model Subcommittee

Mr. Barbour asked Mr. Bone, soon to be chair of the Funding Committee, to provide this update. Noting he does not serve on the new PSAP Funding Model subcommittee, Mr. Bone mentioned he just wanted to bring this subject, and his concerns about it, before the full Board for discussion. Observing the Board already has a lot on its plate, he stressed this is a very big deal, adding he thinks it is interrelated with many other issues the Board is contending with. As examples he cited his expectation that the backup PSAP implementation efforts are going to result in a substantial influx of financial reconsideration requests which he fears may drain the 911 Fund, especially with the NextGen Fund already taking 10% of revenue off the top. In light of these observations, he said he feels revising the PSAP funding model is crucial to ensuring sufficient money remains in the 911 Fund to meet all of its obligations and that it needs to be a priority.

Mr. Bone additionally observed the Board will be experiencing a significant change of membership soon, as several current members will be rolling off due to having served their full terms, noting that is a lot of experience the Board will be losing just as it is confronted with the issues he had just outlined. Saying he still considers himself a “new” Board member, he pointed out he knows all too well how expansive the learning curve is for new Board members—he’s still learning every day. Because of this upcoming change in the Board membership, he feels deferring the development of the new PSAP funding model until the new Board is seated would only compound the challenge, so he believes it is crucial to get some direction from the current Board members for the PSAP Funding Model subcommittee NOW. He then asked Mr. Taylor to provide an update on where the efforts of the subcommittee stand at this time.

Mr. Taylor reported the subcommittee has been meeting regularly, with he and David Dodd facilitating, and they have presented, and the committee has reviewed, many different models, but have not come up with one that fits all the way across the board. He acknowledged they know that is going to be a very difficult task. He shared that just before this meeting Mr. Bradford had learned of a formula from another state that may have promise, although they haven’t yet had an opportunity to discuss it or examine it closely.

Mr. Taylor mentioned that he has been putting forward different ideas for a couple of years now, but has not met with any success as far as anybody wanting to move forward with any of them. Mr. Barbour interjected he wanted to make sure everyone understands which formula is being discussed; it is the formula for determining what money goes to the PSAPs, i.e. the “PSAP Funding Model”, not what money is collected in 911 fees, and he reminded everyone that the current PSAP funding model is based

upon a five-year rolling average. Mr. Taylor also reminded everyone that Dr. Kleckley from ECU advised the Board two years ago to change that model, as it was a backward-looking model which was only intended to get us to where we are now, whereas now we need to be looking forward, not backward. Mr. Taylor added we have looked at several models based on population, but you can't use population completely because then small rural counties suffer. He said we have also looked at the amount of 911 call traffic, levels of service provided (e.g. law enforcement, fire, medical, or all three), etc., but have not been able to come up with the right combination yet to make it happen.

Mr. Barbour said he and Mr. Bone had discussed this earlier in the week, and had hoped perhaps Board members could give direction to the PSAP Funding Model subcommittee as bullet points to help it to move forward. Chairman Estes observed it is a bit confusing when we use the term "funding model", reminding everyone that two or three months ago the Board had voted not to increase the 911 fees, but that is NOT the topic being discussed today. He said he just wants to make sure all Board members are clear about that. Mr. Taylor advised that is why it appears on the agenda as "PSAP Funding Model", in an effort to make that distinction.

Vice-Chair Barbour recognized Mr. Bradford, who said he did not want to pre-empt the discussion, but perhaps, as he understands Mr. Bone's question to the Board, we might want to take a lesson from other states. He added he's not suggesting plagiarizing anything, but some states have taken a position where, in statute or in rule, they have established priorities in funding. He said although he's not suggesting we do that, it is one thought. Mr. Bradford recalled that over the past few months the Board has taken steps to try to centralize some kinds of expenses, noting that is a policy change, but observed he thinks the impact of that is yet unknown. He explained the algorithm (to get away from the word "formula") that Mr. Taylor mentioned earlier comes from Connecticut, wherein the rule actually lays out an algebraic formula. He feels it is rather simple—he would prefer something more predictive in nature in terms of mathematics—but that is one thing to consider. While Mr. Taylor and he have not had an opportunity to discuss this, Mr. Bradford said he has also provided Mr. Taylor a sort of a summary of an approach to take in this discussion, but he thinks it is premature to present that to the Board; there is a need to have a discussion at the staff level first to make sure that staff understands what that might entail so that it can then inform the committee on how to move forward. He speculated that Mr. Bone's question is really more directed towards the Board in a policy direction on potential changes or issues that have some relative importance over others.

Mr. Bone responded that what he is asking for is very similar to what Mr. Bradford is saying; that any direction the Board can provide the subcommittee would be very helpful at this juncture on the front end. He said he is assuming this would be on the agenda for the work session in December, but he thinks in the interest of time any input now would be very much appreciated. He added he certainly does not want to have a proposal that may not be consistent with what the Board has in its vision, causing a delay of another six or twelve months. Mr. Bone then offered to Chairman Estes that Tonya Pearce from



Durham is a member of the subcommittee, and if Chairman Estes felt it would be helpful, perhaps she could share her perspective in that capacity. Chairman Estes said he was not opposed to it, but he was not sure what the purpose is. Mr. Bone said he was just hoping to speed up the process and the dialogue between the Board and the subcommittee.

Jeff Shipp recommended that this truly necessitates a work group session between the Board and the subcommittee within the next two months. Mr. Barbour added that's sort of what he and Mr. Bone had talked about. He asserted he thinks we have tasked this committee with an unreachable goal barring the direct input of the Board; unless the Board can give the subcommittee marching orders on what it's supposed to do, it will just be spinning its wheels. Mr. Barbour asked Mr. Taylor's opinion, and Mr. Taylor agreed that is the case; despite the staff's and the subcommittee's efforts to date, we are making no headway.

Chairman Estes asked if the committee has had discussions with PSAPs about how they would envision this working. Mr. Taylor advised several of the subcommittee members are PSAP representatives, so yes, we are getting their input. He added one of the biggest considerations is how any changes will affect large PSAPs, medium sized PSAPs, and small PSAPs, without adversely impacting any one of them, and the subcommittee has representatives from each group. Chairman Estes then observed what he thinks he's hearing is the committee needs some guidance or guiding principles from the Board for the committee to consider when designing the new formula, and asked if he is correct in that understanding.

Mr. Taylor replied he has tried to use what's in the statute already, relating that there are six elements the statute cites should be used for consideration, but of course, the Board could create some others. Mr. Bone offered a motion to schedule a work session, as introduced by Mr. Shipp, within the next two months, and Mr. Shipp seconded. Chairman Estes opened the floor to discussion, and hearing none, called the motion, which passed unanimously without abstention.

Mr. Barbour then asked if it would be appropriate to engage any subject matter experts, if any could be found, to assist in these deliberations, adding he would be willing to offer that in the form of a motion if he needs to. Chairman Estes agreed that would be helpful, and Laura Sykora asked if perhaps Laurie Flaherty, who headed the 911 Assessment last year, or perhaps NASNA members, might be willing/able to help. Mr. Taylor offered as a follow-up that ECU has continued to do work with the National 911 Office, which Ms. Flaherty heads up. He said staff can certainly look into those opportunities, as well as any from UNC or NC State. Mr. Barbour asked if there is a commercial company out there which may have helped other states, and Mr. Taylor reminded him that to engage a commercial company we would have to go through an RFP process, which we don't have time for, whereas we can utilize any state agency, universities included, without having to do that. Chairman Estes offered that in the spirit of keeping the meeting moving forward, as we have approved the motion to have a work session within the next



two months involving a quorum of the Board, incorporating Mr. Barbour's thoughts could be addressed and voted on there and then.

Ms. Sykora offered that she serves on the subcommittee, which is meeting within the next couple of weeks, and she feels it would behoove the subcommittee to put together a summary for the Board of what it has considered and what it feels is right or wrong with what it has come up with, so the Board can understand the subcommittee's reasoning. Chairman Estes agreed, adding it would be beneficial if the subcommittee could pull together some of the thinking that Mr. Bradford has collected from other states in order to benchmark ourselves against how others may approach the same challenge. Greg Hauser asked if Mr. Taylor could have his counterparts from other states call in to the meeting to offer their solutions, and Mr. Taylor replied that they are actually asking us for ours. He said he will be happy to speak to them, however, and if they are willing to participate, they will be invited to.

Mr. Barbour advised Chairman Estes that concluded the Funding Committee report, and Chairman Estes invited Ms. Sykora to address the next agenda item.

#### 8. Standards Committee Report

Reporting that the Standards Committee has done a lot of work recently, Ms. Sykora said Tina Bone gets a gold star for contributing a lot of work to the development of the PSAP Rules Review List being presented to the Board for a vote today, proposing language relative to what questions will be asked and what information needs to be provided to the reviewers. Turning to the list displayed onscreen, Ms. Sykora pointed out that each question includes a reference to the rule the question relates to. She added the committee has spent many extra hours getting to this point, and brings this to the Board for a vote as a recommendation from the committee.

Noting that no second is required for a recommendation from committee, Chairman Estes opened the floor to discussion. Hearing none, he called the motion, which passed unanimously without abstention.

#### 9. Discussion About Dedicated more time for 911 Board Meetings

Mr. Bone said he asked for this to be placed on the agenda today for discussion, observing that during recent Board meetings some agenda items have had to be postponed until future meetings due to time limitations. He offered that he thinks we need to recognize how much work is required of Board members, adding that as many of them travel a good distance to the meeting, we should be maximizing the amount of work that gets done for each trip. Noting that the current meeting time allocation of two hours sometimes runs to two and a half hours, he asked if the Board might not want to increase the allocation for each meeting to three or perhaps three and a half hours, maybe by starting at 9:00 AM instead of 10:00 AM.

Chairman Estes thanked Mr. Bone for his observations, and, as the facilitator of these meetings, acknowledged that a few agenda items have required postponement, always

under the mindset that they were not pressing issues. He added that he thinks the Board has always addressed pressing issues and he is not aware of any slippage in any business decisions that needed to be made. He then opened the floor to comments.

Greg Hauser said he supports adding another hour to the meeting time allocation, observing that should the meeting conclude early, perhaps the remaining allotted time could be used for a training session for members of the Board regarding certain things that are happening in our PSAPs that some of our non-PSAP affiliated Board members may not be familiar with, e.g. explaining common terms or things like that which might help the Board in making decisions.

Mr. Barbour observed he personally does not have a problem starting meetings at 9:00 AM. Chairman Estes said he thinks the agenda as prepared in advance might dictate the need for more time, but he's a little hesitant as the Chair to just say "Let's make it three hours just to make it three hours," and then every meeting all of a sudden has to fill up three hours of people's calendars versus two. He expressed the opinion that we should have the discretion when assembling the agenda to make the agenda match the time; if we need three hours then we just notify people in advance that this is going to be a longer Board meeting because of the topics on the agenda. He added we also have the committee structure, which for this Board is the key aspect for where most of the business and decisions get made, so he would remind the Board that the committee structure is very important for the discussion and detailed dialogue about individual topics, and has worked successfully for the Board to his knowledge.

Mr. Bone said he respects Chairman Estes' thoughts, but in the interest of being consistent in a starting time, working with folks' scheduling, he thinks a consistent start time would be advantageous, even if it was 9:30 AM rather than 9:00 AM. Chairman Estes observed he thinks we've had a consistent start time at 10:00 AM, so this is just an earlier start time. He acknowledged we have run over in the past, that Board meetings have run over past noon as needed, so he thinks we can collect on the back end, or if needed, start earlier. He said he is just trying to be sensitive to Board members who travel same day and minimize the necessity of overnight stays to keep the Board costs to a minimum, which is why he thinks the 10:00 AM time was originally selected, but if the Board feels it wants to start earlier and there is consensus among all Board members to do that then he thinks we could move in that direction.

Mr. Bone then said he had misunderstood Chairman Estes; he thought Chairman Estes was promoting adjusting the start time rather than the end time, and Mr. Bone was just replying to that comment. Chairman Estes reiterated he was, in fact, thinking about adjusting the back end of the meeting and leaving the start time alone. Vice-Chair Barbour asked what all the other Board members think, with no immediate response. Rick Isherwood then said he didn't have a preference either way, although he does think the 10:00 AM start time does better allow for traveling on the same day for some of the more distant Board members, and we have adjusted end times as warranted, but if the Board wanted to start at 9:30 AM he wouldn't be opposed to that

either. Jimmy Stewart observed he is not that far from Raleigh, so he can do it either way. Rick Edwards said he thinks either way is fine.

Mr. Bone offered a motion to adjust the start time to 9:30 AM and Chief Hauser seconded. Chairman Estes opened the floor to discussion, and hearing none, called the motion, which appeared to pass with only yes votes. Chairman Estes asked Vice-Chair Barbour if there were any no votes, as he could not hear the results in the room very well, and Vice-Chair Barbour said there were not. Chairman Estes then asked if everyone had voted, and Ms. Sykora said she had been trying to get off mute on her telephone connection and may not have been heard, but she was fine with the motion. Chairman Estes then pronounced the motion had carried.

#### 10. Backup PSAP Implementation Status

Tina Bone reported that as of June 30<sup>th</sup> at 6:15 PM staff had received all backup plans, timelines, and extension request letters. She displayed a spreadsheet she has created tracking each PSAP's status in the process with milestones and their implementation dates, mentioning staff will be consulting the spreadsheet to keep up with the PSAPs' progress, whether they are having problems meeting milestones, etc., and if so, try to help them out with that. Mr. Isherwood asked how far out some of the timelines go, and she replied July 1<sup>st</sup>, 2017.

Mr. Taylor interjected the big push we have right now is that with approximately 74 approved plans, PSAP directors whose plans have not yet been approved do not want to begin spending money on the plan until it is approved, so the staff focus over the next week to two weeks will be to review the remaining plans in an all-out effort to approve them, so everyone can begin taking steps toward implementation.

Mr. Bone asked if this report will be on the Board agenda each month going forward, and Mr. Taylor confirmed it would, saying that until July 1, 2017, staff will be watching it each and every month, with milestones providing triggers for follow-up by staff to ensure they are being met. Chairman Estes asked if a color code on the spreadsheet, perhaps green-yellow-red (e.g. traffic light colors), could be added to the report as it is submitted each month to aid in rapidly determining who might be most in need of assistance, and Ms. Bone readily assented to that.

Chief Hauser said he wanted to mention to those PSAP directors who may be attending this meeting that if, as they test their plans, they discover something doesn't work as intended and they have to make a revision, make sure that revision gets submitted to staff so the plan can be updated, observing that actually has already happened in Charlotte, and they had to submit a revision.

Chairman Estes thanked Ms. Bone and the staff, acknowledging that was a huge undertaking and is greatly appreciated. He also encouraged Mr. Taylor to be sure he works with the Legislative Liaison in DIT to provide status updates to the General Assembly, given that this was a priority for them. Mr. Taylor assured him he will work with her very closely on that.

## 11. NG911 Committee Report

Committee Chair Jeff Shipp said the NG911 Committee has been busy with work between committee members, staff, and our technical consultants. He said the last meeting was on July 14<sup>th</sup>, where they did approve out of committee the release to the Board of the NMAC RFP, recalling the NMAC RFP addresses the Network Management Assistance Center, which is technically our NOC help desk. He asked, because of the sensitive nature of this, that the Board go into closed session in accordance with NCGS § 143-318.11(a)(1) for the purpose of receiving information that is not yet public pursuant to NCGS §143b-1350. Chairman Estes then asked Mr. Taylor to facilitate moving into the closed session for this one topic. Vice-Chair Barbour advised Mr. Bradford indicated the Board must vote to go into closed session, and Vice-Chair Barbour offered a second to the recommendation coming out of committee. Chairman Estes called the motion, which passed unanimously at 11:35am.

Public attendees in the room were asked to leave until the closed session was concluded, and Mr. Taylor advised people attending via WebEx who are not Board members that they will not receive audio feed and the WebEx screen will default to a blank white board until the meeting returns to open session. He advised Board members attending remotely that they should have received an emailed Skype invitation to the closed session within the last hour, and asked Rob Smith and Laura Sykora to hang up on the phone bridge since they had indicated they would be recusing themselves from the vote. He asked all the other Board members attending remotely to please go to the Skype session to view the closed session documentation on the Skype screen.

### a) Closed Session

Vice-Chair Barbour advised Chairman Estes that all non-Board members had left the room and called the closed session to order at 11:38am. Mr. Taylor advised he had heard the two phone bridge exit beeps for Mr. Smith and Ms. Sykora, and he was seeing Rick Edwards, Slayton Stewart, and Darryl Bottoms on the Skype feed. Eric Cramer and Chairman Estes both advised they were still in the process of connecting, so Mr. Taylor asked Mr. Shipp to proceed. Mr. Shipp advised he was going turn the floor over to Dave Corn and Jim Lockard (from Federal Engineering) to review the details of the RFP, but before doing so told everyone that there are truly no surprises in this; it's all part of the working document from the original concept of where we're going from here.

Mr. Corn advised this is the second RFP in a series of three. He observed the NMAC is consistent with and flows from the Concept of Operations and the NMAC Conceptual Design, both documents the Board has seen, has read, and which are now public. He added Mr. Bradford has been a tremendous help in moving from the Conceptual Design to the RFP, offering language that is both legally defensible and succinct so that the bidders understand our technical specifications and objectives so they may provide a more appropriate response to meet our needs.



Mr. Corn reported the NMAC will perform three broad functions:

- 1) It will act as a NOC
- 2) It will act as a Security Operation Center
- 3) It will assist small/rural PSAPs in resolving problems with vendors

He concluded his comments by saying that is what the NG911 Committee is asking the Board to approve at a very high level. Noting Mr. Lockard from Federal Engineering was present to answer questions from the Board, he opened the floor to questions.

Vice-Chair Barbour asked what the projected cost would be, and Mr. Corn replied it was expected to be ~\$1.2M/year. Jimmy Stewart asked if it would be a centralized facility, and Mr. Corn replied it probably would, and we are not requesting that it necessarily be located in North Carolina. Greg Hauser said he simply wanted to point out that he thinks the security piece is a "big deal"; that already in discussions with the City of Charlotte it has expressed concerns about any other network touching its internal public safety network. He observed it is going to be a struggle for some of the larger municipalities, as they are not willing to just plug into this network with open arms; we're going to have to prove it's secure.

Mr. Lockard responded that managing security across the board is very important, not just in how you plug in, but in how you manage it going forward and keep it up to date. He observed a lot of vendors are also struggling with this on their own, so we're looking at comprising a network of individual PSAPs, multiple vendors, and multiple systems, creating a new, what NENA has started to refer to as an ecosystem, which constitutes a living, breathing network, if you will, that is always susceptible to change and susceptible to things which could happen either internal to or external to the network. He pointed out the NMAC, from a security perspective, is overseeing all of that, so if a new software bug comes in, they'll know about it, how to address it, both at the PSAP level and beyond, and will potentially be able to isolate it before it impacts across the network. He explained that the ESINet can be comprised of a lot of pieces, and for the most part, networks are managed edge to edge, meaning monitoring usually ends when traffic leaves the edge of the network; problems that are identified external to a particular provider tend to become cloudy on how they are addressed, and one of the things the NMAC is looking to do is minimize that, buffering from end to end rather than edge to edge.

Mr. Stewart asked if there is a requirement that the NMAC be located in the United States, and Mr. Bradford replied yes, noting that is addressed outside of the RFP. He explained there are certain technical and security standards that come into play, and that's one of them, regardless of whether it's specified in the RFP.

Chairman Estes observed the meeting would have to return to open session before the Board could vote on the RFP, and asked if there were any further questions. Hearing



none, he entertained a motion from Sheriff Hagaman to come out of closed session, seconded by Mr. Bone, and the motion carried unanimously at 11:48am.

b) Return to Open Session

Mr. Taylor asked media technician Ronnie Cashwell to resume WebEx connectivity, which he did and which Vice-Chair Barbour tested successfully and the Board returned to open session at 11:49 am. Mr. Shipp then offered that the NextGen 911 Committee makes a motion for approval and release of the NMAC RFP. Observing that a recommendation out of committee does not require a second, Chairman Estes opened the floor to any further discussion. Hearing none, he called the motion, which passed with Rob Smith and Laura Sykora in abstention. He then asked if Mr. Shipp had anything further to report from the committee, and Mr. Shipp said he did not, although he did want to make a final comment as it relates to this committee and potentially the Funding Committee and the upcoming work session. He said he wanted to remind everyone to keep in mind that if we want to propose any statutory changes, we need to have language ready that we as a Board may want to recommend to that purpose. Chairman Estes asked if Mr. Shipp was referring to the Board's December work session. Mr. Taylor replied he has already been approached by DIT's Legislative Liaison about this topic in terms of whether she needed to begin working on anything in preparing for the next legislative session, and he did offer a very high level heads up on what the Board is doing.

12. Other Items

Chairman Estes asked if there were any other items Board members wished to bring before the Board, and none were forthcoming.

13. Adjourn

Chairman Estes entertained a motion to adjourn, Vice-Chair Barbour so moved, Sheriff Hagaman seconded, and the meeting was adjourned at 11:51 AM.

# PSAP Liaison Report-August 2016

(7/23/2016 to 8/19/2016)

## Activity Summary for August 2016

7/28/2016: I participated in the Northeast Regional PSAP Managers meeting, held in Williamston, NC. Here is a picture of the attendance at this meeting, held at the NC Telecenter.



7/29/2016: I participated in the July 911 Board meeting, also held in Williamston, at the NC Telecenter. At this meeting the Board recognized Martin County Telecommunicator LaShonda Cartwright for her handling of a text to 911 call where the caller was threatening suicide. Ms. Cartwright made voice contact with the caller and talked to him until help arrived on the scene. Below is a picture of Ms. Cartwright receiving her award from Executive Director Richard Taylor, and

911 Board Vice-Chair Jason Barbour. Also pictured is Martin County 911 Director Jason Steward.



8/01/2016: I was on vacation the week of August 1<sup>st</sup> through 5<sup>th</sup>.

8/09/2016: I helped facilitate a 911 Education Committee meeting. The main topics covered in this meeting were the need for a position/support paper for the national effort to get telecommunicators reclassified from Administrative/Support to Protected Services occupations. The Committee also discussed how to move forward with a statewide mandated certification for telecommunicators, and explored the possibility of establishing a means to outsource QA scoring to a third party provider.

8/10/2016: I met with Kerrie Cave from the NCSU Office of Professional Development. Kerrie's office is helping with the registration and planning process for the Statewide PSAP Managers Meeting, coming

up in October. We discussed the registration link and what information will be needed. We are planning to open registration the last part of August. Another meeting will be scheduled during the last part of September to finalize food, beverage, and other logistics.

8/11/2016: I participated in a Grant Committee. The Committee reviewed and scored 19 grant applications, with a total monetary ask of ~\$37 million.

8/13/2016: I represented 911 Board staff at the 2016 APCO International Conference in Orlando, Florida, from 8/13/ to 8/17. I attended various education sessions, and previewed new products and services in the vendor hall.

**Dave Corn**  
**Monthly Report**  
**August 2016**

**Next Generation 911 Committee**

Eleven responses to the Emergency Service IP Network (ESInet) and Hosted Call Processing Platform (CPE) RFP were received. The evaluation team consisting of the State employee subject matter experts (SMEs) have begun the initial evaluation process.

The second NG9-1-1 RFP for a Network Management Assistance Center (NMAC) to monitor and oversee the entire NG9-1-1 ecosystem was approved by the 911 Board in the last Board meeting has been posted for vendors to respond to.

Worked with Jim Lockard and Joe Sewash on the draft of the conceptual design for a GIS solution. Worked with Pat Savage/Federal Engineering for a CAD Interoperability conceptual design and plan. Worked with Cliff Brown/Federal Engineering on radio Interoperability. Our current solution for radio interoperability is to continue working with the Statewide Interoperability Coordinator.

**Funding Committee**

Managing implementation of the new statewide translation services deployment with Marsha Tapler. There are approximately 75 PSAPs registered to use or are using Voiance. We are particularly focusing on PSAPs who have not used a translation capability in order to increase and bring all PSAPs up to the same standard so that 911 callers experience the same good level of service across the state.

Working on an RFP for a Standalone CPE statewide pricing and NG9-1-1 compliance for PSAPs

**PSAPs**

Working with PSAPs on a variety of issues related to billing, ECaTS, networking, and backup plans.





HERTFORD COUNTY E911 COMMUNICATIONS DEPARTMENT

P.O. BOX 116 WINTON NC 27986

252.358.7861

DAVID BROWN, DIRECTOR

Monthly Report to NC 911 Board

For August 18, 2016

HERTFORD COUNTY 911 PSAP CONSOLIDATION GRANT

The Hertford County 911 Governance Board continues to meet monthly on the 1<sup>st</sup> Wednesday. Grant was accepted 7-15-13. Consultants and Engineers were accepted 10-7-13. Construction bid was accepted and awarded to Cadet Construction for \$2,636,300 on 1-20-2015.

**Ongoing Business:**

Construction is winding down. Contractor and county agreed to a substantial completion date of June 3. There are still a number of construction issues that need resolution. Contractor is replacing columns on 3 porches, fitting overhangs with covering/paint, there are open electrical boxes (empty) in the building. Contractor has not constructed the protective wall around the generator and a couple of other minor issues. We were trying to cutover in early June but due to the C.O. not be available and substantial completion not being reached we had to postpone. With vendors having other projects scheduled we were unable to get everyone together for cutover again until 7-12-16. We requested an extension from the NC 911 Board until August 31, 2016 to get all invoices cleared and paid. That request was granted. We experienced a 2 week delay in getting our furniture delivered however that has now been delivered and installed. All training has been completed. We are diligently working to get all invoices billed and paid.

**New Business:**

The 911 center officially cutover for business on July 12 despite the construction issues and we have been operating since that date. Cutover went very well with only minor problems encountered. We are currently fully staffed.

**Upcoming Business:**

To complete payment of all invoices by August 31, 2016

**Contracts and Purchase orders:** The construction contract was approved by the Hertford County Commissioners for Cadet Construction in the amount of \$2,636,300.

The monthly expense report is attached.

Our next meeting is 4-6-16 at 10:00 a.m.

Respectfully Submitted,

*David Brown*

David Brown

Hertford County E911 Communications Director



**Dare –Tyrrell and Hyde Counties  
Regional Emergency Communications Center (RECC)  
Monthly Progress Report**

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**July, 2016**

<b>Activity</b>	<b>This Period</b>	<b>Next Period</b>
<b>1. Design</b>	<ul style="list-style-type: none"><li>• Design Shop Drawings and updates completed</li><li>• Slight design modifications addressed as needed</li></ul>	<ul style="list-style-type: none"><li>• Design modifications modified and completed as needed</li></ul>
<b>2. Permits</b>	<ul style="list-style-type: none"><li>• All Building permits approved</li></ul>	<ul style="list-style-type: none"><li>• No additional action planned</li></ul>
<b>3. Construction</b>	<ul style="list-style-type: none"><li>• Exterior walls being constructed</li><li>• Bi-weekly construction calls conducted between design team and Whiting-Turner</li></ul>	<ul style="list-style-type: none"><li>• Construction continues during this period</li><li>• Interior walls and infrastructure will begin</li></ul>
<b>4. Communications Systems</b>	<ul style="list-style-type: none"><li>• Ham Radio system design continued with alternate solutions for radio interfaces researched</li><li>• Alterations to communications shelter utilities were approved</li></ul>	<ul style="list-style-type: none"><li>• Coordination with Whiting/Turner to schedule microwave tower delivery and installation. Anticipated Q-3, 2016</li></ul>
<b>5. Other Activity</b>	<ul style="list-style-type: none"><li>• All technology equipment has been awarded with the exception of AV which will be advertised in Q 3</li><li>• MCP conducted bi-weekly project status conference calls with the client</li></ul>	<ul style="list-style-type: none"><li>• MCP will continue bi-weekly conference calls with the Clients</li><li>• MCP will schedule and coordinate tri-county transition plan to include Tyrrell and Hyde Counties to Dare County</li><li>• MCP will assist in coordinating transition planning for the new facility</li></ul>



**Haywood County, North Carolina**  
**PSAP Consolidation Renovation Project**  
**Monthly Progress Report**

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July 2016 Report

Activity	This Period	Next Period
1. Design	<ul style="list-style-type: none"><li>No change</li></ul>	<ul style="list-style-type: none"><li>No change</li></ul>
2. Permits	<ul style="list-style-type: none"><li>None</li></ul>	<ul style="list-style-type: none"><li>None</li></ul>
3. Construction	<ul style="list-style-type: none"><li>Renovation and Construction complete</li><li>Painting complete and carpet installed</li><li>Raised floor installation completed</li><li>Certificate of Occupancy received</li></ul>	<ul style="list-style-type: none"><li>All building systems tested</li><li>Prepare for Cut Over/Go Live</li></ul>
4. Communications Systems	<ul style="list-style-type: none"><li>Train and test radio consoles</li><li>Train and test CPE</li><li>Train and accept workstations</li><li>System test and final walk through</li><li>Review transition plan</li><li>Plan for Cut Over/Go live</li></ul>	<ul style="list-style-type: none"><li>Prepare for go live in August</li></ul>
5. Other Activity	<ul style="list-style-type: none"><li>Conduct project status meeting</li><li>Monitor Grant Budget and submit required reports</li><li>Approve contractor invoices</li><li>Provide systems go live support</li><li>Final check list for go live</li></ul>	<ul style="list-style-type: none"><li>Prepare for go live in August</li><li>Monitor Grant Budget and submit required reports</li><li>Approve contractor invoices</li><li>Go live schedule is as follows:<ul style="list-style-type: none"><li><b>CPE Techs (Intrado)</b><ul style="list-style-type: none"><li>08/22 – Techs arrive on-site; IP changes for NodeA and NodeB; Work on Network Routers between Nodes-(Remote)</li></ul></li><li><b>Training – User/Admin</b><ul style="list-style-type: none"><li>08/25 thru 08/29</li></ul></li><li><b>A911 Remote Techs</b><ul style="list-style-type: none"><li>8/23 – TNT and Equipment install</li><li>8/25 - Failover &amp; provisioning testing</li><li><b>8/30 – Primary site cutover</b></li><li>8/31 – Secondary – Router Upgrade, TNT, Go Live</li></ul></li></ul></li></ul>



# Graham County E911 Enhancement/Replacement Monthly Progress Report

July, 2016

Activity	This Period	Next Period
<b>1. Design</b>	<ul style="list-style-type: none"><li>Architect continues development of Construction documents</li><li>Potable Water source was verified</li><li>Floorplan design completed</li><li>Preliminary technical and dispatch design continues</li><li>Created RFP for Construction Manager at Risk</li></ul>	<ul style="list-style-type: none"><li>Architect continues development of Construction documents</li><li>Construction cost projections will be completed</li><li>Construction Manager at Risk will be selected</li></ul>
<b>2. Permits</b>	<ul style="list-style-type: none"><li>Graham County permitting is completed for pre-construction activities</li></ul>	<ul style="list-style-type: none"><li>Construction permitting completed</li></ul>
<b>3. Construction</b>	<ul style="list-style-type: none"><li>Construction documents were drafted and are under review</li><li>Final site drawings completed</li></ul>	<ul style="list-style-type: none"><li>Construction documents scheduled for completion</li><li>Construction company will be selected</li><li>MCP will coordinate with architect and construction company to complete the preliminary construction schedule</li></ul>
<b>4. Communications Systems</b>	<ul style="list-style-type: none"><li>Radio system review and transition planning continues</li><li>CPE, CAD, recording system specifications being developed</li></ul>	<ul style="list-style-type: none"><li>MCP continues coordination of communications plan development</li><li>MCP will complete technology component specifications</li></ul>
<b>5. Other Activity</b>	<ul style="list-style-type: none"><li>MCP conducted conference project status conference calls with the County</li></ul>	<ul style="list-style-type: none"><li>MCP will continue bi-weekly conference call schedule with the County</li></ul>





## Hyde County

### Dare-Tyrrell-Hyde Regional Emergency Communications Center (DTH-RECC) – Hyde County Radio Communications & Simulcast Paging System

#### Monthly Progress Report

July, 2016

Activity	This Period	Next Period
<b>1. Design</b>	<ul style="list-style-type: none"><li>Construction has started on the towers identified in the project</li></ul>	<ul style="list-style-type: none"><li>Construction will continue on the towers identified in the project</li></ul>
<b>2. Permits</b>	<ul style="list-style-type: none"><li>Permitting process has been completed</li></ul>	<ul style="list-style-type: none"><li>No additional permitting work anticipated at this time</li></ul>
<b>3. Construction</b>	<ul style="list-style-type: none"><li>Construction documents were updated and will continue to be modified</li></ul>	<ul style="list-style-type: none"><li>Complete construction documents and proceed with project</li></ul>
<b>4. Communications Systems</b>	<ul style="list-style-type: none"><li>Hyde County continued the procurement process and contractual engagements with the vendor(s)</li></ul>	<ul style="list-style-type: none"><li>Communications system relating to the project will be constructed</li></ul>
<b>5. Other Activity</b>	<ul style="list-style-type: none"><li>MCP continued project status conference calls with the County</li></ul>	<ul style="list-style-type: none"><li>MCP will continue periodic conference calls with the Client and vendor</li></ul>



# Richmond County

## PSAP Consolidation and Construction

### Monthly Progress Report

July 2016

Activity	This Period	Next Period
<b>1. Design</b>	<ul style="list-style-type: none"><li>• Determined tower height requirements for new facility, which may affect standoffs</li><li>• Reviewed initial cost estimates</li><li>• Reviewed interior layouts after cost estimates</li><li>• Made changes to building interior</li><li>• Agreed to move forward with design as estimated</li></ul>	<ul style="list-style-type: none"><li>• Identify grounding needs and requirements</li><li>• Determine power requirements for workstation furniture and rack equipment</li><li>• Continue to refine cost estimates</li><li>• Finalize interior layout</li><li>• Begin preparing construction documents – ongoing for 4 months</li></ul>
<b>2. Permits</b>	<ul style="list-style-type: none"><li>• No activity this reporting period</li></ul>	<ul style="list-style-type: none"><li>• No activity anticipated for next reporting period</li></ul>
<b>3. Construction</b>	<ul style="list-style-type: none"><li>• Conducted geotechnical survey of property; report expected early August</li><li>• In progress – convey property from the City of Rockingham to Richmond County</li><li>• Reviewed initial pre-qualification documents for vendors</li></ul>	<ul style="list-style-type: none"><li>• Review geotechnical survey report and provide any corrections</li><li>• Begin work on construction drawings</li><li>• Review final pre-qualification documents for vendors</li><li>• Began process for County to adopt ordinance for pre-qualification of vendors</li></ul>
<b>4. Communications Systems</b>	<ul style="list-style-type: none"><li>• Provided information for FAA aeronautical study concerning new tower</li><li>• Completed propagation studies on current and new tower sites to determine height of new tower</li></ul>	<ul style="list-style-type: none"><li>• Anticipate receiving information from FAA regarding aeronautical study</li></ul>
<b>5. Other Activity</b>	<ul style="list-style-type: none"><li>• Held meeting with Architect and MCP regarding cost estimates</li><li>• Conducted several calls between County and MCP regarding project needs and status updates</li><li>• Discussed possibility of moving forward with law enforcement work group to begin to address standard operating procedure (SOP) differences</li></ul>	<ul style="list-style-type: none"><li>• Regular communications with project team, as needed</li><li>• Schedule meeting for September or October to convene law enforcement work group</li><li>• Review current SOPs – ongoing through October</li><li>• Provide project update to County Council</li></ul>

Psap ID	PSAP	7/1	7/2	7/3	7/4	7/5	7/6	7/7	7/8	7/9	7/10	7/11	7/12	7/13	7/14	7/15	7/16	7/17	7/18	7/19	7/20	7/21	7/22	7/23	7/24	7/25	7/26	7/27	7/28	7/29	7/30	7/31		
89	Ahoskie Police Department	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
2	Alamance County Central Communications	YES	LOW	LOW	NO	NO	YES	LOW	LOW	YES	YES	YES	LOW	LOW	NO	LOW	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
3	Alexander County E9-1-1 Communications	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	LOW	YES	YES	YES	
4	Alleghany County E911	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	LOW	
5	Anson County Emergency Communications	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
6	Ashe County Communications Center	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
7	Avery County Communications Center	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	
8	Beaufort County Communications Center	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	LOW	YES	YES	YES	YES	LOW	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	LOW	LOW
66	Beech Mountain Police Department	NO	YES	YES	YES	YES	YES	NO	YES	YES	YES	YES	NO	NO	YES	YES	YES	YES	YES	YES	YES	NO	YES	YES	NO	YES	NO	YES	YES	YES	YES	YES	NO	
9	Bertie County Communications	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	
10	Bladen County Central Communications	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	LOW	YES	YES	LOW	YES	YES	YES	YES	YES	
67	Boone Police Department 911	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
11	Brunswick County Central Communications	YES	YES	YES	YES	YES	YES	LOW	YES	YES	LOW	YES	YES	YES	LOW	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
12	Buncombe County Emergency Communications	YES	YES	LOW	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	LOW	YES	LOW	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	LOW	
13	Burke County ECC (BCECC)	YES	YES	YES	YES	YES	YES	LOW	YES	YES	LOW	YES	YES	YES	YES	YES	YES	LOW	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
193	Burlington PD	YES	LOW	LOW	NO	NO	YES	LOW	LOW	YES	YES	LOW	LOW	NO	NO	NO	NO	NO	NO	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
21	Butner Public Safety Communications (NRC)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	
17	Cabarrus County Sheriff's Office Communications	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
18	Caldwell County Sheriff's Office/E-911 Comm Center	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	LOW	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	LOW	
19	Carteret Emergency Communications Center	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
60	Cary Police Department	YES	LOW	LOW	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	
20	Caswell County 911 Communications	YES	YES	YES	YES	YES	LOW	YES	YES	LOW	YES	YES	YES	YES	YES	YES	LOW	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
22	Catawba Co Communications Center	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	LOW	LOW	YES	LOW	YES	LOW	YES	YES	LOW	YES	YES	YES	YES	YES	LOW	
125	Charlotte-Mecklenburg Police Communications	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	LOW	
23	Chatham County Emergency Operations	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	LOW	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
25	Cherokee County 911 Communications	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	LOW	YES	LOW	YES	YES	
26	Chowan Central Communications	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	
79	City of Durham Emergency Communications	YES	YES	LOW	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	LOW	
112	City of Jacksonville	YES	YES	YES	YES	LOW	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	
27	Clay County E911	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	LOW	
28	Cleveland County Communications	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	LOW	YES	LOW	YES	YES	YES	YES	LOW	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	
31	Columbus Central Communications	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	LOW	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
126	Cornelius Police Communications	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	LOW	YES	YES	YES	
34	Craven County Emergency Communications	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	LOW	LOW	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	
36	Cumberland County 9-1-1	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES															

65	Harnett County Communications Center	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	LOW	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES
35	Havelock Police Department	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES
74	Haywood County 911	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	LOW	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
58	Henderson - Vance 911 Center	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
75	Henderson County Sheriff Communications	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	LOW	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	LOW
194	Hendersonville Police	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
82	Hertford County Emergency Services	YES	YES	LOW	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
47	High Point Communications	YES	YES	LOW	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES
91	Hoke County Emergency Communications	YES	YES	LOW	YES	YES	LOW	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	LOW	YES	YES	YES	LOW	YES	YES	YES
61	Holly Springs Police	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	LOW	LOW
92	Hyde County Emergency Management	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	LOW	YES	YES	YES
93	Iredell County Emergency Communications	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	LOW	YES	LOW	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	LOW	YES	LOW	YES	YES	YES	YES	YES
94	Jackson County Emergency Management	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES
95	Johnston County 911 Communications	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
98	Jones County Sheriff's Office (NRC)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
29	Kings Mountain Communications	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	LOW	YES	LOW	LOW
128	Laurinburg Police Department (NRC)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
104	Lenoir County Central Communications	LOW	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	LOW
108	Lincoln County Communications Center	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES
32	Lumberton Communications Center	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
114	Macon County Communications	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
118	Madison County Emergency Communications	YES	YES	YES	YES	LOW	YES	YES	LOW	YES	YES	LOW	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
123	Martin County Communications Center	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES
124	McDowell County 911 Center	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
122	Mitchell County Central Communications	YES	YES	YES	LOW	YES	LOW	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
121	Montgomery County 911 Communications	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	LOW	YES	YES	YES	YES
120	Moore County Emergency Services	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	LOW	LOW	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES
14	Morganton Public Safety (Consolidated with Burke)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
90	Murfreesboro Police Dept (NRC)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
119	Nash County Central Communications	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES
33	New Bern Emergency Communications	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	LOW	YES	YES	LOW	YES	LOW	YES	YES	YES	LOW	YES	YES	YES
116	New Hanover County Public Safety Comm Center	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES
115	Northampton County Communications	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	LOW	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES
113	Onslow County 911	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
111	Orange County Emergency Communications	YES	YES	YES	LOW	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	LOW	LOW	YES	YES	YES	YES	YES
109	Pamlico County Emergency Management	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
107	Pasquotank/Camden E9-1-1	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES
106	Pender County 911	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	LOW	YES	YES	YES
105	Perquimans County Communications	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	LOW	YES	YES	LOW	YES	YES	YES	LOW	YES	YES
103	Person County Emergency Communications	LOW	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
127	Pineville Police Department	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES
102	Pitt County Communications	YES	LOW	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	LOW	YES	YES	YES	YES	YES	YES
100	Polk County Communications	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	LOW	YES	YES	YES
59	Raleigh-Wake County Emergency Comm Center	YES	LOW	LOW	LOW	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES
99	Randolph County 911	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	LOW	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	LOW	YES	YES
41	Reidsville Police Dept. Communications (NRC)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO
97	Richmond County Emergency Center	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW
96	Robeson E-911 Communications Center	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	LOW	LOW	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	LOW	YES	YES	YES
43	Rockingham County 911 Communications	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	LOW	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
117	Rocky Mount Central Communications	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	LOW	YES	YES	LOW	LOW	YES	YES	YES	YES	YES	YES	YES	YES
44	Rowan County Telecommunications	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	LOW	YES	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
45	Rutherford County Communications	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	LOW	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
46	Sampson County 911 Communications	YES	YES	YES	YES	YES	YES	YES	YES	LOW	LOW	YES	YES	YES	YES	YES	YES	YES	LOW	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
101	Sanford Police Dept Communications Center	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	LOW	YES	YES	YES	YES	LOW	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
48	Scotland County Emergency Communications	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	LOW	YES	YES	YES	YES	YES	YES

30	Shelby Police Communications	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	LOW	YES	YES	LOW	YES	YES	LOW	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
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Legend	
YES	Normal to High 911 Call Volume
LOW	Low 911 Call Volume
NO	No 911 calls received



July 27, 2016

Richard Taylor  
Executive Director  
North Carolina 911 Board

This report summarizes project status for the Coastal Orthoimagery 2016 Project funded by the NC 911 Board. The report summarizes project status for the period from May 1- June 30, 2016.

### **Accomplishments**

The accomplishments by the project team during the period include the following items organized by team member:

#### CGIA

- CGIA discussed weekly project management activities with Project Team meetings.
- Updated the final acquisition dates on the project website
- Approved final Attachment C-1 Survey report for a total of four out of four or 100%.
- Received and approved four Attachment E AT reports for a total of six of six or 100%.
- Outreach included attending and/or presenting on the project at the following venues:
  - May 11 meeting of the Geographic Information Coordinating Council
- Held workshops with the project team and evaluated and approved contractor raw exploitation deliverables representing approximately 2% of the study area
- Attended a Marine Corps requirements workshop on May 2 at Camp Lejeune
- Updated the project website and web mapping content, including the final acquisition dates, for effective communication.
- Initiated and completed VOICE beta testing. Final deployment will occur in July.
- Initiated development of material for VOICE training to begin in July.
- Attended a meeting with Richard Taylor to outline and determine requirements for PSAP coverage directly applicable to initiating outreach and submitting data needs requirements with South Carolina and Virginia
- Refined status and invoice templates to facilitate more streamlined and consistent reporting.
- Received approval to pre-release imagery in Columbus and Brunswick to facilitate re-establishment of the NC/SC border
- Continued migration strategy testing for server consolidation and backup recovery.

#### NC Department of Transportation (NCDOT)

- Attended team strategy meetings.
- Reviewed and approved Attachment E AT reports.
- Held workshops to evaluate imagery color samples.
- Initiated detailed assessment and reporting of contractor deliverables
- Completed VOICE beta testing

#### NC Department of Public Safety: NC Geodetic Survey (NCGS)

- Attended team strategy meetings.
- Reviewed and approved Attachment C-1 survey reports
- Continued CORS maintenance
- Performed maintenance on field survey and GPS equipment
- Attended workshops to evaluate imagery color samples
- Initiated and completed development of new control survey points to facilitate horizontal QC in the Fall

#### Acquisition Vendors

This section summarizes the accomplishments of the four prime acquisition vendors selected through the Qualifications-Based Selection (QBS) process. The selected vendors are Sanborn Map Company, Atlas Geographic Data, Surdex Corporation, and Spatial Data Consultants. The fully executed contracts were awarded on December 16, 2015. Each of the contracts consists of seven primary tasks as follows:

Task 1 – Flight Planning

Task 2 – Imagery Acquisition

Task 3 - Aerotriangulation and Ortho Generation

Task 4 - Product Delivery and Data Acceptance

Task 5 – Quality Review and Resolutions Reporting

Task 6 – Image Service Hosting (VOICE Application QC Interface)

Task 7 – Closeout

#### Atlas Geographic Data

- Task 2 - Imagery Acquisition
  - Approved for all raw imagery deliverables
  - Task is 95% complete
- Task 3 - Aerotriangulation and Ortho Generation
  - Completed 100% of initial editing of Digital Elevation Model (DEM) and seamlines
  - Task is 82% complete
- Task 4 - Product Delivery and Data Acceptance
  - Initiated Level 1 QA/QC editing for entire study area
  - Task is 15% complete

#### Spatial Data Consultants

- Task 1 - Flight Planning
  - 100% complete excluding formal approval of survey report
  - Submitted and approved for revised Attachment C-1 survey report
- Task 2 - Imagery Acquisition
  - Submitted and approved for all raw imagery deliverables
  - Task is 100% complete
- Task 3 - Aerotriangulation and Ortho Generation
  - Approved for all Attachment E Aerotriangulation reports
  - Completed 100% of initial editing of Digital Elevation Model (DEM) and seamlines
  - Task is 89% complete
- Task 4 - Product Delivery and Data Acceptance
  - Initiated Level 1 QA/QC editing for entire study area
  - Shipped all tie data (i.e., imagery across study area boundary) to adjacent contractors
  - Task is 40% complete

#### Sanborn Map Company

- Task 2 – Imagery Acquisition
  - Submitted and approved for all raw imagery deliverables
  - Task is 100% complete
- Task 3 - Aerotriangulation and Ortho Generation
  - Submitted and approved for all Attachment E Aerotriangulation reports
  - Initiated Digital Elevation Model (DEM) and seamlines production and sub task is 55% complete
  - Task is 59% complete
- Task 4 - Product Delivery and Data Acceptance
  - Initiated Level 1 QA/QC editing for entire study area
  - Level 1 QC complete for 19% of study area
  - Attended a Marine Corps requirements workshop on May 2 at Camp Lejeune
  - Task is 19% complete

#### Surdex Corporation

- Task 2 - Imagery Acquisition
  - Submitted stereo overlap images for review
  - Submitted initial set of exploitation sample images
  - Task is 100% complete
- Task 3 - Aerotriangulation and Ortho Generation
  - Completed 100% of initial editing of Digital Elevation Model (DEM) and seamlines
  - Task is 98% complete
- Task 4 - Product Delivery and Data Acceptance
  - Initiated Level 1 QA/QC editing for entire study area
  - Level 1 QC complete for 90% of study area
  - Task is 75% complete

VOICE Application Contractor:

This section summarizes the accomplishments of Quantum Spatial, the sole-source contractor developing the VOICE QC Application. The fully executed contract was awarded on December 15, 2015. That agreement consists of seven primary tasks as follows:

Task 1: Requirement Workshop  
Task 2: System Design Document  
Task 3: Development  
Task 4: Beta Release Testing  
Task 5: Production Release  
Task 6: Hosting and Project Close

- Task 2: System Design Document
  - Approved for design requirements
- Task 3: System and Customizations Requirements
  - 100% complete
  - Completed development and production and released for beta testing
- Task 4: Beta Release Testing
  - Beta test plan released and is near complete for production release schedule for mid-July

## Schedule

The following represents the project's core deliverables milestones for plan and actual status. Details of the plan will accumulate as acquisition contractors are engaged and more definitive technical milestones are developed.

Task	Item	Planned Start	Planned Finish	Actual Finish/Percent Complete
<b>1</b>	<b>Project Initiation</b>	<b>7/1/2015</b>	<b>2/1/2016</b>	
	Issue RFQ for Orthoimagery QBS	8/31/2015	8/31/2015	8/31/2015
	Closing date for RFQ responses	9/22/2015	9/22/2015	9/22/2015
	Contract NCGS	8/1/2015	8/1/2015	8/11/2015
	Contract NCDOT	8/1/2015	8/1/2015	7/21/2015
	Host workshop for selected applicants	11/2/2015	11/2/2015	11/2/2015
	Technical and cost proposals due	11/13/2015	11/13/2015	11/13/2015
	Negotiate with selected applicants	11/23/2015	11/23/2015	11/23/2015
	Conduct Kickoff Meeting	12/17/2015	12/17/2015	12/17/2015
	Contract QC Service Provider	2/1/2016	2/1/2015	12/15/2015
<b>2</b>	<b>Planning and Design</b>	<b>10/15/2015</b>	<b>4/30/2016</b>	
	CORS Upgrades	10/15/2015	3/1/2016	100%
	Validation Range	10/15/2015	1/15/2016	12/3/2015
	RTN Maintenance	10/15/2015	Ongoing	Ongoing
	Attachment C Flight Plan Report	12/17/2015	1/15/2016	2/1/2016
	Control Surveys and Attachment C-1: Control Surveys Report	4/3/2016	4/3/2016	99%
<b>3A</b>	<b>Acquisition</b>	<b>2/1/2016</b>	<b>5/1/2016</b>	
	Acquire 27 Counties	2/15/2016	4/15/2016	3/16/2016
	Attachment D: Imagery Acquisition Compliance Report	2/1/2016	4/29/2016	4/21/2016
	Exploitation Stereo Samples	4/1/2016	4/1/2016	4/15/2016
	Exploitation Samples	5/31/2016	5/31/2016	95%
<b>3B</b>	<b>Acquisition Post-Processing</b>	<b>2/1/2016</b>	<b>5/29/2016</b>	
	Attachment E: GNSS-IMU Post Processing & Aerotriangulation Report	3/1/2016	5/27/2016	6/20/2016
	Ortho Generation Workshop	4/27/2016	4/27/2016	4/14/2016
<b>4</b>	<b>Quality Review Production and Product Delivery</b>	<b>8/1/2016</b>	<b>12/30/2016</b>	



	QC Production Cycle	8/1/2016	12/30/2016	
<b>5</b>	<b>Implementation</b>	<b>1/31/2017</b>	<b>3/30/2017</b>	
	Product Delivery	1/19/2017	1/27/2017	
	Implement the NC OneMap Geospatial Portal Solution	2/1/2017	Ongoing	
	60 day End-User Evaluation	1/30/2017	3/30/2017	
<b>6</b>	<b>Project Closeout</b>	<b>4/1/2017</b>	<b>6/30/2017</b>	
	Final Data Packaging and Final Reports	4/1/2017	5/31/2017	
	Project Closeout	6/1/2017	6/30/2017	

#### Budget

The expenditures for the project are summarized below. Note the current reporting period represents May 1 - June 30, 2016. The total budget for the project is \$4,047,760.

Item	This Reporting Period	Cumulative to Date	Percent Expended to Date
CGIA			
CGIA Labor	\$41,265.00	\$172,468.00	
DIT Hosting and Information Technology	\$0.00	\$0.00	
CGIA Travel	\$513.48	\$513.48	
CGIA Reimbursable Expenses	\$110.44	\$110.44	
<b>CGIA Total</b>	<b>\$41,888.92</b>	<b>\$173,091.92</b>	<b>37.0%</b>
<b>Subcontractors</b>			
NCDPS-NCGS	\$631.40	\$67,428.93	31.6%
NC DOT	\$7,737.99	\$17,745.52	10.9%
Sanborn	\$55,481.36	\$318,010.64	55.7%
Atlas	\$47,397.67	\$209,275.77	32.5%
Surdex	\$77,850.13	\$278,955.63	61.7%
Spatial Data	\$110,954.82	\$379,160.25	66.9%
ESRI	\$0.00	\$0.00	0.0%
VOICE	\$12,867.52	\$19,367.52	24.5%
<b>Subcontractor Total</b>	<b>\$312,920.89</b>	<b>\$1,289,944.26</b>	<b>47.5%</b>
<b>Grand Total (for Project)</b>	<b>\$354,809.81</b>	<b>\$1,463,036.18</b>	<b>36.1%</b>

## Major Tasks Identified for July 2016

### CGIA

- Update project website and web mapping content for effective communication
- Finalize VOICE production and development and release live interface
- Engage PSAPs and County end-users to attend VOICE training workshops
- Initiate development of data deliverable validation tools
- Develop material for and host VOICE training workshop
- Finalize QC review preliminary tiles for upload into VOICE
- Other tasks include regular team meetings and ongoing outreach to federal, state and local partners

### NCGS

- Attend weekly project meetings
- Continue to perform maintenance on field survey and GPS equipment
- Complete procurement of horizontal QC contractors

### NCDOT

- Attend weekly project meetings
- Develop preliminary tiles for upload into VOICE

### Private Subcontractors (Sanborn Map Company, Atlas Geographic Data, Surdex Corporation, Spatial Data Consultants)

#### Task 1 - Flight Planning

- Finalize all Attachment C-1 Flight Plan Reports

#### Task 2 - Imagery Acquisition

- Process and submit exploitation color samples

#### Task 3 - Aerotriangulation and Ortho Generation

- Finalize all solutions for orthorectification, seamline development, and DEM production

#### Task 4 - Product Delivery and Data Acceptance

- Finalize Level 1 QC for initial delivery orders

### **Project Issues**

There are no financial or technical issues to prevent the team from completing the project on time and within budget.

Please contact me by phone at (919) 754-6588 or email at [tim.johnson@nc.gov](mailto:tim.johnson@nc.gov) if you have questions



PAT MCCRORY  
*Governor*

KEITH WERNER  
*State Chief Information Officer*

about this report or about contractual or administrative aspects of the project. Contact Darrin Smith of CGIA at (919) 754-6589 or email at [darrin.smith@nc.gov](mailto:darrin.smith@nc.gov) regarding technical matters related to the project.

Sincerely,

A handwritten signature in black ink that reads 'Tim Johnson'.

Tim Johnson, GISP  
Director  
Center for Geographic Information and Analysis

PSAP Grant-Statewide 911 Projects Fund

		Grant Completion (+/-)	Total Disbursed			Remaining Grant Balance
			FY 2011 - FY2014	Jul-16	Aug-16	
				\$27,672,073.85	\$25,981,154.35	
	<b>FY2012 Grant Award Total</b>					
<b>Grant Award FY2012</b>						
Rockingham County	7,826,000.00		-7,493,017.69			332,982.31
	<b>FY2013 Grant Award Total</b>					
<b>Grant Award FY2013</b>						
Lenoir County	7,400,000.00		-7,236,114.23			163,885.77
	<b>FY2014 Grant Award Total</b>					
<b>Grant Award FY2014</b>						
Anson County G2014-01	949,000.00		-797,434.36			151,565.64
Henderson County G2014-04	3,600,000.00		-3,433,293.71			166,706.29
Hertford County G2014-05	4,250,000.00		-3,339,551.86	-431,687.77		478,760.37
	<b>FY2015 Grant Award Total</b>					
<b>Grant Award FY2015</b>						
Caldwell County G2015-001	1,022,399.00		-995,299.62			27,099.38
Dare County G2015-002	7,002,795.00		-747,957.72	-405,843.71		5,848,993.57
Haywood County G2015-003	2,694,827.00		-1,797,619.21	-63,403.00		833,804.79
	<b>FY2015 Grant Award Total</b>					
<b>Grant Award FY2016</b>						
Graham County G2016-01	3,401,528.00		-11,407.00			3,390,121.00
Hyde County G2016-02	1,266,887.00		-17,689.14			1,249,197.86
Richmond County G2016-03	6,357,537.00		-48,992.60	-37,567.80		6,270,976.60
<b>STATEWIDE PROJECTS:</b>						
E-CATS II	1,354,880.00		-355,423.65	-58,055.72		941,400.63
Interpretive Services	1,155,000.00		0.00			1,155,000.00
Ortho Project III Image 15	3,719,332.00		-3,483,256.27	-141,291.30		94,784.43
Ortho Project III Image 16	4,076,752.00		-1,587,983.61	-570,650.16		1,918,118.23
	Approved Transfer from PSAP Fund					
	<b>Interest</b>			17,579.96		
	<b>Total Ending Fund Balance</b>		\$ 27,672,073.85	\$25,981,154.35	\$ -	\$ 23,023,396.87
						\$ 23,023,396.87
						\$2,957,757.48

NG 911 FUND	Revenue 10%	Interest	NG 911 Disbursement	NG 911 Fund Balance
Beginning Fund Balance:				\$4,203,563.24
July 2016	\$606,312.83	\$2,670.51		\$4,812,546.58
August 2016	\$0.00	\$0.00		\$4,812,546.58
September 2016	\$0.00	\$0.00		\$4,812,546.58
October 2016	\$0.00	\$0.00		\$4,812,546.58
November 2016	\$0.00	\$0.00		\$4,812,546.58
December 2016	\$0.00	\$0.00		\$4,812,546.58
January 2017	\$0.00	\$0.00		\$4,812,546.58
February 2017	\$0.00	0.00		\$4,812,546.58
March 2017	\$0.00	0.00		\$4,812,546.58
April 2017	\$0.00	0.00		\$4,812,546.58
May 2017	\$0.00	0.00		\$4,812,546.58
June 2017	\$0.00	\$0.00		\$4,812,546.58

CMRS FUND:	CMRS Revenue	Interest	CMRS Disbursement	GRANT Allocation	CMRS Fund Balance
Beginning Fund Balance:					\$3,632,364.39
July 2016	\$656,844.67	\$2,307.63	\$560,421.36		\$3,731,095.33
August 2016	0.00	0.00	0.00		\$3,731,095.33
September 2016	0.00	0.00	0.00		\$3,731,095.33
October 2016	0.00	0.00	0.00		\$3,731,095.33
November 2016	0.00	0.00	0.00		\$3,731,095.33
December 2016	0.00	0.00	0.00		\$3,731,095.33
January 2017	0.00	0.00	0.00		\$3,731,095.33
February 2017	0.00	0.00	0.00		\$3,731,095.33
March 2017	0.00	0.00	0.00		\$3,731,095.33
April 2017	0.00	0.00	0.00		\$3,731,095.33
May 2017	0.00	0.00	0.00		\$3,731,095.33
June 2017	0.00	0.00	0.00		\$3,731,095.33



	Revenue						GRANT Allocation Transfer out	Monthly Expenditure	Fund Balance
	PSAP 80%	Wireline	VOIP	Prepaid Wireless	Interest	Total			
<b>PSAP FUND</b>									\$ 17,961,526.84
July 2016	\$2,627,378.63	\$1,139,878.21	\$978,145.51	\$962,964.44	\$11,410.88	\$5,719,777.67		\$4,162,300.21	\$19,519,004.30
August 2016	0.00	0.00	0.00	0.00	0.00	\$0.00		0.00	\$19,519,004.30
September 2016	0.00	0.00	0.00	0.00	0.00	\$0.00		0.00	\$19,519,004.30
October 2016	0.00	0.00	0.00	0.00	0.00	\$0.00		0.00	\$19,519,004.30
November 2016	0.00	0.00	0.00	0.00	0.00	\$0.00		0.00	\$19,519,004.30
December 2016	0.00	0.00	0.00	0.00	0.00	\$0.00		0.00	\$19,519,004.30
January 2017	0.00	0.00	0.00	0.00	0.00	\$0.00		0.00	\$19,519,004.30
February 2017	0.00	0.00	0.00	0.00	0.00	\$0.00		0.00	\$19,519,004.30
March 2017	0.00	0.00	0.00	0.00	0.00	\$0.00		0.00	\$19,519,004.30
April 2017	0.00	0.00	0.00	0.00	0.00	\$0.00		0.00	\$19,519,004.30
May 2017	0.00	0.00	0.00	0.00	0.00	\$0.00		0.00	\$19,519,004.30
June 2017	0.00	0.00	0.00	0.00	0.00	\$0.00		0.00	\$19,519,004.30

PSAP	Jul-16	Aug-16	Sep-16	Oct-16	Nov-16	Dec-16	Jan-17	Feb-17	Mar-17	Apr-17	May-17	Jun-17	Jul-17
Alamance County Central Communications	*****	*****	Estimated in Weeks	after plan approval		*****	*****						
Staff	Not approved yet. Sent back with questions and comments												
Alexander County E9-1-1 Communications		CPE/Radio Purchase					Trunk Install/Test			Training/Test		Go Live	
Staff	Waiting for response from Russell Greene												
Alleghany County E911	Renovations of facility	CPE/Radio/Trunk Purchase					Complete CPE Radio/Trunk Install				Test/Train	Go Live	
Staff	Not approved yet. Sent back with questions and comments. County Manager has left.												
Anson County Emergency Communications	Test CAD	Test and Go Live											
Staff	Circuit install by September 15th.												
Ashe County Communications Center				Generator install	Monitors install	911 server install			CAD install			Go Live	
Staff	Computers have arrived. Waiting on Commissioners to approve space												
Avery County Communications Center		Order equipment	Begin equipment Install		CPE/Radio Test		ANI/ALI @ both centers		Begin testing		Go Live		
Staff	Waiting on AT&T to get figures and will get corrected plan submitted md-September												
Beaufort County Communications Center	*****	*****	Estimated in Weeks	after plan approval		*****	*****						

Staff	Not approved yet												
Bertie County Communications	Move to new center	Old center becomes backup											
Staff	timeline adjusted. Move to new center mid-September												
Brunswick County Central Communications	Site renovation	Install MPLS			Relocate CPE Radio Purchase	CAD desktop purchase	Configure CAD	Metro-E install	Test	Go Live			
Staff	Trying to get pricing on MPLS												
Caldwell County Sheriff's Office/E-911 Comm Center	Order radio equipment	Complete radio/recorder install				Test/Train GoLive							
Staff	Milestone Complete												
Caswell County 911 Communications	Order equipment	Install trunks	Test CAD	Test radio	Test CPE	Train	Go Live						
Staff	Not approved yet.												
Catawba Co Communications Center	Begin procurement process	CAD/Map server install			Furniture/radio/CPE install	CAD/Mapping desktops install	Test and Go Live						
Staff	Milestone in process.												
Cherokee County	Order radio equipment	Order CPE furniture install	Trunks/fiber/CAD install	Test and Go Live									
Staff	Waiting for financial approval.												
Chowan Central Communications	CAD server and workstation install										CPE install	Radio install	Recorder install Test and Go Live

Staff	Applied for a grant									
Clay County Dispatch	Order equipment	equipment install	Test and Go Live							
Staff	Milestone complete									
Cleveland County 911 Communications	Install trunk lines Order telephones Order CAD	Install CAD	City is running new fiber		Test radio, CPE. and CAD	Training	Go Live			
Staff	Waiting for updated quotes									
Kings Mountain Communications	Install Microwave	Install CAD	Test	Test	Test	Go Live				
Staff	equipment ordered waiting on Shelby council to approve the microwave									
Shelby Police Communications	Install Microwave	Install CAD	Test	Test	Test	Go Live				
Staff	Applied for grant. Ordered equipment and computers. Waiting on town council for microwave. Fiber run is almost complete.									
Columbus Central Communications	Purchase furniture	Purchase equipment	Install radio	Install Generator	Install CAD			Insall CPE recorder	Go Live	
Staff	Waiting for response from Kay Worley									
New Bern Emergency Communications	Purchase equipment for fiber connec tivity	Telephone equipment purchase	Radio equipment purchase	Radio equipment install	Telephone system install			Test and go live		
Staff	Milestone complete	Milestone complete								
Craven County Emergency Communications	Install workstations and radio links			Test	Move Side B	Test	Go Live			

Staff	Equipment has been ordered and a pre-purchase request sent in for fiber and servers.										
Currituck Communications	Purchase computers and monitorsElectrical workPurchase CPE, Upgrade generator and UPSPurchase furnitureInstall circuitsTest and Go Live										
Staff	In discussions with county IT about equipment purchase.										
Dare Central Communications	Equipment is being setup at the Centurylink central office for use as an interim backup until the new primary is operationalPrimary becomes backup										
Staff	Waiting on response from Tray Piland										
Davidson County 911	Room recondition	Side B/radio/CAD install	UPS/Generator Install	Test and Go Live							
Staff	"A"side is in, "B" side is being staged. Radio being staged at radio shop, CAD workstations staged. Trying to order generator and UPS.										
Edgecombe County 911	Contracts SignedComputer equipment purchaseCenturylink begins installTest and Go Live										
Staff											
Tarboro Police Communications	Contracts SignedComputer equipment purchaseCenturylink begins installTest and Go Live										
Staff											
Winston Salem Police Department	Renovate and purchase phone positions. Purhcase CADMove old furniture to backupInstall phone, radio, and CADTestGo Live										
Staff	Getting bids in for renovations and deciding on furniture and equipmetn layout.										
Franklin County Communications Center	Order Equipment, begin renovationTestGo Live										



Staff											
GatesCounty Central Communications	Order equipment    Move Side B of switch    Order Servers and command posts    Install equipment    Install trunks and fiber    Test    Go Live										
Staff	Waiting on response from Herman Weiss										
Granville County Emergency Services	Facility Modifications    Purchase equipment    Test    Go Live										
Staff	Have asked for a funding consideration and will purchase equipment in September. Facdility modifications complete										
Greene County Communications Center	Order equipment    Install trunks    Install phones, radios, and CAD    Move CAD server and run fiber    Test radio, CAD, and phones    Training/Test    Go Live										
Staff	Not approved yet.										
High Point Communications	Install trunks and last leg of fiber    Configure CAD, test radio, CAD, and phones    Train    Go Live										
Staff	Fiber ran, equipment in.										
Halifax County Central Communications	Renovations begin    Contracts signed and equipment ordered    Furniture install    Radio, phone, CAD, recorder install    Test and Go Live										
Staff	Applied for grant.										
Haywood County 911	New 911 Live    ECR with West    Test and Go Live										
Staff	Waiting on response from Chanda Morgan										
Henderson County Sheriff Communications	New 911 Live    ECR with West    Test and Go Live										

Staff	Waiting on Haywood to go live.																																			
Hertford County Emergency Services	Renovate room				Schedule installation				Test				Go Live																							
Staff	Not approved yet.																																			
Lincoln CountyCommunications Center					Start construction, confirm equipment				Begin equipment install				Test				Go Live																			
Staff	Not approved yet.																																			
Madison County 911	Radio install				Trunk install, CPE install				CAD/MAP install				Test and Go Live																							
Staff	Waiting for response from Teresa Ogle																																			
Martin County Communications Center	Modular Onsite				Final site prep				Procurement process				Schedule work plans				Order Equipment				Begin scheduled work				Plan for completion				Test and Go Live							
Staff	Applied for grant.																																			
McDowell County 911 Center	Building enhancementproject begins												Install equipment				Test				Go Live															
Staff	Applied for grant.																																			
Cornelius-Huntersville Police Communications					CPE install												Install MPLS and A911				test				Go Live											
Staff																																				
Pineville Police Department					CPE install																Install MPLS and A911				test				Go Live							

Staff															
Mitchell County Central Communications	Completion of offsiteSALI database server. Go Live														
Staff	Applied for grant														
Montgomery County 911 Communications	Order equipment	MOU				Equipment install				Test	Go Live				
Staff	Not approved yet.														
Moore County Emergency Services	*****	*****	Estimated in Months	after plan approval	*****	*****	Test			Test and Go Live					
Staff	Applied for grant														
Rocky Mount Central Communications	Order equipment										Rewire building and furniture install	Radio,CPE,CAD install	Test and Go Live		
Staff	Applied for grant														
New Hanover County Public Safety Comm Center	Engineering	Electrical and Data	AT&T CRS installation	Interior cosmetic	install furniture	Test and Go Live									
Staff	Backup plan approved on 8/22/2016														
Northampton County Communications	Order equipment										Instal CPE	install CAD etc.	Test and Go Live		
Staff															
Orange County Emergency Communications	Install and test										Install and test	Install and test	Test	Test and Go Live	

Staff	Radio equipment ordered. Vendor working County to run connections.																																																																																									
Pamlico County Emergency Management	Resubmit plan										Implement interim backup procedures										Apply for grant and finalize implementation Of 911 permanent backup plan system																																																																					
Staff																																																																																										
Pasquotank/Camden E9-1-1	*****										*****										Estimated in Weeks										after plan approval										*****										*****																																							
Staff	Applied for grant.																																																																																									
Pender County 911	Complete training and switch to new phone system																																																																																									
Staff	Waiting for response from Missy Ezell																																																																																									
Perquimans County Communications																					CAD server and workstation install																				CPE install																				Radio install										Recorder install Test and Go Live																			
Staff	Applied for grant																																																																																									
Pitt County Communications	*****										*****										Estimated in weeks																																																																					
Staff	Applied for grant																																																																																									
Polk County Communications	Room modification																				Workstations delivered																				Fiber complete										Radio and admin phone lines install										Equipment installed										Go Live																			
Staff	Not approved yet.																																																																																									
Randolph County 911	Construction complete																														Move to new center old center becomes backup																																																											

Staff											
Robeson E-911 Communications Center	Site modifications      install equipment      Go Live										
Staff	Not approved yet.										
Lumberton Communications Center	Sheetrock/wiring finish      Order and install equipment      Go Live										
Staff	Not approved yet.										
Rockingham County 911 Communications	*****      Plan is in operation      however; they will be      installing CAMA trunks      at Guilford Metro      *****										
Staff											
Rowan County Telecommunications	Contracts signed for ordering of equipment      Furniture install and radio upgrade      Radio training and half of recorder moved      Equipment install      Test      Go Live										
Staff	Applied for grant										
Rutherford County Communications	Order CPE	Order other equipment	Install furniture	Install CPE and generator	Test	Go Live					
Staff	Not approved yet.										
Sampson County 911 Communications	Equipment order      Begin install      Train      Go Live										
Staff											
Stokes County Emergency Communications	Recorder and CAD setup      Test VIPER talk groups      Setup ECR      Go Live										



Staff	Not approved yet.																														
Surry County 911 Communications	Construction Construction Construction Order equipment Construction complete Install equipment Test Go Live																														
Staff																															
Eastern Band of Cherokee Indians	Meet with other PSAPs	Receive equipment quotes	Make contact for install of servers	MOU's		Train	Go Live																								
Staff	Not approved yet.																														
Transylvania County 911 Center	Begin install of equipment										Go Live																				
Staff																															
Warren County E-911 Communications	Get map data to Halifax		Upgrade Radio	Train		Go Live																									
Staff																															
Washington County Communication Center	Construction begins										Contracts signed and equipment ordered					Trunks installed					Renovation complete equipment install					equipment install	Equipment install	Equipment installed	equipment install	Test and Go Live	
Staff	Applied for grant																														
Beech Mountain	***** Estimated in Weeks										after plan approval																				
Staff																															
Boone Police Department 911	***** Estimated in Weeks										after plan approval																				

Staff	Half of the equipment is in place and the other half has been ordered.					
Wilkes County Emergency Communications	Move Primary	Setup services for operations	Setup services for operations	Setup services for operations	Go Live	
Staff	Not approved yet.					
Yadkin County Sheriff's Office	Submit PO for equipment install equipment test Go Live					
Staff	Not approved yet.					
Yancey County E-911	Radio install	Trunk install, CPE install	CAD/MAP install	Test and Go Live		
Staff	Waiting on response from Mark.					



North Carolina APCO / NENA Conference Committee  
Crystal McDuffie, ENP, RPL  
1237 Open Field Drive  
Garner, NC 27529

July 22, 2016

North Carolina 9-1-1 Board  
Office of Information Technology Services □  
PO Box 17209 □  
Raleigh, NC 27619-7209

Mr. Taylor,

Please accept this request from the North Carolina chapters of NENA and APCO for the Board to sponsor one pre-conference course and one super-session for telecommunicators at our annual conference in Sea Trails, September 11-14, 2016. Course descriptions and costs are attached to this request.

We are requesting one pre-conference course, the recommended course will allow for 30 participants and addresses a very important issue within 9-1-1 centers, **bullying**. In addition, we are requesting a 4 hour telecommunicator block of instruction on Active Shooter incidents on Tuesday, September 13.

**This is an error, the class requested is Caught in the Middle: A Guide to Middle Management**

We appreciate the Boards commitment to education of 9-1-1 Professionals in North Carolina. If you will let me know the date this will be reviewed by the 9-1-1 Board, I will make every effort to attend that meeting to answer any questions the board may have.

Thank you for your consideration,

Crystal McDuffie, ENP, RPL  
919-625-6864  
[ncapcotraining@gmail.com](mailto:ncapcotraining@gmail.com)

## **Caught in the Middle: A Guide to Middle Management: \$4000.00**

(this course will be offered as a pre-conference course)

The heart of management in public safety communications rests on the shoulders of the "middle managers". This course provides strategies for success for supervisors and managers who are caught in the middle. Real world examples and techniques will be utilized to assist middle managers in understanding the best ways to communicate messages up and down, developing leadership qualities in themselves and mentoring subordinates, and avoiding the land mines that can impact both PSAP operations and career advancement.

### **Method 1 - Outright Purchase**

Under this method, the host buys the course(s) outright and handles attendee registrations. Our one-day classes are **priced at \$4,000**, and two-day offerings are \$7,000. Some courses that may require two instructors are priced slightly higher. Discounts are available for hosts who purchase multiple classes. Hosting courses using this method allows the host to set its own pricing, to provide free or discount seats to attendees, to pay for the offering out of a training budget or through a grant, and/or to potentially generate revenue from the event. Most NENA courses have a 30-seat limit. This number is negotiable on a case-by-case basis.

Training Provided by: NENA [www.nena.org](http://www.nena.org)

---

## **Active Shooter Terrorist \$1800.00 (4 hour block)**

(This course will be offered during the Vendor Exclusive Hours on Tuesday, September 13 from 8am – 12pm)

One of the most serious threats today is the Active Shooter Terrorist. The course will review both domestic and international incidents and the role of the telecommunicator. The Active Shooter has become a part of modern society. Active shooter incidents range from Columbine High School to the Edmond Post Office, Ok. The role of the call taker/dispatcher is critical and your knowledge of the active shooter protocol will help you save lives. This is the most comprehensive and **only** online active shooter class on the market. The class will not only give you a historical perspective but will review numerous incidents including actual 9-1-1 calls and radio tape. The class will even look at what future active shooter incidents may involve.

After taking this course, you will be able to:

- Know what the Active Shooter is.
- Develop techniques to respond to active shooter incidents.
- Improve and expand your call taking & dispatching techniques.
- Know what to expect.

Training Provided by: The Public Safety Group <http://publicsafetygroup.com>

## 2017 Grant Cycle Applications

Ashe County.....	2
Catawba County 1.....	76
Catawba County 2.....	172
Chowan County.....	373
Forsyth County.....	388
Halifax County.....	425
Hoke County.....	492
Lincoln County.....	510
Martin County.....	526
McDowell County.....	685
Mitchell County.....	697
Moore County.....	855
Pasquotank County.....	869
Perquimans County.....	889
Pitt County.....	931
Rocky Mount.....	945
Rowan County.....	985
Shelby.....	1011
Washington County.....	1056
Wilson County.....	1131

# North Carolina 911 Board Grant Application

## General Information

**Project Title** Off-site Backup for Ashe County Communications

**Grant Fiscal Year - 2017**

**Project Director** B. Phil Howell

**Project Contact** B. Phil Howell

**Project Contact Title** Director

**Address** 140 Government Circle

Jefferson, NC 28640

**Phone** (336) 620-6988

**Email** phowell@asheso.com

*Three types of grants are available, as described below. In the box following these descriptions, please select the Grant Type which most appropriately fits your request.*

- **Consolidation** - A consolidation project involves combining one or more PSAPs with a primary PSAP with an integrated management structure that serves the same populations and jurisdictions previously served by offering grant funding for both PSAP costs authorized under G.S. 143B-1406(e) and costs not authorized under G.S. 143B-1406(e) to include construction costs.
- **Individual PSAP Enhancement/Replacement** - the relocation costs of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.
- **Regional Initiative Enhancement/Replacement** - Regional initiatives are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such initiatives comprise projects involving two or more primary PSAPs or a primary PSAP with approved secondary PSAPs. Costs of relocation of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.



**Grant Type**    *Individual PSAP Enhancement/Replacement*

**PSAP Name**   *Ashe County Communications Center*

1.   ***Has the Revenue/Expenditure Report for FY15 been completed and approved by the NC 911 Board Fiscal staff for the applicant PSAP?***

YES

2.   ***Has the applicant PSAP submitted a plan and secured the means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP (backup plan)?***

YES

3.   ***If the answer to #2 above is yes, does the PSAP have the means to implement the plan before 7/1/16?***

NO

4.   ***If plan implementation will not occur before July 1, 2016, has an extension been requested?***

NO

-----

# **Project Description**

***Required for all grant types, this should be a thorough, concise, and complete description of the proposed project.***

## **5. Please outline project goals and objectives.**

The goal of our Backup PSAP Center is to provide a secure location to provide the citizens of Ashe County a way to gain emergency response in the event our primary facility fails. Due to the location and availability of adjacent PSAPS, we are forced to utilize a full off-site backup center at Family Central. Family Central is a county owned building that has the full network infrastructure of our county government buildings. This would give us a physical location to dispatch emergency services from as well as backup location for our emergency dispatch services

## **6. Please provide an implementation strategy and work plan, including a timeline.**

Our plan is based on our pending mandated Back-up Center Plan. We have submitted one version to T. Dodd however we have altered our plan due to lack of funding. We have removed the geo-diverse function of our plan and hope to have it fully submitted on June 8th, 2016. Due to the lack of monies to complete this, our implementation plan and timeline are dependent on the funding we are able to receive. Our current backup is the Wilkes County Communications Center. When our system fails, our calls are re-routed to WCCC. We currently are able to use one Command Post and dispatch from anywhere. With the help of additional funding, our goal is to purchase an additional command post system. Our network infrastructure should be setup by September 2016. The backup generator and outlets that solely power the 911 Call Taking system should be installed and setup by December 2016. The new 911 server is planned to be installed at the Sheriff's Office by October 2016 and soon thereafter mirrored to our new 911 Server at our backup location by December 2016. During this time, our new CAD machines and monitors will be installed at our PSAP. The old systems will be re-formatted and used at the backup location. This would be done after the electrical and network infrastructure is completed, by March 2016.

## **7. Please identify the interface or compatibility between existing equipment and/or software and that which you intend to purchase.**

Our systems are currently very old, including our radios. Southern Software has been kind enough to give us Emergency Position license for our CAD software at this location. These are available to us at no cost. Our current system is currently routed to Wilkes in the event we lose a single 911 call. Our Command Post positions need only a Wi-Fi connection (though not recommended) to currently take calls. Once we secure the Family Central location, our goal is to set both Command Post systems down and connect directly into the land line. Our new 911 server will mirror our new backup 911 server at our backup location live, using NeverFail. In the event of a failure, our IT would switch the backup server to primary, allowing us to work directly off it.

## Statement of Need

***Required for all grant types, this statement should reference the relationship of the grant project to NCGS §143b-1407(b) and the current funding priorities established by the Grant Policy and Procedures and include evidence of any financial need.***

### **8. Please indicate how your PSAP or group of PSAPs meets the statutory criterion of serving a rural or high cost area.**

Our dispatch center is the only communications center in Ashe County. Serving 429 square miles that includes 60 people per square mile. Due to the nature of our location, Ashe County is a place where many homes are only occupied for small portions of the year. In the 2010 census, the county held just over 27,000 residents. While only 11,755 homes were occupied by residents. There are three (considered) towns including Jefferson, Lansing & West Jefferson. Jefferson contains 1,611 residents, West Jefferson contains 1,299 residents and Lansing contains 158. Ashe County is very rural, with a large population living here.

### **9. Please identify funding priorities, their impact on operational services, and consequences of not receiving funding.**

Our first priority is the replacement of our current 911 server. It is very old, approximately 10 years or more. The server has less than 100mb of space available. We currently have to clean a cache and other files to keep these running. While planning on the replacement for our 911 server, we were advised that our backup PSAP must have an identical server in order to replicate the primary server. This does not include the mirroring software. If we were not able to replace these items, our system could lock up, removing our CAD and Mapping capabilities. With this, Southern Software would be needed to provide Wireless Messaging for backup center, 2 remote CAD positions, Neverfail for Physical Server and installation of Neverfail. Our next priority is the replacement of our current CAD machines. They are several years old and continually lock up and shut down on us. The quote is for 2 desktops to replace our old machines, 2 portables to be used during a backup scenario, usb port replicators and display port adapters. A backup generator and electrical installation/wiring would need to be installed at the backup location. This system is needed in the event of a power failure at our backup location, without this our calls would be routed back to Wilkes. Replacing current monitors. These monitors are at the end of their life cycle and the images are starting to burn in to the screens. A total of 16 monitors are needed. 12 to replace current positions and 4 for the new third position. PSAware for our system allows our staff to view and interact with our CAD software when calls come in. Eliminating the need for some officers to call in for every call. They are able to use their mobile phone to see and update a call. This would remove a lot of the un-needed phone and radio traffic while dispatchers are on the phone with 911 or public calls. Replacement of our current MAP monitor. A new monitor would allow for a central MAP containing information on the caller's location. During additional times, PSAware would be shown on this monitor to show active calls

### **10. Please provide a copy of your PSAP's long-term or strategic technology plan and identify how the project fits within it.**

We currently do not have a strategic technology plan written out. Our current plan is simple, to update our current 911 server and CAD machines. Replacing these items are a must, our server

freezes and must be cleaned/restarted once a month. One of our CAD machines will lock up, requiring IT to clean and restart it's services. Our goal during this process is to create a backup situation with all of our software and files. We currently have no backup of our CAD files. We want to replace and replicate our current system while attempting to future proof these items with large hard drives (16 tb/server) and large memory (128gb/server). Our future plan will replace our radio system as it is well over 10 years old

**11. Please identify the likelihood of completing the project utilizing your 911 fund balance and the percentage of grant funding being requested in relation to total project costs.**

It is not possible. We have cut over \$200,000 in cost by not utilizing our system as a geo-diverse intrado system.

# ***Regional Initiative Enhancement/Replacement Project***

***Required for all Regional Initiative Enhancement/Replacement project types. Regional initiative enhancement/replacement projects are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such projects may involve two or more primary PSAPs.***

**12. What is the relationship of participating PSAPs to the initiative? Provide MOUs between PSAPs identifying each participant PSAP's responsibilities to the project.**

Click or tap here to enter text.

**13. Identify intended collaborative efforts between participating PSAPs.**

Click or tap here to enter text.

**14. Identify how resource sharing will take place.**

Click or tap here to enter text.

**15. Indicate how the initiative impacts the operational or strategic plans of the participating agencies.**

Click or tap here to enter text.

**NOTE:** The following section on “Consolidation Project Plan” is **ONLY** required if your type of grant is a “Consolidation”. If your project **IS NOT** a Consolidation, proceed to question # 23 to complete the grant application.

**16. Indicate how a consolidation would take place and improve service**

Click or tap here to enter text.

**17. Indicate how the consolidated PSAP should be organized and staffed**

Click or tap here to enter text.

**18. Indicate what services the consolidated PSAP should perform**

Click or tap here to enter text.

**19. Indicate how consolidated PSAP policies should be made and changed**

Click or tap here to enter text.

**20. Indicate how the consolidated PSAP should be funded exclusive of grant funding**

Click or tap here to enter text.

**21. Indicate what changes or improvements should be made to inter-communications among the local governments participating in the consolidation in order to better support operations.**

Click or tap here to enter text.

**22. Discuss sustainability of the consolidation project during the proposed term of the project, and for the foreseeable future.**

Click or tap here to enter text.





## FINANCIAL DATA

### **23. Current 911 Fund Balance**

The backup plan would deplete the current fund balance in excess of \$100,000.

### **24. Amount Requested**

\$60365.05

### **25. Total Project Cost**

Total projected cost for the Backup Plan is outlined in the Ashe 911 Backup plan to be submitted on June 8th, 2016. The amount requested are for the items directly related to the backup plan itself that are non-reoccurring. For grant purpose, the total project cost is the amount requested, \$60365.05

## **Budget and Budget Narrative**

***A budget and budget narrative must be supplied for all types of projects, as well as a copy of the applicant agency's approved FY 2016 PSAP budget.***

### **26. List planned expenditures**

New 911 server & New backup 911 server. This would cost \$22,007.67 for these items. Wireless Messaging for backup center, 2 remote CAD positions, Neverfail for Physical Server and installation of Neverfail for a total of \$10,745. Replacement of CAD machines. 2 desktops, 2 laptops, usb port replicators and display port adapters. Totaling \$4450.68. A backup generator and electrical installation/wiring. This is a total of \$11376.00. 16 Monitors. Total of \$6,591.20. PSAware. The cost is \$3,750 annually. MAP monitor. This cost is \$1,444.50

### **27. Provide a budget narrative that briefly explains the reason for each requested budget item.**

Replacement of our current 911 server. It is very old, approximately 10 years or more. The server has less than 100mb of space available. We currently have to clean a cache and other files to keep these running. While planning on the replacement for our 911 server, we were advised that our backup PSAP must have an identical server in order to replicate the primary server. This would cost \$22007.67 for these items. This does not include the mirroring software. If we were not able to replace these items, our system could lock up, removing our CAD and Mapping capabilities. With this, Southern Software would be needed to provide Wireless Messaging for backup center, 2 remote CAD positions, Neverfail for Physical Server and installation of Neverfail for a total of \$10,745. Our next priority is the replacement of our current CAD machines. They are several years old and continually lock up and shut down on us. The quote is for 2 desktops to replace our old machines, 2 portables to be used during a backup scenario, usb port replicators and display port adapters. Totaling \$4450.68. A backup generator and electrical installation/wiring would need to be installed at the backup location. This system is needed in the event of a power failure at our backup location, without this our calls would be routed back to Wilkes. This is a total of \$11376.00. Replace our current monitors. These monitors are at the end of their life cycle and the images are starting to burn in to the screens. A total of 16 monitors are needed. 12 to replace current positions and 4 for the new third position. Total of \$6,591.20. Acquire PSAware for our system, allowing our staff to view and interact with our CAD software when calls come in. Eliminating the need for some officers to call in for every call. They are able to use their mobile phone to see and update a call. This would remove a lot of the un-needed phone and radio traffic while dispatchers are on the phone with 911 or public calls. The cost is \$3,750 annually. Replacement of our current MAP monitor. A new monitor would allow for a central MAP containing information on the callers location. During additional times, PSAware would be shown on this monitor to show active calls. This cost is \$1,444.50.

### **28. State how you will follow applicable procurement law, rules, and policies.**

Our IT Department has always taken care of purchasing for these items. They have reached out to

Southern Software and CDW, ensuring the lowest prices and applicable procurement laws have been followed.

**29. If the project will have ongoing expenses, such as monthly recurring charges, describe plans and specific sources for future/long-term funding and demonstrate how the project will be sustained in the future without additional 911 Grant Program funding.**

We are holding our re-occurring cost for a hopeful funding reconsideration.

## **Evaluation**

***All applications must include evaluation information. The final report shall include an evaluation demonstrating that the equipment or services funded by the grant have been purchased, installed/implemented, and are performing as expected.***

**30. Explain how your evaluation will measure the achievement of the goals and objectives identified in the Project Description with a timeline for meeting short, intermediate, and long term goals.**

Once everything is completed, our short goal is to complete a test of our backup location. This is to ensure the basic fundamentals and make sure everything is working. This would be a connect and ensure everything works coherently. Our intermediate goal, soon after the short goal has been accomplished is to dispatch from this location with two dispatchers. This is while we currently have two operating at the original PSAP. Our long term goal, is to have a fully functional backup. This would be evaluated by completely shutting down our communications center, letting calls rollover to wilkes. The setting up our 2 command post at the backup location and dispatching our calls from there. This would allow us to test our time and functionality as layed out in our Backup Plan

**31. Describe how evaluations will be conducted, including performance parameters which must be met in order to meet acceptance criteria.**

An evaluations would provide how fast our IT staff can switch the backup server to function as primary CAD. How fast can we get our Command Post setup to take 911 & admin calls. From time a call has ended, how each dispatcher can page and give a call out via the radio to emergency personel.

**32. Identify how data will be collected and presented**

The data will be collected by the Director of Communications or the Ashe County Emergency Management Coordinator. It would be timed and recorded by both. Each reviewing and collaborating on how we can create a better process



## SALES QUOTATION

QUOTE NO.	ACCOUNT NO.	DATE
HCXK250	3128940	6/6/2016

**BILL TO:**  
COUNTY OF ASHE  
150 GOVERNMENT CIR STE 2500

**SHIP TO:**  
COUNTY OF ASHE  
Attention To: TODD CHAPMAN  
150 GOVERNMENT CIR STE 1400

Accounts Payable  
JEFFERSON , NC 28640-8967

JEFFERSON , NC 28640-9378  
Contact: TODD  
CHAPMAN 336.846.5780

Customer Phone #

Customer P.O. # 2 SERVER QUOTE

## ACCOUNT MANAGER

JOE BARESE 866.819.6497

## SHIPPING METHOD

UPS Ground (2- 3 Day)

## TERMS

Net 30 Days-Govt  
State/Local

## EXEMPTION CERTIFICATE

QTY	ITEM NO.	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
2	3466973	HP DL380 GEN9 E5-2620V3 1P 12LFF SRV Mfg#: 779559-S01 Contract: MARKET	2,650.00	5,300.00
8	3624538	HP 4TB SATA 6G 7.2K 3.5IN 512E HDD Mfg#: 765253-B21 Contract: MARKET	650.00	5,200.00
2	3178328	MS GSA WIN SRV STD 2012 R2 2PROC Mfg#: P73-06309 Contract: MARKET	604.46	1,208.92
14	4077241	Electronic distribution - NO MEDIA HP 16GB 1RX4 PC4-2400T-R KIT Mfg#: 805349-B21 Contract: MARKET	275.00	3,850.00
1	642303	TRIPP 1500VA UPS SMART 120V 2U RM XL Mfg#: SMART1500RML2UA Contract: MARKET	600.00	600.00
5	4148260	MS GSA SQL CAL 2016 UCAL Mfg#: 359-06368 Contract: MARKET	145.00	725.00
2	2669162	Electronic distribution - NO MEDIA MS GSA SQL SRV STD 2 CORE SA Mfg#: 7NQ-00301-3 Contract: MARKET Electronic distribution - NO MEDIA	1,842.00	3,684.00
SUBTOTAL				20,567.92
FREIGHT				0.00
TAX				1,439.75

US Currency

**TOTAL** 22,007.67

CDW Government  
230 North Milwaukee Ave.  
Vernon Hills, IL 60061

Fax: 847.990.8027

**Please remit payment to:**

CDW Government  
75 Remittance Drive  
Suite 1515  
Chicago, IL 60675-1515



**SOUTHERN SOFTWARE, INC.**  
an employee-owned company

**Agency:** **Ashe County Sheriff's Office, NC**  
**Contact:** **Phil Howell**  
**Date:** **6/6/2016**

<b>HARDWARE AND SOFTWARE</b>	<b>Qty</b>	
<b>Wireless Messaging for CAD (with 5 additional Paging Connectors)</b> <i>For Backup Center</i>	1	\$1,000.00
<b>CAD with MDS for EOC</b>	2	FREE
<b>* Neverfail for Physical Server (1 Pair) (Note: first year support included; 2nd year payable to Neverfail - Approx. \$1,000) See Hardware Requirements Below</b>	1	\$4,995.00
<b>Installation/Configuration of Neverfail (Neverfail Installation Onsite)</b>	1	\$4,750.00

<b>TOTAL INVESTMENT</b> (STATE TAX AND SHIPPING NOT INCLUDED)	<b>\$10,745.00</b>
---	--------------------

50% due upon signing proposal; 50% due upon completion of installation.

**CUSTOMER'S SIGNATURE** \_\_\_\_\_ **DATE** \_\_\_\_\_

**Please sign this document and return it to us by fax or mail. When the document is signed and returned to Southern Software, we will begin processing your order.**

**Proposal is valid for (30) days from date of proposal..**

#### Hardware Requirements

##### Primary Server

- Must meet Microsoft's requirements for one of the following installed operating systems:
    - Windows Server 2003 x86 and x64 Standard / Enterprise / R2 with SP1 or SP2
    - Windows Server 2008 x 86 and x64 Standard / Enterprise with SP1 or SP2
    - Windows Server 2008 R2 x64 Standard / Enterprise / Datacenter with SP1
    - Windows Server 2012 x64 Standard/Datacenter
  - 1 GB RAM minimum, 2 GB RAM recommended
  - Minimum available RAM required for Neverfail processes and components (recommended 1GB)
    - Minimum of 256 MB available for Neverfail processes and components on Windows Server 2003
    - Minimum of 512 MB available for Neverfail processes and components on Windows Server 2008/R2
    - Minimum of 512 MB available for Neverfail processes and components on Windows Server 2012
  - 2 GB of available hard disk space
  - Number of NICs:
    - In a Pair configuration: 2 non-teamed NICs required, 3 non-teamed NICs recommended
    - In a Trio configuration: minimum 3 NICs required (one for the Public connection and 2 for the Neverfail Channels)
- Note: Neverfail Heartbeat v6.7 and later supports use of a single NIC for both the Neverfail Channel and Principal (Public) network connection.
- Multiple hard disk drives are recommended as per application vendors' requirements. Avoid locating OS, database, and log files on the same disks

##### Secondary Server and Tertiary (if implemented)

- Must meet Microsoft's requirements for one of the following installed operating systems:
  - Windows Server 2003 x86 and x64 Standard / Enterprise / R2 with SP1 or SP2
  - Windows Server 2008 x 86 and x64 Standard / Enterprise with SP1 or SP2
  - Windows Server 2008 R2 x64 Standard / Enterprise / Datacenter with SP1
  - Windows Server 2012 x64 Standard / Datacenter
- 1 GB RAM minimum, 2 GB RAM recommended
- Minimum available RAM required for Neverfail processes and components
  - Minimum of 256 MB available for Neverfail processes and components on Windows Server 2003
  - Minimum of 512 MB available for Neverfail processes and components on Windows Server 2008/R2
  - Minimum of 512 MB available for Neverfail processes and components on Windows Server 2012
- Total hard disk space should be greater than or equal to the Primary Server
- Same number of NICs as the Primary Server
- Hard drive lettering scheme must match the Primary Server (although underlying hardware may be different)



***Contact information for Public Safety Representative:***

**Mike Moody  
Southern Software  
150 Perry Drive  
Southern Pines, NC 28387**

**Business: 800.842.8190  
Mobile: 910.603.3481  
Fax: 910.695.0251  
E-Mail [mmoody@southernsoftware.com](mailto:mmoody@southernsoftware.com)**



## SALES QUOTATION

QUOTE NO.	ACCOUNT NO.	DATE
GXFN382	3128940	3/23/2016

**BILL TO:**

COUNTY OF ASHE  
150 GOVERNMENT CIR STE 2500

**SHIP TO:**

COUNTY OF ASHE  
Attention To: TODD CHAPMAN  
150 GOVERNMENT CIR STE 1400

Accounts Payable  
JEFFERSON , NC 28640-8967

JEFFERSON , NC 28640-9378  
Contact: TODD  
CHAPMAN 336.846.5780

Customer Phone #

Customer P.O. # 3RD QUOTE

## ACCOUNT MANAGER

JOE BARESE 866.819.6497

## SHIPPING METHOD

FEDEX Ground

## TERMS

Net 30 Days-Govt  
State/Local

## EXEMPTION CERTIFICATE

QTY	ITEM NO.	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
2	3926125	HP SB 470 I7-6500U 1TB 8GB W7/10P Mfg#: T6D90UT#ABA Contract: NC eProcurement System	952.60	1,905.20
2	3845327	HP SB 800 I5-6500 500GB 8GB W7/10P Mfg#: P4K16UT#ABA Contract: NC eProcurement System	819.94	1,639.88
2	2749521	HP USB 3.0 PORT REPLICATOR Mfg#: H1L08AA#ABA Contract: NC eProcurement System	221.44	442.88
2	2733469	LVO DISPLAYPORT/DUAL-DISPLAYPORT ADP Mfg#: 0B47092 Contract: NC eProcurement System	85.78	171.56
SUBTOTAL				4,159.52
FREIGHT				0.00
TAX				291.16

US Currency

**TOTAL** 4,450.68

CDW Government  
230 North Milwaukee Ave.  
Vernon Hills, IL 60061

Fax: 847.990.8027

**Please remit payment to:**

CDW Government  
75 Remittance Drive  
Suite 1515  
Chicago, IL 60675-1515



CDWG.com | 800.594.4239

OE400SPS

## SALES QUOTATION

QUOTE NO.	ACCOUNT NO.	DATE
GXFM795	3128940	3/23/2016

**BILL TO:**  
COUNTY OF ASHE  
150 GOVERNMENT CIR STE 2500

**SHIP TO:**  
COUNTY OF ASHE  
Attention To: TODD CHAPMAN  
150 GOVERNMENT CIR STE 1400

Accounts Payable  
JEFFERSON , NC 28640-8967

JEFFERSON , NC 28640-9378  
Contact: TODD  
CHAPMAN 336.846.5780

Customer Phone #

Customer P.O. # MONITORS QUOTE

## ACCOUNT MANAGER

JOE BARESE 866.819.6497

## SHIPPING METHOD

FEDEX Ground

## TERMS

Net 30 Days-Govt  
State/Local

## EXEMPTION CERTIFICATE

QTY	ITEM NO.	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
16	3770960	HP SB Z25N 25IN NARROW BEZEL IPS Mfg#: K7C01A8#ABA Contract: NC eProcurement System \$-26 instant rebate. Expires 2016-04-30	385.00	6,160.00
SUBTOTAL				6,160.00
FREIGHT				0.00
TAX				431.20

US Currency

**TOTAL** 6,591.20

CDW Government  
230 North Milwaukee Ave.  
Vernon Hills, IL 60061

Fax: 847.990.8027

**Please remit payment to:**

CDW Government  
75 Remittance Drive  
Suite 1515  
Chicago, IL 60675-1515

**J and B Electric  
527 Fulton Reeves Rd  
Laurel Springs N.C. 28644**

Quote only

**Phone 336-982-4251**

**Date: 4/21/16**

**To: Ashe County Communication**

**Description:** Wiring to new communication room including 100 amp feeder from main, 22kva generator and transfer switch, and 16 dedicated 20 amp circuits in communication room

**Labor: \$ 3192.00**

**Material: \$ General Material \$ 1789.00**

100 amp breaker

In service an link

Kit \$ 1194.00

Generator and

Transfer switch \$ 5201.00

*— Generac 06552 22kw*

**Other:**

**Total: \$ 11376.00**

Thank You

Bobby Reed



Agency: **Ashe County Sheriff, NC**

Contact: **Phil Howell**

Date: **3/22/2016**

**11-20 Devices**

## **SOFTWARE (ANNUAL SUBSCRIPTION)**

**PSAware for up to 11-20 Devices**

1 Year

\$3,750.00

**TOTAL INVESTMENT** (STATE TAX AND SHIPPING NOT INCLUDED)

**\$3,750.00**

**CUSTOMER'S SIGNATURE** \_\_\_\_\_ **DATE** \_\_\_\_\_

Please sign this document and return it to us by fax or mail. When the document is signed and returned to Southern Software, we will begin processing your order.

Proposal of software is valid for (60) days from date of proposal.

Proposal of hardware is valid for (30) days from date of proposal.

Management fees include training, installation, and project management.

Southern Software will install its software products only on computer configurations compatible with these products. Hardware specifications are available upon request.

### ***Contact information for Public Safety Representative:***

**Mike Moody**  
**Southern Software**  
**150 Perry Drive**  
**Southern Pines, NC 28387**

**Business:** 800.842.8190  
**Mobile:** 910.603.3481  
**Fax:** 910.695.0251  
**E-Mail:** [mmoody@southernsoftware.com](mailto:mmoody@southernsoftware.com)



## SALES QUOTATION

QUOTE NO.	ACCOUNT NO.	DATE
GXFM397	3128940	3/23/2016

**BILL TO:**  
COUNTY OF ASHE  
150 GOVERNMENT CIR STE 2500

**SHIP TO:**  
COUNTY OF ASHE  
Attention To: TODD CHAPMAN  
150 GOVERNMENT CIR STE 1400

Accounts Payable  
JEFFERSON , NC 28640-8967

JEFFERSON , NC 28640-9378  
Contact: TODD  
CHAPMAN 336.846.5780

Customer Phone #

Customer P.O. # 1ST QUOTE

## ACCOUNT MANAGER

JOE BARESE 866.819.6497

## SHIPPING METHOD

DROP SHIP-GROUND

## TERMS

Net 30 Days-Govt  
State/Local

## EXEMPTION CERTIFICATE

QTY	ITEM NO.	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
1	4000482	VIZIO D-SERIES 70IN LED SMART TV Mfg#: D70-D3 Contract: NC eProcurement System	1,350.00	1,350.00
SUBTOTAL				1,350.00
FREIGHT				0.00
TAX				94.50

US Currency

**TOTAL** 1,444.50

CDW Government  
230 North Milwaukee Ave.  
Vernon Hills, IL 60061

Fax: 847.990.8027

**Please remit payment to:**  
CDW Government  
75 Remittance Drive  
Suite 1515  
Chicago, IL 60675-1515

# **ASHE COUNTY** **SHERIFF'S OFFICE**



## **PSAP Back-up Plan**

Ashe County Communications Division



# PSAP BACKUP PLAN FOR THE ASHE COUNTY SHERIFF'S OFFICE

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## Forward

The purpose of this plan is to provide a back-up site for the Ashe County Sheriff's Office should the existing PSAP require evacuation or experience an event that takes the call center out of service.

This plan is a work in progress and will require frequent updating. The plan is also dependent on additional funding to make this possible through a funding reconsideration. It will be reviewed each time the plan is tested or implemented by all call center personnel.

This plan is **awaiting approval** by the North Carolina 911 Board as a Back-up Center Plan and satisfies the requirements of N.C.G.S. 62A-46 (e) (4a).

### **I. About**

#### **a. About the Ashe County Sheriff's Office**

The Communications Division of the Ashe County Sheriff's Office is located on the third floor of 140 Government Circle, Jefferson, NC 28640. This address contains the Detention Center, County Law Enforcement Staff and 911 Communications. It is located in the Jefferson city limits and is adjacent to the county courthouse. The Ashe County Sheriff's Office is located approximately 2.7 miles (1.62 miles direct over air) to the South West from the Family Central location. Ashe County is located in the most North West section of North Carolina, bordering Tennessee & Virginia. Estimated population is 27,126.

#### **b. About the Family Central Enterprise Corporation**

Family Central is owned by the Ashe County Government and operated by the Partnership for Children. It currently houses several departments including the Department of Social Services and Ashe County Parks & Recreation. Prior to 2001, the Family Central building was Ashe Central High School. The building currently has network access to the Ashe County Government via a VPN Air Fiber line.

### **II. History**

This part of the plan provides general history about each PSAP.

#### **a. History of the Ashe County Sheriff's Office**

The Ashe County Sheriff's Office PSAP was previously located at on Academy Street from 1992 to 2010. In 2010 the new Ashe County Law Enforcement Center was completed, housing the three divisions of the Sheriff's Office. The Communications Center was placed on the uppermost, third floor. There are two fully staffed positions that dispatch the majority of the day. A third, remote position has been established in the Director's office. As of February 2016 this position is fully functional, taking calls and dispatching from this location.

#### **b. History of the Family Central Enterprise Corporation building**

Prior to 2001 the Family Central location was home to the Ashe Central High School. The building was built in 1956 and ended high school functions in 2001. In 2000 it was transferred to the Ashe County Government. The 27-acre property contains the primary building that is 22,358 square feet. It has been remodeled and is currently used by several entities.

# PSAP BACKUP PLAN FOR THE ASHE COUNTY SHERIFF'S OFFICE

## III. Agencies Served and Call Volume

### a. Agencies Served and Call Volume – Ashe County Sheriff's Office

The Ashe County Sheriff's Office PSAP provides services to the Ashe County Sheriff's Office, West Jefferson Police Department, Jefferson Police Department, Ashe County EMS & Rescue Squad, Fire Marshal, Animal Control, Department of Social Services, Emergency Management and 17 local volunteer fire departments. In 2015 we received approximately 8,125 911 emergency calls and 37,204 administrative phone calls that do include some emergencies. Approximately 11,308 outbound phone calls were made for a total of 56,800 total calls to and from our PSAP. This resulted in a total of 29,160 documented calls for service for the year of 2015.

## IV. Staffing/Positions/Workstations

### a. Staffing/Positions/Workstations - Ashe County Sheriff's Office

Currently the Ashe Sheriff PSAP has 2 full-time consoles that contain two dispatchers for 18-20 hours a day. The remaining 4-6 hours have a single dispatcher. There is also a remote CommandPost position setup that is used on a daily basis, but not a full 24-hour position. In addition, there is an additional console that will be a remote CommandPost, portable position that is planned for setup this fall in the main dispatch center. This position allows us to have a third position for future and/or exigent circumstances. For the back-up plan, Ashe Comm. Center would remove the two remote portable positions and transfer them to the Family Central location.

### b. Staffing/Positions/Workstations - Family Central

Currently the Family Central room 209, contains two empty rooms. For the back-up plan, there will be two desk setups with monitors. Our two remote positions would be placed in the room, allowing two staffers to dispatch from this room.

## V. Equipment

### a. Equipment - Ashe County Sheriff's Office

**Software:** CAD - Currently 2 CAD Machines with 911 Interface and Mapping. RMS with Calls For Service. One Command Post is fully operational and available to transport/use.

Vendor(s): Southern Software

**911 Phone System:** Motorola Intrado

Vendor(s): Intrado, Wireless Communications, Century Link

**Radio:** Our radio system is estimated at 10 or more years old. It is a Tait 150 Mhz 3 channel, 3 site VHF simulcast system. Radio consoles have an 800 Mhz patch with the ability to connect to any VIPER channel within North Carolina.

Vendor(s): Wireless Communications

**Recording:** Airbus Recording Software

# PSAP BACKUP PLAN FOR THE ASHE COUNTY SHERIFF'S OFFICE

Vendor(s): Wireless Communications

## b. Equipment – Family Central

**Software:** None in place. After funding and approval, an additional CommandPOST will be purchased and installed at our 3<sup>rd</sup> CAD station. When a backup situation arises, the two CommandPOST will be transported to this location and used.

Vendor(s): Southern Software

**911 Phone System:** None in place. Currently in the event our 911 system fails, our calls are routed to Wilkes County Communications. Our calls will be routed to our CommandPOST where we will dispatch from a room in Family Central.

Vendor(s): Intrado & Wireless Communications, Century Link

**Radio:** None in place. We are planning on using portable handheld radios at this location. We have 3 primary radio channels that are in use: Sheriff 1, EMS & Fire. We would use 2 new VHF radios for our EMS & Fire channels, allowing us to page the appropriate department. A new Dual-Band Viper/VHP radio would be used for our Sheriff 1 channel. Three antennas would be installed on the roof of Family Central. Each antenna would be run into the dispatch room and connected to the antenna connection on each handheld radio.

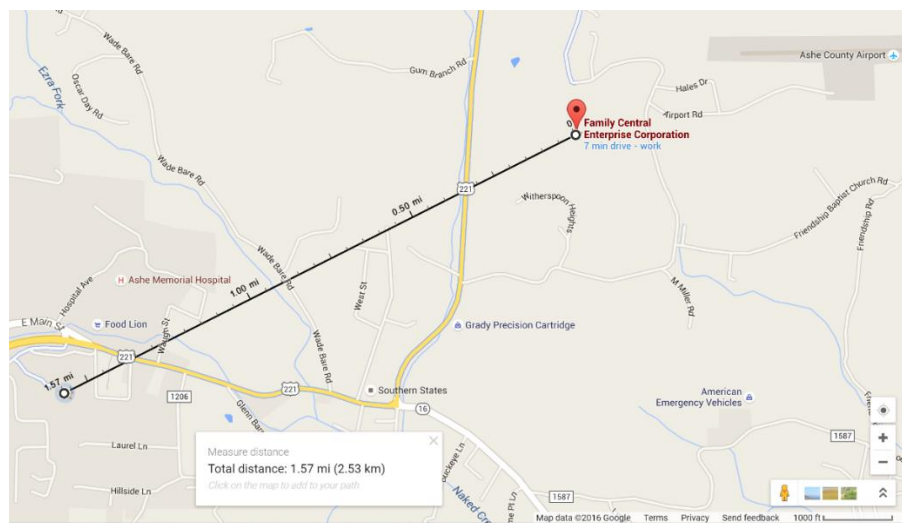
Vendor(s): Wireless Communications

**Recording:** Airbus Recording Software

Vendor(s): Wireless Communications

## VI. Distance Between Ashe County Sheriff's Office and Family Central

The approximate linear distance between the Ashe Sheriff and Family Central buildings is 1.57 miles.



# PSAP BACKUP PLAN FOR THE ASHE COUNTY SHERIFF'S OFFICE

## **VII. Connection Between Centers/Rerouting/Redundancy**

A microwave link will be used in connection between the two PSAP locations. The network will consist of several components. The microwave link consists of 2 integrated links (5GHz and 24 GHz). The links are setup in a redundant configuration in which if the primary connection fails, the system will automatically switches to the secondary link. As plans for potential equipment failure, equipment is in place in which a 3<sup>rd</sup> link that can be activated if necessary at 5GHz. The two primary links are configured in a P2P configuration and the third is configured as a P2MP and only will be used if both the primary and secondary links fail and need maintenance. The microwave link described is used due to long geographical distance and is used as "last mile" in connecting the two PSAP locations.

The above mentioned Microwave link will be used to connect the primary server located at the Ashe County Sheriff's Office with the secondary server at the Family Central location. The primary CAD server's data will continually be replicated to the backup server.

Our 911 system is currently routed through Wilkes Communications Center. Our current Intrado 911 System is setup to send 911 calls to our CommandPost remote positions at any location with internet.

## **VIII. Transition 911 Call Answering**

Calls for Ashe Sheriff automatically roll to Wilkes County Communications. Wilkes County will be notified in the event this plan is implemented. Wilkes County will then communicate any calls they receive to Ashe Sheriff via the states Viper emergency channels.

## **IX. Backup Power Systems**

### **a. Backup Power Systems – Ashe Sheriff**

The Ashe County Sheriff's Office has a large Cummins High Horsepower Commercial Industrial generator. It is 16 cylinder twin turbo diesel, capable of running the entire 60,000 square foot facility that includes the Detention Center, Law Enforcement Center and Communications Center for 24 continuous hours under a heavy load. It has a 2400 gallon diesel fuel capacity.

### **b. Backup Power Systems - Family Central**

None in place. Installation: 100 amp service will be installed and provide service to 8 outlets are to be installed in each of the two rooms at Family Central. These outlets are for call taking of 911 and administrative lines, as well as our server and rack system. The remaining outlets will be used for additional items that are not 911 eligible. A Generac 6552 22kva generator and transfer switch will be installed for power in the event of a power failure.

## **X. Radio Configuration**

### **a. Radio Configuration – Ashe Sheriff**

Ashe Sheriff will use the three new handheld radios as a backup radio system inside the current communications center. These three units will be integrated into the existing Family Central facility in the event of the current communications center being unable to operate. During the transfer of our staff to the Family Central locations, these three radios will be used. One, a handheld Dual-Band Viper radio will be used to communicate with Wilkes County Communications while calls are forwarded to them.

# PSAP BACKUP PLAN FOR THE ASHE COUNTY SHERIFF'S OFFICE

## b. Radio Configuration – Family Central

Family Central currently has no radio equipment. Upon implementation of the backup plan, three antennas will be installed on the roof of the building. Direct lines will be brought into room 209 where our Backup PSAP will be located. Each antenna is for each of the primary channels that are used for Ashe County Emergencies; Sheriff 1, EMS & Fire. The handheld radios will be brought from the Ashe County Sheriff's Office and will be placed in charging docks. The portable antennas will be removed and each handheld will be directly connected to the antennas mounted on the roof. Two of these radios will be new VHS radios with paging functionality, allowing each radio to be dedicated to an EMS or Fire channel. The third radio is a dual-band Viper 800 radio just for Law Enforcement.

## **XI. Maintenance and Testing of Backup Centers**

These back-up systems will be tested monthly. Testing will include turning on equipment; doing any needed updates, testing the redundant Ubiquity AirFiber connection and testing radios.

Mock walk through drills will be completed as needed during initial implementation and as new employees are added. This will also provide staff the opportunity to note any differences in systems, although we are very similar.

A monthly test of the phone and radio system will be conducted. This involves a visit from any of our staff, dispatching one or more calls using our CAD, phones & radio system.

A complete failover test will be conducted and back-up site will be in full use for a minimum 8 hour period on a semiannual basis. This involves a complete shift working from this location. The chosen morning or night shift would start their work day from the backup location, completing each and every call from these positions.

## **XII. Employee Needs**

Both the Ashe County Sheriff's Office and Family Central contain necessary facilities for staff which include showers, and restrooms. Keys for the exterior Family Central building and Room 209 will be stored in two places. One set of keys will be kept inside a lock box in the current commutations center at the Ashe County Sheriff's Office. Another set of keys will be secured by the Director of Communications. In the future, a key fob system will be integrated inside the Family Central location.

## **XIII. Cost**

Cost spreadsheet is attached as the front page of all quotes.

# PSAP BACKUP PLAN FOR THE ASHE COUNTY SHERIFF'S OFFICE

## XIV. Back-up Center Activation Methodology

In the event that the Ashe County Sheriff's Office PSAP experiences an event that triggers the implementation of this backup plan the on duty staff at that facility will immediately notify the PSAP Director and the Sheriff of Ashe County. One of these two positions will make the call to implement the plan or not. Once the decision is made that a fail over is necessary, the Back-up Center Activation Checklist will be executed to make the transition between the primary and the back-up site.

## XV. Back-up Center Activation Checklist

- ☐ Incident has occurred warranting the implementation of this PSAP Back-up Plan. The steps below may be altered depending on the situation that has occurred.
- ☐ Contact the following:
  - PSAP Director Phil Howell 336-620-6988
  - Sheriff of Ashe County James Williams 336-977-6280
  - PSAP Director or active dispatchers will notify the following people that the plan has been executed:
    - Ashe County EMS Director Patty Gambill
    - Ashe County Manager Sam Yearick 1-704-477-6171
    - PSAP Liaison (David Dodd) 1-919-754-6625 david.dodd@nc.gov
    - Director of 911 Board (Richard Taylor) 1-919-754-6624 richard.taylor@nc.gov
  - Major Bucky Absher 336-977-6283
  - Lieutenant Kelley Stevens 336-977-9287
  - Ashe County Head IT Cyrus Hurley 828-773-8693
  - On-duty shift supervisor By Radio
- ☐ Contact Wilkes County Communications 336-903-7600 to let them know they will receive our calls while in transition.
- ☐ Contact Skyline at 1-800-759-2226 and ask to have all administrative lines forwarded to Wilkes County Communications.
- ☐ Shift Supervisor will assist with transportation of personnel and remote equipment as needed to Family Central
- ☐ Have supervisors call in essential personnel if needed (disaster).
- ☐ IT will promote the backup CAD server at Family Central as the new primary CAD server.
- ☐ Connect remote equipment to internet and monitors at Family Central.
- ☐ Contact Skyline at 1-800-759-2226 and ask to have all administrative lines forwarded to Family Central.

\*\*\*\*\* At this point the back-up plan implementation is considered complete \*\*\*\*\*

- Operate 911 from the back-up center until the original site is deemed operational by the Sheriff of Ashe County

# PSAP BACKUP PLAN FOR THE ASHE COUNTY SHERIFF'S OFFICE

## XVI. Reversal Back to Normal Operations Checklist

- ☐ Prior to deploying the reversal, key sheriff, IT, and 911 staff will meet in a coordinated effort to deem the original site functional and staffed.
- ☐ The Sheriff has deemed the original site operational and called for the reversal cut over.
- ☐ Director & Shift Supervisor will assist with transportation of personnel and equipment back to the Ashe County Communications as needed.
- ☐ IT will sync the backup CAD server at Family Central with the primary CAD server at Ashe Communications.
- ☐ Contact the following:
  - PSAP Director Phil Howell 336-620-6988
  - Sheriff of Ashe County James Williams 336-977-6280
  - Ashe County EMS Director Patty Gambill 336-877-0677
  - Ashe County Manager Sam Yearick 1-704-477-6171
  - PSAP Liaison (David Dodd) 1-919-754-6625 david.dodd@nc.gov
  - Major Bucky Absher 336-977-6283
  - Lieutenant Kelley Stevens 336-977-9287
  - Ashe County Head IT Cyrus Hurley 828-773-8693
  - On-duty shift supervisor By Radio
- ☐ Contact Wilkes County Communications 336-903-7600 to let them know they may receive our calls while in transition.
- ☐ Contact Skyline at 1-800-759-2226 and asked to have all phones un-forwarded from Family Central.
- ☐ Begin operations under the two established CAD positions at the Sheriff's Office. Remaining personnel can then remove the remote positons from Family Central and return them to Ashe County Communications.
- ☐ Sheriff or his designee will notify the following people that the plan has been reversed:
  - Ashe County EMS Director Patty Gambill 336-877-0677
  - PSAP Liaison (David Dodd) 1-919-754-6625 david.dodd@nc.gov
  - Director of 911 Board (Richard Taylor) 1-919-754-6624 richard.taylor@nc.gov

\*\*\*\*\* At this point you should be back to normal operations \*\*\*\*\*



# PSAP BACKUP PLAN FOR THE ASHE COUNTY SHERIFF'S OFFICE

## XVII. Names and Telephone Numbers Cited in Back-up Plan

### Agencies

Ashe County Sheriff's Office	1-336-846-5600
Family Central	No Phone at this time
Wilkes County Communications	1-336-838-9111

### 911 Board

Executive Director (Richard Taylor)	1-919-754-6624
Network Analyst/PSAP Liaison (David Dodd)	1-919-754-6625

### Ashe Sheriff Key Personnel

Director of Communications Phil Howell	336-620-6988
Sheriff James Williams	336-977-6280
Major Bucky Absher	336-977-6283
IT Director Cyrus Hurley	828-773-8693
IT Technician Toby Bennett	336-846-5596
IT Technician Todd Chapman	336-846-5780
Ashe County EMS Director Patty Gambill	336-877-0677
Ashe County Manager Sam Yearick	1-704-477-6171

### Vendors

Wireless Communications	1-800-346-5525
Wireless Communications – Bruce Williams	336-324-3627
Wireless Communications – Jimmy Laws	780-420-2303
Skyline Skybest Communications	1-800-759-2226
Southern Software	1-800-842-8190

# PSAP BACKUP PLAN FOR THE ASHE COUNTY SHERIFF'S OFFICE

## **XVIII. List of Communications Center Telephone Numbers**

Ashe Sheriff Admin Lines

336-846-5600a, 336-846-5600b, 336-846-5600c, 336-846-5600d.

Family Central Admin Lines will be purchased after plan and budget approval.

## **XIX. Timeline of Implementation**


Due to the lack of monies to complete this, our implementation plan and timeline are dependent on the funding we are able to receive.

Our estimated timeline is:

- October 2016 – We hope to have the backup generator, additional outlets that solely rely on the generator installed.
- November 2016 – New monitors installed at the Ashe Comm. Center and used ones moved to Family Central backup location.
- December 2016 – We hope to have the network infrastructure with a new server that is a complete live mirror of our new 911 Server.
- March 2017 – Use the old CAD Machines that are replaced with new, reformat them and install at our backup location to be used there.
- June 1, 2017 – Date of implantation. This is extended in case an unexpected problem arises.

ASHE Backup PSAP Financial Documentation					
<u>Non-Eligible Costs</u>		<u>Surcharge Eligible Expenses</u>			
		One-Time Costs		Recurring Costs Monthly	
Product/Service	Cost	Product/Service	Cost	Product/Service	Cost
Room at Family Central	\$ 4,080.90	Monitor Stands (Amazon)	\$ 455.85	911 Routing/Intrado (Motorola)	\$ 9,294.64
2 VHF Radios/Antennas/Install (Wireless)	\$ 3,250.52	CAD Machines/Laptops (CDW)	\$ 4,450.68		
Viper Radio/Antenna/Install (Wireless)	\$ 6,643.30	16 Monitors (CDW)	\$ 6,591.20		
		New 911 Servers (CDW)	\$ 22,007.67		
A		Generater & Electrical (J&B Electric)	\$ 11,376.00		
		2 Chairs & Bolts (Office Designs)	\$ 1,789.00		
		EMD/EFD/EPD Maint. (Priority Dispatch)	\$ 6,171.00		
		EMD/EFD/EPD License (Priority Dispatch)	\$ 12,937.50		
		PSAware (Southern Software)	\$ 3,750.00		
		2 CAD EOC Positions (Southern Software)	\$ -		
		Wireless Messaging, Neverfail, Installation (Southern Software)	\$ 10,745.00		
		CommandPost & Portable Setup	\$ 53,034.49		
	\$ 13,974.72		\$ 133,308.39	Multiplied by 12 for year	\$ 111,535.68

Shopping Cart

	Price	Quantity
 <div><b>EZM Deluxe Hex Monitor Mount Stand Free Standing Supports up to 6 28" (002-0023)</b> by EasyMountLCD <span>In Stock</span></div> <div><input type="checkbox"/> This is a gift <a href="#">Learn more</a> <a href="#">Delete</a>   <a href="#">Save for later</a></div>	<b>\$151.95</b>	<input type="text" value="3"/>

Subtotal (3 items): **\$455.85**

Subtotal (3 items): **\$455.85**

☐ This order contains a gift

Proceed to checkout

or

[Sign in](#) to turn on 1-Click ordering.

Estimate your shipping and tax

Order summary

Shipping to: [B. Phil Howell- LAUREL SPRINGS](#)

Items (3)	\$455.85
<a href="#">Estimated shipping &amp; handling</a>	FREE
Total before tax	\$455.85
Estimated tax to be collected	\$0.00
<b>Estimated order total</b>	<b>\$455.85</b>



## SALES QUOTATION

QUOTE NO.	ACCOUNT NO.	DATE
GXFN382	3128940	3/23/2016

**BILL TO:**  
COUNTY OF ASHE  
150 GOVERNMENT CIR STE 2500

**SHIP TO:**  
COUNTY OF ASHE  
Attention To: TODD CHAPMAN  
150 GOVERNMENT CIR STE 1400

Accounts Payable  
JEFFERSON , NC 28640-8967

JEFFERSON , NC 28640-9378  
Contact: TODD  
CHAPMAN 336.846.5780

Customer Phone #

Customer P.O. # 3RD QUOTE

## ACCOUNT MANAGER

JOE BARESE 866.819.6497

## SHIPPING METHOD

FEDEX Ground

## TERMS

Net 30 Days-Govt  
State/Local

## EXEMPTION CERTIFICATE

QTY	ITEM NO.	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
2	3926125	HP SB 470 I7-6500U 1TB 8GB W7/10P Mfg#: T6D90UT#ABA Contract: NC eProcurement System	952.60	1,905.20
2	3845327	HP SB 800 I5-6500 500GB 8GB W7/10P Mfg#: P4K16UT#ABA Contract: NC eProcurement System	819.94	1,639.88
2	2749521	HP USB 3.0 PORT REPLICATOR Mfg#: H1L08AA#ABA Contract: NC eProcurement System	221.44	442.88
2	2733469	LVO DISPLAYPORT/DUAL-DISPLAYPORT ADP Mfg#: 0B47092 Contract: NC eProcurement System	85.78	171.56
SUBTOTAL				4,159.52
FREIGHT				0.00
TAX				291.16

US Currency

**TOTAL** 4,450.68

CDW Government  
230 North Milwaukee Ave.  
Vernon Hills, IL 60061

Fax: 847.990.8027

**Please remit payment to:**

CDW Government  
75 Remittance Drive  
Suite 1515  
Chicago, IL 60675-1515



CDWG.com | 800.594.4239

OE400SPS

## SALES QUOTATION

QUOTE NO.	ACCOUNT NO.	DATE
GXFM795	3128940	3/23/2016

**BILL TO:**  
COUNTY OF ASHE  
150 GOVERNMENT CIR STE 2500

**SHIP TO:**  
COUNTY OF ASHE  
Attention To: TODD CHAPMAN  
150 GOVERNMENT CIR STE 1400

Accounts Payable  
JEFFERSON , NC 28640-8967

JEFFERSON , NC 28640-9378  
Contact: TODD  
CHAPMAN 336.846.5780

Customer Phone #

Customer P.O. # MONITORS QUOTE

## ACCOUNT MANAGER

JOE BARESE 866.819.6497

## SHIPPING METHOD

FEDEX Ground

## TERMS

Net 30 Days-Govt  
State/Local

## EXEMPTION CERTIFICATE

QTY	ITEM NO.	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
16	3770960	HP SB Z25N 25IN NARROW BEZEL IPS Mfg#: K7C01A8#ABA Contract: NC eProcurement System \$-26 instant rebate. Expires 2016-04-30	385.00	6,160.00
SUBTOTAL				6,160.00
FREIGHT				0.00
TAX				431.20

US Currency

**TOTAL** 6,591.20

CDW Government  
230 North Milwaukee Ave.  
Vernon Hills, IL 60061

Fax: 847.990.8027

**Please remit payment to:**

CDW Government  
75 Remittance Drive  
Suite 1515  
Chicago, IL 60675-1515



## SALES QUOTATION

QUOTE NO.	ACCOUNT NO.	DATE
HCXK250	3128940	6/6/2016

**BILL TO:**  
COUNTY OF ASHE  
150 GOVERNMENT CIR STE 2500

**SHIP TO:**  
COUNTY OF ASHE  
Attention To: TODD CHAPMAN  
150 GOVERNMENT CIR STE 1400

Accounts Payable  
JEFFERSON , NC 28640-8967

JEFFERSON , NC 28640-9378  
Contact: TODD  
CHAPMAN 336.846.5780

Customer Phone #

Customer P.O. # 2 SERVER QUOTE

## ACCOUNT MANAGER

JOE BARESE 866.819.6497

## SHIPPING METHOD

UPS Ground (2- 3 Day)

## TERMS

Net 30 Days-Govt  
State/Local

## EXEMPTION CERTIFICATE

QTY	ITEM NO.	DESCRIPTION	UNIT PRICE	EXTENDED PRICE
2	3466973	HP DL380 GEN9 E5-2620V3 1P 12LFF SRV Mfg#: 779559-S01 Contract: MARKET	2,650.00	5,300.00
8	3624538	HP 4TB SATA 6G 7.2K 3.5IN 512E HDD Mfg#: 765253-B21 Contract: MARKET	650.00	5,200.00
2	3178328	MS GSA WIN SRV STD 2012 R2 2PROC Mfg#: P73-06309 Contract: MARKET	604.46	1,208.92
14	4077241	Electronic distribution - NO MEDIA HP 16GB 1RX4 PC4-2400T-R KIT Mfg#: 805349-B21 Contract: MARKET	275.00	3,850.00
1	642303	TRIPP 1500VA UPS SMART 120V 2U RM XL Mfg#: SMART1500RML2UA Contract: MARKET	600.00	600.00
5	4148260	MS GSA SQL CAL 2016 UCAL Mfg#: 359-06368 Contract: MARKET	145.00	725.00
2	2669162	Electronic distribution - NO MEDIA MS GSA SQL SRV STD 2 CORE SA Mfg#: 7NQ-00301-3 Contract: MARKET Electronic distribution - NO MEDIA	1,842.00	3,684.00
SUBTOTAL				20,567.92
FREIGHT				0.00
TAX				1,439.75

US Currency

**TOTAL** 22,007.67

CDW Government  
230 North Milwaukee Ave.  
Vernon Hills, IL 60061

Fax: 847.990.8027

**Please remit payment to:**

CDW Government  
75 Remittance Drive  
Suite 1515  
Chicago, IL 60675-1515

**J and B Electric  
527 Fulton Reeves Rd  
Laurel Springs N.C. 28644**

Quote only

**Phone** 336-982-4251

**Date:** 4/21/16

**To:** Ashe County Communication

**Description:** Wring to new communication room including 100 amp feeder from main, 22kva generator and transfer switch, and 16 dedicated 20 amp circuits in communication room

**Labor:** \$ 3192.00

**Material:** \$ General Material \$ 1789.00

100 amp breaker

In service an link

Kit \$ 1194.00

Generator and *— Generac 06552 22kw*

Transfer switch \$ 5201.00

**Other:**

**Total:** \$ 11376.00

Thank You

Bobby Reed



# GENERAC®

## 16/20/22 kW

### GUARDIAN® SERIES Residential Standby Generators Air-Cooled Gas Engine

16/20/22 kW

1 of 5

#### INCLUDES:

- True Power™ Electrical Technology
- Two Line LCD Multilingual Digital Evolution™ Controller (English/Spanish/French/Portuguese)
- Two Transfer Switch Options Available:  
100 Amp Pre-Wired Switch or  
200 Amp Service Rated Switch.  
See Page 4 for Details.
- Electronic Governor
- External Main Circuit Breaker, System Status & Maintenance Interval LED Indicators
- GFCI Duplex Outlet
- Sound Attenuated Enclosure
- Flexible Fuel Line Connector
- Composite Mounting Pad
- Natural Gas or LP Gas Operation
- 5 Year Limited Warranty
- Capability to be installed within 18" (457 mm) of a building\*

#### Standby Power Rating

Models 006459-2, 006461-1, 006462-2 (Steel - Bisque) - 16 kW 60 Hz

Model 006721-1 (Aluminum - Gray) - 16 kW 60 Hz

Models 006729-2, 006730-1 (Steel - Bisque) - 20 kW 60 Hz

Models 006551-2, 006552-1 (Aluminum - Gray) - 22 kW 60 Hz



QUIET-TEST

Note: CUL certification only applies to unbundled units and units packaged with pre-wired switches. Units packaged with the Smart Switch are UL certified in the USA only.

\*Only if located away from doors, windows and fresh air intakes, and unless otherwise directed by local codes.

## FEATURES

- **INNOVATIVE DESIGN & PROTOTYPE TESTING** are key components of GENERAC'S success in "IMPROVING POWER BY DESIGN." But it doesn't stop there. Total commitment to component testing, reliability testing, environmental testing, destruction and life testing, plus testing to applicable CSA, NEMA, EGSA, and other standards, allows you to choose GENERAC POWER SYSTEMS with the confidence that these systems will provide superior performance.
- **TRUE POWER™ ELECTRICAL TECHNOLOGY:** Superior harmonics and sine wave form produce less than 5% Total Harmonic Distortion for utility quality power. This allows confident operation of sensitive electronic equipment and micro-chip based appliances, such as variable speed HVAC systems.
- **TEST CRITERIA:**
  - ✓ **PROTOTYPE TESTED**
  - ✓ **SYSTEM TORSIONAL TESTED**
  - ✓ **NEMA MG1-22 EVALUATION**
  - ✓ **MOTOR STARTING ABILITY**
- **SOLID-STATE, FREQUENCY COMPENSATED VOLTAGE REGULATION.** This state-of-the-art power maximizing regulation system is standard on all Generac models. It provides optimized FAST RESPONSE to changing load conditions and MAXIMUM MOTOR STARTING CAPABILITY by electronically torque-matching the surge loads to the engine. Digital voltage regulation at  $\pm 1\%$ .
- **SINGLE SOURCE SERVICE RESPONSE** from Generac's extensive dealer network provides parts and service know-how for the entire unit, from the engine to the smallest electronic component.
- **GENERAC TRANSFER SWITCHES.** Long life and reliability are synonymous with GENERAC POWER SYSTEMS. One reason for this confidence is that the GENERAC product line includes its own transfer systems and controls for total system compatibility.

THE GENERAC  
PROMISE



\* Built in the USA using domestic and foreign parts.



**16/20/22 kW****features and benefits****Engine**

- Generac (OHVI) design  
Maximizes engine "breathing" for increased fuel efficiency. Plateau honed cylinder walls and plasma moly rings helps the engine run cooler, reducing oil consumption resulting in longer engine life.
- Quiet-Test™  
Greatly reduces sound output and fuel consumption during bi-weekly exercise, compared to other brands.
- "Spiny-lok" cast iron cylinder walls  
Rigid construction and added durability provide long engine life.
- Electronic ignition/spark advance  
These features combine to assure smooth, quick starting every time.
- Full pressure lubrication system  
Pressurized lubrication to all vital bearings means better performance, less maintenance and longer engine life. Now featuring up to a 2 year/200 hour oil change interval.
- Low oil pressure shutdown system  
Shutdown protection prevents catastrophic engine damage due to low oil.
- High temperature shutdown  
Prevents damage due to overheating.

**Generator**

- Revolving field  
Allows for a smaller, light weight unit that operates 25% more efficiently than a revolving armature generator.
- Skewed stator  
Produces a smooth output waveform for compatibility with electronic equipment.
- Displaced phase excitation  
Maximizes motor starting capability.
- Automatic voltage regulation  
Regulates the output voltage to  $\pm 1\%$  prevents damaging voltage spikes.
- UL 2200 listed  
For your safety.

**Transfer Switch**

- Fully automatic  
Transfers your vital electrical loads to the energized source of power.
- Pre-wired, color-coded conduits (Pre-wired switches only)  
Ensures the easiest, trouble-free installation.
- Remote mounting  
Mounts near your existing distribution panel for simple, low-cost installation.

**Evolution™ Controls**

- Auto/Manual/Off illuminated buttons  
Selects the operating mode and provides easy, at-a-glance status indication in any condition.
- Two-line LCD multilingual display  
Provides homeowners easily visible logs of history, maintenance and events up to 50 occurrences.
- Sealed, raised buttons  
Smooth, weather-resistant user interface for programming and operations.
- Utility voltage sensing  
Constantly monitors utility voltage, setpoints 60% dropout, 80% pick-up, of standard voltage.
- Generator voltage sensing  
Constantly monitors generator voltage to ensure the cleanest power delivered to the home.
- Utility interrupt delay  
Prevents nuisance start-ups of the engine, adjustable 2-1500 seconds from the factory default setting of 5 seconds by a qualified dealer.
- Engine warm-up  
Ensures engine is ready to assume the load, setpoint approximately 5 seconds.
- Engine cool-down  
Allows engine to cool prior to shutdown, setpoint approximately 1 minute.
- Programmable exerciser  
Operates engine to prevent oil seal drying and damage between power outages by running the generator for 5 minutes every other week. Also offers a selectable setting for weekly or monthly operation providing flexibility and potentially lower fuel costs to the owner.
- Smart battery charger  
Delivers charge to the battery only when needed at varying rates depending on outdoor air temperature.
- Electronic governor  
Maintains constant 60 Hz frequency.

**Unit**

- SAE weather protective enclosure  
Sound attenuated enclosure ensures quiet operation and protection against mother nature, withstanding winds up to 150 mph. Hinged key locking roof panel for security. Lift-out front for easy access to all routine maintenance items. Electrostatically applied textured epoxy paint for added durability.
- Enclosed critical grade muffler  
Quiet, critical grade muffler is mounted inside the unit to prevent injuries.
- Small, compact, attractive  
Makes for an easy, eye appealing installation, as close as 18" away from a building.\*

**Installation System**

- 1 ft (305 mm) flexible fuel line connector  
Absorbs any generator vibration when connected to rigid pipe.
- Composite mounting pad  
Eliminates the need to pour a concrete pad unless required by local municipalities.



## 16/20/22 kW

## specifications

### Generator

Model	006459-2, 006461-1, 006462-2, 006721-1 (16 kW)	006729-2, 006730-1, (20 kW)	006551-2, 006552-1 (22 kW)
Rated Maximum Continuous Power Capacity (LP)	16,000 Watts*	20,000 Watts*	22,000 Watts*
Rated Maximum Continuous Power Capacity (NG)	16,000 Watts*	18,000 Watts*	19,500 Watts*
Rated Voltage	240	240	240
Rated Maximum Continuous Load Current – 240 Volts (LP/NG)	66.6/66.6	83.3/75	91.6/81.3
Total Harmonic Distortion	Less than 5%	Less than 5%	Less than 5%
Main Line Circuit Breaker	65 Amp	90 Amp	100 Amp
Phase	1	1	1
Number of Rotor Poles	2	2	2
Rated AC Frequency	60 Hz	60 Hz	60 Hz
Power Factor	1.0	1.0	1.0
Battery Requirement (not included)	Group 26R, 12 Volts and 525 CCA Minimum		
Unit Weight (lb/kg)	455/206.4 (Steel) 419/190 (Aluminum)	505/229	476/216
Dimensions (L x W x H) in/mm	48 x 25 x 29/1218 x 638 x 732		
Sound output in dB(A) at 23 ft (7 m) with generator operating at normal load**	66	66	67
Sound output in dB(A) at 23 ft (7 m) with generator in Quiet-Test™ low-speed exercise mode**	60	60	58
Exercise duration	5 min	5 min	5 min

### Engine

Type of Engine	GENERAC OHVI V-TWIN	GENERAC OHVI V-TWIN	GENERAC OHVI V-TWIN
Number of Cylinders	2	2	2
Displacement	992 cc	999 cc	999 cc
Cylinder Block		Aluminum w/ Cast Iron Sleeve	
Valve Arrangement	Overhead Valve	Overhead Valve	Overhead Valve
Ignition System	Solid-state w/ Magneto	Solid-state w/ Magneto	Solid-state w/ Magneto
Governor System	Electronic	Electronic	Electronic
Compression Ratio	9.5:1	9.5:1	9.5:1
Starter	12 Vdc	12 Vdc	12 Vdc
Oil Capacity Including Filter	Approx. 1.9 qt/1.8 L	Approx. 1.9 qt/1.8 L	Approx. 1.9 qt/1.8 L
Operating rpm	3,600	3,600	3,600
Fuel Consumption			
Natural Gas	ft <sup>3</sup> /hr (m <sup>3</sup> /hr)		
1/2 Load	193 (5.47)	205 (5.8)	184 (5.21)
Full Load	312 (8.83)	308 (8.72)	281 (7.96)
Liquid Propane	ft <sup>3</sup> /hr (gal/hr) [l/hr]		
1/2 Load	72.4 (1.9) [7.2]	75.6 (2.08) [7.87]	83 (2.16) [8.16]
Full Load	130 (3.19) [12.07]	140 (3.85) [14.57]	127 (3.68) [13.94]

Note: **Fuel pipe must be sized for full load.** Required fuel pressure to generator fuel inlet at all load ranges - 3.5-7" water column (7-13 mm mercury) for natural gas, 10-12" water column (19-22 mm mercury) for LP gas. For Btu content, multiply ft<sup>3</sup>/hr x 2500 (LP) or ft<sup>3</sup>/hr x 1000 (NG). For Megajoule content, multiply m<sup>3</sup>/hr x 93.15 (LP) or m<sup>3</sup>/hr x 37.26 (NG)

### Controls

2-Line Plain Text Multilingual LCD Display	Simple user interface for ease of operation.
Mode Buttons: Auto	Automatic Start on Utility failure. 7 day exerciser.
Manual	Start with starter control, unit stays on. If utility fails, transfer to load takes place.
Off	Stops unit. Power is removed. Control and charger still operate.
Ready to Run/Maintenance Messages	Standard
Engine Run Hours Indication	Standard
Programmable start delay between 2-1500 seconds	Standard (programmable by dealer only)
Utility Voltage Loss/Return to Utility Adjustable (Brownout Setting)	From 140-171 V/190-216 V
Future Set Capable Exerciser/Exercise Set Error Warning	Standard
Run/Alarm/Maintenance Logs	50 Events Each
Engine Start Sequence	Cyclic cranking: 16 sec on, 7 rest (90 sec maximum duration).
Starter Lock-out	Starter cannot re-engage until 5 sec after engine has stopped.
Smart Battery Charger	Standard
Charger Fault/Missing AC Warning	Standard
Low Battery/Battery Problem Protection and Battery Condition Indication	Standard
Automatic Voltage Regulation with Over and Under Voltage Protection	Standard
Under-Frequency/Overload/Stepper Overcurrent Protection	Standard
Safety Fused/Fuse Problem Protection	Standard
Automatic Low Oil Pressure/High Oil Temperature Shutdown	Standard
Overcrank/Overspeed (@ 72 Hz)/rpm Sense Loss Shutdown	Standard
High Engine Temperature Shutdown	Standard
Internal Fault/Incorrect Wiring Protection	Standard
Common External Fault Capability	Standard
Field Upgradable Firmware	Standard

\*\* Sound levels are taken from the front of the generator. Sound levels taken from other sides of the generator may be higher depending on installation parameters. Rating definitions - Standby: Applicable for supplying emergency power for the duration of the utility power outage. No overload capability is available for this rating. (All ratings in accordance with BSS514, ISO3046 and DIN6271). \* Maximum wattage and current are subject to and limited by such factors as fuel Btu/megajoule content, ambient temperature, altitude, engine power and condition, etc. Maximum power decreases about 3.5 percent for each 1,000 feet (304.8 meters) above sea level; and also will decrease about 1 percent for each 6 °C (10 °F) above 16 °C (60 °F).

## 16/20/22 kW

## switch options

## Pre-wired Features

available on Steel 16 kW models only

- Electrically operated, mechanically-held contacts for fast, positive connections.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- 2 pole, 250 VAC contactors.
- 30 millisecond transfer time.
- Dual coil design.
- Main contacts are silver plated or silver alloy to resist welding and sticking.
- NEMA 1 (indoor rated) enclosure is standard on the pre-wired switch.
- Multi listed for use with 1" standard, tandem, GFCI and AFCI breakers from Siemens, Murray, Eaton and Square D for the most flexible and cost effective install.
- Pre-wired 30 foot (9.1 meter) whip to connect to the provided 5 foot (1.5 meter) pre-wired whip and external connection box.
- Pre-wired 2 foot (0.61 meter) whip, color coded to connect into the existing electrical panel.

<b>Model</b>	<b>006461-1 (16 kW)</b>
No. of Poles	2
Current Rating (Amps)	100
Voltage Rating (VAC)	120/240, 1Ø
Utility Voltage Monitor (Fixed)*	
-Pick-up	80%
-Dropout	60%
Return to Utility*	approx. 15 sec.
Exercise bi-weekly for 12 minutes*	Standard
UL Listed	Standard
Total of Pre-wired Circuits	16
No. 15 A 120 V	5
No. 20 A 120 V	5
No. 20 A 240 V	1
No. 30 A 240 V	-
No. 40 A 240 V	1
No. 50 A 240 V	1
Tandem Breaker Capabilities	8 Tandems
Circuit Breaker Protected	
Available RMS Symmetrical	
Fault Current @ 250 Volts	10,000

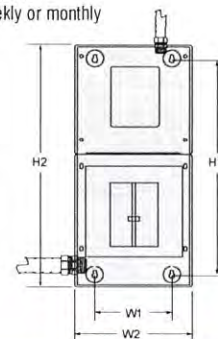
\*Function of Evolution Controller  
Exercise can be set to weekly or monthly

## Dimensions

Mechanical Dimensions					
	Height		Width		Depth
	H1	H2	W1	W2	
in	23.5	26.4	8.3	12.6	6.3
mm	597	671.7	211	320.7	159.6

Wire Ranges		
Conductor Lug	Neutral Lug	Ground Lug
2/0 - #14	2/0 - #14	2/0 - #14



## Service Rated Switch Features

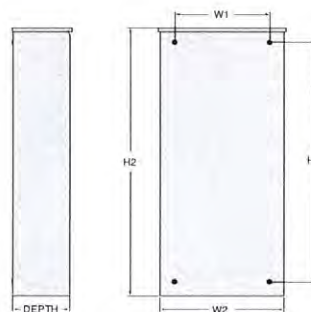
- Electrically operated, mechanically-held contacts for fast, clean connections.
- Rated for all classes of load, 100% equipment rated, both inductive and resistive.
- 2 pole, 250 VAC contactors.
- Service equipment rated, dual coil design.
- Rated for both aluminum and copper conductors.
- NEMA/UL 3R aluminum outdoor enclosure.
- Main contacts are silver plated or silver alloy to resist welding and sticking.

<b>Model</b>	<b>006462-2 (16 kW)/006729-2 (20 kW)/006551-2 (22 kW)</b>
No. of Poles	2
Current Rating (Amps)	200
Voltage Rating (VAC)	120/240, 1Ø
Utility Voltage Monitor (Fixed)*	
-Pick-up	80%
-Dropout	60%
Return to Utility*	approx. 13 sec.
Exercise weekly for 12 minutes*	Standard
UL Listed	Standard
Enclosure Type	NEMA/UL 3R
Withstand Rating (Amps)	22,000
Lug Range	250 MCM - #6

\*Function of Evolution Controller

## Dimensions

200 Amps 120/240, 1Ø Open Transition Service Rated					
	Height		Width		Depth
	H1	H2	W1	W2	
in	27.24	30.0	11.4	13.5	7.09
mm	692.0	762.4	289.0	343.0	180.0



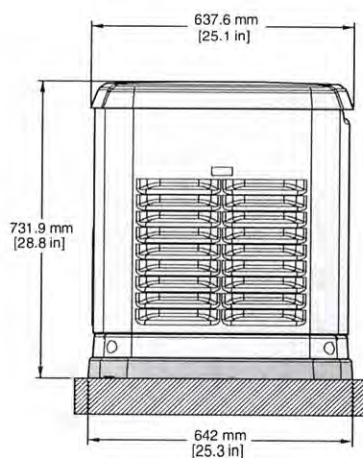


Model #	Product	Description
006463-3	Mobile Link™	Generac's Mobile Link allows you to check the status of your generator from anywhere that you have access to an Internet connection from a PC or with any smart device. You will even be notified when a change in the generator's status occurs via e-mail or text message. Available in the U.S. only.
005819-0	26R Wet Cell Battery	Every standby generator requires a battery to start the system. Generac offers the recommended 26R wet cell battery for use with all air-cooled standby product (excluding PowerPact®).
006212-0	Cold Weather Kit	If the temperature regularly falls below 32 °F (0 °C), a cold weather kit is required to maintain optimal battery and oil temperatures. Kit consists of a battery warmer and oil filter heater with built-in thermostats.
005621-0	Auxiliary Transfer Switch Contact Kit	The auxiliary transfer switch contact kit allows the transfer switch to lock out a single large electrical load you may not need. Not compatible with 50 amp pre-wired switches.
005839-0 - Bisque 005666-0 - Gray	Fascia Base Wrap Kit* (Standard on 22 kW)	The fascia base wrap snaps together around the bottom of the new air cooled generators. This offers a sleek, contoured appearance as well as offering protection from rodents and insects by covering the lifting holes located in the base.
005703-0 - Bisque 005704-0 - Gray	Paint Kit*	If the generator enclosure is scratched or damaged, it is important to touch-up the paint to protect from future corrosion. The paint kit includes the necessary paint to properly maintain or touch-up a generator enclosure.
006484-0 - 16 kW 006485-0 - 20 & 22 kW	Scheduled Maintenance Kit	Generac's scheduled maintenance kits provide all the hardware necessary to perform complete routine maintenance on a Generac automatic standby generator.
006664-0	Wireless Remote Monitor	Completely wireless and battery powered, Generac's wireless remote monitor provides you with instant status information without ever leaving the house. Not compatible with CorePower or EcoGen systems.
006873-0	Smart Management Module (50 Amps)	Smart Management Modules are used in conjunction with the Automatic Transfer Switch to increase its power management capabilities. It provides additional power management flexibility not found in any other power management system.

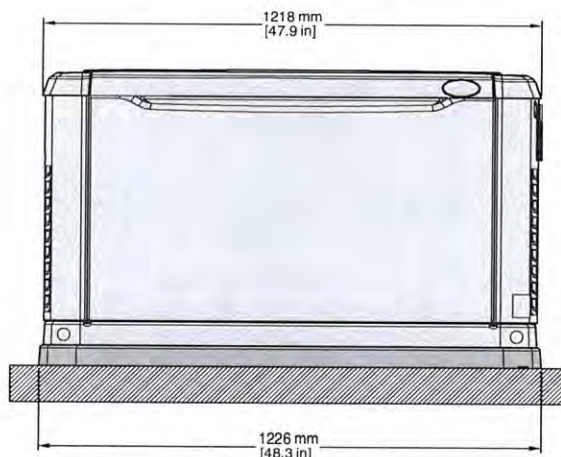
\* Note: Bisque kits are used in conjunction with steel enclosures. Gray kits are used in conjunction with aluminum enclosures.

## dimensions & UPCs

Dimensions shown are approximate. Refer to installation manual for exact dimensions. DO NOT USE THESE DIMENSIONS FOR INSTALLATION PURPOSES.



LEFT SIDE VIEW



FRONT VIEW

Model	UPC
006459-2	696471064599
006461-1	696471064612
006721-1	696471067217
006729-2	696471067293
006730-1	696471067309
006551-2	696471065510
006552-1	696471065527
006462-2	696471064629

**MOTOROLA****MOTOROLA SOLUTIONS, INC.**1301 E. Algonquin Road  
Schaumburg, IL 60196Visit our website at [www.motorolasolutions.com](http://www.motorolasolutions.com)**INVOICE**

Page 1 of 2

**TOTAL INVOICE AMOUNT:** \$9,294.64**MOTOROLA INVOICE NUMBER:** 50105379**INVOICE DATE:** 02/22/2016**PAYMENT DUE:** 03/23/2016**CUSTOMER ACCOUNT NUMBER:** 1035338806 0001**PURCHASE ORDER DATE:****YOUR PURCHASE ORDER NUMBER:****BILL TO** ASHE COUNTY SHERIFF DEPT  
ATTN: CAROLYN GENTRY  
PO BOX 395  
JEFFERSON, NC 28640For questions concerning this Invoice please contact  
Motorola at:

00010-00007-00006

Payment Terms: NET 30 INVOICE

Sales Order Number: S00001022987

Motorola Solutions, Inc. Federal Tax Id: 36-1115800

**Invoice Detail**

Item	Model Number	Qty	Description	Unit Price	Amount
BILLING FOR YOUR SERVICE AGREEMENT					
SERVICE PERIOD FROM 09-FEB-16 TO 08-MAR-16					
MOTOROLA CONTRACT # S00001022987					
SERVICES CONTRACTED:					
2		1	SVC01SVC2007C SP - ONSITE INFRASTRUCTURE DISPATCH	1,813.56	1,813.56
3		1	SVC01SVC2011C SP - ASTRO DISPATCH SERVICES	71.33	71.33
4		1	SVC02SVC0362A SP - 911 LOCATION DATA MGMT -INTRADO	4,338.94	4,338.94
5		1	SVC02SVC0363A SP-911 ROUTING SVC - INTRADO	3,070.81	3,070.81

This bill includes state &amp; local Taxes of \$608.06

Motorola 911 Routing Service, Motorola 911 Data Location Service, and Motorola 911 Text Services are all provided by Intrado Communications Inc., 1601

(Continued on Next Page)

Detach here and return bottom portion with your payment

INVOICE NUMBER	CUSTOMER ACCOUNT NUMBER	PAYMENT DUE
50105379	1035338806 0001	03/23/2016

**Payment Coupon**

Invoice Total	Amount Paid
\$9,294.64	

Please put your Invoice Number and your Customer Account Number on your check for prompt processingASHE COUNTY SHERIFF DEPT  
ATTN: CAROLYN GENTRY  
PO BOX 395  
JEFFERSON, NC 28640

Send Payment To:

**MOTOROLA****MOTOROLA SOLUTIONS, INC.**

P.O. Box 404059

Atlanta, GA 30384-4059



**MOTOROLA**

**MOTOROLA SOLUTIONS, INC.**

1301 E. Algonquin Road  
Schaumburg, IL 60196

Visit our website at :[www.motorolasolutions.com](http://www.motorolasolutions.com)

# INVOICE

Page 2 of 2

**TOTAL INVOICE AMOUNT:** \$9,294.64

**MOTOROLA INVOICE NUMBER:** 50105379

**INVOICE DATE:** 02/22/2016

**PAYMENT DUE:** 03/23/2016

**CUSTOMER ACCOUNT NUMBER:** 1035338806 0001

**PURCHASE ORDER DATE:**

**YOUR PURCHASE ORDER NUMBER:**

**BILL TO** ASHE COUNTY SHERIFF DEPT  
ATTN: CAROLYN GENTRY  
PO BOX 395  
JEFFERSON, NC 28640

00011-00007-00006

Payment Terms: NET 30 INVOICE

Sales Order Number: S00001022987

For questions concerning this Invoice please contact  
Motorola at:

Motorola Solutions, Inc. Federal Tax Id: 36-1115800

## Invoice Detail Continued

Item	Model Number	Qty	Description	Unit Price	Amount
			Dry Creek Drive, Longmont, CO 80503-6493		
			THANK YOU FOR CHOOSING MOTOROLA SOLUTIONS		
			PLEASE PAY THIS AMOUNT (PAYMENT DUE: 03/23/2016)		9,294.64

## Re: Quote

Jamie Asch <jamie@officedesigns.com>

Thu 3/24/2016 1:39 PM

To: P. Howell <PHowell@asheso.com>;

Hi Phil,

Please see below pricing and configuration for items we discussed.

Note that we include free shipping and no tax and guarantee the lowest price of any authorized retailer.

Please contact me with further questions or to place an order.

Thanks,

Jamie

### [Aeron Work Stool](#)

SKU: 1012100104110182439

arm type : Fully Adjustable Arms - Height & Pivot  
Model : ADJUSTABLE - Rear Tilt Lock & Forward Tilt Adjustment  
base and frame finish : Graphite  
Armpad Finish : Black Vinyl  
Casters - Glides : Standard Carpet Casters  
Color : Classic Carbon  
Lumbar : Adjustable Lumbar Support  
Size : High Height Stool  
Regular Price \$1449  
Your Price \$1299

### [SPACE Matrex Executive Chair](#)

SKU: 1122100102111001779

Seat Color : Colored Mesh - Black  
Regular Price \$499  
Your Price \$474

### Aeron Back Bolts

FB1011100143110000294  
\$16

Jamie Asch  
Sales Manager

722 Landwehr Road  
Northbrook, Illinois 60062  
Direct: [847.504.1718](tel:847.504.1718)  
[jamie@officedesigns.com](mailto:jamie@officedesigns.com)  
[jamie@sit4life.com](mailto:jamie@sit4life.com)

-----

On Thu, Mar 24, 2016 at 10:13 AM, P. Howell <[PHowell@asheso.com](mailto:PHowell@asheso.com)> wrote:

Hey Jamie,



For now, lemme get a quote without the fixed chair.

Thanks,

B. Phil Howell

Director of Communications

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BA of Science - North Carolina State University

Advanced Law Enforcement Certification

Specialized Firearms & General Instructor Certification

Sheriff's Emergency Response Team

NC Concealed Carry Instructor

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office: [\(336\) 846-5624](tel:3368465624) | mobile: [\(336\) 620-6988](tel:3366206988)

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Ashe County Sheriff's Office | [www.AsheCountySheriff.com](http://www.AsheCountySheriff.com)

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From: Jamie Asch <[jamie@officedesigns.com](mailto:jamie@officedesigns.com)>

Sent: Wednesday, March 23, 2016 10:25 AM

To: P. Howell

Subject: Re: Quote

Hi Phil,

Thanks for the email and the continued opportunity.

Please provide exact specs for Aeron stool so I can give you an accurate quote.

Best,

Jamie

Jamie Asch

Sales Manager

722 Landwehr Road

Northbrook, Illinois 60062

Direct: [847.504.1718](tel:8475041718)

[jamie@officedesigns.com](mailto:jamie@officedesigns.com)

[jamie@sit4life.com](mailto:jamie@sit4life.com)

-----

On Tue, Mar 22, 2016 at 1:50 PM, P. Howell <[PHowell@asheso.com](mailto:PHowell@asheso.com)> wrote:

Can I get a quote for three chairs:

Aeron Work Stool - Herman Miller - SKU# 26 with arms and lumber support, size B

SPACE Matrex Executive Chair - SKU #409

We have a chair that has fallen apart and the bolts are missing for the back rest. I believe it takes 4 bolts and its for the Aeron Chair sku:21 and it holds the back to the boom. Is there any way we can get the four bolts added as well?

Thanks,

B. Phil Howell

Director of Communications

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BA of Science - North Carolina State University

Advanced Law Enforcement Certification

Specialized Firearms & General Instructor Certification

Sheriff's Emergency Response Team

NC Concealed Carry Instructor

-----

office: [\(336\) 846-5624](tel:(336)846-5624) | mobile: [\(336\) 620-6988](tel:(336)620-6988)

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Ashe County Sheriff's Office | [www.AsheCountySheriff.com](http://www.AsheCountySheriff.com)

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Pursuant to North Carolina General Statutes Chapter 132, Public Records, this electronic mail message and any attachments hereto, as well as any electronic mail message(s) that might be sent in response to it may be considered public record and as such are subject to request and review by, and disclosure to, third parties.

Pursuant to North Carolina General Statutes Chapter 132, Public Records, this electronic mail message and any attachments hereto, as well as any electronic mail message(s) that might be sent in response to it may be considered public record and as such are subject to request and review by, and disclosure to, third parties.

Date: 5/11/2016



Attn: Accounting Department  
110 South Regent Street, Suite 500  
Salt Lake City, UT 84111  
(801) 363-9127 \* (801) 363-9144 fax  
(800) 363-9127 toll-free

# INVOICE

No. 128736

Customer Id: 8604

Bill To: Ashe County Sheriffs Office  
140 Government Circle  
Jefferson, NC 28640

For: Ashe County Sheriffs Office  
140 Government Circle  
Jefferson, NC 28640

Phone: Fax: 336-219-2616

Sales Contact:  
Payment Method: Purchase Order

Base license: 00000B03B9  
Payment Terms: Net 30 Days

Qty	Description	Unit Price	Extended Price
1	Maintenance Agreement For Annual AQUA ESP (Medical - North American English) Date of ESP Renewal Expiration: Jun 14 2017 12:00AM	\$645.00	\$645.00
1	Maintenance Agreement For Annual Cardset ESP (Fire - North American English) Date of ESP Renewal Expiration: Jun 14 2017 12:00AM	\$147.00	\$147.00
1	Maintenance Agreement For Annual Cardset ESP (Medical - North American English) Date of ESP Renewal Expiration: Jun 14 2017 12:00AM	\$147.00	\$147.00
1	Maintenance Agreement For Annual Cardset ESP (Police - North American English) Date of ESP Renewal Expiration: Jun 14 2017 12:00AM	\$147.00	\$147.00
1	Maintenance Agreement For Annual ProQA ESP (Medical - North American English) Date of ESP Renewal Expiration: Jun 14 2017 12:00AM	\$5,085.00	\$5,085.00
Payment of this invoice for the Extended Service Plan (ESP), as per the license agreement, extends the licensed use of the system for a period of 12 months. It also ensures that any updates within the current version will automatically be sent to licensed users or made available for download. Non-payment of this invoice for ESP is a violation of the license agreement and may result in the forfeiture of PDS licenses.			
Sub-Total:			\$6,171.00
Tax:			\$0.00
Shipping & Handling:			\$0.00
Total:			\$6,171.00
Amount due this Invoice:			\$6,171.00

Please pay this invoice in US Dollars. Make checks payable to Priority Dispatch Corporation.

*"To lead the creation of meaningful change in public safety and health."*



## Sales Quote #129202

by Tim Martin

Date 5/26/2016

110 South Regent Street, Suite 500  
Salt Lake City, UT 84111  
(801) 363-9127 \* (801) 363-9144 fax  
(800) 363-9127 toll-free

Bill To: Ashe County Sheriffs Office  
Attn: Phil Howell  
140 Government Circle  
Jefferson, NC 28640

Ship To: Ashe County Sheriffs Office  
Attn: Phil Howell  
140 Government Circle  
Jefferson, NC 28640

For: Ashe County Sheriffs Office  
Attn: Phil Howell  
140 Government Circle  
Jefferson, NC 28640

Phone: 336-846-5624 Fax: 336-219-2616

Qty	Description	Unit Price	Extended Price
1	ProQA Software Licenses (Medical - Paramount - Standard - North American English) Automated calltaking software	\$3,750.00	\$3,750.00
1	ProQA Software Licenses (Fire - Paramount - Standard - North American English) Automated calltaking software	\$3,750.00	\$3,750.00
1	ProQA Software Licenses (Police - Paramount - Standard - North American English) Automated calltaking software	\$3,750.00	\$3,750.00
1	Annual Maintenance - Basic Package (ESP) for ProQA Software (North American English) License renewal, service and support	\$1,687.50	\$1,687.50
Sub-Total:			\$12,937.50
Tax:			\$0.00
Shipping & Handling:			\$0.00
Total:			\$12,937.50

This quote is valid for 120 days from date of issue. Unless otherwise agreed to in writing, all prices quoted are exclusive of any applicable sales, use, withholding and other taxes, duties, or government assessments relating to this transaction, which are the sole obligation of Buyer. Payment terms are Net 30 unless otherwise noted.

Seller will use reasonable efforts to deliver products on time, but will not be liable for any expenses or damages incurred as a result of late delivery or for circumstances beyond Seller's reasonable control. Shipments are made F.O.B. origin, which is Salt Lake City, UT, USA. All insurance expenses and risk of loss are assumed by Buyer.

Purchasing or signing below acknowledges your agreement to the terms above and to the "break the seal" or "click to accept" license agreement associated with the licensed product(s). The license agreement is included with the licensed product(s) and you will have the opportunity to read it before opening or installing. If unacceptable, you may return the licensed product(s) within 10 days of receipt for a refund, less any applicable restocking fees and original shipping charges.

Sign here ☒ \_\_\_\_\_ Date \_\_\_\_\_

Payment Method: (Check enclosed, or...)

☐ Purchase Order # \_\_\_\_\_

☐ VISA/MasterCard/AMEX # \_\_\_\_\_

Expiration: \_\_\_\_\_

*"To lead the creation of meaningful change in public safety and health."*



Agency: **Ashe County Sheriff, NC**

Contact: **Phil Howell**

Date: **3/22/2016**

**11-20 Devices**

## **SOFTWARE (ANNUAL SUBSCRIPTION)**

**PSAware for up to 11-20 Devices**

1 Year

\$3,750.00

**TOTAL INVESTMENT** (STATE TAX AND SHIPPING NOT INCLUDED)

**\$3,750.00**

**CUSTOMER'S SIGNATURE** \_\_\_\_\_ **DATE** \_\_\_\_\_

Please sign this document and return it to us by fax or mail. When the document is signed and returned to Southern Software, we will begin processing your order.

Proposal of software is valid for (60) days from date of proposal.

Proposal of hardware is valid for (30) days from date of proposal.

Management fees include training, installation, and project management.

Southern Software will install its software products only on computer configurations compatible with these products. Hardware specifications are available upon request.

### ***Contact information for Public Safety Representative:***

**Mike Moody**  
**Southern Software**  
**150 Perry Drive**  
**Southern Pines, NC 28387**

**Business:** 800.842.8190  
**Mobile:** 910.603.3481  
**Fax:** 910.695.0251  
**E-Mail:** mmooddy@southernsoftware.com



**Agency:** Ashe County, NC

**Contact:** Phil Howell

**Date:** 3/23/2016

## CAD SOFTWARE

Qty

**CAD with MDS - Additional Positions**

2

FREE FOR EOC

ASSUMES ASSISTANCE WITH REMOTE INSTALLATION. IF ONSITE INSTALLATION IS REQUIRED THERE WILL BE ADDITIONAL CHARGES.

**TOTAL INVESTMENT** (STATE TAX AND SHIPPING NOT INCLUDED)

**\$0.00**

**CUSTOMER'S SIGNATURE** \_\_\_\_\_ **DATE** \_\_\_\_\_

**Please sign this document and return it to us by fax or mail. When the document is signed and returned to Southern Software, we will begin processing your order.**

**NOTE: MICROSOFT® SQL SERVER 2008 R2™ IS REQUIRED.**

Southern Software will install its software products only on computer configurations compatible with these products. Hardware specifications are available upon request.

### ***Contact information for Public Safety Representative:***

**Mike Moody**

**Southern Software**

**150 Perry Drive**

**Southern Pines, NC 28387**

**Business: 800.842.8190**

**Mobile: 910.603.3481**

**Fax: 910.695.0251**

**E-Mail: [mmoody@southernsoftware.com](mailto:mmoody@southernsoftware.com)**

# **SOUTHERN SOFTWARE'S ANNUAL SOFTWARE SUPPORT AGREEMENT CAD™ 24/7**

**Southern Software's CAD™ Computer Aided Dispatch.** This Software Support Agreement covers 24 hours a day, seven days a week support.

## **Problem Resolution**

Southern Software will provide customer software support for mission critical operation of **CAD™**, 24 hours a day, seven days a week. This period includes holidays and weekends. This Agreement does not constitute a warranty but provides for mission critical problem resolutions at any time and non-mission critical problem resolutions of repeatable errors during normal business hours, EST. Southern Software cannot warrant the product will operate free of problems in perpetuity. Southern Software does not warrant third party software applications used in programs provided to customers, i.e., Microsoft® Word. The purpose of this Agreement is to provide the necessary technical assistance to ensure a timely problem resolution and to minimize down time. This Agreement is not intended to provide around-the-clock assistance for problems not deemed to be operation critical. Mission critical is defined as "any problem that renders the entire system unstable or inoperable".

For problems covered under this Agreement, Southern Software will provide the following:

- Telephone response within three hours of notification of the problem from 8:30 a.m. to 5:00 p.m., EST, Monday thru Friday. During this initial response, support personnel will determine the nature of the problem and severity. An attempt to resolve the problem will be made by giving instructions to the customer. Any problem deemed mission critical will take top priority over all other calls.
- Telephone response within one hour of notification of the problem after 5:00 p.m., EST and during holidays that fall on a normal work day. During this initial response, support personnel will determine the nature of the problem and severity. An attempt to resolve the problem will be made by giving instructions to the customer.
- If this is unsuccessful or the severity too great, then Southern Software will escalate to a Level 2 response. A Level 2 response involves a support technician connecting remotely to the customer's network using industry standard secure remote diagnostic methods to attempt to resolve the problem.
- If the problem is unable to be detected or resolved with a Level 2 response then a technician will be scheduled for an on-site visit. There is no cost to the customer for the on-site visit as long as the problem is with a Southern Software product or equipment covered by a Southern Software support contract and as long as the problem is not due to a virus or negligent actions/treatment

The user understands support staff may provide a temporary fix. A permanent fix will be provided at a later date.

## Program Updates

Southern Software will provide program updates to support customers as new updates, fixes and features are added. Updates will be made universally to all supported customers at one time. No custom programming will be performed.

## Third Party

If, at any time, an update of a third party's software is required, Southern Software will not incur the cost of such upgrade.

## System Administrator

The customer agrees to have a designated administrator (primary contact for support and update issues). It is highly desirable that the administrator be knowledgeable in networking and Windows® operating systems.

## Data Backup Statement

The customer understands that it is the customer's responsibility to ensure data backups are being made daily and verified for accuracy.

## Virus Statement

The customer agrees to have virus protection software loaded on each machine and agrees to update it weekly. (Southern Software recommends updating your virus protection software on each machine daily.) This support contract does not cover assistance in the recovery of damage caused by viruses. **Southern Software will charge a fee for virus recovery assistance.**

### **Items not covered under this annual support agreement -**

- **Installation and setup of new equipment.**
- **Transferring of data.**
- **Moving equipment from one site to another.**
- **On-site installation/reinstallation of Southern Software products or installation/reinstallation of third party software/products.**
- **Virus damage/recovery repair work.**
- **Recovery/repair work related to natural disasters such as lightning, floods, etc..**
- **Replacement of equipment that is out of warranty.**
- **Cost of upgrades to third party software including but not limited to Microsoft™ products (ie. Office, SQL, etc.), Anti-virus software, PcAnywhere™, etc. or cost of updates to operating systems.**
- **Data Conversions.**
- **On-site Training.**
- **Interfaces with third party products.**
- **Data loss due to drive crashes, machine failures, etc.**



- **Installation, Training and Data Conversions due to Re-architecture of Software.**

### **Benefits**

- The Software Support Agreement only covers software developed by Southern Software.
- Toll-free telephone support, seven days a week, 24 hours a day including holidays.
- 24-hour fax availability
- Software Updates
- Remote System Support
- Annual User's Conference
- Free hardware/network assessments for upgrades.
- Free follow-up/new employee training at Southern Software's office.
- Free web training.

### **System Access/Customer Responsibility**

The customer agrees to provide a dedicated computer capable of remote access for support purposes. The computer designated for remote connectivity shall allow access to all computers on the network requiring support.

**This Annual Software Support Agreement provides coverage that begins July 1, 2016 and ends June 30, 2017 .**

**Annual Support: \$9,455.00**

By signing this document you are confirming that you have read and understand the terms and conditions of this annual support agreement.

### ***Important- Support Renewal Clause***

*A lapse in support renewal will require that all outstanding support balances be paid in full prior to reinstatement of support. Support fees are non-refundable.*

\_\_\_\_\_  
Customer Representative Signature

\_\_\_\_\_  
Date

**ASHE COUNTY SHERIFF (CAD), NC**

Name of Department

NOTE: IF A PURCHASE ORDER NUMBER IS REQUIRED ON THE SUPPORT INVOICE PLEASE ENTER HERE \_\_\_\_\_. IF THE NUMBER IS NOT AVAILABLE AT THIS TIME, PLEASE FAX THE PURCHASE ORDER TO (910)695-0251 WHEN IT IS AVAILABLE.

# **SOUTHERN SOFTWARE'S ANNUAL SOFTWARE SUPPORT AGREEMENT MDIS (Mobile-Pak) 24/7**

**Southern Software's MDIS Mobile Data Information System.** This Software Support Agreement covers 24 hours a day, seven days a week support.

## **Problem Resolution**

Southern Software will provide customer software support for mission critical operation of **MDIS**, 24 hours a day, seven days a week. This period includes holidays and weekends. This Agreement does not constitute a warranty but provides for mission critical problem resolutions at any time and non-mission critical problem resolutions of repeatable errors during normal business hours, EST. Southern Software cannot warrant the product will operate free of problems in perpetuity. Southern Software does not warrant third party software applications used in programs provided to customers, i.e., Microsoft® Word. The purpose of this Agreement is to provide the necessary technical assistance to ensure a timely problem resolution and to minimize down time. This Agreement is not intended to provide around-the-clock assistance for problems not deemed to be operation critical. Mission critical is defined as "any problem that renders the entire system unstable or inoperable".

For problems covered under this Agreement, Southern Software will provide the following:

- Telephone response within three hours of notification of the problem from 8:30 a.m. to 5:00 p.m., EST, Monday thru Friday. During this initial response, support personnel will determine the nature of the problem and severity. An attempt to resolve the problem will be made by giving instructions to the customer. Any problem deemed mission critical will take top priority over all other calls.
- Telephone response within one hour of notification of the problem after 5:00 p.m., EST and during holidays that fall on a normal work day. During this initial response, support personnel will determine the nature of the problem and severity. An attempt to resolve the problem will be made by giving instructions to the customer.
- If this is unsuccessful or the severity too great, then Southern Software will escalate to a Level 2 response. A Level 2 response involves a support technician connecting remotely to the customer's network using industry standard secure remote diagnostic methods to attempt to resolve the problem.
- If the problem is unable to be detected or resolved with a Level 2 response then a technician will be scheduled for an on-site visit. There is no cost to the customer for the on-site visit as long as the problem is with a Southern Software product or equipment covered by a Southern Software support contract and as long as the problem is not due to a virus or negligent actions/treatment

The user understands support staff may provide a temporary fix. A permanent fix will be provided at a later date.

## **Program Updates**

Southern Software will provide program updates to support customers as new updates, fixes and features are added. Updates will be made universally to all supported customers at one time. No custom programming will be performed.

## Third Party

If, at any time, an update of a third party's software is required, Southern Software will not incur the cost of such upgrade.

## System Administrator

The customer agrees to have a designated administrator (primary contact for support and update issues). It is highly desirable that the administrator be knowledgeable in networking and Windows® operating systems.

## Data Backup Statement

The customer understands that it is the customer's responsibility to ensure data backups are being made daily and verified for accuracy.

## Virus Statement

The customer agrees to have virus protection software loaded on each machine and agrees to update it weekly. (Southern Software recommends updating your virus protection software on each machine daily.) This support contract does not cover assistance in the recovery of damage caused by viruses.

**Southern Software will charge a fee for virus recovery assistance.**

## **Items not covered under this annual support agreement -**

- **Installation and setup of new equipment.**
- **Transferring of data.**
- **Moving equipment from one site to another.**
- **On-site installation/reinstallation of Southern Software products or installation/reinstallation of third party software/products.**
- **Virus damage/recovery repair work.**
- **Recovery/repair work related to natural disasters such as lightning, floods, etc..**
- **Replacement of equipment that is out of warranty.**
- **Cost of upgrades to third party software including but not limited to Microsoft™ products (ie. Office, SQL, etc.), Anti-virus software, PcAnywhere™, etc. or cost of updates to operating systems.**
- **Data Conversions.**
- **On-site Training.**
- **Interfaces with third party products.**
- **Data loss due to drive crashes, machine failures, etc.**
- **Installation, Training and Data Conversions due to Re-architecture of Software.**

## **Benefits**

- The Software Support Agreement only covers software developed by Southern Software.
- Toll-free telephone support, seven days a week, 24 hours a day including holidays.
- 24-hour fax availability
- Software Updates
- Remote System Support
- Annual User's Conference
- Free hardware/network assessments for upgrades.
- Free follow-up/new employee training at Southern Software's office.
- Free web training.

## **System Access/Customer Responsibility**

The customer agrees to provide a dedicated computer capable of remote access for support purposes. The computer designated for remote connectivity shall allow access to all computers on the network requiring support.

**This Annual Software Support Agreement provides coverage that begins July 2, 2016 and ends July 1, 2017.**

**Annual Support: \$3,891.00**

By signing this document you are confirming that you have read and understand the terms and conditions of this annual support agreement.

## ***Important- Support Renewal Clause***

*A lapse in support renewal will require that all outstanding support balances be paid in full prior to reinstatement of support. Support fees are non-refundable.*

\_\_\_\_\_  
Customer Representative Signature

\_\_\_\_\_  
Date

**ASHE COUNTY SHERIFF (MDIS), NC**

Name of Department

NOTE: IF A PURCHASE ORDER NUMBER IS REQUIRED ON THE SUPPORT INVOICE PLEASE ENTER HERE \_\_\_\_\_. IF THE NUMBER IS NOT AVAILABLE AT THIS TIME, PLEASE FAX THE PURCHASE ORDER TO (910)695-0251 WHEN IT IS AVAILABLE.

# **SOUTHERN SOFTWARE'S ANNUAL SOFTWARE SUPPORT AGREEMENT MAPPING SOFTWARE 24/7**

This Software Support Agreement covers support 24 hours a day, seven days a week.

## **Problem Resolution**

Southern Software will provide customer software support for mission critical operation of the mapping software 24 hours a day, seven days a week. This Agreement does not constitute a warranty but provides for mission critical problem resolutions and non-mission critical problem resolutions of repeatable errors during normal business hours, EST. Southern Software cannot warrant the product will operate free of problems in perpetuity. Southern Software does not warrant third party software applications used in programs provided to customers, i.e., Microsoft® Word. The purpose of this Agreement is to provide the necessary technical assistance to ensure a timely problem resolution and to minimize down time. Mission critical is defined as "any problem that renders the entire system unstable or inoperable".

For problems covered under this Agreement, Southern Software will provide the following:

- Telephone response within three hours of notification of the problem from 8:30 a.m. to 5:00 p.m., EST, Monday thru Friday. During this initial response, support personnel will determine the nature of the problem and severity. An attempt to resolve the problem will be made by giving instructions to the customer.
- Telephone response within one hour of notification of the problem after 5:00 p.m., EST and during holidays that fall on a normal work day. During this initial response, support personnel will determine the nature of the problem and severity. An attempt to resolve the problem will be made by giving instructions to the customer.
- If this is unsuccessful or the severity too great, then Southern Software will escalate to a Level 2 response. A Level 2 response involves a support technician connecting remotely to the customer's network using industry standard secure remote diagnostic methods to attempt to resolve the problem.
- If the problem is unable to be detected or resolved with a Level 2 response then a technician will be scheduled for an on-site visit. There is no cost to the customer for the on-site visit as long as the problem is with a Southern Software product or equipment covered by a Southern Software support contract and as long as the problem is not due to a virus or negligent actions/treatment

The user understands support staff may provide a temporary fix. A permanent fix will be provided at a later date.

## **Program Updates**

Southern Software will provide program updates to support customers as new updates, fixes and features are added. Updates will be made universally to all supported customers at one time. No custom programming will be performed.

## Third Party

If, at any time, an update of a third party's software is required, Southern Software will not incur the cost of such upgrade.

## System Administrator

The customer agrees to have a designated administrator (primary contact for support and update issues). It is highly desirable that the administrator be knowledgeable in networking and Windows® operating systems.

## Data Backup Statement

The customer understands that it is the customer's responsibility to ensure data backups are being made daily and verified for accuracy.

## Virus Statement

The customer agrees to have virus protection software loaded on each machine and agrees to update it weekly. (Southern Software recommends updating your virus protection software on each machine daily.) This support contract does not cover assistance in the recovery of damage caused by viruses. **Southern Software will charge a fee for virus recovery assistance.**

## **Items not covered under this annual support agreement -**

- Installation and setup of new equipment.
- Transferring of data.
- Moving equipment from one site to another.
- On-site installation/reinstallation of Southern Software products or installation/reinstallation of third party software/products.
- Virus damage/recovery repair work.
- Recovery/repair work related to natural disasters such as lightning, floods, etc..
- Replacement of equipment that is out of warranty.
- Cost of upgrades to third party software including but not limited to Microsoft™ products (ie. Office, SQL, etc.), Anti-virus software, PcAnywhere™, etc. or cost of updates to operating systems.
- Data Conversions.
- On-site Training.
- Interfaces with third party products.
- Data loss due to drive crashes, machine failures, etc.
- Installation, Training and Data Conversion due to Re-architecture of Software.

### **Benefits**

- The Software Support Agreement only covers software developed by Southern Software.
- Toll-free telephone support, seven days a week, 24 hours a day including holidays.
- 24-hour fax availability
- Software Updates
- Remote System Support
- Annual User's Conference
- Free hardware/network assessments for upgrades.
- Free follow-up/new employee training at Southern Software's office.
- Free web training.

### **System Access/Customer Responsibility**

The customer agrees to provide a dedicated telephone line capable of remote access to a designated computer. The computer designated for remote connectivity shall allow access to all computers on the network.

**This Annual Software Support Agreement provides coverage that begins July 1, 2016 and ends June 30, 2017.**

**Annual Support: \$3,903.00**

By signing this document you are confirming that you have read and understand the terms and conditions of this annual support agreement.

### ***Important- Support Renewal Clause***

*A lapse in support renewal will require that all outstanding support balances be paid in full prior to reinstatement of support. Support fees are non-refundable.*

\_\_\_\_\_  
Customer Representative Signature

\_\_\_\_\_  
Date

### **ASHE COUNTY SHERIFF (MDS), NC**

Name of Department

NOTE: IF A PURCHASE ORDER NUMBER IS REQUIRED ON THE SUPPORT INVOICE PLEASE ENTER HERE \_\_\_\_\_. IF THE NUMBER IS NOT AVAILABLE AT THIS TIME, PLEASE FAX THE PURCHASE ORDER TO (910)695-0251 WHEN IT IS AVAILABLE.



**SOUTHERN SOFTWARE'S  
ANNUAL SOFTWARE SUPPORT AGREEMENT  
NCIC INTERFACE  
8:30 a.m., EST to 5:00 p.m., EST**

**NCIC Interface.** This Software Support Agreement covers support from 8:30 a.m. to 5:00 p.m., EST, Monday through Friday.

**Problem Resolution**

Southern Software will provide customer software support for mission critical operation of **NCIC Interface**, from 8:30 a.m. to 5:00 p.m., EST, Monday through Friday. This Agreement does not constitute a warranty but provides for mission critical problem resolutions and non-mission critical problem resolutions of repeatable errors during normal business hours, EST. Southern Software cannot warrant the product will operate free of problems in perpetuity. Southern Software does not warrant third party software applications used in programs provided to customers, i.e., Microsoft® Word. The purpose of this Agreement is to provide the necessary technical assistance to ensure a timely problem resolution and to minimize down time. Mission critical is defined as “any problem that renders the entire system unstable or inoperable”.

For problems covered under this Agreement, Southern Software will provide the following:

- Telephone response within five hours of notification of the problem. During this initial response, support personnel will determine the nature of the problem and severity. An attempt to resolve the problem will be made by giving instructions to the customer.
- If this is unsuccessful or the severity too great, then Southern Software will escalate to a Level 2 response. A Level 2 response involves a support technician connecting remotely to the customer's network using industry standard secure remote diagnostic methods to attempt to resolve the problem.
- If the problem is unable to be detected or resolved with a Level 2 response then a technician will be scheduled for an on-site visit. There is no cost to the customer for the on-site visit as long as the problem is with a Southern Software product or equipment covered by a Southern Software support contract and as long as the problem is not due to a virus or negligent actions/treatment.

The user understands support staff may provide a temporary fix. A permanent fix will be provided at a later date.

**Program Updates**

Southern Software will provide program updates to support customers as new updates, fixes and features are added. Updates will be made universally to all supported customers at one time. No custom programming will be performed.

**Third Party**

If, at any time, an update of a third party's software is required, Southern Software will not incur the cost of such upgrade.

## **System Administrator**

The customer agrees to have a designated administrator (primary contact for support and update issues). It is highly desirable that the administrator be knowledgeable in networking and Windows® operating systems.

## **Data Backup Statement**

The customer understands that it is the customer's responsibility to ensure data backups are being made daily and verified for accuracy.

## **Virus Statement**

The customer agrees to have virus protection software loaded on each machine and agrees to update it weekly. (Southern Software recommends updating your virus protection software on each machine daily.) This support contract does not cover assistance in the recovery of damage caused by viruses.

**Southern Software will charge a fee for virus recovery assistance.**

### **Items not covered under this annual support agreement -**

- **Installation and setup of new equipment.**
- **Transferring of data.**
- **Moving equipment from one site to another.**
- **On-site installation/reinstallation of Southern Software products or installation/reinstallation of third party software/products.**
- **Virus damage/recovery repair work.**
- **Recovery/repair work related to natural disasters such as lightning, floods, etc..**
- **Replacement of equipment that is out of warranty.**
- **Cost of upgrades to third party software including but not limited to Microsoft™ products (ie. Office, SQL, etc.), Anti-virus software, PcAnywhere™, etc. or cost of updates to operating systems.**
- **Data Conversions.**
- **On-site Training.**
- **Interfaces with third party products.**
- **Data loss due to drive crashes, machine failures, etc.**
- **Installation, Training and Data Conversions due to Re-architecture of Software.**

## **Benefits**

- **The Software Support Agreement only covers software developed by Southern Software.**
- **Toll-free telephone support, Monday through Friday, 8:30 a.m. to 5:00 p.m., EST**

(Benefits continued)

- 24-hour fax availability
- Software Updates
- Remote System Support
- Annual User's Conference
- Free hardware/network assessments for upgrades.
- Free follow-up/new employee training at Southern Software's office.
- Free web training.

#### **System Access/Customer Responsibility**

The customer agrees to provide a dedicated computer capable of remote access for support purposes. The computer designated for remote connectivity shall allow access to all computers on the network requiring support.

**This Annual Software Support Agreement provides coverage that begins July 2, 2016 and ends July 1, 2017.**

**Annual Support: \$2,124.00**

By signing this document you are confirming that you have read and understand the terms and conditions of this annual support agreement.

#### ***Important- Support Renewal Clause***

*A lapse in support renewal will require that all outstanding support balances be paid in full prior to reinstatement of support. Support fees are non-refundable.*

\_\_\_\_\_  
Customer Representative Signature

\_\_\_\_\_  
Date

#### **ASHE COUNTY SHERIFF (NCIC), NC**

Name of Department

NOTE: IF A PURCHASE ORDER NUMBER IS REQUIRED ON THE SUPPORT INVOICE PLEASE ENTER HERE \_\_\_\_\_. IF THE NUMBER IS NOT AVAILABLE AT THIS TIME, PLEASE FAX THE PURCHASE ORDER TO (910)695-0251 WHEN IT IS AVAILABLE.

# **SOUTHERN SOFTWARE'S ANNUAL SOFTWARE SUPPORT AGREEMENT ALPHA-NUMERIC PAGING 24/7**

**Alpha-Numeric Paging.** This Software Support Agreement covers support 24 hours a day, 7 days a week including holidays.

## **Problem Resolution**

Southern Software will provide customer software support for mission critical operation of **Alpha-Numeric Paging**, 24 hours a day 7 days a week including holidays. This Agreement does not constitute a warranty but provides for mission critical problem resolutions and non-mission critical problem resolutions of repeatable errors during normal business hours, EST. Southern Software cannot warrant the product will operate free of problems in perpetuity. Southern Software does not warrant third party software applications used in programs provided to customers, i.e., Microsoft® Word. The purpose of this Agreement is to provide the necessary technical assistance to ensure a timely problem resolution and to minimize down time. Mission critical is defined as “any problem that renders the entire system unstable or inoperable”.

For problems covered under this Agreement, Southern Software will provide the following:

- Telephone response within five hours of notification of the problem. During this initial response, support personnel will determine the nature of the problem and severity. An attempt to resolve the problem will be made by giving instructions to the customer.
- If this is unsuccessful or the severity too great, then Southern Software will escalate to a Level 2 response. A Level 2 response involves a support technician connecting remotely to the customer's network using industry standard secure remote diagnostic methods to attempt to resolve the problem.
- If the problem is unable to be detected or resolved with a Level 2 response then a technician will be scheduled for an on-site visit. There is no cost to the customer for the on-site visit as long as the problem is with a Southern Software product or equipment covered by a Southern Software support contract and as long as the problem is not due to a virus or negligent actions/treatment.

The user understands support staff may provide a temporary fix. A permanent fix will be provided at a later date.

## **Program Updates**

Southern Software will provide program updates to support customers as new updates, fixes and features are added. Updates will be made universally to all supported customers at one time. No custom programming will be performed.

## **Third Party**

If, at any time, an update of a third party's software is required, Southern Software will not incur the cost of such upgrade.

## **System Administrator**

The customer agrees to have a designated administrator (primary contact for support and update issues). It is highly desirable that the administrator be knowledgeable in networking and Windows® operating systems.

## **Data Backup Statement**

The customer understands that it is the customer's responsibility to ensure data backups are being made daily and verified for accuracy.

## **Virus Statement**

The customer agrees to have virus protection software loaded on each machine and agrees to update it weekly. (Southern Software recommends updating your virus protection software on each machine daily.) This support contract does not cover assistance in the recovery of damage caused by viruses.

***Southern Software will charge a fee for virus recovery assistance.***

### **Items not covered under this annual support agreement -**

- **Installation and setup of new equipment.**
- **Transferring of data.**
- **Moving equipment from one site to another.**
- **On-site installation/reinstallation of Southern Software products or installation/reinstallation of third party software/products.**
- **Virus damage/recovery repair work.**
- **Recovery/repair work related to natural disasters such as lightning, floods, etc..**
- **Replacement of equipment that is out of warranty.**
- **Cost of upgrades to third party software including but not limited to Microsoft™ products (ie. Office, SQL, etc.), Anti-virus software, PcAnywhere™, etc. or cost of updates to operating systems.**
- **Data Conversions.**
- **On-site Training.**
- **Interfaces with third party products.**
- **Data loss due to drive crashes, machine failures, etc.**
- **Installation, Training and Data Conversion due to Re-architecture of Software.**

### **Benefits**

- **The Software Support Agreement only covers software developed by Southern Software.**
- **Toll-free telephone support, 7 days a week, 24 hours a day including holidays.**

(Benefits continued)

- 24-hour fax availability
- Software Updates
- Remote System Support
- Annual User's Conference
- Free hardware/network assessments for upgrades.
- Free follow-up/new employee training at Southern Software's office.
- Free web training.

### **System Access/Customer Responsibility**

The customer agrees to provide a dedicated computer capable of remote access for support purposes. The computer designated for remote connectivity shall allow access to all computers on the network requiring support.

**This Annual Software Support Agreement provides coverage that begins October 21, 2016 and ends October 20, 2017.**

**Annual Support: \$782.00**

By signing this document you are confirming that you have read and understand the terms and conditions of this annual support agreement.

### ***Important- Support Renewal Clause***

*A lapse in support renewal will require that all outstanding support balances be paid in full prior to reinstatement of support. Support fees are non-refundable.*

\_\_\_\_\_  
Customer Representative Signature

\_\_\_\_\_  
Date

### **ASHE COUNTY SHERIFF (PAGING), NC**

Name of Department

NOTE: IF A PURCHASE ORDER NUMBER IS REQUIRED ON THE SUPPORT INVOICE PLEASE ENTER HERE \_\_\_\_\_. IF THE NUMBER IS NOT AVAILABLE AT THIS TIME, PLEASE FAX THE PURCHASE ORDER TO (910)695-0251 WHEN IT IS AVAILABLE.

**SOUTHERN SOFTWARE'S  
ANNUAL SOFTWARE SUPPORT AGREEMENT  
Records Management (Police-Pak, Sheriff-Pak and RMS)  
8:30 a.m., EST to 5:00 p.m., EST**

**Police-Pak™, Sheriff-Pak™ and RMS.** This Software Support Agreement covers support from 8:30 a.m. to 5:00 p.m., EST, Monday through Friday.

**Problem Resolution**

Southern Software will provide customer software support for the operation of **Police-Pak™, Sheriff-Pak and RMS**, from 8:30 a.m. to 5:00 p.m., EST, Monday through Friday. This Agreement does not constitute a warranty but provides for mission critical problem resolutions and non-mission critical problem resolutions of repeatable errors during normal business hours, EST. Southern Software cannot warrant the product will operate free of problems in perpetuity. Southern Software does not warrant third party software applications used in programs provided to customers, i.e., Microsoft® Word. The purpose of this Agreement is to provide the necessary technical assistance to ensure a timely problem resolution and to minimize down time. Mission critical is defined as "any problem that renders the entire system unstable or inoperable".

For problems covered under this Agreement, Southern Software will provide the following:

- Telephone response within five hours of notification of the problem. During this initial response, support personnel will determine the nature of the problem and severity. An attempt to resolve the problem will be made by giving instructions to the customer.
- If this is unsuccessful or the severity too great, then Southern Software will escalate to a Level 2 response. A Level 2 response involves a support technician connecting remotely to the customer's network using industry standard secure remote diagnostic methods to attempt to resolve the problem.
- If the problem is unable to be detected or resolved with a Level 2 response then a technician will be scheduled for an on site visit. There is no cost to the customer for the on site visit as long as the problem is with a Southern Software product or equipment covered by a Southern Software support contract and as long as the problem is not due to a virus or negligent actions/treatment.

The user understands support staff may provide a temporary fix. A permanent fix will be provided at a later date.

**Program Updates**

Southern Software will provide program updates to support customers as new updates, fixes and features are added. Updates will be made universally to all supported customers at one time. No custom programming will be performed.

**Third Party**

If, at any time, an update of a third party's software is required, Southern Software will not incur the cost of such upgrade.

## **System Administrator**

The customer agrees to have a designated administrator (primary contact for support and update issues). It is highly desirable that the administrator be knowledgeable in networking and Windows® operating systems.

## **Data Backup Statement**

The customer understands that it is the customer's responsibility to ensure data backups are being made daily and verified for accuracy.

## **Virus Statement**

The customer agrees to have virus protection software loaded on each machine and agrees to update it weekly. (Southern Software recommends updating your virus protection software on each machine daily.) This support contract does not cover assistance in the recovery of damage caused by viruses.

**Southern Software will charge a fee for virus recovery assistance.**

### **Items not covered under this annual support agreement -**

- **Installation and setup of new equipment.**
- **Transferring of data.**
- **Moving equipment from one site to another.**
- **On-site installation/reinstallation of Southern Software products or installation/reinstallation of third party software/products.**
- **Virus damage/recovery repair work.**
- **Recovery/repair work related to natural disasters such as lightning, floods, etc..**
- **Replacement of equipment that is out of warranty.**
- **Cost of upgrades to third party software including but not limited to Microsoft™ products (ie. Office, SQL, etc.), Anti-virus software, PcAnywhere™, etc. or cost of updates to operating systems.**
- **Data Conversions.**
- **On-site Training.**
- **Interfaces with third party products.**
- **Data loss due to drive crashes, machine failures, etc.**
- **Installation, Training and Data Conversions for Software Re-architecture.**

## **Benefits**

- **The Software Support Agreement only covers software developed by Southern Software.**



**(Benefits continued)**

- Toll-free telephone support, Monday through Friday, 8:30 a.m. to 5:00 p.m., EST
- 24-hour fax availability
- Software Updates
- Remote System Support
- Annual User's Conference
- Free hardware/network assessments for upgrades.
- Free follow-up/new employee training at Southern Software's office.
- Free web training.

**System Access/Customer Responsibility**

The customer agrees to provide a dedicated computer capable of remote access for support purposes. The computer designated for remote connectivity shall allow access to all computers on the network requiring support.

**This Annual Software Support Agreement provides coverage that begins July 1, 2016 and ends June 30, 2017.**

**Annual Support: \$5,352.00**

By signing this document you are confirming that you have read and understand the terms and conditions of this annual support agreement.

***Important- Support Renewal Clause***

*A lapse in support renewal will require that all outstanding support balances be paid in full prior to reinstatement of support. Support fees are non-refundable.*

\_\_\_\_\_  
Customer Representative Signature

\_\_\_\_\_  
Date

**ASHE COUNTY SHERIFF (REC), NC**

Name of Department

NOTE: IF A PURCHASE ORDER NUMBER IS REQUIRED ON THE SUPPORT INVOICE PLEASE ENTER HERE \_\_\_\_\_. IF THE NUMBER IS NOT AVAILABLE AT THIS TIME, PLEASE FAX THE PURCHASE ORDER TO (910)695-0251 WHEN IT IS AVAILABLE.



**SOUTHERN SOFTWARE, INC.**  
an employee-owned company

**Agency:** Ashe County Sheriff's Office, NC  
**Contact:** Phil Howell  
**Date:** 6/6/2016

<b>HARDWARE AND SOFTWARE</b>	<b>Qty</b>	
<b>Wireless Messaging for CAD (with 5 additional Paging Connectors)</b> <i>For Backup Center</i>	1	\$1,000.00
<b>CAD with MDS for EOC</b>	2	FREE
<b>* Neverfail for Physical Server (1 Pair) (Note: first year support included; 2nd year payable to Neverfail - Approx. \$1,000) See Hardware Requirements Below</b>	1	\$4,995.00
<b>Installation/Configuration of Neverfail (Neverfail Installation Onsite)</b>	1	\$4,750.00

<b>TOTAL INVESTMENT</b> (STATE TAX AND SHIPPING NOT INCLUDED)	<b>\$10,745.00</b>
---	--------------------

50% due upon signing proposal; 50% due upon completion of installation.

**CUSTOMER'S SIGNATURE** \_\_\_\_\_ **DATE** \_\_\_\_\_

**Please sign this document and return it to us by fax or mail. When the document is signed and returned to Southern Software, we will begin processing your order.**

**Proposal is valid for (30) days from date of proposal..**

#### Hardware Requirements

##### Primary Server

- Must meet Microsoft's requirements for one of the following installed operating systems:
  - Windows Server 2003 x86 and x64 Standard / Enterprise / R2 with SP1 or SP2
  - Windows Server 2008 x 86 and x64 Standard / Enterprise with SP1 or SP2
  - Windows Server 2008 R2 x64 Standard / Enterprise / Datacenter with SP1
  - Windows Server 2012 x64 Standard/Datacenter
- 1 GB RAM minimum, 2 GB RAM recommended
- Minimum available RAM required for Neverfail processes and components (recommended 1GB)
  - Minimum of 256 MB available for Neverfail processes and components on Windows Server 2003
  - Minimum of 512 MB available for Neverfail processes and components on Windows Server 2008/R2
  - Minimum of 512 MB available for Neverfail processes and components on Windows Server 2012
- 2 GB of available hard disk space
- Number of NICs:
  - In a Pair configuration: 2 non-teamed NICs required, 3 non-teamed NICs recommended
  - In a Trio configuration: minimum 3 NICs required (one for the Public connection and 2 for the Neverfail Channels)

Note: Neverfail Heartbeat v6.7 and later supports use of a single NIC for both the Neverfail Channel and Principal (Public) network connection.

- Multiple hard disk drives are recommended as per application vendors' requirements. Avoid locating OS, database, and log files on the same disks

##### Secondary Server and Tertiary (if implemented)

- Must meet Microsoft's requirements for one of the following installed operating systems:
  - Windows Server 2003 x86 and x64 Standard / Enterprise / R2 with SP1 or SP2
  - Windows Server 2008 x 86 and x64 Standard / Enterprise with SP1 or SP2
  - Windows Server 2008 R2 x64 Standard / Enterprise / Datacenter with SP1
  - Windows Server 2012 x64 Standard / Datacenter
- 1 GB RAM minimum, 2 GB RAM recommended
- Minimum available RAM required for Neverfail processes and components
  - Minimum of 256 MB available for Neverfail processes and components on Windows Server 2003
  - Minimum of 512 MB available for Neverfail processes and components on Windows Server 2008/R2
  - Minimum of 512 MB available for Neverfail processes and components on Windows Server 2012
- Total hard disk space should be greater than or equal to the Primary Server
- Same number of NICs as the Primary Server
- Hard drive lettering scheme must match the Primary Server (although underlying hardware may be different)

***Contact information for Public Safety Representative:***

**Mike Moody  
Southern Software  
150 Perry Drive  
Southern Pines, NC 28387**

**Business: 800.842.8190  
Mobile: 910.603.3481  
Fax: 910.695.0251  
E-Mail [mmoody@southernsoftware.com](mailto:mmoody@southernsoftware.com)**

**June 3, 2016**

**Customer: Ashe County**

**Quote: CommandPost Unit for Backup Plan**

Qty.	Part No.	Description	Price
		<b>VESTA® 9-1-1 CommandPOST System</b>	
		<b>VESTA® 9-1-1 Prime Standard Operations</b>	
		<b>License for connecting to both systems</b>	
2	PS-0PR-VSSL	VPRIME PER SEAT LIC	\$14,666.67
2	SS-0PR-VSSL-1Y	SPT VPRIME 1YR	\$2,640.00
		<b>ESInet Interface Module (EIM)</b>	
2	873090-11102	R4 LIC EIM RFAI MOD	\$533.33
2	809800-01116	R4 LIC EIM RFAI SPT 1YR	\$96.00
		<b>VESTA® 9-1-1 CDR Module</b>	
2	873099-01102	R4 CDR PER SEAT LIC	\$240.00
		<b>CommandPOST Hardware</b>	
1	61050-G409602	LAPTOP ZBOOK15 G2 W7	\$2,412.00
1	04000-00490	ADV DOCK STATION 230W	\$536.00
1	64021-10025	KYBD/MOUSE BNDL	\$58.67
1	Wireless	22IN Touchscreen Monitor	\$827.24
1	64007-50021	KEYPD 24K 12F USBCBL CP24	\$145.33
1	853004-00401	SAM EXT SPKR KIT	\$224.00
1	853004-00301	CPOST SAM HDWR KIT	\$3,042.67
1	809800-35109	R4 IWS CFG	\$266.67
1	809800-35108	R4 IWS STG FEE	\$400.00
		<b>VESTA® 9-1-1 IRR Module</b>	
1	873099-00502	R4 IRR LIC/DOC/MED	\$1,326.67
1	809800-35110	R4 IRR SW SPT 1YR	\$238.67
		<b>License for existing CommandPost unit to connect to Wilkes County</b>	
1	PS-0PR-VSSL	VPRIME PER SEAT LIC	\$7,333.33
1	SS-0PR-VSSL-1Y	SPT VPRIME 1YR	\$1,320.00
1	873099-01102	R4 CDR PER SEAT LIC	\$120.00
		<b>Spare Hardware</b>	
2	04000-00490	ADV DOCK STATION 230W	\$1,072.00
2	64021-10025	KYBD/MOUSE BNDL	\$117.33
2	Wireless	22IN Touchscreen Monitor	\$1,654.48
2	64007-50021	KEYPD 24K 12F USBCBL CP24	\$290.67
2	853004-00401	SAM EXT SPKR KIT	\$448.00
2	853004-00301	CPOST SAM HDWR KIT	\$6,085.33
1	Wireless	Shipping	\$309.45
1	Wireless	1st Year Warranty Service	\$905.99
1	Wireless	Installation	\$5,000.00
1	Wireless	CommandPost Training	\$724.00
<b>Total Cost:</b>			<b>\$53,034.49</b>



## Quote

To: Phil Howell, Ashe County Sheriff's Department

Date: 03/18/2016

Proposed Space – Suite 209 located in main building at Family Central

Total Square Footage – 446

Rental Rate - \$9.15/square foot

Total Rental Cost - \$340.08/month which calculates to \$4,080.90 annually

*Note: Rental rate \$0.15 increase for fiscal year 2016-2017*

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Accepted: \_\_\_\_\_

Date: \_\_\_\_\_

Anticipated occupancy date: \_\_\_\_\_



**Quote Number:** QU0000356263

**Effective:** 22 MAR 2016

**Effective To:** 21 MAY 2016

**Bill-To:**

ASHE COUNTY SHERIFF DEPT  
150 GOVERNMENT CIR STE 2500  
JEFFERSON, NC 28640  
United States

**Attention:**

**Name:** Phil Howell  
**Phone:** 828-455-2904

**Sales Contact:**

**Name:** Randy Heaton MR  
**Email:** rheaton@wirelessnc.com  
**Phone:** 8284552904

**Contract Number:** NC STATE NON Ariba -725G  
**Freight terms:** FOB Destination  
**Payment terms:** Net 30 Due

Item	Quantity	Nomenclature	Description	List price	Your price	Extended Price
1	2	AAH56JDN9KA1AN	XPR 7550 136-174 5W FKP GPS BT GOB	\$1,131.67	\$1,131.67	\$2,263.34
1a	2	QA04474AC	ALT: IMPRES 2800MAH LIION IP57 BATT	\$58.33	\$58.33	\$116.66
1b	2	QA02299AA	ADD: VHF HELICAL ANTENNA (136-155)	-	-	-
2	425	SVC03SVC0115D	SUBSCRIBER PROGRAMMING	\$1.00	\$1.00	\$425.00
3	2	WPLN4232A	CHARGER, SINGLE-UNIT, IMPRES, 1.25A, 115VAC, US/NA	\$69.30	\$53.36	\$106.72
(Notes)extra chargers						
4	2	NNTN8383B	AUDIO ACCESSORY-REMOTE SPEAKER MICROPHONE,IMPRES INC RSM, AUDIO JACK	\$220.00	\$169.40	\$338.80

**Total Quote in USD**

**\$3,250.52**

PO Issued to Motorola Solutions Inc. must:

- >Be a valid Purchase Order (PO)/Contract/Notice to Proceed on Company Letterhead. Note: Purchase Requisitions cannot be accepted
- >Have a PO Number/Contract Number & Date
- >Identify "Motorola Solutions Inc." as the Vendor
- >Have Payment Terms or Contract Number
- >Be issued in the Legal Entity's Name
- >Include a Bill-To Address with a Contact Name and Phone Number
- >Include a Ship-To Address with a Contact Name and Phone Number
- >Include an Ultimate Address (only if different than the Ship-To)
- >Be Greater than or Equal to the Value of the Order
- >Be in a Non-Editable Format
- >Identify Tax Exemption Status (where applicable)
- >Include a Signature (as Required)



**Quote Number:** QU0000356250

**Effective:** 22 MAR 2016

**Effective To:** 21 MAY 2016

**Bill-To:**

ASHE COUNTY SHERIFF DEPT  
150 GOVERNMENT CIR STE 2500  
JEFFERSON, NC 28640  
United States

**Attention:**

**Name:** Phil Howell  
**Phone:** 828-455-2904

**Sales Contact:**

**Name:** Randy Heaton MR  
**Email:** rheaton@wirelessnc.com  
**Phone:** 8284552904

**Contract Number:** NC STATE NON Ariba -725G

**Freight terms:** FOB Destination

**Payment terms:** Net 30 Due

Item	Quantity	Nomenclature	Description	List price	Your price	Extended Price
1	1	H97TGD9PW1AN	APX7000 DIGITAL PORTABLE RADIO	\$3,359.00	\$2,519.25	\$2,519.25
1a	1	QA00569AA	ADD: 7/800MHZ PRIMARY BAND	-	-	-
1b	1	QA00781AA	ALT: LIION IMPRES 4200 MAH IP67 (NNTN7034A)	\$115.00	\$86.25	\$86.25
1c	1	QA00577AA	ADD: LARGE COLOR DISPLAY AND FULL KEYPAD	\$500.00	\$375.00	\$375.00
1d	1	Q806BK	ADD: ASTRO DIGITAL CAI OPERATION	\$515.00	\$386.25	\$386.25
1e	1	H38BS	ADD: SMARTZONE OPERATION	\$1,500.00	\$1,125.00	\$1,125.00
1f	1	QA00574AA	ADD: VHF SECONDARY BAND	-	-	-
1g	1	QA00579AA	ADD: ENABLE DUAL BAND OPERATION	\$1,000.00	\$750.00	\$750.00
1h	1	Q361AN	ADD: P25 9600 BAUD TRUNKING	\$300.00	\$225.00	\$225.00
1i	1	QA01833AB	ADD: EXTREME 1-SIDED NOISE REDUCTION	\$25.00	\$18.75	\$18.75
1j	1	H842BE	PACKAGING KIT,ADD: SINGLE PACK LTE UPGRADE KIT	-	-	-
2	2	WPLN7080A	CHR IMP SUC EXT US/NA/CA/LA	\$125.00	\$96.25	\$192.50
3	385	SVC03SVC0115D	SUBSCRIBER PROGRAMMING	\$1.00	\$1.00	\$385.00
(Notes)Electronic Template						
4	49	SVC03SVC0115D	SUBSCRIBER PROGRAMMING	\$1.00	\$1.00	\$49.00
5	2	HMN4103B	IMPRES RSM DSPLY W JACK, NO CHNL	\$345.00	\$265.65	\$531.30

**Total Quote in USD**

**\$6,643.30**

PO Issued to Motorola Solutions Inc. must:

- >Be a valid Purchase Order (PO)/Contract/Notice to Proceed on Company Letterhead. Note: Purchase Requisitions cannot be accepted
- >Have a PO Number/Contract Number & Date
- >Identify "Motorola Solutions Inc." as the Vendor
- >Have Payment Terms or Contract Number
- >Be issued in the Legal Entity's Name
- >Include a Bill-To Address with a Contact Name and Phone Number
- >Include a Ship-To Address with a Contact Name and Phone Number
- >Include an Ultimate Address (only if different than the Ship-To)

# North Carolina 911 Board Grant Application

## General Information

**Project Title**

Catawba County VHF Simulcast System Improvement

**Grant Fiscal Year - 2017**

**Project Director**

Catawba County 911 Communications Manager

**Project Contact**

Brian A. Drum

**Project Contact Title**

Catawba County 911 Communications Manager

**Address**

PO Box 389, Newton, NC, 28658

100-B Southwest Blvd, Newton, NC, 28658

**Phone**

828-465-8330

**Email**

badrum@catawbacountync.gov

*Three types of grants are available, as described below. In the box following these descriptions, please select the Grant Type which most appropriately fits your request.*

- **Consolidation** - A consolidation project involves combining one or more PSAPs with a primary PSAP with an integrated management structure that serves the same populations and jurisdictions previously served by offering grant funding for both PSAP costs authorized under G.S. 143B-1406(e) and costs not authorized under G.S. 143B-1406(e) to include construction costs.
- **Individual PSAP Enhancement/Replacement** - the relocation costs of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.
- **Regional Initiative Enhancement/Replacement** - Regional initiatives are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such initiatives comprise projects involving two or more primary PSAPs or a primary PSAP with approved secondary PSAPs. Costs of relocation of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.



**Grant Type**            **Individual PSAP Enhancement/Replacement**

**PSAP Name**            **Catawba Co Communications Center**

1. ***Has the Revenue/Expenditure Report for FY15 been completed and approved by the NC 911 Board Fiscal staff for the applicant PSAP?***

YES

2. ***Has the applicant PSAP submitted a plan and secured the means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP (backup plan)?***

YES

3. ***If the answer to #2 above is yes, does the PSAP have the means to implement the plan before 7/1/16?***

NO

4. ***If plan implementation will not occur before July 1, 2016, has an extension been requested?***

YES

-----

# Project Description

***Required for all grant types, this should be a thorough, concise, and complete description of the proposed project.***

## **5. Please outline project goals and objectives.**

In December, 2015, Catawba County recognized the need to replace the aging and outdated VHF voter steered repeater system. Many parts of the current system are no longer manufactured and others are no longer supported. The system in place today only transmits from one of the three transmit sites at a time. This can be a problem for agencies that have districts that only have half coverage from two sites. Catawba County decided this would be the perfect time to transition from the current voter steered repeater system to a simulcast repeater system. Replacing the system will accomplish two major goals. The first goal will be to replace the old out dated current system. The second goal will be to improve the coverage issues that are faced with the voter steered system. The proposed system is a Motorola GTR8000 plus VHF simulcast system with three channels, four sites. The three channels will include a Law Enforcement channel, a EMS channel, and a Fire channel. The four sites will use site locations already in place. The sites will be located at the justice center, Anderson Mountain, Bakers Mountain, and Hwy 16 North. These sites will be connected by microwave and rely on a net clock to receive its timing for the simulcast alignment. (Attachment 1)

Goal: To improve the overall reliability and coverage of the VHF system used for paging first responders and as backup to the state's VIPER system.

This goal can be accomplished by the following objectives:

Objective 1: Determine the best VHF system to put in place. Current suggestion is the Motorola GTR8000 plus, 3 channel, four site simulcast system. Additional services may be required to accomplish this objective.

Objective 2: Procure the equipment for the that has been identified as the best option for the county.

Objective 3: Establish a work plan and timeline for installation of the system equipment.

(Attachment 2)

## **6. Please provide an implementation strategy and work plan, including a timeline.**

The VHF simulcast system will require extensive coordination for the project. The plan would involve breaking the project down into smaller phases. Each of the phases would be installed, and tested extensively prior to moving the the next phase. Once the system is purchased, it would take approximately one month for delivery and another month for installation and optimization. (Attachment 3)

## **7. Please identify the interface or compatibility between existing equipment and/or software and that which you intend to purchase.**

The purposed GTR8000 plus simulcast system has the capability to interface directly with the

Motorola Centracom Gold console system that is currently in use. The purposed system will also have the ability to directly interface with the new Motorola MCC7500 radio dispatch consoles purchased for the new 911 center. The simulcast system will use Radio Gateway Units to interface with the Motorola MCC7500 consoles. (Attachment 4) This will also allow for a better option of integrating VIPER onto the dispatch channel for fire. The voter steered system does not interface with VIPER easily.

**8. Please indicate how your PSAP or group of PSAPs meets the statutory criterion of serving a rural or high cost area.**

G.S. 53A-37(5) defines a rural area as any county in North Carolina which does not include within its boundaries a city, as defined by G.S. 160A-1(2), with a population greater than one percent (1%) of the population of North Carolina.

The Catawba Co Communications Center is the primary PSAP for Catawba County. The County meets the definition of a "rural area" as defined in G.S. 53A-37(5).

In 2015 the United States Census Bureau estimated the population of North Carolina was 10,042,802. The City of Hickory currently has the largest population of any city in Catawba County. In 2015 the United States Census Bureau estimated Hickory's population was 40,374. These estimates show, the City of Hickory's population is only four tenths of a percent (0.4%) of the state's population. This show Catawba County meets the definition of being a rural area set forth in G.S. 53A-37(5).

G.S. 143B-437.08 ranks counties annually in one of three development tiers. If no ties exist there will be 40 Tier One counties (most distressed), 40 Tier Two counties, and 20 Tier Three counties (least distressed). The rankings for the tier grouping are based on four factors: average unemployment rates, median household income, percentage growth in population, and adjusted property tax base per capita.

In 2015 and 2016 the North Carolina Department of Commerce designated Catawba County as a "Tier Two" county in the state as laid out in G.S. 143B-437.08.

In 2015, Catawba County was ranked 61 (1 being most distressed) in economic distress and an adjusted county ranking of 72. In 2016, Catawba County is ranked 71 in economic distress and an adjusted county ranking of 78. (Attachment 5)

## Statement of Need

***Required for all grant types, this statement should reference the relationship of the grant project to NCGS §143b-1407(b) and the current funding priorities established by the Grant Policy and Procedures and include evidence of any financial need.***

**9. Please identify funding priorities, their impact on operational services, and consequences of not receiving funding.**

The priority is to secure funding to install a new VHF simulcast radio system to increase the overall reliability and also provide better coverage county wide. If funding is secured and the system is purchased, it would help with some of the problems of telecommunicators not being able to understand field units and having to take the time to ask them to repeat their traffic. Failure to secure grant funding will cause the county to look at other methods of funding for the system.

**10. Please provide a copy of your PSAP's long-term or strategic technology plan and identify how the project fits within it.**

The proposed VHF simulcast system enables the Catawba Co Communications Center to continue building on the strategic technology plan in place. The strategic technology plan highlights having a state of the art 911 center. This includes not only the technology used inside the center but also the technology used as part of the radio infrastructure. The simulcast system uses some of the latest technology to help make the system reliable but also expandable for the future. (Attachment 6)

**11. Please identify the likelihood of completing the project utilizing your 911 fund balance and the percentage of grant funding being requested in relation to total project costs.**

Catawba County is requesting 100% of the purposed VHF simulcast system since radio system infrastructure is not an allowable expense. Since radio system infrastructure is not an allowable expense under G.S. 143B-1406(d), no amount of the 911 fund would be used. The system does meet the criteria for grant funding under G.S. 143B-1407(b)4 The costs for consolidating one or more PSAPs with a primary PSAP, the relocation costs of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(d) and construction costs.

## ***Regional Initiative Enhancement/Replacement Project***

***Required for all Regional Initiative Enhancement/Replacement project types.***

***Regional initiative enhancement/replacement projects are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such projects may involve two or more primary PSAPs.***

***12. What is the relationship of participating PSAPs to the initiative? Provide MOUs between PSAPs identifying each participant PSAP's responsibilities to the project.***

N/A

***13. Identify intended collaborative efforts between participating PSAPs.***

N/A

***14. Identify how resource sharing will take place.***

N/A

***15. Indicate how the initiative impacts the operational or strategic plans of the participating agencies.***

N/A

**NOTE:** The following section on “Consolidation Project Plan” is **ONLY** required if your type of grant is a “Consolidation”. If your project **IS NOT** a Consolidation, proceed to question # 23 to complete the grant application.

**16. Indicate how a consolidation would take place and improve service**

N/A

**17. Indicate how the consolidated PSAP should be organized and staffed**

N/A

**18. Indicate what services the consolidated PSAP should perform**

N/A

**19. Indicate how consolidated PSAP policies should be made and changed**

N/A

**20. Indicate how the consolidated PSAP should be funded exclusive of grant funding**

N/A

**21. Indicate what changes or improvements should be made to inter-communications among the local governments participating in the consolidation in order to better support operations.**

N/A

**22. Discuss sustainability of the consolidation project during the proposed term of the project, and for the foreseeable future.**

N/A



## FINANCIAL DATA

**23. Current 911 Fund Balance**

\$2,215,948.97 (Attachment 7)

**24. Amount Requested**

\$696,982.00

**25. Total Project Cost**

\$696,982.00

## Budget and Budget Narrative

A budget and budget narrative must be supplied for all types of projects, as well as a copy of the applicant agency's approved FY 2016 PSAP budget.

### **26. List planned expenditures**

VHF simulcast system, three channel, four site system \$633,620.00

- Motorola GTR800 Plus Simulcast system components \$478,255.00
- Programming Services \$4,000.00
- Shipping Cost \$9,365.00
- Installation & System Optimization \$60,000.00
- Engineering Services \$34,000.00
- Tower Crew \$48,000.00

Project Subtotal \$633,620.00

Project Contingency (10% of total projected expenses) \$63,362.00

Project Total \$696,982.00

(Attachment 8 Budget)

Attachment 9)

### **27. Provide a budget narrative that briefly explains the reason for each requested budget item.**

Motorola GTR8000 plus simulcast system components

Catawba County received a budgetary quote from Wireless Communications for components needed to construct the Motorola GTR8000 plus simulcast system. The system will be used to provide VHF paging to alert the volunteer first responders throughout the county. The system will also be used as a backup system in the event the VIPER system experiences issues.

Programming Services

Catawba County received a budgetary quote from Wireless Communications for programming services needed to setup the simulcast system.

Shipping Cost

Catawba County received a budgetary quote from Wireless Communications for cost associated with the shipping of all the components of the simulcast system.

Installation & System Optimization

Catawba County received a budgetary quote from Wireless Communications for the cost associated with the installation and optimization of the simulcast system.

Engineering Services

Catawba County receive a budgetary quote from Wireless Communications for the cost associated



with the design and engineering of the simulcast system.

Project contingency (10%)

This fund is set aside to offset any overages or unplanned cost of the budgeted items.

**28. State how you will follow applicable procurement law, rules, and policies.**

All products and services for the project will be procured following the policies and procedures set forth in the Catawba County Code of Ordinances, Chapter 30. (Attachment 10)

Catawba County follows the statutory provisions regulating purchasing by local governments. These regulations are contained primarily in G.S. 143-129 – 143-135. Other specific duties, responsibilities and authorities are contained in G.S. chapters 14, 44, 66, 75, 87, 105, 153, 160A and 159, the Local Government Budget and Fiscal Control Act. By virtue of these statutes, the county is empowered to enter into contracts for procurement of materials and services. (Attachment 10)

**29. If the project will have ongoing expenses, such as monthly recurring charges, describe plans and specific sources for future/long-term funding and demonstrate how the project will be sustained in the future without additional 911 Grant Program funding.**

The Motorola GTR8000 Plus VHF simulcast system will have non-eligible recurring expenses. These future recurring expenses will be covered by the Catawba County general fund.

# Evaluation

***All applications must include evaluation information. The final report shall include an evaluation demonstrating that the equipment or services funded by the grant have been purchased, installed/implemented, and are performing as expected.***

**30. Explain how your evaluation will measure the achievement of the goals and objectives identified in the Project Description with a timeline for meeting short, intermediate, and long term goals.**

The evaluation of milestones and the determination of objectives being satisfied for the project will closely align with the implementation timeline provided as part of the backup PSAP plan. The timeline will be adjusted based on the timing of the grant being awarded. All stakeholders will be involved in determining if the milestones and objectives have been achieved. The stakeholders will be known as the project team.

Awarding of the grant – August 1, 2016

Procurement process – 90 days (August 1, 2016 to October 29, 2016)

System delivery – 30 days (October 29, 2016 to November 28, 2016)

System installation – 30 days (November 28, 2016 to December 28, 2016)

System go live date – (December 29, 2016)

(Attachment 3)

**31. Describe how evaluations will be conducted, including performance parameters which must be met in order to meet acceptance criteria.**

The project team will determine and conduct the evaluations of all milestones and objectives associated with the project. Evaluations will be conducted on routine intervals that will be determined by the team. The interval of evaluations can be adjusted to meet the needs of the project, request of the 911 board, or the request of any other governing body or agency. The evaluation criteria will include; expected installation timeframe, industry standards for proper installation, and meeting or exceeding accepted industry performance standards. The project contact will be involved in all project evaluations.

**32. Identify how data will be collected and presented**

The project team will compile and review all the necessary data associated with the project. All data will be collected and maintained in a common format that will allow the entire project team to stay up to date on the status of the project. Data points collected might include but not limited to: scheduling and timelines, project budget status, testing, compliance, and acceptance.

## **Attachment – 1**

### **Question 5**

**Existing Voting Steered VHF System:**

- System installed in 2004/2005.
- 3 sites/3 channels
- System was designed for to improve “talk-in” coverage.
- System was designed for VHF as primary communications.
- System was designed to follow the responder.
- Most of the equipment is no longer manufactured and some no longer supported.

**Purposed Simulcast VHF System:**

- 4 sites/3 channels
- System is designed for uniform pager coverage countywide.
- Cleaner patching between VHF and VIPER. Helps support the transition to VIPER.
- Improves the ability to dispatch from remote locations such as the purposed backup center at Hickory PD or even the Emergency Services mobile command post.

**Operational Expenses:**

- Estimated annual maintenance savings - \$61,500 first year, \$26,500 years two thru five.
- Estimated annual T1 connectivity savings - \$48,120
- Estimated annual power savings - \$2,600
- Estimated total annual savings for the first year - \$102,220
- Estimated total annual savings for years two thru five - \$77,220
- Estimated total savings for five years - \$411,100

**Cost:**

- \$633,620.00 – Simulcast VHF System (including 1<sup>st</sup> year of maintenance)
- \$135,600.00 – 4 additional years of maintenance (included in operational expenses)
- \$14,776.72 – Monthly lease cost for 60 months (\$886,603.20)

**Options:**

- Option 1 – Purchase entire simulcast VHF system (minimal risk).
  - Most reliable and maintainable option.
- Option 2 – Purchase components of the simulcast VHF system (high risk).
  - Changing technology could increase the cost of the system.
- Option 3 – Replace the current VHF system with new components (high risk).
  - System is obsolete. Manufacturers no longer in business.
- Option 4 – Keep current system in place as it is today (high risk).
  - System components failing and not able to be replaced.

# VHF Simulcast Radio System

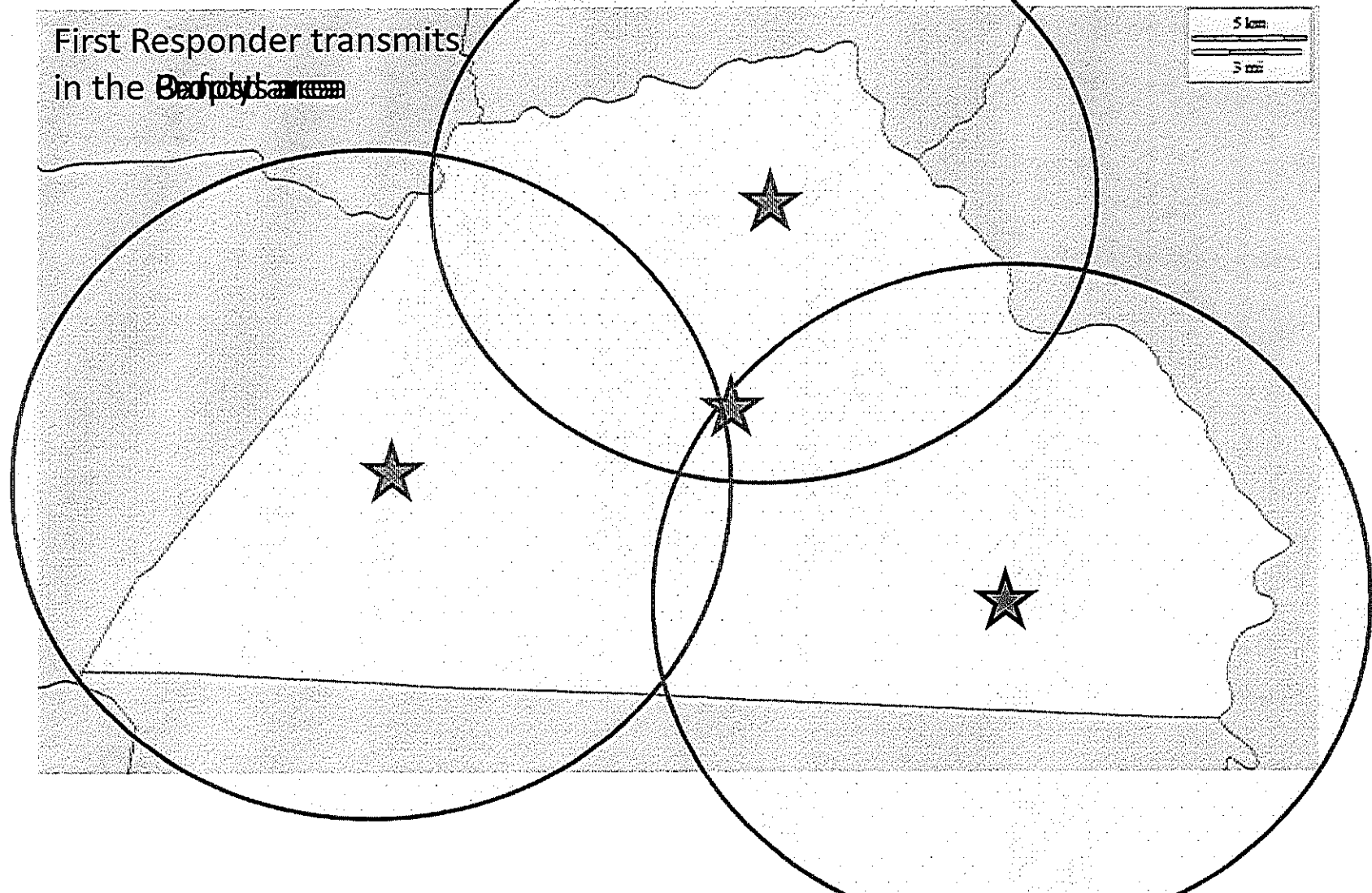
Brian A Drum

911 Communications Manager

# Overview of Current System

- 3 site, 3 channel, voting steered system.
  - System was installed in 2004/2005.
  - Transmit sites located at Anderson Mtn, Bakers Mtn and Hwy 16 North.
  - Only transmits from one site at a time. Provides optimal coverage to a third of the county at a time.
  - 6 additional receive sites to supplement talk-in coverage. (9 total receive sites)
  - System follows the field users when they transmit on the system.

# Current VHF System

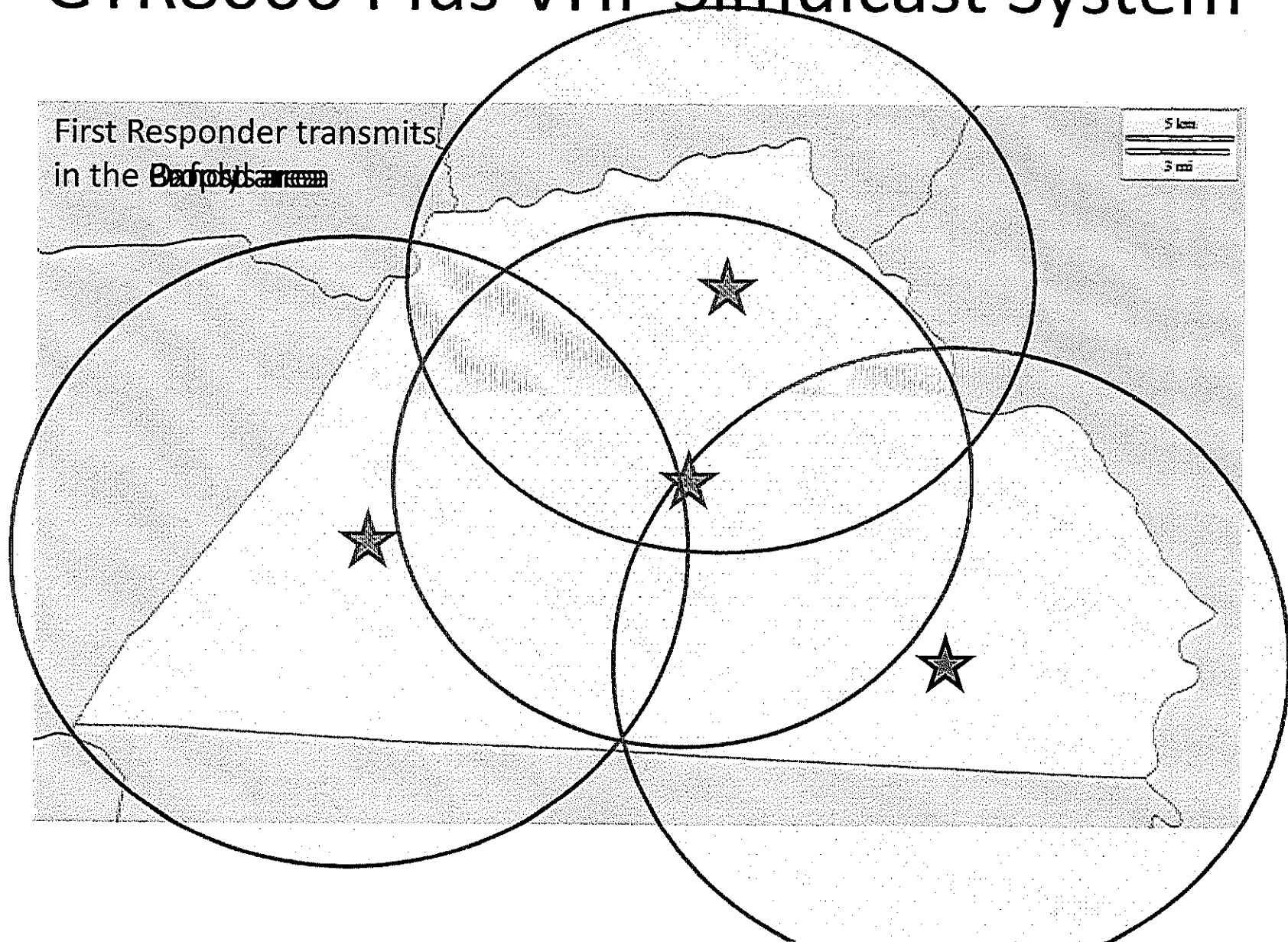


# Overview of Purposed System

- 4 site, 3 channel, simulcast system.
  - Transmit sites located at Anderson Mtn, Bakers Mtn, Hwy 16 North and the Justice Center.
  - Transmits from all 4 sites at one time. This allows countywide coverage with each transmission.



# GTR8000 Plus VHF Simulcast System



# Why do we need it now?

- Most of the equipment was purchased in 2004.
- Some of the equipment dates back to 1996.
- Most of the equipment is no longer manufactured and some are no longer supported.
- The move into the new center will require the current system to be moved and additional equipment purchased to connect it to the MCC7500 dispatch consoles.
- If the equipment is powered down for the move, it may not power back up.
- If a piece breaks we may not be able to replace it.
  - In early 2015 the radio system received a lightening strike that took out one of the AdTrans on the system. It took over two months to have the equipment repaired and reinstalled.

# What will it improve?

- Shorten the length of time it takes to dispatch multiple agencies to a single incident.
- More uniform pager coverage countywide for the volunteer and some career first responders.
- Cleaner patching between the VHF system and the state VIPER system.
- Dispatching from a remote location such as the purposed backup center at Hickory PD or even the Emergency Services mobile command post.
- Shorten repair time if there is any type of equipment failure.

# Operational Expenses

- \$77,000 - Annual maintenance expense for the current VHF system.
- \$50,500 - Estimated annual maintenance expense for the simulcast VHF system. (First year is included in the purchase \$35,000)
  - \$26,500 - Estimated annual maintenance expense savings.
- \$48,120 - Annual T1 connectivity expense for the current VHF system.
- \$0.00 - Estimated annual T1 connectivity expense for the simulcast VHF system. (simulcast system will not require T1 connectivity)
  - \$48,120 - Estimated annual T1 connectivity expense savings.
- \$4,900 - Annual power expense for the current VHF system.
- \$2,300 - Estimated annual power expense for the simulcast VHF System.
  - \$2,600 - Estimated annual power expense savings.
- \$102,220 - Total estimated annual savings for the first year.
- \$77,220 - Total estimated annual savings for years two thru five.
  - \$411,100 - Total estimated savings over five years.

# What difference will the field users see

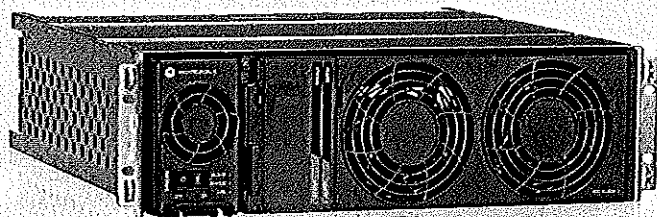
- Shortened dispatch time on multi-agency incidents.
- More uniform pager coverage throughout the county.
- More stable system during adverse weather conditionals. Telephone company T1 connections will no longer be used.
- IF they are still using a VHF radio, they will not have to change anything they are currently doing.

# Options

- Option 1 – Purchase the simulcast VHF system (minimal risk).
  - Most reliable and maintainable option.
- Option 2 – Purchase components of the simulcast VHF system over multiple years (high risk).
  - Changing technology could increase the cost of the system.
- Option 3 – Replace the current VHF system with new components (high risk).
  - System is obsolete. Manufacturers no longer in business.
- Option 4 – Keep current system in place as it is today (high risk).
  - System components failing and not able to be replaced.

## **Attachment – 2**

### **Question 5**



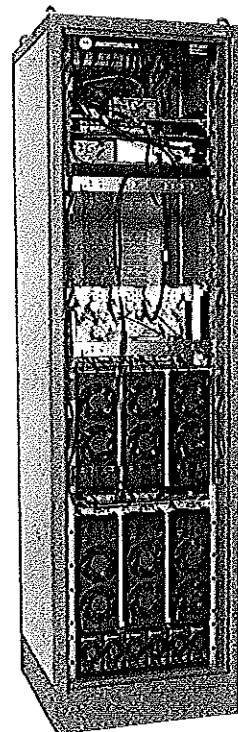
**FLEXIBLE DESIGN – SOFTWARE CONFIGURABLE**

# G-SERIES SITE EQUIPMENT FOR ASTRO® 25 SYSTEMS

Motorola's ASTRO 25 networks are designed to meet the current and future requirements for Project 25 (P25) solutions. Our G-series portfolio of RF stations, receivers, site controllers and comparators is designed to maximize channel up-time, simplify system technology refresh, enable smaller, more efficient site design and minimize the cost of ownership.

Our G-series equipment is designed so that many upgrades, migrations, and conversions can be completed with only software installations, allowing new features to be quickly added to your existing system with a simple download. You can easily add P25 TDMA and Dynamic Channel Assignment; Information Assurance, Network Security and system release updates. Furthermore, you can migrate from conventional to trunking, 3600 to P25 trunking and from 12.5 kHz P25 FDMA to 6.25e kHz P25 TDMA.

Designed to carry your needs into the future, the G-series hardware platform has built-in functionality and flexibility with an AC/DC - 48VDC power supply and two-branch receive diversity capacity, as well as a linear power amplifier for improved coverage in P25 FDMA Simulcast systems.



GTR 8000 Expandable  
Site Subsystem



## **SIMULCAST**

Motorola is an industry leader in simulcast system solutions with more mission critical systems fully operational in the field than any other LMR systems provider. The G-series site equipment is designed with simulcast system design and functionality in mind. GTR 8000 Base Radios feature a linear modulation (LSM) that provides industry-leading P25 coverage in VHF, UHF, 700/800 MHz and 900 MHz. LSM enables simulcast systems to be deployed with greater site spacing without sacrificing coverage or capability, resulting in fewer sites to build and maintain. It also allows current systems to deploy IP-based simulcast without the need to add fill-in sites.

## **SERVICING MADE EASY**

G-series site equipment has many features built in to support ease of service. Six basic modules create the entire G-series platform resulting in reduced spare parts inventory. Modules have front access to improve serviceability with hot-swap support to ensure channels are back on the air in minimum possible time. Standard Battery Revert and Charging capability is built into every G-series power supply. Integrating these capability eliminates the need for a large uninterrupted power supply and saves valuable site space.

# **SYSTEM CONFIGURATIONS**

## **ASTRO 25 TRUNKING**

GTR 8000 Base Radios, GPW 8000 Receivers, GCP 8000 Site Controllers, and GCM 8000 Comparators are the building blocks of an ASTRO® 25 trunking system. Site repeater and simulcast system architectures in P25 FDMA and P25 TDMA offer the flexibility to deliver communications that fit user requirements.

G-series equipment is capable of both Project 25 FDMA and Project 25 TDMA in ASTRO 25 trunking systems. Dynamic Channel Assignment is optional for GTR 8000 Base Radios as part of the ASTRO 25 Dynamic Dual Mode system option, and offers seamless interoperability between P25 FDMA and P25 TDMA users, dynamically allocating a call based on available resources without any user intervention or awareness. The P25 TDMA trunking features are offered across the complete trunking portfolio to address the needs of users ranging from single site to statewide radio systems.

ASTRO 25 trunking is a fully scalable solution from as small as a single trunking site to large statewide systems that include a mix of site repeater and simulcast operation as well as additional data and mutual aid overlays. G-series sites support tri-band operation utilizing APX™ 8000 all-band P25 portable radios. This will allow a talkgroup to operate across all three bands at a single RF site. The trunking RF site tri-band configuration can be deployed in any multi-site or repeater RF site configuration that uses G-Series equipment.

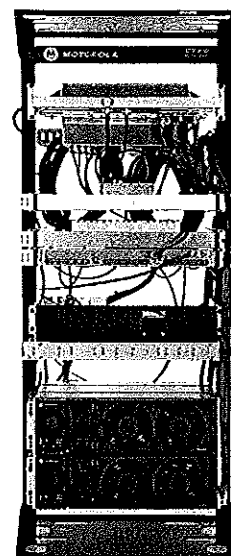
G-series equipment configured for trunking supports both

A built-in GPS with frequency reference distribution is optionally available on the GTR 8000 Expandable Site Subsystem, which can significantly reduce or eliminate site visits.

Software upgrades are more stable and performed with less downtime in the GTR 8000 base radio. One version of software can run actively while another version is downloading. Using a remote IP connection, the user can decide when to switch between the two versions of software allowing the system manager to prepare for software downloads.

## **OPTIMIZED NETWORK SECURITY**

Information Assurance capabilities are standard with G-series equipment and can be configured or disabled depending on your specific system maintenance and security requirements. G-series products provide the necessary boundary defense capabilities required in mission critical infrastructure today including local user accounts and password controls, user privilege model support (two levels), local and remote access services controls, secure shell services support, SNMPv3, central authentication, general operating system and network services hardening, and device test services controls.



GTR 8000 Site Subsystem

V.24 circuit-based architectures as well as state-of-the-art IP-based system designs. GPW 8000 Receivers and GCM 8000 Comparators improve the in-bound subscriber signal coverage and re-broadcast a quality improved composite signal respectively in simulcast or receiver voting systems.

Motorola offers industry-leading channel resiliency in trunking systems with the GTR 8000 Expandable Site Subsystem. The architecture ensures that no single point of failure can remove more than one channel from service at the RF sites. Plus, the sites are simultaneously simplified through the integration of base station frequency references, Ethernet LAN switches and network gateways.

Motorola also offers a turn-key P25 trunking site with the ASTRO 25 Express system, a GTR 8000 Expandable Site Subsystem designed to operate as a single-site solution. Stations, site controllers, Ethernet switches, RF combiners and multicouplers are all integrated into a single rack or cabinet. If more capacity is required, additional cabinets can be added to the site.

## **ASTRO 25 CONVENTIONAL**

ASTRO® 25 Conventional is a feature-rich conventional system solution on the common-hardware G-series platform. The GTR 8000 Base Radios, GPW 8000 Receivers, and GCM 8000 Comparators can be used together or separately to build everything from a small, single repeater site to a large, countywide or statewide receiver-voting or simulcast conventional system.

## DATA SHEET

### G-SERIES SITE EQUIPMENT FOR ASTRO 25 SYSTEMS

The hardware will support IP-only circuit system design while connectivity with consoles can be either IP-based or 4-wire depending on migration plans and system specific operational requirements. GTR 8000 can be configured for either base station or standalone repeater operation. GPW 8000 Receivers and GCM 8000 Comparators improve the inbound subscriber signal coverage and re-broadcast a quality improved composite signal respectively in simulcast or receiver voting systems.

Sixteen configurable channel personalities enable the station to change channel bandwidth and frequency setting via IP or v.24 commands. General purpose I/O offers 12 logic inputs and 12 logic outputs that can be programmed via the user-friendly GTR 8000 Configuration Service Software (Windows® application) for a highly customized alarm reporting solution and station operation.

ASTRO 25 Conventional can also be deployed as a system overlay with ASTRO 25 Trunking systems by adding a GTR 8000 Base Radio configured for conventional operation to an existing trunking GTR 8000 Expandable Site Subsystem and sharing the common wide-area network connections as well as RF cavity combiners and receiver multicouplers.

## ANALOG CONVENTIONAL

The GTR 8000 and GPW 8000 products support analog conventional operation in 800 MHz, UHF 380-524 MHz and VHF 136-174 MHz. Analog standalone repeater, receiver voting and simulcast capabilities are available and include a 100 ppb/2 year internal frequency reference for optimal audio performance on 12.5 KHz analog channels.

The G-series equipment provides full support for analog 4-wire circuit connectivity. Over an IP network, technicians can remotely adjust line level settings and tone remote operational modes. 16 configurable analog personalities enable the station to change channel bandwidth and frequency settings via TRC (tone remote control) or WildCard general purpose I/O. The general purpose I/O offers 12 logic inputs and 12 logic outputs, which can be programmed via the user friendly Configuration Service Software (Windows® application) for a highly customized alarm-reporting solution and station operation.

## MIXED ANALOG/DIGITAL CONVENTIONAL

G-Series site equipment can be configured to simultaneously

support both analog and digital communication. This mixed mode form of operation allows the system to support a mixed fleet of analog and digital subscribers as a flexible long term solution, or as part of a gradual migration path from analog to digital. Mixed mode operation is supported on conventional standalone repeaters, receiver voting and simulcast systems.

## ASTRO 25 DATA

ASTRO 25 trunking and conventional systems can be enabled with P25 Integrated Data functionality so users can leverage their investment in voice infrastructure for basic data needs. Enhanced Data is a software feature in systems with Integrated Data. Enhanced Data optimizes the data channels in an ASTRO 25 system for data applications that require short inbound data messages like location, telemetry and biometrics, and can improve data efficiency by 12x. For example, with Enhanced Data, customers can set quicker location polling rates for a larger number of users on their system, therefore providing better real-time view to resource locations. Based on customer requirements, ASTRO 25 Enhanced Data allows for data to be prioritized over voice, protecting channels for data use and enabling agency shared data channels. If higher data throughput is a requirement, Motorola offers HPD as an overlay on ASTRO 25 trunking systems to provide the same coverage footprint for both systems.

## 3600 TRUNKING

The GTR 8000 base radio supports 3600 trunking operation, enabling new future-ready base radios to be added to existing SmartZone systems with SmartX. The GTR 8000 is software upgradeable to P25 trunking when the time is right to migrate to P25. 3600 trunking operation is available on both simulcast and intellirepeater systems, in either analog or digital mode.

The GTR 8000 supports WildCard general purpose I/O with 12 logic inputs and 12 logic outputs, which can be programmed via the user friendly Configuration Service Software (Windows application) for a highly customized alarm-reporting solution and station operation.

Using an IP connection, the GTR 8000 can be monitored, configured and software updated from a convenient, remote location.

# G-SERIES SITE EQUIPMENT PRODUCTS

## GTR 8000 EXPANDABLE SITE SUBSYSTEM

A space-efficient, single rack design, the GTR 8000 Expandable Site Subsystem (ESS) integrates up to six GTR 8000 Base Radios, redundant GCP 8000 Site Controllers or GPB 8000 Reference Distribution Modules, redundant Ethernet LAN switches, redundant network gateways, transmit combiners, and receiver multicouplers. This enables

a highly resilient architecture that provides industry-leading protection against single points of failure at the RF sites while providing a turn-key site solution that minimizes site cabling connections and installation effort.

It supports ASTRO 25 simulcast and site repeater trunking operation, 3600 simulcast and intellirepeater trunking operation with SmartX, HPD, and P25 digital and analog conventional operation. When ordered as an ASTRO 25

## DATA SHEET

### G-SERIES SITE EQUIPMENT FOR ASTRO 25 SYSTEMS

Express System, the GTR 8000 Expandable Site Subsystem is the industry's only turn-key, single-site Project 25 trunking solution.

## GTR 8000 BASE RADIO

Designed to support ASTRO 25 trunking simulcast, 3600 trunking simulcast with SmartX, HPD, and P25 and analog conventional operation, GTR 8000 Base Radios offer additional design flexibility for infrastructure sites where equipment may have to be interchanged individually during a technology refresh or when used as a station replacement for QUANTAR™ or STR 3000 stations.

## GPW 8000 RECEIVER

In conventional and trunking voting or simulcast voting applications, the GPW 8000 Receiver increases in-bound signal coverage for subscribers. Physical space is optimized at receive-only sites with the GPW 8000 space efficient dual receive module design.

## GTR 8000 SITE SUBSYSTEM

This configuration supports HPD with the redundant site controllers and GTR 8000 Base Radio configured for data operation. The specially designed low-loss RF system ensures that HPD signal coverage equals the coverage available from the integrated voice and data

solution allowing complete data coverage in an ASTRO® 25 system without the inconvenience of fill-in sites for coverage holes.

## GCP 8000 SITE CONTROLLER

The GCP 8000 Site Controller is used at an ASTRO 25 trunking site to assign voice and data channels, manage and report alarms on site resources, provide Ethernet switching capability, and provide a frequency reference to GTR 8000 Base Radios. The frequency reference is provided either via a GPS receiver or an ultra high stability oscillator. The nature of these frequency references eliminates or minimizes site visits for frequency tuning servicing.

## GCM 8000 COMPARATOR

The GCM 8000 Comparator supports up to 32 trunking sub-sites and up to 64 conventional sites for simulcast or receiver voting. It performs frame-by-frame voting on multiple received signals and recombines the frames to produce a signal with the best possible audio quality. GPS launch-delay timing ensures seamless broadcast of the voted frames from multiple voice signals into one high-quality transmit signal. GPS launch-delay timing ensures seamless broadcast of data packets from multiple voice signals into one high-quality transmit signal.

## GTR 8000 EXPANDABLE SITE SUBSYSTEM (SQM01SUM7054A)

### GENERAL PERFORMANCE

HPD		INTEGRATED VOICE & DATA				
700/800 MHz		900 MHz	700/800 MHz	UHF: 380-524 MHz	VHF: 136-174 MHz	High Power 800 MHz
Number of Channels	1-5	1-6	1-6	1-6	1-6	2-6
Height with 7.5 ft Rack	90.4 in (230 cm)	90.4 in (230 cm)	90.4 in (230 cm)	90.4 in (230 cm)	90.4 in (230 cm)	90.4 in (230 cm)
Footprint (W x D) with 7.5 ft Rack	20.5 x 23.5 in (52 x 60 cm)	20.5 x 23.5 in (52 x 60 cm)	20.5 x 23.5 in (52 x 60 cm)	20.5 x 23.5 in (52 x 60 cm)	20.5 x 23.5 in (52 x 60 cm)	20.5 x 23.5 in (52 x 60 cm)
Weight (fully configured) with 7.5 ft Rack	520 lbs (235 kg)	575 lbs (260 kg)	520 lbs (235 kg)	UHF 380-435 MHz: 475 lbs (215 kg) UHF 450-512 MHz: 565 lbs (260 kg)	475 lbs (215 kg)	538 lbs (246 kg)
Temperature Range	-22 to 140 °F (-30 to 60°C)	-22 to 140 °F (-30 to 60°C)	-22 to 140 °F (-30 to 60°C)	-22 to 140 °F (-30 to 60°C)	-22 to 140 °F (-30 to 60°C)	-22 to 140 °F (-30 to 60°C)
Power Requirements	AC: 90-264 VAC, 47-63 Hz DC: 43.2-60 VDC	AC: 90-264 VAC, 47-63 Hz DC: 43.2-60 VDC	AC: 90-264 VAC, 47-63 Hz DC: 43.2-60 VDC	AC: 90-264 VAC, 47-63 Hz DC: 43.2-60 VDC	AC: 90-264 VAC, 47-63 Hz DC: 43.2-60 VDC	AC: 90-264 VAC, 47-63 Hz DC: 43.2-60 VDC
Power Consumption (fully configured)*						
Power Efficiency Package	2200 W	C4FM: 3700 W LSM, H-DPSK: 4100 W	C4FM, FM: 2755 W LSM, H-DPSK: 2900 W C4FM, FM: 2900 W LSM, H-DPSK: 3100 W	C4FM, FM: 2325 W LSM, H-DPSK: 2500 W C4FM, FM: 2500 W LSM, H-DPSK: 2700 W	C4FM, FM: 2500 W LSM, H-DPSK: 2100 W C4FM, FM: 2650 W LSM, H-DPSK: 2200 W	C4FM, FM: 4310 W
Standard	2400 W	C4FM: 3700 W LSM, H-DPSK: 4100 W				C4FM, FM: 4580 W
Antenna Connectors	TX: 7/16 Female RX: N Female	TX: 7/16 or N Female RX: N Female	TX: 7/16 Female RX: N Female	TX: 7/16 Female RX: N Female	TX: N Female RX: BNC Female	TX: N Female RX: N Female
Channel Spacing	25 kHz	12.5 kHz	12.5/25 kHz	12.5/25 kHz	12.5/15/25/30 KHz	12.5/25 kHz
Transmit Combiner Spacing	160 kHz	12.5 kHz (Hybrid) 150 kHz (Cavity)	150 kHz	150 kHz (450 - 512 MHz) N/A (380-450, 512-524 MHz)	N/A	N/A
Modulation	TX: 64QAM, 16QAM, QPSK RX: 64QAM, 16QAM, QPSK	TX: C4FM, LSM, H-DPSK RX: C4FM, H-CPM	TX: C4FM, LSM, H-DPSK, FM RX: C4FM, H-CPM, FM	TX: C4FM, LSM, H-DPSK, FM RX: C4FM, H-CPM, FM	TX: C4FM, LSM, H-DPSK, FM RX: C4FM, H-CPM, FM	TX: FM, C4FM RX: C4FM, H-CPM, FM
Frequency Stability	GPS synchronized	Repeater Site: 100 ppb/2 yr Simulcast (Multisite): GPS synchronized	Repeater Site: 100 ppb/2 yr Simulcast (Multisite): GPS synchronized	Repeater Site: 100 ppb/2 yr Simulcast (Multisite): GPS synchronized	Repeater Site: 100 ppb/2 yr Simulcast (Multisite): GPS synchronized	Repeater Site: 100 ppb/2 yr Simulcast (Multisite): GPS synchronized

\*Power consumption shown reflects fully configured subsystems. Actual power consumption may be lower based on your configuration. Refer to your Motorola Solutions sales and engineering team for the power consumption of your specific configuration.

Specifications subject to change without notice.

## GTR 8000 EXPANDABLE SITE SUBSYSTEM (SQM01SUM7054A) CONTINUED

### TRANSMITTER (CABINET OUTPUT)\*

HPD		INTEGRATED VOICE & DATA				
700/800 MHz		900 MHz	700/800 MHz	UHF: 380-524 MHz	VHF: 136-174 MHz	High Power 800 MHz
Frequency Range	764-776, 851-870 MHz	935-941 MHz	764-776, 851-870 MHz	380-435, 435-524 MHz	136-174 MHz	851-870 MHz
Average Power output per channel	1-20 W	2-way Hybrid: 1-37 W 3-way Hybrid: 1-22 W 4-way Hybrid: 1-17 W 5-way Hybrid: 1-12 W 6-way Hybrid: 1-10 W	1-40 W	C4FM, FM: 2-110 W (380-450, 512-524 MHz) LSM, H-DQPSK: 2-100 W (380-450, 512-524 MHz) C4FM, FM: 1-33 W (450-512 MHz) LSM, H-DQPSK: 1-30 W (450-512 MHz)	C4FM, FM: 2-100 W LSM, H-DQPSK: 2-60 W	13-134 W
Modulation Fidelity	N/A	5%	5%	5%	5%	5%
EVM	10%	N/A	N/A	N/A	N/A	N/A
Intermodulation Attenuation	80 dB	80 dB	80 dB	80 dB (450-512 MHz) 65 dB (380-450, 512-524 MHz)	55 dB	55 dB
Spurious and Harmonic Emissions Attenuation	90 dB	90 dB	90 dB	90 dB	90 dB	90 dB
Analog FM Hum and Noise						
12.5 kHz	N/A	N/A	45 dB	45 dB	45 dB	
25 kHz	N/A	N/A	50 dB	50 dB	50 dB	
Analog Audio Distortion	N/A	N/A	Less than 2% at 1000 Hz	Less than 2% (1% typical) at 1000 Hz	Less than 2% (1% typical) at 1000 Hz	Less than 2% at 1000 Hz
Emissions Designators	17K7D7D	8K7001E, 8K7001D 8K7001W, 8K10F1E 8K10F1D, 8K10F1W 9K8007E, 9K8007D 9K8007W, 10K0F1D 11K0F3E, 16K0F1D 16K0F3E	8K7001E, 8K7001D 8K7001W, 8K10F1E 8K10F1D, 8K10F1W 10K0F1E, 10K0F1D 10K0F1W, 9K8007E 9K8007D, 9K8007W 17K7D7D, 16K0F1D 16K0F3E, 11K0F3E 14K0F1D, 14K0F3E 21K7D7E, 21K7D7D 21K7D7W	8K7001E, 8K7001D 8K7001W, 8K10F1E 8K10F1D, 8K10F1W 9K8007E, 9K8007D 9K8007W, 10K0F1D 11K0F3E, 16K0F1D 16K0F3E	8K7001E, 8K7001D 8K7001W, 8K10F1E 8K10F1D, 8K10F1W 9K8007E, 9K8007D 9K8007W, 10K0F1D 11K0F3E, 16K0F1D 16K0F3E	8K10F1E, 8K10F1D, 8K10F1W, 10K0F1E10K0F1D, 10K0F1W16K0F1D, 16K0F3E11K0F3E, 14K0F1D14K0F3E

### RECEIVER (TOP OF CABINET)

HPD		INTEGRATED VOICE & DATA				
700/800 MHz		900 MHz	700/800 MHz	UHF: 380-524 MHz	VHF: 136-174 MHz	High Power 800 MHz
Frequency Range	792-825 MHz	896-902 MHz	792-825 MHz	380-435, 435-524 MHz	136-174 MHz	806-825 MHz
Analog Sensitivity 12 dB SINAD	N/A	N/A	12.5 kHz: -123 dBm 25 kHz: -122 dBm	12.5 kHz: -117 dBm (380-450, 512-524 MHz) 12.5 kHz: -121.5 dBm (450-512 MHz) 25 kHz: -116 dBm (380-450, 512-524 MHz) 25 kHz: -120.5 dBm (450-512 MHz)	12.5/15 kHz: -118 dBm 25/30 kHz: -117 dBm	12.5 kHz: -123 dBm 25 kHz: -122 dBm
Digital Sensitivity 1% Bit Error Rate Static (BER)						
64 QAM	-101 dBm	N/A	N/A	N/A	N/A	N/A
16 QAM	-109 dBm	N/A	N/A	N/A	N/A	N/A
DPSK	-115 dBm	N/A	N/A	N/A	N/A	
Digital Sensitivity 5% Bit Error Rate Static (BER)						
C4FM	N/A	-123 dBm	-123 dBm	-117 dBm (380-450, 512-524 MHz) -121.5 dBm (450-512 MHz) -115 dBm (380-450, 512-524 MHz) -119.5 dBm (450-512 MHz)	-118 dBm	-123 dBm
H-CPM	N/A	-118.5 dBm	-121 dBm		-116 dBm	N/A
Intermodulation Rejection	75 dB**	80 dB	80 dB	80 dB	80 dB	80 dB
Digital Adjacent Channel Rejection	50 dB**	60 dB	60 dB	60 dB	60 dB	60 dB

\* Includes Transmitter RF Distribution System for 900 MHz, 700/800 MHz, and UHF 450-512 MHz. Does not include Transmitter RF Distribution System for VHF, UHF 380-450, 512-524 MHz and High Power 800 MHz.

\*\* Reference signal is QPSK

Specifications subject to change without notice.

## GTR 8000 EXPANDABLE SITE SUBSYSTEM (SQM01SUM7054A) CONTINUED

### RECEIVER (TOP OF CABINET)

HPD		INTEGRATED VOICE & DATA				
700/800 MHz		900 MHz	700/800 MHz	UHF: 380-524 MHz	VHF: 136-174 MHz	High Power 800 MHz
Analog Adjacent Channel Rejection (EIA603)						
Analog 12.5 kHz	N/A	N/A	75 dB	75 dB	75 dB	75 dB
Analog Adjacent Channel Rejection (TIA603D)						
Analog 12.5 kHz	N/A	N/A	50 or 60 dB (adjustable)	50 or 60 dB (adjustable)	50 or 60 dB (adjustable)	50 or 60 dB (adjustable)
Analog 25 kHz	N/A	N/A	80 dB	80 dB	80 dB	80 dB
Spurious and Image Response Rejection		100 dB	100 dB	85 dB (380-435 MHz) 100 dB (450-512 MHz)	90 dB	100 dB
Analog Audio Response		N/A	+1, -3 dB from 6 dB per octave de-emphasis; 300-3000 Hz referenced to 1000 Hz at line output	+1, -3 dB from 6 dB per octave de-emphasis; 300-3000 Hz referenced to 1000 Hz at line output	+1, -3 dB from 6 dB per octave de-emphasis; 300-3000 Hz referenced to 1000 Hz at line output	+1, -3 dB from 6 dB per octave de-emphasis; 300-3000 Hz referenced to 1000 Hz at line output
Analog Audio Distortion		N/A	3% or 5% (adjustable)	3% or 5% (adjustable)	3% or 5% (adjustable)	3% or 5% (adjustable)
Analog FM Hum and Noise						
12.5 kHz	N/A	N/A	45 dB	45 dB	45 dB	45 dB
25 kHz	N/A	N/A	50 dB	50 dB	50 dB	50 dB
Intermediate Frequency		1st: 73.35 MHz 2nd: 2.16 MHz	1st: 73.35 MHz 2nd: 2.16 MHz	1st: 73.35 MHz 2nd: 2.16 MHz	1st: 44.85 MHz 2nd: 2.16 MHz	1st: 73.35 MHz 2nd: 2.16 MHz

### TRANSMITTER RF DISTRIBUTION SYSTEM

700/800 MHz Cavity		900 MHz Hybrid	UHF: 450-512 MHz Cavity
Frequency Range		764-776, 851-870 MHz	835-941 MHz
Insertion Loss (150 kHz spacing)		3.1 dB typ	2-way loss: 4.4 dB typ 3-way loss: 6.3 dB typ 4-way loss: 7.6 dB typ 5-way loss: 8.8 dB typ 6-way loss: 9.7 dB typ
Tx-Tx Isolation (150 kHz spacing)		32 dB	20 dB

### RECEIVER RF DISTRIBUTION SYSTEM

700/800/900 MHz		UHF: 450-512 MHz	
Frequency Range		792-825 MHz or 896-902 MHz	
Typical		Limit	
Noise Figure		3.8 dB	
Gain		13 dB	
3rd Order Output Intercept		21 dBm	
Amplifier Intercept		35 dBm	
Preselector Bandwidth		792-825 MHz or 896-902 MHz	
RF Input Connector Type		N	
RF Output Connector Type		BNC	

\* Includes Transmitter RF Distribution System for 900 MHz, 700/800 MHz, and UHF 450-512 MHz. Does not include Transmitter RF Distribution System for VHF, UHF 380-450, 512-524 MHz and High Power 800 MHz.

\*\* Reference signal is QPSK

Specifications subject to change without notice.

## GCP 8000 SITE CONTROLLER (T7038A)

### GENERAL PERFORMANCE

	HPD	INTEGRATED VOICE & DATA
Channel Capacity	5	Repeater Site: 28 Simulcast (Multicast): 30
Size (HxWxD)	5.25 x 19 x 18 in (133 x 483 x 457 mm)	5.25 x 19 x 18 in (133 x 483 x 457 mm)
Weight	40 lbs (18 kg)	40 lbs (18 kg)
Temperature Range	-22 to 140 °F (-30 to 60°C)	-22 to 140 °F (-30 to 60°C)
Rack Option	19 in standard rack mountable	19 in standard rack mountable
Frequency Stability	GPS Synchronized	Simulcast (Multisite): External
<b>ELECTRICAL</b>		
Power Requirements	AC: 90-264 VAC, 47-63 Hz DC: 43.2-60 VDC	AC: 90-264 VAC, 47-63 Hz DC: 43.2-60 VDC
Power Consumption	AC: 160 W DC: 80 W	AC: 130 W DC: 60 W

## GCM 8000 COMPARATOR (T7321A)

### GENERAL PERFORMANCE

	INTEGRATED VOICE & DATA
Channel Capacity	1 or 2
Size (HxWxD)	5.25 x 19 x 18 in (133 x 483 x 457 mm)
Weight	40 lbs (18 kg)
Temperature Range	-22 to 140 °F (-30 to 60°C)
Rack Option	19 in standard rack mountable
Time Stability	External Reference
<b>ELECTRICAL</b>	
Power Requirements	AC: 90-264 VAC 47-63Hz DC: 43.2-60 VDC
Power Consumption	AC: 1 module 130 W AC: 2 modules 160 W DC: 1 module 60 W DC: 2 modules 80 W

## GTR 8000 BASE RADIO (T7039A)

### GENERAL PERFORMANCE

	HPD	INTEGRATED VOICE & DATA			
	700/800 MHz	700/800 MHz	UHF: 380-524 MHz	VHF: 136-174 MHz	High Power 800 MHz
Size (HxWxD)	5.25 x 19 x 18 in (133 x 483 x 457 mm)	5.25 x 19 x 18 in (133 x 483 x 457 mm)	5.25 x 19 x 18 in (133 x 483 x 457 mm)	5.25 x 19 x 18 in (133 x 483 x 457 mm)	5.25 x 19 x 18 in (133 x 483 x 457 mm)
Weight	46 lbs (21 kg)	46 lbs (21 kg)	46 lbs (21 kg)	46 lbs (21 kg)	48 lbs (22 kg)
Temperature Range	-22 to 140 °F (-30 to 60°C)	-22 to 140 °F (-30 to 60°C)	-22 to 140 °F (-30 to 60°C)	-22 to 140 °F (-30 to 60°C)	-22 to 140 °F (-30 to 60°C)
Power Requirements	AC: 90-264 VAC, 47-63 Hz DC: 43.2-60 VDC	AC: 90-264 VAC, 47-63 Hz DC: 43.2-60 VDC	AC: 90-264 VAC, 47-63 Hz DC: 43.2-60 VDC	AC: 90-264 VAC, 47-63 Hz DC: 43.2-60 VDC	AC: 90-264 VAC, 47-63 Hz DC: 43.2-60 VDC
Power Consumption	325 W	C4FM, FM: 405 W LSM, H-DPSK: 425 W	C4FM, FM: 410 W LSM, H-DPSK: 445 W	C4FM, FM: 405 W LSM, H-DPSK: 315 W	C4FM, FM: 700 W
Power Efficiency Package	325 W	C4FM, FM: 430W LSM, H-DPSK: 470 W	C4FM, FM: 435 W LSM, H-DPSK: 455 W	C4FM, FM: 435 W LSM, H-DPSK: 345 W	C4FM, FM: 725 W
Standard					
Antenna Connectors TX	N female	N female	N female	N female	N female
Antenna Connectors RX	BNC female	BNC female N female **	BNC female N female **	BNC female N female **	BNC female N female **
Channel Spacing	25 kHz	12.5/25 kHz	12.5/25 kHz	12.5/15/25/30 kHz	12.5/25 kHz
Modulation	TX: 64QAM, 16QAM, QPSK RX: 64QAM, 16QAM, QPSK	TX: C4FM, LSM, H-DPSK, FM RX: C4FM, H-CPM, FM	TX: C4FM, LSM, H-DPSK, FM RX: C4FM, H-CPM, FM	TX: C4FM, LSM, H-DPSK, FM RX: C4FM, H-CPM, FM	TX: FM, C4FM RX: C4FM, H-CPM, FM
Frequency Stability	External Reference	100 ppb/2 yr or External Reference	100 ppb/2 yr or External Reference	100 ppb/2 yr or External Reference	100 ppb/2 yr or External Reference

### TRANSMITTER

	700/800 MHz	700/800 MHz	UHF: 380-435 MHz UHF: 435-524 MHz	VHF: 136-174 MHz	High Power 800 MHz
Frequency Range	764-776, 851-870 MHz	764-776, 851-870 MHz	380-435, 435-524 MHz	136-174 MHz	851-870 MHz
Power Output	2-50 W	2-100 W	C4FM, FM: 2-110 W H-DPSK, LSM: 2-100 W	C4FM, FM: 2-100 W H-DPSK, LSM: 2-60 W	15-150W
Electronic Bandwidth	Full Bandwidth	Full Bandwidth	Full Bandwidth	Full Bandwidth	Full Bandwidth
Modulation Fidelity	N/A	5%	5%	5%	5%
EVM	10%	N/A	N/A	N/A	N/A
Intermodulation Attenuation	80 dB	80 dB	65 dB	55 dB	55 dB
Spurious and Harmonic Emissions Attenuation	90 dB	90 dB	90 dB	90 dB	90 dB
Analog FM Hum and Noise					
12.5 kHz	N/A	45 dB	45 dB	45 dB	45 dB
25 kHz	N/A	50 dB	50 dB	50 dB	50 dB
Analog Audio Distortion	N/A	Less than 2% at 1000 Hz	Less than 2% (1% typical) at 1000 Hz	Less than 2% (1% typical) at 1000 Hz	Less than 2% at 1000 Hz
Emissions Designators	17K7D7D	8K70D1E, 8K70D1D, 8K70D1W 8K10F1E, 8K10F1D, 8K10F1W 10K0F1E, 10K0F1D, 10K0F1W 9K80D7E, 9K80D7D, 9K80D7W 17K7D7D, 16K0F1D, 16K0F3E 11K0F3E, 14K0F1D, 14K0F3E 21K7D7E, 21K7D7D, 21K7D7W	8K70D1E, 8K70D1D, 8K70D1W 8K10F1E, 8K10F1D, 8K10F1W 9K80D7E, 9K80D7D, 9K80D7W 10K0F1D, 11K0F3E, 16K0F1D 16K0F3E	8K70D1E, 8K70D1D, 8K70D1W 8K10F1E, 8K10F1D, 8K10F1W 9K80D7E, 9K80D7D, 9K80D7W 10K0F1D, 11K0F3E, 16K0F1D 16K0F3E	8K10F1E, 8K10F1D, 8K10F1W 16K0F1D, 16K0F3E, 11K0F3E 14K0F1D, 14K0F3

### RECEIVER

	700/800 MHz	700/800 MHz	UHF: 380-435 MHz UHF: 435-524 MHz	VHF: 136-174 MHz	High Power 800 MHz
Frequency Range	792-825 MHz	792-825 MHz	380-435, 435-524 MHz	136-174 MHz	806-825 MHz
Analog Sensitivity (12 dB SINAD)	N/A	12.5 kHz -118 dBm 25 kHz -117 dBm	12.5 kHz -118 dBm 25 kHz -117 dBm	12.5 kHz -119 dBm 25/30 kHz -118 dBm	12.5 kHz -118 dBm 25 kHz -117 dBm
Digital Sensitivity 1% Bit Error Rate Static (BER)					
64 QAM	-93 dBm	N/A	N/A	N/A	N/A
16 QAM	-104 dBm	N/A	N/A	N/A	N/A
QPSK	-111 dBm	N/A	N/A	N/A	N/A
Digital Sensitivity 5% Bit Error Rate Static (BER)					
C4FM	N/A	-118 dBm	-118 dBm	-119 dBm	-118 dBm
H-CPM	N/A	-116 dBm	-116 dBm	-117 dBm	-116 dBm

\* Reference signal is QPSK \*\* Optional Preselector  
Specifications subject to change without notice.

## GTR 8000 BASE RADIO (T7039A) CONTINUED

### RECEIVER

HPD		INTEGRATED VOICE & DATA			
700/800 MHz		700/800 MHz	UHF: 380-435 MHz UHF: 435-524 MHz	VHF: 136-174 MHz	High Power 800 MHz
Intermodulation Rejection	75 dB*	85 dB	85 dB	85 dB	85 dB
Digital Adjacent Channel Rejection	50 dB*	60 dB	60 dB	60 dB	60 dB
Analog Adjacent Channel Rejection (ELA603) Analog 12.5 kHz	N/A	75 dB	75 dB	75 dB	75 dB
Analog Adjacent Channel Rejection (TIA603D)					
Analog 12.5 kHz	N/A	50 or 60 dB (adjustable)	50 or 60 dB (adjustable)	50 or 60 dB (adjustable)	50 or 60 dB (adjustable)
Analog 25 kHz	N/A	80 dB	80 dB	80 dB	80 dB
Spurious and Image Response Rejection	85 dB*	85 dB 100 dB**	85 dB 100 dB**	90 dB 95 dB**	85 dB 100 dB**
Analog Audio Response	N/A	+1, -3 dB from 6 dB per octave de-emphasis, 300-3000 Hz referenced to 1000 Hz at line output	+1, -3 dB from 6 dB per octave de-emphasis, 300-3000 Hz referenced to 1000 Hz at line output	+1, -3 dB from 6 dB per octave de-emphasis, 300-3000 Hz referenced to 1000 Hz at line output	+1, -3 dB from 6 dB per octave de-emphasis, 300-3000 Hz referenced to 1000 Hz at line output
Analog Audio Distortion	N/A	3% or 5% (adjustable)	3% or 5% (adjustable)	3% or 5% (adjustable)	3% or 5% (adjustable)
Analog FM Hum and Noise					
12.5 kHz	N/A	45 dB	45 dB	45 dB	45 dB
25 kHz	N/A	50 dB	50 dB	50 dB	50 dB
Intermediate Frequency	1st: 73.35 MHz 2nd: 2.16 MHz	1st: 73.35 MHz 2nd: 2.16 MHz	1st: 73.35 MHz 2nd: 2.16 MHz	1st: 44.85 MHz 2nd: 2.16 MHz	1st: 73.35 MHz 2nd: 2.16 MHz

## GPW 8000 RECEIVER (T7540A)

### GENERAL PERFORMANCE

INTEGRATED VOICE & DATA						
	700/800 MHz		UHF: 380-435 MHz UHF: 435-524 MHz		VHF: 136-174 MHz	
Size (HxWxD)	5.25 x 19 x 18 in (133 x 483 x 457 mm)		5.25 x 19 x 18 in (133 x 483 x 457 mm)		5.25 x 19 x 18 in (133 x 483 x 457 mm)	
Weight	36 lbs (16 kg)		36 lbs (16 kg)		36 lbs (16 kg)	
Temperature Range	-22 to 140 °F (-30 to 60°C)		-22 to 140 °F (-30 to 60°C)		-22 to 140 °F (-30 to 60°C)	
Power Requirements						
AC	90-264 VAC, 47-63 Hz		90-264 VAC, 47-63 Hz		90-264 VAC, 47-63 Hz	
DC	43.2-60 VDC		43.2-60 VDC		43.2-60 VDC	
Power Consumption	1 Module	2 Module	1 Module	2 Module	1 Module	2 Module
AC — Power Efficiency Package	40 W	65 W	40 W	65 W	40 W	65 W
DC — Power Efficiency Package	30 W	50 W	30 W	50 W	30 W	50 W
AC	80 W	105 W	80 W	105 W	80 W	105 W
DC	50 W	75 W	50 W	75 W	50 W	75 W
Antenna Connectors RX	BNC female N female **		BNC female N female **		BNC female N female **	
Channel Spacing	12.5/25 kHz		12.5/25 kHz		12.5/15/25/30 kHz	
Modulation	C4FM, FM		C4FM, FM		C4FM, FM	
Frequency Stability	Conventional: 100 ppb/2 yr		Conventional: 100 ppb/2 yr		Conventional: 100 ppb/2 yr	

\* Reference signal is QPSK \*\* Optional Preselector

Specifications subject to change without notice.



## GPW 8000 RECEIVER (T7540A) CONTINUED

### RECEIVER

INTEGRATED VOICE & DATA - CONVENTIONAL			
	700/800 MHz	UHF: 380-435 MHz UHF: 435-524 MHz	VHF: 136-174 MHz
Frequency Range	732-825 MHz	380-435 MHz, 435-524 MHz	136-174 MHz
Analog Sensitivity 12 dB SINAD	12.5 kHz: -118 dBm 25 kHz: -117 dBm	12.5 kHz: -118 dBm 25 kHz: -117 dBm	12.5/15 kHz: -119 dBm 25/30 kHz: -118 dBm
Digital Sensitivity 5% Bit Error Rate Static (BER)			
C4FM	-118 dBm	-118 dBm	-119 dBm
H-CPM	-116 dBm	-116 dBm	-117 dBm
Intermodulation Rejection	85 dB	85 dB	85 dB
Digital Adjacent Channel Rejection	60 dB	60 dB	60 dB
Analog Adjacent Channel Rejection (EIA603)			
Analog 12.5 kHz	75 dB	75 dB	75 dB
Analog 25 kHz			
Analog Adjacent Channel Rejection (TIA603D)			
Analog 12.5 kHz	50 or 60 dB (adjustable)	50 or 60 dB (adjustable)	50 or 60 dB (adjustable)
Analog 25 kHz	80 dB	80 dB	80 dB
Spurious and Image Response Rejection	85 dB 100 dB*	85 dB 100 dB*	90 dB 95 dB*
Analog Audio Response	+1, -3 dB from 6 dB per octave de-emphasis; 300-3000 Hz referenced to 1000 Hz at line output	+1, -3 dB from 6 dB per octave de-emphasis; 300-3000 Hz referenced to 1000 Hz at line output	+1, -3 dB from 6 dB per octave de-emphasis; 300-3000 Hz referenced to 1000 Hz at line output
Analog Audio Distortion	3% or 5% (adjustable)	3% or 5% (adjustable)	3% or 5% (adjustable)
Analog FM Hum and Noise			
Analog 12.5 kHz	45 dB	45 dB	45 dB
Analog 25 kHz	50 dB	50 dB	50 dB
Intermediate Frequency	1st: 73.35 MHz 2nd: 2.16 MHz	1st: 73.35 MHz 2nd: 2.16 MHz	1st: 44.85 MHz 2nd: 2.16 MHz

\* Optional Preselector.

Specifications subject to change without notice.

## GTR 8000 SITE SUBSYSTEM (T7133A)

### GENERAL PERFORMANCE

HPD	
700/800 MHz	
Number of Channels	1
Height	27 RU, 50.4 in (128 cm)
Footprint (W x D)	20.9 x 25.4 in (53 x 64.5 cm)
Weight	225 lbs (102 kg)
Temperature Range	-22 to 140 °F (-30 to 60°C)
Power Requirements	AC: 90-264 VAC, 47-63 Hz DC: 43.2-60 VDC
Power Consumption (fully configured)	AC: 815 W DC: 495 W
Antenna Connectors TX	N Female
Antenna Connectors RX	N Female
Channel Spacing	25 kHz
Modulation	TX: 64QAM, 16QAM, QPSK RX: 64QAM, 16QAM, QPSK
Frequency Stability	GPS synchronized

### TRANSMITTER INCLUDING RFDS

HPD	
700/800 MHz	
Frequency Range	764-776, 851-870 MHz
Average Power output per channel	1-27 W
Electronic Bandwidth	Full Bandwidth
Error Vector Magnitude	10%
Spurious and Harmonic Emissions Attenuation	90 dB
Emissions Designators	17K7D7D

### RECEIVER INCLUDING RFDS

HPD	
700/800 MHz	
Frequency Range	792-825 MHz
Sensitivity 1% Bit Error Rate Static (BER)	
64 QAM	-101 dBm
16 QAM	-103 dBm
QPSK	-115 dBm
Intermodulation Rejection	75 dB*
Adjacent Channel Rejection	50 dB*
Spurious and Image Response Rejection	90 dB*
Intermediate Frequency	
1st	73.35 MHz
2nd	2.16 MHz
Preselector Bandwidth	792-825 MHz

\* Reference signal is QPSK.

Specifications subject to change without notice.

## FCC TYPE ACCEPTANCE

### FCC DESIGNATION

Frequency Range	Type	Power Output	Type Acceptance Number
136-174 MHz	Transmitter	2-100 W	ABZ89FC3790B, ABZ89FC3799B
136-174 MHz	Receiver	N/A	ABZ89FR3791B
406-435 MHz	Transmitter	2-110 W	ABZ89FC4821B
406-435 MHz	Receiver	N/A	ABZ89FR4822B
435-512 MHz	Transmitter	2-110 W	ABZ89FC4819B
435-512 MHz	Receiver	N/A	ABZ89FR4820B
764-776 MHz	Transmitter	2-100 W 2-50 W (HPD)	ABZ89FC5812B
851-870 MHz	Transmitter	2-100 W 2-50 W (HPD)	ABZ89FC5810B
792-825 MHz	Receiver	N/A	ABZ89FR5811B
935-941 MHz	Transmitter	2-120 W	ABZ89FC5823B
896-902 MHz	Receiver	N/A	ABZ89FR5824B
851-870 MHz	Transmitter	15-150W	ABZ89FC5825B

## EU REGULATORY COMPLIANCE

CE mark is available on the GCM 8000 Comparator (T7321A), GCP 8000 Site Controller (T7038A), GTR 8000 Base Radio (T7039A) and GPW 8000 Receiver (T7540A) in the following frequency ranges: UHF 380-525 MHz and VHF 136-174 MHz.

Specifications subject to change without notice.

Motorola Solutions, Inc. 1301 E. Algonquin Road, Schaumburg, Illinois 60196 U.S.A. [motorolasolutions.com/ASTR025](http://motorolasolutions.com/ASTR025)

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**Attachment – 3**

**Questions 6 and 30**

**RE: Another timeline request**

Randy Heaton [rheaton@wirelessnc.com]

**Sent:** Thursday, May 26, 2016 8:32 PM

**To:** Brian A Drum

It will take about 1 month to deliver the equipment and another month to get it installed and optimized.

---

**From:** Brian A Drum [mailto:BADRUM@catawbacountync.gov]

**Sent:** Thursday, May 26, 2016 3:36 PM

**To:** rheaton@wirelessnc.com

**Subject:** Another timeline request

Randy,

I am applying for a grant through the 911 board for some funding assistance for the purchase of the VHF simulcast system. Can you please provide an estimated amount of turn around time it will take from the moment we cut a PO for the VHF simulcast system until it would be delivered? Then once it is delivered, how long it will take for the system to be installed?

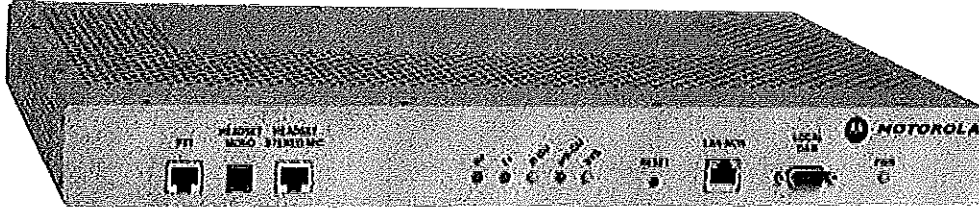
Thanks,  
Brian

## **Attachment – 4**

### **Question 7**

## 4/8 PORT GATEWAY UNIT (RGU/WSGU)

The gateway unit is the primary hardware component required to create a MOTOBRIDGE™ interoperability network and can be configured to serve as either a Radio Gateway Unit (RGU) or a WorkStation Gateway Unit (WSGU).



## RADIO GATEWAY UNIT

The RGU is used to connect up to 4/8 disparate radio systems into the MOTOBRIDGE™ solution. The RGU is small and robust which makes it possible to be mounted at a remote tower site, at the master site, or in a small radio closet at the command center.

### RGU Main Tasks

- Connects radio equipment to the system
- Performs all audio buffering and signal processing
- Performs VoIP packet-distribution that allows all users to get a replica of the audio from each radio
- Supports up to 4 or up to 8 access radios
- Connected to peers over LAN or IP
- Encrypts audio over the IP network

## WORKSTATION GATEWAY UNIT

### Workstation Gateway Unit (WS-GU) Main Tasks

- Perform dispatching functionality and/or interfaces with the Dispatch Console PC
- Can be defined also as RGU (RGU/WSGU) in small systems



## **Attachment – 5**

### **Question 8**



United States Census Bureau Population Estimates

	01-Apr-10		Population Estimate (as of July 1)					
	Census	Estimates Base	2010	2011	2012	2013	2014	2015
North Carolina	9,535,483	9,535,692	9,558,979	9,651,025	9,747,021	9,845,432	9,940,387	10,042,802
Catawba County	154,358	154,356	154,303	154,143	154,499	154,734	154,618	155,056
Town of Brookford	382	382	382	380	379	379	376	375
Town of Catawba	603	613	613	612	615	616	615	618
City of Claremont	1,352	1,352	1,351	1,351	1,356	1,359	1,360	1,365
City of Conover	8,165	8,183	8,182	8,175	8,209	8,220	8,220	8,248
City of Hickory	40,010	40,065	40,060	40,041	40,121	40,164	40,234	40,374
Town of Long View	4,871	4,871	4,867	4,868	4,877	4,884	4,878	4,895
Town of Maiden	3,310	3,320	3,319	3,329	3,332	3,356	3,360	3,369
City of Newton	12,968	12,968	12,965	12,949	12,998	13,016	12,996	13,035



## 2016 NORTH CAROLINA DEVELOPMENT TIER DESIGNATIONS

Since 2007 North Carolina has used a three-level system for designating development tiers. The designations, which are mandated by state law, determine a variety of state funding opportunities to assist in economic development. This 2016 report documents the process for calculating tiers and explains reasons that specific counties will change tiers. A North Carolina tier map and tier calculations are included for reference.

### How Tier Rankings Are Calculated

The Development Tier Designation statute ([§143B-437.08](#)) provides specific guidelines for calculating annual tier rankings. This process assigns each county to a designation of Tier One (most distressed), Tier Two, or Tier Three (least distressed). Assuming no ties in rankings, the statute requires **40 Tier One, 40 Tier Two, and 20 Tier Three** counties each year. In the event of a tie for the final position as a Tier One or Tier Two county, both counties will be placed in the lower tier.

### Tier Rankings use Four Factors

- **Average unemployment rate** for the most recent twelve months for which data are available (October 2014 – September 2015, NC Dept. of Commerce LAUS)
- **Median household income** for the most recent twelve months for which data are available (2013, U.S. Census SAIP)
- **Percentage growth in population** for the most recent 36 months for which data are available (July 2011 – July 2014, NC Office of State Budget & Management)
- **Adjusted property tax base per capita** for the most recent taxable year (FY 2015-16, NC Dept. of Public Instruction)

Each county is ranked from 1 to 100 on each variable, making the highest possible *County Rank Sum* 400, and the lowest 4. After calculating the *County Rank Sum*, counties are then ranked from most distressed (1) to least distressed (100) in order to determine their *Economic Distress Rank*.

### Tier Adjustments for Small and Impoverished Counties

The Development Tier Designation statute further specifies automatic qualifying criteria for Tier One and Tier Two status:

- Tier One Automatic Qualifiers
  - A county must be Tier 1 for at least two consecutive years
  - A county with less than 12,000 people
  - A county with a population less than 50,000 people **AND** a poverty rate of 19 percent or greater.
- Tier Two Automatic Qualifier
  - A county with a population less than 50,000 people

After taking these qualifiers into account, counties are ranked from 1 to 100 to determine *Adjusted County Rank*, which determines final tier designation. All components of this process are consistent with the methodology designated in the general statutes.

## County Tier Changes in 2016

Eight counties will change tiers in 2016: Caldwell, Guilford, Haywood, McDowell, Rockingham, Surry, Wilson, and Yancey Counties. This section provides the reasons for each of these changes.

### Counties Moving to a Less Distressed Tier Designation

**Guilford County (Tier 2 to Tier 3):** From 2007 to 2012, Guilford County held a Tier Three designation. It qualified as a Tier Two county in 2013, returned to Tier Three status in 2014, and was assigned to Tier Two status in 2015 (with an adjusted county rank of 80, making it the highest-ranking Tier Two county). For the 2016 rankings, Guilford County has an economic distress rank of 75. After taking into consideration legislatively required adjustments to the 2016 tiers for counties with small populations and high poverty rates, Guilford County had an adjusted county rank of 81 and was shifted out of Tier Two and into Tier Three.

**Rockingham County (Tier 1 to Tier 2):** From 2007 to 2015, Rockingham County held a Tier One designation. In 2016, Rockingham County had an economic distress rank of 25. After taking into consideration legislatively required adjustments to the 2016 tiers for counties with small populations and high poverty rates, Rockingham County had an adjusted county rank of 41, shifting it out of Tier One and into Tier Two. Rockingham County's population is above 50,000, disqualifying it from any tier adjustments.

**Surry County (Tier 1 to Tier 2):** From 2007 to 2012, Surry County held a Tier One designation, before moving to Tier Two status in 2013. In 2014 and 2015, Surry County returned to a Tier One designation. In 2016, Surry County has moved to a Tier Two designation. Surry County received a 44 in the 2016 economic distress rankings, a large improvement from its ranking of 28 in 2015. This improvement was due to positive population growth (as opposed to negative growth in the 2015 rankings) as well as a large improvement in the 12-month unemployment rate between the two periods, moving from 6.96 percent to 5.46 percent and ranking 75 out of 100 counties in this indicator. Surry County's population is above 50,000, disqualifying it from any tier adjustments.

**Wilson County (Tier 1 to Tier 2):** From 2007 to 2009, Wilson County held a Tier One designation, moved to Tier Two during 2010 through 2012, and returned to Tier One in 2013 through 2015. In 2016, Wilson County had an economic distress rank of 26. After taking into consideration legislatively required adjustments to the 2016 tiers for counties with small populations and/or high poverty rates, Wilson County had an adjusted county rank of 42, shifting it out of Tier One and into Tier Two. Wilson County experienced a gain in Median Household Income since the last tier designation, moving from 40 to 53 out of 100 counties in this indicator. The 12-month unemployment rate slightly improved but still remains the 7<sup>th</sup> highest county in this indicator. Wilson County's population is above 50,000, disqualifying it from any tier adjustments.

### Counties Moving to a More Distressed Tier Designation

**Caldwell County (Tier 2 to Tier 1):** From 2007 to 2014, Caldwell County held a Tier One designation and moved to Tier Two status in 2015. Caldwell County now ranks 20<sup>th</sup> in economic distress, and after taking into consideration legislatively required adjustments for counties with small populations and high poverty rates, had an adjusted county rank of 39 and was designated a Tier One county. Because of the legislative requirement, Caldwell County will automatically be designated a Tier One county in 2017 as well.

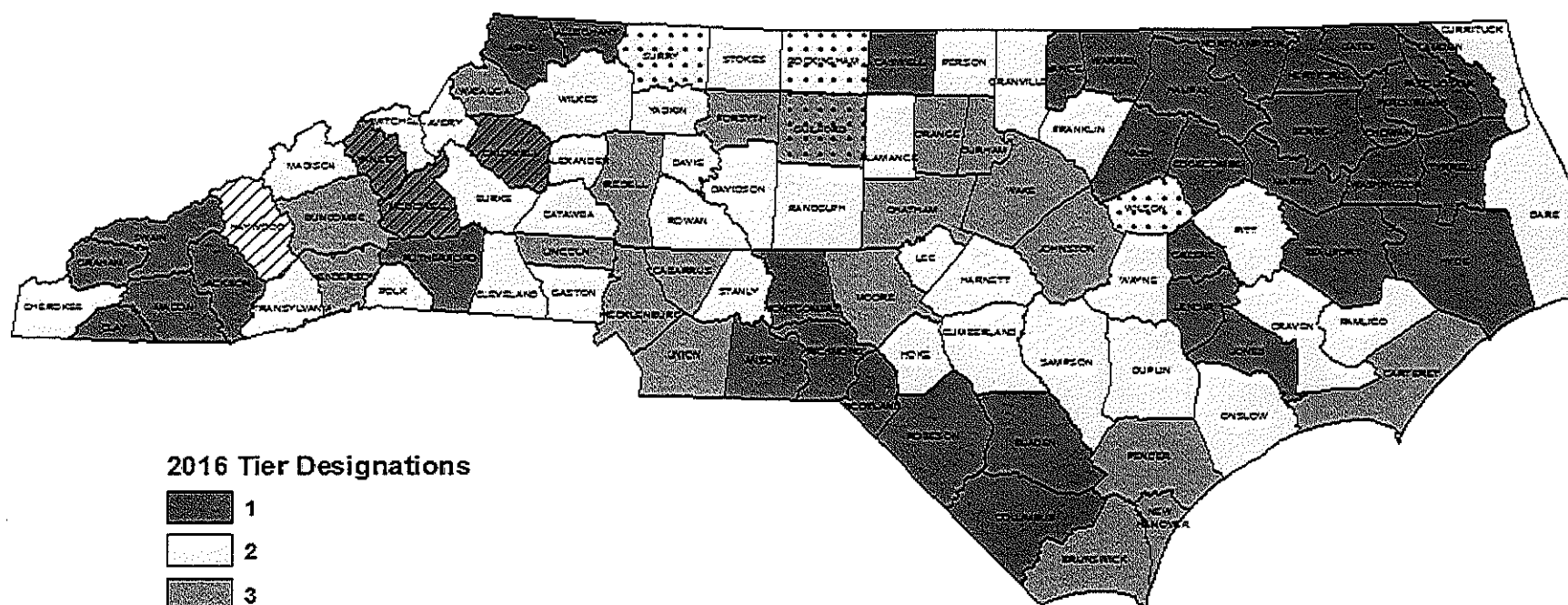
**Haywood County (Tier 3 to Tier 2):** From 2010 to 2012, Haywood County held a Tier Two designation. It qualified as a Tier Three county in 2013, returned to Tier Two status in 2014, and was a Tier Three county in 2015. In 2016, Haywood County has an economic distress rank of 74 out of 100, which was quite similar to its economic distress ranking of 80 in 2015. After taking into consideration legislatively required

adjustments made for counties with small populations and high poverty rates, Haywood County received an adjusted county rank of 80, making it the highest-ranking Tier Two county.

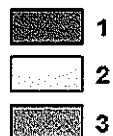
**McDowell County (Tier 2 to Tier 1):** In 2007 and 2008, McDowell County was a Tier One county, changing to a Tier Two county in 2009, returning to Tier One from 2010 to 2013, and then moving to Tier Two in 2013 through 2015. In 2016, McDowell County had an economic distress ranking of 44. However, due to having a population less than 50,000 and a poverty rate of 21.9 percent, it qualified for a tier adjustment to Tier One. Because of the legislative requirement, McDowell County will automatically be designated a Tier One county in 2017 as well.

**Yancey County (Tier 2 to Tier 1):** In 2007 and 2008, Yancey County was a Tier One County, changing to a Tier Two county from 2009 through 2011, returning to Tier One status in 2012 and 2013, and then to a Tier Two county in 2014 and 2015. In 2016, Yancey County had an economic distress ranking of 44, a decline from its ranking of 55 in 2015. However, due to having a population less than 50,000 and a poverty rate of 20.1 percent, it qualified for a tier adjustment to Tier One. Because of the legislative requirement, Yancey County will automatically be designated a Tier One county in 2017 as well.

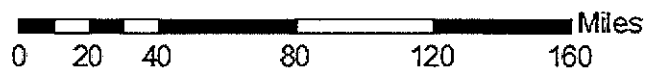
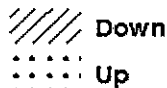
## 2016 County Tier Designations



## 2016 Tier Designations



### Tier Change from 2015



**NORTH  
CAROLINA**  
DEPARTMENT OF COMMERCE

# 2016 COUNTY DEVELOPMENT TIER RANKINGS (§ 143B-437.08)

NEW TIER	COUNTY	ECONOMIC INDICATORS								County Rank (Lowest = most distressed)	ECONOMIC DISTRESS RANK (#1 = most distressed)	TIER ADJUSTMENTS							Adjusted County Rank	FINAL 2016 TIERS
		Adjusted Property Tax Base Per Capita FY 2015-2016		Population Growth July 2011-July 2014		Median Household Income 2013		Unemployment 12 Mth Avg Oct14-Sept15				Population Less Prison July 2014	Poverty Rate 5-year 2009-2013	2014 Tier	2015 Tier	Pop <50,000 then top 80: pop <50,000 & poverty >15% then top 40	Pop <12,000 then top 40	Must be Tier One for two consec years		
		Value	Rank	% Change	Rank	Income	Rank	Rate	Rank											
	ALAMANCE	\$75,903	37	2.41%	73	\$43,001	64	5.17%	84	258	72	155,789	18.3%	2	2	72	72	72	79	2
	ALEXANDER	\$70,324	25	0.28%	48	\$46,064	77	4.95%	90	240	67	36,680	17.2%	2	2	41	41	41	53	2
	ALLEGHANY	\$147,485	88	0.26%	46	\$37,086	34	6.18%	41	209	58	11,099	19.8%	1	1	0	0	0	1	1
	ANSON	\$69,933	21	1.75%	66	\$33,443	10	6.40%	37	134	23	24,063	24.2%	1	1	0	0	0	1	1
	ASHE	\$148,836	90	0.06%	42	\$35,155	22	6.15%	42	196	49	27,448	21.1%	2	1	0	0	0	1	1
	AVERY	\$263,142	99	-0.49%	32	\$34,933	20	5.77%	56	207	54	16,142	18.0%	2	2	41	41	41	53	2
	BEAUFORT	\$119,186	75	-0.17%	39	\$39,043	41	6.55%	33	188	43	47,717	21.0%	1	1	0	0	0	1	1
	BERTIE	\$57,526	6	-3.37%	1	\$31,610	3	7.22%	24	34	2	19,371	23.4%	1	1	0	0	0	1	1
	BLADEN	\$76,073	38	0.28%	47	\$33,971	14	8.12%	12	111	16	35,113	25.8%	1	1	0	0	0	1	1
	BRUNSWICK	\$202,254	93	6.85%	99	\$47,799	81	6.93%	28	301	85	117,834	16.6%	3	3	85	85	85	86	3
	BUNCOMBE	\$117,232	73	3.15%	80	\$45,738	76	4.26%	100	329	91	250,468	17.1%	3	3	91	91	91	92	3
	BURKE	\$70,853	28	-0.85%	25	\$36,150	29	5.73%	62	144	28	88,465	20.0%	1	2	28	28	28	44	2
	CABARRUS	\$101,317	59	5.65%	94	\$55,046	94	5.10%	85	332	92	190,949	13.2%	3	3	92	92	92	93	3
↓	CALDWELL	\$73,463	34	-0.58%	30	\$34,811	19	6.32%	39	122	20	82,179	19.5%	1	2	20	20	20	39	1
	CAMDEN	\$101,348	60	1.79%	67	\$60,537	98	5.82%	53	278	77	10,251	6.0%	1	1	41	0	0	1	1
	CARTERET	\$207,719	95	2.57%	75	\$46,227	80	5.77%	55	305	86	69,050	14.4%	3	3	86	86	86	87	3
	CASWELL	\$68,659	19	-0.88%	23	\$37,122	35	6.25%	40	117	18	22,605	22.6%	1	1	0	0	0	1	1
	CATAWBA	\$103,472	63	0.64%	56	\$43,777	67	5.60%	68	254	71	155,590	15.2%	2	2	71	71	71	73	2
	CHATHAM	\$128,788	82	4.76%	91	\$56,981	95	4.57%	97	365	99	68,691	12.4%	3	3	99	99	99	99	3
	CHEROKEE	\$109,995	67	-0.28%	36	\$34,476	16	6.49%	34	153	30	27,451	17.9%	2	2	30	30	30	45	2
	CHOWAN	\$99,509	57	-0.89%	22	\$39,143	42	7.14%	26	147	29	14,636	29.0%	1	1	0	0	0	1	1
	CLAY	\$148,426	89	1.04%	61	\$37,078	33	5.93%	49	232	65	10,794	24.3%	1	1	0	0	0	1	1
	CLEVELAND	\$78,796	43	-0.31%	34	\$40,528	51	6.38%	38	166	32	97,920	19.3%	2	2	32	32	32	47	2
	COLUMBUS	\$63,003	11	-0.62%	29	\$35,026	21	7.48%	18	79	9	55,506	25.0%	1	1	9	9	9	36	1
	CRAVEN	\$87,933	50	-0.21%	37	\$45,022	73	6.12%	43	203	51	103,766	16.6%	2	2	51	51	51	68	2
	CUMBERLAND	\$67,073	16	-0.36%	33	\$44,038	69	7.18%	25	143	27	329,403	17.0%	2	2	27	27	27	43	2
	CURRITUCK	\$237,442	98	4.47%	89	\$57,577	96	5.75%	59	342	94	25,072	9.8%	2	2	41	41	41	53	2
	DARE	\$380,121	100	3.43%	81	\$52,083	91	7.38%	22	294	82	35,415	8.8%	2	2	41	41	41	53	2
	DAVIDSON	\$77,493	41	0.45%	52	\$40,424	48	5.49%	72	213	60	164,081	16.3%	2	2	60	60	60	73	2
	DAVIE	\$99,450	56	0.22%	45	\$49,708	86	4.94%	91	278	77	41,476	13.4%	2	2	41	41	41	53	2
	DUPLIN	\$66,449	14	1.79%	68	\$38,106	38	5.70%	64	184	40	60,126	26.3%	2	2	40	40	40	51	2
	DURHAM	\$102,872	62	6.40%	97	\$52,331	92	4.88%	93	344	95	289,173	18.5%	3	3	95	95	95	95	3
	EDGECOMBE	\$55,512	4	-0.67%	28	\$33,080	9	9.61%	3	44	5	55,141	25.2%	1	1	5	5	5	34	1
	FORSYTH	\$88,786	51	2.90%	79	\$46,163	79	5.39%	77	286	80	364,005	18.6%	3	3	80	80	80	83	3
	FRANKLIN	\$69,211	20	2.76%	78	\$39,312	43	5.67%	66	207	54	62,753	16.1%	2	2	54	54	54	70	2
	GASTON	\$68,652	18	1.66%	65	\$42,461	61	5.80%	54	198	50	210,499	17.9%	2	2	50	50	50	67	2
	GATES	\$70,076	22	-2.15%	5	\$48,194	83	5.52%	71	181	37	11,912	19.6%	1	1	0	0	0	1	1
	GRAHAM	\$141,220	87	-1.04%	16	\$33,553	11	12.57%	1	115	17	8,829	21.1%	1	1	0	0	0	1	1
	GRANVILLE	\$70,486	26	0.37%	50	\$48,680	85	5.01%	89	250	70	55,224	15.4%	2	2	70	70	70	77	2
	GREENE	\$54,018	3	-2.00%	6	\$39,481	45	5.54%	70	124	21	19,115	23.3%	1	1	0	0	0	1	1
↑	GUILFORD	\$90,223	53	3.59%	83	\$46,093	78	5.76%	57	271	75	512,273	18.1%	3	2	75	75	75	81	3
	HALIFAX	\$70,616	27	-2.22%	4	\$32,597	6	8.82%	6	43	4	52,204	27.4%	1	1	4	4	4	33	1
	HARNETT	\$62,539	8	6.23%	96	\$45,257	75	6.70%	31	210	59	124,760	17.2%	2	2	59	59	59	72	2
↓	HAYWOOD	\$120,246	76	0.95%	59	\$39,320	44	5.07%	86	265	74	59,913	16.6%	2	3	74	74	74	80	2
	HENDERSON	\$111,005	68	2.64%	76	\$44,561	71	4.58%	96	311	88	110,897	14.1%	3	3	88	88	88	89	3
	HERTFORD	\$62,889	10	-0.03%	40	\$33,616	12	6.84%	29	91	12	23,143	26.0%	1	1	0	0	0	1	1
	HOKE	\$61,585	7	3.96%	86	\$43,987	68	7.73%	16	177	36	50,453	22.9%	1	2	36	36	36	49	2
	HYDE	\$203,577	94	-0.18%	38	\$36,681	31	8.71%	7	170	34	5,077	25.6%	1	1	0	0	0	1	1
	IREDELL	\$120,364	77	3.68%	84	\$49,983	87	5.37%	78	326	90	167,157	13.8%	3	3	90	90	90	91	3
	JACKSON	\$219,755	96	1.32%	63	\$40,511	50	5.89%	51	260	73	41,039	21.8%	1	1	0	0	0	1	1

NEW TIER	COUNTY	ECONOMIC INDICATORS										County Rank Sum (Lowest = most distressed)	ECONOMIC DISTRESS RANK (#1=most distressed)	TIER ADJUSTMENTS										Adjusted County Rank	FINAL 2016 TIERS
		Adjusted Property Tax Base Per Capita FY 2015-2016		Population Growth July 2012-July 2014		Median Household Income 2013		Unemployment 12 Mth Avg Oct 14- Sept 15		Population Less Prison July 2014	Poverty Rate 5-year 2009-2013			2014 Tier	2015 Tier	Pop <\$0,000 then top 30 pop <\$0,000 & poverty>15% then top 40	Pop <\$2,000 then top 40	Must be Tier One for two consec. years							
		Value	Rank	% Change	Rank	Income	Rank	Rate	Rank																
	JOHNSTON	\$76,462	39	4.48%	90	\$50,904	90	5.04%	88	307	87	179,692	17.2%	3	3	87	87	87	88	3					
	JONES	\$80,183	46	-0.89%	21	\$39,602	46	5.73%	61	174	35	10,468	16.7%	1	1	35	0	0	1	1					
	LEE	\$86,323	49	1.87%	70	\$48,061	82	7.56%	17	218	62	58,905	18.9%	2	2	62	62	62	74	2					
	LENOIR	\$66,824	15	-0.85%	24	\$34,127	15	6.46%	35	89	11	58,795	23.7%	1	1	11	11	11	37	1					
	LINCOLN	\$101,435	61	1.83%	69	\$50,537	89	5.29%	80	299	84	79,970	15.6%	3	3	84	84	84	85	3					
	MACON	\$223,653	97	0.65%	57	\$37,219	36	6.10%	44	234	66	34,428	21.3%	2	1	0	0	0	1	1					
	MADISON	\$101,015	58	2.07%	72	\$37,479	37	5.41%	76	243	69	21,584	17.3%	2	2	41	41	41	53	2					
	MARTIN	\$85,110	48	-1.80%	7	\$34,761	18	7.42%	21	94	13	23,714	23.2%	1	1	0	0	0	1	1					
↓	MCDOWELL	\$79,876	45	0.19%	43	\$36,840	32	5.57%	69	189	44	44,554	21.9%	2	2	0	0	0	1	1					
	MECKLENBURG	\$115,517	72	7.80%	100	\$54,657	93	5.31%	79	344	95	1,013,199	15.4%	3	3	95	95	95	95	3					
	MITCHELL	\$114,820	71	2.43%	74	\$38,303	39	6.77%	30	214	61	15,825	18.3%	1	2	41	41	41	53	2					
	MONTGOMERY	\$105,913	65	-0.58%	31	\$35,613	25	5.69%	65	186	42	27,179	25.6%	1	1	0	0	0	1	1					
	MOORE	\$128,111	81	4.19%	87	\$50,169	88	5.61%	67	323	89	93,078	15.6%	3	3	89	89	89	90	3					
	NASH	\$75,634	36	-0.95%	17	\$41,575	59	7.31%	23	135	24	93,876	17.0%	2	1	24	24	0	1	1					
	NEW HANOVER	\$136,098	85	5.18%	93	\$48,651	84	5.24%	83	345	97	216,564	16.9%	3	3	97	97	97	97	3					
	NORTHAMPTON	\$94,361	54	-2.94%	2	\$31,732	4	7.46%	19	79	9	20,764	26.3%	1	1	0	0	0	1	1					
	ONslow	\$70,200	23	3.52%	32	\$45,213	74	5.71%	63	242	68	193,204	15.2%	2	2	68	68	68	76	2					
	ORANGE	\$112,415	69	3.81%	85	\$59,472	97	4.41%	99	350	98	139,791	17.8%	3	3	98	98	98	98	3					
	PAMLICO	\$130,915	83	-1.31%	14	\$43,517	65	6.00%	46	208	57	12,573	13.8%	2	2	41	41	41	53	2					
	PASQUOTANK	\$79,575	44	-1.34%	13	\$40,094	47	7.44%	20	124	21	38,374	18.4%	1	1	21	21	21	40	1					
	PENDER	\$113,749	70	5.93%	95	\$44,949	72	5.98%	47	284	79	55,773	19.3%	3	3	79	79	79	82	3					
	PERQUIMANS	\$127,999	80	0.65%	58	\$42,504	62	7.13%	27	227	63	13,638	20.2%	1	1	0	0	0	1	1					
	PERSON	\$107,877	66	-0.84%	26	\$42,091	60	6.58%	32	184	40	39,265	18.0%	2	2	40	40	40	51	2					
	PITT	\$65,731	13	2.70%	77	\$40,940	55	5.97%	48	193	48	174,424	24.3%	2	2	48	48	48	66	2					
	POLK	\$134,710	84	0.98%	60	\$43,665	66	5.05%	87	297	83	20,740	16.7%	2	2	41	41	41	53	2					
	RANDOLPH	\$70,996	29	0.43%	51	\$40,896	54	5.48%	73	207	54	142,858	17.8%	2	2	54	54	54	70	2					
	RICHMOND	\$68,023	17	-1.79%	8	\$32,825	8	7.96%	13	46	6	44,880	25.9%	1	1	0	0	0	1	1					
	ROBESON	\$45,880	1	-0.30%	35	\$30,248	1	8.48%	10	47	7	132,783	31.7%	1	1	7	7	7	35	1					
↑	ROCKINGHAM	\$72,795	32	-0.90%	19	\$40,446	49	6.43%	36	136	25	92,543	17.9%	1	1	25	25	25	41	2					
	ROWAN	\$83,411	47	0.33%	49	\$41,475	57	5.86%	52	205	53	137,725	18.8%	2	2	53	53	53	69	2					
	RUTHERFORD	\$88,859	52	-0.92%	18	\$35,544	23	7.78%	15	108	15	67,378	21.5%	1	1	15	15	15	38	1					
	SAMPSON	\$63,362	12	1.18%	62	\$35,890	27	5.76%	58	159	31	63,941	22.8%	2	2	31	31	31	46	2					
	SCOTLAND	\$57,352	5	-1.40%	12	\$32,314	5	10.69%	2	24	1	34,373	32.3%	1	1	0	0	0	1	1					
	STANLY	\$72,964	33	0.48%	53	\$42,801	63	5.29%	81	230	64	60,205	16.1%	2	2	64	64	64	75	2					
	STOKES	\$77,830	42	-1.45%	10	\$44,552	70	5.27%	82	204	52	46,786	15.8%	2	2	41	41	41	53	2					
↑	SURRY	\$72,167	30	0.52%	54	\$36,221	30	5.46%	75	189	44	73,834	19.9%	1	1	44	44	44	65	2					
	SWAIN	\$105,701	64	4.32%	88	\$34,552	17	7.86%	14	183	38	14,831	27.2%	1	1	0	0	0	1	1					
	TRANSYLVANIA	\$179,275	92	0.55%	55	\$40,578	52	5.47%	74	273	76	33,428	14.3%	2	2	41	41	41	53	2					
	TYRRELL	\$126,130	79	-1.75%	9	\$32,642	7	8.86%	5	100	14	3,645	20.8%	1	1	0	0	0	1	1					
	UNION	\$96,687	55	5.17%	92	\$63,912	99	4.71%	95	341	93	215,933	9.4%	3	3	93	93	93	94	3					
	VANCE	\$51,735	2	-0.89%	20	\$35,565	24	8.68%	8	54	8	45,077	28.0%	1	1	0	0	0	1	1					
	WAKE	\$118,210	74	6.62%	98	\$65,433	100	4.53%	98	370	100	982,473	11.0%	3	3	100	100	100	100	3					
	WARREN	\$124,317	78	-1.26%	15	\$33,767	13	8.38%	11	117	18	19,743	26.2%	1	1	0	0	0	1	1					
	WASHINGTON	\$70,315	24	-2.72%	3	\$31,596	2	8.56%	9	38	3	12,679	23.7%	1	1	0	0	0	1	1					
	WATAUGA	\$166,787	91	1.59%	64	\$38,380	40	4.88%	92	287	81	52,923	31.3%	3	3	81	81	81	84	3					
	WAYNE	\$62,846	9	2.01%	71	\$41,526	58	6.02%	45	183	38	124,926	22.1%	2	2	38	38	38	50	2					
	WILKES	\$75,205	35	0.19%	44	\$35,895	28	5.73%	60	167	33	69,642	22.7%	2	2	33	33	33	48	2					
↑	WILSON	\$77,242	40	0.04%	41	\$40,772	53	9.03%	4	138	26	81,410	23.2%	1	1	26	26	26	42	2					
	YADKIN	\$72,184	31	-1.44%	11	\$40,998	56	4.85%	94	192	47	37,842	18.5%	2	2	41	41	41	53	2					
↓	YANCEY	\$141,101	86	-0.80%	27	\$35,866	26	5.90%	50	189	44	17,907	20.1%	2	2	0	0	0	1	1					

# 2015 COUNTY DEVELOPMENT TIER RANKINGS (§ 143B-437.08)

NEW TIER	COUNTY	ECONOMIC INDICATORS								TIER ADJUSTMENTS										Adjusted County Rank	FINAL 2015 TIER
		Adjusted Property Tax Base Per Capita FY 2014-2015		Population Growth July 2010-July 2013		Median Household Income 2012		Unemployment 12 Mth Avg Oct 13-Sept 14		County Rank Sum (Lowest = most distressed)	ECONOMIC DISTRESS RANK (#1 = most distressed)	Population Less Prison July 2013	Poverty Rate 5-year 2008-2012	2013 Tier	2014 Tier	Pop < \$0,000 then top 30 pop < \$0,000 & poverty > 15% then top 40	Pop < \$2,000 then top 40	Must be Tier One for two consec. Years			
		Value	Rank	% Change	Rank	Income	Rank	Rate	Rank												
↓	ALAMANCE	\$77,347	39	1.40%	60	\$41,394	58	6.53%	71	228	66	153,595	17.3%	2	2	66	66	66	76	2	
	ALEXANDER	\$73,159	33	0.17%	40	\$39,655	51	6.21%	79	203	50	36,331	18.3%	2	2	41	41	41	49	2	
	ALLEGHANY	\$160,277	90	-0.86%	19	\$34,046	18	7.51%	39	166	32	11,052	20.9%	1	1	0	0	0	1	1	
	ANSON	\$69,221	23	-1.58%	9	\$32,339	11	7.94%	24	67	10	24,298	22.2%	1	1	0	0	0	1	1	
	ASHE	\$149,224	88	0.65%	49	\$34,080	19	8.10%	21	177	38	27,434	19.3%	2	2	0	0	0	1	1	
↑	AVERY	\$279,492	98	0.84%	56	\$34,727	22	7.41%	41	217	59	16,128	17.8%	2	2	41	41	41	49	2	
	BEAUFORT	\$119,004	73	0.03%	34	\$38,256	44	8.03%	23	174	37	47,777	20.6%	2	1	0	0	0	1	1	
	BERTIE	\$63,566	12	-3.10%	2	\$30,414	2	9.37%	9	25	1	19,651	24.3%	1	1	0	0	0	1	1	
	BLADEN	\$77,970	42	0.16%	39	\$32,766	13	9.77%	5	99	14	35,074	24.4%	1	1	0	0	0	1	1	
	BRUNSWICK	\$210,131	95	7.08%	99	\$48,624	84	7.37%	43	321	88	115,716	15.2%	3	3	88	88	88	89	3	
↑	BUNCOMBE	\$123,617	78	4.19%	86	\$43,146	69	4.98%	97	330	90	248,058	16.8%	3	3	90	90	90	91	3	
	BURKE	\$72,269	29	-0.95%	16	\$38,581	47	7.21%	51	143	27	88,393	18.7%	1	1	27	27	27	43	2	
	CABARRUS	\$102,047	59	4.55%	89	\$55,531	98	6.02%	85	331	91	186,347	12.1%	3	3	91	91	91	92	3	
	CALDWELL	\$71,138	27	-0.56%	27	\$35,127	24	7.36%	45	123	22	82,251	19.0%	1	1	22	22	22	41	2	
	CAMDEN	\$104,749	63	1.91%	65	\$53,563	94	6.73%	68	290	81	10,174	7.4%	1	1	41	0	0	1	1	
↑	CARTERET	\$209,308	93	3.78%	83	\$48,930	86	6.21%	80	342	96	68,939	14.1%	3	3	96	96	96	97	3	
	CASWELL	\$66,848	19	0.80%	55	\$39,615	50	7.04%	55	179	39	22,744	20.7%	1	1	0	0	0	1	1	
	CATAWBA	\$100,835	58	0.73%	51	\$42,080	62	7.26%	50	221	61	155,174	15.1%	2	2	61	61	61	72	2	
	CHATHAM	\$130,081	81	6.08%	94	\$55,371	96	4.59%	100	371	100	67,597	11.1%	3	3	100	100	100	100	3	
	CHEROKEE	\$110,404	68	0.12%	37	\$31,370	7	8.78%	16	128	23	27,471	15.1%	1	2	23	23	23	42	2	
↑	CHOWAN	\$104,625	62	0.39%	44	\$37,458	41	8.19%	20	167	33	14,815	24.7%	1	1	0	0	0	1	1	
	CLAY	\$157,704	89	2.14%	68	\$36,871	36	6.52%	72	265	74	10,794	22.6%	1	1	0	0	0	1	1	
	CLEVELAND	\$75,231	36	-0.61%	25	\$38,265	45	7.17%	52	158	30	97,429	19.7%	2	2	30	30	30	45	2	
	COLUMBUS	\$59,320	6	-0.17%	32	\$33,765	17	8.87%	13	68	11	55,672	24.5%	1	1	11	11	11	35	1	
	CRAVEN	\$91,184	53	0.30%	42	\$47,087	82	7.72%	32	209	53	103,691	16.3%	2	2	53	53	53	68	2	
↓	CUMBERLAND	\$66,017	17	1.56%	62	\$45,110	79	7.82%	29	187	42	332,553	16.8%	2	2	42	42	42	63	2	
	CURRITUCK	\$293,712	99	3.63%	80	\$54,822	95	5.42%	94	368	99	24,506	9.9%	2	2	41	41	41	49	2	
	DARE	\$420,851	100	3.73%	81	\$51,900	92	7.81%	30	303	85	35,273	10.4%	2	2	41	41	41	49	2	
	DAVIDSON	\$77,946	41	0.55%	48	\$43,824	73	6.92%	60	222	62	163,400	15.2%	2	2	62	62	62	73	2	
	DAVIE	\$99,097	56	0.47%	45	\$49,984	89	6.05%	84	274	76	41,507	13.0%	2	2	41	41	41	49	2	
↑	DUPLIN	\$66,508	18	2.76%	73	\$36,075	31	7.35%	46	168	34	59,967	24.4%	2	2	34	34	34	47	2	
	DURHAM	\$104,194	61	5.60%	93	\$50,889	90	5.42%	93	337	94	283,210	18.0%	3	3	94	94	94	95	3	
	EDGECOMBE	\$56,273	4	-1.25%	14	\$32,002	10	11.51%	3	31	3	55,352	24.0%	1	1	3	3	3	32	1	
	FORSYTH	\$91,962	54	2.59%	72	\$43,049	68	6.36%	77	271	75	360,226	17.6%	3	3	75	75	75	81	3	
	FRANKLIN	\$67,373	20	3.12%	76	\$42,346	64	6.16%	82	242	69	62,222	15.4%	3	2	69	69	69	78	2	
↓	GASTON	\$68,350	21	1.66%	63	\$41,614	59	6.94%	59	202	47	209,335	17.0%	2	2	47	47	47	65	2	
	GATES	\$72,544	30	-2.37%	7	\$44,273	76	6.75%	67	180	40	11,880	18.2%	1	1	40	0	0	1	1	
	GRAHAM	\$141,385	86	-0.18%	31	\$32,883	14	11.97%	2	133	25	8,854	17.3%	1	1	25	0	0	1	1	
	GRANVILLE	\$72,744	31	1.15%	58	\$46,303	81	6.98%	57	227	65	54,973	14.3%	2	2	65	65	65	75	2	
	GREENE	\$55,373	3	-0.68%	22	\$35,050	23	7.04%	54	102	15	19,102	22.1%	2	1	0	0	0	1	1	
↑	GUILFORD	\$90,358	51	3.62%	79	\$43,299	70	7.05%	53	253	71	507,419	16.9%	2	3	71	71	71	80	2	
	HALIFAX	\$70,556	24	-1.52%	10	\$31,253	6	10.12%	4	44	5	52,727	25.3%	1	1	5	5	5	34	1	
	HARNETT	\$61,437	8	6.59%	98	\$44,998	78	7.65%	33	217	59	122,333	16.4%	2	2	59	59	59	71	2	
	HAYWOOD	\$121,541	75	1.41%	61	\$40,022	53	5.57%	90	279	80	59,674	14.2%	3	2	80	80	80	84	3	
	HENDERSON	\$114,724	71	2.18%	70	\$45,168	80	5.01%	96	317	87	109,287	13.5%	3	3	87	87	87	88	3	
↑	HERTFORD	\$61,565	9	-0.74%	20	\$31,861	9	7.91%	28	66	9	23,188	25.0%	1	1	0	0	0	1	1	
	HOKE	\$59,684	7	6.41%	97	\$44,717	77	7.28%	49	230	67	50,183	21.9%	1	1	67	67	67	77	2	
	HYDE	\$210,015	94	1.96%	66	\$35,301	27	7.93%	26	213	56	5,152	23.3%	1	1	0	0	0	1	1	
	IREDELL	\$122,933	77	3.26%	77	\$49,666	87	6.47%	73	314	86	164,974	13.5%	3	3	86	86	86	87	3	
	JACKSON	\$240,463	97	1.15%	57	\$37,049	38	5.88%	86	278	79	40,810	19.5%	1	1	0	0	0	1	1	

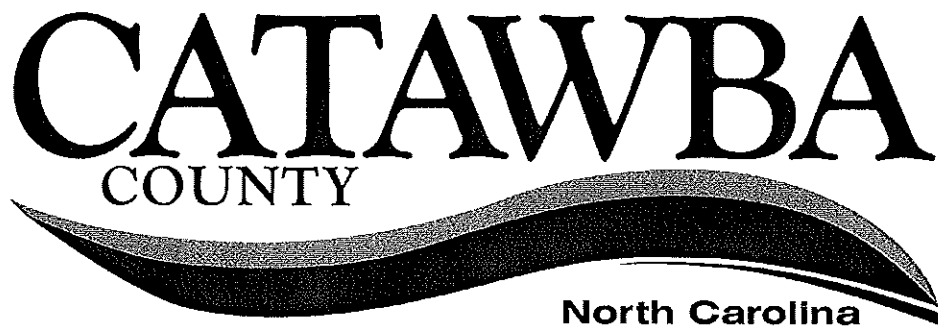


2015 COUNTY DEVELOPMENT TIER RANKINGS (\$ 143B-437.08) continued

NEW TIER	COUNTY	ECONOMIC INDICATORS										TIER ADJUSTMENTS										Adjusted County Rank	FINAL 2015 TIERS
		Adjusted Property Tax Base Per Capita FY 2014-2015		Population Growth July 2010-July 2013		Median Household Income 2012		Unemployment 12 Mo Avg Oct 13-Sept 14		County Rank Sum (Lowest = most distressed)	ECONOMIC DISTRESS RANK (#1 = most distressed)	Population Less Prison July 2013	Poverty Rate 5-year 2008-2012	2013 Tier	2014 Tier	Pop <50,000 then top 30: pop <50,000 & poverty >19% then top 40	Pop <22,000 then top 40	Must be Tier One for two consec. Years					
		Value	Rank	% Change	Rank	Income	Rank	Rate	Rank														
↓	JOHNSTON	\$74,563	34	4.54%	88	\$48,773	85	5.82%	88	295	82	176,675	16.1%	3	3	82	82	82	85	3			
	JONES	\$79,353	45	4.69%	91	\$35,159	25	7.54%	36	197	45	10,554	17.0%	1	1	41	0	0	1	1			
	LEE	\$83,668	48	2.54%	71	\$43,424	72	8.55%	18	209	53	59,048	17.4%	2	2	53	53	53	68	2			
	LENOIR	\$65,305	14	-0.60%	26	\$35,634	29	7.54%	37	106	16	58,981	24.9%	1	1	16	16	16	36	1			
	LINCOLN	\$102,837	60	1.67%	64	\$47,799	83	6.57%	70	277	78	79,519	14.9%	2	3	78	78	78	83	3			
	MACON	\$236,448	96	0.66%	50	\$36,438	34	7.02%	56	236	68	34,151	19.6%	2	2	0	0	0	1	1			
	MADISON	\$97,918	55	2.88%	74	\$37,644	43	5.46%	91	263	73	21,372	17.4%	2	2	41	41	41	49	2			
	MARTIN	\$79,323	44	-2.91%	4	\$33,159	16	7.77%	31	95	13	23,750	24.9%	1	1	0	0	0	1	1			
	MCDOWELL	\$79,077	43	0.38%	43	\$36,584	35	7.30%	48	169	35	44,457	19.0%	1	2	35	35	35	48	2			
	MECKLENBURG	\$117,848	72	7.44%	100	\$55,392	97	6.79%	62	331	91	991,867	14.5%	3	3	91	91	91	92	3			
↑	MITCHELL	\$121,681	76	-0.87%	18	\$36,210	32	8.07%	22	148	28	15,407	18.7%	1	1	28	28	28	44	2			
↓	MONTGOMERY	\$110,345	67	-0.26%	29	\$35,272	26	7.32%	47	169	35	27,138	26.3%	1	1	0	0	0	1	1			
	MOORE	\$132,239	82	3.87%	84	\$49,670	88	6.40%	75	329	89	91,937	14.5%	3	3	89	89	89	90	3			
	NASH	\$75,567	35	-0.89%	17	\$40,937	56	8.87%	14	122	21	94,094	17.6%	2	2	21	21	21	40	1			
	NEW HANOVER	\$139,384	84	5.18%	92	\$50,890	91	6.40%	74	341	95	213,417	16.0%	3	3	95	95	95	96	3			
	NORTHAMPTON	\$90,362	52	-2.99%	3	\$31,217	5	8.36%	19	79	12	20,904	26.5%	1	1	0	0	0	1	1			
	ONslow	\$68,802	22	3.78%	82	\$44,263	75	6.76%	66	245	70	193,925	13.9%	2	2	70	70	70	79	2			
	ORANGE	\$113,137	69	4.02%	85	\$53,026	93	4.66%	99	346	97	139,481	17.4%	3	3	97	97	97	98	3			
	PAMLICO	\$125,291	79	-0.14%	33	\$41,004	57	7.63%	35	204	51	12,515	13.8%	2	2	41	41	41	49	2			
	PASQUOTANK	\$85,144	50	-2.89%	5	\$43,935	74	9.09%	11	140	26	38,651	18.0%	2	1	26	26	0	1	1			
	PENDER	\$114,592	70	6.16%	95	\$43,318	71	7.50%	40	276	77	54,813	18.0%	3	3	77	77	77	82	3			
	PERQUIMANS	\$108,948	66	2.14%	69	\$42,494	65	7.93%	25	225	64	13,771	18.6%	2	1	41	41	0	1	1			
	PERSON	\$105,449	65	-0.63%	24	\$42,546	66	6.83%	61	216	58	39,192	16.4%	2	2	41	41	41	49	2			
	PITT	\$64,084	13	3.02%	75	\$39,343	49	6.76%	65	202	47	173,879	24.0%	2	2	47	47	47	65	2			
	POLK	\$141,120	85	0.79%	54	\$41,719	60	4.81%	98	297	83	20,603	15.7%	2	2	41	41	41	49	2			
	RANDOLPH	\$71,831	28	0.49%	47	\$41,815	61	6.30%	78	214	57	142,341	17.1%	2	2	57	57	57	70	2			
	RICHMOND	\$65,562	15	-1.06%	15	\$30,726	3	8.84%	15	48	6	45,436	24.8%	1	1	0	0	0	1	1			
	ROBESON	\$42,821	1	-0.25%	30	\$29,965	1	9.66%	6	38	4	133,020	31.9%	1	1	4	4	4	33	1			
	ROCKINGHAM	\$72,818	32	-1.43%	11	\$37,577	42	7.63%	34	119	19	92,254	17.2%	1	1	19	19	19	38	1			
	ROWAN	\$84,669	49	0.23%	41	\$40,400	54	6.79%	63	207	52	137,677	18.5%	2	2	52	52	52	67	2			
	RUTHERFORD	\$81,422	47	0.05%	35	\$34,193	20	8.99%	12	114	18	67,575	20.3%	1	1	18	18	18	37	1			
	SAMPSON	\$63,447	11	1.38%	59	\$37,420	39	6.39%	76	185	41	63,858	21.3%	2	2	41	41	41	49	2			
	SCOTLAND	\$56,442	5	-1.27%	13	\$31,704	8	12.58%	1	27	2	34,702	30.6%	1	1	0	0	0	1	1			
	STANLY	\$76,724	37	0.13%	38	\$42,816	67	6.19%	81	223	63	59,762	14.9%	2	2	63	63	63	74	2			
	STOKES	\$77,798	40	-1.31%	12	\$42,272	63	5.88%	87	202	47	46,731	17.4%	2	2	41	41	41	49	2			
	SURRY	\$70,897	25	-0.46%	28	\$36,934	37	6.96%	58	148	28	73,344	18.3%	2	1	28	28	0	1	1			
	SWAIN	\$105,213	64	4.24%	87	\$36,280	33	8.76%	17	201	46	14,590	22.5%	1	1	0	0	0	1	1			
	TRANSYLVANIA	\$181,567	92	0.48%	46	\$40,642	55	6.72%	69	262	72	33,220	14.2%	2	2	41	41	41	49	2			
	TYRRELL	\$133,089	83	-3.49%	1	\$30,728	4	7.36%	44	132	24	3,653	21.6%	1	1	0	0	0	1	1			
	UNION	\$99,361	57	4.64%	90	\$61,260	99	5.79%	89	335	93	211,539	9.7%	3	3	93	93	93	94	3			
	VANCE	\$53,926	2	-0.67%	23	\$34,371	21	9.47%	8	54	7	45,056	28.2%	1	1	0	0	0	1	1			
	WAKE	\$119,511	74	6.38%	96	\$64,107	100	5.20%	95	365	98	961,945	10.9%	3	3	98	98	98	99	3			
	WARREN	\$128,178	80	-1.68%	8	\$33,068	15	9.16%	10	113	17	19,676	24.4%	1	1	0	0	0	1	1			
	WASHINGTON	\$65,785	16	-2.63%	6	\$32,545	12	7.91%	27	61	8	12,826	26.5%	1	1	0	0	0	1	1			
	WATAUGA	\$170,911	91	3.28%	78	\$38,563	46	6.05%	83	238	84	52,682	28.3%	3	3	84	84	84	86	3			
	WAYNE	\$62,819	10	2.08%	67	\$38,776	48	6.78%	64	189	43	124,299	21.6%	2	2	43	43	43	64	2			
	WILKES	\$80,255	46	0.75%	53	\$35,362	28	7.51%	38	165	31	69,518	22.4%	1	2	31	31	31	46	2			
	WILSON	\$77,308	38	0.12%	36	\$37,440	40	9.54%	7	121	20	81,397	22.8%	1	1	20	20	20	39	1			
	YADKIN	\$71,021	26	-0.70%	21	\$40,012	52	5.45%	92	191	44	38,131	17.6%	2	2	41	41	41	49	2			
	YANCEY	\$148,388	87	0.75%	52	\$36,019	30	7.39%	42	211	55	17,921	18.9%	1	2	41	41	41	49	2			

**Attachment – 6**

**Question 10**



2015

# Technology Department Overview

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# Justice Center Expansion

The Justice Center expansion incorporates advanced technology components. As part of the construction project team, the Technology Department has assisted with planning, detail specifications, and scheduling. Moving forward, we will coordinate and manage the technology portions of the new facility, including:

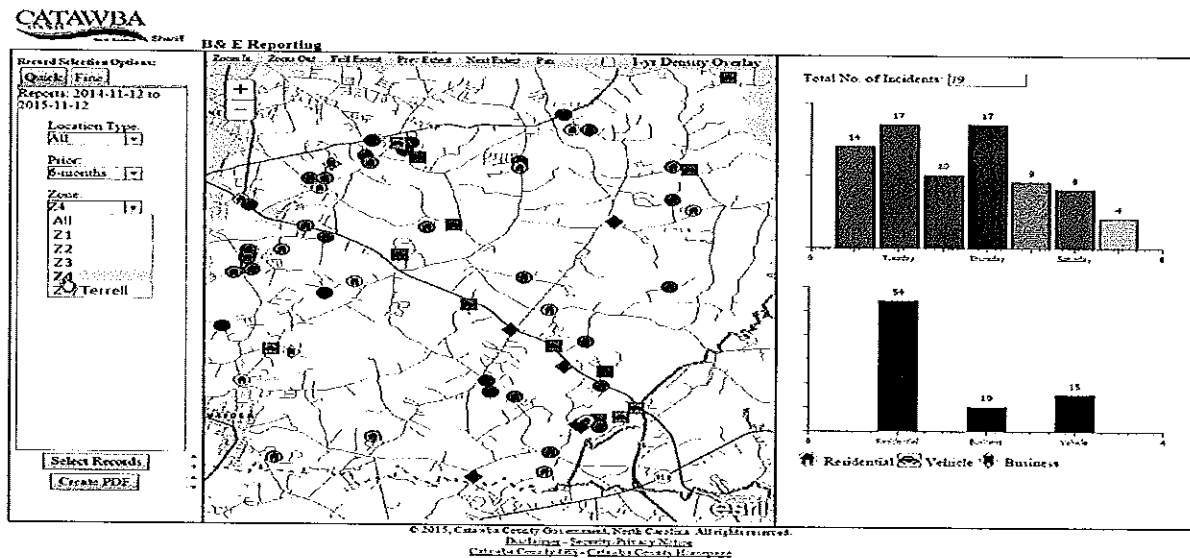
- State of the art e911 Communications Center
- State of the art e911 Data Center
  - Separate but redundant servers, databases, Storage Area Network (SAN), and heating and cooling
- Local and Wide Area Network Connectivity
- Wireless Network Coverage
- VoIP Phone Services
- Surveillance and safety Systems - cameras
- Digital Signage/projection systems
- Desktop and Peripheral Devices (PCs, Scanners, Printers, etc...)
- Mobile Devices - procure and support



# Public Safety

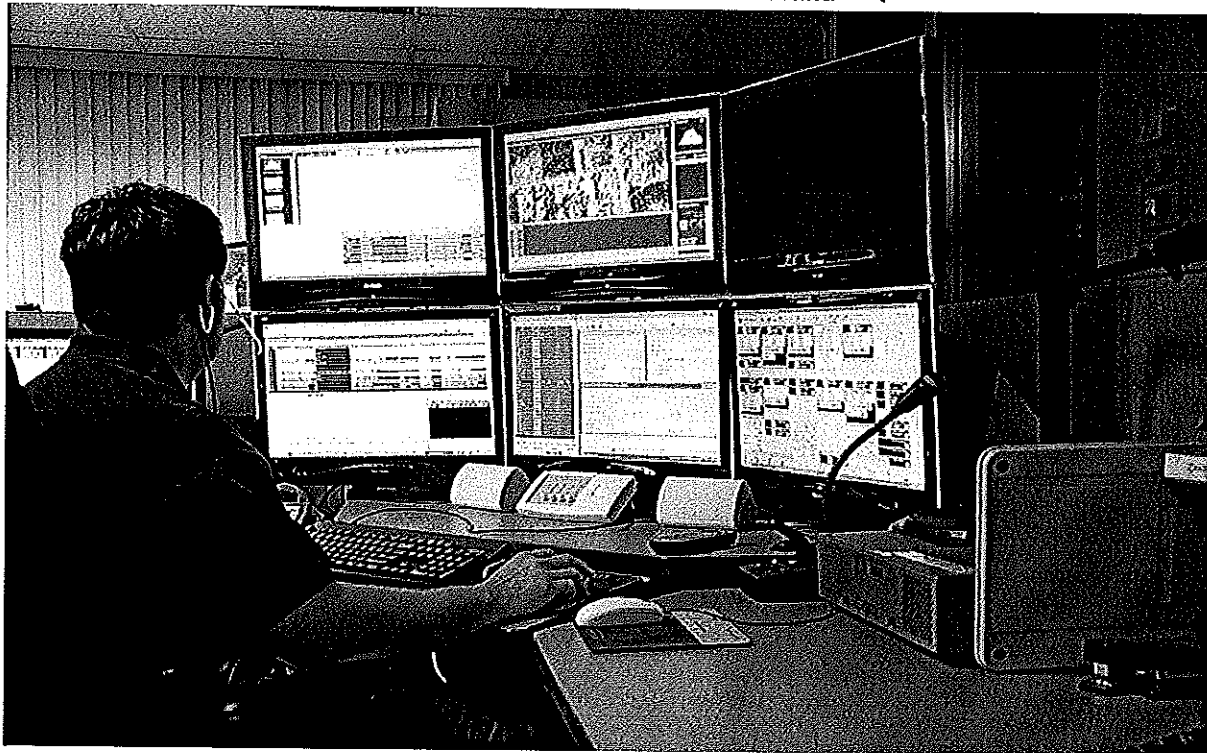
Provide 24x7 technical support to all Catawba County public safety agencies: Sheriff, Emergency Services, and Communications Center (e911).

- Online Incident Reports and Arrest Records - Provides self-service, 24x7 access to Incident Reports for individuals, media and insurance companies.
  - Reduce staff processing time
  - Reduce paper usage
  - Reduce travel for citizens/media requesting reports/records
- B&E inter-active web map provides officers the ability to search a specific timeframe in any, or all, of the Sheriff's Zones and display the B&E crimes for that timeframe, and area, on a map. The map can be viewed for a quick reference or it can be printed if necessary.
  - reduces staff time producing maps each week
  - reduces email storage, maps can be produced on the fly instead of producing and emailing pdf files as was the previous method



# 911 Infrastructure

Catawba County 911 is the primary emergency portal for the county. Information collected in our system supports the county as well as the larger municipalities by passing information to them electronically. To increase our municipal partnerships, as well as create greater efficiency throughout the system, the IT Infrastructure team is currently working on the following projects:



- Adding backup 911 site at Hickory Police Department and setting up two data connections for redundancy
- Extending full 911 connectivity to Newton Police Department
- Adding network connectivity to the Maiden Highway Patrol station to ensure a redundant link for the Viper radio system

**Attachment – 7**

**Question 23**



**North Carolina 911 Board**  
**PSAP Revenue-Expenditure Report**  
**For the period July 1, 2014 - June 30, 2015 (SFY15)**  
**Modified Accrual**

911 Approved Fund balance June 30, 2014 \$2,514,474.45

June 30, 2012 Ending Fund Balance-Approved by the North Carolina 911 Board for PSAP Revenue-Expenditure Report period July 1, 2014 - June 30, 2015 (FY2015)

03082016 Marsha Tapler -changed to reflect revenues actually sent to PSAP. Sent email to JJarrett to update records. No need to resign form.

Revenue \$436,843.00

911 revenue received from the North Carolina 911 Board representing 911 service fee collections made during the period July 1, 2014 - June 30, 2015 (FY2015) Modified Accrual

Interest \$18,792.02

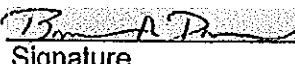
Interest earned on the Emergency Telephone System Fund (911) between July 1, 2014 - June 30, 2015 (FY2015)

Expenditures \$754,160.50

Total expenditures made in compliance with eligible 911 fund uses between July 1, 2014 - June 30, 2015 (FY2015) as listed on the detailed expenditure total page.

Emergency Telephone System Fund Balance June 30, 2015 \$2,215,948.97

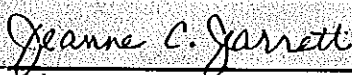
Grant Fund Revenue (only revenues sent for reimbursement should be listed)	\$0.00
Grant Fund Expenditures	\$0.00

PSAP Director <u>Brian A. Drum</u>	<u>100B Southwest Blvd</u>
Name	STREET address
<u></u>	<u>Newton NC</u>
Signature	City, State
<u>badrum@catawbacountync.gov</u>	<u>828-465-8330</u>
E-Mail	Phone

As Finance Officer for Catawba County, I Jeanne C. Jarrett

(Governing Unit) Name

certify that I have written or reviewed this Revenue/Expenditure Report and that all the information in the report is true and correct as of this date.

<u></u>	<u>2-17-2016</u>
Signature	Date
<u>jjarrett@catawbacountync.gov</u>	<u>828-465-8219</u>
E-Mail	Phone

## **Attachment – 8**

### **Budget and Budget Narrative Section**

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
202 631627 NC 911 Funds  For FY 2015/16, the monthly amount will be distributed to Catawba County for deposit into the Emergency Telephone System Fund (to be used in accordance with NC GS 62A-46C) is \$29,538.25/mo or \$354,459/yr.	436843	354459	354459	353078	per State funding reduction
202 631628 Secondary PSAP 911 - Hickory  Pass through funding from the 911 Board for authorized 911 expenditures for Secondary PSAP 911 Hickory = \$52,534	0	52534	52534	52451	per State funding reduction
202 631629 Secondary PSAP 911 - Newton  Pass through funding from the 911 Board for authorized 911 expenditures for Secondary PSAP 911 Newton = \$10,570.	0	10570	10570	10544	per State funding reduction
202 680300 Interest On Investments	0	0	0	0	
202 690100 Fund Balance Appropriated  Fund Balance applied for current year's projects.	119626	142654	2095016	2096397	to balance fund
202 695110 From Gen. Fund	0	0	0	0	

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
<p>202 841010 Travel Transportation</p> <p>Telecommunicator Certification Class (5 people) - meals @ \$600; mileage @ \$900 = \$1500</p> <p>EMD-Q Certification Class (2 people) - lodging @ \$500; meals @ \$400; mileage @ \$600 = \$1500</p> <p>NC 911 Board approved training classes (5 people) - lodging @ \$500; meals @ \$320; mileage @ \$1500 = \$2320.</p>	3820	5320	5320	5320	

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
<p>202 841020 Training And Education</p> <p>Registration - Initial EMD Certification Classes for (5) Telecommunicators @ \$395/ea = \$1975</p> <p>Registration - Initial EMD-Q Certification Classes for (2) Telecommunicators @ \$595 ea/ \$1190</p> <p>Fee for 20 EMD recertifications @ \$50 ea = \$1000</p> <p>Fee for 20 CPR cards for certifications @ \$6 ea = \$120</p> <p>Registration - Catawba County Supervisory Training Class @ \$260/ea.</p> <p>Fee for (5) Telecommunications Training Manuals required for Certification @ \$40 ea = \$200</p> <p>Registration -Telecommunicators attending various NC 911 Board approved training classes @ \$1000.</p>	3975	5745	5745	5745	
<p>202 841505 Telephone Service</p> <p>Intrado – Managed IP Network, A9-1-1 Routing and ALI Management (first 92,000 TNs) @ \$13,500/mo = \$162,000/yr</p> <p>AT &amp; T Catco 911 telephone lines @ \$3000/mo = \$36,000/yr</p> <p>Fluent/Language Line Bilingual services @ \$200/mo = \$2400/yr</p>	250000	200400	200400	200400	

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
<p>202 842520 Rep &amp; Maint-Office Equipment</p> <p>Priority Dispatch – Maintenance Agreement for Annual ProQA ESP EMD (for 7 positions) and Annual AQUA ESP software @ \$4000/yr</p> <p>Priority Dispatch - Maintenance Agreement for Annual Cardset ESP (6 cardsets) @ \$250/yr</p> <p>Stancil Solutions – Audio Recording System maintenance agreement @ \$7200/yr</p> <p>Priority Dispatch - ProQA Software Upgrade - Medical Paramount @ \$3200</p> <p>Priority Dispatch - AQUA Version Upgrade @ \$400</p>	16500	15050	15050	15050	

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
<p>202 842530 Rep &amp; Maint-Other Equipment</p> <p>Tri-Tech - CAD 24x7 software support on 7 positions (Cad Server, workstations, paging link, CAD monitor, GeoRelay) @ \$28,600/yr.</p> <p>Tri-Tech - GeoComm Geolynx 911 Software support (7 positions) @ \$6100/yr.</p> <p>Tri-Tech - GeoComm GeoLynx Sync Client software support @ \$275/yr.</p> <p>Tri-Tech - GeoComm GeoLynx Sync Server software support @ \$600/yr</p> <p>Tri-Tech - Remote Support Connectivity @ \$400/yr</p> <p>Tri-Tech - VisionCAD Geofile Update Utility Support - VisionCAD GeoFile Update Utility (prelive) @ \$0/yr.</p> <p>Tri-Tech - VisionCAD 15 &lt;300K Pop Annual Support - VisionGIS (prelive) @ \$0/yr</p> <p>Tri-Tech - GeoCom GeoLynx DMS GIS Manager Support per Editing Workstation - GeoComm GeoLynx DMS Manager SW, DMS, GIS Mtc 8x5 (prelive) @ \$0/yr.</p> <p>Jantech Services for UPS full maintenance @ \$3400/yr</p> <p>Wireless Communications - Maintenance on Vesta Sentinel 911 Geo-Ready Telephone System, Vesta 911 Workstations, EIM Interface, Spectracom Netclock, Patriot Software – 24/7 Remote Monitoring Service @ \$41,100/yr</p>	125000	104575	104575	104575	

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
<p>Motorola - Service Agreement on Central Electronics Bank and (7) Gold Series Elite radio console positions @ \$17,900/yr.</p> <p>E911 Center generator maintenance and unexpected repairs to other equipment @ \$4000/yr.</p> <p>Console Cleaning Specialists - Cleaning agreement includes an annual intensive cleaning of 9-1-1 dispatch console furniture @ \$2000; Maintenance &amp; repair of dispatch console furniture @ \$200 = \$2200</p>					
<p>202 861010 Secondary PSAP 911 Hickory</p> <p>Pass through funding from the 911 Board for authorized 911 expenditures for Secondary PSAP 911 Hickory - \$52,534</p>	0	52534	52534	52451	per State funding reduction
<p>202 861100 Secondary PSAP 911 Newton</p> <p>Pass through funding from the 911 Board for authorized 911 expenditures for Secondary PSAP 911 Newton - \$10,570</p>	0	10570	10570	10544	per State funding reduction
<p>202 870100 Small Tools &amp; Minor Equipment</p> <p>Replacement of broken and worn headsets (wireless and hard-wired), power cords, cables, and various console equipment @ \$7000</p> <p>(7) Chairs for Telecommunicators/Staff @ \$1000 ea = \$7000</p>	14000	14000	14000	14000	
<p>202 870150 Minor IT Equipment</p> <p>(20) Dispatch console monitor replacements @ \$500/ea = \$10,000.</p> <p>Hardware and software implementation fees and upgrades to computers @ \$2500</p>	7500	12500	12500	12500	



# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure			Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
202	982000	D P Equip -	0	0	0	0	
202	985000	Other Equip-	0	0	1950000	1950000	911 fundable for Justice Center Project
202	994000	Contingency	30000	30000	30000	30000	
Contingency funds for unexpected expenditures.							

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
<b>110 831005 Office Supplies</b>  Pens, file folders, spiral notebooks, binders, labels, tabs, CDs, DVDs, note pads, tape, clips, screen cleaners, envelopes, batteries, or any office related supplies for the Communications Center = \$635	635	635	635	635	
<b>110 831090 Other Misc Operating Supplies</b>  Replacement of floor mats - 5 @ \$48/ea = \$240  Upholstery cleaning for 911 chairs @ \$100  Hosting agency - miscellaneous food @ \$650	1125	990	990	990	
<b>110 841010 Travel Transportation</b>  NENA Conference (4 people) - lodging @ \$1400, meals @ \$400, gasoline @ \$150 = \$1950  Administrator to attend NENA Regional bi-monthly meetings and NC 911 Board monthly meetings - lodging @ \$850, meals @ \$300, gasoline @ \$750 = \$1900  Various Training/Workshops/Seminars for staff = \$1500  (Conference/meeting travel is estimated on using a County vehicle and the cost of gasoline only and not mileage reimbursement, which would be higher)	4860	5350	5350	5350	
<b>110 841020 Training And Education</b>  Registration for NENA Conference (4 people) \$180 each - \$720  Registration for various classes or training sessions for staff @ \$1600	1285	2320	2320	2320	

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
<p>110 841025 Dues Subscriptions</p> <p>NENA membership dues for (4) supervisors @ \$140 ea - \$560</p> <p>Firehouse Newsletter Subscription = \$30/yr</p>	580	590	590	590	
<p>110 841030 Printing Binding</p> <p>(5) Cases of Office Depot Envirocopy 30% recycled paper @ \$225</p> <p>(2) HP-C4127X Black Toner Cartridges for two printers @ \$350</p> <p>(1) HP-12A Black Toner @ \$70 each</p> <p>Panasonic UG5500 fax machine cartridges for 2 machines @ \$220</p> <p>Toner Cartridges for LaserJet 4000 M475dn - HP 305A Yellow Toner Cartridge (CE412A) @ \$110; HP 305A Magenta Toner Cartridge (CE413A) @ \$110; HP 305A Cyan Toner Cartridge (CE411A) @ \$110 and (2) HP305A Black Toner Cartridge (CE410A) @ \$160 = \$490</p> <p>One copier drum kit @ \$160</p> <p>Printing services for training manuals = \$100</p>	1465	1615	1615	1615	
<p>110 841500 Air Card Service</p> <p>(2) Verizon Mobile Air Cards @ \$80/mo = \$960/yr</p>	960	960	960	960	

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
<p>110 841505 Telephone Service</p> <p>12 Administrative lines @ \$300/mo = \$3600</p> <p>AT&amp;T Local and long distance charges = \$5520/yr</p> <p>AT&amp;T Elevator 1 &amp; 2 phone charges @ \$855/yr</p> <p>Verizon Cellular Service for Administrator @ \$840/yr</p> <p>T1 Line monthly charges by location as follows:</p> <p>Bandys Water Tower: AT&amp;T (\$200/mo) and Century Link Charges (\$655/mo) = \$10,260/yr</p> <p>Banoak Water Tower: AT&amp;T (\$865/mo) = \$10,380/yr</p> <p>Catawba Rescue: AT&amp;T (\$200/mo) and Century Link (\$345/mo) = \$6540/yr</p> <p>East Maiden Water Tower: AT&amp;T (\$630/mo) = \$7560/yr</p> <p>Hickory Fire Station 2: AT&amp;T (\$245/mo) and Century Link (\$390/mo) = \$7620/yr</p> <p>Longview Public Safety Building: AT&amp;T (\$60/mo) and Century Link (\$90/mo) =</p>	54000	55695	55695	55695	

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
\$1800/yr					
Charter Business - Cable for 911 Comm Center (\$60/mo) = \$720/yr					
110 841510 Postage	150	150	150	150	
Postal charges, stamps and UPS shipments = \$150					
110 841590 Other Communication	1500	750	750	750	
(15) FCC Licenses for Catawba County @ \$50/ea = \$750					

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
<p>110 842010 Electricity</p> <p>Duke Energy charges for the following tower sites (each location has 5 pieces of equipment):</p> <p>Bandys Water Tower @ \$670/yr</p> <p>Banoak Water Tower @ \$610/yr</p> <p>East Maiden Water Tower @ \$550/yr</p> <p>Hickory Fire Station 2 @ \$610/yr</p> <p>Energy United - Electricity at Anderson Mountain Tower site - \$1750/yr.</p> <p>16 North Tower site electricity paid to Oxford Fire Protection Association @ \$500/yr.</p> <p>James Oxygen - Anderson Mountain Tower site propane tank lease @ \$150/yr.</p> <p>James Oxygen - Propane at Anderson Mountain Tower site @ \$1000/yr.</p> <p>(NOTE: The power for the Justice Center Tower is included in the Justice Center utility bills</p>	6270	5840	5840	5840	

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
<p>110 842530 Rep &amp; Maint-Other Equipment</p> <p>Wireless Communications – 24/7 Service Agreement on (10) Quantar Base Station Equipment (1) Quantar Spare and (9) Quantar Repeaters, (32) Astrotac receivers, 5 Comparitors; Maintenance on the Microwave Hop at Bakers Mtn and Anderson Mtn; Maintenance on the 16 North Microwave Hop, ACU and XLT 1500 Mobiles @ \$59,000/yr.</p> <p>Wireless Communications - 24x7 (4-hr response or less) Service Agreement for (13) Adtran Channel Banks connectivity @ \$18,000/yr.</p> <p>Wireless Communications - Maintenance on VoIP Command Post portable answering positions, Command Post Software support @ \$11,500/yr</p> <p>Motorola - Service Agreement for (16) XTL5000 Consolettes, RF Modem, Elite Server, Genesis Server, and Network Switch @ \$14,500/yr.</p> <p>Tower Guys - providing Justice Center tower lights repair and maintenance @ \$1000</p> <p>Maintenance and repairs for towers throughout County (AC Unites, etc) @ \$6000</p> <p>Unexpected repairs to consoles and console filters @ \$500</p>	111500	110500	110500	110500	
<p>110 843570 Rent Of Data Processing Equipm</p> <p>State of NC - DCI interface charge and DCI connection fee for (9) terminals in the Communication Center @ \$2700/yr.</p>	2700	2700	2700	2700	

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
110 849090 Miscellaneous  Antibacterial and cleaning supplies for workstations, keyboards, phone equipment and consoles and miscellaneous kitchen supplies = \$400	750	400	400	400	
110 849160 Personnel Indirect Costs  Indirect Costs for positions - 10 positions added since 1995 @ \$30,000/yr. Requested two positions in FY 09/10 @ \$9000/ yr. Requested two positions in FY 13/14 @ \$6000/yr. (Total = \$45,000)	45000	45000	45000	45000	
110 870100 Small Tools & Minor Equipment  Repair and replacement of existing tower equipment and departmental tools/equipment @ \$2000  Replacement bulbs at consoles @ \$100	2100	2100	2100	2100	
110 870150 Minor IT Equipment  Various cables, switches, batteries and replacement parts for computer and/or radio equipment. UPS battery replacements at tower sites. Miscellaneous replacement of tower site equipment (monitors, keyboards, mice) and/or Communications Center Console Equipment @ \$3000	3000	3000	3000	3000	
110 985000 Other Equip-  We currently have 16 Consolettes, model # XTL5000, which were installed during FY 05/06. We have been informed by our maintenance provider that this equipment is at its end of life and the support for this equipment will end in 2018. As these Consolettes provide us with our primary contact with the local law enforcement and EMS, we believe that it's necessary to begin replacing them at an 8 per year interval. The next generation of Consolettes is the APX7500 which will provide us with the most updated version of this equipment (\$6257.25 ea)	0	0	0	0	eliminated request, funded as part of the Justice Public Safety Center project



**Attachment – 9**

**Question 26**

# Quotation

Quote Number:	1
Consultant:	Randy Heaton
Date of Quote:	Jan 12, 2016

<b>Customer:</b> Catawba County Communications Justice Center Newton, North Carolina 28658 Attn. Brian Drum		<b>Ship To:</b> SAME
<b>Tax Exempt Number:</b>		<b>ph:</b> 828-455-2904 <b>e-mail:</b> rheaton@wirelessnc.com
<b>TERMS:</b> Net 30 <b>SHIP:</b> best way		
<b>ph:</b> <b>e-mail:</b>		

Line	Qty	Model Number	Description	unit price	extended
1	1	GTR8000 Plus	Motorola VHF simulcast four site, three ch. system design	\$478,255.00	\$478,255.00

There may be some FCC license modifications involved in this system implementation. However this design incorporates your existing VHF frequencies for simulcasting. The modifications are normally not something that requires applications for new freqs.

**FCC/LIC REQ.**  
**Deliver:**  
**Ship:**  
**Install:**  
**Prog on File**  
**SVC Vislt Req**  
**CWO/COD**

X
X
X
X
X
X

Sub-Total:	\$478,255.00
Programming	\$4,000.00
shipping	\$9,365.00
Install. & Optimization	\$60,000.00
Engineering	\$34,000.00
Tower crew	\$48,000.00
Subtotal	<b>\$633,620.00</b>
5 years of Maint.	\$135,600.00
TOTAL	<b>\$769,220.00</b>

**Client Approval:** ☒ X

Date:

**Consultant:** Randy Heaton

e-mail: [rheaton@wirelessnc.com](mailto:rheaton@wirelessnc.com)

Date: \_\_\_\_\_

**Attachment – 10**

**Question 28**

ORDINANCE 2015-04

**BE IT ORDAINED** that the Catawba County Code of Ordinances, Chapter 30, Purchasing, is hereby amended in its entirety to read as follows:

Chapter 30 - PURCHASING

FOOTNOTE(S):

--- (1) ---

**Editor's note**—Ord. No. 2011-07, adopted June 20, 2011, amended ch. 30 in its entirety and enacted similar provisions as set out herein. The former ch. 30 derived from Ord. No. 2005-10, adopted Sept. 6, 2005.

**Cross reference**— Administration, ch. 2. [\(Back\)](#)

**State Law reference**— Authority of county to enter into multiyear contracts, G.S. 153A-13. [\(Back\)](#)

Sec. 30-1. - Definitions.

The following words, terms and phrases, when used in this chapter, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

*Alternative contracting method* means local governments can seek authority to modify bidding requirements for particular projects, specifically design-build projects for building construction.

*Appropriation* means an authorization granted by the board of commissioners to make expenditures and to incur obligations for specific purposes.

*Appropriation account* means a budgetary account set up to record specific authorizations to spend. The account is credited with original and any supplemental appropriations and is charged with expenditures and encumbrances.

*Bid* means a quotation specifically given a prospective purchaser upon request, usually in competition with other vendors.

*Budget document* means the instrument used by the budget-making authority to present a comprehensive financial program to the appropriating body.

*Construction management-at-risk* means services are provided by a construction manager, which may include preparation and coordination of bid packages, scheduling, cost control, value engineering, evaluation, preconstruction services and construction administration.

*Contract* means a legal agreement between the county and another governmental agency, company, corporation, individual or group of individuals obligating the county to pay money for services rendered or products.

*Department/agency head* means the highest level of supervision and coordination within a program area.

*Design-Build* means the design-builder contracts to provide both design services (architectural and engineering) and construction services under one contract.

*Design-Build Bridging* means the local government contracts separately with a project designer to design 35% of the project and contracts with a design-builder to complete the project design and perform construction services.

*Dual bidding* means bids may be received to erect, construct, alter or repair a building under both the single-prime and separate-prime contracting systems, and the contract shall be awarded to the lowest responsible bidder under the single-prime or the lowest responsible bidder under the separate-prime system.

*Electronic auction* means an auction of surplus property conducted on an internet site.

*Design Builder* means an appropriately licensed person, corporation, or entity that, under a single contract offers to provide design services and general contracting services.

*E-Verify* Local Government are prohibited from contracting for formal purchases and construction projects with a contractor that has not submitted documentation he/she has used the E-Verify program to insure their employees and sub-contractor's employees are not illegal immigrants and are legally employed.

*Fiscal year* means a 12-month period of time to which the annual budget applies and at the end of which a governmental unit determines its financial position and the results of its operations.

*Force account* means work performed by county employees that would ordinarily be performed by outside contractors.

*Information technology* means electronic data-processing goods and services and telecommunications goods and services, microprocessors, software, information processing, office systems, and related services and consulting or other services for design or redesign of information technology supporting business processes.

*Minority business* means a business of which at least 51 percent is owned by one or more minority persons or socially and economically disadvantaged individuals or, for a corporation, in which at least 51 percent of the stock is owned by one or more minority persons or socially and economically disadvantaged individuals, and of which the management and daily business operations are controlled by one or more of the minority persons or socially and economically disadvantaged individuals who own it.

*Petty cash* means a sum of money set aside for the purpose of making change or paying small obligations for which the issuance of a formal voucher and check would be too expensive and time-consuming or where the use of a procurement card is not feasible.

*Preaudit* means an examination for the purpose of determining the propriety of proposed financial transactions and financial transactions which have already taken place but which have not yet been recorded or, if such approval is required, before the approval of the financial transactions by designated officials for recording.

*Purchase order* means a legal document binding a vendor to provide a service or product and the county to pay a specified price.

*Purchasing manager* means one who purchases for another; one who is authorized by a county to negotiate contracts with vendors.

*Quote* means to state a price for goods or services.

*Separate-prime* means bids for building projects are received for each subdivision of work:

- (1) Heating, ventilating and air conditioning;
- (2) Plumbing;
- (3) Electrical; and
- (4) General.

*Request for Qualifications* means a process of evaluating and determining whether potential bidders have the skill, judgment, integrity, sufficient financial resources and ability necessary for faithfully performance of a contract for construction or repair work

*Single-prime* means bids for building projects are received from one contractor. The single-prime contractor performs all work or contracts with subcontractors for heating, ventilating and air conditioning; plumbing; and electrical.

*Sole-source item* means when an item is of such a special nature that it is only manufactured by one company.

*Surplus property* means items which are obsolete or are no longer of any value to the county.

*Unencumbered balance* means that portion of an appropriation which has not been expended or obligated through issuance of a purchase order.

*Vendor* means one who sells a commodity or a service.

*Voucher* means a document which evidences the propriety of transactions and indicates the accounts against which they are to be recorded.

(Ord. No. 2011-07, 6-20-2011)

**Cross reference—** Definitions generally, § 1-2.

**Sec. 30-2. - Jurisdiction; authority.**

- (a) The securing of goods and services necessary to the operation of county government is a major administrative responsibility. Under the supervision of the finance director, this function of county government is the primary responsibility of the purchasing office.
- (b) Statutory provisions regulating purchasing by local governments are contained primarily in G.S. 143-129—143-135. Other specific duties, responsibilities and authorities are contained in G.S. chs. 14, 44, 66, 75, 87, 105, 153, 160A, and 159, the Local Government Budget and Fiscal Control Act. By virtue of these statutes, the county is empowered to enter into contracts for the procurement of materials and services. The board of commissioners has full budget authority to sign such contracts. Authority to sign contracts for procurement of supplies and services has been delegated to the county manager.
- (c) Prior to (i) entering into any agreement, (ii) making any purchase, the county must first have funds appropriated to meet financial obligations. Contracts or purchase orders requiring the payment of funds, for supplies or materials, may not be made unless a proper appropriation appears in the budget and a sufficient unencumbered balance remains in the appropriation.

(Ord. No. 2011-07, 6-20-2011)

**State law reference—** Budgetary accounting for appropriations, G.S. 159-28.

**Sec. 30-3. - Purpose.**

- (a) The purchasing function is a service-oriented activity. As such, it exists to serve the needs of operating departments/agencies in county government.
- (b) This chapter makes reference to statutory provisions of state law. The provisions contained in this chapter reflect the current laws. It is intended that these provisions will always duplicate whatever changes occur in state law, and such provisions will be administratively updated at that time.

(Ord. No. 2011-07, 6-20-2011)

**Sec. 30-4. - Responsibility of purchasing manager.**

- (a) The basic responsibilities of the purchasing manager are to:
  - (1) Purchase goods and materials in accordance with established law and local policy; and
  - (2) Operate a consolidated purchase function for the county.
- (b) The purchasing manager has the responsibility to advise of the suitability, quality or quantity of equipment, material or supplies requested and can refer such requests to the finance director and county manager for approval. The purchasing office is charged with obtaining vendor quotations, terms, delivery codes, initiating contracts, initiating and completing all formal and informal bid proceedings, maintaining an accurate inventory of central supply, disposing of surplus property in accordance with resolutions of the board of commissioners and issuing purchase orders.
- (c) Any participation in the purchasing process by departments must be with the full knowledge and agreement of the purchasing manager.
- (d) All state and local governmental officers and employees are prohibited from entering into any contracts involving the units they serve when any such officer or employee or a firm in which he has a financial interest has a private interest in the contract, except when that private interest:
  - (1) Involves a bank or banking institution, a savings and loan association, or a regulated utility; or
  - (2) Provides supplies, services, or facilities to needy persons under state and federal aid programs.
 (Ord. No. 2011-07, 6-20-2011)

**State law reference**— Participation of a public officer in business transactions involving public funds, G.S. 14-234.

**Sec. 30-5. - Departmental working relationship.**

- (a) As a service agency for the county, it is the desire of the purchasing office to establish and maintain at all times a close working relationship with each department. It is essential that an attitude of mutual cooperation and understanding exist between the user department and the purchasing office. The following guidelines will promote mutual assistance:
  - (1) The user departments should:
    - a. Maintain a close check on supplies and stock.
    - b. Forecast any future purchasing requirements.
    - c. Request well in advance of needs whenever possible.
    - d. Eliminate all unnecessary emergency or rush purchasing.
    - e. Alert purchasing regarding late deliveries.
    - f. Examine items received for quality, quantity, and the like.
    - g. Report promptly to the purchasing office any deviations in orders received.
    - h. Submit by written memorandum complaints against vendors.
    - i. Indicate to purchasing the exact needs of the user department when equipment or special orders requiring written specifications are involved.
    - j. Forward a copy of quotes obtained to the purchasing office for the purpose of maintaining a record.
  - (2) The purchasing office should:
    - a. Check with user departments on needs when placing consolidated orders.
    - b. Inform departments of contracts that might be utilized.

- c. Advise departments of predicted shortages, price changes or other pertinent market or vendor data.
  - d. Expedite emergency purchases as rapidly as possible in order that normal operations of a department not be disrupted.
  - e. Contact vendors on late deliveries and report findings to ordering departments.
  - f. Mediate between the user department and the supplier on partial deliveries, cancellation, return of merchandise, and complaints.
  - g. Consult with the originating department when technical equipment, special order specifications, plans or designs are involved.
  - h. Inform the ordering department head and/or his delegate of formal or informal prebid conferences and bid openings.
  - i. Review with department head the bids and prices received; consider their preference before making recommendations for award or purchase.
- (b) From the initial request to delivery of the order, the purchasing office should coordinate all action toward accomplishing the desired goal for efficient procurement of items/services requested by county departments. Only through a harmonious working association can the purchasing office effectively function as a support service for the departments.

(Ord. No. 2011-07, 6-20-2011)

#### Sec. 30-6. - Local buying.

According to G.S. 143-129(b) the county has no authority to establish preferences of any kind and is bound by law to award to the "lowest responsible bidder, taking into consideration quality, performance and time specified in the proposals for the performance of the contract."

However, it is the desire of the county to contract with vendors and contractors located within Catawba County whenever possible. The purchasing division shall update departments of new local vendors and contractors and encourage departments to obtain quotes from local vendors when appropriate.

(Ord. No. 2011-07, 6-20-2011)

#### Sec. 30-7. - Formal bids.

All formal bids will be sent out by the purchasing manager as the authorized representative of the county. Bids will be opened and tabulated by the purchasing manager. When architects or engineers are employed to perform this service on construction bids, the purchasing manager should be present at openings when possible, receive copies of the public notice and bids and prepare a recommendation for the award of a bid. Certain requirements must be followed in the formal bid process:

- (1) Written specifications must be prepared. Efficient purchasing practices require buying in accordance with carefully developed specifications. For purchases of fairly standard items, development of elaborate specifications is not necessary, but simple, standard specifications are in order. Good, clear specifications are an essential aspect of competitive bidding. Quality and service are as important as price; therefore, specifications are needed that will fulfill but not exceed the requirements for which the items and/or services are intended. A general policy should be followed which would encourage the purchasing of a good, standard product which represents the best relationship between quality and price while providing a satisfactory level of service. Specifications are prepared by the purchasing office with input from the ordering department to ensure that the products purchased fill the need. A lengthy specification designed solely for the purpose of eliminating competition, other than those able to supply a particular brand name, will not be permitted. Brand names should be used only when no other product would be satisfactory.



- (2) Bids must be advertised for prospective bidders. Advertisements must be published on the county's web site so there are seven full days between the date of the publication and the date of the opening of the bids. It will be purchasing's responsibility to maintain a vendor list and notify all parties on the vendor list for applicable projects. The advertisement must contain the time and place where plans and specifications may be obtained and the time and place for opening of the proposals. On all construction contracts, the advertisement must also contain a notice that bidders must be properly licensed under G.S. ch. 87.
- (3) Prospective bidders must submit sealed bids. Unless the invitation to bid states differently, bids must be sealed and the contents must not be disclosed or exhibited prior to the time set for the bid opening.
- (4) Except under the conditions in subsections (4)a. and b., the board of commissioners must accept bids and award contracts. Bid results must be presented to the board of commissioners for acceptance and award. The board of commissioners reserves the right to reject any or all proposals.
  - a. The county manager is authorized to award formal bids for purchase contracts in amounts less than \$250,000.00 within the following guidelines:
    1. The bid is awarded to the lowest responsible bidder.
    2. Sufficient funding is available within the department.
    3. The purchase is consistent with the goals and/or outcomes of the department.
    4. Project is approved in the budget.

The county manager is further authorized to reject any and/or all bids received less than \$250,000.00 if it is in the best interest of the county. A report shall be made to the board of commissioners of all bids awarded and rejected under this subsection and entered in the minutes of its formal sessions

- b. Bids may be rejected for any reason determined by the board or the county manager, under his authority, for any reason determined to be in the best interest of the unit. However, the bid shall not be rejected for the purpose of evading the provisions of G.S. 143-129.

(Ord. No. 2011-07, 6-20-2011)

**Sec. 30-8. - Request for proposal (RFP).**

Requests for proposals (RFPs) are normally used in lieu of formal bids when the services of a professional are required by the county, including, but not limited to, accountants (CPAs), attorneys, and doctors. Certain procedures must be followed when utilizing the request for proposals:

- (1) Requests for proposals should be drawn up by the appropriate department with the assistance of the purchasing office in such manner as the department deems appropriate to solicit responses from providers.
- (2) The request for proposals should be distributed to potential contractors by the purchasing office.
- (3) After the purchasing manager and the department have evaluated the request for proposals and decided on a particular individual or firm, a contract and purchase order will be issued. If a contract is used, it must first be sent to the legal department to approve as to form and to finance director for preaudit.
- (4) The request for proposals process may also be used for the purchase of information technology goods and services. In such cases, the process must meet the following minimum requirements:
  - a. Notice of the request for proposals shall be given in accordance with G.S. 143-129(a).

- b. Contracts shall be awarded to the person who or entity that submits the best overall proposal as determined by the awarding authority. Factors to be considered in awarding contracts shall be identified in the requests for proposals. The "best value" process as stipulated in G.S. 143-135.9 may be used to award the contract. The term "best value procurement" means the selection of the contractor based on a determination of which proposal offers the best trade-off between price and performance, where quality is considered an integral performance factor.
- c. County staff may negotiate with any proposer in order to obtain a final contract that best meets the needs of the county. Negotiations allowed under this section shall not alter the contract beyond the scope of the original request for proposals in a manner that:
  1. Deprives the proposers or potential proposers of a fair opportunity to compete for the contract; and
  2. Would have resulted in the award of the contract to a different person or entity if the alterations had been included in the request for proposals.

Proposals submitted under this section shall not be subject to public inspection until the contract is award pursuant to G.S. 143-129.8.

(Ord. No. 2011-07, 6-20-2011)

#### Sec. 30-9. - Evaluation.

- (a) *Selection committee.* The purchasing manager will work with the department head that has primary responsibility for the items/services being procured and will designate the selection committee chairperson and members. The size of the selection committee is dependent on the nature and scope of the project.
- (b) *Evaluation criteria.* Evaluation criteria are the factors used to determine which proposal best meets the requirements identified in the RFP. In establishing effective evaluation criteria, a department must clearly identify the factors relevant to its selection of a vendor and then prioritize or weigh these factors according to their importance in satisfying the established criteria. Together, the proper identification and weighing of the evaluation criteria will form an evaluation plan, which will provide a common standard by which to judge the merit of competing responses. This allows ranking the proposals while simultaneously providing respondent's with a fair basis for comparison. Evaluation criteria should be individually tailored to each RFP. Evaluation criteria should reflect the department's minimum needs and should not be so restrictive as to limit competition. Evaluation criteria often encompass such factors as price or cost, technical excellence, management capability, personnel qualifications, experience and past performance. While price or cost must be included and will be a factor, price or cost need not be the deciding factor in all acquisitions.
- (c) *[Evaluation of responses.]* Responses should be evaluated based on predefined criteria and weighting methods. In most cases, the evaluation criteria are to be published in the RFP document but not their associated values and weights. RFPs involving information technology goods and services (G.S. 143-129.8) are required to include the criteria in the RFP document.
- (d) *[Evaluation committee.]* The evaluation committee should meet to distribute proposals, review evaluation methods, scoring sheets, and discuss the scoring and review process. Once the proposals have been evaluated and scored by each evaluator, the committee should meet again and the following events should occur:
  - (1) A master-scoring sheet should be compiled with the total score for each proposal by each evaluator or the committee as a whole, depending on the evaluation method used.
  - (2) Oral presentations or demonstrations may be needed in certain cases for clarifications or if additional information is needed. These sessions will be conducted using the following guidelines:

- a. All members of the evaluation committee should be present during oral presentations and interviews.
- b. Time limits for oral presentations will be equal in length.
- c. Interviews are to be conducted and controlled by the selection committee chairperson.

No information concerning a vendor's response or the evaluation progress will be provided to anyone outside the evaluation process or other county staff. Questions concerning the dissemination of information should be directed to the purchasing manager.

(Ord. No. 2011-07, 6-20-2011)

**Sec. 30-10. - Formal bid and request-for-proposal monetary limits.**

- (a) *When required.* Formal procedures must be followed when the purchase requires an estimated expenditure of \$90,000.00 or more. For construction, repairs and renovation, formal bid procedures must be followed if the project requires an estimated expenditure of \$500,000.00 or more, except where the work is to be done by county personnel (force account) and the total cost of the project will not exceed \$125,000.00, including all direct and indirect costs, or if the labor does not exceed \$50,000.00. Bidding requirements will still apply to apparatus, supplies, materials or equipment purchased for use on force account projects. Force account labor must be approved by the board of commissioners, and a record of all costs must be maintained for public inspection.
- (b) *Minority contractors; separate specifications and contracts.* If the cost for the construction of a building is estimated at \$300,000.00 or more, the county has established a five-percent goal for participation by minority contractors in the total value of work for which a contract is awarded pursuant to G.S. 143-128. In addition, for projects totaling \$300,000.00 or more, separate specifications and contracts must be prepared for the following areas of work:
  - (1) Heating, ventilating, air conditioning and accessories and/or refrigeration for cold storage (where the cooling load is 15 tons or more of refrigeration);
  - (2) Plumbing and gas fittings and accessories;
  - (3) Electrical wiring and installations; and
  - (4) General work not included in the three areas in subsections (1) thorough (3).
- (c) *Contracting methods.* For building construction or building repair projects \$300,000.00 and above, bids may be received by using (i) single-prime, (ii) separate-prime, (iii) dual bidding, (iv) construction management-at-risk contract or (v) alternative contracting methods authorized pursuant to G.S. 143-135.26(9) in accordance with the following:
  - (1) *Single-prime.* All bidders in a single-prime project shall be required to identify on their bid the contractors they have selected for the subdivisions or branches of work for: heating, ventilating, and air conditioning; plumbing; electrical; and general. The contract shall be awarded to the lowest responsible, responsive bidder, taking into consideration quality, performance, the time specified in the bids for performance of the contract, and compliance with G.S. 143-128.2. A contractor whose bid is accepted shall not substitute any person as subcontractor in the place of the subcontractors listed in the original bid, except:
    - a. If the listed subcontractor's bid is later determined by the contractor to be nonresponsive or nonresponsive, or the listed subcontractor refuses to enter into a contract for the complete performance of bid order; or
    - b. With the approval of the board of commissioners for good cause shown by the contractor.

When a contract is awarded using the single-prime method, the county shall make the dispute resolution process available to subcontractors.

- (2) *Separate-prime.* Bids shall be accepted for each subdivision of work for which specifications are required to be prepared, and bids shall be awarded separately to responsible and reliable

persons regularly engaged in their respective lines of work. Each separate contractor shall be directly liable to the county and to the other separate contractors for the full performance of all duties and obligations due under the terms of the contract. Contracts shall be awarded to the lowest, responsible, responsive bidders, taking into consideration quality, performance, the time specified in the bids for performance of the contract and compliance with G.S. 143-128.2.

- (3) *Dual bidding.* Bids may be received to erect, construct, alter or repair a building under both the single-prime and separate-prime contracting systems, and the contract shall be awarded to the lowest responsible, responsive bidder under the single-prime system or to the lowest responsible, responsive bidder under the separate-prime system, taking into consideration quality, performance and compliance with G.S. 143-128.2 and time specified in the bids to perform the contract. In determining the system under which the contract will be awarded to the lowest responsible, responsive bidder, the cost of construction oversight, time for completion, and other factors the county considers appropriate may be considered. The bids received as separate-prime bids shall be received, but not opened, no less than one hour prior to the deadline for the submission of single-prime bids. The amount of a bid submitted by a subcontractor to the general contractor under the single-prime system shall not exceed the amount bid, if any, for the same work by that subcontractor under the separate-prime system.
- (4) *Construction management contracts.*
- a. *Construction management services.* The term "construction management services" means services provided by a construction manager, which may include preparation and coordination of bid packages, scheduling, cost control, value engineering, evaluation, preconstruction services, and construction administration.
  - b. *Construction management-at-risk services.* The term "construction management-at-risk services" means services provided by a person who:
    - 1. Provides construction management services for a project throughout the preconstruction and construction phases;
    - 2. Is licensed as a general contractor; and
    - 3. Guarantees the cost of the project.
  - c. *Construction manager-at-risk.* The construction manager-at-risk shall contract directly with the county for all construction, shall publicly advertise, and shall prequalify and accept bids from first-tier subcontractors for all construction work. The construction manager-at-risk shall address quality, performance, the time specified in the bids for performance of the contract, the cost of construction oversight, time for completion, capacity to perform, and other factors deemed appropriate by the county. The county shall require the construction manager-at-risk to submit its plan for compliance with G.S. 143-128.2 for approval by the board of commissioners prior to soliciting bids for the project's first-tier subcontractors. A construction manager-at-risk and first-tier subcontractors shall make a good faith effort to recruit and select minority businesses for participation in contracts pursuant to G.S. 143-128.2. A construction manager-at-risk may perform a portion of the work only if:
    - 1. Bidding produces no responsible, responsive bidder for that portion of the work, the lowest responsible bidder will not execute a contract for the bid portion of the work or the subcontractor defaults and a prequalified replacement cannot be obtained in a timely manner; and
    - 2. The county approves of the construction manager-at-risk's performance of the work.
  - d. *Design-Build and Design-Build Bridging.* The Design-Builder contracts to provide both design services (architectural and engineering) and construction services under one contract. Design-Build is subject to Request for Qualification and is initially selected based on qualifications. A Design-Build Bridging contract is when the local government

contracts with a design-builder to complete project design and perform construction services. A design-build bridging contract is awarded to the lowest responsive, responsible bidder based on estimated costs of performing design and construction services.

All bids shall be opened publicly and once they are opened are public records. The construction manager-at-risk shall act as the fiduciary of the county in handling and opening bids. The construction manager-at-risk shall award the contract to the lowest responsive, responsive bidder, taking into consideration quality, performance, the time specified in the bids for the performance of the contract, the cost of construction oversight, time for completion, compliance with G.S. 143-128.2, and other factors deemed appropriate by the county and advertised as part of the bid solicitation. The county may require the selection of a different first-tier subcontractor for any portion of the work, provided the construction manager-at-risk is compensated for any additional cost incurred. When contracts are awarded using this method, the county shall provide for a dispute resolution procedure as provided in G.S. 143-128(g). The construction manager-at-risk shall provide a performance and payment bond to the county.

- (5) *Alternative contracting method.* Local governments can seek authority to modify bidding requirements for particular projects, specifically design-build projects for building construction.
- (d) *Performance and payment bonds.* When a project exceeds \$300,000.00, performance and payment bonds are required for each contract that exceeds \$50,000.00. No bid for construction or repair work valued at \$300,000.00 or above may be considered or accepted unless, at the time of the submittal, it is accompanied by a deposit in the form of cash or certified check, in an amount equal to not less than five percent of the proposal. In lieu of making a cash deposit, the bidder may file a bid bond executed by a corporate surety licensed under the laws of the state. The successful contractor shall be required to submit performance and payment bonds to secure the faithful performance of the terms of the contract and the payment of all sums due for labor and materials.
- (e) *Reporting requirements.* County staff shall report to the secretary of the department of administration the cost and effectiveness of the method used under this section. Reports shall include the following information:
  - (1) The method used;
  - (2) The total value of each project;
  - (3) The bid costs and relevant post bid costs;
  - (4) A detailed listing of all contractors and subcontractors used on the project, including identification of whether the contractor was an out of state contractor; and
  - (5) When an out-of-state contractor was used, the reasons why the contractor was selected.

The reports must be filed annually beginning April 1, 2003, and thereafter must be filed in the year in which the project is completed.

- (f) *Dispute resolution for building construction projects.* The county shall provide dispute-resolution procedures for all building construction or repair projects. The dispute-resolution procedures are available to all parties involved in the construction project, including the architect, the construction manager, and the contractors, including all levels of subcontractors, and are available for any issue arising out of the contract or construction process as long as the matter in dispute is \$15,000.00 or more. See dispute-resolution policy.
- (g) *Minority participation for building construction projects (formal bids).*
  - (1) Contractors, including first-tier subcontractors on construction management-at-risk projects, must identify on their bids the minority businesses they will use on the project and the total dollar value of the bid that will be performed by minority businesses. They must also include an affidavit listing the good-faith efforts they have made. If contractors intend to perform all of the work with their own forces, they may submit an affidavit.

- (2) After bids are received, the apparent lowest responsible bidder must provide either:
  - a. An affidavit describing the portion of the work to be executed by minority businesses, expressed as a percentage of the total contract amount showing a percentage equal to or more than the applicable goal on the project; or
  - b. Documentation of good-faith efforts to meet the goal, including any advertisements, solicitations, and evidence of other specific actions demonstrating recruitment and selection of minority businesses for participation in the contract.
- (3) Within 30 days after a contract is awarded, the successful contractor must list all identified subcontractors that will be used on the project. Failure to provide the affidavit or documentation required to demonstrate good faith efforts is grounds for rejection of a bid.
- (4) A subcontractor may not be replaced except:
  - a. When the subcontractor's bid is determined to be nonresponsible or nonresponsive or the subcontractor refuses to enter into a contract for the complete performance of the work; or
  - b. With the approval of the county for good cause.

When selecting a substitute contractor, the contractor must make and document good faith efforts. See guidelines and minority outreach plan, on file in the county offices.

(Ord. No. 2011-07, 6-20-2011)

(h) E-Verify required for formal construction contracts. All contractors and their respective subcontractors shall provide E-Verify Affidavits for any formal construction project prior to contracting with the County.

**State law reference—** Authority of county to lease real property and to employ county personnel under certain circumstances, G.S. 153A-165, 143-135.

#### Sec. 30-11. - Formal bid exceptions.

Formal bids are not required for the following:

- (1) State of emergency. The board of commissioners may set aside the normal requirements in an emergency involving the health and safety of people or their property. In such cases, the board of commissioners may let contracts as necessary in its discretion.
- (2) If a contract for the purchase, lease or other acquisition of any apparatus, supplies, materials or equipment is with the:
  - a. United States of America or any agency thereof; or
  - b. Any other governmental unit or agency thereof within the United States.
- (3) A project is exempt from formal bidding if it is a construction project that will not cost more than \$125,000.00, including all direct and indirect costs, or if the labor does not exceed \$50,000.00 and the work is to be done by the forces of the governmental unit involved. Bidding requirements will still apply to apparatus, supplies, materials or equipment purchased for use on force account projects. Force account labor must be approved by the board of commissioners, and a record of all costs must be maintained for public inspection.
- (4) Exemption from bidding is allowed for purchases from contractors who have, within the past 12 months, contracted to furnish the desired item to the federal government or any federal agency, another state government or agency, another local government or agency. The contractor must

be willing to furnish the items at the same or more favorable prices, terms, and conditions as those provided under the contract with the other unit or agency. A prior contract must have been let under public bidding process substantially similar to G.S. 143-129, and the board of commissioners must approve the contract at a regular meeting on ten days' notice, notwithstanding delegation of authority to award contracts. Notice may be published by electronic means.

- (5) Purchases made through a competitive bidding group purchasing program, which is a formally organized program that offers competitively bid purchasing services at discount prices to two or more public agencies.
- (6) Purchases using contracts established by the state or any agency of the state, if the contractor is willing to extend to a political subdivision of the state the same or more favorable prices, terms, or conditions as established in the state contract.
- (7) Purchase of used apparatus, supplies, materials, or equipment. For purposes of this subsection, remanufactured or refabricated apparatus, supplies, materials, or equipment are not deemed to be "used," and are not included in this exception.
- (8) Guaranteed energy savings contracts, which are governed by G.S. 143-64.10 et seq.
- (9) Purchase of information technology using contracts established by the state office of information technology services as provided in G.S. 147-33.82(b) and 147-33.92(b).
- (10) Purchase of gasoline, diesel fuel, alcohol fuel, motor oil, fuel oil, or natural gas. These purchases are subject to G.S. 143-131.
- (11) In accordance with G.S. 143-129, single-source items are exempt from bid procedures when performance or price competition for a product is not available, when a needed product is available from only one source of supply, or when standardization or compatibility is the overriding consideration. This subsection requires action by the board of commissioners notwithstanding delegation of authority to award contracts and requires a record of justification for use of the exemption.

(Ord. No. 2011-07, 6-20-2011)

**State law reference—** Exemptions from formal bid requirements, G.S. 143-129, 143-135.

**Sec. 30-12. - Informal bids.**

- (a) Informal bids are distinguished from formal bids by the following:
  - (1) The dollar amount to be purchased is less than \$90,000.00 or construction/repair work for expenditures is less than \$500,000.00.
  - (2) Written specifications are not required.
  - (3) Advertising for bids is not necessary.
  - (4) Written, sealed bids need not be submitted.
  - (5) Informal bids received shall remain confidential until the bid is awarded.
- (b) . Three quotes should be obtained for purchases between \$5,000.00, and \$90,000.00 for purchases of supplies and equipment unless it is a sole source item. For purchases of supplies and equipment between \$5,000.00 and \$30,000.00, the three-quote requirement can be waived with the approval of the purchasing manager. If quotes have been attempted and the item can only be obtained from one source, the informal purchase is accomplished by a fair and reasonable acceptance of the product by the department head affected and the purchasing manager.

- (1) The officer who receives such bids is to keep a record of all bids submitted and have these available for public inspection. This record shall include the company name, the contact person, the item quoted and the date the quote was received.
  - (2) When informal bids are received by a department, the quotes received should be listed on the purchase order and a copy forwarded to purchasing.
  - (c) Informal building construction and repair projects are accomplished by obtaining three written quotations for projects between \$30,000.00 and \$500,000.00. For building construction or repair contracts in the informal range, between \$30,000.00 and \$500,000.00, minority business contractors shall be solicited.
- (Ord. No. 2011-07, 6-20-2011)

**State law reference—** Bids to be available for inspection, G.S. 143-131.

**Sec. 30-13. - Award of bid.**

- (a) After receipt and evaluation of formal bid proposals, the purchasing manager shall make a recommendation to the county manager for purchases \$250,000.00 or less for projects approved in the budget. Such recommendation shall endorse the lowest responsible, responsive bidder, taking into consideration the following:
  - (1) Price.
  - (2) Quality.
  - (3) Performance.
  - (4) The time specified in the bid proposal for the performance of the contract (delivery or completion date).
- (b) Award of a bid by the board of commissioners or the county manager will result in execution of a purchase order and/or a contract. In general, a purchase order is used for a one-time purchase of supplies, equipment or services and for minor construction work. A contract and purchase order is used for nonprofessional services required over a period of time, for all professional services and for significant construction jobs.
- (c) Though dollar amounts generally determine whether formal or informal procedures are required, such practices may also be followed for purchases below the minimum cost in each category. The objective of the purchasing office is to secure with efficiency what is needed, when it is needed, and at the lowest reasonable cost. Competitive bidding can save dollars regardless of the estimated purchased amount.
- (d) The purchasing office must prepare or oversee the preparation of the specifications, hold a prebid conference when applicable, advertise for bids, and conduct the bid opening. Recommendations for bid award must be taken to the county manager for purchases less than \$250,000.00 for projects approved in the budget for approval. It is important that ordering departments anticipate needs timely and allow enough time after the request is submitted for the entire purchasing process to be completed whenever formal bid procedures must be followed.

(Ord. No. 2011-07, 6-20-2011)

**Sec. 30-14. - Contracts.**

All contracts proposed by any county department/agency must be preaudited prior to execution as required by G.S. 159-28. In compliance therewith the following procedures relative to contracts will apply:

- (1) All contracts should be sent to the finance director for preaudit as follows:



"This Instrument has been preaudited in the manner required by the Local Government Budget and Fiscal Control Act."

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Finance Director

- (2) A purchase order shall be issued for all contracts when county funds will be expended.
- (3) The contract will be sent to the staff attorney for approval as to form, prior to execution.
- (4) A copy of the contract will be maintained in the purchasing manager's office and the original returned to the department head.

(Ord. No. 2011-07, 6-20-2011)

**Sec. 30-15. - Vendor relationships.**

The purchasing/vendor relationship is one of mutuality. The promotion of good relations with vendors is an important function of the purchasing manager. Therefore, it is essential that the purchasing manager be aware of all transactions between the county and its vendors. The using departments/agencies should not be burdened with visits from vendors or their representatives nor with the work of purchasing. Much time shall be saved by complying with the following procedures:

- (1) All vendors' representatives are received by the purchasing office promptly and courteously.
- (2) The purchasing office will arrange interviews between vendors' representatives and other departments of the county.
- (3) The purchasing office will forward to departments and division heads useful information obtained from interviewing, direct mail and advertising.
- (4) When department/agency heads are visited by sales representatives, they should ascertain whether they have been sent to them from the purchasing manager. If not, they should be referred to the purchasing office.
- (5) Department contacts with vendors or their representatives may be necessary to gain information, such as availability of materials and services, delivery and manufacturing time, demonstrations and specifications.
- (6) The county is not bound by any commitment to a vendor by a department. Any such commitment shall be the exclusive responsibility of such department.
- (7) The purchasing office shall maintain an up-to-date bid list of all vendors requesting to do business with the county. This list shall be made available to all departments.
- (8) Commitment of county funds without an approved purchase order or preaudited contract is prohibited, and such commitment will not be honored for payment as provided by G.S. 159-28.
- (9) The county will not knowingly negotiate with any contractor or vendor which has been deemed by the Equal Employment Opportunity Commission to be in noncompliance with equal employment opportunity laws.

(Ord. No. 2011-07, 6-20-2011)

**Sec. 30-16. - Surplus property, in rem and complaint foreclosure on land, damaged property.**

- (a) If county property with a fair market value of \$1,000.00 or more becomes surplus to the county's needs due to obsolescence, end of useful life, or for any other reason deemed appropriate by the county, such property will be disposed of by means most advantageous to the county. This includes tangible personal property, buildings and structures, and real estate acquired in foreclosure proceedings for nonpayment of property taxes.

- (b) Property with an original value of \$5,000.00 or more must be declared surplus on a fixed asset form furnished by accounting. The completed form is approved by the department head and forwarded to the purchasing office. A work order should be completed by the department head and forwarded to the purchasing office. Purchasing will then determine if any other department needs the item; if not, the work order will be forwarded to maintenance so the items can be picked up and stored. The purchasing office then forwards the fixed asset form to accounting to update fixed assets. Once the property is disposed of, a list is then forwarded to accounting.
- (c) Disposal of surplus property is the responsibility of the purchasing office and is accomplished by trade-in at the time new equipment is purchased; transfer to another county agency; sale by public auction, electronic auction, private negotiation and sale; advertisement for sealed bids; negotiated offer, advertisement, and upset bid; or exchange. Trade-ins with purchase are specifically authorized and exempted from otherwise applicable statutes governing disposal of surplus property. A fixed asset form should be submitted for property that is traded in, when applicable. Award of the bid may be based on both the purchase of equipment and the sale of trade-in property, taking into consideration the amount offered on the trade-in when applying the criteria for award established in G.S. 143-129. Notice for public auction for real or personal property may be by electronic means.
- (d) If it is determined that trade-in is not to the advantage of the county, the surplus property will be offered to all other county agencies on an equal basis. A written notice of availability with a description of the surplus property will be distributed to all departments. Should an agency advise the purchasing office of an interest in the item, the purchasing manager will transfer to that agency the equipment on a request of need.
- (e) If the property is neither traded nor transferred, it is offered for sale by public auction, electronic auction, private negotiation and sale; advertisement for sealed bids; negotiated offer, advertisement, and upset bid; or exchange.
- (f) When the value of personal property is less than \$10,000.00 for any one item or group of items, the purchasing manager is authorized and may declare items surplus. When the value of personal property is between \$10,000.00 and \$30,000.00 the county manager is authorized and may declare items surplus. The county manager and/or the purchasing manager shall determine the fair market value, taking into consideration the present market value, depreciation, condition of the property, and other factors affecting value. After a determination of the fair market value, the purchasing manager, by any manner deemed necessary, is authorized to sell or exchange any property for fair market value and has full authority to convey good title to the property. A record of all transactions shall be kept generally describing the property sold or exchanged, to whom it was sold, or with whom exchanged, and the amount of money or other consideration received for each sale or exchange. The county manager and/or the purchasing manager may discard any personal property that:
  - (1) Is determined to have no value;
  - (2) Remains unsold or unclaimed after the county has exhausted efforts to sell the property using any applicable procedures; or
  - (3) Poses a threat to the public health or safety.
- (g) Any county employee who has the responsibility of declaring an item to be surplus property shall not purchase or obtain the item under any circumstances for personal use.
- (h) Surplus library books. Each branch library has a Friends of the Library organization. Library staff shall have the authority to transfer surplus and donated library materials to the Friends of the Library. Further, the Friends of the Library shall have the authority to sell donated or discarded county books on behalf of the county pursuant to G.S. 266(c). The Friends of the Library shall use the proceeds to purchase new library materials and programs.

(Ord. No. 2011-07, 6-20-2011)

Sec. 30-17. - Central warehouse.

The central warehouse was established to reduce the volume of paperwork generated to obtain a small number of repetitive items and to accelerate delivery time of these items. The central warehouse stocks printed forms and items bearing the name, seal, and other logotypes symbolizing the county, commonly known as county logo items. The procedure for ordering warehouse supplies is outlined in subsection 30-21(2).

(Ord. No. 2011-07, 6-20-2011)

**Sec. 30-18. - Emergency purchases.**

- (a) Emergency purchasing permission is granted only in extreme cases. During normal working hours, if, in the judgment of the department head, an emergency arises which necessitates immediate purchase of materials or services to continue with department operations, he notifies the purchasing manager of the emergency purchase which will be necessary and enters the purchase order in the computer system. The purchasing manager then processes the purchase order immediately, contacting finance for approval.
- (b) After working hours, the department head will decide if an emergency exists and in such case will authorize the necessary emergency purchase. A disbursement voucher shall be completed for any emergency purchase with an explanation attached.
- (c) In all cases, if the department head is not available, the decision regarding emergencies will be made by the finance director or assistant finance director. These procedures apply to all county agencies and departments.
- (d) Emergency procedures are not intended for purchases required because of failure to anticipate normal needs. Work should be planned in advance and material requirements determined so that items can be requisitioned as a regular purchase.

(Ord. No. 2011-07, 6-20-2011)

**Sec. 30-19. - Federal government surplus store.**

When items are obtained from the federal surplus store, the amount paid for them represents simply the cost of transferring them to the county. Such items are, therefore, not purchased, but transferred, and the purchasing manager assumes full responsibility for all surplus items. As such, these items must remain on county property or premises at all times. If government officials wish to inspect any of these items, the purchasing manager will be contacted and must be familiar with the items and their location. Therefore, the purchasing manager will check periodically with departments that utilize such items and equipment.

(Ord. No. 2011-07, 6-20-2011)

**Sec. 30-20. - Use of purchasing procedures and purchasing office required.**

- (a) The purchasing of goods and services utilized by county departments must be handled in accordance with the policies and procedures contained in this chapter.
- (b) The purchasing of such items and services shall be accomplished through the use of the purchasing office. The key to an efficient and economical central purchasing system is optimum use of that system.
- (c) While some exception to this policy will be allowed, e.g., emergency purchases as covered in section 30-18, failure to use the purchasing office may result in the county's refusal to pay invoices for such purchases.

(Ord. No. 2011-07, 6-20-2011)

**Sec. 30-21. - Purchasing procedures.**

Each county department is responsible for requesting, receiving, inspecting and accepting supplies and equipment for that department in accordance with the following:

(1) *Purchase order (entered via computer system).*

- a. A purchase order is used to request tangible goods or equipment which must be bought, excluding warehouse supplies. The ordering department should anticipate needs in sufficient time for normal processing by the purchasing office.
  1. Any tangible goods purchased which have a value of \$5,000.00 or more and a life expectancy of three years or more should be coded to the appropriate capital line item.
  2. All related expenses, e.g., shipping, installation, should be coded to the capital line item for the equipment purchased.
- b. The purchase order should be entered through the financial software system. The following information should be included:
  1. Buyer.
  2. Vendor.
  3. Shipment destination.
  4. Unit price.
  5. Contract number, if applicable.
  6. Description.
  7. Quantity.
  8. Unit of measure.
  9. Fund.
  10. Department identification.
  11. Account number.
  12. Project, if applicable.
- c. Refer to the financial software system user's guide for more detailed instructions or contact the purchasing office for assistance and/or the intranet for more detailed instructions. Contact the finance software administrator or the purchasing office for further assistance.
- d. The purchasing manager will review the purchase order, obtain pricing, if applicable and, if appropriate, approve the purchase order. The purchase order is then reviewed by finance for confirmation that the appropriate accounts were charged. If the wrong accounts were entered, the ordering department will be advised, and the order will be held until it is corrected.
- e. The purchasing manager has the authority to revise purchase orders and estimates of quantity, quality, or cost, as long as the established standards and specifications are maintained. If it is necessary to revise a purchase order, the ordering department will be informed immediately.
- f. Authorization in the department budget for a particular item does not authorize a specific purchase. The purchasing manager must review each request independently when it is submitted by the ordering department and can request further review by the finance department or county manager.

(2) *Central warehouse supplies.*

- a. All warehouse supplies will be listed in the supply catalogue provided to each department by the purchasing office and which is posted on the county's intranet. The central warehouse supplies include standardized, printed forms and items bearing the name, seal, and other logotypes symbolizing the county, commonly known as county logo items.
  - b. To request supplies, determine quantity needed, inventory number and account number. This information should be sent to the purchasing office via e-mail.
- (3) *Issuance of purchase order; processing; records; disbursement vouchers.* After submission of a purchase order by the user department and review by the purchasing office and finance, a purchase order is issued. The purchase order is a legal instrument that is sent to the vendor for the actual purchase of items and as such is a contract to buy on behalf of the county and to sell at a specified price on behalf of the vendor. State preaudit law requires dual signatures on all purchase orders issued, a designated purchasing office representative and a finance office representative. When both representatives have approved the purchase orders, they are distributed electronically to the vendor, finance department and requester.
- a. When an ordering department receives, inspects and accepts delivery of a complete order:
    - 1. The department should use the finance software system to obtain a voucher number.
    - 2. The voucher number should be written on the invoice and forwarded to finance.
    - 3. The voucher number should be written on the departmental copy of the purchase order and filed in that department for future reference.
  - b. When ordered goods are received, inspected and accepted as a partial or incomplete shipment, the ordering department uses the same procedures as listed in subsection (3)a.
    - 1. When the remainder of the order is received, the ordering department should again use the finance software system to obtain a voucher number.
    - 2. If the remainder of the order does not arrive in a reasonable time, the ordering department should notify the purchasing office by memorandum so the vendor can be contacted regarding the reason for the delay in shipment.
  - c. When a department receives partial delivery of an order and finds that the balance of the order is not needed, the department shall notify the purchasing office in writing and request cancellation of the remaining balance, provided the complete order has not yet been shipped and the vendor is agreeable. If a department wishes to cancel a purchase order in its entirety, the department head should immediately notify the purchasing office in writing and explain the reasons for the cancellation. The purchasing office will then notify the vendor directly; an ordering department may not contact the vendor personally to cancel a purchase order. Authorization for a cancellation may be made only by the purchasing manager.
  - d. A purchasing system is not efficient without the maintenance of up-to-date, accurate records on purchases made but not yet received. Until satisfactory delivery of such orders has occurred, the purchasing office has not achieved its ultimate goal. Therefore, it is important that the ordering department keep close check on expected delivery dates of purchase orders and notify the purchasing office of any outstanding orders so that necessary action may be taken. If follow-up action is required, the purchasing office will mail a letter to the vendor requesting that delivery be made or asking for an explanation of the delay. The purchasing office will then place the purchase order and a copy of the form letter in a suspense file. If the order is received on or before the new delivery date, no further action is required. If the items have not been received, the purchasing office will again contact the vendor as to the delay and/or cancel the purchase order if immediate delivery cannot be guaranteed.
  - e. There may be occasions when a department wishes to return merchandise to the vendor. In such case, the department head should notify the purchasing office so that the vendor

may be contacted and the return of the order negotiated. If the order is not to be replaced by the vendor, the department should request purchasing to cancel the purchase order.

- f. A disbursement voucher system will be used to request payment for goods and services when a purchase order is not feasible or when the invoice amount exceeds the purchase order amount. Examples of the kinds of transactions for which a disbursement voucher form will be used are as follows:
1. Purchases shall not exceed \$999.99 for all county departments. The county manager reserves the right to lower the purchase order limit for any department.
  2. Postage.
  3. Dues, subscriptions and advance registration fees.
  4. Payment of debt service charges.
  5. Sheriff's department requests for informant and narcotics monies.
  6. Newspaper advertising.
  7. Vehicle, equipment repair and emergency maintenance repair.
  8. Payments to the county manager, board of commissioners, the county attorney and members of other county boards.
  9. All requests for payment of invoices wherein a purchase order has not been completed.
  10. Temporary nonemployee or professional workers not covered by a contract.
  11. Refunds.
  12. Utilities.
  13. Library books received on approval.
  14. Advance travel conference or lodging reservations.
  15. Employee reimbursements.
  16. Client assistance payments.
  17. Medical.
  18. Equipment service contracts.
- g. Any payment on a disbursement voucher which should have had a purchase order issued must be accompanied by a memorandum stating why a purchase order was not obtained and if any corrective action has been taken to prevent further occurrences.

(Ord. No. 2011-07, 6-20-2011)

**Sec. 30-22. - Completion of disbursement voucher form.**

- (a) The disbursement voucher form referenced in subsection 30-21(3)f. shall be completed and shall be completed using the on-line financial system.
- (b) A .pdf copy of the invoice will be attached to the voucher using the on-line financial system and the daily Accounts Payable Voucher spreadsheet shall be emailed to Accounts Payable.

(Ord. No. 2011-07, 6-20-2011)

**Sec. 30-23. - Procurement card procedures.**

- (a) The procurement card program was established to provide a more rapid turnaround of requests for low-dollar-value goods and to reduce paperwork and handling costs. Those requesters who have

been issued credit cards may initiate transactions in person, on the internet, or by telephone, within the limits of these procedures, and may receive goods.

- (b) Department heads may propose an employee to be a cardholder by completing the request for credit card form; the form can be found on the county's intranet. The request is to be forwarded to the purchasing office for processing. The proposed cardholder shall be issued a copy of this procedure and shall be required to acknowledge (countersign) an authorization memorandum, indicating the cardholder understands the procedures.
- (c) Team cards are available for units and/or departments. The team card is one card with several authorized users.
- (d) The unique credit card that the cardholder receives has his name embossed on it and shall only be used by the cardholder. No other person is authorized to use that card.
- (e) Use of the credit card shall be limited to the following conditions:
  - (1) Payment for a purchase will not be split into multiple transactions to stay within the single purchase limit.
  - (2) All items purchased over the counter must be immediately available at the time of the credit card use. No back ordering of merchandise is allowed.
  - (3) The credit card shall not be used for the following:
    - a. Personal purchase or identification.
    - b. A single purchase of supplies or equipment that exceeds the purchase order limit.
    - c. Cash advances.
    - d. Telephone calls.
    - e. Purchase of alcoholic beverages.
    - f. Payment for spouse-related travel expenses.
- (f) The single transaction limit for the purchase of supplies and material is \$499.99. Travel expenses and non-tangible training items may exceed \$499.99 for a single transaction. At the finance director's discretion, a department head's employee's single transaction limit can be \$999.99, and he may designate staff that has responsibility for purchasing within the department to have a single transaction limit of \$999.99.
- (g) The assistant finance director and the purchasing manager may authorize exemptions to the single transaction limit under special circumstances.

(Ord. No. 2011-07, 6-20-2011)

This the 16<sup>th</sup> day of March, 2015.

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Randy Isenhower, Chair  
Catawba County Board of Commissioners

# North Carolina 911 Board Grant Application

## General Information

**Project Title** Catawba County Backup PSAP Plan

**Grant Fiscal Year - 2017**

**Project Director** Catawba County 911 Communications Manager

**Project Contact** Brian A. Drum

**Project Contact Title** Catawba County 911 Communications Manager

**Address** PO Box 389, Newton, NC, 28658

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*Three types of grants are available, as described below. In the box following these descriptions, please select the Grant Type which most appropriately fits your request.*

- **Consolidation** - A consolidation project involves combining one or more PSAPs with a primary PSAP with an integrated management structure that serves the same populations and jurisdictions previously served by offering grant funding for both PSAP costs authorized under G.S. 143B-1406(e) and costs not authorized under G.S. 143B-1406(e) to include construction costs.
- **Individual PSAP Enhancement/Replacement** -the relocation costs of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.
- **Regional Initiative Enhancement/Replacement** - Regional initiatives are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such initiatives comprise projects involving two or more primary PSAPs or a primary PSAP with approved secondary PSAPs. Costs of relocation of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.



**Grant Type Regional Initiative Enhancement/Replacement**

**PSAP Name. Catawba Co Communications Center**

- 1. Has the Revenue/Expenditure Report for FY15 been completed and approved by the NC 911 Board Fiscal staff for the applicant PSAP?**

YES

- 2. Has the applicant PSAP submitted a plan and secured the means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP (backup plan)?**

YES

- 3. If the answer to #2 above is yes, does the PSAP have the means to implement the plan before 7/1/16?**

NO

- 4. If plan implementation will not occur before July 1, 2016, has an extension been requested?**

YES

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# Project Description

***Required for all grant types, this should be a thorough, concise, and complete description of the proposed project.***

## **5. Please outline project goals and objectives.**

For several years Catawba County 911 (county) and City of Hickory Police Department (Hickory) have had a gentlemen's agreement that Hickory would provide the county with backup 911 services. In early 2015, the agreement was determined to not adequately provide the high level of 911 services expected by the county. The county began exploring options on how best to provide these services from an alternate location with minimal disruption. Since the county and Hickory had already been working together, the county felt it was best to continue to build on the relationship already in place.

The county and Hickory worked together to develop a backup PSAP plan that would utilize an area not being used at Hickory. With both agencies working together, it will minimize the cost to establish and maintain an effective backup PSAP. The backup PSAP plan was submitted to the 911 board staff on April 25, 2016 for approval. (Attachment 1)

Goal 1: The primary goal is to become compliant with G.S. 143B-1406.f(5), by having a plan and means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP.

Goal 2: The secondary goal is to reduce and minimize the possibilities of 911 service disruption to Catawba County both today and into the future.

These goals can be accomplished by the following objectives:

Objective 1: Partner with Hickory to utilize areas not being used to help reduce the cost of establishing a backup PSAP.

Objective 2: Purchase and install the necessary equipment to allow the county to continue to receive, process, and dispatch 911 calls for service. This equipment would include 911 phones, radio consoles, CAD, mapping, and console furniture. All purchased equipment will be expandable for future growth.

Objective 3: Incorporate the ability for Hickory to use any of the backup PSAP equipment for incidents that would require additional workstations in their center.

Objective 4: Continue to work with Hickory to identify any ways to streamline the current proposed plan to best serve the citizens and visitors of Catawba County.

## **6. Please provide an implementation strategy and work plan, including a timeline.**

The Catawba County 911 backup PSAP plan intends to equip a backup PSAP location with the ability to continue to receive, process, and dispatch 911 calls for service in the event the primary PSAP location is inhabitable for any reason. The backup PSAP will be equipped with six (6) new call-taking and dispatch positions: 911 phone equipment, CAD & mapping workstations, console furniture, CAD & mapping servers, radio dispatch consoles, and associated radio system

infrastructure.

The equipment for the backup PSAP will be new installations and will not require any type of downtime to the current system. The area to be used for the backup PSAP at Hickory will not require any relocation of the existing 911 or dispatch equipment. This should not require any type of downtime to their system as well.

Once funding has been secured for the project, Catawba County will begin the procurement process for all the necessary equipment. Catawba County will use accepted means of purchasing. Once all the necessary equipment has been procured, the County will work with the vendors on a plan to have everything ordered, installed, and tested within 7 to 9 months.

Major equipment to be purchased, installed and tested:

- CAD & mapping server/data storage
- Console furniture
- Motorola MIP5000 radio dispatch consoles
- Airbus VESTA 9-1-1 phone positions
- CAD & mapping desktop workstations

Attachment 2 contains a more detailed implementation timeline.

**7. Please identify the interface or compatibility between existing equipment and/or software and that which you intend to purchase.**

The Catawba County backup PSAP plan allows for as much integration into all the existing components of the primary PSAP as possible. The plan will incorporate the use of the Airbus VESTA 9-1-1 phone system which is currently in use in the primary PSAP. The county will add six (6) new positions to the phone system. The server used for the CAD & mapping will be used both as a primary server for the backup PSAP but also as a backup server to the primary PSAP. The CAP, mapping and all other associated software will be what is currently in use in the primary PSAP. For CAD & mapping, the vendor has allowed the use of “dark” license and only requiring a minimal annual maintenance fee. The radio dispatch console will be slightly different from what is currently used but, will have all the same functions and features. The console furniture for the backup PSAP will match the furniture used by Hickory. This will allow for the most efficient use of the available space.

## Statement of Need

***Required for all grant types, this statement should reference the relationship of the grant project to NCGS §143b-1407(b) and the current funding priorities established by the Grant Policy and Procedures and include evidence of any financial need.***

### **8. Please indicate how your PSAP or group of PSAPs meets the statutory criterion of serving a rural or high cost area.**

G.S. 53A-37(5) defines a rural area as any county in North Carolina which does not include within its boundaries a city, as defined by G.S. 160A-1(2), with a population greater than one percent (1%) of the population of North Carolina.

The Catawba Co Communications Center is the primary PSAP for Catawba County. The county meets the definition of a "rural area" as defined in G.S. 53A-37(5).

In 2015 the United States Census Bureau estimated the population of North Carolina was 10,042,802. The City of Hickory currently has the largest population of any city in Catawba County. In 2015 the United States Census Bureau estimated Hickory's population was 40,374. These estimates show, the City of Hickory's population is only four tenths of a percent (0.4%) of the state's population. This shows Catawba County meets the definition of being a rural area set forth in G.S. 53A-37(5).

G.S. 143B-437.08 ranks counties annually in one of three development tiers. If no ties exist there will be 40 Tier One counties (most distressed), 40 Tier Two counties, and 20 Tier Three counties (least distressed). The rankings for the tier grouping are based on four factors: average unemployment rates, median household income, percentage growth in population, and adjusted property tax base per capita.

In 2015 and 2016 the North Carolina Department of Commerce designated Catawba County as a "Tier Two" county in the state as laid out in G.S. 143B-437.08.

In 2015, Catawba County was ranked 61 (1 being most distressed) in economic distress and an adjusted county ranking of 72. In 2016, Catawba County is ranked 71 in economic distress and an adjusted county ranking of 78.

### **9. Please identify funding priorities, their impact on operational services, and consequences of not receiving funding.**

The funding priority is to implement the backup PSAP plan the Catawba Co Communications Center previously submitted to the 911 board. The plan outlines the means by which the 911 call-taking and call dispatching functions will continue at an alternate PSAP location in the event 911 calls cannot be received and processed in the primary PSAP. Having both the plan and means in place along with the requested extension will allow the Catawba Co Communications Center the ability to become compliant with G.S. 143B-1406.f(5) by July 1, 2017. (Attachment 4)

The ability to have a backup PSAP location will dramatically reduce the potential for a disruption of 911 services to the citizens and visitors of Catawba County. This also provides a safe location for the telecommunicators to be relocated to in the event the primary PSAP becomes unsafe. The backup

plan is designed to be cost effective and still allow for the telecommunicators a work environment that is very similar to the primary PSAP. Having a familiar work environment for the telecommunicators will help them maintain the high level of service they provide normally.

Failure to receive funding for the backup PSAP plan would result in delaying the implementation of the plan beyond the July 1, 2017 date, making Catawba Co Communications Center noncompliant with G.S. 143B-1406.f(5). Currently there is no local funding available in the FY2016 or FY2017 budget for the plan. Additionally, failure to receive funding would not allow the Catawba Co Communications Center the ability to provide the higher level of 911 services to the citizens and visitors to Catawba County that the plan lies out.

**10. Please provide a copy of your PSAP's long-term or strategic technology plan and identify how the project fits within it.**

The proposed backup PSAP plan enables the Catawba Co Communications Center to continue building on the strategic technology plan in place. The strategic technology plan highlights having a state of the art 911 center having a separate and redundant server and databases. The backup PSAP plan includes a separate and redundant server and database at the backup PSAP locations. Each major component of the call-taking and dispatch process will have the ability to work independent of the primary PSAP. The backup PSAP servers will constantly be replicating the information from the primary PSAP servers. (Attachment 5)

**11. Please identify the likelihood of completing the project utilizing your 911 fund balance and the percentage of grant funding being requested in relation to total project costs.**

Catawba County is requesting 100% of the backup PSAP plan be funded by the grant. As of March 6, 2016, Catawba County has an estimated \$504,550.69 of 911 surcharge funds not allocated for either normal operating expenses or cost associated with the construction of the new 911 center currently being built. Two additional expenses for the new 911 center not included in the above amount are a percentage of \$173,172.11 for an 80 KVA 480V UPS and also a percentage of an estimated \$200,000 for server equipment used for CAD & mapping. If the full amount of the two additional items is deemed an allowable expense, it would reduce the county's 911 fund balance to approximately \$131,378.58. This would be less than \$32,000 from the allowed carry forward amount of \$98,787.94 for FY2017. (Attachment 6)

That being said, Catawba County does not have any local funds allocated in the FY2017 budget for the implementation of the backup PSAP plan. Failure to receive 100% grant funding for the backup PSAP plan would result in delays causing the Catawba Co Communications Center to not be compliant with G.S. 143B-1406.f(5) by the July 1, 2017 date.

# ***Regional Initiative Enhancement/Replacement Project***

***Required for all Regional Initiative Enhancement/Replacement project types.***

***Regional initiative enhancement/replacement projects are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such projects may involve two or more primary PSAPs.***

## **12. What is the relationship of participating PSAPs to the initiative? Provide MOUs between PSAPs identifying each participant PSAP's responsibilities to the project.**

Even though this is not a collaborative effort between two primary PSAPs, it is one between a primary and a secondary PSAP. It shows how the two agencies are coming together to help reduce cost and still provide the necessary services to both agencies.

Catawba Co Communications Center (primary PSAP) and Hickory Police Department (secondary PSAP) understand the importance in partnering together on projects to help reduce the cost of possible duplications of unnecessary technologies and facilities. In 2015 Catawba County and Hickory Police Department signed an MOU to share the geo-diverse Cassidian Sentinel 9-1-1 system (now Airbus VESTA 9-1-1). Moving Side B of the system to Hickory allowed them to replace their aging CML Rescue Star 911 system with the newer technology of the Airbus VESTA 9-1-1 system. This also laid the ground work for the county to cost effectively use the geo-diversity of the system as an integral part of the backup PSAP plan. (Attachment 7)

As part of the backup PSAP plan, the county needed a space that could hold at least six call-taking workstations and all the associated equipment. Hickory had the available space and offered it to the county for use as the backup PSAP location. The area is large enough for future expansion if needed. On April 14, 2016, Catawba County and the City of Hickory signed a MOU allowing the County to install all the necessary equipment for the backup PSAP. (Attachment 1 pages 1 and 2)

## **13. Identify intended collaborative efforts between participating PSAPs.**

Catawba County and Hickory will continue to take any necessary steps to maintain the geo-diversity of the Airbus VESTA 9-1-1 system. This includes maintaining primary and secondary network connections between the two locations. Hickory allowing the county to occupy a portion of their 911 center, keeps the county's backup 911 positions as close as possible to the Side B equipment. This will help reduce the chances of a network connection failure by reducing the number of points of failure between the equipment. The county and Hickory will participate in joint training on the equipment in the backup PSAP once a quarter. This will allow the telecommunicators of both agencies to become familiar or maintain a familiarity with the process and equipment at the backup PSAP. Having the telecommunicators familiar with the process and equipment will allow them to continue to function in a manner to which they can provide a high level of 911 services.

## **14. Identify how resource sharing will take place.**

There are two primary resources that will be shared with this project. The first resource is the Airbus VESTA 9-1-1 system. Even though the cost of the move of

Side B of the system is not part of this grant, the sharing of the system is a major component of the backup PSAP plan. The other resource is simply the space Hickory is allowing the county to utilize. Without the space to permanently setup the backup PSAP equipment, it would take the county a longer amount of time to become fully functional in the backup location. This would prolong the amount of time the additional workload would be placed on the interim backup PSAP staff (Hickory PD).

**15. Indicate how the initiative impacts the operational or strategic plans of the participating agencies.**

The initiative strengthens the reliability of Catawba Co Communications Center being able to continuously receive 911 calls. This also aligns with the strategic technology plan the county has in place by having an offsite location and the infrastructure in place to locate a redundant server for CAD & mapping data.

Hickory would have increased capabilities within their center in the event they had a large incident or a large planned event that required the additional call-taking/dispatching positions. The only negative impact on Hickory would be when they act as the interim PSAP. During this time the 911 call volume they receive would increase until the county could relocate to the backup PSAP.

**NOTE:** The following section on “Consolidation Project Plan” is **ONLY** required if your type of grant is a “Consolidation”. If your project **IS NOT** a Consolidation, proceed to question # 23 to complete the grant application.

**16. Indicate how a consolidation would take place and improve service**

N/A

**17. Indicate how the consolidated PSAP should be organized and staffed**

N/A

**18. Indicate what services the consolidated PSAP should perform**

N/A

**19. Indicate how consolidated PSAP policies should be made and changed**

N/A

**20. Indicate how the consolidated PSAP should be funded exclusive of grant funding**

N/A

**21. Indicate what changes or improvements should be made to inter-communications among the local governments participating in the consolidation in order to better support operations.**

N/A

**22. Discuss sustainability of the consolidation project during the proposed term of the project, and for the foreseeable future.**

N/A





## FINANCIAL DATA

**23. Current 911 Fund Balance**

\$2,215,948.97 (Attachment 6 last page)

**24. Amount Requested**

\$899,476.10

**25. Total Project Cost**

\$899,476.10

## Budget and Budget Narrative

***A budget and budget narrative must be supplied for all types of projects, as well as a copy of the applicant agency's approved FY 2016 PSAP budget.***

### **26. List planned expenditures**

Airbus VESTA 9-1-1 phone positions \$118,890.71  
Eaton Wrightline dispatch furniture \$106,129.72  
Motorola MIP5000 radio dispatch consoles \$450,056.89  
Sirius CAD & mapping server \$83,391.50  
CAD & mapping PC workstations \$11,257.92  
PC monitors \$4,434.33  
Microsoft Office \$2,000.88  
TriTech CAD & GeoComm mapping llicense and service \$5,070.00  
ProQA software & backup EMD cardsets \$27,454.00  
Print2Email \$199.98  
Dispatch chairs \$2,219.94  
Uninterrupted Power Supply (UPS) \$6,599.67  
Project Subtotal \$817,705.54  
Project Contingency (10% of total projected expenses) \$81,770.56  
Project Total \$899,476.10

### **27. Provide a budget narrative that briefly explains the reason for each requested budget item.**

Airbus VESTA 9-1-1 workstation (6)

Catawba County received a quote from Wireless Communications for six additional Airbus VESTA 9-1-1 phone positions and the cost of their installation. Airbus VESTA 9-1-1 is the same 911 equipment used at the primary PSAP. With Side B of the system being located at Hickory PD, it will allow for the seamless transition of call-taking from the primary PSAP to the backup PSAP.

Eaton Wrightline dispatch furniture

Catawba County received a quote from Wireless Communcations for six Eaton Wrightline dispatch console furniture positions. Eaton Wrightline furniture is what Hickory currently uses. This will allow for direct intergration into the furniture already in use. By intergrating with the existing furniture, it optimizes the amount of space being used and allows for additional positions for future growth.

Motorola MIP5000 radio dispatch consoles

Catawba County received a quote from Wireless Communications for a six position Motorola MIP5000 dispatch radio console system with the ability to expand to additional positions as growth requires. The Motorola MIP5000 is only slightly different from the current Motorola Centracom Gold

Elite consoles used by the County. The MIP5000 does however have the same basic features as the Centracom Gold. This will allow for less of a learning curve for the telecommunicators transitioning from the primary PSAP to the backup PSAP. An exact match to the current system was much more costly and therefore ruled out.

#### Sirius CAD & mapping server

Catawba County received a quote from Sirius for a dedicated CAD & mapping server to be located at the backup PSAP. The server will not only function as a standalone server at the backup, it will also function as an offsite backup server for the primary PSAP. The server will be setup to periodically backup the near real time CAD & mapping information from the primary server located at the primary PSAP. If there is a failure of the primary server, the server located at the backup PSAP will be relatively up to date and can act as the CAD & mapping server for either PSAP location.

#### CAD & mapping PC workstations

Catawba County received a quote from Hewlett-Packard (HP) for the cost of an HP Z440 Microsoft Windows Workstation. The workstations will have the capacity to handle the processor workload required to run CAD, mapping, and any other associated software required for the telecommunicator to process and dispatch 911 calls.

#### PC monitors

Catawba County received a quote from DELL for the cost of 72 (only 24 will be used at the backup PSAP location) 24 inch monitors. The monitors will be used with the PC workstations to provide enough visible display space for the telecommunicators to see all the necessary software programs to process 911 calls. The monitors will be used to display CAD software, mapping software, and any other associated software.

#### Microsoft Office

Catawba County received a quote for six licenses for Microsoft Office 2013. Office is used to be able to open documents received by the communications center via email that may be sent in one of Microsoft's different formats. Some agencies, both within and also outside of Catawba County send important information using Word or Excel. Having Office gives the telecommunicators the ability to access these documents. Catawba Co Communications Center uses Outlook to send CAD reports to first response agencies.

#### TriTech CAD and GeoComm mapping software

Catawba County received a quote for the reuse and installation support of six CAD & mapping licenses from TriTech software systems. TriTech is the reselling partner for the GeoComm GeoLynx mapping solution that Catawba County uses. Both products are currently used in the primary PSAP to assist in the call-taking process, call location information, dispatching process, and resource tracking. The ability to reuse the licenses will reduce the overall cost of the plan. It will also allow the telecommunicators to use the same CAD & mapping that they are already familiar with.

#### ProQA software and cardsets

Catawba County received a quote from Priority Dispatch for six ProQA software licenses and six backup cardsets. Catawba County uses ProQA and the backup cardsets as the means for telecommunicators to follow the Emergency Medical Dispatch protocol.

#### Print2Email

Catawba County received a quote from BlackIce.com for six licenses for Print2Email. Print2Email is used by the telecommunicators in conjunction with Microsoft Outlook to disseminate CAD reports to the first response agencies.

#### Dispatch Chairs

Catawba County obtained a cost estimate from Office Depot for six office chairs. These chairs will be used to allow the telecommunicators to sit at the dispatch consoles and perform the duties and task required of them.

#### Uninterrupted Power Supply (UPS)

Catawba County obtained a cost estimate from Office Depot for thirty three (33) uninterrupted power supplies (UPS). The UPS will be used to ensure the phones, PC workstations, dispatch consoles, and radio transmitters will stay operational in the event the power provided to the facility is transitioned from street power to generator power. A UPS is also used to limit the amount of power surge being passed through to the end fixed equipment.

#### Project contingency (10%)

This fund is set aside to offset any overages or unplanned cost of the budgeted items.

(Attachment 8 contains 2016 budget information)

(Attachment 9 contains quote information)

### **28. State how you will follow applicable procurement law, rules, and policies.**

All products and services for the project will be procured following the policies and procedures set forth in the Catawba County Code of Ordinances, Chapter 30. (Attachment 10)

Catawba County follows the statutory provisions regulating purchasing by local governments. These regulations are contained primarily in G.S. 143-129 – 143-135. Other specific duties, responsibilities and authorities are contained in G.S. chapters 14, 44, 66, 75, 87, 105, 153, 160A and 159, the Local Government Budget and Fiscal Control Act. By virtue of these statutes, the county is empowered to enter into contracts for procurement of materials and services.

### **29. If the project will have ongoing expenses, such as monthly recurring charges, describe plans and specific sources for future/long-term funding and demonstrate how the project will be sustained in the future without additional 911 Grant Program funding.**

The backup PSAP plan will have both 911 surcharge eligible and non-eligible recurring operational cost. Catawba County will seek approval for continued funding for the 911 surcharge eligible recurring expenses through the North Carolina 911 board. The non-eligible recurring expenses will be covered by the Catawba County general fund.

# Evaluation

***All applications must include evaluation information. The final report shall include an evaluation demonstrating that the equipment or services funded by the grant have been purchased, installed/implemented, and are performing as expected.***

**30. Explain how your evaluation will measure the achievement of the goals and objectives identified in the Project Description with a timeline for meeting short, intermediate, and long term goals.**

The evaluation of milestones and the determination of objectives being satisfied for the project will closely align with the implementation timeline provided as part of the backup PSAP plan. The timeline will be adjusted based on the timing of the grant being awarded. All stakeholders will be involved in determining if the milestones and objectives have been achieved. The stakeholders will be known as the project team.

Awarding of the grant (August 1, 2016)

Procurement process – 90 days (November 28, 2016)

CAD & mapping server/data storage – 135 days (January 11, 2017)

- Delivery – 60 days
- Installation – 60 days
- Testing – 15 days

Console furniture – 155 days (January 31, 2017)

- Procurement process – 90 days
- Delivery – 60 days
- Installation – 5 days

Motorola MIP5000 radio dispatch console equipment – 190 day (March 7, 2017)

- Procurement process – 90 days
- Delivery – 45 days
- Installation – 15 days (30 days total)
- Testing – 15 days

Airbus VESTA 9-1-1 phone positions – 190 days (March 7, 2017)

- Procurement process – 90 days
- Delivery – 45 days
- Installation – 20 days
- Testing – 15 days

CAD & mapping PC workstations – 195 days (March 12, 2017)

- Procurement process – 90 days
- Installation and setup – 45 days (beginning on day 135)
- Testing – 15 days

Backup PSAP plan go live date – 200 days (March 17, 2017)

- Tie up loose ends – 5 days

(Attachment 2)

**31. Describe how evaluations will be conducted, including performance parameters which must be met in order to meet acceptance criteria.**

The project team will determine and conduct the evaluations of all milestones and objectives associated with the project. Evaluations will be conducted on routine intervals that will be determined by the team. The interval of evaluations can be adjusted to meet the needs of the project, request of the 911 board, or the request of any other governing body or agency. The evaluation criteria will include; expected installation timeframe, industry standards for proper installation, and meeting or exceeding accepted industry performance standards. The project contact will be involved in all project evaluations.

**32. Identify how data will be collected and presented**

The project team will compile and review all the necessary data associated with the project. All data will be collected and maintained in a common format that will allow the entire project team to stay up to date on the status of the project. Data points collected might include but not limited to: scheduling and timelines, project budget status, testing, compliance, and acceptance.

**Attachment – 1**

**Questions – 5 and 12**

**MEMORANDUM OF UNDERSTANDING BETWEEN CATAWBA COUNTY AND CITY OF  
HICKORY FOR A PUBLIC SAFETY ANSWERING POINT BACK-UP PLAN**

This Memorandum of Understanding ("MOU") is made and entered into this the 14<sup>th</sup> day of April, 2016 ("Effective Date"), by and between Catawba County, a political subdivision of the State of North Carolina ("County") and City of Hickory, a body politic existing under the laws of the State of North Carolina ("Hickory").

**W I T N E S S E T H**

WHEREAS, County is the primary Public-Safety Answering Point (PSAP) and Hickory is a Secondary PSAP for Catawba County, North Carolina; and

WHEREAS, Chapter 143B of the North Carolina General Statutes requires counties to develop a back-up PSAP plan in the event of any occurrence that takes the primary PSAP offline and prevents calls from being completed by the primary PSAP; and

WHEREAS, approval of County's PSAP Back-up Plan ("Back-up Plan") by the 911 Board is contingent upon County and Hickory executing this MOU; and

WHEREAS, Hickory has the desire and capacity at the City of Hickory's 911 Communication Center to serve as the back-up PSAP for County.

NOW, THEREFORE, the parties agree as follows:

1. The Back-up Plan approved by the 911 Board, and any amendment to the Back-up Plan, is fully incorporated into this MOU by reference.
2. Hickory agrees to:
  - a. Allow County to install in Hickory's 911 communication center up to eight (8) telecommunication stations and related equipment, including but not limited to, console furniture, monitor stands, computers, computer accessories, telephones, radios, and chairs.
  - b. Allow County employees and vendors to access the stations as needed.
3. County agrees to:
  - a. Contact Hickory in advance when an employee or vendor needs access to the stations.
  - b. Have County employees and vendors comply with Hickory's security protocols.
  - c. Maintain contents insurance on County's equipment located in Hickory's 911 communication center.
  - d. Allow Hickory's certified telecommunicators to use County's stations and equipment if County is not using, or expected to be using, the stations and equipment.
4. The parties agree to develop and approve a standard operating guideline outlining the procedures for implementing the Back-up Plan.
5. The parties agree to participate in quarterly tests of the Back-up Plan.
6. All notices and communications required or permitted to be given hereunder shall be in writing and hand delivered, faxed, or mailed to the following:



Hickory:  
Deputy Chief of Police  
347 2nd Ave SW  
Hickory, NC 28602  
Telephone: 828- 261-2600  
Fax: 828-328-6146

County:  
Emergency Services Director  
PO Box 389  
Newton, NC 28658  
Telephone: 828-465-8201  
Fax: 828-465-8392

7. The term of this MOU shall commence on the Effective Date and will continue until one of the parties delivers a Notice of Intent to Terminate to the other party at least twelve (12) months prior to termination. Upon termination, County will remove all telecommunication stations, equipment, and any other assets installed or placed at Hickory pursuant to this MOU.
8. This MOU shall be governed and construed by the laws of the State of North Carolina. Venue shall be proper and shall lie exclusively in the Superior Court of Catawba County, North Carolina.
9. This MOU contains the entire agreement between County and Hickory.
10. This MOU or any right hereunder, shall not be assigned by either party, nor shall any duty hereunder be delegated by either party, without the express written consent of the other party. Any attempt at assignment or delegation without such consent shall be void.
11. This MOU does not constitute either party an employee, agent, representative, joint venturer or partner of the other party for any purpose whatsoever. Neither party is authorized to make any contract, agreement, warranty or representation, express or implied, on behalf of the other party. Neither party nor any employee or agent of a party has an employment status with the other party. All persons employed by County to perform services hereunder shall be subject to the exclusive direction and control of County. All persons employed by Hickory to perform services hereunder shall be subject to the exclusive direction and control of Hickory.

Catawba County

By: \_\_\_\_\_

City of Hickory

By: \_\_\_\_\_

**THIS INSTRUMENT** has been preaudited in the manner required by the Local Government Budget and Fiscal Control Act as amended.

Date: \_\_\_\_\_

4-7-2016

Jeanne Jarrett  
Jeanne Jarrett, Interim Finance Director

**APPROVED AS TO FORM**

Date: \_\_\_\_\_

4-7-16

Jodi Stewart  
Jodi Stewart, Assistant County Attorney

# Request for Backup Plan Approval

PSAP Name:

Catawba County Communications Center

PSAP Plan Contact (title/telephone number/email address):

Brian A Drum

911 Communications Manager

828.465.8330

badrum@catawbacountync.gov

## Location

Where is the Primary PSAP located (street address)?

100 Southwest Blvd

Newton, NC 28658

Where is the Backup PSAP located (street address)?

347 2<sup>nd</sup> Av SW

Hickory, NC 28602

What other departments are located in the Backup PSAP facility?

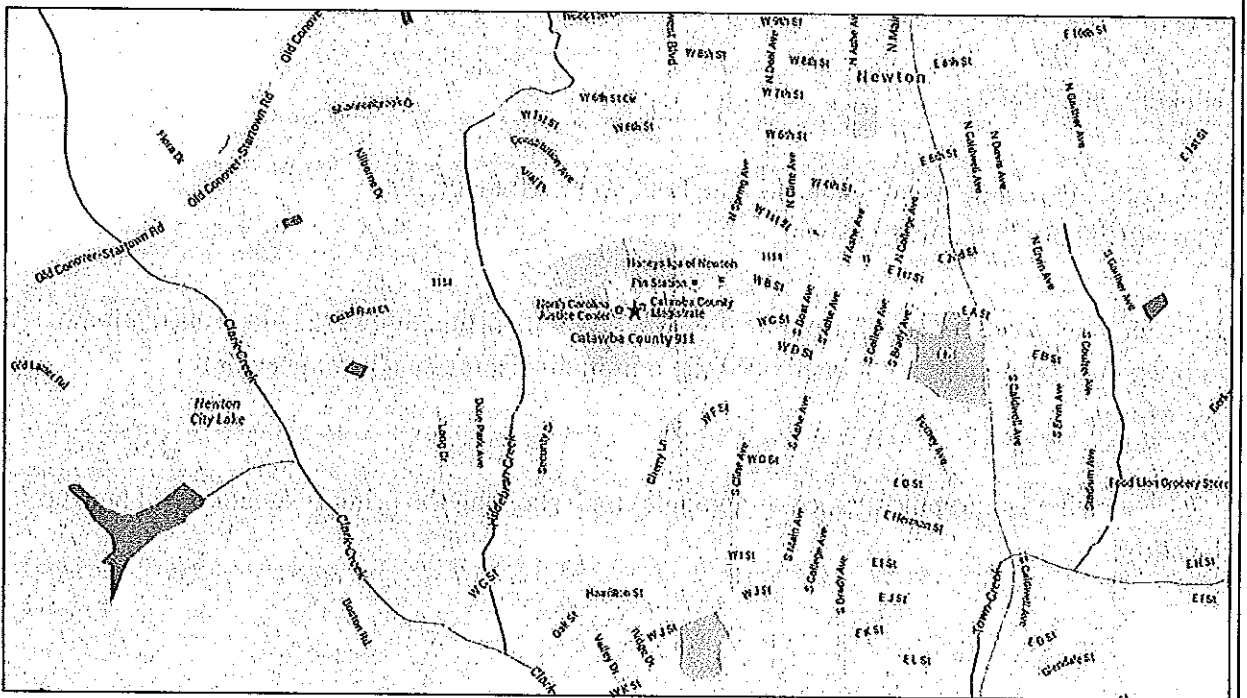
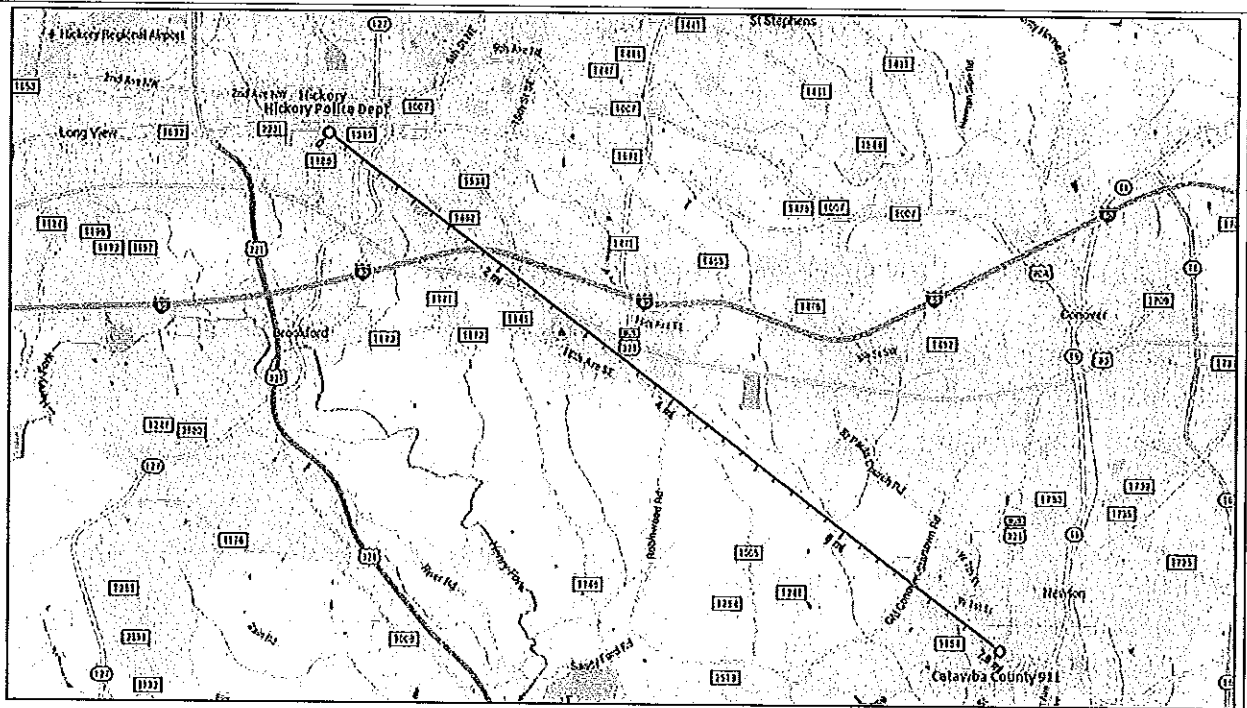
City of Hickory Police Department

How far is the Primary PSAP from the Backup PSAP in airline miles? (There is currently no defined distance requirement but a one mile minimum is a reasonable expectation.)

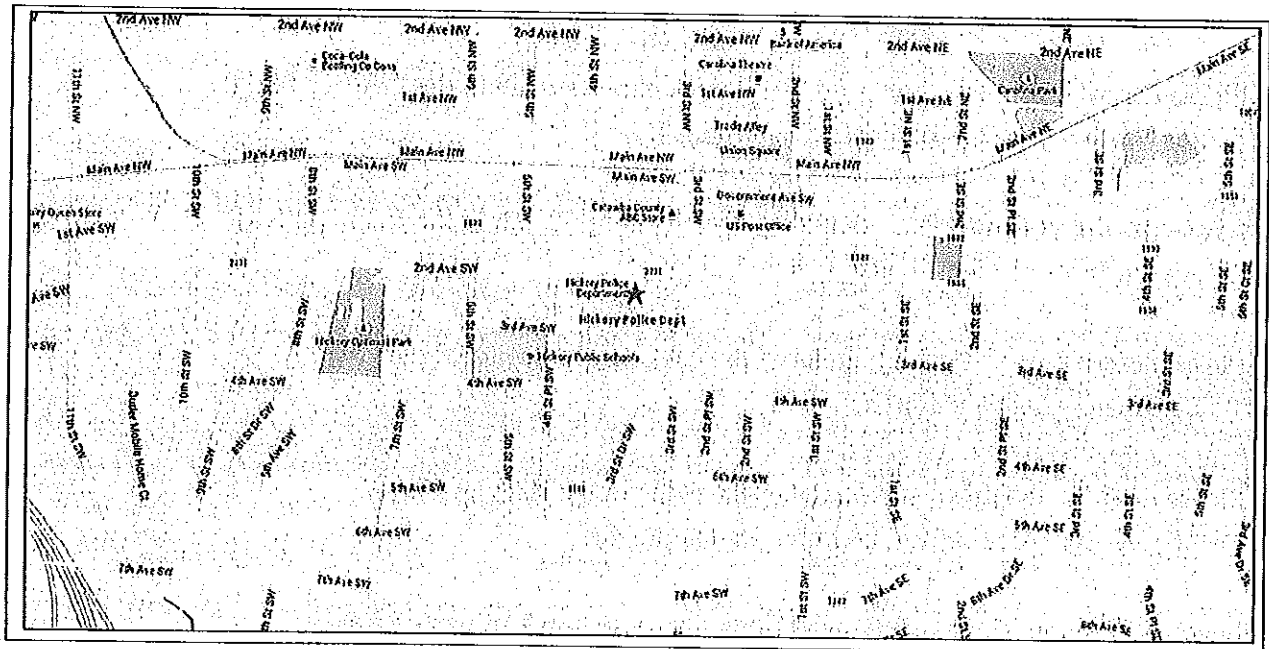
7.8 Miles

Please attach a geographical (such as a google) map showing the primary location and backup location.

# PSAP Backup Plan



## PSAP Backup Plan



### Positions/Workstations

How many telecommunicator positions are in the Primary PSAP?

Catawba County has six (6) dispatch positions

How many telecommunicator positions are normally manned in the Primary PSAP?

Catawba County normally has six telecommunicators on duty from 7 am until 3 am. From 3 am until 7 am, the center is normally manned with five (5) telecommunicators.

Can you staff for more positions to handle peak workloads in the Primary PSAP?

No, we only have six dispatch positions and all six are filled with normal staffing.

How many additional positions are used during peak workloads in the Primary PSAP? N/A

How many telecommunicator positions are in the Backup PSAP?

6 positions

How many telecommunicator positions will be manned in the Backup PSAP?

5 or 6 positions depending on the time of day and available staff.

Can you staff for more positions to handle peak workloads in the Backup PSAP?

Not at this time.

## PSAP Backup Plan

### Equipment

Please describe the make and model of the telephone switch in the Primary PSAP.  
Airbus Vesta 9-1-1 Geo-diverse system Side A.

Please describe the make and model of the telephone switch in the Backup PSAP.  
Airbus Vesta 9-1-1 Geo-diverse system Side B.

Please describe the make and model of the CAD in the Primary PSAP.  
Tritech VisionCAD version 3.6

Please describe the make and model of the CAD in the Backup PSAP.  
Tritech VisionCAD version 3.6 (after plan approval)

Please describe the make and model of the recorder in the Primary PSAP.  
Stancil Recorder version 3.4.13.3

Please describe the make and model of the recorder in the Backup PSAP.  
The backup center will not be connected to a recorder at the backup PSAP at this time.

### Radio Equipment

What equipment in the Backup PSAP will be used to dispatch 911 calls?  
6 position Motorola MIP 5000 with the ability to expand to 12 positions. The purchase of these radio dispatch consoles will be dependent upon funding sources such as grants or reconsideration of funds. If funding is not available, another method of notifying the first responders will be used as part of the plan.

How will the radio equipment in the Backup PSAP connect to the radio network?  
It is a standalone dispatch console system using RF control stations to communicate with the County's VHF network and also the State's VIPER network. As stated above, if funding is not available, another form of notifying the first responders will be used as part of the plan.

### Network

How many 911 trunks are currently in the Primary PSAP and who is the carrier?  
We have nine 911 sessions (trunks) provided by Intrado.

How many admin lines are currently in the Primary PSAP and who is the carrier?  
We have ten admin lines provided by AT&T.

## PSAP Backup Plan

How many 911 trunks will be in Backup PSAP and who is the carrier?

We will have nine 911 sessions (trunks) provided by Intrado.

How many admin lines will be in the Backup PSAP and who is the carrier?

As long as the network between side A and side B is functioning we will continue to have ten admin lines provided by AT&T. If the network is disrupted, we will revert to the admin lines at Hickory PD (currently 5 lines but will increase when they move to Side B). Hickory PD's admin lines are provided by Century Link.

What is the process to re-route 911 trunks from the Primary PSAP to the Backup PSAP?

Catawba County will call Intrado's Emergency Call Relay Center (ECRC): 1-877-214-3032. We will tell them we want to abandon our PSAP. They will validate who we are and then proceed with the request. Re-routing the 911 trunks will not be required if both Side A and the network connection between the two sides are still functional. We will still have full access to all of our 911 sessions (trunks) and admin lines.

How long will it take to re-route 911 trunks from the Primary PSAP to the Backup PSAP?

Once we are validated, it will take less than 10 minutes to re-route to Hickory PD.

What is the process to re-route admin trunks from the Primary PSAP to the Backup PSAP?

Catawba County will call AT&T at 1-800-247-2020 and have them re-route our admin lines to Hickory PD 828-328-5551

How long will it take to re-route admin trunks from the Primary PSAP to the Backup PSAP?

Once AT&T has been contacted it should take around 15 minutes to call forward our admin lines to Hickory PD. Re-routing the admin lines will not be required if both Side A and the network connection between the two sides are still functional. We will still have full access to all of our 911 sessions (trunks) and admin lines.

## PSAP Backup Plan

How will the Primary PSAP be network connected to the Backup PSAP?

The primary connection is a 100 megabyte Layer 2 fiber connection provided by Broadplex. The redundant connection is an existing 1 gigabit connection managed by Hickory City and Catawba County.

Who is the carrier?

Broadplex LLC is the carrier for the primary connection and the redundant connection is managed by Hickory City and Catawba County.

What is the bandwidth?

The primary connection is a 100 megabyte layer 2 connection and the redundant connection is a 1 gigabyte connection.

How will this network connection between the Primary PSAP to the Backup PSAP be used? For instance will it be used to keep the CAD data current at both locations? Will it be used to carry 911 calls from the B side of the switch at the backup location to the A side at the Primary location? Will other applications be running on this network connection? The network connection between the two locations will be used to carry the 911 calls between the A side and B side of the phone system. It will also be used to keep the Backup PSAP's CAD server data updated. There will not be any other applications running over either of the connections.

### Interim PSAP

Who will answer your 911 calls while you are relocating to the Backup PSAP?

The telecommunicators at Hickory PD will answer our 911 calls until we are able to relocate our staff to the backup PSAP.

How long will it take to relocate staff to the Backup PSAP and begin taking calls?

Once the decision has been made to relocate, it will take about 30 minutes to relocate and login to the system.

What is the process to re-route calls from the Primary PSAP to the Interim PSAP while relocating staff to the Backup PSAP?

## PSAP Backup Plan

Catawba County will call Intrado's Emergency Call Relay Center (ECRC): 1-877-214-3032. We will tell them we want to abandon our PSAP. They will validate who we are and then proceed with request.

What is the process to re-route calls from the Interim PSAP while relocating staff to the Backup PSAP?

There is no interim PSAP; Staff at Hickory PD will assist with calls until Catawba County staff arrives and begins taking the calls.

Please attach a signed Memorandums of Understanding (MOUs) and any other applicable agreements. Please insure that the signatories have the appropriate authority to commit their respective agencies. Once the plan has been approved Catawba County and Hickory PD will enter into the MOUs.

### Power

Describe the back-up power system at the Primary PSAP?

We currently have three layers of redundant backup power. The first level is a 1,825 KW generator provided and maintained by the city of Newton located on the Justice Center campus. The second level is a 325 KW generator provided and maintained by the county and is also located on the Justice Center campus. The third and final level is a Liebert NPower 40 kVA UPS that is maintained by Jantech Services Inc and is sized to provide a minimum of 8 hours of backup power.

What is the capacity of the generator and the UPS in the Primary PSAP?

The Primary generator maintained by the city of Newton is a 1,825 KW generator.

The secondary generator maintained by the county is a 325 KW generator.

The UPS maintained by Jantech Services is a 40 kVA UPS.

How much fuel is stockpiled for the generator at the Primary PSAP and how long will this provide uninterrupted operation?

The primary generator holds 3,000 gallons of fuel and will run in excess of 30 hours on a tank of fuel.

The secondary generator holds 1,000 gallons of fuel and will run in excess of 72 hours on a tank of fuel.

Describe the back-up power system at the Backup PSAP?

Hickory PD has a whole building generator and also a whole building UPS.

What is the capacity of the generator and the UPS in the Backup PSAP?

The generator is capable of powering the entire police department. The UPS is also capable of supporting the entire police department.



## PSAP Backup Plan

How much fuel is stockpiled for the generator at the Backup PSAP and how long will this provide uninterrupted operation? The generator is hooked to natural gas; as long as the infrastructure is in place the generator should continue to run.

How often will you test your Backup plan? The plan will be tested once a quarter. All shifts will work out of the backup center at least once a year.

How long will you take calls at the Backup PSAP when you exercise your plan? 4 hours each test.

### Backup Facility

Does your Backup facility provide for the needs of employees? Yes, this building is staffed on a normal basis by the City of Hickory employees.

How will sufficient food, water, sleeping, and hygiene needs for the staff for the projected duration the emergency is provided? County emergency management has plans and provisions in place to provide adequate food, water, sleeping and hygiene needs for the staff during any emergency event.

### Additional

Please provide a diagram of your back-up plan. Show the equipment to be supported in the Primary PSAP and the Backup PSAP, the network connections between the Primary PSAP and the Backup PSAP, the trunking to the Primary PSAP and the Backup PSAP, and any other relevant information. Diagram is included at the end of the plan.

# PSAP Backup Plan

## Financial Documentation

Non-Eligible Cost Product/Service		Eligible Cost Product/Service		Comments
	Cost	One-Time Cost	Cost	
MIP 5000 Dispatch Console: • Transmitters • Antennas • Combiners	\$250,000.00	MIP 5000 Dispatch Console: • Console Hardware • Console Software	\$250,000.00	
PC Workstations (6) \$1,000 per PC over the allowed \$1,000 per PC	\$6,000.00	PC Workstations (6)	\$6,000.00	Est. cost per workstation is \$2,000.00
Microsoft Office 2013 (6)	\$2,000.00	Office Chairs (6)	\$1,500.00	
UPS (for transmitters) 15	\$3,000.00	UPS (911/CAD/Console) 18	\$3,600.00	
Print to Email (6)	\$200.00	AirBus VESTA 9-1-1 (6)	\$120,000.00	
		ProQA (6)	\$21,000.00	
		EMD Card Set (6)	\$3,000.00	
		24" Monitors (24)	\$12,000.00	
		Console Furniture (6)	\$110,000.00	
		Server/Data Storage	\$200,000.00	
		<b>Recurring Costs Annual</b>	<b>Cost</b>	
DCI (12) Stand alone DCI and DCI/CAD interface	\$3,600.00	CAD/Mapping Maintenance	\$5,100.00	
Maintenance: • Radio Transmitters • Antennas • Combiners • \$52,500 for 5 years	\$10,500	911 Phone Maintenance • Wireless 24x7 Maintenance & Hardware Support • Airbus Software Support • Airbus Remote Monitoring	\$4,606.12 \$9,352.00 \$2,880.00	
		EMD Card Set Maintenance	\$294.00	
		ProQA Maintenance	\$3,150.00	

## PSAP Backup Plan

		<b>Recurring Costs Monthly</b>	<b>Cost</b>	

### The Plan

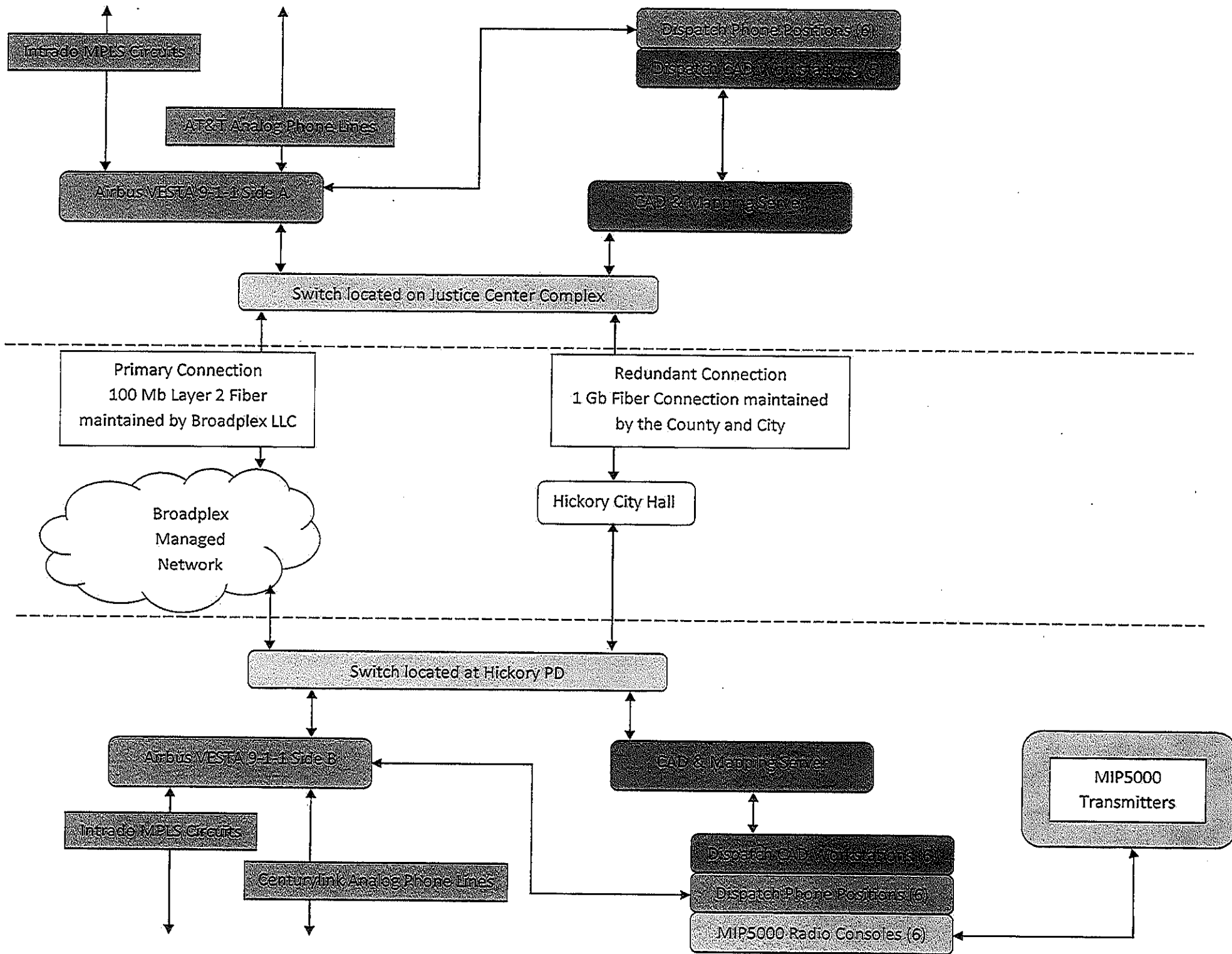
Please provide a narrative on how the proposed Backup plan will work.

Once a decision has been made to abandon/evacuate the Catawba County 911 center, staff will contact Hickory PD communications to make them aware and prepare them to handle our calls. At the same time or shortly after, Catawba County 911 staff will contact both Intrado and AT&T to start the process of re-routing both emergency and non-emergency phone calls. Re-routing of emergency and non-emergency lines will only be required if either Side A of the systems is not functional or the fiber connection between the two sides is not functional. During the travel time of the Catawba County 911 center staff, Hickory PD staff will begin signing onto the backup console equipment. Once Catawba County 911 center staff arrives at Hickory PD, they will resume the functions of the Primary PSAP through the duration of the incident.

This plan is dependent upon the future allocation of 911 funds (i.e., reconsideration funds and grant funds). Current 911 funds and local funds are not available for this project.

How often will you test your Backup plan? The plan will be tested once a quarter. All shifts will work out of the backup center at least once a year.

How long will you take calls at the Backup PSAP when you exercise your plan? 4 hours each test.



**Attachment – 2**

**Questions 6 and 30**

## Catawba County Backup Plan Implementation Timeline

Task	Day of Action	Task Duration	Total Implementation Timeline
Secure funding	August 1, 2016	1 day	August 1, 2016
Procurement process	August 1, 2016	90 days	November 28, 2016
CAD & Mapping server/data storage (delivery)	August 1, 2016	60 days	October 29, 2016
CAD & Mapping server/data storage (installation)	October 29, 2016	60 days	December 18, 2016
Console Furniture (manufacturing and delivery)	November 28, 2016	60 days	January 26, 2017
Motorola MIP5000 radio dispatch console equipment (manufacturing and delivery)	November 28, 2016	45 days	January 11, 2017
Airbus VESTA 9-1-1 phone positions (manufacturing and delivery)	December 18, 2016	45 days	January 31, 2017
CAD & Mapping server/data storage (testing)	December 28, 2016	15 days	January 11, 2017
Motorola MIP5000 back room radio equipment (installation)	January 11, 2017	15 days	January 26, 2017
CAD/Mapping workstations (setup and installation)	January 11, 2017	45 days	February 25, 2017
Console Furniture (installation)	January 26, 2017	5 days	January 31, 2017
Motorola MIP5000 dispatch console equipment (installation)	January 31, 2017	15 days	February 20, 2017
Airbus VESTA 9-1-1 phone positions (installation)	January 31, 2017	20 days	February 25, 2017
Airbus VESTA 9-1-1 phone equipment (testing)	February 20, 2017	15 days	March 7, 2017
Motorola MIP5000 dispatch console equipment (testing)	February 20, 2017	15 days	March 7, 2017
CAD/Mapping workstations (testing)	February 25, 2017	15 days	March 12, 2017
Tie up a loose ends	March 12, 2017	5 days	March 17, 2017
Catawba County backup plan go live day	March 17, 2017	1 day	March 17, 2017

**Attachment – 3**

**Question – 8**

United States Census Bureau Population Estimates

	01-Apr-10		Population Estimate (as of July 1)					
	Census	Estimates Base	2010	2011	2012	2013	2014	2015
North Carolina	9,535,483	9,535,692	9,558,979	9,651,025	9,747,021	9,845,432	9,940,387	10,042,802
Catawba County	154,358	154,356	154,303	154,143	154,499	154,734	154,618	155,056
Town of Brookford	382	382	382	380	379	379	376	375
Town of Catawba	603	613	613	612	615	616	615	618
City of Claremont	1,352	1,352	1,351	1,351	1,356	1,359	1,360	1,365
City of Conover	8,165	8,183	8,182	8,175	8,209	8,220	8,220	8,248
City of Hickory	40,010	40,065	40,060	40,041	40,121	40,164	40,234	40,374
Town of Long View	4,871	4,871	4,867	4,868	4,877	4,884	4,878	4,895
Town of Maiden	3,310	3,320	3,319	3,329	3,332	3,356	3,360	3,369
City of Newton	12,968	12,968	12,965	12,949	12,998	13,016	12,996	13,035





## 2016 NORTH CAROLINA DEVELOPMENT TIER DESIGNATIONS

Since 2007 North Carolina has used a three-level system for designating development tiers. The designations, which are mandated by state law, determine a variety of state funding opportunities to assist in economic development. This 2016 report documents the process for calculating tiers and explains reasons that specific counties will change tiers. A North Carolina tier map and tier calculations are included for reference.

### How Tier Rankings Are Calculated

The Development Tier Designation statute (§143B-437.08) provides specific guidelines for calculating annual tier rankings. This process assigns each county to a designation of Tier One (most distressed), Tier Two, or Tier Three (least distressed). Assuming no ties in rankings, the statute requires **40 Tier One, 40 Tier Two, and 20 Tier Three** counties each year. In the event of a tie for the final position as a Tier One or Tier Two county, both counties will be placed in the lower tier.

#### Tier Rankings use Four Factors

- **Average unemployment rate** for the most recent twelve months for which data are available (October 2014 – September 2015, NC Dept. of Commerce LAUS)
- **Median household income** for the most recent twelve months for which data are available (2013, U.S. Census SAIPE)
- **Percentage growth in population** for the most recent 36 months for which data are available (July 2011 – July 2014, NC Office of State Budget & Management)
- **Adjusted property tax base per capita** for the most recent taxable year (FY 2015-16, NC Dept. of Public Instruction)

Each county is ranked from 1 to 100 on each variable, making the highest possible *County Rank Sum* 400, and the lowest 4. After calculating the *County Rank Sum*, counties are then ranked from most distressed (1) to least distressed (100) in order to determine their *Economic Distress Rank*.

#### Tier Adjustments for Small and Impoverished Counties

The Development Tier Designation statute further specifies automatic qualifying criteria for Tier One and Tier Two status:

- Tier One Automatic Qualifiers
  - A county must be Tier 1 for at least two consecutive years
  - A county with less than 12,000 people
  - A county with a population less than 50,000 people **AND** a poverty rate of 19 percent or greater.
- Tier Two Automatic Qualifier
  - A county with a population less than 50,000 people

After taking these qualifiers into account, counties are ranked from 1 to 100 to determine *Adjusted County Rank*, which determines final tier designation. All components of this process are consistent with the methodology designated in the general statutes.

## County Tier Changes in 2016

Eight counties will change tiers in 2016: Caldwell, Guilford, Haywood, McDowell, Rockingham, Surry, Wilson, and Yancey Counties. This section provides the reasons for each of these changes.

### Counties Moving to a Less Distressed Tier Designation

**Guilford County (Tier 2 to Tier 3):** From 2007 to 2012, Guilford County held a Tier Three designation. It qualified as a Tier Two county in 2013, returned to Tier Three status in 2014, and was assigned to Tier Two status in 2015 (with an adjusted county rank of 80, making it the highest-ranking Tier Two county). For the 2016 rankings, Guilford County has an economic distress rank of 75. After taking into consideration legislatively required adjustments to the 2016 tiers for counties with small populations and high poverty rates, Guilford County had an adjusted county rank of 81 and was shifted out of Tier Two and into Tier Three.

**Rockingham County (Tier 1 to Tier 2):** From 2007 to 2015, Rockingham County held a Tier One designation. In 2016, Rockingham County had an economic distress rank of 25. After taking into consideration legislatively required adjustments to the 2016 tiers for counties with small populations and high poverty rates, Rockingham County had an adjusted county rank of 41, shifting it out of Tier One and into Tier Two. Rockingham County's population is above 50,000, disqualifying it from any tier adjustments.

**Surry County (Tier 1 to Tier 2):** From 2007 to 2012, Surry County held a Tier One designation, before moving to Tier Two status in 2013. In 2014 and 2015, Surry County returned to a Tier One designation. In 2016, Surry County has moved to a Tier Two designation. Surry County received a 44 in the 2016 economic distress rankings, a large improvement from its ranking of 28 in 2015. This improvement was due to positive population growth (as opposed to negative growth in the 2015 rankings) as well as a large improvement in the 12-month unemployment rate between the two periods, moving from 6.96 percent to 5.46 percent and ranking 75 out of 100 counties in this indicator. Surry County's population is above 50,000, disqualifying it from any tier adjustments.

**Wilson County (Tier 1 to Tier 2):** From 2007 to 2009, Wilson County held a Tier One designation, moved to Tier Two during 2010 through 2012, and returned to Tier One in 2013 through 2015. In 2016, Wilson County had an economic distress rank of 26. After taking into consideration legislatively required adjustments to the 2016 tiers for counties with small populations and/or high poverty rates, Wilson County had an adjusted county rank of 42, shifting it out of Tier One and into Tier Two. Wilson County experienced a gain in Median Household Income since the last tier designation, moving from 40 to 53 out of 100 counties in this indicator. The 12-month unemployment rate slightly improved but still remains the 7<sup>th</sup> highest county in this indicator. Wilson County's population is above 50,000, disqualifying it from any tier adjustments.

### Counties Moving to a More Distressed Tier Designation

**Caldwell County (Tier 2 to Tier 1):** From 2007 to 2014, Caldwell County held a Tier One designation and moved to Tier Two status in 2015. Caldwell County now ranks 20<sup>th</sup> in economic distress, and after taking into consideration legislatively required adjustments for counties with small populations and high poverty rates, had an adjusted county rank of 39 and was designated a Tier One county. Because of the legislative requirement, Caldwell County will automatically be designated a Tier One county in 2017 as well.

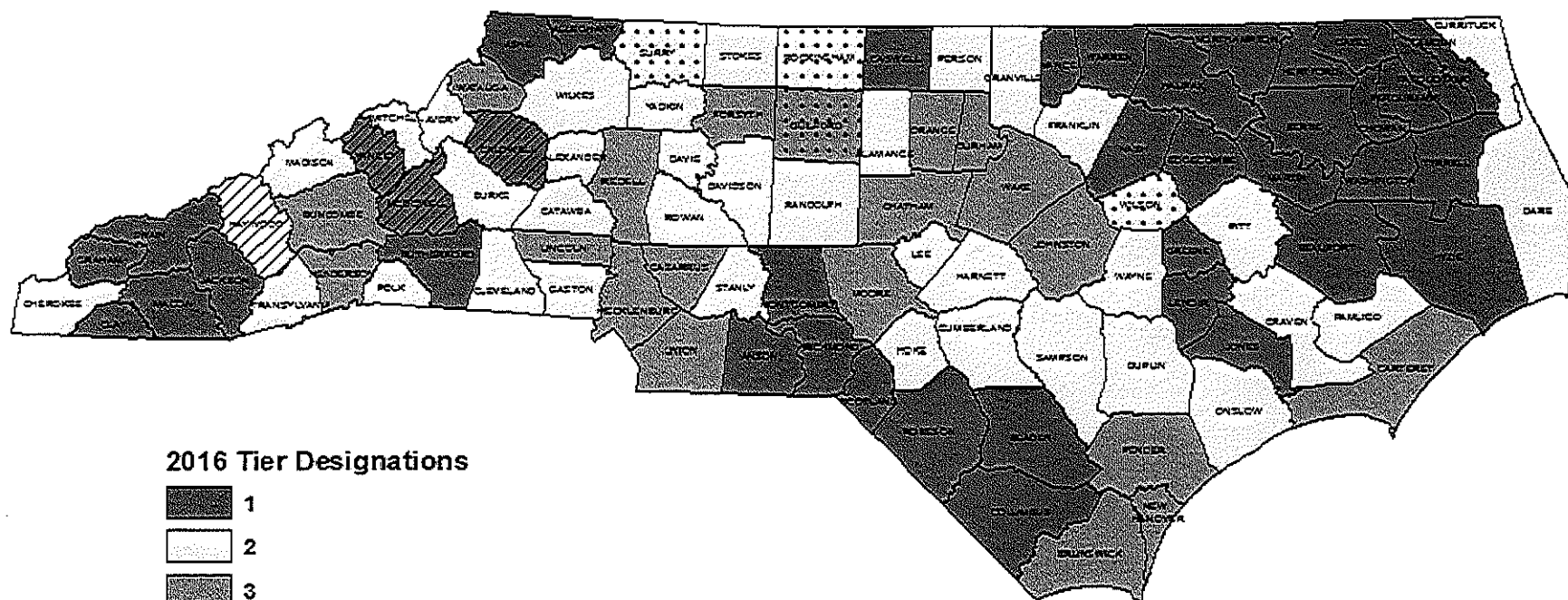
**Haywood County (Tier 3 to Tier 2):** From 2010 to 2012, Haywood County held a Tier Two designation. It qualified as a Tier Three county in 2013, returned to Tier Two status in 2014, and was a Tier Three county in 2015. In 2016, Haywood County has an economic distress rank of 74 out of 100, which was quite similar to its economic distress ranking of 80 in 2015. After taking into consideration legislatively required

adjustments made for counties with small populations and high poverty rates, Haywood County received an adjusted county rank of 80, making it the highest-ranking Tier Two county.

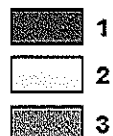
**McDowell County (Tier 2 to Tier 1):** In 2007 and 2008, McDowell County was a Tier One county, changing to a Tier Two county in 2009, returning to Tier One from 2010 to 2013, and then moving to Tier Two in 2013 through 2015. In 2016, McDowell County had an economic distress ranking of 44. However, due to having a population less than 50,000 and a poverty rate of 21.9 percent, it qualified for a tier adjustment to Tier One. Because of the legislative requirement, McDowell County will automatically be designated a Tier One county in 2017 as well.

**Yancey County (Tier 2 to Tier 1):** In 2007 and 2008, Yancey County was a Tier One County, changing to a Tier Two county from 2009 through 2011, returning to Tier One status in 2012 and 2013, and then to a Tier Two county in 2014 and 2015. In 2016, Yancey County had an economic distress ranking of 44, a decline from its ranking of 55 in 2015. However, due to having a population less than 50,000 and a poverty rate of 20.1 percent, it qualified for a tier adjustment to Tier One. Because of the legislative requirement, Yancey County will automatically be designated a Tier One county in 2017 as well.

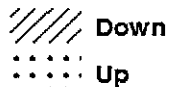
## 2016 County Tier Designations



## 2016 Tier Designations



### Tier Change from 2015



**NORTH  
CAROLINA**  
DEPARTMENT OF COMMERCE

# 2016 COUNTY DEVELOPMENT TIER RANKINGS (§ 143B-437.08)

NEW TIER	COUNTY	ECONOMIC INDICATORS								TIER ADJUSTMENTS								Adjusted County Rank	FINAL 2016 TIERS	
		Adjusted Property Tax Base Per Capita FY 2015-2016		Population Growth July 2011-July 2014		Median Household Income 2013		Unemployment 12 Mo Avg Oct 14-Sept 15		County Rank (Lowest = most distressed)	ECONOMIC DISTRESS RANK (#1 = most distressed)	Population Less Prison July 2014	Poverty Rate 5-year 2009-2013	2014 Tier	2015 Tier	Pop <50,000 then top 80; pop <50,000 & poverty >19% then top 40	Pop <12,000 then top 40			Must be Tier One for two consec. Years
		Value	Rank	% Change	Rank	Income	Rank	Rate	Rank											
↓	ALAMANCE	\$75,903	37	2.41%	73	\$43,001	64	5.17%	84	258	72	155,789	18.3%	2	2	72	72	72	79	2
	ALEXANDER	\$70,324	25	0.28%	48	\$46,064	77	4.95%	90	240	67	36,680	17.2%	2	2	41	41	41	53	2
	ALLEGHANY	\$147,485	88	0.26%	46	\$37,086	34	6.18%	41	209	58	11,099	19.8%	1	1	0	0	0	1	1
	ANSON	\$69,933	21	1.75%	66	\$33,443	10	6.40%	37	134	23	24,063	24.2%	1	1	0	0	0	1	1
	ASHE	\$148,836	90	0.06%	42	\$35,155	22	6.15%	42	196	49	27,448	21.1%	2	1	0	0	0	1	1
	AVERY	\$263,142	99	-0.49%	32	\$34,933	20	5.77%	56	207	54	16,142	18.0%	2	2	41	41	41	53	2
	BEAUFORT	\$119,186	75	-0.17%	39	\$39,043	41	6.55%	33	188	43	47,717	21.0%	1	1	0	0	0	1	1
	BERTIE	\$57,526	6	-3.37%	1	\$31,610	3	7.22%	24	34	2	19,371	23.4%	1	1	0	0	0	1	1
	BLADEN	\$76,073	38	0.28%	47	\$33,971	14	8.12%	12	111	16	35,113	25.8%	1	1	0	0	0	1	1
	BRUNSWICK	\$202,254	93	6.85%	99	\$47,799	81	6.93%	28	301	85	117,834	16.6%	3	3	85	85	85	86	3
	BUNCOMBE	\$117,232	73	3.15%	80	\$45,738	76	4.26%	100	329	91	250,468	17.1%	3	3	91	91	91	92	3
	BURKE	\$70,853	28	-0.85%	25	\$36,150	29	5.73%	62	144	28	88,465	20.0%	1	2	28	28	28	44	2
	CABARRUS	\$101,317	59	5.65%	94	\$55,046	94	5.10%	85	332	92	190,949	13.2%	3	3	92	92	92	93	3
	CALDWELL	\$73,463	34	-0.58%	30	\$34,811	19	6.32%	39	122	20	82,179	19.5%	1	2	20	20	20	39	1
	CAMDEN	\$101,348	60	1.79%	67	\$60,537	98	5.82%	53	278	77	10,251	6.0%	1	1	41	0	0	1	1
	CARTERET	\$207,719	95	2.57%	75	\$46,227	80	5.77%	55	305	86	69,050	14.4%	3	3	86	86	86	87	3
	CASWELL	\$68,659	19	-0.88%	23	\$37,122	35	6.25%	40	117	18	22,605	22.6%	1	1	0	0	0	1	1
	CATAWBA	\$103,472	63	0.64%	56	\$43,777	67	5.60%	68	254	71	155,590	15.2%	2	2	71	71	71	78	2
	CHATHAM	\$128,788	82	4.76%	91	\$56,981	95	4.57%	97	365	99	68,691	12.4%	3	3	99	99	99	99	3
	CHEROKEE	\$109,995	67	-0.28%	36	\$34,476	16	6.49%	34	153	30	27,451	17.9%	2	2	30	30	30	45	2
	CHOWAN	\$89,509	57	-0.89%	22	\$39,143	42	7.14%	26	147	29	14,636	29.0%	1	1	0	0	0	1	1
	CLAY	\$148,426	89	1.04%	61	\$37,078	33	5.93%	49	232	65	10,794	24.3%	1	1	0	0	0	1	1
	CLEVELAND	\$78,786	43	-0.31%	34	\$40,528	51	6.38%	38	166	32	97,920	19.3%	2	2	32	32	32	47	2
	COLUMBUS	\$63,003	11	-0.62%	29	\$35,026	21	7.48%	18	79	9	55,506	25.0%	1	1	9	9	9	36	1
	CRAVEN	\$87,933	50	-0.21%	37	\$45,022	73	6.12%	43	203	51	103,766	16.6%	2	2	51	51	51	68	2
	CUMBERLAND	\$67,073	16	-0.36%	33	\$44,038	69	7.18%	25	143	27	329,403	17.0%	2	2	27	27	27	43	2
	CURRITUCK	\$237,442	98	4.47%	89	\$57,577	96	5.75%	59	342	94	25,072	9.8%	2	2	41	41	41	53	2
	DARE	\$380,121	100	3.43%	81	\$52,083	91	7.38%	22	294	82	35,415	8.8%	2	2	41	41	41	53	2
	DAVIDSON	\$77,493	41	0.45%	52	\$40,424	48	5.49%	72	213	60	164,081	16.3%	2	2	60	60	60	73	2
	DAVIE	\$99,450	56	0.22%	45	\$49,708	86	4.94%	91	278	77	41,476	13.4%	2	2	41	41	41	53	2
	DUPLIN	\$66,449	14	1.79%	68	\$38,106	38	5.70%	64	184	40	60,126	26.3%	2	2	40	40	40	51	2
	DURHAM	\$102,872	62	6.40%	97	\$52,331	92	4.88%	93	344	95	289,173	18.5%	3	3	95	95	95	95	3
EDGECOMBE	\$55,512	4	-0.67%	28	\$33,080	9	9.61%	3	44	5	55,141	25.2%	1	1	5	5	5	34	1	
FORSYTH	\$88,786	51	2.90%	79	\$46,163	79	5.39%	77	286	80	364,005	18.6%	3	3	80	80	80	83	3	
FRANKLIN	\$69,211	20	2.76%	78	\$39,312	43	5.67%	66	207	54	62,753	16.1%	2	2	54	54	54	70	2	
GASTON	\$68,652	18	1.66%	65	\$42,461	61	5.80%	54	198	50	210,499	17.9%	2	2	50	50	50	67	2	
GATES	\$70,076	22	-2.15%	5	\$48,194	83	5.52%	71	181	37	11,912	19.6%	1	1	0	0	0	1	1	
GRAHAM	\$141,220	87	-1.04%	16	\$33,553	11	12.57%	1	115	17	8,829	21.1%	1	1	0	0	0	1	1	
GRANVILLE	\$70,486	26	0.37%	50	\$48,680	85	5.01%	89	250	70	55,224	15.4%	2	2	70	70	70	77	2	
GREENE	\$54,018	3	-2.00%	6	\$39,481	45	5.54%	70	124	21	19,115	23.3%	1	1	0	0	0	1	1	
↑	GUILFORD	\$90,223	53	3.59%	83	\$46,093	78	5.76%	57	271	75	512,273	18.1%	3	2	75	75	75	81	3
↓	HALIFAX	\$70,616	27	-2.22%	4	\$32,597	6	8.82%	6	43	4	52,204	27.4%	1	1	4	4	4	33	1
	HARNETT	\$62,539	8	6.23%	96	\$45,257	75	6.70%	31	210	59	124,760	17.2%	2	2	59	59	59	72	2
	HAYWOOD	\$120,246	76	0.95%	59	\$39,320	44	5.07%	86	265	74	59,913	16.6%	2	3	74	74	74	80	2
	HENDERSON	\$111,005	68	2.64%	76	\$44,561	71	4.58%	96	311	88	110,897	14.1%	3	3	88	88	88	89	3
	HERTFORD	\$62,889	10	-0.03%	40	\$33,616	12	6.84%	29	91	12	23,143	26.0%	1	1	0	0	0	1	1
	HOKE	\$61,585	7	3.96%	86	\$43,987	68	7.73%	16	177	36	50,453	22.9%	1	2	36	36	36	49	2
	HYDE	\$203,577	94	-0.18%	38	\$36,681	31	8.71%	7	170	34	5,077	25.6%	1	1	0	0	0	1	1
	IREDELL	\$120,364	77	3.68%	84	\$49,983	87	5.37%	78	326	90	167,157	13.8%	3	3	90	90	90	91	3
JACKSON	\$219,755	96	1.32%	63	\$40,511	50	5.89%	51	260	73	41,039	21.8%	1	1	0	0	0	1	1	

NEW TIER	COUNTY	ECONOMIC INDICATORS										TIER ADJUSTMENTS								Adjusted County Rank	FINAL 2016 TIERS
		Adjusted Property Tax Base Per Capita FY 2015-2016		Population Growth July 2011-July 2014		Median Household Income 2013		Unemployment 12 Mth Avg Oct 14-Sept 15		County Rank Sum (Lowest = most distressed)	ECONOMIC DISTRESS RANK (#1 = most distressed)	Population Less Prison July 2014	Poverty Rate 5-year 2009-2013	2014 Tier	2015 Tier	Pop <50,000 then top 30; pop <50,000 & poverty >15% then top 40	Pop <12,000 then top 40	Must be Tier One for two consec. Years			
		Value	Rank	% Change	Rank	Income	Rank	Rate	Rank												
↓	JOHNSTON	\$76,462	39	4.48%	90	\$50,904	90	5.04%	88	307	87	179,692	17.2%	3	3	87	87	87	3		
	JONES	\$80,183	46	-0.89%	21	\$39,602	46	5.73%	61	174	35	10,468	16.7%	1	1	35	0	0	1		
	LEE	\$86,323	49	1.87%	70	\$48,061	82	7.56%	17	218	62	58,905	18.9%	2	2	62	62	62	2		
	LENOIR	\$66,824	15	-0.85%	24	\$34,127	15	6.46%	35	89	11	58,795	23.7%	1	1	11	11	11	1		
	LINCOLN	\$101,435	61	1.83%	69	\$50,537	89	5.29%	80	299	84	79,970	15.6%	3	3	84	84	84	3		
	MACON	\$223,653	97	0.65%	57	\$37,219	36	6.10%	44	234	66	34,428	21.3%	2	1	0	0	0	1		
	MADISON	\$101,015	58	2.07%	72	\$37,479	37	5.41%	76	243	69	21,584	17.3%	2	2	41	41	41	2		
	MARTIN	\$85,110	48	-1.80%	7	\$34,761	18	7.42%	21	94	13	23,714	23.2%	1	1	0	0	0	1		
	MCDOWELL	\$79,876	45	0.19%	43	\$36,840	32	5.57%	69	189	44	44,554	21.9%	2	2	0	0	0	1		
	MECKLENBURG	\$115,517	72	7.80%	100	\$54,657	93	5.31%	79	344	95	1,013,199	15.4%	3	3	95	95	95	3		
↑	MITCHELL	\$114,820	71	2.43%	74	\$38,303	39	6.77%	30	214	61	15,825	18.3%	1	2	41	41	41	2		
	MONTGOMERY	\$105,913	65	-0.58%	31	\$35,613	25	5.69%	65	186	42	27,179	25.6%	1	1	0	0	0	1		
	MOORE	\$128,111	81	4.19%	87	\$50,169	88	5.61%	67	323	89	93,078	15.6%	3	3	89	89	89	3		
	NASH	\$75,634	36	-0.95%	17	\$41,575	59	7.31%	23	135	24	93,876	17.0%	2	1	24	24	0	1		
	NEW HANOVER	\$136,098	85	5.18%	93	\$48,651	84	5.24%	83	345	97	216,564	16.9%	3	3	97	97	97	3		
	NORTHAMPTON	\$94,361	54	-2.94%	2	\$31,732	4	7.46%	19	79	9	20,764	26.3%	1	1	0	0	0	1		
	ONSLow	\$70,200	23	3.52%	82	\$45,213	74	5.71%	63	242	68	193,204	15.2%	2	2	68	68	68	2		
	ORANGE	\$112,415	69	3.81%	85	\$59,472	97	4.41%	99	350	98	139,791	17.8%	3	3	98	98	98	3		
	PAMLICO	\$130,915	83	-1.31%	14	\$43,517	65	6.00%	46	208	57	12,573	13.8%	2	2	41	41	41	2		
	PASQUOTANK	\$79,575	44	-1.34%	13	\$40,094	47	7.44%	20	124	21	38,874	18.4%	1	1	21	21	21	1		
↑	PENDER	\$113,749	70	5.93%	95	\$44,949	72	5.98%	47	284	79	55,773	19.3%	3	3	79	79	79	3		
	PERQUIMANS	\$127,999	80	0.65%	58	\$42,504	62	7.13%	27	227	63	13,638	20.2%	1	1	0	0	0	1		
	PERSON	\$107,877	66	-0.84%	26	\$42,091	60	6.58%	32	184	40	39,265	18.0%	2	2	40	40	40	2		
	PITT	\$65,731	13	2.70%	77	\$40,940	55	5.97%	48	193	48	174,424	24.3%	2	2	48	48	48	2		
	POLK	\$134,710	84	0.98%	60	\$43,665	66	5.05%	87	297	83	20,740	16.7%	2	2	41	41	41	2		
	RANDOLPH	\$70,996	29	0.43%	51	\$40,896	54	5.48%	73	207	54	142,858	17.8%	2	2	54	54	54	2		
	RICHMOND	\$68,023	17	-1.79%	8	\$32,825	8	7.96%	13	46	6	44,880	25.9%	1	1	0	0	0	1		
	ROBESON	\$45,880	1	-0.30%	35	\$30,248	1	8.48%	10	47	7	132,783	31.7%	1	1	7	7	7	35		
	ROCKINGHAM	\$72,795	32	-0.90%	19	\$40,446	49	6.43%	36	136	25	92,543	17.9%	1	1	25	25	25	1		
	ROWAN	\$83,411	47	0.33%	49	\$41,475	57	5.86%	52	205	53	137,725	18.8%	2	2	53	53	53	2		
↑	RUTHERFORD	\$88,859	52	-0.92%	18	\$35,544	23	7.78%	15	108	15	67,378	21.5%	1	1	15	15	15	1		
	SAMPSON	\$63,362	12	1.18%	62	\$35,890	27	5.76%	58	159	31	63,941	22.8%	2	2	31	31	31	2		
	SCOTLAND	\$57,352	5	-1.40%	12	\$32,314	5	10.69%	2	24	1	34,373	32.3%	1	1	0	0	0	1		
	STANLY	\$72,964	33	0.48%	53	\$42,801	63	5.29%	81	230	64	60,205	16.1%	2	2	64	64	64	2		
	STOKES	\$77,830	42	-1.45%	10	\$44,552	70	5.27%	82	204	52	46,786	15.8%	2	2	41	41	41	2		
	SURRY	\$72,167	30	0.52%	54	\$36,221	30	5.46%	75	189	44	73,834	19.9%	1	1	44	44	44	2		
	SWAIN	\$105,701	64	4.32%	88	\$34,552	17	7.86%	14	183	38	14,831	27.2%	1	1	0	0	0	1		
	TRANSYLVANIA	\$179,275	92	0.55%	55	\$40,578	52	5.47%	74	273	76	33,428	14.3%	2	2	41	41	41	2		
	TYRRELL	\$126,130	79	-1.75%	9	\$32,642	7	8.86%	5	100	14	3,645	20.8%	1	1	0	0	0	1		
	UNION	\$96,687	55	5.17%	92	\$63,912	99	4.71%	95	341	93	215,933	9.4%	3	3	93	93	93	3		
↑	VANCE	\$51,735	2	-0.89%	20	\$35,565	24	8.68%	8	54	8	45,077	28.0%	1	1	0	0	0	1		
	WAKE	\$118,210	74	6.62%	98	\$65,433	100	4.53%	98	370	100	982,473	11.0%	3	3	100	100	100	3		
	WARREN	\$124,317	78	-1.26%	15	\$33,767	13	8.38%	11	117	18	19,743	25.2%	1	1	0	0	0	1		
	WASHINGTON	\$70,315	24	-2.72%	3	\$31,596	2	8.56%	9	38	3	12,679	23.7%	1	1	0	0	0	1		
	WATAUGA	\$166,787	91	1.59%	64	\$38,380	40	4.88%	92	287	81	52,923	31.3%	3	3	81	81	81	3		
	WAYNE	\$62,846	9	2.01%	71	\$41,526	58	6.02%	45	183	38	124,926	22.1%	2	2	38	38	38	2		
	WILKES	\$75,205	35	0.19%	44	\$35,895	28	5.73%	60	167	33	69,642	22.7%	2	2	33	33	33	2		
	WILSON	\$77,242	40	0.04%	41	\$40,772	53	9.03%	4	138	26	81,410	23.2%	1	1	26	26	26	2		
	YADKIN	\$72,184	31	-1.44%	11	\$40,998	56	4.85%	94	192	47	37,842	18.5%	2	2	41	41	41	2		
	YANCEY	\$141,101	86	-0.80%	27	\$35,866	26	5.90%	50	189	44	17,907	20.1%	2	2	0	0	0	1		

# 2015 COUNTY DEVELOPMENT TIER RANKINGS (§ 143B-437.08)

		ECONOMIC INDICATORS										TIER ADJUSTMENTS									
NEW TIER	COUNTY	Adjusted Property Tax Base Per Capita FY 2014-2015		Population Growth July 2010-July 2013		Median Household Income 2012		Unemployment 12 Mth Avg Oct 13-Sept 14		County Rank Sum (Lowest = most distressed)	ECONOMIC DISTRESS RANK (#1 = most distressed)	Population Less Prison July 2013	Poverty Rate 5-year 2008-2012	2013 Tier	2014 Tier	Pop <50,000 then top 20; pop <50,000 & poverty >15% then top 40	Pop <12,000 then top 40	Must be Tier One for two consec. Years	Adjusted County Rank	FINAL 2015 TIERS	
		Value	Rank	% Change	Rank	Income	Rank	Rate	Rank												
↓	ALAMANCE	\$77,347	39	1.40%	60	\$41,394	58	6.53%	71	228	66	153,595	17.3%	2	2	66	66	66	76	2	
	ALEXANDER	\$73,159	33	0.17%	40	\$39,655	51	6.21%	79	203	50	36,331	18.3%	2	2	41	41	41	49	2	
	ALLEGHANY	\$160,277	90	-0.86%	19	\$34,046	18	7.51%	39	166	32	11,052	20.9%	1	1	0	0	0	1	1	
	ANSON	\$69,221	23	-1.58%	9	\$32,339	11	7.94%	24	67	10	24,298	22.2%	1	1	0	0	0	1	1	
	ASHE	\$149,224	88	0.65%	49	\$34,080	19	8.10%	21	177	38	27,434	19.3%	2	2	0	0	0	1	1	
	AVERY	\$279,492	98	0.84%	56	\$34,727	22	7.41%	41	217	59	16,128	17.8%	2	2	41	41	41	49	2	
	BEAUFORT	\$119,004	73	0.03%	34	\$38,256	44	8.03%	23	174	37	47,777	20.6%	2	1	0	0	0	1	1	
	BERTIE	\$63,566	12	-3.10%	2	\$30,414	2	9.37%	9	25	1	19,651	24.3%	1	1	0	0	0	1	1	
	BLADEN	\$77,970	42	0.16%	39	\$32,766	13	9.77%	5	99	14	35,074	24.4%	1	1	0	0	0	1	1	
	BRUNSWICK	\$210,131	95	7.08%	99	\$48,624	84	7.37%	43	321	88	115,716	15.2%	3	3	88	88	88	89	3	
↑	BUNCOMBE	\$123,617	78	4.19%	86	\$43,146	69	4.98%	97	330	90	248,058	16.8%	3	3	90	90	90	91	3	
	BURKE	\$72,269	29	-0.95%	16	\$38,581	47	7.21%	51	143	27	88,393	18.7%	1	1	27	27	27	43	2	
↑	CABARRUS	\$102,047	59	4.55%	89	\$55,531	98	6.02%	85	331	91	186,347	12.1%	3	3	91	91	91	92	3	
	CALDWELL	\$71,138	27	-0.56%	27	\$35,127	24	7.36%	45	123	22	82,251	19.0%	1	1	22	22	22	41	2	
	CAMDEN	\$104,749	63	1.91%	65	\$53,563	94	6.73%	68	290	81	10,174	7.4%	1	1	41	0	0	1	1	
	CARTERET	\$209,308	93	3.78%	83	\$48,930	86	6.21%	80	342	96	68,939	14.1%	3	3	96	96	96	97	3	
	CASWELL	\$66,848	19	0.80%	55	\$39,615	50	7.04%	55	179	39	22,744	20.7%	1	1	0	0	0	1	1	
	CATAWBA	\$100,835	58	0.73%	51	\$42,080	62	7.26%	50	221	61	155,174	15.1%	2	2	61	61	61	72	2	
	CHATHAM	\$130,081	81	6.08%	94	\$55,371	96	4.59%	100	371	100	67,597	11.1%	3	3	100	100	100	100	3	
	CHEROKEE	\$110,404	68	0.12%	37	\$31,370	7	8.78%	16	128	23	27,471	15.1%	1	2	23	23	23	42	2	
	CHOWAN	\$104,625	62	0.39%	44	\$37,458	41	8.19%	20	167	33	14,815	24.7%	1	1	0	0	0	1	1	
	CLAY	\$157,704	39	2.14%	68	\$36,871	36	6.52%	72	265	74	10,794	22.6%	1	1	0	0	0	1	1	
	CLEVELAND	\$76,231	36	-0.61%	25	\$38,265	45	7.17%	52	158	30	97,429	19.7%	2	2	30	30	30	45	2	
	COLUMBUS	\$59,320	6	-0.17%	32	\$33,765	17	8.87%	13	68	11	55,672	24.5%	1	1	11	11	11	35	1	
	CRAVEN	\$91,184	53	0.30%	42	\$47,087	82	7.72%	32	209	53	103,691	16.3%	2	2	53	53	53	68	2	
	CUMBERLAND	\$66,017	17	1.56%	62	\$45,110	79	7.82%	29	187	42	332,553	16.8%	2	2	42	42	42	63	2	
	CURRITUCK	\$293,712	99	3.63%	80	\$54,822	95	5.42%	94	368	99	24,506	9.9%	2	2	41	41	41	49	2	
	DARE	\$420,851	100	3.73%	81	\$51,900	92	7.81%	30	303	85	35,273	10.4%	2	2	41	41	41	49	2	
	DAVIDSON	\$77,946	41	0.55%	48	\$43,824	73	6.92%	60	222	62	163,400	15.2%	2	2	62	62	62	73	2	
	DAVIE	\$99,097	56	0.47%	45	\$49,984	89	6.05%	84	274	76	41,507	13.0%	2	2	41	41	41	49	2	
	DUPLIN	\$66,508	18	2.76%	73	\$36,075	31	7.35%	46	168	34	59,967	24.4%	2	2	34	34	34	47	2	
	DURHAM	\$104,194	61	5.60%	93	\$50,889	90	5.42%	93	337	94	283,210	18.0%	3	3	94	94	94	95	3	
	EDGECOMBE	\$56,273	4	-1.25%	14	\$32,002	10	11.51%	3	31	3	55,352	24.0%	1	1	3	3	3	32	1	
	FORSYTH	\$91,962	54	2.59%	72	\$43,049	68	6.36%	77	271	75	360,226	17.6%	3	3	75	75	75	81	3	
	FRANKLIN	\$67,373	20	3.12%	76	\$42,346	64	6.16%	82	242	69	62,222	15.4%	3	2	69	69	69	78	2	
	GASTON	\$68,350	21	1.66%	63	\$41,614	59	6.94%	59	202	47	209,335	17.0%	2	2	47	47	47	65	2	
	GATES	\$72,544	30	-2.37%	7	\$44,273	76	6.75%	67	180	40	11,880	18.2%	1	1	40	0	0	1	1	
	GRAHAM	\$141,385	86	-0.18%	31	\$32,883	14	11.97%	2	133	25	8,854	17.3%	1	1	25	0	0	1	1	
	GRANVILLE	\$72,744	31	1.15%	58	\$46,303	81	6.98%	57	227	65	54,973	14.3%	2	2	65	65	65	75	2	
↓	GREENE	\$55,373	3	-0.68%	22	\$35,050	23	7.04%	54	102	15	19,102	22.1%	2	1	0	0	0	1	1	
	GUILFORD	\$90,358	51	3.62%	79	\$43,299	70	7.05%	53	253	71	507,419	16.9%	2	3	71	71	71	80	2	
	HALIFAX	\$70,556	24	-1.52%	10	\$31,253	6	10.12%	4	44	5	52,727	25.3%	1	1	5	5	5	34	1	
	HARNETT	\$61,437	8	6.59%	98	\$44,998	78	7.65%	33	217	59	122,333	16.4%	2	2	59	59	59	71	2	
↑	HAYWOOD	\$121,541	75	1.41%	61	\$40,022	53	5.57%	90	279	80	59,674	14.2%	3	2	80	80	80	84	3	
	HENDERSON	\$114,724	71	2.18%	70	\$45,168	80	5.01%	96	317	87	109,287	13.5%	3	3	87	87	87	88	3	
	HERTFORD	\$61,565	9	-0.74%	20	\$31,861	9	7.91%	28	66	9	23,188	25.0%	1	1	0	0	0	1	1	
↑	HOKE	\$59,684	7	6.41%	97	\$44,717	77	7.28%	49	230	67	50,183	21.9%	1	1	67	67	67	77	2	
	HYDE	\$210,015	94	1.96%	66	\$35,301	27	7.93%	26	213	56	5,152	23.3%	1	1	0	0	0	1	1	
	IREDELL	\$122,933	77	3.26%	77	\$49,666	87	6.47%	73	314	86	164,974	13.5%	3	3	86	86	86	87	3	
	JACKSON	\$240,463	97	1.15%	57	\$37,049	38	5.88%	86	278	79	40,810	19.5%	1	1	0	0	0	1	1	



# 2015 COUNTY DEVELOPMENT TIER RANKINGS (\$ 1438-437.08) continued

NEW TIER	COUNTY	ECONOMIC INDICATORS										TIER ADJUSTMENTS										Adjusted County Rank	FINAL 2015 TIERS
		Adjusted Property Tax Base Per Capita FY 2014-2015		Population Growth July 2010-July 2013		Median Household Income 2012		Unemployment 12 Mth Avg Oct 13-Sept 14		County Rank Sum (Lowest = most distressed)	ECONOMIC DISTRESS RANK (#1 = most distressed)	Population Less Prison July 2013	Poverty Rate 5-year 2008-2012	2013 Tier	2014 Tier	Pop <50,000 then top 80 pop <50,000 & poverty >15% then top 40	Pop <12,000 then top 40	Must be Tier One for two consec. Years					
		Value	Rank	% Change	Rank	Income	Rank	Rate	Rank														
↓	JOHNSTON	\$74,563	34	4.54%	88	\$48,773	85	5.82%	88	295	82	176,675	16.1%	3	3	82	82	82	85	3			
	JONES	\$79,353	45	4.69%	91	\$35,159	25	7.54%	36	197	45	10,554	17.0%	1	1	41	0	0	1	1			
	LEE	\$83,668	48	2.54%	71	\$43,424	72	8.55%	18	209	53	59,048	17.4%	2	2	53	53	53	68	2			
	LENOIR	\$65,305	14	-0.60%	26	\$35,634	29	7.54%	37	106	16	58,981	24.9%	1	1	16	16	16	36	1			
	LINCOLN	\$102,837	60	1.67%	64	\$47,799	83	6.57%	70	277	78	79,519	14.9%	2	3	78	78	78	83	3			
	MACON	\$236,448	96	0.66%	50	\$36,438	34	7.02%	56	236	68	34,151	19.6%	2	2	0	0	0	1	1			
	MADISON	\$97,918	55	2.88%	74	\$37,644	43	5.46%	91	263	73	21,372	17.4%	2	2	41	41	41	49	2			
	MARTIN	\$79,323	44	-2.91%	4	\$33,159	16	7.77%	31	95	13	23,750	24.9%	1	1	0	0	0	1	1			
	MCDOWELL	\$79,077	43	0.38%	43	\$36,584	35	7.30%	48	169	35	44,457	19.0%	1	2	35	35	35	48	2			
	MECKLENBURG	\$117,848	72	7.44%	100	\$55,392	97	6.79%	62	331	91	991,867	14.5%	3	3	91	91	91	92	3			
↑	MITCHELL	\$121,631	76	-0.87%	18	\$36,210	32	8.07%	22	148	28	15,407	18.7%	1	1	28	28	28	44	2			
	MONTGOMERY	\$110,345	67	-0.26%	29	\$35,272	26	7.32%	47	169	35	27,138	26.3%	1	1	0	0	0	1	1			
	MOORE	\$132,239	82	3.87%	84	\$49,670	88	6.40%	75	329	89	91,937	14.5%	3	3	89	89	89	90	3			
	NASH	\$75,567	35	-0.89%	17	\$40,937	56	8.87%	14	122	21	94,094	17.6%	2	2	21	21	21	40	1			
	NEW HANOVER	\$139,384	84	5.18%	92	\$50,890	91	6.40%	74	341	95	213,417	16.0%	3	3	95	95	95	96	3			
	NORTHAMPTON	\$90,362	52	-2.99%	3	\$31,217	5	8.36%	19	79	12	20,904	26.5%	1	1	0	0	0	1	1			
	ONslow	\$68,802	22	3.78%	82	\$44,263	75	6.76%	66	245	70	193,925	13.9%	2	2	70	70	70	79	2			
	ORANGE	\$113,137	69	4.02%	85	\$53,026	93	4.66%	99	346	97	139,481	17.4%	3	3	97	97	97	98	3			
	PAMLICO	\$125,291	79	-0.14%	33	\$41,004	57	7.63%	35	204	51	12,515	13.8%	2	2	41	41	41	49	2			
	PASQUOTANK	\$85,144	50	-2.89%	5	\$43,935	74	9.09%	11	140	26	38,651	18.0%	2	1	26	26	0	1	1			
↓	PENDER	\$114,592	70	6.16%	95	\$43,318	71	7.50%	40	276	77	54,813	18.0%	3	3	77	77	77	82	3			
	PERQUIMANS	\$108,948	66	2.14%	69	\$42,494	65	7.93%	25	225	64	13,771	18.6%	2	1	41	41	0	1	1			
	PERSON	\$105,449	65	-0.63%	24	\$42,546	66	6.83%	61	216	58	39,192	16.4%	2	2	41	41	41	49	2			
	PITT	\$64,084	13	3.02%	75	\$39,343	49	6.76%	65	202	47	173,879	24.0%	2	2	47	47	47	65	2			
	POLK	\$141,120	85	0.79%	54	\$41,719	60	4.81%	98	297	83	20,603	15.7%	2	2	41	41	41	49	2			
	RANDOLPH	\$71,831	28	0.49%	47	\$41,815	61	6.30%	78	214	57	142,341	17.1%	2	2	57	57	57	70	2			
	RICHMOND	\$65,562	15	-1.06%	15	\$30,726	3	8.84%	15	48	6	45,436	24.8%	1	1	0	0	0	1	1			
	ROBESON	\$42,821	1	-0.25%	30	\$29,965	1	9.66%	6	38	4	133,020	31.9%	1	1	4	4	4	33	1			
	ROCKINGHAM	\$72,818	32	-1.43%	11	\$37,577	42	7.63%	34	119	19	92,254	17.2%	1	1	19	19	19	38	1			
	ROWAN	\$84,669	49	0.23%	41	\$40,400	54	6.79%	63	207	52	137,677	18.5%	2	2	52	52	52	67	2			
	RUTHERFORD	\$81,422	47	0.05%	35	\$34,193	20	8.99%	12	114	18	67,575	20.3%	1	1	18	18	18	37	1			
	SAMPSON	\$63,447	11	1.38%	59	\$37,420	39	6.39%	76	185	41	63,858	21.3%	2	2	41	41	41	49	2			
	SCOTLAND	\$56,442	5	-1.27%	13	\$31,704	8	12.58%	1	27	2	34,702	30.6%	1	1	0	0	0	1	1			
	STANLY	\$76,724	37	0.13%	38	\$42,816	67	6.19%	81	223	63	59,762	14.9%	2	2	63	63	63	74	2			
	STOKES	\$77,798	40	-1.31%	12	\$42,272	63	5.88%	87	202	47	46,731	17.4%	2	2	41	41	41	49	2			
	SURRY	\$70,897	25	-0.46%	28	\$36,934	37	6.96%	58	148	28	73,344	18.3%	2	1	28	28	0	1	1			
	SWAIN	\$105,213	64	4.24%	87	\$36,280	33	8.76%	17	201	46	14,590	22.5%	1	1	0	0	0	1	1			
	TRANSYLVANIA	\$181,567	92	0.48%	46	\$40,642	55	6.72%	69	262	72	33,220	14.2%	2	2	41	41	41	49	2			
	TYRRELL	\$133,089	83	-3.49%	1	\$30,728	4	7.36%	44	132	24	3,653	21.6%	1	1	0	0	0	1	1			
	UNION	\$99,361	57	4.64%	90	\$61,260	99	5.79%	89	335	93	211,539	9.7%	3	3	93	93	93	94	3			
	VANCE	\$53,926	2	-0.67%	23	\$34,371	21	9.47%	8	54	7	45,056	28.2%	1	1	0	0	0	1	1			
	WAKE	\$119,511	74	6.38%	96	\$64,107	100	5.20%	95	365	98	961,945	10.9%	3	3	98	98	98	99	3			
	WARREN	\$128,178	80	-1.68%	8	\$33,068	15	9.16%	10	113	17	19,676	24.4%	1	1	0	0	0	1	1			
	WASHINGTON	\$65,785	16	-2.63%	6	\$32,545	12	7.91%	27	61	8	12,826	26.5%	1	1	0	0	0	1	1			
	WATAUGA	\$170,911	91	3.28%	78	\$38,563	46	6.05%	83	298	84	52,682	28.8%	3	3	84	84	84	86	3			
	WAYNE	\$62,819	10	2.08%	67	\$38,776	48	6.78%	64	189	43	124,299	21.6%	2	2	43	43	43	64	2			
	WILKES	\$80,255	46	0.75%	53	\$35,362	28	7.51%	38	165	31	69,518	22.4%	1	2	31	31	31	46	2			
	WILSON	\$77,308	38	0.12%	36	\$37,440	40	9.54%	7	121	20	81,397	22.8%	1	1	20	20	20	39	1			
	YADKIN	\$71,021	26	-0.70%	21	\$40,012	52	5.45%	92	191	44	38,131	17.6%	2	2	41	41	41	49	2			
	YANCEY	\$148,388	87	0.75%	52	\$36,019	30	7.39%	42	211	55	17,921	18.9%	1	2	41	41	41	49	2			



**Attachment – 4**

**Question – 9**

## **Catawba County Backup PSAP Plan Extension Request**

Brian A Drum

**Sent:** Friday, June 03, 2016 5:05 PM

**To:** richard.taylor@nc.gov

**Attachments:** Catawba County Back Up Pla~1.pdf (494 KB) ; Catawba County Backup Pla~1.docx (14 KB)

Mr. Taylor,

I am sending this email to request an extension for the implementation of Catawba County's backup PSAP plan. I have attached a formal letter requesting the extension and also an implementation timeline as requested.

If you have any other questions, please feel free to contact me at 828-465-8330 or by email.

Thank you,

Brian

Brian A Drum - Catawba County 911 Communications Manager [BADrum@CatawbaCountyNC.gov](mailto:BADrum@CatawbaCountyNC.gov)  
Justice Center 100-B Southwest Blvd Newton, NC 28658  
Office 828-465-8330 - Fax 828-465-1220



911 Communications Center  
PO Box 389  
100A South West Blvd  
Newton, NC 28658-0368  
Telephone: 828-465-8330  
[www.catawbacountync.gov](http://www.catawbacountync.gov)

June 3, 2016

Mr. Richard Taylor, ENP  
Executive Director  
Office of Information Technology Services  
NC 911 Board  
PO Box 17209  
Raleigh, NC 27619-7209

Dear Mr. Taylor,

On behalf of the Catawba County 911 Communications Center, I am requesting an extension for the implementation of our Backup PSAP plan. The plan was submitted by email to the 911 Board staff on April 25, 2016 to Miss Tina Bone's attention. However, it has not been approved.

Also, the timeline for completion of the plan is attached.

If you have any questions, please contact Brian Drum at 828-465-8330.

Thank you for your consideration of this matter.

Sincerely,

A handwritten signature in black ink that reads "Bryan D. Blanton". The signature is written in a cursive, flowing style.

Bryan Blanton  
Director of Emergency Services

Enclosure

**Attachment – 5**

**Question – 10**

# CATAWBA COUNTY

North Carolina



# 2015

## Technology Department Overview

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# Justice Center Expansion

The Justice Center expansion incorporates advanced technology components. As part of the construction project team, the Technology Department has assisted with planning, detail specifications, and scheduling. Moving forward, we will coordinate and manage the technology portions of the new facility, including:

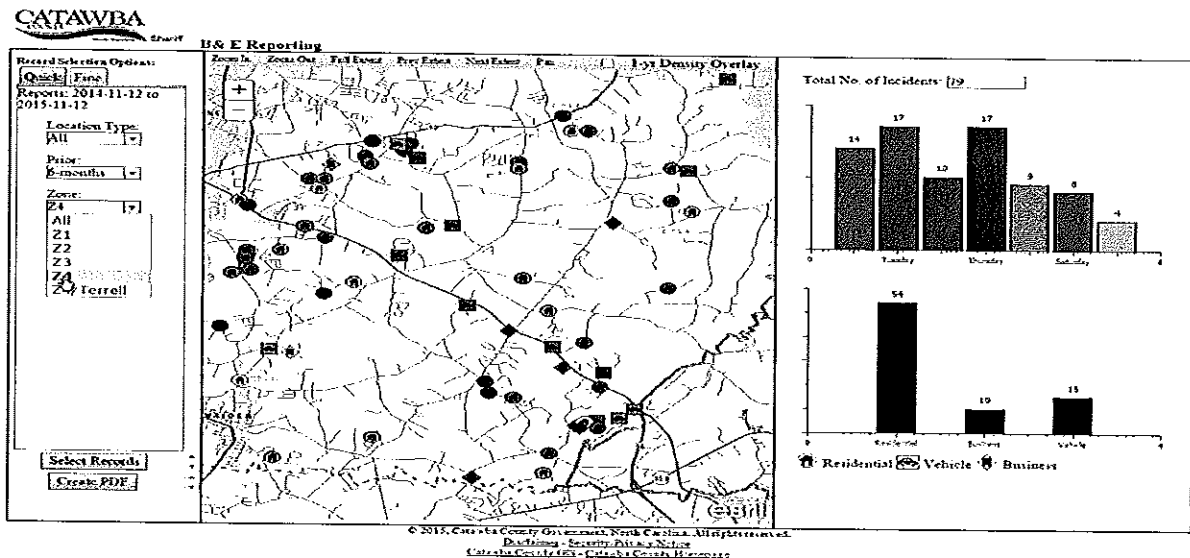
- State of the art e911 Communications Center
- State of the art e911 Data Center
  - Separate but redundant servers, databases, Storage Area Network (SAN), and heating and cooling
- Local and Wide Area Network Connectivity
- Wireless Network Coverage
- VoIP Phone Services
- Surveillance and safety Systems - cameras
- Digital Signage/projection systems
- Desktop and Peripheral Devices (PCs, Scanners, Printers, etc...)
- Mobile Devices - procure and support



# Public Safety

Provide 24x7 technical support to all Catawba County public safety agencies: Sheriff, Emergency Services, and Communications Center (e911).

- Online Incident Reports and Arrest Records - Provides self-service, 24x7 access to Incident Reports for individuals, media and insurance companies.
  - Reduce staff processing time
  - Reduce paper usage
  - Reduce travel for citizens/media requesting reports/records
- B&E inter-active web map provides officers the ability to search a specific timeframe in any, or all, of the Sheriff's Zones and display the B&E crimes for that timeframe, and area, on a map. The map can be viewed for a quick reference or it can be printed if necessary.
  - reduces staff time producing maps each week
  - reduces email storage, maps can be produced on the fly instead of producing and emailing pdf files as was the previous method

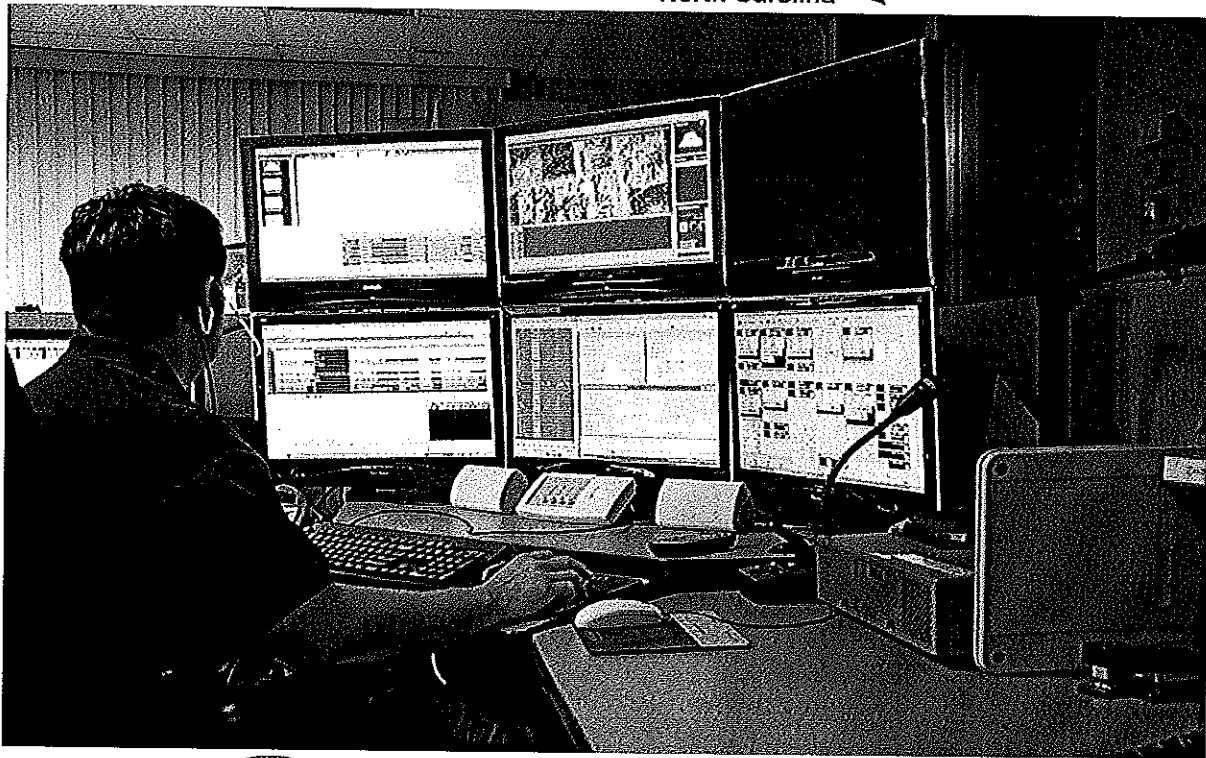


- Surveillance/DVR System for Jail - Replaced outdated surveillance system for the County jail
- Video Arraignment - Remote communication solution provides a connection between the jail, courthouse, and other remote locations to provide safety and cost efficiency.
  - Arraignment completed without moving the inmate from secure detention
  - Reduced transportation costs
- Public Safety hardware and software upgrades are performed bi-annually to improve functionality and provide more seamless sharing of information with medical/public safety providers



# 911 Infrastructure

Catawba County 911 is the primary emergency portal for the county. Information collected in our system supports the county as well as the larger municipalities by passing information to them electronically. To increase our municipal partnerships, as well as create greater efficiency throughout the system, the IT Infrastructure team is currently working on the following projects:



- Adding backup 911 site at Hickory Police Department and setting up two data connections for redundancy
- Extending full 911 connectivity to Newton Police Department
- Adding network connectivity to the Maiden Highway Patrol station to ensure a redundant link for the Viper radio system

**Attachment – 6**

**Questions – 11 and 23**

Per PSAP Audit, Balance as of	06/30/2015	\$ 2,215,948.46
Added effective	07/01/2015	\$ 352,838.00
		\$ 2,568,786.46
Expenses as of	05/05/2016	\$ (273,845.43)
Estimated Expenses for GIS for FY		\$ (110,000.00)
Estimated Expenses - remainder of FY		\$ (41,645.00)
		\$ 2,143,296.03
Per Quotes, \$\$ spent on move as of	05/06/2016	\$ (1,638,745.34)
		\$ 504,550.69
estimated amt to be added eff	07/01/2016	\$ 493,939.72
		\$ 1,950,000.00
Per Quotes, \$\$ spent on move as of	05/06/2016	\$ (1,638,745.34)
		\$ 311,254.66

<b><u>911 HARDWARE</u></b>	<b>Qty</b>	<b>Quoted Cost</b>	<b>Vendor</b>	<b>PO #</b>	<b>Notes</b>
Workstations (12-911 center, 1 spare, b.drum, b.wager)	15	\$ 29,890.80	HP	2016-000863	911 allowable / \$1000 per workstation
Monitor Cables	80	\$ 2,400.00	CDW-G	2016-000864	
Monitors 24" HP (3 options); Dell	72	\$ 26,302.32	HP	2016-000862	Stands included in Console
Radio dispatch consoles (MCC 7500)	12	\$ 770,066.80	Motorola	2015-000457	\$21,550 disallowed / \$197,903.20 pd
911 phone system (Side A - moving 7 + 5 new positions)	12	\$ 168,916.89	Wireless	2016-000860	Vesta positions + patriot
Stancil move		\$ 2,200.00	Synergon Solutions	2016-000853	
Eventide LexLog 840 Recorder Installation & Integration	1	\$ 132,444.57	Carolina Recording	2016-000856	
<b><u>911 Software</u></b>					
Tritech (CAD and GeoComm Licenses)	1	\$ 121,846.16	Tritech	2016-000858	
Priority Dispatch and Additional USB Dongles	1	\$ 23,429.00	Priority Dispatch	2016-000852	
<b><u>911 Furniture</u></b>					
ECC work Stations	12	\$ 352,843.90	Evans	2016-000798	Debbie Anderson getting quote by March 25
ECC Chairs	5	\$ 8,404.90	Elite Ergonomics	2016-000851	Needs to be included in the current Technology Budget

Total \$ 1,638,745.34

# Purchase Order

## CATAWBA COUNTY

PO Box 389  
100 A South West Blvd  
Newton NC 28658

Supplier: 32300  
Hewlett Packard  
10810 Franham Drive  
Omaha NE 68154

Dispatch via E-Mail 05/16/2016

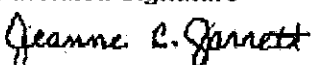
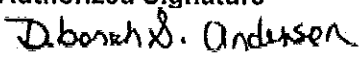
Purchase Order	Date	Revision	Page
2016000863	05/13/2016		1
Show this number on all shipping containers, packing lists, and correspondence.			
Payment Terms	Freight Terms	Ship Via	
	Destination	Best Value	
Buyer	Phone		Currency
Barbara Sue Wager			USD

Ship To: Communications Center  
100B S West Blvd  
Justice Center  
Newton NC 28658

Bill To: PO Box 389  
100 A South West Blvd  
Newton NC 28658

Item/Description	Mfg ID	UOM	Quantity	PO Price	Extended Amt
1 Configurable HP Z440 Microsoft Windows Workstation - F5W13AV		EA	15.00	1,992.72	29,890.80
Account no.: 202-280100-985000-					

Total PO Amount 29,890.80

Authorized Signature 	Authorized Signature 
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This instrument has been preaudited in the manner  
required by the Local Government Budget and Fiscal  
Control Act.

APPROVED FOR ISSUE

**SALES TAX WILL BE INCLUDED WITH INVOICE PAYMENT**

PLEASE STATE DISCOUNT FOR PAYMENT WITHIN 10 DAYS OF DATE OF INVOICE

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

Visit our website: [WWW.CATAWBACOUNTYNC.GOV](http://WWW.CATAWBACOUNTYNC.GOV)

# Purchase Order

## Terms and Conditions

1. Submit all claims for payment by detailed itemized invoice in duplicate.
2. MAIL OR DELIVER ALL INVOICES TO CATAWBA COUNTY, ACCOUNTS PAYABLE, PO BOX 389, NEWTON, NORTH CAROLINA 28658.
3. Invoices for partial deliveries must be so indicated.
4. The conditions of this order are not to be modified by any verbal understanding. Any changes must be in writing or by a corrected purchase order.
5. INVOICES AND PACKAGES MUST BEAR THIS ORDER NUMBER ON THE OUTSIDE OF THE PACKAGE OR SHIPPING CONTAINERS.
6. The County of Catawba is exempt from Federal Excise Tax. If any form of such tax is billed on the invoice, it must be shown as a separate item. Tax Exemption Certificates will be furnished upon request.
7. NORTH CAROLINA STATE SALES TAX and CATAWBA COUNTY SALES TAX  
The County is not exempt from sales tax. North Carolina State sales tax in the amount of 4.75% or Catawba County Sales tax in the amount of 2.25% should be included unless items are being purchased for re-sale. Four and three quarter percent (4.75%) and two and one quarter percent (2.25%) sales tax should be shown as separate items on all invoice claims for payment. In case of purchases for re-sale, claims for payment should so indicate using re-sale tax exemption number 56-6001814.
8. Rejected materials will be returned to the Vendor at the Vendor's risk and expense.
9. It is agreed that the goods, materials, equipment or services rendered shall comply with all Federal, State, or local laws relative thereto, and that the Vendor shall defend actions or claims brought and save harmless the County or its officials or employees from loss, cost or damage by reason of actual or alleged infringement of letters patent, or for any other reason.
10. All prices must be f.o.b. delivered to point on the front of this order. Where a specific purchase is quoted or negotiated f.o.b. shipping point, the Vendor is to prepay shipping charges and add to the invoice.
11. Cash discounts will be deducted as provided for on the front of this Purchase Order, in accordance with the terms of your official quotation or bid. NET PURCHASES WILL BE PAID 30 DAYS FROM DATE OF YOUR INVOICE.
12. In case of default of the contractor, the County may procure the articles or services from other sources and charge the contractor as liquidated damages any excess cost or damages occasioned thereby.
13. Acceptance of the order includes acceptance of all terms, conditions, prices, delivery instructions and specifications as shown on the order or attached to and made a part of this order.
14. E-Verify. I understand that E-Verify is the federal E-Verify program operated by the United States Department of Homeland Security and other federal agencies, or any successor or equivalent program used to verify the work authorization of newly hired employees pursuant to federal law in accordance with NCGS § 64-25 et seq. I am aware of and in compliance with the requirements of E-Verify and Article 2 of chapter 64 of the North Carolina General Statutes. To the best of my knowledge, any, subcontractors employed by me as a part of this contract are in compliance with the requirements of E-Verify and Article 2 of Chapter 64 of the North Carolina General Statutes.
15. Iran Divestment Act Certification. Contractor certifies that, as of the date of the purchase order or contract, it is not on the Final Divestment List as created by the State Treasurer pursuant to N.C.G.S. § 143C-6A-5(b). Contractor shall not utilize in

# Purchase Order

the performance of the contractor any subcontractor that is identified on the Final Divestment List.

# Purchase Order

## CATAWBA COUNTY

PO Box 389  
100 A South West Blvd  
Newton NC 28658

Supplier: 31729  
CDW-Government  
230 North Milwaukee Ave  
Vernon Hills IL 60061

Dispatch via E-Mail 05/16/2016

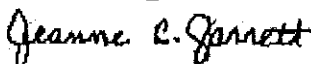
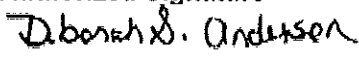
Purchase Order	Date	Revision	Page
2016000864	05/13/2016		1
Show this number on all shipping containers, packing lists, and correspondence.			
Payment Terms	Freight Terms	Ship Via	
	Destination	Best Value	
Buyer	Phone		Currency
Barbara Sue Wager			USD

Ship To: Communications Center  
100B S West Blvd  
Justice Center  
Newton NC 28658

Bill To: PO Box 389  
100 A South West Blvd  
Newton NC 28658

Item/Description	Mfg ID	UOM	Quantity	PO Price	Extended Amt
1 Monitor Cables - 80 - various sizes		EA	1.00	2,400.00	2,400.00
Account no.: 202-280100-985000-					

Total PO Amount 2,400.00

Authorized Signature	Authorized Signature
	

This instrument has been preaudited in the manner  
required by the Local Government Budget and Fiscal  
Control Act.

APPROVED FOR ISSUE

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# Purchase Order

## CATAWBA COUNTY

PO Box 389  
100 A South West Blvd  
Newton NC 28658

Supplier: 32300  
Hewlett Packard  
10810 Franham Drive  
Omaha NE 68154

Dispatch via E-Mail 05/16/2016

Purchase Order	Date	Revision	Page
2016000862	05/13/2016		1
Show this number on all shipping containers, packing lists, and correspondence.			
Payment Terms	Freight Terms	Ship Via	
	Destination	Best Value	
Buyer	Phone		Currency
Barbara Sue Wager			USD

Ship To: Communications Center  
100B S West Blvd  
Justice Center  
Newton NC 28658

Bill To: PO Box 389  
100 A South West Blvd  
Newton NC 28658

Item/Description	Mfg ID	UOM	Quantity	PO Price	Extended Amt
1 HP Z Display Z24i 24-inch IPS LED Backlit Monitor		EA	72.00	365.31	26,302.32
Account no.: 202-280100-985000-					

Total PO Amount 26,302.32

Authorized Signature <i>Jeanne E. Gannett</i>	Authorized Signature <i>Deborah S. Anderson</i>
--	--

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**RE: MCC7500 Radios**

Barbara Wager

Sent: Tuesday, May 17, 2016 12:41 PM

To: Brian A Drum

Brian, Here is the information on the MCC 7500 Radios (that I sent to Barron last Friday). The Board should have all of the information listed below, along with all of the supporting documentation. I will have to dig to find the PO that purchasing issued but if needed, I can find it.

PO 2015-000457 – encumbered \$989,516 under Account 410-460100-982000 12001

Pd \$197,904 on 01/22/15 – 2015 FY Interfund Transfer to account 202-280100-995410.

Balance on PO 2015-000457: \$791,612.80

The 911 Board will not reimburse us for \$21,550 of the total amount, per email from Karen Mason at the 911 Board dated 02/11/16. I can forward you a copy of the email for your records if needed.

So this will not show up on our 202-280100-985000 as it is already been encumbered.

If you need any additional information, please advise.

Thanks,

*Barbara Wager*

*Administrative Assistant*

*Catawba County Communications Center*

*Phone: 828-465-8959*

*[BWager@catawbacountync.gov](mailto:BWager@catawbacountync.gov)*

*Fax: 828-465-8394*

# Purchase Order

## CATAWBA COUNTY

PO Box 389  
100 A South West Blvd  
Newton NC 28658

Supplier: 17768  
Wireless Communications  
4800 Reagan Drive  
Charlotte NC 28206

Dispatch via E-Mail 05/16/2016

Purchase Order	Date	Revision	Page
2016000860	05/13/2016		1
Show this number on all shipping containers, packing lists, and correspondence.			
Payment Terms	Freight Terms	Ship Via	
	Destination	Best Value	
Buyer	Phone	Currency	
Barbara Sue Wager		USD	

Ship To: Communications Center  
100B S West Blvd  
Justice Center  
Newton NC 28658

Bill To: PO Box 389  
100 A South West Blvd  
Newton NC 28658

Item/Description	Mfg ID	UOM	Quantity	PO Price	Extended Amt
1 Vesta 9-1-1 Equipment - 5 new phone positions Account no.: 202-280100-985000-		EA	1.00	86,678.87	86,678.87
2 Licenses & support fees Account no.: 202-280100-985000-		EA	1.00	2,873.33	2,873.33
3 Touchscreen Monitors ((7), Blackbox KVMs, Netclock Account no.: 202-280100-985000-		EA	1.00	30,686.57	30,686.57
4 Installation Account no.: 202-280100-985000-		EA	1.00	45,481.31	45,481.31
5 1st Year Warranty Services Account no.: 202-280100-985000-		EA	1.00	2,546.72	2,546.72
6 Shipping Account no.: 202-280100-985000-		EA	1.00	650.09	650.09

Total PO Amount 168,916.89

Authorized Signature

*Jeanne E. Garrett*

Authorized Signature

*Deborah S. Anderson*

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# Purchase Order

## CATAWBA COUNTY

PO Box 389  
100 A South West Blvd  
Newton NC 28658

Supplier: 41253  
Synergon Solutions Inc  
1335 Gateway Drive  
Ste 2008  
Melbourne FL 32901

Dispatch via E-Mail 05/13/2016

Purchase Order	Date	Revision	Page
2016000853	05/13/2016		1
Show this number on all shipping containers, packing lists, and correspondence.			
Payment Terms	Freight Terms	Ship Via	
	Destination	Best Value	
Buyer	Phone		Currency
Barbara Sue Wager			USD

Ship To: Communications Center  
100B S West Blvd  
Justice Center  
Newton NC 28658

Bill To: PO Box 389  
100 A South West Blvd  
Newton NC 28658

Item/Description	Mfg ID	UOM	Quantity	PO Price	Extended Amt
1 Moving current recording equipment into new Communications Center as back up system		EA	1.00	2,200.00	2,200.00

Account no.: 202-280100-985000-

Total PO Amount 2,200.00

Authorized Signature

*Jeanne C. Garrett*

Authorized Signature

*Deborah S. Andersen*

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# Purchase Order

## CATAWBA COUNTY

PO Box 389  
100 A South West Blvd  
Newton NC 28658

Supplier: 30597  
Carolina Recording Systems Inc  
P O Box 3065  
Mooreville NC 28117

Dispatch via E-Mail 05/13/2016

Purchase Order	Date	Revision	Page
2016000856	05/13/2016		1
Show this number on all shipping containers, packing lists, and correspondence.			
Payment Terms	Freight Terms	Ship Via	
	Destination	Best Value	
Buyer	Phone	Currency	
Barbara Sue Wager		USD	

Ship To: Communications Center  
100B S West Blvd  
Justice Center  
Newton NC 28658

Bill To: PO Box 389  
100 A South West Blvd  
Newton NC 28658

Item/Description	Mfg ID	UOM	Quantity	PO Price	Extended Amt
1 Eventide NexLog 840 Recording Server		EA	1.00	57,989.00	57,989.00
Account no.: 202-280100-985000-					
2 Motorola Astro P25 Intergration		EA	1.00	75,490.00	75,490.00
Account no.: 202-280100-985000-					
3 Network Attached Storage Server, Rack Mount, Quad Core Processor, 4GB Ram, Redundant Power Supply		EA	1.00	5,995.00	5,995.00
Account no.: 202-280100-985000-					
4 Professional Services including site survey, installation, configuration, testing & unlimited training		EA	1.00	2,500.00	2,500.00
Account no.: 202-280100-985000-					
5 Shipping		EA	1.00	125.00	125.00
Account no.: 202-280100-985000-					
6 Less GSA Discount (Based on GSA Contract Number GS-35F-0415V)		EA	1.00	-19,639.43	-19,639.43
Account no.: 202-280100-985000-					
7 Screen Recording System License w/ 15 PC Licenses		EA	1.00	3,500.00	3,500.00
Account no.: 202-280100-985000-					
8 Quality Factor: Call Evaluation Base-Level Software for first 20 agents		EA	1.00	2,500.00	2,500.00
Account no.: 202-280100-985000-					
9 GeoFence Search and View Location on Google Maps		EA	1.00	995.00	995.00

Authorized Signature <i>Jeanne E. Garrett</i>	Authorized Signature <i>Deborah S. Anderson</i>
--	--

This instrument has been preaudited in the manner required by the Local Government Budget and Fiscal Control Act.

APPROVED FOR ISSUE

**SALES TAX WILL BE INCLUDED WITH INVOICE PAYMENT**

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# Purchase Order

## CATAWBA COUNTY

PO Box 389  
100 A South West Blvd  
Newton NC 28658

Supplier: 30597  
Carolina Recording Systems Inc  
P O Box 3065  
Mooresville NC 28117

Dispatch via E-Mail 05/13/2016

Purchase Order	Date	Revision	Page
2016000856	05/13/2016		2
Show this number on all shipping containers, packing lists, and correspondence.			
Payment Terms	Freight Terms	Ship Via	
	Destination	Best Value	
Buyer	Phone	Currency	
Barbara Sue Wager		USD	

Ship To: Communications Center  
100B S West Blvd  
Justice Center  
Newton NC 28658

Bill To: PO Box 389  
100 A South West Blvd  
Newton NC 28658

Item/Description	Mfg ID	UOM	Quantity	PO Price	Extended Amt
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Account no.: 202-280100-985000-

10	45 Baud Analog TTY Decoder for TDD & SMS-to-911	EA	1.00	1,995.00	1,995.00
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Account no.: 202-280100-985000-

11	Eventide Enhanced Reporting Package	EA	1.00	995.00	995.00
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Account no.: 202-280100-985000-

Total PO Amount 132,444.57

Authorized Signature

*Jeanne C. Garrett*

Authorized Signature

*Deborah S. Andersen*

This instrument has been preaudited in the manner required by the Local Government Budget and Fiscal Control Act.

APPROVED FOR ISSUE

**SALES TAX WILL BE INCLUDED WITH INVOICE PAYMENT**

PLEASE STATE DISCOUNT FOR PAYMENT WITHIN 10 DAYS OF DATE OF INVOICE

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

Visit our website: [WWW.CATAWBACOUNTYNC.GOV](http://WWW.CATAWBACOUNTYNC.GOV)

# Purchase Order

## CATAWBA COUNTY

PO Box 389  
100 A South West Blvd  
Newton NC 28658

Supplier: 32512  
Tritech Software Systems  
9477 Waples Street, Ste 100  
San Diego CA 92121

Dispatch via E-Mail 05/16/2016

Purchase Order	Date	Revision	Page
2016000858	05/13/2016		1
Show this number on all shipping containers, packing lists, and correspondence.			
Payment Terms	Freight Terms	Ship Via	
	Destination	Best Value	
Buyer	Phone	Currency	
Barbara Sue Wager		USD	

Ship To: Communications Center  
100B S West Blvd  
Justice Center  
Newton NC 28658

Bill To: PO Box 389  
100 A South West Blvd  
Newton NC 28658

Item/Description	Mfg ID	UOM	Quantity	PO Price	Extended Amt
1 TriTech Software License Fee for NCIC/State & VisionCAD		EA	1.00	63,437.52	63,437.52
Account no.: 202-280100-985000-					
2 TriTech Implementation Service Fees for VisionCAD Software License Installation		EA	1.00	175.00	175.00
Account no.: 202-280100-985000-					
3 Project Management		EA	1.00	13,249.64	13,249.64
Account no.: 202-280100-985000-					
4 GeoComm Installation & Licenses		EA	1.00	26,893.75	26,893.75
Account no.: 202-280100-985000-					
5 Annual Maintenance Fees for 1 year for GeoComm, VisionCad, NCIC/State		EA	1.00	18,090.25	18,090.25
Account no.: 202-280100-985000-					

Total PO Amount 121,846.16

Authorized Signature <i>Jeanne C. Garrett</i>	Authorized Signature <i>Deborah S. Anderson</i>
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This instrument has been preaudited in the manner required by the Local Government Budget and Fiscal Control Act.

APPROVED FOR ISSUE

**SALES TAX WILL BE INCLUDED WITH INVOICE PAYMENT**

PLEASE STATE DISCOUNT FOR PAYMENT WITHIN 10 DAYS OF DATE OF INVOICE

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Visit our website: [WWW.CATAWBACOUNTYNC.GOV](http://WWW.CATAWBACOUNTYNC.GOV)

# Purchase Order

## CATAWBA COUNTY

PO Box 389  
100 A South West Blvd  
Newton NC 28658

Supplier: 19202  
Priority Dispatch Corp  
Attn Accounting Department  
110 South Regent Street Ste 500  
Salt Lake City UT 84111

Dispatch via E-Mail 05/13/2016

Purchase Order	Date	Revision	Page
2016000852	05/13/2016		1
Show this number on all shipping containers, packing lists, and correspondence.			
Payment Terms	Freight Terms	Ship Via	
	Destination	Best Value	
Buyer	Phone	Currency	
Barbara Sue Wager		USD	

Ship To: Communications Center  
100B S West Blvd  
Justice Center  
Newton NC 28658

Bill To: PO Box 389  
100 A South West Blvd  
Newton NC 28658

Item/Description	Mfg ID	UOM	Quantity	PO Price	Extended Amt
1 ProQA Software Licenses (Medical - Paramount - Standard)		EA	5.00	3,500.00	17,500.00
Account no.: 202-280100-985000-					
2 Backup Cardset (Medical 13.0 Standard)		EA	6.00	495.00	2,970.00
Account no.: 202-280100-985000-					
3 Annual Maintenance - Basic Package (ESP) for Cardsets (Medical - Standard)		EA	1.00	294.00	294.00
Account no.: 202-280100-985000-					
4 Annual Maintenance - Basic Package (ESP) for ProQA Software (Medical-Standard)		EA	1.00	2,625.00	2,625.00
Account no.: 202-280100-985000-					
5 Shipping & Handling		EA	1.00	40.00	40.00
Account no.: 202-280100-985000-					

Total PO Amount 23,429.00

Authorized Signature

*Jeanne C. Garrett*

Authorized Signature

*Deborah S. Anderson*

This instrument has been preaudited in the manner required by the Local Government Budget and Fiscal Control Act.

APPROVED FOR ISSUE

**SALES TAX WILL BE INCLUDED WITH INVOICE PAYMENT**

PLEASE STATE DISCOUNT FOR PAYMENT WITHIN 10 DAYS OF DATE OF INVOICE

SEE REVERSE SIDE FOR TERMS AND CONDITIONS

Visit our website: [WWW.CATAWBACOUNTYNC.GOV](http://WWW.CATAWBACOUNTYNC.GOV)



# Purchase Order

## CATAWBA COUNTY

PO Box 389  
100 A South West Blvd  
Newton NC 28658

Supplier: 42456  
Evans Consoles Inc  
1577 Spring Hill Rd  
Ste 450  
Vienna VA 22182

Dispatch via E-Mail 05/02/2016

Purchase Order	Date	Revision	Page
2016000798	05/02/2016		1
Show this number on all shipping containers, packing lists, and correspondence.			
Payment Terms	Freight Terms	Ship Via	
	Destination	Best Value	
Buyer	Phone	Currency	
Tammy Buchanan Austin		USD	

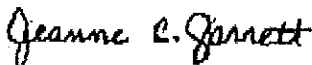
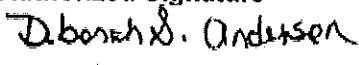
Ship To: PO Box 389  
100 A South West Blvd  
Newton NC 28658

Bill To: PO Box 389  
100 A South West Blvd  
Newton NC 28658

Item/Description	Mfg ID	UOM	Quantity	PO Price	Extended Amt
1 Consoles 1 & 2 as described in lines 1 thru 30 of quoted #U12-5438-301 dated April 28, 2016 Account no.: 202-280100-985000-		EA	1.00	149,640.00	149,640.00
2 Console 3 as described in lines 31 thru 60 on quote #U12-5438-301 dated April 28, 2016 Account no.: 202-280100-985000-		EA	1.00	89,207.45	89,207.45
3 Supervisor Console as described in lines 61 thru 90 on quoted #U12-5438-301 dated April 28, 2016 Account no.: 202-280100-985000-		EA	1.00	63,347.85	63,347.85
4 Standalone Millwork as described in lines 91 and 92 on quote #U12-5438-301 dated April 28, 2016 Account no.: 202-280100-985000-		EA	1.00	1,492.60	1,492.60
5 Freight Account no.: 202-280100-985000-		EA	1.00	21,847.00	21,847.00
6 Installation as described on Quote #U12-5438-301 dated April 28, 2016 Account no.: 202-280100-985000-		EA	1.00	27,309.00	27,309.00

HGAC Cooperative Purchasing Contract

Total PO Amount 352,843.90

Authorized Signature	Authorized Signature
	

This instrument has been preaudited in the manner required by the Local Government Budget and Fiscal Control Act.

APPROVED FOR ISSUE

**SALES TAX WILL BE INCLUDED WITH INVOICE PAYMENT**

PLEASE STATE DISCOUNT FOR PAYMENT WITHIN 10 DAYS OF DATE OF INVOICE

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Visit our website: [WWW.CATAWBACOUNTYNC.GOV](http://WWW.CATAWBACOUNTYNC.GOV)

# Purchase Order

## CATAWBA COUNTY

PO Box 389  
100 A South West Blvd  
Newton NC 28658

Supplier: 41745  
Elite Ergonomics LLC  
104 Westminster Way  
McDonough PA 30253-8721

Dispatch via E-Mail 05/13/2016

Purchase Order	Date	Revision	Page
2016000851	05/13/2016		1
Show this number on all shipping containers, packing lists, and correspondence.			
Payment Terms	Freight Terms	Ship Via	
	Destination	Best Value	
Buyer	Phone	Currency	
Barbara Sue Wager		USD	

Ship To: Communications Center  
100B S West Blvd  
Justice Center  
Newton NC 28658

Bill To: PO Box 389  
100 A South West Blvd  
Newton NC 28658

Item/Description	Mfg ID	UOM	Quantity	PO Price	Extended Amt
1 Ironhorse 4000HD leather Chairs plus shipping		EA	5.00	1,736.98	8,684.90
Account no.: 202-280100-985000-					

Total PO Amount 8,684.90

Authorized Signature

*Jeanne E. Garrett*

Authorized Signature

*Deborah S. Anderson*

This instrument has been preaudited in the manner  
required by the Local Government Budget and Fiscal  
Control Act.

APPROVED FOR ISSUE

**SALES TAX WILL BE INCLUDED WITH INVOICE PAYMENT**

PLEASE STATE DISCOUNT FOR PAYMENT WITHIN 10 DAYS OF DATE OF INVOICE

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**911 Fund Expenses for 16-17 FY**

Barbara Wager

**Sent:** Tuesday, May 17, 2016 1:10 PM**To:** Brian A Drum**Attachments:** 911 Fund Expenses for 16-~1.xlsx (19 KB)

Brian,

Please find attached the expenses for the 202 fund as of today, May 17. The numbers won't exactly match when we do the 911 audit in September, but this is the best estimate I can give you at this point in time.

I have also estimated out the remainder of the year for such things as phone costs, training cost and what we pay to GIS for 911 Data Base/911 Addressing.

This worksheet does not include the expenses for the two back up centers, as those funds come in and go out every month (and we do not have to confirm the monies on our audit).

Look it over and please feel free to ask any questions.

Thanks,

<b>PSAP NAME:</b>	Catawba County	As of 5/17/16		
<b>911 Phone System:</b>				
<b>911 Trunk/Selective Routing/ALI Provisioning</b>	32,200.00	AT&T		
	12,300.00	Century Link		
Interpretive Services	1,000.00	Language Line		
	621.00	Fluent Language		
<b>MPLS-Fiber used for backup PSAPs connections</b>	\$ 17,100.00	Broadplex		
911 telephone equipment (CPE, etc.)	\$ 63.00	Tele-Communicators		
	2,994.00	CMS Commications		
<b>Telecommunicator Furniture</b>				
Cabinets, tables, desks which hold 911 equipment	2,100.00	CCS	Contractual Maintenance	
<b>Software Expenditures</b>				
<b>CAD (modules that are part of the call-taking process only)</b>	35,019.00	Tritech	Contractual Maintenance	
Voice Logging Recorder	7,154.00	Stancil Solutions	Contractual Maintenance	
MIS for 9-1-1 phone system	49,072.00	Wireless Comm	Contractual Maintenance	
Dispatch Protocols (Law, Fire, Medical)	7,481.00	Priority Dispatch	Contractual Maintenance	
<b>Hardware Expenditures</b>				
UPS	3,010.00	Jantech	Contractual Maintenance	
Radio Console (mobile radio configured for exclusive use at the dispatcher work station for dispatcher operation to perform dispatch function when there is no traditional console installed at the workstation)	17,850.24	Motorola Solutions	Contractual Maintenance	
<b>Training Expenditures</b>				
EMD Advanced Certification (4 Attendees)	\$1,445.00	Priority Dispatch		

EMD Recertification (11 Tests)	\$550.00	NAED		
EMD Retest (1 Test)	\$30.00	NAED		
EMD-Q Certification (2)	\$1,100.00	Priority Dispatch		
EMD-Q Recertification (2)	\$200.00	NAED		
Telecommunicator Training Manual	\$37.00	Wilkes Community College Bookstore		
Telecommunicator Training Manual	\$121.00	NCJA Bookstore (4)		
CPR Cards	\$102.00	CVCC		
Supervisor Training	\$520.00	Catawba County		
APCO Certified Training Officer	\$389.00	APCO		
Per diem per attendee	\$1,000.00			
Database Provisioning for 911	\$ 145,248.00	Intrado		
	\$ 60,447.36	Implemental Functions - in house - Estimated		
Addressing for 911	\$ 42,544.75	Implemental Functions - in house - Estimated		
Total as of 05/12/16	\$ 248,240.11			

**CAD & mapping server quote from SIRIUS for the primary are the items not highlighted or broken out. Those items are to be located at the backup PSAP.**



Quote Date: 01/07/16  
Expires: 02/03/2016  
Calawba County - C240M4-128GB Servers  
Proposal #: PR115652.1

Client Executive:  
Eric Lieblech  
Phone: (248) 225-3708  
Email:  
eric.lieblech@siriuscom.com

Part #	Description	Qty	Ext. Sale Price
UCS-SPM-C220M4-A1	UCS SP Select C220M4S Adv1 w/2xE52680 v38x16GBVIC1227-A C1	4	\$0.00
UCS-SP-C220M4-A1	UCS SP Select C220M4S Advanced1 w/2xE52680 v38x16GBVIC1227	4	\$31,692.72
CON-3SNTF-SMC220A1	3YR SNTC 24X7X4 UCS SP Select C220M4S Advanced1 w/2xE52680 v	4	\$4,010.40
UCS-CPU-E52680D	2.60 GHz E5-2680 v3/120W 12C/30MB Cache/DDR4 2133MHz	8	\$0.00
UCS-MR-1X162RU-A	16GB DDR4-2133 MHz RDIMM/PC4-17000/dual rank/x4/1.2V	32	\$0.00
UCSC-MRAID12G	Cisco 12G SAS Modular Raid Controller	4	\$0.00
UCSC-MRAID12G-1GB	Cisco 12Gbps SAS 1GB FBWC Cache module (Raid 0/1/5/6)	4	\$0.00
UCSC-MLOM-CSC-02	Cisco UCS VIC1227 VIC-MLOM - Dual Port 10Gb SFP+	4	\$0.00
UCSC-PSU1-770W	770W AC Hot-Plug Power Supply for 1U C-Series Rack Server	8	\$0.00
CAB-3K12A-NA	Power Cord 125VAC T3A NEMA 5-15 Plug North America	8	\$0.00
N20-BBLKD	UCS 2.6 Inch HDD blanking panel	32	\$0.00
UCSC-HS-C220M4	Heat sink for UCS C220 M4 rack servers	8	\$0.00
UCSC-RAILB-M4	Ball Bearing Rail Kit for C220 M4 and C240 M4 rack servers	4	\$0.00
UCSC-SOCBL220	Supercap cable 950mm	4	\$0.00
N20-BKVM	KVM local IO cable for UCS servers console port	4	\$0.00
C1F2PUCSK9-UCS-SPM	UCS SP Cisco ONE Foundation Perpetual UCS 1-9	4	\$2,111.62
CON-ECMUS-C1F2PUCS	SOLN SUPP SWSS Cisco ONE Foundation Perpetual UCS 1-9	4	\$4,135.78
C1-EGW-DC-K9	Cisco ONE Energy Mgmt Perpetual Lic - 1 DC End Point	4	\$0.00
C1-NIK-ESSTL	Nexus 1000V Essential Edition Qty=2	4	\$0.00
C1-PSO-F1-K9	Cisco ONE Prime Service Catalog Foundation Per Server	4	\$0.00
C1-UCC-1	Cisco ONE Foundation UCS Control per Server	4	\$0.00
C1-UCD-VM	Cisco ONE UCS Director Foundation Compute Per Server (50 VM)	4	\$0.00
C1-UPM-EE	Cisco ONE UCS Performance Manager Express Edition	4	\$0.00
C1F2SICFBK9	Cisco ONE Foundation Subsr Intercloud Fabric For Business	4	\$0.00
CON-ECMUS-C1F2SICF	SOLN SUPP SWSS Cisco ONE Foundation Subsr Intercloud Fa	4	\$0.00
C1-ICFB2-A-LIC-K9	Cisco ONE Intercloud Fabric For Business General cloud lic	4	\$0.00
C1F21ICFB004K9	Cisco ONE Foundation ICFB General cloud 1YR 4 Hybrid Port	4	\$0.00
UCSC-PCI-E-JR145	Intel I350 Quad Port 1Gb Adapter	4	\$1,048.00
N2XX-AQPC105	Qlogic QLE2602 Dual Port 8Gb Fibre Channel HBA	4	\$8,157.64
UCS-SD-32G-S	32GB SD Card for UCS servers	4	\$288.80
QUICKSTART	VMware vSphere QuickStart Installation Services	1	\$9,000.00
SERVICES			
Total			\$61,920.84
			*Est. Shipping and Handling \$231.14

This quote has been generated for budgetary purposes only.

Unless otherwise noted, price does not include shipping, handling or applicable tax which may be added at the time of invoice. Any shipping and handling charges contained on this proposal are estimates, which may be adjusted at the time of invoice.

This proposal is valid if ordered on or before 02/06/2016.

Until Sirius receives and accepts a Purchase Order or this Purchase Authorization for the solution proposed, pricing provided in this Proposal is subject to change based on manufacturer's pricing schedule. The Products contained on this Order may be delivered to the Customer through multiple shipments based upon supplier availability, and Customer agrees to pay a partial payment of the total purchase price stated above for any such partial shipment of Products.

All of the information provided in this Proposal is considered confidential and proprietary between Sirius and Calawba County. Information enclosed in this Proposal may not be disclosed, disseminated, or otherwise revealed to any party outside of Calawba County or any party within Calawba County who is not privileged to receive such information.

#### PURCHASE TERMS AND CONDITIONS

1. Purchase Price; Payment; Taxes. Customer agrees to pay the total purchase price as shown on the attached Sirius proposal (the "Order"), plus any applicable sales/use tax. These Purchase Terms and Conditions (the "Terms") are explicitly made a part of the Order and are hereby incorporated therein by reference. Payment is due within thirty (30) days from the date of the invoice, unless alternative terms have been agreed upon between Sirius and the client prior to the date of this proposal. Customer agrees that any payment not received by Sirius within thirty (30) days of the invoice date shall be subject to an annual interest charge of 12%, or the maximum allowed by law, whichever is less.

2. **Payment by Third Party Leasing Company.** If Customer enters into a lease agreement with a third party leasing company to finance the Order, Customer shall remain bound by these terms and conditions, except to the extent that the third party leasing company shall be obligated to pay the total purchase price of the Order. In the event the third party leasing company fails to make such payment, Customer shall make such payment, and Sirius shall convey title (where applicable) to Customer upon payment of the total purchase price of the Order.

3. **Freight Costs; Delivery.** Sirius will arrange for shipment and delivery of the Products listed in the applicable Order to the installation site. Unless specifically stated otherwise, Customer will be responsible for shipping and delivery charges. Risk of loss to the Products shall pass to Customer upon delivery at Customer's site.

4. **Title; Security Interest.** Title to each product (other than software) to be sold by Sirius hereunder shall pass to Customer upon delivery. Title to software is not being transferred and the right to use software included in the Order shall be governed by a separate license agreement between Customer and the software vendor.

5. **Returns.** No products (including Software) shall be returned to Sirius or software subscriptions cancelled by Customer without prior written approval from Sirius.

6. **Limited Warranties.** Sirius represents and warrants that, at the time each product is delivered, Sirius will be the lawful owner of such product (other than software products), free and clear from any liens and encumbrances, and will have full right, power and authority to transfer good and valid title to the same to Customer. Sirius, as the lawful/authorized reseller of the products being delivered to Customer, represents and warrants that such products will be accompanied by the applicable manufacturer's or software licensor's representations and warranties (either directly through the manufacturer/software licensor or as transferred by Sirius) in accordance with the manufacturer's/software licensor's policies. Customer agrees it is relying solely on the manufacturer's representations and warranties (except as expressly set forth above) and Sirius shall have no liability or obligations with respect to any manufacturers' representations and warranties, and any claims by Customer shall be made solely against the manufacturer.

Notwithstanding the foregoing, with respect to products that have been used and/or refurbished and therefore do not have any manufacturer's warranty, Sirius warrants that for a period of thirty (30) days immediately following the delivery of the products, such products will qualify for the manufacturer's maintenance agreement, if the products are both installed by the manufacturer and placed under the manufacturer's maintenance agreement prior to such installation within such thirty (30) day period; provided, that Customer's exclusive recourse for a breach of this warranty shall be either the repair or replacement of such refurbished equipment or a refund of the purchase price. After such thirty (30) day period, Customer assumes all liability for such products which are either defective or may be incomplete and Sirius will have no further liability or obligation with respect thereto.

As Sirius is not the manufacturer of the products listed on the Order, Customer waives any claim against Sirius based upon (i) any infringement or alleged infringement of any patent or other intellectual property rights with respect to any products sold hereunder or any software licensed by any third party or (ii) any indemnity claim or obligation made by another against Customer arising out of any such infringement or alleged infringement.

EXCEPT AS EXPRESSLY SET FORTH IN THIS SECTION, SIRIUS MAKES NO OTHER REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, TO CUSTOMER OR TO ANY OTHER PERSON OR ENTITY REGARDING PRODUCTS, SOFTWARE AND/OR SERVICES OR OTHER ITEMS PROVIDED BY SIRIUS UNDER THE ORDER OR THE RESULTS TO BE DERIVED FROM THE USE THEREOF, AND SIRIUS EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES ARISING FROM COURSE OF DEALING, USAGE OF TRADE OR COURSE OF PERFORMANCE, AND THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

7. **Limitation of Liability.** IN NO EVENT WILL SIRIUS BE LIABLE TO CUSTOMER FOR CONSEQUENTIAL, INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE, OR ANY OTHER NON-DIRECT DAMAGES INCLUDING, WITHOUT LIMITATION, LOSS OF OR DAMAGE TO DATA, LOST PROFITS OR FUTURE REVENUES, COST OF CAPITAL, LOSS OF BUSINESS REPUTATION OR OPPORTUNITY OR ANY CLAIM OR DEMAND AGAINST CUSTOMER BY ANY THIRD PARTY, HOWEVER CAUSED, WHETHER UNDER THEORY OF CONTRACT, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. SIRIUS' LIABILITY ARISING FROM OR RELATED TO THE ORDER SHALL NOT EXCEED AN AMOUNT EQUAL TO THE TOTAL AMOUNT PAID OR PAYABLE TO SIRIUS HEREUNDER. THIS LIMITATION SHALL APPLY TO THE FULLEST EXTENT PROVIDED BY LAW, AND CUSTOMER AGREES TO RELEASE SIRIUS, ITS EMPLOYEES, AFFILIATES, AND AGENTS FROM AND AGAINST ANY AND ALL LIABILITY EXCEEDING THE LIMITS STATED IN THIS PROVISION, REGARDLESS OF THE REMEDY UNDER WHICH DAMAGES ARE SOUGHT AND NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY PROVIDED HEREIN.

8. **Applicable Law.** The Order (including these Terms) and the rights and obligations of the parties hereto shall be construed under and governed by the laws of the State of Texas, without giving effect to principles of conflict of laws.

9. **Arbitration.** EACH OF THE PARTIES TO THIS AGREEMENT WAIVES ANY RIGHT TO TRIAL BY JURY OF ANY DISPUTE OF ANY NATURE WHATSOEVER THAT MAY ARISE BETWEEN THEM, INCLUDING, BUT NOT LIMITED TO, THOSE DISPUTES RELATING TO, OR INVOLVING IN ANY WAY, THE TRANSACTIONS BETWEEN THE PARTIES, THE CONSTRUCTION, PERFORMANCE OR BREACH OF THIS AGREEMENT OR ANY OTHER AGREEMENT BETWEEN THE PARTIES, THE PROVISIONS OF ANY FEDERAL, STATE OR LOCAL LAW, REGULATION OR ORDINANCE NOTWITHSTANDING. By execution of this Agreement, each of the parties hereto acknowledges and agrees that it has had an opportunity to consult with legal counsel and that he/she/it knowingly and voluntarily waives any right to a trial by jury of any dispute pertaining to or relating in any way to the transactions contemplated by this Agreement, the provisions of any federal, state or local law, regulation or ordinance notwithstanding.





10. General. The Order (including these Terms) represents the entire and integrated agreement and understanding between the parties with respect to the attached Sirius proposal and supersedes all prior or contemporaneous understandings and agreements, whether written or oral. Neither party will be liable or deemed to be in default for any delay or failure to perform its obligations hereunder if such failure results directly or indirectly from any cause beyond its reasonable control. The Order may be executed in any number of counterparts, each of which when executed and delivered (which deliveries may be made by email or facsimile) shall be deemed to be an original, and all of which counterparts taken together shall constitute but one and the same instrument. No modification of these Terms, nor waiver of any rights hereunder, shall be valid unless in writing and signed by the party against whom the modification or waiver is sought to be enforced. The waiver of any term hereof shall in no way be construed as a waiver of any other term or breach hereof. Neither the Order nor any of its rights or duties hereunder may be assigned or transferred by Customer, unless Sirius has consented to such assignment or transfer in writing. The Order does not and is not intended to confer any rights or remedies upon any person or entity other than the parties hereto. If any provision of these Terms are held by a court of competent jurisdiction to be contrary to law or otherwise invalid or unenforceable, the remaining provisions hereof shall remain in full force and effect.

The provision of the maintenance services contained on this proposal will be controlled by the terms and conditions of the applicable manufacturer and/or maintenance provider (hereinafter the "Provider"), and may be subject to auto-renewal if so provided in the applicable terms and conditions. Sirius does not guarantee any rights of termination during the term of the maintenance services contained on this proposal or any renewal term, and all refund calculations are determined solely by the applicable Provider. In the event any or all of these maintenance services are terminated in accordance with the terms and conditions of the applicable Provider, Sirius will, at Customer's option, (1) pass through to Customer all applicable credits paid to Sirius by the applicable Provider, net any related costs, or (2) hold such applicable credits on account for future purchases by Customer. If the maintenance services contained on this proposal cover multiple hardware or software components, any discounts provided in this proposal may vary between such components, and all pricing information is confidential and proprietary information of the applicable Provider.

This Proposal is subject to the terms and conditions of the above referenced Agreement(s). Acceptance of this Proposal by an authorized representative of Catawba County will be deemed the equivalent of a Client Purchase Order, which will authorize Sirius to order the Products and Services listed in this Proposal.

Accepted by:  
Catawba County

Approved by:  
Sirius Computer Solutions, Inc.

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title of Authorized Representative

\_\_\_\_\_  
Title of Authorized Representative

\_\_\_\_\_  
Date Signed

\_\_\_\_\_  
Date Signed

Ship to Address:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Bill to Address:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



Quote Date: 01/13/16  
Expires: 02/11/2016  
Cafawba County Chassis Budgetary  
Proposal #: PR106581.2

Client Executive:  
Tom Sherry  
Phone: (828) 989-0541  
Email:  
tom.sherry@siriuscom.com

Part #	Description	Qty	Ext. Sale Price
681844-B21	HP Prod		
E5Y41A	HP BLC7000 CONFIGURE-TO-ORDER PLATINUM ENCLOSURE WITH ROHS TRIAL INSIGHT CONTROL LICENSE	1	\$4,999.00
727021-B21	HP ONEVIEW INCL 3YR 24X7 SUPP ENCLOSURE FIO BUNDLE PHYS 16 SVR LIC	1	\$12,350.65
727021-B21-0D1	HP PROLIANT BL460C GEN9 E5-V3 10GB/20GB FLEXIBLELOM CONFIGURE-TO-ORDER BLADE SERVER	4	\$8,044.00
767049-L21	FACTORY INTEGRATED	4	\$0.00
767049-B21	HP BL460C GEN9 INTEL XEON E5-2697V3 (2.6GHZ/14-CORE/35MB/145W) FIO PROCESSOR KIT	4	\$15,876.00
767049-B21-0D1	HP BL460C GEN9 INTEL XEON E5-2697V3 (2.6GHZ/14-CORE/35MB/145W) PROCESSOR KIT	4	\$13,995.76
726719-B21	FACTORY INTEGRATED	4	\$0.00
726719-B21-0D1	HP 16GB (1X16GB) DUAL RANK X4 DDR4-2133 CAS-16-16-15 REGISTERED MEMORY KIT	32	\$8,201.92
652584-B21	FACTORY INTEGRATED	32	\$0.00
652584-B21-0D1	HP 300GB 6G SAS 10K RPM SFF (2.5-INCH) SC ENTERPRISE 3YR WARRANTY HARD DRIVE	8	\$2,008.56
684214-B21	HP 300GB 6G SAS 10K 2.5IN SC ENT HDD	8	\$0.00
761871-B21	HP ETHERNET 10GB 2P 660FLB FIO ADPTR	4	\$716.00
651281-B21	HP SMART ARRAY P244BR/1GB FBWC 12GB 2-PORTS INT FIO SAS CONTROLLER	4	\$2,388.00
651281-B21-0D1	HP QMH2572 8GB FIBRE CHANNEL HOST BUS ADAPTER FOR BLADESYSTEM C-CLASS	4	\$2,093.80
AJ821B	HP FIBRE CHANNEL 8GB QMH2572 ADPTR	4	\$0.00
AJ821B-0D1	HP B-SERIES 8/24C SAN SWITCH FOR BLADESYSTEM C-CLASS	2	\$16,594.96
641146-B21	FACTORY INTEGRATED	2	\$0.00
641146-B21-0D1	HP CISCO B22HP FABRIC EXTENDER FOR BLADESYSTEM C-CLASS	2	\$17,276.96
AJ716B	HP BLC CISCO B22HP FABRIC EXT MODULE	2	\$0.00
AJ716B-0D1	HP 8GB SHORT WAVE B-SERIES SFP+ 1 PACK	8	\$1,043.36
733460-B21	FACTORY INTEGRATED	8	\$0.00
458204-B21	HP 6X 2850W PLATINUM HOT PLUG FIO POWER SUPPLY KIT	1	\$2,859.00
458204-B21-0D1	HP BLC7000 ONBOARD ADMINISTRATOR WITH KVM OPTION	1	\$792.63
413379-B21	FACTORY INTEGRATED	1	\$0.00
617520-B21	HP BLC7000 1 PH FIO POWER MODULE OPT	1	\$175.00
H7J3A3	HP BLC 6X ACTIVE COOL 200 FACTORY INTEGRATED FAN OPTION	1	\$894.00
H7J3A3-7FX	HP 3YR FOUNDATION CARE 24X7 SERVICE	1	\$0.00
H7J3A3-85J	HP C7000 ENCLOSURE SUPPORT	1	\$873.63
H7J3A3-TT8	BROCADE 4/12 AND 4/24 SAN SWITCH SUPP	2	\$2,131.64
	HP BL460C GEN9 SERVER BLADE SUPPORT	4	\$3,720.20
	Subtotal		\$117,942.97
681844-B21	HP DR		
E5Y41A	HP BLC7000 CONFIGURE-TO-ORDER PLATINUM ENCLOSURE WITH ROHS TRIAL INSIGHT CONTROL LICENSE	1	\$4,999.00
727021-B21	HP ONEVIEW INCL 3YR 24X7 SUPP ENCLOSURE FIO BUNDLE PHYS 16 SVR LIC	1	\$12,350.65
727021-B21-0D1	HP PROLIANT BL460C GEN9 E5-V3 10GB/20GB FLEXIBLELOM CONFIGURE-TO-ORDER BLADE SERVER	4	\$8,044.00
767049-L21	FACTORY INTEGRATED	4	\$0.00
767049-B21	HP BL460C GEN9 INTEL XEON E5-2697V3 (2.6GHZ/14-CORE/35MB/145W) FIO PROCESSOR KIT	4	\$15,876.00
767049-B21-0D1	HP BL460C GEN9 INTEL XEON E5-2697V3 (2.6GHZ/14-CORE/35MB/145W) PROCESSOR KIT	4	\$13,995.76
726719-B21	FACTORY INTEGRATED	4	\$0.00
726719-B21-0D1	HP 16GB (1X16GB) DUAL RANK X4 DDR4-2133 CAS-16-16-15 REGISTERED MEMORY KIT	32	\$8,201.92
652584-B21	FACTORY INTEGRATED	32	\$0.00
652584-B21-0D1	HP 300GB 6G SAS 10K RPM SFF (2.5-INCH) SC ENTERPRISE 3YR WARRANTY HARD DRIVE	8	\$2,008.56
684214-B21	HP 300GB 6G SAS 10K 2.5IN SC ENT HDD	8	\$0.00
	HP ETHERNET 10GB 2P 660FLB FIO ADPTR	4	\$716.00

Part #	Description	Qty	Ext. Sale Price
761871-B21	HP SMART ARRAY P244BR/1GB FBWC 12GB 2-PORTS INT FIO SAS CONTROLLER	4	\$2,398.00
651281-B21	HP QMH2572 8GB FIBRE CHANNEL HOST BUS ADAPTER FOR BLADESYSTEM C-CLASS	4	\$2,993.80
651281-B21-0D1	HP FIBRE CHANNEL 8GB QMH2572 ADPTR	4	\$0.00
AJ821B	HP B-SERIES 8/24C SAN SWITCH FOR BLADESYSTEM C-CLASS	2	\$16,694.98
AJ821B-0D1	FACTORY INTEGRATED	2	\$0.00
641146-B21	HP CISCO B22HP FABRIC EXTENDER FOR BLADESYSTEM C-CLASS	2	\$17,276.98
641146-B21-0D1	HP BLC CISCO B22HP FABRIC EXT MODULE	2	\$0.00
AJ716B	HP 8GB SHORT WAVE B-SERIES SFP+ 1 PACK	8	\$1,043.38
AJ716B-0D1	FACTORY INTEGRATED	8	\$0.00
733480-B21	HP 6X 2850W PLATINUM HOT PLUG FIO POWER SUPPLY KIT	1	\$2,869.00
456204-B21	HP BLC7000 ONBOARD ADMINISTRATOR WITH KVM OPTION	1	\$792.53
456204-B21-0D1	FACTORY INTEGRATED	1	\$0.00
413379-B21	HP BLC7000 1 PH FIO POWER MODULE OPT	1	\$175.00
517520-B21	HP BLC 6X ACTIVE COOL 200 FACTORY INTEGRATED FAN OPTION	1	\$884.00
H7J34A3	HP 3YR FOUNDATION CARE 24X7 SERVICE	1	\$0.00
H7J34A3-7FX	HP C7000 ENCLOSURE SUPPORT	1	\$873.63
H7J34A3-85J	BROCADE 4/12 AND 4/24 SAN SWITCH SUPP	2	\$2,131.84
H7J34A3-TT8	HP BL460C GEN9 SERVER BLADE SUPPORT	4	\$3,720.20
	Subtotal		\$117,942.97
VMware Prod			
VS6-OSTD-AK-C	VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT STANDARD ACCELERATION KIT FOR 6 PROCESSORS	1	\$9,995.00
VS6-OSTD-AK-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION VMWARE VSPHERE WITH OPERATIONS MANAGEMENT STANDARD ACCELERATION KIT FOR 6 PROCESSORS FOR 3 YEARS	1	\$10,208.24
VS6-OSTD-C-L2	VPP L2 VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT STANDARD FOR 1 PROCESSOR	2	\$3,280.60
VS6-OSTD-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT STANDARD FOR 3 YEARS	2	\$2,302.08
	Subtotal		\$26,783.92
VMware DR			
VS6-OSTD-AK-C	VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT STANDARD ACCELERATION KIT FOR 6 PROCESSORS	1	\$9,995.00
VS6-OSTD-AK-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION VMWARE VSPHERE WITH OPERATIONS MANAGEMENT STANDARD ACCELERATION KIT FOR 6 PROCESSORS FOR 3 YEARS	1	\$10,208.24
VS6-OSTD-C-L2	VPP L2 VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT STANDARD FOR 1 PROCESSOR	2	\$3,280.60
VS6-OSTD-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT STANDARD FOR 3 YEARS	2	\$2,302.08
	Subtotal		\$26,783.92
VMware SRM			
VC-SRM6-25S-C-L2	VPP L2 VMWARE VCENTER SITE RECOVERY MANAGER 6 STANDARD (25 VM PACK)	1	\$4,682.50
VC-SRM6-25S-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION FOR VMWARE VCENTER SITE RECOVERY MANAGER 6 STANDARD (25 VM PACK) FOR 3 YEARS	1	\$3,218.16
	Subtotal		\$7,900.66
Nexus 9504 Bundle Production - Justice Center			
C1-N9K-C9504-B2	Cisco ONE Nexus 9504 Chassis Bun 1 Sup3 PS2 SC6 FM3 FT	2	\$69,892.46
CON-3SNT-P-C1N9KC4B	3YR SNTC 24X7X4 Cisco ONE Nexus 9504 Chassis Bun 1 Sup3	2	\$45,948.38
N9K-C9500-P-CV	Nexus 9500 Power Supply slot cover	2	\$0.00
N9K-C9500-LC-CV	Nexus 9500 Linecard slot cover	2	\$0.00
N9K-C9500-ACK	Nexus 9500 Accessory Kit	2	\$0.00
N9K-C9504-FM	Fabric Module for Nexus 9504 chassis	12	\$0.00
N9K-C9504-FAN	Fan Tray for Nexus 9504 chassis Port-side Intake	6	\$0.00
NXOS-703I2.2	Nexus 9500 9300 3000 Base NX-OS Software Rel 7.0(3)I2(2)	2	\$0.00
CAB-C19-CBN	Cabinet Jumper Power Cord 250 VAC 16A C20-C19 Connectors	6	\$0.00

Part #	Description	Qty	Ext. Sale Price
N9K-C9504-RMK	Nexus 9504 Rack Mount Kit	2	\$0.00
N9K-SC-A	System Controller for Nexus 9500	4	\$0.00
C1F2PNEX9500K9	Cisco ONE Foundation Perpetual Nexus 9500	2	\$32,888.18
CON-ECMU-C1F2PNE9	SWSS UPGRADES Cisco ONE Foundation Perpetual Nexus 9500	2	\$22,084.52
N95-SERVICES1K9	Nexus 9500 Network Services (includes ITD)	2	\$0.00
C1-NDB-SWT-K9	Cisco ONE TapSPAN Agg ltc for 1 Cisco Nexus Switch	2	\$0.00
N95-LAN1K9	LAN Enterprise License for Nexus 9500 Platform	2	\$0.00
C1-EGW-DC-K9	Cisco ONE Energy Mgmt Perpetual Lic - 1 DC End Point	2	\$0.00
C1-PI-LFAS-N9K-K9	Cisco ONE PI Device License for LF & AS for Nexus 9K	2	\$0.00
C1-DCL-N95-K9	Cisco ONE DCNM for LAN Advanced EdL for Nexus 9500 switches	2	\$0.00
N9K-SELECT-SUP-A	PID to select Supervisor: N9K-SUP-A	2	\$0.00
N9K-SUP-A	Supervisor for Nexus 9500	2	\$0.00
N9K-SUP-A	Supervisor for Nexus 9500	2	\$10,752.68
N1K-VLCPU-98-ESSTL	Nexus 1000V Essential Edition Paper Delivery License Qty 98	2	\$0.00
N9K-SELECT-C95PAC	PID to select Power Supply: N9K-PAC-3000W-B	6	\$0.00
N9K-PAC-3000W-B	Nexus 9500 3000W AC PS Port-side Intake	6	\$0.00
N9K-X9464PX	Nexus 9500 linecard 48p 1/10G SFP+ & 4p QSFP	2	\$16,129.02
N9K-X9464PX	Nexus 9500 linecard 48p 1/10G SFP+ & 4p QSFP	2	\$10,129.02
SFP-10G-LR-S	10GBASE-LR SFP Module Enterprise-Class	36	\$36,774.36
QSFP-H40G-AOC3M	40GBASE Active Optical Cable 3m	2	\$913.98
SFP-10G-LR-S	10GBASE-LR SFP Module Enterprise-Class	36	\$36,774.36
QSFP-H40G-AOC3M	40GBASE Active Optical Cable 3m	2	\$913.98
N9K-X9464TX	Nexus 9500 linecard 48p 1/10G-T & 4p QSFP	2	\$16,129.02
C1-C2960X-48FPD-L	Catalyst 2960-X 48 GgE PoE 740W 2 x 10G SFP+ LAN Base	17	\$73,072.63
CON-3SNTP-2948FPDL	3YR SNTC 24X7X4 Cat 2960-X 48 GgE PoE 740W2x10G SFP+	17	\$31,587.02
CAB-16AWG-AC	AC Power cord 16AWG	17	\$0.00
C1FPCAT29002K9	Cisco ONE Foundation Perpetual - Catalyst 2900 48 Port	17	\$1,928.01
CON-ECMU-C1FPC292	SWSS UPGRADES C1 FND Perpetual - Cat2900 48 Port	17	\$1,233.86
C1-EGW-50-K9	Cisco ONE Energy Mgmt Perpetual Lic - 50 DO End Points	17	\$0.00
C1-ISE-BASE-48P	Cisco ONE Identity Services Engine 50 EndPoint Base Lic	17	\$0.00
C1-PI-LFAS-2K3K-K9	Cisco ONE PI Device License for LF & AS for Cat 2k 3k	17	\$0.00
WS-C3850-48PQ-S	Cisco Catalyst 3850 48 Port PoE 4x10G Uplink IP Base	1	\$6,387.85
CON-3SNTP-WSC38PQS	3YR SNTC 24X7X4 Cisco Catalyst 3850 48 Port PoE 4x10G Up	1	\$2,903.23
S3650UK9-37E	CAT3650 Universal k9 Image	1	\$0.00
PWR-C2-640WAC	640WAC Config 2 Power Supply	1	\$0.00
PWR-C2-640WAC/2	640WAC Config 2 Secondary Power Supply	1	\$510.75
CAB-TA-NA	North America AC Type A Power Cable	2	\$0.00
STACK-T2-BLANK	Type 2 Slacking Blank	1	\$0.00
SFP-H10GB-CU6M=	10GBASE-CU SFP+ Cable 6 Meter	4	\$322.68
	Subtotal		\$422,965.85
<b>Nexus 3K - DR</b>			
N3K-C3172PQ-10GE=	Nexus 3172P 48 x SFP+ and 6 QSFP+ ports	1	\$9,938.71
CON-3SNTP-N3172P10	3YR SNTC 24X7X4 Nexus 3172P 48 x SFP+	1	\$4,342.74
SFP-10G-SR=	10GBASE-SR SFP Module	2	\$1,069.88
SFP-H10GB-CU1.5M=	10GBASE-CU SFP+ Cable 1.5 Meter	4	\$215.04
	Subtotal		\$15,466.37
<b>VNX and 2x MDS Switches Prod</b>			
FLV62S6F-200	VNXE 3200 200GB FAST CACHE 25X2.5	3	\$2,838.42
V32D12AN5QT25	VNXE3200;2XSP DPE;25X2.5 DS;25X600GB 16K	1	\$8,031.84
V32-DAE-25	2U DAE WITH 25 X 2.5 INCH DRIVE SLOTS	1	\$1,089.46
V32-PWR-12	2 C13 PWRCRD W/ NEMA 5-15 PLUGS 125V 10A	3	\$0.00
V6-2S15-800	VNXE3200 600GB 16K SAS 25X2.5	1	\$283.35
V32-8GFC	ONE 4 PORT 8GB FIBRE CHANNEL IO MODULE	2	\$911.94
W-BASHW-001	BASIC HARDWARE WARRANTY	1	\$0.00
M-PREHWE-002	PREMIUM HARDWARE SUPPORT	1	\$1,177.98
WU-PREHWE-02	PREMIUM HW SUPPORT-WARR UPG	1	\$1,004.19
VNXEPERFTB	VNXE OE PER TB PERFOR FOR VNXE3200	1	\$139.40
M-PRESWE-002	PREMIUM SW SUPPORT	1	\$36.42



Part #	Description	Qty	Ext. Sale Price
W-ENHSW-001	ENHANCED SOFTWARE WARRANTY	1	\$0.00
458-000-868	VNXE3200 REMOTE PROTECTION=IC	1	\$0.00
M-PRESWE-002	PREMIUM SW SUPPORT	1	\$0.00
458-000-402	VNXE3200 FAST SUITE=IC	1	\$0.00
M-PRESWE-002	PREMIUM SW SUPPORT	1	\$0.00
458-000-400	VNXE3200 BASE DUAL SP ECOSYS=IC	1	\$1,689.38
M-PRESWE-002	PREMIUM SW SUPPORT	1	\$868.07
RP-LNX-GPL	RECOVERPOINT LINUX GPLV3 DISTRIBUTION	1	\$0.00
458-000-225	RP/EX ADV PROTECTION FOR VNXE3200 PROD	1	\$0.00
M-PRESW-001	PREMIUM SOFTWARE SUPPORT	1	\$0.00
PSINST-ESRS	ZERO DOLLAR ESRS INSTALL	1	\$0.00
PS-BAS-RCVRPT	RECOVERPOINT FIXED	1	\$8,806.73
CE-VALPAKRP	RECOVERPOINT VALUEPAK	1	\$1,411.33
	Subtotal		\$26,178.50
VNX and 2x MDS Switches DR			
FLV82S6F-200	VNXE3200 200GB FAST CACHE 25X2.6	3	\$2,838.42
V32D12AN5QT25	VNXE3200 2XSP DPE 25X2.5 DS 26X800GB 16K	1	\$8,031.84
V32-DAE-25	2U DAE WITH 25X 2.6 INCH DRIVE SLOTS	1	\$1,089.45
V32-PWR-12	2 C13 PWR CORD W/ NEMA 5-16 PLUGS 125V 10A	3	\$0.00
V6-2S15-600	VNXE3200 600GB 16K SAS 25X2.6	1	\$283.35
V32-80FC	ONE 4 PORT 8GB FIBRE CHANNEL IO MODULE	2	\$911.94
W-BASHW-001	BASIC HARDWARE WARRANTY	1	\$0.00
M-PREHWE-002	PREMIUM HARDWARE SUPPORT	1	\$1,177.84
WU-PREHWE-02	PREMIUM HW SUPPORT WARR UPG	1	\$1,004.19
VNXEPERF10	VNXE OPER TO PERFOR FOR VNXE3200	1	\$139.40
M-PRESWE-002	PREMIUM SW SUPPORT	1	\$36.42
W-ENHSW-001	ENHANCED SOFTWARE WARRANTY	1	\$0.00
458-000-868	VNXE3200 REMOTE PROTECTION=IC	1	\$0.00
M-PRESWE-002	PREMIUM SW SUPPORT	1	\$0.00
458-000-402	VNXE3200 FAST SUITE=IC	1	\$0.00
M-PRESWE-002	PREMIUM SW SUPPORT	1	\$0.00
458-000-400	VNXE3200 BASE DUAL SP ECOSYS=IC	1	\$1,689.38
M-PRESWE-002	PREMIUM SW SUPPORT	1	\$868.07
RP-LNX-GPL	RECOVERPOINT LINUX GPLV3 DISTRIBUTION	1	\$0.00
458-000-225	RP/EX ADV PROTECTION FOR VNXE3200 PROD	1	\$0.00
M-PRESW-001	PREMIUM SOFTWARE SUPPORT	1	\$0.00
PSINST-ESRS	ZERO DOLLAR ESRS INSTALL	1	\$0.00
PS-BAS-RCVRPT	RECOVERPOINT FIXED	1	\$8,806.73
CE-VALPAKRP	RECOVERPOINT VALUEPAK	1	\$1,411.33
MDS-9148S-12	MDS 9148S 16GB SWITCH 12 ACTIVE PORTS	4	\$5,039.52
MDS-SFP-8GSW	2/18 Gbps FC SHORTWAVE SWITCH SFP LC	48	\$2,772.00
MDS-PWR-US	QTY 2 9216 9120 9124 9140 POWER CORD US	4	\$0.00
W-ENHSHW-001	ENHANCED HARDWARE WARRANTY	1	\$0.00
WU-PREHWE-001	PREMIUM HARDWARE SUPPORT WARR UPG	1	\$351.53
	Subtotal		\$34,340.66
HWINFRASTRUCTURE ACTIVITY	Block of Hours - 160 Hours Estimate SOW Required		\$34,400.00
	Total		\$828,605.71

Net Shipping and Handling \$2,389.26

For Budgetary Purposes only

Unless otherwise noted, price does not include shipping, handling or applicable tax which may be added at the time of invoice. Any shipping and handling charges contained on this proposal are estimates, which may be adjusted at the time of invoice.

This proposal is valid if ordered on or before 02/11/2016.

Until Sirius receives and accepts a Purchase Order or this Purchase Authorization for the solution proposed, pricing provided in this Proposal is subject to change based on manufacturer's pricing schedule. The Products contained on this Order may be delivered to the Customer through multiple shipments based upon supplier availability, and Customer agrees to pay a partial payment of the total purchase price stated above for any such partial shipment of Products.

All of the information provided in this Proposal is considered confidential and proprietary between Sirius and Catawba County. Information enclosed in this Proposal may not be disclosed, disseminated, or otherwise revealed to any party outside of Catawba County or any party within Catawba County who is not privileged to receive such information.



## PURCHASE TERMS AND CONDITIONS

1. **Purchase Price; Payment; Taxes.** Customer agrees to pay the total purchase price as shown on the attached Sirius proposal (the "Order"), plus any applicable sales/use tax. These Purchase Terms and Conditions (the "Terms") are explicitly made a part of the Order and are hereby incorporated therein by reference. Payment is due within thirty (30) days from the date of the invoice, unless alternative terms have been agreed upon between Sirius and the client prior to the date of this proposal. Customer agrees that any payment not received by Sirius within thirty (30) days of the invoice date shall be subject to an annual interest charge of 12%, or the maximum allowed by law, whichever is less.

2. **Payment by Third Party Leasing Company.** If Customer enters into a lease agreement with a third party leasing company to finance the Order, Customer shall remain bound by these terms and conditions, except to the extent that the third party leasing company shall be obligated to pay the total purchase price of the Order. In the event the third party leasing company fails to make such payment, Customer shall make such payment, and Sirius shall convey title (where applicable) to Customer upon payment of the total purchase price of the Order.

3. **Freight Costs; Delivery.** Sirius will arrange for shipment and delivery of the Products listed in the applicable Order to the installation site. Unless specifically stated otherwise, Customer will be responsible for shipping and delivery charges. Risk of loss to the Products shall pass to Customer upon delivery at Customer's site.

4. **Title; Security Interest.** Title to each product (other than software) to be sold by Sirius hereunder shall pass to Customer upon delivery. Title to software is not being transferred and the right to use software included in the Order shall be governed by a separate license agreement between Customer and the software vendor.

5. **Returns.** No products (including Software) shall be returned to Sirius or software subscriptions cancelled by Customer without prior written approval from Sirius.

6. **Limited Warranties.** Sirius represents and warrants that, at the time each product is delivered, Sirius will be the lawful owner of such product (other than software products), free and clear from any liens and encumbrances, and will have full right, power and authority to transfer good and valid title to the same to Customer. Sirius, as the lawful/authorized reseller of the products being delivered to Customer, represents and warrants that such products will be accompanied by the applicable manufacturer's or software licensor's representations and warranties (either directly through the manufacturer/software licensor or as transferred by Sirius) in accordance with the manufacturer's/software licensor's policies. Customer agrees it is relying solely on the manufacturer's representations and warranties (except as expressly set forth above) and Sirius shall have no liability or obligations with respect to any manufacturers' representations and warranties, and any claims by Customer shall be made solely against the manufacturer.

Notwithstanding the foregoing, with respect to products that have been used and/or refurbished and therefore do not have any manufacturer's warranty, Sirius warrants that for a period of thirty (30) days immediately following the delivery of the products, such products will qualify for the manufacturer's maintenance agreement, if the products are both installed by the manufacturer and placed under the manufacturer's maintenance agreement prior to such installation within such thirty (30) day period; provided, that Customer's exclusive recourse for a breach of this warranty shall be either the repair or replacement of such refurbished equipment or a refund of the purchase price. After such thirty (30) day period, Customer assumes all liability for such products which are either defective or may be incomplete and Sirius will have no further liability or obligation with respect thereto.

As Sirius is not the manufacturer of the products listed on the Order, Customer waives any claim against Sirius based upon (i) any infringement or alleged infringement of any patent or other intellectual property rights with respect to any products sold hereunder or any software licensed by any third party or (ii) any indemnity claim or obligation made by another against Customer arising out of any such infringement or alleged infringement.

EXCEPT AS EXPRESSLY SET FORTH IN THIS SECTION, SIRIUS MAKES NO OTHER REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, TO CUSTOMER OR TO ANY OTHER PERSON OR ENTITY REGARDING PRODUCTS, SOFTWARE AND/OR SERVICES OR OTHER ITEMS PROVIDED BY SIRIUS UNDER THE ORDER OR THE RESULTS TO BE DERIVED FROM THE USE THEREOF, AND SIRIUS EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES ARISING FROM COURSE OF DEALING, USAGE OF TRADE OR COURSE OF PERFORMANCE, AND THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

7. **Limitation of Liability.** IN NO EVENT WILL SIRIUS BE LIABLE TO CUSTOMER FOR CONSEQUENTIAL, INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE, OR ANY OTHER NON-DIRECT DAMAGES INCLUDING, WITHOUT LIMITATION, LOSS OF OR DAMAGE TO DATA, LOST PROFITS OR FUTURE REVENUES, COST OF CAPITAL, LOSS OF BUSINESS REPUTATION OR OPPORTUNITY OR ANY CLAIM OR DEMAND AGAINST CUSTOMER BY ANY THIRD PARTY, HOWEVER CAUSED, WHETHER UNDER THEORY OF CONTRACT, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. SIRIUS' LIABILITY ARISING FROM OR RELATED TO THE ORDER SHALL NOT EXCEED AN AMOUNT EQUAL TO THE TOTAL AMOUNT PAID OR PAYABLE TO SIRIUS HEREUNDER. THIS LIMITATION SHALL APPLY TO THE FULLEST EXTENT PROVIDED BY LAW, AND CUSTOMER AGREES TO RELEASE SIRIUS, ITS EMPLOYEES, AFFILIATES, AND AGENTS FROM AND AGAINST ANY AND ALL LIABILITY EXCEEDING THE LIMITS STATED IN THIS PROVISION, REGARDLESS OF THE REMEDY UNDER WHICH DAMAGES ARE SOUGHT AND NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY PROVIDED HEREIN.

8. **Applicable Law.** The Order (including these Terms) and the rights and obligations of the parties hereto shall be construed under and governed by the laws of the State of Texas, without giving effect to principles of conflict of laws.

9. Arbitration. EACH OF THE PARTIES TO THIS AGREEMENT WAIVES ANY RIGHT TO TRIAL BY JURY OF ANY DISPUTE OF ANY NATURE WHATSOEVER THAT MAY ARISE BETWEEN THEM, INCLUDING, BUT NOT LIMITED TO, THOSE DISPUTES RELATING TO, OR INVOLVING IN ANY WAY, THE TRANSACTIONS BETWEEN THE PARTIES, THE CONSTRUCTION, PERFORMANCE OR BREACH OF THIS AGREEMENT OR ANY OTHER AGREEMENT BETWEEN THE PARTIES, THE PROVISIONS OF ANY FEDERAL, STATE OR LOCAL LAW, REGULATION OR ORDINANCE NOTWITHSTANDING. By execution of this Agreement, each of the parties hereto acknowledges and agrees that it has had an opportunity to consult with legal counsel and that he/she/it knowingly and voluntarily waives any right to a trial by jury of any dispute pertaining to or relating in any way to the transactions contemplated by this Agreement, the provisions of any federal, state or local law, regulation or ordinance notwithstanding.

10. General. The Order (including these Terms) represents the entire and integrated agreement and understanding between the parties with respect to the attached Sirius proposal and supersedes all prior or contemporaneous understandings and agreements, whether written or oral. Neither party will be liable or deemed to be in default for any delay or failure to perform its obligations hereunder if such failure results directly or indirectly from any cause beyond its reasonable control. The Order may be executed in any number of counterparts, each of which when executed and delivered (which deliveries may be made by email or facsimile) shall be deemed to be an original, and all of which counterparts taken together shall constitute but one and the same instrument. No modification of these Terms, nor waiver of any rights hereunder, shall be valid unless in writing and signed by the party against whom the modification or waiver is sought to be enforced. The waiver of any term hereof shall in no way be construed as a waiver of any other term or breach hereof. Neither the Order nor any of its rights or duties hereunder may be assigned or transferred by Customer, unless Sirius has consented to such assignment or transfer in writing. The Order does not and is not intended to confer any rights or remedies upon any person or entity other than the parties hereto. If any provision of these Terms are held by a court of competent jurisdiction to be contrary to law or otherwise invalid or unenforceable, the remaining provisions hereof shall remain in full force and effect.

The provision of the maintenance services contained on this proposal will be controlled by the terms and conditions of the applicable manufacturer and/or maintenance provider (hereinafter the "Provider"), and may be subject to auto-renewal if so provided in the applicable terms and conditions. Sirius does not guarantee any rights of termination during the term of the maintenance services contained on this proposal or any renewal term, and all refund calculations are determined solely by the applicable Provider. In the event any or all of these maintenance services are terminated in accordance with the terms and conditions of the applicable Provider, Sirius will, at Customer's option, (1) pass through to Customer all applicable credits paid to Sirius by the applicable Provider, net any related costs, or (2) hold such applicable credits on account for future purchases by Customer. If the maintenance services contained on this proposal cover multiple hardware or software components, any discounts provided in this proposal may vary between such components, and all pricing information is confidential and proprietary information of the applicable Provider.

Pricing for these services will be set forth in a separate Statement of Work between Customer and Sirius.

Your contract number(s), currently on file for EMC and VMware line items only, is as follows:

Agreement Type: State Contracts

Agreement Number: North Carolina EMC State Contract 204J and North Carolina VMware State Contract 208V

Sirius' standard terms and conditional apply to non-EMC and non-VMware line items on this proposal

Sirius has met the State of North Carolina's contract pricing for Cisco

This Proposal is subject to the terms and conditions of the above referenced Agreement(s). Acceptance of this Proposal by an authorized representative of Catawba County will be deemed the equivalent of a Client Purchase Order, which will authorize Sirius to order the Products and Services listed in this Proposal.



Accepted by:  
Calawba County

Approved by:  
Sirius Computer Solutions, Inc.

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title of Authorized Representative

\_\_\_\_\_  
Title of Authorized Representative

\_\_\_\_\_  
Date Signed

\_\_\_\_\_  
Date Signed

Ship to Address:

Bill to Address:

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VC-SRM6-25S-C-L2	<b>VMware SRM</b> VPP L2 VMWARE VCENTER SITE RECOVERY MANAGER 6 STANDARD (25 VM PACK)	1	\$4,582.50
VC-SRM6-25S-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION FOR VMWARE VCENTER SITE RECOVERY MANAGER 6 STANDARD (25 VM PACK) FOR 3 YEARS	1	\$3,218.16
	<b>Subtotal</b>		<b>\$7,800.66</b>

N3K-C3172PQ-10GE=  
CON-3SNTP-N3172P10  
SFP-10G-SR=  
SFP-H10GB-CU1-5M=

**Nexus 3K - DR**

Nexus 3172P 48 x SFP+ and 6 QSFP+ ports  
3YR SNTC 24X7X4 Nexus 3172P 48 x SFP  
10GBASE-SR SFP Module  
10GBASE-CU SFP+ Cable 1.5 Meter  
Subtotal

1	\$9,838.71
1	\$4,342.74
2	\$1,069.88
4	\$215.04
	<b>\$15,466.37</b>

FLV62S6F-200	VNX and 2x MDS Switches DR		
V32D12AN5QT25	VNXE 3200 200GB FAST CACHE 25X2.5	3	\$2,838.42
V32-DAE-25	VNXE3200;2XSP DPE;25X2.5 DS;25X600GB 15K	1	\$6,031.84
V32-PWR-12	2U.DAE WITH 25 X 2.5 INCH DRIVE SLOTS	1	\$1,089.45
V6-2S15-600	2 C13 PWRCRD W/ NEMA 5-15 PLUGS 125V 10A	3	\$0.00
V32-8GFC	VNXE3200 600GB 15K SAS 25X2.5	1	\$283.35
W-BASHW-001	ONE 4 PORT 8GB FIBRE CHANNEL IO MODULE	2	\$911.94
M-PREHWE-002	BASIC HARDWARE WARRANTY	1	\$0.00
WU-PREHWE-02	PREMIUM HARDWARE SUPPORT	1	\$1,177.98
VNXEPERFTB	PREMIUM HW SUPPORT-WARR UPG	1	\$1,004.19
M-PRESWE-002	VNXE OE PER TB PERFOR FOR VNXE3200	1	\$139.40
W-ENHSW-001	PREMIUM SW SUPPORT	1	\$36.42
458-000-868	ENHANCED SOFTWARE WARRANTY	1	\$0.00
M-PRESWE-002	VNXE3200 REMOTE PROTECTION=IC	1	\$0.00
458-000-402	PREMIUM SW SUPPORT	1	\$0.00
M-PRESWE-002	VNXE3200 FAST SUITE=IC	1	\$0.00
458-000-400	PREMIUM SW SUPPORT	1	\$0.00
M-PRESWE-002	VNXE3200 BASE DUAL SP ECOSYS=IC	1	\$1,589.38
RP-LNX-GPL	PREMIUM SW SUPPORT	1	\$858.07
458-000-225	RECOVERPOINT LINUX GPLV3 DISTRIBUTION	1	\$0.00
M-PRESW-001	RP/EX ADV PROTECTION FOR VNXE3200 PROD	1	\$0.00
PSINST-ESRS	PREMIUM SOFTWARE SUPPORT	1	\$0.00
PS-BAS-RCVRPT	ZERO DOLLAR ESRS INSTALL	1	\$0.00
CE-VALPAKRP	RECOVERPOINT FIXED	1	\$8,806.73
MDS-9148S-12	RECOVERPOINT VALUEPAK	1	\$1,411.33
MDS-SFP-8GSW	MDS-9148S 16GB SWITCH - 12 ACTIVE PORTS	4	\$5,038.52
MDS-PW8-US	2/4/8-GBPS FC SHORTWAVE SWITCH SFP LC	48	\$2,772.00
W-ENHHW-001	QTY 2 9216 9120 9124 9140 POWER CORD US	4	\$0.00
WU-PREHW-001	ENHANCED HARDWARE WARRANTY	1	\$0.00
	PREMIUM HARDWARE SUPPORT - WARR UPG	1	\$351.53
	Subtotal		\$34,340.55



Quote Date: 08/09/15  
Expires: 08/27/2015  
Quote 1/HP, Blades, VNXe, vSphere and SRM  
Proposal #: PR85500.1

Client Executive:  
Eric Lieblich  
Phone: (248) 225-3708  
Email:  
eric.lieblich@siriuscom.com

Part #	Description	Qty	Ext. Sale Price
681844-B21	1x HP Chassis + 4 blades - Production		
E5Y41A	HP BLC7000 PLATINUM CONFIGURE-TO-ORDER ENCLOSURE WITH ROHS TRIAL INSIGHT CONTROL LICENSE	1	\$4,423.38
727021-B21	HP ONEVIEW INCL 3YR 24X7 SUPP ENCLOSURE FIO BUNDLE PHYS 16 SVR LIC	1	\$11,168.95
727021-B21-0D1	HP PROLIANT BL460C GEN9 E5-V3 10GB/20GB FLEXIBLELOM CONFIGURE-TO-ORDER BLADE SERVER FACTORY INTEGRATED	4	\$7,117.72
767049-L21	HP BL460C GEN9 INTEL XEON E5-2697V3 (2.8GHZ/14-CORE/35MB/145W) FIO PROCESSOR KIT	4	\$0.00
767049-B21	HP BL460C GEN9 INTEL XEON E5-2697V3 (2.8GHZ/14-CORE/35MB/145W) PROCESSOR KIT	4	\$14,047.84
767049-B21-0D1	FACTORY INTEGRATED	4	\$14,047.84
728719-B21	HP 16GB (1X16GB) DUAL RANK X4 DDR4-2133 CAS-16-16-16 REGISTERED MEMORY KIT	4	\$0.00
728719-B21-0D1	FACTORY INTEGRATED	32	\$11,297.60
652604-B21-0D1	HP 300GB 6G SAS 10K 2.5IN SC ENT HDD	32	\$0.00
684214-B21	HP ETHERNET 10GB 2P 560FLB FIO ADPTR	8	\$0.00
761871-B21	HP SMART ARRAY P2448R/1GB FBWC 12GB 2-PORTS INT FIO SAS CONTROLLER	4	\$530.92
651281-B21	HP QMH2672 8GB FIBRE CHANNEL HOST BUS ADAPTER	4	\$2,120.08
651281-B21-0D1	HP FIBRE CHANNEL 8GB QMH2672 ADPTR	4	\$3,004.96
AJ821B	HP B-SERIES 8/24C SAN SWITCH FOR BLADESYSTEM C-CLASS	4	\$0.00
AJ821B-0D1	FACTORY INTEGRATED	2	\$16,824.98
641146-B21	HP CISCO B22HP FABRIC EXTENDER FOR BLADESYSTEM C-CLASS	2	\$0.00
641146-B21-0D1	HP BLC CISCO B22HP FABRIC EXT MODULE	2	\$17,341.28
AJ716B	HP 8GB SHORT WAVE B-SERIES SFP+ 1 PACK	8	\$0.00
AJ716B-0D1	FACTORY INTEGRATED	8	\$1,322.24
733460-B21	HP 6X 2650W PLATINUM HOT PLUG POWER SUPPLY KIT	1	\$0.00
456204-B21	HP BLC7000 ONBOARD ADMINISTRATOR WITH KVM OPTION	1	\$2,528.78
456204-B21-0D1	FACTORY INTEGRATED	1	\$795.48
413379-B21	HP BLC7000 1 PH FIO POWER MODULE OPT	1	\$0.00
617620-B21	HP BLC 6X ACTIVE COOL 200 FIO FAN OPT	1	\$164.86
H7J34A3	HP 3YR FOUNDATION CARE 24X7 SERVICE	1	\$791.05
H7J34A3-7FX	HP C7000 ENCLOSURE SUPPORT	1	\$0.00
H7J34A3-85J	BROCADE 4/12 AND 4/24 SAN SWTCH SUPP	1	\$876.88
H7J34A3-TT8	HP BL460C GEN9 SERVER BLADE SUPPORT	2	\$2,227.48
	Subtotal	4	\$3,867.62
			\$114,498.79
681844-B21	1x HP Chassis + 4 blades - DR		
E5Y41A	HP BLC7000 PLATINUM CONFIGURE-TO-ORDER ENCLOSURE WITH ROHS TRIAL INSIGHT CONTROL LICENSE	1	\$4,423.38
727021-B21	HP ONEVIEW INCL 3YR 24X7 SUPP ENCLOSURE FIO BUNDLE PHYS 16 SVR LIC	1	\$11,168.95
727021-B21-0D1	HP PROLIANT BL460C GEN9 E5-V3 10GB/20GB FLEXIBLELOM CONFIGURE-TO-ORDER BLADE SERVER FACTORY INTEGRATED	4	\$7,117.72
767049-L21	HP BL460C GEN9 INTEL XEON E5-2697V3 (2.8GHZ/14-CORE/35MB/145W) FIO PROCESSOR KIT	4	\$0.00
767049-B21	HP BL460C GEN9 INTEL XEON E5-2697V3 (2.8GHZ/14-CORE/35MB/145W) PROCESSOR KIT	4	\$14,047.84
767049-B21-0D1	FACTORY INTEGRATED	4	\$14,047.84
728719-B21	HP 16GB (1X16GB) DUAL RANK X4 DDR4-2133 CAS-16-16-16 REGISTERED MEMORY KIT	4	\$0.00
728719-B21-0D1	FACTORY INTEGRATED	32	\$11,297.60
652604-B21-0D1	HP 300GB 6G SAS 10K 2.5IN SC ENT HDD	32	\$0.00
684214-B21	HP ETHERNET 10GB 2P 560FLB FIO ADPTR	8	\$0.00
761871-B21	HP SMART ARRAY P2448R/1GB FBWC 12GB 2-PORTS INT FIO SAS CONTROLLER	4	\$530.92
651281-B21	HP QMH2672 8GB FIBRE CHANNEL HOST BUS ADAPTER	4	\$2,120.08

Part #	Description	Qty	Ext. Sale Price
651281-B21-0D1	HP FIBRE CHANNEL 8GB QMH2572 ADPTR	4	\$0.00
AJ821B	HP B-SERIES 8/24C SAN SWITCH FOR BLADESYSTEM	2	\$16,824.98
AJ821B-0D1	C-CLASS		
641146-B21	FACTORY INTEGRATED	2	\$0.00
641146-B21-0D1	HP CISCO B22HP FABRIC EXTENDER FOR BLADESYSTEM	2	\$17,341.26
AJ716B	C-CLASS		
AJ716B-0D1	HP BLC CISCO B22HP FABRIC EXT MODULE	2	\$0.00
733460-B21	HP 8GB SHORT WAVE B-SERIES SFP+ 1 PACK	8	\$1,322.24
458204-B21	FACTORY INTEGRATED	8	\$0.00
458204-B21-0D1	HP 6X 2650W PLATINUM HOT PLUG POWER SUPPLY KIT	1	\$2,529.78
413379-B21	HP BLC7000 ONBOARD ADMINISTRATOR WITH KVM OPTION	1	\$795.48
517520-B21	FACTORY INTEGRATED	1	\$0.00
H7J34A3	HP BLC7000 1 PH FIO POWER MODULE OPT	1	\$164.85
H7J34A3-7FX	HP BLC 6X ACTIVE COOL 200 FIO FAN OPT	1	\$791.05
H7J34A3-85J	HP 3YR FOUNDATION CARE 24X7 SERVICE	1	\$0.00
H7J34A3-TT8	HP C7000 ENCLOSURE SUPPORT	1	\$876.88
	BROCADE 4/12 AND 4/24 SAN SWITCH SUPP	2	\$2,227.48
	HP BL460C GEN9 SERVER BLADE SUPPORT	4	\$3,887.52
	Subtotal		\$114,488.79
V32D12AN6QS26	1x VNXe + 2x MDSs - Production		
V32-DAE-25	VNXe3200;2xSP DPE;25x2.5 DS;25x600GB 10K	1	\$11,791.52
FLV82S6F-200	2U DAE WITH 25 x 2.5 INCH DRIVE SLOTS	1	\$2,695.15
V6-2S10-600	VNXe 3200 200GB FAST CACHE 25X2.5	3	\$7,901.82
V32-PWR-12	VNXe 3200 600GB 10K SAS 25X2.5	6	\$3,025.44
VNXE-LS-SN	2 C13 PWRCRD W/ NEMA 5-15 PLUGS 125V 10A	3	\$0.00
456-104-909	VNXe LICENSE SOLUTION PSNT AS LAC	1	\$0.00
456-104-905	VNXE3200 FAST SUITE =IC	1	\$0.00
456-106-747	VNXE3200 BASE DUAL SP ECOSYS =IC	1	\$3,785.45
PSINST-ESRS	VNXE3200 Remote Protection=IC	1	\$0.00
M-PRESWE-002	ZERO DOLLAR ESRS INSTALL	1	\$0.00
WU-PREHWE-02	PREMIUM SW SUPPORT	1	\$2,389.09
VNXEPRFTB	PREMIUM HW SUPPORT-WARR UPG	1	\$2,477.58
V32-8GFC	VNXE OE PER TB PERFOR FOR VNXe3200	4	\$1,658.16
MDS-PW8-CAB	ONE 4 Port 8GB Fibre Channel IO Module	2	\$2,172.12
FC10M-62MLC	Qty 2 Cabinet Power Cord	2	\$0.00
MDS-9148S-12	LC/LC 62.5 FC CABLE 10M	8	\$1,270.32
M-PREHW-001	MDS-9148S 16Gb Switch - 12 active ports	2	\$5,995.14
WU-PREHW-001	PREMIUM HARDWARE SUPPORT	1	\$2,143.03
MDS-SFP-8GSW	PREMIUM HARDWARE SUPPORT - WARR UPG	1	\$831.52
	2/4/8-GBPS FC SHORTWAVE SWITCH SFP LC	24	\$3,287.28
	Subtotal		\$51,123.62
V32D12AN6QS26	1x VNXe + 2x MDSs - DR		
V32-DAE-25	VNXe3200;2xSP DPE;25x2.5 DS;25x600GB 10K	1	\$11,791.52
FLV82S6F-200	2U DAE WITH 25 x 2.5 INCH DRIVE SLOTS	1	\$2,695.15
V6-2S10-600	VNXe 3200 200GB FAST CACHE 25X2.5	3	\$7,901.82
V32-PWR-12	VNXe 3200 600GB 10K SAS 25X2.5	6	\$3,025.44
VNXE-LS-SN	2 C13 PWRCRD W/ NEMA 5-15 PLUGS 125V 10A	3	\$0.00
456-104-909	VNXe LICENSE SOLUTION PSNT AS LAC	1	\$0.00
456-104-905	VNXE3200 FAST SUITE =IC	1	\$0.00
456-106-747	VNXE3200 BASE DUAL SP ECOSYS =IC	1	\$3,785.45
PSINST-ESRS	VNXE3200 Remote Protection=IC	1	\$0.00
M-PRESWE-002	ZERO DOLLAR ESRS INSTALL	1	\$0.00
WU-PREHWE-02	PREMIUM SW SUPPORT	1	\$2,389.09
VNXEPRFTB	PREMIUM HW SUPPORT-WARR UPG	1	\$2,477.58
V32-8GFC	VNXE OE PER TB PERFOR FOR VNXe3200	4	\$1,658.16
MDS-PW8-CAB	ONE 4 Port 8GB Fibre Channel IO Module	2	\$2,172.12
FC10M-62MLC	Qty 2 Cabinet Power Cord	2	\$0.00
MDS-9148S-12	LC/LC 62.5 FC CABLE 10M	8	\$1,270.32
M-PREHW-001	MDS-9148S 16Gb Switch - 12 active ports	2	\$5,995.14
WU-PREHW-001	PREMIUM HARDWARE SUPPORT	1	\$2,143.03
	PREMIUM HARDWARE SUPPORT - WARR UPG	1	\$831.52

Part #	Description	Qty	Ext. Sale Price
MDS-SFP-8GSW	24/8-GBPS FC SHORTWAVE SWITCH SFP LC	24	\$3,297.28
	Subtotal		\$61,123.62
VS6-OSTD-C-L2	VMware vSphere Licensing - Production VPP L2 VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT STANDARD FOR 1 PROCESSOR		\$3,280.60
VS6-OSTD-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION VMWARE VSPHERE 6 2 WITH OPERATIONS MANAGEMENT STANDARD FOR 3 YEARS		\$2,302.08
VS6-OSTD-AK-C	VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT STANDARD ACCELERATION KIT FOR 6 PROCESSORS	1	\$9,995.00
VS6-OSTD-AK-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION VMWARE VSPHERE 1 WITH OPERATIONS MANAGEMENT STANDARD ACCELERATION KIT FOR 6 PROCESSORS FOR 3 YEARS	1	\$10,206.24
	Subtotal		\$25,783.92
VS6-OSTD-C-L2	VMware vSphere Licensing - DR VPP L2 VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT STANDARD FOR 1 PROCESSOR		\$3,280.60
VS6-OSTD-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION VMWARE VSPHERE 6 2 WITH OPERATIONS MANAGEMENT STANDARD FOR 3 YEARS		\$2,302.08
VS6-OSTD-AK-C	VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT STANDARD ACCELERATION KIT FOR 6 PROCESSORS	1	\$9,995.00
VS6-OSTD-AK-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION VMWARE VSPHERE 1 WITH OPERATIONS MANAGEMENT STANDARD ACCELERATION KIT FOR 6 PROCESSORS FOR 3 YEARS	1	\$10,206.24
	Subtotal		\$25,783.92
VC-SRM6-25S-C-L2	VMware SRM - Both Sites VPP L2 VMWARE VCENTER SITE RECOVERY MANAGER 6 STANDARD (25 VM PACK)	1	\$4,582.60
VC-SRM6-25S-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION FOR VMWARE VCENTER SITE RECOVERY MANAGER 6 STANDARD (25 VM PACK) FOR 3 YEARS		\$3,218.16
	Subtotal		\$7,800.66
	Total		\$390,613.32

Unless otherwise noted, price does not include shipping, handling, or applicable tax which may be added at the time of invoice.

This proposal is valid if ordered on or before 08/27/2016.

Until Sirius receives and accepts a Purchase Order or this Purchase Authorization for the solution proposed, pricing provided in this Proposal is subject to change based on manufacturer's pricing schedule. The Products contained on this Order may be delivered to the Customer through multiple shipments based upon supplier availability, and Customer agrees to pay a partial payment of the total purchase price stated above for any such partial shipment of Products.

All of the information provided in this Proposal is considered confidential and proprietary between Sirius and Catawba County. Information enclosed in this Proposal may not be disclosed, disseminated, or otherwise revealed to any party outside of Catawba County or any party within Catawba County who is not privileged to receive such information.

#### PURCHASE TERMS AND CONDITIONS

1. Purchase Price; Payment; Taxes. Customer agrees to pay the total purchase price as shown on the attached Sirius proposal (the "Order"), plus any applicable sales/use tax. These Purchase Terms and Conditions (the "Terms") are explicitly made a part of the Order and are hereby incorporated therein by reference. Payment is due within thirty (30) days from the date of the Invoice, unless alternative terms have been agreed upon between Sirius and the client prior to the date of this proposal. Customer agrees that any payment not received by Sirius within thirty (30) days of the Invoice date shall be subject to an annual interest charge of 12%, or the maximum allowed by law, whichever is less.

2. **Payment by Third Party Leasing Company.** If Customer enters into a lease agreement with a third party leasing company to finance the Order, Customer shall remain bound by these terms and conditions, except to the extent that the third party leasing company shall be obligated to pay the total purchase price of the Order. In the event the third party leasing company fails to make such payment, Customer shall make such payment, and Sirius shall convey title (where applicable) to Customer upon payment of the total purchase price of the Order.

3. **Freight Costs; Delivery.** Sirius will arrange for shipment and delivery of the Products listed in the applicable Order to the installation site. Unless specifically stated otherwise, Customer will be responsible for shipping and delivery charges. Risk of loss to the Products shall pass to Customer upon delivery at Customer's site.

4. **Title; Security Interest.** Title to each product (other than software) to be sold by Sirius hereunder shall pass to Customer upon delivery. Title to software is not being transferred and the right to use software included in the Order shall be governed by a separate license agreement between Customer and the software vendor.

5. **Returns.** No products (including Software) shall be returned to Sirius or software subscriptions cancelled by Customer without prior written approval from Sirius.

6. **Limited Warranties.** Sirius represents and warrants that, at the time each product is delivered, Sirius will be the lawful owner of such product (other than software products), free and clear from any liens and encumbrances, and will have full right, power and authority to transfer good and valid title to the same to Customer. Sirius, as the lawful/authorized reseller of the products being delivered to Customer, represents and warrants that such products will be accompanied by the applicable manufacturer's or software licensor's representations and warranties (either directly through the manufacturer/software licensor or as transferred by Sirius) in accordance with the manufacturer's/software licensor's policies. Customer agrees it is relying solely on the manufacturer's representations and warranties (except as expressly set forth above) and Sirius shall have no liability or obligations with respect to any manufacturers' representations and warranties, and any claims by Customer shall be made solely against the manufacturer.

Notwithstanding the foregoing, with respect to products that have been used and/or refurbished and therefore do not have any manufacturer's warranty, Sirius warrants that for a period of thirty (30) days immediately following the delivery of the products, such products will qualify for the manufacturer's maintenance agreement, if the products are both installed by the manufacturer and placed under the manufacturer's maintenance agreement prior to such installation within such thirty (30) day period; provided, that Customer's exclusive recourse for a breach of this warranty shall be either the repair or replacement of such refurbished equipment or a refund of the purchase price. After such thirty (30) day period, Customer assumes all liability for such products which are either defective or may be incomplete and Sirius will have no further liability or obligation with respect thereto.

As Sirius is not the manufacturer of the products listed on the Order, Customer waives any claim against Sirius based upon (i) any infringement or alleged infringement of any patent or other intellectual property rights with respect to any products sold hereunder or any software licensed by any third party or (ii) any indemnity claim or obligation made by another against Customer arising out of any such infringement or alleged infringement.

EXCEPT AS EXPRESSLY SET FORTH IN THIS SECTION, SIRIUS MAKES NO OTHER REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, TO CUSTOMER OR TO ANY OTHER PERSON OR ENTITY REGARDING PRODUCTS, SOFTWARE AND/OR SERVICES OR OTHER ITEMS PROVIDED BY SIRIUS UNDER THE ORDER OR THE RESULTS TO BE DERIVED FROM THE USE THEREOF, AND SIRIUS EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES ARISING FROM COURSE OF DEALING, USAGE OF TRADE OR COURSE OF PERFORMANCE, AND THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

7. **Limitation of Liability.** IN NO EVENT WILL SIRIUS BE LIABLE TO CUSTOMER FOR CONSEQUENTIAL, INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE, OR ANY OTHER NON-DIRECT DAMAGES INCLUDING, WITHOUT LIMITATION, LOSS OF OR DAMAGE TO DATA, LOST PROFITS OR FUTURE REVENUES, COST OF CAPITAL, LOSS OF BUSINESS REPUTATION OR OPPORTUNITY OR ANY CLAIM OR DEMAND AGAINST CUSTOMER BY ANY THIRD PARTY, HOWEVER CAUSED, WHETHER UNDER THEORY OF CONTRACT, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. SIRIUS' LIABILITY ARISING FROM OR RELATED TO THE ORDER SHALL NOT EXCEED AN AMOUNT EQUAL TO THE TOTAL AMOUNT PAID OR PAYABLE TO SIRIUS HEREUNDER. THIS LIMITATION SHALL APPLY TO THE FULLEST EXTENT PROVIDED BY LAW, AND CUSTOMER AGREES TO RELEASE SIRIUS, ITS EMPLOYEES, AFFILIATES, AND AGENTS FROM AND AGAINST ANY AND ALL LIABILITY EXCEEDING THE LIMITS STATED IN THIS PROVISION, REGARDLESS OF THE REMEDY UNDER WHICH DAMAGES ARE SOUGHT AND NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY PROVIDED HEREIN.

8. **Applicable Law.** The Order (including these Terms) and the rights and obligations of the parties hereto shall be construed under and governed by the laws of the State of Texas, without giving effect to principles of conflict of laws.

9. **Arbitration.** EACH OF THE PARTIES TO THIS AGREEMENT WAIVES ANY RIGHT TO TRIAL BY JURY OF ANY DISPUTE OF ANY NATURE WHATSOEVER THAT MAY ARISE BETWEEN THEM, INCLUDING, BUT NOT LIMITED TO, THOSE DISPUTES RELATING TO, OR INVOLVING IN ANY WAY, THE TRANSACTIONS BETWEEN THE PARTIES, THE CONSTRUCTION, PERFORMANCE OR BREACH OF THIS AGREEMENT OR ANY OTHER AGREEMENT BETWEEN THE PARTIES, THE PROVISIONS OF ANY FEDERAL, STATE OR LOCAL LAW, REGULATION OR ORDINANCE NOTWITHSTANDING. By execution of this Agreement, each of the parties hereto acknowledges and agrees that it has had an opportunity to consult with legal counsel and that he/she/it knowingly and voluntarily waives any right to a trial by jury of any dispute pertaining to or relating in any way to the transactions contemplated by this Agreement, the provisions of any federal, state or local law, regulation or ordinance notwithstanding.



10. General. The Order (including these Terms) represents the entire and integrated agreement and understanding between the parties with respect to the attached Sirius proposal and supersedes all prior or contemporaneous understandings and agreements, whether written or oral. Neither party will be liable or deemed to be in default for any delay or failure to perform its obligations hereunder if such failure results directly or indirectly from any cause beyond its reasonable control. The Order may be executed in any number of counterparts, each of which when executed and delivered (which deliveries may be made by email or facsimile) shall be deemed to be an original, and all of which counterparts taken together shall constitute but one and the same instrument. No modification of these Terms, nor waiver of any rights hereunder, shall be valid unless in writing and signed by the party against whom the modification or waiver is sought to be enforced. The waiver of any term hereof shall in no way be construed as a waiver of any other term or breach hereof. Neither the Order nor any of its rights or duties hereunder may be assigned or transferred by Customer, unless Sirius has consented to such assignment or transfer in writing. The Order does not and is not intended to confer any rights or remedies upon any person or entity other than the parties hereto. If any provision of these Terms are held by a court of competent jurisdiction to be contrary to law or otherwise invalid or unenforceable, the remaining provisions hereof shall remain in full force and effect.

The provision of the maintenance services contained on this proposal will be controlled by the terms and conditions of the applicable manufacturer and/or maintenance provider (hereinafter the "Provider"), and may be subject to auto-renewal if so provided in the applicable terms and conditions. Sirius does not guarantee any rights of termination during the term of the maintenance services contained on this proposal or any renewal term, and all refund calculations are determined solely by the applicable Provider. In the event any or all of these maintenance services are terminated in accordance with the terms and conditions of the applicable Provider, Sirius will, at Customer's option, (1) pass through to Customer all applicable credits paid to Sirius by the applicable Provider, net any related costs, or (2) hold such applicable credits on account for future purchases by Customer. If the maintenance services contained on this proposal cover multiple hardware or software components, any discounts provided in this proposal may vary between such components, and all pricing information is confidential and proprietary information of the applicable Provider.

This Proposal is subject to the terms and conditions of the above referenced Agreement(s). Acceptance of this Proposal by an authorized representative of Catawba County will be deemed the equivalent of a Client Purchase Order, which will authorize Sirius to order the Products and Services listed in this Proposal.

Accepted by:  
Catawba County

Approved by:  
Sirius Computer Solutions, Inc.

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title of Authorized Representative

\_\_\_\_\_  
Title of Authorized Representative

\_\_\_\_\_  
Date Signed

\_\_\_\_\_  
Date Signed

Ship to Address:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Bill to Address:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



VS6-OSTD-C-L2	VMware vSphere Licensing - DR VPP L2 VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT STANDARD FOR 1 PROCESSOR	\$3,280.60
VS6-OSTD-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION VMWARE VSPHERE 6 2 WITH OPERATIONS MANAGEMENT STANDARD FOR 3 YEARS	\$2,302.08
VS6-OSTD-AK-C	VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT 1 STANDARD ACCELERATION KIT FOR 6 PROCESSORS	\$9,995.00
VS6-OSTD-AK-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION VMWARE VSPHERE 1 WITH OPERATIONS MANAGEMENT STANDARD ACCELERATION KIT FOR 6 PROCESSORS FOR 3 YEARS	\$10,206.24
	<b>Subtotal</b>	<b>\$25,783.92</b>



**WAYNE J.  
GRIFFIN ELECTRIC  
INC.**

116 Hopping Brook Road, Holliston, MA 01746  
(508) 429-8830 FAX (508) 429-9251

**PURCHASE ORDER  
FOR SYSTEMS WITH LABOR**

MAIL INVOICES TO: ACCOUNTS PAYABLE DEPT.  
116 Hopping Brook Road  
Holliston, MA 01746

All other communications to PURCHASING DEPT.

PURCHASE ORDER NO.	044233
REVISION NO.	00
JOB NO.	08189-00-13
VENDOR ID:	LIECO-001

ALL PACKING SLIPS, PKGS. & INVOICES MUST BE  
MARKED WITH ABOVE P.O. AND JOB NUMBERS.

**SELLER COPY**

TO: Liebert Corporation  
c/o J.G. Blackmon & Associates, Inc.  
1601 Cross Beam Drive  
Charlotte, NC 28217  
Attn: Dale Bass  
Email: dbass@jgblackmon.com  
Tel. (704) 364-8877

SHIP TO: Job: Catawba County Public Safety Center  
c/o Wayne J. Griffin Electric, Inc.  
100-B Southwest Boulevard  
Newton, NC 28658  
Attn: Bob Harris

CONFIRM TO:

PAGE 1 OF 2

ORDER DATE	TERMS	SHIP VIA	F.O.B. POINT	BUYER			
9/2/2014	Net 30 Days	Best Way	Destination	Brian K. Kingman			
LINE	TYPE	DESCRIPTION	QUANTITY	PRICE	U/M	TAX?	EXT. PRICE
1		IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS FURNISH ALL REQUIRED ITEMS TO FORM A COMPLETE AND OPERATIONAL UPS SYSTEM AS DESIGNED					
2		ORDER IS HOLD FOR RELEASE PENDING APPROVAL					
3		ORDER INCLUDES THE FOLLOWING PER PROPSAL 13-639					
4		LIEBERT NX SINGLE MODULE UPS 81 KVA 480V / 120-208V	1		B		
5		AUTOMATIC CONTINUOUS DUTY STATIC TRANSFER SWITCH	1		B		
6		INTERNAL MANUAL BYPASS SWITCH	1		B		
7		LCD GRAPHIC DISPLAY	1		B		
8		LOCAL BPO	1		B		
9		INTELLISLOT COMMUNICATION PORTS	3		B		
10		SEISMIC FLOOR ANCHOR KIT	1		B		
11		INTELLISLOT RELAY CONTACT INTERFACE KIT	1		B		
12		INTELLISLOT WEB CARD I.B	1		B		
13		LIEBERT BATTERY SYSTEM 240 MINUTES AT 80KVA FULL LOAD	1		B		
14		LIEBERT BYPASS DISTRIBUTION CABINET	1		B		
15		LOT EQUIPMENT			Lot	Y	\$ 154,173.00
16		START-UP - TRAIN			Lot	N	\$ 2,257.00
17		COMMISIONING TEST PACKAGE			Lot	N	\$ 5,950.00
EXHIBITS AND ATTACHMENTS INCORPORATED BY REFERENCE:							
Exhibit A - Insurance Requirements/Sample Certificate							
Exhibit B - Information Sheet							
Exhibit G - Other Contract Documents							
SELLER SHALL BE RESPONSIBLE FOR ENSURING THAT ALL GOODS SUPPLIED UNDER THIS PURCHASE ORDER MEET ALL OF THE ESSENTIAL CRITERIA FOR SAID GOODS AS DEFINED IN ALL APPLICABLE DRAWINGS AND SPECIFICATIONS AND FINAL ACCEPTANCE OF SAID GOODS BY BUYER IS CONDITIONED UPON FINAL ACCEPTANCE OF SAID GOODS BY END-USER.				EXTENDED TOTAL: \$ 162,380.00			
				TAXABLE TOTAL: \$ 154,173.00			
				SALES TAX AT 7.00%: \$ 10,792.11			
				PURCHASE ORDER TOTAL: \$ 173,172.11			

**SELLER ACKNOWLEDGEMENT**

This order is accepted under all terms and conditions under which it was issued.

The Equal Opportunity and Affirmative Action clauses of 41 CFR 60-1.4(a), 60-250.4 and 60.741.4 are incorporated herein by reference.

Accepted by: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

By:  Purchasing Agent, WAYNE J. GRIFFIN ELECTRIC, INC.

## PURCHASE ORDER

TERMS AND CONDITIONS

1. This Purchase Order shall be signed and returned immediately by Seller. In the event that the Seller does not sign and return, it shall be understood that Seller agrees to and accepts this Purchase Order and all exhibits unless exception to same is received by Buyer within five (5) business days from receipt of this Purchase Order.
2. It is agreed that details relating to release and shipment of materials or equipment, hereinafter referred to as goods, shall be specified by the Buyer, not the Seller. If this purchase order includes drawings and specifications, Seller agrees to make, manufacture and deliver goods according to the Buyer's drawings and specifications. The cash discount period, when applicable, shall begin when the material or invoice is received, whichever is later, provided the discount period will be extended during any delay caused by errors in invoices necessitating correction. All prices listed on this purchase order shall be considered as firm pricing unless escalation is expressly agreed to in writing by the Buyer.
3. Time of delivery is of the essence of this contract. Buyer reserves the right to refuse any goods and to cancel all or any part of the goods not conforming to applicable orders, specifications, drawings, samples or descriptions. Acceptance of any part of the order shall not bind Buyer to accept future shipments, nor deprive him of the right to return goods already accepted. No substitution of materials or extra charges will be recognized unless agreed to in writing by the Buyer.
4. Seller agrees to pay for packing, loading, taxes, and freight on all materials specified in this order, unless otherwise agreed to in writing by the Buyer.
5. Any specifications, drawings, notes, instructions, engineering notices or technical data referred to in the contract shall be deemed incorporated by reference as if fully set forth. If a discrepancy or question shall arise, Seller shall refer and defer to Buyer for decisions, instructions and interpretations.
6. Seller shall not assign this order, nor any monies due or to become due hereunder, without the Buyer's prior written consent and any attempted assignment without such consent of the Buyer shall be void.
7. Seller shall make no change, modification or waiver of terms to this order without the Buyer's written consent. The Buyer may, at his sole discretion, alter orders, quantities, or specifications as may be required. If no advance pricing agreement was made, an equitable adjustment shall be made in the price subject to the terms of this agreement.
8. Buyer may, at his option, and at any time including after the goods are delivered, inspect the goods, reject the goods, and/or revoke acceptance of the goods and at any time elect to cancel all or any part of this order. Upon notice of such cancellation, Seller shall discontinue all work pertaining to this order. Cancellation payment, if any, shall be mutually agreed to by the Buyer and Seller. Payment shall be based on merchandise delivered on work completed through the date of the cancellation notice. Seller shall not be entitled to any prospective profits or damages because of cancellation. Seller's damages shall be bound by the terms of this agreement including all limitations thereto.
9. In the event of default by the Seller in the performance of any obligation herein, including time of delivery or completion or quality of goods, Buyer may, at his option, cancel this purchase order without penalty or liability and reject the goods and/or revoke acceptance of the goods. Seller shall be liable to Buyer for all costs and damages allowed by law, including consequential and incidental damages such as loss of profit, right of cover, and costs in excess of the order price that are incurred by the Buyer in effecting completion of performance. All remedies of Buyer are cumulative and are in addition to Buyer's other rights and remedies at law. Risk of loss of the goods shall not pass until actual receipt and acceptance of the goods by the Buyer.
10. Seller represents and warrants that the goods supplied under this contract are merchantable and are fit for the express purpose and the ordinary purpose for which such goods are used. All goods shall be adequately contained, packaged and labeled and shall conform to all promises, samples, catalogues, description and statements made by the Seller. The goods shall be free from defects in design, quality, material and workmanship. Said goods must conform to the Buyer's specifications and satisfaction. This warranty shall survive inspection, delivery, acceptance, or payment for the goods. Seller agrees to replace, without cost to the Buyer, any goods defective in design, quality, material or workmanship. Seller warrants that title conveyed is free from all claims, security interests, and liens. This warranty may not be limited unless agreed to in writing signed by the Buyer.
11. Seller agrees to pay, discharge and hold Buyer harmless from all liens, claims, suits, and patent infringements which may occur out of or have connections with this order. Seller agrees that there are no disclaimers of warranty and that there are no limitations of liability for breach of warranty.
12. Seller shall observe and comply with all applicable laws, ordinances, codes and regulations including the Occupational Safety and Health Act, and shall indemnify Buyer against all liabilities, fines and penalties for any violation of such laws, ordinances, codes and regulations.
13. Materials and equipment supplied in error or in excess of the amount ordered herein may be returned to the Seller. Seller shall pay all shipping and return freight costs and shall issue credits to offset any billings.
14. The liability of the Buyer to the Seller is strictly and solely limited to the initial payment, if any, on the execution of the contract and the Seller must look solely to his rights to the goods sold for the unpaid balances by withholding delivery, stopping delivery or by reclaiming the goods. There are no other damages or liability of Buyer to Seller.
15. The Buyer's purchase order and documents made part hereof by reference constitute the entire agreement and supersede all prior, contemporaneous and subsequent proposals and discussions. By shipping the goods, by acknowledging receipt of this order, or by performing the above work, Seller unconditionally agrees to the terms and conditions of sale set forth by the Buyer. Any different or additional terms from the Seller are hereby objected to, unless the Seller, within ten (10) days of receiving this contract, notifies the Buyer, in writing, of his specific objections and the Buyer, in writing, assents to the Seller's changes, otherwise the Seller will be deemed to have assented to all the terms in the purchase order and documents without any modification, rescission or waiver. The parties intend this writing as the final and sole expression of their agreement and as a complete and exclusive statement of the terms of the agreement.
16. Buyer may reject or revoke acceptance of non-conforming goods without stating the particular defect and Buyer shall not be required, but shall have a right, at Buyer's sole discretion, to accept replacement or substitutes or to permit the cure of defects in any goods rejected. Buyer has no obligation to care for, be responsible for, or preserve rejected goods, and goods held after revocation of acceptance or goods held in dispute.
17. If on-site labor efforts are required, Seller shall be required to provide Buyer with proof of insurance by delivering to Buyer a Certificate of Insurance evidencing the types and amounts of coverages indicated on the "sample" Certificate of Insurance attached to this Purchase Order as Exhibit A. Buyer shall be named as Certificate Holder and Additional Insured on the Certificate of Insurance. Payment will not be made under this Purchase Order without receipt by Buyer of a Certificate of Insurance in compliance with these requirements.
18. This contract shall be governed and interpreted in accordance with the laws of the Commonwealth of Massachusetts.

**EMERSON**  
Network Power

Liebert Corp  
810 Executive Campus Dr.  
Westerville, OH 43082

Fed Tax ID 31-0715256

**ORIGINAL**

<b>INVOICE</b>	
<b>CUSTOMER NUMBER</b>	<b>INVOICE NO.</b>
150064902	57243791
<b>INVOICE DATE</b>	<b>DUE DATE</b>
29-MAR-16	28-APR-16
<b>PAYMENT TERMS</b>	
30 NET	
<b>PLEASE REMIT TO:</b>	
Liebert Corp PO Box 70474 Chicago, IL 60673	

**BILL TO:**

E0015X 10015 D1681608810 P3188518 0001:0001

**SHIP TO:**

CATAWBA COUNTY PUBLIC SAFETY CENTER  
C/O WAYNE J GRIFFIN ELECTRIC  
100-B SOUTHEAST BLVD  
NEWTON NC 28658

GRIFIN WAYNE J ELECTRIC CO  
ATTN: ACCOUNTS PAYABLE  
116 HOPPING BROOK RD  
HOLLISTON MA 01746-1455

<b>ORDER NUMBER</b>	<b>ORDER DATE</b>	<b>CUSTOMER P.O. NUMBER</b>	<b>DELIVERY TERMS</b>
CN2034857	17-FEB-16	044233 JOB # 08189-00-13	FOB ORIGIN
<b>SALES OFFICE</b>	<b>PROJECT NAME</b>	<b>LEGACY INVOICE #</b>	<b>CONTACT NAME</b>
JG BLACKMON & ASSOCIATES	CATAWBA COUNTY PUBLIC SA	CI0002167019	
<b>TAX EXEMPT</b>	<b>NO</b>		
<b>ITEM NUMBER/DESCRIPTION</b>	<b>QUANTITY ORDERED</b>	<b>QUANTITY SHIPPED</b>	<b>TAX AMOUNT</b>
38SA081A0A00\UPS NX 80 KVA 480V SOFTSCALE	1	1	
SN# 2101200300215C040008			
FFA12C5NNG68857\BDC125 480-208/120 300A CBO	1	1	
SUNX120VL1U7\IS/U7X24NX VAL 80-120KVA	1	1	
IS-RELAY\KIT IS-RELAY	1	1	
IS-WEBLB\KIT IS-WEBLB	1	1	
CTD\CTD	1	1	
540660G1\FLOOR ANCHOR KIT NX FPC-BDC	2	2	
OTHSRV\OTHER SERVICES CHARGE*UPS	1	1	
<div style="border: 2px solid black; padding: 10px; display: inline-block;"> <b>APPROVED</b>  By Mike Burke at 3:40:19 PM, 04/27/2016 </div>			
<b>CARRIER: CH ROBINSN</b>		<b>BILL-OF-LADING: 198948880</b>	<b>FREIGHT WEIGHT: 00003355.000</b>
<b>SHIP DATE: 29-MAR-16</b>			
<b>Vendor #</b>	<b>Contract</b>		
<b>Due Date</b>			
<b>Date Rec'd</b>	APR - 4 2016		
<b>PO /Job /GI</b>			
<b>Discount</b>			
<b>GO FROM GETTING A STATEMENT TO MAKING A STATEMENT</b> Receive your invoices faster and help save the environment by enrolling in our free e-billing/invoicing service. Invoices			

Visit [www.EmersonNetworkPower.com/TermsandConditions](http://www.EmersonNetworkPower.com/TermsandConditions) for Complete Terms.

The seller represents it has fully complied with the provisions of the Fair Labor Standards Act of 1938 as amended, in the manufacture of goods covered by this invoice.

If you need assistance with this invoice or would like to pay with a credit card please call our A/R dept. at 1 800 882-6474



<b>SUBTOTAL</b>	81,525.14
<b>SALES TAX</b>	5,706.76
<b>FREIGHT/HANDLING</b>	
<b>AMOUNT DUE USD</b>	87,231.90

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USE THIS ENROLLMENT CODE:

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0001:0001

**EMERSON**  
Network Power

Liebert Corp  
610 Executive Campus Dr.  
Westerville, OH 43082

Fed Tax ID 31-0715256

**ORIGINAL**

<b>INVOICE</b>	
<b>CUSTOMER NUMBER</b>	<b>INVOICE NO.</b>
150064902	57229887
<b>INVOICE DATE</b>	<b>DUE DATE</b>
24-FEB-16	25-MAR-16
<b>PAYMENT TERMS</b>	
30 NET	
<b>PLEASE REMIT TO:</b>	
Liebert Corp PO Box 70474 Chicago, IL 60673	

**BILL TO:**

2782 1 A18 0.439 E0098X 0158 D1644622365 P3125234 0001:0001



GRiffin WAYNE J ELECTRIC CO  
ATTN: ACCOUNTS PAYABLE  
116 HOPPING BROOK RD  
HOLLISTON MA 01746-1455

**SHIP TO:**

CATAWBA COUNTY PUBLIC SAFETY CENTER  
C/O WAYNE J GRIFFIN ELECTRIC  
100-B SOUTHEAST BLVD  
NEWTON NC 28650

ORDER NUMBER	ORDER DATE	CUSTOMER P.O. NUMBER	DELIVERY TERMS		
CN2034857	17-FEB-16	044233 JOB # 08189-00-13	FOB ORIGIN		
SALES OFFICE	PROJECT NAME	LEGACY INVOICE #	CONTACT NAME	TAX EXEMPT	
JG BLACKMON & ASSOCIATES	CATAWBA COUNTY PUBLIC SA	CI0002163591		NO	
ITEM NUMBER/DESCRIPTION	QUANTITY ORDERED	QUANTITY SHIPPED	TAX AMOUNT	UNIT PRICE	EXTENDED AMOUNT
NXRMPWX REMOTE MONITORING PANEL	1	1			
CARRIER: FEDEX GRND BILL-OF-LADING: 900163531146479 FREIGHT WEIGHT: 00000016.000 SHIP DATE: 24-FEB-16					

Vendor # \_\_\_\_\_ Entered \_\_\_\_\_  
Due Date \_\_\_\_\_

MAR - 1 2016

PU/JOB/GL \_\_\_\_\_  
Discount \_\_\_\_\_ Code \_\_\_\_\_

APPROVED

By Mike Burke at 8:03:35 AM, 03/29/2016

Vendor # \_\_\_\_\_ Entered \_\_\_\_\_  
Due Date \_\_\_\_\_  
MAR - 1 2016  
PU/JOB/GL \_\_\_\_\_  
Discount \_\_\_\_\_ Code \_\_\_\_\_

**APPROVED**  
By Mike Burke at 8:03:35 AM, 03/29/2016



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The seller represents it has fully complied with the provisions of the Fair Labor Standards Act of 1938 as amended, in the manufacture of goods covered by this invoice.

If you need assistance with this invoice or would like to pay with a credit card please call our A/R dept. at 1 800 882-6474



<b>SUBTOTAL</b>	579.24
<b>SALES TAX</b>	40.54
<b>FREIGHT/HANDLING</b>	
<b>AMOUNT DUE USD</b>	619.78

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0001:0001

# EMERSON

Network Power

Liebert Corp  
610 Executive Campus Dr.  
Westerville, OH 43082

Fed Tax ID 31-0715256  
D&B 004309647

ORIGINAL

<b>CUSTOMER NUMBER</b>	<b>INVOICE NO.</b>
150064902	57244713
<b>INVOICE DATE</b>	<b>DUE DATE</b>
30-MAR-16	29-APR-16
<b>PAYMENT TERMS</b>	
30 NET	
<b>PLEASE REMIT TO:</b>	
Liebert Corp PO Box 70474 Chicago, IL 60673	

**BILL TO:**

5517 1 MB 0.439 E0160X 10267 01682913231 P3190783 0001:0001

**SHIP TO:**

CATAWBA COUNTY PUBLIC SAFETY CENTER  
C/O WAYNE J GRIFFIN ELECTRIC  
100-B SOUTHEAST BLVD  
NEWTON NC 28658

GRIFFIN WAYNE J ELECTRIC CO  
ATTN: ACCOUNTS PAYABLE  
116 HOPPING BROOK RD  
HOLLISTON MA 01746-1455

<b>ORDER NUMBER</b>	<b>ORDER DATE</b>	<b>CUSTOMER P.O. NUMBER</b>	<b>DELIVERY TERMS</b>
CN2034857	17-FEB-16	044233 JOB # 08189-00-13	FOB ORIGIN
<b>SALES OFFICE</b>	<b>PROJECT NAME</b>	<b>LEGACY INVOICE #</b>	<b>CONTACT NAME</b>
JG BLACKMON & ASSOCIATES	CATAWBA COUNTY PUBLIC SA	CI0002167176	
<b>TAX EXEMPT</b>	NO		
<b>ITEM NUMBER/DESCRIPTION</b>	<b>QUANTITY ORDERED</b>	<b>QUANTITY SHIPPED</b>	<b>TAX AMOUNT</b>
NXBIB\WX480V EXT BATTERY INTERFACE	1	1	
CARRIER: FEDEX GRND BILL-OF-LADING: 900153531148367 FREIGHT WEIGHT: 00000013.600 SHIP DATE: 30-MAR-16			
<div style="border: 2px solid black; padding: 10px; display: inline-block;"> <h2 style="margin: 0;">APPROVED</h2> <p style="margin: 0;">By Mike Burke at 3:40:26 PM, 04/27/2016</p> </div>			
APR - 4 2016			
PO/Job/GL			



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The seller represents it has fully complied with the provisions of the Fair Labor Standards Act of 1938 as amended, in the manufacture of goods covered by this invoice.

If you need assistance with this invoice or would like to pay with a credit card please call our A/R dept. at 1 800 882-6474



<b>SUBTOTAL</b>	387.90
<b>SALES TAX</b>	27.16
<b>FREIGHT/HANDLING</b>	
<b>AMOUNT DUE USD</b>	415.06

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Page 1 of 1

**North Carolina 911 Board**  
**PSAP Revenue-Expenditure Report**  
**For the period July 1, 2014 - June 30, 2015 (SFY15)**  
**Modified Accrual**

911 Approved Fund balance June 30, 2014 \$2,514,474.45

June 30, 2012 Ending Fund Balance-Approved by the North Carolina 911 Board for PSAP Revenue-Expenditure Report period July 1, 2014 - June 30, 2015 (FY2015)

03082016 Marsha Tapler -changed to reflect revenues actually sent to PSAP. Sent email to JJarrett to update records. No need to resign form.

Revenue \$436,843.00

911 revenue received from the North Carolina 911 Board representing 911 service fee collections made during the period July 1, 2014 - June 30, 2015 (FY2015) Modified Accrual

Interest \$18,792.02


Interest earned on the Emergency Telephone System Fund (911) between July 1, 2014 - June 30, 2015 (FY2015)

Expenditures \$754,160.50

Total expenditures made in compliance with eligible 911 fund uses between July 1, 2014 - June 30, 2015 (FY2015) as listed on the detailed expenditure total page.

Emergency Telephone System Fund Balance June 30, 2015 \$2,215,948.97


Grant Fund Revenue (only revenues sent for reimbursement should be listed)	\$0.00
Grant Fund Expenditures	\$0.00

PSAP Director <u>Brian A. Drum</u>	<u>100B Southwest Blvd</u>
Name	STREET address
<u></u>	<u>Newton NC</u>
Signature	City, State
<u>badrum@catawbacountync.gov</u>	<u>828-465-8330</u>
E-Mail	Phone

As Finance Officer for Catawba County, I Jeanne C. Jarrett

(Governing Unit) Name

certify that I have written or reviewed this Revenue/Expenditure Report and that all the information in the report is true and correct as of this date.

<u></u>	<u>2-17-2016</u>
Signature	Date
<u>jjarrett@catawbacountync.gov</u>	<u>828-465-8219</u>
E-Mail	Phone

**Attachment – 7**

**Question – 12**



CONTRACT NO. 26-15-0937

**CATAWBA COUNTY / HICKORY POLICE DEPARTMENT SHARED E-911  
TELEPHONE SYSTEM**

**MEMORANDUM OF UNDERSTANDING**

This Memorandum of Understanding (MOU) is entered into this 1<sup>st</sup> day of January, 2015 by and between Catawba County, Primary 911 Public Safety Answering Point (PSAP) for Catawba County, and Hickory Police Department, a Secondary PSAP for police 911 calls in the City of Hickory.

WHEREAS, the installation of an Enhanced 911 system provides one common number for a caller to call to receive emergency public safety assistance from the appropriate emergency response agency; and

WHEREAS, Catawba County owns and houses a redundant, two-sided Cassidian Sentinel 4 E-911 system capable of processing voice and data. The Cassidian Sentinel 4 E-911 system is a geo-diverse telephone system that addresses diversity, redundancy and resiliency that is needed for a 911 system; and

WHEREAS, Hickory Police Department is a Secondary PSAP to Catawba County and receives transferred 911 calls and data from Catawba County via the 911 telephone system for police calls within the City of Hickory; and

WHEREAS, the current 911 telephone switch operated by Hickory Police Department will no longer be supported by the manufacturer at the conclusion of calendar year 2014 and is in need of replacement; and

WHEREAS, Catawba County's system is divided into two independent halves that function as one system until one side has a failure. At the point of failure, the side unaffected continues to work independently. Currently both sides of the system are installed and co-located in the Catawba County Justice Center. The system would be more effective if the two sides were not located in the same facility. It has been agreed upon by both Hickory Police Department and Catawba County that relocating one side of the Cassidian Sentinel 4 system to Hickory Police Headquarters would be mutually beneficial to both agencies and the public with regard to cost, functionality and redundancy in the event of a catastrophic event or equipment failure at either one of the two locations.

**A. PURPOSE:**

The purpose of this MOU is to establish roles and responsibilities between Catawba County and Hickory Police Department for the relocation, installation and sharing of one side of the Catawba County Cassidian Sentinel 4 Next Generation E911 system.

COPY

Catawba County and Hickory Police Department agree that Hickory Police Department will serve as the Back-Up PSAP for Catawba County. Details of a back-up PSAP plan will be jointly developed and incorporated into a separate agreement by December 31, 2015.

**B. ROLES AND RESPONSIBILITIES:**

1. Catawba County agrees to the relocation of the redundant side (Side B) of its Cassidian Sentinel 4 E911 system from its facility located at the Catawba County Justice Center (100B Southwest Boulevard, Newton, NC 28658) to the Hickory Police Headquarters facility, located at 347 2<sup>nd</sup> Ave. SW, Hickory, NC.
2. Hickory Police Department agrees to contract with and utilize Wireless Communications, based in Charlotte, NC to facilitate the move and installation of Side B of the Catawba County Cassidian Sentinel 4 system and all associated equipment. In addition, Hickory Police Department will pay all costs associated with the move as well as purchasing and having installed all necessary equipment from Wireless Communications to ensure Side B of the system is fully functional and integrated with Side A. In addition, Hickory Police Department will purchase from and/or have Wireless Communications install the following to make the system functional:
  - (4) Cassidian Sentinel 4 Workstations with CDR Licenses for ECaTS and software support
  - (4) 19" Touchscreen Monitors
  - (4) Keypads
  - All recommended spare parts
  - Installation and shipping relating to the move and turn-key installation of Side B
  - Remote FE Support
  - Call Taker and Administrator Training for HPD staff
  - 24X7 Remote Monitoring and Diagnostics for the HPD (Side B) yearly
3. Hickory Police Department agrees to provide Wireless Communications' technician(s) access to Side B of the Cassidian Sentinel 4 E911 system via Remote Monitoring and Diagnostics and onsite access as needed.
4. Hickory Police Department agrees to add Catawba County as an additional insured to its property and general liability insurance policies.

**C. TIMEFRAME**

This Memorandum of Understanding will commence on January 1, 2015 and may be amended only by written agreement signed by each of the parties involved.

COPY

At a minimum, Side B of the Cassidian Sentinel 4 E911 system will remain located at Hickory Police Department until the next required hardware/software upgrade.

AGENCY: Catawba County  
ADDRESS: PO Box 389  
Newton, NC, 28658

AUTHORIZED OFFICIAL:  
PRINTED NAME / TITLE:

Bryan D. Blanton  
Bryan D. Blanton, Emergency Services Director

AGENCY: Hickory Police Department  
ADDRESS: 317 2nd Ave NW  
Hickory, NC 28602

AUTHORIZED OFFICIAL:

PRINTED NAME / TITLE:

Michelle Berry  
Michelle Berry, City Manager

Attest  
Debbie D. Miller  
Debbie D. Miller  
City Clerk



This instrument has been preaudited  
in the manner required by the Local  
Government Budget and Fiscal  
Control Act.

Debbie D. Miller  
City of Hickory  
Finance Officer

Approved as to form

Annita M. Dink  
City of Hickory -- Legal Dept.

THIS INSTRUMENT has been preaudited in the manner required by the Local Government Budget and Fiscal Control Act as amended.

Date: 12-1-14

Rodney N. Miller  
Rodney N. Miller, Finance Director

APPROVED AS TO FORM

Date: 11-26-14

Jodi Stewart  
Jodi Stewart, Assistant County Attorney

COPY

CONTRACT INFORMATION SHEET  
CATAWBA COUNTY GOVERNMENT, NC

CONTRACT NUMBER:	<i>Assigned by Finance</i> <b>06-15-0237</b>
PARTIES TO CONTRACT:	Catawba County and Hickory Police Department
BEGINNING AND ENDING DATES:	Date signed – No specified end date
USER DEPARTMENT:	Emergency Services
DEPARTMENT RETAINING SIGNED ORIGINAL:	Emergency Services
BRIEF DESCRIPTION OR PURPOSE:	MOU related to relocation and sharing of Cassidian Sentinel 4 E-911 system
DOLLAR AMOUNT OF CONTRACT:	\$0.00
ACCOUNT NUMBER – EXPENSE/REVENUE	N/A
RETURN WHEN COMPLETED TO:	Bryan D. Blanton

N/A Technology (if applicable)  
JB Attorney  
VRM Finance  
BB Department Head  
N/A E-Verify Affidavit

COPY

## **Attachment – 8**

### **Budget and Budget Narrative Section**

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
202 631627 NC 911 Funds  For FY 2015/16, the monthly amount will be distributed to Catawba County for deposit into the Emergency Telephone System Fund (to be used in accordance with NC GS 62A-46C) is \$29,538.25/mo or \$354,459/yr.	436843	354459	354459	353078	per State funding reduction
202 631628 Secondary PSAP 911 - Hickory  Pass through funding from the 911 Board for authorized 911 expenditures for Secondary PSAP 911 Hickory = \$52,534	0	52534	52534	52451	per State funding reduction
202 631629 Secondary PSAP 911 - Newton  Pass through funding from the 911 Board for authorized 911 expenditures for Secondary PSAP 911 Newton = \$10,570.	0	10570	10570	10544	per State funding reduction
202 680300 Interest On Investments	0	0	0	0	
202 690100 Fund Balance Appropriated  Fund Balance applied for current year's projects.	119626	142654	2095016	2096397	to balance fund
202 695110 From Gen. Fund	0	0	0	0	

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
202      841010      Travel Transportation  Telecommunicator Certification Class (5 people) - meals @ \$600; mileage @ \$900 = \$1500  EMD-Q Certification Class (2 people) - lodging @ \$500; meals @ \$400; mileage @ \$600 = \$1500  NC 911 Board approved training classes (5 people) - lodging @ \$500; meals @ \$320; mileage @ \$1500 = \$2320.	3820	5320	5320	5320	

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
<p>202 841020 Training And Education</p> <p>Registration - Initial EMD Certification Classes for (5) Telecommunicators @ \$395/ea = \$1975</p> <p>Registration - Initial EMD-Q Certification Classes for (2) Telecommunicators @ \$595 ea/ \$1190</p> <p>Fee for 20 EMD recertifications @ \$50 ea = \$1000</p> <p>Fee for 20 CPR cards for certifications @ \$6 ea = \$120</p> <p>Registration - Catawba County Supervisory Training Class @ \$260/ea.</p> <p>Fee for (5) Telecommunications Training Manuals required for Certification @ \$40 ea = \$200</p> <p>Registration -Telecommunicators attending various NC 911 Board approved training classes @ \$1000.</p>	3975	5745	5745	5745	
<p>202 841505 Telephone Service</p> <p>Intrado – Managed IP Network, A9-1-1 Routing and ALI Management (first 92,000 TNs) @ \$13,500/mo = \$162,000/yr</p> <p>AT &amp; T Catco 911 telephone lines @ \$3000/mo = \$36,000/yr</p> <p>Fluent/Language Line Bilingual services @ \$200/mo = \$2400/yr</p>	250000	200400	200400	200400	



# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
<p>202 842520 Rep &amp; Maint-Office Equipment</p> <p>Priority Dispatch – Maintenance Agreement for Annual ProQA ESP EMD (for 7 positions) and Annual AQUA ESP software @ \$4000/yr</p> <p>Priority Dispatch - Maintenance Agreement for Annual Cardset ESP (6 cardsets) @ \$250/yr</p> <p>Stancil Solutions – Audio Recording System maintenance agreement @ \$7200/yr</p> <p>Priority Dispatch - ProQA Software Upgrade - Medical Paramount @ \$3200</p> <p>Priority Dispatch - AQUA Version Upgrade @ \$400</p>	16500	15050	15050	15050	

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
<p>202 842530 Rep &amp; Maint-Other Equipment</p> <p>Tri-Tech - CAD 24x7 software support on 7 positions (Cad Server, workstations, paging link, CAD monitor, GeoRelay) @ \$28,600/yr.</p> <p>Tri-Tech - GeoComm Geolynx 911 Software support (7 positions) @ \$6100/yr.</p> <p>Tri-Tech - GeoComm GeoLynx Sync Client software support @ \$275/yr.</p> <p>Tri-Tech - GeoComm GeoLynx Sync Server software support @ \$600/yr</p> <p>Tri-Tech - Remote Support Connectivity @ \$400/yr</p> <p>Tri-Tech - VisionCAD Geofile Update Utility Support - VisionCAD GeoFile Update Utility (prelive) @ \$0/yr.</p> <p>Tri-Tech - VisionCAD 15 &lt;300K Pop Annual Support - VisionGIS (prelive) @ \$0/yr</p> <p>Tri-Tech - GeoCom GeoLynx DMS GIS Manager Support per Editing Workstation - GeoComm GeoLynx DMS Manager SW, DMS, GIS Mtc 8x5 (prelive) @\$0/yr.</p> <p>Jantech Services for UPS full maintenance @ \$3400/yr</p> <p>Wireless Communications - Maintenance on Vesta Sentinel 911 Geo-Ready Telephone System, Vesta 911 Workstations, EIM Interface, Spectracom Netclock, Patriot Software – 24/7 Remote Monitoring Service @ \$41,100/yr</p>	125000	104575	104575	104575	

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
<p>Motorola - Service Agreement on Central Electronics Bank and (7) Gold Series Elite radio console positions @ \$17,900/yr.</p> <p>E911 Center generator maintenance and unexpected repairs to other equipment @ \$4000/yr.</p> <p>Console Cleaning Specialists - Cleaning agreement includes an annual intensive cleaning of 9-1-1 dispatch console furniture @ \$2000; Maintenance &amp; repair of dispatch console furniture @ \$200 = \$2200</p>					
<p>202 861010 Secondary PSAP 911 Hickory</p> <p>Pass through funding from the 911 Board for authorized 911 expenditures for Secondary PSAP 911 Hickory - \$52,534</p>	0	52534	52534	52451	per State funding reduction
<p>202 861100 Secondary PSAP 911 Newton</p> <p>Pass through funding from the 911 Board for authorized 911 expenditures for Secondary PSAP 911 Newton - \$10,570</p>	0	10570	10570	10544	per State funding reduction
<p>202 870100 Small Tools &amp; Minor Equipment</p> <p>Replacement of broken and worn headsets (wireless and hard-wired), power cords, cables, and various console equipment @ \$7000</p> <p>(7) Chairs for Telecommunicators/Staff @ \$1000 ea = \$7000</p>	14000	14000	14000	14000	
<p>202 870150 Minor IT Equipment</p> <p>(20) Dispatch console monitor replacements @ \$500/ea = \$10,000.</p> <p>Hardware and software implementation fees and upgrades to computers @ \$2500</p>	7500	12500	12500	12500	

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
202 982000 D P Equip -	0	0	0	0	
202 985000 Other Equip-	0	0	1950000	1950000	911 fundable for Justice Center Project
202 994000 Contingency  Contingency funds for unexpected expenditures.	30000	30000	30000	30000	

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
<b>110 831005 Office Supplies</b>  Pens, file folders, spiral notebooks, binders, labels, tabs, CDs, DVDs, note pads, tape, clips, screen cleaners, envelopes, batteries, or any office related supplies for the Communications Center = \$635	635	635	635	635	
<b>110 831090 Other Misc Operating Supplies</b>  Replacement of floor mats - 5 @ \$48/ea = \$240  Upholstery cleaning for 911 chairs @ \$100  Hosting agency - miscellaneous food @ \$650	1125	990	990	990	
<b>110 841010 Travel Transportation</b>  NENA Conference (4 people) - lodging @ \$1400, meals @ \$400, gasoline @ \$150 = \$1950  Administrator to attend NENA Regional bi-monthly meetings and NC 911 Board monthly meetings - lodging @ \$850, meals @ \$300, gasoline @ \$750 = \$1900  Various Training/Workshops/Seminars for staff = \$1500  (Conference/meeting travel is estimated on using a County vehicle and the cost of gasoline only and not mileage reimbursement, which would be higher)	4860	5350	5350	5350	
<b>110 841020 Training And Education</b>  Registration for NENA Conference (4 people) \$180 each - \$720  Registration for various classes or training sessions for staff @ \$1600	1285	2320	2320	2320	

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
<p>110 841025 Dues Subscriptions</p> <p>NENA membership dues for (4) supervisors @ \$140 ea - \$560</p> <p>Firehouse Newsletter Subscription = \$30/yr</p>	580	590	590	590	
<p>110 841030 Printing Binding</p> <p>(5) Cases of Office Depot Envirocopy 30% recycled paper @ \$225</p> <p>(2) HP-C4127X Black Toner Cartridges for two printers @ \$350</p> <p>(1) HP-12A Black Toner @ \$70 each</p> <p>Panasonic UG5500 fax machine cartridges for 2 machines @ \$220</p> <p>Toner Cartridges for LaserJet 4000 M475dn - HP 305A Yellow Toner Cartridge (CE412A) @ \$110; HP 305A Magenta Toner Cartridge (CE413A) @ \$110; HP 305A Cyan Toner Cartridge (CE411A) @ \$110 and (2) HP305A Black Toner Cartridge (CE410A) @ \$160 = \$490</p> <p>One copier drum kit @ \$160</p> <p>Printing services for training manuals = \$100</p>	1465	1615	1615	1615	
<p>110 841500 Air Card Service</p> <p>(2) Verizon Mobile Air Cards @ \$80/mo = \$960/yr</p>	960	960	960	960	

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
<p>110 841505 Telephone Service</p> <p>12 Administrative lines @ \$300/mo = \$3600</p> <p>AT&amp;T Local and long distance charges = \$5520/yr</p> <p>AT&amp;T Elevator 1 &amp; 2 phone charges @ \$855/yr</p> <p>Verizon Cellular Service for Administrator @ \$840/yr</p> <p>T1 Line monthly charges by location as follows:</p> <p>Bandys Water Tower: AT&amp;T (\$200/mo) and Century Link Charges (\$655/mo) = \$10,260/yr</p> <p>Banoak Water Tower: AT&amp;T (\$865/mo) = \$10,380/yr</p> <p>Catawba Rescue: AT&amp;T (\$200/mo) and Century Link (\$345/mo) = \$6540/yr</p> <p>East Maiden Water Tower: AT&amp;T (\$630/mo) = \$7560/yr</p> <p>Hickory Fire Station 2: AT&amp;T (\$245/mo) and Century Link (\$390/mo) = \$7620/yr</p> <p>Longview Public Safety Building: AT&amp;T (\$60/mo) and Century Link (\$90/mo) =</p>	54000	55695	55695	55695	

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
<p>\$1800/yr</p> <p>Charter Business - Cable for 911 Comm Center (\$60/mo) = \$720/yr</p>					
<p>110 841510 Postage</p> <p>Postal charges, stamps and UPS shipments = \$150</p>	150	150	150	150	
<p>110 841590 Other Communication</p> <p>(15) FCC Licenses for Catawba County @ \$50/ea = \$750</p>	1500	750	750	750	



# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
<p>110 842010 Electricity</p> <p>Duke Energy charges for the following tower sites (each location has 5 pieces of equipment):</p> <p>Bandys Water Tower @ \$670/yr</p> <p>Banoak Water Tower @ \$610/yr</p> <p>East Maiden Water Tower @ \$550/yr</p> <p>Hickory Fire Station 2 @ \$610/yr</p> <p>Energy United - Electricity at Anderson Mountain Tower site - \$1750/yr.</p> <p>16 North Tower site electricity paid to Oxford Fire Protection Association @ \$500/yr.</p> <p>James Oxygen - Anderson Mountain Tower site propane tank lease @ \$150/yr.</p> <p>James Oxygen - Propane at Anderson Mountain Tower site @ \$1000/yr.</p> <p>(NOTE: The power for the Justice Center Tower is included in the Justice Center utility bills</p>	6270	5840	5840	5840	

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
<p>110 842530 Rep &amp; Maint-Other Equipment</p> <p>Wireless Communications – 24/7 Service Agreement on (10) Quantar Base Station Equipment (1)Quantar Spare and (9) Quantar Repeaters, (32) Astrotac receivers, 5 Comparitors; Maintenance on the Microwave Hop at Bakers Mtn and Anderson Mtn; Maintenance on the 16 North Microwave Hop, ACU and XLT 1500 Mobiles @ \$59,000/yr.</p> <p>Wireless Communications - 24x7 (4-hr response or less) Service Agreement for (13) Adtran Channel Banks connectivity @ \$18,000/yr.</p> <p>Wireless Communications - Maintenance on VoIP Command Post portable answering positions, Command Post Software support @ \$11,500/yr</p> <p>Motorola - Service Agreement for (16) XTL5000 Consolettes, RF Modem, Elite Server, Genesis Server, and Network Switch @ \$14,500/yr.</p> <p>Tower Guys - providing Justice Center tower lights repair and maintenance @ \$1000</p> <p>Maintenance and repairs for towers throughout County (AC Unites, etc) @ \$6000</p> <p>Unexpected repairs to consoles and console filters @ \$500</p>	111500	110500	110500	110500	
<p>110 843570 Rent Of Data Processing Equipm</p> <p>State of NC - DCI interface charge and DCI connection fee for (9) terminals in the Communication Center @ \$2700/yr.</p>	2700	2700	2700	2700	

# Line Item Budget Justifications

2016YR

Organization 280100 Communication Center

Fund and Account Number with Description of Expenditure	Prior Year Approved Budget	Requested Budget	Recommended Budget	Approved Budget	BUDGET_COMMENTS
<p>110 849090 Miscellaneous</p> <p>Antibacterial and cleaning supplies for workstations, keyboards, phone equipment and consoles and miscellaneous kitchen supplies = \$400</p>	750	400	400	400	
<p>110 849160 Personnel Indirect Costs</p> <p>Indirect Costs for positions - 10 positions added since 1995 @ \$30,000/yr. Requested two positions in FY 09/10 @ \$9000/ yr. Requested two positions in FY 13/14 @ \$6000/yr. (Total = \$45,000)</p>	45000	45000	45000	45000	
<p>110 870100 Small Tools &amp; Minor Equipment</p> <p>Repair and replacement of existing tower equipment and departmental tools/equipment @ \$2000</p> <p>Replacement bulbs at consoles @ \$100</p>	2100	2100	2100	2100	
<p>110 870150 Minor IT Equipment</p> <p>Various cables, switches, batteries and replacement parts for computer and/or radio equipment. UPS battery replacements at tower sites. Miscellaneous replacement of tower site equipment (monitors, keyboards, mice) and/or Communications Center Console Equipment @ \$3000</p>	3000	3000	3000	3000	
<p>110 985000 Other Equip-</p> <p>We currently have 16 Consolettes, model # XTL5000, which were installed during FY 05/06. We have been informed by our maintenance provider that this equipment is at its end of life and the support for this equipment will end in 2018. As these Consolettes provide us with our primary contact with the local law enforcement and EMS, we believe that it's necessary to begin replacing them at an 8 per year interval. The next generation of Consolettes is the APX7500 which will provide us with the most updated version of this equipment (\$6257.25 ea)</p>	0	0	0	0	eliminated request, funded as part of the Justice Public Safety Center project

**Attachment – 9**

**Question 27**

# 911 Phone System Information



**Date** January 19, 2016  
**Customer** Catawba County  
**Quote** Workstations for Backup PSAP

VESTA® 9-1-1			
Qty.	Part No.	Description	Price
6	873090-11102	ESinet Interface Module (EIM)	
6	809800-01110	R4 LIC EIM RFAI MOD	\$1,600.00
		R4 LIC EIM RFAI SPT 1YR	\$288.00
1	04000-00411	VM Server Bundles	
		SVR WIN2008 CAL 5-PK	\$256.00
		VESTA® 9-1-1 Licenses	
		VESTA® 9-1-1 Prime Standard Operations	
6	PS-0PR-VSSL	VPRIME PER SEAT LIC	\$44,000.00
6	SS-0PR-VSSL-1Y	SPT VPRIME 1YR	\$7,920.00
6	PA-MGD-VSSL	Geo Diverse Add On License	
		GEO-DIV LIC	\$6,000.00
		VESTA® Workstation Equipment	
6	81000-409805SFF	WKST HP Z230 SFF	\$9,832.00
6	Synnex	22IN Touchscreen Monitors	\$4,963.44
6	64007-50021	KEYPD 24K 12F USBCBL CP24	\$872.00
6	853004-00401	SAM EXT SPKR KIT	\$1,344.00
6	853030-00302	R4 SAM HDWR KIT	\$13,216.00
6	02800-20500	HNDST 4W MOD ELEC MIC BLK	\$258.00
6	02800-20700	HNDST K 4W/MOD BLK CARBON	\$200.00
6	03044-20900	HDST CORD 12FT 4W MOD BLK	\$24.00
6	809800-35109	R4 IWS CFG	\$1,600.00
6	809800-35108	R4 IWS STG FEE	\$2,400.00
1	870890-07501	CPR/SYSPREP DVD IMAGE	\$0.00
		VESTA® 9-1-1 Modules	
		VESTA® 9-1-1 IRR Module	
6	873099-00502	R4 IRR LIC/DOC/MED	\$7,960.00
6	809800-35110	R4 IRR SW SPT 1YR	\$1,432.00
VESTA® 9-1-1 Subtotal			\$104,163.44

Managed Services			
Qty.	Part No.	Description	Price
6	871499-01211	Monitoring & Response License & Support Fees	
6	809800-16161	M&R 3.0 WKST LIC	\$568.00
		M&R 3.0 WKST SRVC 1YR	\$2,880.00
Managed Services Subtotal			\$3,448.00

Wireless Communications Services			
Qty.	Part No.	Description	Price
1	Wireless	Shipping	\$763.74
1	Wireless	Installation	\$8,387.33
1	Wireless	1st Year Warranty Service	\$2,128.20
Wireless Communications Services Subtotal			\$11,279.27

Quote Total \$118,890.71

## **Quote for Backup Workstations**

Bruce Williams [bwilliams@wirelessnc.com]

Sent: Tuesday, January 19, 2016 9:06 PM

To: Brian A Drum

Attachments: Catawba County Backup Work~1.pdf (36 KB)

Brian,

Here's the quote for the 6 workstations for the Hickory backup. Sorry it took so long!

**BRUCE WILLIAMS, ENP**  
**WIRELESS COMMUNICATIONS, INC.**  
**E9-1-1 ACCOUNT MANAGER**  
**OFC 336-510-8681**  
**CELL 336-324-3627**  
**FAX 888-412-6139**  
**WWW.WIRELESSNC.COM**

4800 Reagan Dr.  
Charlotte, NC 28206

# **SERVICE AGREEMENT**

(PLEASE PRINT)

**Motorola Authorized Service Station**

DATE: 4-Feb-16

CUSTOMER/AGREEMENT  
NUMBER

SERVICE LOCATION

CUSTOMER #:

Dept.

CUSTOMER NAME: Catawba County

ATTN: Mr. Brian Drum

BILLING ADDRESS: P.O. Box 389

CITY / STATE / ZIP: Newton NC 28658

CONTRACT START DATE: TBD AUTOMATIC RENEWAL: ☒ YES ☐ NO EXPIRATION DATE: TBD

CUSTOMER CONTACT: Brian Drum  
CUSTOMER PHONE #: (828) 465-8330  
Fax #: (828) 465-1220

WHEN THIS AGREEMENT IS ACCEPTED BY Wireless Comm., THE EQUIPMENT ON THE CUSTOMER/AGREEMENT ORDER REFERENCED ABOVE WILL BE SERVICED BY Wireless Comm. IN ACCORDANCE WITH THE TERMS AND CONDITIONS PRINTED ON THE REVERSE SIDE. THIS AGREEMENT DOES NOT INCLUDE REPLACEMENT OF ANTENNAS, OR BATTERIES, OR SERVICE OF ANY TRANSMISSION LINE, ANTENNA, TOWER OR TOWER LIGHTING UNLESS SUCH WORK IS DESCRIBED BELOW.

QTY	DESCRIPTION & SERIAL NUMBERS	TYPE OF SERVICE			MONTHLY SVC AMOUNT	
		CUSTOMER LOCATION	SERVICE CENTER	24 Hour EMERG. *	PER UNIT	EXTENDED
6	Vista 911 Workstations	X		X		\$383.84
1	Vista Software Support	X		X		\$779.34
1	24x7 Remote Monitoring Service	X		X		\$240.00
Covers Parts and Labor, all normal terms and conditions apply.						
Normal Business Hours Service 8 to 5.						
Includes 1 Annual Preventive Maintenance Check						

PAYMENT CYCLE:

TAX EXEMPT:

☒ ANNUALLY ☐ YES, ATTACH EXEMPT CERTIFICATE  
☐ QUARTERLY ☒ NO  
☐ MONTHLY  
☐ OTHER (SPECIFY IN SPECIAL INSTRUCTIONS)

TOTAL PER MONTH	\$1,403.18
TAXES	
Term TOTAL	\$16,838.16

THE ABOVE SERVICE AMOUNT IS SUBJECT TO STATE AND LOCAL TAXING JURISDICTIONS TO BE VERIFIED BY WIRELESS COMM.

☒ NEW AGREEMENT ☐ SUPERSEDE AGREEMENT NUMBER(S):

ADDITIONAL TERMS, DEFINITIONS AND CONDITIONS OF THIS SERVICE AGREEMENT ARE PRINTED ON THE REVERSE SIDE.

AUTHORIZED CUSTOMER SIGNATURE/P.O. # TITLE DATE

IS P.O. REQUIRED? ☐ YES ☒ NO ATTACHED P.O. #

☒ NO

**Bruce Williams**  
336-324-3627  
Fax 888-412-6139

WIRELESS.COMM. SALES/SERVICE REP (SIGNATURE)

TELEPHONE #

OFFICE USE ONLY  
SERVICE MGT APPROVAL  
FR  
LO  
PR



# Furniture Information

## **FW: Wrightline Furniture Quotes**

Brian A Drum

**Sent:** Tuesday, January 19, 2016 2:56 PM

**To:** Barbara Wager

**Attachments:** Hickory PD-1-8-16.pptx (3 MB) ; Catawba County Wrightline ~1.pdf(40 KB) ; Catawba County Wrightline ~2.pdf(31 KB)

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**From:** Bruce Williams [bwilliams@wirelessnc.com]

**Sent:** Monday, January 18, 2016 10:51 AM

**To:** Brian A Drum

**Subject:** Wrightline Furniture Quotes

Brian,

Here's the quotes for Options 2 and 4 for the furniture at Hickory PD. Please review the drawings again, Cindy had to make so minor changes due to the inclusion of the comfort control systems.

Let me know if you have any questions.

BRUCE WILLIAMS, ENP

WIRELESS COMMUNICATIONS, INC.

E9-1-1 ACCOUNT MANAGER

OFC 336-510-8681

CELL 336-324-3627

FAX 888-412-6139

[WWW.WIRELESSNC.COM](http://WWW.WIRELESSNC.COM)



January 18, 2016  
Catawba County

LN	Qty	Item No	Description (Colors/Comments)	Price
<b>Option 2</b>				
1	2	PC2429S1	24" Core, Single Sided Steel: Black	\$571.88
2	2	PC2429D1	24" Core, Double Sided Steel: Black	\$457.50
3	2	PC4829S1	48" Core, Single Sided Steel: Black	\$1,031.25
4	2	PC6029S1	60" Core, Single Sided Steel: Black	\$1,145.63
5	2	PC6029D1	60" Core, Double Sided Steel: Black	\$1,031.25
6	2	PAPG2416	24" Access panel for Villa Power Module Steel: Black	\$202.50
7	2	TOAVLC6	Villa C-D-B-72	\$255.00
8	4	PMW2416D	24X16 Modular Wall Ds Steel: Black	\$1,185.00
9	2	PDW4816S	48x16 Display Wall SS Steel: Black	\$1,372.50
10	2	PMW6016D	60x16 Modular Wall DS Steel: Black	\$785.63
11	2	PMW6016S	60x16 Modular Wall SS Steel: Black	\$915.00
12	12	PWFP3016	30x16 Fabric Insert (user fac) Fabric: FR701 Black	\$1,788.75
13	2	PDWT24S1	24" Wide Wall Top Trim, SS Steel: Black	\$183.75
14	2	PDWT24D1	24" Wide Wall Top Trim, DS Steel: Black	\$183.75
15	2	PDWT48S1	48" Wide Wall Top Trim, SS Steel: Black	\$251.25
16	2	PDWT60S1	60" Wide Wall Top Trim, SS Steel: Black	\$273.75
17	2	PDWT60D1	60" Wide Wall Top Trim, DS Steel: Black	\$273.75
18	1	PCT116P1	90D Conn Tler 1 (16) Steel: Black	\$343.13
19	4	PVET16T1C	Vertical End Trim T1 (16) W/Cable Port Steel: Black	\$262.50
20	1	PUPRSLH1	30"D Cantilever Top Support Lh Steel: Black	\$65.63
21	1	PUPRSRH1	30"D Cantilever Top Support Rh Steel: Black	\$65.63
22	6	PEWS60303EZ	60" Dual Linear Lift, e-Zone Steel: N/A - Laminate: Black (Black Trim)	\$29,418.75
23	6	PEPECU1	EZone - Personal Comfort System	\$18,455.63
24	3	PTWRR24201RM	Rackmount Tower, T1 - 16 Steel: N/A - Laminate: Black (Black Trim)	\$4,471.88
25	3	PTWRL24201RM	Rackmount Tower, T1 - 16 Steel: N/A - Laminate: Black (Black Trim)	\$4,471.88
26	4	PCSK2200	22" Wide Core Skin Steel: Black	\$431.26

27	1	PCC48480	48 x 48 Curved Corner WS for Profile (30/30) Steel: N/A - Laminate: Black (Black Trim)	\$467.50
28	12	TOACTA1000B	Grommet Mount for Pole, Black	\$599.25
29	12	TOACTA1028B	28" Extension Pole	\$752.25
30	24	TOACGMA220B	Pole Mount, articulating dual swing arm and 26" array	\$14,790.00
31	12	ARRAYHANDLE	FPD Array Handle <u>Steel: Black</u>	\$1,530.00

SubTotal	\$88,023.38
Transportation	\$4,037.50
Installation	\$14,068.85
Tax	
Total	\$106,129.72

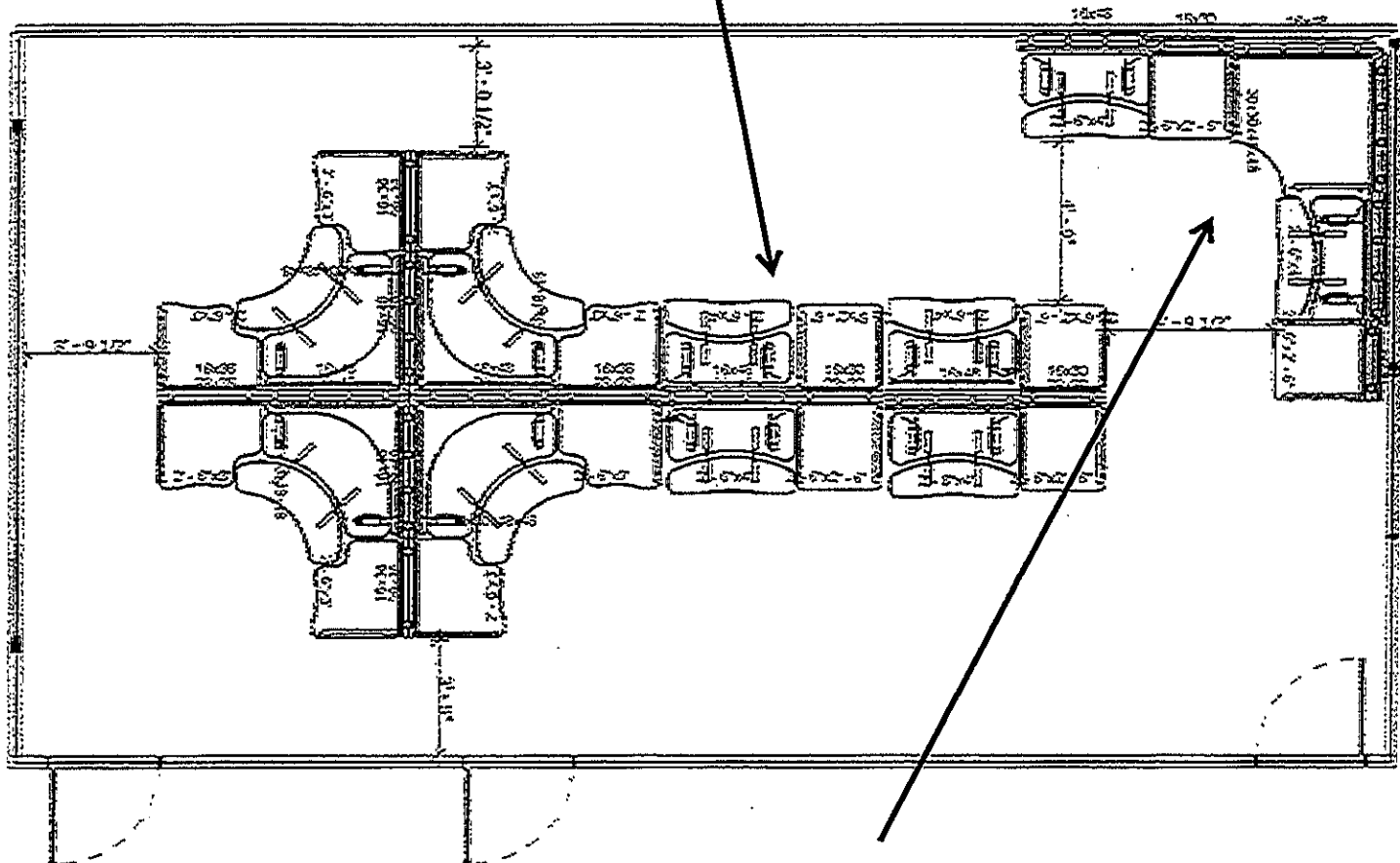
# Hickory Police Department

## Option 2

12-9-15



New consoles are 7' 4' linear lift with 2.5' side  
for CPU storage.



The corner has the same 7' consoles with  
corner section to put printers.

**Office DEPOT.**  
**OfficeMax**

**WorkPro® Quantum 9000 Series Ergonomic Mid-Back Mesh/Fabric Chair, Black Item # 130313**



\$ 369 .99 / each

Add a Protection Plan (optional) ①

Ⓢ No Protection

Ⓢ 3 Year Protection

+ \$64.99

Free delivery

Estimated delivery 1-3 business days

📍 Free in store pickup ①  
Sold in stores

## Description

The less time you spend getting comfortable in your chair, the more time you have to finish the project you're working through. This WorkPro Quantum 9000 Series ergonomic mid-back mesh chair features multiple adjustments, so you can customize it to your personal preference quickly.


- Overall Dimensions: 43 3/4"H x 29 1/2"W x 28"D.
- Weight capacity tested to support up to 250 lb.
- This WorkPro Quantum 9000 Series ergonomic mid-back fabric chair's synchro-tilt and locking mechanisms let you get situated and stay comfortable all day long. Synchro-tilt helps keep the proper balance between your torso and legs, so neither is receiving too much pressure while you sit in the WorkPro Quantum 9000 Series mid-back fabric chair...even for extended periods. Tilt-lock allows you to lock the chair into whatever tilt position you prefer — later, you can unlock it and re-lock it into a different position, depending on your task.
- Lumbar feature supports your lower back and the natural curve of your spine.
- Waterfall seat cushion slopes downward to help reduce stress on your legs.
- The WorkPro Quantum 9000 Series ergonomic chair features a fabric and mesh mid-back design to keep you cool and comfortable.
- Assembly is required.
- GREENGUARD certified — certified for low chemical emissions: UL.COM/GG - UL 2818. Ranked in two tiers: Certified and Gold.
- Greener choice — contains 55% postconsumer recycled content.
- Backed by the manufacturer's 10-year limited warranty.

## Product Details

Item #	130313
OfficeMax #	24622428
Manufacturer #	QUANTUM-BKF
chair back style	mid-back
adjustable tilt angle	yes
chair back material	mesh
material color	black
waterfall seat cushion	yes
adjustable height range	37 1/2" - 43 3/4"
adjustable tilt tension	yes
adjustable arm height	yes
multiple adjustments	yes
adjustable back height	yes
lumbar support	yes

seat material	fabric
frame construction	nylon
assembly required	yes
tilt lock	yes
adjustable arm width	yes
adjustable seat back depth	yes
adjustable back angle	yes
postconsumer recycled content	55%
style name	Quantum
meets/exceeds ANSI/BIFMA standards	yes
Eco-conscious	Recycled Content; Less Harsh Chemicals
synchro tilt	yes
brand name	WorkPro
seat glide	yes
recommended daily usage	Professional (8-10 hours)
dimensions	43 3/4"H x 29 1/2"W x 28"D
seat size	20 1/2"H x 19 1/4"W
distributor	Swinton Avenue Trading Ltd., Inc.
arms	yes
back cushion height	20" - 23" inches
adjustable knee tilt	no
total recycled content	55%
adjustable seat height	pneumatic/1-touch
adjustable forward tilt	no
adjustable headrest	no
eco-label/standard	GREENGUARD
warranty length	10-year limited
weight capacity	250 lb
frame color	Black
Show More ▾	

## Related Items

	Availability	Price
 Realspace® Economy Chair Mat For Low-Pile Carpets, 36"W x 48"D, Studded, Standard Lip, Clear Item # 911900	Available	\$34.99/each

## Customer Reviews

# Dispatch Radio Console Information



**Catawba Co Communicatins MIP5000 console 6 position quote, Brian Drum, 12-8-15.xls**

Randy Heaton [rheaton@wirelessnc.com]

Sent: Tuesday, December 08, 2015 12:33 PM

To: Brian A Drum

Attachments: Catawba Co Communicatins M~1.xls (37 KB)

Hey Brian, I finally got the engineering done for your MIP5000, 6 position console. Sorry it took so long, those guys are pretty busy these days. Anyway, this has been engineered and should be good to go for your application. However, James, Buddy and I were talking about this and were wondering if you would be interested in looking at the MCC7500 to go along with what you have now. We could also incorporate the MCC7100 into this design. This would make everything compatible at both dispatch centers and would allow dispatchers to move between both locations without any changes in the console operations. There are some other reasons to consider the MCC7500 and this time it is not how much money Randy makes. Ha ha. I probably do better myself selling the MIP5000. I just wanted you to know I am not trying to up sell you for my own benefit. We would be glad to work on the MCC7500/7100 console solution for you if you are interested. This would have to be done through Motorola but we would be involved in the design and configuration.

Hope you have a Merry Christmas Brian. If you would like to get together and discuss all this just let us know. We will be glad to come and sit down with you and brain storm on this.

Thanks again,

Randy

Wireless Communications Inc.  
4800 REAGAN DRIVE  
CHARLOTTE, NC 28208

# MIP5000 Quotation

Quote Number: 1  
Consultant: Randy Heaton  
Date of Quote: December 8, 2015

<b>Customer:</b> Catawba County Communications Justice Center Newton, North Carolina 28658 Attn. Brian Drum		<b>Ship To:</b> SAME
<b>Tax Exempt Number:</b>		
<b>TERMS:</b> Net 30		
<b>SHIP:</b> best way		
<b>ph:</b>	828-455-2904	
<b>e-mail:</b>	rheaton@wirelessnc.com	

Line	Qty	Model Number	Description	Unit Price	extended
1	1	MIP5000	Motorola Console MIP5000 configuration with 6 positions, 19" touch screen monitors, also includes 9 VIPER control stations, 4 VHF control stations, combiner systems, antenna systems, and all ancillary hardware	\$369,417.89	\$369,417.89

<b>Additional Information</b>		<b>Sub-Total:</b>	\$369,417.89
		<b>Programming</b>	\$995.00
		<b>shipping</b>	\$7,389.00
		<b>Install. &amp; Optimization</b>	\$42,222.00
		<b>Engineering</b>	\$8,613.00
		<b>project management</b>	\$21,420.00
		<b>Grand Total:</b>	\$450,056.89
<b>Client Approval:</b> X		<b>FCC/LIC REQ.</b>	X
		<b>Deliver:</b>	X
		<b>Ship:</b>	X
		<b>Install:</b>	X
		<b>Prog on File</b>	X
		<b>SVC Visit Req</b>	X
		<b>CWO/COD</b>	
		<b>Date:</b>	

<b>Consultant:</b> Randy Heaton	<b>e-mail:</b> rheaton@wirelessnc.com	<b>Date:</b>
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# MIP5000

Wireless Communications, Inc.  
4800 REAGAN DRIVE  
CHARLOTTE, NC 28208

MIP5000 6 console equipment list

Quote Number: 1  
Consultant: Randy Heaton  
Date of Quote: January 20, 2016

<b>Customer:</b>		<b>Ship to:</b>	
Catawba County Communications 100 SW Blvd. Newton, North Carolina 28658 Attn: Brian Drum			
ph: 828-465-4866		ph: 828-465-2804	
e-mail:		e-mail: rheaton@wirelessnc.com	
<b>Tax Exempt Number:</b>			
<b>TERMS:</b> Net 30			
<b>SHIP:</b> best way			

Line	Qty	Model Number	Description	Unit Price	Extended
1a	6	MIP5000-OPS	MOTOROLA MIP5000 OPERATOR		
1b	6	L3567	VOIP dispatch provides software applications	\$17,884.62	\$107,307.72
1c	6	TT2358	Low tier workstation with windows 7 pro	\$3,923.08	\$23,538.48
1d	6	TT2134	MIP5000 transparent workstation	\$76.93	\$461.58
1e	6	DS01BLKWIDETO-UCH	19" touch screen monitor, black	\$4,081.85	\$24,491.10
1f	18	TT05522	MIP5000 USB headset jack	\$663.47	\$11,942.46
1g	6	CDN6673	PC speakers	\$63.70	\$382.20
1h	6	B1914	Gooseneck Microphone	\$346.16	\$2,076.96
1i	6	BLN6732	Footswitch	\$146.77	\$880.62
1j	6	DDN1245	SW based IRR USB HASP with license, sound card & speakers for Windows 7 Includes instant recall recorder	\$24,383.10	\$24,383.10
1k	18	EM165AA	USB expansion kit	\$36.93	\$664.74
2a	1	CSDM	CONSOLE SYSTEM DATE MANAGER		
2b	1	TT2538	Low Tier workstation	\$3,923.08	\$3,923.08
2c	1	TT2134	MIP5000 transparent workstation	\$76.93	\$76.93
2d	1	DS019BLKWIDETO-UCH	19" touch screen monitor, black	\$4,081.85	\$4,081.85
2e	2	T517448	Shelf, heavy duty	\$644.02	\$1,288.04
2f	2	CLN1856	HP switch 2620-4	\$2,769.24	\$5,538.48
2g	2	J4858C	GBIC, SX-LC	\$330.00	\$660.00
2h	2	OPEN-RACK	FOUR POST RACKS		
3a	2	T504182	Rack, four post 45U	\$535.37	\$1,070.74
3b	3	T301448	Outlet strips	\$101.57	\$304.71
3c	2	T443818	Ground bar, vertical	\$112.79	\$225.58
3d	2	T22506	Power supply	\$913.48	\$1,826.96
3e	2	T530791	Power supply	\$435.85	\$871.70
3f	1	T306750	UPS rack mount	\$1,146.30	\$1,146.30
4a	13	GATEWAY	INTERFACE GATEWAYS		
4b	9	L3484AC	VOIP digital MIP5000	\$920.77	\$8,286.93
4c	4	L3483AC	Tone MIP5000	\$920.77	\$3,683.08
4d	7	DDN8900	MIP5000 Rack kit	\$259.62	\$1,817.34
4e	2	PBLOCK	Punchblock kit	\$143.08	\$286.16

console equipment \$225,824.46

<b>Additional Information</b>			
Motorola MIP5000 Console equipment list			
FCC/LIC REQ.			
Deliver:			
Ship:			
Install:			
Prog on File			
SVC Visit Req			
CWO/COD			
<b>Client Approval:</b> X		<b>Date:</b>	

Consultant: Randy Heaton e-mail: rheaton@wirelessnc.com Date:

**MIP5000**

**Catawba Co Comm MIP5000 equipment list with pricing for 911 funding to sent to Brian Drum, 1-20-16.xls**

Randy Heaton [rheaton@wirelessnc.com]

Sent: Wednesday, January 20, 2016 3:14 PM

To: Brian A Drum

Cc: rheaton@wirelessnc.com

Attachments: Catawba Co Comm MIP5000 eq~1.xls (40 KB)

Hey Brian, Here is the MIP5000 console equipment list you asked for. I broke out the pricing for you. I think this is what you need to send in to the 911 board. I did not include the install, engineering etc etc on this equipment list. You have the quote with all that info on it. Anyway, hope this is helpful.

Also, I am working on the other things you requested. However, most of those things need to have the input and participation of others, such as Chad Buie, James, engineering etc. Chad has been off this week and I have to wait for him to get back to the office before we can get anything else done. James is working on some of his stuff. Take a look at this and let me know if you have any questions or need anything else. Note I have not included anything for the 5 years of field service as we discussed in our last meeting. I have to get that quote and info from Chad Buie. Hang on I am working on them.

Thanks Brian,

Randy

# MIP5000

Wireless Communications, Inc.  
4800 REAGAN DRIVE  
CHARLOTTE, NC 28206

MIP5000 recommended console spares  
Equipment list

Quote Number: 1  
Consultant: Randy Heaton  
Date of Quote: January 20, 2016

<b>Customer:</b>		<b>Ship To:</b>	
Catawba County Communications 100 SW Blvd. Newton, North Carolina 28258 Attn. Brian Drum		Tax Exempt Number:	
e-mail:		TERMS: Net 30 SHIP: best way	
		ph. 828-455-2904 e-mail: rheaton@wirelessnc.com	

Line	Qty	Model Number	Description	Unit Price	Extended
1	1	TT05522	Motorola MIP5000 model	\$663.47	\$663.47
2	1	B1914	Gooseneck microphone	\$346.16	\$346.16
3	1	BLN6732	Footswitch	\$146.77	\$146.77
4	1	L3484AC	VOIP digital gateway	\$920.77	\$920.77
5	1	L3483AC	Tone gateway	\$920.77	\$920.77

<b>Additional Information:</b>			
	FCC/LIC REQ.		
	Deliver:		
	Ship:		
	Install:		
	Prog on File		
	SVC Visit Req		
<b>Client Approval:</b>	X	CWO/COD	<b>Date:</b>

<b>Consultant:</b>	Randy Heaton	e-mail: rheaton@wirelessnc.com	<b>Date:</b>
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**MIP5000**

**Catawba Co Comm MIP5000 spare equipment list sent to Brian Drum, 1-20-16.xls**

Randy Heaton [rheaton@wirelessnc.com]

Sent: Wednesday, January 20, 2016 5:52 PM

To: Brian A Drum

Cc: rheaton@wirelessnc.com

Attachments: Catawba Co Comm MIP5000 sp~1.xls (37 KB)

Brian, Attached is a list of the recommended spares for the MIP5000 console. I did not include this in the equipment list I sent you earlier today. I was not sure if you wanted to send this in with our 911 funding request or not. I decided just to put this on a second page and you can decide if you want to submit this with the other equipment list. We did include these spares on the budgetary quote we talked about last week. Just wanted to break this out too so you all can decide how you want to handle this.

Thanks Brian, I will be sending you the APX consollette quotes too. They have to come from Motorola direct and those are not fundable by 911 funds as you know. This way you will have the stuff broken out as you need it.

Thanks Brian, I am going to call Chad in the morning when he gets back to the office. I will push them to get you what you need as soon as possible.

Randy

**MOTOROLA SOLUTIONS****MIP5000 / APX**

Quote Number: QU0000348243

Effective: 20 JAN 2016

Effective To: 20 MAR 2016

**Bill-To:**

CATAWBA COUNTY COMMUNICATIONS  
CENTER  
PO BOX 389  
NEWTON, NC 28658  
United States

**Ultimate Destination:**

CATAWBA COUNTY COMMUNICATIONS  
CENTER  
100A SW BLVD  
NEWTON, NC 28658  
United States

**Attention:**

Name: Brian Drum  
Phone: 828-455-2904

**Sales Contact:**

Name: Randy Heaton MR  
Email: rheaton@wirelessnc.com  
Phone: 8284552904

Contract Number: NC STATE NON Ariba -725G

Freight terms: FOB Destination

Payment terms: Net 30 Due

Item	Quantity	Nomenclature	Description	List price	Your price	Extended Price
1	9	M30URS9PW1AN	7/800 SINGLE BAND APX7500	\$2,586.00	\$1,939.50	\$17,455.50
1a	9	G806BE	ADD: ASTRO DIGITAL CAI OPERATION	\$515.00	\$386.25	\$3,476.25
1b	9	GA05100AA	ENH: STD WARRANTY APPLIES-NO SFS	-	-	-
1c	9	G90AC	ADD: NO MICROPHONE NEEDED	-	-	-
1d	9	G618AC	ADD: CBL REMOTE MOUNT 10 FEET	\$10.00	\$7.50	\$67.50
1e	9	G89AC	ADD: NO RF ANTENNA NEEDED	-	-	-
1f	9	G67BZ	ADD: REMOTE MOUNT MID POWER	\$297.00	\$222.75	\$2,004.75
1g	9	G51AT	ENH: SMARTZONE OPERATION APX	\$1,500.00	\$1,125.00	\$10,125.00
1h	9	G142AD	ADD: NO SPEAKER NEEDED	-	-	-
1i	9	G361AH	ADD: P25 TRUNKING SOFTWARE	\$300.00	\$225.00	\$2,025.00
1j	9	GA01767AG	APX MOBILE RADIO AUTHENTICATION	\$100.00	\$75.00	\$675.00
1k	9	G442AJ	ADD: OS CONTROL HEAD	\$432.00	\$324.00	\$2,916.00
1l	9	G444AE	ADD: APX CONTROL HEAD SOFTWARE	-	-	-
2	41844	SVC03SVC0124D	SUBSCRIBER INSTALL - CUST LOCATION	\$1.00	\$1.00	\$41,844.00
(Notes) Combiners, antennas and associated hardware ordered through WCI						
3	750	SVC03SVC0124D	SUBSCRIBER INSTALL - CUST LOCATION	\$1.00	\$1.00	\$750.00
(Notes) Shelf Rack						

Total Quote in USD

\$81,339.00

PO Issued to Motorola Solutions Inc. must:

&gt; Be a valid Purchase Order (PO)/Contract/Notice to Proceed on Company Letterhead. Note: Purchase Requisitions cannot be accepted

&gt; Have a PO Number/Contract Number &amp; Date

&gt; Identify "Motorola Solutions Inc." as the Vendor

&gt; Have Payment Terms or Contract Number

&gt; Be issued in the Legal Entity's Name

&gt; Include a Bill-To Address with a Contact Name and Phone Number

&gt; Include a Ship-To Address with a Contact Name and Phone Number

## **MIP5000 / APX**

### **APX Consollette equipment list broken out from the MIP5000 budgetary quote**

Randy Heaton [rheaton@wirelessnc.com]

Sent: Wednesday, January 20, 2016 8:23 PM

To: Brian A Drum

Attachments: QU0000348243.pdf (8 KB)

Brian, See the attached equipment list and quote for the APX Consollettes 7/800mhz. I am sending you this to help break out the consollettes from the MIP5000. Again, this is not 911 fundable as you probably know. This also has to be ordered directly from Motorola and it is on North Carolina State Contract 725G. The cost of these Consollettes were in the MIP5000 budget quote we gave you last week.

I am still working on this stuff. I will be sending you the VHF control stations quote shortly. They were also part of the MIP5000 budget quote we sent you last week.

Thanks, any questions just give me a shout

Randy



**MOTOROLA SOLUTIONS**

Quote Number: QU0000348247

Effective: 20 JAN 2016

Effective To: 20 MAR 2016

**Bill-To:**

CATAWBA COUNTY COMMUNICATIONS  
CENTER  
100A SW BLVD  
NEWTON, NC 28658  
United States

**Ultimate Destination:**

CATAWBA COUNTY COMMUNICATIONS  
CENTER  
100A SW BLVD  
NEWTON, NC 28658  
United States

**Attention:**

Name: Brian Drum  
Phone: 828-455-2904

**Sales Contact:**

Name: Randy Heaton MR  
Email: rheaton@wirelessnc.com  
Phone: 8284552904

Contract Number: NC STATE NON ARIBA -725G

Freight terms: FOB Destination

Payment terms: Net 30 Due

Item	Quantity	Nomenclature	Description	List price	Your price	Extended Price
1	4	L30KSS9PWIAN	APX7500 SINGLE BAND VHF MID PO	\$4,379.00	\$3,284.25	\$13,137.00
1a	4	G24IAP	ENH: SW ASTRO READY (ANALOG)	-	-	-
1b	4	G90AC	ADD: NO MICROPHONE NEEDED	-	-	-
1c	4	L999AB	ADD: FULL PP W/O5/KEYPAD/CLOCK/VU	\$789.00	\$591.75	\$2,367.00
1d	4	CA01598AB	ADD: AC LINE CORD US	-	-	-
1e	4	G48BB	ENH: CONVENTIONAL OPERATION	\$800.00	\$600.00	\$2,400.00
	4	HKN6233A	ASSEMBLY, ACCESSORY, APX CONSOLTE RACK MOUNT TRAY HARDWARE KIT	\$200.00	\$150.00	\$600.00
3	15436	SVC03SVC0124D	SUBSCRIBER INSTALL - CUST LOCATION	\$1.00	\$1.00	\$15,436.00

(Notes) antenna system ordered from WCI

Total Quote in USD

\$33,940.00

PO Issued to Motorola Solutions Inc. must:

- >Be a valid Purchase Order (PO)/Contract/Notice to Proceed on Company Letterhead. Note: Purchase Requisitions cannot be accepted
- >Have a PO Number/Contract Number & Date
- >Identify "Motorola Solutions Inc." as the Vendor
- >Have Payment Terms or Contract Number
- >Be issued in the Legal Entity's Name
- >Include a Bill-To Address with a Contact Name and Phone Number
- >Include a Ship-To Address with a Contact Name and Phone Number
- >Include an Ultimate Address (only if different than the Ship-To)
- >Be Greater than or Equal to the Value of the Order
- >Be in a Non-Editable Format
- >Identify Tax Exemption Status (where applicable)
- >Include a Signature (as Required)

**MIP 5000 / APX**

**APX VHF control base stations equipment list broken out from the  
MIP5000 console budgetary quote**

Randy Heaton [rheaton@wirelessnc.com]

Sent: Wednesday, January 20, 2016 8:46 PM

To: Brian A Drum

Attachments: QU0000348247.pdf (7 KB)

Brian, Attached is the equipment list and broken out quote for the APX VHF control stations that were part of the MIP5000 budgetary quote. This is also per North Carolina State Contract 725G.

Hope this will help you start to get this all put together.

Thanks again,

Randy

---

**From:** Randy Heaton [rheaton@wirelessnc.com]  
**Sent:** Friday, January 29, 2016 8:04 AM  
**To:** Brian A Drum  
**Subject:** RE: Catawba Co Comm VHF simulcast budgetary quote from Randy H. 1-12-15.xls

Hey Brian, if you do an out right purchase the \$52,500 can be paid on an annual basis not up front. If you Lease and want to have the maintenance covered as part of the lease the \$52,500 is paid to us up front by the Lease company and then the cost to you is obviously spread over the 5 years and paid however you want the terms set up, quarterly, semiannually, annually etc.

See you Brian,

Randy

**From:** Brian A Drum [mailto:BADRUM@catawbacountync.gov]  
**Sent:** Thursday, January 28, 2016 11:55 PM  
**To:** rheaton@wirelessnc.com  
**Subject:** RE: Catawba Co Comm VHF simulcast budgetary quote from Randy H. 1-12-15.xls  
Can the \$52,500 be divided into an annual maintenance payment of \$10,500 or does it have to stay at the total amount?

---

**From:** Randy Heaton [rheaton@wirelessnc.com]  
**Sent:** Thursday, January 28, 2016 4:57 PM  
**To:** Brian A Drum  
**Subject:** FW: Catawba Co Comm VHF simulcast budgetary quote from Randy H. 1-12-15.xls

Hey Brian, I checked the MIP5000 quote and field maintenance was not included in the quote we gave you originally. You can add the 52,500 to the original quote to give you a grand total that would include field service for 5 years.

Also, the price for 5 years of field maintenance would be the same if you leased the equipment from EPLUS or any other finance company.

Brian, your question about the VHF simulcast system concerning 5 years of field maintenance is the same as the MIP5000. 5 years of maintenance was not included in the budget quote you gave you. I do not have a firm price for 5 years of maintenance on the simulcast quote but I don't anticipate it being \$100,000 dollars. I can't give you that price tonight because I have to run that past the service manager first.

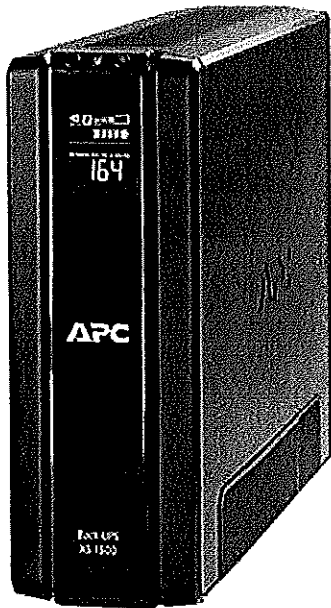
I think this answers your questions but let me know if you have others or need more info.

Thanks again Brian,

Randy

**Office DEPOT.**  
**OfficeMax**

**APC® Back-UPS® XS Series Battery Backup, BX1500G, 1500VA/865 Watt Item # 206137**



► TAKE A PRODUCT TOUR

This item is in your cart

\$ **199** .99 / each

Add a Protection Plan (optional) ⓘ

Ⓢ No Protection



2 Year Protection

**+\$49.99**

Free delivery

Estimated delivery 1-3 business days

Free in store pickup ⓘ



In stock at

1858 catawba valley blvd, hickory, nc 28602

Check another store

## Description

When a project needs to be finished, this powerful battery backup helps ensure you can keep working on your electronic devices, even in the event of a power failure. Work safely, save the work you've done, while keeping your deadline.


- Battery backup outlets let you save your work and power down in the event of a power outage.
- Includes additional outlets that provide surge protection only.
- Telephone-line protection safeguards against surges entering via your Internet connection.
- Space-saving unit can be placed on the floor, under a monitor or on a shelf.
- Includes energy-saving technology. Can save you up to \$50 per year in energy costs.
- LCD shows status at a glance.

## Product Details

Item #	206137
OfficeMax #	21880582
Manufacturer #	BX1500G
coaxial cable line protection	yes
height	11.9 in.
number of outlets with battery backup	5
protection status indication	yes
width	4.4 in.
average charging time	16 hours
depth	15 in.
EMI/RFI noise reduction	no
manufacturer	American Power Conversion
cord length	6 feet
Eco-conscious	helps save energy
brand name	APC
connected equipment warranty	\$150,000
UL listed	Yes
volt-amps	1500 VA
Input Connectors	Power NEMA 5-15
dimensions	9"H x 19.1"W x 15"D

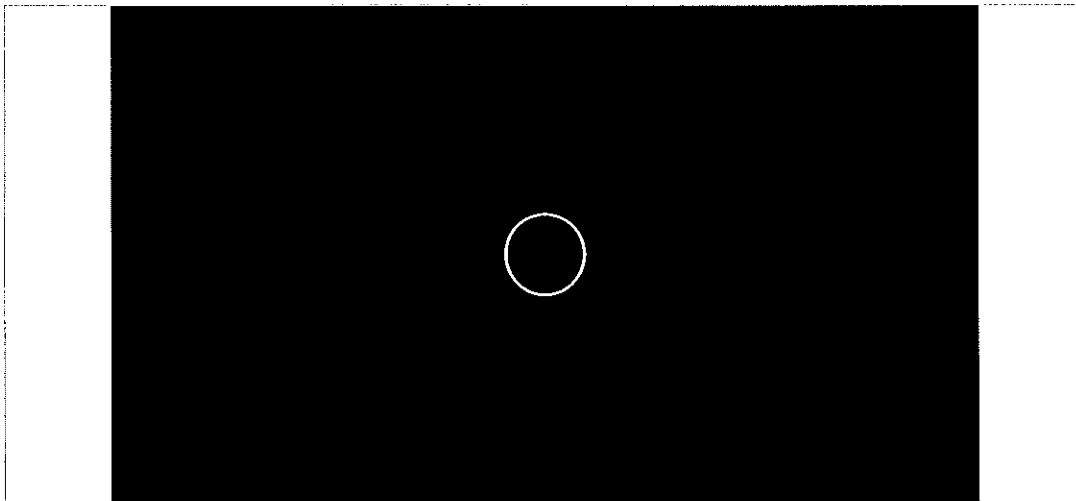
joule rating	420 joules
fax/phone line protection	yes
wattage	865 watts
number of outlets	10
color	black
on/off switch	yes
warranty length	3-year limited
mounting hardware included	no
Show More ▾	

## Customer Reviews

From the Manufacturer | Powered by  WEBCOLLAGE

Is the information in this section helpful? Yes/No

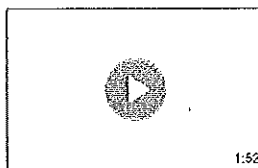
### APC Back-UPS® BX1500G Videos



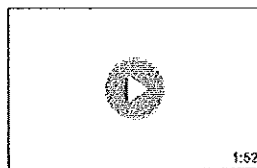
Back-UPS Pro



Back-UPS Pro

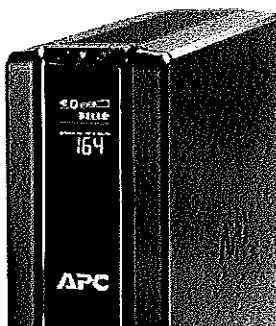


Back-UPS Pro Set up



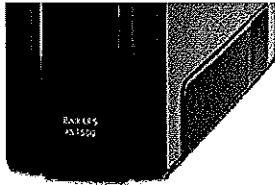
Back-UPS Pro Replacement  
Battery

### Overview



#### Back-UPS BX1500G

- Guaranteed protection and battery backup power for your valuable electronics, ensuring they remain safe from dangerous power disturbances
- Stay available and connected by powering critical devices (computers, wireless networking devices, gaming consoles, security systems and other electronics) during a blackout
- Guaranteed protection from surges and spikes caused by storms, lightning, circuit overloads, power cycling, etc.
- Automatic voltage regulations maintains healthy voltage conditions without using battery power
- 10 total outlets – 5 battery backup, 5 surge protection only
- LCD status display for simple UPS management



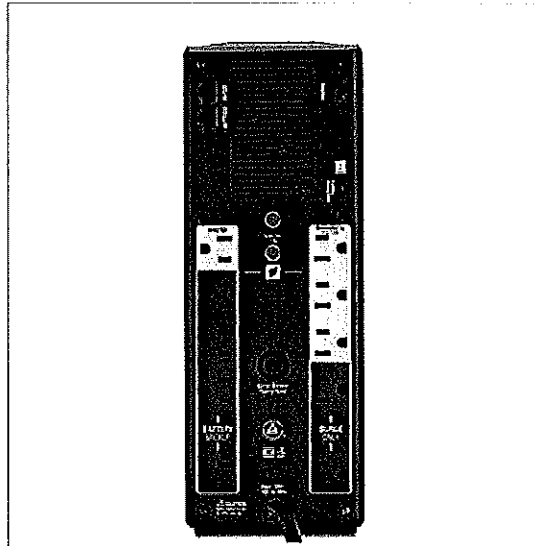
- PowerChute software provides safe system shutdown, preventing potential data corruption
- Lifetime \$150,000 equipment protection policy for all connected electronics
- ENERGY STAR® certified

## Product Features

The electronic devices you rely on every day for communication, security, and entertainment such as networking equipment, computers, televisions, security systems, and gaming consoles are at risk of damage and disconnect due to unexpected blackouts, voltage fluctuations, and other power disruptions.

The APC by Schneider Electric Back-UPS BX1500G provides instant battery power to your critical electronics when the power goes out, reducing risk of damage and keeping you connected and available both personally and professionally. Additionally, the BX1500G UPS (uninterruptible power supply) offers guaranteed surge and lightning protection for attached electronics. Advanced features such as Automatic Voltage Regulation (AVR) and an easy-to-read LCD display make the BX1500G the ideal choice for high-performance systems. By connecting your valuable devices, you are ensuring these investments against potentially irreversible damage. When the power goes out, the APC BX1500G will power critical devices including home networking equipment; allowing you to maintain your internet connection. This allows you to work productively, avoid the loss of valuable data, and safely shut down equipment.

The BX1500G UPS power supply includes PowerChute Personal Edition software which provides UPS management options, safe system shutdown, and energy monitoring to enable cost savings and prevent potential data corruption. This UPS power supply unit offers ten outlets, five of which provide battery backup runtime during an outage, and an 865-watt/1,500-volt ampere output power capacity.



### Extended Battery Backup for Critical Equipment

The BX1500G UPS provides extended power backup so you can continue to work on a PC, access the network, and game online when a power outage occurs. The BX1500G gives you time to save your work and safely shut down electronics or even work right through an outage.

### Automatic Voltage Regulation for Consistent Protection and Power Backup

The BX1500G UPS protects connected devices from dangerous surges or spikes in voltage. Automatic Voltage Regulation (AVR) technology consistently maintains safe voltage conditions without draining the battery, saving backup runtime for power outages. Customizable voltage transfer points and sensitivity profiles let you customize settings to maximize equipment protection and the unit's battery life. The BX1500G UPS also provides data line surge and spike protection for telephone, Ethernet, and coaxial cable connections.

### Prevent Data Corruption with PowerChute Software

APC PowerChute Personal Edition power and energy management software is included. PowerChute prevents data corruption by automatically saving files and shutting down your system in an extended power outage or low-battery condition. PowerChute monitors and displays energy usage and reduces costs via customized energy management planning. Connect the USB cable that's included with your UPS backup unit to your computer to easily use the software.

### Check Status Easily with LCD Display

An LCD display on the front of the unit lets you easily monitor your power status and manage the BX1500G UPS. Check your power status, input/output voltage, current load, battery charge, remaining runtime, and more.

### ENERGY STAR Certified for Energy Efficiency

The BX1500G UPS is ENERGY STAR® certified for its efficient operation and ability to help realize lower energy costs.

### Warranty and Equipment Protection Policy

This UPS is covered by a three-year limited warranty. It also comes with a lifetime equipment protection policy of up to \$150,000. APC will repair or replace attached equipment that sustains surge-related damage while properly connected to a registered Back-UPS uninterruptible power supply unit.

### Package Contents

APC Back-UPS BX1500G with 6-foot power cord, PowerChute Personal Edition software CD, USB cable, coaxial cable, and user manual.



## Technical Specifications

### Output

- Output Power Capacity: 865 Watts / 1500 VA
- Max Configurable Power: 865 Watts / 1500 VA
- Nominal Output Voltage: 120V
- Output Frequency (sync to mains): 50/60Hz +/- 3Hz
- Topology: Line Interactive
- Waveform Type: Stepped approximation to a sinewave
- Output Connections: (4) NEMA 5-15R (Battery Backup), (4) NEMA 5-15R (Surge Protection)

### Input

- Nominal Input Voltage: 120V
- Input Frequency: 50/60Hz +/- 3Hz (auto sensing)
- Input Connections: NEMA 5-15P
- Cord Length: 6 feet

### Batteries & Runtime

- Battery Type: Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leakproof
- Typical Recharge Time<sup>1</sup>: 16 hour(s)
- RBC Quantity: 1

### Communications & Management

- Interface Port(s): USB
- Control Panel: Multi-function LCD status and control console

### Surge Protection & Filtering

- Surge Energy Rating: 354 Joules
- Filtering: Full time multi-pole noise filtering : 5% IEEE surge let-through : zero clamping response time : meets UL 1449
- Data Line Protection: RJ45 10/100 Base-T Ethernet protection, Cable modem / Video protection

### Physical

- Maximum Height: 301.00 mm
- Maximum Width: 112.00 mm
- Maximum Depth: 382.00 mm
- Net Weight: 10.80 KG
- Shipping Weight: 13.35 kg
- Shipping Height: 387.00 mm
- Shipping Width: 238.00 mm
- Shipping Depth: 488.00 mm
- Color: Black

### Conformance

- Regulatory Approvals: FCC Part 15 Class B, NOM, TUV, UL 1778

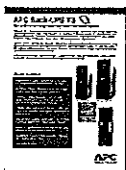
### Sustainable Offer Status

- oHS: Compliant
- REACH: Contains no SVCHCs


## Images



## Documents



[View](#) | [Download](#)

 PDF, 79K, 2 pages

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<sup>1</sup> The time to recharge to 90% of full battery capacity following a discharge to shutdown using a load rated for 1/2 the full load rating of the UPS.



# Network & Server Information



100 Southwest Blvd # A  
Newton, NC 28658-0389

San Antonio, TX 78216  
www.siriuscom.com

Quote Date: 01/07/16  
Expires: 02/08/2016  
Catawba County - C240M4-128GB Servers  
Proposal #: PR116652.1

Client Executive:  
Eric Lieblech  
Phone: (248) 226-3708  
Email:  
eric.lieblech@siriuscom.com

Part #	Description	Qty	Ext. Sale Price
UCS-SPM-C220M4-A1	UCS SP Select C220M4S Adv1 w/2xE52680 v38x16GBVIC1227 + C1	4	\$0.00
UCS-SP-C220M4-A1	UCS SP Select C220M4S Advanced1 w/2xE52680 v38x16GBVIC1227	4	\$31,692.72
CON-3SNTF-SMC220A1	3YR SNTF 24X7X4 UCS SP Select C220M4S Advanced1 w/2xE52680 v	4	\$4,910.40
UCS-CPU-E52680D	2.60 GHz E5-2680 v3/120W 12C/30MB Cache/DDR4 2133MHz	8	\$0.00
UCS-MR-1X162RU-A	16GB DDR4-2133 MHz RDIMM/PC4-17000/dual rank/x4/1.2V	32	\$0.00
UCSC-MRAID12G	Cisco 12G SAS Modular Raid Controller	4	\$0.00
UCSC-MRAID12G-1GB	Cisco 12Gbps SAS 1GB FBWC Cache module (Raid 0/1/5/9)	4	\$0.00
UCSC-MLOM-CSC-02	Cisco UCS VIC1227 VIC MLOM - Dual Port 10Gb SFP+	4	\$0.00
UCSC-PSU1-770W	770W AC Hot-Plug Power Supply for 1U C-Series Rack Server	8	\$0.00
CAB-9K12A-NA	Power Cord 125VAC-13A NEMA 5-15 Plug North America	8	\$0.00
N20-BBLK0	UCS 2.5 inch HDD blanking panel	32	\$0.00
UCSC-HS-C220M4	Heat sink for UCS C220 M4 rack servers	8	\$0.00
UCSC-RAILB-M4	Ball Bearing Rail Kit for C220 M4 and C240 M4 rack servers	4	\$0.00
UCSC-SC0BL220	Supercap cable 950mm	4	\$0.00
N20-BKVM	KVM local IO cable for UCS servers console port	4	\$0.00
C1F2PUCSK0-UCS-SPM	UCS SP Cisco ONE Foundation Perpetual UCS 1-9	4	\$2,111.52
CON-ECMUS-C1F2PUCS	SOLN SUPP SWSS Cisco ONE Foundation Perpetual UCS 1-9	4	\$4,135.76
C1-EGW-DC-K9	Cisco ONE Energy Mgmt Perpetual Lic - 1 DC End Point	4	\$0.00
C1-N1K-ESSTL	Nexus 1000V Essential Edition Qty=2	4	\$0.00
C1-PSC-F-1-K9	Cisco ONE Prime Service Catalog Foundation Per Server	4	\$0.00
C1-UCC-1	Cisco ONE Foundation UCS Central per Server	4	\$0.00
C1-UCD-VM	Cisco ONE UCS Director Foundation Compute Per Server (50 VM)	4	\$0.00
C1-UPM-EE	Cisco ONE UCS Performance Manager Express Edition	4	\$0.00
G1F2SICF8K9	Cisco ONE Foundation Subsr Intercloud Fabric For Business	4	\$0.00
CON-ECMUS-C1F2SICF	SOLN SUPP SWSS Cisco ONE Foundation Subsr Intercloud Fa	4	\$0.00
C1-ICFB2-1-LIC-K9	Cisco ONE Intercloud Fabric For Business General cloud lic	4	\$0.00
C1F2ICFB004K9	Cisco ONE Foundation ICFB General cloud 1YR 4 Hybrid Port	4	\$0.00
UCSC-PCI-E-JR445	Intel I350 Quad Port 1Gb Adapter	4	\$1,646.00
N2XX-AQPC05	Qlogic QLE2562 Dual Port 8Gb Fibre Channel HBA	4	\$8,167.84
UCS-SD-32G-S	32GB SD Card for UCS servers	4	\$266.80
QUICKSTART	VMware vSphere QuickStart Installation Services	1	\$9,000.00
SERVICES			
	Total		\$61,920.84
			*Est. Shipping and Handling \$231.14

This quote has been generated for budgetary purposes only.

Unless otherwise noted, price does not include shipping, handling or applicable tax which may be added at the time of invoice. Any shipping and handling charges contained on this proposal are estimates, which may be adjusted at the time of invoice.

This proposal is valid if ordered on or before 02/08/2016.

Until Sirius receives and accepts a Purchase Order or this Purchase Authorization for the solution proposed, pricing provided in this Proposal is subject to change based on manufacturer's pricing schedule. The Products contained on this Order may be delivered to the Customer through multiple shipments based upon supplier availability, and Customer agrees to pay a partial payment of the total purchase price stated above for any such partial shipment of Products.

All of the information provided in this Proposal is considered confidential and proprietary between Sirius and Catawba County. Information enclosed in this Proposal may not be disclosed, disseminated, or otherwise revealed to any party outside of Catawba County or any party within Catawba County who is not privileged to receive such information.

#### PURCHASE TERMS AND CONDITIONS

1. Purchase Price; Payment; Taxes. Customer agrees to pay the total purchase price as shown on the attached Sirius proposal (the "Order"), plus any applicable sales/use tax. These Purchase Terms and Conditions (the "Terms") are explicitly made a part of the Order and are hereby incorporated therein by reference. Payment is due within thirty (30) days from the date of the invoice, unless alternative terms have been agreed upon between Sirius and the client prior to the date of this proposal. Customer agrees that any payment not received by Sirius within thirty (30) days of the invoice date shall be subject to an annual interest charge of 12%, or the maximum allowed by law, whichever is less.



2. **Payment by Third Party Leasing Company.** If Customer enters into a lease agreement with a third party leasing company to finance the Order, Customer shall remain bound by these terms and conditions, except to the extent that the third party leasing company shall be obligated to pay the total purchase price of the Order. In the event the third party leasing company fails to make such payment, Customer shall make such payment, and Sirius shall convey title (where applicable) to Customer upon payment of the total purchase price of the Order.

3. **Freight Costs; Delivery.** Sirius will arrange for shipment and delivery of the Products listed in the applicable Order to the installation site. Unless specifically stated otherwise, Customer will be responsible for shipping and delivery charges. Risk of loss to the Products shall pass to Customer upon delivery at Customer's site.

4. **Title; Security Interest.** Title to each product (other than software) to be sold by Sirius hereunder shall pass to Customer upon delivery. Title to software is not being transferred and the right to use software included in the Order shall be governed by a separate license agreement between Customer and the software vendor.

5. **Returns.** No products (including Software) shall be returned to Sirius or software subscriptions cancelled by Customer without prior written approval from Sirius.

6. **Limited Warranties.** Sirius represents and warrants that, at the time each product is delivered, Sirius will be the lawful owner of such product (other than software products), free and clear from any liens and encumbrances, and will have full right, power and authority to transfer good and valid title to the same to Customer. Sirius, as the lawful/authorized reseller of the products being delivered to Customer, represents and warrants that such products will be accompanied by the applicable manufacturer's or software licensor's representations and warranties (either directly through the manufacturer/software licensor or as transferred by Sirius) in accordance with the manufacturer's/software licensor's policies. Customer agrees it is relying solely on the manufacturer's representations and warranties (except as expressly set forth above) and Sirius shall have no liability or obligations with respect to any manufacturers' representations and warranties, and any claims by Customer shall be made solely against the manufacturer.

Notwithstanding the foregoing, with respect to products that have been used and/or refurbished and therefore do not have any manufacturer's warranty, Sirius warrants that for a period of thirty (30) days immediately following the delivery of the products, such products will qualify for the manufacturer's maintenance agreement, if the products are both installed by the manufacturer and placed under the manufacturer's maintenance agreement prior to such installation within such thirty (30) day period; provided, that Customer's exclusive recourse for a breach of this warranty shall be either the repair or replacement of such refurbished equipment or a refund of the purchase price. After such thirty (30) day period, Customer assumes all liability for such products which are either defective or may be incomplete and Sirius will have no further liability or obligation with respect thereto.

As Sirius is not the manufacturer of the products listed on the Order, Customer waives any claim against Sirius based upon (i) any infringement or alleged infringement of any patent or other intellectual property rights with respect to any products sold hereunder or any software licensed by any third party or (ii) any indemnity claim or obligation made by another against Customer arising out of any such infringement or alleged infringement.

EXCEPT AS EXPRESSLY SET FORTH IN THIS SECTION, SIRIUS MAKES NO OTHER REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, TO CUSTOMER OR TO ANY OTHER PERSON OR ENTITY REGARDING PRODUCTS, SOFTWARE AND/OR SERVICES OR OTHER ITEMS PROVIDED BY SIRIUS UNDER THE ORDER OR THE RESULTS TO BE DERIVED FROM THE USE THEREOF, AND SIRIUS EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES ARISING FROM COURSE OF DEALING, USAGE OF TRADE OR COURSE OF PERFORMANCE, AND THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

7. **Limitation of Liability.** IN NO EVENT WILL SIRIUS BE LIABLE TO CUSTOMER FOR CONSEQUENTIAL, INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE, OR ANY OTHER NON-DIRECT DAMAGES INCLUDING, WITHOUT LIMITATION, LOSS OF OR DAMAGE TO DATA, LOST PROFITS OR FUTURE REVENUES, COST OF CAPITAL, LOSS OF BUSINESS REPUTATION OR OPPORTUNITY OR ANY CLAIM OR DEMAND AGAINST CUSTOMER BY ANY THIRD PARTY, HOWEVER CAUSED, WHETHER UNDER THEORY OF CONTRACT, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. SIRIUS' LIABILITY ARISING FROM OR RELATED TO THE ORDER SHALL NOT EXCEED AN AMOUNT EQUAL TO THE TOTAL AMOUNT PAID OR PAYABLE TO SIRIUS HEREUNDER. THIS LIMITATION SHALL APPLY TO THE FULLEST EXTENT PROVIDED BY LAW, AND CUSTOMER AGREES TO RELEASE SIRIUS, ITS EMPLOYEES, AFFILIATES, AND AGENTS FROM AND AGAINST ANY AND ALL LIABILITY EXCEEDING THE LIMITS STATED IN THIS PROVISION, REGARDLESS OF THE REMEDY UNDER WHICH DAMAGES ARE SOUGHT AND NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY PROVIDED HEREIN.

8. **Applicable Law.** The Order (including these Terms) and the rights and obligations of the parties hereto shall be construed under and governed by the laws of the State of Texas, without giving effect to principles of conflict of laws.

9. **Arbitration.** EACH OF THE PARTIES TO THIS AGREEMENT WAIVES ANY RIGHT TO TRIAL BY JURY OF ANY DISPUTE OF ANY NATURE WHATSOEVER THAT MAY ARISE BETWEEN THEM, INCLUDING, BUT NOT LIMITED TO, THOSE DISPUTES RELATING TO, OR INVOLVING IN ANY WAY, THE TRANSACTIONS BETWEEN THE PARTIES, THE CONSTRUCTION, PERFORMANCE OR BREACH OF THIS AGREEMENT OR ANY OTHER AGREEMENT BETWEEN THE PARTIES, THE PROVISIONS OF ANY FEDERAL, STATE OR LOCAL LAW, REGULATION OR ORDINANCE NOTWITHSTANDING. By execution of this Agreement, each of the parties hereto acknowledges and agrees that it has had an opportunity to consult with legal counsel and that he/she/it knowingly and voluntarily waives any right to a trial by jury of any dispute pertaining to or relating in any way to the transactions contemplated by this Agreement, the provisions of any federal, state or local law, regulation or ordinance notwithstanding.



10. General. The Order (including these Terms) represents the entire and integrated agreement and understanding between the parties with respect to the attached Sirius proposal and supersedes all prior or contemporaneous understandings and agreements, whether written or oral. Neither party will be liable or deemed to be in default for any delay or failure to perform its obligations hereunder if such failure results directly or indirectly from any cause beyond its reasonable control. The Order may be executed in any number of counterparts, each of which when executed and delivered (which deliveries may be made by email or facsimile) shall be deemed to be an original, and all of which counterparts taken together shall constitute but one and the same instrument. No modification of these Terms, nor waiver of any rights hereunder, shall be valid unless in writing and signed by the party against whom the modification or waiver is sought to be enforced. The waiver of any term hereof shall in no way be construed as a waiver of any other term or breach hereof. Neither the Order nor any of its rights or duties hereunder may be assigned or transferred by Customer, unless Sirius has consented to such assignment or transfer in writing. The Order does not and is not intended to confer any rights or remedies upon any person or entity other than the parties hereto. If any provision of these Terms are held by a court of competent jurisdiction to be contrary to law or otherwise invalid or unenforceable, the remaining provisions hereof shall remain in full force and effect.

The provision of the maintenance services contained on this proposal will be controlled by the terms and conditions of the applicable manufacturer and/or maintenance provider (hereinafter the "Provider"), and may be subject to auto-renewal if so provided in the applicable terms and conditions. Sirius does not guarantee any rights of termination during the term of the maintenance services contained on this proposal or any renewal term, and all refund calculations are determined solely by the applicable Provider. In the event any or all of these maintenance services are terminated in accordance with the terms and conditions of the applicable Provider, Sirius will, at Customer's option, (1) pass through to Customer all applicable credits paid to Sirius by the applicable Provider, net any related costs, or (2) hold such applicable credits on account for future purchases by Customer. If the maintenance services contained on this proposal cover multiple hardware or software components, any discounts provided in this proposal may vary between such components, and all pricing information is confidential and proprietary information of the applicable Provider.

This Proposal is subject to the terms and conditions of the above referenced Agreement(s). Acceptance of this Proposal by an authorized representative of Catawba County will be deemed the equivalent of a Client Purchase Order, which will authorize Sirius to order the Products and Services listed in this Proposal.

Accepted by:  
Catawba County

Approved by:  
Sirius Computer Solutions, Inc.

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title of Authorized Representative

\_\_\_\_\_  
Title of Authorized Representative

\_\_\_\_\_  
Date Signed

\_\_\_\_\_  
Date Signed

Ship to Address:

Bill to Address:

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\_\_\_\_\_  
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100 Southwest Blvd # A  
Newton, NC 28658-0389

San Antonio, TX 78216  
www.siriuscom.com

Quote Date: 01/13/18  
Expires: 02/11/2018  
Calawba County Chassis Budgetary  
Proposal #: PR106581.2

Client Executive:  
Tom Sherry  
Phone: (828) 989-0641  
Email:  
tom.sherry@siriuscom.com

Part #	Description	Qty	Ext. Sale Price
681844-B21	HP Prod		
	HP BLC7000 CONFIGURE-TO-ORDER PLATINUM ENCLOSURE WITH	1	\$4,999.00
	ROHS TRIAL INSIGHT CONTROL LICENSE		
E5Y41A	HP ONEVIEW INCL 3YR 24X7 SUPP ENCLOSURE FIO BUNDLE PHYS	1	\$12,350.65
	16 SVR LIC		
727021-B21	HP PROLIANT BL460C GEN9 E5-V3 10GB/20GB FLEXIBLELOM	4	\$8,044.00
	CONFIGURE-TO-ORDER BLADE SERVER		
727021-B21-0D1	FACTORY INTEGRATED	4	\$0.00
767049-L21	HP BL460C GEN9 INTEL XEON E5-2697V3	4	\$15,876.00
	(2.6GHZ/14-CORE/35MB/145W) FIO PROCESSOR KIT		
767049-B21	HP BL460C GEN9 INTEL XEON E5-2697V3	4	\$13,995.76
	(2.6GHZ/14-CORE/35MB/145W) PROCESSOR KIT		
767049-B21-0D1	FACTORY INTEGRATED	4	\$0.00
726719-B21	HP 16GB (1X16GB) DUAL RANK X4 DDR4-2133 CAS-15-15-15	32	\$8,201.92
	REGISTERED MEMORY KIT		
726719-B21-0D1	FACTORY INTEGRATED	32	\$0.00
652564-B21	HP 300GB 6G SAS 10K RPM SFF (2.5-INCH) SC ENTERPRISE	8	\$2,008.56
	3YR WARRANTY HARD DRIVE		
652564-B21-0D1	HP 300GB 6G SAS 10K 2.5IN SC ENT HDD	8	\$0.00
684214-B21	HP ETHERNET 10GB 2P 560FLB FIO ADPTR	4	\$716.00
761871-B21	HP SMART ARRAY P244BR/1GB FBWC 12GB 2-PORTS INT FIO SAS	4	\$2,396.00
	CONTROLLER		
651281-B21	HP QMH2672 8GB FIBRE CHANNEL HOST BUS ADAPTER FOR	4	\$2,993.80
	BLADESYSTEM C-CLASS		
651281-B21-0D1	HP FIBRE CHANNEL 8GB QMH2672 ADPTR	4	\$0.00
AJ821B	HP B-SERIES 8/24C SAN SWITCH FOR BLADESYSTEM C-CLASS	2	\$16,594.98
AJ821B-0D1	FACTORY INTEGRATED	2	\$0.00
641146-B21	HP CISCO B22HP FABRIC EXTENDER FOR BLADESYSTEM C-CLASS	2	\$17,276.96
641146-B21-0D1	HP BLC CISCO B22HP FABRIC EXT MODULE	2	\$0.00
AJ716B	HP 8GB SHORT WAVE B-SERIES SFP+ 1 PACK	8	\$1,043.36
AJ716B-0D1	FACTORY INTEGRATED	8	\$0.00
733460-B21	HP 6X 2650W PLATINUM HOT PLUG FIO POWER SUPPLY KIT	1	\$2,869.00
468204-B21	HP BLC7000 ONBOARD ADMINISTRATOR WITH KVM OPTION	1	\$792.53
468204-B21-0D1	FACTORY INTEGRATED	1	\$0.00
413370-B21	HP BLC7000 1 PH FIO POWER MODULE OPT	1	\$176.00
517620-B21	HP BLC 6X ACTIVE COOL 200 FACTORY INTEGRATED FAN OPTION	1	\$894.00
H7J34A3	HP 3YR FOUNDATION CARE 24X7 SERVICE	1	\$0.00
H7J34A3-7FX	HP C7000 ENCLOSURE SUPPORT	1	\$873.63
H7J34A3-85J	BROCADE 4/12 AND 4/24 SAN SWITCH SUPP	2	\$2,131.64
H7J34A3-TT8	HP BL460C GEN9 SERVER BLADE SUPPORT	4	\$3,720.20
	Subtotal		\$117,942.97
681844-B21	HP DR		
	HP BLC7000 CONFIGURE-TO-ORDER PLATINUM ENCLOSURE WITH	1	\$4,999.00
	ROHS TRIAL INSIGHT CONTROL LICENSE		
E5Y41A	HP ONEVIEW INCL 3YR 24X7 SUPP ENCLOSURE FIO BUNDLE PHYS	1	\$12,350.65
	16 SVR LIC		
727021-B21	HP PROLIANT BL460C GEN9 E5-V3 10GB/20GB FLEXIBLELOM	4	\$8,044.00
	CONFIGURE-TO-ORDER BLADE SERVER		
727021-B21-0D1	FACTORY INTEGRATED	4	\$0.00
767049-L21	HP BL460C GEN9 INTEL XEON E5-2697V3	4	\$15,876.00
	(2.6GHZ/14-CORE/35MB/145W) FIO PROCESSOR KIT		
767049-B21	HP BL460C GEN9 INTEL XEON E5-2697V3	4	\$13,995.76
	(2.6GHZ/14-CORE/35MB/145W) PROCESSOR KIT		
767049-B21-0D1	FACTORY INTEGRATED	4	\$0.00
726719-B21	HP 16GB (1X16GB) DUAL RANK X4 DDR4-2133 CAS-15-15-15	32	\$8,201.92
	REGISTERED MEMORY KIT		
726719-B21-0D1	FACTORY INTEGRATED	32	\$0.00
652564-B21	HP 300GB 6G SAS 10K RPM SFF (2.5-INCH) SC ENTERPRISE	8	\$2,008.56
	3YR WARRANTY HARD DRIVE		
652564-B21-0D1	HP 300GB 6G SAS 10K 2.5IN SC ENT HDD	8	\$0.00
684214-B21	HP ETHERNET 10GB 2P 560FLB FIO ADPTR	4	\$716.00

Part #	Description	Qty	Ext. Sale Price
701871-B21	HP SMART ARRAY P244BR/1GB FBWC 12GB 2-PORTS INT FIO SAS CONTROLLER	4	\$2,398.00
051281-B21	HP QMH2572 8GB FIBRE CHANNEL HOST BUS ADAPTER FOR BLADESYSTEM C-CLASS	4	\$2,993.80
051281-B21-0D1	HP FIBRE CHANNEL 8GB QMH2572 ADPTR	4	\$0.00
AJ821B	HP B-SERIES 8/24C SAN SWITCH FOR BLADESYSTEM C-CLASS	2	\$18,594.98
AJ821B-0D1	FACTORY INTEGRATED	2	\$0.00
041146-B21	HP CISCO B22HP FABRIC EXTENDER FOR BLADESYSTEM C-CLASS	2	\$17,276.98
041146-B21-0D1	HP BLC CISCO B22HP FABRIC EXT MODULE	2	\$0.00
AJ716B	HP 8GB SHORT WAVE B-SERIES SFP+ 1 PACK	8	\$1,043.36
AJ716B-0D1	FACTORY INTEGRATED	8	\$0.00
733480-B21	HP 6X 2850W PLATINUM HOT PLUG FIO POWER SUPPLY KIT	1	\$2,859.00
458204-B21	HP BLC7000 ONBOARD ADMINISTRATOR WITH KVM OPTION	1	\$792.63
458204-B21-0D1	FACTORY INTEGRATED	1	\$0.00
413379-B21	HP BLC7000 1 PH FIO POWER MODULE OPT	1	\$175.00
517620-B21	HP BLC 6X ACTIVE COOL 200 FACTORY INTEGRATED FAN OPTION	1	\$884.00
H7J34A3	HP 3YR FOUNDATION CARE 24X7 SERVICE	1	\$0.00
H7J34A3-7FX	HP C7000 ENCLOSURE SUPPORT	1	\$873.63
H7J34A3-86J	BROCADE 4/12 AND 4/24 SAN SWITCH SUPP	2	\$2,131.04
H7J34A3-TT8	HP BL460C GEN9 SERVER BLADE SUPPORT	4	\$3,720.20
	Subtotal		\$117,942.97
VMware Prod			
VS6-OSTD-AK-C	VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT STANDARD ACCELERATION KIT FOR 6 PROCESSORS	1	\$9,995.00
VS6-OSTD-AK-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION VMWARE VSPHERE WITH OPERATIONS MANAGEMENT STANDARD ACCELERATION KIT FOR 6 PROCESSORS FOR 3 YEARS	1	\$10,208.24
VS6-OSTD-C-L2	VPP L2 VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT STANDARD FOR 1 PROCESSOR	2	\$3,280.60
VS6-OSTD-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT STANDARD FOR 3 YEARS	2	\$2,302.08
	Subtotal		\$25,783.92
VMware DR			
VS6-OSTD-AK-C	VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT STANDARD ACCELERATION KIT FOR 6 PROCESSORS	1	\$9,995.00
VS6-OSTD-AK-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION VMWARE VSPHERE WITH OPERATIONS MANAGEMENT STANDARD ACCELERATION KIT FOR 6 PROCESSORS FOR 3 YEARS	1	\$10,208.24
VS6-OSTD-C-L2	VPP L2 VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT STANDARD FOR 1 PROCESSOR	2	\$3,280.60
VS6-OSTD-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT STANDARD FOR 3 YEARS	2	\$2,302.08
	Subtotal		\$25,783.92
VMware SRM			
VC-SRM6-25S-C-L2	VPP L2 VMWARE VCENTER SITE RECOVERY MANAGER 6 STANDARD (25 VM PACK)	1	\$4,582.50
VC-SRM6-25S-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION FOR VMWARE VCENTER SITE RECOVERY MANAGER 6 STANDARD (25 VM PACK) FOR 3 YEARS	1	\$3,218.10
	Subtotal		\$7,800.60
Nexus 9504 Bundle Production - Justice Center			
G1-N9K-C9504-B2	Cisco ONE Nexus 9504 Chassis Bun 1 Sup3 PS2 SC6 FM3 FT	2	\$89,892.48
CON-3SNTP-G1N9KC4B	3YR SNTC 24X7X4 Cisco ONE Nexus 9504 Chassis Bun 1 Sup3	2	\$46,948.38
N9K-C9500-P-CV	Nexus 9500 Power Supply slot cover	2	\$0.00
N9K-C9500-LC-CV	Nexus 9500 Linecard slot cover	2	\$0.00
N9K-C9500-ACK	Nexus 9500 Accessory Kit	2	\$0.00
N9K-C9504-FM	Fabric Module for Nexus 9504 chassis	12	\$0.00
N9K-C9504-FAN	Fan Tray for Nexus 9504 chassis Port-side Intake	6	\$0.00
NXOS-70312.2	Nexus 9500 9300 3000 Base NX-OS Software Rel 7.0(3)12(2)	2	\$0.00
CAB-C19-CBN	Cabinet Jumper Power Cord 250 VAC 16A C20-C19 Connectors	6	\$0.00

Part #	Description	Qty	Ext. Sale Price
N9K-C9504-RMK	Nexus 9504 Rack Mount Kit	2	\$0.00
N9K-SC-A	System Controller for Nexus 9500	4	\$0.00
C1F2PNEX9500K9	Cisco ONE Foundation Perpetual Nexus 9500	2	\$32,688.16
CON-ECMU-C1F2PNE9	SWSS UPGRADES Cisco ONE Foundation Perpetual Nexus 950	2	\$22,084.62
N95-SERVICES1K9	Nexus 9500 Network Services (includes ITD)	2	\$0.00
C1-NDB-SWT-K9	Cisco ONE Tap/SPAN Agg Lic for 1 Cisco Nexus Switch	2	\$0.00
N95-LAN1K9	LAN Enterprise License for Nexus 9500 Platform	2	\$0.00
C1-EGW-DC-K9	Cisco ONE Energy Mgmt Perpetual Lic - 1 DC End Point	2	\$0.00
C1-PI-LFAS-N9K-K9	Cisco ONE PI Device License for LF & AS for Nexus 9K	2	\$0.00
C1-DCL-N95-K9	Cisco ONE DCNM for LAN Advanced EdL for Nexus 9500 switches	2	\$0.00
N9K-SELECT-SUP-A	PID to select Supervisor: N9K-SUP-A	2	\$0.00
N9K-SUP-A	Supervisor for Nexus 9500	2	\$0.00
N9K-SUP-A	Supervisor for Nexus 9500	2	\$10,752.68
NIK-VLCPU-95-ESSTL	Nexus 1000V Essential Edition Paper Delivery License Qty 98	2	\$0.00
N9K-SELECT-C95PAC	PID to select Power Supply: N9K-PAC-3000W-B	6	\$0.00
N9K-PAC-3000W-B	Nexus 9500 3000WAC PS Port-side Intake	6	\$0.00
N9K-X9464PX	Nexus 9500 linecard 48p 1/10G SFP+ & 4p QSFP	2	\$16,129.02
N9K-X9464PX	Nexus 9500 linecard 48p 1/10G SFP+ & 4p QSFP	2	\$16,129.02
SFP-10G-LR-S	10GBASE-LR SFP Module Enterprise-Class	38	\$38,774.36
QSFP-H40G-AOC3M	40GBASE Active Optical Cable 3m	2	\$913.98
SFP-10G-LR-S	10GBASE-LR SFP Module Enterprise-Class	38	\$38,774.36
QSFP-H40G-AOC3M	40GBASE Active Optical Cable 3m	2	\$913.98
N9K-X9464TX	Nexus 9500 linecard 48p 1/10G-T & 4p QSFP	2	\$16,129.02
C1-C2980X-48FPD-L	Catalyst 2980-X 48 GgE PoE 740W 2 x 10G SFP+ LAN Base	17	\$73,072.63
CON-3SNTC-24X7X4	3YR SNTC 24X7X4 Cat 2980-X 48 GgE PoE 740W2x10G SFP+	17	\$31,687.02
CAB-16AWG-AC	AC Power cord 16AWG	17	\$0.00
C1FPCAT29002K9	Cisco ONE Foundation Perpetual - Catalyst 2900 48 Port	17	\$1,828.01
CON-ECMU-C1FPC292	SWSS UPGRADES C1 FND Perpetual - Cat2900 48 Port	17	\$1,233.86
C1-EGW-50-K9	Cisco ONE Energy Mgmt Perpetual Lic - 50 DO End Points	17	\$0.00
C1-ISE-BASE-48P	Cisco ONE Identity Services Engine 50 EndPoint Base Lic	17	\$0.00
C1-PI-LFAS-2K3K-K9	Cisco ONE PI Device License for LF & AS for Cat 2k 3k	17	\$0.00
WS-C3650-48PQ-S	Cisco Catalyst 3650 48 Port PoE 4x10G Uplink IP Base	1	\$6,397.85
CON-3SNTC-WSC36PQS	3YR SNTC 24X7X4 Cisco Catalyst 3650 48 Port PoE 4x10G Up	1	\$2,803.23
S3650UK9-37E	CAT3650 Universal k9 Image	1	\$0.00
PWR-C2-640WAC	640W AC Config 2 Power Supply	1	\$0.00
PWR-C2-640WAC/2	640W AC Config 2 Secondary Power Supply	1	\$510.76
CAB-TA-NA	North America AC Type A Power Cable	2	\$0.00
STACK-T2-BLANK	Type 2 Stacking Blank	1	\$0.00
SFP-H10GB-CU6M=	10GBASE-CU SFP+ Cable 6 Meter	4	\$322.66
	Subtotal		\$422,966.86
<b>Nexus 3K : DR</b>			
N3K-C3172PQ-10GE=	Nexus 3172P 48 x SFP+ and 6 QSFP+ ports	1	\$9,938.71
CON-3SNTC-N3172P10	3YR SNTC 24X7X4 Nexus 3172P 48 x SFP,	1	\$4,342.74
SFP-10G-SR=	10GBASE-SR SFP Module	2	\$1,089.86
SFP-H10GB-CU1.5M=	10GBASE-CU SFP+ Cable 1.5 Meter	4	\$215.04
	Subtotal		\$15,486.37
<b>VNX and 2x MDS Switches Prod</b>			
FLV62S6F-200	VNXE 3200 200GB FAST CACHE 25X2.5	3	\$2,838.42
V32D12AN5QT26	VNXE3200;2XSP DPE;25X2.5 DS;25X600GB 16K	1	\$6,031.84
V32-DAE-26	2U DAE WITH 25 X 2.5 INCH DRIVE SLOTS	1	\$1,089.46
V32-PWR-12	2 C13 PWRCRD W/ NEMA 5-16 PLUGS 125V 10A	3	\$0.00
V6-2S16-000	VNXE3200 800GB 16K SAS 25X2.5	1	\$283.36
V32-8GFC	ONE 4 PORT 8GB FIBRE CHANNEL IO MODULE	2	\$911.94
W-BASHW-001	BASIC HARDWARE WARRANTY	1	\$0.00
M-PREHWE-002	PREMIUM HARDWARE SUPPORT	1	\$1,177.98
WU-PREHWE-02	PREMIUM HW SUPPORT-WARR UPG	1	\$1,004.19
VNXEPERFTB	VNXE OE PER TB PERFOR FOR VNXE3200	1	\$139.40
M-PRESWE-002	PREMIUM SW SUPPORT	1	\$36.42



Part #	Description	Qty	Ext. Sale Price
W-ENHSW-001	ENHANCED SOFTWARE WARRANTY	1	\$0.00
458-000-888	VNXE3200 REMOTE PROTECTION=IC	1	\$0.00
M-PRESWE-002	PREMIUM SW SUPPORT	1	\$0.00
458-000-402	VNXE3200 FAST SUITE=IC	1	\$0.00
M-PRESWE-002	PREMIUM SW SUPPORT	1	\$0.00
458-000-400	VNXE3200 BASE DUAL SP ECOSYS=IC	1	\$1,589.38
M-PRESWE-002	PREMIUM SW SUPPORT	1	\$868.07
RP-LNX-GPL	RECOVERPOINT LINUX GPLV3 DISTRIBUTION	1	\$0.00
458-000-225	RP/EX ADV PROTECTION FOR VNXE3200 PROD	1	\$0.00
M-PRESW-001	PREMIUM SOFTWARE SUPPORT	1	\$0.00
PSINST-ESRS	ZERO DOLLAR ESRS INSTALL	1	\$0.00
PS-BAS-RCVRPT	RECOVERPOINT FIXED	1	\$8,808.73
CE-VALPAKRP	RECOVERPOINT VALUEPAK	1	\$1,411.33
	Subtotal		\$26,178.80
	VNX and 2x MDS Switches DR		
FLV0256F200	VNXE 3200 200GB FAST CACHE 25X2.5	3	\$2,838.42
V32D12AN50T26	VNXE3200 2XSP DPE 25X2.5 DS 25X600GB 16K	1	\$8,031.84
V32-DAE-26	2U DAE WITH 25 X 2.5 INCH DRIVE SLOTS	1	\$1,089.46
V32-PWR12	2 C13 PWR CORD W/ NEMA 5-15 PLUGS 125V 10A	3	\$0.00
V0-2S15-600	VNXE3200 600GB 16K SAS 25X2.5	1	\$283.36
V32-80FC	ONE 4 PORT 8GB FIBRE CHANNEL IO MODULE	2	\$911.94
W-BASHW-001	BASIC HARDWARE WARRANTY	1	\$0.00
M-PREHW-002	PREMIUM HARDWARE SUPPORT	1	\$1,177.98
WU-PREHW-02	PREMIUM HW SUPPORT WARR UPG	1	\$1,004.10
VNXE PER TB	VNXE OE PER TB PERFOR FOR VNXE3200	1	\$139.40
M-PRESWE-002	PREMIUM SW SUPPORT	1	\$36.42
W-ENHSW-001	ENHANCED SOFTWARE WARRANTY	1	\$0.00
458-000-888	VNXE3200 REMOTE PROTECTION=IC	1	\$0.00
M-PRESWE-002	PREMIUM SW SUPPORT	1	\$0.00
458-000-402	VNXE3200 FAST SUITE=IC	1	\$0.00
M-PRESWE-002	PREMIUM SW SUPPORT	1	\$0.00
458-000-400	VNXE3200 BASE DUAL SP ECOSYS=IC	1	\$1,589.38
M-PRESWE-002	PREMIUM SW SUPPORT	1	\$868.07
RP-LNX-GPL	RECOVERPOINT LINUX GPLV3 DISTRIBUTION	1	\$0.00
458-000-225	RP/EX ADV PROTECTION FOR VNXE3200 PROD	1	\$0.00
M-PRESW-001	PREMIUM SOFTWARE SUPPORT	1	\$0.00
PSINST-ESRS	ZERO DOLLAR ESRS INSTALL	1	\$0.00
PS-BAS-RCVRPT	RECOVERPOINT FIXED	1	\$8,808.73
CE-VALPAKRP	RECOVERPOINT VALUEPAK	1	\$1,411.33
MDS-9148S-12	MDS 9148S 16GB SWITCH 12 ACTIVE PORTS	4	\$5,038.52
MDS-SFP-8GSW	2/4/8 GBPS FC SHORTWAVE SWITCH SFP LC	48	\$2,772.00
MDS-PWR-US	QTY 2 9210 9120 9124 9140 POWER CORD US	4	\$0.00
W-ENHHW-001	ENHANCED HARDWARE WARRANTY	1	\$0.00
WU-PREHW-001	PREMIUM HARDWARE SUPPORT WARR UPG	1	\$361.63
	Subtotal		\$34,340.56
HW INFRASTRUCTURE ACTIVITY	Block of Hours - 160 Hours Estimate SOW Required		\$34,400.00
	Total		\$628,605.71

\*Est. Shipping and Handling \$2,399.26

For Budgetary Purposes only

Unless otherwise noted, price does not include shipping, handling or applicable tax which may be added at the time of invoice. Any shipping and handling charges contained on this proposal are estimates, which may be adjusted at the time of invoice.

This proposal is valid if ordered on or before 02/11/2016.

Until Sirius receives and accepts a Purchase Order or this Purchase Authorization for the solution proposed, pricing provided in this Proposal is subject to change based on manufacturer's pricing schedule. The Products contained on this Order may be delivered to the Customer through multiple shipments based upon supplier availability, and Customer agrees to pay a partial payment of the total purchase price stated above for any such partial shipment of Products.

All of the information provided in this Proposal is considered confidential and proprietary between Sirius and Catawba County. Information enclosed in this Proposal may not be disclosed, disseminated, or otherwise revealed to any party outside of Catawba County or any party within Catawba County who is not privileged to receive such information.





## PURCHASE TERMS AND CONDITIONS

1. **Purchase Price; Payment; Taxes.** Customer agrees to pay the total purchase price as shown on the attached Sirius proposal (the "Order"), plus any applicable sales/use tax. These Purchase Terms and Conditions (the "Terms") are explicitly made a part of the Order and are hereby incorporated therein by reference. Payment is due within thirty (30) days from the date of the Invoice, unless alternative terms have been agreed upon between Sirius and the client prior to the date of this proposal. Customer agrees that any payment not received by Sirius within thirty (30) days of the Invoice date shall be subject to an annual interest charge of 12%, or the maximum allowed by law, whichever is less.

2. **Payment by Third Party Leasing Company.** If Customer enters into a lease agreement with a third party leasing company to finance the Order, Customer shall remain bound by these terms and conditions, except to the extent that the third party leasing company shall be obligated to pay the total purchase price of the Order. In the event the third party leasing company fails to make such payment, Customer shall make such payment, and Sirius shall convey title (where applicable) to Customer upon payment of the total purchase price of the Order.

3. **Freight Costs; Delivery.** Sirius will arrange for shipment and delivery of the Products listed in the applicable Order to the installation site. Unless specifically stated otherwise, Customer will be responsible for shipping and delivery charges. Risk of loss to the Products shall pass to Customer upon delivery at Customer's site.

4. **Title; Security Interest.** Title to each product (other than software) to be sold by Sirius hereunder shall pass to Customer upon delivery. Title to software is not being transferred and the right to use software included in the Order shall be governed by a separate license agreement between Customer and the software vendor.

5. **Returns.** No products (including Software) shall be returned to Sirius or software subscriptions cancelled by Customer without prior written approval from Sirius.

6. **Limited Warranties.** Sirius represents and warrants that, at the time each product is delivered, Sirius will be the lawful owner of such product (other than software products), free and clear from any liens and encumbrances, and will have full right, power and authority to transfer good and valid title to the same to Customer. Sirius, as the lawful/authorized reseller of the products being delivered to Customer, represents and warrants that such products will be accompanied by the applicable manufacturer's or software licensor's representations and warranties (either directly through the manufacturer/software licensor or as transferred by Sirius) in accordance with the manufacturer's/software licensor's policies. Customer agrees it is relying solely on the manufacturer's representations and warranties (except as expressly set forth above) and Sirius shall have no liability or obligations with respect to any manufacturers' representations and warranties, and any claims by Customer shall be made solely against the manufacturer.

Notwithstanding the foregoing, with respect to products that have been used and/or refurbished and therefore do not have any manufacturer's warranty, Sirius warrants that for a period of thirty (30) days immediately following the delivery of the products, such products will qualify for the manufacturer's maintenance agreement, if the products are both installed by the manufacturer and placed under the manufacturer's maintenance agreement prior to such installation within such thirty (30) day period; provided, that Customer's exclusive recourse for a breach of this warranty shall be either the repair or replacement of such refurbished equipment or a refund of the purchase price. After such thirty (30) day period, Customer assumes all liability for such products which are either defective or may be incomplete and Sirius will have no further liability or obligation with respect thereto.

As Sirius is not the manufacturer of the products listed on the Order, Customer waives any claim against Sirius based upon (i) any infringement or alleged infringement of any patent or other intellectual property rights with respect to any products sold hereunder or any software licensed by any third party or (ii) any indemnity claim or obligation made by another against Customer arising out of any such infringement or alleged infringement.

EXCEPT AS EXPRESSLY SET FORTH IN THIS SECTION, SIRIUS MAKES NO OTHER REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, TO CUSTOMER OR TO ANY OTHER PERSON OR ENTITY REGARDING PRODUCTS, SOFTWARE AND/OR SERVICES OR OTHER ITEMS PROVIDED BY SIRIUS UNDER THE ORDER OR THE RESULTS TO BE DERIVED FROM THE USE THEREOF, AND SIRIUS EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES ARISING FROM COURSE OF DEALING, USAGE OF TRADE OR COURSE OF PERFORMANCE, AND THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

7. **Limitation of Liability.** IN NO EVENT WILL SIRIUS BE LIABLE TO CUSTOMER FOR CONSEQUENTIAL, INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE, OR ANY OTHER NON-DIRECT DAMAGES INCLUDING, WITHOUT LIMITATION, LOSS OF OR DAMAGE TO DATA, LOST PROFITS OR FUTURE REVENUES, COST OF CAPITAL, LOSS OF BUSINESS REPUTATION OR OPPORTUNITY OR ANY CLAIM OR DEMAND AGAINST CUSTOMER BY ANY THIRD PARTY, HOWEVER CAUSED, WHETHER UNDER THEORY OF CONTRACT, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. SIRIUS' LIABILITY ARISING FROM OR RELATED TO THE ORDER SHALL NOT EXCEED AN AMOUNT EQUAL TO THE TOTAL AMOUNT PAID OR PAYABLE TO SIRIUS HEREUNDER. THIS LIMITATION SHALL APPLY TO THE FULLEST EXTENT PROVIDED BY LAW, AND CUSTOMER AGREES TO RELEASE SIRIUS, ITS EMPLOYEES, AFFILIATES, AND AGENTS FROM AND AGAINST ANY AND ALL LIABILITY EXCEEDING THE LIMITS STATED IN THIS PROVISION, REGARDLESS OF THE REMEDY UNDER WHICH DAMAGES ARE SOUGHT AND NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY PROVIDED HEREIN.

8. **Applicable Law.** The Order (including these Terms) and the rights and obligations of the parties hereto shall be construed under and governed by the laws of the State of Texas, without giving effect to principles of conflict of laws.

9. Arbitration. EACH OF THE PARTIES TO THIS AGREEMENT WAIVES ANY RIGHT TO TRIAL BY JURY OF ANY DISPUTE OF ANY NATURE WHATSOEVER THAT MAY ARISE BETWEEN THEM, INCLUDING, BUT NOT LIMITED TO, THOSE DISPUTES RELATING TO, OR INVOLVING IN ANY WAY, THE TRANSACTIONS BETWEEN THE PARTIES, THE CONSTRUCTION, PERFORMANCE OR BREACH OF THIS AGREEMENT OR ANY OTHER AGREEMENT BETWEEN THE PARTIES, THE PROVISIONS OF ANY FEDERAL, STATE OR LOCAL LAW, REGULATION OR ORDINANCE NOTWITHSTANDING. By execution of this Agreement, each of the parties hereto acknowledges and agrees that it has had an opportunity to consult with legal counsel and that he/she/it knowingly and voluntarily waives any right to a trial by jury of any dispute pertaining to or relating in any way to the transactions contemplated by this Agreement, the provisions of any federal, state or local law, regulation or ordinance notwithstanding.

10. General. The Order (including these Terms) represents the entire and integrated agreement and understanding between the parties with respect to the attached Sirius proposal and supersedes all prior or contemporaneous understandings and agreements, whether written or oral. Neither party will be liable or deemed to be in default for any delay or failure to perform its obligations hereunder if such failure results directly or indirectly from any cause beyond its reasonable control. The Order may be executed in any number of counterparts, each of which when executed and delivered (which deliveries may be made by email or facsimile) shall be deemed to be an original, and all of which counterparts taken together shall constitute but one and the same instrument. No modification of these Terms, nor waiver of any rights hereunder, shall be valid unless in writing and signed by the party against whom the modification or waiver is sought to be enforced. The waiver of any term hereof shall in no way be construed as a waiver of any other term or breach hereof. Neither the Order nor any of its rights or duties hereunder may be assigned or transferred by Customer, unless Sirius has consented to such assignment or transfer in writing. The Order does not and is not intended to confer any rights or remedies upon any person or entity other than the parties hereto. If any provision of these Terms are held by a court of competent jurisdiction to be contrary to law or otherwise invalid or unenforceable, the remaining provisions hereof shall remain in full force and effect.

The provision of the maintenance services contained on this proposal will be controlled by the terms and conditions of the applicable manufacturer and/or maintenance provider (hereinafter the "Provider"), and may be subject to auto-renewal if so provided in the applicable terms and conditions. Sirius does not guarantee any rights of termination during the term of the maintenance services contained on this proposal or any renewal term, and all refund calculations are determined solely by the applicable Provider. In the event any or all of these maintenance services are terminated in accordance with the terms and conditions of the applicable Provider, Sirius will, at Customer's option, (1) pass through to Customer all applicable credits paid to Sirius by the applicable Provider, net any related costs, or (2) hold such applicable credits on account for future purchases by Customer. If the maintenance services contained on this proposal cover multiple hardware or software components, any discounts provided in this proposal may vary between such components, and all pricing information is confidential and proprietary information of the applicable Provider.

Pricing for these services will be set forth in a separate Statement of Work between Customer and Sirius.

Your contract number(s), currently on file for EMC and VMware line items only, is as follows:

Agreement Type: State Contracts

Agreement Number: North Carolina EMC State Contract 204J and North Carolina VMware State Contract 208V

Sirius' standard terms and conditions apply to non-EMC and non-VMware line items on this proposal

Sirius has met the State of North Carolina's contract pricing for Cisco

This Proposal is subject to the terms and conditions of the above referenced Agreement(s). Acceptance of this Proposal by an authorized representative of Catawba County will be deemed the equivalent of a Client Purchase Order, which will authorize Sirius to order the Products and Services listed in this Proposal.



Accepted by:  
Catawba County

Approved by:  
Sirius Computer Solutions, Inc.

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title of Authorized Representative

\_\_\_\_\_  
Title of Authorized Representative

\_\_\_\_\_  
Date Signed

\_\_\_\_\_  
Date Signed

Ship to Address:

Bill to Address:

\_\_\_\_\_  
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VC-SRM6-25S-C-L2	VMware SRM VPP L2 VMWARE VCENTER SITE RECOVERY MANAGER 6 STANDARD (25 VM PACK)	1	\$4,582.50
VC-SRM6-25S-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION FOR VMWARE VCENTER SITE RECOVERY MANAGER 6 STANDARD (25 VM PACK) FOR 3 YEARS	1	\$3,218.16
	Subtotal		\$7,800.66

N3K-C3172PQ-10GE=  
CON-3SNTP-N3172P10  
SFP-10G-SR=  
SFP-H10GB-CU1-5M=

**Nexus 3K - DR**

Nexus 3172P 48 x SFP+ and 6 QSFP+ ports  
3YR SNTC 24X7X4 Nexus 3172P 48 x SFP  
10GBASE-SR SFP Module  
10GBASE-CU SFP+ Cable 1.5 Meter  
Subtotal

1	\$9,838.71
1	\$4,342.74
2	\$1,069.88
4	\$215.04
	<b>\$15,466.37</b>

FLV62S6F-200	VNX and 2x MDS Switches DR		
V32D12AN5QT25	VNXE 3200 200GB FAST CACHE 25X2.5	3	\$2,838.42
V32-DAE-25	VNXE3200;2XSP DPE;25X2.5 DS;25X600GB 15K	1	\$6,031.84
V32-PWR-12	2U.DAE WITH 25 X 2.5 INCH DRIVE SLOTS	1	\$1,089.45
V6-2S15-600	2 C13 PWRCRD W/ NEMA 5-15 PLUGS 125V 10A	3	\$0.00
V32-8GFC	VNXE3200 600GB 15K SAS 25X2.5	1	\$283.35
W-BASHW-001	ONE 4 PORT 8GB FIBRE CHANNEL IO MODULE	2	\$911.94
M-PREHWE-002	BASIC HARDWARE WARRANTY	1	\$0.00
WU-PREHWE-02	PREMIUM HARDWARE SUPPORT	1	\$1,177.98
VNXEPERFTB	PREMIUM HW SUPPORT-WARR UPG	1	\$1,004.19
M-PRESWE-002	VNXE OE PER TB PERFOR FOR VNXE3200	1	\$139.40
W-ENHSW-001	PREMIUM SW SUPPORT	1	\$36.42
458-000-868	ENHANCED SOFTWARE WARRANTY	1	\$0.00
M-PRESWE-002	VNXE3200 REMOTE PROTECTION=IC	1	\$0.00
458-000-402	PREMIUM SW SUPPORT	1	\$0.00
M-PRESWE-002	VNXE3200 FAST SUITE=IC	1	\$0.00
458-000-400	PREMIUM SW SUPPORT	1	\$0.00
M-PRESWE-002	VNXE3200 BASE DUAL SP ECOSYS=IC	1	\$1,589.38
RP-LNX-GPL	PREMIUM SW SUPPORT	1	\$858.07
458-000-225	RECOVERPOINT LINUX GPLV3 DISTRIBUTION	1	\$0.00
M-PRESW-001	RP/EX ADV PROTECTION FOR VNXE3200 PROD	1	\$0.00
PSINST-ESRS	PREMIUM SOFTWARE SUPPORT	1	\$0.00
PS-BAS-RCVRPT	ZERO DOLLAR ESRS INSTALL	1	\$0.00
CE-VALPAKRP	RECOVERPOINT FIXED	1	\$8,806.73
MDS-9148S-12	RECOVERPOINT VALUEPAK	1	\$1,411.33
MDS-SFP-8GSW	MDS-9148S 16GB SWITCH - 12 ACTIVE PORTS	4	\$5,038.52
MDS-PW8-US	2/4/8-GBPS FC SHORTWAVE SWITCH SFP LC	48	\$2,772.00
W-ENHHW-001	QTY 2 9216 9120 9124 9140 POWER CORD US	4	\$0.00
WU-PREHW-001	ENHANCED HARDWARE WARRANTY	1	\$0.00
	PREMIUM HARDWARE SUPPORT - WARR UPG	1	\$351.53
	Subtotal		\$34,340.55



100 SouthWest Blvd # A  
Newton, NC 28658-0389

San Antonio, TX 78216  
www.siriuscom.com

Quote Date: 08/09/15  
Expires: 08/27/2015  
Quote 1/HP, Blades, VNXe, vSphere and SRM  
Proposal #: PR85500.1

Client Executive:  
Eric Lieblich  
Phone: (248) 225-3708  
Email:  
eric.lieblich@siriuscom.com

Part #	Description	Qty	Ext. Sale Price
681844-B21	1x HP Chassis + 4 blades - Production		
	HP BLC7000 PLATINUM CONFIGURE-TO-ORDER ENCLOSURE WITH ROHS TRIAL INSIGHT CONTROL LICENSE	1	\$4,423.36
E5Y41A	HP ONEVIEW INCL 3YR 24X7 SUPP ENCLOSURE FIO BUNDLE PHYS 16 SVR LIC	1	\$11,166.95
727021-B21	HP PROLIANT BL460C GEN9 E5-V3 10GB/20GB FLEXIBLELOM CONFIGURE-TO-ORDER BLADE SERVER	4	\$7,117.72
727021-B21-0D1	FACTORY INTEGRATED	4	\$0.00
767049-L21	HP BL460C GEN9 INTEL XEON E5-2697V3 (2.6GHZ/14-CORE/35MB/145W) FIO PROCESSOR KIT	4	\$14,047.84
767049-B21	HP BL460C GEN9 INTEL XEON E5-2697V3 (2.6GHZ/14-CORE/35MB/145W) PROCESSOR KIT	4	\$14,047.84
767049-B21-0D1	FACTORY INTEGRATED	4	\$0.00
726719-B21	HP 16GB (1X16GB) DUAL RANK X4 DDR4-2133 CAS-15-15-15 REGISTERED MEMORY KIT	32	\$11,297.60
726719-B21-0D1	FACTORY INTEGRATED	32	\$0.00
652664-B21-0D1	HP 300GB 6G SAS 10K 2.5IN SC ENT HDD	8	\$0.00
684214-B21	HP ETHERNET 10GB 2P 660FLB FIO ADPTR	4	\$530.92
761871-B21	HP SMART ARRAY P244BR/1GB FBWC 12GB 2-PORTS INT FIO SAS CONTROLLER	4	\$2,120.08
651281-B21	HP QMH2572 8GB FIBRE CHANNEL HOST BUS ADAPTER	4	\$3,004.96
651281-B21-0D1	HP FIBRE CHANNEL 8GB QMH2572 ADPTR	4	\$0.00
AJ821B	HP B-SERIES 8/24C SAN SWITCH FOR BLADESYSTEM C-CLASS	2	\$16,824.98
AJ821B-0D1	FACTORY INTEGRATED	2	\$0.00
641146-B21	HP CISCO B22HP FABRIC EXTENDER FOR BLADESYSTEM C-CLASS	2	\$17,341.26
641146-B21-0D1	HP BLC CISCO B22HP FABRIC EXT MODULE	2	\$0.00
AJ716B	HP 8GB SHORT WAVE B-SERIES SFP+ 1 PACK	8	\$1,322.24
AJ716B-0D1	FACTORY INTEGRATED	8	\$0.00
733460-B21	HP 6X 2650W PLATINUM HOT PLUG POWER SUPPLY KIT	1	\$2,520.78
456204-B21	HP BLC7000 ONBOARD ADMINISTRATOR WITH KVM OPTION	1	\$795.48
456204-B21-0D1	FACTORY INTEGRATED	1	\$0.00
413379-B21	HP BLC7000 1 PH FIO POWER MODULE OPT	1	\$154.85
617620-B21	HP BLC 6X ACTIVE COOL 200 FIO FAN OPT	1	\$791.05
H7J34A3	HP 3YR FOUNDATION CARE 24X7 SERVICE	1	\$0.00
H7J34A3-7FX	HP C7000 ENCLOSURE SUPPORT	1	\$876.88
H7J34A3-86J	BROCADE 4/12 AND 4/24 SAN SWITCH SUPP	2	\$2,227.48
H7J34A3-TT8	HP BL460C GEN9 SERVER BLADE SUPPORT	4	\$3,887.62
	Subtotal		\$114,498.79
681844-B21	1x HP Chassis + 4 blades - DR		
	HP BLC7000 PLATINUM CONFIGURE-TO-ORDER ENCLOSURE WITH ROHS TRIAL INSIGHT CONTROL LICENSE	1	\$4,423.36
E5Y41A	HP ONEVIEW INCL 3YR 24X7 SUPP ENCLOSURE FIO BUNDLE PHYS 16 SVR LIC	1	\$11,166.95
727021-B21	HP PROLIANT BL460C GEN9 E5-V3 10GB/20GB FLEXIBLELOM CONFIGURE-TO-ORDER BLADE SERVER	4	\$7,117.72
727021-B21-0D1	FACTORY INTEGRATED	4	\$0.00
767049-L21	HP BL460C GEN9 INTEL XEON E5-2697V3 (2.6GHZ/14-CORE/35MB/145W) FIO PROCESSOR KIT	4	\$14,047.84
767049-B21	HP BL460C GEN9 INTEL XEON E5-2697V3 (2.6GHZ/14-CORE/35MB/145W) PROCESSOR KIT	4	\$14,047.84
767049-B21-0D1	FACTORY INTEGRATED	4	\$0.00
726719-B21	HP 16GB (1X16GB) DUAL RANK X4 DDR4-2133 CAS-15-15-15 REGISTERED MEMORY KIT	32	\$11,297.60
726719-B21-0D1	FACTORY INTEGRATED	32	\$0.00
652664-B21-0D1	HP 300GB 6G SAS 10K 2.5IN SC ENT HDD	8	\$0.00
684214-B21	HP ETHERNET 10GB 2P 660FLB FIO ADPTR	4	\$530.92
761871-B21	HP SMART ARRAY P244BR/1GB FBWC 12GB 2-PORTS INT FIO SAS CONTROLLER	4	\$2,120.08
651281-B21	HP QMH2572 8GB FIBRE CHANNEL HOST BUS ADAPTER	4	\$3,004.96

Part #	Description	Qty	Ext. Sale Price
651281-B21-0D1	HP FIBRE CHANNEL 8GB QMH2572 ADPTR	4	\$0.00
AJ821B	HP B-SERIES 8/24C SAN SWITCH FOR BLADESYSTEM	2	\$16,824.88
	C-CLASS		
AJ821B-0D1	FACTORY INTEGRATED	2	\$0.00
641146-B21	HP CISCO B22HP FABRIC EXTENDER FOR BLADESYSTEM	2	\$17,341.28
	C-CLASS		
641146-B21-0D1	HP BLC CISCO B22HP FABRIC EXT MODULE	2	\$0.00
AJ716B	HP 8GB SHORT WAVE B-SERIES SFP+ 1 PACK	8	\$1,322.24
AJ716B-0D1	FACTORY INTEGRATED	8	\$0.00
733460-B21	HP 6X 2650W PLATINUM HOT PLUG POWER SUPPLY KIT	1	\$2,629.78
456204-B21	HP BLC7000 ONBOARD ADMINISTRATOR WITH KVM OPTION	1	\$785.48
456204-B21-0D1	FACTORY INTEGRATED	1	\$0.00
413378-B21	HP BLC7000 1 PH FIO POWER MODULE OPT	1	\$154.85
517520-B21	HP BLC 6X ACTIVE COOL 200 FIO FAN OPT	1	\$791.05
H7J34A3	HP 3YR FOUNDATION CARE 24X7 SERVICE	1	\$0.00
H7J34A3-7FX	HP C7000 ENCLOSURE SUPPORT	1	\$878.88
H7J34A3-85J	BROCADE 4/12 AND 4/24 SAN SWITCH SUPP	2	\$2,227.48
H7J34A3-TT8	HP BL460C GEN9 SERVER BLADE SUPPORT	4	\$3,887.52
	Subtotal		\$114,498.79
1x VNXe + 2x MDSs - Production			
V32D12AN5QS25	VNXe3200;2xSP DPE;26x2.5 DS;26x800GB 10K	1	\$11,791.62
V32-DAE-25	2U DAE WITH 26 x 2.5 INCH DRIVE SLOTS	1	\$2,695.16
FLV82S6F-200	VNXe 3200 200GB FAST CACHE 25X2.5	3	\$7,901.82
V6-2S10-600	VNXe 3200 600GB 10K SAS 25X2.5	6	\$3,025.44
V32-PWR-12	2 C13 PWRCRD W/ NEMA 5-15 PLUGS 125V 10A	3	\$0.00
VNXE-LS-SN	VNXe LICENSE SOLUTION PSNT AS LAC	1	\$0.00
456-104-909	VNXE3200 FAST SUITE =IC	1	\$0.00
456-104-905	VNXE3200 BASE DUAL SP ECOSYS =IC	1	\$3,785.45
456-106-747	VNXE3200 Remote Protection=IC	1	\$0.00
PSINST-ESRS	ZERO DOLLAR ESRS INSTALL	1	\$0.00
M-PRESWE-002	PREMIUM SW SUPPORT	1	\$2,389.09
WU-PREHWE-02	PREMIUM HW SUPPORT-WARR UPG	1	\$2,477.58
VNXEPERFTB	VNXE OE PER TB PERFOR FOR VNXe3200	4	\$1,658.16
V32-8GFC	ONE 4 Port 8GB Fibre Channel IO Module	2	\$2,172.12
MDS-PW8-CAB	Qty 2 Cabinet Power Cord	2	\$0.00
FC10M-62MLC	LC/LC 62.5 FC CABLE 10M	8	\$1,270.32
MDS-9148S-12	MDS-9148S 16Gb Switch - 12 active ports	2	\$5,995.14
M-PREHW-001	PREMIUM HARDWARE SUPPORT	1	\$2,143.03
WU-PREHW-001	PREMIUM HARDWARE SUPPORT - WARR UPG	1	\$631.62
MDS-SFP-8GSW	2/4/8-GBPS FC SHORTWAVE SWITCH SFP LC	24	\$3,287.28
	Subtotal		\$51,123.62
1x VNXe + 2x MDSs - DR			
V32D12AN5QS25	VNXe3200;2xSP DPE;26x2.5 DS;26x800GB 10K	1	\$11,791.62
V32-DAE-25	2U DAE WITH 26 x 2.5 INCH DRIVE SLOTS	1	\$2,695.16
FLV82S6F-200	VNXe 3200 200GB FAST CACHE 25X2.5	3	\$7,901.82
V6-2S10-600	VNXe 3200 600GB 10K SAS 25X2.5	6	\$3,025.44
V32-PWR-12	2 C13 PWRCRD W/ NEMA 5-15 PLUGS 125V 10A	3	\$0.00
VNXE-LS-SN	VNXe LICENSE SOLUTION PSNT AS LAC	1	\$0.00
456-104-909	VNXE3200 FAST SUITE =IC	1	\$0.00
456-104-905	VNXE3200 BASE DUAL SP ECOSYS =IC	1	\$3,785.45
456-106-747	VNXE3200 Remote Protection=IC	1	\$0.00
PSINST-ESRS	ZERO DOLLAR ESRS INSTALL	1	\$0.00
M-PRESWE-002	PREMIUM SW SUPPORT	1	\$2,389.09
WU-PREHWE-02	PREMIUM HW SUPPORT-WARR UPG	1	\$2,477.58
VNXEPERFTB	VNXE OE PER TB PERFOR FOR VNXe3200	4	\$1,658.16
V32-8GFC	ONE 4 Port 8GB Fibre Channel IO Module	2	\$2,172.12
MDS-PW8-CAB	Qty 2 Cabinet Power Cord	2	\$0.00
FC10M-62MLC	LC/LC 62.5 FC CABLE 10M	8	\$1,270.32
MDS-9148S-12	MDS-9148S 16Gb Switch - 12 active ports	2	\$5,995.14
M-PREHW-001	PREMIUM HARDWARE SUPPORT	1	\$2,143.03
WU-PREHW-001	PREMIUM HARDWARE SUPPORT - WARR UPG	1	\$631.62





Part #	Description	Qty	Ext. Sale Price
MDS-SFP-8GSW	2/4/8-GBPS FC SHORTWAVE SWTCH SFP LC	24	\$3,287.28
	Subtotal		\$51,123.62
VS6-OSTD-C-L2	VMware vSphere Licensing - Production VPP L2 VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT STANDARD FOR 1 PROCESSOR		\$3,280.60
VS6-OSTD-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION VMWARE VSPHERE 6 2 WITH OPERATIONS MANAGEMENT STANDARD FOR 3 YEARS		\$2,302.08
VS6-OSTD-AK-C	VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT STANDARD ACCELERATION KIT FOR 6 PROCESSORS	1	\$9,995.00
VS6-OSTD-AK-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION VMWARE VSPHERE 1 WITH OPERATIONS MANAGEMENT STANDARD ACCELERATION KIT FOR 6 PROCESSORS FOR 3 YEARS	1	\$10,208.24
	Subtotal		\$25,783.92
VS6-OSTD-C-L2	VMware vSphere Licensing - DR VPP L2 VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT STANDARD FOR 1 PROCESSOR		\$3,280.60
VS6-OSTD-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION VMWARE VSPHERE 6 2 WITH OPERATIONS MANAGEMENT STANDARD FOR 3 YEARS		\$2,302.08
VS6-OSTD-AK-C	VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT STANDARD ACCELERATION KIT FOR 6 PROCESSORS	1	\$9,995.00
VS6-OSTD-AK-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION VMWARE VSPHERE 1 WITH OPERATIONS MANAGEMENT STANDARD ACCELERATION KIT FOR 6 PROCESSORS FOR 3 YEARS	1	\$10,208.24
	Subtotal		\$25,783.92
VC-SRM6-25S-C-L2	VMware SRM - Both Sites VPP L2 VMWARE VCENTER SITE RECOVERY MANAGER 6 STANDARD (25 VM PACK)	1	\$4,682.50
VC-SRM6-25S-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION FOR VMWARE VCENTER SITE RECOVERY MANAGER 6 STANDARD (25 VM PACK) FOR 3 YEARS		\$3,218.16
	Subtotal		\$7,800.66
	Total		\$390,813.32

Unless otherwise noted, price does not include shipping, handling, or applicable tax which may be added at the time of invoice.

This proposal is valid if ordered on or before 08/27/2015.

Until Sirius receives and accepts a Purchase Order or this Purchase Authorization for the solution proposed, pricing provided in this Proposal is subject to change based on manufacturer's pricing schedule. The Products contained on this Order may be delivered to the Customer through multiple shipments based upon supplier availability, and Customer agrees to pay a partial payment of the total purchase price stated above for any such partial shipment of Products.

All of the information provided in this Proposal is considered confidential and proprietary between Sirius and Catawba County. Information enclosed in this Proposal may not be disclosed, disseminated, or otherwise revealed to any party outside of Catawba County or any party within Catawba County who is not privileged to receive such information.

#### PURCHASE TERMS AND CONDITIONS

1. Purchase Price; Payment; Taxes. Customer agrees to pay the total purchase price as shown on the attached Sirius proposal (the "Order"), plus any applicable sales/use tax. These Purchase Terms and Conditions (the "Terms") are explicitly made a part of the Order and are hereby incorporated therein by reference. Payment is due within thirty (30) days from the date of the invoice, unless alternative terms have been agreed upon between Sirius and the client prior to the date of this proposal. Customer agrees that any payment not received by Sirius within thirty (30) days of the invoice date shall be subject to an annual interest charge of 12%, or the maximum allowed by law, whichever is less.



2. **Payment by Third Party Leasing Company.** If Customer enters into a lease agreement with a third party leasing company to finance the Order, Customer shall remain bound by these terms and conditions, except to the extent that the third party leasing company shall be obligated to pay the total purchase price of the Order. In the event the third party leasing company fails to make such payment, Customer shall make such payment, and Sirius shall convey title (where applicable) to Customer upon payment of the total purchase price of the Order.

3. **Freight Costs; Delivery.** Sirius will arrange for shipment and delivery of the Products listed in the applicable Order to the installation site. Unless specifically stated otherwise, Customer will be responsible for shipping and delivery charges. Risk of loss to the Products shall pass to Customer upon delivery at Customer's site.

4. **Title; Security Interest.** Title to each product (other than software) to be sold by Sirius hereunder shall pass to Customer upon delivery. Title to software is not being transferred and the right to use software included in the Order shall be governed by a separate license agreement between Customer and the software vendor.

5. **Returns.** No products (including Software) shall be returned to Sirius or software subscriptions cancelled by Customer without prior written approval from Sirius.

6. **Limited Warranties.** Sirius represents and warrants that, at the time each product is delivered, Sirius will be the lawful owner of such product (other than software products), free and clear from any liens and encumbrances, and will have full right, power and authority to transfer good and valid title to the same to Customer. Sirius, as the lawful/authorized reseller of the products being delivered to Customer, represents and warrants that such products will be accompanied by the applicable manufacturer's or software licensor's representations and warranties (either directly through the manufacturer/software licensor or as transferred by Sirius) in accordance with the manufacturer's/software licensor's policies. Customer agrees it is relying solely on the manufacturer's representations and warranties (except as expressly set forth above) and Sirius shall have no liability or obligations with respect to any manufacturer's representations and warranties, and any claims by Customer shall be made solely against the manufacturer.

Notwithstanding the foregoing, with respect to products that have been used and/or refurbished and therefore do not have any manufacturer's warranty, Sirius warrants that for a period of thirty (30) days immediately following the delivery of the products, such products will qualify for the manufacturer's maintenance agreement, if the products are both installed by the manufacturer and placed under the manufacturer's maintenance agreement prior to such installation within such thirty (30) day period; provided, that Customer's exclusive recourse for a breach of this warranty shall be either the repair or replacement of such refurbished equipment or a refund of the purchase price. After such thirty (30) day period, Customer assumes all liability for such products which are either defective or may be incomplete and Sirius will have no further liability or obligation with respect thereto.

As Sirius is not the manufacturer of the products listed on the Order, Customer waives any claim against Sirius based upon (i) any infringement or alleged infringement of any patent or other intellectual property rights with respect to any products sold hereunder or any software licensed by any third party or (ii) any indemnity claim or obligation made by another against Customer arising out of any such infringement or alleged infringement.

EXCEPT AS EXPRESSLY SET FORTH IN THIS SECTION, SIRIUS MAKES NO OTHER REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, TO CUSTOMER OR TO ANY OTHER PERSON OR ENTITY REGARDING PRODUCTS, SOFTWARE AND/OR SERVICES OR OTHER ITEMS PROVIDED BY SIRIUS UNDER THE ORDER OR THE RESULTS TO BE DERIVED FROM THE USE THEREOF, AND SIRIUS EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES ARISING FROM COURSE OF DEALING, USAGE OF TRADE OR COURSE OF PERFORMANCE, AND THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

7. **Limitation of Liability.** IN NO EVENT WILL SIRIUS BE LIABLE TO CUSTOMER FOR CONSEQUENTIAL, INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE, OR ANY OTHER NON-DIRECT DAMAGES INCLUDING, WITHOUT LIMITATION, LOSS OF OR DAMAGE TO DATA, LOST PROFITS OR FUTURE REVENUES, COST OF CAPITAL, LOSS OF BUSINESS REPUTATION OR OPPORTUNITY OR ANY CLAIM OR DEMAND AGAINST CUSTOMER BY ANY THIRD PARTY, HOWEVER CAUSED, WHETHER UNDER THEORY OF CONTRACT, TORT (INCLUDING NEGLIGENCE) OR OTHERWISE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. SIRIUS' LIABILITY ARISING FROM OR RELATED TO THE ORDER SHALL NOT EXCEED AN AMOUNT EQUAL TO THE TOTAL AMOUNT PAID OR PAYABLE TO SIRIUS HEREUNDER. THIS LIMITATION SHALL APPLY TO THE FULLEST EXTENT PROVIDED BY LAW, AND CUSTOMER AGREES TO RELEASE SIRIUS, ITS EMPLOYEES, AFFILIATES, AND AGENTS FROM AND AGAINST ANY AND ALL LIABILITY EXCEEDING THE LIMITS STATED IN THIS PROVISION, REGARDLESS OF THE REMEDY UNDER WHICH DAMAGES ARE SOUGHT AND NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF ANY LIMITED REMEDY PROVIDED HEREIN.

8. **Applicable Law.** The Order (including these Terms) and the rights and obligations of the parties hereto shall be construed under and governed by the laws of the State of Texas, without giving effect to principles of conflict of laws.

9. **Arbitration.** EACH OF THE PARTIES TO THIS AGREEMENT WAIVES ANY RIGHT TO TRIAL BY JURY OF ANY DISPUTE OF ANY NATURE WHATSOEVER THAT MAY ARISE BETWEEN THEM, INCLUDING, BUT NOT LIMITED TO, THOSE DISPUTES RELATING TO, OR INVOLVING IN ANY WAY, THE TRANSACTIONS BETWEEN THE PARTIES, THE CONSTRUCTION, PERFORMANCE OR BREACH OF THIS AGREEMENT OR ANY OTHER AGREEMENT BETWEEN THE PARTIES, THE PROVISIONS OF ANY FEDERAL, STATE OR LOCAL LAW, REGULATION OR ORDINANCE NOTWITHSTANDING. By execution of this Agreement, each of the parties hereto acknowledges and agrees that it has had an opportunity to consult with legal counsel and that he/she/it knowingly and voluntarily waives any right to a trial by jury of any dispute pertaining to or relating in any way to the transactions contemplated by this Agreement, the provisions of any federal, state or local law, regulation or ordinance notwithstanding.



10. General. The Order (including these Terms) represents the entire and integrated agreement and understanding between the parties with respect to the attached Sirius proposal and supersedes all prior or contemporaneous understandings and agreements, whether written or oral. Neither party will be liable or deemed to be in default for any delay or failure to perform its obligations hereunder if such failure results directly or indirectly from any cause beyond its reasonable control. The Order may be executed in any number of counterparts, each of which when executed and delivered (which deliveries may be made by email or facsimile) shall be deemed to be an original, and all of which counterparts taken together shall constitute but one and the same instrument. No modification of these Terms, nor waiver of any rights hereunder, shall be valid unless in writing and signed by the party against whom the modification or waiver is sought to be enforced. The waiver of any term hereof shall in no way be construed as a waiver of any other term or breach hereof. Neither the Order nor any of its rights or duties hereunder may be assigned or transferred by Customer, unless Sirius has consented to such assignment or transfer in writing. The Order does not and is not intended to confer any rights or remedies upon any person or entity other than the parties hereto. If any provision of these Terms are held by a court of competent jurisdiction to be contrary to law or otherwise invalid or unenforceable, the remaining provisions hereof shall remain in full force and effect.

The provision of the maintenance services contained on this proposal will be controlled by the terms and conditions of the applicable manufacturer and/or maintenance provider (hereinafter the "Provider"), and may be subject to auto-renewal if so provided in the applicable terms and conditions. Sirius does not guarantee any rights of termination during the term of the maintenance services contained on this proposal or any renewal term, and all refund calculations are determined solely by the applicable Provider. In the event any or all of these maintenance services are terminated in accordance with the terms and conditions of the applicable Provider, Sirius will, at Customer's option, (1) pass through to Customer all applicable credits paid to Sirius by the applicable Provider, net any related costs, or (2) hold such applicable credits on account for future purchases by Customer. If the maintenance services contained on this proposal cover multiple hardware or software components, any discounts provided in this proposal may vary between such components, and all pricing information is confidential and proprietary information of the applicable Provider.

This Proposal is subject to the terms and conditions of the above referenced Agreement(s). Acceptance of this Proposal by an authorized representative of Catawba County will be deemed the equivalent of a Client Purchase Order, which will authorize Sirius to order the Products and Services listed in this Proposal.

Accepted by:  
Catawba County

Approved by:  
Sirius Computer Solutions, Inc.

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Signature of Authorized Representative

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Title of Authorized Representative

\_\_\_\_\_  
Title of Authorized Representative

\_\_\_\_\_  
Date Signed

\_\_\_\_\_  
Date Signed

Ship to Address:  
  
\_\_\_\_\_  
  
\_\_\_\_\_  
  
\_\_\_\_\_

Bill to Address:  
  
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\_\_\_\_\_

VS6-OSTD-C-L2	VMware vSphere Licensing - DR VPP L2 VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT STANDARD FOR 1 PROCESSOR	\$3,280.60
VS6-OSTD-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION VMWARE VSPHERE 6 2 WITH OPERATIONS MANAGEMENT STANDARD FOR 3 YEARS	\$2,302.08
VS6-OSTD-AK-C	VMWARE VSPHERE 6 WITH OPERATIONS MANAGEMENT 1 STANDARD ACCELERATION KIT FOR 6 PROCESSORS	\$9,995.00
VS6-OSTD-AK-3P-SSS-C	PRODUCTION SUPPORT/SUBSCRIPTION VMWARE VSPHERE 1 WITH OPERATIONS MANAGEMENT STANDARD ACCELERATION KIT FOR 6 PROCESSORS FOR 3 YEARS	\$10,206.24
	<b>Subtotal</b>	<b>\$25,783.92</b>

# PC Workstation and Software Information



**Public Sector Sales**

November 23, 2016

COUNTY OF CATAWBA  
100-A S WEST BLVD  
NEWTON NC 28658

RE : HP Public Sector Quote - 10757939

Dear Scott Buxton,

Thank you for your recent interest in HP Public Sector Sales. Award-winning HP products are designed to deliver high-performance technology, powerful networking and legendary HP quality - all at a value that your budget demands. From Notebook PCs to Printers, HP provides a single resource for complete solutions that meet all your computing needs. You can rely on HP for the performance, uptime, and efficiency you need to keep your agency running smoothly and hassle-free. Every HP product is designed and tested to provide industry-standard compatibility and investment protection. And, with special maintenance services, easy ordering and flexible financing, HP makes buying the right solution for your organization easier and more convenient than ever.

Attached is the price quotation you requested. When submitting a purchase order directly to HP, please be certain to include the requested information on the Ordering Information page attached to this quotation. Including the necessary information will ensure the accurate and timely processing of your order through HP Public Sector.

you may [click here to view this quote and place an order online](#) or fax in your purchase order at 800-825-2329.

-Please reference this contract: NC - STATE OF NORTH CAROLINA (204A) Contract (204A-ITS-007825) terms and conditions.

-The terms and conditions of the NC - STATE OF NORTH CAROLINA (204A) Contract (204A-ITS-007825) will apply to any order placed as a result of this inquiry; no other terms or conditions shall apply.

- Third party items that may be included in this quote are covered under the terms of the manufacturer warranty, not the HP Inc. warranty.

- This quotation may contain open market products which are sold in accordance with HP's Standard Terms and Conditions.

If you should have questions regarding this quotation or need any other assistance, please contact your Public Sector sales representative.

Sincerely,

**JD Williams**

Inside sales representative

(888) 202-4682 ext. 7713596

**PRICE QUOTATION**

Page 1 of 2

Quote Number: 10757939

Quote Date : November 23, 2015

Revised Date : November 23, 2015

Expires: December 23, 2015

Provided by: JD Williams

Scott Buxton

COUNTY OF CATAWBA

Big Deal Number: 93122638

Contract: NC - STATE OF NORTH CAROLINA (204A) (204A-ITS-007825)

Product availability and product discontinuation is subject to change without notice. The prices in this quotation are valid for 30 days from quote date above. Please include the quote number and contract from this quote on the corresponding purchase order. HP INC. PROPRIETARY INFORMATION FOR CUSTOMER USE ONLY. DO NOT SHARE.

Item	Part No.	Description	Qty.	Unit Price	Extended
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Group:

1.		Configurable- HP Z440 Microsoft Windows Workstation - F5W13AV	1	\$1,876.32	\$1,876.32
	F5W13AV	Product - HP Z440 Microsoft Windows Workstation			
	N2G46AV#ABA	Operating systems - Win 10 Pro 64 Downgrade Win 7 64 (Within any region, any localization may be selected. Only #B1L or #AB2 localization allowed for China. No other non-China countries allowed to get #B1L or #AB2 OS)			
	G8T96AV	Chassis configuration - HP Z440 700W 90Percent Efficient Chassis			
	G8T99AV	Add-On Selection - HP Z4 Fan and Front Card Guide Kit			
	F5W14AV#ABA	Country kit - HP Z440 Country Kit			
	J1P69AV	Graphics - NVIDIA NVS 510 2GB 4x mDP 1st w/4 mDP-DP cables Graphics			
	J9N91AV	Internal OS Load Storage Options - Operating System Load to PCIe (Must select PCIe Storage)			
	J3H96AV	Internal PCIe Storage - HP Z Turbo Drive 256GB PCIe 1st SSD (Front fan card guide required. Not supported with SAS Controller)			
	J3H77AV	Internal storage - 500GB 7200 RPM SATA 1st Hard Drive			
	G8U08AV#ABA	Keyboard - HP USB Keyboard			
	G8U19AV	Mouse - HP USB Optical Mouse			
	F5W18AV	Optical drive - Slim SuperMulti DVDRW SATA 1st ODD			
	G8U24AV	Packaging - HP Single Unit Packaging			
	J6S69AV	Processor - Intel Xeon E5-1630v3 3.70GHz 10MB 2133 4C CPU			
	G8U32AV	Memory - 16GB DDR4-2133 (2x8GB) Registered RAM			
	G8U40AV	Technical AV - HP Processor Air Cooling Kit (Must Order with Processor 1. Not supported with 3D Vapor Cooler (N3R51AV)			
	F5W21AV#ABA	Warranty - HP 3/3/3 Warranty			
SUB TOTAL :					\$1,876.32

**TOTAL PRICE :****\$1,876.32**

To ensure the accurate and timely processing of your order, please include quote # 10757939 on your Purchase Order.

Note: For detailed warranty information, please link to "URL" for more information [www.hp.com/go/specificwarrantyinfo](http://www.hp.com/go/specificwarrantyinfo).

Sales taxes added where applicable. Freight is FOB Destination.

**PRICE QUOTATION**

Page 2 of 2

Quote Number: 10757939

Quote Date : November 23, 2015

Revised Date : November 23, 2015

Expires: December 23, 2015

Provided by: JD Williams

Scott Buxton

COUNTY OF CATAWBA

Big Deal Number: 93122638

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Item	Part No.	Description	Qty.	Unit Price	Extended
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**GET MORE FOR YOUR MONEY**

Make the most of your budget and protect against technology obsolescence. Lease these HP products with a purchase price of \$1,876.32 for 36 months for as little as \$58.26 per month. At the end of the lease, send the equipment back to HP Financial Services and upgrade to new technology or purchase the equipment at its fair market value.\*

**GET MORE WITH HP FINANCIAL SERVICES**

For more information, call Hewlett-Packard Financial Services Company at 1-888-277-5942 and talk to a financial services representative who specializes in supporting government and education entities.

\* The monthly payment amount is for a lease commencing on or before 12/23/2015 with a term of 36 months and a fair market value purchase option at the end of the lease term. This and other leasing and financing options are available through Hewlett-Packard Financial Service Company (HPFSC) or one of its affiliates to qualified education and state and local customers in the U.S. and subject to credit approval and execution of standard HPFSC documentation. Fees and other restrictions may apply. This is not a commitment to lease. Rates and payments are subject to change at any time without notice. Leasing and financing options for Federal governmental agencies (subject to a \$50,000 minimum) are available from Hewlett-Packard Company.

Comments:





# Quote 1023015641922.1

## CATAWBA COUNTY ITC

### Salesperson

Salesperson Name  
Stephanie Mak

Salesperson Email  
Stephanie\_Mak@Dell.com

Salesperson Phone  
18009993355

Salesperson Extension  
5138204

### Quote Details

Quote Date  
12/16/2015

Quote Validity  
01/15/2016

Solution ID  
-

### Billing Details

Company Name  
CATAWBA COUNTY ITC

Customer Number  
3598554

Phone Number  
1 (828) 4658356

Address  
PO BOX 389  
100 A SW BLVD  
NEWTON  
NC  
28658-0389  
US

### Price Summary

Description	Quantity	Unit Price	Subtotal Price
Dell 24 Monitor - E2416H	72	\$167.19	\$12,037.68
Subtotal			\$12,037.68
Tax			\$870.29
Shipping and Handling			\$395.00
Environmental Fee			\$0.00
Total			\$13,302.97

Only using  
24 for  
back up center

Not listed on the invoice.

Dear Customer,

Your quote is detailed below; please review the quote for product and information accuracy.  
If you find errors or desire changes, please contact me as soon as possible.

Regards,  
Stephanie Mak

Order this quote easily online through your [Premier page](#), or if you do not have Premier, using [Quote to Order](#)

## Product Details

### Shipping Details

Shipping Contact: GLASS SAVANNAH  
Shipping Phone No: 1 (828) 4658356  
Shipping via: Standard Ground  
Shipping Address: 100A SOUTH WEST BLVD  
INFORMATION  
TECHNOLOGY  
NEWTON  
NC 28658  
US

### Product Price Details

Subtotal	\$12,037.68
Tax	\$870.29
Shipping and Handling	\$395.00
Environmental Fee	\$0.00
Total	\$13,302.97

Description	Quantity	Unit Price	Subtotal Price
Dell 24 Monitor - E2416H	72	\$167.19	\$12,037.68

Estimated Delivery Date: 12/24/2015  
Contract Code: 22agn  
Customer Agreement No: 204A

860-BBFS	Dell 24 Monitor - E2416H	72	-	-
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## Important Notes

### Terms of Sale

This quote is valid for 30 days unless otherwise stated. Unless you have a separate written agreement with Dell that specifically applies to this order, your order will be subject to and governed by the following agreements, each of which are incorporated herein by reference and available in hardcopy from Dell at your request:

If this purchase is for your internal use only: Dell's Commercial Terms of Sale (<http://www.dell.com/CTS>), which incorporate Dell's U.S. Return Policy ([www.dell.com/returnpolicy](http://www.dell.com/returnpolicy)) and Warranty ([www.dell.com/warrantyterms](http://www.dell.com/warrantyterms)).

If this purchase is intended for resale: Dell's Reseller Terms of Sale ([www.dell.com/resellerterms](http://www.dell.com/resellerterms)).

If this purchase includes services: in addition to the foregoing applicable terms, Dell's service contracts and related service terms ([www.dell.com/servicecontracts/global](http://www.dell.com/servicecontracts/global)).

If this purchase includes software: in addition to the foregoing applicable terms, your use of the software is subject to the license terms accompanying the software, and in the absence of such terms, then use of the Dell-branded application software is subject to the Dell End User License Agreement - A Version ([www.dell.com/AEULA](http://www.dell.com/AEULA)) and use of the Dell-branded system software is subject to the Dell End User License Agreement - S Version ([www.dell.com/SEULA](http://www.dell.com/SEULA)).

You acknowledge having read and agree to be bound by the foregoing applicable terms in their entirety. Any terms and conditions set forth in your purchase order or any other correspondence that are in addition to, inconsistent or in conflict with, the foregoing applicable online terms will be of no force or effect unless specifically agreed to in a writing signed by Dell that expressly references such terms.

### Pricing, Taxes, and Additional Information

All product, pricing, and other information is valid for U.S. customers and U.S. addresses only, and is based on the latest information available and may be subject to change. Dell reserves the right to cancel quotes and orders arising from pricing or other errors. Please indicate any tax-exempt status on your PO, and fax your exemption certificate, including your Customer Number, to the Dell Tax Department at 800-433-9023. Please ensure that your tax-exemption certificate reflects the correct Dell entity name: Dell Marketing L.P. Note: All tax quoted above is an estimate; final taxes will be listed on the invoice. If you have any questions regarding tax please send an e-mail to [Tax\\_Department@dell.com](mailto:Tax_Department@dell.com).

For certain products shipped to end-users in California, a State Environmental Fee will be applied to your invoice. Dell encourages customers to dispose of electronic equipment properly.

## Office 2013 / Office 2016 pricing

Stephanie L Pannell

Sent: Thursday, November 19, 2015 11:36 AM

To: Brian A Drum; Barbara Wager

Cc: Tony Regan; Stephanie L Pannell

SHI – software house international (gov contract for office)

Office Professional Plus 2013 – License price: \$333.48 each.

Qty: 21 \* \$333.48 = \$7,003.08

### Equipment Breakdown:

12 for 911 center

3 Barbara, Brian, and spare

6 Hky Backup Site

*Thanks,*

*Stephanie Pannell*

*IT Manager*

*stephpannell@catavbacountync.gov*

*828-465-8912 (office)*

*828-455-9639 (mobile)*

---

**From:** Brock, Worth [wbrock@ncsbl.gov]  
**Sent:** Tuesday, November 24, 2015 10:28 AM  
**To:** Stephanie L Pannell  
**Cc:** Brian A Drum; Barbara Wager; Tony Regan; Peggy H. Eades  
**Subject:** RE: dci/ncic access 911 Center

Hi Stephanie,

Yes, you would need a separate TID/ORI for each CAD device. Even if the CAD and Omnixx reside on the same PC, they would each need their own ORI/TID for DCI access.

CAD TIDs are the same cost as Omnixx desktop TIDs, \$25 per month, per TID.

I have attached the TID request form is needed. I can also assist you with completing the form if there are questions.

Thanks.

Worth Brock

Business and Technical Applications

NC Department of Public Safety

3320 Garner Road - Bldg 18

Raleigh, NC 27610

Phone: (919) 582-8484

[wbrock@ncdoj.gov](mailto:wbrock@ncdoj.gov)

## Proposal/Sales Quotation

Quotation #Q-00016730

Quotation Date: 3/27/2015

### General & Client Information

<b>System Name:</b> Catawba County Comm Ctr, NC Back-up Licenses for EOC 3-27-15  <b>System Description:</b>  <b>Client Contact:</b> Stephanie Pannell <b>Contact Phone:</b> (828) 465-8912 <b>Contact Email:</b> stephpannell@catawbacountync.gov  <b>Expiration Date:</b>  <b>Presented By:</b> Angle Shepherd	<b>Bill To:</b> Catawba County Communications Center 100 A Southwest Blvd Newton, NC 28658 USA  <b>Ship To:</b> 100 A Southwest Blvd Newton, NC 28658 USA
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### Project Products & Services

#### Project Related Fees(s)

Product Name	Unit Price	Qty	Total Price
Project Management	\$327.60	1	\$327.60
Estimated Travel Expenses (To be billed as Incurred)	\$0.00	1	\$0.00

**Project Related Fee(s) Total:** \$327.60

#### Thrd Party Products and/or Services

Product Name	Unit Price	Qty	Total Price
GeoComm Add-on GeoLynx Remote Installation Services Per Seat	\$390.00	6	\$2,340.00

**Thrd Party Products and/or Services Total:** \$2,340.00

#### Annual Maintenance Fee(s) (Year 1)

Product Name	Support Level	Annual Maintenance Amount
GeoComm GeoLynx Desktop Backup Position Support and Maintenance		\$2,402.40

**Annual Maintenance Fee(s) (Year 1) Total:** \$2,402.40

**Project Total: \$5,070.00**

Estimated Sales Tax:  
(State: at %)

Taxable sales: \$0.00

Subtotal: \$5,070.00

Sales Tax Amount: \$0.00

**Quote Total: \$5,070.00**

### **Terms and Conditions**

#### **Payment terms are as follows:**

50% of all Software, Services, Support and fixed travel fees are due at time of order -and- 50% of all Software, Services, Support and fixed travel fees are due upon installation or completion of services (whichever comes later). 100% of Third Party amount will be invoiced upon acceptance of this quote and is due within 30 days.

#### **Sales Tax:**

Any estimated sales and/or use tax has been calculated as of the date of quotation and is provided as a convenience for budgetary purposes. TriTech reserves the right to adjust and collect sales and/or use tax at the actual date of invoicing, at the then current rates. Your organization must provide TriTech with a copy of a current tax exemption certificate issued by your state's taxing authority for the given jurisdiction, when your order is placed, if you are exempt from sales tax.

#### **Third Party Terms:**

Third party items will be licensed, warranted and supported in accordance with the applicable vendor's warranty and support terms. Applicable third party support agreements shall be entered into directly between Client and the vendor. TriTech shall not be a party to any such vendor agreements.

The third party hardware and software included in this quote complies with TriTech's software system requirements. Any items not specifically listed will be provided by the Client. Hardware provided by Client must meet TriTech's minimum recommended hardware specifications.

This quote includes the first year of support and maintenance for 3rd party hardware and/or software. Future years support and maintenance must be obtained by contacting the manufacturer directly unless otherwise stated.

Return of third party software will be based upon the vendor's return policy. If the software cannot be returned to the vendor after it has been issued to the Client, the Client will be responsible for paying the full amount for the third party software.

#### **General Terms:**

The items in this quotation are based upon meetings and communications with the Client and unless attached to a contract form the entirety of the deliverables from TriTech.

The scope of Deliverables for this order will be limited to the Software, Services, and Support and Maintenance that is explicitly listed herein for the listed quantities.

This order provides Software licenses as well as required deployment services only for the environments that are explicitly listed herein (Production, Test, Training, Disaster Recovery, etc.) These software licenses do not apply to any other existing environments, or environments that may be implemented in the future.

Changes in the scope of certain components of the System may impact the cost and timelines for other areas of the Project.

All services will be performed during normal business hours, unless otherwise stated in this quotation for specific service deliverables.

Deployment and Implementation of TriTech Software and Services are based upon Client's provision and compliance with TriTech's System Planning Document.

TriTech reserves the right to adjust this Quotation as a result of changes including but not limited to project scope, deliverables (TriTech Software, or third party software or hardware, including changes in the hardware manufacturer's specifications), services, interface requirements, and Client requested enhancements.

Installation Services will be performed based on the quantities that are listed in this quotation, and as listed for each environment. One installation line item does not include installation services in multiple environments.

Quotation Issued by: Angle Shepherd  
Email: [angle.shepherd@tritech.com](mailto:angle.shepherd@tritech.com)  
Phone: (910) 602-4064

Send Purchase Orders To:

TriTech Software Systems  
9477 Waples Street, Suite 100  
San Diego, CA 92121

Or Email: [salesadmin@tritech.com](mailto:salesadmin@tritech.com)  
Or Fax: (858) 799-7015

Remit Payments To:

TriTech Software Systems  
PO Box # 203223  
Dallas, TX 75320-3226

**Accepted for Client**

By signing below, you are indicating that you are authorized to obligate funds for your organization. To activate your order, check the appropriate box below and, either, (I) attach a copy of this quotation to your purchase order when it is remitted to TriTech, or, (II) if no additional authorizing paperwork is required for your organization to accept and pay an invoice, sign below and fax this quotation to 858-799-7015 or email to [salesadmin@tritech.com](mailto:salesadmin@tritech.com) to indicate your acceptance.

- ☐ Purchase Order required and attached, reference PO# \_\_\_\_\_ on invoice.  
☐ No Purchase Order required to invoice.

Please check one of the following:

- ☐ I agree to pay any applicable sales tax.  
☐ I am tax exempt. Please contact me if TriTech does not have my current exempt information on file.

Client Agency/Entity Name \_\_\_\_\_

Client Authorized Representative \_\_\_\_\_

Signature Client Authorized Representative \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_





110 South Regent Street, Suite 500  
Salt Lake City, UT 84111  
(801) 363-9127 \* (801) 363-9144 fax  
(800) 363-9127 toll-free

## Sales Quote #123815

by Dixon Brown

Date 1/7/2016

Bill To: Catawba Co. E -911 Communications Center  
Attn: Jerry Boggs  
PO Box 389  
Newton, NC 28658

Ship To: Catawba Co. E -911 Communications Center  
Attn: Jerry Boggs  
PO Box 389  
Newton, NC 28658

For: Catawba Co. E -911 Communications Center  
Attn: Jerry Boggs  
PO Box 389  
Newton, NC 28658

Phone: 828-465-8330 Fax: 704-465-1220

Qty	Description	Unit Price	Extended Price
6	ProQA Software Licenses (Medical - Paramount - Standard - North American English) Automated calltaking software	\$3,500.00	\$17,500.00 <del>3,500.00</del> \$1,000.00
6	Backup Cardset (Medical - 13.0 - Standard - North American English) Licensed manual protocol set for backup	\$495.00	\$2,970.00
1	Annual Maintenance - Basic Package (ESP) for Cardsets (Medical - Standard - North American English) License renewal, service and support	\$294.00	\$294.00
1	Annual Maintenance - Basic Package (ESP) for ProQA Software (Medical - Standard - North American English) License renewal, service and support Increase from 5 to 6	\$2,025.00 <del>500.00</del>	\$2,025.00 <del>500.00</del> 3,150.00
Sub-Total:			\$23,389.00
Tax:			\$0.00
Shipping & Handling:			\$40.00
Total:			\$23,429.00 4,025.00 27,454

This quote is valid for 120 days from date of issue. Unless otherwise agreed to in writing, all prices quoted are exclusive of any applicable sales, use, withholding and other taxes, duties, or government assessments relating to this transaction, which are the sole obligation of Buyer. Payment terms are Net 30 unless otherwise noted.

Seller will use reasonable efforts to deliver products on time, but will not be liable for any expenses or damages incurred as a result of late delivery or for circumstances beyond Seller's reasonable control. Shipments are made F.O.B. origin, which is Salt Lake City, UT, USA. All insurance expenses and risk of loss are assumed by Buyer.

Purchasing or signing below acknowledges your agreement to the terms above and to the "break the seal" or "click to accept" license agreement associated with the licensed product(s). The license agreement is included with the licensed product(s) and you will have the opportunity to read it before opening or installing. If unacceptable, you may return the licensed product(s) within 10 days of receipt for a refund, less any applicable restocking fees and original shipping charges.

Sign here X \_\_\_\_\_ Date \_\_\_\_\_

Payment Method: (Check enclosed, or...)

[ ] Purchase Order # \_\_\_\_\_

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## **Attachment – 10**

### **Question 28**

ORDINANCE 2015-04

**BE IT ORDAINED** that the Catawba County Code of Ordinances, Chapter 30, Purchasing, is hereby amended in its entirety to read as follows:

Chapter 30 - PURCHASING

FOOTNOTE(S):

--- (1) ---

**Editor's note**—Ord. No. 2011-07, adopted June 20, 2011, amended ch. 30 in its entirety and enacted similar provisions as set out herein. The former ch. 30 derived from Ord. No. 2005-10, adopted Sept. 6, 2005.

**Cross reference**— Administration, ch. 2. (Back)

**State Law reference**— Authority of county to enter into multiyear contracts, G.S. 153A-13. (Back)

Sec. 30-1. - Definitions.

The following words, terms and phrases, when used in this chapter, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

*Alternative contracting method* means local governments can seek authority to modify bidding requirements for particular projects, specifically design-build projects for building construction.

*Appropriation* means an authorization granted by the board of commissioners to make expenditures and to incur obligations for specific purposes.

*Appropriation account* means a budgetary account set up to record specific authorizations to spend. The account is credited with original and any supplemental appropriations and is charged with expenditures and encumbrances.

*Bid* means a quotation specifically given a prospective purchaser upon request, usually in competition with other vendors.

*Budget document* means the instrument used by the budget-making authority to present a comprehensive financial program to the appropriating body.

*Construction management-at-risk* means services are provided by a construction manager, which may include preparation and coordination of bid packages, scheduling, cost control, value engineering, evaluation, preconstruction services and construction administration.

*Contract* means a legal agreement between the county and another governmental agency, company, corporation, individual or group of individuals obligating the county to pay money for services rendered or products.

*Department/agency head* means the highest level of supervision and coordination within a program area.

*Design-Build* means the design-builder contracts to provide both design services (architectural and engineering) and construction services under one contract.

*Design-Build Bridging* means the local government contracts separately with a project designer to design 35% of the project and contracts with a design-builder to complete the project design and perform construction services.

*Dual bidding* means bids may be received to erect, construct, alter or repair a building under both the single-prime and separate-prime contracting systems, and the contract shall be awarded to the lowest responsible bidder under the single-prime or the lowest responsible bidder under the separate-prime system.

*Electronic auction* means an auction of surplus property conducted on an internet site.

*Design Builder* means an appropriately licensed person, corporation, or entity that, under a single contract offers to provide design services and general contracting services.

*E-Verify* Local Government are prohibited from contracting for formal purchases and construction projects with a contractor that has not submitted documentation he/she has used the E-Verify program to insure their employees and sub-contractor's employees are not illegal immigrants and are legally employed.

*Fiscal year* means a 12-month period of time to which the annual budget applies and at the end of which a governmental unit determines its financial position and the results of its operations.

*Force account* means work performed by county employees that would ordinarily be performed by outside contractors.

*Information technology* means electronic data-processing goods and services and telecommunications goods and services, microprocessors, software, information processing, office systems, and related services and consulting or other services for design or redesign of information technology supporting business processes.

*Minority business* means a business of which at least 51 percent is owned by one or more minority persons or socially and economically disadvantaged individuals or, for a corporation, in which at least 51 percent of the stock is owned by one or more minority persons or socially and economically disadvantaged individuals, and of which the management and daily business operations are controlled by one or more of the minority persons or socially and economically disadvantaged individuals who own it.

*Petty cash* means a sum of money set aside for the purpose of making change or paying small obligations for which the issuance of a formal voucher and check would be too expensive and time-consuming or where the use of a procurement card is not feasible.

*Preaudit* means an examination for the purpose of determining the propriety of proposed financial transactions and financial transactions which have already taken place but which have not yet been recorded or, if such approval is required, before the approval of the financial transactions by designated officials for recording.

*Purchase order* means a legal document binding a vendor to provide a service or product and the county to pay a specified price.

*Purchasing manager* means one who purchases for another; one who is authorized by a county to negotiate contracts with vendors.

*Quote* means to state a price for goods or services.

*Separate-prime* means bids for building projects are received for each subdivision of work:

- (1) Heating, ventilating and air conditioning;
- (2) Plumbing;
- (3) Electrical; and
- (4) General.

*Request for Qualifications* means a process of evaluating and determining whether potential bidders have the skill, judgment, integrity, sufficient financial resources and ability necessary for faithfully performance of a contract for construction or repair work

*Single-prime* means bids for building projects are received from one contractor. The single-prime contractor performs all work or contracts with subcontractors for heating, ventilating and air conditioning; plumbing; and electrical.

*Sole-source item* means when an item is of such a special nature that it is only manufactured by one company.

*Surplus property* means items which are obsolete or are no longer of any value to the county.

*Unencumbered balance* means that portion of an appropriation which has not been expended or obligated through issuance of a purchase order.

*Vendor* means one who sells a commodity or a service.

*Voucher* means a document which evidences the propriety of transactions and indicates the accounts against which they are to be recorded.

(Ord. No. 2011-07, 6-20-2011)

**Cross reference—** Definitions generally, § 1-2.

**Sec. 30-2. - Jurisdiction; authority.**

- (a) The securing of goods and services necessary to the operation of county government is a major administrative responsibility. Under the supervision of the finance director, this function of county government is the primary responsibility of the purchasing office.
- (b) Statutory provisions regulating purchasing by local governments are contained primarily in G.S. 143-129—143-135. Other specific duties, responsibilities and authorities are contained in G.S. chs. 14, 44, 66, 75, 87, 105, 153, 160A, and 159, the Local Government Budget and Fiscal Control Act. By virtue of these statutes, the county is empowered to enter into contracts for the procurement of materials and services. The board of commissioners has full budget authority to sign such contracts. Authority to sign contracts for procurement of supplies and services has been delegated to the county manager.
- (c) Prior to (i) entering into any agreement, (ii) making any purchase, the county must first have funds appropriated to meet financial obligations. Contracts or purchase orders requiring the payment of funds, for supplies or materials, may not be made unless a proper appropriation appears in the budget and a sufficient unencumbered balance remains in the appropriation.

(Ord. No. 2011-07, 6-20-2011)

**State law reference—** Budgetary accounting for appropriations, G.S. 159-28.

**Sec. 30-3. - Purpose.**

- (a) The purchasing function is a service-oriented activity. As such, it exists to serve the needs of operating departments/agencies in county government.
- (b) This chapter makes reference to statutory provisions of state law. The provisions contained in this chapter reflect the current laws. It is intended that these provisions will always duplicate whatever changes occur in state law, and such provisions will be administratively updated at that time.

(Ord. No. 2011-07, 6-20-2011)

**Sec. 30-4. - Responsibility of purchasing manager.**

- (a) The basic responsibilities of the purchasing manager are to:
    - (1) Purchase goods and materials in accordance with established law and local policy; and
    - (2) Operate a consolidated purchase function for the county.
  - (b) The purchasing manager has the responsibility to advise of the suitability, quality or quantity of equipment, material or supplies requested and can refer such requests to the finance director and county manager for approval. The purchasing office is charged with obtaining vendor quotations, terms, delivery codes, initiating contracts, initiating and completing all formal and informal bid proceedings, maintaining an accurate inventory of central supply, disposing of surplus property in accordance with resolutions of the board of commissioners and issuing purchase orders.
  - (c) Any participation in the purchasing process by departments must be with the full knowledge and agreement of the purchasing manager.
  - (d) All state and local governmental officers and employees are prohibited from entering into any contracts involving the units they serve when any such officer or employee or a firm in which he has a financial interest has a private interest in the contract, except when that private interest:
    - (1) Involves a bank or banking institution, a savings and loan association, or a regulated utility; or
    - (2) Provides supplies, services, or facilities to needy persons under state and federal aid programs.
- (Ord. No. 2011-07, 6-20-2011)

**State law reference—** Participation of a public officer in business transactions involving public funds, G.S. 14-234.

**Sec. 30-5. - Departmental working relationship.**

- (a) As a service agency for the county, it is the desire of the purchasing office to establish and maintain at all times a close working relationship with each department. It is essential that an attitude of mutual cooperation and understanding exist between the user department and the purchasing office. The following guidelines will promote mutual assistance:
  - (1) The user departments should:
    - a. Maintain a close check on supplies and stock.
    - b. Forecast any future purchasing requirements.
    - c. Request well in advance of needs whenever possible.
    - d. Eliminate all unnecessary emergency or rush purchasing.
    - e. Alert purchasing regarding late deliveries.
    - f. Examine items received for quality, quantity, and the like.
    - g. Report promptly to the purchasing office any deviations in orders received.
    - h. Submit by written memorandum complaints against vendors.
    - i. Indicate to purchasing the exact needs of the user department when equipment or special orders requiring written specifications are involved.
    - j. Forward a copy of quotes obtained to the purchasing office for the purpose of maintaining a record.
  - (2) The purchasing office should:
    - a. Check with user departments on needs when placing consolidated orders.
    - b. Inform departments of contracts that might be utilized.



- c. Advise departments of predicted shortages, price changes or other pertinent market or vendor data.
  - d. Expedite emergency purchases as rapidly as possible in order that normal operations of a department not be disrupted.
  - e. Contact vendors on late deliveries and report findings to ordering departments.
  - f. Mediate between the user department and the supplier on partial deliveries, cancellation, return of merchandise, and complaints.
  - g. Consult with the originating department when technical equipment, special order specifications, plans or designs are involved.
  - h. Inform the ordering department head and/or his delegate of formal or informal prebid conferences and bid openings.
  - i. Review with department head the bids and prices received; consider their preference before making recommendations for award or purchase.
- (b) From the initial request to delivery of the order, the purchasing office should coordinate all action toward accomplishing the desired goal for efficient procurement of items/services requested by county departments. Only through a harmonious working association can the purchasing office effectively function as a support service for the departments.

(Ord. No. 2011-07, 6-20-2011)

#### Sec. 30-6. - Local buying.

According to G.S. 143-129(b) the county has no authority to establish preferences of any kind and is bound by law to award to the "lowest responsible bidder, taking into consideration quality, performance and time specified in the proposals for the performance of the contract."

However, it is the desire of the county to contract with vendors and contractors located within Catawba County whenever possible. The purchasing division shall update departments of new local vendors and contractors and encourage departments to obtain quotes from local vendors when appropriate.

(Ord. No. 2011-07, 6-20-2011)

#### Sec. 30-7. - Formal bids.

All formal bids will be sent out by the purchasing manager as the authorized representative of the county. Bids will be opened and tabulated by the purchasing manager. When architects or engineers are employed to perform this service on construction bids, the purchasing manager should be present at openings when possible, receive copies of the public notice and bids and prepare a recommendation for the award of a bid. Certain requirements must be followed in the formal bid process:

- (1) Written specifications must be prepared. Efficient purchasing practices require buying in accordance with carefully developed specifications. For purchases of fairly standard items, development of elaborate specifications is not necessary, but simple, standard specifications are in order. Good, clear specifications are an essential aspect of competitive bidding. Quality and service are as important as price; therefore, specifications are needed that will fulfill but not exceed the requirements for which the items and/or services are intended. A general policy should be followed which would encourage the purchasing of a good, standard product which represents the best relationship between quality and price while providing a satisfactory level of service. Specifications are prepared by the purchasing office with input from the ordering department to ensure that the products purchased fill the need. A lengthy specification designed solely for the purpose of eliminating competition, other than those able to supply a particular brand name, will not be permitted. Brand names should be used only when no other product would be satisfactory.

- (2) Bids must be advertised for prospective bidders. Advertisements must be published on the county's web site so there are seven full days between the date of the publication and the date of the opening of the bids. It will be purchasing's responsibility to maintain a vendor list and notify all parties on the vendor list for applicable projects. The advertisement must contain the time and place where plans and specifications may be obtained and the time and place for opening of the proposals. On all construction contracts, the advertisement must also contain a notice that bidders must be properly licensed under G.S. ch. 87.
- (3) Prospective bidders must submit sealed bids. Unless the invitation to bid states differently, bids must be sealed and the contents must not be disclosed or exhibited prior to the time set for the bid opening.
- (4) Except under the conditions in subsections (4)a. and b., the board of commissioners must accept bids and award contracts. Bid results must be presented to the board of commissioners for acceptance and award. The board of commissioners reserves the right to reject any or all proposals.
  - a. The county manager is authorized to award formal bids for purchase contracts in amounts less than \$250,000.00 within the following guidelines:
    1. The bid is awarded to the lowest responsible bidder.
    2. Sufficient funding is available within the department.
    3. The purchase is consistent with the goals and/or outcomes of the department.
    4. Project is approved in the budget.

The county manager is further authorized to reject any and/or all bids received less than \$250,000.00 if it is in the best interest of the county. A report shall be made to the board of commissioners of all bids awarded and rejected under this subsection and entered in the minutes of its formal sessions

- b. Bids may be rejected for any reason determined by the board or the county manager, under his authority, for any reason determined to be in the best interest of the unit. However, the bid shall not be rejected for the purpose of evading the provisions of G.S. 143-129.

(Ord. No. 2011-07, 6-20-2011)

#### Sec. 30-8. - Request for proposal (RFP).

Requests for proposals (RFPs) are normally used in lieu of formal bids when the services of a professional are required by the county, including, but not limited to, accountants (CPAs), attorneys, and doctors. Certain procedures must be followed when utilizing the request for proposals:

- (1) Requests for proposals should be drawn up by the appropriate department with the assistance of the purchasing office in such manner as the department deems appropriate to solicit responses from providers.
- (2) The request for proposals should be distributed to potential contractors by the purchasing office.
- (3) After the purchasing manager and the department have evaluated the request for proposals and decided on a particular individual or firm, a contract and purchase order will be issued. If a contract is used, it must first be sent to the legal department to approve as to form and to finance director for preaudit.
- (4) The request for proposals process may also be used for the purchase of information technology goods and services. In such cases, the process must meet the following minimum requirements:
  - a. Notice of the request for proposals shall be given in accordance with G.S. 143-129(a).

- b. Contracts shall be awarded to the person who or entity that submits the best overall proposal as determined by the awarding authority. Factors to be considered in awarding contracts shall be identified in the requests for proposals. The "best value" process as stipulated in G.S. 143-135.9 may be used to award the contract. The term "best value procurement" means the selection of the contractor based on a determination of which proposal offers the best trade-off between price and performance, where quality is considered an integral performance factor.
- c. County staff may negotiate with any proposer in order to obtain a final contract that best meets the needs of the county. Negotiations allowed under this section shall not alter the contract beyond the scope of the original request for proposals in a manner that:
  - 1. Deprives the proposers or potential proposers of a fair opportunity to compete for the contract; and
  - 2. Would have resulted in the award of the contract to a different person or entity if the alterations had been included in the request for proposals.

Proposals submitted under this section shall not be subject to public inspection until the contract is award pursuant to G.S. 143-129.8.

(Ord. No. 2011-07, 6-20-2011)

#### Sec. 30-9. - Evaluation.

- (a) *Selection committee.* The purchasing manager will work with the department head that has primary responsibility for the items/services being procured and will designate the selection committee chairperson and members. The size of the selection committee is dependent on the nature and scope of the project.
- (b) *Evaluation criteria.* Evaluation criteria are the factors used to determine which proposal best meets the requirements identified in the RFP. In establishing effective evaluation criteria, a department must clearly identify the factors relevant to its selection of a vendor and then prioritize or weigh these factors according to their importance in satisfying the established criteria. Together, the proper identification and weighing of the evaluation criteria will form an evaluation plan, which will provide a common standard by which to judge the merit of competing responses. This allows ranking the proposals while simultaneously providing respondent's with a fair basis for comparison. Evaluation criteria should be individually tailored to each RFP. Evaluation criteria should reflect the department's minimum needs and should not be so restrictive as to limit competition. Evaluation criteria often encompass such factors as price or cost, technical excellence, management capability, personnel qualifications, experience and past performance. While price or cost must be included and will be a factor, price or cost need not be the deciding factor in all acquisitions.
- (c) *[Evaluation of responses.]* Responses should be evaluated based on predefined criteria and weighting methods. In most cases, the evaluation criteria are to be published in the RFP document but not their associated values and weights. RFPs involving information technology goods and services (G.S. 143-129.8) are required to include the criteria in the RFP document.
- (d) *[Evaluation committee.]* The evaluation committee should meet to distribute proposals, review evaluation methods, scoring sheets, and discuss the scoring and review process. Once the proposals have been evaluated and scored by each evaluator, the committee should meet again and the following events should occur:
  - (1) A master-scoring sheet should be compiled with the total score for each proposal by each evaluator or the committee as a whole, depending on the evaluation method used.
  - (2) Oral presentations or demonstrations may be needed in certain cases for clarifications or if additional information is needed. These sessions will be conducted using the following guidelines:

- a. All members of the evaluation committee should be present during oral presentations and interviews.
- b. Time limits for oral presentations will be equal in length.
- c. Interviews are to be conducted and controlled by the selection committee chairperson.

No information concerning a vendor's response or the evaluation progress will be provided to anyone outside the evaluation process or other county staff. Questions concerning the dissemination of information should be directed to the purchasing manager.

(Ord. No. 2011-07, 6-20-2011)

**Sec. 30-10. - Formal bid and request-for-proposal monetary limits.**

- (a) *When required.* Formal procedures must be followed when the purchase requires an estimated expenditure of \$90,000.00 or more. For construction, repairs and renovation, formal bid procedures must be followed if the project requires an estimated expenditure of \$500,000.00 or more, except where the work is to be done by county personnel (force account) and the total cost of the project will not exceed \$125,000.00, including all direct and indirect costs, or if the labor does not exceed \$50,000.00. Bidding requirements will still apply to apparatus, supplies, materials or equipment purchased for use on force account projects. Force account labor must be approved by the board of commissioners, and a record of all costs must be maintained for public inspection.
- (b) *Minority contractors; separate specifications and contracts.* If the cost for the construction of a building is estimated at \$300,000.00 or more, the county has established a five-percent goal for participation by minority contractors in the total value of work for which a contract is awarded pursuant to G.S. 143-128. In addition, for projects totaling \$300,000.00 or more, separate specifications and contracts must be prepared for the following areas of work:
  - (1) Heating, ventilating, air conditioning and accessories and/or refrigeration for cold storage (where the cooling load is 15 tons or more of refrigeration);
  - (2) Plumbing and gas fittings and accessories;
  - (3) Electrical wiring and installations; and
  - (4) General work not included in the three areas in subsections (1) thorough (3).
- (c) *Contracting methods.* For building construction or building repair projects \$300,000.00 and above, bids may be received by using (i) single-prime, (ii) separate-prime, (iii) dual bidding, (iv) construction management-at-risk contract or (v) alternative contracting methods authorized pursuant to G.S. 143-135.26(9) in accordance with the following:
  - (1) *Single-prime.* All bidders in a single-prime project shall be required to identify on their bid the contractors they have selected for the subdivisions or branches of work for: heating, ventilating, and air conditioning; plumbing; electrical; and general. The contract shall be awarded to the lowest responsible, responsive bidder, taking into consideration quality, performance, the time specified in the bids for performance of the contract, and compliance with G.S. 143-128.2. A contractor whose bid is accepted shall not substitute any person as subcontractor in the place of the subcontractors listed in the original bid, except:
    - a. If the listed subcontractor's bid is later determined by the contractor to be nonresponsible or nonresponsive, or the listed subcontractor refuses to enter into a contract for the complete performance of bid order; or
    - b. With the approval of the board of commissioners for good cause shown by the contractor.

When a contract is awarded using the single-prime method, the county shall make the dispute resolution process available to subcontractors.

- (2) *Separate-prime.* Bids shall be accepted for each subdivision of work for which specifications are required to be prepared, and bids shall be awarded separately to responsible and reliable

persons regularly engaged in their respective lines of work. Each separate contractor shall be directly liable to the county and to the other separate contractors for the full performance of all duties and obligations due under the terms of the contract. Contracts shall be awarded to the lowest, responsible, responsive bidders, taking into consideration quality, performance, the time specified in the bids for performance of the contract and compliance with G.S. 143-128.2.

- (3) *Dual bidding.* Bids may be received to erect, construct, alter or repair a building under both the single-prime and separate-prime contracting systems, and the contract shall be awarded to the lowest responsible, responsive bidder under the single-prime system or to the lowest responsible, responsive bidder under the separate-prime system, taking into consideration quality, performance and compliance with G.S. 143-128.2 and time specified in the bids to perform the contract. In determining the system under which the contract will be awarded to the lowest responsible, responsive bidder, the cost of construction oversight, time for completion, and other factors the county considers appropriate may be considered. The bids received as separate-prime bids shall be received, but not opened, no less than one hour prior to the deadline for the submission of single-prime bids. The amount of a bid submitted by a subcontractor to the general contractor under the single-prime system shall not exceed the amount bid, if any, for the same work by that subcontractor under the separate-prime system.

(4) *Construction management contracts.*

- a. *Construction management services.* The term "construction management services" means services provided by a construction manager, which may include preparation and coordination of bid packages, scheduling, cost control, value engineering, evaluation, preconstruction services, and construction administration.
- b. *Construction management-at-risk services.* The term "construction management-at-risk services" means services provided by a person who:
  1. Provides construction management services for a project throughout the preconstruction and construction phases;
  2. Is licensed as a general contractor; and
  3. Guarantees the cost of the project.
- c. *Construction manager-at-risk.* The construction manager-at-risk shall contract directly with the county for all construction, shall publicly advertise, and shall prequalify and accept bids from first-tier subcontractors for all construction work. The construction manager-at-risk shall address quality, performance, the time specified in the bids for performance of the contract, the cost of construction oversight, time for completion, capacity to perform, and other factors deemed appropriate by the county. The county shall require the construction manager-at-risk to submit its plan for compliance with G.S. 143-128.2 for approval by the board of commissioners prior to soliciting bids for the project's first-tier subcontractors. A construction manager-at-risk and first-tier subcontractors shall make a good faith effort to recruit and select minority businesses for participation in contracts pursuant to G.S. 143-128.2. A construction manager-at-risk may perform a portion of the work only if:
  1. Bidding produces no responsible, responsive bidder for that portion of the work, the lowest responsible bidder will not execute a contract for the bid portion of the work or the subcontractor defaults and a prequalified replacement cannot be obtained in a timely manner; and
  2. The county approves of the construction manager-at-risk's performance of the work.
- d. *Design-Build and Design-Build Bridging.* The Design-Builder contracts to provide both design services (architectural and engineering) and construction services under one contract. Design-Build is subject to Request for Qualification and is initially selected based on qualifications. A Design-Build Bridging contract is when the local government

contracts with a design-builder to complete project design and perform construction services. A design-build bridging contract is awarded to the lowest responsive, responsible bidder based on estimated costs of performing design and construction services.

All bids shall be opened publicly and once they are opened are public records. The construction manager-at-risk shall act as the fiduciary of the county in handling and opening bids. The construction manager-at-risk shall award the contract to the lowest responsive, responsive bidder, taking into consideration quality, performance, the time specified in the bids for the performance of the contract, the cost of construction oversight, time for completion, compliance with G.S. 143-128.2, and other factors deemed appropriate by the county and advertised as part of the bid solicitation. The county may require the selection of a different first-tier subcontractor for any portion of the work, provided the construction manager-at-risk is compensated for any additional cost incurred. When contracts are awarded using this method, the county shall provide for a dispute resolution procedure as provided in G.S. 143-128(g). The construction manager-at-risk shall provide a performance and payment bond to the county.

- (5) *Alternative contracting method.* Local governments can seek authority to modify bidding requirements for particular projects, specifically design-build projects for building construction.
- (d) *Performance and payment bonds.* When a project exceeds \$300,000.00, performance and payment bonds are required for each contract that exceeds \$50,000.00. No bid for construction or repair work valued at \$300,000.00 or above may be considered or accepted unless, at the time of the submittal, it is accompanied by a deposit in the form of cash or certified check, in an amount equal to not less than five percent of the proposal. In lieu of making a cash deposit, the bidder may file a bid bond executed by a corporate surety licensed under the laws of the state. The successful contractor shall be required to submit performance and payment bonds to secure the faithful performance of the terms of the contract and the payment of all sums due for labor and materials.
- (e) *Reporting requirements.* County staff shall report to the secretary of the department of administration the cost and effectiveness of the method used under this section. Reports shall include the following information:
  - (1) The method used;
  - (2) The total value of each project;
  - (3) The bid costs and relevant post bid costs;
  - (4) A detailed listing of all contractors and subcontractors used on the project, including identification of whether the contractor was an out of state contractor; and
  - (5) When an out-of-state contractor was used, the reasons why the contractor was selected.The reports must be filed annually beginning April 1, 2003, and thereafter must be filed in the year in which the project is completed.
- (f) *Dispute resolution for building construction projects.* The county shall provide dispute-resolution procedures for all building construction or repair projects. The dispute-resolution procedures are available to all parties involved in the construction project, including the architect, the construction manager, and the contractors, including all levels of subcontractors, and are available for any issue arising out of the contract or construction process as long as the matter in dispute is \$15,000.00 or more. See dispute-resolution policy.
- (g) *Minority participation for building construction projects (formal bids).*
  - (1) Contractors, including first-tier subcontractors on construction management-at-risk projects, must identify on their bids the minority businesses they will use on the project and the total dollar value of the bid that will be performed by minority businesses. They must also include an affidavit listing the good-faith efforts they have made. If contractors intend to perform all of the work with their own forces, they may submit an affidavit.

- (2) After bids are received, the apparent lowest responsible bidder must provide either:
  - a. An affidavit describing the portion of the work to be executed by minority businesses, expressed as a percentage of the total contract amount showing a percentage equal to or more than the applicable goal on the project; or
  - b. Documentation of good-faith efforts to meet the goal, including any advertisements, solicitations, and evidence of other specific actions demonstrating recruitment and selection of minority businesses for participation in the contract.
- (3) Within 30 days after a contract is awarded, the successful contractor must list all identified subcontractors that will be used on the project. Failure to provide the affidavit or documentation required to demonstrate good faith efforts is grounds for rejection of a bid.
- (4) A subcontractor may not be replaced except:
  - a. When the subcontractor's bid is determined to be nonresponsible or nonresponsive or the subcontractor refuses to enter into a contract for the complete performance of the work; or
  - b. With the approval of the county for good cause.

When selecting a substitute contractor, the contractor must make and document good faith efforts. See guidelines and minority outreach plan, on file in the county offices.

(Ord. No. 2011-07, 6-20-2011)

(h) E-Verify required for formal construction contracts. All contractors and their respective sub-contractors shall provide E-Verify Affidavits for any formal construction project prior to contracting with the County.

**State law reference—** Authority of county to lease real property and to employ county personnel under certain circumstances, G.S. 153A-165, 143-135.

#### Sec. 30-11. - Formal bid exceptions.

Formal bids are not required for the following:

- (1) State of emergency. The board of commissioners may set aside the normal requirements in an emergency involving the health and safety of people or their property. In such cases, the board of commissioners may let contracts as necessary in its discretion.
- (2) If a contract for the purchase, lease or other acquisition of any apparatus, supplies, materials or equipment is with the:
  - a. United States of America or any agency thereof; or
  - b. Any other governmental unit or agency thereof within the United States.
- (3) A project is exempt from formal bidding if it is a construction project that will not cost more than \$125,000.00, including all direct and indirect costs, or if the labor does not exceed \$50,000.00 and the work is to be done by the forces of the governmental unit involved. Bidding requirements will still apply to apparatus, supplies, materials or equipment purchased for use on force account projects. Force account labor must be approved by the board of commissioners, and a record of all costs must be maintained for public inspection.
- (4) Exemption from bidding is allowed for purchases from contractors who have, within the past 12 months, contracted to furnish the desired item to the federal government or any federal agency, another state government or agency, another local government or agency. The contractor must

be willing to furnish the items at the same or more favorable prices, terms, and conditions as those provided under the contract with the other unit or agency. A prior contract must have been let under public bidding process substantially similar to G.S. 143-129, and the board of commissioners must approve the contract at a regular meeting on ten days' notice, notwithstanding delegation of authority to award contracts. Notice may be published by electronic means.

- (5) Purchases made through a competitive bidding group purchasing program, which is a formally organized program that offers competitively bid purchasing services at discount prices to two or more public agencies.
- (6) Purchases using contracts established by the state or any agency of the state, if the contractor is willing to extend to a political subdivision of the state the same or more favorable prices, terms, or conditions as established in the state contract.
- (7) Purchase of used apparatus, supplies, materials, or equipment. For purposes of this subsection, remanufactured or refabricated apparatus, supplies, materials, or equipment are not deemed to be "used," and are not included in this exception.
- (8) Guaranteed energy savings contracts, which are governed by G.S. 143-64.10 et seq.
- (9) Purchase of information technology using contracts established by the state office of information technology services as provided in G.S. 147-33.82(b) and 147-33.92(b).
- (10) Purchase of gasoline, diesel fuel, alcohol fuel, motor oil, fuel oil, or natural gas. These purchases are subject to G.S. 143-131.
- (11) In accordance with G.S. 143-129, single-source items are exempt from bid procedures when performance or price competition for a product is not available, when a needed product is available from only one source of supply, or when standardization or compatibility is the overriding consideration. This subsection requires action by the board of commissioners notwithstanding delegation of authority to award contracts and requires a record of justification for use of the exemption.

(Ord. No. 2011-07, 6-20-2011)

**State law reference—**Exemptions from formal bid requirements, G.S. 143-129, 143-135.

#### Sec. 30-12. - Informal bids.

- (a) Informal bids are distinguished from formal bids by the following:
  - (1) The dollar amount to be purchased is less than \$90,000.00 or construction/repair work for expenditures is less than \$500,000.00.
  - (2) Written specifications are not required.
  - (3) Advertising for bids is not necessary.
  - (4) Written, sealed bids need not be submitted.
  - (5) Informal bids received shall remain confidential until the bid is awarded.
- (b) . Three quotes should be obtained for purchases between \$5,000.00, and \$90,000.00 for purchases of supplies and equipment unless it is a sole source item. For purchases of supplies and equipment between \$5,000.00 and \$30,000.00, the three-quote requirement can be waived with the approval of the purchasing manager. If quotes have been attempted and the item can only be obtained from one source, the informal purchase is accomplished by a fair and reasonable acceptance of the product by the department head affected and the purchasing manager.



- (1) The officer who receives such bids is to keep a record of all bids submitted and have these available for public inspection. This record shall include the company name, the contact person, the item quoted and the date the quote was received.
- (2) When informal bids are received by a department, the quotes received should be listed on the purchase order and a copy forwarded to purchasing.
- (c) Informal building construction and repair projects are accomplished by obtaining three written quotations for projects between \$30,000.00 and \$500,000.00. For building construction or repair contracts in the informal range, between \$30,000.00 and \$500,000.00, minority business contractors shall be solicited.

(Ord. No. 2011-07, 6-20-2011)

**State law reference—** Bids to be available for inspection, G.S. 143-131.

**Sec. 30-13. - Award of bid.**

- (a) After receipt and evaluation of formal bid proposals, the purchasing manager shall make a recommendation to the county manager for purchases \$250,000.00 or less for projects approved in the budget. Such recommendation shall endorse the lowest responsible, responsive bidder, taking into consideration the following:
  - (1) Price.
  - (2) Quality.
  - (3) Performance.
  - (4) The time specified in the bid proposal for the performance of the contract (delivery or completion date).
- (b) Award of a bid by the board of commissioners or the county manager will result in execution of a purchase order and/or a contract. In general, a purchase order is used for a one-time purchase of supplies, equipment or services and for minor construction work. A contract and purchase order is used for nonprofessional services required over a period of time, for all professional services and for significant construction jobs.
- (c) Though dollar amounts generally determine whether formal or informal procedures are required, such practices may also be followed for purchases below the minimum cost in each category. The objective of the purchasing office is to secure with efficiency what is needed, when it is needed, and at the lowest reasonable cost. Competitive bidding can save dollars regardless of the estimated purchased amount.
- (d) The purchasing office must prepare or oversee the preparation of the specifications, hold a prebid conference when applicable, advertise for bids, and conduct the bid opening. Recommendations for bid award must be taken to the county manager for purchases less than \$250,000.00 for projects approved in the budget for approval. It is important that ordering departments anticipate needs timely and allow enough time after the request is submitted for the entire purchasing process to be completed whenever formal bid procedures must be followed.

(Ord. No. 2011-07, 6-20-2011)

**Sec. 30-14. - Contracts.**

All contracts proposed by any county department/agency must be preaudited prior to execution as required by G.S. 159-28. In compliance therewith the following procedures relative to contracts will apply:

- (1) All contracts should be sent to the finance director for preaudit as follows:

"This Instrument has been preaudited in the manner required by the Local Government Budget and Fiscal Control Act."

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Finance Director

- (2) A purchase order shall be issued for all contracts when county funds will be expended.
- (3) The contract will be sent to the staff attorney for approval as to form, prior to execution.
- (4) A copy of the contract will be maintained in the purchasing manager's office and the original returned to the department head.

(Ord. No. 2011-07, 6-20-2011)

Sec. 30-15. - Vendor relationships.

The purchasing/vendor relationship is one of mutuality. The promotion of good relations with vendors is an important function of the purchasing manager. Therefore, it is essential that the purchasing manager be aware of all transactions between the county and its vendors. The using departments/agencies should not be burdened with visits from vendors or their representatives nor with the work of purchasing. Much time shall be saved by complying with the following procedures:

- (1) All vendors' representatives are received by the purchasing office promptly and courteously.
- (2) The purchasing office will arrange interviews between vendors' representatives and other departments of the county.
- (3) The purchasing office will forward to departments and division heads useful information obtained from interviewing, direct mail and advertising.
- (4) When department/agency heads are visited by sales representatives, they should ascertain whether they have been sent to them from the purchasing manager. If not, they should be referred to the purchasing office.
- (5) Department contacts with vendors or their representatives may be necessary to gain information, such as availability of materials and services, delivery and manufacturing time, demonstrations and specifications.
- (6) The county is not bound by any commitment to a vendor by a department. Any such commitment shall be the exclusive responsibility of such department.
- (7) The purchasing office shall maintain an up-to-date bid list of all vendors requesting to do business with the county. This list shall be made available to all departments.
- (8) Commitment of county funds without an approved purchase order or preaudited contract is prohibited, and such commitment will not be honored for payment as provided by G.S. 159-28.
- (9) The county will not knowingly negotiate with any contractor or vendor which has been deemed by the Equal Employment Opportunity Commission to be in noncompliance with equal employment opportunity laws.

(Ord. No. 2011-07, 6-20-2011)

Sec. 30-16. - Surplus property, in rem and complaint foreclosure on land, damaged property.

- (a) If county property with a fair market value of \$1,000.00 or more becomes surplus to the county's needs due to obsolescence, end of useful life, or for any other reason deemed appropriate by the county, such property will be disposed of by means most advantageous to the county. This includes tangible personal property, buildings and structures, and real estate acquired in foreclosure proceedings for nonpayment of property taxes.

- (b) Property with an original value of \$5,000.00 or more must be declared surplus on a fixed asset form furnished by accounting. The completed form is approved by the department head and forwarded to the purchasing office. A work order should be completed by the department head and forwarded to the purchasing office. Purchasing will then determine if any other department needs the item; if not, the work order will be forwarded to maintenance so the items can be picked up and stored. The purchasing office then forwards the fixed asset form to accounting to update fixed assets. Once the property is disposed of, a list is then forwarded to accounting.
- (c) Disposal of surplus property is the responsibility of the purchasing office and is accomplished by trade-in at the time new equipment is purchased; transfer to another county agency; sale by public auction, electronic auction, private negotiation and sale; advertisement for sealed bids; negotiated offer, advertisement, and upset bid; or exchange. Trade-ins with purchase are specifically authorized and exempted from otherwise applicable statutes governing disposal of surplus property. A fixed asset form should be submitted for property that is traded in, when applicable. Award of the bid may be based on both the purchase of equipment and the sale of trade-in property, taking into consideration the amount offered on the trade-in when applying the criteria for award established in G.S. 143-129. Notice for public auction for real or personal property may be by electronic means.
- (d) If it is determined that trade-in is not to the advantage of the county, the surplus property will be offered to all other county agencies on an equal basis. A written notice of availability with a description of the surplus property will be distributed to all departments. Should an agency advise the purchasing office of an interest in the item, the purchasing manager will transfer to that agency the equipment on a request of need.
- (e) If the property is neither traded nor transferred, it is offered for sale by public auction, electronic auction, private negotiation and sale; advertisement for sealed bids; negotiated offer, advertisement, and upset bid; or exchange.
- (f) When the value of personal property is less than \$10,000.00 for any one item or group of items, the purchasing manager is authorized and may declare items surplus. When the value of personal property is between \$10,000.00 and \$30,000.00 the county manager is authorized and may declare items surplus. The county manager and/or the purchasing manager shall determine the fair market value, taking into consideration the present market value, depreciation, condition of the property, and other factors affecting value. After a determination of the fair market value, the purchasing manager, by any manner deemed necessary, is authorized to sell or exchange any property for fair market value and has full authority to convey good title to the property. A record of all transactions shall be kept generally describing the property sold or exchanged, to whom it was sold, or with whom exchanged, and the amount of money or other consideration received for each sale or exchange. The county manager and/or the purchasing manager may discard any personal property that:
  - (1) Is determined to have no value;
  - (2) Remains unsold or unclaimed after the county has exhausted efforts to sell the property using any applicable procedures; or
  - (3) Poses a threat to the public health or safety.
- (g) Any county employee who has the responsibility of declaring an item to be surplus property shall not purchase or obtain the item under any circumstances for personal use.
- (h) Surplus library books. Each branch library has a Friends of the Library organization. Library staff shall have the authority to transfer surplus and donated library materials to the Friends of the Library. Further, the Friends of the Library shall have the authority to sell donated or discarded county books on behalf of the county pursuant to G.S. 266(c). The Friends of the Library shall use the proceeds to purchase new library materials and programs.

(Ord. No. 2011-07, 6-20-2011)

Sec. 30-17. - Central warehouse.

The central warehouse was established to reduce the volume of paperwork generated to obtain a small number of repetitive items and to accelerate delivery time of these items. The central warehouse stocks printed forms and items bearing the name, seal, and other logotypes symbolizing the county, commonly known as county logo items. The procedure for ordering warehouse supplies is outlined in subsection 30-21(2).

(Ord. No. 2011-07, 6-20-2011)

**Sec. 30-18. - Emergency purchases.**

- (a) Emergency purchasing permission is granted only in extreme cases. During normal working hours, if, in the judgment of the department head, an emergency arises which necessitates immediate purchase of materials or services to continue with department operations, he notifies the purchasing manager of the emergency purchase which will be necessary and enters the purchase order in the computer system. The purchasing manager then processes the purchase order immediately, contacting finance for approval.
- (b) After working hours, the department head will decide if an emergency exists and in such case will authorize the necessary emergency purchase. A disbursement voucher shall be completed for any emergency purchase with an explanation attached.
- (c) In all cases, if the department head is not available, the decision regarding emergencies will be made by the finance director or assistant finance director. These procedures apply to all county agencies and departments.
- (d) Emergency procedures are not intended for purchases required because of failure to anticipate normal needs. Work should be planned in advance and material requirements determined so that items can be requisitioned as a regular purchase.

(Ord. No. 2011-07, 6-20-2011)

**Sec. 30-19. - Federal government surplus store.**

When items are obtained from the federal surplus store, the amount paid for them represents simply the cost of transferring them to the county. Such items are, therefore, not purchased, but transferred, and the purchasing manager assumes full responsibility for all surplus items. As such, these items must remain on county property or premises at all times. If government officials wish to inspect any of these items, the purchasing manager will be contacted and must be familiar with the items and their location. Therefore, the purchasing manager will check periodically with departments that utilize such items and equipment.

(Ord. No. 2011-07, 6-20-2011)

**Sec. 30-20. - Use of purchasing procedures and purchasing office required.**

- (a) The purchasing of goods and services utilized by county departments must be handled in accordance with the policies and procedures contained in this chapter.
- (b) The purchasing of such items and services shall be accomplished through the use of the purchasing office. The key to an efficient and economical central purchasing system is optimum use of that system.
- (c) While some exception to this policy will be allowed, e.g., emergency purchases as covered in section 30-18, failure to use the purchasing office may result in the county's refusal to pay invoices for such purchases.

(Ord. No. 2011-07, 6-20-2011)

**Sec. 30-21. - Purchasing procedures.**

Each county department is responsible for requesting, receiving, inspecting and accepting supplies and equipment for that department in accordance with the following:

(1) *Purchase order (entered via computer system).*

- a. A purchase order is used to request tangible goods or equipment which must be bought, excluding warehouse supplies. The ordering department should anticipate needs in sufficient time for normal processing by the purchasing office.
  1. Any tangible goods purchased which have a value of \$5,000.00 or more and a life expectancy of three years or more should be coded to the appropriate capital line item.
  2. All related expenses, e.g., shipping, installation, should be coded to the capital line item for the equipment purchased.
- b. The purchase order should be entered through the financial software system. The following information should be included:
  1. Buyer.
  2. Vendor.
  3. Shipment destination.
  4. Unit price.
  5. Contract number, if applicable.
  6. Description.
  7. Quantity.
  8. Unit of measure.
  9. Fund.
  10. Department identification.
  11. Account number.
  12. Project, if applicable.
- c. Refer to the financial software system user's guide for more detailed instructions or contact the purchasing office for assistance and/or the intranet for more detailed instructions. Contact the finance software administrator or the purchasing office for further assistance.
- d. The purchasing manager will review the purchase order, obtain pricing, if applicable and, if appropriate, approve the purchase order. The purchase order is then reviewed by finance for confirmation that the appropriate accounts were charged. If the wrong accounts were entered, the ordering department will be advised, and the order will be held until it is corrected.
- e. The purchasing manager has the authority to revise purchase orders and estimates of quantity, quality, or cost, as long as the established standards and specifications are maintained. If it is necessary to revise a purchase order, the ordering department will be informed immediately.
- f. Authorization in the department budget for a particular item does not authorize a specific purchase. The purchasing manager must review each request independently when it is submitted by the ordering department and can request further review by the finance department or county manager.

(2) *Central warehouse supplies.*

- a. All warehouse supplies will be listed in the supply catalogue provided to each department by the purchasing office and which is posted on the county's intranet. The central warehouse supplies include standardized, printed forms and items bearing the name, seal, and other logotypes symbolizing the county, commonly known as county logo items.
  - b. To request supplies, determine quantity needed, inventory number and account number. This information should be sent to the purchasing office via e-mail.
- (3) *Issuance of purchase order; processing; records; disbursement vouchers.* After submission of a purchase order by the user department and review by the purchasing office and finance, a purchase order is issued. The purchase order is a legal instrument that is sent to the vendor for the actual purchase of items and as such is a contract to buy on behalf of the county and to sell at a specified price on behalf of the vendor. State preaudit law requires dual signatures on all purchase orders issued, a designated purchasing office representative and a finance office representative. When both representatives have approved the purchase orders, they are distributed electronically to the vendor, finance department and requester.
- a. When an ordering department receives, inspects and accepts delivery of a complete order:
    - 1. The department should use the finance software system to obtain a voucher number.
    - 2. The voucher number should be written on the invoice and forwarded to finance.
    - 3. The voucher number should be written on the departmental copy of the purchase order and filed in that department for future reference.
  - b. When ordered goods are received, inspected and accepted as a partial or incomplete shipment, the ordering department uses the same procedures as listed in subsection (3)a.
    - 1. When the remainder of the order is received, the ordering department should again use the finance software system to obtain a voucher number.
    - 2. If the remainder of the order does not arrive in a reasonable time, the ordering department should notify the purchasing office by memorandum so the vendor can be contacted regarding the reason for the delay in shipment.
  - c. When a department receives partial delivery of an order and finds that the balance of the order is not needed, the department shall notify the purchasing office in writing and request cancellation of the remaining balance, provided the complete order has not yet been shipped and the vendor is agreeable. If a department wishes to cancel a purchase order in its entirety, the department head should immediately notify the purchasing office in writing and explain the reasons for the cancellation. The purchasing office will then notify the vendor directly; an ordering department may not contact the vendor personally to cancel a purchase order. Authorization for a cancellation may be made only by the purchasing manager.
  - d. A purchasing system is not efficient without the maintenance of up-to-date, accurate records on purchases made but not yet received. Until satisfactory delivery of such orders has occurred, the purchasing office has not achieved its ultimate goal. Therefore, it is important that the ordering department keep close check on expected delivery dates of purchase orders and notify the purchasing office of any outstanding orders so that necessary action may be taken. If follow-up action is required, the purchasing office will mail a letter to the vendor requesting that delivery be made or asking for an explanation of the delay. The purchasing office will then place the purchase order and a copy of the form letter in a suspense file. If the order is received on or before the new delivery date, no further action is required. If the items have not been received, the purchasing office will again contact the vendor as to the delay and/or cancel the purchase order if immediate delivery cannot be guaranteed.
  - e. There may be occasions when a department wishes to return merchandise to the vendor. In such case, the department head should notify the purchasing office so that the vendor

may be contacted and the return of the order negotiated. If the order is not to be replaced by the vendor, the department should request purchasing to cancel the purchase order.

- f. A disbursement voucher system will be used to request payment for goods and services when a purchase order is not feasible or when the invoice amount exceeds the purchase order amount. Examples of the kinds of transactions for which a disbursement voucher form will be used are as follows:
  - 1. Purchases shall not exceed \$999.99 for all county departments. The county manager reserves the right to lower the purchase order limit for any department.
  - 2. Postage.
  - 3. Dues, subscriptions and advance registration fees.
  - 4. Payment of debt service charges.
  - 5. Sheriff's department requests for informant and narcotics monies.
  - 6. Newspaper advertising.
  - 7. Vehicle, equipment repair and emergency maintenance repair.
  - 8. Payments to the county manager, board of commissioners, the county attorney and members of other county boards.
  - 9. All requests for payment of invoices wherein a purchase order has not been completed.
  - 10. Temporary nonemployee or professional workers not covered by a contract.
  - 11. Refunds.
  - 12. Utilities.
  - 13. Library books received on approval.
  - 14. Advance travel conference or lodging reservations.
  - 15. Employee reimbursements.
  - 16. Client assistance payments.
  - 17. Medical.
  - 18. Equipment service contracts.
- g. Any payment on a disbursement voucher which should have had a purchase order issued must be accompanied by a memorandum stating why a purchase order was not obtained and if any corrective action has been taken to prevent further occurrences.

(Ord. No. 2011-07, 6-20-2011)

**Sec. 30-22. - Completion of disbursement voucher form.**

- (a) The disbursement voucher form referenced in subsection 30-21(3)f. shall be completed and shall be completed using the on-line financial system.
- (b) A .pdf copy of the invoice will be attached to the voucher using the on-line financial system and the daily Accounts Payable Voucher spreadsheet shall be emailed to Accounts Payable.

(Ord. No. 2011-07, 6-20-2011)

**Sec. 30-23. - Procurement card procedures.**

- (a) The procurement card program was established to provide a more rapid turnaround of requests for low-dollar-value goods and to reduce paperwork and handling costs. Those requesters who have

been issued credit cards may initiate transactions in person, on the internet, or by telephone, within the limits of these procedures, and may receive goods.

- (b) Department heads may propose an employee to be a cardholder by completing the request for credit card form; the form can be found on the county's intranet. The request is to be forwarded to the purchasing office for processing. The proposed cardholder shall be issued a copy of this procedure and shall be required to acknowledge (countersign) an authorization memorandum, indicating the cardholder understands the procedures.
- (c) Team cards are available for units and/or departments. The team card is one card with several authorized users.
- (d) The unique credit card that the cardholder receives has his name embossed on it and shall only be used by the cardholder. No other person is authorized to use that card.
- (e) Use of the credit card shall be limited to the following conditions:
  - (1) Payment for a purchase will not be split into multiple transactions to stay within the single purchase limit.
  - (2) All items purchased over the counter must be immediately available at the time of the credit card use. No back ordering of merchandise is allowed.
  - (3) The credit card shall not be used for the following:
    - a. Personal purchase or identification.
    - b. A single purchase of supplies or equipment that exceeds the purchase order limit.
    - c. Cash advances.
    - d. Telephone calls.
    - e. Purchase of alcoholic beverages.
    - f. Payment for spouse-related travel expenses.
- (f) The single transaction limit for the purchase of supplies and material is \$499.99. Travel expenses and non-tangible training items may exceed \$499.99 for a single transaction. At the finance director's discretion, a department head's employee's single transaction limit can be \$999.99, and he may designate staff that has responsibility for purchasing within the department to have a single transaction limit of \$999.99.
- (g) The assistant finance director and the purchasing manager may authorize exemptions to the single transaction limit under special circumstances.

(Ord. No. 2011-07, 6-20-2011)

This the 16<sup>th</sup> day of March, 2015.

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Randy Isenhower, Chair  
Catawba County Board of Commissioners



# North Carolina 911 Board Grant Application

## General Information

**Project Title** Chowan Central Communications Radio Communication Enhancement

**Grant Fiscal Year - 2017**

**Project Director** Cordell Palmer

**Project Contact** Cordell Palmer

**Project Contact Title** Director, Chowan Central Communications

**Address** 305 West Freemason Street

PO Box 78

Edenton, NC 27932

**Phone** 252-482-8484

**Email** cord.palmer@chowan.nc.gov

*Three types of grants are available, as described below. In the box following these descriptions, please select the Grant Type which most appropriately fits your request.*

- **Consolidation** - A consolidation project involves combining one or more PSAPs with a primary PSAP with an integrated management structure that serves the same populations and jurisdictions previously served by offering grant funding for both PSAP costs authorized under G.S. 143B-1406(e) and costs not authorized under G.S. 143B-1406(e) to include construction costs.
- **Individual PSAP Enhancement/Replacement** - the relocation costs of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.
- **Regional Initiative Enhancement/Replacement** - Regional initiatives are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such initiatives comprise projects involving two or more primary PSAPs or a primary PSAP with approved secondary PSAPs. Costs of relocation of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.

**Grant Type**   *Individual PSAP Enhancement/Replacement*

**PSAP Name**   *Chowan Central Communications*

- 1.   *Has the Revenue/Expenditure Report for FY15 been completed and approved by the NC 911 Board Fiscal staff for the applicant PSAP?***

YES

- 2.   *Has the applicant PSAP submitted a plan and secured the means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP (backup plan)?***

YES

- 3.   *If the answer to #2 above is yes, does the PSAP have the means to implement the plan before 7/1/16?***

NO

- 4.   *If plan implementation will not occur before July 1, 2016, has an extension been requested?***

YES

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# Project Description

*Required for all grant types, this should be a thorough, concise, and complete description of the proposed project.*

## **5. Please outline project goals and objectives.**

Construct a radio communications tower at Chowan Central Communications to allow for Chowan Central Communications to be the backup location for Perquimans County 911.

## **6. Please provide an implementation strategy and work plan, including a timeline.**

In coordination with implementing the other pieces of our backup plan and the Perquimans County 911 backup plan this radio communications tower will be outfitted with communications antennas needed for Chowan and Perquimans Counties to conduct 911 operations simultaneously. The work plan for the county will be funding, contracting and then coordinating use of the tower. The contractor we are working with, barring any unforeseen obstructions states this tower can be constructed and operational within the dates in our backup plan timeline (April 1<sup>st</sup> 2017).

## **7. Please identify the interface or compatibility between existing equipment and/or software and that which you intend to purchase.**

This radio communications tower is needed to allow for Perquimans County to use the Chowan Central Communication facility as their backup location. Our current solution is at capacity. This tower and associated equipment will allow for dispatching Fire, Medical and Law Enforcement.

## Statement of Need

***Required for all grant types, this statement should reference the relationship of the grant project to NCGS §143b-1407(b) and the current funding priorities established by the Grant Policy and Procedures and include evidence of any financial need.***

**8. Please indicate how your PSAP or group of PSAPs meets the statutory criterion of serving a rural or high cost area.**

Chowan County is a rural county and designated as a “tier 1” county by the NC Department of Commerce. The NC Rural Center designates Chowan County as a rural county and also a “tier 1” county using their formula.

Perquimans County who will also be utilizing this tower falls into the same designations.

**9. Please identify funding priorities, their impact on operational services, and consequences of not receiving funding.**

This tower and associated components are key pieces of the Chowan and Perquimans backup plans. It is needed to allow for dispatching of Fire, EMS and Law Enforcement calls for service in two counties.

Not receiving funding will require approximately a three cent property tax increase for Chowan County on top of a planned four cent increase required to meet school and other county responsibilities. This is just taking into account the increase needed for the tower construction and not the other Chowan County borne expenses associated with the backup 911 center plan.

Not receiving funding will hamper the implementation of backup plans for both counties.

**10. Please provide a copy of your PSAP's long-term or strategic technology plan and identify how the project fits within it.**

Chowan Central Communications does not have a formal, written technology plan. We use the life cycle estimates provided by the manufacturers of our equipment and keep a constant watch on technology advancements to ensure we stay at least current with technology. Maintenance programs are in place to maintain a minimum operational state. We strive to replace technology only as needed maintaining a constant state of readiness but to also be frugal with the tax payers money.

**11. Please identify the likelihood of completing the project utilizing your 911 fund balance and the percentage of grant funding being requested in relation to total project costs.**

It is highly unlikely that we will be able to complete the project utilizing the 911 fund balance. We are requesting 100% of the construction cost. Chowan County will be responsible for utilization and maintenance cost.

# ***Regional Initiative Enhancement/Replacement Project***

***Required for all Regional Initiative Enhancement/Replacement project types.***

***Regional initiative enhancement/replacement projects are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such projects may involve two or more primary PSAPs.***

## **12. What is the relationship of participating PSAPs to the initiative? Provide MOUs between PSAPs identifying each participant PSAP's responsibilities to the project.**

Chowan Central Communications and Perquimans County 911 are working together to be the interim PSAP and the backup location for each other in times of need. The MOU with Perquimans County will be included as an attachment.

## **13. Identify intended collaborative efforts between participating PSAPs.**

Chowan Central Communications and Perquimans County 911 Communications have been collaborating on this project. Multiple avenues for establishing needed radio communications have been explored with the tower solution identified as probably the least costly and simplest solution.

## **14. Identify how resource sharing will take place.**

We are not categorizing this project as a "Regional Initiative Enhancement/Replacement Project" however it could be viewed as one. This radio tower is needed for radio communications for two primary PSAP's. It would be one of many shared components that would support 911 operations for both PSAP's.

## **15. Indicate how the initiative impacts the operational or strategic plans of the participating agencies.**

Tower utilization is a key component for the implementation of the backup plans for Chowan Central Communications and Perquimans County 911.

**NOTE:** The following section on “Consolidation Project Plan” is **ONLY** required if your type of grant is a “Consolidation”. If your project **IS NOT** a Consolidation, proceed to question # 23 to complete the grant application.

**16. Indicate how a consolidation would take place and improve service**

N/A

**17. Indicate how the consolidated PSAP should be organized and staffed**

N/A

**18. Indicate what services the consolidated PSAP should perform**

N/A

**19. Indicate how consolidated PSAP policies should be made and changed**

N/A

**20. Indicate how the consolidated PSAP should be funded exclusive of grant funding**

N/A

**21. Indicate what changes or improvements should be made to inter-communications among the local governments participating in the consolidation in order to better support operations.**

N/A

**22. Discuss sustainability of the consolidation project during the proposed term of the project, and for the foreseeable future.**

N/A



## FINANCIAL DATA

### **23. Current 911 Fund Balance**

\$298,852 as of June 30<sup>th</sup> 2015. We expect the fund balance on June 30<sup>th</sup> 2016 to be lower due usage of fund balance to replace equipment.

### **24. Amount Requested**

\$330,556.00

This amount is the total for the first three line items on the attached quote from Wireless Communications. Chowan County will be responsible for line item four. We are planning on deleting line item five.

### **25. Total Project Cost**

\$400,000.00

This is a estimate. This figure is based upon the first four line items on the attached quote and the additional cost associated with the tower construction as listed on page two of the quote under "Customer Responsibilites".

## Budget and Budget Narrative

*A budget and budget narrative must be supplied for all types of projects, as well as a copy of the applicant agency's approved FY 2016 PSAP budget.*

### **26. List planned expenditures**

Please see attached quote from Wireless Communications.

### **27. Provide a budget narrative that briefly explains the reason for each requested budget item.**

The three requested budget items are components of one project and each are needed to function as a component of the backup PSAP plans for Chowan Central Communications and Perquimans County 911.

### **28. State how you will follow applicable procurement law, rules, and policies.**

Chowan Central Communications will utilize the Chowan County procurement policy to follow applicable procurement law, rules and policies.

### **29. If the project will have ongoing expenses, such as monthly recurring charges, describe plans and specific sources for future/long-term funding and demonstrate how the project will be sustained in the future without additional 911 Grant Program funding.**

Tower maintenance will be funded using county funds.



## Evaluation

***All applications must include evaluation information. The final report shall include an evaluation demonstrating that the equipment or services funded by the grant have been purchased, installed/implemented, and are performing as expected.***

**30. Explain how your evaluation will measure the achievement of the goals and objectives identified in the Project Description with a timeline for meeting short, intermediate, and long term goals.**

Two primary PSAP's providing service from the same location with the capability to dispatch emergency responders via radio. This is a capital improvement project and the measure of its success will be providing radio communications for the long term.

**31. Describe how evaluations will be conducted, including performance parameters which must be met in order to meet acceptance criteria.**

Chowan Central Communications and Perquimans County 911 having the capability to dispatch responders simultaneously without interference is the primary acceptance criteria. Testing will be completed upon installation and as often as weekly as Perquimans County 911 utilizes the backup center.

**32. Identify how data will be collected and presented**

Testing will be completed upon installation and as often as Perquimans County 911 utilizes the backup center. Perquimans CAD calls can be provided as evidence of simultaneous use.



May 14, 2016  
Martin Chriscoe, 919-980-0925

**Budgetary Pricing – Chowan County**  
**Price Summary**

<b>1. 150' Self-Supporting Steel Tower</b>	<b>Total: \$152,778.00</b>
<b>2. Tower Shelter Building</b>	<b>Total: \$66,667.00</b>
<b>3. Installation Labor, Hardware Tower &amp; Shelter Building</b>	<b>Total: \$111,111.00</b>
<b>4. RF Control Stations, Antenna System, Installation</b>	<b>Total: \$53,740.00</b>
<b>5. Long Haul Microwave Option – (Edenton to Hertford)</b>	<b>Total: \$62,500.00</b>

*This quote is referenced by Questions:  
24, 25, 26, 27*



**May 14, 2016**

**Martin Chriscoe, 919-980-0925**

**Budgetary Pricing – Chowan County**

**150' Self-Supporting Steel Tower**

**Total: \$152,778.00**

Includes:

1. Stamped Drawing Package for Permitting
2. Tower Erection and offloading at site
3. Installation
4. \*Foundation pricing assumes normal soil conditions

Customer Responsibilities:

1. Electrical Service to Tower Compound
2. Soil Testing/Reports
3. Environmental Assessment
4. Permits
5. Fencing and Landscaping



May 14, 2016  
Martin Chriscoe, 919-980-0925

### **Budgetary Pricing – Chowan County**

#### **Tower Shelter Building**

**Total:       \$66,667.00**

#### **8'x 10' x 9'2" Concrete Building**

Includes:

1. 200 pounds per square foot distributed floor loading while on foundation
2. 125 pounds per square foot distributed floor loading while lifting
3. 100 pounds per square foot distributed roof load
4. 150 mph wind load
5. Seismic zone 4
6. Exposed aggregate exterior
7. The proposed shelter walls are capable of stopping 30.06 rifle fire per UL752 requirements.  
Door is not bullet resistant.
8. The proposed shelter walls will provide a two hour fire rating
9. One (1) 100 Amp, 10,000 AIC, 120/240 VAC, single phase, 60 Hz, 20 space main breaker, snap-in utility power distribution panel, in a NEMA 1 surface mount enclosure
10. One (1) shelter wall penetration to serve as utility power service
11. Four (4) 20 Amp specification grade duplex receptacles
12. One (1) 20 Amp specification grade exterior duplex receptacle on a ground fault interrupter circuit
13. Powerware UPS, Output kVA rating: 10kVA, Full load battery backup minutes: 6
14. Two (2) four foot, two tube surface mounted fluorescent light fixtures
15. One (1) exterior door light with vandal resistant lens
16. One (1) nominal 12,000 Btu/hr wall mount air conditioning unit, with low ambient and compressor anti cycle controls, integral 3 kW resistance heat strip and washable dust filter
17. Separate wall mounted thermostat
18. Alarm device contacts: One (1) line voltage smoke detector, One (1) intrusion alarm switch with form "C" contacts rated .1 Amps at 28 VDC, One (1) high temperature alarm, One (1) low temperature alarm
19. Provisions for the connection of a grounding electrode conductor at the shelter service equipment
20. One (1) eight - port/waveguide entry panel with 5" sleeves and protective blank covers
21. Ten feet (10') of 12" wide cable ladder/tray
22. One (1) service manual
23. Wireless Communications, will provide three (3) sets of shelter drawings with each shelter unit order. Typical foundation drawings based upon normal soil conditions are available to support calculations for recommended shelter tie down locations.



May 14, 2016  
Martin Chriscoe, 919-980-0925

### **Budgetary Pricing – Chowan County**

#### **Installation Labor, Hardware Tower & Shelter Building**

**Total: \$111,111.00**

Includes:

##### Communications Shelter

1. Install shelter Foundation per stamped drawings (\*Prices assume normal soil conditions)
2. Off-Load and set communications shelter on foundation.
3. Provide entrance stoop for shelter

##### Installation

1. Install Tower foundation per drawings (\*Prices assume normal soil conditions)
2. Furnish and install 10 foot Ice Bridge between tower and shelter
3. Provide grounding for tower and shelter

##### Project Management

1. Provide a dedicated Project Manager to coordinate delivery and installation of Tower and Communications Shelter

##### Short Haul Microwave System

1. Provide and install short haul MW Link between the 911 building and the Tower Site across the parking area



May 14, 2016  
Martin Chriscoe, 919-980-0925

**Budgetary Pricing – Chowan County**

**RF Control Stations, Antenna System,  
Installation**

**Total: \$53,740.00**

Includes:

RF Control Stations

1. 6 each APX1500 VHF Control Stations
2. 6 each APX1500 800 mhz Control Stations (VIPER)

Installation

1. Install, Program, Ground, Optimize, 12 RF Control Stations w/antenna system
2. VHF Control Stations on new tower (6 each)
3. 800Mhz (VIPER) Control Stations on roof top (6 each)



May 14, 2016

Martin Chriscoe, 919-980-0925

**Budgetary Pricing – Chowan County**

**Long Haul Microwave Option – (Edenton to Hertford)**

**Total: \$62,500.00**

# North Carolina 911 Board Grant Application

## General Information

**Project Title** Forsyth County Primary PSAP Relocation: Phase I of PSAP Consolidation

**Grant Fiscal Year - 2017**

**Project Director** Herb Swaim

**Project Contact** Herb Swaim

**Project Contact Title** Communication Supervisor, Forsyth County 911 Communications

**Address** 3000 Aviation Drive, Winston-Salem, NC 27105

**Phone** 336-703-2554

**Email** swaimhh@forsyth.cc

*Three types of grants are available, as described below. In the box following these descriptions, please select the Grant Type which most appropriately fits your request.*

- **Consolidation** - A consolidation project involves combining one or more PSAPs with a primary PSAP with an integrated management structure that serves the same populations and jurisdictions previously served by offering grant funding for both PSAP costs authorized under G.S. 143B-1406(e) and costs not authorized under G.S. 143B-1406(e) to include construction costs.
- **Individual PSAP Enhancement/Replacement** - the relocation costs of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.
- **Regional Initiative Enhancement/Replacement** - Regional initiatives are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such initiatives comprise projects involving two or more primary PSAPs or a primary PSAP with approved secondary PSAPs. Costs of relocation of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.



**Grant Type**   *Individual PSAP Enhancement/Replacement*

**PSAP Name**   *Forsyth County 911 Communications*

1.   ***Has the Revenue/Expenditure Report for FY15 been completed and approved by the NC 911 Board Fiscal staff for the applicant PSAP?***

YES

2.   ***Has the applicant PSAP submitted a plan and secured the means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP (backup plan)?***

YES

3.   ***If the answer to #2 above is yes, does the PSAP have the means to implement the plan before 7/1/16?***

YES

4.   ***If plan implementation will not occur before July 1, 2016, has an extension been requested?***

NO

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# Project Description

***Required for all grant types, this should be a thorough, concise, and complete description of the proposed project.***

## **5. Please outline project goals and objectives.**

Forsyth County is undertaking a multi-phased project to reduce the number of PSAPs in the County. This requires the relocation of our primary PSAP to the Public Safety Center in downtown Winston-Salem where the Sheriff's Office Communication Center is located. The vacated County communications center then becomes the backup PSAP, which will serve the Sheriff and County 911 Centers. The overall project to relocate the primary PSAP and facilitate a consolidation involves three phases: 1) secure a North Carolina 911 Board Grant to relocate the County's primary PSAP to the Public Safety Center with the Sheriff's department communication center, 2) replace the County's existing Intergraph CAD with an OSSI CAD, which matches the Sheriff's and City of Winston-Salem's CAD, and 3) alter the organizational structure between the County and Sheriff's office to formally consolidate the two PSAPs. While the end goal is consolidation of two PSAPs, this grant request is to relocate the County's primary PSAP, because relocation is the foundational piece for consolidation to occur and without grant assistance is not possible. Phases I and II have significant dollar cost to provide the infrastructure required to effect phase III of this project.

This grant application for *Individual PSAP Enhancement/Relocation* funds is focused on Phase I, relocating Forsyth County's primary PSAP to the Public Safety Center. Forsyth County has committed to complete Phase II with the County's 911 Board funds and County dollars from the General Fund, included in the FY17 budget, to replace the Intergraph CAD with OSSI. The CAD replacement to OSSI is critical because the Sheriff, City of Winston-Salem and surrounding counties utilize the OSSI platform. The conversion to an OSSI CAD will enhance the value of relocation by improving interoperability with the Sheriff and other area PSAPs. The relocation and CAD conversion provides the foundation to consolidate the two PSAPs, which will enhance 911 communications in Forsyth and achieve a North Carolina 911 Board goal of reducing the number of PSAPs statewide.

### ***Specific goals for this 911 Individual PSAP Enhancement/Relocation:***

1. Relocate Forsyth County's primary PSAP from its current location at the Smith Reynolds Airport to the Public Safety Center in downtown Winston-Salem.
  - a. The purpose for moving the Forsyth County Communications Center to the Public Safety Center is to improve operational effectiveness and efficiency and to facilitate the future consolidation of two PSAPs. The Public Safety Center houses the Sheriff department's administrative staff and 911 communications center, the Emergency Operations Center (EOC), and by FY18 the City and County Emergency Management staff. Adjacent to the Sheriff's 911 Communication Center is a 2,700 square foot area set aside for the Forsyth County 911 Communications Center relocation.
2. Improve system interoperability by eliminating transferred call taking inefficiencies between the County and Sheriff's department.
  - a. This is the most immediate and important goal for this relocation, as it has a direct impact on service to the citizen. Forsyth County is a primary PSAP receiving 911 calls for all emergency medical incidents, calls for the Kernersville Fire Department, and fire and law enforcement calls from the unincorporated parts of Forsyth County. Under the current structure, incidents requiring a law enforcement and fire or EMS response present significant communication and dispatch challenges, because the Forsyth County telecommunicators must collect the medical or fire information and then transfer the call to the Sheriff's department where the law enforcement piece is managed. This process delays the dispatch of

law enforcement units, which can delay EMS and fire units from safely entering a potentially dangerous scene to render aid. Relocating the primary PSAP to the Public Safety Center and converting to an OSSI CAD resolves this issue because the law enforcement and fire/EMS telecommunicators will be able to simultaneously gather information and dispatch appropriate emergency assets. The improvement in dispatch and incident outcomes from this relocation will be measurable, as both entities track call to dispatch time in the CAD. It is estimated that in many cases the relocation of the Forsyth 911 Center to the Public Safety Center could reduce dispatch times for incidents requiring law enforcement and fire/EMS by minutes.

3. Convert the current primary PSAP into the backup PSAP in compliance with the North Carolina 911 Board mandate that all PSAPs have an approved and operational backup plan. While Forsyth County has met the 911 Board's mandate for a backup plan, converting the current 911 Center to the backup site will further enhance redundancy and operational integrity if the primary PSAP goes offline. The conversion of the current facility into the backup has limited costs but provides a myriad of benefits. The backup PSAP will have sufficient dispatch consoles and work stations to accommodate County Fire and EMS communications and the Sheriff's Office communications staff, while also having room to expand, if needed, to accommodate other backup PSAPs.
  - a. As part of the grant, the current Forsyth County 911 Communications Center will become the backup PSAP for the County and Sheriff. With the County's pending transition to an OSSI CAD system, the backup PSAP becomes far more versatile because the City of Winston Salem, the Sheriff, and our surrounding PSAPs all use the OSSI platform. This further strengthens consolidation possibilities between the multiple PSAPs in Forsyth by providing a dedicated backup facility for the community's 911 operations.
4. Support the training and employment of future and current telecommunicators through a joint facility agreement between Forsyth County and Forsyth Technical Community College to utilize the former 911 Center (i.e. Backup PSAP) located at the airport as a training facility.
  - a. The former Forsyth County 911 Center at the airport will become the backup communications center as its primary function. In addition, Forsyth County and Forsyth Technical Community College in partnership will use the facility for telecommunicator instruction and certification programs. This will help to ensure the backup facility remains in a constant state of readiness, while also providing a realistic training facility to educate current and future emergency service telecommunicators. Forsyth Technical Community College has expressed sincere interest in developing a curriculum and using this facility once converted. While entering into a joint facility use agreement is the first part of achieving this goal after the relocation occurs, the true metrics for success are based on the number of students trained and certified at the facility and their employment rate.
5. Reduce the number of Public Safety Answering Points (PSAPs) in Forsyth County.
  - a. The end goal of this relocation is to facilitate consolidation of PSAPs in Forsyth County. Currently, four PSAPs exist in Forsyth County: 1) Forsyth County is a primary PSAP dispatching EMS, volunteer fire incidents in the unincorporated areas, and the City of Kernersville Fire Department, 2) City of Winston-Salem is a primary PSAP dispatching fire and police within the city limits, 3) Forsyth County Sheriff dispatch for law enforcement incidents in the unincorporated areas, and 4) City of Kernersville Police Department for law enforcement. While the focus of this grant request is relocation, the end goal of the project is consolidating the Forsyth County and Forsyth Sheriff 911 centers, which will

reduce the number of PSAPs in Forsyth County by one. The relocation places the County and Sheriff 911 centers into the same room, making this goal achievable within a reasonable time frame.

**6. Please provide an implementation strategy and work plan, including a timeline.**

The Public Safety Center, located on Church Street in downtown Winston-Salem, is a County owned building that houses the Sheriff's Department and other city/county public safety staff. An area adjacent to the Sheriff's communication center, approximately 2,700 square feet in size, is available to relocate the Forsyth County 911 Center. The relocation project adds eight dispatch positions and equipment to the dedicated space adjacent to the Sheriff's communication center in the Public Safety Center to accommodate the primary PSAP.

Forsyth County Management is intent on expediting the relocation of the primary PSAP if the grant is awarded, as it will coincide with the CAD replacement. The County has committed funds to replace its Intergraph CAD with OSSI in the FY17 budget. The estimated time to replace the CAD is 10-14 months after a contract is signed. Forsyth County has maintenance agreements with the existing CAD vendor that run through September 2017. Architect plans for the new communications center are complete, providing the opportunity to move quickly with construction if the grant is awarded (Architect Plans Attached: New 911 Center labeled, can see location of Sheriffs PSAP and EM adjacent).

Construction build out of the communications center at the Public Safety Center will be coordinated with the CAD replacement. Because the vacated communications center at the airport will serve as the backup, it will have essentially the same OSSI CAD components as the primary PSAP. The plan is to install the new CAD components for the backup, which will also provide an opportunity to begin training the telecommunicators. Once construction at the Public Safety Center is complete, the OSSI CAD will be installed and tested. With all CAD components in place at the primary and backup, the communications staff will relocate to the Public Safety Center converting to the new CAD system without service interruption.

Task	16-Aug	16-Sep	16-Oct	16-Nov	16-Dec	17-Jan	17-Feb	17-Mar	17-Apr	17-May	17-Jun	17-Jul	17-Aug	17-Sep	17-Oct
Space Design (Completed)															
<b>Construction Bid Process</b>															
Develop Documents															
Advertise															
Evaluate Bids															
Award Contract															
<b>Construction: PSC</b>															
Space Upfit															
Console Installation															
<b>(CAD Conversion)</b>															
Secure OSSI Contract															
Execute Contract: Plan															
Install Backup CAD															
Install Primary CAD															
<b>Train Telecommunicators</b>															
<b>Testing of components</b>															
<b>Move to relocated PSAP</b>															

**7. Please identify the interface or compatibility between existing equipment and/or software and that which you intend to purchase.**

All equipment involved in this relocation project will be compatible, as the County has committed the funds, along with 911 funds, to convert its CAD system from Intergraph to OSSI. The Sheriff, City of Winston-Salem, City of Kernersville, and surrounding county dispatch systems utilize the OSSI CAD platform. Converting to OSSI will significantly improve interoperability by increasing the speed with which emergency incidents can be received and dispatched throughout and beyond Forsyth County. In addition, City, County and Sheriff emergency communications operate on the same countywide radio system, which is maintained by the County's Interagency Communications Department.

# Statement of Need

***Required for all grant types, this statement should reference the relationship of the grant project to NCGS §143b-1407(b) and the current funding priorities established by the Grant Policy and Procedures and include evidence of any financial need.***

## **8. Please indicate how your PSAP or group of PSAPs meets the statutory criterion of serving a rural or high cost area.**

Forsyth County does not meet the statutory criterion of “rural area,” nor does it meet the definition as a “high cost area.” Forsyth County, a primary PSAP, does receive 911 calls from rural areas and is responsible for dispatching seventeen volunteer fire departments that serve the rural and suburban areas of the county.

## **9. Please identify funding priorities, their impact on operational services, and consequences of not receiving funding.**

Funding Priorities:

**Priority 1:** Add eight dispatch positions, a raised floor, and networking infrastructure to relocate the Forsyth County 911 Dispatch Center into the 2,700 square foot area adjacent to the Sheriff’s Communication Center in the Public Safety Center building.

This will locate the County’s two PSAPs together, which will immediately improve the speed of dispatch and overall service to the citizen. A major issue with the current set up is that incidents requiring law enforcement and fire/EMS services cannot be dispatched simultaneously, delaying emergency responses. This will be the most evident and important benefit of relocating Forsyth County’s 911 Communications Center. It will also provide the opportunity to consolidate the two PSAPs.

**Priority 2:** Convert the vacated County 911 Dispatch Center into the backup PSAP for the County and Sheriff. The North Carolina 911 Board approved Forsyth County’s primary PSAP backup plan prior to the July 1, 2016 deadline. Under the current backup plan, Forsyth Communications uses dispatch stations in the Sheriff’s 911 Communications Center. If relocated to the Public Safety Center, the primary PSAP backup plan is enhanced by having a dedicated space that can facilitate more dispatch positions with an interoperable CAD system.

The current PSAP backup plan is sufficient, but not optimal, for sustained operations. With this grant, the backup primary PSAP duplicates the main facility, which means operations will not be altered when using this facility. In addition, the more robust backup dispatch center will afford the opportunity to enter into a shared facility agreement with Forsyth Technical Community College to use it for telecommunicator training and certification programs, which will help enhance the acuity of dispatchers throughout the region.

**Consequences of not receiving funding:** Forsyth County is committed to improving 911 communication services to its citizens. This grant is a critical component to making significant PSAP changes that will benefit the end user through decreased dispatch times and that will provide the opportunity to achieve a goal of reducing the number of PSAPs. As mentioned in this grant, Forsyth County has committed the funds to convert the CAD platform to match that of the Sheriff’s department and City of Winston-Salem to improve interoperability and facilitate consolidation.

This grant will permit Forsyth County to relocate the County’s primary PSAP into the same facility as the Sheriff’s department PSAP. Without the grant, the county does not have the funds to relocate the primary PSAP. The most immediate outcome of not relocating the primary PSAP is the delayed dispatch of incidents requiring law enforcement and fire/EMS assets. In addition, Forsyth County has strategically planned to change out the CAD in conjunction with the relocation. A move to relocate in the future after the CAD has been replaced will lead to increased cost because the

equipment will have to be moved and each site altered in the conversion.

In short, this grant is a critical component to significantly altering the 911 communications landscape in Forsyth County to provide immediate benefits to the end user. The County will fund the CAD conversion to improve interoperability regardless of the grant but does not have the financial resources to complete the other critical pieces of this relocation and PSAP consolidation without state assistance.

**10. Please provide a copy of your PSAP's long-term or strategic technology plan and identify how the project fits within it.**

The Forsyth County Technology Business Plan is attached. It includes a detailed discussion of the short and long-term plans for the County's PSAP. The requested grant funds for this project are in line with the strategic goals outlined in Forsyth County's Technology Business Plan. These goals include: 1) Having interoperable computer aided dispatch between all local and regional Public Safety Answering Points (PSAP); 2) Leveraging all opportunities to merge and consolidate services that produce increased efficiencies and service to the citizen; 3) Developing a pool of well trained 911 telecommunicators through direct training, partnerships, and shared facility agreements.

**11. Please identify the likelihood of completing the project utilizing your 911 fund balance and the percentage of grant funding being requested in relation to total project costs.**

Forsyth County cannot achieve the goals outlined in this document without grant funding. The two primary goals of this grant are to improve call taking and 911 dispatch capabilities by relocating the primary PSAP and to reduce the number of PSAPs in Forsyth County through consolidation. Achieving both of these goals requires a CAD conversion and relocation of the primary PSAP to the Public Safety Center. Forsyth County does not have the financial resources to fund both projects to achieve these goals.

If the grant is awarded, Forsyth County will supplement the project budget with available 911 fund balance. Because Forsyth County will use about \$497,500 in available 911 Fund Balance for the CAD replacement and \$60,000 to complete the upfit of the backup PSAP, along with CAD maintenance, it is unclear the exact amount that will be available to offset cost in this project. However, the County will utilize available 911 Fund Balance for approved expenditures where possible with this project. At this point, it is assumed at least \$175,000 of 911 Fund Balance will go toward the purchase of dispatch station consoles, as part of this relocation project.

## ***Regional Initiative Enhancement/Replacement Project***

***Required for all Regional Initiative Enhancement/Replacement project types. Regional initiative enhancement/replacement projects are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such projects may involve two or more primary PSAPs.***

**12. What is the relationship of participating PSAPs to the initiative? Provide MOUs between PSAPs identifying each participant PSAP's responsibilities to the project.**

N/A

**13. Identify intended collaborative efforts between participating PSAPs.**

N/A

**14. Identify how resource sharing will take place.**

N/A

**15. Indicate how the initiative impacts the operational or strategic plans of the participating agencies.**

N/A



**NOTE:** The following section on “Consolidation Project Plan” is **ONLY** required if your type of grant is a “Consolidation”. If your project **IS NOT** a Consolidation, proceed to question # 23 to complete the grant application.

**16. Indicate how a consolidation would take place and improve service**

N/A

**17. Indicate how the consolidated PSAP should be organized and staffed**

N/A

**18. Indicate what services the consolidated PSAP should perform**

N/A

**19. Indicate how consolidated PSAP policies should be made and changed**

N/A

**20. Indicate how the consolidated PSAP should be funded exclusive of grant funding**

N/A

**21. Indicate what changes or improvements should be made to inter-communications among the local governments participating in the consolidation in order to better support operations.**

N/A

**22. Discuss sustainability of the consolidation project during the proposed term of the project, and for the foreseeable future.**

N/A



## FINANCIAL DATA

### **23. Current 911 Fund Balance**

Current 911 Fund Balance: \$1,037,959.87 (~\$498,000 of fund balance will be utilized to replace the CAD in FY2017)

### **24. Amount Requested**

911 Fund Balance used: Will utilize available fund balance. Estimate that \$175,000 will be utilized for this project.

**Total Grant Funding Request: \$2,170,000**

### **25. Total Project Cost**

Total Project Cost: \$2,345,000

## Budget and Budget Narrative

***A budget and budget narrative must be supplied for all types of projects, as well as a copy of the applicant agency's approved FY 2016 PSAP budget.***

### **26. List planned expenditures**

*List of planned expenditures and description:*

- Construction cost to convert 2,700 square foot space in Public Safety Center: \$810,000 (\$300/squ.ft) + \$5,000 in permit fees
- Phone system upgrade and reconfiguration: \$60,000
- Dispatch console furniture: \$175,000
- Microwave equipment: \$150,000
- Radio Console System: \$500,000
- Infrastructure and Networking: \$220,000
- Redundant backup power supply components: \$400,000
- Audiovisual equipment: \$25,000
- Total Project Cost: \$2,345,000

### **27. Provide a budget narrative that briefly explains the reason for each requested budget item.**

- Construction cost to convert 2,700 square foot space in Public Safety Center into the new Forsyth County Communications Center:
  - Raise floor to accommodate cables, ramp, ventilation, drop ceiling, wall covering and partition walls, and other infrastructure to accommodate eight dispatch positions. The 2,700 square foot space is completely open down to the studs, so all finishes for this space are included in the per square foot cost estimates.
- Phone system upgrade and reconfiguration:
  - Add 4 additional telephone positions. Forsyth County currently has four telephone positions for the backup PSAP in the Public Safety Center.
- Dispatch console furniture:
  - Provide for 8 dispatch console stations, chairs and other associated resources. This matches the number of consoles at the current communications center.

- Microwave equipment:
  - Provides the link from the communications center to the Winston Building radio tower.
- Radio Console System:
  - Relocate and reconfigure existing radio consoles, because of legacy parts. All radio equipment will be relocated from the current communications center to the Public Safety Center.
- Infrastructure and Networking
- Redundant backup power supply components:
  - Building the uninterruptible power supply (UPS) for the relocated communications center. The Public Safety Center has sufficient generator capacity to accommodate the needs of the relocated communications center, but it does not have adequate UPS for the servers and 911 workstations.
- Audiovisual equipment:
  - Miscellaneous TV, monitors, cameras (for security purposes), etc.

**28. State how you will follow applicable procurement law, rules, and policies.**

Forsyth County has a structured contract control system that all county contracts over \$5,000 are submitted into for review. A contract cannot be executed until it is reviewed by Budget, Finance, County Attorney, County Manager, and then, depending on the dollar amount, voted on by the elected Board of County Commissioners. This process ensures all procurement laws, rules, and policies are carefully followed. In addition, all purchases are submitted through the joint city/county purchasing department. The purchasing department guides the bid and purchasing process of any equipment in accordance with federal, state and local requirements.

**29. If the project will have ongoing expenses, such as monthly recurring charges, describe plans and specific sources for future/long-term funding and demonstrate how the project will be sustained in the future without additional 911 Grant Program funding.**

The primary and backup primary PSAPs will have ongoing costs associated with their operation; however, the vast majority of these costs are ones Forsyth County currently pays, such as for mechanicals, electrical, phone, maintenance, etc. to operate the Sheriff's PSAP and the County's PSAP locations. If anything, some economies of scale associated with the ongoing costs may be gained following the relocation. The funds to pay ongoing expenditures associated with the 911 Communication Centers are provided through the County's General Fund, 911 eligible expenses, and eligible Forsyth Technical Community College revenues attributed to training that takes place at the backup 911 Communications Center. The County does not expect any significant changes in ongoing costs associated with relocating the primary PSAP. Again, some savings to taxpayers are expected from not maintaining two backup PSAP plans, reducing GIS resources necessary to maintain center lines in two different CADs, and by the County only needing one CAD maintenance contract. Therefore, Forsyth County has an established funding plan for ongoing expenditures associated with changes to the 911 Communications System that is sustainable if the grant is awarded.

## Evaluation

***All applications must include evaluation information. The final report shall include an evaluation demonstrating that the equipment or services funded by the grant have been purchased, installed/implemented, and are performing as expected.***

**30. Explain how your evaluation will measure the achievement of the goals and objectives identified in the Project Description with a timeline for meeting short, intermediate, and long term goals.**

A project manager will oversee the implementation of this project as outlined and ensure specific evaluation benchmarks are achieved. This individual will coordinate the effort to ensure that funds are expended properly and meticulously accounted for throughout the project, that contractors meet their obligations, and that the relocated primary PSAP and backup are completely functional prior to final payment. Full operation of the relocated primary PSAP will indicate all operational objectives associated with the grant were met, which will occur in conjunction with the financial documentation.

***The project timeline:***

- Short Term Goal
  - Coordinate with construction, equipment, and service vendors to secure contracts per established laws, rules, and policies. Again, it will be critical to carefully schedule construction efforts to ensure CAD installation can occur in a timely manner and at an appropriate time during the relocation. Signed contracts for all facets of the relocation is the benchmark for achieving the short term goals.
- Intermediate Term Goal
  - Complete Phases I and II of this project. A functioning relocated primary PSAP and backup are the benchmarks for achieving the intermediate goals. This is the most complex part of the project because it involves the build out of the new communications center in the Public Safety Center, installing the new CAD, training the telecommunicators on the new CAD, and then relocating the personnel from the old Communications Center to the Public Safety Center. Because the old Communications Center will serve as the backup PSAP, redundant OSSI CAD equipment will be installed parallel to the existing CAD. This will provide the opportunity to also train current telecommunicators on the new CAD prior to their relocation.
- Long Term Goal
  - Ongoing evaluation of the 911 Communications system through systematic metrics. The 911 center manager will monitor performance metrics, such as call volume, time to dispatch, number of rings to 911 pick-up, etc. to ensure the relocated operations meet or exceed industry standards.
  - The final long term goal of relocating the primary PSAP is consolidation of the Forsyth County PSAP with the Sheriff's department PSAP. The relocation of the Forsyth Communications Center in and of itself provides a myriad of budget, administrative and operational benefits, but consolidation is the final part to close the loop and reduce the number of PSAPs in Forsyth County. This goal will be achieved when the two PSAPs are functionally joined with a unified organizational structure.

**31. Describe how evaluations will be conducted, including performance parameters which must be met in order to meet acceptance criteria.**

The project manager will be tasked with developing metrics, gathering and tracking data, and evaluating progress throughout the duration of the project. This includes regular updates provided to the County Manager and to the granting authority.

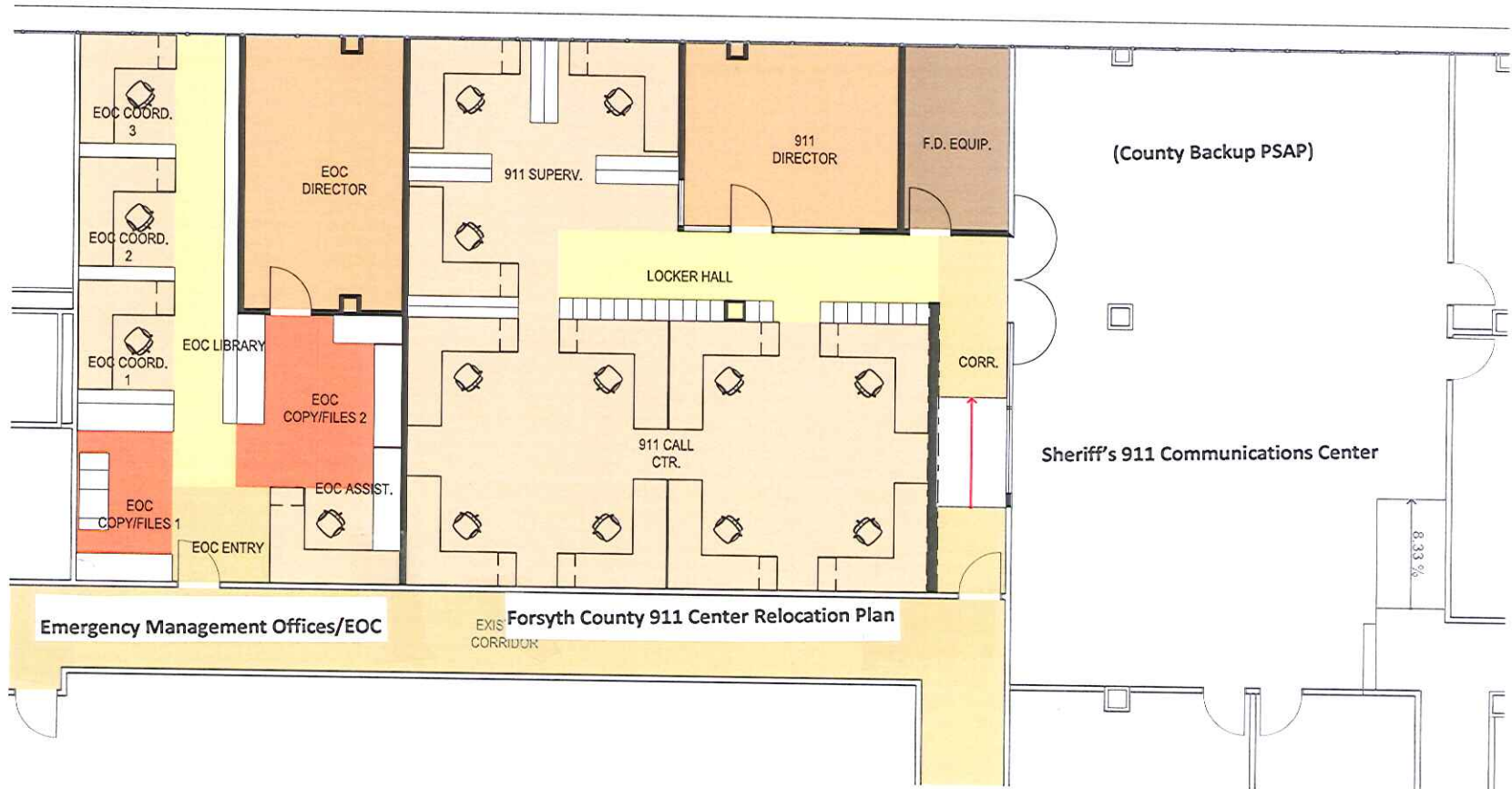
**32. Identify how data will be collected and presented**

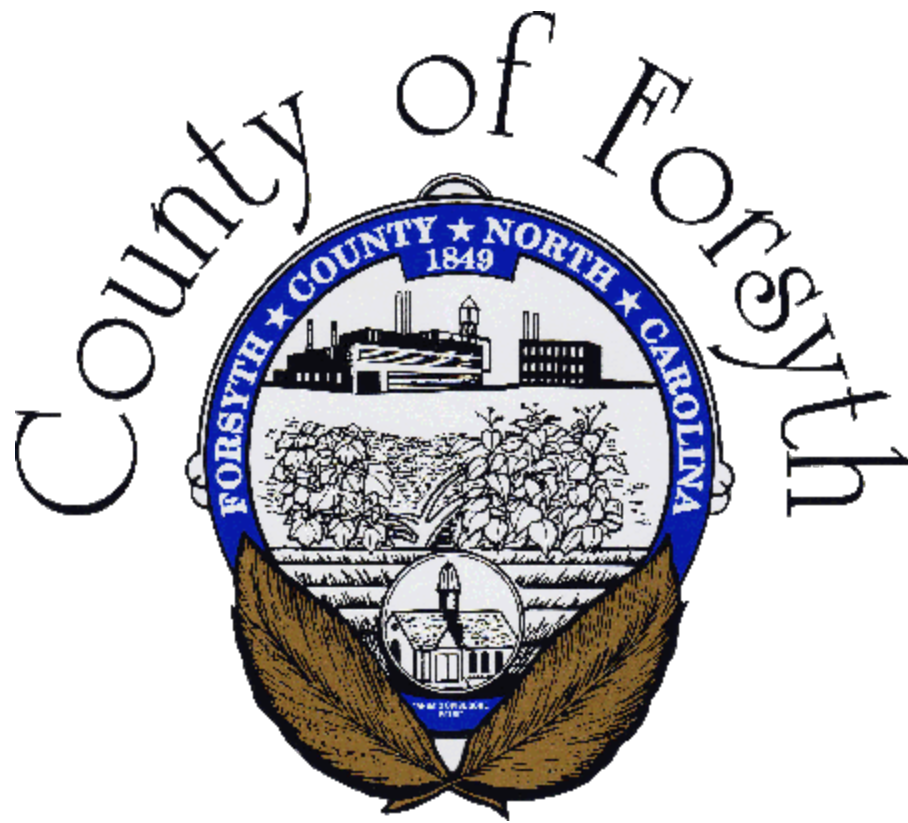
The project manager will provide bi-monthly updates tracking the progress of the project. These updates will include the project's current status, identification of any problems and solutions to overcome the problems encountered, a detailed financial summary of all expenditures and the remaining grant fund balance, and an updated project schedule. Once the project is completed, the County and Sheriff will monitor performance of the Communication Centers per current standards. Forsyth County utilizes a performance measure dashboard system, "County Measures," to collect, evaluate and disseminate information about departments. The current 911 Communication Centers for the County and Sheriff collect performance metrics that are entered into County Measures. The County Measures data provide an opportunity for county staff to regularly evaluate and ensure performance metrics are achieved, while also exposing opportunities where improved efficiencies and performance can be achieved. Specific measures include:

- Average number of 911 rings to phone pick up
- Time from call received to dispatch
- Time from phone pick up to call transfer (when required)
- Number of calls received (911 and non-emergency)
- Types of calls for service received (Fire, EMS, Law Enforcement, Service, etc.)
- 10% of 911 calls are audited each month by the Communications Manager. The Communications Manager collects qualitative and quantitative information from these randomly selected 911 calls. This information is then shared with the telecommunicator to improve system performance and identify potential training opportunities.

These metrics are collected and evaluated regularly to ensure 911 communication in Forsyth County is compliant with local, state and federal standards, and to identify ways to constantly improve service delivery.

**Public Safety Center (2<sup>nd</sup> Floor)**  
Architect Plans for Forsyth County 911 Center Relocation





*Forsyth County*  
*Technology*  
*Business Plan*

*2015*



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# Business Plan

## Message from the CIO

*“ Information Technology will play an important role in enabling Forsyth County Government to fulfill greater goals in the future as in the past. Greater capabilities will come in the form of newer technologies and techniques. I foresee a great surge of IT related initiatives that will aid all departments in conducting their duties with greater accuracy and speed. A recent extensive face-to-face survey (see Appendix A) has revealed a plethora of needs for current and near horizon events that are incorporated into this planning process. Many of these share a commonality of needs that will be addressed on a global front across the County. “*

## Department Overview

*Information Technology got its humble start in Forsyth County with an IBM 1401 accounting machine in the Tax Office in the 1960's. In 1965, the Data Processing Department was created as a service department for all of Forsyth County. In the 1980's, the department was re-named Management Information Services to reflect the broader role it had taken on within the County. The department has seen quite a bit of growth over the years as computing power has made it's way out of the traditional computer room and into the offices and mobile settings we see today.*

## Mission Statement

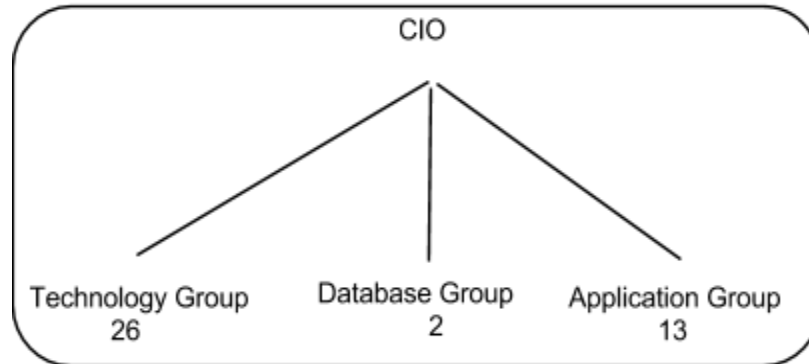
*To further the goals of Forsyth County Government by providing a flexible information network that can deliver services securely, timely and within budget .*

*( MIS's Motto - Provoco ad status quo 'challenge the status quo' )*

## Outliers

*Sheriff's Office - An outlier from the centralized IT concept lies within the Sheriff's Office. That office has been given permission to maintain their end devices and e-mail and file servers. The Sheriff's Office is tightly linked with the Police Department via a criminal record system across a fiber network provided by MIS and City ITS. County MIS still provides basic IT services including network firewall, voice services, all network connectivity and backup services for the Sheriff's Office.*

## Organizational Structure



## Core IT Services

*Network Connections*

*Software*

*Database Services*

*Data Storage*

*Phone Services*

*Data Protection Services*

*Security*

*Consulting*

*End Point Devices*

## Guiding Principles of MIS

- *Information Technology should enable the staff to make sound decisions anytime - anywhere.*
- *Centralize IT functions whenever possible to increase efficiencies and collaboration.*
- *Maintain a secure IT environment to ensure data is not lost, corrupted or divulged.*
- *Enterprise data is a valuable, irreplaceable asset.*
- *Value added projects lead the list.*
- *Assist the Information Technology consumer to accomplish his goals. ( be courteous , compassionate & speedy )*
- *In-Staff Training - Institute Knowledge sharing on ALL levels.*
- *Closely match the computing needs to the end-user's requirements.*

## Current Trending Technologies

*Trending toward the digital world has been a theme in the County for a number of years. Below are some examples of that movement and anticipated future trends.*

### *Printing*

*The County currently maintains a printer fleet and a copier fleet. Our current ‘copier fleet’ is in reality a ‘multi function printer’ (MFP) fleet. These MFP’s can copy, scan and print. The County will continue to steer staff toward these devices to reduce the overall cost of maintaining multiple fleets as well as a better ‘per sheet’ cost utilizing the MFP’s.*

### *Faxing*

*Faxing is quickly becoming the new ‘wagon wheel’ of the technology age. E-Mail has replaced faxing in the most part internally within Forsyth County Government. However there are some outside agencies that still rely on fax technology. To that end, we are actively researching a digital stand-in to capture and distribute ‘Faxes.’*

### *Physical Access*

*Physical access to sensitive areas within the County has long been controlled through the traditional ‘lock & key.’ However, keys are easy to lose and they offer no auditing of access. Keyless access has been used for general admission to buildings over the years. A trend now is to move all access needs to one proximity card. This card will enable tracking, security alerts, day/time limits, and deactivation. In addition there will be increased emphasis on video surveillance consolidation and collaboration with access controls.*

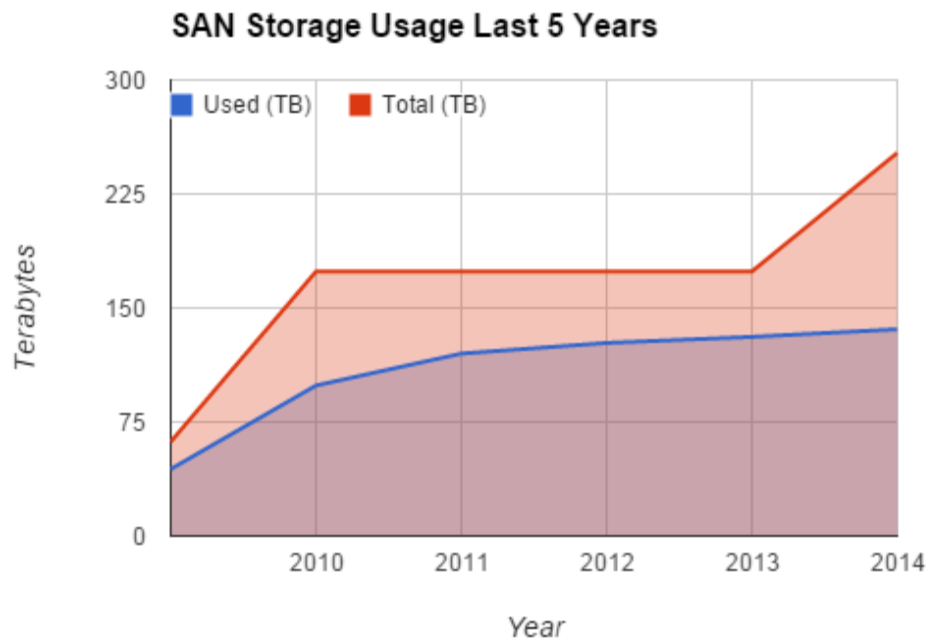
### *End Device*

*The holy grail of IT for many years has been : “How to rightsize an effective end-device for the staff AND keep up with ever changing software upgrades.” In a move away from a “one size fits all” business model, MIS is reviewing each replacement on a need basis. Here are some current numbers of newer technology ‘end-user’ devices ( 42 ChromeBooks in use , 20 Virtual Desktop devices. )*

*These active tests will tell us more about their capabilities as staff use them in everyday scenarios. The pressure that has been put on the traditional PC is evident through tablets and other innovations (PC on a Stick) that use traditional software operating system. The long term solution appears to steer all new software development and acquisitions to web-based. In that way we can achieve a ‘device agnostic’ state that greatly opens the device play ground.*

### **Data Storage & Server Farm**

*Data storage requirements have growth as one can imagine over the years. Fortunately, storage area networks have practically become commodity items in the IT market. So much so that we are now leasing ‘capacity’ for our needs. Below is a chart of the last five years of storage usage.*



*The MIS ‘server farm’ totals around 45 active physical servers. Out of those are a large number of virtual servers as well that have a lower maintenance footprint.*

### **The CLOUD**

*Forsyth County was one of the first County Government in North Carolina to transition to ‘cloud based’ e-mail and office productivity tools when MIS launched Google G-Mail and Doc’s in*

2013. The cost savings over ten years has been estimated at \$800,000. The savings come from reduce licensing and e-mail server reduction (4). All County staff now use G-Mail and over eighty percent of County staff use Google doc's. There are still some departmental functions that require use of traditional software when communicating with outside agencies. It is anticipated that as Google improves its product , that number will rise. The ability to access e-mail and documents anywhere, anytime and to have the ability to collaborate in real time has garnered positive reviews from the staff.

What does the future hold for the cloud? A trend that is increasing in popularity is the acceptance of 'software as a service' SAAS. SAAS is written for the internet and allows the software AND the corresponding data to be maintained off site. As we have seen over the last few years, as newer software is written , many are engineered for SAAS. As current departmental software reaches 'end of life,' SAAS offerings will be our top candidates in an ongoing effort to reduce server and software maintenance costs.

#### *Bring Your Device*

The County is currently experimenting with a Bring Your Own Device (BYOD) initiative. Employees who have a desire to buy a device (iPhone or iPad) and who have a business need to use that device while performing County duties are given a payroll stipend to help defray the cost. Currently there are around 74 employees who are enrolled in the program! Obviously, both employee and employer are seeing positive results.

# Key Performance Measures

## 1. Business Intelligence

- Give staff ready access to required Business Intelligence.

### a. Initiatives

- Refresh end devices on a regular schedule
- Review key capital hardware yearly
- Review key capital software solutions yearly (determine life cycle )
- Train Staff on IT Applications, Methods and Tips
- Be responsive to staff in need of assistance

## 2. Maintain IT Security

- Protect County Data from ALL threats

### a. Initiatives

- Review Network Security on a regular schedule
- Maintain and adhere to the IT Security Policy
- Every three years (or better) stress test network security with an outside party

## 3. Project Management

- Quality Projects are Completed On Time & On Budget

### a. Initiatives

- Maintain Major Project database
- Grade Projects by key factors
- Survey departments semi-annually for project satisfaction

## 4. Recruit, Train & Retain Professional IT Staff

- Maintain a skilled, current IT staff

### a. Initiatives

- Budget for explicit training opportunities
- Solicit feedback from IT staff of training needs
- Create an atmosphere that is conducive for creative thought & action

## 5. Research New Technologies

- Keep abreast of new technologies that could be future 'game changers'

### a. Initiatives

- Research, test, & showcase new technologies to staff & departments
- Research software development tools - especially those that reduce 'time to production'

# IT Strategic Plan

*Stated Goal . . . To guide Forsyth County's IT efforts through the next 3-5 years. Considerations will be made towards the following benefits:*

- ❖ *cost effectiveness*
- ❖ *return on investment*
- ❖ *State & Federal mandates*
- ❖ *innovation*
- ❖ *problem solving*
- ❖ *clear benefits to guide project genesis*
- ❖ *measurable results*

## ● Year 1

- Review Capital Hardware & Software establish replacement schedule particularly the Mission Critical Systems (see Appendix G)
- Consolidate Public Safety computer aided dispatch into one area with backup site (see Appendix F)
- Review County Wide Point-of-Sales offerings with credit card acceptance
- Increase Staff Training capability in regards to space, content, and IT knowledge sharing offerings.
- Review Document Imaging software offerings
- Develop Project Guidelines/Policy so that ALL are aware of how projects are prosecuted
- Review ALL Internal Software - Refresh -or- Replace
- Disaster Recovery- Collaborate with WS/FCS & FTCC - establish committee with key attendees
  - Develop Joint Disaster Readiness Plan

## ● Year 2

- Security - Conduct a Security Summit to review security Camera/ video/ sensors across the County ( if time allows - push into Year 1 )
  - Establish a security team - Departmental Members included
- Review Telecommunications - Project a clear path for future telecommunications traffic/devices.
- Web PUSH - Develop Framework to enable 'citizen data push.'
- Establish a "Network Operations Center" to enable real time monitoring of our network - spot small issues before they become big problems.
- Research Predictive software to help move us from reactive to proactive response stance... EMS, A/C, Sheriff, P Health, Animal Control

## Year 3

- Data Mining Tools - review options / needs / costs
- By now the 'Mobile/Wearable' marketplace should be well established
  - Take Business Intelligence to the field
- Sensor driven events controlled by computer intelligence



## Appendix A - Departmental Sweep Interview Results

### 01. *Action Indicators*

- a. Major Software - Finance, Payroll, Budget, HRIS
- b. Major Hardware - Radio, Elections - End of Life coming on these
- c. Auxiliary Software - Tax, Finance, Timekeeping & Web enhancements
- d. Training - Departments are asking for more training to be more efficient & knowledgeable.
- e. Point of Sale - many have voiced interest in collecting payment via Credit Card
- f. *Security* - cameras, access control [ combine these needs - look for flexible solution across many departments]
- g. *Doc Imaging* - More document imaging desired [review long term position]
- h. *GIS* - Many see the advantages of GIS as an analytical tool
- i. *Mobile/Wearable* - Work force that does not need to be tethered to a desktop unit
- j. *Big Data* - Many departments are grappling with analysis & reporting on large data sets
- k. *IT Staffing* - Is MIS deep enough ?
- l. *Requests/Weaknesses noted:*
  - i. Wifi in some outlying locations
  - ii. Help desk depth
  - iii. Admin Rights - Light resistance
  - iv. Google restricted by State requirements ( PH, Ag, BOE, Envir )
  - v. Departmental say in Global Software solutions that directly affect them

## Appendix B - Technology Group Active Projects

Project Name	Department	Estimated Effort (hours)	Introduction Date	Target Date	Notes
Data Protection Replication site for WSFCS	MIS	20		2/13/2015	In Process; Scheduled 2/9/2015 for replication tests (Final Phase)
Malware remediation software implementation	Countywide	40	10/22/2014	2/6/2015	Last Departments week of 2/2/2015
eFax Solution Phase 1	Countywide	100		12/31/2014	Xmedius solution. Server build in-process; Fax number port in-process
eFax Solution Phase 2 (Pilot Departments)	Countywide	20		3/27/2015	
HIPAA Risk Analysis Phase	Countywide	40	10/6/2014	12/31/2014	Reviewing software tools available
ROD DMZ Transition	ROD		5/1/2014	2/27/2015	2/6/2015: 75% completed
Migrate VMware from Dell to UCS	MIS	40		1/31/2015	50%
Cisco Phone System version upgrade (8.6.2 -> 10.5)	Countywide	80		3/31/2015	Finalizing Planning phase of Project
HOJ Upfit - Digital Signage	GSV	100	9/29/2014	3/31/2015	2/6/2015: Equipment arriving week of 2/2/2015
Network Security Assessment	MIS	120	7/1/2014	3/31/2015	2/6/2015: Onsite Phase COMPLETED
HOJ Upfit - Courtroom Technology (5A & 6A)	GSV	160	9/29/2014	6/30/2015	Dependent on General Services construction schedule
HOJ Upfit - Wireless access	GSV	80	9/29/2014	6/30/2015	Jury Room in process; Additional bandwidth on order
Fleet Fuelmaster (Conversion from Gasboy to retail system)	GSV	160	10/22/2014	6/30/2015	Fuel master will replace but that is phase 2 a few months out. Phase 1 is credit cards in the cars.
Probation & Parole Construction Project	GSV	200		6/30/2015	Dependent on General Services construction schedule
Integrate LEDC Camera access into PSF Network visibility	SHR	120	11/5/2014	6/30/2015	
HIPAA Risk Mitigation Tools	Countywide			12/31/2015	Pending FY16 Budget
CureMD Project	Health			2/27/2015	In Execution Phase
Emergency Phones in GC Parking Deck				3/13/2015	Replace phone guts in GC parking deck emergency phones
Metro-E Tanglewood Circuit	Tanglewood			2/27/2015	In Execution Phase
Tanglewood Aquatic Center pump house connectivity	Tanglewood			2/27/2015	75%

## Appendix C - Application Group Active Projects

<i>Project Name</i>	<i>Depart</i>	<i>Status</i>	<i>Effort EST.</i>	<i>EST. Comp Date</i>	<i>Request as Submitted by User</i>
<i>Automate Direct Purchase (DP's) Process</i>	<i>Finance</i>	<i>Underway</i>		<i>3/1/2015</i>	<i>Another huge time saver for both Finance and departments.</i>
<i>Mileage System</i>	<i>GS</i>	<i>Underway</i>	<i>TBD, est 40 hrs</i>	<i>2/13/2015</i>	<i>Routine Request: Fleet is planning on moving away from GasBoy and will be using the Wright Express credit card system for all gas transaction.</i>
<i>Payroll Deductions Reconciliation</i>	<i>HR</i>	<i>Underway</i>		<i>12/1/2014</i>	<i>Automate HR process to do monthly deduction reconciliations.</i>
<i>FMLA Reporting</i>	<i>HR</i>	<i>Underway</i>		<i>3/31/2015</i>	<i>Online system for HR to process and track all FMLA requests.</i>
<i>Evaluate Parks Software</i>	<i>Parks</i>	<i>Underway</i>	<i>40 hrs</i>		<i>Change Requested: evaluate the Vermont Systems software based upon the needs of the Parks &amp; Recreation Department.</i>
<i>Tax Revaluation</i>	<i>Tax</i>	<i>Underway</i>	<i>120 hrs</i>	<i>1/15/2014</i>	<i>Continue Tax.Net Reval system for 2 more years and plan transition.</i>
<i>NCPTS Data Load</i>	<i>Tax</i>	<i>Underway</i>			<i>Revise data interface ( Tax.net - Farragut) per request from Tax.</i>
<i>FRED's List</i>	<i>General Services</i>	<i>Underway</i>		<i>3/1/2015</i>	<i>Surplus property management program.</i>
<i>Case Management System</i>	<i>Attorney</i>	<i>Under Review</i>			<i>Enhance the Case Management System.</i>
<i>Payroll Test System</i>	<i>Finance</i>	<i>Under Review</i>		<i>3/31/2015</i>	<i>Develop a parallel test platform so that code changes can be made and tested in a sterile environment.</i>
<i>Payroll Data Display</i>	<i>Finance</i>	<i>Ready to move to production</i>		<i>11/18/2014</i>	<i>Give Finance staff online access to payroll data by employee and department.</i>
<i>Docuware</i>	<i>DSS/Tax/HR</i>	<i>Ongoing</i>			<i>Ongoing support of the docuware product used in several departments.</i>
<i>FCNet Enhancement</i>	<i>All</i>	<i>On Hold</i>			<i>Revamp the method of posting and viewing documents in FCNet to make it much easier for employees to find things, and to give key staff direct access to upload or remove documents.</i>
<i>Budget Document</i>	<i>Budget</i>	<i>Meeting Scheduled</i>	<i>TBD</i>		<i>Review Budget Publishing procedures - very manual process now.</i>
<i>FCNet Help Area for DSS</i>	<i>DSS</i>	<i>Meeting Scheduled</i>	<i>10 hrs</i>	<i>12/11/2014</i>	<i>Post information regarding the training, updates and procedures for DSS employees.</i>
<i>FCSO Time Reporting Process</i>	<i>FCSO</i>	<i>Analysis underway</i>	<i>TBD</i>	<i>6/30/2015</i>	<i>Replace the legacy Service Report system for the FCSO with the County Timesheet solution.</i>

Service Report Replacement	Finance		40 hrs	6/30/2015	Replace the legacy Service Report system with a new process to be added to the Timesheet System. Handle this in conjunction with moving the FCSO to our timekeeping system.
PROJECTS in WAITING BELOW					
Online Budget Transfer System	Budget				Change Requested: Automate Budget Transfer system a la Change Control.
Upgrade to HRIS Budget Request process	Budget				The current process is written to process new positions in one way only, and this does not reflect the reality that Budget faces and it causes extra work and confusion. Need to make the coded process reflect Budget's process.
Online Budget Submission	Budget				Budget requests that we look to see if there is a simple way to automate the process used by departments to submit their budget requests.
Stipends	Budget				Process is working but it was never completely designed with rules and workflow.
Retro Pay Calculator	Finance				Develop a tool to compute back pay - something Payroll staff have to do every pay period through a manual process.
EOY Split Payroll Process	Finance				Fix critical EOY process bugs.
Performance Appraisal System	HR				HR would like to significantly change the methodology used for Performance Evaluations. There is also a desire to make this process fully electronic, including signatures and storage for HR employee files.
HRIS Change History	HR				HRIS screens are needed that show all changes made to Employee, Action, Position, and Class records.
Holiday Leave	Finance/HR				Code in HRIS and Payroll will be needed if the County adopts the proposed changes to the way holiday hours are awarded.
Parks Facilities Reservation	Parks				Revise Tanglewood shelter rental periods.
Non Tax Process	Tax				Assist Tax with this process. Not a current NCPTS function.
Tax Bill Online	Tax				Assist as needed - Tax Bill look-up and the Forte Tax Bill payment process.
HRIS Test System					A test system is needed and has been for a long time so that code and process changes can be adequately tested.
FCSO Purchases	FCSO				Request to automate the cumbersome paper process for requesting and approving departmental purchases.
Public Web Upgrade	All				Website upgrade needed after 5 years; this has been requested by Tax, Parks, Library, Public Health, DSS and Animal Control. Will move to a new template that will make it much easier to give different departments a variety of design options for their pages while still using an overall County structure. This will also create a mobile version of all of our web pages for better display on a phone or other mobile device.

## Appendix D - Application Group Software Inventory

<b>Name</b>	<b>Type</b>	<b>Department</b>	<b>Description</b>
<i>Docuware</i>	<i>Third Party</i>	<i>All</i>	<i>Imaging Software used in DSS, Tax, HR, and Finance.</i>
<i>Calendar - Forsyth County Events</i>	<i>Web</i>	<i>All</i>	<i>Web tool to add events to the FCNet Countywide calendar.</i>
<i>County Measures</i>	<i>Web</i>	<i>All</i>	<i>Internal web app for entering and tracking performance measures.</i>
<i>FCNet</i>	<i>Web</i>	<i>All</i>	<i>County Intranet</i>
<i>FCNet - Departmental Administrative Tools</i>	<i>Web</i>	<i>All</i>	<i>Web app that allows administrative staff in each department to view extensive HR data on each of their employees.</i>
<i>FCNet - Employee Self Service</i>	<i>Web</i>	<i>All</i>	<i>Web site and tools for employees to view key data (HR, payroll, training &amp; more) via the county intranet.</i>
<i>Website, Public (www.forsyth.cc)</i>	<i>Website</i>	<i>All</i>	<i>County website</i>
<i>Chameleon</i>	<i>Third Party</i>	<i>Animal Control</i>	<i>System used by Animal Control.</i>
<i>Animal Control - Adoption</i>	<i>Web</i>	<i>Animal Control</i>	<i>A website listing off all adoptable animals supported by an automated process that updates the list from the Chameleon database every hour.</i>
<i>Animal Control - Lost &amp; Found</i>	<i>Web</i>	<i>Animal Control</i>	<i>A web display of lost animals posted by the public, and found animals either posted by the public or pulled directly from the AC Chameleon database by an automated hourly process.</i>
<i>Attorney Case Tracking</i>	<i>Client Server</i>	<i>Attorney</i>	<i>This needs to be re-written as a web app, as it hasn't been modified in over 20 years and the current system will not run on Win 7. Preliminary meetings with the Attorney's staff have taken place.</i>
<i>BOE ERNI</i>	<i>Client Server</i>	<i>Board of Elections</i>	<i>BOE Erni Application</i>
<i>Calendar - Pollworker Training</i>	<i>Web</i>	<i>Board of Elections</i>	<i>System for BOE staff to post training times and for poll workers to sign up online.</i>
<i>Pollworker Training</i>	<i>Web</i>	<i>Board of Elections</i>	<i>Front end of BOE Calendar allowing poll workers to sign up for training.</i>
<i>Position Action Request</i>	<i>Web</i>	<i>Budget</i>	<i>This system is to be used to enter a request to have a position reviewed by the Position Action Committee.</i>
<i>Calendar - CES Room Reservations</i>	<i>Web</i>	<i>CES</i>	<i>Web tool for CES staff to book their meeting rooms.</i>
<i>Community Gardening Website</i>	<i>Website</i>	<i>CES</i>	<i>Website for CES</i>
<i>Jury</i>	<i>Client Server</i>	<i>Clerk of Courts</i>	<i>Jury system used by the Clerk of Courts</i>
<i>Commissioner Appointments</i>	<i>Client Server</i>	<i>Commissioner/Manager</i>	<i>System that lists all appointments on Boards, Committees and Commissions. This is the back end</i>

			<i>data and it is used in conjunction with the web tool that allows the public to sign up for openings.</i>
<i>Commissioners' Meeting Minutes</i>	<i>Third Party</i>	<i>Commissioner/Manager</i>	<i>MCCi Innovations</i>
<i>Appointment Applications</i>	<i>Web</i>	<i>Commissioner/Manager</i>	<i>Admin tool for applicants of positions appointed by County Commissioners</i>
<i>Commissioner Agendas</i>	<i>Web</i>	<i>Commissioner/Manager</i>	<i>Posting of agendas and summaries</i>
<i>Contract Control</i>	<i>Web</i>	<i>Commissioner/Manager</i>	<i>Web app for submitting and processing contracts.</i>
<i>County Code of Ordinances</i>	<i>Web</i>	<i>Commissioner/Manager</i>	<i>Municode</i>
<i>Employee Suggestion Box</i>	<i>Web</i>	<i>Commissioner/Manager</i>	<i>One iteration of Suggestion Box (found in FCNet project)</i>
<i>EAP Tracking</i>	<i>Web</i>	<i>Envir. Assistance</i>	<i>Internal web, not yet in Production</i>
<i>Inspections</i>	<i>Web</i>	<i>Envir. Assistance</i>	<i>Internal web; to be replaced by EAP Tracking</i>
<i>Finance Forms</i>	<i>Client Server</i>	<i>Finance</i>	<i>Old Service Vouchers application.</i>
<i>Health Insurance Reconciliation</i>	<i>Client Server</i>	<i>Finance</i>	<i>Used by Finance</i>
<i>Pay Calculator</i>	<i>Client Server</i>	<i>Finance</i>	<i>Tool to compute a paycheck outside of the normal payroll process.</i>
<i>Payroll</i>	<i>Client Server</i>	<i>Finance</i>	<i>Biweekly process to handle payroll and its many related reports and files.</i>
<i>Payroll Garnishments</i>	<i>Client Server</i>	<i>Finance</i>	<i>Tool used by Finance to enter garnishments for each payroll cycle.</i>
<i>Payroll Online</i>	<i>Client Server</i>	<i>Finance</i>	<i>System used by Finance to enter and process payroll data, to create reports, and to handle many other payroll related functions.</i>
<i>Service Reports</i>	<i>Client Server</i>	<i>Finance</i>	<i>Old system used as part of the payroll process. Currently only used by the FCSO and for one function in Finance. Will soon be rendered obsolete by functionality in the new Timekeeping system.</i>
<i>TDA Payroll</i>	<i>Client Server</i>	<i>Finance</i>	<i>Used by Finance to generate pay for TDA staff.</i>
<i>Calendar - Payroll (In Timesheet System)</i>	<i>Web</i>	<i>Finance</i>	<i>Payroll date calendar</i>
<i>Online Service Vouchers</i>	<i>Web</i>	<i>Finance</i>	<i>Web system for electronic processing of Service Vouchers.</i>
<i>Paystubs</i>	<i>Web</i>	<i>Finance</i>	<i>Web app allowing employees to view all their paystubs.</i>
<i>Safety Suggestion Box</i>	<i>Web</i>	<i>Finance</i>	<i>One iteration of Suggestion Box (found in FCNet project)</i>
<i>Stipends</i>	<i>Web</i>	<i>Finance</i>	<i>Web app that handles stipends made through the payroll system.</i>

<i>Timesheets</i>	<i>Web</i>	<i>Finance</i>	<i>Web app for reporting time and leave, and for many back end administrative processes used by HR and Finance staff.</i>
<i>Mileage</i>	<i>Client Server</i>	<i>General Services</i>	<i>Fleet tool to import data from the GasBoy and new credit card system for analysis, reporting and charge outs to departments.</i>
<i>MapForsyth Website</i>	<i>Website</i>	<i>GIO</i>	<i>Website for GIO group</i>
<i>New Century IDA Website</i>	<i>Website</i>	<i>Housing</i>	<i>Website for Housing</i>
<i>HRIS</i>	<i>Client Server</i>	<i>Human Resources</i>	<i>HR system with data on employees, positions and class codes.</i>
<i>Arts Council Pledges</i>	<i>Web</i>	<i>Human Resources</i>	<i>A system for departments to enter Arts Council pledges. Same project / DB as United Way.</i>
<i>Ask HR</i>	<i>Web</i>	<i>Human Resources</i>	<i>A system for employees to send questions to HR, and for HR to answer these through a back end that allows HR staff to see all previous questions and answers.</i>
<i>Calendar - Holiday (In Timesheet System)</i>	<i>Web</i>	<i>Human Resources</i>	<i>Tool that allows HR staff to update the Holiday Schedule for payroll purposes.</i>
<i>Calendar - HR Training &amp; Events</i>	<i>Web</i>	<i>Human Resources</i>	<i>Web system for HR to post employee training opportunities and events.</i>
<i>Hourly Adjustment Calculator</i>	<i>Web</i>	<i>Human Resources</i>	<i>Tool HR uses to show salary for a given employee if adjusted by a certain percentage from the current hourly rate</i>
<i>HR Exit Interview</i>	<i>Web</i>	<i>Human Resources</i>	<i>Web tool to collect and analyze responses given by employees as then terminate their employment.</i>
<i>Job Applications (Reference Only)</i>	<i>Web</i>	<i>Human Resources</i>	<i>Data from old Job Applications system. Replaced by NEOGOV; for reference only.</i>
<i>Market Rate Calculator</i>	<i>Web</i>	<i>Human Resources</i>	<i>Tool used by HR to compare and analyze market rates of two different positions / employees.</i>
<i>Performance Appraisal</i>	<i>Web</i>	<i>Human Resources</i>	<i>Web app for entering all employee performance appraisals.</i>
<i>Performance Appraisal Inquiry Admin</i>	<i>Web</i>	<i>Human Resources</i>	<i>Admin for inquiries about the Performance Appraisal process</i>
<i>United Way Pledges</i>	<i>Web</i>	<i>Human Resources</i>	<i>A system for departments to enter United Way pledges. Same project / DB as Arts Council.</i>
<i>Computer Training Bridge</i>	<i>Web</i>	<i>Library</i>	<i>Website listing classes, dates, locations, etc. Includes public sign up and administrative management.</i>
<i>Summer Reading Program</i>	<i>Web</i>	<i>Library</i>	<i>Webpage used by the Library for their Summer promotion.</i>
<i>Web Events Calendar</i>	<i>Third Party</i>	<i>MIS</i>	<i>Public Web Event calendar; we are moving to Google calendars to eliminate the \$1,000 maintenance cost of this product.</i>
<i>Calendar - MIS Training</i>	<i>Web</i>	<i>MIS</i>	<i>Web tool for the MIS Training Staff to list their training classes. Allows County employees to sign up for classes and has a back end admin tool for reporting and more.</i>

<i>Calendar Admin</i>	<i>Web</i>	<i>MIS</i>	<i>Web app for the Applications Solutions team to manage all of the web calendars.</i>
<i>County Website Admin</i>	<i>Web</i>	<i>MIS</i>	<i>Misc. activities under website admin (meeting docs, etc.)</i>
<i>FCNet Tools</i>	<i>Web</i>	<i>MIS</i>	<i>Internal web, part of FCNet.</i>
<i>IT Apps Website</i>	<i>Web</i>	<i>MIS</i>	<i>Web tool to allow users to submit requests and report errors to the IT Application Solutions team.</i>
<i>MIS Alerts</i>	<i>Web</i>	<i>MIS</i>	<i>MIS Alert System; alerts display on FCNet.</i>
<i>Manor House Reservations</i>	<i>Third Party</i>	<i>Parks</i>	<i>RezOvation back end for online reservations, incorporated into the Manor House website.</i>
<i>Park Reservations System</i>	<i>Web</i>	<i>Parks</i>	<i>Internal administrative part of the system for making all park facilities reservations.</i>
<i>Parks Reservation Web Request</i>	<i>Web</i>	<i>Parks</i>	<i>Web system allowing the public to see availability of all park facilities and to request a reservation.</i>
<i>Festival of Lights Website</i>	<i>Website</i>	<i>Parks</i>	<i>Website for Parks</i>
<i>Tanglewood RV Campground Website</i>	<i>Website</i>	<i>Parks</i>	<i>Website for RV Campground at Tanglewood. Connects to CampingFriend.com for online reservations.</i>
<i>Public Health Timekeeping</i>	<i>Client Server</i>	<i>Public Health</i>	<i>Timekeeping system for PH to collect data that is reported to the State for reimbursement.</i>
<i>Calendar - Public Health Training</i>	<i>Web</i>	<i>Public Health</i>	<i>Web system for PH staff to list training classes so employees can sign up.</i>
<i>JustWalk</i>	<i>Web</i>	<i>Public Health</i>	<i>Web app for users signing up for the Just Walk program in Public Health. Includes admin back end. Shares DLLs with Step Up Forsyth.</i>
<i>Step Up Forsyth</i>	<i>Web</i>	<i>Public Health</i>	<i>Web app for users signing up for the Step Up Forsyth program in Public Health. Includes admin back end. Shares DLLs with Just Walk.</i>
<i>Infant Mortality Reduction Coalition Website</i>	<i>Website</i>	<i>Public Health</i>	<i>Site written to promote the Infant Mortality Coalition; supported by PH</i>
<i>POSSE Website</i>	<i>Website</i>	<i>Public Health</i>	<i>Website for Public Health.</i>
<i>Smoke Free Forsyth Website</i>	<i>Website</i>	<i>Public Health</i>	<i>Website for Public Health</i>
<i>ROD Marriage License Application</i>	<i>Web</i>	<i>Register of Deeds</i>	<i>Web tool to allow the public to complete a Marriage License application online. Data is then electronically pulled into the 3rd party (BIS) system used by the ROD.</i>
<i>Sheriff Fitness</i>	<i>Client Server</i>	<i>Sheriff</i>	<i>Tracking system for the FCSO fitness testing of job applicants.</i>
<i>Calendar - Sheriff Training</i>	<i>Web</i>	<i>Sheriff</i>	<i>Web tool for FCSO to list employee training opportunities and for staff to sign up for classes.</i>
<i>Docufast Process</i>	<i>Client Server</i>	<i>Social Services</i>	<i>DSS - State / FOCUS data merge for Docuware indexing</i>
<i>DSS Interface</i>	<i>Client Server</i>	<i>Social Services</i>	



<b>FOCUS</b>	Client Server	Social Services	C/S system for client information. This is gradually being replaced by NCFAS.
Calendar - DSS Room Reservations	Web	Social Services	Web tool for DSS staff to book any of their conference rooms.
Calendar - DSS Training	Web	Social Services	Web tool for the DSS Training Staff to list their training classes. Allows staff to sign up for classes and has a back end admin tool for reporting and more.
Calendar - DSS Transportation	Web	Social Services	Web tool for DSS to book the rides given by the transportation staff.
Calendar - DSS Visitation	Web	Social Services	Web tool for DSS Adoption/Foster Care staff to book their visitation rooms.
CPS Online	Web	Social Services	Web app used to record and process all calls to the child abuse line.
DSS Student Lookup	Web	Social Services	Gives DSS staff access to basic WS/FCS student information for verification purposes
Aging Committee Website	Website	Social Services	Website supported by a PT position at DSS in Adult Services.
<b>Tax Collections</b>	Client Server	Tax	Collections portion of Tax.Net. Ongoing functions moved to NCPTS on 7/1/2014. This will eventually be obsolete.
<b>Tax Revaluation</b>	Client Server	Tax	Process to run on Tax.NET from 1/2015 - 7/2016
<b>Tax.NET</b>	Client Server	Tax	Tax.net system; will eventually be replaced by NCPTS.
NCPTS (Tax System)	Third Party	Tax	Farragut
Tax Bill Payments (Forte)	Third Party	Tax	Forte Payment Systems - requires API to access
Tax Bill Archive	Web	Tax	Tax Bill Archive for bills 2005 and prior
Tax Bill Lookup Archive	Web	Tax	Tax Bill Lookup archive for bills prior to 7-2-2014
Tax Bill Payments (web gateway)	Web	Tax	Online Tax Bill look-up / payment gateway.
<b>Youth</b>	Client Server	Youth	Youth services app with client information.

**Legend : Yellow - to be replaced or retired in the near future**

## Appendix E - List of Foreseeable Systems

*( New, Replace or Refresh )*

*Finance / Budget / Purchasing*

*Payroll System*

*HRIS System*

*Document Imaging System*

*Electronic Poll Book*

*Combined CAD System*

*NextGen 911*

*Online Budget Transfer System*

*Point of Sale*

*Warehouse Automation*

*EMS Inventory*

*Open Data Portal ( General & GIO )*

*Fleet Management*

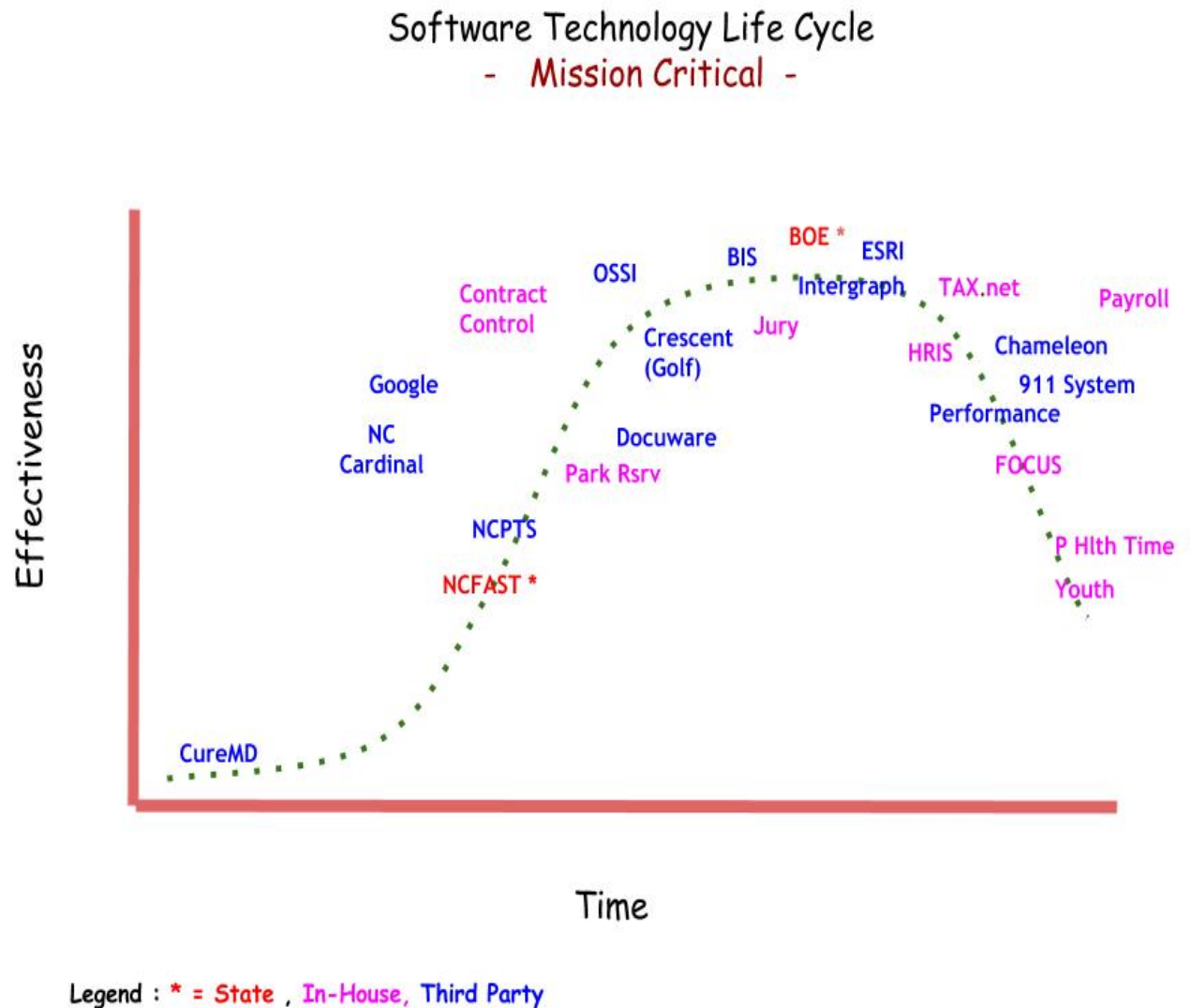
*Predictive Software ( EMS, Budget, Sheriff )*

## Appendix F - Consolidated Public Safety Computer Aided Dispatch Plan

- *The County is seeking to have all of its consoles replaced with P25 technology by FY 2018.*
- *It is the County's goal to have an interoperable computer aided dispatch between all of our Public Safety Answering Points (PSAP) and to advocate for our public safety partners within Forsyth County to do likewise.*
- *To facilitate an adequate pool of available 9-1-1 communicators we will work with our local community college to train potential candidates on our equipment in our community.*
- *We will cautiously update our equipment recognizing that internet protocol based systems are the future of emergency communications although analog is still prevalent today.*
- *We believe that there are efficiencies that result from co-locations and mergers. Co-locating has fewer impediments and is a first step toward merger, so the County will work toward this by making use of space in the newly purchased and renovated Public Safety Building; Locating both telecommunication command structures in the same workspace; and ultimately developing common standard operating guidelines.*

## Appendix G - Critical Systems Analysis

The author's attempt to depict the current state of mission critical software systems across the County.





North Carolina General Assembly  
House of Representatives

REPRESENTATIVE DONNY LAMBETH  
75TH DISTRICT

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COMMITTEES:  
CHAIR, APPROPRIATIONS  
CHAIR, HEALTH  
AGING  
EDUCATION K-12  
INSURANCE  
STATE PERSONNEL

July 7, 2016

Mr. Richard Taylor, Director  
NCDIT  
NC 911 Board  
PO Box 17209  
Raleigh, North Carolina 27619-7209

Dear Mr. Taylor:

The purpose of this letter is to offer support for the 911 Board Grant application submitted by Forsyth County. If awarded, the grant would provide funding for the merger of the County E911 and the Sheriff Dispatch. Currently, both law enforcement dispatch and EMS call takers must separately dispatch emergency personnel. Having both law enforcement dispatch and EMS housed at a central location will allow a quick dispatch and better coordination between law enforcement and emergency management.

This is a necessary first step in moving the E911 Center into a state-of-the-art facility centrally located in downtown Winston-Salem that will be housed with Emergency Management, the Forsyth County Sheriff's Department, and the City/County Emergency Operations Center. With the completion of this project, all essential disciplines critical to large-scale disaster response will be with proximity to each other.

Upon completion of this project, the current center will be converted into a stand-alone back up facility for use by both the City and the County. The conversion will also allow the County to partner with Forsyth Technical Community College to use the fully functioning facility as a regional training resource.

Thank you for your consideration.

Sincerely,

A handwritten signature in cursive script that reads "Donny C. Lambeth".  
Donny C. Lambeth  
75<sup>th</sup> District



# North Carolina 911 Board Grant Application

## General Information

**Project Title**

Halifax County PSAP Replacement and Regional Backup

**Grant Fiscal Year - 2017**

**Project Director**

Heather Joyner

**Project Contact**

Heather Joyner

**Project Contact Title**

Halifax County E9-1-1 Communications Manager

**Address**

P.O. Box 677, 10 N. King St., Halifax, NC 27839

**Phone**

252-678-3788

**Email**

joynerh@halifaxnc.com

*Three types of grants are available, as described below. In the box following these descriptions, please select the Grant Type which most appropriately fits your request.*

- **Consolidation** - A consolidation project involves combining one or more PSAPs with a primary PSAP with an integrated management structure that serves the same populations and jurisdictions previously served by offering grant funding for both PSAP costs authorized under G.S. 143B-1406(e) and costs not authorized under G.S. 143B-1406(e) to include construction costs.
- **Individual PSAP Enhancement/Replacement** - the relocation costs of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.
- **Regional Initiative Enhancement/Replacement** - Regional initiatives are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such initiatives comprise projects involving two or more primary PSAPs or a primary PSAP with approved secondary PSAPs. Costs of relocation of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.

**Grant Type**    *Individual PSAP Enhancement/Replacement*

**PSAP Name**   *Halifax County Central Communications*

- 1.   *Has the Revenue/Expenditure Report for FY15 been completed and approved by the NC 911 Board Fiscal staff for the applicant PSAP?***

YES

- 2.   *Has the applicant PSAP submitted a plan and secured the means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP (backup plan)?***

NO

- 3.   *If the answer to #2 above is yes, does the PSAP have the means to implement the plan before 7/1/16?***

NO

- 4.   *If plan implementation will not occur before July 1, 2016, has an extension been requested?***

YES

-----

# Project Description

***Required for all grant types, this should be a thorough, concise, and complete description of the proposed project.***

## **5. Please outline project goals and objectives.**

The primary goal of the Grant Project is to replace the outdated and outgrown Halifax County PSAP with a new primary PSAP and to use the existing PSAP as Halifax County's backup center in order to satisfy the North Carolina backup plan requirement. Another goal of the project is to offer space in the facility for adjacent counties to use as a backup center.

The current Halifax County PSAP cannot support future communications needs of Halifax County residents and visitors. The current PSAP is 720 square feet and in the basement of the courthouse, it has no windows and only one entrance/exit door. There are not adequate sleeping, bathroom, break or showering facilities for the telecommunicators. Telecommunicators routinely have to sleep in the hallway during high call volume incidents. Halifax County has updated and expanded the current PSAP to its maximum and is in dire need of more space, but does not have the means to fund a new PSAP building and related upgrades to its current facility to serve as an adequate backup. Halifax County understands that this grant is a onetime allocation and is prepared to fund the ongoing costs to sustain the replacement PSAP and upgraded backup facilities into the future.

The new 10,772 square foot facility proposed for this project will be configured with eight system furniture positions in the emergency communications center and four additional system furniture positions installed in an adjacent room that is planned to be used by other PSAPs for backup operations and has the potential to serve future regional training initiatives. These four positions will also be used and routinely tested by the County for training purposes and overflow operations during high periods of incoming call volume, significant events or severe weather. Halifax County is currently procuring an eight position system that will be reconfigured for this project from a stand-alone system to a VESTA geo-diverse and redundant solution operational in both the primary and the backup centers. New answering positions and back room equipment will be added.

While Halifax will occupy the new facility as the County's primary PSAP, the facility could also serve as a regional backup center for adjacent counties. This grant project would provide Halifax County with a backup plan and has the potential to serve as the basis for a backup plan for at least four surrounding Counties. Halifax County has verbal commitments from Northampton and Warren counties to use the new facility for their backup purposes and is in discussions with at least two additional counties to expand to a regional backup plan. As the planning efforts and commitments are formalized, the participating counties will define their contribution, support and/or use agreements. At this planning stage, Halifax is leading the grant application process to procure an adequate facility as well as planning efforts to address regional backup needs to meet the backup requirements. This Grant Project would provide Halifax County with a backup plan and provide at least four surrounding counties without approved backup plans with the opportunity to use the proposed new facility as a backup. The new facility would have sufficient space in the equipment room and the required support areas to allow adjacent PSAPs to conduct their backup operations.

## **6. Please provide an implementation strategy and work plan, including a timeline.**

The implementation strategy for relocating the Halifax County PSAP is based on continuity of operations. The work plan will focus on coordination, monitoring and control of the multiple concurrent schedules for the facilities, technology and operational components of the process. The Master Schedule combines all project component schedules (facilities construction/renovation, technology and operations) as a single dynamic document for tracking activities, tasks, responsibilities, dependencies and milestone achievements through completion. The longest schedules will be the construction of the Halifax County primary PSAP. Working backwards from projected completion, all other schedules will be aligned within the longer schedule with tasks and activities working toward completion within the overall master schedule.

Initial planning will include the definition of needs for the primary PSAP, regional backup and secondary backup sites, serving as the basis for detailed design and implementation effort for the relocated primary PSAP. In order to allow continuation of current operations within the existing Halifax County PSAP, it is proposed to evaluate County owned sites for viability to construct the new PSAP facility as a new, free-standing facility. Preliminary programming activities will coincide with the site evaluation to determine the space, access and risk mitigation needs of the Halifax County PSAP. During this critical planning phase Halifax County will continue negotiating participation governance with adjacent counties for use of and access to the regional backup component of the new facility. Once a site is selected, formal programming is completed and regional participation documented and formalized, along with required permitting and other planning activities, design will be finalized for the facility and technology. Plans for transitioning operations will also be finalized and will include specific focus on continuity of operations. Construction then begins on the combined new PSAP facility and regional backup center. The Construction Schedule, shown below, depicts the sequence and durations of the proposed project phasing.

The radio system upgrades will occur concurrently with the facility transitions. The build-out requires complete connectivity to the primary and backup sites, so that build-out can occur without interruption to service and will allow access and control of the system from both PSAPs regardless of primary PSAP location at time of cutover.

All other equipment and systems upgrades or replacement schedules will be coordinated with the facilities transitions to ensure cutover or service transition occurs when operations are completely operational at the current (future internal County backup) or relocated primary PSAP. This will be dependent upon the vendor installation or upgrade schedules aligning with the overall master schedule. All contingencies and dependencies will be monitored and controlled by professional project management and the County project team.

There are many interwoven components in this complex project. Some must be completed serially, while others can take place in parallel. Taking component activities at a high-level, the steps involved are as follows:

- Complete engineering of radio system and facility design
- Finalize and acquire new radio sites if needed
- Implement equipment additions needed at existing radio sites
- Construct PSAP facility
- Implement parallel 9-1-1 routing and customer premise equipment (CPE) at PSAP facility
- Install radio equipment at new PSAP
- Implement CAD equipment at new PSAP
- Test and validate all equipment implemented for infrastructure
- Move dispatching operations commence operations
- Test and validate all equipment implemented for infrastructure
- Test all connectivity
- Transition primary dispatching operations

The facility design and construction phases, tasks and activities are critical to the success of the Halifax County PSAP relocation and backup plan. The following details the five key steps to this process:

#### **Step 1 - Planning/Schematic Design**

A collaborative design process starts with a full day of interactive work – called a Design Charrette.



This initial design activity requires the input of stakeholders so that all ideas, concerns and challenges can be addressed and, where significant, incorporated. At the day's conclusion the County is provided with a three-dimensional spatial diagram of both the site and building. This process builds consensus, excitement and momentum that pay dividends to the project throughout.

Collaboration is required during each phase of the design process to seek information on processes and protocol that will shape the space uses. A two-way interchange with the County's Building Team will become a regular and reoccurring part of the effort.

Once the program is confirmed, the architect and project team will develop several plan iterations. The team will then validate and revise if needed the initial estimates of probable construction costs and revisit the schedule for design and construction as needed.

## **Step 2 - Design Development**

Detailed drawings are then prepared to illustrate the proposed design. The site plans will show the building, all proposed utilities, site features, and all areas of pavement. The floor plans will show all the room arrangements in the correct size and shape. Exterior elevations will show the materials of the walls, roof, and openings. Outline specifications will be prepared listing the major materials and systems. More detailed Structural, Mechanical, and Electrical systems drawings will be created to describe those systems.

Based on these drawings, a more detailed estimate of probable costs are developed. The Building Team will review every element to make sure it is understood and to identify where adjustments to the drawings are needed to conform to the revised project estimate.

## **Step 3 - Construction Documents**

Detailed drawings and specifications are finalized from which contractors will bid and, in turn, build the project. These drawings and specifications become the essential part of the construction contract, and will also be utilized for all agency approval submissions. When construction documents are complete, the County will be ready to bid the documents and award the general contract.

Construction documents include: plans, sections, details, annotations, dimensions, and schedules. Each discipline will prepare several sheets to describe their systems. The architect, consultant and County contact will meet throughout the Construction Documents phase with the Building Team to keep the group abreast of the progress of the documents, seek input, and confirm the final decisions. A final estimate of construction costs will be provided.

## **Step 4 - Bidding / Negotiation**

The project team will assist the County in preparation of the bidding documents. The bidding documents will be made available to qualified contractors and subcontractors, who within a given period of time, reply with their bids. The Project Team will answer questions during bidding, issue addenda, and assist in contract negotiations.

## **Step 5 - Construction**

During the construction period, the Project Team will provide observations of construction, coordination of construction issues, shop drawing review, payment requisition reviews, and other typical construction phase services.

Site Design/Permit Schedule: <sup>1</sup>

#	Task	% Complete	Duration (wks)	Date
1	Start Date			9/6/2016
2	Design Phase (Schematic)	20%	5	10/11/2016
3	Owner Review/Accept <sup>2</sup>		1	10/18/2016
4	Design Phase (Design Development)	50%	5	11/15/2016
5	Owner Review/Accept <sup>2</sup>		1	11/22/2016
6	Begin Site Approvals		-	11/24/2016
7	Design Phase (Construction Documents)	100%	8	1/10/2017
8	Owner Review/Accept		1	1/17/2017
9	Bidding (Site/Building)		4	2/14/2017
10	Owner Review/Award/Contract <sup>2</sup>		1	2/21/2017
11	Receive Site/Building Permit		12	2/22/2017
12	Construction - start	0%	3	3/15/2017
13	Phase 1 Completion - ready for T&T	67%	40	12/20/2017
14	<b>Construction - complete <sup>3</sup></b>	100%	<b>60</b>	<b>5/9/2018</b>
15	Cutover/Training		12	8/1/2018
16	Operation		4	8/29/2018

Notes:

1 - Not adjusted for holidays

2 - Concurrent reviews

3 - Construction duration 420 days (+/- 14 months)

**7. Please identify the interface or compatibility between existing equipment and/or software and that which you intend to purchase.**

The County does not expect any interface or compatibility issues between any of its existing hardware/software and any new systems or applications that will need to be procured for the replacement center. Part of the procurement process for the County, for all new systems, will be to complete a thorough needs assessment for each and every technology. This assessment will look at the existing environment, identify the functionality needed by the stakeholders and functionality needed by the new center and determine how new technology can be integrated and interfaced with the equipment that is in place now.

Since the County is already satisfied with a number of current vendors that are already providing the current solutions, it is anticipated that a number of systems will simply need to be expanded, upgraded, or both. These critical systems include, but are not limited to, CAD, 9-1-1 answering equipment, radio dispatch consoles and logging recorder.

This project would replace outdated technology and equipment and provide an opportunity for the

County to provide enhanced functionality and capabilities to both the PSAP and the local emergency response agencies that was not available in the old system.

It is expected that the following systems will be interfaced or integrated:

9-1-1 Answering Equipment – The current eight position stand-alone VESTA system will be added to and reconfigured to a VESTA geo-diverse and redundant solution.

CAD System – The current software vendor will be used, software licenses will be migrated and the system will be expanded to include the required new positions. In addition, a new virtual server environment with multiple nodes using a Neverfail application will be added to provide a geo-diverse and redundant CAD solution.

Logging Recorder – A new forty channel recorder will be added and interfaced with the existing twenty-four channel recorder. The two recorders will be integrated allowing remote client applications to search and review recordings from a single location. Each recorder will have a Backup Manager and Remote Monitoring system running in the background that reports back to a centralized client/server.

## Statement of Need

***Required for all grant types, this statement should reference the relationship of the grant project to NCGS §143b-1407(b) and the current funding priorities established by the Grant Policy and Procedures and include evidence of any financial need.***

### **8. Please indicate how your PSAP or group of PSAPs meets the statutory criterion of serving a rural or high cost area.**

Halifax County is one of North Carolina's 80 rural counties as defined by the North Carolina Rural Economic Development Center. Rural counties are defined as having a population density of no more than 250 people per square mile. This definition of rural has been incorporated in legislation adopted by the N.C. General Assembly. Halifax County has a population density of only 76 people per square mile.

Additionally, Halifax County is one of the most economically distressed counties in North Carolina and is ranked as one of the 40 Tier 1 Counties in North Carolina by the North Carolina Department of Commerce. The North Carolina Department of Commerce annually ranks the state's 100 counties based on economic well-being and assigns each a Tier designation. The 40 most distressed counties are designated as Tier 1, the next 40 as Tier 2 and the 20 least distressed as Tier 3. This designation supports the rural designation. Not only is the county rural by population density, but it is economically distressed and does not have the resources necessary to fund an adequate back-up scenario and certainly doesn't have the funds necessary to replace the current PSAP in order to continue to provide robust and efficient emergency communications.

Halifax County's continued dependency on agriculture and low population density statistics from the Census supports the designation of a rural county as set forth by the North Carolina Rural Economic Development Center. Halifax County is predominantly rural with agriculture being the predominant industry. There are 731 square miles in Halifax County and only 76 people per square mile. There are only 965 employer business establishments in Halifax County. Halifax County's population is 52,456 with 26% of those people living below the poverty level, based on Census data. The population decreased by 4.1% since 2010. The median household income for Halifax County is \$30,861 and employment levels dropped from 2000 to 2014.

### **9. Please identify funding priorities, their impact on operational services, and consequences of not receiving funding.**

There are several pressing needs that makes the replacement of Halifax County's PSAP a priority. Halifax County E911 was established in December 1996 with the consolidation of seven municipal police departments, and countywide Fire (12 depts.) and EMS (7 depts.). The center was built utilizing the county's former clerk of courts records vault. Within this existing space of 720 square feet, the communications room has no windows and only one entrance/exit door. There are no other alternative means to evacuate should the entrance/exit door become blocked.

Since its consolidation, Halifax County citizens have come to rely on the services available and provided. In the initial set up the 911 center was outfitted with five workstations, serving as both call-taking and dispatching positions. The center initially started with three full-time personnel per

shift. With the increase in call volume and services, the county increased its full-time positions to four, adding an additional full-time floater to cover peak hours of operations. At the time of consolidation the smaller police departments shared a repeater frequency. An increase in call volume and the related limitations of the shared radio frequency caused the departments to obtain their own separate repeaters for operations, expanding the amount of radio communications for the PSAP to monitor.

In the spring of 2008 the County completed a renovation of the current PSAP and an upgrade to the technical systems and equipment in preparation for the deployment of Phase II wireless. The space renovation was prompted by a full PSAP assessment conducted in 2007 that found a critical space expansion need based on the volume of work existing and projected for the County's emergency communications needs. Financial constraints prevented the County from acquiring or constructing an appropriately sized facility in 2008 to meet the current and future needs. The 2008 renovation of the current space allowed the addition of one position though the projected need was for a minimum of four additional positions. The current PSAP is located in the basement of the historic county courthouse which cannot be expanded or renovated further. Service needs increased since the 2008 renovation and prompted the hiring of four additional full-time personnel in 2014-2015. With limited workstation space and capability to support these positions, the communication director's office was emptied to add two additional workstations. These workstations are currently being used for overflow of call volume, administrative quality and assurance as well as training of new personnel.

In its current location, the 911 center does not have adequate space for administration, nor for personnel during inclement weather. There are no sleeping quarters, no lounge area, no kitchen, no multi-showers or lockers to accommodate all personnel, nor any room for further expansion. During inclement weather, personnel are required to bring their own supplies for sleeping in the hallways of the Historic Courthouse, share two bathrooms and one shower.

The second priority of the grant project is to outfit the current PSAP to serve as the Halifax backup facility. Halifax County and many surrounding Counties have been unable to establish an effective backup plan in compliance with Rule 09 NCAC 06C.0280(a)(4) because they do not have the means to implement the plans they consider. The project would replace Halifax County's primary PSAP and make space in the new facility available for adjacent counties to use it for backup operations. Halifax County's current PSAP would serve as backup for Halifax County. Adjacent counties who are interested in participating in a backup scenario using the new facility proposed for this Project are all also unable to comply with the backup plan deadline due to lack of means.

None of the priorities discussed above can be met with current 911 funding levels or other funding. Halifax County receives \$317,592.75 in support of their PSAP. This annual distribution must be expended on the legislated eligible costs. These funds cannot be used to improve critical communication infrastructure (radio systems) or to address space needs. The Halifax County budget does contain funds to maintain their current facility and systems using 911 funds and general funds; however, it does not have the financial capacity to invest in replacing its current PSAP or for funding an adequate backup facility.

#### Consequences of not receiving funding

The current PSAP configuration is maxed out and there is no space to meet any future needs for increased emergency communications service calls without this grant project. With the increase in demand for outfitting 911 centers with the latest in technology to assist telecommunicators in performing their job functions, as well as provide adequate backup support, Halifax County E-911 is

unable to grow or provide that support to its neighboring counties. Limited space to work in the existing location, no room for expansion and poor working conditions and environment are all concerns. Without the grant Halifax County will be unable to secure the means for a backup plan for the County. Halifax County is not alone in its efforts to comply with regulations for a backup operation. This grant will allow the opportunity not only to improve its current operations, but provide adequate spacing for supporting the surrounding counties that are limited in resources and financial revenues for compliancy with Rule 09 NCAC 06C.0280(a)(4).

Halifax County has a growing tourism industry combined with a major thoroughfare that causes increased service needs that can no longer be supported by the current PSAP configuration. The County is bisected by Interstate 95 (I-95) a major corridor running the entire length of the east coast from Maine to Florida. In the northern portion of the County is a regional airport and a regional entertainment venue, Carolina Crossroads. This venue attracts large numbers of visitors from neighboring counties in North Carolina and Virginia. In addition, Halifax County has many other tourist locations that contribute to an influx of visitors, such as Medoc Mountain State Park, Historic Halifax, Clary's Motor Speedway, Lake Gaston and the Roanoke River. The tourists that visit these destinations and the drivers on the highway rely on Halifax County's emergency communications and expect efficient and effective service. Halifax County cannot provide the best service possible in the current PSAP environment. The PSAP staffs two additional call takers during events at Carolina Crossroads due to increased call volumes during events.

**10. Please provide a copy of your PSAP's long-term or strategic technology plan and identify how the project fits within it.**

The PSAP keeps all systems under support and maintenance and tries to have a three year hardware replacement cycle as suggested by the 9-1-1 Board. However, this three year cycle is not always feasible because of budget constraints so the actual replacement typically occurs somewhere between five and seven years. The goal of the PSAP is to use three years as a baseline for workstation replacements, five years for servers and seven years for network equipment. Under the current technology plan the following systems/equipment are in need of replacement: • 9-1-1 Answering Equipment (in procurement process now) • Radio Dispatch Consoles • System Furniture • CAD Workstations/CAD software update

System	Plan	Notes
CAD System	Replace; Add New	The CAD workstations were replaced around June, 2010 so they are in need of replacement; Servers were replaced in October, 2015; Software was last updated in March, 2015.
Logging Recorder	Reuse Existing; Add New	Reuse existing at back-up center; install new recorder at replacement center.
Master Clock	Add New	New master clock solution needed at replacement center.
Radio Consoles	Replace; Add New	Existing were installed in 2007 and need to be replaced.
System Furniture	Replace; Add New	Original furniture was installed in 2007 and needs to be replaced.
Telephony (E-911)	Reuse Existing; Add New	New stand-alone system will be installed in 2016; re-use and reconfigure stand-alone system to geo-diverse and redundant system.

**11. Please identify the likelihood of completing the project utilizing your 911 fund balance and the percentage of grant funding being requested in relation to total project costs.**

Halifax County cannot replace its PSAP without a Grant award or implement an effective backup

plan. There are no other sources of revenue available. Please reference the Halifax County proposed budget in Attachment 1 to view the complete assignment of current funds. The financially distressed status of the county further illustrates the great difficulty it would take to fund such a project.

The current and anticipated 911 fund balance will continue to be applied to eligible costs, but are insufficient and ineligible to cover PSAP replacement and related improvements to the radio system or facility construction/renovation. Halifax County has a 911 fund balance of \$670,012.99. \$255,971.00 of that fund balance is becoming encumbered to upgrade the 911 telephone system that would be reconfigured and used toward the goals of this project.

The current and anticipated revenue from 911 funds and general funds for the County is not sufficient to support the grant request without a significant and unrealistic tax increase or bond issuance. Funding for additional expenditures would require additional revenue acquisition. Due to the current economic state of the County, this level of revenue acquisition is not fiscally, nor politically possible.

The only potential funding that could be accessible to the County would be Federal grant funding from the Department of Homeland Security for communications related funds. The funds available through these federal grant programs are limited and unlikely in the face of the current economic climate.

The County is requesting the full cost of the project since all other funding is tied up in the continued operation of emergency communications in the County. If the County were to receive a grant award for an amount less than the full request, a phased implementation approach would be used to maximize the use of the grant funds and accomplish smaller objectives toward the goal of a replacement PSAP and adequate backup facility.

## ***Regional Initiative Enhancement/Replacement Project***

***Required for all Regional Initiative Enhancement/Replacement project types. Regional initiative enhancement/replacement projects are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such projects may involve two or more primary PSAPs.***

**12. What is the relationship of participating PSAPs to the initiative? Provide MOUs between PSAPs identifying each participant PSAP's responsibilities to the project.**

Click or tap here to enter text.

**13. Identify intended collaborative efforts between participating PSAPs.**

Click or tap here to enter text.

**14. Identify how resource sharing will take place.**

Click or tap here to enter text.

**15. Indicate how the initiative impacts the operational or strategic plans of the participating agencies.**

Click or tap here to enter text.



**NOTE:** The following section on “Consolidation Project Plan” is **ONLY** required if your type of grant is a “Consolidation”. If your project **IS NOT** a Consolidation, proceed to question # 23 to complete the grant application.

**16. Indicate how a consolidation would take place and improve service**

Click or tap here to enter text.

**17. Indicate how the consolidated PSAP should be organized and staffed**

Click or tap here to enter text.

**18. Indicate what services the consolidated PSAP should perform**

Click or tap here to enter text.

**19. Indicate how consolidated PSAP policies should be made and changed**

Click or tap here to enter text.

**20. Indicate how the consolidated PSAP should be funded exclusive of grant funding**

Click or tap here to enter text.

**21. Indicate what changes or improvements should be made to inter-communications among the local governments participating in the consolidation in order to better support operations.**

Click or tap here to enter text.

**22. Discuss sustainability of the consolidation project during the proposed term of the project, and for the foreseeable future.**

Click or tap here to enter text.



## FINANCIAL DATA

**23. Current 911 Fund Balance**

\$670,012.99

**24. Amount Requested**

\$8,934,834

**25. Total Project Cost**

\$8,934,834

## Budget and Budget Narrative

***A budget and budget narrative must be supplied for all types of projects, as well as a copy of the applicant agency's approved FY 2016 PSAP budget.***

### **26. List planned expenditures**

Description	Qty	Units	Unit Cost	Sub Total	Total
<b>Construction</b>					
Building	10722	sf	\$350	\$3,752,700	
Site	2.0	ac	\$250,000	\$500,000	
FF&E (not consoles)	10722	ea	\$10	\$107,220	
subtotal					\$4,359,920
<b>Communications</b>					
Access Control/Security/Camera	1	ea	\$75,000	\$75,000	
Audio Visual Systems	1	ea	\$125,000	\$125,000	
Cabling Infrastructure	1	ea	\$100,000	\$100,000	
CAD System	12	ea	\$12,000	\$144,000	
IT Equipment	1	ea	\$250,000	\$250,000	
Logging Recorder	1	ea	\$40,000	\$40,000	
Radio Consoles	18	ea	\$65,000	\$1,170,000	
Radio System Connectivity	1	ea	\$50,000	\$50,000	
Site Connectivity	1	ea	\$150,000	\$150,000	
System Furniture (consoles)	18	ea	\$20,000	\$360,000	
Telephony (Admin)	1	ea	\$30,000	\$30,000	
Telephony (E-911)	10	ea	\$50,000	\$500,000	
Tower	1	ea	\$125,000	\$125,000	
subtotal					\$3,119,000
<b>Soft Costs</b>					
A/E Design Fees	9%	%	\$4,359,920	\$392,393	
Tech & Telecomm Fees	6%	%	\$3,119,000	\$200,000	
Permitting (1/2%)	0.5%	ea	\$4,252,700	\$21,264	
Geotech/Survey	1	ea	\$10,000	\$10,000	
Utility Connections	1	ea	\$20,000	\$20,000	
subtotal					\$643,656
total					\$8,122,576
Contingency	10%				\$812,258
total					\$8,934,834

**27. Provide a budget narrative that briefly explains the reason for each requested budget item.**

Construction line items:

**Building:** This includes all costs associated with building construction including: foundations, structural systems, vertical enclosure, openings, roof. Interior items include partition, glazing, door/frames, finishes on floors, walls, and ceilings, plumbing and light fixtures. Systems serving the spaces include: heating, air and ventilation, power, data, and plumbing. Emergency condition systems include: generator, UPS, fire suppression, lightning protection, emergency lighting and power. Special features may include enhanced design to mitigate local hazards (wind, seismic, etc.) or for occupant safety (blast or bullet resistance, etc.). Building design requirements are covered by NFPA 121 and NC State Building Code 2012.

**NFPA 1221**

- Communications center must be separated from other portions of the building (not used for communications) by 2 hour fire barriers.
- HVAC systems shall be independent systems that serve only the communications center. Backup HVAC systems shall be provided. HVAC systems shall be designed so that the communications center is capable of uninterrupted operation with the largest single HVAC unit or component out of service.
- The communications center and spaces adjoining the communications center shall be provided with an automatic fire detection, alarm, and notification system.
- Windows (if provided) shall be rated for bullet resistance or shall not be publically visible.
- Means shall be provided to prevent unauthorized vehicles from approaching the building housing the communications center to a distance of no less than 82 ft (25 m).
- Two independent and reliable power sources (including from a generator) are required.
- Communications centers shall have lightning protection.
- Communications centers that provide emergency dispatching protocols shall have at least two telecommunicators on duty at all times.

**NC State Building Code**

- Business: Group B.
- Type 2B (noncombustible) construction.
- Separation from existing building of 10 feet or greater.
- Accessibility to handicapped required.
- Energy efficiency per Chapter 5 of Energy Conservation Code.
- Structural loads: soil, snow, wind, rain, flood, seismic, structural members.
- Deemed "Essential Facility" and assigned Category 4 Importance Factors, Exposure Category B.

**Site:** This includes all costs associated with preparing the site to accept the public safety communications building. The work includes clearing vegetation, soil stripping, excavation, foundation prep, installation of utilities (power, data, water, sewer, gas, etc.), grading, drainage, backfill, topsoil and landscaping. Site structures may include access roads, parking lots, walkways and accessibility features, curb and gutter, security fencing or other ant-terrorism measures, site lighting, stormwater drainage management and outfall. Special systems may include construction of external communication systems infrastructure such as tower foundations and underground conduit, and provision for site specific items such as sewage lift stations, potable water or

secondary power.

**FF&E:** The abbreviation means “Furniture, Fixtures and Equipment” and includes all movable furniture, fixtures, or other equipment that have no permanent connection to the structure of a building or utilities, except for the telecommunicator consoles. FF&E includes: desks, chairs, shelving, other seating, file storage and appliances. Also included are decorative items such as: artwork or indoor plants. While FF&E usually includes all personal computers, monitors, printers and other electronics, for an emergency communications center, these costs are generally carried in the technology budget. FF&E does not include fixed items such as whiteboards, countertops or cabinets.

### **Communications Technology line items:**

The following list of equipment and cost estimates were all provided by L.R. Kimball based on the following:

The County is in need of a new replacement primary PSAP. The new primary PSAP will be configured with eight system furniture positions in the emergency communications center (ECC) and four additional system furniture positions installed in an adjacent room that is planned to be used by other PSAPs for backup operations and has the potential to serve future regional training initiatives. The new PSAP will have sufficient space in the equipment room and the required support areas to allow adjacent PSAPs to conduct their backup operations here. These four positions will also be used and routinely tested by the County for training purposes and overflow operations during high periods of incoming call volume, significant events or severe weather.

The existing Halifax County 9-1-1 center will become the back-up center. Although the current center location can be used by the County for a backup center it does not include the necessary equipment room or support space that would allow any adjacent PSAPs to utilize it for their back-up operations.

**Access Control/Security/Camera:** These systems will provide the security needed for a public safety communications facility. Security door card readers, door intercom, motion sensors, electronic door switches, CCTV, network video recorder, cameras (8) and two video/intercom workstations allowing remote access control from within the building. Camera Monitoring System – 8 HD camera systems with motion recording and event/time search features.

**Audio Visual Systems:** Turnkey audio visual package that includes HD video and audio distribution, touchscreen control panels, wall mounted displays, cable/OTA tuners, matrix switchers, transmitters, amplifiers, receivers, video wall processor, in ceiling speakers, hand-held control application for various locations in the new building including the ECC, training rooms, conference rooms and support/management administrative offices.

**Cabling Infrastructure:** Provides for CAT6 wiring throughout building, CATV, data management racks, wire managers, under floor cable trays, overhead raceways/ladders, patch panels, patch cables and fiber connections to the various critical system voice and data networks.

**Computer Aided Dispatch (CAD):** The County is currently using a TriTech VisionCAD solution for computer aided dispatch. The County is very much satisfied with the vendor, software application and functionality it provides and has no plans to replace the system. The cost is to upgrade the software, add CAD and mapping client licenses for the additional positions and management/support locations and to migrate to the new network configuration. . This cost also

includes any required upgrades and additional software licenses for the GIS mapping element of the CAD system.

**IT Equipment:** New server and workstation hardware will be needed for the CAD system. The configuration will utilize a virtual server environment using multiple nodes. The network architecture will provide a high availability solution that includes geographical hardware diversity, connectivity and real-time data replication. Sufficient network connectivity will be required between the primary and secondary site which will be the back-up center. The system will be designed to take advantage of existing current fail-over and other back up technologies that enable continued operation notwithstanding single or multiple component failure. The upgraded hardware will be sized appropriately to meet performance criteria, accommodate any future workload increases and store sufficient event/unit history. The microwave system will be used to provide real-time connectivity between the primary and secondary servers and the tertiary server at the back-up center.

**Logging Recorder:** The existing center currently uses a twenty-four channel Revco recording solution. A new forty channel recorder will be needed for the new primary center. The two recorders will be integrated allowing remote client applications to search and review recordings from a single location. **Each recorder will have a Backup Manager and Remote Monitoring system running in the background that reports back to a centralized client/server.**

**Master Clock:** A new master clock solution will be needed at the primary center. The clock will be used to provide a uniform and consistent time for all the different integrated technologies required such as, but not limited to, the CAD system, 9-1-1 answering positions, logging recorder and radio dispatch consoles.

**Radio Consoles:** The existing center is currently using MCC5500 radio consoles that were initially installed in 2007 and need to be replaced. New radio consoles will need to be installed at both the primary and the back-up centers.

**Radio System Connectivity:** The new primary center will need new radio control stations, cabling and antennas that will allow the PSAP to communicate with the various VHF base stations used by the County. These control stations are used to radio dispatch field units on dispatch and operational channels.

**Site Connectivity:** Microwave 4.9 Ghz point to point connectivity between the primary and the back-up center for geo-diverse technology solutions used by, but not limited to, 9-1-1 host sites, CAD tertiary node and the logging recorder. This connectivity is required to provide real time geo-diverse back-up for some of the critical systems.

**System Furniture Consoles:** The current center is using Xybix sit-to-stand furniture that was originally installed in 2007 and needs to be replaced. New sit-to-stand technical dispatch system furniture that is ergonomically friendly will be needed in both the primary and the back-up centers. Intensive use chairs are also included.

**Telephony (Admin):** A VoIP administrative phone system that will be required at the primary center for management, administrative and support offices and locations outside the ECC. The system will include auto attendant, intercom, voicemail, call forwarding, 3-way conferencing, and other typical phone system functionality.

**Telephony (9-1-1 Answering Positions):** The County is currently using a RescueStar 911 system

that reached 'end of life' in January, 2016. This system is being replaced by an eight position Airbus DS VESTA 911 stand-alone system. The purchase of the new system should occur within the next few weeks.

The plan for the new center would be to reuse the eight position system being procured now. The new system will be reconfigured from a stand-alone system to a VESTA geo-diverse and redundant solution. New answering positions and back room equipment will need to be added. The new system will be operational in both the primary and the back-up centers. Side A will be installed at the primary center and Side B will be installed at the back-up center. The microwave system will be used to provide real-time connectivity between the two sides.

**Tower:** 100' self-supporting tower used to install control station and back-up radio antennas and microwave system between the primary and the back-up center.

#### **Soft Costs Line items:**

There are other cost, often overlooked, that should be considered and include when applicable.

**A/E Design Fees:** The Architect and Engineering team will provide the design, construction documents and construction phase services for the building and site work. The team usually includes the following disciplines: architecture, civil engineering, structural engineering, and mechanical/electrical/plumbing engineering. It may also include cost estimating, landscape architecture, interior design and fire protection engineering. For complex projects special consultants may be required for acoustics, security, thermal envelope, or scheduling. These fees are often expressed as a percentage of the site and building construction costs.

**Tech & Telecomm Fees:** The services of the public safety communications consultant are included here. This consultant will manage all aspects of technology and telecommunications from needs analysis to systems selection, procurement, implementation, operator training, startup and system cut-over. These fees are generally a function of total project duration.

**Permitting (1/2%):** The costs charged by site/building permitting agencies to issue permits for construction vary widely between jurisdictions. Most are based on the project's site and building construction value but may also include fees for review. Certain jurisdiction may waive fees for public institutions.

**Geotech/Survey:** Prior to the design of the emergency communications center's foundation, paved areas and storm water management basins a geotechnical engineer should be engaged to perform subsurface investigations. Such investigations are carried using digging and drilling methods and yield important information about the soil's ability to bear weight and drain properly. In certain locations, drilling is performed to yield seismic data. Likewise, a survey of the property is vital to the design work of the civil engineer with regards to boundary, easements, restrictions, existing structures, topography and vegetation. Both of these services are typical contracted by the land owner. Fees generally rise with acreage. A cost allowance is recommended.

**Utility Connections:** Jurisdictions and utility providers handle the extension and connection of utilities differently. Power providers will generally extend primary service to a site located transformer. Natural gas and data providers will often extend service to the building face. Water and sewer is often brought to within 5 or 10 feet of the building. Fees may be charged to connect to a municipal water and sewer system, for example, but standards do not exist. A cost allowance is recommended.

Basis for construction cost determinations:

The sum of the data gathering and analysis phase has yielded an Initial Space Program, dated 5/31/2016, an estimate of probable construction costs prepared by Becker Morgan Group.

#### Initial Space Program

Allocations for each space were determined by a number of methods including: industry standards for office and meeting activities; our experience in design of public safety and other public buildings; code prescriptions for occupied areas and staff counts derived from Kimball regarding telecommunicator positions. We used staffing numbers to produce requirements for support spaces such as break and toilet rooms and rule-of-thumb loads to determine the mechanical, electrical and data room sizes. Where logical, we develop shared spaces including training, meeting, storage and circulation.

The facility shall be composed of two separate functions. The Emergency Communications Center (ECC) will house the 9-1-1 call taking and dispatching operations and the associated support spaces. Those spaces include data, mechanical, electrical, toilets, break area, storage and administrative offices. The second function is the Regional Training Center (RTC) and training area. The RTC will provide a backup 9-1-1 location to adjacent counties with 4 fully equipped consoles and can serve as a training space to support the ECC. Further, the RTC can be used as a large meeting place for agencies during an emergency. The RTC will include the backup/training space as well technology support spaces, offices, toilets, bunks, and storage. There are space savings in locating both the ECC and RTC functions in a single building, as the RTC will rely on much of the same technology that powers the ECC.

The applicable codes and standards require physical separation and security of the ECC. Proper space utilization necessitates clustering of ECC operations and ECC support spaces while allowing access and circulation for the adjacent RTC spaces. These same codes and standards require a building structure that is more robust than a typical public building (deemed “Essential Facility”). Walls, windows and the roof must withstand exceptional stresses from both natural and human-caused events – from high winds to terrorist threats. These requirements impact orientation within the building of critical systems and operations as well as configuration of the building volume, with respect to site position, access and possible expansion.

The space needs analysis (following page) indicates that approximately 10,722 square feet of space is needed. This includes about 8248 square feet of program space (net floor area) and 2474 square feet for structure, exterior and interior walls and non-programmed space such as corridors. The amount of non-programmed space is equal to 30% of the gross square footage and is typical for buildings of this type and size during the early planning period.



Space Titles	Staff #	Unit SF	Qty	Total SF	Req'd	Comments
<b>Emergency Communications Center</b>				<b>4,136</b>		
<b>Public Entry</b>						
Waiting/Lobby		150	1	150	x	
<b>Administration</b>						
911 Director	1	192	1	192	x	inside comm ctr
+ workstations		100	2	200	x	inside 911 Dir
911 Asst Director	1	168	1	168	x	future
CAD/GIS	1	144	1	144	x	future
Training	1	144	1	144	x	future
IT	1	120	1	120	x	future
Shift Supervisors (2)	2	200	1	200		
Office Supply Storage		80	1	80	x	
Work Area - copy/fax/print		120	1	120	x	
<b>Operation</b>						
911 Telecomm	8	250	8	2000	x	7 TC + 1 super
Report/Office		120	1	120		
Quiet/Isolation		100	1	100	x	
Lockers (private)		144	1	144	x	assume 24 lockers half height
Toilets (M/F private)		60	2	120	x	
<b>Other</b>						
Kitchen/Break		240	1	240	x	
Vending		50	0	0	x	included above
Cleaning & maintenance storage		64	1	64	x	same as jan
Janitors closet		64	1	64		
Day Care		200	1	200		
Exercise		150	1	150	x	
<b>Regional Training Center</b>				<b>3,102</b>		
<b>Administration</b>						
EM Coordinator	1	150	1	150	x	
EMS Director	1	150	1	150	x	
<b>Training/Backup 911</b>						
Meeting - Large		750	1	750	x	20 - 25 p
Regional Training/Backup 911	4	200	4	800	x	4 positions
Conference		192	1	192	x	
Supplies		120	1	120		
Training tables/chairs		200	1	200	x	
AV equipment		100	1	100	x	
ARES		80	1	80		amateur radio
<b>Toilets</b>						
Toilets (M/F)		120	2	240	x	
Showers (M/F)		60	2	120	x	
<b>Other</b>						
Bunk - Female		200	1	200	x	4p ea
Bunk - Male		200	1	200	x	4p ea
<b>Building Systems</b>				<b>1,010</b>		
CPE Telephone		60	1	60	x	
911 Data		20	12	240	x	
County Data		20	4	80		
911 Radio		20	2	40	x	
911 Telephone		20	2	40	x	
Electrical		240	1	240	x	
UPS		120	1	120	x	
Generator		200	1	200		exterior
Mechanical		240	1	240	x	maybe be eliminated with VRF
Riser/sprinkler room		30	1	30	x	
<b>Net Area Required</b>					<b>8248</b>	
Grossing Factor					30%	initial allowance may be reduced
GF Area					2474	includes hallways, wall thickness, structure etc.
<b>Gross Area Projected</b>					<b>10722</b>	
Personnel Total (on duty)	21					

**28. State how you will follow applicable procurement law, rules, and policies.**

Products and services for the grant project will be procured by Halifax County following NC Purchase and Contract Administrative Code (Title 1 Department of Administration Chapter 5 – Purchase and Contract) in all phases of procurement including solicitation, selection, competitive processes and contracting. Halifax County will serve as the governing body administering any and all funding related to this project. The responsibility of ensuring that all applicable procurement laws, rules, and policies are followed will be the duty of the Halifax County Finance Director. We will follow existing county procurement policies in accordance with G.S. 143-129 which establishes the procedure of formal bidding and G.S. 143-131 which establishes the procedure for the informal bidding process. All documentation of project expenses, payments, etc. will be in accordance with the General Accepted Accounting Principles. The project will also comply with any additional requirements set forth in the project contract with the NC 9-1-1 Board and the State of North Carolina.

**29. If the project will have ongoing expenses, such as monthly recurring charges, describe plans and specific sources for future/long-term funding and demonstrate how the project will be sustained in the future without additional 911 Grant Program funding.**

Once the replacement PSAP becomes operational, Halifax County, as the administrative governing body of the 9-1-1 system, will continue to budget and administer the funding provided by the 9-1-1 Board for any PSAP eligible expenses the same as those funds have been applied to in the past. As new technology systems are being procured the County will solicit costs from the vendors to provide annual support and maintenance for their respective systems. These costs will be negotiated with the vendor to be paid on an annual basis and the cost for that support will become part of the center's overall operational budget managed by the County.

## Evaluation

***All applications must include evaluation information. The final report shall include an evaluation demonstrating that the equipment or services funded by the grant have been purchased, installed/implemented, and are performing as expected.***

**30. Explain how your evaluation will measure the achievement of the goals and objectives identified in the Project Description with a timeline for meeting short, intermediate, and long term goals.**

A project plan and charter will be developed based on a grant award. That, along with executed Memorandums of Understanding will define the goals, scope and timeline of the overall project. The key stakeholders will accept the project plan and charter via signature. Progress reports at pre-determined intervals will be based on measured progress of the project compared to the project plan. The measurement will be made by determining if the tasks, activities and pre-determined milestones were successfully completed within the projected timelines. County staff will work with professional project management and all vendors to communicate and document expectations of the scope of work, budget and timelines as contracted. A critical path schedule will be identified upon the initiation of individual schedules and will be monitored for alignment and impact on the master schedule. Identifiable stakeholders, dependencies, deliverables, milestones and risks will be documented and shared with all stakeholders at the start of the project. All changes and additions to the documented plans and schedules will require approval by all stakeholders throughout the life of the project from planning, initiation, execution, monitoring and control, through completion and post-cutover acceptance activities. A single project manager will be utilized to coordinate all communications, activities and deliverables. Weekly project team and stakeholder communication will occur in the form of conference calls or face to face meetings as appropriate; these meetings will be documented, shared and maintained in a central project file. All required grant program reporting will be conducted by the project manager with direct oversight and approval of the counties' designated project officers. The Halifax County E-911 Communications Manager will be the point of contact with the NC911 Board for reporting progress and other communication.

**31. Describe how evaluations will be conducted, including performance parameters which must be met in order to meet acceptance criteria.**

A project committee will be comprised the Halifax County E-911 Director, a representative of each of the counties participating in the back-up Memorandums of Understanding and a Project Manager. Additional committee participation will be added as appropriate dependent upon the individual project tasks. This project committee will work with the counties' staff, vendors and professional consultant support to evaluate each milestone activity for completion to the satisfaction of the contracted scope of work. Contracted training, testing and acceptance plans for each project component (e.g. facility, technology) will be overseen by the project committee, and results will be documented. Any milestone or cutover will not be accepted until the contracted results are proven within the designated period. Contractors will not receive final percentage payment until after a specified (contracted) result is proven, documented and officially accepted by the project committee.

During the life of the project, weekly status calls and meetings (as appropriate) will be facilitated by the project manager and attended by the committee members. Minutes from these meetings and other relevant documentation will be shared with stakeholders on a weekly or bi-weekly schedule based on their individual participation, level of authority or need to know as determined during the stakeholder identification process. The project committee will continue to identify stakeholders, risks and ways to mitigate risks throughout the duration of the project and will report updates to the NC911 Board.

Reporting to the NC911 Board will be the responsibility of Halifax County and each of the counties participating in the back-up Memorandums of Understanding, with the support of the project committee. Monthly reports will be provided to the NC911 Board that will include the current status of all funded activities, as well as documentation of all completed milestones, any project timeline changes, and all expenditures from the awarded funding along with expenditures from the 911 surcharge funds. All reporting will be commensurate with any requirements set forth by the awarding entity, the NC911 Board. Interim reports will be produced as requested or if a risk is identified that will impact scope, schedule or budget.

### **32. Identify how data will be collected and presented**

The data will be collected electronically and manually and will include, but not be limited to, meeting minutes, email, project schedules, master schedules, schematic designs, and all executed documents such as vendor and services contracts, all identified deliverables, all evaluation documentation and all change orders.

All documentation will be maintained by the project manager in a central project file that is organized by individual components of the overall project, and structured by individual tasks, milestones and evaluation documentation. A review of the project file contents will be conducted by the project manager every 60 days during the life of the project. A report will be provided to the project committee members every 60 days indicating the contents of the project file to insure that all relevant documentation is stored appropriately and any activities such as acceptance or change activities and related documents are enclosed. The project file will be reviewed at project closeout to assure completeness and given to the counties for their records upon closeout.

# ***PROPOSED***

## ***Fiscal Year 2016-2017 Budget Ordinance***

Commissioner \_\_\_\_\_ introduced the following Budget Ordinance, which was seconded by Commissioner \_\_\_\_\_ and adopted.

Whereas, the proposed budget for Fiscal Year 2016-2017 was submitted to the Board of Commissioners on May 23, 2016 by the Halifax County Manager and filed with the Clerk to the Board on that date; and,

Whereas, on June 6, 2016 the Halifax County Board of Commissioners held a public hearing on the budget pursuant to G.S. 159-13.

Be it ordained by the Halifax County Board of Commissioners that for the purpose of financing the operations of Halifax County for the fiscal year beginning July 1, 2016 and ending June 30, 2017 there are hereby appropriated from taxes and other revenue the following amounts:

BE IT ORDAINED by the Board of Commissioners of Halifax County, North Carolina

**Section 1.** The following amounts are hereby appropriated in the General Fund for the operation of the county government and its activities for the fiscal year beginning July 1, 2016 and ending June 30, 2017 in accordance with the chart of accounts heretofore established for this County:

<b>GENERAL GOVERNMENT .....</b>	<b>\$8,094,524</b>
Cooperative Extension	\$334,619
County Management	589,606
Elections	270,572
Finance Department	472,208
Governing Body	196,786
Halifax Development Commission	295,347
Human Resources	337,658
Information Technology Services	601,988
Legal Department	240,379
Library	631,057
Natural Resources Conservation	165,144
Operations Department	1,851,948
Planning and Development Services	431,207

Register of Deeds	418,823
Tax Administration	1,257,182
Tax Revaluation	0

<b>HUMAN SERVICES .....</b>	<b>\$7,916,831</b>
Health Department	2,242,613
Five County Mental Health	319,500
Five County Mental Health ABC	27,000
Social Services	5,184,163
Commodity Foods	143,555

<b>EDUCATION .....</b>	<b>\$9,819,412</b>
Schools Current Expense	5,502,131
Schools Capital Outlay	2,991,303
Halifax Community College Current Expense	1,052,851
Halifax Community College Capital Outlay	273,127

<b>PUBLIC SAFETY .....</b>	<b>\$11,170,151</b>
Central Communications	847,377
Emergency Management	77,102
Emergency Medical Services	2,492,961
Jail Department	2,814,444
Sheriff's Department	4,804,108
Fire Departments Donations	79,000
Judicial Services	25,159
Medical Examiner	30,000

<b>OTHER SERVICES .....</b>	<b>\$3,756,506</b>
Student Incentive	82,752
Juvenile Crime Prevention	167,322
Boards and Commissions	7,398
Outside Funding Recipients	82,500
Home & Community Care Block Grant	292,174
Economic Development Incentive Program	609,116
Tourism	27,709
Council on Aging	16,575

Insurance	205,028
NC Forestry Service	110,000
Transfers/ Support Services	2,155,932

Notwithstanding the appropriation for "Outside Funding Recipients", if it is determined that there is no statutory authority for the county to engage in the activity funded for the outside funding recipient, or that the funding of such activity is not authorized by law, then such appropriation shall be void.

**TOTAL APPROPRIATION** **\$40,757,424**

**Section 2.** It is estimated that the following revenues will be available in the General Fund for the fiscal year beginning July 1, 2016 and ending June 30, 2017.

<b>AD VALOREM TAXES</b> .....	<b>\$23,643,200</b>
Taxes Ad Valorem	23,108,200
Prior Years Taxes	360,000
Late Payment Interest	150,000
Gross Tax Receipts	25,000

<b>OTHER TAXES AND LICENSES</b> .....	<b>\$11,143,640</b>
.01 Sales Tax	2,388,240
½ Cent Sales Tax	2,275,000
½ Cent Sales Tax	1,785,000
Local ¼ Cent Sales Tax	1,125,000
Register of Deeds	252,000
ABC	181,600
Privilege Schedule B	5,200
Occupancy Taxes-Administration	731,600
Motor Vehicle Tax	2,400,000

<b>INTERGOVERNMENTAL REVENUES</b> .....	<b>\$504,021</b>
Facility Fees	66,000
Telecable Franchise Tax	98,221
Emergency Management	0
Reimbursement from State-DWI	4,800
Municipal Tax and Fee Collection	335,000

<b>PERMITS AND FEES</b> .....	<b>\$682,560</b>
Building Inspection Fees	125,000

Elections Revenue/Filing Fees	0
Sheriff's Fees	57,800
Controlled Substance Analysis	0
Civil Fees	46,000
Debt Setoff Fees	0
Jail Canteen	25,600
Inmate Sick Call Fees	300
Misdemeanant Program	10,000
Officer Fees	15,000
Fine & Forfeitures	201,500
Jail Fees	27,000
Data Processing Fees	0
Tax Administration- Maps	2,650
Handgun Processing-Sheriff	20,000
Handgun Fingerprint Fee	3,500
GIS Fees	0
Camp Fees	13,160
Attorney Fees	67,050
Tax Advertising Fees	68,000

<b>MISCELLANEOUS REVENUE</b> .....	<b>\$1,084,379</b>
Concession Machines	100
Magistrates Rent	2,100
Other Rents	104,046
Interest on Investments	10,000
Library	103,684
Economic/Physical Development	25,819
Miscellaneous Revenue	50,000
Jail Paytel Communications	22,000
Fire - Loan	6,000
Farmers' Market	3,000
Social Services/Weldon Middle Sewer Pump	2,687
Weldon SRO	130,472
Halifax Co. Schools SRO	236,153
Donations – Sheriff	1,000
Public Utilities – Water Indirect Cost	111,705
Public Utilities – Solid Waste Indirect Cost	119,656
Public Utilities – Solid Waste Monofill Indirect Cost	4,783
Tourism	27,709
QSCB Debt Pmt Federal Reimbursement	116,160
RVCC/EDC/TDA Maint. Account	6,000

Meals on Wheels Donations	1,305
<b>HUMAN SERVICES.....</b>	<b>\$2,000</b>
Veterans Administration	2,000
<b>GRANTS.....</b>	<b>\$696,192</b>
Student Incentive	82,752
Youth Services-DJJDP	167,322
Home & Community Care Block Grant	302,563
Commodity Food	143,563
<b>TRANSFER FROM OTHER FUNDS .....</b>	<b>\$498,886</b>
<b>FUND BALANCE.....</b>	<b>\$2,502,546</b>
 <b><u>TOTAL REVENUES</u></b>	 <b><u>\$40,757,424</u></b>

**Section 3.** The following amounts are hereby appropriated in the **Reassessment Fund** for the future revaluation of property in Halifax County during the fiscal year beginning July 1, 2016 and ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

<b><u>RESERVE FOR REVALUATION</u></b>	<b><u>\$252,386</u></b>
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**Section 4.** It is estimated that the following revenues will be available to the **Reassessment Fund** for the fiscal year beginning July 1, 2016 and ending June 30, 2017:

Transfer General Fund	\$150,000
Fund Balance	102,386

<b><u>TOTAL ESTIMATED REVENUES</u></b>	<b><u>\$252,386</u></b>
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**Section 5.** The following amounts are hereby appropriated for **Unemployment Insurance** for the fiscal year beginning July 1, 2016 and ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

Expenses	\$24,889
Transfer General Fund	246,500

<b><u>TOTAL APPROPRIATIONS</u></b>	<b><u>\$271,389</u></b>
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**Section 6.** It is estimated that the following revenues will be available for **Unemployment Insurance** for the fiscal year beginning July 1, 2016 and ending June 30, 2017:

Interest Earned	\$0
Transfer General Fund	271,389
Fund Balance	0

<b><u>TOTAL ESTIMATED REVENUES</u></b>	<b><u>\$271,389</u></b>
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**Section 7.** The following amounts are hereby appropriated for the **Drug Enforcement Fund** for the fiscal year beginning July 1, 2016 and ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

Miscellaneous Expenditures	\$200
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<b><u>TOTAL APPROPRIATIONS</u></b>	<b><u>\$200</u></b>
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**Section 8.** It is estimated that the following revenues will be available for the **Drug Enforcement Fund** for the fiscal year beginning July 1, 2016 and ending June 30, 2017:

Fund Balance	\$200
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<b><u>TOTAL ESTIMATED REVENUES</u></b>	<b><u>\$200</u></b>
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**Section 9.** The following amounts are hereby appropriated for the **Drug Task Force Funds** for the fiscal year beginning July 1, 2016 and ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

Supplies and Materials	\$14,000
Vehicle Repair	0
Tools and Equipment	4,000
Other Expense	19,000

<b><u>TOTAL APPROPRIATIONS</u></b>	<b><u>\$37,000</u></b>
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**Section 10.** It is estimated that the following revenues will be available for the **Drug Task Force Funds** for the fiscal year beginning July 1, 2000 and ending June 30, 2017:

Federal Funds	\$0
Other Operating Revenues	0
Fund Balance	37,000

<b><u>TOTAL ESTIMATED REVENUES</u></b>	<b><u>\$37,000</u></b>
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**Section 11.** The following amounts are hereby appropriated for the **Controlled Substance Tax Fund** for the fiscal year beginning July 1, 2016 and ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

Supplies and Materials	\$10,000
Capital Outlay	15,000
Travel/Training	2,000
Other Expense	3,000



**TOTAL APPROPRIATIONS** **\$30,000**

**Section 12.** It is estimated that the following revenues will be available for the **Controlled Substance Tax Funds** for the fiscal year beginning July 1, 2016 and ending June 30, 2017:

State Funds	\$0
Interest Earned	0
Fund Balance	30,000

**TOTAL ESTIMATED REVENUES** **\$30,000**

**Section 13.** The following amounts are hereby appropriated for the **Federal Asset Forfeiture Fund** for the fiscal year beginning July 1, 2016 and ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

Supplies	\$15,000
Capital Outlay	15,000

**TOTAL APPROPRIATIONS** **\$30,000**

**Section 14.** It is estimated that the following revenues will be available for the **Federal Asset Forfeiture Funds** for the fiscal year beginning July 1, 2016 and ending June 30, 2017:

Federal Funds	\$0
Interest Earned	0
Fund Balance	30,000

**TOTAL ESTIMATED REVENUES** **\$30,000**

**Section 15.** The following amounts are hereby appropriated for the **Emergency Telephone System** for the fiscal year beginning July 1, 2016 and ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

Telephone Expenses	\$55,000
Service Contracts	155,000
Recurring Charges	0
Wireless Charges	0

Expenses	55,274
Capital Outlay	69,781

**TOTAL APPROPRIATIONS** **\$335,055**

**Section 16.** It is estimated that the following revenues will be available for the **Emergency Telephone System** for the fiscal year beginning July 1, 2016 and ending June 30, 2017:

Wireless Fund	\$335,055
Fund Balance	0

**TOTAL ESTIMATED REVENUES** **\$335,055**

**Section 17.** The following amounts are hereby appropriated for the **Health Insurance Fund** for the fiscal year beginning July 1, 2016 and ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

Expenses	\$4,100,000
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**TOTAL APPROPRIATIONS** **\$4,100,000**

**Section 18.** It is estimated that the following revenues will be available for the **Health Insurance Fund** for the fiscal year beginning July 1, 2016 and ending June 30, 2017:

Revenue	\$4,100,000
Interest Earned	0
Fund Balance	

**TOTAL ESTIMATED REVENUES** **\$4,100,000**

**Section 19.** The following amounts are hereby appropriated for the **Solid Waste Disposal Fund** for the fiscal year beginning July 1, 2016 and ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

Salaries and Benefits	\$583,687
Supplies	809,907
Capital	137,800

<b><u>TOTAL APPROPRIATIONS</u></b>	<b><u>\$1,531,394</u></b>
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**Section 20.** It is estimated that the following revenues will be available for the **Solid Waste Disposal Fund** for the fiscal year beginning July 1, 2016 and ending June 30, 2017:

Tipping Fees	\$62,327
Availability Fees	1,131,600
Westmoreland Operations	305,744
Other Revenues	31,723
Fund Balance	0

<b><u>TOTAL ESTIMATED REVENUES</u></b>	<b><u>\$1,531,394</u></b>
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**Section 21.** The following amounts are hereby appropriated for the **White Goods Disposal Fund** operation for the fiscal year beginning July 1, 2016 and ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

Engineering Services	\$10,000
Fees	0

<b><u>TOTAL APPROPRIATIONS</u></b>	<b><u>\$10,000</u></b>
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**Section 22.** It is estimated that the following revenues will be available for the **White Goods Disposal Fund** operations for fiscal year beginning July 1, 2016 and ending June 30, 2017:

Privilege Tax	\$0
Miscellaneous Revenue	0
Fund Balance	10,000

<b><u>TOTAL ESTIMATED REVENUES</u></b>	<b><u>\$10,000</u></b>
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**Section 23.** The following amounts are hereby appropriated for the **Solid Waste Transfer Station Fund** operation for the fiscal year beginning July 1, 2016 and ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

Salaries and Benefits	48,377
Supplies	12,468

Collection and Hauling	2,296,274
Debt Service	189,839
Capital Outlay	20,000

<b><u>TOTAL APPROPRIATIONS</u></b>	<b><u>\$2,566,958</u></b>
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**Section 24.** It is estimated that the following revenues will be available for the **Solid Waste Transfer Station Fund** operations for fiscal year beginning July 1, 2016 and ending June 30, 2017:

Tipping Fees	\$16,588
MSW Collection/Disposal	2,259,970
Availability Fees	290,400

<b><u>TOTAL ESTIMATED REVENUES</u></b>	<b><u>\$2,566,958</u></b>
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**Section 25.** The following amounts are hereby appropriated for the **Solid Waste Electronics Management Fund** operation for the fiscal year beginning July 1, 2016 and ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

Recycling Disposal Fee	10,000
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<b><u>TOTAL APPROPRIATIONS</u></b>	<b><u>\$10,000</u></b>
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**Section 26.** It is estimated that the following revenues will be available for the **Solid Waste Electronics Management Fund** operations for fiscal year beginning July 1, 2016 and ending June 30, 2017:

SW Electronics Management	\$3,000
Fund Balance	7,000

<b><u>TOTAL ESTIMATED REVENUES</u></b>	<b><u>\$10,000</u></b>
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**Section 27.** The following amounts are hereby appropriated for the **Tire Disposal Fund** operations for the fiscal year beginning July 1, 2016 and ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

Fees	\$80,000
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**TOTAL APPROPRIATIONS** **\$80,000**

**Section 28.** It is estimated that the following revenues will be available for the **Tire Disposal Fund** operations for the fiscal year beginning July 1, 2016 and ending June 30, 2017:

Sales Tax	\$65,000
Interest Earned	0
Scrap Tire Grant	15,000
Fund Balance	0

**TOTAL ESTIMATED REVENUES** **\$80,000**

**Section 29.** The following amounts are hereby appropriated for the **Water Department** operations for the fiscal year beginning July 1, 2016 and ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

Salaries and Benefits	\$693,288
Supplies	836,531
Services	508,132
Water Purchases	2,101,528
Capital Outlay	46,600
Debt Service	1,670,821

**TOTAL APPROPRIATIONS** **\$5,856,900**

**Section 30.** It is estimated that the following revenues will be available for the **Water Department** operations for the fiscal year beginning July 1, 2016 and ending June 30, 2017:

Other Operating Revenues	\$207,241
Water Sales	5,356,055
Fees	291,890
Interest	1,714
Fund Balance	0

**TOTAL ESTIMATED REVENUES** **\$5,856,900**

**Section 31.** The following amounts are hereby appropriated for the **Law Enforcement Separation Fund** for the fiscal year beginning July 1, 2016 and

ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

Salaries and Benefits	\$95,000
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**TOTAL APPROPRIATIONS** **\$95,000**

**Section 32.** It is estimated that the following revenues will be available for the **Law Enforcement Separation Fund** for the fiscal year beginning July 1, 2016 and ending June 30, 2017:

Transfer General Fund	\$70,000
Interest Earned	0
Fund Balance	25,000

**TOTAL ESTIMATED REVENUES** **\$95,000**

**Section 33.** The following amounts are hereby appropriated for the **Public School Building Fund** for the fiscal year beginning July 1, 2016 and ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

Expenses	\$87,000
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**TOTAL APPROPRIATIONS** **\$87,000**

**Section 34.** It is estimated that the following revenues will be available for the **Public School Building Fund** for the fiscal year beginning July 1, 2016 and ending June 30, 2017:

Interest Earned	\$0
Fund Balance	87,000

**TOTAL ESTIMATED REVENUES** **\$87,000**

**Section 35.** The following amounts are hereby appropriated for the **Health Department** operations for the fiscal year beginning July 1, 2016 and ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

Salaries and Benefits	\$4,647,965
Operational Expense	1,964,511

Capital Outlay	174,967
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<b><u>TOTAL APPROPRIATIONS</u></b>	<b><u>\$6,787,443</u></b>
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**Section 36.** It is estimated that the following revenues will be available for the **Health Department** operations for the fiscal year beginning July 1, 2016 and ending June 30, 2017:

County Appropriation	\$2,242,613
Home Health and Hospice Fund Balance	70,313
State Grants	1,429,263
Fees/Donations	201,228
Health Fund Balance	392,796
Home Health - Medicaid, Medicare Ins.	1,182,000
Hospice Donations – United Way/Private Ensure	287,500
Medicare, Medicaid	549,930
Other	431,800

<b><u>TOTAL ESTIMATED REVENUES</u></b>	<b><u>\$6,787,443</u></b>
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**Section 37.** The following amounts are hereby appropriated for the **Department of Social Services** operations for the fiscal year beginning July 1, 2016 and ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

General Administration	\$10,148,668
Purchased Services	3,139,843
Medicaid/Special Assistance	1,415,000
Foster Care/Adoptions	462,038
Crisis	418,256
Blind Services	6,536
Lieap Program	412,661

<b><u>TOTAL APPROPRIATIONS</u></b>	<b><u>\$16,003,002</u></b>
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**Section 38.** It is estimated that the following revenues will be available for the **Department of Social Services** operations for the fiscal year beginning July 1, 2016 and ending June 30, 2017:

General Administration/Purchased Services	\$9,302,850
Foster Care/Adoption	87,198

IV-D Incentive Returns	75,302
CAP/Medicaid Case Management	925,000
Twin Co./Hospital	15,828
General Fund Appropriation	5,184,163
Lieap Program	412,661

<b><u>TOTAL ESTIMATED REVENUES</u></b>	<b><u>\$16,003,002</u></b>
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**Section 39.** The following amounts are hereby appropriated for the **Cooperative Extension Agent Program/County Extension/4-H Account** for the fiscal year beginning July 1, 2016 and ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

Coop Agent Program Expenses	\$350
County Extension Expenses	2,000
4-H Account Expenses	1,500

<b><u>TOTAL APPROPRIATIONS</u></b>	<b><u>\$3,850</u></b>
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**Section 40.** It is estimated that the following revenues will be available for the **Cooperative Extension Agent Program/County Extension/4-H Account** for the fiscal year beginning July 1, 2016 and ending June 30, 2017:

Fees	\$1,000
Donations	1,350
4-H Livestock	1,000
Other Revenues	500

<b><u>TOTAL ESTIMATED REVENUES</u></b>	<b><u>\$3,850</u></b>
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**Section 41.** The following amounts are hereby appropriated for the operations of **Emergency Medical Services** for the fiscal year beginning July 1, 2016 and ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

Salaries and Benefits	\$4,378,588
Operating Expenses	799,608
Debt Service	92,574
Transfer General Fund	0
Capital Outlay	310,000

**TOTAL APPROPRIATIONS** **\$5,580,770**

**Section 42.** It is estimated that the following revenues will be available for the operations of **Emergency Medical Services** for the fiscal year beginning July 1, 2016 and ending June 30, 2017:

Gas Tax Refund	\$0
Emergency Medical Services	2,778,877
CST REP RE	200,000
Warren Co. Appropriation	104,932
Transfer General Fund	2,492,961
HFD Contract	4,000
Debt Setoff Collections	0

**TOTAL ESTIMATED REVENUES** **\$5,580,770**

**Section 43.** The following amounts are hereby appropriated for the operations of **Central Communications** for the fiscal year beginning July 1, 2016 and ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

Salaries and Benefits	\$1,182,426
Operating Expenses	108,791

**TOTAL APPROPRIATIONS** **\$1,291,217**

**Section 44.** It is estimated that the following revenues will be available for the operations of **Central Communications** for the fiscal year beginning July 1, 2016 and ending June 30, 2017:

City of Roanoke Rapids Contribution	\$322,550
Town of Scotland Neck Contribution	31,842
Town of Weldon Contribution	39,498
Town of Enfield Contribution	43,144
Town of Littleton Contribution	6,077
Town of Hobgood Contribution	729
Transfer General Fund	847,377

**TOTAL ESTIMATED REVENUES** **\$1,291,217**

**Section 45.** The following amounts are hereby appropriated in the **Fire District Fund** for the operation of fire protection services for the fiscal year beginning July 1, 2016 and ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

Davie Fire District	\$430,000
Darlington Fire District	81,700
Rheasville Fire District	192,800
Thelma Fire District	125
Tillery Fire District	31,800
Littleton Fire District	258,800
Brinkleyville Fire District	0
Arcola Fire District	55,600
Enfield Fire District	183,800
Halifax Fire District	103,550
Hobgood Fire District	27,625
Scotland Neck Fire District	102,700
Weldon Fire District	109,000

**TOTAL APPROPRIATIONS** **\$1,577,500**

**Section 46.** It is estimated that the following revenues will be available in the **Fire District Fund** for the fiscal year beginning July 1, 2016 and ending June 30, 2017:

Tax Revenues	\$1,360,600
Sales Tax	216,900

**TOTAL ESTIMATED REVENUES** **\$1,577,500**

**Section 47.** The following amounts are hereby appropriated for the **Tax Agency Fund** for the fiscal year beginning July 1, 2016 and ending June 30, 2017, in accordance with the chart of accounts heretofore established for this county:

Town of Littleton Tax Payments	\$251,000
City of Roanoke Rapids Tax Payments	10,723,000
Town of Weldon Tax Payments	1,465,000
Town of Scotland Neck Tax Payments	676,000
Town of Enfield Tax Payments	588,000
Town of Hobgood Tax Payments	74,000
Town of Halifax Tax Payments	78,000

**TOTAL APPROPRIATIONS** **\$13,855,000**

**Section 48.** It is estimated that the following revenues will be available for the **Tax Agency Fund** for the fiscal year beginning July 1, 2016 and ending June 30, 2017:

Town of Littleton Tax Collected	\$251,000
City of Roanoke Rapids Tax Collected	10,723,000
Town of Weldon Tax Collected	1,465,000
Town of Scotland Neck Tax Collected	676,000
Town of Enfield Tax Collected	588,000
Town of Hobgood Tax Collected	74,000
Town of Halifax Tax Collected	78,000

**TOTAL ESTIMATED REVENUES** **\$13,855,000**

**Section 49.** There is hereby levied a tax at the rate of seventy-three cents (\$0.73) per one hundred dollars (\$100) valuation of property listed as of January 1, 2015, for the purpose of raising revenue included in "Ad Valorem Taxes - Current Year" in the General Fund in Section 2 of this ordinance.

This rate of tax is based on an estimated total valuation of property for the purpose of taxation of \$3,146,476,523 with an estimated collection rate of 95.50%.

**Section 50.** Pursuant to G.S. 153A-149(b)(7), there is hereby levied a tax at the rate of five cents (\$0.05) per one hundred dollars (\$100) valuation of property listed as of January 1, 2016, for the purpose of raising revenue for the repayment of debt incurred by the County pursuant to an Installment Financing Contract dated May 26, 2016, to finance the construction of a new elementary school to replace Manning Elementary School. The County shall cause all such revenues received under this levy it to be deposited to the credit of the General Fund of the County, but to be disbursed only for said debt repayment. The rate of tax is based on an estimated total valuation of property for the purpose of taxation of \$3,146,476,523 with an estimated collection rate of 95.50%.

**Section 51.** Pursuant to G.S. 115C-511, there is hereby levied a tax at the rate of \$0.20 per one hundred dollars (\$100) valuation of property listed for taxes as of January 1, 2015, located within the Weldon-Halifax Administrative School Unit for the purpose of supplementing the revenues of the Administration Unit. The rate of tax is based on an estimated total valuation of property for the purpose of taxation of \$646,947,805 and an estimated collection rate of 95.50%.

There is hereby appropriated to the Weldon-Halifax Administrative Unit the sum of \$1,235,670 from the proceeds of said tax plus any additional revenue accruing to the Weldon-Halifax Administrative Unit as required by law from Sales Taxes and other sources.

**Section 52.** The following taxes are hereby levied for the Special Fire Districts shown below. Each rate is per \$100 valuation of property listed for taxes as of January 1, 2015, located within each Fire District. This rate of tax is based on an estimated total valuation of real and personal property for the purposes of taxation of \$1,685,958,185. The rates of tax are based on an estimated collection rate of 95.50%.

There is hereby appropriated to the Fire Districts the sum of \$1,164,145 from the proceeds of said tax plus any additional revenue accruing to the Special Fire Districts as required by law from Sales Taxes and other sources.

TAXING DISTRICT	PROPERTY VALUATION	TAX RATE	REVENUE
Davie	\$347,089,947	0.0945	\$313,240
Darlington	70,786,517	0.089	60,165
Rheasville	202,836,879	0.0705	136,565
Tillery	52,631,579	0.0475	23,875
Littleton	395,131,086	0.0534	201,505
Arcola	62,038,405	0.0677	40,110
Enfield	201,449,275	0.069	132,745
Halifax	112,637,363	0.0728	78,310
Hobgood	32,116,788	0.0685	21,010
Scotland Neck	113,043,478	0.069	74,490
Weldon	96,196,868	0.0894	82,130

**Section 53.** There is hereby levied a tax at the rate of \$0.1244 per \$100 valuation of property listed for taxes as of January 1, 2015, located within the Our Community Hospital District for the purpose of raising revenue for said Hospital District. This rate of tax is based on an estimated tax valuation of property for the purposes of taxation of \$290,093,304 and an estimated collection rate of 95.50%.

There is hereby appropriated to Our Community Hospital District the sum of \$344,637 from the proceeds of said tax plus any additional revenue accruing to the Our Community Hospital District as required by law from Sales Taxes and other sources.



**Section 54.** In accordance with G. S. 115C-429 (b) the following appropriations are made to the Halifax County, Weldon City, and Roanoke Rapids School Districts for Current Expenses. Per Pupil ADM allocations for Charter School students residing in Halifax County are included in the three school systems Current Expense allocations. The budget resolution adopted by those School Districts shall conform to the appropriations set forth in the Budget Ordinance.

In addition, the amount allocated to the three school units for Capital Outlay is only reserved for those units and will be appropriated on a project or item basis after prior approval of the project or item by the Board of Commissioners. Any funds reserved for Capital Outlay that have not been approved for use by a school unit at the end of the fiscal year will revert back to the General Fund of Halifax County.

None of the funds appropriated to a school unit by the county as Current Expense can be used to increase any salaries, benefits, compensation, etc. by any amount above the percent or amount approved for state employees by the General Assembly.

**School Appropriations:**

	Halifax County	Roanoke Rapids	Weldon
Total Current Expense	\$2,555,190	\$2,150,783	\$796,158
Total Capital Outlay	351,026	295,469	109,374

- The Capital Outlay amount listed for RRGSD includes the QZAB debt service payment of \$89,500. The Capital Outlay amount also includes QSCB Debt Service for Weldon City Schools \$60,992 and QSCB Debt Service for RRGSD \$113,271.
- Additional Capital Outlay items are as follows: Enfield School project \$1,212,313.

**Section 55.** A solid waste collection fee is hereby levied on the owner of each residence or residential unit in Halifax County located outside municipal boundaries according to the Solid Waste Ordinance adopted for this purpose. The amount of the fee is \$155.86 per year per residence or residential unit and will be billed and collected as part of the property tax billing made to property owners. A solid waste availability fee is hereby levied on the owner of every habitable dwelling located in Halifax County according to the Solid Waste Ordinance adopted for this purpose. The amount of \$47.15 per year per habitable dwelling will be billed and collected as part of the property tax billing made to property owners. The transfer station availability fee will be \$12.10.

**Section 56.** Funds collected from solid waste fees will be credited in accordance with the schedule adopted by the Board of Commissioners.

**Section 57.** The Budget Officer is hereby authorized to transfer appropriations as contained herein under the following conditions:

- He/she may transfer amounts between line item expenditures within a department without limitation and without a report being required. These changes should not result in increases in recurring obligations such as salaries.
- He/she may transfer amounts up to \$1,000 between departments, including contingency appropriations, within the same fund. He must make an official report on such transfers at the next regular meeting of the Board of Commissioners.
- He/she may neither transfer any amounts between funds nor from any contingency appropriation within any fund, except as approved by the Board of Commissioners in the Budget Ordinance as amended.

**Section 58.** The Budget Officer may make cash advances between funds for periods not to exceed 60 days without reporting to the Board of Commissioners. Any advances that extend beyond 60 days must be approved by the Board. All advances that will be outstanding at the end of any fiscal year must be approved by the Board.

**Section 59.** The County Manager is hereby authorized to execute contractual documents under the following conditions.

- He/she may execute contracts for construction, repair projects or design services requiring the estimated expenditure of \$15,000 or less, provided the amounts are within budgeted appropriations.
- He/she may execute contracts for: 1) purchases of apparatus, supplies, materials, or equipment which are within budgeted appropriations; and, 2) services which are within budgeted appropriations.
- He/she may execute grant agreements to or from public and non-profit organizations which are within budgeted appropriations, unless a grantor organization requires execution by the Board of Commissioners.

**Section 60.** Capital Outlay purchases shall be defined as equipment and physical property, other than land or buildings, having a useful life of more than three years and a cost in excess of \$5,000.

**Section 61.** Copies of this Budget Ordinance shall be furnished to the Clerk to the Board of Commissioners, the Budget Officer, the Finance Officer and the Tax Administrator to be kept on file by them for their direction in the disbursement of funds.

**Section 62.** This 2016-2017 budget includes a ceiling on the maximum number of funded positions by department.

a. This budget provides for the following full-time employee positions:

Board of Elections	2
Cooperative Extension Service	4
County Management	6
Economic Development	2
Emergency Services – Central Communications	21
Emergency Services – Emergency Management	1
Emergency Services – Emergency Medical Services	64
Finance	8
Human Resources Management	7
Information Technology	4
Legal	2
Library	10
Natural Resources Conservation Service	3
Operations	17
Planning and Development	5
Public Health	84
Public Utilities	24
Register of Deeds	6
Sheriff	70
Sheriff – Jail	32
Social Services	169
Tax Administration	20
<u>Tax Revaluation</u>	<u>7</u>
Total Full-Time Positions	568

b. Pursuant to G.S. 128-21 (11d) and G.S. 143-166.50(a)(3), the number of full time paid personnel who receive service retirement benefits for law enforcement officers and supplemental retirement benefits for law enforcement officers may not exceed

the number of law enforcement positions approved by the Halifax County Board of Commissioners. The number of law enforcement positions approved by the Halifax County Board of Commissioners is 69. Subject only to this limitation, the Sheriff may employ such personnel in any position he deems advisable.

c. The County Manager will continue to enforce a hiring freeze as positions come vacant, but may use discretion if a vacant position will negatively impact the revenue generation, work efficiency, or public safety of the County.

Adopted this 20<sup>th</sup> day of June 2016.

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Vernon J. Bryant, Chairman  
Halifax County Board of Commissioners

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Andrea H. Wiggins  
Clerk to the Board



# Halifax County Schedule of Fees

To be Effective July 1, 2016

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# **1. Building Inspection**

- 1.1.** The valuations of structures are determined by square footage as follows:
- 1.1.1.** For two-story dwellings, the second story shall be figured at the same cost per square foot as the first floor
  - 1.1.2.** In determining the square footage of a building, or structure, the outside dimensions of the building, or structure, to be erected shall be used
  - 1.1.3.** Finished basements must be figured on the same cost per square foot area as the remainder of the structure
  - 1.1.4.** Unfinished basements, porches, carports, attached garages, and additional stories to dwelling (including modulars) shall be figured at the same cost per square foot of the dwelling
  - 1.1.5.** Detached garages and storages buildings shall be figured per square foot of the building \$ 0.12
  - 1.1.6.** Boathouses shall be determined per square foot \$ 0.12
  - 1.1.7.** Piers and decks shall be determined per square foot \$ 0.12
  - 1.1.8.** Commercial buildings, professional offices and clinics, any type of construction shall be determined per square foot \$ 0.23
  - 1.1.9.** Warehouse construction, wall six (6) inches, eight (8) inches, or twelve (12) inches shall be determined per square foot block, brick, or frame. \$ 0.10
  - 1.1.10.** Metal buildings
    - 1.1.10.1.** Warehouse Use (Unfinished) shall be determined per sq ft \$ 0.10
    - 1.1.10.2.** Commercial Use (Finished) shall be determined per sq ft \$ 0.12

- 1.2.** Residential building permit fees shall be based on the total square footage of the proposed work as follows in the table below:

Building Square Foot	\$ / sq ft
0 - 1,200 sq ft	\$0.17 / sq ft
1,201 - 2,500 sq ft	\$0.19 / sq ft
2,501 - 3,000 sq ft	\$0.23 / sq ft
3,001 + sq ft	\$0.25 / sq ft

- 1.2.1.** Permits shall not be required for work costing < \$5,000 unless the work involves load bearing structures OR requires an inspection per building code
- 1.2.2.** Permits shall be required for all accessory buildings. All buildings must be anchored down.
- 1.2.3.** All building permit fees are based off of a \$50.00 minimum

1.2.4.	Building permits shall be required for all buildings, including schools, churches, fire departments, rescue squads, etc.	
1.2.5.	Building permits shall <u>NOT</u> be required for bona fide farm buildings.	
1.2.6.	Modular homes:	
1.2.6.1.	Listed: \$2.00 for each \$1,000.00 or fraction thereof the valuation	
1.2.6.2.	Unlisted: Same as dwelling fee schedule in this section.	
1.2.7.	Mobile home set-up fee	
1.2.7.1.	Singlewide	\$ 85.00
1.2.7.2.	Doublewide	\$ 95.00
1.2.7.3.	Triplewide	\$ 110.00
1.2.8.	Moved buildings	\$ 50.00
1.2.9.	Demolition of buildings	\$ 50.00 (plus any additional costs)
1.2.10.	Swimming pools	
1.2.10.1.	Above ground	\$ 50.00
1.2.10.2.	In ground (additional costs for electrical & plumbing permits)	\$0.11 / sq ft
1.2.11.	Building not specified	Valued at bid cost
1.2.12.	Sign permits: Permit fee based on sign value. First \$1,000.00 of valuation shall be \$50.00 and \$10.00 for each additional \$5,000.00 of valuation.	
1.2.13.	Re-inspection fees per trip	\$ 40.00
1.2.14.	Additional charges: The permit fee shall be doubled on any work that is begun before the proper permit is issued. The additional charge shall be limited to \$50.00	
1.2.15.	Fee for issuance of Certificate of Occupancy	\$ 50.00
1.2.16.	Commercial building plan review (preliminary or construction plan involving County review)	
1.2.16.1.	Technical review	\$ 150.00
1.2.16.2.	Additional charge per review for failure to satisfy review comments	\$ 50.00
1.2.16.3.	Plan review - sites less than 10,000 square feet	\$ 75.00
1.3.	Electrical Permit Fees shall be as follows:	
1.3.1.	Amperes	
1.3.1.1.	Minimum electrical permit	\$ 50.00
1.3.1.2.	101-200	\$ 50.00
1.3.1.3.	201-400	\$ 70.00

	1.3.1.4.	For each 100 amp over 400	\$ 30.00
	1.3.1.5.	For services over 3,000 amp	\$30+\$0.03 / sq ft for new construction
1.3.2.		The fees set out in this subsection shall also apply for mobile homes, crop dryers, bulk barns, signs, and service poles.	
1.3.3.		Utility inspections: A utility inspection may be required by the electric company to be made on the electrical system of any structure whose electrical service has been discontinued for a period of 30 days or longer. Before a reconnection is allowed, the structure, if to be occupied, must have a sewer system approved by the County Health Department. The utility inspection fee shall be	\$ 50.00
1.3.4.		Re-inspection fees per trip	\$ 40.00
1.3.5.		Additional charges: The permit fee shall be doubled on any work that is begun before the proper permit is issued. The additional charge shall be limited to \$50.00.	
1.4.		Heating and Air Conditioning Permit Fees	
	1.4.1.	Residential	
	1.4.1.1.	Heating and air conditioning units	\$ 50.00
	1.4.1.2.	Heating unit only	\$ 50.00
	1.4.1.3.	Air conditioning only	\$ 50.00
	1.4.2.	Commercial	
	1.4.2.1.	First Unit	\$ 60.00
	1.4.2.2.	Each Additional Unit	\$ 20.00
	1.4.2.3.	For new construction	\$20 + \$0.03/sq ft
	1.4.3.	Gas Piping	\$ 50.00
	1.4.4.	Re-inspection fees per trip	\$ 40.00
	1.4.5.	Additional charges: The permit fee shall be doubled on any work that is begun before the proper permit is issued. The additional charge shall be limited to \$50.00	
1.5.		Plumbing Permit Fees for installation of plumbing in new structures, or in old structures, in which plumbing fixtures have not been previously installed, or new baths added, shall be as follows:	
	1.5.1.	Minimum Plumbing Permit	\$ 50.00
	1.5.2.	First bathroom	\$ 50.00
	1.5.3.	Second bathroom or part thereof	\$ 10.00
	1.5.4.	Each additional bathroom or part thereof	\$ 10.00
	1.5.5.	Installation of plumbing in any old structure in which plumbing fixtures have not been previously installed	\$ 50.00 minimum



	1.5.6.	Water heater replacements	\$	30.00	
	1.5.7.	Hooking to County waterline	\$	40.00	
	1.5.8.	Commercial buildings	\$	50.00	minimum
	1.5.8.1.	For new construction	\$50 + \$0.03	sq/ft	
	1.5.9.	Re-inspection fees per trip	\$	40.00	
	1.5.10.	Additional charges: The permit fee shall be doubled on any work that is begun before the proper permit is issued. The additional charge shall be limited to \$50.00			
1.6.	Insulation Permit Fees shall be as follows:				
	1.6.1.	Over 400 square feet of floor space, or first level	\$	50.00	
	1.6.2.	For each additional level or fraction thereof	\$	10.00	
	1.6.3.	Re-inspection fees per trip	\$	40.00	
	1.6.4.	Additional charges: The permit fee shall be doubled on any work that is begun before the proper permit is issued. The additional charge shall be limited to \$50.00			
1.7.	Fire Prevention Fees				
	1.7.1.	Periodic fire inspections per structure		N/C	
	1.7.2.	First re-inspection for non-compliance, if code requirements are NOT met	\$	50.00	
	1.7.3.	Second re-inspections for non-compliance	\$	100.00	
	1.7.4.	Third re-inspections for non-compliance	\$	150.00	
	1.7.5.	State required semi-annual inspections on public schools		N/C	
	1.7.6.	Permit Fee for all Mandatory Fire Code Permits	\$	50.00	
	1.7.7.	Proposed Day Care Homes and Day Care Center Inspections			(due at time of inspection)
	1.7.7.1.	less than 6 children	\$	20.00	
	1.7.7.2.	6-12 children	\$	30.00	
	1.7.7.3.	more than 12 children	\$	40.00	
	1.7.7.4.	Foster home	\$	20.00	
	1.7.7.5.	Group home (residential)	\$	20.00	
	1.7.7.6.	Group home (commercial)	\$	40.00	
1.8.	Other Fees				
	1.8.1.	Asbestos Inspection Fee Per Structure			
	1.8.1.1.	Residential			
	1.8.1.1.1.	One and two family building - 3,000 square feet or less	\$	25.00	
	1.8.1.1.2.	For every additional 1,000 square feet or fraction thereof	\$	25.00	

	<b>1.8.1.2.</b>	Commercial		
	<b>1.8.1.2.1.</b>	Buildings 3,000 square feet or less	\$	60.00
	<b>1.8.1.2.2.</b>	For every additional 1,000 square feet or fraction thereof	\$	60.00
	<b>1.8.2.</b>	ABC Inspection Fee (fire & building)	\$	50.00
	<b>1.8.3.</b>	List of road names (per set)	\$	10.00
<b>1.9.</b>		Contract Agreement - Fees for Municipalities		
	<b>1.9.1.</b>	Inspection Fee - Flat Rate per Hour	\$	50.00 (building, electrical, plumbing, mechanical)
	<b>1.9.2.</b>	Inspection Fee - Flat Rate per Hour	\$	50.00 (fire inspections)
	<b>1.9.3.</b>	Mileage - travel (per mile)		(current IRS reimbursement rate per mile as amended from time to time)
	<b>1.9.4.</b>	Commercial Building Plan Review (preliminary or construction involving third-party review)		
	<b>1.9.4.1.</b>	Technical review	\$	250.00
	<b>1.9.4.2.</b>	Additional charge per review for failure to satisfy review comments	\$	100.00
	<b>1.9.4.3.</b>	Plan review - sites less than 10,000 sq ft	\$	125.00
	<b>1.9.5.</b>	Re-inspections: When a third-party inspection agency is involved, there will be an additional charge	\$	60.00

## **2. Cooperative Extension**

<b>2.1.</b>	4-H & Youth Day Camp (per person per week unless otherwise noted)	\$	55.00
<b>2.2.</b>	Ropes Course Rental (per day)	\$	100.00
<b>2.3.</b>	Rural Life Facilities Rental (per day or night Monday-Friday for agencies / groups outside County Government and affiliates)	\$	100.00
<b>2.4.</b>	Rural Life Facilities Rental (per weekend or holidays for agencies / groups outside County Government and affiliates)	\$	200.00
<b>2.5.</b>	Rings at 4-H Horse & Livestock Complex (per day)	\$	100.00
<b>2.6.</b>	Bathroom at 4-H Horse & Livestock Complex (per day)	\$	25.00
<b>2.7.</b>	Bathroom at 4-H Horse & Livestock Complex (per two days)	\$	40.00
<b>2.8.</b>	Concession Stand/Bathroom at 4-H Horse & Livestock Complex (per day)	\$	100.00
<b>2.9.</b>	Concession Stand/Bathroom at 4-H Horse & Livestock Complex (per two days)	\$	150.00
<b>2.10.</b>	Stalls at 4-H Horse & Livestock Complex (per day)	\$	15.00
<b>2.11.</b>	Stalls at 4-H Horse & Livestock Complex (per two days)	\$	25.00
<b>2.12.</b>	RV Hookups at 4-H Horse & Livestock Complex (per day)	\$	15.00
<b>2.13.</b>	Base charge for approved vendors on County property (per day)	\$	5.00
<b>2.14.</b>	Charge for approved NON-PROFIT vendors on County property (per day)	\$	-

**3. County Management**

3.1.	Photocopy (black & white) (per page)	\$	0.10	
3.2.	Official Commissioners' Agenda packet	\$	5.00	less than 100 pgs

**4. Information Technology Services**

4.1.	Thumb-drive (each)			
4.3.1.	SanDisk-Cruzer - 8 gb	\$	15.00	
4.3.2.	SanDisk-Cruzer - 16 gb	\$	25.00	
4.3.3.	SanDisk-Cruzer - 32 gb	\$	40.00	
4.3.4.	SanDisk-Cruzer - 64 gb	\$	60.00	
4.3.5.	SanDisk-Cruzer - 128 gb	\$	130.00	

**5. Board of Elections**

5.1.	Photocopy (black & white) (per page)	\$	0.10	
5.2.	Hard copy printouts / Diskette	\$	10.00	

**6. Emergency Services**

6.1.	Emergency Medical Services			
6.1.1.	BLS-Emergency rate (in/out-of-county)	\$	350.00	
6.1.2.	Advanced Life Support (ALS)-Level 1-Emergency	\$	400.00	
6.1.3.	Advanced Life Support (ALS)-Level 2	\$	575.00	
6.1.4.	Specialty Care Transport (SCT)	\$	675.00	
6.1.5.	Mileage charge	\$	8.50	
6.1.6.	No Transport Fee	\$	100.00	
6.1.7.	BLS Split rate (BLS/S)	\$	238.00	
6.1.8.	ALS Split rate (ALS/S)	\$	272.00	
6.1.9.	Waiting charge (per hour)	\$	45.00	
6.1.10.	Standby charge (per hour)	\$	50.00	
6.1.11.	Treat/No transport	\$	150.00	
6.1.12.	Treat/Helicopter	\$	175.00	
6.2.	False Alarm Fees			
6.2.1.	Initial registration of alarm system (first year)	\$	25.00	
6.2.2.	Annual registration renewal - 4 or less false alarms in previous years	\$	10.00	
6.2.3.	Annual registration renewal - 5 or more false alarms in previous years	\$	15.00	
6.2.4.	Fine for false alarms (each) over 4 allowable false alarms within year	\$	50.00	

	6.2.5.	Appeal fee	\$ 25.00
	6.2.6.	Fine for non-registered alarm system	\$ 100.00
6.3.		Photocopy (black & white) (per page)	\$ 0.10
6.4.		Fire Report (per report)	\$ 2.00
6.5.		Large Attendance Events	
	6.5.1.	EMS Standbys	\$25/hr for each staff member
		1-5,000 attendees - 5 Medical Staff	
		5,001-10,000 attendees - 7 Medical Staff	
		10,001-15,000 attendees - 10 Medical Staff	
		15,001-20,000 attendees - 12 Medical Staff	
		20,001+ attendees - 15 Medical Staff	
	6.5.2.	Ambulance Standbys	
		1-10,000 attendees = one ambulance	\$50/hr including two personnel
		10,000+ attendees = two ambulances	\$50/hr per ambulance including two personnel per ambulance

## 7. Finance Department

7.1.	Return Check fee	\$ 30.00
7.2.	Stop Payment fee (Accounts Payable)	\$ 10.00
7.3.	Stop Payment fee (Payroll)	\$ 10.00
7.4.	Photocopy (black & white) (per page)	\$ 0.10
7.5.	Audit (regular)	\$ 40.00
7.6.	Audit (CAFR)	\$ 50.00
7.7.	PDF/Bluebar Printouts (per page)	\$ 0.10
7.8.	Audit (on CD)	\$ 5.00

## 8. Health Department

8.1.	Medical Procedures	
8.1.1.	Simple or single incision and drainage abscess 10060	\$ 107.00
8.1.2.	Complicated or multiple incision of abscess 10061	\$ 313.00
8.1.3.	Incision & removal foreign body - simple 10120	\$ 155.00
8.1.4.	Puncture aspiration of abscess, hematoma, bulla or cyst 10160	\$ 135.00
8.1.5.	Incision & drainage, complex, postoperative wound infection 10180	\$ 462.00
8.1.6.	Biopsy of skin subcutaneous tissue; single lesion 11100	\$ 130.00
8.1.7.	Biopsy of skin subcutaneous tissue; each separate / additional 11101	\$ 86.00

<b>8.1.8.</b>	Removal of skin tags - up to 15 lesions 11200	\$ 130.00
<b>8.1.9.</b>	Removal of skin tags - each additional 10 lesions 11201	\$ 86.00
<b>8.1.10.</b>	Debridement of nail(s) by any method(s); one to five 11720	\$ 80.00
<b>8.1.11.</b>	Debridement of nail(s) by any method(s); six or more 11721	\$ 118.00
<b>8.1.12.</b>	Avulsion of nail plate; partial or complete; simple, single 11730	\$ 132.00
<b>8.1.13.</b>	Avulsion of nail plate; partial or complete; simple; each additional nail plate 11732	\$ 93.00
<b>8.1.14.</b>	Evacuation of subungual hematoma 11740	\$ 101.00
<b>8.1.15.</b>	Wedge excision of skin of nail fold (e.g., ingrown toenail) 11765	\$ 242.00
<b>8.1.16.</b>	Insertion, intrauterine device IUD 58300	\$ 141.00
<b>8.1.17.</b>	Intrauterine Contraceptive J7300 (p) ( c )	\$ 395.00
	<b>8.1.17.1.</b> Intrauterine Contraceptive J7300 (ud)	\$ 202.00
<b>8.1.18.</b>	Simple repair of superficial wounds of scalp, neck, axillae, external genitalia, trunk and/of extremities 2.5 cm or less 12001	\$ 167.00
<b>8.1.19.</b>	Simple repair of superficial wounds of scalp, neck, axillae, external genitalia, trunk and/of extremities 2.6 cm to 7.5 cm 12002	\$ 221.00
<b>8.1.20.</b>	Simple repair of superficial wounds of scalp, neck, axillae, external genitalia, trunk and/of extremities 7.6 cm to 12.5 cm 12004	\$ 284.00
<b>8.1.21.</b>	Simple repair of superficial wounds of face, ears, eyelids, nose, lips and/or mucous membranes; 2.5 cm or less 12011	\$ 205.00
<b>8.1.22.</b>	Treatment of superficial wound dehiscence; simple closure 12020	\$ 348.00
<b>8.1.23.</b>	Treatment of superficial wound dehiscence; with packing 12021	\$ 318.00
<b>8.1.24.</b>	Initial treatment, first degree burn, when no more than local treatment is needed 16000	\$ 92.00
<b>8.1.25.</b>	Destruction by any method of flat warts, molluscum contagiosum, or milia; up to 14 lesions 11710	\$ 124.00
<b>8.1.26.</b>	Destruction by any method of flat warts, molluscum contagiosum, or milia; up to 15 or more 17111	\$ 161.00
<b>8.1.27.</b>	Chemical cauterization of granulation tissue (proud flesh, sinus or fistula) 17250	\$ 124.00
<b>8.1.28.</b>	Injection, tendon sheath, ligament, trigger points or ganglion cyst 20550	\$ 106.00
<b>8.1.29.</b>	Arthrocentesis, aspiration and/or injection; small joint, bursa or ganglion cyst (e.g., fingers, toes) 20600	\$ 50.32
<b>8.1.30.</b>	Arthrocentesis, aspiration and/or injection; intermediate joint, bursa or ganglion cyst (e.g., wrist, elbow or ankle) 20605	\$ 107.00

<b>8.1.31.</b>	Arthrocentesis, aspiration and/or injection; major joint, bursa (e.g., shoulder, hip, knee joint, subacromial bursa) 20610	\$ 129.00
<b>8.1.32.</b>	Removal foreign body, intranasal; office procedure 30300	\$ 270.00
<b>8.1.33.</b>	Control nasal hemorrhage, anterior, simple 30901	\$ 174.00
<b>8.1.34.</b>	Intubatin, endotracheal, emergency procedure 31500	\$ 292.00
<b>8.1.35.</b>	Introduction of needle or intracatheter, vein 36000	\$ 125.00
<b>8.1.36.</b>	Veinpuncture, under age 3 years; femoral, jugular or sagittal sinus 36400	\$ 59.00
<b>8.1.37.</b>	Veinpuncture, under age 3 years; scalp vein 36405	\$ 82.00
<b>8.1.38.</b>	Veinpuncture, under age 3 years; other vein 36406	\$ 73.00
<b>8.1.39.</b>	Routine veinpuncture or finger/heel/ear stick for collection of specimen(s) 36415	\$ 17.00
<b>8.1.40.</b>	Destruction of lesion(s), penis (e.g., condyloma, papilloma, molluscum contagiosum, herpetic vesicle), simple; chemical 54050	\$ 105.00
<b>8.1.41.</b>	Destruction of lesion(s) vulva, simple, any method 56501	\$ 417.00
<b>8.1.42.</b>	Excision of Bartholin's gland or cyst 56740	\$ 868.00
<b>8.1.43.</b>	Diaphragm or cervical cap fitting with instructions 57170	\$ 91.00
<b>8.1.44.</b>	Biopsy, single or multiple, or local excision of lesion with/without fulguration (separate procedure) 57500	\$ 195.00
<b>8.1.45.</b>	Removal of intrauterine device (IUD) 58301	\$ 139.00
<b>8.1.46.</b>	Fetal non-stress test 59025	\$ 37.00
<b>8.1.47.</b>	Removal of foreign body, external eye, conjunctival superficial 65205	\$ 90.00
<b>8.1.48.</b>	Removal of foreign body from external auditory canal; without general anesthesia 69200	\$ 122.00
<b>8.1.49.</b>	Immunization administration (percutaneous, intradermal, subcutaneous, intramuscular single) 90471	\$ 18.00
<b>8.1.50.</b>	Immunization administration (percutaneous, intradermal, subcutaneous, intramuscular two or more) 90472	\$ 25.00
<b>8.1.51.</b>	Immunization, active; BCG vaccine 90585	\$ 133.00
<b>8.1.52.</b>	Immunization, active; hepatitis A vaccine Adult 90632	\$ 83.00
<b>8.1.53.</b>	Immunization, hepatitis A vaccine pediatric/adolescent dosage-2 dose schedule for intramuscular use 90636 <sup>3</sup>	\$ 83.00
<b>8.1.54.</b>	Immunization, Hemophilus influenza b Vaccine (Hib), HbOC conjugate (4 dose schedule) for intramuscular use 90645	\$ 38.00
<b>8.1.55.</b>	Immunization, Hemophilus influenza b Vaccine (Hib), PRP-D conjugate for booster use only, intramuscular use 90646	\$ 36.00

<b>8.1.56.</b>	Immunization, Hemophilus influenza b Vaccine (Hib), PRP-OMP conjugate (3 dose schedule), intramuscular use 90647	\$	36.00
<b>8.1.57.</b>	Immunization, Hemophilus influenza b Vaccine (Hib), PRP-T conjugate (4 dose schedule), intramuscular use 90648	\$	37.00
<b>8.1.58.</b>	Immunization, Lyme disease vaccine 90665	\$	74.00
<b>8.1.59.</b>	Immunization, active; rabies vaccine 90675	\$	220.00
<b>8.1.60.</b>	Immunization, Typhoid 90691	\$	57.00
<b>8.1.61.</b>	Immunization, Prevnar 90670	\$	120.00
<b>8.1.62.</b>	Immunization (DtaP) 90696	\$	54.00
<b>8.1.63.</b>	Immunization, active; diphtheria, tetanus toxoids, and pertussis vaccine (DTP) 90701	\$	34.00
<b>8.1.64.</b>	Immunization, active; diphtheria and tetanus toxoids (DT) 90702	\$	21.00
<b>8.1.65.</b>	Immunization, active; tetanus toxoid 90703	\$	23.00
<b>8.1.66.</b>	Immunization, active; mumps virus vaccine, live 90704	\$	38.00
<b>8.1.67.</b>	Immunization, active; measles virus vaccine, live attenuated 90705	\$	33.00
<b>8.1.68.</b>	Immunization, active; rubella virus vaccine, live 90706	\$	43.00
<b>8.1.69.</b>	Immunization, active; measles , mumps, and rubella virus vaccine, live	\$	55.00
<b>8.1.70.</b>	Immunization, active; measles and rubella virus vaccine, live 90708	\$	45.00
<b>8.1.71.</b>	Immunization, active; measles, mumps, rubella, and varicella vaccine 90710	\$	193.00
<b>8.1.72.</b>	Immunization, active; poliovirus vaccine, live, oral (any type(s)) 90712	\$	32.00
<b>8.1.73.</b>	Immunization, active; poliomyelitis vaccine 90713	\$	39.00
<b>8.1.74.</b>	Immunization, active; varicella (chicken pox) vaccine 90716	\$	97.00
<b>8.1.75.</b>	Immunization, active; yellow fever vaccine 90717	\$	72.00
<b>8.1.76.</b>	Immunization, active; tetanus and diphtheria toxoids absorbed, for adult use (Td) 90718	\$	23.00
<b>8.1.77.</b>	Immunization, active; diphtheria toxoid 90719	\$	25.00
<b>8.1.78.</b>	Immunization, active; diphtheria, tetanus toxoids, and pertussis (DTP) and Hemophilus influenza B (HIB) vaccine 90720	\$	55.00
<b>8.1.79.</b>	Immunization, active; diphtheria, tetanus toxoids, & acellular pertussis vaccine (DTaP) and Hemophilus influenza B (HIB) 90721	\$	62.00
<b>8.1.80.</b>	Immunization, active; influenza virus vaccine 90658	\$	32.00
<b>8.1.81.</b>	Immunization, active; cholera vaccine 90725	\$	28.00
<b>8.1.82.</b>	Immunization, active; plague vaccine 90727	\$	28.00
<b>8.1.83.</b>	Immunization, active; pneumococcal vaccine, polyvalent 90732	\$	43.00

<b>8.1.84.</b>	Immunization, active; meningococcal polysaccharide vaccine (any group(s)) 90733	\$ 113.00
<b>8.1.85.</b>	Immunization, active; encephalitis virus vaccine 90735	\$ 111.00
<b>8.1.86.</b>	Immunization, active; hepatitis B vaccine; pediatrics/adolescents 90744	\$ 57.00
<b>8.1.87.</b>	Immunization, active; hepatitis B vaccine; adult dosage 90746	\$ 58.00
<b>8.1.88.</b>	Immunization, active; hepatitis B vaccine; dialysis or immunosuppressed patient, any age 90747	\$ 168.00
<b>8.1.89.</b>	Immunization, active; hepatitis B and Hempphilus influenza B (HIB) vaccine 90748	\$ 80.00
<b>8.1.90.</b>	Unlisted immunization procedure no code	Indv rate
<b>8.1.91.</b>	Therapeutic, prophylactics or diagnostic injection (specify material injected - Subcutaneous or intramuscular) 90782	\$ 22.20
<b>8.1.92.</b>	Antibiotic injection, IM 90788	\$ 33.00
<b>8.1.93.</b>	Screening test, pure tone, air only (Audiologic function test) 92551	\$ 35.00
<b>8.1.94.</b>	Cardiopulmonary resuscitation (e.g., in cardiac arrest) 92950	\$ 490.00
<b>8.1.95.</b>	Cardioversion, elective, electrical conversion of arrhythmia, external 92960	\$ 389.00
<b>8.1.96.</b>	Electrocardiogram, routine ECG with at least 12 leads; with interpretation and report 93000	\$ 74.00
<b>8.1.97.</b>	Airway Inhalation Treatment 94640	\$ 45.00
<b>8.1.98.</b>	Aerosol or Vapor Inhalations 94664	\$ 54.00
<b>8.1.99.</b>	Pulse Oximerty - Single 94760	\$ 39.00
<b>8.1.100.</b>	Pulse Oximerty - more than once 94761	\$ 67.00
<b>8.1.101.</b>	Professional services for allergen immunotherapy not including provision of allergenic; single injection 95115	\$ 19.00
<b>8.1.102.</b>	Multiply allergy 95117	\$ 23.00
<b>8.1.103.</b>	PEDS 96110	\$ 24.00
<b>8.1.104.</b>	Medical nutrition therapy individual initial 97802	\$ 99.00
<b>8.1.105.</b>	Medical nutrition therapy re-assessment individual follow-up 97803	\$ 87.00
<b>8.1.106.</b>	Reports and forms 99080	\$ 75.00
<b>8.1.107.</b>	Screening test of visual acuity 99173	\$ 20.00
<b>8.1.108.</b>	Ipecac or similar administration for individual emesis and cont'd observation until stomach adequately emptied of poison 99175	\$ 100.00
<b>8.1.109.</b>	New patient (see Physicians' Fee Reference for complete description) 99201	\$ 96.00
<b>8.1.110.</b>	New patient (see Physicians' Fee Reference for complete description) 99202	\$ 118.00



<b>8.1.111.</b>	New patient (see Physicians' Fee Reference for complete description) 99203	\$ 189.00
<b>8.1.112.</b>	New patient (see Physicians' Fee Reference for complete description) 99204	\$ 196.00
<b>8.1.113.</b>	New patient (see Physicians' Fee Reference for complete description) 99205	\$ 200.00
<b>8.1.114.</b>	Established patient (see Physicians' Fee Reference for complete description) 99211	\$ 99.00
<b>8.1.115.</b>	Established patient (see Physicians' Fee Reference for complete description) 99212	\$ 156.00
<b>8.1.116.</b>	Established patient (see Physicians' Fee Reference for complete description) 99213	\$ 166.00
<b>8.1.117.</b>	Established patient (see Physicians' Fee Reference for complete description) 99214	\$ 166.00
<b>8.1.118.</b>	Established patient (see Physicians' Fee Reference for complete description) 99215	\$ 196.00
<b>8.1.119.</b>	Initial preventive medicine evaluation and management of individual (see PFR for complete description) under 1 year old 99381	\$ 163.00
<b>8.1.120.</b>	Initial preventive medicine evaluation and management of individual (see PFR for complete description) ages 1-4 years old 99382	\$ 163.00
<b>8.1.121.</b>	Initial preventive medicine evaluation and management of individual (see PFR for complete description) ages 5-11 years old 99383	\$ 163.00
<b>8.1.122.</b>	Initial preventive medicine evaluation and management of individual (see PFR for complete description) ages 12-17 years old 99384	\$ 163.00
<b>8.1.123.</b>	Initial preventive medicine evaluation and management of individual (see PFR for complete description) ages 18-39 years old 99385	\$ 202.00
<b>8.1.124.</b>	Initial preventive medicine evaluation and management of individual (see PFR for complete description) ages 40-64 years old 99386	\$ 199.00
<b>8.1.125.</b>	Initial preventive medicine evaluation and management of individual (see PFR for complete description) ages 65+ years 99387	\$ 215.00
<b>8.1.126.</b>	Periodic preventive medicine reevaluation and management of individual (see PFR for complete description) under 1 year 99391	\$ 126.00
<b>8.1.127.</b>	Periodic preventive medicine reevaluation and management of individual (see PFR for complete description) ages 1-4 years 99392	\$ 126.00
<b>8.1.128.</b>	Periodic preventive medicine reevaluation and management of individual (see PFR for complete description) ages 5-11 years 99393	\$ 126.00

<b>8.1.129.</b>	Periodic preventive medicine revaluation and management of individual (see PFR for complete description) ages 12-17 years 99394	\$ 202.00
<b>8.1.130.</b>	Periodic preventive medicine revaluation and management of individual (see PFR for complete description) ages 18-39 years 99395	\$ 202.00
<b>8.1.131.</b>	Periodic preventive medicine revaluation and management of individual (see PFR for complete description) ages 40-64 years 99396	\$ 160.00
<b>8.1.132.</b>	Periodic preventive medicine revaluation and management of individual (see PFR for complete description) ages 65+ years 99397	\$ 175.00
<b>8.1.133.</b>	Preventive medicine counseling and/or risk factor reduction intervention(s) - separate procedure approx 15 min 99401	\$ 60.00
<b>8.1.134.</b>	Preventive medicine counseling and/or risk factor reduction intervention(s) - separate procedure approx 30 min 99402	\$ 207.00
<b>8.1.135.</b>	Preventive medicine counseling and/or risk factor reduction intervention(s) - separate procedure approx 45 min 99403	\$ 145.00
<b>8.1.136.</b>	Preventive medicine counseling and/or risk factor reduction intervention(s) - separate procedure approx 60 min 99404	\$ 201.00
<b>8.1.137.</b>	Preventive medicine counseling and/or risk factor reduction intervention(s) to indiv in group setting approx 30 min 99411	\$ 63.00
<b>8.1.138.</b>	Preventive medicine counseling and/or risk factor reduction intervention(s) to indiv in group setting approx 60 min 99412	\$ 91.00
<b>8.1.139.</b>	Administration and interpretation of health risk assessment instrument (e.g. health hazard appraisal) 99420	\$ 31.00
<b>8.1.140.</b>	Consultation 99499	\$ 50.00
<b>8.1.141.</b>	Removal of skin lesion 11401	\$ 114.86
<b>8.1.142.</b>	Removal of skin lesion 11402	\$ 131.29
<b>8.1.143.</b>	Rhogam immune 90384	\$ 110.23
<b>8.1.144.</b>	EKG with interpretation 93005	\$ 63.00
<b>8.1.145.</b>	Removal of nail bed 11750	\$ 183.56
<b>8.1.146.</b>	Removal of foreign body 20520	\$ 160.00
<b>8.1.147.</b>	Immunization; hepatitis A vaccine and hepatitis B adult dose 90636	\$ 95.00
<b>8.1.148.</b>	Immunization; HPV Gardasil 90649	\$ 135.00
<b>8.1.149.</b>	Immunization; Tetanus, diphtheria toxoids and acellular pertussis (tdap) 90715 State Supplied	\$ 34.00
<b>8.1.150.</b>	Immunization; Pediarix (Dtap, Hpe B, IPV) 90723 State Supplied	\$ 76.00
<b>8.1.151.</b>	Psychiatric Diagnostic Interview Exam 90801	\$ 205.00
<b>8.1.152.</b>	Individual Psychiatric, insight 90804	\$ 87.83
<b>8.1.153.</b>	Individual Psychiatric, insight 90806	\$ 132.57

	8.1.154.	Family Psychotherapy without Patient 90846	\$ 128.59
	8.1.155.	Family Psychotherapy Cojoint 90847	\$ 156.64
	8.1.156.	Diabetes Self Management Training--Individual	\$ 55.34
	8.1.157.	Diabetes Self Management Training--Group	\$ 24.64
	8.1.158.	Removal of impacted ear wax 69210	\$ 157.00
	8.1.159.	Therapeutic, prophylactics or diagnostic injection (Subcutaneous or intramuscular) 96372	\$ 71.00
	8.1.160.	Preventive visit - new patient - 12-17 years old 99384-EP	\$ 362.00
	8.1.161.	Preventive visit - new patient - 18-39 years old 99358-EP	\$ 362.00
	8.1.162.	Preventive visit - established patient - 12-17 years old 99394-EP	\$ 393.00
	8.1.163.	Preventive visit - established patient - 18-39 years old 99395-EP	\$ 394.00
	8.1.164.	Rhogam D immune globulin injection J2790	\$ 111.00
	8.1.165.	Contraceptive pills for BC S4993	\$ 5.00
	8.1.166.	Antepartum Care only 4-6 visits 59425	\$ 495.00
	8.1.167.	Antepartum Care only 7 or more visits 59426	\$ 693.00
	8.1.168.	Immun Admin Oral/Nasal 90473	\$ 20.00
	8.1.169.	Drugs Unclassified Injection (17P) J3490	\$ 20.00
	8.1.170.	Pregnancy Risk Screening S0280	\$ 50.00
	8.1.171.	Postpartum Assessment S0281	\$ 150.00
	8.1.172.	Postpartum visit (59430)	\$ 126.00
8.2.	Laboratory Procedures		
	8.2.1.	Routine veinpuncture or finger/heel or ear stick for specimen collection G0001	\$ 17.00
	8.2.2.	Urinalysis, by dipstick or tablet reagent for bilirubin, glucose, hemoglobin, ketones, leukocytes, nitrite, pH, protein, specific gravity, urobilinogen, any number of these: non-automated, with microscopy 81000	\$ 23.00
	8.2.3.	Urinalysis automated, with microscopic 81001	\$ 23.00
	8.2.4.	Urinalysis non-automated, without microscopic 81002	\$ 13.00
	8.2.5.	Urinalysis automated, without microscopic 81003	\$ 18.00
	8.2.6.	Urine pregnancy test 81025	\$ 32.00
	8.2.7.	Fecal occult blood 1-3 simultaneous determination 82270	\$ 17.00
	8.2.8.	Cholesterol, total 82465	\$ 23.00
	8.2.9.	Glucola 82947	\$ 18.00
	8.2.10.	Glucose by monitoring devices-blood sugar 82948	\$ 29.00
	8.2.11.	Glucose; post glucose dose (includes glucose) one hour challenge-finger stick 82950	\$ 29.00

8.2.12.	Hemoglobin, A1C 83036	\$	47.00
8.2.13.	Hemoglobin 85018	\$	16.00
8.2.14.	Tuberculin skin test (PPD) 86580	\$	26.00
8.2.15.	GC culture 87081	\$	35.00
8.2.16.	Smear, primary source with interpretation; routine stain for bacteria, fungi, or cell types 87205	\$	25.00
8.2.17.	Wet mount for bacteria, fungi, ova, and/or parasites 87210	\$	24.00
8.2.18.	Neisseria Gonorrhea 87850	\$	51.00
8.2.19.	Infectious agent detection by immunoassay with direct optical observation; Streptococcus, group A (rapid detection) 87880	\$	51.00
8.2.20.	Handling fee for labs 99000	\$	20.00
8.2.21.	Supplies and materials - over and above the usually included with the office visits 99070	\$	12.00
8.2.22.	Alpha Fetoprotein AFP 82105	\$	35.00
8.2.23.	Rabies Vaccine ID 90676	\$	220.00
8.2.24.	DTAP HIB IP 90698	\$	82.00
8.2.25.	DTAP Vaccine <7 years of age 90700	\$	41.00
8.2.26.	TD Vaccine 90714	\$	23.00
8.2.27.	Visual Field Examination 92081	\$	45.00
8.2.28.	Lipid profile (80061)	\$	30.00
8.3.	Medical Codes		
8.3.1.	J1055 Depo-Provera Contraceptive Injection (p) ( c )	\$	60.00
8.3.1.1.	J1055 Depo-Provera Contraceptive Injection (ud)	\$	22.50
8.3.2.	D0145 Initial Comprehensive Oral Eval	\$	38.07
8.3.3.	D1206 Initial Topical Application Fluoride	\$	31.00
8.3.4.	T1017 MH MCC Initial	\$	29.30
8.3.5.	T1017 MH Subsequent MCC	\$	29.30
8.3.6.	S9442 MH Childbirth Classes - NONE	\$	19.09
8.3.7.	T1017 MH MCC Home Visit	\$	29.30
8.3.8.	T1002 TB New Control Treatment	\$	31.00
8.3.9.	T1002 STD Control Treatment	\$	31.00
8.3.10.	99501 MH Post Home Visit Assess	\$	67.00
8.3.11.	T1001 MH Skill Nurse Home Visit	\$	88.00
8.3.12.	99502 Newborn Assessment	\$	67.00
8.3.13.	Smoking Cessation Counseling	\$	16.00
8.3.14.	Birthing Classes (S9442)	\$	32.00

<b>8.4.</b>	Walk-in Procedures	
<b>8.4.1.</b>	CPR training for non-county employees	\$ 20.00
<b>8.5.</b>	Animal Control	
<b>8.5.1.</b>	Interference of animal control officer, agent or trap	\$ 250.00
<b>8.5.2.</b>	Concealment of animal to evade ordinance	\$ 100.00
<b>8.5.3.</b>	Public Nuisance	
	<b>8.5.3.1.</b> first violation	\$ 50.00
	<b>8.5.3.2.</b> second violation	\$ 100.00
	<b>8.5.3.3.</b> subsequent violations	\$ 250.00
<b>8.5.4.</b>	Reclaim	
	<b>8.5.4.1.</b> first violation	\$ 20.00
	<b>8.5.4.2.</b> second violation	\$ 35.00
	<b>8.5.4.3.</b> subsequent violations	\$ 50.00
<b>8.5.5.</b>	Keeping dangerous/potentially dangerous animal	
	<b>8.5.5.1.</b> unattended/loose/unrestrained	\$ 500.00
	<b>8.5.5.2.</b> failure to tattoo/microchip	\$ 500.00
	<b>8.5.5.3.</b> failure to notify of change of address or death	\$ 500.00
<b>8.5.6.</b>	Collection of dogs and cats for resale	\$ 500.00
<b>8.5.7.</b>	Keeping exotic animal	\$ 500.00
<b>8.5.8.</b>	Animal fighting and baiting	\$ 500.00
<b>8.5.9.</b>	Mistreatment of animals	\$ 500.00
<b>8.5.10.</b>	Cruel treatment of animals	\$ 500.00
<b>8.5.11.</b>	Keeping stray animal	\$ 100.00
<b>8.5.12.</b>	Failure to obtain rabies vaccination	\$ 100.00
<b>8.5.13.</b>	No rabies tag	\$ 10.00
<b>8.5.14.</b>	Release of suspected rabid animal	\$ 500.00
<b>8.5.15.</b>	Rabies quarantine, failure to surrender	\$ 500.00
<b>8.5.16.</b>	Quarantine (10 days)	\$ 150.00
<b>8.5.17.</b>	Boarding (per day)	\$ 15.00
<b>8.5.18.</b>	Adoption fee (intact animal)	\$ 50.00
<b>8.5.19.</b>	Adoption fee (altered animal)	\$ 25.00
<b>8.5.20.</b>	Rabies vaccination	\$ 5.00
<b>8.5.21.</b>	Rabies vaccination (by Certified Rabies Vaccinators_non-clinic related)	\$ 15.00
<b>8.6.</b>	Environmental Health	
<b>8.6.1.</b>	Single family dwelling / residential	
	<b>8.6.1.1.</b> Lot evaluation - includes improvement permit, CA and OP	\$ 350.00

	<b>8.6.1.2.</b>	Expansion/Relocation of Existing System (eval and all permits)	\$ 350.00
	<b>8.6.1.3.</b>	Surcharge for each bedroom over 4	\$ 50.00
	<b>8.6.1.4.</b>	Surcharge for all type 4 and above septic systems	\$ 200.00
	<b>8.6.1.5.</b>	Reuse/re-connection permit	\$ 75.00
	<b>8.6.1.6.</b>	Reinspection/drainfield verification	\$ 50.00
	<b>8.6.1.7.</b>	Permission slip (no site visit)	\$ 10.00
	<b>8.6.1.8.</b>	Repair permits (includes evaluation and all permits)	\$ -
	<b>8.6.1.9.</b>	Permit redraw/revision (no site visit and no flow increase), All Permits	\$ 75.00
	<b>8.6.1.10.</b>	Permit redraw/revision (site visit required), All Permits	\$ 150.00
	<b>8.6.1.11.</b>	Revisit (futile initial trip on all paid on site service request)	\$ 50.00
<b>8.6.2.</b>		All other On Site waste water	
	<b>8.6.2.1.</b>	Lot evaluation - includes all required septic permits (480 gallons or less)	\$ 500.00
	<b>8.6.2.2.</b>	Non Profit Organization Septic Permits (verifiable and all flow rates)	\$ 500.00
	<b>8.6.2.3.</b>	On Site Waste Water Permits for 481 to 3000 gpd	\$ 500.00
	<b>8.6.2.3.1.</b>	Surcharge per gallon for daily flow over 480 gpd	\$ 0.50
	<b>8.6.2.4.</b>	On Site Waste Water Permits for greater than 3000 gpd	\$ 2,000.00
	<b>8.6.2.4.1.</b>	Surcharge per 500 gpd for flows greater than 3499	\$ 100.00
	<b>8.6.2.5.</b>	Surcharge for all type 4 and above septic systems (includes non-profits)	\$ 300.00
	<b>8.6.2.6.</b>	Reinspection/reuse/reconnection permit	\$ 100.00
	<b>8.6.2.7.</b>	Permit redraw/revision (site visit required), All Permits	\$ 200.00
	<b>8.6.2.8.</b>	Permit redraw/revision (no site visit and no flow increase), All Permits	\$ 100.00
	<b>8.6.2.9.</b>	Repair permits (includes evaluation and all permits)	\$ -
	<b>8.6.2.10.</b>	Revisit (futile initial trip on all paid on site service request)	\$ 50.00
<b>8.6.3.</b>		Well Permits and Water Sampling	
	<b>8.6.3.1.</b>	Bacterial (total coliform and fecal coliform)	\$ 35.00
	<b>8.6.3.2.</b>	Inorganic water sample	\$ 35.00
	<b>8.6.3.3.</b>	Nitrate/Nitrite Sample	\$ 35.00
	<b>8.6.3.4.</b>	Pesticide Water Sample	\$ 50.00
	<b>8.6.3.5.</b>	Petroleum Water Sample	\$ 50.00
	<b>8.6.3.6.</b>	Re-sample (bacterial only)	\$ 20.00

	<b>8.6.3.7.</b>	Well permit	\$ 350.00
	<b>8.6.3.8.</b>	Well abandonment permit	\$ -
	<b>8.6.3.9.</b>	Well repair permit	\$ -
<b>8.6.4.</b>		Miscellaneous Fees	
	<b>8.6.4.1.</b>	Food Service Plan Review (new)	\$ 250.00
	<b>8.6.4.2.</b>	Food Service Plan Review (remodel)	\$ 200.00
	<b>8.6.4.3.</b>	Swimming Pool Plan Review	\$ 300.00
	<b>8.6.4.4.</b>	Annual Swimming Pool Permit	\$ 200.00
	<b>8.6.4.5.</b>	Annual Swimming Pool Permit (per pool for each additional pool at same site)	\$ 75.00
	<b>8.6.4.6.</b>	Extra pre-opening pool visit (when pool is not ready on initial visit	\$ 50.00
	<b>8.6.4.7.</b>	Annual Tattoo Permit	\$ 250.00
	<b>8.6.4.8.</b>	Temporary Food Establishment Permit	\$ 75.00
	<b>8.6.4.9.</b>	System Review Re-Inspection	\$ 50.00
	<b>8.6.4.10.</b>	Serve Safe Course	\$ 125.00
	<b>8.6.4.11.</b>	Serve Safe (Retest only)	\$ 75.00
<b>8.7.</b>		Home Health Charges	
	<b>8.7.1.</b>	Skilled nursing visit	\$ 135.00
	<b>8.7.2.</b>	Physical therapy visit	\$ 140.00
	<b>8.7.3.</b>	Speech therapy visit	\$ 150.00
	<b>8.7.4.</b>	Occupation therapy visit	\$ 140.00
	<b>8.7.5.</b>	Medical Social Worker visit	\$ 200.00
	<b>8.7.6.</b>	Home Health Aide visit	\$ 70.00

**9. Human Resources Management**

<b>9.1.</b>	Employee ID card replacement (each)	
	<b>9.1.1.</b>	Lost or stolen \$ 10.00
	<b>9.1.2.</b>	Normal wear & tear Free
	<b>9.1.4.</b>	Name change or position change Free
<b>9.2.</b>	Photocopy (black & white) (per page)	\$ 0.10
<b>9.3.</b>	IDs for outside entities/municipalities (initial setup)	\$ 25.00
<b>9.4.</b>	ID card replacements (for outside entities/municipalities) (each)	\$ 10.00
<b>9.5.</b>	Key card replacement	
	<b>9.5.1.</b>	Lost or stolen \$ 6.00
	<b>9.5.2.</b>	Normal wear & tear Free

**10. Library**

<b>10.1.</b>	Fines		
	<b>10.1.1.</b>	Overdue book (per day - \$3.00 maximum)	\$ 0.05
<b>10.2.</b>	Photocopy (black & white) (per page)		\$ 0.10
<b>10.3.</b>	Microfilm printer copying (new plain paper machine)		\$ 0.25
<b>10.4.</b>	Fax machine use (per page)		\$ 0.50
<b>10.5.</b>	Computer printouts (per page)		\$ 0.15
<b>10.6.</b>	Computer printouts w/ color photo (per page)		\$ 1.00

**11. Register of Deeds**

<b>11.1.</b>	Instruments in General		
	<b>11.1.1.</b>	First 15 pages	\$ 26.00
	<b>11.1.2.</b>	All additional pages (per page)	\$ 4.00
	<b>11.1.3.</b>	Non-standard forms	\$ 25.00
<b>11.2.</b>	Multiple Instruments		
	<b>11.2.1.</b>	For each additional instrument	\$ 10.00
<b>11.3.</b>	Deeds of Trust - Mortgages		
	<b>11.3.1.</b>	First 15 pages	\$ 56.00
	<b>11.3.2.</b>	All additional pages (per page)	\$ 4.00
<b>11.4.</b>	Each additional index reference on assignments		\$ 10.00
<b>11.5.</b>	More than 20 distinct parties additional fee for each party		\$ 2.00
<b>11.6.</b>	Satisfactions		N/C
<b>11.7.</b>	Certified Copies		
	<b>11.7.1.</b>	Certifying Recorded Instruments	
		<b>11.7.1.1.</b> First Page	\$ 5.00
		<b>11.7.1.2.</b> All additional pages (per page)	\$ 2.00
<b>11.8.</b>	Plats		
	<b>11.8.1.</b>	Plats - recording fee	\$ 21.00 each
	<b>11.8.2.</b>	Certified copy	\$ 5.00
	<b>11.8.3.</b>	Plat copies (per map)	\$ 1.00
<b>11.9.</b>	Photocopy		
	<b>11.9.1.</b>	Photocopy (black & white) (per page)	\$ 0.25
	<b>11.9.2.</b>	Scanned image (per page)	\$ 0.25
	<b>11.9.3.</b>	Tax maps (GISmo)	
		<b>11.9.3.1.</b> Query results (per page)	\$ 0.25



	11.9.3.2.	8.5" x 11" w/o photo	\$	1.50	
	11.9.3.3.	8.5" x 11" w/ photo	\$	3.00	
11.10.		Fax copy (per page)	\$	0.50	
11.11.		Marriage Licenses (Issuance)	\$	60.00	(includes \$35 state fee)
	11.11.1.	Marriage License Certificate - regular or wallet	\$	10.00	
	11.11.2.	Delayed Certificate w/ one (1) certified copy	\$	20.00	
	11.11.3.	Correction after Issuance w/ one (1) certified copy	\$	10.00	
11.12.		Right of Way Plans (first page)	\$	21.00	\$5.00 per additional page
11.13.		Birth Certificates (certified)	\$	10.00	
	11.13.1.	Registration of birth after 1 year or more years after birth (in-county) includes one (1) certified copy	\$	20.00	
	11.13.2.	Registration of birth after 1 year or more years (out-of-county)	\$	10.00	
	11.13.3.	Amendments of birth records	\$	10.00	
	11.13.4.	Legitimations	\$	10.00	
11.14.		Death Certificates	\$	10.00	
	11.14.1.	Amendments of death records	\$	10.00	
11.15.		Notary Public			
	11.15.1.	Oath administered	\$	10.00	
	11.15.2.	Verification of Commission	\$	5.00	
11.16.		Excise Stamp Tax (on each \$500.00 or fractional part of the consideration of value of the interest or property conveyed)	\$	1.00	
11.17.		Uniform commercial code			
	11.17.1.	1 - 2 pages	\$	38.00	
	11.17.2.	3 - 10 pages	\$	45.00	
	11.17.3.	each additional page over 10 pages	\$	2.00	
11.18.		Removal of Graves Certificate			
	11.18.1.	First page	\$	26.00	
	11.18.2.	each additional page	\$	4.00	
11.19.		Military Service Record		N/C	
11.20.		VRAS - Statewide Automated System			
	11.20.1.	Birth Abstract (births 1971+)	\$	14.00	

## 12. Sheriff and Jail

12.1.	Fingerprint cards (per card)	\$	10.00
12.2.	Incident reports (per report)	\$	2.00
12.3.	Notary fee (per instrument)	\$	5.00

12.4.	Photocopy (per page)	\$	0.10
12.5.	Sick call	\$	10.00
12.6.	Confinement and board for out-of-county inmates (per day)	\$	40.00
12.7.	Pre-confinement (per day)	\$	18.00
12.8.	Jail sentence confinement (per day)	\$	18.00
12.9.	Confinement for 24 hours	\$	5.00
12.10.	Gun permit	\$	5.00
12.11.	Serve civil papers	\$	30.00
12.12.	Concealed handgun permit	\$	90.00
12.13.	Concealed handgun permit renewal	\$	75.00
12.14.	Duplicate concealed handgun permit	\$	15.00
<b>13. <u>Social Services</u></b>			
13.1.	Photocopy (per page)	\$	0.10
<b>14. <u>Solid Waste</u></b>			
14.1.	Tipping Fees per ton		
14.1.1.	Industrial and Commercial Waste (MSW) (transfer station)	\$	51.62
14.1.2.	Construction and demolition waste (landfill)	\$	49.00
14.1.3.	Yard Waste	\$	49.00
14.1.4.	Incorporated municipalities (MSW) within Halifax County (transfer station)	\$	51.62
14.1.5.	Bulk construction and demolition waste (landfill) from a single site source - 2,500+ tons within a 60 calendar day timeframe	\$	32.67
14.1.6.	Disposal of Animals	\$	47.00
14.2.	Residential collection and disposal fee	\$	155.86
14.3.	Availability fee (per habitable dwelling)	\$	47.15
14.3.1.	Availability fee T.S.	\$	12.10
<b>15. <u>Tax Department</u></b>			
15.1.	Photocopy (per page)	\$	0.10
15.2.	Fax copy (per page)	\$	0.50
15.3.	Computer printouts		
15.3.1.	Screen display printout (per page)	\$	0.25
15.3.2.	Report, no database query required (per page)	\$	0.25
15.3.3.	Report with database query (with \$20 setup fee added to per page cost)	\$	0.25
15.4.	Property cards (per card)	\$	0.50

<b>15.5.</b>	Index maps	\$	0.50
<b>15.5.1.</b>	27" x 42" wall map	\$	5.00
<b>15.5.2.</b>	36" x 56" wall map	\$	8.00
<b>15.5.3.</b>	Map book	\$	36.00
<b>15.6.</b>	Property maps & associated data		
<b>15.6.1.</b>	GISmo query results (per page)	\$	0.25
<b>15.6.2.</b>	8.5" x 11" without photo	\$	1.50
<b>15.6.3.</b>	8.5" x 11" with photo	\$	3.00
<b>15.6.4.</b>	11" x 17" without photo	\$	3.00
<b>15.6.5.</b>	11" x 17" with photo	\$	6.00
<b>15.6.6.</b>	17" x 22" without photo	\$	4.00
<b>15.6.7.</b>	17" x 22" with photo	\$	8.00
<b>15.6.8.</b>	22" x 34" without photo	\$	6.00
<b>15.6.9.</b>	22" x 34" with photo	\$	12.00
<b>15.6.10.</b>	34" x 44" without photo	\$	8.00
<b>15.6.11.</b>	34" x 44" with photo	\$	16.00
<b>15.6.12.</b>	Custom plot creation & design (per hour)	\$	25.00
<b>15.7.</b>	Digital Data		
<b>15.7.1.</b>	Specialized programming		
<b>15.7.1.1.</b>	First megabyte of data	\$	12.50
<b>15.7.1.2.</b>	Each additional megabyte	\$	4.00
<b>15.7.2.</b>	Media		
<b>15.7.2.1.</b>	Compact disk (each)	\$	1.00
<b>15.7.2.2.</b>	DVD (each)	\$	1.50
<b>15.8.</b>	Map/Plot, Floppy, CD and Postage		
<b>15.8.1.</b>	1 map/plot, floppy, CD	\$	1.25
<b>15.8.2.</b>	2 maps/plots, floppys, CDs	\$	1.50
<b>15.8.3.</b>	3 maps/plots, floppys, CDs	\$	1.75
<b>15.8.4.</b>	4 maps/plots, floppys, CDs	\$	2.00
<b>15.8.5.</b>	5 maps/plots, floppys, CDs	\$	2.25
<b>15.8.6.</b>	6 maps/plots, floppys, CDs	\$	2.50
<b>15.8.7.</b>	Each additional, add	\$	0.25

## **16. Water Utilities**

- |                |  |
|----------------|--|
| <b>16.1.</b>   | Rate Schedule  |
| <b>16.1.1.</b> | Residential rates for water service in the County shall be as follows: |

	16.1.1.1.	Zero gallons (availability fee)	\$	27.68	
	16.1.1.2.	0 plus gallon (rate per 1000 gallons)	\$	3.23	
16.1.2.		Commercial rates for water service in the County shall be as follows:			
	16.1.2.1.	Zero gallons (availability fee)	\$	27.68	
	16.1.2.2.	0 plus gallon (rate per 1000 gallons)	\$	3.28	
16.1.3.		Residential and commercial rates for sewer service in the Weldon, Roanoke Rapids Sanitary District, Littleton, Scotland Neck, and Halifax service areas on County Water, shall be as follows:			Weldon's, Roanoke Rapids Sanitary District's, Littleton's, Scotland Neck's, and Halifax's rates charged to the County as amended plus 35%
16.1.4.		Bulk rates for water service in the County shall be as follows:			
	16.1.4.1.	0 plus gallons (rate per 1000 gallons)	\$	3.13	
16.1.5.		Institutional rates for water service in the County shall be as follows:			
	16.1.5.1.	0 plus gallons (rate per 1000 gallons)	\$	4.36	
16.1.6.		Prison rates for water service in the County shall be as follows:			
	16.1.6.1.	0 plus gallons (rate per 1000 gallons)	\$	8.20	
16.2.		Tap Fees			
	16.2.1.	During new project construction, the cost for a 5/8" meter tap shall be \$50. if a citizen requires a larger tap, the cost shall be the normal tap fee less the same amount saved for a 5/8" water tap. After completion of construction, regular tap fees will be enforced			
		<u>Size</u>		<u>Fee</u>	
	16.2.1.1.	5/8" water tap	\$	675.00	
	16.2.1.2.	1" water tap	\$	725.00	
	16.2.1.3.	2" water tap	\$	1,975.00	
	16.2.1.4.	4" sewer tap (short)	\$	450.00	
	16.2.1.5.	4" sewer tap (long)	\$	650.00	
16.2.2.		Water and sewer taps will be made for the approved tap fee, provided it can be completed with the Water Department's manpower and equipment. If special equipment and/or manpower is required, the cost to the customer will be the actual contracted cost of the tap			
16.3.		Wastewater Pre-Treatment Plant			
	16.3.1.	Wastewater pre-treatment & disposal			cost based on actual expenses incurred
	16.3.2.	Late payment penalty	\$	100.00	if payment is received after due date
	16.3.3.	Reconnection charge	\$	500.00	
16.4.		Other Fees			
	16.4.1.	Security deposit	\$	75.00	
	16.4.2.	Late payment penalty (charged 15 days after bill is due)	\$	10.00	

<b>16.4.</b>	<b>16.4.3.</b>	Disconnection penalty (charged 25 days after bill is due)	\$ 25.00
	<b>16.4.4.</b>	Temporary cut-off fee	\$ 30.00
	<b>16.4.5.</b>	Return check penalty	\$ 30.00
	<b>16.4.6.</b>	Special meter reading fee	\$ 10.00
	<b>16.4.7.</b>	Damage to County property	cost + 25%
	<b>16.4.8.</b>	Move water service (owner's request)	cost + 25%
	<b>16.4.9.</b>	Service charge (new accounts & transfers)	\$ 50.00
	<b>16.4.10.</b>	Meter tampering fee	
	<b>16.4.10.1.</b>	First offense	\$ 75.00
	<b>16.4.10.2.</b>	Second offense or multiple in one calendar year	\$ 150.00
<b>16.5.</b>	Fees shall be assessed to users for wastewater discharges into Public Owned Treatment Works (POTW) as follows:		
	<b>16.5.1.</b>	A Sewer Capacity charge for all users shall be a one time charge of \$3.50 per gallon, per day, of wastewater discharged into the wastewater collection system. Since each individual site is unique, the amount of discharge per day shall be established by using the "Daily Flow for Design" established by the North Carolina Department of Environment, Health, and Natural Resources, Division of Environmental Health as follows:	
		<b><u>Type of Establishment</u></b>	<b><u>Daily Flow for Design</u></b>
	<b>16.5.1.1.</b>	Airports (also Roanoke Rapids stations, Bus Terminals - not including food service facilities)	5 gallons / passenger
	<b>16.5.1.2.</b>	Barber shops	50 gallons / chair
	<b>16.5.1.3.</b>	Bars, Cocktail Lounges (not including food service facilities)	20 gallons / seat
	<b>16.5.1.4.</b>	Beauty Shops (style shops)	125 gallons / chair
	<b>16.5.1.5.</b>	Bowling lanes	50 gallons / lane
	<b>16.5.1.6.</b>	Businesses (other than those listed in this table)	25 gallons / employee
	<b>16.5.1.7.</b>	Camps (construction or work camps)	60 gallons / person
	<b>16.5.1.8.</b>	Camps (summer camps)	60 gallons / person
	<b>16.5.1.9.</b>	Campgrounds	100 gallons / campsite
	<b>16.5.1.10.</b>	Recreational Vehicle Park	120 gallons / space
	<b>16.5.1.11.</b>	Churches (not including a kitchen)	3 gallons / seat
	<b>16.5.1.12.</b>	Churches (including a kitchen)	5 gallons / seat
	<b>16.5.1.13.</b>	Country clubs	20 gallons / member
	<b>16.5.1.14.</b>	Daycare facilities	15 gallons / person
	<b>16.5.1.15.</b>	Factories (exclusive of industrial waste)	25 gallons / person / shift

16.5.1.15.1.	Add for showers	10 gallons / person / shift
16.5.1.16.	Food service facilities (restaurants)	40 gallons / seat
16.5.1.17.	24-Hour restaurants	75 gallons / seat
16.5.1.18.	Hospitals	300 gallons / bed
16.5.1.19.	Marinas	10 gallons / boat slip
16.5.1.19.1.	with showers	30 gallons / boat slip
16.5.1.20.	Meat markets	
16.5.1.20.1.	per 100 sq ft of market floor space	50 gallons
16.5.1.20.2.	add per employee	25 gallons
16.5.1.21.	Motels / Hotels	120 gallons / room
16.5.1.21.1.	with cooking facilities in room	175 gallons / room
16.5.1.22.	Offices (per shift)	25 gallons / employee
16.5.1.23.	Residential dwellings	240 gallons
16.5.1.24.	Rest homes & Nursing homes	
16.5.1.24.1.	with laundry	120 gallons / bed
16.5.1.24.2.	without laundry	60 gallons / bed
16.5.1.25.	Schools - day schools	
16.5.1.25.1.	with cafeteria, gym & showers	15 gallons / student
16.5.1.25.2.	with cafeteria only	12 gallons / student
16.5.1.25.3.	with neither cafeteria nor shower	10 gallons / student
16.5.1.26.	Schools - boarding schools	60 gallons / student
16.5.1.27.	Service stations	250 gallons / restroom
16.5.1.28.	Service stations - 24 hours	325 gallons / restroom
16.5.1.29.	Stores, shopping centers, & malls (exclusive of food service and meat markets)	120 gallons / 1000 sq ft of retail sales area
16.5.1.30.	Stadium, auditorium, theater, Drive-In	5 gallons / seat space
16.5.1.31.	Swimming pools, spas & bathhouses	10 gallons / person

## 17. Zoning

17.1.	Conditional use application	\$ 175.00
17.2.	Halifax County Zoning Ordinance (each)	\$ 18.00
17.3.	Mobile home park regulations (each)	\$ 6.00
17.4.	Halifax County road name grid (each)	\$ 1.50
17.5.	Subdivision ordinance	\$ 15.00
17.6.	Watershed ordinance	\$ 15.00
17.7.	Map - 18" x 24"	\$ 6.00

<b>17.8.</b>	Map - 36" x 60"	\$	9.00	
<b>17.9.</b>	Zoning permits			
	<b>17.9.1.</b> Certificate of Zoning Compliance	\$	25.00	
	<b>17.9.2.</b> update zoning	\$	10.00	
<b>17.10.</b>	Major subdivision project	\$	150.00	+ \$10 per lot
<b>17.11.</b>	Variances and deviations	\$	175.00	
<b>17.12.</b>	Rezoning application	\$	175.00	
<b>17.13.</b>	Specialty maps - cost determined by time and materials	\$	30.00	
<b>17.14.</b>	Comprehensive development plan	\$	30.00	
<b>17.15.</b>	Photocopy (per page)	\$	0.10	

# North Carolina 911 Board Grant Application

## General Information

**Project Title**

Hoke County Emergency Telephone System Upgrade

**Grant Fiscal Year - 2017**

**Project Director**

Jimmy Stewart

**Project Contact**

Jimmy Stewart

**Project Contact Title**

Director-Emergency Communications

**Address**

Hoke County Emergency Communications

P.O. Box 176

Raeford, NC 28376

**Phone**

910-904-2973

**Email**

jstewart@hokecounty.org

*Three types of grants are available, as described below. In the box following these descriptions, please select the Grant Type which most appropriately fits your request.*

- **Consolidation** - A consolidation project involves combining one or more PSAPs with a primary PSAP with an integrated management structure that serves the same populations and jurisdictions previously served by offering grant funding for both PSAP costs authorized under G.S. 143B-1406(e) and costs not authorized under G.S. 143B-1406(e) to include construction costs.
- **Individual PSAP Enhancement/Replacement** - the relocation costs of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.
- **Regional Initiative Enhancement/Replacement** - Regional initiatives are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such initiatives comprise projects involving two or more primary PSAPs or a primary PSAP with approved secondary PSAPs. Costs of relocation of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.



**Grant Type**    *Individual PSAP Enhancement/Replacement*

**PSAP Name**    *Hoke County Emergency Communications*

1.    ***Has the Revenue/Expenditure Report for FY15 been completed and approved by the NC 911 Board Fiscal staff for the applicant PSAP?***

YES

2.    ***Has the applicant PSAP submitted a plan and secured the means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP (backup plan)?***

YES

3.    ***If the answer to #2 above is yes, does the PSAP have the means to implement the plan before 7/1/16?***

YES

4.    ***If plan implementation will not occur before July 1, 2016, has an extension been requested?***

[Select]

-----

# Project Description

***Required for all grant types, this should be a thorough, concise, and complete description of the proposed project.***

## **5. Please outline project goals and objectives.**

The County of Hoke Department of Emergency Communications is seeking to upgrade its 911 Telephone System. In this process, we will upgrade the telephone system in the Main and Backup Communications Centers. This goal of this grant request is to convert the 911 Telephone System to a VOIP-based hosted solution while bettering our Backup Center capabilities. This Grant is being sought to fund eligible items above the amount of current Emergency Telephone System Fund fund balance.

To accomplish these goals, we must accomplish the following objectives:

1. Upgrade the 911 telephone systems in the Main and Backup Centers to a VOIP-based hosted solution.
2. Create a constant telephone system connection to the Backup Communications Center so that both Centers are fully functional at all times. This will eliminate having to manually switch the telephone system and calling the Telephone Company's Network Operations Center (NOC) in case the need arises to revert to the Backup Center.
3. To prepare Hoke County for the advent of the North Carolina State ESInet and allow connection to the State ESInet when it becomes functional in 2018.

Currently, the Hoke County Emergency Communications Center utilizes legacy telephone systems in the Main and Backup Communications Centers.

## **6. Please provide an implementation strategy and work plan, including a timeline.**

At present CenturyLink has issues with timelines due to their equipment supplier having a huge influx of orders for CPE. We will anticipate an 8 month lead time for the delivery and installation of this equipment. At the time of installation, we will upgrade the Backup Center first to give the equipment "burn-in" time. After testing and acceptance, we will move operations to the Backup Center while the system is being installed in the Main Center. After the burn-in period and acceptance testing, operations will be moved back to the Main Center.

Within 60 days of Grant notification

1. Submit upgrade proposal to County Attorney for Review.
2. After receiving Attorney Review, if no changes, submit to Clerk of the Board for placement on the Board of Commissioner's Agenda.
3. After approval, have contract signed by Chairman of the Board of Commissioners and return to Vendor.

Within 12 months of Grant notification

1. Installation of equipment per contract.
2. Testing of equipment under load conditions.
3. Certify operation of equipment.

When this timeline is confirmed by Intrado/CenturyLink, the NC 911 Board will be notified as to exact dates.

**7. Please identify the interface or compatibility between existing equipment and/or software and that which you intend to purchase.**

This is an upgrade to our present system. As such, there are no compatibility or interface issues. As the front end equipment is the same, there will be no need to train on new equipment.

# Statement of Need

***Required for all grant types, this statement should reference the relationship of the grant project to NCGS §143b-1407(b) and the current funding priorities established by the Grant Policy and Procedures and include evidence of any financial need.***

## **8. Please indicate how your PSAP or group of PSAPs meets the statutory criterion of serving a rural or high cost area.**

The Hoke County Emergency Communications Center serves all of Raeford and Hoke County. Hoke County is a designated Tier 2 County by the North Carolina Department of Commerce. We are bordered by 2 Tier 1 Counties, Scotland and Robeson; 1 Tier 2 County, Cumberland; and 1 tier 3 County, Moore. Hoke County is ranked as the 36<sup>th</sup> economically distressed County in North Carolina and has a 5 year poverty rate of 22.9%. Hoke County's population is 43.2% rural. Hoke County has a 7.73% unemployment rate ranking 16th in the State. Hoke County's Adjusted Rank is 49<sup>th</sup>.

## **9. Please identify funding priorities, their impact on operational services, and consequences of not receiving funding.**

Through the difficult upcoming budget year, the fiscal priorities are to retain Telecommunicators and to increase the number of Telecommunicators, if approved; To maintain equipment and begin the process of becoming Next Generation 911 capable and the maintenance and upgrade of the Backup 911 Center.

In the past fiscal year, a single unit UPS system was added to the Backup Center to power the Center. Additional channels were added to the radio system. Also the Main Center consoles were professionally cleaned and serviced as was the Backup Center the previous fiscal year.

The consequence of not receiving funding through this grant is that a Funding Reconsideration will have to be applied for. Without the Grant or a Funding Reconsideration, we will not be able to purchase the equipment unless we enter into a lease purchase program which will cost more money.

## **10. Please provide a copy of your PSAP's long-term or strategic technology plan and identify how the project fits within it.**

The Communications Center replaces all equipment at its manufacturer's recommendation. This may be end-of-life for some systems or a 5 year cycle as in CAD computers. All systems are monitored for performance by the IT Department and may be replaced due to uncorrectable problems, storage issues, etc. Recording systems are usually replaced/upgraded at the manufacturer's recommendation. We will also utilize the NC 911 Board's recommended replacement schedule when it is published. The Telephone system is not at end of life until 2018, however it is a legacy system and will not accommodate a hosted solution or connection to the State ESInet.

## **11. Please identify the likelihood of completing the project utilizing your 911 fund balance and the percentage of grant funding being requested in relation to total project costs.**

While it would possibly place a strain on the Emergency Telephone System Fund, we would enter into a lease-purchase agreement for the equipment whose cost is above the current fund balance. The Emergency Telephone System Fund is the only other source of funding for the eligible equipment. Our current fund balance ending June 30,

2015 is \$71,855.02. Our projected fund balance for FY 2015-16 is \$45,812.00. This is a total fund balance of \$117,667.02 going into the next fiscal year. Expenses will increase in FY 2016-17 as we will add an additional console to the Backup Center. We will also be adding enunciator panels for the UPS systems in the Backup and Main Centers as well as UPS maintenance contracts. We will also realize a net increase of \$38,558/year in additional expenses reflecting the difference in the legacy system database and maintenance costs and the hosted system costs. We would like to retain \$66,665.00 in fund balance, thereby committing \$51,002.00 of the Fund Balance to the project. This is only to off set any unforeseen problems and to also assist with maintaining the backup Center. We are requesting \$100,000.00 in the Project Grant. This is a request of 66.2% of the total eligible equipment costs. We can adjust the Grant amount should the NC 911 Board deem that appropriate.

## ***Regional Initiative Enhancement/Replacement Project***

***Required for all Regional Initiative Enhancement/Replacement project types. Regional initiative enhancement/replacement projects are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such projects may involve two or more primary PSAPs.***

**12. What is the relationship of participating PSAPs to the initiative? Provide MOUs between PSAPs identifying each participant PSAP's responsibilities to the project.**

n/a

**13. Identify intended collaborative efforts between participating PSAPs.**

n/a

**14. Identify how resource sharing will take place.**

n/a

**15. Indicate how the initiative impacts the operational or strategic plans of the participating agencies.**

n/a

***NOTE: The following section on “Consolidation Project Plan” is ONLY required if your type of grant is a “Consolidation”. If your project IS NOT a Consolidation, proceed to question # 23 to complete the grant application.***

**16. Indicate how a consolidation would take place and improve service**

Click or tap here to enter text.

**17. Indicate how the consolidated PSAP should be organized and staffed**

Click or tap here to enter text.

**18. Indicate what services the consolidated PSAP should perform**

Click or tap here to enter text.

**19. Indicate how consolidated PSAP policies should be made and changed**

Click or tap here to enter text.

**20. Indicate how the consolidated PSAP should be funded exclusive of grant funding**

Click or tap here to enter text.

**21. Indicate what changes or improvements should be made to inter-communications among the local governments participating in the consolidation in order to better support operations.**

Click or tap here to enter text.

**22. Discuss sustainability of the consolidation project during the proposed term of the project, and for the foreseeable future.**

Click or tap here to enter text.



## FINANCIAL DATA

### **23. Current 911 Fund Balance**

FY 2014-15 \$71,855.02    Estimated FY 2015-16 \$45,812.00

### **24. Amount Requested**

\$100,000.00

### **25. Total Project Cost**

\$151,002.00



## Budget and Budget Narrative

***A budget and budget narrative must be supplied for all types of projects, as well as a copy of the applicant agency's approved FY 2016 PSAP budget.***

### **26. List planned expenditures**

911 Telephone System Upgrade to VOIP Hosted Solution	\$97,729.00
Establish Connectivity between Main and Backup Centers	\$53,273.00
 TOTAL Request	 \$151,002.00

### **27. Provide a budget narrative that briefly explains the reason for each requested budget item.**

911 Telephone System Upgrade to VOIP Hosted Solution-this will upgrade current legacy equipment of the Main and Backup Communications Centers to a VOIP hosted system. This will allow for an IP based system that will connect to the NC ESInet when it is established.

Establish Connectivity between Main and Backup Centers-Establishes a T-1 link between the Centers so that both Centers' telephone systems are live 24/7. At present, when the Backup Center is activated, switches in the Main Center have to be activated and the CenturyLink Network Operations Center (NOC) has to be called to enable the switch over first to our interim Center to answer calls until personnel arrive at the Backup Center, then another call to route them to the Backup Center. With a 24/7 connection, personnel can answer calls at both Centers 24/7. The only delay being if there is not time to get someone to the Backup Center before leaving the Main Center or if service to the Main Center is lost.

### **28. State how you will follow applicable procurement law, rules, and policies.**

All purchases by The County of Hoke by action of the Hoke County Board of Commissioners are subject to the Hoke County Procurement and Purchasing Policy. Our Finance Office has advised us that since this is an upgrade of a present system, a quote from the present vendor will suffice. The contract will be submitted to the County Attorney for review and then submitted to the Hoke County Board of Commissioners for approval and award.

### **29. If the project will have ongoing expenses, such as monthly recurring charges, describe plans and specific sources for future/long-term funding and demonstrate how the project will be sustained in the future without additional 911 Grant Program funding.**

The additional costs are those associated with maintaining the connection between the Centers. The legacy system recurring costs, e.g. monthly database charges and yearly maintenance charges are replaced by hosted solution charges and Intrado's costs for providing Text to 911. The estimated additional costs per year are \$38,558.00. It is hoped that this can be sustained by the increase in funding that will be realized by the 5 year average in costs. If not, a funding consideration will have to be applied for.

## Evaluation

***All applications must include evaluation information. The final report shall include an evaluation demonstrating that the equipment or services funded by the grant have been purchased, installed/implemented, and are performing as expected.***

**30. Explain how your evaluation will measure the achievement of the goals and objectives identified in the Project Description with a timeline for meeting short, intermediate, and long term goals.**

The overall goal is the installation of a hosted VOIP system at the Main and Backup Communication Centers with both Centers being active 24/7. Any timetable is dependent on the availability of the system components from Intrado due to the backlog they are experiencing.

Short Term Goals (Within 60 days of Grant notification)

1. Submit upgrade proposal to County Attorney for Review.
2. After receiving Attorney Review, if no changes, submit to Clerk of the Board for placement on the Board of Commissioner's Agenda.
3. After approval, have contract signed by Chairman of the Board of Commissioners and return to Vendor.

Intermediate Goals (Within 12 months of Grant notification)

1. Installation of equipment per contract.
2. Testing of equipment under load conditions.
3. Certify operation of equipment.
4. Identify any needed enhancements/updates.

Long Term Goals (12 months-36 months)

1. Monitor system for functionality.
2. Prepare system for connections to State ESInet.

As the Project is hopefully conducted within the Fiscal Year, the scope of the Project is in and of itself a short term project but with long term implications. While the installation of equipment only takes a few months, this equipment will be in use for years to come. The long term evaluation will come in the equipment's usefulness and reliability which will be constantly monitored. The timeline is totally dependent on Intrado's ability to deliver and install equipment due to their present backlog. Once this timeline is established as firm, it will be reported to the NC 911 Board.

**31. Describe how evaluations will be conducted, including performance parameters which must be met in order to meet acceptance criteria.**

Evaluations will be conducted by The Director of Emergency Communications, The Director of Information Technology, and the County Maintenance Director. Each brings a background of design and construction. The individual vendor will also participate in progress evaluations.

Acceptance criteria will be based on industry standards and will be monitored weekly. A full load test will be conducted after all components are installed to ensure performance under working conditions.

The Director of Emergency Communications will write the evaluations weekly after the beginning of installation until the final acceptance.

Parameters include:

1. On time delivery.
2. Delivery is complete with all parts.
3. Vendor reports on the agreed-to day.
4. Vendor verifies delivery is complete if delivered third-party.
5. Assembly and installation are conducted per agreed-on schedule.
6. At final assembly-equipment works correctly and passes internal testing.
7. Equipment passes 1 week load test.
8. Equipment passes 30 day acceptance test.
9. Conformity to the agreed upon Statement of Work.
10. Delivery of all system manuals and As-Built documents.

### **32. Identify how data will be collected and presented**

Written reports shall be made by the Director of Emergency Communications based on the Statement of Work from each vendor. The individuals named above shall work with the Director in evaluating each equipment installation according to the Statement of Work and the parameters set forth.

Data shall be collected from each evaluator and consolidated into one electronic report by the Director. The final report at each reporting period shall be sent to each reviewing member for review and final approval before submission to the NC 911 Board.

Each report shall contain the overall progress of each item of equipment as well as the overall progress of the Grant Project.



## CenturyLink

Customer Legal Name: E911 HOKE COUNTY  
Customer Billing Name: E911 HOKE COUNTY  
423 E CENTRAL AVE HOKE COUNTY  
RAEFORD  
NC , 28376-2951  
Quote-Build #: 15-028281-NIBS

Valid Until April 2, 2016

### Description of Work to be Performed:

Quote is to provide Intrado A911 service to Hoke county for the primary and backup center. Included are the one time charges for the


Equipment pricing shown is based upon direct sale accompanied by new Centurion Maintenance contract on same.

Part Number	Description	Quantity	Unit Price	Extended Price
000-000	A9-1-1 Routing and ALI	1	\$ 18,987.34	\$ 18,987.34
000-000	I3 Protocol Support	1	\$ -	\$ -
000-000	Ports	1	\$ 5,316.46	\$ 5,316.46
-	-	-	\$ -	\$ -
000-000	Redundant T1 Connectivity to LNGs	1	\$ -	\$ -
000-000	Redundant IP Connectivity to PSAP	1	\$ -	\$ -
-	-	-	\$ -	\$ -
000-000	Centurylink Project Management	1	\$ 12,658.23	\$ 12,658.23
000-000	Miscellaneous Cables	1	\$ 632.91	\$ 632.91
-	-	-	\$ -	\$ -
-	-	-	\$ -	\$ -
Parts .....				\$ 37,594.94
Miscellaneous .....				\$ -
Shipping .....				\$ 742.50
Parts Subtotal .....				\$ 38,337.44
Labor .....				\$ 14,935.00
Vendor Support (See Vsupport Tab for Details) .....				\$ -
TOTAL PRICE .....				\$ 53,272.44

All Products listed on this Quote are governed by the Standard Terms and Conditions for Communications Services and the Equipment Sales Product Annex, both posted to [http://about.centurylink.com/legal/rates\\_conditions.html](http://about.centurylink.com/legal/rates_conditions.html)

-	-	-	NRR	-	\$	-	\$	-	\$	-
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## Price Sheet Vendor Support

Pricing is Valid Until:

April 2, 2016

Description of Work  
to be Performed:

Customer: E911 HOKE COUNTY

423 E CENTRAL AVE HOKE COUNTY

RAEFORD

NC

28376-2951

Quote-Build#: 15-028281-NIBS

Equipment pricing shown is based upon direct sale accompanied by new Centurion Maintenance contract on same.

Part Number	Description	Quantity	Type	(Only if MRR)		Sale Price	
				Term Years	MRR	Unit Price	Extended Price
000-000	A9-1-1 Routing and ALI	12	MRR	1	\$ 2,840.48	\$ -	\$ -
000-000	I3 Protocol Support	12	MRR	1	\$ 568.01	\$ -	\$ -
000-000	Ports	12	MRR	1	\$ 560.00	\$ -	\$ -
-	-	-	NRR	-	\$ -	\$ -	\$ -
000-000	Redundant T1 Connectivity to LNGs	12	MRR	1	\$ 664.00	\$ -	\$ -
000-000	Redundant IP Connectivity to PSAP	12	MRR	1	\$ 5,333.33	\$ -	\$ -
-	-	-	NRR	-	\$ -	\$ -	\$ -
-	-	-	NRR	-	\$ -	\$ -	\$ -
-	-	-	NRR	-	\$ -	\$ -	\$ -
TOTAL Annual MRR .....					\$ 119,589.91		
TOTAL Term MRR .....					\$ 119,589.91		
TOTAL PRICE NRR .....						\$ -	

All Services listed on this Quote are governed by the Standard Terms and Conditions for Communications Services and the CenturyLink® Centurion Maintenance Service Annex, both posted to [http://about.centurylink.com/legal/rates\\_conditions.html](http://about.centurylink.com/legal/rates_conditions.html).



## Customer Notes / Project Description

Quote is to provide Intrado A911 service to Hoke county for the primary and backup center. Included are the one time charges for the A911 system and installation as well as the monthly recurring fees for a 3 year contract.

Notes



## CenturyLink

Customer Legal Name: E911 HOKE COUNTY  
Customer Billing Name: E911 HOKE COUNTY  
423 E CENTRAL AVE HOKE COUNTY  
RAEFORD  
NC , 28376-2951  
Quote-Build #: 15-028279-NIBS

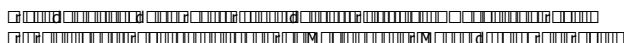
Valid Until April 1, 2016

### Description of Work to be Performed:

This quote is to upgrade the customer to the latest releases from Intrado at the main and backup site. All backroom servers and

Equipment pricing shown is based upon direct sale accompanied by new Centurion Maintenance contract on same.

Part Number	Description	Quantity	Unit Price	Extended Price
-	Hoke County	-	\$	-
-	VIPER	-	\$	-
912890/BB	Media Kit Prebuilt Building Block	1	\$	-
912920/U	ECCP Workstation License Upgrade	5	\$	-
912801/U	CAMA Interface Module (CIM) Upgrade	2	\$	-
912802/U	VIPER Primary Application Server Upgrade	1	\$	-
912803/U	VIPER Primary VoIP Soft Switch Upgrade	1	\$	-
912811/U	Application Server Position Access License Upgrade	6	\$	-
912812/U	PBX Access License Upgrade	5	\$	-
912814/U	Admin Interface Module (AIM) Upgrade	3	\$	-
912822/U	VIPER Secondary Application Secondary Server Upgrade	1	\$	-
912823/U	VIPER Secondary VoIP Soft Switch Upgrade	1	\$	-
-	Power 911	-	\$	-
913100/U	Power 911 Client Access License Upgrade	5	\$	-
913202/U	Power 911 Server Access License Upgrade	5	\$	-
-	IWS Workstations	-	\$	-
914102/BB	IWS Workstation Prebuilt Building Block	5	\$ 2,111.39	\$ 10,556.95
-	Staging	-	\$	-
950852	Front Room Equipment Staging - Per Position	5	\$ 316.46	\$ 1,582.30
-	Installation	-	\$	-
950104	Intrado Professional Services (per Day)	5	\$ 1,898.73	\$ 9,493.65
960575	Living Expense per Day per Person	7	\$ 253.16	\$ 1,772.12
960580	Travel Fee per Person	1	\$ 1,582.28	\$ 1,582.28
-	Project Management	-	\$	-
950510	Project Management Services	1	\$ 1,248.23	\$ 1,248.23
-	ITS Installation	-	\$	-
950104	Intrado Professional Services (per Day)	1	\$ 1,898.73	\$ 1,898.73
960575	Living Expense per Day per Person	3	\$ 253.16	\$ 759.48
960580	Travel Fee per Person	1	\$ 1,582.28	\$ 1,582.28
-	Special System Discount	-	\$	-
DISCOUNT SVC	Service Discount	1	\$ (3,350.00)	\$ (3,350.00)
-	TXT29-1-1	-	\$	-
-	-	-	\$	-
-	-	-	\$	-
ITXTOTF4	TXT29-1-1 Integrated with Power 911 One-time-fee per PSAP- Target	1	\$ 4,113.92	\$ 4,113.92
P10063	ITS Equipment	1	\$ 2,373.42	\$ 2,373.42
-	-	-	\$	-
-	-	-	\$	-
-	-	-	\$	-
-	Network Equipment for Fiber Single Mode connectivity	-	\$	-
912810/R	1921 Integrated Services Router	2	\$ 1,392.41	\$ 2,784.82
950516	Network Provisioning Services per day	2	\$ 1,898.73	\$ 3,797.46
E10622	CARD, INTERFACE, ENHANCED HWIC, 1 PORT, DUAL MODE,	2	\$ 769.62	\$ 1,539.24
Q12487	MODULE, TRANCEIVER, SFP, 1000BASE-LX/LH, for MMF and SMF, 1300-	2	\$ 926.58	\$ 1,853.16
-	-	-	\$	-
-	-	-	\$	-
-	Backup Site	-	\$	-
-	VIPER	-	\$	-
912890/BB	Media Kit Prebuilt Building Block	1	\$	-
912801/U	CAMA Interface Module (CIM) Upgrade	2	\$	-
912802/U	VIPER Primary Application Server Upgrade	1	\$	-
912803/U	VIPER Primary VoIP Soft Switch Upgrade	1	\$	-
912811/U	Application Server Position Access License Upgrade	5	\$	-
912812/U	PBX Access License Upgrade	4	\$	-
912814/U	Admin Interface Module (AIM) Upgrade	3	\$	-
912822/U	VIPER Secondary Application Secondary Server Upgrade	1	\$	-
912823/U	VIPER Secondary VoIP Soft Switch Upgrade	1	\$	-
-	Power 911	-	\$	-
913100/U	Power 911 Client Access License Upgrade	4	\$	-
913202/U	Power 911 Server Access License Upgrade	4	\$	-
-	ePrinter	-	\$	-
917310/U	ePrinter Software Upgrade	1	\$	-
-	IWS Workstations	-	\$	-
914102/BB	IWS Workstation Prebuilt Building Block	4	\$ 2,111.39	\$ 8,445.56
-	Power 911 Hardware	-	\$	-
924143/3	IWS Server - Underlying Software - Windows2008 Migration package	1	\$ 3,240.51	\$ 3,240.51
-	ePrinter Hardware	-	\$	-
914102/EP	E-Printer Desktop	1	\$ 2,170.89	\$ 2,170.89
-	Object Server Hardware	-	\$	-
924143/4	IWS Object Server - Underlying Software - Windows2008 Migration	1	\$ 1,708.86	\$ 1,708.86
-	Staging	-	\$	-
950852	Front Room Equipment Staging - Per Position	4	\$ 316.46	\$ 1,265.84









## Customer Notes / Project Description

This quote is to upgrade the customer to the latest releases from Intrado at the main and backup site. All backroom servers and switches will be upgraded. The workstations at both sites will be replaced with new WIN 7 machines. Customer requested NOT to replace the monitors at this time. TXT2 9-1-1 equipment will also be installed, however the monthly fees will be billed directly from Intrado for the texting. Customer will soon be renewing the current maintenance contract that they have so I have not included any maintenance on this quote. I will add any new equipment from this quote to the maint contract at that time. Also included in this quote are new cisco 1921 routers that will be used to tie the two sites together via an ethernet connection that the customer will be providing.

Notes

# North Carolina 911 Board Grant Application

## General Information

**Project Title** Lincoln County E911 PSAP Construction Project

**Grant Fiscal Year - 2017**

**Project Director** Don Chamblee

**Project Contact** Don Chamblee

**Project Contact Title** Lincoln County Public Works Director

**Address** 115 W Main St

Lincolnton, NC 28092

**Phone** (704)736-8497

**Email** dchamblee@lincolncounty.org

*Three types of grants are available, as described below. In the box following these descriptions, please select the Grant Type which most appropriately fits your request.*

- **Consolidation** - A consolidation project involves combining one or more PSAPs with a primary PSAP with an integrated management structure that serves the same populations and jurisdictions previously served by offering grant funding for both PSAP costs authorized under G.S. 143B-1406(e) and costs not authorized under G.S. 143B-1406(e) to include construction costs.
- **Individual PSAP Enhancement/Replacement** - the relocation costs of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.
- **Regional Initiative Enhancement/Replacement** - Regional initiatives are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such initiatives comprise projects involving two or more primary PSAPs or a primary PSAP with approved secondary PSAPs. Costs of relocation of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.

**Grant Type**    *Individual PSAP Enhancement/Replacement*

**PSAP Name**    *Lincoln County Communications Center*

- 1.    *Has the Revenue/Expenditure Report for FY15 been completed and approved by the NC 911 Board Fiscal staff for the applicant PSAP?***

YES

- 2.    *Has the applicant PSAP submitted a plan and secured the means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP (backup plan)?***

NO

- 3.    *If the answer to #2 above is yes, does the PSAP have the means to implement the plan before 7/1/16?***

[Select]

- 4.    *If plan implementation will not occur before July 1, 2016, has an extension been requested?***

-----  
NO  
  
-----

# Project Description

***Required for all grant types, this should be a thorough, concise, and complete description of the proposed project.***

## **5. Please outline project goals and objectives.**

Lincoln County Communications, the sole PSAP for Lincoln County residents, currently resides within a public access building at the Lincoln County Sheriff's Office and Jail facility. The approximately 1100 sq. ft. PSAP houses all of the consoles(6), offices(2), hardware and equipment(Server/Radio Room w/ office – Telephone Room) to fulfill the various functions required by our PSAP's mission and staff. Lincoln County 9-1-1 currently dispatches 13 fire departments, 2 law enforcement agencies, 1 EMS department, Emergency Management, the Fire Marshal's Office and N.C. Forestry. Lincoln County 9-1-1 also takes calls for service for all county agencies after hours to dispatch on call rotations. Within the jurisdiction of the PSAP are interstates U.S. 321, and NC HWY 16. Lincoln County has a total of 307 square miles, 298 are land and 9.1 are water. When Lincoln County 911 moved to its current facility in December 1999 annual calls for service were approximately 30,000 per fiscal year with 2 off peak 3 on peak Emergency Telecommunicators on staff per shift. Fiscal year 2015 calls for service were 144,780 with a 6 console facility, average of 4 ETCs per shift with a schedule built for 6 on peak. Our PSAP has outgrown the current facility's capabilities for expansion.

Our primary goal is to build a 5805 sq ft facility with capacity to exceed current needs and allow for growth as the county also grows on existing county owned property. We plan a structure that will meet the requirements as set forth in 09 NCAC 06C.02010 Public Safety Answering Point (PSP) Facilities, with perimeter fencing for the 1<sup>st</sup> line of security giving access for Public Records Request, vendor access. Interior fencing will be around the section of the 9-1-1 ETC Room and Generators for secure parking and emergency exiting for all Emergency Telecommunicators (ETCs). Our objective is to build a stand-alone facility with all equipment and personnel securely housed.

## Statement of Need

**Required for all grant types, this statement should reference the relationship of the grant project to NCGS 143b-1407(b) and current funding priorities established by the Grant Policy and Procedures and include evidence of any financial need.**

Lincoln County has been planning to relocate the primary PSAP since the agency was placed under the direct authority of the County Manager. The recession postponed all plans for county offices upgrades for several years. Lincoln County acquired the former Lincoln County Hospital (LCH) building for county offices expansion and planned to integrate the new PSAP construction within this facility. However, upon study, this facility would not meet the requirements as set by NFPA 1221 nor the requirements of 09 NCAC 06C .02010 - Public Safety Answering Point Facilities. The county administration began to look at other sites and facilities already standing which may meet the requirements. None were found. It was settled to construct a new hardened facility specifically for the PSAP on property already owned by the county which could be built to meet the requirements as set forth for draft proposal by the 9-1-1 Advisory Board.

At this time, Lincoln County has the vital renovation of the standing LCH facility to house other county offices and departments which have already exceeded the needs of their current, various buildings and sites. This project, the Lincoln County Services Center, which will create a hub for the county departments, is expected to cost in the range of \$15,000,000.00 and will be ongoing as the new PSAP facility is also being constructed.

See Attachment 1 for PSAP Floor Plan and Attachment 2 for Site

**6. Please provide an implementation strategy and work plan, including a timeline.**

Lincoln County under the direction of the County Manager will implement the schedule to begin PSAP construction immediately upon approval of the Grant. The Site Selection is complete and the PSAP will be part of the New Government Complex at 200 Gamble Drive, Lincoln. The Complex is on 25 acres and offers a separate area for the PSAP with two controlled access roads. The project would be managed similar to the new Government Center with Public Works, Engineering, Procurement and Department staff expediting the design and construction under the direction of the County Manager. The group will meet weekly to coordinate the project.

The anticipated Schedule would be 5 months for architect selection, design of site work and building. The bidding and approvals will follow with an additional 2 months. Construction will proceed with a 9 month timeframe. The County anticipates transferring PSAP services to the new facility within 16 months of award of the grant.

**7. Please identify the interface or compatibility between existing equipment and/or software and that which you intend to purchase.**

There are no foreseen compatibility issues. This project expands upon current and maintained compatibility with existing technology in use within the current PSAP. The stand alone facility and Backup PSAP projects will build upon the investment already made by Lincoln County and 911 funds in upgrades and maintenance of the radio, network and NG911 capable infrastructure. We will be keeping the current CAD software vendor, Protocol vendor and radio software vendor. Our Radio infrastructure, with all current equipment and hardware will be integrated with the new center via fiber connection. All other equipment will be purchased for the new facility. The equipment in the current PSAP will remain behind due to being end of life, or equipment which still has viable repair or upgrade capabilities will be used for the Back-Up PSAP project. All equipment purchased will be compatible with the software systems and out of center radio equipment /hardware.

# Statement of Need

***Required for all grant types, this statement should reference the relationship of the grant project to NCGS §143b-1407(b) and the current funding priorities established by the Grant Policy and Procedures and include evidence of any financial need.***

## **8. Please indicate how your PSAP or group of PSAPs meets the statutory criterion of serving a rural or high cost area.**

Lincoln County meets the requirement, G.S. 53A-37 (5) rural areas; which states: 'Any county in North Carolina which does not include within its boundaries a city, as defined by G.S. 160A-1(2), with a population greater than one percent (1%) of the population of North Carolina.'

The only legally incorporated city, as defined by G.S. 160A-1(2), in Lincoln County is the county seat, Lincolnton. The current population within the city limits is 10,732 by the 2014 census statistics. The population of North Carolina in the 2015 census data is 10,042,802. Lincolnton's population equals out to 0.106% of North Carolina's total population.

Per the 2014 census, the per capita income for Lincoln County was \$25,693 and about 16.0% of the population was below the poverty line.

## **9. Please identify funding priorities, their impact on operational services, and consequences of not receiving funding.**

Our agency is expecting to use approximately \$200,000.00 out of \$272,662.13 of our FY17 9-1-1 funding allocation to complete our PSAP Back-up Plan in the same year we will be starting construction on the new hardened, stand-alone facility. Lincoln County's primary PSAPs need is both functional and financial.

Functional issues with the current PSAP facility include, work space, parking, inability to comply with Americans with Disabilities Act (ADA) requirements, and lack of redundancy and capacity from the current space, building, generator and HVAC system.

The current facility shares space within the Lincoln County Sheriff's Office and Detention Center building. There is no room for expansion beyond the current space allotted for the PSAP. At this time, there is no designated break area and ETCs eat at their consoles. A counter with a sink and mini refrigerator occupies one wall of the center with a microwave to accommodate all on duty. The coffee maker sits on the corner of one console. All employees on shift share 1 bathroom with 1 toilet and 1 sink. One wall of the single occupancy, gender neutral restroom is taken up by square foot lockers for each employee. If the bathroom facility is in use, employees must leave the center and use the restroom in the Sheriff's Office. There is no file storage or office supply storage available in the PSAP. Floor space around the consoles is occupied by file cabinets, Duke Power siren equipment, shelves and boxes. This leaves narrow access to the facility should an employee with a disability require it. The Director shares an office with the Operations Supervisor. The Coordinator's office was created within the server/radio hardware closet. All supplies and spare parts are boxed and stacked in the telephone equipment room or restroom.

The PSAP has one HVAC unit on the roof of the building and has been offline in the past for as long as a month, leaving the center to bring in fans and breach the security of the center door to allow for ventilation. The HVAC unit was installed when the building was constructed. The current generator only has capacity to run the consoles, phones and radios. If the power is out, there is no cooling for the rooms, no lighting and no power to the scant kitchen equipment to function. There is also no power to the offices to use their laptops or back up equipment for overflow.

During peak hours when all available consoles are in use, there is no redundancy for the ETC to move to should a piece of equipment at one console fail.

To address financial need, based on N.C.G.S. 62A-46(c), 9-1-1 funds received through the NC 911 Board may not be used to purchase, build or renovate a dispatch center. None of the County's current buildings or offices can meet the needs required to house a PSAP as drafted under 09 NCAC 06C.02010. The local government does not have the complete funding capability to construct a facility to house a 9-1-1 center. Lack of funding for a facility to meet the requirements as drafted in 09 NCAC 06C.02010 is the reason a new facility has not yet been built. Without funding in the form of a grant, the entirety of this project may not be possible.

Without grant funding, Lincoln County cannot build an appropriately sized facility to house the PSAP as drafted by the state 911 Advisory Board. While some of the listed priorities include 911 Fund allowable expenses, Lincoln County has limited funds to cover these costs over the grant period to still maintain its current system and provide funds for the Backup PSAP as required. Most of the priorities of the Lincoln County PSAP project are not 911 Fund allowable expenses. The distribution of 911 funds to Lincoln County for FY17 is \$272,662. This annual distribution must be expended on legislated eligible costs as mandated general statute:

§62A-46. Fund distribution to PSAPs.

(c) Use of Funds. - A PSAP that receives a distribution from the 911 Fund may not use the amount received to pay for the lease or purchase of real estate, cosmetic remodeling of emergency dispatch centers, hiring or compensating telecommunicators, or the purchase of mobile communications vehicles, ambulances, fire engines, or other emergency vehicles.

**10. Please provide a copy of your PSAP's long-term or strategic technology plan and identify how the project fits within it.**

Lincoln County Communications is currently NG911 compatible, but lacks space and security to fully implement some of the PSAP Facilities requirements. 09NCAC 06C.02011 (b) Circuits and Trunks (1) 'PSAPs shall have at least two 9-1-1 call delivery paths with diverse routes arranged so that no single incident interrupts both routes.' At this time, we do not have this implemented in county. Our overflow for interruption of 9-1-1 trunks is a mutual aid agreement with Gaston County 9-1-1, and while it functions quite well, our plan to have redundancy by separating the racks we have for our 9-1-1 delivery software in our long-term strategic plan, Lincoln County Communications will install and monitor a separate sight for call delivery paths in our Back up PSAP plan. 09 NCAC 06C.0213 (b): 'PSAPs shall maintain a secondary CAD method for use in the event of a failure of the CAD system.' At this time, we have a SOG to use paper and pen when and if the CAD system ever fails; we do not have a full redundancy in a separate server implemented. In our long-term strategic plan, Lincoln County Communications will install and monitor a separate sight for a duplicate CAD server in our Back up PSAP plan. Lincoln County Communications will have redundant fiber connections in the new PSAP to the 9-1-1 trunks we now operate. A fiber disconnection in April of this year showed us the need for this additional redundancy when a construction backhoe cut through the fiber connections for all 9-1-1 trunks and NG911 capabilities at the PSAP.

**11. Please identify the likelihood of completing the project utilizing your 911 fund balance and the percentage of grant funding being requested in relation to total project costs.**

Due to the planning and funding of a backup PSAP along with the need to build a new stand alone PSAP, the project cannot be completed by using the 911 fund balance alone. And since N.C.G.S. 62A-46(c), states; '9-1-1 funds received through the NC 911 Board may not be used to purchase, build or renovate a dispatch center,' the probability an adequate facility can be completed in the projected timeline with other county renovation and construction projects occurring concurrently and within budget without undo cost overruns or funding shortfalls is unlikely.

## ***Regional Initiative Enhancement/Replacement Project***

Required for all Regional Initiative Enhancement/Replacement project types. Regional initiative enhancement/replacement projects are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such projects may involve two or more primary PSAPs.

### **12. What is the relationship of participating PSAPs to the initiative? Provide MOUs between PSAPs identifying each participant PSAP's responsibilities to the project.**

Click or tap here to enter text.

### **13. Identify intended collaborative efforts between participating PSAPs.**

Click or tap here to enter text.

### **14. Identify how resource sharing will take place.**

Click or tap here to enter text.

### **15. Indicate how the initiative impacts the operational or strategic plans of the participating agencies.**

Click or tap here to enter text.



**NOTE:** The following section on “Consolidation Project Plan” is **ONLY** required if your type of grant is a “Consolidation”. If your project **IS NOT** a Consolidation, proceed to question # 23 to complete the grant application.

**16. Indicate how a consolidation would take place and improve service**

Click or tap here to enter text.

**17. Indicate how the consolidated PSAP should be organized and staffed**

Click or tap here to enter text.

**18. Indicate what services the consolidated PSAP should perform**

Click or tap here to enter text.

**19. Indicate how consolidated PSAP policies should be made and changed**

Click or tap here to enter text.

**20. Indicate how the consolidated PSAP should be funded exclusive of grant funding**

Click or tap here to enter text.

**21. Indicate what changes or improvements should be made to inter-communications among the local governments participating in the consolidation in order to better support operations.**

Click or tap here to enter text.

**22. Discuss sustainability of the consolidation project during the proposed term of the project, and for the foreseeable future.**

Click or tap here to enter text.



## FINANCIAL DATA

**23. Current 911 Fund Balance**  
\$ 641,249.41

**24. Amount Requested**  
\$6,237,362.00

**25. Total Project Cost**  
\$6,237,362.00

## Budget and Budget Narrative

***A budget and budget narrative must be supplied for all types of projects, as well as a copy of the applicant agency's approved FY 2016 PSAP budget.***

### **26. List planned expenditures**

See Attachment #3 PSAP Construction Project Cost Sheet

### **27. Provide a budget narrative that briefly explains the reason for each requested budget item.**

Due to the end of life of existing equipment each budget item is for the procurement of new equipment and new PSAP facility construction that is needed to insure the county's ability to meet current and future needs of the citizens either living in or traveling through our jurisdiction.

### **28. State how you will follow applicable procurement law, rules, and policies.**

Any products or services for the consolidation project will be procured by Lincoln County in the name of the new PSAP, Lincoln County Communications. All items will be the property and responsibility of Lincoln County for the benefit of the PSAP. Lincoln County follows both the N.C. Purchase and Contract Administrative Code (Title 1 Department of Administration Chapter 5-Purchase and Contract) in all phases of procurement including solicitation, selection, competitive processes, and contracting and has a purchasing manual that exceeds state requirements. N.C.G.S. 143-64.31 governs the procurement of professional services performed by architects, engineers, surveyors and construction managers. That process focuses on the qualifications of potential firms instead of their fees or the price of the contract. The architect, engineer, surveyor or construction manager that the local government wishes to contract with is selected based on competence and qualification for the type of professional services needed. After evaluating responses submitted by interested parties, Lincoln County can negotiate a price for the contract with the firm the county has determined to be best qualified based on the evaluation criteria used to evaluate responses. Price can be considered if the government unit exempts itself from the requirements of the statute.

In the current Lincoln County 911 operations, upgrading the existing systems and networks will allow continued relationships with existing contracted vendors. The current CAD system will be upgraded by procuring additional licenses for the added positions. The current logging recorder will be upgraded and will have enough space to accommodate recording of additional consoles and radios. In all planned technology purchases, the ability to continue with current contracted vendors will allow Lincoln County to reduce the procurement timeline and continue with familiar systems.

### **29. If the project will have ongoing expenses, such as monthly recurring charges, describe plans and specific sources for future/long-term funding and demonstrate how the project will be sustained in the future without additional 911 Grant Program funding.**

Recurring charges will be funded the 911 fund balance along with county fiscal budgeting.

## Evaluation

***All applications must include evaluation information. The final report shall include an evaluation demonstrating that the equipment or services funded by the grant have been purchased, installed/implemented, and are performing as expected.***

**30. Explain how your evaluation will measure the achievement of the goals and objectives identified in the Project Description with a timeline for meeting short, intermediate, and long term goals.**

The County staff, administration and Commissioners are very supportive of this project. The County Commissioners recently approved consolidation of County services at the 200 Gamble Drive location. The PSAP at this location will meet County goals to locate the PSAP in close proximity to the New Emergency Operation Center, County Administration, Board of Commissioners and Support Departments. The new facility will immediately provide ample space for existing operations and improve services.

**31. Describe how evaluations will be conducted, including performance parameters which must be met in order to meet acceptance criteria.**

The project will be under the direction of County Manager and Commission with review on the budget, cost, schedule and safety provided monthly during the project by staff. The project will be managed against the initial schedule and budget in the monthly status updates. Staff will implement value engineering techniques at all steps in the development and construction of the project using in house staff, consultants and vendors. The same group will be involved in the design to assure a quality and functional building is completed. The long term goal will be to provide Lincoln County a new facility to meet the growth and future needs of the County. We also hope to provide a prime example of a functional independent PSAP that could be a model for other Counties.

**32. Identify how data will be collected and presented**

The County staff will provided monthly status reports on the project. Staff typically meets weekly on projects of this importance from concept to completion. Completion reports will be presented publically to the Board of Commissioners with limited information on the inside due to the sensitive nature of the facility.

**Cost Phase - Construction****Estimate**

Hardened Facility 5805 Sq ft

5805

01 - General Requirements	\$	25.00	\$	145,125
02 - Existing Conditions	\$	12.00	\$	69,660
03 - Concrete	\$	35.00	\$	203,175
04 - Masonry	\$	12.00	\$	69,660
05 - Metals	\$	27.00	\$	156,735
06 - Wood, Plastics, and Composites	\$	21.00	\$	121,905
07 - Thermal and Moisture Protection	\$	14.00	\$	81,270
08 - Openings	\$	19.00	\$	110,295
09 - Finishes	\$	35.00	\$	203,175
10 - Specialities	\$	55.00	\$	319,275
11 - Equipment	\$	10.00	\$	58,050
12 - Furnishings	\$	10.00	\$	58,050
13 - Special Construction	\$	66.00	\$	383,130
21 - Fire Suppression	\$	8.00	\$	46,440
22 - Plumbing	\$	35.00	\$	203,175
23 - Heating, Ventilating, and Air Conditioning	\$	42.00	\$	243,810
25 - Integrated Automation	\$	3.00	\$	17,415
26 - Electrical	\$	35.00	\$	203,175
27 - Communications	\$	2.00	\$	11,610
28 - Electronic Safety and Security	\$	12.00	\$	69,660
31 - Earthwork	\$	22.00	\$	127,710
32 - Exterior Improvements	\$	13.00	\$	75,465
33 - Utilities	\$	19.00	\$	110,295

Sub Total

\$ 2,873,475

Escalation @ 8%

\$ 229,878

Design Contingency @ 15%

\$ 431,021

**Subtotal**

\$ 3,534,374

**Cost Phase Design**

A/E Design Fee (9% Construction Cost)

\$ 258,613

Project Management Fees

\$ 20,000

Needs assessment for technology implementation

\$ 35,000

Design and consulting for networks and systems	\$	25,000	
<b>Total Design Services</b>			\$ 999,512

**Cost Phase Permits**

Building Permit			
Geotechnical Survey	\$	9,000	
Water Service/Sanitary Service	\$	30,000	
Erosion and Sediment Control (? Acres)	\$	8,000	
<b>Total Permitting</b>			\$ 47,000

**Cost Phase - Communications Systems**

Radio Console System (12 position)	\$	129,314	
CAD System			
Protocol Software - Additional Licences 3 Live 2 Training	\$	52,500	
Telephony (Admin)	\$	60,000	
Telephony (911)	\$	561,100	
Logging Recorder	\$	68,980	
911 Console furniture (12 Work stations)	\$	180,000	
Microwave Equipment	\$	172,500	
Fiber to Communications Tower			
Technology Contingency 10%			
<b>Total Communications Systems</b>			\$ 1,224,393

**Cost Phase - Other Costs**

Furniture (Not Console Furniture)	\$	63,250	
Audio-Visual	\$	4,600	
IP Networking Gear	\$	207,000	
Server and Storage systems	\$	21,060	
Multiplex for Connectivity	\$	103,500	
Telecomm Utility Connection	\$	5,750	
Monitors - Console	\$	13,464	
PC workstations 12	\$	13,728	
<b>Total Other Costs</b>			\$ 432,352

**Total Project Budget**

**\$ 6,237,632**

Generator Pad  
20' x 20'

WC

WC

Lockers

Lockers

Servers

Operations

IT/GIS

HVAC

UPS

Telephone

Supplies

WC

Lobby

Kitchen

Conference/  
Training

File  
Storage

Director

Coordinator

Training

911  
Center

14 (Supervisor)

13 (Supervisor)

8

7

5

6

3

4

2

1

9

10

11

12







# North Carolina 911 Board Grant Application

## General Information

**Project Title** Martin County PSAP and Regional Backup Facility

**Grant Fiscal Year - 2017**

**Project Director** David Bone, Martin County Manager

**Project Contact** Jason Steward

**Project Contact Title** E911 Director

**Address** Martin County Emergency Communications Center

305 East Main Street

Williamston, NC 27892-8825

**Phone** 252-789-4556

**Email** jason.steward@martincountyncgov.com

*Three types of grants are available, as described below. In the box following these descriptions, please select the Grant Type which most appropriately fits your request.*

- **Consolidation** - A consolidation project involves combining one or more PSAPs with a primary PSAP with an integrated management structure that serves the same populations and jurisdictions previously served by offering grant funding for both PSAP costs authorized under G.S. 143B-1406(e) and costs not authorized under G.S. 143B-1406(e) to include construction costs.
- **Individual PSAP Enhancement/Replacement** - the relocation costs of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.
- **Regional Initiative Enhancement/Replacement** - Regional initiatives are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such initiatives comprise projects involving two or more primary PSAPs or a primary PSAP with approved secondary PSAPs. Costs of relocation of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.

**Grant Type**    *Regional Initiative Enhancement/Replacement*

**PSAP Name**    *Martin County Communications Center*

- 1.    *Has the Revenue/Expenditure Report for FY15 been completed and approved by the NC 911 Board Fiscal staff for the applicant PSAP?***

YES

- 2.    *Has the applicant PSAP submitted a plan and secured the means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP (backup plan)?***

YES

- 3.    *If the answer to #2 above is yes, does the PSAP have the means to implement the plan before 7/1/16?***

NO

- 4.    *If plan implementation will not occur before July 1, 2016, has an extension been requested?***

YES

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# Project Description

***Required for all grant types, this should be a thorough, concise, and complete description of the proposed project.***

## **5. Please outline project goals and objectives.**

Martin County desires to provide for its residents and visitors a new state-of-the-art 9-1-1 facility that meets or exceeds all North Carolina 911 Board requirements for a 9-1-1 communications center. This will allow Martin County 9-1-1 staff to add much needed space for additional positions, which will enable the County to provide better services to its citizens and visitors. In order to accomplish this, Martin County would like to relocate their 9-1-1 center to property already owned and identified by Martin County for such a facility. The current 9-1-1 center has reached its maximum capacity and actually shares space with the Sheriff's Office holding cell, which creates serious security concerns.

An equally important goal is for Martin County to serve as a regional backup PSAP for other eastern North Carolina counties desiring to route their calls to Martin County in the event of a 9-1-1 failure. Bertie County is committed to participating in the regional backup 9-1-1 initiative by having both their operations and 9-1-1 calls routed to Martin County in a backup scenario. This has already been approved by the Bertie County Board of Commissioners through a resolution that was signed at their January 15, 2016, Commissioners' Meeting.

To fundamental goal of this initiative is to improve the safety and security of 9-1-1 center staff, with the intention to establish a regional backup facility that will serve Bertie County, and possibly other counties in the future. The objectives associated with this are as follows:

- Objective 1-1: Construct new, state-of-the-art 9-1-1 facility on land owned by the County
- Objective 1-2: Build a facility that offers properly designed functional areas that address the operational, personnel, safety, security, and storage needs of the 9-1-1 center staff
- Objective 1-3: Provide a 9-1-1 facility that allows for future expansion needs, can support operations during situations that require overflow staffing, and support neighboring counties when conditions merit the assistance of Martin County
- Objective 1-4: Meet applicable standards, such as National Fire Protection Association (NFPA) 1221, as well as those from the Federal Emergency Management Agency (FEMA), and North Carolina 911 Board requirements

A secondary goal is to install technology (new or upgraded as required) to ensure continued communications with first responders, which serves to enhance responder safety, and to ensure compatibility with Bertie County. The objectives associated with this are as follows:

- Objective 2-1: Provide a facility that is equipped with technologies that meet or exceed current requirements, and are designed to function within a next generation environment; this can be realized through replacement of "end-of-life" equipment and technologies, those that are without vendor support, and upgrading or replacing equipment and technologies that are technically outdated
- Objective 2-2: Utilize customer premise equipment (CPE) that is compatible with Bertie County to reduce any incompatibility issues that may arise
- Objective 2-3: Upgrade the current facility's technology to ensure compatibility with the new PSAP, such that the legacy facility can serve in a back-up PSAP when needed

The third goal is to establish Martin County as a host county for a regional backup initiative. The objective associated

with this is as follows:

- Objective 3-1: Serve as a regional backup center to surrounding counties by providing space and technology that will allow participating counties a means to transfer their 9-1-1 calls to Martin County

The Martin County 9-1-1 Center is the only 9-1-1 answering point within the county, operating from the Martin County Government Complex located at 305 East Main Street in Williamston. This building, constructed in 1983, houses most divisions within Martin County Government, utilizing a design that does not include modern security technology. The 9-1-1 center currently resides in an area of the building that was not designed to host a 9-1-1 center, which has now been outgrown, and presents several physical security risks. One main area of concern is the close proximity of the Sheriff's Office holding cell, which is located right outside a door that opens directly onto the operations floor.

There have been two failed attempts at garnering interest in a regional consolidation initiative, which is encouraged by the North Carolina 911 Board. In October 2013, Martin County recognized the need for improvements for their 9-1-1 services, both through technology and facility. As a result, Martin County Manager David Bone approached the Bertie County Manager to discuss a plan for a two-county consolidated regional communications center. This process involved issuing a request for qualifications (RFQ) for a feasibility study that would assist the counties in determining the technical, operational, governance and facility feasibility of implementing a regional communications center. Also included in the study would be planning for an Emergency Operations Center that could be utilized by either County during disaster management functions. A joint Bertie-Martin County Commissioners' Meeting was held on November 2013. It was agreed by the Bertie County Commissioners to further review the plan and make a decision whether to move forward with the study at their December 2, 2013 Commissioner's Meeting. At the December 2, 2013, Bertie County Commissioners' Meeting the feasibility study for consolidation was reviewed. After discussion, a vote was taken not to move forward with the study.

In October 2014, Mr. Bone, in another effort to establish a regional communications center in eastern North Carolina, contacted Washington County Manager Jerry Rhodes to discuss the feasibility study for a two-county consolidation. On January 5, 2015, the feasibility study was put on the Washington County agenda. It was at this meeting that the commissioners decided not to pursue this as an option for their county.

Martin County continued discussions with Bertie County regarding the legislated backup requirements and the possibility of Martin County providing space in a new facility for Bertie County. In December 2015 and January 2016, respectively, Martin County and Bertie County approved a resolution to support the provision of a regional backup facility and grant application. The resolution can be found as Attachment 1. Martin County contracted with Mission Critical Partners to conduct a feasibility study and assist in the development of requirements for a new facility; this assessment can be found as Attachment 2.

While Martin County has tried, unsuccessfully, to encourage neighboring counties to consider a consolidation initiative, Martin County's needs remain. However, Martin County believes the approved regional backup initiative with Bertie County is a step in the right direction.

Martin County desires to address both current and future needs through the provision of a newly constructed 9-1-1 facility that is equipped with the future in mind and that can support partnering counties should the regional backup initiative continue to make advancements with other neighboring counties or evolve further.

Martin County continues to demonstrate its efforts to be a leader in establishing regionals to improve 9-1-1 services.

**6. Please provide an implementation strategy and work plan, including a timeline.**

This project initiative is for the construction of a new 9-1-1 center, which will serve as a backup to Bertie County, on property already owned by Martin County. The new facility would be equipped with four 9-1-1 answering/dispatch positions for Martin County, with two additional for Bertie County's use. The facility will include new 9-1-1 CPE, new workstation furniture, as well as new radio console equipment, server(s), antennas, and a tower. A new recorder system will also be installed. While the new facility is under construction, Martin County 9-1-1 continues normal operations in its current location.

Equipment and technology will be procured prior to substantial completion of the facility, based on respective lead times. Once the facility is complete, equipment will be installed and tested. Once occupancy is granted, Martin County 9-1-1 staff will re-locate to the new facility.

Martin County, with assistance from Mission Critical Partners, will initiate a work plan that focuses on coordination, monitoring, and control of the multiple schedules for the facility, technology and operational components. The following components are presented at a high-level:

- Site evaluation and preparation
- Facility design and construction
- Technology systems design, procurement, installation, testing, and training
  - Functional testing between the legacy and new facility
  - Functional testing between the Martin County 9-1-1 Center and Bertie County 9-1-1
- Transition Planning
- Systemization
- Migration to the new facility
- Cutover
  - Failover testing between the legacy and new facility
  - Failover testing between Bertie County and Martin County
- Acceptance of facility and systems
- Exercise with Bertie County
- Project Close Out

All component schedules will be aligned with the construction schedule for the new Martin County 9-1-1 facility.

Although a detailed phase-by-phase timeline with associated milestones cannot be submitted at this time, a tentative project timeline of milestones is listed below, assuming grant award. Grant award is month zero.

**Facility Tasking**

Prepare a request for proposal (RFP) for a design architect/engineering firm – Month 1

Select and hire design architect – Month 2

Complete regulatory review – Month 3

Complete design – Month 10

Bid construction – Month 11

Select contractor and begin construction – Month 12

Allow technology vendor access to facility – Month 25

Complete construction – Month 26

Integrate technology – Month 27

Commission and occupy new center – Month 28

Technology Tasking

Establish equipment/systems parameters/review budgets – Month 3

Finalize requirements – Month 5

Develop RFPs or statements of work (SOWs) for vendors – Month 10

Issue RFPs/SOWs – Month 13

Evaluate vendor responses/select vendors – Month 15

Procure systems – Months 16–24

Install equipment – Month 25

Test/accept systems – Month 27

Train for cutover/migration plan – Month 28

Complete migration plan – Month 29

Cutover to new facility – Month 30

The project is expected to take 24–30 months to complete. These timeline estimates should allow sufficient buffer for unanticipated delays.

**7. Please identify the interface or compatibility between existing equipment and/or software and that which you intend to purchase.**

Minimal interface or compatibility issues are expected.

Martin County implemented Intrado VIPER 9-1-1 CPE with Power911 workstation equipment in February 2015. Bertie County implemented the Airbus Sentinel Patriot CPE solution in 2011. Due to rapidly changing technology, the expected life span of 9-1-1 CPE equipment is generally four to seven years. While Martin County's CPE is fairly new, during a two to three project life cycle, the CPE will be approaching end of life. To ensure compatibility issues with Bertie County are minimal, Martin County, at this time, intends to pursue an Airbus CPE solution. It is the goal of Martin and Bertie counties to utilize the same CPE solution.

Both Martin and Bertie counties utilize Southern Software as their CAD system software provider. As such, the complexity of sharing data is reduced. Separate profiles will be established for Bertie County 9-1-1 staff on the Martin County 9-1-1 Southern Software server and CAD workstations. This will ensure that Bertie County 9-1-1 only has access to Bertie County data and/or vice versa. Appropriate security privileges will prevent Martin County 9-1-1 staff from accessing Bertie County data without appropriate administrative privileges. GIS data will be merged into a single data set for CAD system mapping. By sharing GIS data from a single source, emergency response zones for both Martin and Bertie counties would be available to both centers, allowing 9-1-1 location data to plot appropriately for Martin County 9-1-1 staff during the transition period while waiting for Bertie County 9-1-1 staff to arrive.

Martin County 9-1-1 utilizes a combination of very high frequency (VHF) and the North Carolina Voice Interoperability Plan for Emergency Responders (VIPER) trunked radio systems. Bertie County 9-1-1 utilizes a VHF radio system and a single low-band channel; the primary dispatch system utilizes radio repeaters. The Motorola MCC 5500 consoles planned for the new facility will be provisioned to support Bertie County operations. Bertie County will only require five radio resources and paging in the new console system. The MCC 5500 is adequate to handle Bertie County requirements.

Both Martin and Bertie counties utilize NICE recording solutions. Martin County 9-1-1 will have a new recording system that is planned to support 11 analog channels; the recorder as proposed will support up to 24 channels. The new recorder will support recording of 10 channels for Bertie County, with the appropriate upgrades.

# Statement of Need

***Required for all grant types, this statement should reference the relationship of the grant project to NCGS §143b-1407(b) and the current funding priorities established by the Grant Policy and Procedures and include evidence of any financial need.***

## **8. Please indicate how your PSAP or group of PSAPs meets the statutory criterion of serving a rural or high cost area.**

G.S.53A-37 (5) defines a rural area as: "Any county that does not include within its boundaries a city, as defined by G.S. 160A-1(2), with a population greater than 1% of the total population of North Carolina."

The United States Census Bureau estimates North Carolina's 2014 population estimate as 9,943,964. Martin County's largest incorporated area is the town of Williamston, with a population of 5,322 according to the United States Census Bureau's July 1, 2014, estimate; a decrease of 3.7 percent from the April 1, 2010, census. Martin County's entire population, estimated at 23,357 as of July 15, 2015, is 0.235 percent of the state's. Population statistics and other supporting documentation can be found as Attachment 3.

Bertie County's population as of July 1, 2015, was estimated at 20,199 by the Census Bureau. The town of Windsor, the county seat, has a population of 3,630 at to April 1, 2010 census.

Clearly both counties meet the statutory criterion of serving a rural area.

In addition, the North Carolina Department of Commerce has ranked both Martin and Bertie counties as Tier 1 for 2016; Tier 1 being the most distressed. (<http://www.nccommerce.com/research-publications/incentive-reports/county-tier-designations>) A map showing the Tier designations can be found as Attachment 4.

## **9. Please identify funding priorities, their impact on operational services, and consequences of not receiving funding.**

§143B-1407(b), PSAP Grant and Statewide 911 Projects Grant Application, states, "A PSAP may apply to the 911 Board for a grant from the PSAP Grant and Statewide 911 Projects Account. An application must be submitted in the manner prescribed by the 911 Board. The 911 Board may approve a grant application and enter into a grant agreement with a PSAP if it determines all of the following:

- (1) The costs estimated in the application are reasonable and have been or will be incurred for the purpose of promoting a cost-effective and efficient 911 system.
- (2) The expenses to be incurred by the applicant are consistent with the 911 State Plan.
- (3) There are sufficient funds available in the fiscal year in which the grant funds will be distributed.
- (4) The costs for consolidating one or more PSAPs with a primary PSAP, the relocation costs of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(d) and construction costs.

Funding priorities for this grant request include the construction of a new facility that addresses existing needs as well as future needs, including housing the Martin County 9-1-1 Center and providing a backup center for Bertie County 9-1-1. The facility could also serve other neighboring counties should they elect to be part of the regional backup center in the future.

Martin County's existing facility experiences the challenges and risks identified below. Additional issues are presented in Mission Critical Partners assessment report, as are photographs.



- Dispatch operations, and the Director's work area, are adjacent to the Sheriff Office's holding cells. These areas are separated by a standard door with, as its sole security feature, a magnetic keypad lock. The door jamb frame is of standard metal frame construction, which could easily be forced open. Detainees could easily gain entry to the 9-1-1 center if 9-1-1 personnel happened to be entering or exiting from the shared hallway where the holding cell is located.
- There is one other ingress/egress doorway from a hall next to the Director's Office cubicle. This door is secured by a door lock, and opens directly to the Director's work area.
- Dispatch operations is located directly under the second floor restroom area of the Government building complex. This has inherent risk of water flow into the 9-1-1 center when leaks develop.
- Dispatch operations take place in a physical space that can only accommodate three dispatch workstations. There is no room for future growth or to temporarily support 9-1-1 personnel from adjacent counties, under any circumstance.
- The Director's work area has open access to the 9-1-1 center and offers no privacy. This makes conducting personnel review meetings and other personnel function difficult, if not impossible within the work area. Quality Assurance functions are executed from this work space as well.
- The Server/Data Room was converted space that once was used by the Highway Patrol as office space. The room, while usable, was not designed to perform as a Data//Server room and has Americans with Disabilities Act compliance issues.

A second priority is the enhancement, replacement, or replication of existing equipment, software, and technology to enable both the new 9-1-1 center and current PSAP, and to serve as a backup PSAP for Bertie County.

The third priority is to provide space to allow overflow operations for Bertie County and other adjacent counties should the need arise.

The goals of this initiative cannot be accomplished without a grant award. Funding through traditional budgetary provisions is not likely within the foreseeable future. Since the 2010 Census, Martin County's population has decreased 4.7 percent, while Bertie County's has decreased 5.1 percent. According to the Budget & Tax Center (<http://www.ncjustice.org/?q=budget-and-tax/btc-brief-county-economic-snapshots-2016>), 19.7 percent of Martin County residents and 27.7 percent of Bertie County residents lived in poverty in 2014; the state poverty rate was 17.2 percent. Over 50 percent of Bertie County's residents are low income, while 42 percent of Martin County's residents are low income. This financial data does not bode well for the counties. Economic Snapshots can be found as Attachment 5.

**10. Please provide a copy of your PSAP's long-term or strategic technology plan and identify how the project fits within it.**

A copy of Martin County Communications 5-Year Strategic/Technology Plan can be found as Attachment 6. Some of the areas identified within the Plan demonstrate the agency's commitment toward providing excellent services through several means, including redundancy. The document illustrates that utilization of "appropriate and eligible alternative funding resources" is a means to achieving service excellence, and is consistent with the intent of this grant program. One component of achieving service excellence was the utilization of Emergency Medical Dispatch (EMD) protocol during 2015 year. Recently Emergency Fire Dispatch (EFD) has been implemented. Martin County 9-1-1 strives to ensure our long-term plans are feasible. Both of these components will continue in operations within a new facility. The Communications Center desires to create a "Continuity of Operations" Plan that involves a true backup center as a component; this plan can become a reality when a new facility is in operation. At this time, Martin County has submitted a backup plan to utilize space within the Sheriff's Office training facility until such time as

the current 9-1-1 center can transition to a backup. In addition to the aforementioned items, Martin County 9-1-1 would like to increase operational capacity through the addition of one workstation, and to provide classroom-based orientation telecommunicator training. Unfortunately, this cannot occur within the current facility as it exists. There are several items within the plan, both operationally and technology-based, that are equally consistent with this grant initiative.

**11. Please identify the likelihood of completing the project utilizing your 911 fund balance and the percentage of grant funding being requested in relation to total project costs.**

This initiative cannot and will not be completed without grant funding; it is almost impossible that Martin County could fund this project under current economic realities. Given the limited funds available at the County level, and the budgetary challenges that exist within both economically stressed counties, it is unlikely that alternative funding sources could be accessed that would be any more appropriate. Martin County does not the tax base to invest in a new 9-1-1 facility.

Martin County's 911 Fund Balance Report, dated May 25, 2016, indicates that the balance is \$88,076.92. Annually, Martin County receives \$207,640 in support of 9-1-1. Bertie County reported that their fund balance is \$95,398. Supporting documentation can be found as Attachment 7.

9-1-1 funds must be expended on eligible legislated costs. As the counties are allowed to retain 20 percent of the received funds, the funding in Martin and Bertie counties does not exist to meet the goals and objectives identified for this project. Martin County's Communications budget can be found as Attachment 8.

Project costs are estimated at **\$5,753,916.58**. Martin County respectfully requests **100 percent** funding through the Grant Program. A funding request table can be found as Attachment 9.

# ***Regional Initiative Enhancement/Replacement Project***

***Required for all Regional Initiative Enhancement/Replacement project types. Regional initiative enhancement/replacement projects are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such projects may involve two or more primary PSAPs.***

## **12. What is the relationship of participating PSAPs to the initiative? Provide MOUs between PSAPs identifying each participant PSAP's responsibilities to the project.**

Martin County and Bertie County will pursue a grant from the NC 911 Board for the construction and equipment of the facility. Martin County will be the primary applicant.

Martin County will provide additional funding for Capital costs as authorized by Martin County Board of Commissioners.

Martin County will provide the backbone structure to provide important and necessary services such as facility maintenance, budget/finance, legal, risk management, and procurement. Martin County will be fully responsible for the operational cost of the Martin County 9-1-1 Center. An average operational daily cost (to include utility and facility maintenance costs) will be determined annually by Martin County. This will be determined by September 1<sup>st</sup> of each year for the prior July 1<sup>st</sup> – June 30<sup>th</sup> fiscal year. In the event that Bertie County utilizes the Martin County 9-1-1 Center for backup services, training, or any other use, Bertie County will reimburse Martin County for 50 percent of the average daily operational costs (to include utility and facility maintenance costs) for each day (or portion thereof) that Bertie County uses the Martin County 9-1-1 Center. For the first year of operation, \$50 will be used as the “average operational daily cost.”

Equipment and furnishings for the 9-1-1 center will be purchased in Martin County’s name and be the property of Martin County. The purchase and maintenance of all equipment necessary to receive calls, radio transmissions, and data at the locations (or vehicles) of participating jurisdictions will be the responsibility of the jurisdictions.

Each jurisdiction will be responsible for purchasing and maintaining its own records/data management module and related CAD interface. Access to internal CAD information via the internet may also be an option, and will be funded by each participating jurisdiction.

The resolution supporting this initiative can be found as Attachment 1.

## **13. Identify intended collaborative efforts between participating PSAPs.**

Martin County and Bertie County, and other jurisdictions that may elect to participate in the future, will cooperate together and with local, state and federal agencies in order to maximize interoperability and economies of scale, grant funding, and other means to reduce costs for equipment and operations.

The Martin County and Bertie County 9-1-1 managers will develop uniform standards for a multi-jurisdictional CAD system with expandable ports for multiple interfaces such as records management, fire reporting, EMS reporting and message switching for mobile data terminals (MDTs) or other data-sharing interfaces.

The parties may engage in cooperative purchasing activities, including, but not limited to, use of North Carolina State Contracts.\_

Martin County also intends to work with the North Carolina 911 Board, Mission Critical Partners, and vendors to

ensure the success of this effort.

#### **14. Identify how resource sharing will take place.**

The Martin County 9-1-1 Manager and all employees of the Martin County 9-1-1 Center will continue to be Martin County employees, subject to all Martin County personnel policies and procedures.

Based on the respective 9-1-1 call volumes in the counties, it is quite likely that Martin County 9-1-1 staff can handle the increased call volume for a short while until Bertie County 9-1-1 staff arrive in Martin County. If there is an event in Bertie County that renders their 9-1-1 center inoperative, there is a possibility that other citizens may be affected, resulting in an increased 9-1-1 call volume for which Martin County needs to be prepared.

Equipment, technology, and other resources will be utilized in a manner that provides efficiency and financial prudence. Design considerations will take this into account and resource sharing will be applied where it is practical to do so. Design processes for the new 9-1-1 facility will be applied that would allow an efficient migration of other counties to the regional backup in the future.

#### **15. Indicate how the initiative impacts the operational or strategic plans of the participating agencies.**

This initiative continues to allow Martin County 9-1-1 to fulfill its mission: to provide timely, efficient, and convenient access to public safety services for the citizens of the County, those visiting, of those passing through while ensuring the safety of the responder community. Martin County 9-1-1 desires to continue to be a leading 9-1-1 center in the state, and to deliver excellent 9-1-1 public safety services. Three of our strategic objectives are as follows:

- Ensure emergency preparedness through increased redundancy
- Delegate quality assurance duties to seasoned staff
- Seek appropriate funding resources to provide high quality technology and equipment inside the 9-1-1 center

This initiative will provide increased redundancy, both at the new facility and at the current facility, which will transition to a backup resource. Currently quality assurance is performed from an office with direct access to the operations area, which affords little privacy for the actual call/incident review and any subsequent review with the respective staff. This initiative will provide private office space in which to conduct quality assurance reviews and to provide counseling to staff if the need arises. This initiative will also provide high quality technology and equipment for the center. While some upgrades have already occurred and some goals, such as implementing Emergency Medical Dispatch (EMD), have been realized, there is more to be done.

In addition, one of the planned goals for 2017 was to obtain two additional workstations for the center to accommodate all available staff in the event of an emergency. While this will have to wait until a new facility is constructed it is a need that can be realized through the grant. Currently Martin County 9-1-1 has three console positions. Through the grant, Martin County is requesting four workstations for itself and two for Bertie County, which will be available for Martin County's use when not needed by Bertie County. This impact to the strategic goal is positive.

Through a grant award, Martin County will enhance the service it provides to its citizens and responders, both short- and long-term.

**NOTE:** The following section on “Consolidation Project Plan” is **ONLY** required if your type of grant is a “Consolidation”. If your project **IS NOT** a Consolidation, proceed to question # 23 to complete the grant application.

**16. Indicate how a consolidation would take place and improve service**

N/A

**17. Indicate how the consolidated PSAP should be organized and staffed**

N/A

**18. Indicate what services the consolidated PSAP should perform**

N/A

**19. Indicate how consolidated PSAP policies should be made and changed**

N/A

**20. Indicate how the consolidated PSAP should be funded exclusive of grant funding**

N/A

**21. Indicate what changes or improvements should be made to inter-communications among the local governments participating in the consolidation in order to better support operations.**

N/A

**22. Discuss sustainability of the consolidation project during the proposed term of the project, and for the foreseeable future.**

N/A



## FINANCIAL DATA

**23. Current 911 Fund Balance**

**\$88,076.92**

**24. Amount Requested**

**\$5,753,916.58**

**25. Total Project Cost**

**\$5,753,916.58**

# Budget and Budget Narrative

***A budget and budget narrative must be supplied for all types of projects, as well as a copy of the applicant agency's approved FY 2016 PSAP budget.***

## **26. List planned expenditures**

Please see the following information detailed below.

Total Project Costs: \$

Construction/Site Development	\$3,668,517.60
Technology	\$2,085,398.98
<b>Total Cost</b>	<b>\$5,753,916.58</b>

Planned expenditures are identified below in question 27, and a funding request table can be found as Attachment 9.

Martin County's Communications budget can be found as Attachment 8; the budget for fiscal year 2016-2017 has not yet been approved. The document, however, lists the departmental request and recommended for the time period as well as the approved 2015-2016 budget.

## **27. Provide a budget narrative that briefly explains the reason for each requested budget item.**

### Construction Costs

Budgetary costs for the design phase, permitting, building construction, and other ancillary costs were provided by Mission Critical Partners. These cost were developed based on Mission Critical Partners' experience in programming such facilities, and factoring in costing based upon similar work completed within North Carolina. Programming for the facility allows for six dispatch workstations, two of which are for use by Bertie County should the need arise. When not in use by Bertie County, the positions could be used for training or monitoring newly released telecommunicators. The facility programming also includes support areas for staff and equipment. The facility programming and budgetary cost estimates can be found in the appendices of the Feasibility Study provided by Mission Critical Partners, which is Attachment 2.

Martin County does not anticipate using a Construction Manager, but will manage the A/E firm to support the Project Manager and Facilities Department in the administration of construction contracts and to supervise the construction.

Costs for construction of the new PSAP facility, including site construction, are estimated to be \$2,706,540 based upon square footage cost of \$350/square foot. With escalation and construction contingency, the cost is estimated at \$2,983,960.

Architectural fees and related services that are necessary for successful project completion are estimated by Mission Critical Partners to \$316,056. Architectural fees are projected based upon 9 percent of the base construction cost estimate. Permits are estimated at \$35,000.

While ancillary computer equipment and office furniture were estimated in construction costs, Martin County has actual quotes, which lowers the construction costs.

With an overall construction project contingency of 10 percent, the construction budget is estimated at **\$3,668,517.60.**

### Technology Costs

Due to the State's backup PSAP deadline, many vendors were unresponsive or indicated they were too busy at this time to provide quotes. As such, Martin County experienced many difficulties obtaining current quotes from vendors. Martin County has obtained as many quotes as possible for this grant year. Because Martin County submitted a grant last year for the same technology, this enabled us to have fairly recent quotes, which are used when no new quote is available. To account for any price differences, Martin County has included a 5 percent increase for these quotes.

Budgetary quotes can be found in Attachment 10.

#### Radio Console System: \$334,808.40

Martin County submitted a quote last year for five positions of Motorola MCC5500 digital consoles to interface with the Martin County radio system and interoperability with VIPER and legacy VHF frequencies. These consoles also support paging for service dispatch. The console workstations and system includes all associated hardware and software. In order to account for the sixth position, the previous quote was used to obtain a per position estimate. A 5 percent increase was not added to this quote.

#### Radio Connectivity from Martin County to Bertie County: \$80,000

Based on Mission Critical Partners' feasibility study, three options were provided for radio connectivity. Option 3 was a microwave radio network from the new Martin County tower to the existing Bertie County tower. This option is the most reliable and fault-tolerant solution. Wireless NC did not have time to provide a detailed quote, but estimates the costs between \$60,000 to \$85,000. Martin County is requesting \$80,000.

#### Computer Aided Dispatch: \$79,201.78

Martin County received a quote for CAD positions for the backup center. Based on the quote for two positions, this quote was used to provide six positions in the new facility. The two CAD servers, which were priced out at \$34,434.94 each, were removed as they are purchased less expensively through SoundSide Group. A 5 percent increase was not added to this quote.

#### Administrative Telephone System: \$58,794.21

Martin County submitted a quote last year from CenturyLink for an Administrative Phone System. While the quote referenced Sampson County, the system specified was comparable, and can be used as an estimate where Martin County is concerned. The quote listed non-recurring costs at \$469.49 for the uninterruptible power supply (UPS) to support the network, and \$1,431.25 monthly recurring charges (MRC) for a service term of 36 months for the equipment, network, installation, and support, equaling \$51,525.00. An email from CenturyLink requested the addition of \$4,000 for wiring. Total estimated costs equaled \$55,994.49. This system is necessary to allow the new facility to be able to access the County telephone network. A 5 percent increase has been added to this quote.

#### 911 Telephone System: \$291,639.18

Martin County received a quote from CenturyLink for two VIPER positions for the backup center. Based on the quote for two positions, this quote was used to provide six positions in the new facility. This estimate is less than the quote for the A911 network previously submitted.

#### Recording System: \$25,866

Martin County received a quote from EdgeOne Solutions for NICE Inform recording solution to support operations at the new PSAP facility and allow the most recent call logging technology to be utilized within the facility.

#### Communications Tower: \$211,083.10

Martin County received a quote from Hightower Communications for a 200-foot self-supporting communications tower to support radio dispatch functions of the PSAP. This tower will also provide redundancy to the existing tower that was recently placed in operation approximately six miles away from the planned facility site and will provide



connectivity to Bertie County. The quote includes appurtenances to mount 10 antennas, a microwave dish and an ice bridge. Also included are engineering services.

Grounding: \$14,300

Martin County provided a quote last year from SoundSide Group for grounding critical infrastructure/facility and will be installed along with technology equipment. A 5 percent increase was added to this quote.

UPS: \$60,000

Martin County submitted a quote last year for an APC 40kva UPS, including installation, to support the mission critical functions of the facility. Mission Critical Partners estimates this cost approximately \$60,000.

Net Clock: \$12,500

Martin County submitted a quote last year from SoundSide Group for a NetClock to synchronize time over multiple technologies. A 5 percent increase was not added to this quote.

Site Security, Access Control, and Audiovisual: \$118,235

Security cameras are necessary to monitor the exterior of the facility to ensure the safety and security of the facility occupants and the property itself. An audiovisual system to support the mission of the PSAP with desired control functionality will also be required. The system will increase the awareness capability within the facility, and provide a state-of-the art media delivery system, including displays, an interactive projector, audio conferencing system, and audio. This system can be used for training functions, event briefings, and other presentations.

IT Network/Hardware/Structural Cabling: \$147,736.99

Martin County received a quote from SoundSide Group for workstations, network hardware, backup storage, CAD servers, individual UPS, software, cabling and labor. The provision of hardware and software to support the mission of the PSAP is critical to allow functionality to properly occur. Cabling infrastructure to support the facility and critical 911 systems will be installed with the technology equipment.

Internet Connectivity between new and legacy PSAP: \$68,216.40

Martin County submitted a quote last year from CenturyLink to support both the proposed and legacy PSAPs to allow redundant functionality of network services. The Metro-E includes monthly recurring charges of \$1,082 for 60 months and \$48.00 of non-recurring. A 5 percent increase has been added to this quote.

911 Console Furniture and Chairs: \$141,484.80

Martin County submitted a quote last year from Evans Consoles for dispatch workstation chairs and console furniture. The quotes have been updated to reflect the six positions in the new EOC. The console workstations are estimated to be \$130,984.80, while the chairs are estimated to be \$10,500.

Office Furniture: \$17,257.88

Martin County submitted a quote last year from FSI Office for furniture to support functional areas within the facility, other than the 9-1-1 center. FSI Office included a discount of list price. A 5 percent increase was added to this quote.

Generator: \$53,475.24

Martin County submitted a quote last year from Forrest Generator Services for a generator to support the new PSAP. The vendor indicated the price is still accurate. A 5 percent increase was not added to this quote.

Consultative and Professional Services: \$370,800.

Martin County desires to continue its relationship with Mission Critical Partners and to have them provide program management support through the completion of the project. The support will address technology integration, procurement support, migration planning, detailed timeline development, vendor coordination, and managing grant requirements, including reporting. Professional Services fees relating to Mission Critical Partners' work will be funded

within the grant award.

The technology budget and professional services is estimated at **\$2,085,398.98**.

**28. State how you will follow applicable procurement law, rules, and policies.**

All necessary services to support the PSAP grant project, as well as equipment and furnishings for the PSAP, will be procured by Martin County. Equipment and furnishing will be the property of Martin County.

Martin County and its Finance Director will act as the fiduciary agent for this project. Therefore, the responsibility of ensuring all applicable procurement laws, rules, and policies are followed will fall on Martin County's Finance Director. This will be accomplished by following existing County procurement policies, which are in accordance with Article 8 of the North Carolina General Statutes, specifically §143-129, which establishes the procedures for formal bidding and §143-131, which establishes the procedures for the informal bid process.

§143-64.31, Declaration of public policy, and §143-128.1A, Design-build contracts, (if applicable), will be followed. A Request for Qualifications (RFQ) will be issued to identify interested architectural/engineering firms for design services. Responses will be evaluated and a firm selected based on identified criteria within the RFQ. Contract negotiations, including costing, will follow with the firm deemed best qualified by Martin County.

New technology will follow the requisite bidding processes, allowing for competitive procurements in most instances. Where current systems will transition to the new facility or be upgraded, current vendor relationships will continue, as is the case with the recently installed CAD system.

In addition, the documenting of all project expenses, payments, etc. will be in accordance with Generally Accepted Accounting Principles, as set forth by the Financial Accounting Standards Board. The project will also comply with any additional requirements that may be set forth in a project contract.

**29. If the project will have ongoing expenses, such as monthly recurring charges, describe plans and specific sources for future/long-term funding and demonstrate how the project will be sustained in the future without additional 911 Grant Program funding.**

The capital costs requested within this grant are anticipated to be costs incurred one-time or infrequently. Future upgrades or replacement will use 9-1-1 surcharges, where eligible. As noted in the Interlocal Agreement, Martin County will provide additional funding for capital costs, as authorized by Martin County Board of Commissioners.

Recurring costs of maintaining the facility and planned systems are within the current or future revenue capacity of both Martin and Bertie counties.

Martin County will be fully responsible for the operational cost of the Martin County Regional PSAP. The purchase and maintenance of all equipment necessary to **receive** calls, radio transmissions, and data at the locations (or vehicles) of participating jurisdictions will be the responsibility of the jurisdictions.

Each jurisdiction will be responsible for purchasing and maintaining its own records/data management module and related CAD interface. Access to internal CAD information via the internet may also be an option, and will be funded by each participating jurisdiction.

## Evaluation

***All applications must include evaluation information. The final report shall include an evaluation demonstrating that the equipment or services funded by the grant have been purchased, installed/implemented, and are performing as expected.***

### **30. Explain how your evaluation will measure the achievement of the goals and objectives identified in the Project Description with a timeline for meeting short, intermediate, and long term goals.**

A project charter will be developed based on a grant award. This charter will define goals, identify stakeholders, refine the scope, and provide a timeline of the overall project. The key stakeholders will accept the project charter by signature acknowledgement. Progress reports at pre-determined intervals will be based on measured progress compared to the project plans. The measurement will be made by determining if the tasks, activities, and milestones were successfully completed within the projected timelines.

Due to the scope and complexity of this project, funds are being requested as part of the project to contract with Mission Critical Partners for procurement and implementation/integration services and to hire an architect/engineer for design services and to support the Martin County Facilities Department in overseeing completion of construction and to provide construction management services to the Martin County 9-1-1 Director (Project Manager). Although an additional cost to the project, contracting with those with the expertise will help to keep the project on time and within budget.

Once identified, the Martin County 9-1-1 Director will work closely with the architect/engineer and Mission Critical Partners through a County project team to develop a detailed timeline to include milestones. These milestones are likely to be identified in a series of project phases that make up the project's overall timeline of 24–30 months. For example, one phase would likely be mobilization, which is the phase when the existing site is cleared in preparation for construction and an architect is competitively selected for design. Milestones would likely include site preparation, facility foundations, facility construction, technology procurement, installation, commissioning, and testing, etc. The timeline will also include the design of the final facility and bidding processes.

Subsequent phases will involve facility technology procurement, integration of technology and facility systems, and migration for operations.

The Martin County 9-1-1 Director can expand the team based on a particular task to be performed. Team members could consist of members from Martin County government who have expertise in the particular task. For example, IT staff could provide oversight to ensure all milestones relating to network and technology systems are being met. These teams will work closely with the Martin County 9-1-1 Director and Mission Critical Partners to ensure milestones are being met or to provide support to ensure all required grant progress reports are submitted as necessary.

All communications, activities, and deliverables will be maintained in a central project location. Bi-weekly project team and stakeholder communications (more or less frequently as required) will occur in the form of conference calls or face-to-face meetings as appropriate;] all meetings will be documented, shared, and maintained in the central project file. All required grant program reporting will be conducted by the Martin County 9-1-1 Director.

A tentative project timeline of milestones is listed below, assuming grant award. Grant award is month zero.

#### Facility Tasking

Prepare a request for proposal (RFP) for a design architect/engineering firm – Month 1  
Select and hire design architect – Month 2  
Complete regulatory review – Month 3  
Complete design – Month 10  
Bid construction – Month 11  
Select contractor and begin construction – Month 12  
Allow technology vendor access to facility – Month 25  
Complete construction – Month 26  
Integrate technology – Month 27  
Commission and occupy new center – Month 28

#### Technology Tasking

Establish equipment/systems parameters/review budgets – Month 3  
Finalize requirements – Month 5  
Develop RFPs or statements of work (SOWs) for vendors – Month 10  
Issue RFPs/SOWs – Month 13  
Evaluate vendor responses/select vendors – Month 15  
Procure systems – Months 16–24  
Install equipment – Month 25  
Test/accept systems – Month 27  
Train for cutover/migration plan – Month 28  
Complete migration plan – Month 29  
Cutover to new facility – Month 30

### **31. Describe how evaluations will be conducted, including performance parameters which must be met in order to meet acceptance criteria.**

County staff and Mission Critical Partners, as well as respective vendors where appropriate, will evaluate each milestone activity for completion to the satisfaction of the contracted scope of work. Training, testing, and acceptance plans for each component will be overseen by Martin County, with assistance from Mission Critical Partners, and results will be documented. Any milestone or cutover will not be accepted until contracted results are proven within the designated period.

Status calls and meetings will be facilitated by the Martin County 9-1-1 Director and/or Mission Critical Partners as required. Minutes from these meetings and other relevant documentation will be shared with stakeholders based on their individual participation, level of authority, or need to know as determined during the stakeholder identification process. Throughout the project, additional stakeholders, risks, and ways to mitigate risks may be identified. These will be communicated to the project team and granting entity.

The Martin County 9-1-1 Director, Mission Critical Partners, and staff contracted for architect/engineer services will be responsible for documenting evaluations. These evaluations will be conducted as needed, but at minimum at the end of each project phase and at other intervals identified in the grant contract. Evaluation times could be adjusted during the course of the project, if deemed appropriate.

During the construction phase of the project, performance parameters used by the architect/engineer will be those typically associated with construction, such as passing various required inspections and ultimately the issuance of a Certificate of Occupancy. Other phases will have 9-1-1, construction, and/or technology industry standards associated with them.

### **32. Identify how data will be collected and presented**

All documentation related to the grant project, including meeting minutes, project schedules, programming, design documents, construction drawings, proposals, contracts, change orders, etc. will be maintained in a dedicated project folder maintained by the project manager.

During the life of the grant project, a monthly progress report will be submitted to the North Carolina 911 Board indicating the current activity for the month, as well as that planned for the subsequent month. Activities to be presented included: design, permitting, construction, and communications systems. The activities will be expanded upon as the facility nears substantial completion and systemization activities are underway.

Attachment 1

Interlocal Agreements/Resolution of Support

These attachments pertain to questions 5 and 12.

**RESOLUTION SUPPORTING THE APPLICATION FOR A GRANT  
FROM NORTH CAROLINA 911 BOARD**

WHEREAS, Bertie County and Martin County currently operate Public Safety Answering Points or PSAP's providing service and answering 911 calls in their respective jurisdictions; and

WHEREAS, the current PSAP's providing service and answering 911 calls for Bertie County and Martin County are handled through a system financed, in part, from 911 surcharge funds provided by the North Carolina 911 Board under G.S. 62A-46(c); and

WHEREAS, the North Carolina 911 Board will soon commence its PSAP Grant Program; and

WHEREAS, Martin County plans to apply for funding through the PSAP Grant Program for the relocation of its primary PSAP; and

WHEREAS, through NC General Statutes 62A-46(e)(4a), the State of North Carolina requires a PSAP to have a plan and means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP; and

WHEREAS, through the PSAP Grant Program application referenced above, Bertie County and Martin plan to jointly apply for grant funding to provide back-up PSAP service for the PSAP's and citizens of both counties on a regional basis; and

WHEREAS, Bertie County Board of Commissioners and the Martin County Board of Commissioners support the regional effort to cooperatively provide for the back-up PSAP needs of Bertie and Martin Counties in a cost effective way; and

WHEREAS, by this Resolution, the Bertie County Board of Commissioners and the Martin County Board of Commissioners intend to authorize and to support an application for grant funding under the PSAP Grant Program adopted by the North Carolina 911 Board.

NOW, THEREFORE, BE IT RESOLVED by the Board of Commissioners of Bertie County and Martin County, each being a government body located in North Carolina, that individually and jointly each of the governmental bodies expresses its support for the relocation of the Martin County PSAP; and

FURTHERMORE, BE IT RESOLVED by the Board of Commissioners of Bertie County and Martin County, each being a government body located in North Carolina, that individually and jointly each of the governmental bodies:

1. Expresses its support for the provision of regional back-up PSAP facilities for the PSAP's and citizens of both counties on a regional basis through utilizing the existing Martin County Primary PSAP and relocated Martin County Primary PSAP proposed; and
2. Agrees to facilitate and finance, or partially finance, the operation and maintenance costs for the provision of back-up PSAP facilities for the PSAP's and citizens of both counties on a regional basis through the existing Martin County PSAP and relocated Martin County PSAP proposed; and

3. Authorizes and supports the application for a grant under the PSAP Grant Program from the North Carolina 911 Board when the applications for funding become available; and
4. Agrees that in order to facilitate the application and granting process, the application shall be submitted and any grant funds received shall be administered with Martin County acting as the lead agency for such purposes.

This Resolution is adopted by each of the governmental bodies set out below, but executed in counterparts pursuant to authority duly given by official action of the governing body on the date indicated below.

**BERTIE COUNTY BOARD OF COMMISSIONERS**

  
Chairperson

1-21-16  
Date

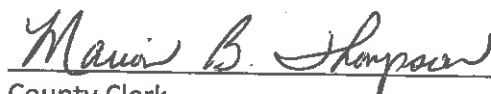
Attest:

  
County Clerk

**MARTIN COUNTY BOARD OF COMMISSIONERS**

  
Chairperson

Attest:

  
County Clerk

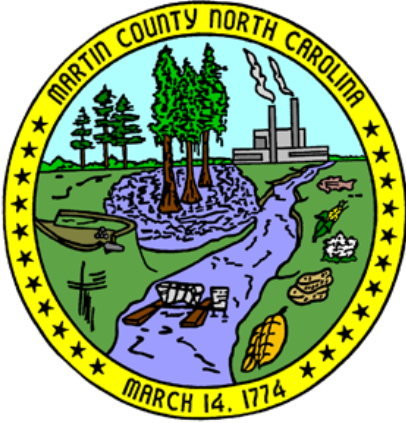


12/16/15  
Date



Attachment 2  
Regional PSAP Feasibility Study

This attachment pertains to questions 5 and 27.



# Regional Backup Feasibility Assessment for Martin County

## FINAL REPORT

SUBMITTED MAY 2016 TO:  
MARTIN COUNTY, NORTH CAROLINA



**MissionCriticalPartners**

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## **1. BACKGROUND**

### **1.1. ENHANCED 9-1-1**

In 1989, the Public Safety Telephone Act (North Carolina General Statute Chapter 62A) became law and recognized 9-1-1 as the toll-free number for the public to reach emergency services within the state. The Act defines a public safety answering point (PSAP) as “[t]he public safety agency that receives an incoming 911 call and dispatches appropriate public safety agencies to respond to the call.” The Act further defines a Primary PSAP as “[t]he first point of reception of a 911 call by a public safety answering point.”<sup>1</sup>

The Martin County 9-1-1 Center (9-1-1) is the primary PSAP for Martin County, receiving 9-1-1 calls for nine towns, including Williamston (county seat), and the unincorporated areas of the county. Martin County 9-1-1 operates from the Martin County Government Complex located at 305 East Main Street in Williamston.

The Bertie County 9-1-1 Center (9-1-1) is the primary PSAP for Bertie County, receiving 9-1-1 calls for eight towns, including Windsor (county seat), and the unincorporated areas of the county. Bertie County 9-1-1 operates from the Bertie County Sheriff’s Office located at 104 Dundee Street in Windsor. The Sheriff’s Office, and subsequently the 9-1-1 Center, will be re-locating in the near future to a renovated facility on County Farm Road near the jail.

All counties in North Carolina provide enhanced 9-1-1 (E9-1-1) and wireless Phase I and Phase II services. Martin County 9-1-1 and Bertie County 9-1-1 receive automatic number identification (ANI) and automatic location identification (ALI) information for all wireline calls placed to 9-1-1. Wireline 9-1-1 calls originate from a subscriber’s telephone through the serving telephone central office. The central office routes a call through a selective router and completes the call to the appropriate primary PSAP based on the calling party’s phone number and associated street address, which is linked to an emergency service number (ESN). Dedicated 9-1-1 centralized automatic message accounting (CAMA) trunks provide connectivity between the tandem switch (selective router) and the respective 9-1-1 center. Voice communications with a 9-1-1 caller is provided by the 9-1-1 center. The phone number originating the 9-1-1 call and the caller’s location are displayed at the 9-1-1 centers. The caller’s originating phone number is used to retrieve the caller’s location information from the ALI databases.

For 9-1-1 wireless calls, PSAPs that are Federal Communications Commission (FCC) Phase I-compliant receive the caller’s wireless number and the address of the tower transmitting the call. PSAPs that are FCC Phase II-compliant receive the caller’s wireless number and location, based on global positioning system (GPS) information transmitted to the PSAP from the wireless service provider (WSP). Both Martin and Bertie counties are wireless Phase II-compliant.

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<sup>1</sup> <http://www.ncga.state.nc.us/gascripts/Statutes/StatutesTOC.pl?Chapter=0143B>



Delivery of wireless 9-1-1 calls is accomplished utilizing network facilities provided by CenturyLink and the different WSPs. The routing of a wireless 9-1-1 call is more complicated than that of a wireline 9-1-1 call, as the subscriber is mobile and the technology in place today to route a wireless 9-1-1 call is still somewhat limited.

A wireless 9-1-1 call originates from a subscriber's device and is transmitted via a radio signal over the wireless carrier's network to a base station/antenna located at one of the respective carrier's tower sites. The base station sends the 9-1-1 call to the WSP's mobile switching center (MSC) for proper call processing. The MSC uses a service-control-point database to assign an emergency service routing key (ESRK) number based on the tower site from which the call originated. A primary PSAP designation is assigned to each ESRK in the database. From the MSC, the 9-1-1 call is connected to CenturyLink's tandem/selective routers within the telephone network. The call is then routed from the tandem switch/selective router and passed to the respective 9-1-1 center via the same dedicated CAMA trunks used for wireline calls.

## **1.2. NEXT GENERATION 9-1-1**

While many think Next Generation 9-1-1 (NG9-1-1) is still three to five years away, in reality, NG9-1-1 is here now and in various stages of implementation across the country.

The National Emergency Number Association (NENA) defines NG9-1-1 as a system comprised of Emergency Services Internet Protocol (IP) networks (ESInets), IP-based software services, and applications, databases, and data management processes that are interconnected to PSAP premise equipment. The system provides location-based routing to the appropriate emergency entity. The system uses additionally available data elements and business policies to augment PSAP routing. The system delivers geodetic and/or civic location information and the call back number.

The NG9-1-1 system supports the transfer of calls to other NG9-1-1-capable PSAPs or other authorized entities based on and including accumulated data. NG9-1-1 provides standardized interfaces for call and message services, processes all types of emergency calls including non-voice (multimedia) messages, and acquires and integrates additional data useful to call routing and handling for appropriate emergency entities. NG9-1-1 supports all E9-1-1 features and functions and meets current and emerging needs for emergency communications from a caller to public safety entities.

## **2. LEGISLATED BACKUP PSAP PROVISIONS**

The 2013 session of the General Assembly of North Carolina introduced amendments to General Statute 62A, Public Safety Telephone Service and Wireless Telephone Service, to include provisions for a backup PSAP. Article 3, Emergency Telephone Service, §§ 62A-40 through 62A-56 was recodified as G.S. 143B-1400 through 143B-1416 by Session Laws 2015-241.<sup>2</sup>

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<sup>2</sup> Appendix A contains copies of the referenced legislation.



§ 143B-1400, Definitions, (6) defines a Back-up PSAP as follows: *“The capability to operate as part of the 911 System and all other features of its associated primary PSAP. The term includes a back-up PSAP that receives 911 calls only when they are transferred from the primary PSAP or on an alternate routing basis when calls cannot be completed to the primary PSAP.”*

§ 143B-1402, Powers and duties of the 911 Board, (a)(1) includes the text *“...ensure individual PSAP plans incorporate a back-up PSAP...”* § 143B-1402(a)(4) states, *“...to establish policies and procedures to fund advisory services and training for PSAPs, to set operating standards for PSAPs, and back-up PSAPs, and to provide funds in accordance with these policies, procedures, and standards.”*

§ 143B-1406(a), Fund distribution to PSAPs, states: *“The Board may reduce, suspend, or terminate distributions under this subsection if a PSAP does not comply with the requirements of this Part.”*

§ 143B-1406(f)(5) states, *“By July 1, 2016, a PSAP must have a plan and means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP. If a PSAP has made substantial progress toward implementation of the plan and means, the 911 Board may grant the PSAP an extension until July 1, 2017, to complete implementation of the plan and means. The plan must identify the alternative capability of taking the redirected 911 calls. This subdivision does not require a PSAP to construct an alternative facility to serve as a back-up PSAP.”*

In essence, all primary PSAPs are mandated to have a functioning backup PSAP that can perform the same tasks and duties as the primary. The North Carolina 911 Board has stated in its operating standards that the backup PSAP, when staffed, shall be capable of performing the emergency functions performed at the primary. The backup PSAP shall be separated geographically from the primary PSAP at a distance that ensures the survivability of the alternate center.

To this end, Martin and Bertie counties have entered into discussions for Martin County to serve as Bertie County’s backup and to provide space for Bertie County 9-1-1 to operate should the need arise.

### **3. FACILITY NEEDS ASSESSMENT**

The Martin County Government Complex, located at 305 East Main Street, Williamston, houses numerous governmental offices, including the County Manager, Board of Elections, Finance, Register of Deeds, Social Services, Tax Assessor and Collector, Water Department, the Sheriff, and Martin County 9-1-1. The governmental complex also houses the County Courthouse, the Magistrate, and the Clerk of Superior Court. While these offices are not uncommon for a governmental facility, it creates a large amount of foot traffic.

While Martin County 9-1-1 is in a secured area (electronic door locks) on the first floor of the facility, the building itself, built in 1983, does not have modern security technology. The parking area is open to pedestrian and vehicle traffic. While this may not pose an immediate threat to persons entering or



exiting the facility during normal business hours, it may pose risks to staff reporting and departing the facility for shift work as there is no direct access to the Martin County 9-1-1 Center. In addition, if staff were to go outside for a break or to access a smoking area, they could potentially be exposed to threats from individuals in the open area.

The current Martin County 9-1-1 Center has numerous challenges and risks.

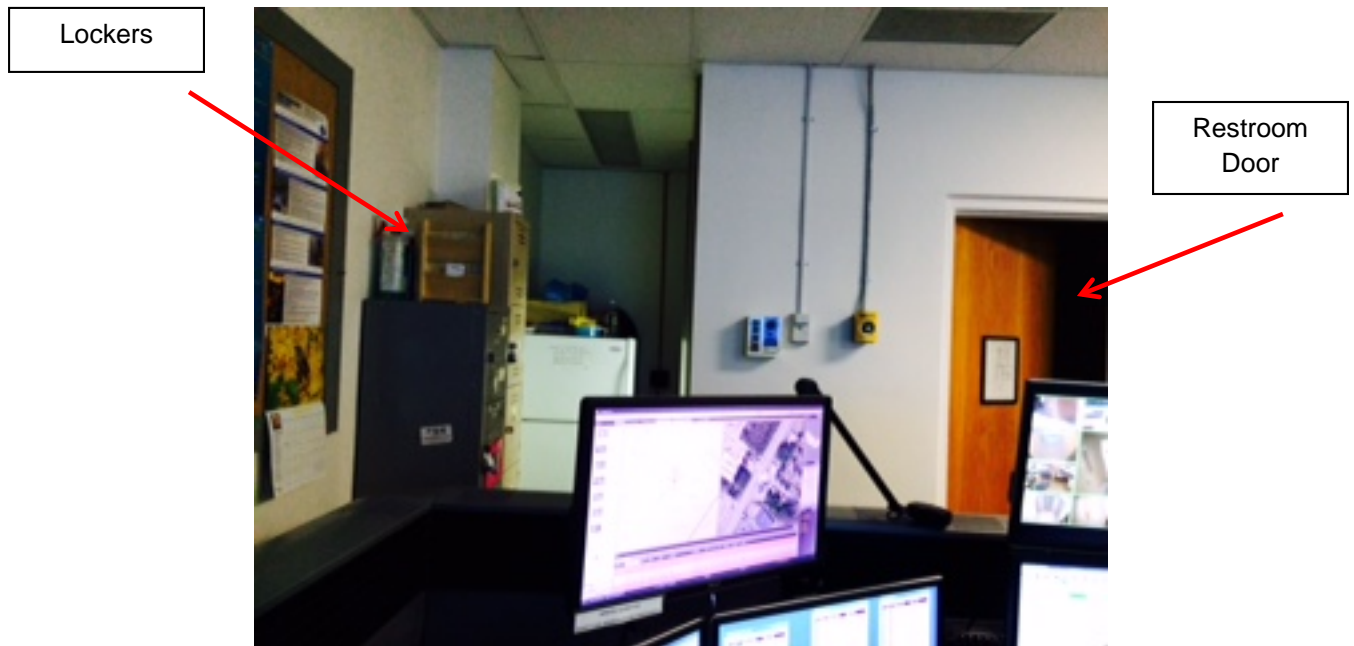
- The physical space for 9-1-1 operations can only accommodate three workstations. (Figure 1)  
There is no room for expansion to accommodate future growth.



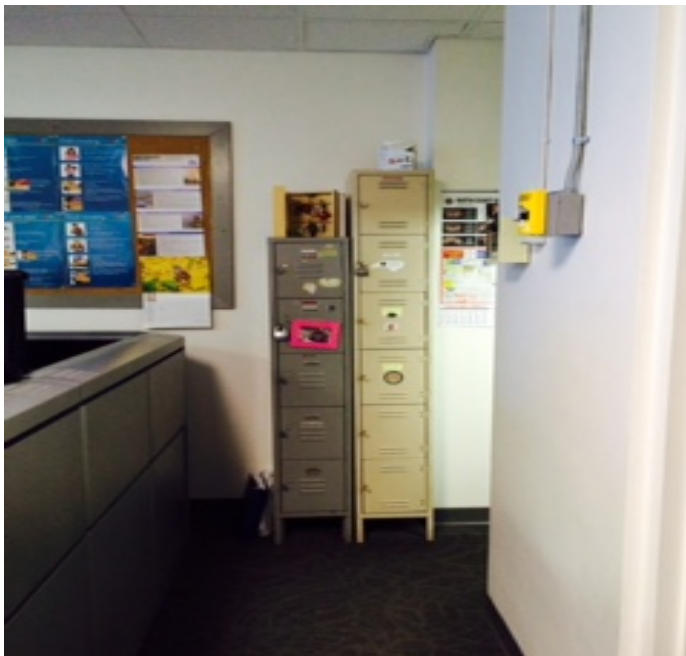
**Figure 1: Martin County 9-1-1**

- There is a small kitchen area directly off the operations area. Just outside the kitchen are the lockers and a restroom. (Figures 2 and 3)
- There is one restroom located within a few feet of the workstations, affording little privacy. (Figure 4)

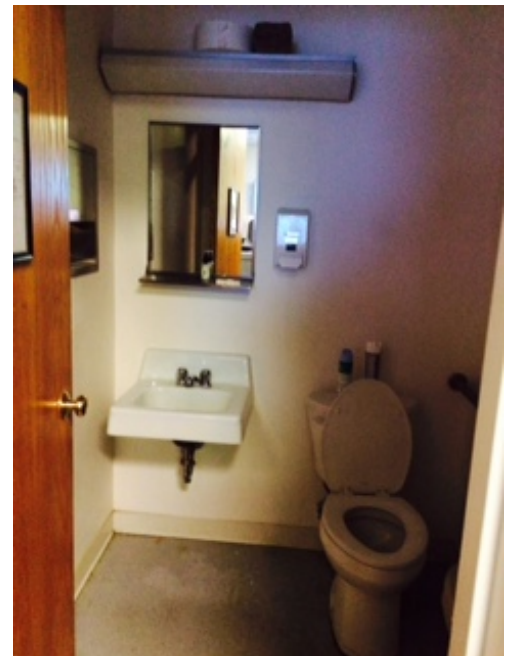




**Figure 2: View of Kitchen and Restroom**



**Figure 3: View of Lockers**



**Figure 4: Shared Restroom**

- The primary entry into the 9-1-1 area is from a building corridor through a secure doorway that opens directly into the director's office area. (Figure 5) The director's area has no privacy as it is open to the 9-1-1 workstation area. This configuration does not allow the director to counsel



staff, when needed, privately, or to conduct any confidential necessities, such as Human Resource concerns.

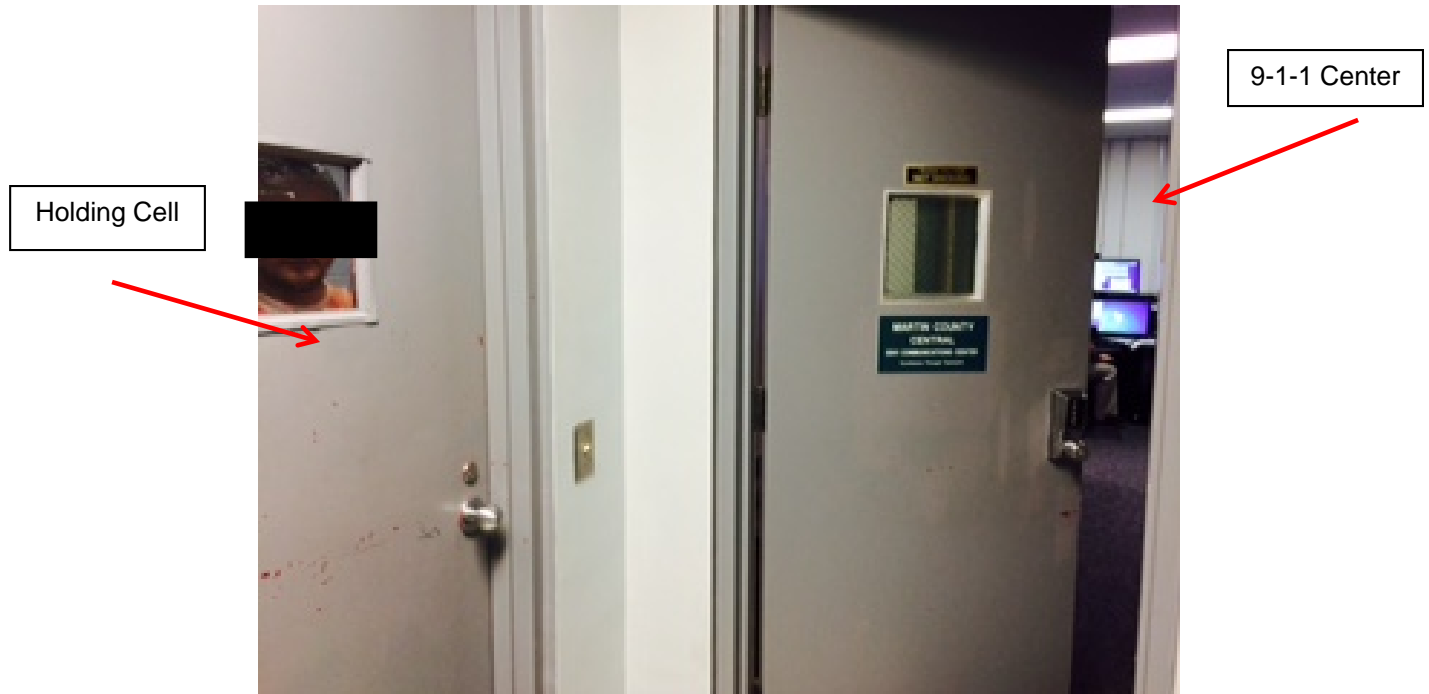


**Figure 5: Director's Work Area**

- 9-1-1 operations is located directly under the second floor restroom. This creates a risk for water damage should there be issues above.
- There is little to no storage space.
- There is no training area for new employees or continuing education.
- There are no means to accommodate staff in the event of inclement weather or disaster operations, during which staff must often stay at the center. In the past, staff have set up cots in the director's work area and the 9-1-1 area.
- The server/data room is converted office space and was not designed with the needed functional elements to host computer equipment. The heating, ventilation, and air conditioning (HVAC) is inadequate to support the cooling needs for the equipment.
- Of greater concern than the physical space and its limitations is the proximity to the holding cells for the Sheriff's Office; multiple prisoners are often held at one time, particularly on court days. Both the 9-1-1 area and the director's work area are directly adjacent to the holding cells. The



areas are separated by a single door with a magnetic keypad lock. The door jamb frame is of standard metal frame construction. Security is an obvious concern. (Figure 6)



**Figure 6: Holding Cell Adjacent to 9-1-1 Center**

While the existing space functions for Martin County 9-1-1, it is far from ideal and does not afford the opportunity to temporarily house 9-1-1 personnel from neighboring counties for backup purposes.

Martin County 9-1-1 staff would benefit from an improved layout and ancillary spaces to improve operational efficiency. The current space is confining. Providing additional circulation space and providing a private office for the director can improve operational working conditions and provide a more productive atmosphere for all staff. A higher ceiling, direct/indirect lighting, and some natural lighting are also recommended. The current location does not provide a quiet room or other private space to allow staff to recover from a stressful situation. Providing both interior and exterior space for individuals to decompress and relax may benefit staff performance.

A new 9-1-1 Center should include workstation space for Martin County; Bertie County, should the counties agree to a backup concept; and an expansion area for regional backup capabilities. The expansion area would ultimately provide additional workstation space should another county, such as Washington, decide to pursue a backup agreement with Martin County. Until such time, this space could also house training workstations that could also serve as overflow positions during critical incidents where additional personnel are deployed.



In addition to the 9-1-1 operational area, thinking long-term, individual office space or work areas should be planned for the following, whether or not a position is actually authorized:

- 9-1-1 Center Director
- Training/Quality Assurance
- Geographic Information System (GIS)/Mapping
- Information Technology (IT)

Again thinking long-term, the following support spaces should be considered:

- Showers
- Conference/Training Room
- Quiet/Decompression Room
- Public Lobby/Transaction Window (limited use)
- Public Restroom

An initial programming study has been prepared to assist Martin County with space requirements, which is included as Appendix B. The programmed space also includes a locker area for personal belongings, expanded areas for IT support, and dedicated power and mechanical systems.

A budgetary cost estimate, based on the initial programming study, has also been prepared. This document is included in Appendix B.

A new facility can be designed to support Martin County for the foreseeable future. A purpose-designed, purpose-built facility allows for expansion should additional counties elect to participate in a regional backup facility and provides an environment that can improve overall operations of Martin County 9-1-1.

## **4. OPERATIONS ASSESSMENT**

### **4.1. MARTIN COUNTY**

Martin County Communications (9-1-1) is a stand-alone department with an authorized strength of nine full-time employees, which includes a manager/director and eight telecommunicators. Martin County 9-1-1 serves an estimated population base of 23,357 within a 461 square mile area.

Martin County 9-1-1 operates four 12-hour shifts that are responsible for coverage 24 hours a day, 7 days a week, 365 days a year. The staff work two days on, two days off; three days on, two days off; two days on, three days off. Every other weekend is a 3-day weekend.

Martin County 9-1-1 operates in a vertical dispatch configuration; that is, there is no division of responsibilities between the call take and dispatch functions. The staff handles a call from beginning to end, and at the same time is responsible for dispatching first responders and monitoring radio traffic.



Many centers similar in size to Martin County 9-1-1 operate in this configuration, as call and incident volumes do not necessitate the need for horizontal operations (separate call take and dispatch responsibilities). However, in a vertical configuration, the staff at times must determine which takes precedence—handling a call presenting a life-threatening situation or dispatching responders to an officer needing assistance. While it is helpful to be able to rely on other staff members, one may not be available to assist.

Martin County 9-1-1 provides call taking and dispatching services for the following agencies:

- Martin County Sheriff's Office
- Williamston Police
- Robersonville Police
- Williamston Fire Department
- Robersonville Fire Department
- Jamesville Fire Department
- Oak City EMS
- Robersonville EMS
- Martin County Animal Control
- Williamston Public Works
- Hamilton Fire Department
- Oak City Fire Department
- Bear Grass Fire Department
- Griffins Township Fire Department
- Jamesville EMS
- Hamilton EMS
- Robersonville Public Works
- Hamilton Public Works
- Oak City Public Works
- Jamesville Public Works

As with many agencies similar to Martin County 9-1-1, the majority of incoming calls are received on administrative lines; approximately 60 percent of the overall volume. Table 1 depicts the breakdown of calls for 2013–2015.

**Table 1: Martin County Call Volume**

	2013	2014	2015
9-1-1	15,344	20,392	19,852
10-digit	23,323*	32,112	29,184
<b>Total</b>	<b>38,667</b>	<b>52,504</b>	<b>49,036</b>
* Data is unavailable for this year. The number used is estimated based on the percentage of 9-1-1 calls to 10-digit calls.			

Table 2 depicts the incident volume for 2013–2015.

**Table 2: Martin County Incident Volume**

	2013	2014	2015
Law Enforcement	23,583	20,789	21,543
Fire	3,873	4,912	5,501
EMS	4,485	4,903	4,763
<b>Total</b>	<b>31,941</b>	<b>30,604</b>	<b>31,807</b>



Martin County 9-1-1 currently utilizes Emergency Medical Dispatch (EMD) protocols and will begin using Emergency Fire Dispatch (EFD) protocols in late June 2016. The International Academies of Emergency Dispatch (IAED) defines a protocol as “a highly-defined procedure placed into a reference system...designed to lead the calltaker through a predictable, repeatable, and verifiable process for a specific situation.”<sup>3</sup> “Protocols have become an integral part of modern day, emergency dispatch operations. Protocols reduce variance, ensure a continuity of care, reduce liability, standardize response decisions, and provide a basis for performance measurement and quality improvement efforts.”<sup>4</sup>

Protocols involve a set of scripted questions designed to elicit as much information from the caller as possible.<sup>5</sup> At case entry, essential information is gathered in a standardized format, including the address of the incident, the caller's phone number and name, and the problem. Once the problem or “Chief Complaint” has been identified, questioning continues to help assess scene safety, prioritize the response, select appropriate instructions for the caller, and provide pertinent information for responders. The questions are designed to be asked verbatim and in order. Where the answer is obvious, questions may be skipped. Post-dispatch instructions are designed to ensure responders' and the caller's safety. If necessary, pre-arrival instructions—potentially life-saving, scripted instructions—are provided.

Currently Martin County 9-1-1 has sufficient staff to handle its call and incident volume. However, to staff two positions 24 hours a day, 7 days a week and afford time off, staff must cover for one another, leave a position open, or have the manager cover. This can create an unnecessary burden on staff, and may diminish services provided to citizens and first responders if a position is unstaffed. In Mission Critical Partners' experience, it takes slightly over four to five people to staff one position 24 hours day, more if leave time is excessive.

The introduction of an additional protocol in late June may have an effect on staffing. Protocol usage takes time as scripted questions must be asked, as well as post dispatch instructions and case exits. Pre-arrival instructions when necessary lengthen the time spent on calls. Mission Critical Partners recommends that once EFD is implemented, Martin County 9-1-1 evaluate the impact to staff and call and incident processing times. It may be necessary at that time to increase authorized staffing by one full-time position. This position could cover staff leaves and/or work a power shift to cover the busier times in the center.

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<sup>3</sup> The National Academies of Emergency Dispatch® (2011) *Emergency Telecommunicator Course Manual*, Edition 3. Salt Lake City, Utah: Priority Press.

<sup>4</sup> <http://www.9-1-1magazine.com/Patterson-Protocols-0804>

<sup>5</sup> While there are numerous vendors for dispatch protocols, the terminology and information referenced is from Priority Dispatch; other vendors may have slightly differing terms and sequencing. This is just intended to provide an example.



## 4.2. BERTIE COUNTY

Bertie County Communications (9-1-1) is a division of the Bertie County Sheriff's Office with an authorized strength of nine full-time and two part-time employees, which includes a communications supervisor. Bertie County 9-1-1 serves an estimated population base of 20,199 within a 741 square mile area.

Bertie County 9-1-1 operates four 12-hour shifts that are responsible for coverage 24 hours a day, 7 days a week, 365 days a year. The staff work two days on, two days off; three days on, two days off; two days on, three days off. Every other weekend is a 3-day weekend.

Like Martin County 9-1-1, Bertie County 9-1-1 operates in a vertical dispatch configuration. Bertie County 9-1-1 provides call taking and dispatching services for the following agencies:

- Bertie County Sheriff's Office
- Windsor Police
- Lewiston Police
- Aulander Police
- Bertie County EMS
- Bertie County Volunteer Fire (12 departments)
- Forestry
- Wildlife
- North Carolina Department of Transportation

The majority of incoming calls are received on administrative lines; greater than 77 percent of the overall volume. Table 3 depicts the breakdown of calls for 2013–2015.

**Table 3: Bertie County Call Volume**

	2013	2014	2015
9-1-1	13,143	13,328	14,791
10-digit	53,515	50,968	49,970
<b>Incoming Total</b>	<b>66,658</b>	<b>64,296</b>	<b>64,761</b>
Outbound	21,285	20,660	20,073
<b>Total</b>	<b>87,943</b>	<b>84,956</b>	<b>84,834</b>

Table 4 depicts the incident volume for 2013–2015.

**Table 4: Bertie County Incident Volume**

	2013	2014	2015
Law Enforcement	10,648	10,406	9,898
Fire	832	801	830
EMS	3,200	3,200	3,425
<b>Total</b>	<b>14,680</b>	<b>14,407</b>	<b>14,153</b>





Bertie County 9-1-1 does not currently use scripted protocols. Pre-arrival instructions have become a standard of care within the industry and a public expectation. The April 1, 2010, *Public Safety Communications* (Volume 76, Issue 4), noted that “Many civil suits related to 9-1-1 in recent years have stemmed from the failure to provide pre-arrival instructions...it's apparent that lack of an EMD program or failure to adhere to an existing program can be a source of liability...”<sup>6</sup> The inability to receive assistance can also be distressing to a caller who is looking to the 9-1-1 center for a lifeline.

Protocol usage, particularly EMD, is a best practice. Mission Critical Partners encourages the implementation of EMD as soon as possible or a working arrangement with the EMS provider to provide pre-arrival instructions when the need arises.

Bertie County 9-1-1 has sufficient staff to handle its call and incident volume, particularly with part-time staff. If the County chooses to implement EMD, current staffing should be sufficient to handle the operational changes.

#### **4.3. OPERATIONAL CONSIDERATIONS**

Technology considerations aside, the primary operational consideration for Martin County 9-1-1 serving as a backup center for Bertie County is the support and handling of 9-1-1 calls.

Based on the respective 9-1-1 call volumes in the counties, it is quite likely that Martin County 9-1-1 staff can handle the increased call volume for a short while until Bertie County 9-1-1 staff arrive in Martin County. If there is an event in Bertie County that renders their 9-1-1 Center inoperative, there is a possibility that other citizens may be affected, resulting in an increased 9-1-1 call volume for which Martin County needs to be prepared.

Consideration must also be given to training Martin County 9-1-1 staff on the services Bertie County provides, the response agencies, and geographic locations, such as streets, prominent locations, and the like.

### **5. TECHNOLOGY ASSESSMENT**

As Martin and Bertie counties have entered into discussions for Martin County to provide space in a new facility for Bertie County 9-1-1 to operate should the need arise, technology, interoperability, and continuity of operations are of the utmost importance. The assumption is that Martin County will transition to a new facility with new technology, which was previously identified for a recent grant application, or their then-current technology.

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<sup>6</sup> <http://psc.apcointl.org/2010/04/01/mishandled-9-1-1-calls/>





Mission Critical Partners was tasked with evaluating the technology in use at both 9-1-1 centers and providing general recommendations on how to efficiently achieve the goal of providing a backup 9-1-1 center for Bertie County. Several factors were considered to ensure that a new Martin County 9-1-1 facility is able to also function as a backup facility:

- Implementation cost
- Practicality of equipment maintenance
- Staff impact(s)
- Training impact(s)
- Operational impact(s)

## **5.1. TECHNOLOGY CONFIGURATION**

There are several ways for Martin County to provide a backup solution for Bertie County in a new facility. Two configurations are the most suitable: dedicated workstations and technology or interoperable shared workstations and technology. Mission Critical Partners thinks both configurations can meet the needs of both 9-1-1 centers; however, the end result may be a hybrid of the two.

### ***5.1.1. Dedicated Workstations and Technology***

In this scenario, Martin County would establish a location in the new facility that would provide dedicated workstation furniture, computer aided dispatch (CAD) system positions, radio consoles, and telephony equipment that would stay at the ready for Bertie County 9-1-1 staff. The equipment room would house dedicated rack and network space for Bertie County technology. Bertie County would provide completely separate 9-1-1 customer premise equipment (CPE), CAD servers, and radio console central electronics bank (CEB) equipment, or similar equipment, for their consoles.

There are advantages and disadvantages to this configuration.

#### Advantages

- Equipment would remain in a state of readiness in the event that Bertie County 9-1-1 must evacuate their center.
- Equipment deployed in Martin County would be identical to the equipment in use at the Bertie County 9-1-1 Center.
- Training required of Bertie County staff would be minimal.

#### Disadvantages

- The transition plan would be more complex as Martin County 9-1-1 staff would be required to staff Bertie County consoles prior to Bertie County 9-1-1 staff arriving.
- Dedicated space in the Martin County facility would increase the size of the facility.
- The cost of purchasing dedicated equipment could double the technology budget for the new facility, as all Bertie County 9-1-1 equipment would be duplicated and would be independent of Martin County 9-1-1 equipment.



- Operating expenses of cooling the additional technology equipment could potentially increase.
- Maintaining the equipment as a hot standby (a perpetual state of readiness) would be burdensome as the equipment would only be used in the event of an actual activation or exercise.
- Maintenance of the equipment would place a significant burden on technology support staff.
- There will be additional costs to Bertie County that would not be shared with Martin County.

### **5.1.2. Interoperable Shared Workstations and Technology**

In an interoperable shared workstations and technology scenario, Martin County would ensure ample workstations in the new facility to support Bertie County 9-1-1. The workstations that Martin County 9-1-1 utilizes on a daily basis would be setup in a fashion so that Bertie County 9-1-1 staff would be able to utilize the equipment to maintain operations during an activation or exercise. Both counties will coordinate technology and technology purchases to the greatest extent possible. This coordination will lead to the highest level of interoperability possible.

There are advantages and disadvantages to this configuration.

#### Advantages

- Implementation cost is reduced, as opposed to the dedicated space option.
- Workstations would be available to Martin County staff for training or call overflow during heavy call volume periods, when not in use by Bertie County.
- Equipment maintenance would not be duplicated.
- Equipment could be utilized on a regular basis by Martin County 9-1-1 staff, ensuring it is in a state of readiness.

#### Disadvantages

- Increased coordination between Martin County and Bertie County staff would be necessary when acquiring new technology.
- User training would increase as the set up would not be an identical replica to Bertie County 9-1-1 workstations.
- Vendor coordination is required.

While both scenarios presented have distinct advantages and disadvantages, Mission Critical Partners thinks that shared workstations and technology will best meet the needs of Martin and Bertie counties,



while lessening the financial burden. Hybrid solutions of the dedicated scenario may also be implemented.

### **5.1.3. Workstation Requirements**

Currently Martin County 9-1-1 operates three workstations, while Bertie County 9-1-1 operates two workstations. Initial programming has maintained this number of workstations (five) in a new facility for both 9-1-1 centers. Based on current staffing levels and call and incident volumes, five positions will provide sufficient space for Martin County to host Bertie County 9-1-1 staff in the event of an evacuation of Bertie County's center. Essentially, both centers would operate the number of positions they do currently. When not in use by Bertie County, Martin County will have access to all five workstations if a shared workstation/technology environment is selected.

While ideally a sixth position could provide additional overflow space, the additional expense of a sixth position is not warranted at this time. Consideration should be made during facility programming, however, for adequate floor space for an additional sixth position and for expansion should the regional backup concept begin to gain traction in the surrounding counties.

## **5.2. 9-1-1 CUSTOMER PREMISE EQUIPMENT AND ADMINISTRATIVE PHONE LINES**

### **5.2.1. Martin County**

Martin County 9-1-1 implemented Intrado<sup>7</sup> VIPER 9-1-1 CPE with Power911 workstation equipment in February 2015. CenturyLink Communications sold and is responsible for equipment maintenance and repair. The Intrado VIPER 9-1-1 CPE appears to be the latest version of equipment and software.

Martin County 9-1-1 has seven CAMA trunks that deliver both wireline and wireless 9-1-1 calls. 9-1-1 calls are delivered via the selective router located in Rocky Mount, North Carolina. Martin County 9-1-1 has three 10-digit administrative phone lines. CenturyLink Communications is the local exchange carrier (LEC) and telephone provider of the administrative phone lines.

Martin County 9-1-1 does not currently accept Text-to-9-1-1 calls.

With appropriate planning, the new Intrado VIPER 9-1-1 CPE can be relocated to the new center.

### **5.2.2. Bertie County**

Bertie County 9-1-1 implemented the Airbus Sentinel Patriot CPE solution in 2011. Wireless Communication sold and is responsible for equipment maintenance. While the solution was

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<sup>7</sup> Intrado Corporation recently changed their name to West Corporation. Throughout this report they will be referred to as Intrado.



implemented in 2011, due to rapidly changing technology, the expected life span of 9-1-1 CPE equipment is generally four to seven years.

Bertie County 9-1-1 has two CAMA trunks that deliver both wireline and wireless 9-1-1 calls. 9-1-1 calls are delivered via the selective router located in Rocky Mount. Bertie County 9-1-1 has five 10-digit administrative lines. CenturyLink Communications is the LEC and telephone provider of the administrative phone lines.

Bertie County 9-1-1 does not currently accept Text-to-9-1-1 calls.

The expected life span of the current Airbus CPE solution is nearing the end of its expected life. Bertie County 9-1-1 staff have indicated that they are in the process of procuring a new CPE for their move with the Sheriff's Office to a renovated facility.

### **5.2.3. CPE and Telephone Considerations**

Mission Critical Partners encourages Bertie County to coordinate with Martin County during their procurement of a new CPE solution. Ideally, Bertie County 9-1-1 should consider procuring the Intrado VIPER 9-1-1 CPE to replicate the equipment in use by Martin County 9-1-1. Bertie County 9-1-1 must completely evaluate the features and functionality of the Intrado solution to ensure it meets their business and operational needs. While having the same CPE equipment is not required for a successful backup center, it will lessen the integration effort and operator training.

#### Option 1

In Martin County, the two CAMA trunks for Bertie County will be replicated in the new Martin County 9-1-1 Center for failover. Separate profiles can be built on Martin's County Intrado VIPER Power911 workstations that will allow Bertie County 9-1-1 staff to log in to the workstation and only have access to their respective trunk lines.

During the relocation to Martin County, the Bertie County 9-1-1 trunks can be rolled over and answered by Martin County 9-1-1 staff on the Martin County 9-1-1 trunk lines. Once Bertie County 9-1-1 staff has arrived and are prepared to begin operations from Martin County, CenturyLink can roll the trunk lines to the dedicated Bertie County 9-1-1 trunks to allow for the division of duties and responsibilities between 9-1-1 staff. As both 9-1-1 centers utilize the same selective router, provided by CenturyLink, ANI and ALI will transfer without issue. Bertie County 9-1-1 should confirm with CenturyLink that their failover plan includes an automatic roll-over to Martin County 9-1-1.

#### Option 2

As CenturyLink Communications provides 9-1-1 services to both Bertie County 9-1-1 and Martin County 9-1-1, an additional consideration is a hosted CPE solution, such as the CenturyLink One i3 solution. While Mission Critical Partners does not endorse any provider, the hosted solution may be a viable option. By utilizing a hosted solution, the answering positions in Martin



County 9-1-1 could be the exact replica of the Bertie County 9-1-1 positions. A hosted solution could significantly reduce the complications of backup planning and implementation. This solution may also simplify the backup planning once Text-to-9-1-1 or other NG9-1-1 functions are implemented.

With proper planning, administrative lines from Bertie County can be addressed in Martin County by either dedicated phone lines or simply sharing the existing administrative phone lines with Martin County. While sharing the existing administrative phone lines with Martin County will not allow for the complete division of duties once Bertie County 9-1-1 staff arrives, the expense of dedicated phone lines will be reduced on a monthly basis. Mission Critical Partners encourages Martin County to perform a trunk utilization study before finalizing a decision to share existing administrative phone lines. If the trunk utilization proves the three administrative lines in Martin County cannot adequately support the five administrative lines in Bertie County, additional administrative lines would need to be installed and configured in the Martin County administrative phone line switch. The proposed ShoreTel phone system appears adequate to handle the additional lines.

With Martin County's recent investment in the Intrado VIPER 9-1-1 CPE solution, the most cost effective option will be Option 1, to implement failover trunks for Bertie County. Budgetary estimates are provided for expected upgrade cost to add the additional trunk cards to the CPE. However, since Bertie County 9-1-1 is considering a CPE replacement, Mission Critical Partners encourages Martin and Bertie counties to work together to determine if a hosted solution is a better option that will meet both agencies' needs.

### **5.3. COMPUTER AIDED DISPATCH SYSTEMS**

#### **5.3.1. *Martin County***

At the time of this study, Martin County 9-1-1 was preparing to "go-live" with a Southern Software CAD system, replacing their TriTech CAD system. The new software will feature the full-suite of records management integration, EMD and EFD integration, automatic vehicle location (AVL) mapping, and mobile data.

The CAD system software and database will reside on a configuration of dual physical hardware servers.

#### **5.3.2. *Bertie County***

Bertie County utilizes Southern Software for both CAD and records management. The software was recently upgraded in 2015 to the latest release of the Southern Software platform. CAD and records management are fully integrated. However, neither EMD/EFD nor National Crime Information Center (NCIC)/State database interfaces are utilized.



The software resides on a single physical server.

### **5.3.3. CAD System Considerations**

When a new Martin County 9-1-1 Center is under construction, both 9-1-1 centers will be utilizing Southern Software as their CAD system software provider. As such, the complexity of sharing data will be reduced, but proper planning must occur. Southern Software will need to be engaged early in the planning process to ensure success.

Mission Critical Partners thinks Martin County 9-1-1 and Bertie County 9-1-1 should consider implementing CAD-to-CAD replication between their two CAD system environments. A network connection, utilizing a virtual private network (VPN) connection over the public Internet, will be established between the Martin County 9-1-1 CAD server and the Bertie County 9-1-1 CAD server. This connection will be a private virtual tunnel to exchange data for the CAD-to-CAD connection and data replication. Replication software, such as Zerto or Neverfail, will be deployed for replication of the servers and databases. This will ensure that the data stays current between the two servers.

Separate profiles will be established for Bertie County 9-1-1 staff on the Martin County 9-1-1 Southern Software server and CAD workstations. This will ensure that Bertie County 9-1-1 only has access to Bertie County data and/or vice versa. Appropriate security privileges will prevent Martin County 9-1-1 staff from accessing Bertie County data without appropriate administrative privileges.

GIS data should be merged into a single data set for CAD system mapping. By sharing GIS data from a single source, emergency response zones for both Martin and Bertie counties would be available to both agencies. This will allow 9-1-1 location data to plot appropriately for Martin County 9-1-1 staff during the transition period while waiting for Bertie County 9-1-1 staff to arrive, but also provides improved efficiency to handle misrouted 9-1-1 calls on a daily basis.

Other options may be available for Bertie County 9-1-1 to access their CAD system in the backup center; however, Mission Critical Partners thinks this option is the most suitable and cost effective.

## **5.4. RADIO SYSTEMS**

### **5.4.1. Martin County**

Martin County 9-1-1 utilizes a combination of very high frequency (VHF) and the North Carolina Voice Interoperability Plan for Emergency Responders (VIPER) trunked radio systems to communicate with emergency response personnel. The combination of the two systems equals a total of eight channels/talk groups.

Each dispatch position in the current facility is equipped with a Motorola MCC 5500 radio console. In the current configuration, console equipment is connected to the radio transmitter and antennas located



on the roof of the Martin County Courthouse. Emergency notifications are made via a two-tone VHF paging system that is also located on the roof of the courthouse. Pager activation occurs from the console position.

Preliminary plans for the new Martin County 9-1-1 Center include a 200-foot tower that will replace the transmitters and antenna system at the courthouse.

#### **5.4.2. Bertie County**

Bertie County 9-1-1 utilizes a VHF radio system and a single low-band channel to communicate with emergency response personnel. Bertie County 9-1-1's primary dispatch system utilizes radio repeaters; the signal is received on one frequency and transmitted on another frequency at a higher power to improve coverage. The repeaters/transmitters and antennas are located at the radio tower at 911 US 13 North. Emergency notifications are made via a two-tone VHF paging system with a transmitter and antenna located at the same tower site.

Each dispatch position is equipped with a Zetron 4217b radio console. The five radio resources/channels appear on each console. The console equipment is connected to the radio transmitters and antennas at the tower by a dedicated leased line connection provided by CenturyLink Communications.

#### **5.4.3. Radio Considerations**

The Motorola MCC 5500 consoles planned for the new facility will be provisioned to support Bertie County operations. Bertie County will only require five radio resources and paging in the new console system. The MCC 5500 is adequate to handle Bertie County requirements.

There are many options to consider for connectivity to the Bertie County radio system from a new Martin County 9-1-1 Center. Mission Critical Partners evaluated several of these options. Each option proposed is conceptual in nature and will require field study to ensure complete functionality.

##### Option 1

Radio consolettes for each of Bertie County's radio systems will be installed and will tie into the proposed MCC 5500 consoles. This will require antennas to be placed on the proposed tower at the new Martin County 9-1-1 Center. The new tower would be approximately 17.1 miles from the Bertie County tower that utilizes repeaters for transmission to the field units. This scenario requires adequate coverage on the receive frequencies of the Bertie County system at the new Martin County tower. This option would be the least expensive to implement. A complete radio propagation study should be completed to ensure adequate coverage between the two towers.



### Option 2

Bertie County's primary connection to the transmitters located at the Bertie County tower is via a telephone company-provided dedicated telephone connection. This connection can be replicated at the new Martin County 9-1-1 Center with a telephone leased-line connection. This connectivity will operate in a similar manner as the primary connection from Bertie County 9-1-1. This option would have the highest recurring cost as dedicated leased circuits would be required from the new Martin County 9-1-1 Center to the Bertie County tower. Generally telephone companies charge per mile monthly for these types of circuits. Quotes should be obtained from CenturyLink to project circuit costs.

### Option 3

A microwave radio network establishes connectivity between the new Martin County tower and the existing Bertie County tower.

Mission Critical Partners conducted a preliminary microwave path analysis between the two locations. The results of the analysis indicate that a 6 gigahertz (GHz) microwave network could provide the needed connectivity to the Bertie County radio and paging systems. The analysis assumes a microwave dish can be placed at approximately 180 feet on the Bertie County tower and at 140 feet on the new Martin County tower. While the cost of a microwave network will be a more expensive capital cost, the reduction in leased lines will quickly offset the capital expense. In addition to the microwave equipment costs, a structural analysis will be required of the Bertie County tower, and remediation of any deficiencies found. The proposed Martin County tower is not currently designed for a microwave network; therefore, additional engineering will need to be accomplished for a final quote.

If properly designed the microwave network could be used for other applications in the future.

Figure 7 on the following page depicts the preliminary microwave path analysis.



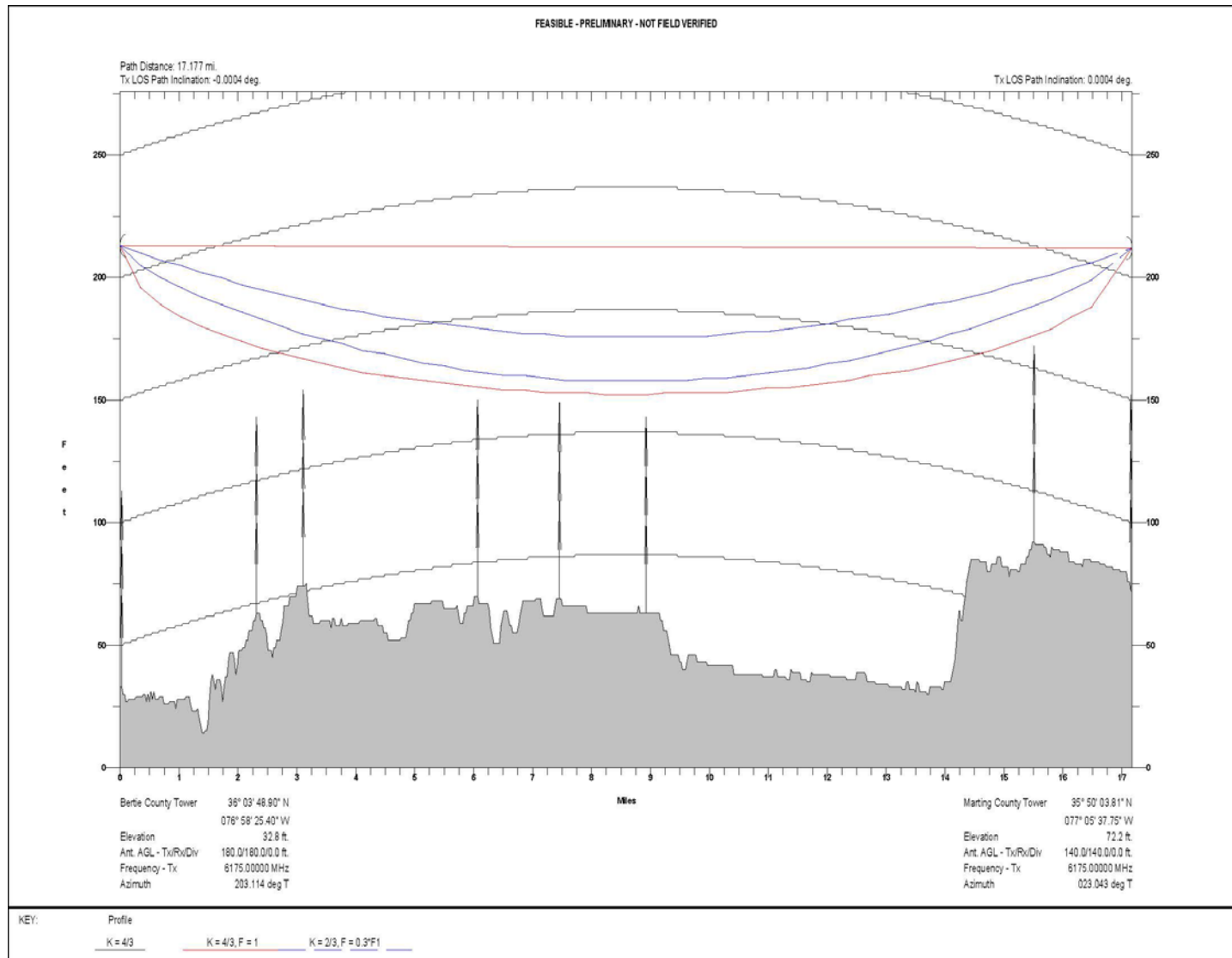


Figure 7: Preliminary Path Analysis



For each option, the MCC 5500 consoles will be programmed to support Bertie County operations. Once programmed into the consoles, Bertie County radio channels will be programmed so that they will be audio-muted until needed by Bertie County 9-1-1 staff or Martin County 9-1-1 staff during a relocation period.

As the MCC 5500 will look and operate differently than the Bertie County Zetron 4217b consoles, proper training of staff will be required on the MCC 5500.

With appropriate verification, each option will support Bertie County operating from a new Martin County 9-1-1 Center. Option 3 with a microwave network will provide the most reliable and fault-tolerant solution, but will also be the most expensive. Budgetary estimates are provided for Option 3. The other options will be less expensive, if Martin County determines they are suitable.

## **5.5. LOGGING RECORDER**

### **5.5.1. *Martin County***

Martin County 9-1-1 uses an 8-channel NICE recording solution sold and maintained by Edge 1. The NICE system records both phone and radio communications, and has a quality assurance package.

### **5.5.2. *Bertie County***

Bertie County 9-1-1 uses a 16-channel NICE recording solution sold and maintained by Edge 1. The NICE system records both phone and radio communications.

### **5.5.3. *Logging Recorder Considerations***

The current recording solution in place in Martin County will not have adequate recording capabilities to support the recording needs of Bertie County 9-1-1 for backup purposes. Bertie County 9-1-1 will require recording of two CAMA trunk lines, five administrative lines, and, at minimum, three primary dispatch channels in the backup center. Mission Critical Partners considered two options for logging recorder support.

#### Option 1

The new Martin County 9-1-1 Center will have a new recording system that is planned to support 11 analog channels. The recorder as proposed will support up to 24 channels. The new recorder will support recording of 10 channels for Bertie County, with the appropriate upgrades. This will be the least expensive option, but may limit expansion capabilities in the future for Martin County.



### Option 2

A separate recording system would be purchased, dedicated to recording 10 channels for Bertie County. While this is a more expensive option, the recorder could provide for backup recording capabilities for Martin County on a routine basis.

Budgetary estimates are provided for Option 2. Option 1 will be less expensive if Martin County determines that upgrading the proposed recorder is a more suitable option.

## **5.6. POWER EQUIPMENT**

The new Martin County 9-1-1 Center will likely be equipped with at 40 kilo volt-ampere (kVA) uninterruptible power supply (UPS) and a 140 kilowatt (kW) diesel generator with a 500-gallon tank to support the operations of Martin County. This UPS and generator will be adequate to provide emergency power to sustain the backup operations of Bertie County.

## **5.7. BUDGETARY ESTIMATES**

Budgetary estimates provided below are based on Mission Critical Partners' experience and estimation in the public safety marketplace nationally. Specific quotes should be obtained from vendors before finalization of the budget. *This budget is only for additional expenses required for the backup of Bertie County 9-1-1.* These estimates should be considered in addition to any costs associated with construction and technology for the new Martin County 9-1-1 Center. Estimates are for capital costs and do not include recurring costs.

**Table 5: Technology Budgetary Estimates**

Item	Cost Estimate	Description
CPE Upgrade	\$35,000	Estimate for additional trunk cards and installation for the Intrado VIPER CPE. CenturyLink will need to provide pricing for CAMA trunk lines.
CAD System Replications	\$50,000	Software for replication of CAD system data from one server to another, as well as CAD-to-CAD interface.
VPN/Firewall	\$14,000	For data replication for CAD servers. This cost is for hardware, and does not include the cost of Internet connectivity. Assumption is made that both Martin and Bertie counties have sufficient Internet bandwidth to support replication.
Radio Network	\$225,000	Console upgrades and microwave network to support dispatch of Bertie County responders from Martin County.
Tower Improvement	\$100,000	Tower analysis and potential structural enhancements for the Bertie County tower and additional requirements for the new Martin County tower to support microwave.
Logging Recorder	\$25,000	Additional logging recorder for Bertie County requirements.



## 6. PATH FORWARD

### 6.1. FACILITY

A new facility should be designed and built with a “last building standing” mindset. This means that the construction of each system can withstand any anticipated natural or man-made event, including disruption of utilities and services. A new 9-1-1 facility design should also include redundant and diverse systems to maximize fault-tolerance and resiliency. Mission Critical Partners recommends early investigation into the availability of a secondary power feed from an alternate power grid.

NG9-1-1 technology enables the sharing of resources, data, systems, and information across municipal, county, regional, and state boundaries. The integrity of an NG9-1-1 system requires agencies to consistently follow best practices and comply with applicable standards. Mission Critical Partners recommends alignment with NENA standards and best practices, particularly those related to i3 architecture, which provides the technological foundation for NG9-1-1 services.

The ability to share communications infrastructure is one of the first steps to deploying NG9-1-1 technology. Key strategic elements for implementing NG9-1-1 include the following:

- ESInet development and implementation
- Standards-based approach
- IP-capable PSAPs
- Geographic-based routing and database integration
- NG9-1-1-capable applications
- Convergence of networks and systems to implement system-of-systems
- Best practices approach

The average life cycle of emergency communications equipment and software is three to five years. Given this, it is important to remember that the design and construction period of this project may extend past the expected life of the existing equipment. New versions of, or upgraded equipment should be investigated as the project progresses in order to provide state-of-the-art technology that a mission-critical facility requires. The correct amount of time for this investigation would be calculated by working backwards from the anticipated move in date, minus the training time, minus the installation and testing time, minus the procurement processing time.

As the design effort moves forward, all support systems and spaces need to be planned to provide the highest level of redundancy and diversity. The mission-critical systems in 9-1-1 centers need to be fully functional 24 hours a day, 7 days a week, with little downtime. Any unscheduled downtime can negatively affect performance.

The ability for telecommunicators and supervisors and/or management to have a good vantage point of wall-mounted informational monitors is critical. In addition to correct viewing angles, heights, and



distances, the ability to control and change the images as needs arise will make those images more valuable. Images and information should also be available in administrative offices, situation rooms, training rooms, etc.

Workstation console layout should allow telecommunicators uncluttered and easy access to all 9-1-1 systems, while allowing support staff access to the equipment and cabling needed to keep them functioning at their peak performance.

A building layout must be developed through a schematic design phase. Final design will be impacted by the site, building orientation on the site, and information collected during additional programming and schematic design efforts. Focusing first on the space for 9-1-1 operations and the nature of the work they perform, the layout of the building flows from those requirements and then looks at the areas necessary to support the 9-1-1 function. The 9-1-1 center should be located in the center or to the rear of the facility, providing separation from the front entrance and face of the building. The 9-1-1 center and the critical support systems are housed in a hardened area of the facility, providing both physical security and survivability when their services are most needed.

Appendix C contains a list of applicable codes and standards to which the design of the facility should conform.

Martin County has identified a site on Prison Camp Road in Williamston as a potential location for the new center. An extensive study should be conducted, to include a comprehensive threat assessment and engineering and geotechnical surveys, to determine if the location is suitable for a new mission-critical facility.

Appendix D contains a copy of the property map.

## **6.2. GOVERNANCE AND COST SHARING**

*Governance bodies bring together multiple disciplines and jurisdictions to address common goals and objectives to improve emergency communications. As such, an MOU/MOA helps stakeholders establish the partnerships and authority needed to achieve an effective governance structure for public safety operable and interoperable communications. An MOU/MOA is important because it defines the responsibilities of each party in an agreement, provides the scope and authority of the agreement, clarifies terms, and outlines compliance issues.<sup>8</sup>*

The success of a regional backup initiative will be in part dependent on a well-thought out and well-written Intergovernmental Agreement (IGA) or Memorandum of Understanding or Agreement (MOU/MOA).

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<sup>8</sup> [http://www.dhs.gov/sites/default/files/publications/2015%20Governance%20Guide\\_Master\\_508c%20Final.pdf](http://www.dhs.gov/sites/default/files/publications/2015%20Governance%20Guide_Master_508c%20Final.pdf), page 19 of 51.



When drafting an IGA (or MOU/MOA), consideration should be given to the following:

- Cost sharing, contribution percentages, and a method for updating it or changing it as needed
  - Budget approval for technology replacement
  - Establishment of reserve accounts to pay for critical systems replacements
  - Facility maintenance
- Responsibilities for accounts payable and receivable for shared costs
- Process for complaint resolution and input
- Procurement processes and administrative responsibilities
- Ownership of technology purchased jointly
- Span of authority and control for any technology and upgrades/changes
- Approval process for any shared services
- Agreed-upon service levels to be provided, including any shared call taker resources during backup activation
- Length of the agreement
- Withdrawal process and time requirements
- Any monetary penalties for withdrawal

Cost sharing between Martin County and Bertie County can be complex because much of the equipment that will be required for Bertie County's backup center is already required for Martin County 9-1-1. Utilizing the shared workstations and technology approach in the new Martin County 9-1-1 Center will significantly reduce the cost of providing a backup center for Bertie County. The equipment that will be utilized for the backup center will be accessible to Martin County operations on a daily basis, thereby eliminating the cost of purchasing duplicate equipment.

Based upon the technical assessment provided in this report, costs can be divided into capital and recurring.

**Table 6: Capital and Recurring Costs**

Capital Cost	Recurring Cost
CPE upgrades	Recurring CAMA trunk expenses
CAD Replication software and CAD-to-CAD software	Annual maintenance
Firewalls for VPN connectivity	Internet connectivity and maintenance costs
Radio system upgrades (whether microwave, over-the-air, or telephone connectivity)	Annual maintenance for equipment or telephone expenses for dedicated lease lines
Logging Recorder	Annual maintenance

If dedicated workstations and technology are the preferred backup method, in addition to the technology costs, consideration will need to be given to sharing of facility maintenance costs, such as



electricity, water, HVAC maintenance, fire protection, custodial, etc., which could be based on a square footage percentage allocated to Bertie County.

It is critically important that Martin and Bertie counties memorialize the cost sharing model in an IGA in advance of implementation or construction of the new facility. Clear understanding of the expenses associated with providing a backup PSAP will minimize the confusion that can often impact the success of such an arrangement. While North Carolina counties are fortunate to have access to funding from the North Carolina 911 Board for establishing a backup PSAP, all associated expenses may not be eligible for reimbursement.

To the greatest extent possible, Martin and Bertie counties should seek funding from the 911 Board for any reimbursable capital or recurring expenses. While Mission Critical Partners cannot speak for the 911 Board, it is our understanding that any expense related to the backup facility is reimbursable using the same process as for a primary facility. Appendix E provides a list of reimbursable expenses allowed by the North Carolina 911 Board; this list should be verified for accuracy to ensure there have been no changes since this report was prepared.

As part of the funding model of the IGA, Mission Critical Partners recommends the following:

- For procurement of capital items or recurring costs that are grant or reimbursement eligible, Martin County would pay for those items located at the Martin County 9-1-1 Center and Bertie County would pay for those items at the Bertie County 9-1-1 Center. For example, CAD replication will require software, Internet access, and networking hardware at both centers. Martin County would be responsible for all software and equipment located in Martin County and Bertie County would be responsible for software and equipment in Bertie County. Each county then seeks appropriate reimbursement from the 911 Board.
- Procurement of capital items or recurring costs that are not grant or reimbursement eligible, but are required for the sole purpose of providing backup services for Bertie County would be the responsibility of Bertie County. For example, the radio network is not an allowable expense for reimbursement, unless approved in a grant award. As such, Bertie County would be responsible for building the infrastructure to support radio communications with their emergency responders.
- Personnel costs associated with implementation of the backup plan should be addressed and understood. If Martin County 9-1-1 staff provides support for the period of time it takes for Bertie County 9-1-1 staff to arrive and resume backup operations, will Martin County seek reimbursement from Bertie County for staff time? As part of being a good neighbor, most counties would not seek reimbursement in such a scenario; however, there may be times when it would be advantageous to consider charging for the service, such as during a Federal Emergency Management Agency (FEMA)-declared disaster that will be eligible for reimbursement. Clearly defining personnel cost expectations in advance will allow for an understanding of when a county may be charged.
- Facility costs should be addressed and understood. Facility costs can include electricity, water, building maintenance, solid waste fees, trash services, janitorial services, alarm monitoring, fire protection equipment, generator maintenance, HVAC maintenance, pest control, window



washing, and carpeting/carpet cleaning. If technology and workstations are shared, as part of being a good neighbor, Martin County may not charge a portion of the facility costs to Bertie County. However, if Bertie County 9-1-1 needed to be housed longer than 30 days, for example, Martin County can seek reimbursement for facility costs for the time Bertie County is housed, either as actual cost increases or based on square footage used. Clearly defining facility cost expectations in advance will allow for an understanding of when a county may be charged.

The cost sharing model discussed is one of many that can prove successful. As each agency works to address the funding, cooperative communications will prove valuable to addressing any funding scenario.

## **7. CONCLUSION**

The North Carolina 911 Board encourages PSAP consolidation whenever possible, but in many communities consolidation faces political and fiscal hurdles and challenges. As Martin County is well aware, there have been two failed attempts at garnering interest in a regional consolidation initiative.

Regardless of whether Bertie County ultimately elects to maintain backup space in Martin County, Martin County 9-1-1 is in need of a new facility. The new facility should provide an environment that can improve overall operations of Martin County 9-1-1 and should be designed to support Martin County for the foreseeable future. A purpose-designed, purpose-built facility will allow for expansion should neighboring counties elect to participate in a regional backup facility.

The North Carolina 911 Board recently opened applications for the 2017 PSAP Grant program. According to the North Carolina 911 Board website, three types of grant programs are available to primary PSAPs:

- Consolidation
- Individual PSAP Enhancement/Replacement
- Regional Initiative Enhancement/Replacement

The regional initiative is defined as “...regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such initiatives comprise projects involving two or more primary PSAPs...Costs of relocation of primary PSAPs, or capital expenditures that enhance the 911 system, including cost not authorized under G.S. 143B-1406(e) and construction costs.”

The regional backup initiative between Martin and Bertie counties has distinct promise. A new Martin County 9-1-1 Center can provide the latest technology and provide a superior location and facility for Bertie County’s backup PSAP. The two centers would be geographically separated by approximately 17 miles, with an estimated travel time of 22 minutes. This will allow Bertie County 9-1-1 staff to arrive quickly, but still be far enough apart in the event of a localized emergency.





Mission Critical Partners recommends Martin County seek funding for the construction of a new facility and continue discussions with Bertie County regarding the regional backup initiative, including technology decisions and cost sharing models.

Martin County and Bertie County staff are to be commended for beginning the planning and communications process well before plans are finalized for the building. Proper planning during the facility programming phase and technology procurement phase will prove crucial to the success of a regional backup initiative.



## Appendix A—Legislation

Copies of the referenced legislation can be found on the following pages.

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Article 3.

Emergency Telephone Service.

§§ **62A-40 through 62A-56:** Recodified as G.S. 143B-1400 through 143B-1416 by Session Laws 2015-241, s. 7A.3(2), effective September 18, 2015.

§ **62A-57:** Reserved for future codification purposes.

§ **62A-58:** Reserved for future codification purposes.

Part 10. Emergency Telephone Service.

**§ 143B-1400. Definitions.**

The following definitions apply in this Part.

- (1) 911 Board. – The 911 Board established in G.S. 143B-1401.
- (2) 911 Fund. – The North Carolina 911 Fund established in G.S. 143B-1403.
- (3) 911 State Plan. – A document prepared, maintained, and updated by the 911 Board that provides a comprehensive plan for communicating 911 call information across networks and among PSAPs, addresses all aspects of the State's 911 system, and describes the allowable uses of revenue in the 911 Fund.
- (4) 911 system. – An emergency communications system using any available technology that does all of the following:
  - a. Enables the user of a communications service connection to reach a PSAP by dialing the digits 911.
  - b. Provides enhanced 911 service.
- (5) 911 system provider. – An entity that provides a 911 system to a PSAP.
- (6) **Back-up PSAP. – The capability to operate as part of the 911 System and all other features of its associated primary PSAP. The term includes a back-up PSAP that receives 911 calls only when they are transferred from the primary PSAP or on an alternate routing basis when calls cannot be completed to the primary PSAP.**
- (7) Call taking. – The act of processing a 911 call for emergency assistance by a primary PSAP, including the use of 911 system equipment, call classification, location of a caller, determination of the appropriate response level for emergency responders, and dispatching 911 call information to the appropriate responder.
- (8) Commercial Mobile Radio Service (CMRS). – Defined in 47 C.F.R. § 20.3.
- (9) Communications service. – Any of the following:
  - a. The transmission, conveyance, or routing of real-time communications to a point or between or among points by or through any electronic, radio, satellite, cable, optical, microwave, wireline, wireless, Internet protocol, or other medium or method, regardless of the protocol used.
  - b. The ability to receive and terminate voice calls, messages, videos, data, or other forms of communication to, from, and between the public switched telephone network, wireless networks, IP-enabled networks, or any other communications network.
  - c. Interconnected VoIP service.
- (10) Communications service connection. – Each telephone number or trunk assigned to a residential or commercial subscriber by a communications service provider, without regard to technology deployed.
- (11) Communications service provider. – An entity that provides communications service to a subscriber.
- (12) CMRS connection. – Each mobile handset telephone number assigned to a CMRS subscriber with a place of primary use in North Carolina.
- (13) CMRS provider. – An entity, whether facilities-based or nonfacilities-based, that is licensed by the Federal Communications Commission to provide CMRS or that resells CMRS within North Carolina.
- (14) Enhanced 911 service. – Directing a 911 call to an appropriate PSAP by selective routing or other means based on the geographical location from

which the call originated and providing information defining the approximate geographic location and the telephone number of a 911 caller, in accordance with the FCC Order.

- (15) Exchange access facility. – The access from a subscriber's premises to the telephone system of a service supplier. The term includes service supplier provided access lines, private branch exchange trunks, and centrex network access registers, as defined by applicable tariffs approved by the North Carolina Utilities Commission. The term does not include service supplier owned and operated telephone pay station lines, Wide Area Telecommunications Service (WATS), Foreign Exchange (FX), or incoming only lines.
- (16) FCC Order. – The Order of the Federal Communications Commission, FCC Docket No. 94-102, adopted on December 1, 1997, and any consent decrees, rules, and regulations adopted by the Federal Communications Commission pursuant to the Order.
- (17) GIS mapping. – Computerized geographical information that can be used to assist in locating a person who calls emergency assistance, including street centerlines, ortho photography, and oblique imaging.
- (18) Interconnected VoIP service. – Defined in 47 C.F.R. § 9.3.
- (19) Local exchange carrier. – An entity that is authorized to provide telephone exchange service or exchange access in North Carolina.
- (20) Next generation 911 system. – An IP-enabled emergency communications system using Internet Protocol, or any other available technology, to enable the user of a communications service to reach an appropriate PSAP by sending the digits 911 via dialing, text, or short message service (SMS), or any other technological means.
- (21) Next generation 911 system provider. – An entity that provides a next generation or IP-enabled 911 system to a PSAP.
- (22) Prepaid wireless telecommunications service. – A wireless telecommunications service that allows a caller to dial 911 to access the 911 system, which service must be paid for in advance and is sold in predetermined units or dollars of which the number declines with use in a known amount.
- (23) Primary PSAP. – The first point of reception of a 911 call by a public safety answering point.
- (24) Proprietary information. – Subscriber lists, technology descriptions, technical information, or trade secrets that are developed, produced, or received internally by a communications service provider or by a communications service provider's employees, directors, officers, or agents.
- (25) Public safety answering point (PSAP). – The public safety agency that receives an incoming 911 call and dispatches appropriate public safety agencies to respond to the call.
- (26) Retail transaction. – The sale of prepaid wireless telecommunications service for any purpose other than resale.
- (27) Service supplier. – An entity that provides exchange telephone service to a telephone subscriber.
- (28) Subscriber. – A person who purchases a communications service and is able to receive it or use it periodically over time.
- (29) Voice communications service. – Any of the following:

- a. The transmission, conveyance, or routing of real-time, two-way voice communications to a point or between or among points by or through any electronic, radio, satellite, cable, optical, microwave, wireline, wireless, or other medium or method, regardless of the protocol used.
  - b. The ability to receive and terminate voice calls to and from the public switched telephone network.
  - c. Interconnected VoIP service.
- (30), (31) Repealed by Session Laws 2015-261, s. 4(a), effective January 1, 2016.
- (32) VoIP provider. – An entity that provides interconnected VoIP service. (2007-383, s. 1(a); 2010-158, s. 1; 2011-122, s. 2; 2014-66, s. 1.1; 2015-241, s. 7A.3(2); 2015-261, ss. 1(a), 4(a).)

**§ 143B-1402. Powers and duties of the 911 Board.**

(a) Duties. – The 911 Board has the following powers and duties:

- (1) To develop the 911 State Plan. In developing and updating the plan, the 911 Board must monitor trends in communications service technology utilized for the 911 system and in enhanced 911 service technology, investigate and incorporate GIS mapping and other resources into the plan, **ensure individual PSAP plans incorporate a back-up PSAP**, and formulate strategies for the efficient and effective delivery of enhanced 911 service.
- (2) To administer the 911 Fund and the monthly 911 service charge authorized by G.S. 143B-1403.
- (3) To distribute revenue in the 911 Fund to CMRS providers and PSAPs in accordance with this Part and advise CMRS providers and PSAPs of the requirements for receiving a distribution from the 911 Fund.
- (4) To establish cooperative purchasing agreements or other contracts for the procurement of goods and services, **to establish policies and procedures to fund advisory services and training for PSAPs, to set operating standards for PSAPs and back-up PSAPs, and to provide funds in accordance with these policies, procedures, and standards.**
- (5) To investigate the revenues and expenditures associated with the operation of a PSAP to ensure compliance with restrictions on the use of amounts distributed from the 911 Fund.
- (6) To make and enter into contracts and agreements necessary or incidental to the performance of its powers and duties under this Part and to use revenue available to the 911 Board under G.S. 143B-1404 for administrative expenses to pay its obligations under the contracts and agreements.
- (7) To use funds available to the 911 Board under G.S. 62-47 [143B-1407] to pay its obligations incurred for statewide 911 projects.
- (8) To accept gifts, grants, or other money for the 911 Fund.
- (9) To undertake its duties in a manner that is competitively and technologically neutral as to all communications service providers.
- (10) To design, create, or acquire printed or Web-based public education materials regarding the proper use of 911.
- (11) To adopt rules to implement this Part. This authority does not include the regulation of any enhanced 911 service, such as the establishment of technical standards for telecommunications service providers to deliver 911 voice and data.
- (12) To take other necessary and proper action to implement the provisions of this Part.

(b) Prohibition. – In no event shall the 911 Board or any other State agency construct, operate, or own a communications network for the purpose of providing 911 service. The 911 Board may pay private sector vendors for provisioning a communications network for the purpose of providing citizens access to 911 services and completing call-taking processes through one or more PSAPs. (2007-383, s. 1(a); 2010-158, s. 3; 2014-66, s. 1.2; 2015-241, s. 7A.3(2); 2015-261, ss. 1(b), (c), 2, 4(b).)

**§ 143B-1406. Fund distribution to PSAPs.**

(a) Monthly Distribution. – The 911 Board must make monthly distributions to primary PSAPs from the amount allocated to the 911 Fund for PSAPs. A PSAP is not eligible for a distribution under this section unless it complies with the requirements of this Part, provides enhanced 911 service, and received distributions from the 911 Board in the 2008-2009 fiscal year. **The Board may reduce, suspend, or terminate distributions under this subsection if a PSAP does not comply with the requirements of this Part.** The Board must comply with all of the following:

- (1) Administration. – The Board must notify PSAPs of the estimated distributions no later than December 31 of each year. The Board must determine actual distributions no later than June 1 of each year. The Board must determine a method for establishing distributions that is equitable and sustainable and that ensures distributions for eligible operating costs and anticipated increases for all funded PSAPs. The Board must establish a formula to determine each PSAP's base amount. The formula must be determined and published to PSAPs in the first quarter of the fiscal year preceding the fiscal year in which the formula is used. The Board may not change the funding formula for the base amount more than once every year.
- (2) Reports. – The Board must report to the Joint Legislative Commission on Governmental Operations and the Revenue Laws Study Committee within 45 days of a change in the funding formula. The report must contain a description of the differences in the old and new formulas and the projected distributions to each PSAP from the new formula.
- (3) Formula. – The funding formula established by the Board must consider all of the following:
  - a. The population of the area served by a PSAP.
  - b. PSAP reports and budgets, disbursement histories, and historical costs.
  - c. PSAP operations, 911 technologies used by the PSAP, compliance with operating standards of the 911 Board, level of service a PSAP delivers dispatching fire, emergency medical services, law enforcement, and Emergency Medical Dispatch.
  - d. The tier designation of the county in which the PSAP is located as designated in G.S. 143B-437.08.
  - e. Any interlocal government funding agreement between a primary PSAP and a secondary PSAP, if the secondary PSAP was in existence as of June 1, 2010, receives funding under the agreement, and is within the service area of the primary PSAP.
  - e1. Any expenditure authorized by the 911 Board for statewide 911 projects or the next generation 911 system.
  - f. Any other information the Board considers relevant.
- (4) Additional distributions. – In the first quarter of the Board's fiscal year, the Board must determine whether payments to PSAPs during the preceding fiscal year exceeded or were less than the eligible costs incurred by each PSAP during the fiscal year. If a PSAP receives less than its eligible costs in any fiscal year, the Board may increase a PSAP's distribution in the following fiscal year above the base amount as determined by the formula to meet the estimated eligible costs of the PSAP as determined by the Board. The Board may not distribute less than the base amount to each PSAP except as provided in subsection (c) of this section. The Board must provide a



procedure for a PSAP to request a reconsideration of its distribution or eligible expenses.

(b) **Percentage Designations.** – The 911 Board must determine how revenue that is allocated to the 911 Fund for distribution to primary PSAPs and is not needed to make the base amount distribution required by subdivision (a)(1) of this section is to be used. The 911 Board must designate a percentage of the remaining funds to be distributed to primary PSAPs on a per capita basis and a percentage to be allocated to the PSAP Grant Account established in G.S. 143B-1407. If the 911 Board does not designate an amount to be allocated to the PSAP Grant Account, the 911 Board must distribute all of the remaining funds on a per capita basis. The 911 Board may not change the percentage designation more than once each fiscal year.

(c) **Carryforward.** – A PSAP may carry forward distributions for eligible expenditures for capital outlay, capital improvements, or equipment replacement. Amounts carried forward to the next fiscal year from distributions made by the 911 Board may not be used to lower the distributions in subsection (a) of this section unless the amount is greater than twenty percent (20%) of the average yearly amount distributed to the PSAP in the prior two years. The 911 Board may allow a PSAP to carry forward a greater amount without changing the PSAP's distribution.

(d) **Use of Funds.** – A PSAP that receives a distribution from the 911 Fund may not use the amount received to pay for the lease or purchase of real estate, cosmetic remodeling of emergency dispatch centers, hiring or compensating telecommunicators, or the purchase of mobile communications vehicles, ambulances, fire engines, or other emergency vehicles. Distributions received by a PSAP may be used only to pay for the following:

- (1) The lease, purchase, or maintenance of:
  - a. Emergency telephone equipment, including necessary computer hardware, software, and database provisioning.
  - b. Addressing.
  - c. Telecommunicator furniture.
  - d. Dispatch equipment located exclusively within a building where a PSAP or back-up PSAP is located, excluding the costs of base station transmitters, towers, microwave links, and antennae used to dispatch emergency call information from the PSAP or back-up PSAP.
- (2) The nonrecurring costs of establishing a 911 system.
- (3) Expenditures for in-State training of 911 personnel regarding the maintenance and operation of the 911 system. Allowable training expenses include the cost of transportation, lodging, instructors, certifications, improvement programs, quality assurance training, training associated with call taking, and emergency medical, fire, or law enforcement procedures, and training specific to managing a PSAP or supervising PSAP staff. Training outside the State is not an eligible expenditure unless the training is unavailable in the State or the PSAP documents that the training costs are less if received out-of-state. Training specific to the receipt of 911 calls is allowed only for intake and related call taking quality assurance and improvement. Instructor certification costs and course required prerequisites, including physicals, psychological exams, and drug testing, are not allowable expenditures.
- (4) Charges associated with the service supplier's 911 service and other service supplier recurring charges. The PSAP providing 911 service is responsible to the communications service provider for all 911 installation, service, equipment, operation, and maintenance charges owed to the communications

service provider. A PSAP may contract with a communications service provider on terms agreed to by the PSAP and the provider.

(e) Local Fund. – The fiscal officer of a PSAP to whom a distribution is made under this section must deposit the funds in a special revenue fund, as defined in G.S. 159-26(b)(2), designated as the Emergency Telephone System Fund. The fiscal officer may invest money in the Fund in the same manner that other money of the local government may be invested. Income earned from the invested money in the Emergency Telephone System Fund must be credited to the Fund. Revenue deposited into the Fund must be used only as permitted in this section.

(f) Compliance. – A PSAP, or the governing entity of a PSAP, must comply with all of the following in order to receive a distribution under this section:

- (1) A county or municipality that has one or more PSAPs must submit in writing to the 911 Board information that identifies the PSAPs in the manner required by the FCC Order.
- (2) A participating PSAP must annually submit to the 911 Board a copy of its governing agency's proposed or approved budget detailing the revenues and expenditures associated with the operation of the PSAP. The PSAP budget must identify revenues and expenditures for eligible expense reimbursements as provided in this Part and rules adopted by the 911 Board.
- (3) A PSAP must be included in its governing entity's annual audit required under the Local Government Budget and Fiscal Control Act. The Local Government Commission must provide a copy of each audit of a local government entity with a participating PSAP to the 911 Board.
- (4) A PSAP must comply with all requests by the 911 Board for financial information related to the operation of the PSAP.
- (5) By July 1, 2016, a PSAP must have a plan and means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP. If a PSAP has made substantial progress toward implementation of the plan and means, the 911 Board may grant the PSAP an extension until July 1, 2017, to complete implementation of the plan and means. The plan must identify the alternative capability of taking the redirected 911 calls. This subdivision does not require a PSAP to construct an alternative facility to serve as a back-up PSAP.
- (6) A primary PSAP must comply with the rules, policies, procedures, and operating standards for primary PSAPs adopted by the 911 Board.

(g) Application to Cherokees. – The Eastern Band of Cherokee Indians is an eligible PSAP. The Tribal Council of the Eastern Band is the local governing entity of the Eastern Band for purposes of this section. The Tribal Council must give the 911 Board information adequate to determine the Eastern Band's base amount. The 911 Board must use the most recent federal census estimate of the population living on the Qualla Boundary to determine the per capita distribution amount. (2007-383, s. 1(a); 2008-134, ss. 1(b), (c); 2010-158, ss. 7(a)-(d); 2011-291, s. 2.18; 2014-66, s. 1.3; 2015-219, s. 1; 2015-241, s. 7A.3(2); 2015-261, ss. 1(e), 4(e).)



## **Appendix B—Preliminary Programming Study**

The preliminary programming study and budgetary cost estimate can be found on the following pages.

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AREA SUMMARY

		NSF	Grossing Factor		GSF	Total
TOTALS						
1	DISPATCH / 9-1-1	3104	48 %		1499	4603
2	IT SUPPORT / EQUIPMENT ROOMS	1364	18 %		185	1549
3	LOBBY / BUILDING ENTRY	64	20 %		13	77
	Subtotal	4532	29 %		1697	6229
	Building GSF @ 10%				623	
	TOTAL BUILDING AREA	4532			2320	6852

	Low	Middle	High
	\$250/Sq Ft	\$300/Sq Ft	\$350/Sq Ft
OPINION OF PROBABLE COSTS	\$1,713,000	\$2,055,600	\$2,398,200



			Space Code	Area/Unit	Units	NSF	Grossing Factor		GSF	Total	Comments
1											
1.0	DISPATCH / 9-1-1	BUILDING ADJACENCIES									
1.1	Managerial Offices			200	2	400	30	%	120	520	Video Surveillance / Building Control Systems
1.2	Telecommunicators - Martin County			64	4	256	100	%	256	512	Sit-Stand Workstation
1.3	Training / Bertie County Backup			64	2	128	100	%	128	256	Sit-Stand Workstation
1.4	Expansion Area for Regional Backup Capabilities			64	4	256	100	%	256	512	Sit-Stand Workstation Area
1.5	Training/QA Office			100	1	100	30	%	30	130	
1.6	GIS/Mapping Office			150	1	150	30	%	45	195	
1.7	Toilet Rooms			72	2	144	100	%	144	288	Separated from 9-1-1 Call Center for privacy
1.8	Kitchen/Break Room			300	1	300	30	%	90	390	Immediately adjacent to 9-1-1
1.9	Day Room / Bunk - Men			100	1	100	30	%	30	130	Space for two bunks
1.1	Day Room / Bunk - Women			100	1	100	30	%	30	130	Space for two bunks
1.11	Quiet Room / Decompression			100	1	100	35	%	35	135	
1.12	Conference/EOC/Training Room			300	1	300	35	%	105	405	Partitioned
1.13	Copy/Storage/Work Area			220	1	220	35	%	77	297	File Cabinets, Storage Cabinets, Counter Area
1.14	Showers/Lockers			150	2	300	30	%	90	390	_1_ Male/_1_ Female
1.15	Bulk Food/Water Storage			150	1	150	25	%	38	188	Bottled Water Storage/Beverage(Coffee) Set-ups
1.16	Storage/Supplies			100	1	100	25	%	25	125	Shelves
Subtotal						3104	48	%	1499	4603	



2											
2.0	IT SUPPORT—EQUIPMENT ROOMS	BUILDING ADJACENCIES									
2.1	911/IT/Radio Equipment Room			300	1	300	10	%	30	330	IT Infrastructure (Estimated ____ Racks)
2.2	911/IT/Radio: Equipment Receiving			64	1	64	50	%	32	96	IT Infrastructure
2.3	Main Power Distribution			300	1	300	10	%	30	330	
2.4	UPS Rooms			200	1	200	10	%	20	220	
2.5	Mechanical/Plumbing Room/Fire Protection			300	1	300	10	%	30	330	
2.6	Maintenance/Custodial Storage			150	1	150	25	%	38	188	
2.7	Janitorial Closet			50	1	50	10	%	5	55	
				Subtotal	1364		18	%	185	1549	

3											
3.0	LOBBY / BUILDING ENTRY	BUILDING ADJACENCIES									
3.1	Secure Vestibule			64	1	64	20	%	13	77	
				Subtotal	64		20	%	13	77	

NOTES:

MARTIN COUNTY, NC					
PROPOSED NEW EMERGENCY SERVICES FACILITY					
WILLIAMSTON, NC					
BUDGET COST ANALYSIS				Total Area	6,852 s.f.
				Project Phase: Programming	
COST PHASE - CONSTRUCTION				cost/s.f. (using building construction cost only)	
BUILDING CONSTRUCTION COSTS					
1	Total Building Construction Cost Estimate		\$350.00	s.f.	\$2,398,200
SITE CONSTRUCTION					
2	Total Site Construction Cost Estimate		\$45.00	s.f.	\$308,340
3	GRAND TOTAL CONSTRUCTION ESTIMATE				\$2,706,540
4		Escalation @	5%		\$135,327
5				SUBTOTAL	\$2,841,867
6		Construction Contingency @	5%		\$142,093
7			\$435.36	GRAND TOTAL	\$2,983,960
COST PHASE - DESIGN					
8	Programming and Needs Assessment				
9	A/E Design Fee		@	9.0%	\$268,556
10	Expenses				\$10,000
11	Telecomm. Consultant Design & Project Management				
12	Geotechnical Investigation				\$7,500
13	Land Survey Services				\$5,000
14	Inspection / Testing Services				\$25,000
15	Land Development Approvals				
16	Total Design Services				\$316,056
COST PHASE - PERMITS					
17	State Approvals				\$10,000
18	Building Permit				\$10,000
19	Highway/Streets Permits				
20	Water Service / Sanitary Service				\$5,000
21	FAA Approval (tower)				
22	Other Approvals				\$10,000
23	Total Permitting				\$35,000
COST PHASE - TECHNOLOGY & FFE					
Communications					
24	Call Handling				In telecomm package
25	CAD				In telecomm package
26	Radio Console System				In telecomm package
27	Mapping				In telecomm package
28	Workstations				In telecomm package
29	MIS				In telecomm package
30	Logging Recorder				In telecomm package
		Subtotal			
Other Systems					
31	Audio Video Systems				In telecomm package
32	Off-Site Electrical/Telecomm Utility Connection				In telecomm package
33	Ancillary Computer Equipment for entire building				\$10,000
34	Other				
35		Subtotal			\$10,000
Other Costs					
36	Furniture (not including console furniture)				\$60,000
37		Subtotal			\$60,000
38	Total Technology & FFE Costs				\$70,000
COST PHASE - PROJECT BUDGET				Subtotal	\$3,405,016
39	Project Contingency		10%	\$340,502	
40	TOTAL PROJECT BUDGET				\$3,745,518



## Appendix C—Codes and Standards

As background information only, the design of the facility should conform to applicable codes and standards as indicated below, except where local codes, ordinances or regulations provide for more stringent requirements. Where more stringent requirements are necessary, the design must include the requirements of the local codes, ordinances and regulations.

- National Fire Protection Association (NFPA)
  - NFPA 1221: *Standard for the Installation, Maintenance, and Use of Emergency Services Communications Systems*, 2007 Edition
  - NFPA 70: *National Electric Code®*
- American National Standards Institute/Telecommunications Industry Association/ Electronic Industries Alliance (ANSI/TIA/EIA)
  - TIA-942: *Telecommunications Infrastructure Standard for Data Centers*
  - ANSI/TIA/EIA 568-B: *Commercial Building Telecommunications Cabling Standard*
  - TIA-222G: *Structural Standard For Antenna Supporting Structures and Antennas*
- Motorola R56®: *Standards and Guidelines for Communication Sites*
- American National Standards Institute/National Electrical Contractors Association/Building Industry Consulting Service International (ANSI/NECA/BICSI)
  - BICSI-002: *Data Center Design and Implementation Best Practices*
- National Emergency Number Association (NENA) Technical Information Documents (TID)
  - Various facility guidelines
- Federal Emergency Management Agency (FEMA) Facility Guidelines 361, 426, 452
  - 72-hour, location, weather, etc.
- National Institute for Occupational Safety and Health (NIOSH) Standards
- National Incident Management System (NIMS)
- General Services Administration (GSA) Facility Guidelines
  - Threat and Security Recommendations
- Department of Defense (DoD) Facility Guidelines
  - Uniform Facilities Criteria (UFC)
- State and National Building Codes
  - Critical Facility Guidelines
- Commission on Accreditation for Law Enforcement Agencies, Inc. (CALEA)
- Director of Central Intelligence Directive (DCID) #6/9
- Uptime Institute
  - Data Center Site Infrastructure Tier Standard
- Department of Homeland Security (DHS) Management Directives



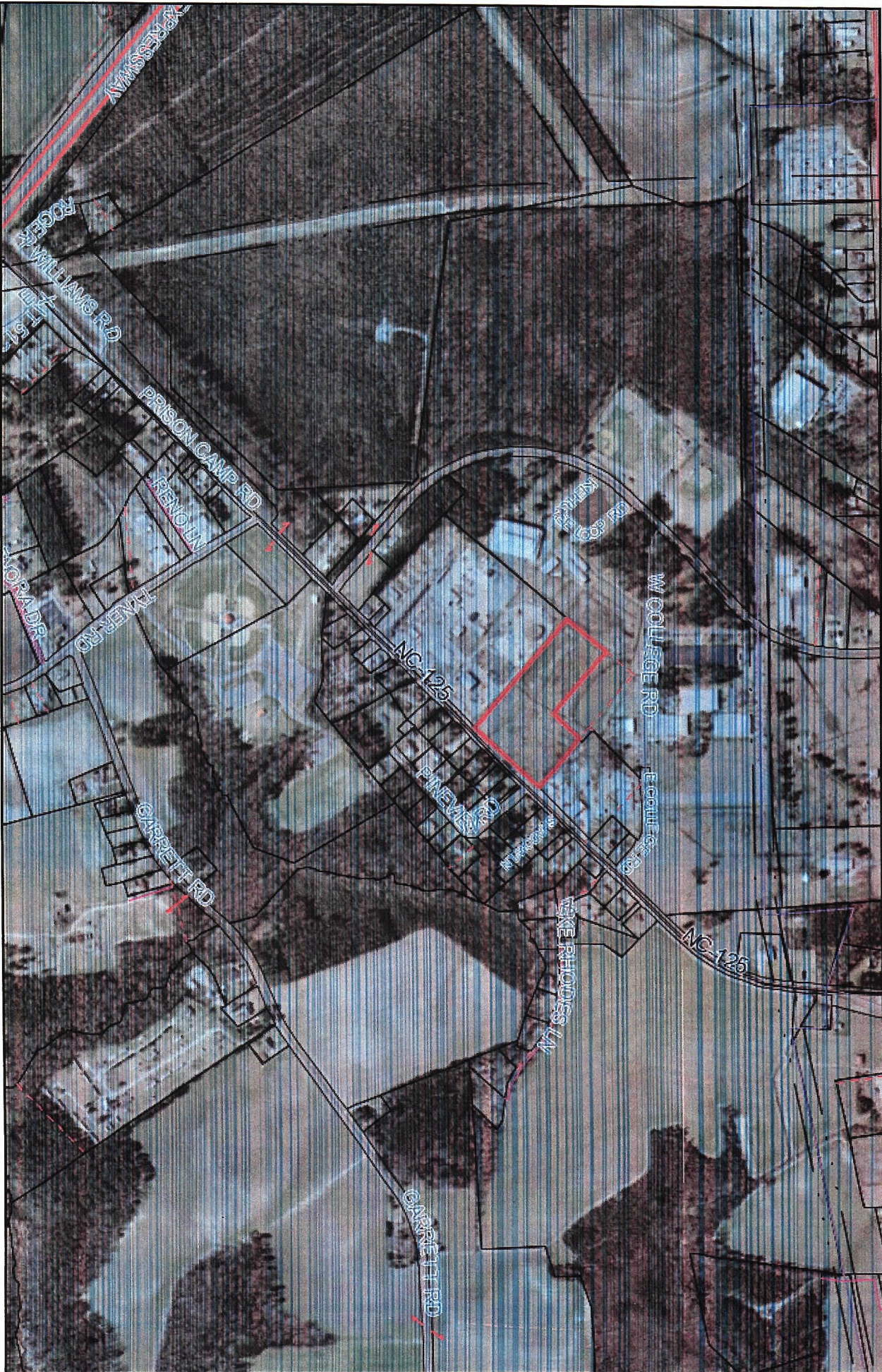


## Appendix D—Property Map

The property map for the location on Prison Farm Road can be found on the following pages.

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Martin County, NC

## PROPERTY MAP



Disclaimer:  
The data provided on this map are prepared for the inventory of real property found within Martin County, NC and are compiled from recorded plats, deeds, and other public records and data. This data is for informational purposes only and should not be substituted for a true title search, property appraisal, survey, or for zoning verification.

Parcel Number: 0505657  
Map Number: 5766-14  
Owner Name: MARTIN COUNTY  
Owner Address: PO BOX 668  
Owner City: WILLIAMSTON  
Owner State: NC  
Owner Zip: 27892-0668  
Location: 1560 PRISON CAMP RD

Deed Book: S-17  
Deed Page: 469  
Current Value: F05  
Deed Acres: 8.31  
Calc Acres: 8.31451696039  
Map/Block/Lot: 5766-43-5820  
Sale Date: 0  
Sale Price: 0  
Township: 05



One Inch = 800 Feet





## Appendix E—Eligible 9-1-1 Fee Expenditures

Eligible 9-1-1 fee expenditures, approved by the North Carolina 911 Board, are described below.<sup>9</sup> Information is current as of June 19, 2015. Mission Critical Partners recommends the Board website be visited prior to expenditure to ensure accuracy. The Board should also be contacted for questions regarding expenditures not listed.

### Phone Systems:

- 9-1-1 trunks and one administrative line per answering position
- Telephone sets used to answer 9-1-1 calls, including CPE equipment, headsets, monitors, keyboards, mouse and servers used exclusively for telephone sets<sup>10</sup>
- TDD/TTY
- ACD systems, whether facility-based or premise-based
- Interpretive services (e.g., Language Line or Omni Lingual)
- Service provider selective routing and ALI provisioning charges
- Data connection for the sole purpose of collecting call information for analysis<sup>11</sup>

### Furniture:

- Cabinets, tables, or desks that hold eligible 9-1-1 equipment
- Telecommunicator chairs

### Software:

- CAD system modules that are part of the call taking process only; some CAD systems will include additional modules that are not a part of the 9-1-1 process and are not eligible
- GIS software used to create and display the base map showing street centerlines
- GIS layers developed specifically for 9-1-1 addressing functions
- Voice logging recorder software
- Management Information System (MIS) software for 9-1-1 phone systems
- Time synchronization device software
- Law enforcement, fire and medical call taking protocols including software and flip-cards
- QA software for the training program of law enforcement, fire and medical call taking protocols
- ALI database software
- Radio console software that is part of the 9-1-1 process; some radio console software will include additional modules that are not a part of the 9-1-1 process and are not eligible
- Console Audio Box (CAB) software

---

<sup>9</sup> <http://it.nc.gov/nc911board>

<sup>10</sup> When servers host both 911 eligible and ineligible applications, only the percentage of the cost of the server representing the 911 eligible use is allowable.

<sup>11</sup> If connection is shared with non-eligible 9-1-1 devices, then only a percentage of the eligible 9-1-1 cost is eligible.



- Paging software including licensing costs to interface or integrate with CAD or licensing cost to establish a web-based paging function in substitution for paging through CAD; excludes costs for use of such software or functions by first responders
- CAD-to-CAD interface software
- Automated digital voice dispatching software
- Message switch software that allows for voiceless dispatch, status updates, and mobile-to-CAD messaging, including CAD licensing costs for mobile computer terminals, smartphones and tablets; some message switch software may include additional modules that are not a part of the 9-1-1 process and are not eligible

#### Hardware:

- Servers used exclusively for telephone, CAD, voice logging recorder, GIS, paging, console/alias database management, radio console network switching, and radio console software systems, including monitor, keyboard, and mouse
- Computer work stations used exclusively for telephone, CAD, voice logging recorder, GIS, and radio console software systems, including monitor, keyboard, mouse, microphones, speakers, headset jacks, footswitches, and CAB
- Time synchronization devices
- UPS for only 9-1-1-related equipment; if a UPS serves more than 9-1-1 equipment, only a percentage of the total cost is allowable
- Emergency power generator serving the 9-1-1 center; if a generator serves more than the 9-1-1 center, only a percentage of the total cost is allowable
- Radio network switching equipment used exclusively for 9-1-1 centers' radio dispatch consoles
- Fax modem for rip and runs
- Printers
- Radio console Ethernet switch
- Radio console access router
- Backup storage equipment for 9-1-1 database systems
- Mobile message switch
- Paging interface with CAD system
- Alpha/Numeric pager tone generator
- Radio consolette, configured for exclusive use at the dispatcher work station for dispatcher operation to perform dispatch function when there is no traditional console installed at the workstation
- Handheld GPS devices that are used strictly for 9-1-1 addressing; must meet or exceed the requirements of "Mapping Grade GPS Receiver" as defined in the Global Positioning System (GPS) Data Collection and Documentation Standards established by the North Carolina Geographic Information Coordinating Council



Training:


- Individual class registration for maintenance and operation of the 9-1-1 system and specific 9-1-1 intake and related call taking training, managing of a PSAP and supervising PSAP staff
- Out-of-state training if the class is not offered in North Carolina six months prior to or six months after the scheduled out-of-state class
- Allowable travel expenses not exceeding local government or North Carolina per diem rates

Support Functions (Implemental Functions)

- Maintenance, database provisioning, and addressing functions costs implemental to receiving and utilizing voice and data and maintenance costs of dispatch equipment located exclusively within a building where a 9-1-1 center is located

Attachment 3  
Population Statistics

These attachments pertain to question 8.



[U.S. Department of Commerce](http://www.commerce.gov/) | [Blogs](http://www.census.gov/about/contact-us/social_media.html) | [Index A-Z](http://www.census.gov/about/index.html) | [Glossary](http://www.census.gov/glossary/) | [FAQs](http://ask.census.gov/)

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**U.S. Census Quick Facts**

## QuickFacts

### Martin County, North Carolina

QuickFacts provides statistics for all states and counties, and for cities and towns with a population of 5,000 or more.

ALL TOPICS	<input checked="" type="checkbox"/> MARTIN COUNTY, NORTH CAROLINA	NORTH CAROLINA	WILLIAMSTON TOWN, NORTH CAROLINA
<b>People</b>			
<b>Population</b>			
Population estimates, July 1, 2015, (V2015)	23,357	10,042,802	NA
Population estimates, July 1, 2014, (V2014)	23,454	9,943,964	5,322
Population estimates base, April 1, 2010, (V2015)	24,505	9,535,692	NA
Population estimates base, April 1, 2010, (V2014)	24,505	9,535,691	5,524
Population, percent change - April 1, 2010 (estimates base) to July 1, 2015, (V2015)	-4.7%	5.3%	NA
Population, percent change - April 1, 2010 (estimates base) to July 1, 2014, (V2014)	-4.3%	4.3%	-3.7%
Population, Census, April 1, 2010	24,505	9,535,483	5,511
<b>Age and Sex</b>			
Persons under 5 years, percent, July 1, 2014, (V2014)	5.2%	6.1%	X
Persons under 5 years, percent, April 1, 2010	5.7%	6.6%	7.5%
Persons under 18 years, percent, July 1, 2014, (V2014)	20.7%	23.0%	X
Persons under 18 years, percent, April 1, 2010	22.2%	23.9%	24.8%
Persons 65 years and over, percent, July 1, 2014, (V2014)	20.6%	14.7%	X
Persons 65 years and over, percent, April 1, 2010	17.5%	12.9%	19.0%
Female persons, percent, July 1, 2014, (V2014)	53.0%	51.3%	X
Female persons, percent, April 1, 2010	53.3%	51.3%	57.6%
<b>Race and Hispanic Origin</b>			
White alone, percent, July 1, 2014, (V2014) (a)	55.0%	71.5%	X
White alone, percent, April 1, 2010 (a)	53.1%	68.5%	34.6%
Black or African American alone, percent, July 1, 2014, (V2014) (a)	42.9%	22.1%	X
Black or African American alone, percent, April 1, 2010 (a)	43.5%	21.5%	62.4%
American Indian and Alaska Native alone, percent, July 1, 2014, (V2014) (a)	0.4%	1.6%	X
American Indian and Alaska Native alone, percent, April 1, 2010 (a)	0.3%	1.3%	0.2%
Asian alone, percent, July 1, 2014, (V2014) (a)	0.5%	2.7%	X
Asian alone, percent, April 1, 2010 (a)	0.3%	2.2%	0.5%
Native Hawaiian and Other Pacific Islander alone, percent, July 1, 2014, (V2014) (a)	0.2%	0.1%	X
Native Hawaiian and Other Pacific Islander alone, percent, April 1, 2010 (a)	Z	0.1%	0.1%
Two or More Races, percent, July 1, 2014, (V2014)	1.0%	2.1%	X
Two or More Races, percent, April 1, 2010	1.0%	2.2%	1.3%
Hispanic or Latino, percent, July 1, 2014, (V2014) (b)	3.6%	9.0%	X
Hispanic or Latino, percent, April 1, 2010 (b)	3.1%	8.4%	2.1%
White alone, not Hispanic or Latino, percent, July 1, 2014, (V2014)	52.2%	64.1%	X
White alone, not Hispanic or Latino, percent, April 1, 2010	52.2%	65.3%	34.0%
<b>Population Characteristics</b>			
Veterans, 2010-2014	1,530	709,471	257
Foreign born persons, percent, 2010-2014	2.1%	7.6%	0.4%
<b>Housing</b>			
Housing units, July 1, 2014, (V2014)	11,558	4,452,334	X
Housing units, April 1, 2010	11,704	4,327,528	2,685
Owner-occupied housing unit rate, 2010-2014	70.5%	65.8%	56.2%

## County Profile

## Martin County (NC)

May 2016

### Demographics

#### Population & Growth

2019 Proj Total Population	23,711
2014 Proj Total Population	24,199
2010 Census Total Population	24,505
July 2014 Certified Population Estimate (NC only)	23,714

#### Population

23,711
24,199
24,505
23,714

#### Annual Growth

( 0.4%)
( 0.4%)

#### Urban/Rural Representation

2010 Census Total Population: Urban
2010 Census Total Population: Rural

5,361
19,144

#### Urban/Rural Percent

21.9%
78.1%

#### Estimated Population by Age

2019 Proj Median Age
2014 Proj Median Age
2014 Proj Total Pop 0-19
2014 Proj Total Pop 20-29
2014 Proj Total Pop 30-39
2014 Proj Total Pop 40-49
2014 Proj Total Pop 50-59
2014 Proj Total Pop 60+

46
45
5,554
2,692
2,411
3,032
3,901
6,609

#### Pop by Age

23.0%
11.1%
10.0%
12.5%
16.1%
27.3%

### Commuters, Workers Age 16 and Over, 2014 Est

#### Percent of Workers, By Travel Time

Avg Travel Time, Minutes	23.9
Workers Not Working at Home	8,911
Travel Time to Work: < 10 minutes	18.8%
Travel Time to Work: 10-14 minutes	18.5%
Travel Time to Work: 15-19 minutes	13.4%
Travel Time to Work: 20-24 minutes	9.2%
Travel Time to Work: 25-29 minutes	4.8%
Travel Time to Work: 30-34 minutes	11.7%
Travel Time to Work: 35-44 minutes	9.0%
Travel Time to Work: 45-59 minutes	8.6%
Travel Time to Work: 60+ minutes	6.1%

#### Workers, By Transportation

Worker Transp, Base	8,911
Work at Home	2.0%
Drove Car/Truck/Van Alone	84.5%
Carpooled Car/Truck/Van	10.7%
Public Transportation	0.1%
Walked	1.9%
Other Transportation	0.9%

#### Place of Work

Worked in State/County of Residence
Worked in State/Outside County of Residence
Worked Outside State of Residence

#### Commuters

5,032
3,860
19

#### Residents

56.5%
43.3%
0.2%

### Education

2014-15 Kindergarten-12th Enrollment
2015 Average SAT score (2400 scale)
2015 Percent of Graduates taking SAT
2013-14 Higher Education Completions
2013-14 Higher Education Total Enrollment
2014 Est Education Attainment - At Least High School Graduate
2014 Est Education Attainment - At Least Bachelor's Degree

6,255
1,321
50.3%
164
1,046
13,788
2,183

#### Pop Age 25+

81.3%
12.9%



## Housing

		% Growth or % of Total
2019 Proj Total Housing	11,868	0.2%
2014 Proj Total Housing	11,840	
2010 Census Total Housing	10,318	
2010 Census Occupied Housing	8,932	86.6%
2010 Census Vacant Housing	1,386	13.4%
2014 Est Median Value of Owner Occupied Housing	\$86,200	
2014 Est Median Gross Rent	\$620	
2014 Est Owner Occupied Housing	6,673	70.5%
2014 Est Renter Occupied Housing	2,792	29.5%
2014 Est Owner Occupied Housing Vacancy	2.5%	
2014 Est Renter Occupied Housing Vacancy	10.4%	
2010 Census Total Households	11,704	

## Income

		% Growth or % of Total
2014 Est Median Family Income	\$48,828	37.8%
2019 Proj Median Household Income	\$38,937	14.6%
2014 Proj Median Household Income	\$33,968	18.6%
2014 Est Median Worker Earnings	\$28,093	
2019 Proj Per Capita Income	\$20,929	1.6%
2014 Proj Per Capita Income	\$19,295	27.8%
2014 Est Total Pop with Income Below Poverty Level, Last 12 months	5,358	22.50%

## Employment / Unemployment

	Currently	2015 Annual
Mar 2016 Prelim., 2015 Employment	9,154	8,981
Mar 2016 Prelim., 2015 Unemployment	704	750
Mar 2016 Prelim., 2015 Unemployment Rate	7.1%	7.7%
2015Q4 YTD, 2015 Announced Job Creation	88	88
2015Q4 YTD, 2015 Total Announced Investments (\$mil)	\$19.5	\$19.5

### Employment / Wages by Industry

	2015Q3 Employment	2014 Annual Employment	2015Q3 Avg Weekly Wage	2014 Avg Weekly Wage
Total All Industries	6,816	7,117	\$552	\$567
Total Government	1,396	1,497	\$650	\$609
Total Private Industry	5,419	5,620	\$526	\$556
Agriculture Forestry Fishing & Hunting	321	292	\$632	\$614
Mining	0	0	\$0	\$0
Utilities	0	0	.	.
Construction	226	249	\$729	\$1,041
Manufacturing	910	986	\$649	\$697
Wholesale Trade	171	183	\$605	\$639
Retail Trade	1,105	1,115	\$422	\$413
Transportation and Warehousing	40	42	\$1,004	\$827
Information	36	42	\$862	\$1,002
Finance and Insurance	260	275	\$1,019	\$1,058
Real Estate and Rental and Leasing	31	30	\$523	\$532
Professional and Technical Services	0	0	.	.
Mgt of Companies, Enterprises	0	0	.	.
Administrative and Waste Services	144	169	\$358	\$398
Educational Services	527	627	\$739	\$665
Health Care and Social Assistance	0	0	.	.
Arts, Entertainment and Recreation	0	33	.	\$396
Accommodation and Food Services	0	767	.	\$213
Other Services Ex. Public Admin	68	58	\$387	\$444
Public Administration	645	649	\$584	\$573
Unclassified	0	0	\$0	\$0

## Commercial/Retail/Industrial

### Local Businesses

Apr 2016 Available Industrial Buildings	1
2015Q3 Establishments: Total Private Industry	443
2015Q3 Establishments: Manufacturing	15
2014 Est Self Employed	663

### Local Retail Business

2014 Total Retail Sales (With Food/Drink) (\$mil)	\$243.3
2014 Total Retail Businesses (With Food/Drink)	175
2014 Avg Sales/Business Total (with Food/Drink)	\$1,390,315
Apr 2016 Available Commercial Buildings (if reported)	.

## Quality of Life

### Taxes

FY2015-16 Property Tax Rate per \$100 Value	\$0.7350
FY2014-15 Annual Taxable Retail Sales (\$mil)	\$188.4
2016 Tier designation	1

### Childcare

2015Q4 Licensed Child Care Facilities	27
2015Q4 Licensed Child Care Enrollment	752

### Weather

Annual Rainfall, inches	52
Annual Snowfall, inches	6
Average Annual Temperature, F	61
Average Annual High Temperature, F	71
Average Annual Low Temperature, F	50

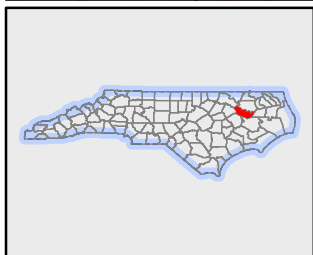
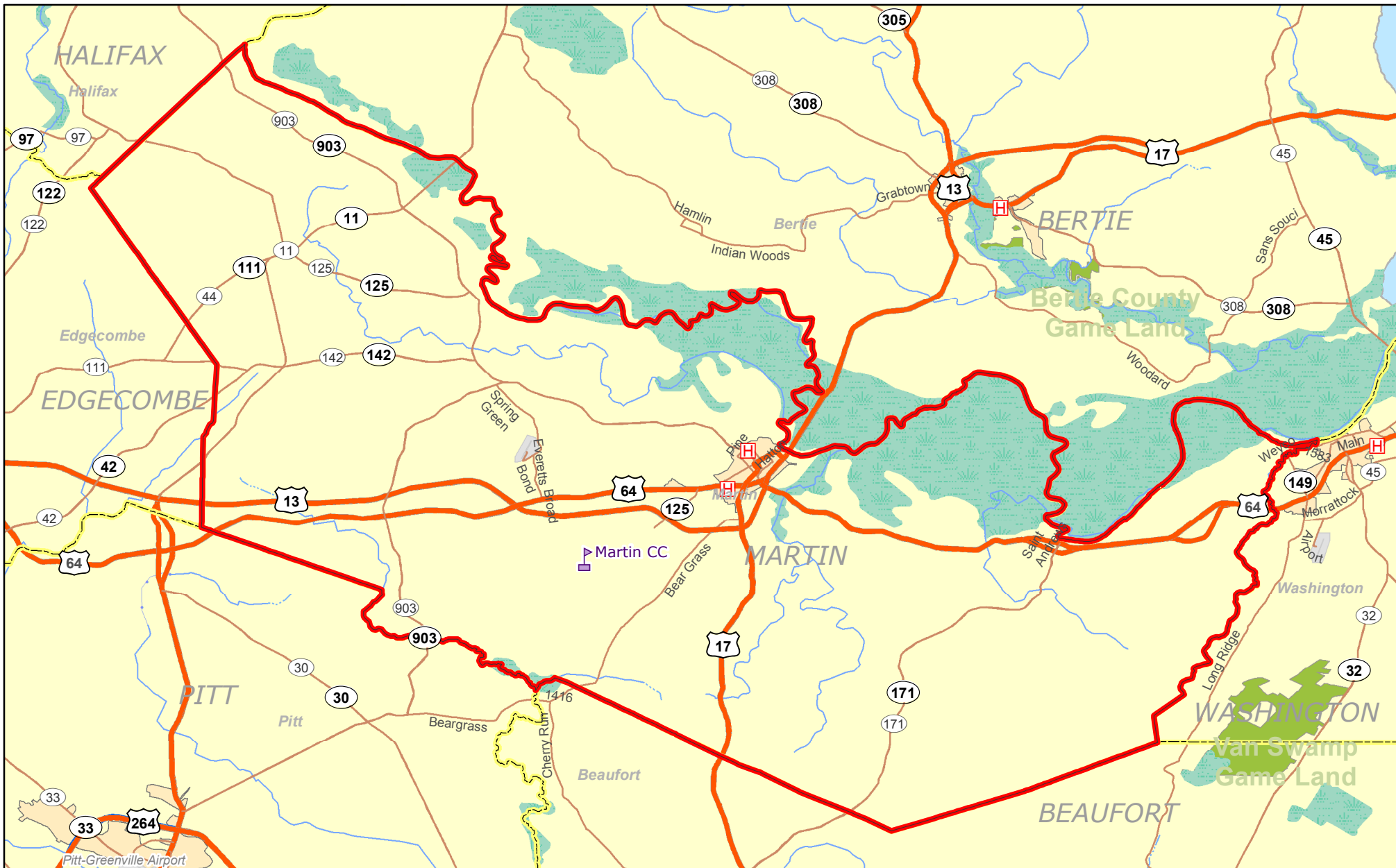
### Healthcare Providers

2013 Number of Physicians	20
2013 Physicians per 10,000 population	8.4
2013 RNs per 10,000 population	66.5
2013 Dentists per 10,000 population	2.1
2013 Pharmacists per 10,000 population	9.7

**Sources:**  
ESRI for demographics, housing, income, and retail data. Applied Geographic Solutions for weather and crime data. [www.appliedgeographic.com](http://www.appliedgeographic.com). NC Dept. of Education for SAT data by county system. <http://www.ncpublicschools.org>. US Dept. of Education, National Center for Education Statistics for higher education data. <http://nces.ed.gov/ipeds/>. NC Commerce, Labor and Economic Analysis Division, for announced new jobs and investment, NC tiers, occupational data, and industrial buildings. <http://www.nccommerce.com/en>. NC Dept. of Health & Human Services for childcare data. <http://www.ncdhhs.gov/>. UNC Sheps Center for healthcare provider statistics. <http://www.shepscenter.unc.edu/>. US Bureau of Labor Statistics for employment and unemployment, wages and establishments by industry. <http://www.bls.gov>. US Census, 2010 and 2000 Census, 5-year series American Community Survey for demographics, commuters, place of work, educational attainment, housing, and income. <http://factfinder2.census.gov>.

**Notes:**  
Data are the latest available at the date the profile was prepared. SAT scores use the new scoring system including a writing test for a perfect score of 2400 and represent county systems. Unemployment data are now showing preliminary month and subject to change. ESRI 2014/2019 data are projections and noted as proj. Some data may be available only for North Carolina. 2010 Census data is noted as such. American Community Survey (ACS) data are estimates and noted as est and is from the 2010-14, 5 year survey and data is as of the end year with dollars inflated to the end year. For further details or questions, please check the Data Sources Guide at [https://edis.commerce.state.nc.us/docs/bibliography/Data\\_Sources\\_Guide.pdf](https://edis.commerce.state.nc.us/docs/bibliography/Data_Sources_Guide.pdf) or click on it under Resources. Additional data and reports are available at: <http://www.nccommerce.com/lead>.

# Martin County, North Carolina



## Legend

Airports by Enplanements

✈ >14 ✈ 3-14 ✈ <3 (Million)

🏫 Pub/Pri Univ./Comm Col.

🏥 Hospital

— Interstate

— US Highway

— Major Road

— Railroads

— County Boundary



5 Miles

## County Profile

## Bertie County (NC)

May 2016

### Demographics

#### Population & Growth

2019 Proj Total Population	20,844
2014 Proj Total Population	21,258
2010 Census Total Population	21,282
July 2014 Certified Population Estimate (NC only)	20,617

#### Population

20,844
21,258
21,282
20,617

#### Annual Growth

( 0.4%)
0.8%

#### Urban/Rural Representation

2010 Census Total Population: Urban
2010 Census Total Population: Rural

3,566
17,716

#### Urban/Rural Percent

16.8%
83.2%

#### Estimated Population by Age

2019 Proj Median Age
2014 Proj Median Age
2014 Proj Total Pop 0-19
2014 Proj Total Pop 20-29
2014 Proj Total Pop 30-39
2014 Proj Total Pop 40-49
2014 Proj Total Pop 50-59
2014 Proj Total Pop 60+

44
43
4,583
2,818
2,363
2,625
3,461
5,408

#### Pop by Age

21.6%
13.3%
11.1%
12.3%
16.3%
25.4%

### Commuters, Workers Age 16 and Over, 2014 Est

#### Percent of Workers, By Travel Time

Avg Travel Time, Minutes	24.6
Workers Not Working at Home	7,035
Travel Time to Work: < 10 minutes	17.8%
Travel Time to Work: 10-14 minutes	14.4%
Travel Time to Work: 15-19 minutes	15.1%
Travel Time to Work: 20-24 minutes	12.0%
Travel Time to Work: 25-29 minutes	7.4%
Travel Time to Work: 30-34 minutes	12.6%
Travel Time to Work: 35-44 minutes	4.2%
Travel Time to Work: 45-59 minutes	8.7%
Travel Time to Work: 60+ minutes	8.0%

#### Workers, By Transportation

Worker Transp, Base	7,035
Work at Home	2.2%
Drove Car/Truck/Van Alone	83.6%
Carpooled Car/Truck/Van	12.1%
Public Transportation	0.5%
Walked	1.0%
Other Transportation	0.7%

#### Place of Work

Worked in State/County of Residence
Worked in State/Outside County of Residence
Worked Outside State of Residence

#### Commuters

3,866
2,928
241

#### Residents

55.0%
41.6%
3.4%

### Education

2014-15 Kindergarten-12th Enrollment	2,609
2015 Average SAT score (2400 scale)	1,156
2015 Percent of Graduates taking SAT	75.0%
2013-14 Higher Education Completions	.
2013-14 Higher Education Total Enrollment	.
2014 Est Education Attainment - At Least High School Graduate	11,100
2014 Est Education Attainment - At Least Bachelor's Degree	1,647

#### Pop Age 25+

74.9%
11.1%

## Housing

		% Growth or % of Total
2019 Proj Total Housing	10,189	1.0%
2014 Proj Total Housing	10,084	
2010 Census Total Housing	8,359	
2010 Census Occupied Housing	6,896	82.5%
2010 Census Vacant Housing	1,463	17.5%
2014 Est Median Value of Owner Occupied Housing	\$79,300	
2014 Est Median Gross Rent	\$620	
2014 Est Owner Occupied Housing	5,607	73.2%
2014 Est Renter Occupied Housing	2,055	26.8%
2014 Est Owner Occupied Housing Vacancy	2.3%	
2014 Est Renter Occupied Housing Vacancy	10.2%	
2010 Census Total Households	9,822	

## Income

		% Growth or % of Total
2014 Est Median Family Income	\$38,566	27.9%
2019 Proj Median Household Income	\$34,878	17.1%
2014 Proj Median Household Income	\$29,779	18.3%
2014 Est Median Worker Earnings	\$24,701	
2019 Proj Per Capita Income	\$18,210	1.5%
2014 Proj Per Capita Income	\$16,867	19.7%
2014 Est Total Pop with Income Below Poverty Level, Last 12 months	4,967	25.50%

## Employment / Unemployment

	Currently	2015 Annual
Mar 2016 Prelim., 2015 Employment	8,229	8,003
Mar 2016 Prelim., 2015 Unemployment	635	627
Mar 2016 Prelim., 2015 Unemployment Rate	7.2%	7.3%
2015Q4 YTD, 2015 Announced Job Creation	.	.
2015Q4 YTD, 2015 Total Announced Investments (\$mil)	.	.

### Employment / Wages by Industry

	2015Q3 Employment	2014 Annual Employment	2015Q3 Avg Weekly Wage	2014 Avg Weekly Wage
Total All Industries	6,362	6,307	\$569	\$563
Total Government	1,430	88	\$695	\$965
Total Private Industry	4,932	4,881	\$533	\$536
Agriculture Forestry Fishing & Hunting	0	0	.	.
Mining	0	0	.	.
Utilities	0	0	\$0	.
Construction	0	76	.	\$549
Manufacturing	0	2,091	.	\$567
Wholesale Trade	62	0	\$870	.
Retail Trade	310	277	\$412	\$431
Transportation and Warehousing	142	128	\$712	\$691
Information	0	0	.	.
Finance and Insurance	75	71	\$651	\$667
Real Estate and Rental and Leasing	0	0	.	.
Professional and Technical Services	0	32	.	\$552
Mgt of Companies, Enterprises	0	0	.	\$0
Administrative and Waste Services	416	374	\$548	\$564
Educational Services	93	527	\$436	\$632
Health Care and Social Assistance	813	0	\$417	.
Arts, Entertainment and Recreation	48	34	\$315	\$393
Accommodation and Food Services	145	172	\$180	\$202
Other Services Ex. Public Admin	94	107	\$372	\$376
Public Administration	829	353	\$685	\$630
Unclassified	0	0	\$0	\$0

## Commercial/Retail/Industrial

### Local Businesses

Apr 2016 Available Industrial Buildings	3
2015Q3 Establishments: Total Private Industry	285
2015Q3 Establishments: Manufacturing	13
2014 Est Self Employed	351

### Local Retail Business

2014 Total Retail Sales (With Food/Drink) (\$mil)	\$66.7
2014 Total Retail Businesses (With Food/Drink)	106
2014 Avg Sales/Business Total (with Food/Drink)	\$629,327
Apr 2016 Available Commercial Buildings (if reported)	.

## Quality of Life

### Taxes

FY2015-16 Property Tax Rate per \$100 Value	\$0.8400
FY2014-15 Annual Taxable Retail Sales (\$mil)	\$79.1
2016 Tier designation	1

### Childcare

2015Q4 Licensed Child Care Facilities	21
2015Q4 Licensed Child Care Enrollment	437

### Weather

Annual Rainfall, inches	48
Annual Snowfall, inches	7
Average Annual Temperature, F	60
Average Annual High Temperature, F	72
Average Annual Low Temperature, F	49

### Healthcare Providers

2013 Number of Physicians	9
2013 Physicians per 10,000 population	4.4
2013 RNs per 10,000 population	53.4
2013 Dentists per 10,000 population	0.5
2013 Pharmacists per 10,000 population	3.9

### Sources:

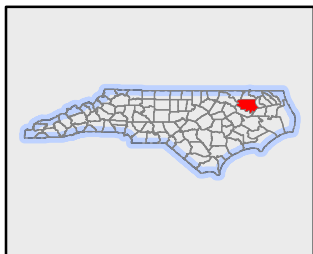
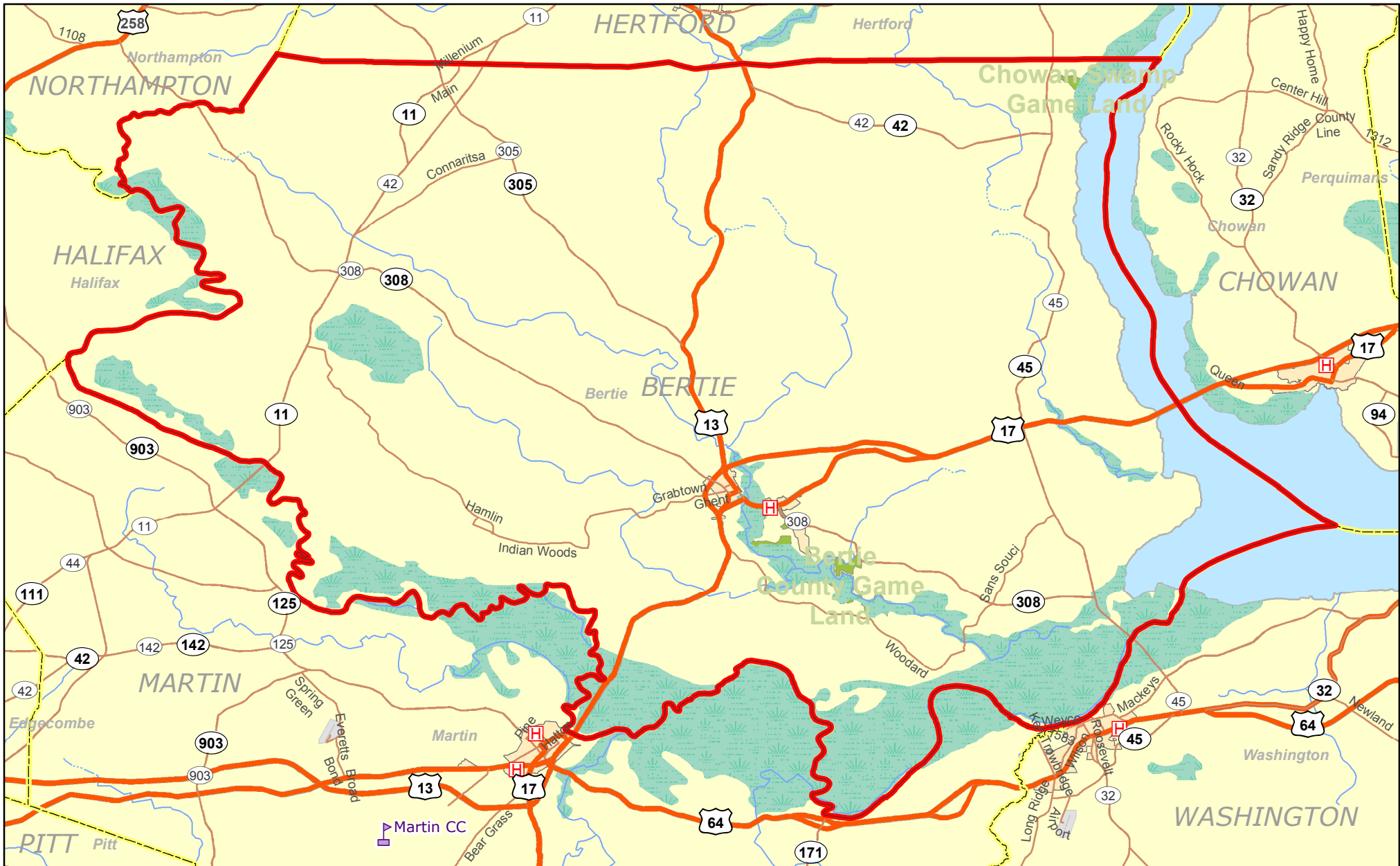
ESRI for demographics, housing, income, and retail data. Applied Geographic Solutions for weather and crime data. [www.appliedgeographic.com](http://www.appliedgeographic.com). NC Dept. of Education for SAT data by county system. <http://www.ncpublicschools.org>. US Dept. of Education, National Center for Education Statistics for higher education data. <http://nces.ed.gov/ipeds/>. NC Commerce, Labor and Economic Analysis Division, for announced new jobs and investment, NC tiers, occupational data, and industrial buildings. <http://www.nccommerce.com/en>. NC Dept. of Health & Human Services for childcare data. <http://www.ncdhhs.gov/>. UNC Sheps Center for healthcare provider statistics. <http://www.shepscenter.unc.edu/>. US Bureau of Labor Statistics for employment and unemployment, wages and establishments by industry. <http://www.bls.gov>. US Census, 2010 and 2000 Census, 5-year series American Community Survey for demographics, commuters, place of work, educational attainment, housing, and income. <http://factfinder2.census.gov>.

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# Bertie County, North Carolina



## Legend

Airports by Enplanements

✈ >14 ✈ 3-14 ✈ < 3 (Million)

🏫 Pub/Pri Univ./Comm Col.

🏥 Hospital

— Interstate

— US Highway

— Major Road

— Railroads

— County Boundary



5.5 Miles

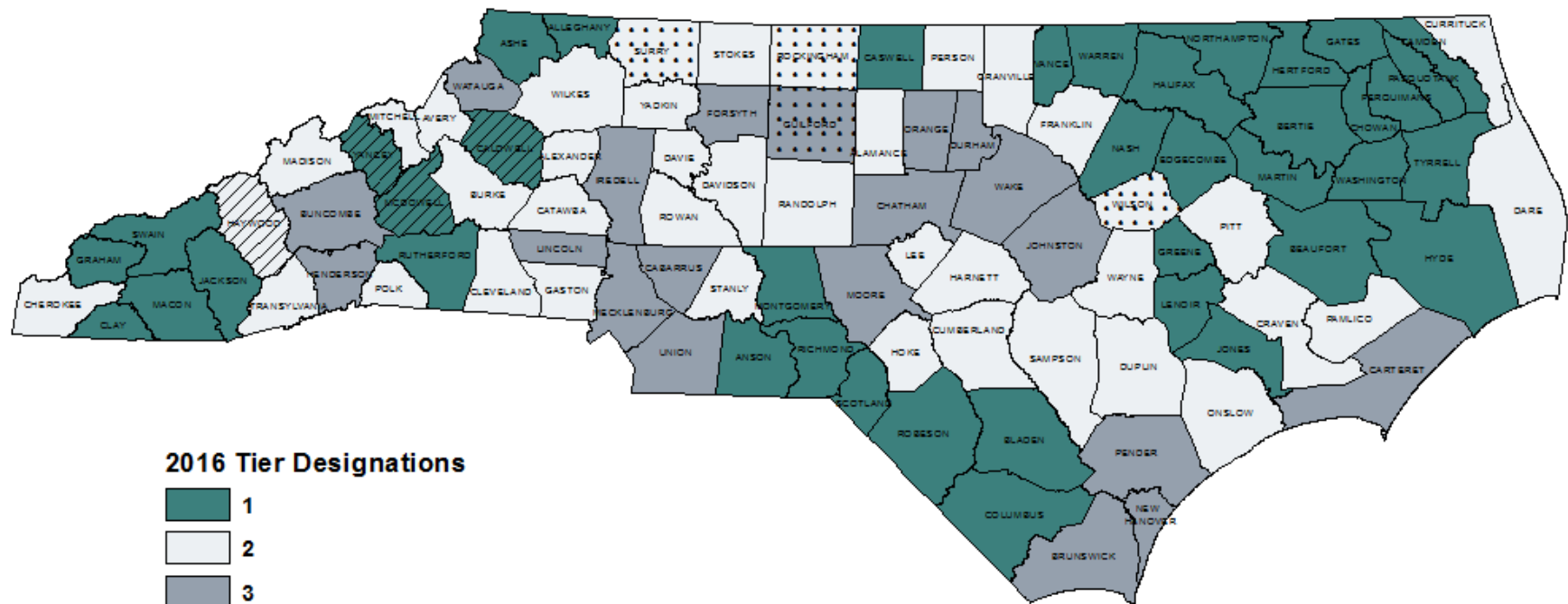
Attachment 4

Tier Rankings

This attachment pertains to question 8.



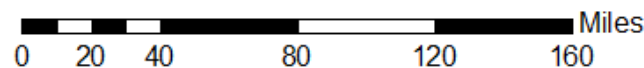
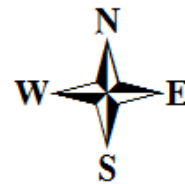
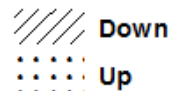
# 2016 County Tier Designations



## 2016 Tier Designations



## Tier Change from 2015



**NORTH  
CAROLINA**  
DEPARTMENT OF COMMERCE

Attachment 5  
Economic Snapshots

This attachment pertains to question 9.



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# County Quick Facts

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## ECONOMIC SNAPSHOT: MARTIN COUNTY

*The Budget and Tax Center's Economic Snapshots provide a look at how well counties in North Carolina are faring across key indicators of economic well-being and opportunity.*

**Martin County has a population of 23,494, which is a decrease of 4.7% over the last decade.<sup>1</sup>**

### MEDIA CONTACT:

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919/861-1451  
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### AVAILABILITY OF JOBS<sup>2</sup>

- There were 693 people looking for work in Martin County compared to 217 job openings in December 2015.
- The county's unemployment rate was 7.2% in December 2015 compared to 6.4% in December 2014.
- There were 2,481 fewer employed people in the county in December 2015 than there were in December 2007 (when the Great Recession began).

### POVERTY AND ECONOMIC HARDSHIP

- 19.7% of county residents (4,584 people) lived in poverty and struggled to make ends meet in 2014; the state poverty rate was 17.2%.<sup>3</sup>
- 32.4% of children in the county (1,552 children) lived in poverty in 2014, compared to 24.1% statewide.<sup>4</sup>
- The poverty rate varies by race: 27.7% of African Americans in the county lived in poverty compared to 16.4% of whites on average from 2010 to 2014.<sup>5</sup>
- 42.1% of the county's residents were low-income on average from 2010 to 2014, meaning their incomes were less than twice the federal poverty level (\$47,700 for a family of four in 2014).<sup>6</sup>

### ABILITY TO AFFORD THE BASICS

- The county's hourly median wage of \$14.99 equaled 95.9% of the state median wage of \$15.63 in 2015. The county's median hourly wage grew by \$2.79 since the recovery began in 2009.<sup>7</sup>



- For a family size of three it costs \$20.22 per hour to make ends meet in the county, where the hourly median wage equals 74.1% of what's needed.<sup>8</sup>
- Median household income in the county was \$35,930, which equaled 77.1% of the statewide household income of \$46,596 in 2014.<sup>9</sup>
- The richest 5% of the county's households had an average income that was 18 times greater than that of the poorest fifth of households and 4 times greater than that of the middle fifth of households on average from 2010 to 2014.<sup>10</sup>

#### **ACCESS TO AFFORDABLE HOUSING**

- 42.1% of renters in this county spent 30% or more of their income towards rent—meaning their rent was unaffordable—on average from 2010-2014.<sup>11</sup>
- Rent and utilities for a safe, modest two-bedroom unit at the county's fair market monthly rent was \$632 in 2015.<sup>12</sup>
- The two-bedroom housing wage in the county was \$12.15 in 2015, which far exceeds the state's minimum wage of \$7.25 per hour. This means that a person earning the minimum wage would have to work 67 hours per week to afford a modest two-bedroom unit at fair market rent.<sup>13</sup>

#### **HEALTHY LIVES AND COMMUNITIES**

- 18.4% of the county's residents did not have health insurance, compared to 15.5% of all North Carolinians on average from 2010 to 2014.<sup>14</sup>
- The life expectancy rate for an African-American child born in the county is 75.3 whereas the rate is 75.9 for a white child. The life expectancy for all children born in this county was 75.6 on average from 2012 to 2014.<sup>15</sup>
- There was 1 mental health provider for every 878 residents in the county in 2015.<sup>16</sup>

#### **EDUCATIONAL ATTAINMENT**

- The graduation rate for this county was 75.5% compared to the state rate of 85.6% in 2014-15.<sup>17</sup>
- The graduation rate for African Americans in this county was 70.2% compared to 90% for Hispanics and 82.4% for whites in 2014-15.<sup>18</sup>
- 12.9% of adults in this county had a Bachelor's degree or higher compared to 27.8% statewide on average from 2010 to 2014.<sup>19</sup>
- 14.9% of women in this county had a Bachelor's degree or higher compared to 10.4% of men on average from 2010 to 2014. Of those with this level of educational attainment, the median earnings for women was \$34,948 compared to \$42,371 for men.<sup>20</sup>

**WORK AND INCOME SUPPORTS TO AVOID POVERTY**

- 5,732 of the county's residents received assistance from the food and nutrition services (or food stamps) program in December 2015, with 24.3% of residents receiving assistance.<sup>21</sup>
- Due to the return of the harsh three-month time limit for nondisabled childless adults, 386 people in this county (and more than 100,000 statewide) could lose food assistance in 2016 if they don't meet certain exemptions.<sup>22</sup>
- 5,833 people in the county were eligible for Medicaid in December 2015, an increase of 6.8% since December 2007 when the recession began. Estimates suggest that 1,556 North Carolinians in the county would benefit from Medicaid Expansion, delivering \$24 million in economic benefits to the county.<sup>23</sup>
- In 2013, 2,515 tax filers in the county claimed the state Earned Income Tax Credit, which lawmakers allowed to expire that year. The tax credit went to people that worked but earned low wages, and the benefits totaled \$288,208 in the county. These were dollars that helped workers make ends meet by allowing them to keep more of what they earned to support their children.<sup>24</sup>

1 NC Office of State Budget and Management, Population Estimates, July 2006 (actual) and 2016 (projected).

2 NCWorks Online, Advertised Job Data and Local Area Unemployment Statistics (not seasonally adjusted), December 2007, 2014, and 2015.

3,4 US Census Bureau, Small Area Income and Poverty Estimates, 2014.

5,6 US Census Bureau, American Community Survey, 2010-2014.

7 NC Department of Commerce, Occupational Employment Statistics, 2015 and 2009 (adjusted for inflation).

8 Ibid and NC Budget and Tax Center, Living Income Standard, 2014.

9 US Census Bureau, Small Area Income and Poverty Estimates, 2014.

10,11 US Census Bureau, American Community Survey, 2010-2014.

12,13 National Low Income Housing Coalition, Out of Reach, 2015.

14 US Census Bureau, American Community Survey, 2010-2014.

15 NC State Center for Health Statistics, 2012-2014.

16 County Health Rankings & Roadmaps, 2015. This data comes from the National Provider Identification data file, which has some limitations and may result in an overestimate of active mental health providers in some counties.

17,18 NC Department of Public Instruction, 4-Year Cohort 2014-2015.

19,20 US Census Bureau, American Community Survey, 2010-2014.

21 NC Division of Social Services, FNS Individuals Data, December 2015 & NC Office of State Budget and Management, Population Estimates, July 2015.

22 Special Data Request to the Department of Health and Human Services, July 2015. For more information on the time limit see: Mitchell, Tazra. "BTC Policy Basic: SNAP Policy." NC Budget and Tax Center. November 2015.

23 NC Division of Medical Assistance, December 2007 and 2015; and Cone Health Foundation. "The Economic and Employment Costs of Not Expanding Medicaid in North Carolina: A County-Level Analysis." December 2014.

24 Special Data Request, NC Department of Revenue, Preliminary Run of 2013 Individual Income Tax Extract.



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## ECONOMIC SNAPSHOT: BERTIE COUNTY

*The Budget and Tax Center's Economic Snapshots provide a look at how well counties in North Carolina are faring across key indicators of economic well-being and opportunity.*

**Bertie County has a population of 20,100, which is an increase of 1.3% over the last decade.<sup>1</sup>**

MEDIA CONTACT:

**TAZRA MITCHELL**  
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### AVAILABILITY OF JOBS<sup>2</sup>

- There were 607 people looking for work in Bertie County compared to 162 job openings in December 2015.
- The county's unemployment rate was 7.1% in December 2015 compared to 6.6% in December 2014.
- There were 331 fewer employed people in the county in December 2015 than there were in December 2007 (when the Great Recession began).

### POVERTY AND ECONOMIC HARDSHIP

- 27.7% of county residents (5,212 people) lived in poverty and struggled to make ends meet in 2014; the state poverty rate was 17.2%.<sup>3</sup>
- 38.9% of children in the county (1,447 children) lived in poverty in 2014, compared to 24.1% statewide.<sup>4</sup>
- The poverty rate varies by race: 33.7% of African Americans and 46.5% of Latinos in the county lived in poverty compared to 10.2% of whites on average from 2010 to 2014.<sup>5</sup>
- 54.4% of the county's residents were low-income on average from 2010 to 2014, meaning their incomes were less than twice the federal poverty level (\$47,700 for a family of four in 2014).<sup>6</sup>

### ABILITY TO AFFORD THE BASICS

- The county's hourly median wage of \$13.78 equaled 88.2% of the state median wage of \$15.63 in 2015. The county's median hourly wage grew by \$2.33 since the recovery began in 2009.<sup>7</sup>





- For a family size of three it costs \$20.29 per hour to make ends meet in the county, where the hourly median wage equals 67.9% of what's needed.<sup>8</sup>
- Median household income in the county was \$31,217, which equaled 67% of the statewide household income of \$46,596 in 2014.<sup>9</sup>
- The richest 5% of the county's households had an average income that was 21 times greater than that of the poorest fifth of households and 5 times greater than that of the middle fifth of households on average from 2010 to 2014.<sup>10</sup>

### **ACCESS TO AFFORDABLE HOUSING**

- 67.7% of renters in this county spent 30% or more of their income towards rent—meaning their rent was unaffordable—on average from 2010-2014.<sup>11</sup>
- Rent and utilities for a safe, modest two-bedroom unit at the county's fair market monthly rent was \$632 in 2015.<sup>12</sup>
- The two-bedroom housing wage in the county was \$12.15 in 2015, which far exceeds the state's minimum wage of \$7.25 per hour. This means that a person earning the minimum wage would have to work 67 hours per week to afford a modest two-bedroom unit at fair market rent.<sup>13</sup>

### **HEALTHY LIVES AND COMMUNITIES**

- 15.1% of the county's residents did not have health insurance, compared to 15.5% of all North Carolinians on average from 2010 to 2014.<sup>14</sup>
- The life expectancy rate for an African-American child born in the county is 75.7 whereas the rate is 78.1 for a white child. The life expectancy for all children born in this county was 76.6 on average from 2012 to 2014.<sup>15</sup>
- There was 1 mental health provider for every 2,034 residents in the county in 2015.<sup>16</sup>

### **EDUCATIONAL ATTAINMENT**

- The graduation rate for this county was 84.6% compared to the state rate of 85.6% in 2014-15.<sup>17</sup>
- The graduation rate for African Americans in this county was 86% compared to 76.3% for whites in 2014-15.<sup>18</sup>
- 11.1% of adults in this county had a Bachelor's degree or higher compared to 27.8% statewide on average from 2010 to 2014.<sup>19</sup>
- 14% of women in this county had a Bachelor's degree or higher compared to 8.2% of men on average from 2010 to 2014. Of those with this level of educational attainment, the median earnings for women was \$36,087 compared to \$61,813 for men.<sup>20</sup>

**WORK AND INCOME SUPPORTS TO AVOID POVERTY**

- 5,549 of the county's residents received assistance from the food and nutrition services (or food stamps) program in December 2015, with 27.3% of residents receiving assistance.<sup>21</sup>
- Due to the return of the harsh three-month time limit for nondisabled childless adults, 391 people in this county (and more than 100,000 statewide) could lose food assistance in 2016 if they don't meet certain exemptions.<sup>22</sup>
- 5,678 people in the county were eligible for Medicaid in December 2015, an increase of 11.6% since December 2007 when the recession began. Estimates suggest that 613 North Carolinians in the county would benefit from Medicaid Expansion, delivering \$9.6 million in economic benefits to the county.<sup>23</sup>
- In 2013, 2,645 tax filers in the county claimed the state Earned Income Tax Credit, which lawmakers allowed to expire that year. The tax credit went to people that worked but earned low wages, and the benefits totaled \$316,426 in the county. These were dollars that helped workers make ends meet by allowing them to keep more of what they earned to support their children.<sup>24</sup>

1 NC Office of State Budget and Management, Population Estimates, July 2006 (actual) and 2016 (projected).

2 NCWorks Online, Advertised Job Data and Local Area Unemployment Statistics (not seasonally adjusted), December 2007, 2014, and 2015.

3,4 US Census Bureau, Small Area Income and Poverty Estimates, 2014.

5,6 US Census Bureau, American Community Survey, 2010-2014.

7 NC Department of Commerce, Occupational Employment Statistics, 2015 and 2009 (adjusted for inflation).

8 Ibid and NC Budget and Tax Center, Living Income Standard, 2014.

9 US Census Bureau, Small Area Income and Poverty Estimates, 2014.

10,11 US Census Bureau, American Community Survey, 2010-2014.

12,13 National Low Income Housing Coalition, Out of Reach, 2015.

14 US Census Bureau, American Community Survey, 2010-2014.

15 NC State Center for Health Statistics, 2012-2014.

16 County Health Rankings & Roadmaps, 2015. This data comes from the National Provider Identification data file, which has some limitations and may result in an overestimate of active mental health providers in some counties.

17,18 NC Department of Public Instruction, 4-Year Cohort 2014-2015.

19,20 US Census Bureau, American Community Survey, 2010-2014.

21 NC Division of Social Services, FNS Individuals Data, December 2015 & NC Office of State Budget and Management, Population Estimates, July 2015.

22 Special Data Request to the Department of Health and Human Services, July 2015. For more information on the time limit see: Mitchell, Tazra. "BTC Policy Basic: SNAP Policy." NC Budget and Tax Center. November 2015.

23 NC Division of Medical Assistance, December 2007 and 2015; and Cone Health Foundation. "The Economic and Employment Costs of Not Expanding Medicaid in North Carolina: A County-Level Analysis." December 2014.

24 Special Data Request, NC Department of Revenue, Preliminary Run of 2013 Individual Income Tax Extract.



Attachment 6  
Martin County Strategic Plan

These attachments pertain to question 10.



# MARTIN COUNTY COMMUNICATIONS

305 EAST MAIN STREET

WILLIAMSTON, NORTH CAROLINA

## **5 YEAR STRATEGIC / TECHNOLOGY PLAN**

### **MISSION**

The Mission of the Martin County Central E911 Emergency Communications Center is to provide timely, efficient, and convenient access to public safety services for the citizens of the County, those visiting, of those passing through while ensuring the safety of the responder community.

### **PLANNING FOR PERFORMANCE**

Martin County Communications is committed to using a strategic planning process as both a public education tool as well as to inform our employees, internal and external partners, and the community for our long-term goals and initiatives for maintaining a successful organization. This process includes:

1. Raising agency and County-wide awareness of the Communications Center and its Operation.
2. Creating employee driven planning and review groups. Dispatch steering, employee selection and training, and technology review.
3. Enforcing and ensuring continued compliance with the agency's mission statement as well as developing a vision statement.
4. Utilizing existing staff strengths to determine areas for improvement.
5. Develop strategic goals and plans to obtain.

## **MARTIN COUNTY COMMUNICATIONS STRATEGIC OBJECTIVES**

The following strategic objectives represent the steps necessary for Martin County Communications to continue to be a leading 911 Center in the State of North Carolina, as well as to seek opportunities for improvement.

### **Mission and Customer:**

- Deliver excellent 911 and administrative/routine public safety services
- Ensure adequate staffing, training, and emergency preparedness through increased redundancy (backup center) and more focused hiring processes.

### **Business Processes:**

- Ensure compliance with all national and state 911 call taking standards
- Continue to promote 911 and public safety communications awareness through continued use of the media, social media, word-of-mouth, attendance at responder training events, and scheduled public visits.

### **Empowerment, Learning, and Growth:**

- Provide employees with training opportunities and career development
- Promote professional departmental culture
- Delegate certain administrative and quality assurance duties to seasoned staff to provide ownership of quality initiative and 911 center overall.

### **Finance and Resources:**

- Actively recruit and maintain a highly motivated and trained workforce
- Utilize agency resources efficiently and responsibly
- Seek appropriate and eligible alternative funding resources to provide high quality technology and other equipment inside of the 911 center.

## **PLAN TIMELINE**

### **2015:**

- Implement and begin utilizing Emergency Medical Dispatch Protocol
- Train 2 staff members as Quality Assurance Members to ensure compliance with EMD protocol and standards
- Form Dispatch Review and Steering Committees and begin meeting on pre-established schedule
- Attend EMS peer review with “floor level” Telecommunicator to provide ownership of call quality standards
- Complete final adjustments to new telephone system to include wireless headsets with radio/telephone integration, ergonomic touch screen telephone control panels, and optimum audio quality
- Begin and complete edit and revision of Telecommunicators’ Standard Operating Guidelines Handbook; convert paper copies to electronic versions available through webmail app or work station desktop icon.

### **2016/2017:**

- Continue to cross-train staff in an effort to ensure redundancy and continuity of operations
- Develop a continuity of operations plan to include proposed backup 911 center and/or finalize Memorandums of Understanding with neighboring counties to ensure compliance with statutorily required backup plan/center
- Develop standardized training plan for all new employees and train 4 staff members as Communications Training Officers (CTO)
- Finalize Text-to-911 Service in Martin County
- Attend demonstrations and obtain quotes and funding for CAD reset/upgrade
- Obtain 2 additional seats/workstations in Communications Center to accommodate all available staff in the event of an emergency (2 full time staff, 1 part time member, cross-trained Addressing Coordinator, Manager)

**2018/2019:**

- Promote existing staff member to Assistant Director (if position approved by County Manager and Board of Commissioners) to better obtain and maintain objectives previously set forth
- Develop stress and health awareness training exclusive to Communications Staff in an effort to reduce sick time and address issues unique to 911 dispatchers (i.e. sleep, stress, family issues)
- Develop classroom training for new employees to include unusual occurrences, use of technology, and daily operations

**2020:**

- Seek funding for radio/CAD/Telephone upgrade to include text/video/social media reporting to 911; continue research on NextGen 911
- Develop partnerships with neighboring Counties to freely and easily handle call overload or assist with major incidents through advancements in technology
- Adjust staffing and equipment/technology needs to concur with current population and call for service shifts

Attachment 7  
Fund Balance Information

These attachments pertain to question 11.

05/17/2016 14:45  
change

MARTIN COUNTY  
YEAR-TO-DATE BUDGET REPORT

P 1  
glytdbud

FOR 2016 13

ACCOUNTS FOR: 0013 E-911 FUND	ORIGINAL APPROP	TRANFRS/ ADJSTMTS	REVISED BUDGET	YTD ACTUAL	ENCUMBRANCES	AVAILABLE BUDGET	PCT USED
-----							
1300025 Restricted Intergov -----							
1300025 425600 E-911	-207,640	0	-207,640	-204,525.22	.00	-3,114.78	98.5%*
TOTAL Restricted Intergov	-207,640	0	-207,640	-204,525.22	.00	-3,114.78	98.5%
1300090 Budgetary -----							
1300090 499099 Fund Balance Approp	0	-200,000	-200,000	.00	.00	-200,000.00	.0%*
TOTAL Budgetary	0	-200,000	-200,000	.00	.00	-200,000.00	.0%
1343260 E-911 -----							
1343260 526100 Office Supplies & M	2,500	0	2,500	145.00	.00	2,355.00	5.8%
1343260 526150 Supplies-Equip (\$25	7,500	0	7,500	1,519.00	1,390.72	4,590.28	38.8%
1343260 532100 Telephone	50,000	0	50,000	33,617.46	.00	16,382.54	67.2%
1343260 539500 Training Employee E	10,000	0	10,000	574.56	.00	9,425.44	5.7%
1343260 544000 Service & Maintenan	70,000	0	70,000	55,006.23	4,967.00	10,026.77	85.7%
1343260 552500 E-911 Capital Outla	67,640	200,000	267,640	243,414.50	.00	24,225.50	90.9%
TOTAL E-911	207,640	200,000	407,640	334,276.75	6,357.72	67,005.53	83.6%
TOTAL E-911 FUND	0	0	0	129,751.53	6,357.72	-136,109.25	100.0%
TOTAL REVENUES	-207,640	-200,000	-407,640	-204,525.22	.00	-203,114.78	
TOTAL EXPENSES	207,640	200,000	407,640	334,276.75	6,357.72	67,005.53	

05/17/2016 14:41  
cange

MARTIN COUNTY  
BALANCE SHEET FOR 2016 13

P 1  
gblsht

FUND: 0013 E-911 FUND			NET CHANGE FOR PERIOD	ACCOUNT BALANCE
-----				
ASSETS				
1300000	110100	Due from Central Depository	.00	60,568.79
1300000	121510	State sales tax receivable	.00	18,665.92
1300000	121610	Cat 3 Sales tax rec	.00	8,845.81
1300000	121612	Cat 5 Sales tax rec	.00	-3.64
1300000	125100	Accounts Receivable - General	.00	.04
TOTAL ASSETS			.00	88,076.92
-----				
FUND BALANCE				
1300000	199100	ESTIMATED REVENUES	.00	407,640.00
1300000	199200	Revenues Control	.00	-204,525.22
1300000	299100	APPROPRIATIONS	.00	-407,640.00
1300000	299200	Expenditures Control	.00	334,276.75 ✓
1300000	299300	ENCUMBRANCES	.00	6,357.72
1300000	392900	FB-Unreserved-Undesignated	.00	-217,828.45
1300000	393000	BUDGETARY FB-Res/Encumbrances	.00	-6,357.72
TOTAL FUND BALANCE			.00	-88,076.92
TOTAL LIABILITIES + FUND BALANCE			.00	-88,076.92
			=====	=====

- Fund Balance

\*\* END OF REPORT - Generated by Cindy Ange \*\*



**From:** [REDACTED]  
**To:** [REDACTED]  
**Cc:** " [REDACTED] " < [REDACTED] >  
**Subject:** [REDACTED]  
**Date:** [REDACTED]

---

FYI

Philip L. Penny  
Business Development Specialist  
Mission Critical Partners, Inc.  
4801 Glenwood Ave, Suite 200  
Raleigh, North Carolina 27612

C: 919-210-5255, Primary  
O: 919-390-0321 or 888.862.7911  
F: 919-390-0333

[philippenny@mcp911.com](mailto:philippenny@mcp911.com)  
[www.mcp911.com](http://www.mcp911.com)



---

**From:** William Roberson [mailto:william.roberson@bertie.nc.gov]  
**Sent:** Tuesday, May 24, 2016 1:43 PM  
**To:** Philip Penny <PhilipPenny@MCP911.com>  
**Cc:** JW Stalls <jw.stalls@bertie.nc.gov>  
**Subject:** RE: 911 Fund Balance

Our fund balance as of 6/30/15 was \$351,845.  
However, in this year we have appropriated \$256,447.  
This would basically leave us with **\$95,398**.

I do not know about any adjustments?

William Roberson  
Finance Director  
Bertie County  
PO Box 530  
Windsor, NC 27983  
(252)794-5360  
(252)794-5327 Fax  
[William.roberson@bertie.nc.gov](mailto:William.roberson@bertie.nc.gov)

---

**From:** JW Stalls

**Sent:** Tuesday, May 17, 2016 10:52 AM

**To:** William Roberson <[william.roberson@bertie.nc.gov](mailto:william.roberson@bertie.nc.gov)>

**Subject:** Fwd: 911 Fund Balance

See below request

JW Stalls

Communications Supervisor

Bertie County Sheriff's Office

252-794-5330 office

252-794-5346 fax

252-209-9299 cell

Begin forwarded message:

**From:** Philip Penny <[PhilipPenny@MCP911.com](mailto:PhilipPenny@MCP911.com)>

**Date:** May 17, 2016 at 10:43:29 AM EDT

**To:** "'[jw.stalls@bertie.nc.gov](mailto:jw.stalls@bertie.nc.gov)'" <[jw.stalls@bertie.nc.gov](mailto:jw.stalls@bertie.nc.gov)>

**Cc:** "'[scott.sauer@bertie.nc.gov](mailto:scott.sauer@bertie.nc.gov)'" <[scott.sauer@bertie.nc.gov](mailto:scott.sauer@bertie.nc.gov)>

**Subject: 911 Fund Balance**

JW, could you send me the Bertie County current 911 Fund Balance and if you have recently received an adjustment from the 911 Board please send me that as well.

Thanks in advance!

Regards,

Philip L. Penny  
Business Development Specialist  
Mission **Critical** Partners, Inc.  
4801 Glenwood Ave, Suite 200  
Raleigh, North Carolina 27612

C: 919-210-5255, Primary  
O: 919-390-0321 or 888.862.7911  
F: 919-390-0333

[philippenny@mcp911.com](mailto:philippenny@mcp911.com)  
[www.mcp911.com](http://www.mcp911.com)



Attachment 8

Martin County Communications Center Budget

This attachment pertains to questions 11 and 26.

Communications	FY 2012-2013 ACTUAL	FY 2013-2014 ACTUAL	FY 2014-2015 ACTUAL	FY 2015-2016 REVISED BUDGET	FY 2015-2016 ACTUAL	FY 2016-2017 DEPARTMENTAL REQUEST	FY 2016-2017 MANAGER RECOMMENDED	FY 2016-2017 ADOPTED	NOTES
1143250 512100 Salaries-Regular	247,688	269,689	283,858	253,416	149,710	301,090	287,377		
1143250 512200 Salaries-Overtime	46,268	55,721	55,495	30,000	35,000	30,000	50,000		
1143250 512600 Salaries-Temporary	198	3,108	2,514						
1143250 512700 Salaries-Longevity	3,400		1,867	1,200	300	1,200	300		
1143250 518100 Social Security Expense	17,606	19,487	20,487	17,647	11,076		20,936		
1143250 518105 Medicare Portion of FICA	4,117	4,557	4,791	4,127	2,590		4,897		
1143250 518200 Retirement Contribution	20,042	21,219	25,665	20,123	12,599		24,955		
1143250 518300 Hospitalization Contrib	61,397	72,393	78,152	78,505	53,624		62,400		
1143250 518310 Hospitalization - Retiree	7,824	11,377	26,421	24,399	13,971	40,505	40,505		
1143250 518320 Cobra fees	7	7	21						
1143250 518400 401K Contributions	8,921	9,855	10,237	8,539	5,550		10,131		
1143250 518500 Unemployment		2,030							
1143250 518600 Worker's Compensation	1,240	1,646	1,318	1,129	1,248	954	954		
1143250 518700 Life Insurance	249	250	275	270	151		270		
1143250 518800 Flex Plus Fees	74	66	59	108	42		108		
1143250 519901 Contracted Services	40,594	17,588	3,116						
1143250 521200 Uniforms	652	445	1,021	750	264	750	750		
1143250 526100 Office Supplies & Materials	1,810	1,987	3,119	2,275	2,353	2,275	2,275		
1143250 526150 Supplies-Equip (\$250-\$1500)	300	395	674	22,725	1,308	22,725	22,725		
1143250 531100 Travel		619							
1143250 532100 Telephone	13,765	13,472	8,205	13,000	2,255	13,000	13,000		
1143250 532500 Postage	23	16	13	50		50	50		
1143250 533000 Utilities-Tower	1,757	1,726	4,762	5,000	1,440	5,000	5,000		
1143250 535200 Equip Maint & Repairs	22,558	26,775	33,970	44,000	26,827	44,000	44,000		
1143250 539100 Advertising	251	646	255	200		200	200		
1143250 539500 School Instruction			421						
1143250 545000 Insurance & Bonding	1,010	1,217	1,123	1,773	1,721	1,700	1,700		
1143250 549100 Dues & Subscriptions									
1143250 549900 Asst to Frfghtrs grant match	101,981								
1143250 551000 CO-Furn&Equip (>\$1500)	25,789	323,551				10,000	10,000		bulldozer work and fence at tower
Total Communications	629,521	859,846	567,837	529,236	322,029	473,449	602,533	0	

Attachment 9  
Project Funding Request Table

This attachment pertains to questions 11 and 26.

Project Components	Amount	Notes
Architectural Design and related fees	\$316,056.00	Estimate from Mission Critical Partners
Building and Site Development	\$2,983,960.00	Estimate from Mission Critical Partners
Permits	\$35,000.00	Estimate from Mission Critical Partners
Construction Contingency	\$333,501.60	Estimate from Mission Critical Partners
Consultant	\$370,800.00	Estimate from Mission Critical Partners
Administrative Telephone System	\$58,794.21	Based on quote; 5% added
911 Telephone System	\$291,639.18	Based on CenturyLink quote for backup for new Intrado VIPER® multi-nodal hardware/software and installation
Radio Console Stations	\$334,808.40	Based on quote from Motorola
Radio Connectivity from Martin to Bertie	\$80,000.00	Quote from Wireless NC
Communications Tower	\$211,083.10	Quote from Hightower Communications for 200-foot tower, appurtenances, lighting, fees, testing, installation
CAD Software / Licenses	\$79,201.78	Based on quote for backup
Logging Recorder	\$25,866.00	Based on quote from EdgeOne
Net Clock	\$12,500.00	Quote from SoundSide Group for new hardware/software and installation
Console Workstation and Chairs	\$141,484.80	Based on quote from Evans Dispatch
Office Furniture	\$17,257.88	Based on quote from FSI Office; 5% increase added
IT Network/Hardware/Structural Cabling	\$147,736.99	Based on quote from SoundSide Group, includes CAD servers, cabling
Generator	\$53,475.24	Based on quote from Forrest Generator Service for generator, ATS delivery, installation
UPS	\$60,000.00	Estimate from Mission Critical Partners for APC 40kVa UPS
Grounding	\$14,300.00	Based on quote from SoundSide Group; 5% increase added
Access Control/Security Systems/Audiovisual	\$118,235.00	Based on quote from SoundSide access control, site security cameras, and audiovisual for the new facility
Internet Connectivity (Ethernet)	\$68,216.40	Based on quote from CenturyLink; 5% increase added
<b>Total</b>	<b>\$5,753,916.58</b>	

Attachment 10  
Budgetary Quotes

This attachment pertains to question 27.



**MOTOROLA**

To: Martin County, NC  
MCC5500 x5 - Budgetary



From: Motorola, Inc  
PO Box 122  
Holly Springs, NC 27540

Phone:  
Fax:

North Carolina Sales Team

Phone: 919-321-8948  
Fax: 315-222-2155

Qty	Model #	Description	Your Price	Extended Price
-----	---------	-------------	------------	----------------

Martin Co: MCC5500:5 Position MCC5500 Dispatch Console Solution - Budgetary

1	MCC5500-M.Co-Bud	<b>MCC5500 Dispatch Console Budgetary Includes:</b>	\$279,007.00	\$279,007.00
---	------------------	---	--------------	--------------

**5 Operator Positions and Backroom Equipment**  
Provisioned for up to 6 Radio Channel Resources  
**6 Control Stations/Antenna Network for the following:**  
· Law, Fire, EMS, on VIPER and VHF  
**Backroom UPS Backup**  
**Operator Position UPS Backup**  
**1 Input/Output Module**  
**Installation and Programming**  
**Training - Admin and Operator at customer location**  
**Freight/Delivery**  
**1 Year 8x5 Warranty**

**Each MCC 5500 Operator Position Includes:**

One (1) Workstation w/19" LCD monitor  
One (1) Console Audio Box (CAB)  
Two (2) Desktop Speakers  
One (1) Gooseneck Microphone  
Two (2) Headset Jacks  
One (1) Footswitch  
Dual Channel Instant Recall Recorder

**Not Included:**

Logging Recorder  
Netclock  
Console Furniture  
Alias Database Manager

- Notes: 1. North Carolina sales tax has not been included in this quotation.  
2. Proposal Valid for 30 Days  
3. This is a BUDGETARY Proposal. This cannot be used as a firm quote.

<b>Proposal Name:</b>	Martin Co. - MCC5500 5-Position Budgetary	<b>Equipment</b>	279,007.00
<b>Payment Terms:</b>	Net 30 days	<b>Installation</b>	Included
<b>Delivery:</b>	Approx. 30 Days from receipt of PO		
<b>Proposal Date:</b>	February 11, 2015	<b>Total</b>	279,007.00

**Budgetary Assumptions:**

- 1) All existing sites or equipment locations will have sufficient space for proposed equipment.
- 2) All existing sites or equipment locations will have adequate electrical power and site grounding to support the requirements of the proposed equipment.
- 3) All furniture will be provided by the customer.
- 4) Adequate HVAC: The sites have HVAC capacity for the proposed equipment per Motorola document *Standards and Guidelines for Communications Sites* (R56).
- 5) All furniture will be provided by the customer.
- 6) Customer will be responsible for providing accessibility to all sites during the installation.
- 7) If new antenna systems are quoted, all existing towers will have adequate space and size to support the antenna network requirements.
- 8) No site improvements are proposed as part of this budgetary offering. Any site/location upgrades or modifications are the responsibility of the Customer.
- 9) If customer utilizes existing control stations then they must be analog tone remote controlled with terminations in the same room as the backroom electronics.
- 10) The backroom electronics or an adjacent room is no more than 50 feet away from the operator positions.

\$279,007 was used to calculate the per position cost, which was then multiplied by 6 to obtain an estimate.

A radio subject matter expert for MCP confirmed this was a conservative way to approach this estimate.



**From:** [REDACTED]  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** [REDACTED]  
**Date:** [REDACTED] 1:54 PM  
**Attachments:** [REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

---

Will this be sufficient?

Jason P. Steward  
Telecommunications Manager/E911 Director  
Martin County Central E911 Emergency Communications Center  
An IAED/EMD Certified Emergency Services Agency  
Martin County Governmental Center  
305 East Main Street  
Williamston, North Carolina 27892-8825  
(252) 789-4556 (DO NOT USE FOR EMERGENCIES! DIAL 911)  
[Jason.steward@martincountyncgov.com](mailto:Jason.steward@martincountyncgov.com) (email)  
[www.martincountyncgov.com/communications](http://www.martincountyncgov.com/communications) (website)

*"Don't find fault, find a remedy." –Henry Ford*

*Correspondence to and from this user may contain sensitive law enforcement, criminal justice, medical, or other personal and privileged information and is intended for the recipient only. Certain information may also be subject to the NC Public Records Law and is subject to release to third parties upon request.*

---

**From:** [REDACTED]  
**Sent:** [REDACTED] 1:00 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** [REDACTED]

Jason,

Please, see our numbers and comments, below ->

Option 1

- We did not run a propagation studies, so we are assuming coverage would be adequate.
- We did not a perform structural analysis on either tower, so we are assuming both towers can handle the additional loading.
- We looked at adding the antenna systems to both towers, labor and the necessary control stations. We estimate this to run approximately \$60,000.00

### Option 2

-

- Telco or radio loop circuits can be costly and problematic. Both from the standpoint of cut cables and central office issues.

### Option 3

-

- We did not run a path analysis or structural analysis on the towers.
- We are assuming there is a path between the towers and they will handle the additional loading.
- We estimate the microwave costs to run between \$60,000 and \$85,000 depending upon options you elect to include.  
This covers the engineering, design, equipment and labor.

We hope this gives you some idea of the costs. Please, let us know if you need further.

Thank you.

**Martin L. Chriscoe**



**MOTOROLA SOLUTIONS**

Authorized Manufacturers Representative

Wireless Communications, Inc.

C:919-980-0925

F:919-786-0892

E:mchriscoe@wirelessnc.com

CONFIDENTIALITY NOTICE: This communication and any accompanying document(s) or file(s) are confidential and privileged. They are intended for the sole use of the addressee. Any review, retransmission, dissemination or other use of, or taking of any action in reliance upon, this information by persons or entities other than the intended recipient is strictly prohibited. If you have received this communication in error, please notify me by email [mchriscoe@wirelessnc.com](mailto:mchriscoe@wirelessnc.com) or by telephone (919) 980.0925.

---

**From:** [REDACTED]  
**Sent:** [REDACTED] 1:05 PM  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** [REDACTED]  
**Importance:** [REDACTED]

Good Afternoon:

I met with our consultant for our grant today and we have one issue that needs to be addressed before we can submit the grant application (which is due June 6).

Can you review the attached pages and looks at options 1,2, and 3 for connectivity of radio infrastructure between Martin and Bertie Counties and provide a quote for the best (in your opinion option). I understand this is short notice but a ballpark, non-binding estimate will be satisfactory.

Thank you,

Jason P. Steward  
Telecommunications Manager/E911 Director  
Martin County Central E911 Emergency Communications Center  
An IAED/EMD Certified Emergency Services Agency  
Martin County Governmental Center  
305 East Main Street  
Williamston, North Carolina 27892-8825  
(252) 789-4556 (DO NOT USE FOR EMERGENCIES! DIAL 911)  
[Jason.steward@martincountyncgov.com](mailto:Jason.steward@martincountyncgov.com) (email)  
[www.martincountyncgov.com/communications](http://www.martincountyncgov.com/communications) (website)

*"Don't find fault, find a remedy." –Henry Ford*

*Correspondence to and from this user may contain sensitive law enforcement, criminal justice, medical, or other personal and privileged information and is intended for the recipient only. Certain information may also be subject to the NC Public Records Law and is subject to release to third parties upon request.*

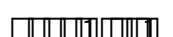
---

**From:** Mission Critical Partners, Inc.  
**Sent:** Monday, November 1, 2010 1:44 PM  
**To:** Louisa Lake  
**Subject:** MCP911  
**Importance:** High

Louisa R. Lake, ENP  
Public Safety Consultant  
Mission Critical Partners, Inc.  
690 Gray's Woods Blvd.  
Port Matilda, PA 16870

O: 888.8.MCP.911 or 717-836-1049  
M: 717.736.9133  
[louisalake@mcp911.com](mailto:louisalake@mcp911.com)  
[www.mcp911.com](http://www.mcp911.com)





**Customer:** Sampson County Communications  
**Quote #:**  
**Project Name:** ShoreTel CPEaaS & 8x5 maintenance  
**Created On:** 3/25/2015  
**Quote Expires On:** 5/24/2015  
**Account Manager:** Donna Pair  
**Sales Engineer:** Rebecca Belliveau  
**Customer Notes** see notes tab below



Catalog Number	Description	Unit Price	Qty	Total Price
<b>LOCATION: Sampson Co E911</b>				
<b>Materials</b>				
10481	SBE 100 bundle, 20 Users with server. Includes UC Server 20, SG90, tray, 20 ext mailbox lic, 1 ext only lic, 1 Communicator Operator access lic, 20 Communicator Personal access lic, 8 SIP trunk lic, 2 site lic, 5 Appl Dialer 5 Web Dialer lic	Included	1	Included
10223	Rack Mount Tray Kit for SG switch 1U half width, holds two 1U half width voice switches	Included	1	Included
10260	Voice Switch SG-90 - 1U half width, Max Capacities: 90 IP phones, 4 Analog exts, 8 LS trunks, 0 Universal ports. Requires one Tray (SKU 10223) for every two units. Made in USA.	Included	1	Included
10321	Voice Switch SG-24A - 1U full width, Max Capacities: 24 Analog extensions. No IP Phone or trunk support. (requires ShoreTel 8 or later). Made in USA.	Included	1	Included
40005	Personal Access License	Included	10	Included
10496	IP Phone IP 480 - Requires ShoreTel 14 or later	Included	30	Included
29152	ShoreTel 14.2 Software (General Release) Enterprise and SBE 100 Customers	Included	1	Included
30035	Extension Mailbox License	Included	10	Included
30039	Extension-only License (Requires ShoreTel 5.2 or higher)	Included	15	Included
30040	Mailbox-only License (Requires ShoreTel 5.2 or higher)	Included	3	Included
60047	Analog Harmonica Telco 25PR (FF) Cable Kit for SG 30 / SG 50 / SG 90 and SG 220T1A switches	Included	4	Included
55053-703	STANDARD 19IN RACK BLK	Included	1	Included
AT1514EV-BU	CAT 5E VIP 14FT BLU	Included	60	Included
AT55B-PNL-24	UNIVERSAL CAT 5E 24 PORT PATCH PANEL	Included	2	Included

CPEaaS Rate Quote

M1-50	CONNECTINGBLOCK 50PR	Included	4	Included
S89B	MOUNTING BRACKET	Included	4	Included
WS-C3560X-48PF-E	Catalyst 3560X 48 Port Full PoE IP Services	Included	1	Included
CAB-3KX-AC	AC Power Cord for Catalyst 3K-X (North America)	Included	1	Included
CAB-CONSOLE-RJ45	Console Cable 6ft with RJ45 and DB9F	Included	1	Included
S356XVK9T-12255SE	CAT 3560X IOS UNIVERSAL WITH WEB BASED DEV MGR	Included	1	Included
C3KX-NM-BLANK	Catalyst 3K-X Network Module Blank	Included	1	Included
C3KX-PS-BLANK	Catalyst 3K-X Power Supply Blank	Included	1	Included
C3KX-PWR-1100WAC	Catalyst 3K-X 1100W AC Power Supply	Included	1	Included
<b>Support Services</b>				
94132	Partner Support (3 Year, Full Coverage)	Included	6931	Included
CenturyLink Support	Onsite Support	Included	1	Included
CenturyLink Support	Onsite Support	Included	1	Included
<b>Implementation</b>				
QINTR-SHORETEL	Integration	Included	1	Included
<b>Shipping and Handling</b>				
Shipping & Handling	Shipping & Handling	Included	1	Included

**Total MRC                      \$1,431.25**  
**Service Term 36 Months**

Note: Changes to configuration may result in pricing changes. This quote also excludes sales tax, which will be added to the invoice. Any expedite fees incurred after quote acceptance will be added to the invoice.

By signing below you agree that CenturyLink can submit this order for the items in this Quote and that the items ordered hereunder are subject to the CPEaaS terms and conditions incorporated in the agreement for CenturyLink Select Advantage Products and Services signed by Sampson County Communications on Contract Number: .

Customer Representative: \_\_\_\_\_

Customer Signature: \_\_\_\_\_

Job Title: \_\_\_\_\_

Date: \_\_\_\_\_

CenturyLink Representative: \_\_\_\_\_

CenturyLink Signature: \_\_\_\_\_

Job Title: \_\_\_\_\_

Date: \_\_\_\_\_



JCW Pricing Tool 6.01

Quote Number#

Account Manager: Donna Pair

<b>Customer Legal Name:</b> Sampson County Communications							
<b>Customer Billing Name:</b>							
<b>Customer Address:</b> 107 Underwood St , Clinton, NC 28328							
<b>Date Prepared:</b> March 25, 2015							
<b>Quote Expires:</b> May 24, 2015							
<b>Quote Number:</b>							
<b>QTY</b>	<b>Item</b>	<b>Total Non-Recurring Price</b>	<b>Annual Price - Year 1</b>	<b>Annual Price - Year 2+</b>			
	CPE - (Includes Shipping and Misc costs)	\$ 402.74					
	Labor	\$ 93.75					
	On-Site Tech		\$ -	\$ -			
	Vendor Support	\$ -	\$ -	\$ -			
<b>Total Prices</b>		<b>\$ 496.49</b>	<b>\$ -</b>	<b>\$ -</b>			

Prices shown on this page represent recurring and nonrecurring charges for items as described. These prices do not include recurring or nonrecurring charges for taxes, duties, tariffs, or telecommunication services.



**From:** [XXXXXXXXXX@d](#)  
**To:** [XXXXXXXXXX](#)  
**Cc:** [XXXXXXXXXX](#)  
**Subject:** [XXXXXXXXXXXXXXXXXXXX](#)  
**Date:** [XXXXXX d XXXX XXXX XXXX XXXX 15:10 XXXX XXXX](#)  
**Attachments:** [XXXXXXXXXX01.XXX](#)  
[XXXXXXXXXX 1 XXXXXXXXXXXXXXX \\$15 XXXX](#)  
[XXXXXXXXXX 1 XXXX XXXX \\$15 XXXX](#)

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Brent:

This is the quote from Centurylink for the admin phone system. It reads "Sampson County" because they say ours will be nearly identical. They say they can change the wording but given the deadline of today for all quotes that I had set they wanted to get me what we needed. The figures will be identical.

Thanks

---

**From:** Pair, Donna L [mailto:Donna.L.Pair@centurylink.com]  
**Sent:** Thursday, March 26, 2015 22:18  
**To:** 'Jason Steward'  
**Subject:** FW: Phone Quote

Jason

Use this quote as a "budgetary" until we verify your phone count and data drops. I would add about \$4000 for wiring just to cover us again until verified.  
Let me know when you have time to work on the admin system.

Thank you so much!

**Donna Pair**  
*CenturyLink Technology Solutions*  
*SR Global Relationship Manager*  
*252-212-3675 Voice | 252-212-3626 Fax*  
*Toll Free Number 1-800-546-3911*

**1-877-433-1989 customer service & 911 repair**  
**1- 866-590-5420 Billing questions | 1- 800-603-8044 Advanced Network Service**

---

**From:** [XXXXXXXXXXXXXXXXXXXX](#)  
**Sent:** [XXXXXX d XXXX XXXX XXXX XXXX 15:15 XXXX XXXX](#)  
**To:** [XXXXXXXXXXXXXXXXXXXX](#)  
**Cc:** [XXXXXXXXXXXXXXXXXXXX XXXX XXXX](#)  
**Subject:** [XXXXXXXXXXXXXXXXXXXX](#)

All,

Please see quote for your admin phone system and UPS.  
Give me a call to discuss and we are available to come on site to demo.

Thank you in advance!

**Donna Pair**

*CenturyLink Technology Solutions  
SR Global Relationship Manager  
252-212-3675 Voice | 252-212-3626 Fax  
Toll Free Number 1-800-546-3911*

**1-877-433-1989 customer service & 911 repair**  
**1- 866-590-5420 Billing questions | 1- 800-603-8044 Advanced Network Service**

---

**From:** Donna Pair <ddpair@centurylink.com>  
**Sent:** Monday, March 23, 2015 12:44 PM  
**To:** Deborah Daughtry  
**Cc:** Donna Pair  
**Subject:** Phone System Quote

We still haven't received the quote for phone system and It is needed to finish our budgets.

Thanks.

Debbie

SC EMS

---

**From:** Donna Pair <ddpair@centurylink.com>  
**Sent:** Monday, March 23, 2015 12:44 PM  
**To:** Deborah Daughtry  
**Cc:** Donna Pair  
**Subject:** Phone System Quote

Engineering told me this morning they were finishing up.

Donna Pair

On Mar 25, 2015 12:46 PM, Deborah Daughtry <[ddaughtry@sampsonnc.com](mailto:ddaughtry@sampsonnc.com)> wrote:  
I know you stated we would receive quote for new phone system today. I still have not seen quote yet. Can you please remind team that I need it today.

Thanks.

Debbie  
SC EMS

---

**From:** [REDACTED]  
**Sent:** [REDACTED] 15:40 [REDACTED]  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** [REDACTED]

Roberta

My engineering team is working on it. I spoke with Debbie last week. Their plan is to have it over by Wednesday. There were some questions they wanted to validate.

Thank you

## Donna Pair

*CenturyLink Technology Solutions  
SR Global Relationship Manager  
252-212-3675 Voice | 252-212-3626 Fax  
Toll Free Number 1-800-546-3911*

**1-877-433-1989 customer service & 911 repair**  
**1- 866-590-5420 Billing questions | 1- 800-603-8044 Advanced Network Service**

---

**From:** [REDACTED]  
**Sent:** [REDACTED] 15:45 [REDACTED]  
**To:** [REDACTED]  
**Cc:** [REDACTED]  
**Subject:** [REDACTED]

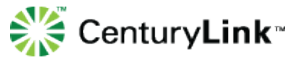
Donna,

Can you please advise the status of the phone quote for the EM office. This is the last week to work on budget.

Thanks



*Roberta C. Parker, AAS BA, EMD, EPD, EFD, EMD-2, EPD-2*



Customer Legal Name:	E911 Martin County E911 Center
Customer Billing Name:	E911 Martin County E911 Center
Site Address 1:	PO BOX 668
Site Address 2:	
City:	WILLIAMSTON
State:	NC
Zip:	27892-0668
Contact Name:	
Phone Number:	
E-Mail:	
Account Manager / Sales ID:	Robert Robinson
Account Manager E-mail:	robert.l.robinson1@centurylink.com
Sales Engineer Name:	<a href="#">David Weymouth</a>
Sales Engineer E-Mail:	<a href="mailto:david.m.weymouth@centurylink.com">david.m.weymouth@centurylink.com</a>
Quote Number:	16-005728



JCW Pricing Tool 6.01

Quote Number# 16-005728

Account Manager: Robert Robinson

Centurion Maintenance

<b>Customer Legal Name:</b> E911 Martin County E911 Center <b>Customer Billing Name:</b> E911 Martin County E911 Center <b>Customer Address:</b> PO BOX 668 , WILLIAMSTON, NC 27892-0668 <b>Date Prepared:</b> May 11, 2016 <b>Quote Expires:</b> July 10, 2016 <b>Quote Number:</b> 16-005728		<b>Coverage:</b> <b>Contract Term:</b>					
QTY	Item	Total Non-Recurring Price	Annual Price - Year 1	Annual Price - Year 2+	Total Annual Price - Y1	Total Annual Price - Y2+	Total Term Price
	CPE - (Includes Shipping and Misc costs)	\$ 88,413.06			\$ -	\$ -	\$ -
	Labor	\$ 8,240.00					
	On-Site Tech		\$ -	\$ -			
	Vendor Support	\$ 560.00	\$ -	\$ -			
<b>Total Prices</b>		<b>\$ 97,213.06</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Prices shown on this page represent recurring and nonrecurring charges for items as described. These prices do not include recurring or nonrecurring charges for taxes, duties, tariffs, or telecommunication services.

The quote of \$97,213.06 was for two positions at the backup center. Based on this quote, an estimate for six positions is \$291,639.18.



## CenturyLink

Customer Legal Name: E911 Martin County E911 Center  
Customer Billing Name: E911 Martin County E911 Center  
PO BOX 668  
WILLIAMSTON  
NC , 27892-0668  
Quote-Build #: 16-005728-NIBS

Valid Until July 10, 2016

Description of Work  
to be Performed:


Equipment pricing shown is based upon direct sale accompanied by new Centurion Maintenance contract on same.

See Vendor Support Tab for  
Additional Pricing

Part Number	Description	Quantity	Unit Price	Extended Price
-	-	-	\$ -	\$ -
-	Martin County Backup	-	\$ -	\$ -
-	-	-	\$ -	\$ -
-	VIPER	-	\$ -	\$ -
912800	VIPER Gateway Shelf	3	\$ 818.40	\$ 2,455.20
912801	CAMA Interface Module (CIM)	2	\$ 2,223.73	\$ 4,447.46
912813	48V Power Supply and Shelf - VIPER System	2	\$ 1,326.67	\$ 2,653.34
912814	Admin Interface Module (AIM)	1	\$ 1,157.33	\$ 1,157.33
P10008	License to Connect Non-Intrado Recording Device	1	\$ 1,649.20	\$ 1,649.20
912760/2	V-VIPER Core Equipment Two Position Bundle	1	\$ 29,842.67	\$ 29,842.67
912750	V-VIPER Cabinet	1	\$ 2,666.67	\$ 2,666.67
C10036	Power Cord Cable with A/C twist lock connector	2	\$ 200.00	\$ 400.00
912716/24	Cisco C2960X-24TS-L 24 port switch (without stacking module)	2	\$ 2,933.33	\$ 5,866.66
912716/S	Cisco Stacking module for C2960-X	2	\$ 1,266.67	\$ 2,533.34
-	Peripheral Hardware	-	\$ -	\$ -
914514	Color Laser Printer	1	\$ 1,417.05	\$ 1,417.05
-	Staging	-	\$ -	\$ -
950852	Front Room Equipment Staging - Per Position	2	\$ 333.33	\$ 666.66
950853	Back Room Equipment Staging - Per Cabinet	1	\$ 2,333.33	\$ 2,333.33
-	-	-	\$ -	\$ -
-	-	-	\$ -	\$ -
-	-	-	\$ -	\$ -
-	-	-	\$ -	\$ -
-	-	-	\$ -	\$ -
-	Installation	-	\$ -	\$ -
950104	Intrado Professional Services (per Day)	5	\$ 2,000.00	\$ 10,000.00
960575	Living Expense per Day per Person	7	\$ 266.67	\$ 1,866.69
960580	Travel Fee per Person	1	\$ 1,666.67	\$ 1,666.67
-	CCS Training	-	\$ -	\$ -
P10087	CCS Training	1	\$ 2,000.00	\$ 2,000.00
960575	Living Expense per Day per Person	3	\$ 266.67	\$ 800.01
960580	Travel Fee per Person	1	\$ 1,666.67	\$ 1,666.67
-	Project Management Services	-	\$ -	\$ -
950510	Project Management Services	1	\$ 1,611.11	\$ 1,611.11
-	Maintenance Services	-	\$ -	\$ -
-	-	-	\$ -	\$ -
Model#	-	-	\$ -	\$ -
Vsupport	Software Sub Service - 1 Year/Position - Back Up Position	-	\$ -	\$ -
Vsupport	Soft Protect and Remote Tech Support - 1 Year/Pos - Back Up Pos	-	\$ -	\$ -
-	Optional Items and Services	-	\$ -	\$ -
-	-	-	\$ -	\$ -
-	-	-	\$ -	\$ -
-	-	-	\$ -	\$ -
-	-	-	\$ -	\$ -
-	-	-	\$ -	\$ -
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-	-	-	\$ -	\$ -
-	-	-	\$ -	\$ -
-	-	-	\$ -	\$ -
-	-	-	\$ -	\$ -
-	Misc Parts & Cables	-	\$ -	\$ -
-	-	-	\$ -	\$ -
TBD	Misc Cables and Parts	1	\$ 1,333.33	\$ 1,333.33
997-7039-00	22 in PXL2230MW led optical Touch	2	\$ 306.67	\$ 613.34
-	-	-	\$ -	\$ -
-	-	-	\$ -	\$ -
-	-	-	\$ -	\$ -
-	Netclock	-	\$ -	\$ -
GP951-94	GPS Command Center Package-Single Network	1	\$ 7,500.00	\$ 7,500.00

Parts .....	\$ 87,146.73
Miscellaneous .....	\$ -
Shipping .....	\$ 1,266.33
<b>Parts Subtotal.....</b>	<b>\$ 88,413.06</b>
Labor.....	\$ 8,240.00
Vendor Support (See Vsupport Tab for Details).....	\$ 560.00
<b>TOTAL PRICE .....</b>	<b>\$ 97,213.06</b>

All Products listed on this Quote are governed by the Standard Terms and Conditions for Communications Services and the Equipment Sales Product Annex, both posted to [http://about.centurylink.com/legal/rates\\_conditions.html](http://about.centurylink.com/legal/rates_conditions.html)

-	-	-	NRR	-	\$	-	\$	-	\$	-
---	---	---	-----	---	----	---	----	---	----	---



## Price Sheet Vendor Support

Customer: E911 Martin County E911 Center

PO BOX 668

WILLIAMSTON

NC

27892-0668

Quote-Build#: 16-005728-NIBS

Pricing is Valid Until:

July 10, 2016

Description of Work  
to be Performed:

Equipment pricing shown is based upon direct sale accompanied by new Centurion Maintenance contract on same.

Part Number	Description	Quantity	Type	(Only if MRR)		Sale Price	
				Term Years	MRR	Unit Price	Extended Price
950999/SUB1-BU	Software Sub Service - 1 Year/Position - Back Up Position	2	NRR	-	\$	200.00	\$ 400.00
950999/PRO1-BU	Soft Protect and Remote Tech Support - 1 Year/Pos - Back Up Pos	2	NRR	-	\$	80.00	\$ 160.00
-	-	-	NRR	-	\$	-	\$ -
-	-	-	NRR	-	\$	-	\$ -
-	-	-	NRR	-	\$	-	\$ -
-	-	-	NRR	-	\$	-	\$ -
-	-	-	NRR	-	\$	-	\$ -
-	-	-	NRR	-	\$	-	\$ -
-	-	-	NRR	-	\$	-	\$ -
-	-	-	NRR	-	\$	-	\$ -

TOTAL Annual MRR ..... \$ -  
TOTAL Term MRR ..... \$ -  
TOTAL PRICE NRR ..... \$ 560.00

All Services listed on this Quote are governed by the Standard Terms and Conditions for Communications Services and the CenturyLink® Centurion Maintenance Service Annex, both posted to [http://about.centurylink.com/legal/rates\\_conditions.html](http://about.centurylink.com/legal/rates_conditions.html).

Customer Notes / Project Description

Notes





CenturyLink

Customer Legal Name: E911 Martin County E911 Center  
Customer Billing Name: E911 Martin County E911 Center  
305 E. Main Street  
WILLIAMSTON  
NC , 27892-0668  
Quote-Build #: 15-002838-NIBS

Valid Until May 26, 2015

Description of Work  
to be Performed:

Equipment pricing shown is based upon direct sale accompanied by new Centurion Maintenance contract on same.

See Vendor Support Tab for  
Additional Pricing

Part Number	Description	Quantity		
-	System Specifications	-		
PS-NR-ANALOG-24CH	Analogue board package for up to 24 channels	1		
PS-INFRM-ESNT-SITE	Inform Essential Software Package including one NICE Recording Core	1		
PS-INFRM-ESNT-1CH	One (1) Audio Recording license	11		
-	-	-		
-	Anciliaries and Hardware Options	-		
NA2118	4U Server Windows Server 2008, 2x 1TB SATA HostRAID 12x Intel	1		
PS-INFRM-ESNT-VER-1CC	NICE Inform Essential Verify concurrent user license	4		
PS-NR-CTC	Contact closure board for up to 96 record channels	1		
PS-INFRM-ESNT-ANIALI-1CH	ANI-ALI Annotator license for 1 channel	4		
PS-INFRM-ESLITEUPG-5-7	Nice Inform Essential Software Upgrade to Version 7 (Existing	1		
-	Professional Services	-		
Installation	Installation, Training	1		
1YRWAR	Extended One Year Warranty	1		
shipping	Shipping	1		
-	-	-		
VSupport	Year 2 Maintenance (24 x 7)	-		
VSupport	Year 2 Maintenance (24 x 7)	-		
VSupport	Year 2 Maintenance (24 x 7)	-		
VSupport	Year 2 Maintenance (24 x 7)	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Parts .....	\$	24,158.51
Miscellaneous .....	\$	-
Shipping .....	\$	150.00
Parts Subtotal.....	\$	24,308.51
Labor.....	\$	-
Vendor Support (See Vsupport Tab for Details).....	\$	11,692.31
TOTAL PRICE .....	\$	36,000.82

All Products listed on this Quote are governed by the Standard Terms and Conditions for Communications Services and the Equipment Sales Product Annex, both posted to [http://about.centurylink.com/legal/rates\\_conditions.html](http://about.centurylink.com/legal/rates_conditions.html)

Hightower Communications Inc.

Joel D. Hightower  
PO Box 336  
LaGrange, NC 28551  
(252) 566-9835

# Proposal

DATE	QUOTE #
5/12/2016	3910

NAME / ADDRESS
Martin County Jason Stewart PO Box 668 / 305 E. Main Street Williamston, NC 27892

		P.O. NO.	PROJECT
DESCRIPTION	QTY	TOTAL	
Site Name: (911) 200' Self Supporting Communications Tower Location: Williamston, NC			
Qty (1) 200' Self Supporting Tower		42,000.00T	
Appurtenances to Mount (10) Antennas, (1) microwave Dish and (1) Ice Bridge		6,800.00T	
Freight		3,075.30T	
Engineering: Soil Testing, FAA FCC submittal, Survey, I-A, NEPA, Phase-I ESA, CD's, Permitting		16,000.00	
Tower Foundations and Grounding for approximately 50 x 50 compound		48,997.00	
Labor to erect tower including crane cost		17,000.00	
Labor to Install all lines and Antennas		8,500.00	
Qty (1) Vanguard LED lighting system		8,136.00T	
All Line and Antenna materials for total site excluding a microwave dish: Qty (4) DB-224 antennas, Qty (6) DB-809 antennas with feed lines and all attachment hardware .		50,608.00T	
General Conditions		2,500.00	
All of these numbers are budgetary and will be revisited once Soil Test have been done, actual foundations are designed, Cd's have been submitted and a true scope of work has been provided.			
Sales Tax		7,466.80	
<b>TOTAL</b>		\$211,083.10	

**The SoundSide Group, Inc.**

Phone: (252) 793-9226

Fax: (252) 793-9253

125 West Water Street

Plymouth, NC 27962

**Quote No. TP14380****Date** 5/24/2016**Revised** 5/24/2016

Prepared for: Martin/Bertie 911  
305 East Main Street  
Williamston, NC 27892

Prepared by: Laura Reid  
Email: quotes@soundsidegroup.com

Qty	Description	Price	Total
1.00	Site Camera/Surveillance System including fish eye multiview cameras, camera server, cabling	\$	80,000.00
1.00	Conference Room Audio/Video System including flat panel displays, interactive projector, audio conferencing system, high end audio system	\$	30,000.00

	SubTotal:	\$	110,000.00
	Freight	\$	500.00
7.00%	Sales Tax:	\$	7,735.00

Prices are firm until 6/13/2016

Terms: Net 30 days

**TOTAL \$ 118,235.00****Accepted by:** \_\_\_\_\_**Date:** \_\_\_\_\_**Disclaimer**

PLEASE DO NOT PAY FROM QUOTE - INVOICES WILL BE MAILED SEPARATELY. This sales quote is valid for 20 days, however be aware that equipment pricing is subject to change based on manufacturer change-outs or discontinuation of product lines. If labor estimates are not specified on the quote, this means that they are "To Be Determined" (TBD) and will be billed separately

The SoundSide Group, Inc. Thanks you for your business!

**The SoundSide Group, Inc.**

Phone: (252)793-9226  
Fax: (252)793-9253  
125 West Water Street  
Plymouth, NC 27962

**Quote # 14128**

Date: 04/05/2016

Prepared for: Jason Steward  
Martin County 911  
305 East Main Street  
PO Box 668  
Williamston, NC 27892 U.S.A.

Prepared by: Laura D. Reid  
Email: quotes@soundsidegroup.com

**Ldr - Martin Co 911 - Martin County Secondary Backup Option**

LN	Qty	Description	UOM	Price	Total
<b>WORKSTATIONS</b>					
1	2	Dell Precision 3420, Xeon E3-1225 4C 3.3 GHz, Win 7 Pro/Win 8.1 Pro, 8GB RAM, 500GB HDD, 8X DVD RW, 3 YR Pro Support w/ NBD Onsite	EA	\$999.00	\$1,998.00
2	2	Crucial BX200 240GB SATA 2.5" 7mm (with 9.5mm adapter) Internal SSD	EA	\$80.00	\$160.00
3	2	Corsair SSD Mounting Bracket Kit 2.5" to 3.5" drive bay	EA	\$10.00	\$20.00
4	4	Dell E2416H - LED monitor - 24" - 1920 x 1080 Full HD - TN - 250 cd/m2 - 1000:1 - 5 ms - VGA, DisplayPort	EA	\$185.00	\$740.00
<b>NETWORK HARDWARE</b>					
5	1	Cisco Catalyst 2960XR-24PS-I - Switch - L3 - managed - 24 x 10/100/1000 (PoE+) + 4 x Gigabit SFP - desktop, rack-mountable - PoE+	EA	\$3,958.00	\$3,958.00
6		12 Mos SNT-SMARTnet 8x5xNBD HW warranty & SW support with replacement of defective part by 8x5xNBD-parts only free			\$401.25
7	1	Cisco Catalyst 2960CX-8TC-L - Switch - managed - 8 x 10/100/1000 + 2 x combo SFP+ - desktop, rack-mountable, DIN rail mountable, wall-mountable	EA	\$737.00	\$737.00
8		12 Mos SNT-SMARTnet 8x5xNBD HW warranty & SW support with replacement of defective part by 8x5xNBD-parts only free			\$86.25
9	2	Cisco - SFP (mini-GBIC) transceiver module - 1000Base-SX - LC/PC multi-mode - plug-in module - up to 1800 ft	EA	\$389.00	\$778.00
10	2	Ubiquiti 5470-5950MHz Point-to-Point 1Gbps Radio	EA	\$1,208.00	\$2,416.00
<b>BACKUP STORAGE</b>					
11	1	Synology DiskStation 5-Bay (Diskless) Network Attached Storage (NAS) 3yr limited warranty	EA	\$902.00	\$902.00
12	5	Seagate internal 3TB 7200RPM 128MB Cache SATA/6Gb/s NO ENCRYPTION 5 yr warranty	EA	\$229.00	\$1,145.00
<b>CAD SERVER</b>					
13	1	Dell PE R630 2 x E5-2623 v3 3.0GHz 4C, 8 x 600GB HDD 15K, RAID10, 4 x 32GB RAM, DVD+/-RW 2 x 8GB SD Card ESXi 5.5 3 yr Pro Support	EA	\$12,000.00	\$12,000.00
<b>UPS</b>					
14	5	APC Smart-UPS 2200VA LCD 120V	EA	\$1,169.00	\$5,845.00
<b>SOFTWARE</b>					
15	1	Neverfail - Engine Tertiary Add-On	EA	\$2,600.00	\$2,600.00

Quote # 14128

Date: 04/05/2016

LN	Qty	Description	UOM	Price	Total
16	1	Neverfail - Phone Installation - 1 Server Pair & 1 Server PairTertiary Implementation Services Includes:**Testing, Knowledge Transfer, & Documentation	EA	\$1,755.00	\$1,755.00
17	1	Microsoft Windows Server Standard 2012 R2 English Local Government OPEN 1 License No Level 2 PROC	EA	\$789.70	\$789.70

**Technical Labor**

18	1.00	Technical Labor	HR	\$6,000.00	\$6,000.00
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**CABLING**

19	6	CAT6 MOD JACK,1PORT,UTP/IVORY	EA	\$11.00	\$66.00
20	2	4-PORT FLUSH MOUNT UNLOADED SGL GANG M-SERIES IVORY	EA	\$4.00	\$8.00
21	2	Raceway Junction Box SGL Gang 5.02" LX3.27"WX.75"H Low Volt Adhes Elec Ivory	EA	\$9.00	\$18.00
22	2	RACEWAY NONMETALLIC SINGLE 8' L X 1.01 "WX.60"H PAN-WAY LD5 ADHES ELECI-IVORY-ROHS	EA	\$19.00	\$38.00
23	1	23-4P UTP-CMR SOL BC CAT6 FR-PVC JACKET REEL-IN-BOX-BLUE	FT	\$193.00	\$193.00
24	1	CPI RACK WALL MOUNT SWING GATE 38.5"H X 19"W X 25"D ALUMINUM BLACK	EA	\$367.00	\$367.00
25	1	24-PORT PATCH PANEL CAT6 IP5 110-MOD BLACK, 1U	EA	\$174.00	\$174.00
26	1	SHELF STANDARD SOLID 19"W X 15"D ALUM SINGLE SIDED 50LB CAP/BLACK	EA	\$93.00	\$93.00
27	1	Power Strip, 1U, Basic, 20A, 120V, Horizontal, (8) 5-20R, Thermal Breaker, No Surge, 5-20P	EA	\$100.00	\$100.00
28	500	6-F OM3 TB RISER FREEDM ONE 2.8/1.0 DB/KM 1500/500 MHZ*KM PRET 300 CLEARCURVE	EA	\$1.24	\$620.00
29	1	6/12 FIBER SINGLE PANEL WALL-MOUNT HOUSING 1P	EA	\$66.00	\$66.00
30	1	CORNING-C 12/48 FIBER RACK MOUNT ENCLOSURE 19" 1U EMPTY ADD 2 CCH PNLS CCH	EA	\$254.00	\$254.00
31	12	CORNING-C LC CONNECTOR 50/125 10G CER PRE-POLISHED STUB, CTS COMPTBL SENIOR UNICAM	EA	\$24.00	\$288.00
32		Miscellaneous Materials: Plywood, Mounting Hardware, Cable Ties, Conduit, etc.			\$300.00
33	1.00	Cabling Labor	HR	\$1,000.00	\$1,000.00
34		Trenching			\$1,000.00
35	1.00	Underground Locating Services	HR	\$1,000.00	\$1,000.00

Prices are firm until 4/15/2016

Terms: Net 30 Days

Labor costs were doubled.

As this quote was for 2 workstations, the quote was modified to reflect 6 workstations, with the trenching and locating services as a one-time cost.

**Sub-Total: \$47,916.20**

Freight: \$600.00

Sales Tax: \$3,396.13

**Total: \$51,912.33****\$147,736.99**

**Quote # 14128**

Date: 03/20/2016

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**Accepted by:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Disclaimer**

PLEASE DO NOT PAY FROM QUOTE - INVOICES WILL BE MAILED SEPARATELY. This sales quote is valid for 20 days, however be aware that equipment pricing is subject to change based on manufacturer change-outs or discontinuation of product lines. If labor estimates are not specified on the quote, this means that they are "To Be Determined" (TBD) and will be billed separately.

**E911 Martin County E911 Center**  
**Proposal For Metro Ethernet - Classic Enhanced Services**  
Proposal Date: 2/26/2015  
Expire Quote Date: 4/27/2015  
Customer Copy - Quote #: 15-006207



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**Customer Contact Information:**

**Company Name:** E911 Martin County E911 Center  
**Billing Address:** PO BOX 668  
**Billing City, State, Zip:** WILLIAMSTON NC 27892-0668  
**BAN ID:** New BAN ID  
**Customer Contact Name:** Jason Steward  
**Customer Contact Phone:**  
**Customer Contact E-mail:**

---

**CenturyLink Contact Information:**

**Sales Person:** Donna Pair [1074261]  
**Email:** donna.l.pair@centurylink.com  
**Sales Contact Number:** 252-212-3609  
**Dealer Code:** 1074261

**Engineer:** Alison Rhodes  
**Email:** alison.rhodes@centurylink.com  
**Engineer Contact Number:** 252-212-3654

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**Service Description:** The following Term options reflect the total budgetary Monthly Recurring Revenue (MRR) and Non-Recurring Revenue (NRR) for all sites included in the quote. See subsequent pages for individual budgetary charges per site.

**Type of Service:** Metro Ethernet - Classic Enhanced Services  
**Term Agreement:** 60 month  
**Total # of Sites included in this quote:** 2

Site	Listing Name	MRR	NRR
A	E911 Martin County E911 Center	\$541.00	\$24.00
B	E911 Martin County E911 Center	\$541.00	\$24.00
	<b>TOTAL</b>	<b>\$1082.00</b>	<b>\$48.00</b>

**E911 Martin County E911 Center**  
**Proposal For Metro Ethernet - Classic Enhanced Services**  
Proposal Date: 2/26/2015  
Expire Quote Date: 4/27/2015  
Customer Copy - Quote #: 15-006207



**Customer Service Location:**

PON #: 15006207A  
Primary Location Name: E911 Martin County E911 Center  
Address: 305 East Main Street  
City, State, Zip: WILLIAMSTON, NC, 27892-0668  
NPA-NXX: 252-789  
On Site Contact Name: Jason Steward  
Work TN:

**Telco Central Office Information:**

Telco A: Carolina Telephone and Telegraph Company LLC  
Serving Central Office CLLI: WMTNNCXA03W  
Serving Central Office Address: 108 S SMITHWICK ST  
Serving Central Office City, State, Zip: WILLIAMSTON, NC 27892

**Service Description:**

Type of Service: Metro Ethernet - Classic Enhanced Services, 60 month term

Site	Qty	Price Plan	Feature Code	Item	MRR	NRR
A	1			Service Order Charge		24.00
A	1	PPE5CEZ2B	E160	5Mbps Enhanced Ethernet - Classic	\$466.00	
A	3	PPETHGLD	EQHGLD	QoS Gold - per Mbps	\$75.00	
				<b>TOTAL</b>	<b>\$541.00</b>	<b>\$24.00</b>

**Additional Terms and Conditions:**

- At [http://about.centurylink.com/legal/rates\\_conditions.html](http://about.centurylink.com/legal/rates_conditions.html), the following information will direct you to the applicable terms and conditions for the Services:  
Entity: Carolina Telephone and Telegraph Company LLC  
Service: Metro Ethernet - Classic Enhanced Services
- The prices quoted apply only to the sites included in the Quote and will not apply if Customer adds, changes or moves site locations. Rates, charges and discounts for Service elements not identified appear in the applicable terms and conditions identified above. Prices do not include taxes or applicable surcharges that CenturyLink may bill Customer. Unless this Quote is incorporated into a signed agreement, it is non-binding. Except for charges described in this Quote, the applicable CenturyLink terms and conditions identified above will control over any inconsistencies or conflicts between the Quote and the terms and conditions.



**E911 Martin County E911 Center**  
**Proposal For Metro Ethernet - Classic Enhanced Services**  
Proposal Date: 2/26/2015  
Expire Quote Date: 4/27/2015  
Customer Copy - Quote #: 15-006207



**Customer Service Location:**

PON #: 15006207B  
Primary Location Name: E911 Martin County E911 Center  
Address: 1484 Prison Camp Road  
City, State, Zip: WILLIAMSTON, NC, 27892-0668  
NPA-NXX: 252-792  
On Site Contact Name: Jason Steward  
Work TN:

**Telco Central Office Information:**

Telco B: Carolina Telephone and Telegraph Company LLC  
Serving Central Office CLLI: WMTNNCXA03W  
Serving Central Office Address: 108 S SMITHWICK ST  
Serving Central Office City, State, Zip: WILLIAMSTON, NC 27892

**Service Description:**

Type of Service: Metro Ethernet - Classic Enhanced Services, 60 month term

Site	Qty	Price Plan	Feature Code	Item	MRR	NRR
B	1			Service Order Charge		24.00
B	1	PPE5CEZ2B	E160	5Mbps Enhanced Ethernet - Classic	\$466.00	
B	3	PPETHGLD	EQHGLD	QoS Gold - per Mbps	\$75.00	
				<b>TOTAL</b>	<b>\$541.00</b>	<b>\$24.00</b>

**Additional Terms and Conditions:**

- At [http://about.centurylink.com/legal/rates\\_conditions.html](http://about.centurylink.com/legal/rates_conditions.html), the following information will direct you to the applicable terms and conditions for the Services:  
Entity: Carolina Telephone and Telegraph Company LLC  
Service: Metro Ethernet - Classic Enhanced Services
- The prices quoted apply only to the sites included in the Quote and will not apply if Customer adds, changes or moves site locations. Rates, charges and discounts for Service elements not identified appear in the applicable terms and conditions identified above. Prices do not include taxes or applicable surcharges that CenturyLink may bill Customer. Unless this Quote is incorporated into a signed agreement, it is non-binding. Except for charges described in this Quote, the applicable CenturyLink terms and conditions identified above will control over any inconsistencies or conflicts between the Quote and the terms and conditions.

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## Customer Responsibilities – Ethernet Services described in this Price Quote

If the following responsibilities are not completed before installation of the Ethernet services described in this Price Quote ("Ethernet Services"), CenturyLink reserves the right, at its sole discretion, to reschedule installation, charge Customer for additional work and any necessary materials or Products on a Time and Material basis, or terminate the Agreement (to which this Price Quote is incorporated) with respect to Ethernet Services and any associated services utilizing Ethernet Services.

1. Customer must provide adequate conduit from the right-of-way into the building and confirm access facilities to the building are available for fiber provisioning. It is also Customer's responsibility to locate private utilities on the premises if construction is required. Conduit specifications are as follows: One 2-inch Schedule 40 PVC conduit from 2 feet below grade at the building exterior to a pull box on the building exterior. Pull box must have a minimum dimension of 12-inch x 12-inch x 6-inch deep. Place one 2-inch conduit sleeve through wall from pull box to inside of the equipment room. Conduit must be equipped with 200 lb rated pull tension or greater. Equip conduit with no more than 2 quarter bends (a total of 180 degrees) between cable pulling points. Seal the conduit after installation to protect from damage such as water.

Conduit is not required when Ethernet Service is provisioned over copper or circuit bonding technology, 50 Mbps or less. Ethernet Services delivered via copper/circuit bonding technology will terminate at the CenturyLink demarcation point on a Customer-provided wall-mounted 66 block and cross-connected to a copper loop bonding unit.

2. Customer must provide one 20 x 44 x ¾ inch plywood backboard in an equipment demarcation room with clearance of 36 inches in front of backboard. If the fiber demarcation point is within 25 feet of the equipment rack, a wall board will not be required. All hardware and terminations will be installed in the Customer-provided rack.

If Customer is in a multi-tenant building and the shared building terminal at Customer's location does not have adequate space for CenturyLink fiber termination, Customer or building owner must provide a 24" x 24" x 9" cabinet with ¾" plywood. This cabinet must be associated next to the original building terminal to support association of shared demarcation facilities.

3. Customer must ensure the demarcation point is in an accessible and environmentally controlled location. All CenturyLink Ethernet Services-enabling Equipment requires a clean, dust-free environment that is environmentally controlled to temperatures of 55-80 degrees Fahrenheit and humidity of 70% or less. If Customer is in a multi-tenant building, Customer must ensure that the CenturyLink demarcation point, is accessible to CenturyLink technicians. Customer may need to coordinate access with the building manager to ensure that access is available on the day of installation. Customer must ensure that this location remains dry and free of dampness, and the room temperature remains within the tolerance of sensitive electronic hardware.
4. Customer must ensure 4 consecutive rack units of space in a 19" data rack are available for Ethernet Services. Customer must provide space in a 19" wide data rack for the required hardware. The rack must be either wall or floor mounted. CenturyLink will not install the hardware on a shelf or the floor.
5. Customer must provide a dedicated power outlet and common ground. CenturyLink termination electronics are powered by Customer-provided 120 VAC (20 Amp) circuit. CenturyLink requires the outlet to be a duplex, dedicated and grounded electrical outlet within 6 feet of the equipment location. Common ground must be 25 ohm or less. If Customer does not have an uninterrupted power supply (UPS) on the AC, Ethernet Services will be lost in the event of an AC power failure. If UPS is required, Customer will provide. CenturyLink will provide for an additional charge upon request.
6. Customer must complete inside wiring before the arrival of the CenturyLink installation technicians. Customer must extend the wiring from the demarcation point to the location where the Ethernet Services will be used.

CenturyLink only will extend the demarcation point on a Time and Material basis for an additional charge. Customer must contact its CenturyLink Account Executive to schedule the work. CenturyLink uses the following guidelines when extending the demarcation point: (1) If services are delivered via copper (50 Mbps or less), the

demarcation may be extended a maximum of 300 feet 24 gauge copper, or (2) If services are delivered via fiber, CenturyLink technicians will terminate fiber into a Customer-provided rack a maximum of 25 feet from demarcation.

7. Customer must confirm Ethernet Service hand-off requirements. CenturyLink will provide a standard RJ-45 copper Ethernet connection for 10/100 service and a single mode fiber connection on a 1 Gigabit circuit as the demarcation point for the Ethernet Services. If a different customer hand-off is required, such as a multimode fiber connection, Customer must state the requirement on the site survey per site network page.
8. Customer must confirm that its Local Area Network ("LAN") has an appropriate Ethernet Service port available to provide the desired network functionality and is within the distance required by Ethernet Service specifications. Customer will program the Ethernet Service port for appropriate speed and full duplex setting. (auto-negotiate is not available). Customer will provide CAT5 cable(s) to connect its LAN to the CenturyLink Ethernet Service-enabling equipment. Customer will provide an appropriate Ethernet Service-enabling patch cable for connecting CenturyLink demarcation and Customer-provided Equipment.
9. Ethernet Services are a Layer 2 network service only. All customer premises LAN Layer 3 (e.g. IP) addressing is Customer's responsibility. CenturyLink will provide pricing for additional equipment and labor to enable Layer 3 functionality, if required. In most cases this will be a router which will provide the Layer 3 routing of subnets and VLAN on Customer's network. If Customer only requires Layer 2 bridging (a flat network) across the Ethernet Services, then a standard Ethernet Service switch port is all that is required.
10. The CenturyLink installer will not connect Ethernet Services to Customer's LAN. CenturyLink installers will install the hardware and identify a port for connection. CenturyLink highly recommends the use of a qualified networking vendor to assist with LAN configuration. A CenturyLink Account Executive can provide pricing for CenturyLink network configuration for Ethernet Services.

Ethernet Services will be installed at your site only upon completion of all of these steps. If Customer is unable to complete all of these requirements before the installation date, Customer will notify CenturyLink as soon as it becomes aware of its inability.



# PROJECT OFFER

## Martin County Central E911 Communications Center

Evans 24/7 Control Room Chairs

Rev 1

March 9 ,2015

### Submitted By:



Evans Consoles Incorporated  
Kent Brewer  
Regional Sales Manager  
862 Sea Cliff Drive  
Fairhope, Alabama  
USA 36532

Phone: 678-417-1775  
Cell: 404-435-0155  
Email: [kbrewer@evansonline.com](mailto:kbrewer@evansonline.com)  
Web: [www.evansonline.com](http://www.evansonline.com)

### Submitted To:

Jason P. Stewart  
Telecommunications Manager  
Martin County Central E911 Communications Center

Williamston, NC



ISO 9001:2008



ECUS-RSMQT-V2.05082013



6 positions equates  
to \$10,500.

# Price Quote

Martin County Central E911 Communications Center

Rev 1

CHAIRS			
Description	Quantity	Unit Price	SUBTOTAL
Iron Hourse Chairs: IH4000I 155M1.SL-DG-K Std Leather Dark Graphite 7 Position locking tilt mechanism, HD Shock, ratcheting headrest, tilt up armrest, black composite base with 60mm casters.	5	1750.00	8750.00
<b>TOTAL CONSOLES</b>			\$ 8,750.00

<b>SALES TAX NOT INCLUDED</b>	
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<b>TOTAL</b>	<b>\$ 8,750.00</b>
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<b>Payment Terms</b>	30/60/10	Notes: 30% progress payment due upon Sign Off 60% due on shipping 10% post installation Net 30; 2% Net 15
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<b>Shipping Terms</b>	CIP (Carriage Insurance Paid To)
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450, 1577 Spring Hill Road | Vienna, VA | USA 22182  
ph +1.403.291.4444 | fx +1.403.250.6549 | www.evansonline.com

This quote was modified to reflect 6 console workstations. The total cost of \$109,154 was used to determine a per unit cost, which was multiplied by 6.

## PRICE QUOTATION

Quotation Number: U15-5115-A Date: February  
Project Name: Martin Co 911 Proposal By: Scott B  
Project Location: Williamston, North Carolina, United States Revision: A

### DISPATCH™ III

ITEM PART NUMBER	DESCRIPTION	QTY	UNIT PRICE	VALUE (USD)
<b>Call Takers</b>				
<b>OUTER MODULES</b>				
<b>Dispatch Outer Modules</b>				
1 DP3-DT-FD-OM-30	30" (762mm) wide Desktop Module w/Front and Rear Hinged Panels with integrated 2 tier cable mgmt	4	1,189.00	4,756.00
<b>INNER MODULES</b>				
<b>Dispatch Inner Modules</b>				
2 DP3-DT-RD-IM-36	36" (914mm) wide Desktop Module w/Front and Rear Hinged Panels.	2	948.00	1,896.00
<b>CORNER MODULES</b>				
<b>Dispatch Corners</b>				
3 DP3-DT-FD-CM-45	45° Desktop Short Corner Full Depth Module	4	698.00	2,792.00
<b>CORNER BRIDGING MODULES</b>				
4 DP3-SCB-90-DOOR	90° reverse short corner bridging unit (with integrated cable mgmt) with closed door & shelves	1	2,199.00	2,199.00
<b>SLATWALL / PANELING SYSTEM</b>				
5 DP3-SPS-ST-12	12" High Slatwall on a 3.5" base with brushed grommet front access (1 per module) & internal cable mgmt - Includes Rear Panels with console finish (per linear ft.)	24	280.00	6,720.00
<b>END TREATMENTS</b>				
6 DP3-FD-CS-EPAN-LH	Full Depth Contemporary Standard Style End Panel, Left Hand	1	449.00	449.00
7 DP3-FD-CS-EPAN-RH	Full Depth Contemporary Standard Style End Panel, Right Hand	1	449.00	449.00
<b>WORKSURFACES</b>				
<b>Worksurface Options</b>				
8 DP3-WS-F-ADJUSTSPWS-C	Cockpit style, Monitor Platform Full Lift, Single Piece Worksurface. Comes standard with 1.5" rubber ergonomic nosing.	2	866.00	1,732.00
<b>LIFT COLUMNS</b>				
<b>Lift Options</b>				
9 CM-SSW	Enhanced contact safety option (per module; mandatory)	6	185.00	1,110.00
10 LC-2-HD	Two heavy duty Lift Columns with control equipment - Main Platform	2	1,850.00	3,700.00
<b>EQUIPMENT SUPPORT SOLUTIONS</b>				
<b>Equipment Support Shelves</b>				
11 DP3-SHELF-SLIDE	Slide-out processor shelf	4	224.00	896.00
<b>STANDARD FINISHES</b>				
12 STANDARD FINISH	High Pressure Laminate Finish		Included	Included
<b>ACCESSORIES</b>				
<b>Electrical Features</b>				
13 EL-ECS	EnviroLinc environmental control system	2	1,545.00	3,090.00
14 EL-FPNL-FAH	EnviroLinc compatible - Front Panel Mounted Forced Air Heater	2	466.00	932.00
15 PB-NA-6-15	North America Power Bar with mounting bracket; 120V/15A, 6 outlets, 15' power cord, CSA/UL	2	112.00	224.00
16 PB-NA-6-6	North America Power Bar with mounting bracket; 120V/15A, 6 outlets, 6' power cord, CSA/UL	6	96.00	576.00
17 SW-TSKL-LED-S	Tasklight by Koncept, Mosso Model. Includes slatwall mounting bracket.	2	263.00	526.00
<b>E-Arms</b>				

# DISPATCH™ III

ITEM	PART NUMBER	DESCRIPTION	QTY	UNIT PRICE	VALUE (USD)
18	E-ARM-G2-SW-SH	Single High Articulating Monitor Arm with nominal 21" (534mm) Extension, 12" (305mm) Pole Height. Includes Slatwall Mount and VESA adapter Plate(75mm and 100mm). Accommodates monitor weighing up to 40lb (18kg).	10	353.00	3,530.00

## FEATURES & FINISH UPGRADES

19	CUWSE	Injection Molded Soft Urethane Worksurface Front Edge (per linear ft.)	19	61.00	1,159.00
<b>Pre-Sub Total:</b>					<b>36,736.00</b>
<b>Number of Units:</b>					<b>2</b>
<b>Sub Total:</b>					<b>73,472.00</b>

## Supervisor

### OUTER MODULES

#### Dispatch Outer Modules

20	DP3-DT-FD-OM-30	30" (762mm) wide Desktop Module w/Front and Rear Hinged Panels with integrated 2 tier cable mgmt	2	1,189.00	2,378.00
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### INNER MODULES

#### Dispatch Inner Modules

21	DP3-DT-RD-IM-36	36" (914mm) wide Desktop Module w/Front and Rear Hinged Panels.	1	948.00	948.00
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### CORNER MODULES

#### Dispatch Corners

22	DP3-DT-FD-CM-45	45° Desktop Short Corner Full Depth Module	2	698.00	1,396.00
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### SLATWALL / PANELING SYSTEM

23	DP3-SPS-ST-12	12" High Slatwall on a 3.5" base with brushed grommet front access (1 per module) & internal cable mgmt - Includes Rear Panels with console finish (per linear ft.)	12	280.00	3,360.00
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### END TREATMENTS

24	DP3-FD-CS-EPAN-LH	Full Depth Contemporary Standard Style End Panel, Left Hand	1	449.00	449.00
25	DP3-FD-CS-EPAN-RH	Full Depth Contemporary Standard Style End Panel, Right Hand	1	449.00	449.00

### WORKSURFACES

#### Worksurface Options

26	DP3-WS-F-ADJUSTSPWS-C	Cockpit style, Monitor Platform Full Lift, Single Piece Worksurface. Comes standard with 1.5" rubber ergonomic nosing.	1	866.00	866.00
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### LIFT COLUMNS

#### Lift Options

27	CM-SSW	Enhanced contact safety option (per module; mandatory)	3	185.00	555.00
28	LC-2-HD	Two heavy duty Lift Columns with control equipment - Main Platform	1	1,850.00	1,850.00

### EQUIPMENT SUPPORT SOLUTIONS

#### Equipment Support Shelves

29	DP3-SHELF-SLIDE	Slide-out processor shelf	2	224.00	448.00
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### STANDARD FINISHES

30	STANDARD FINISH	High Pressure Laminate Finish	Included		Included
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### ACCESSORIES

#### Electrical Features

31	EL-ECS	EnviroLinc environmental control system	1	1,545.00	1,545.00
32	EL-FPNL-FAH	EnviroLinc compatible - Front Panel Mounted Forced Air Heater	1	466.00	466.00
33	PB-NA-6-15	North America Power Bar with mounting bracket; 120V/15A, 6 outlets, 15' power cord, CSA/UL	1	112.00	112.00
34	PB-NA-6-6	North America Power Bar with mounting bracket; 120V/15A, 6 outlets, 6' power cord, CSA/UL	3	96.00	288.00
35	SW-TSKL-LED-S	Tasklight by Koncept, Mosso Model. Includes slatwall mounting bracket.	1	263.00	263.00

#### E-Arms

36	E-ARM-G2-SW-SH	Single High Articulating Monitor Arm with nominal 21" (534mm) Extension, 12" (305mm) Pole Height. Includes Slatwall Mount and VESA adapter Plate(75mm and 100mm). Accommodates monitor weighing up to 40lb (18kg).	5	353.00	1,765.00
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## FEATURES & FINISH UPGRADES

37	CUWSE	Injection Molded Soft Urethane Worksurface Front Edge (per linear ft.)	7	61.00	427.00
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## DISPATCH™ III

ITEM PART NUMBER	DESCRIPTION	QTY	UNIT PRICE	VALUE (USD)
	Pre-Sub Total:			17,565.00
	Number of Units:			1
	Sub Total:			17,565.00
Dispatch™ III Sub Total				(A) 91,037.00





450, 1577 Spring Hill Road | Vienna, VA | USA 22182  
 ph +1.403.291.4444 | fx +1.403.250.6549 | www.evansonline.com

## PRICE QUOTATION SUMMARY

### PRODUCT SUMMARY

		VALUE (USD)
Dispatch™ III Sub Total	(A)	91,037.00
Console Installation and Maintenance Tool Kit	(B)	Included
SUB TOTAL ITEMS (A) to (B) inclusive	(AA)	91,037.00

### PROJECT LOGISTICS

Packaging: Blanket Wrapped	(BB)	Included
Freight: Cartage & Off-Loading, CIP Door to Door, Shipment by Truck	(CC)	9,104.00

#### Additional Shipping Info:

Carriage and Insurance Paid to "Named Destination". Delivery is complete when the goods arrive, at the named place of destination. The quotation includes delivery by transport truck. Unless otherwise noted, a single offloading activity to the 'room-of rest' at the destination is included. All other costs and obligations, once the goods have arrived, are the responsibility of the Buyer.

If suitable access and unloading facilities are not available, please contact Evans to provide quote for alternate arrangements.

Installation: Assumes SINGLE Installation Activity, NON-UNION Site	(DD)	9,013.00
Additional Installation Info:		
Assumes SINGLE Installation Activity.		

\*The client must identify and provide a POC (point of contact) responsible for decision making or whom will have access to a person of authority for the duration of the scheduled installation activity. The appointed POC must ensure that either he/she or the authorized representative will be available upon completion of the installation activity to sign off the Evans PCR (Project Completion Report) \* Failure to provide such a contact assumes the activity as reported has been accepted.

\*\*Assumes that site preparedness had been met in accordance with the attached contract terms and conditions, specifically Sections 5 and 6.

SUB TOTAL ITEMS (AA) to (EE) inclusive	109,154.00
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Total, in USD, CIP Dtd Williamston, North Carolina, United States, All Sales Taxes Excluded	109,154.00
INCO Terms 2010	

#### The following items are required by Evans Consoles to constitute a complete order:

- PURCHASE ORDER
- ACCEPTED TERMS & CONDITIONS
- PROGRESS PAYMENT
- SIGNED DRAWINGS
- APPROVED FINISHES
- LOGISTICS INFORMATION SHEET

#### Evans Consoles Payment Terms for Invoicing (Taxes Excluded Unless Otherwise Noted):

- 30% progress payment due upon Sign-off, net 30, 2% net 15
- 60% progress payment due upon shipment of Work, net 30, 2% net 15
- 10% final payment due upon installation of Work, net 30, 2% net 15

Quote is NOT valid without the Evans Consoles Terms & Conditions document.

Quote validity period is 90 days for product (only). See Evans Consoles Terms & Conditions document for more details.

Total Price:	\$109,154.00
--------------	--------------



450, 1577 Spring Hill Road | Vienna, VA | USA 22182  
ph +1.403.291.4444 | fx +1.403.250.6549 | [www.evansonline.com](http://www.evansonline.com)

This 'Offer' as presented by Evans Consoles Incorporated totaling \$109,154.00 for project number U15-5115 issued on February 23, 2015 / Rev. A has been reviewed and accepted by:

Company: \_\_\_\_\_

Authorized Approval Personnel: \_\_\_\_\_

(Signature)

\_\_\_\_\_

(Print Name)

\_\_\_\_\_

(Title)

on this day, \_\_\_\_\_

(Day/Month/Year)

Purchase Order Number: \_\_\_\_\_

Evans Terms and Conditions are included and acceptable.

**Evans Consoles Incorporated**

450 - 1577 Spring Hill Road  
Vienna, VA, USA 22182  
Ph: 403-291-4444  
Fx: 403-250-6549

**Progress Payment  
Invoice # U15-5115****INVOICE TO:****Martin Co 911**

Williamston, North Carolina, United States  
27892

Project Contact: **JASON Steward**  
Telephone No.: **252-789-4556**  
Fax No.:

Evans Project No.: **U15-5115**  
Evans Contact: **Scott Brown**  
Telephone No.: **336-545-1725**

Attention: JASON Steward  
Issuance Date: **February 23, 2015**  
Terms: **DUE NET 30 UPON PO  
SUBMITTAL**

ITEM	Taxable	DESCRIPTION	AMOUNT
1		Dispatch III	\$91,037.00
2		Packing Preparation	Included
3		Freight: Cartage & Off-Loading, CIP Door to Door, Shipment by Truck	\$9,104.00
4		Engineering / Shop Drawings	Included
5		Installation: Assumes SINGLE Installation Activity, NON-UNION Site	\$9,013.00
Total Contract Value:			\$109,154.00
Authorized Signature:			Progress Payment Billing: 30% of Contract Value 32,746.20
Sales Tax will be charged at time of shipment			
PLEASE PAY THIS AMOUNT ----->			DUE: \$ 32,746.20 USD
<b>Send Cheques to the company and address noted at the top of the invoice.</b>			
<b>Wire Transfer Payment Instructions:</b>			
<b>Harris National Association</b>			
<b>111 W Monroe Street, Chicago, IL 60603</b>			
<b>Acct: 4800197805, Routing no: 071025661, Name: Evans Consoles Incorporated</b>			
<b>SWIFT: HATRUS44</b>			
<b>Reference Project Number: U15-5115</b>			

# EVANS CONSOLES

## STANDARD TERMS & CONDITIONS

The following standard terms and conditions apply to the attached quotation (the "Quotation"), unless expressly stated otherwise in the Quotation provided by Evans Consoles Corporation and/or Evans Consoles Incorporated (collectively, "Evans") to the purchaser (the "Buyer") of the products and/or services (the "Work").

### 1.0 Quotation

- 1.1 Unless otherwise stated, the Quotation prices are valid for ninety (90) days and freight and installation prices are valid for thirty (30) days from the date of the Quotation.
- 1.2 The prices in the Quotation are valid for Work shipped or completed within twelve (12) months from the date of the confirmed order (the "Purchase Order"). Evans reserves the right to revise or adjust pricing, in their sole discretion, on orders not shipped or completed within the twelve (12) month period. Requests to defer the installation service beyond six (6) months from product shipment are subject to a revised installation Quotation.

### 2.0 Price and Payment

- 2.1 Except as otherwise agreed in writing by the parties, the prices of the Work shall be paid as per the following payment terms:
  - 2.1.1 Thirty percent (30%) net thirty (30) due upon Sign Off, as herein defined, two percent (2%) net fifteen (15);
  - 2.1.2 Sixty percent (60%) net thirty (30) upon shipment of Work, two percent (2%) net fifteen (15);
  - 2.1.3 Ten percent (10%) net thirty (30) after installation of Work, two percent (2%) net fifteen (15); and
  - 2.1.4 One point 5 percent (1.5%) late payment penalty shall be applied per calendar month per payment if payment not received within 30 days of invoice issuance.
- 2.2 For Purchase Orders which require the Work to be shipped and or installed outside of Canada or the United States, credit approval from a third party agency previously approved by Evans must be obtained and provided in a form satisfactory to Evans in their sole discretion. Payment must be provided through an irrevocable letter of credit (the "ILC"). The terms of the ILC shall be:
  - 2.2.1 The ILC shall be in the English language and all supporting or related documents requiring execution shall also be in English;
  - 2.2.2 The ILC shall be drawn on the Bank of Montreal or an affiliated bank in the currency stated in the Quotation;
  - 2.2.3 The expiry of the ILC must extend at least six (6) months past the installation or shipping date set out in the Quotation, whichever is later; and
  - 2.2.4 All documents requiring execution relating to the ILC must be within the control of Evans or produced by Evans, such as the bill of lading, commercial invoice, certificate of origin, statement of compliance to product specification.
- 2.3 The Quotation price includes all transportation, carriage and insurance from Evans' manufacturing facility to the designated place for delivery specified in the Quotation.
- 2.4 Any specific or extra shipping or insurance requirements of the Buyer must be disclosed prior to the issuance of the Purchase Order, and may result in an amendment to the Quotation to consider any additional costs incurred.
- 2.5 Unless stated otherwise, sales taxes are not included in the Quotation price. For shipments within the United States or Canada Evans is required by law to collect the appropriate provincial, state and municipal sales and use taxes at the time of invoice, for the products supplied. Evans will require a certificate of tax exemption prior to the time of invoicing if applicable to this procurement. For shipments outside of the United States or Canada, payment of importation fees and customs clearance, duties, sales taxes or any other taxes at the shipping destination are the sole responsibility of the Buyer.

### 3.0 Scheduling

- 3.1 Evans will not begin the procurement of materials for the Work, or fabrication until the Buyer has paid the payment set out in 2.1.1., and provided acceptance of the signed off drawings, in writing, authorizing Evans to proceed with fabrication of the Work. This milestone is referred to as the "Sign Off".
- 3.2 Evans will establish a formal project schedule, based on dates mutually agreeable to the Buyer and Evans, to ensure a timely delivery the Work after receipt of the Purchase Order and Sign Off. The project size, scope and shipping destination will affect the project schedule.

### 4.0 Packing

- 4.1 For shipments to the United States or Canada, the Quotation includes packaging suitable for dedicated air-ride moving van shipment. Components such as panels, work surfaces and baseboards may be packaged separately. The console framework will be segmented into convenient lengths for handling.
- 4.2 At the Buyer's request, Evans can supply rugged crating for general freight, ocean freight, air freight or less than truckload (LTL) shipment at an additional charge. All projects requiring crating will be quoted and furnished with Evans standard frame crates (plywood on bottom only) unless noted otherwise. If alternate crating requirements are requested after the Purchase Order has been issued, Evans will provide a revised Quotation or change order for any additional services.

### 5.0 Shipment and Storage

- 5.1 The shipping price is valid only for the shipment of the Work described in the Quotation, based upon single shipping activity unless noted otherwise. If the Buyer requests additional shipments, expedited shipments or off-site storage of the products, Evans will provide a revised Quotation or change order for the additional services.
- 5.2 Evans follows the international trade terms under INCOTERMS 2010.
- 5.3 When Evans is responsible for shipping the Work, unless otherwise stated, the shipping terms shall be CIP (carriage, insurance paid to) named destination point. Title and risk shall pass to the Buyer when the Work delivered to the carrier by.
- 5.4 If damage occurs during shipment, these damages must be identified and Evans notified within forty-eight (48) hours of delivery. In the case of an ocean shipment, the damaged goods must be set aside for a formal marine survey and it must be noted whether or not the container's seal was intact upon arrival at the destination. The surveyor shall determine where the damages occurred and assign liability to the appropriate party. The carrier has the right to take physical possession of the Work against which damages are being claimed. If the carrier is assessed a financial sum for the damaged product, they have the right to sell the damaged Work for salvage.
- 5.5 For deliveries within the United States or Canada a single offloading activity is included in the Quotation. The Quotation is based upon clean and clear access from the point of unloading to the room of rest. For international deliveries, container unloading is not included in the Quotation.
- 5.6 If the Buyer is responsible for shipping the Work, the shipping term will be ex works (named place of delivery) as defined in Incoterms 2010. Evans will place the Work on Evans' loading dock, suitably packaged for export shipment. The Buyer shall communicate to Evans the method of transport to ensure the packaging is appropriate, subject to the shipping provisions contained herein. Title passes to the Buyer when the Work is removed from Evans' dock and the Buyer or their representative carrier, signs the bill of lading. The Buyer is responsible for damages during loading, transport or off-loading.

- 5.7 The Work is designed for indoor control room environments with temperature and humidity control. Evans requires, in circumstances where any Work is to be stored by Buyer, that Work, including the Work contained in crates or shipping materials, be housed in indoor warehouse conditions maintaining a constant temperature range between fifteen to twenty-five (15 to 25) degrees Celsius or sixty to seventy (60-75) degrees Fahrenheit and between forty-five to fifty-five percent (45 to 55%) humidity range. Adequate temperature control and ventilation must be provided during storage and handling to protect the Work from extreme climate fluctuations. Evans will not replace under warranty, nor will it be deemed a breach of any representation or warranty regarding the quality of the Work, any Work damaged by improper or negligent storage conditions, or conditions which do not meet the standards outlined herein at the sole discretion of Evans.

## **6.0 Site Preparation and Installation**

- 6.1 The Buyer shall make the destination and/ or project site (the "Site") clean, clear, and prepared for the installation or delivery of the Work upon the agreed delivery date. For installation, all flooring, carpeting, walls, painting, and electrical construction that could in any way effect or impact the installation of the Work must be complete.
- 6.2 The Buyer shall appoint a representative who will be available at the Site to direct Evans installation team regarding security, site safety and Work placement.
- 6.3 The price for the installation of the Work contained in the Quotation is firm and fixed for a single installation visit for the Work at a non-union Site for affiliated furniture systems installers. If the Buyer requests union labor for off-loading or installation after a Purchase Order has been accepted, all additional costs will be the responsibility of the Buyer. Unless otherwise agreed, the installation price contained in the Quotation is based upon a single installation of the Work during weekday, regular work hours. Evening or weekend installation activities may be subject to additional charges to the Buyer.
- 6.4 Multiple installation activities, additional time required for unscheduled safety training sessions or drug testing, Work requiring relocation by Evans at the Site or general delays caused by Site conditions not being prepared for the Work will be an additional charge to the Buyer.
- 6.5 All installations of the Work must be performed by an authorized Evans Representative or an Evans' certified dealer (collectively the "Installer"). For Purchase Orders made excluding installation services, it is understood that Evans products are customized and do not come with installation or assembly manuals. If the Buyer wishes to purchase the Work contained herein without installation services provided by Evans, they shall execute an installation waiver in favor of Evans. If the Buyer is a dealer not certified by Evans to act as an Installer, the Buyer is required to use an Installer.

## **7.0 Changes**

- 7.1 The parties may, by written or electronic notification, request changes to the drawings, designs, specifications, method of shipment or packing, quantity, or time or place of delivery of the Work, reschedule the installation, or require additional or diminished Work (the "Changes").
- 7.2 All Changes requested must be agreed to in writing by both parties, otherwise they are unenforceable. Only an authorized representative of Evans may issue Changes to the Purchase Order. If any Change causes an increase or decrease in the price of, or the time required for, performing the Purchase Order, an equitable adjustment will be made in the Purchase Order price, delivery dates or both, and Evans will provide a revised Quotation or change order for the adjustment.

## **8.0 Buyer Acceptance**

- 8.1 Upon completion of the installation, the Buyer shall arrange for a representative to receive a product demonstration and training on the operation and maintenance of the installed Work.
- 8.2 Upon completion of the installation of the Work, a report will produced by the Installer and will be executed by the Buyer's representative signifying acceptance of the installed Work subject to the resolution of any damaged or deficient items. If the installation is not substantially completed, the final acceptance will be delayed until the resolution of all identified deficient or damaged items is complete. Signed acceptance including a punch list of any noted deficiencies and/or damages must be reported back to Evans corporate office with 48 hours of installation completion. All Installers must provide a signed acceptance from the Buyer to Evans.

## **9.0 Evans Warranty**

- 9.1 Unless otherwise stated in the Quotation, Evans warrants that all the Work will be free from defects in materials and workmanship from the date of purchase. Terms of the warranty are as follows:
- 9.1.1 LIFETIME WARRANTY on all fixed structural frame components;
  - 9.1.2 LIFETIME WARRANTY on all static exterior panels and work surface components parts; with 5 years for labor;
  - 9.1.3 LIFETIME WARRANTY on all adjustable, sliding or hinged mechanisms or parts; with 5 years for labor;
  - 9.1.4 OEM (original equipment manufacturer) warranty on all buyouts, and 5 years on all Evans branded E-accessory products (unless specifically defined by product line);
  - 9.1.5 5 YEAR WARRANTY on electrical actuated lift columns;
  - 9.1.6 3 YEAR PRODUCT WARRANTY on Evans' PowerLine™ system; and
  - 9.1.7 3 YEAR PRODUCT WARRANTY on Evans' EnviroLine™ system.
- 9.2 The warranty period will begin on the date the Work receives final acceptance from the Buyer at the Site. Notification of any defect or failure must be delivered in writing to Evans within the applicable warranty period. In the event that a written notice of a warranty claim is not delivered to Evans prior to the expiration of the relevant warranty period, Evans shall not be obligated to provide any warranty to the Work.
- 9.3 At Evans option, products will be repaired at the Site or, if deemed necessary, will be returned to Evans, with Evans being responsible for shipping and handling charges and insuring the shipment. Evans will return the repaired or replacement products to the Buyer via prepaid freight. If Evans does not accept a notice of defect or failure based on their sole discretion that the defect or failure was caused by causes or situations outlined in section 9.5 below, the decision is binding and final upon the Buyer.
- 9.4 The warranty periods shall not be extended or modified due to any warranty claims, repairs or replacements made under this section 9.
- 9.5 This warranty does not cover damage due to external causes, including accident, abuse, problems with electrical power, improper application and misuse, installation by parties other than Installers, alterations, improper storage, servicing unauthorized by Evans, neglect, problems caused by the use of parts and components not supplied by Evans, or the effects of normal wear and tear.
- 9.6 The warranty on Evans Urethane Ergonomic Waterfall Nosing is void and unenforceable if any ammonia based cleaners are used on the Work.
- 9.7 This warranty does not cover any consumable items such as, but not limited to, light bulbs, filters, and any third party software.
- 9.8 The provision of installation labor is at the sole discretion of Evans, and is excluded on all buy-out products that are not directly incorporated into the design/manufacture of Evans' custom-fabricated products.
- 9.9 Rights and benefits of this section 9 are given solely to the original Buyer of the Work and may not be transferred or assigned to a third party without the prior written consent of Evans.

## **10.0 Confidentiality**

- 10.1 The Buyer agrees to maintain confidentiality with regard to secret, confidential, and proprietary information, as well as all trade secrets and intellectual property disclosed or developed by Evans in connection with the Work or the Purchase Order, and shall require the similar undertaking from any employees, subcontractors, representatives or agents. Any drawings, plans and data, furnished by Evans to the Buyer and all related technical and commercial information that the Buyer may receive in the course of the Purchase Order and the Work, shall be confidential and shall not be used for any purpose other than performing this contract. Such confidential information shall not be reproduced or copied by the Buyer without Evans written consent and shall remain the sole property of Evans, even upon completion of the Work and Purchase Order.

## 11.0 Jurisdiction

- 11.1 All Purchase Orders entered by a Buyer residing primarily, or having head offices, in the United States, regardless of its place of negotiation, execution, or performance, shall be governed by and subject to the laws of the Commonwealth of Virginia and exclusive jurisdiction of the state courts of Fairfax County, Virginia and the United States District Court for the Eastern District of Virginia, Alexandria Division, as appropriate, shall have exclusive jurisdiction regarding any related disputes.
- 11.2 All Purchase Orders entered by a Buyer residing primarily, or having head offices, in Canada or any other country internationally, regardless of its place of negotiation, execution, or performance, shall be governed by and subject to the laws of the Province of Alberta and of Canada applicable therein, and exclusive jurisdiction of the courts of Calgary, Alberta, as appropriate, shall have exclusive jurisdiction regarding any related disputes.

## 12.0 Limitation of Liability

- 12.1 The parties agree to indemnify and hold harmless the other party from any and all claims for damage, loss, injury or expense, including reasonable attorney fees, to any property or persons, arising out of, or in any way incidental to the negligent performance of their respective obligations under the Purchase Order or by anyone for whom they are in law responsible.
- 12.2 Evans does not provide professional architectural, electrical engineering, mechanical engineering or structural engineering services. Evans shall be held harmless for such work based on design recommendations provided by the Buyer or Buyer's representatives during the course of the Purchase Order.
- 12.3 EVANS IS NOT LIABLE FOR ANY LIQUIDATED, SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL, EXEMPLARY, OR PUNITIVE DAMAGES (INCLUDING ANY DAMAGES FROM BUSINESS INTERRUPTION, LOSS OF PROFITS OR REVENUE, COST OF CAPITAL, OR LOSS OF USE OF ANY PROPERTY OR CAPITAL) EVEN IF ADVISED, OR OTHERWISE AWARE, OF THE POSSIBILITY OF ANY SUCH DAMAGES. THE EXCLUSION OF SUCH DAMAGES IS INDEPENDENT OF, AND WILL SURVIVE, ANY FAILURE OF THE ESSENTIAL PURPOSE OF ANY LIMITED REMEDY UNDER THESE TERMS AND CONDITIONS. IN NO EVENT SHALL EVANS' LIABILITY EXCEED THE VALUE OF THE PURCHASE ORDER.

## 13.0 Force Majeure

- 13.1 If, by reason of a force majeure, either party hereto shall be rendered unable wholly or in part to carry out its obligations under the Purchase Order, then such party shall give notice and full particulars of such force majeure in writing to the other party within a reasonable period of time. Upon such notice, the obligations of the party giving such notice, so far as it is affected by such force majeure, shall be suspended during the continuance of the event then claimed, and such party shall endeavor to remove or overcome such inability with all reasonable diligence. The term force majeure as employed herein, shall mean acts of God, strikes, lockouts, or other industrial disturbances, act of public enemy, insurrection, riots, epidemics, landslides, lightning storms, earthquake, fires, hurricanes, storms, floods, washouts, droughts, arrests, restraint of government and people, civil disturbances, explosions, or any other causes not reasonable within the control of the party claiming the force majeure.
- 13.2 Each party shall take all commercially reasonable steps to mitigate any loss or damages as a result of the force majeure.
- 13.3 The Buyer shall pay for the portion of the Work completed and/ or delivered up until the point of delay by force majeure.

## 14.0 Termination

- 14.1 If the Buyer is in material breach of the Purchase Order and fails to remedy the breach within 10 days of written notice of the breach, Evans may terminate this Purchase Order at their sole discretion. If the material breach continues, Evans may terminate this Purchase Order and Buyer will be responsible for any costs incurred by Evans in their performance under the Purchase Order to the date of termination.
- 14.2 The solvent party may terminate this Purchase Order upon written notice if the other party commits an act of insolvency or the Buyer is unable to produce satisfactory evidence of solvency at the request of Evans.

## 15.0 Waiver

- 15.1 The failure of either party to enforce at any time any of the provisions of the Purchase Order will not be construed to be a continuing waiver of those provisions, nor will any such failure prejudice the right of the party to take any action in the future to enforce any provision.

## 16.0 Survival & Severability

- 16.1 All provisions of these terms and conditions which by their nature should apply beyond its term will remain in force after any termination or expiration of the Purchase Order, including but not limited to sections 9, 10, 11, 12, 15 and 17.
- 16.2 If any provision of these terms and conditions are held to be illegal, invalid, or unenforceable by a court of competent jurisdiction, that provision will be severed from these terms and conditions and the Purchase Order and the remaining provisions will remain in full force and effect.

## 17.0 TAXES AND DUTIES – ONLY APPLICABLE FOR U.S. ORDERS

- 17.1 Evans is required by US Federal law to provide a federal tax identification number on all shipments delivered within the United States of America. This information must be included in the Purchase Order prior to shipment of any Work.
- 17.2 Notwithstanding anything to the contrary contained in the Quotation, the Buyer and Evans acknowledge and agree that as of the date of the Quotation that no duties, levies, import charges or assessments are levied or assessed by the Government of the United States of America on the importation of the goods and services described in the Quotation into the United States of America and accordingly, the price does not include any duties, levies, import charges or assessments levied or imposed by the Government of the United States of America upon the importation of the goods or services described in the Quotation. Any such duties, levies, import charges or assessments as are levied or imposed at any time hereafter by the Government of the United States of America upon the importation into the United States of America of the Work shall be paid by in whole by the Buyer. If such duties, levies, import charges or assessments are paid by Evans, they shall be reimbursed by the Buyer to Evans upon invoice thereof. The price set forth in the Quotation for the Work includes all transportation, carriage and insurance from Evans' manufacturing facility in Calgary, Alberta, Canada to the designated place or places for delivery specified in the Quotation.

These terms and conditions executed on the \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

EVANS CONSOLES

[NTD: BUYER]

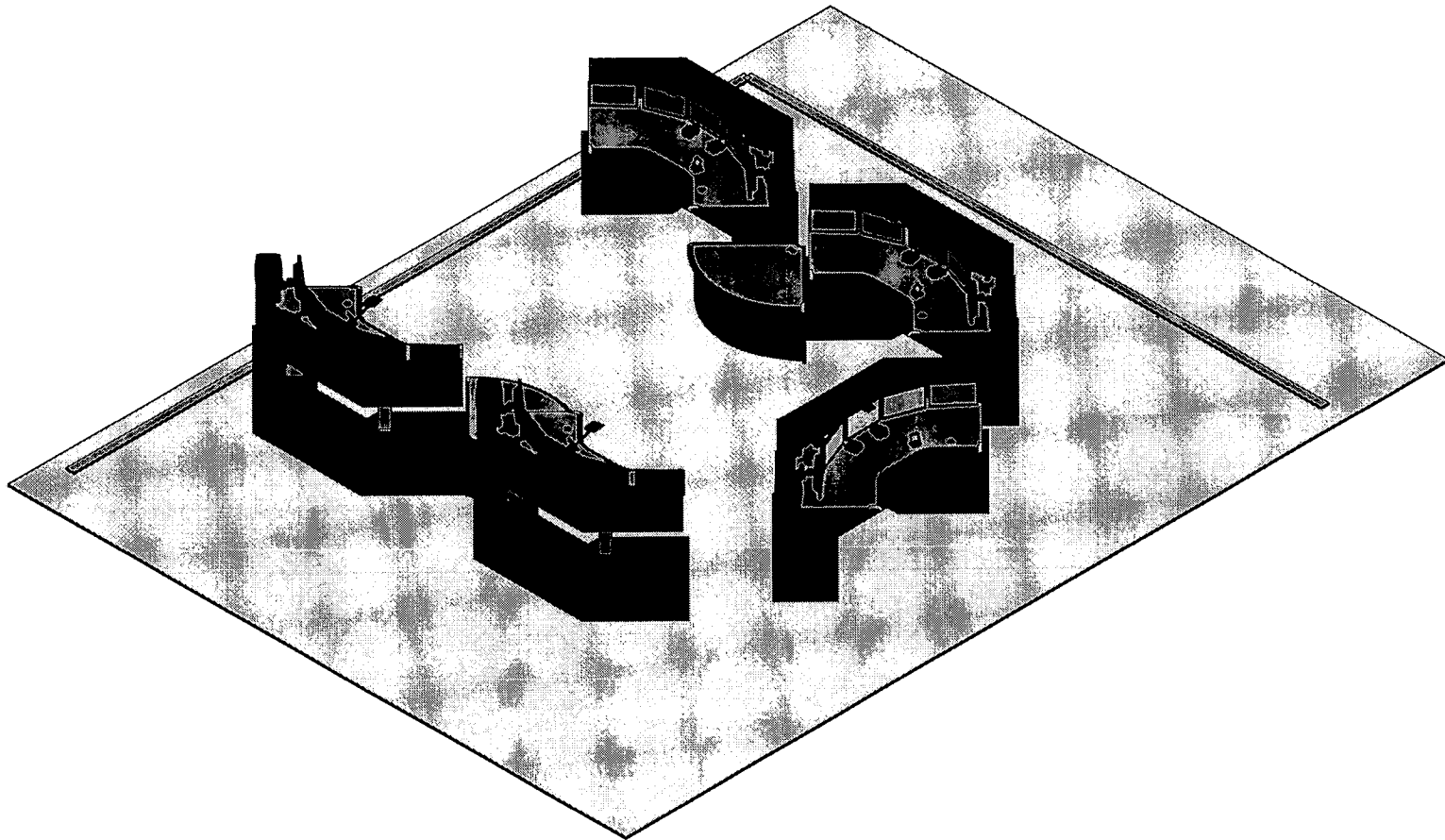
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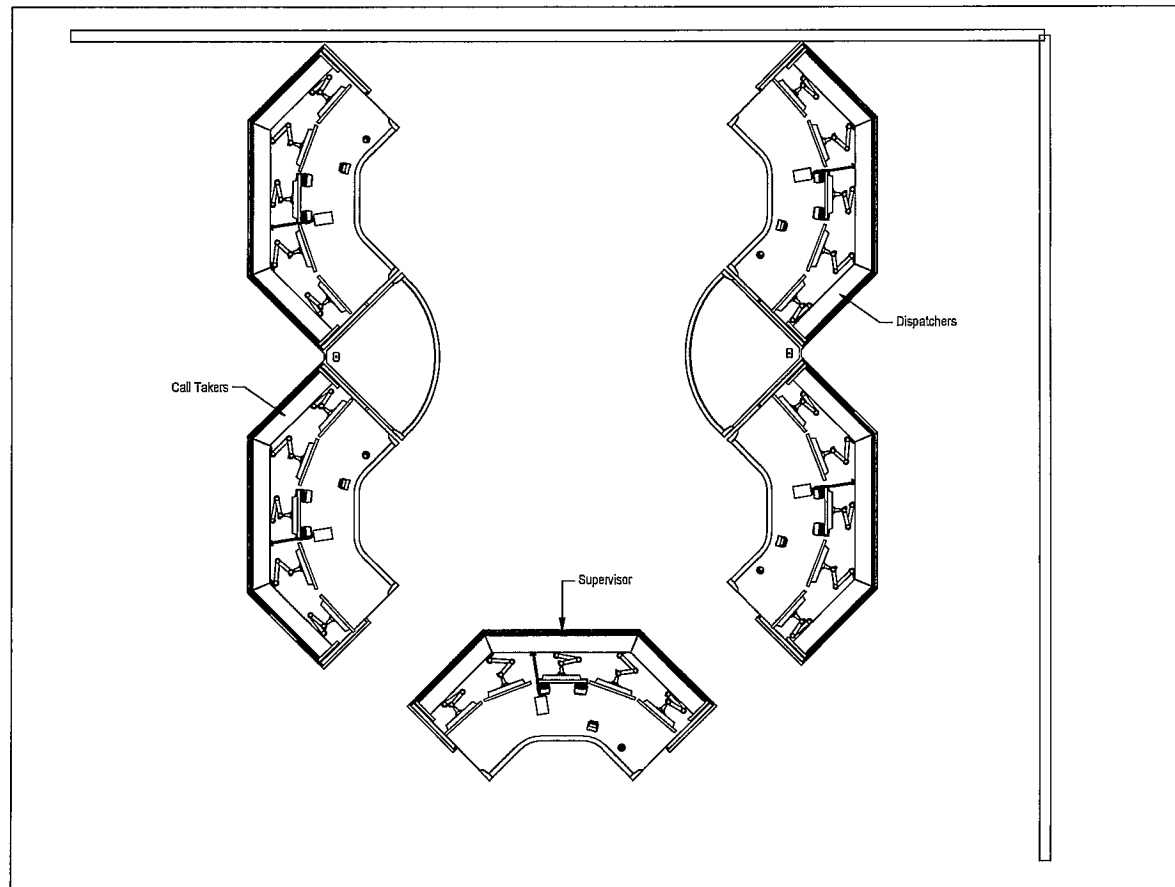
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rev. February 20, 2014



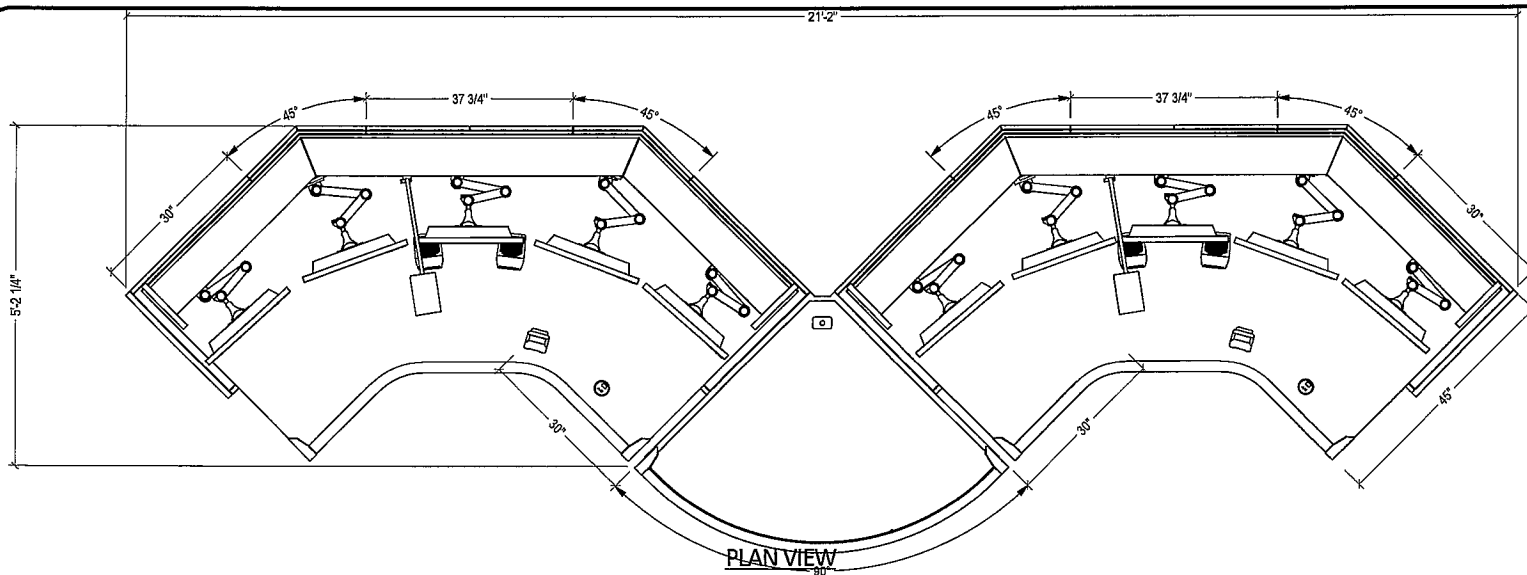
 <p>REGISTERED TO ISO 9001:2008</p>		 <p>ISO 11064 ERGONOMIC DESIGN OF CONTROL CENTERS</p>		 <p>EVANS CONSOLES LESES TABLES 1993/1999</p>		<p>www.evansonline.com</p>  <p><b>EVANS CONSOLES</b></p> <p>PROPRIETARY STATEMENT: THIS DRAWING AND DESIGN ARE THE PROPERTY OF EVANS CONSOLES AND MUST NOT BE USED OR REPRODUCED WITHOUT THE COMPANY'S WRITTEN PERMISSION</p>		<p>CLIENT AUTHORIZATION FOR PRODUCTION</p>		<p>CLIENT / PROJECT</p> <p>MARTIN CO 911</p>		<p>DRAWING</p> <p>ROOM LAYOUT - 3D VIEW</p>		<p>PRODUCT</p>		<p>FINISH</p>	
<p>DATE FEB 23, 2015</p>		<p>DRAWING NUMBER</p> <p>1 OF 6</p>		<p>REV</p> <p>A</p>		<p>SCALE</p> <p>NOT TO SCALE</p>		<p>EVANS PROJECT NUMBER</p>		<p>&lt;New Project&gt;</p>		<p>SIGNATURE / DATE</p>		<p>LOCATION: WILLIAMSTON, NORTH CAROLINA</p>			



THE ROOM DIMENSIONS AND LAYOUT SHOWN ON THIS DRAWING HAVE BEEN PROVIDED TO EVANS CONSOLES BY AN EVANS REPRESENTATIVE. THIS CONSOLE DESIGN ASSUMES A MINIMUM 34 3/4" CLEAR PATH OF TRAVEL INTO THE CONTROL ROOM. EVANS CONSOLES HAS NOT PERFORMED A SITE INSPECTION TO VERIFY ROOM DIMENSIONS OR FLOOR PLAN LAYOUT. WE STRONGLY SUGGEST THAT THE DIMENSIONS AND LAYOUT SHOWN ARE VERIFIED BY THE END USER PRIOR TO THE APPROVAL OF THIS DRAWING.

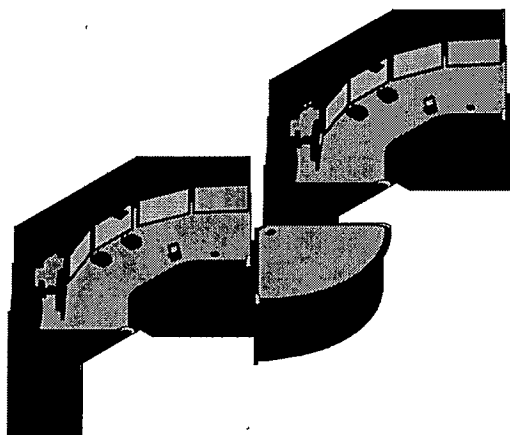
 <b>GREENGUARD</b> <small>PRODUCT CERTIFIED FOR LOW VOC EMISSIONS</small> <small>UL GREENGUARD</small>	 <small>REGISTERED TO ISO 9001:2008</small>	 <small>ISO 11064</small> <small>ERGONOMIC DESIGN OF CONTROL CENTERS</small>	 <b>EVANS CONSOLES</b> <small>PROPRIETARY STATEMENT: THIS DRAWING AND DESIGN ARE THE PROPERTY OF EVANS CONSOLES AND MUST NOT BE USED OR REPRODUCED WITHOUT THE COMPANY'S WRITTEN PERMISSION</small>	CLIENT AUTHORIZATION FOR PRODUCTION	CLIENT / PROJECT	DRAWING	PRODUCT	FINISH
					MARTIN CO 911	ROOM LAYOUT	DATE FEB 23, 2015	DRAWING NUMBER 2 OF 6
				SIGNATURE / DATE	LOCATION: WILLIAMSTON, NORTH CAROLINA	EVANS PROJECT NUMBER <b>&lt;New Project&gt;</b>		



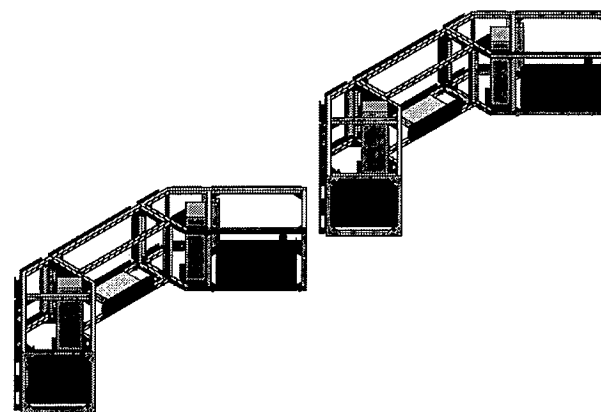


EQUIPMENT	
DESCRIPTION (UNITS: INCHES)	QTY
BASE SLIDE-OUT SHELF	
MAX EQ: 22W X 15D X 18H	4
ENVIROLINC COMPATIBLE FORCED AIR HEATER	2
ENVIROLINC CONTROL SYSTEM	2
NORTH AMERICA POWER BAR; 120V/15A, 6 OUTLETS, 15' POWER CORD	2
NORTH AMERICA POWER BAR; 120V/15A, 6 OUTLETS, 6' POWER CORD	6
SLATWALL MOSSO TASKLIGHT BY KONCEPT	2
SW SINGLE TIER MONITOR ARM	10
MAX EQ: 40LBS	

NOTE: LOCATION OF ALL WORKSURFACE SUPPORT ARMS, CONSOLE SUPPORT FEET AND WORKSURFACE SEAMS WILL BE DETERMINED UPON DETAILED DESIGN AND FABRICATION.



3D VIEW, QTY: 2



SKELETAL VIEW



PRODUCT CERTIFIED FOR  
LOW CHEMICAL EMISSIONS  
UL GREENGUARD  
UL 2818



REGISTERED TO  
ISO 9001:2008

ISO 11064  
ERGONOMIC DESIGN  
OF CONTROL CENTERS



ERGONOMIC DESIGN  
OF CONTROL CENTERS



EVA  
NSC  
ONSO  
LESSES  
TABLES  
RED WIRE  
TRANSFERRED  
ERGONOMIC  
DESIGN

www.evansonline.com

**EVANS  
CONSOLES**

PROPRIETARY STATEMENT:  
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REPRODUCED WITHOUT THE COMPANY'S WRITTEN  
PERMISSION

CLIENT AUTHORIZATION FOR PRODUCTION

SIGNATURE / DATE

CLIENT / PROJECT

MARTIN CO 911

LOCATION: WILLIAMSTON, NORTH CAROLINA

DRAWING

CALL TAKERS

PRODUCT  
Dispatch III

FINISH

DATE  
FEB 23, 2015

SCALE  
NOT TO SCALE

EVANS PROJECT NUMBER

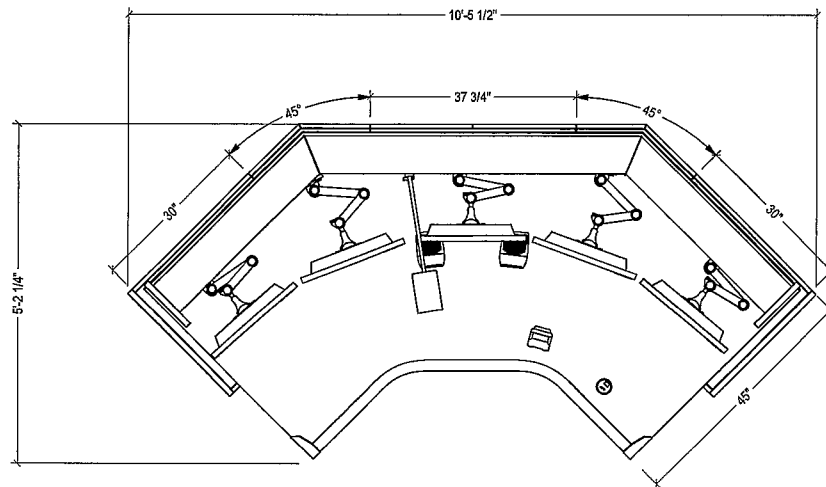
DRAWING NUMBER

3 OF 6

REV

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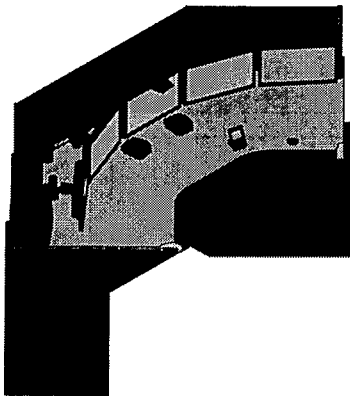
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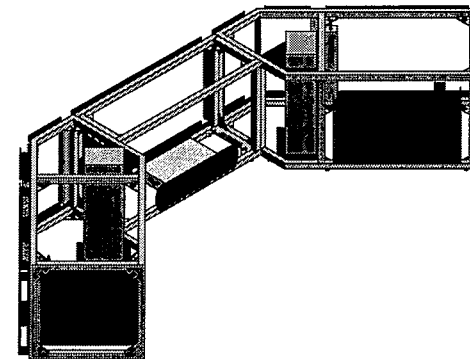
PLAN VIEW

EQUIPMENT		
DESCRIPTION (UNITS: INCHES)		QTY
BASE SLIDE-OUT SHELF MAX EQ: 22W X 15D X 18H		2
ENVIROLING COMPATIBLE FORCED AIR HEATER		1
ENVIROLING CONTROL SYSTEM		1
NORTH AMERICA POWER BAR; 120V/15A, 6 OUTLETS, 15' POWER CORD		1
NORTH AMERICA POWER BAR; 120V/15A, 6 OUTLETS, 6' POWER CORD		3
SLATWALL MOSSO TASKLIGHT BY KONCEPT		1
SW SINGLE TIER MONITOR ARM MAX EQ: 40LBS		5

NOTE: LOCATION OF ALL WORKSURFACE SUPPORT ARMS, CONSOLE SUPPORT FEET AND WORKSURFACE SEAMS WILL BE DETERMINED UPON DETAILED DESIGN AND FABRICATION.

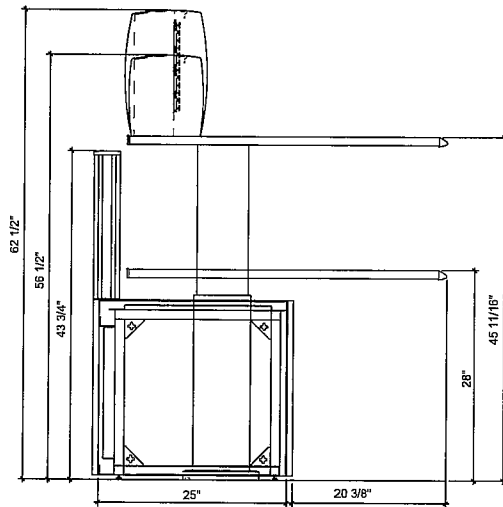


3D VIEW, QTY: 1

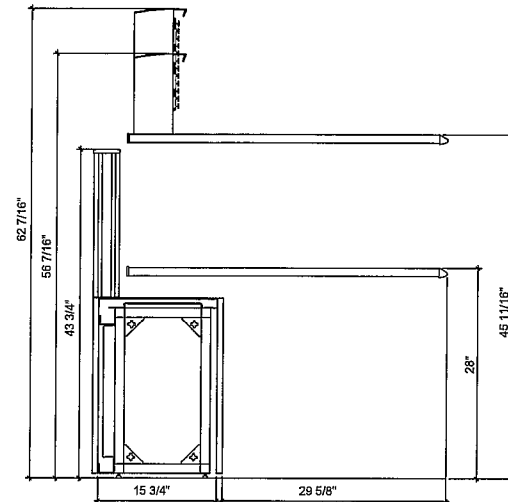


SKELETAL VIEW

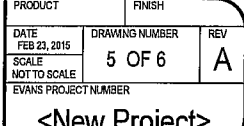
 <b>GREENGUARD</b> <small>PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS UL 2818</small>	 <small>REGISTERED TO ISO 9001:2008</small>	 <b>EVA</b> <small>NSC ONSO LESSES TAILED HCD 1998</small>	 <b>EVANS CONSOLES</b> <small>PROPRIETARY STATEMENT: THIS DRAWING AND DESIGN ARE THE PROPERTY OF EVANS CONSOLES AND MUST NOT BE USED OR REPRODUCED WITHOUT THE COMPANY'S WRITTEN PERMISSION</small>	CLIENT AUTHORIZATION FOR PRODUCTION	CLIENT / PROJECT	DRAWING	PRODUCT Dispatch III	FINISH
				SIGNATURE / DATE	LOCATION: WILLIAMSTON, NORTH CAROLINA	SUPERVISOR	DATE: FEB 23, 2015	DRAWING NUMBER
					MARTIN CO 911		4 OF 6	A
							SCALE: NOT TO SCALE EVANS PROJECT NUMBER <b>&lt;New Project&gt;</b>	



DISPATCH III  
FULL DEPTH - SINGLE WORKSURFACE



DISPATCH III  
REDUCED DEPTH - SINGLE WORKSURFACE



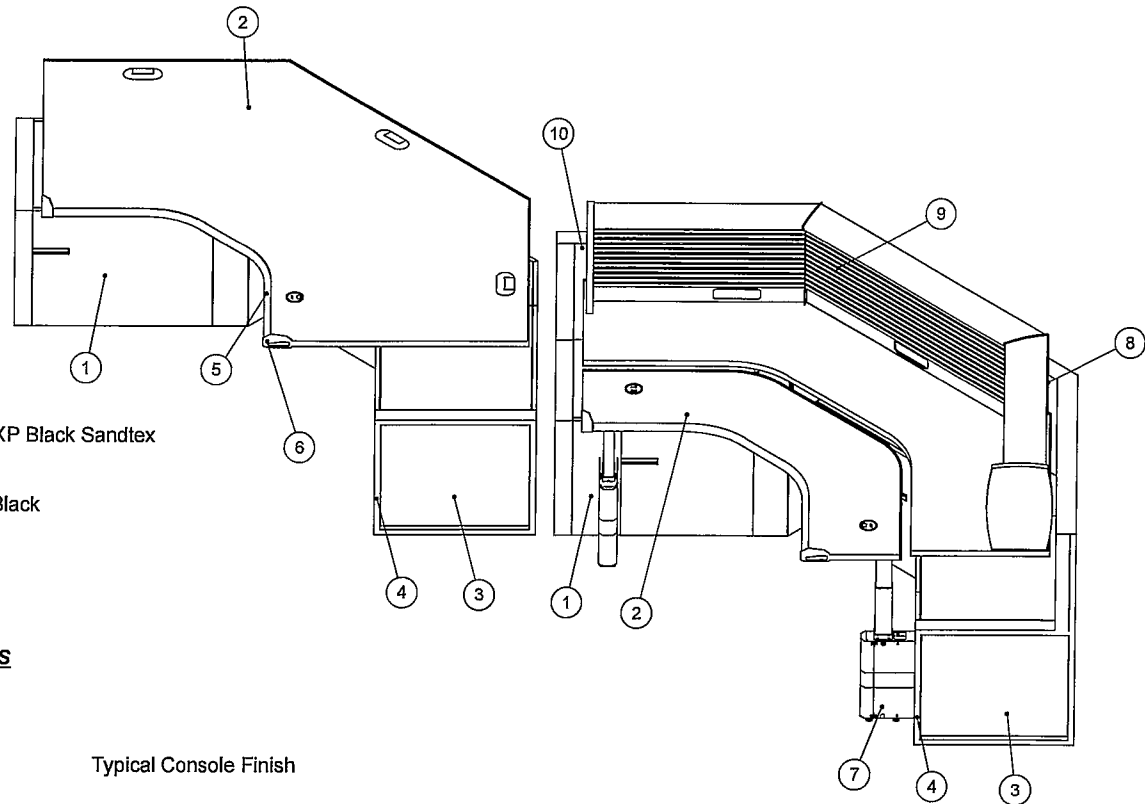
<New Project>

**DISPATCH™ III - High Pressure Laminate**  
**CONSOLE FINISH SCHEDULE**

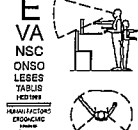
- 1.0 Front and Rear Enclosure Panels: Biltmore Cherry(7924K-07)
- 2.0 Worksurface: Canyon Zephyr(4842-60)
- 3.0 End Panel: Biltmore Cherry(7924K-07)
- 4.0 End Panel Upgrade Accent: N/A
- 5.0 Nosing - Injection Molded Urethane on Extruded Aluminum Profile: XP Black Sandtex
- 6.0 Nosing End Caps - Sheetmetal with PVC edge
- 7.0 Electric Support Legs (Rear): Silver , Electric Support Legs (Front): Black
- 8.0 Slatwall Rear Panels - Laminated: Biltmore Cherry(7924K-07)
- 9.0 Slatwall - Powder Coated: XP Black Sandtex(BK10-XSPP2815)
- 10.0 Fabric Partition Panels: N/A

**\* NOTE: ALL INTERIOR FACES OF PRESTIGE COLLECTION PANELS  
 ARE FINISHED WITH CLASSIC COLLECTION WILSONART BLACK**

**\*\* TYPICAL CONSOLES ARE SHOWN ONLY \*\***



Typical Console Finish



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CLIENT AUTHORIZATION FOR PRODUCTION  
 SIGNATURE / DATE

CLIENT / PROJECT  
 MARTIN CO 911  
 LOCATION: WILLIAMSTON, NORTH CAROLINA

DRAWING  
 DISPATCH III FINISH  
 SCHEDULE

PRODUCT		FINISH	
DATE FEB 23, 2015	DRAWING NUMBER 6 OF 6	REV A	
SCALE NOT TO SCALE			
EVANS PROJECT NUMBER <New Project>			



## Office Furniture Proposal

Quote#

Bill To: Martin County

Ship To: Martin County

Quoted By: Ray Tucker

Martin County

**Notes:**

Line	Qty	Part Number	Mfg	Part Description	List	Sell	Ext Sell
<b>Location: Dayroom</b>							
1	2	H80192	HON	Occasional Laminate Occasional Corner Table 24L 24W 20H LAM: Shaker Cherry .F LAM: Shaker Cherry F	\$ 353.00	\$ 196.67	\$ 393.34
2	2	823	HIG	Harmony Full Convertible Seat/Day Bed Wood Arm Caps for Day Bed/Sleeper Ct, WA Honey Cherry .HCY Seat Foam (Std) ~ Grade 3/COL .3 Destiny Capri .360-014	\$ 4,109.00	\$ 2,054.50	\$ 4,109.00
						<b>Subtotal:</b>	<b>\$ 4,502.34</b>
<b>Location: Kitchen</b>							
3	1	HMG1	HON	Motivate 4-Leg Stack Chair-Set/2 Arm: No Arm .N Standard Nylon Glide .E COLOR: Regatta .RE FRAME: Black .BLACK	\$ 492.00	\$ 274.11	\$ 274.11
4	1	HT-26B	HON	Hospitality Tbl 2" Dia. Sgl Colmn T-Base (2 per ctn) PAINT: Black .P	\$ 457.00	\$ 254.61	\$ 254.61
5	1	H1144	HON	Hospitality Tbl Rect Hosp Top w/ T-Mld Edg 30D x 60W Lam: Silver Mesh .B9 T-Mold: Black .P	\$ 337.00	\$ 187.76	\$ 187.76
						<b>Subtotal:</b>	<b>\$ 716.48</b>
<b>Location: Lobby</b>							
6	2	H80192	HON	Occasional Laminate Occasional Corner Table 24L 24W 20H LAM: Shaker Cherry .F LAM: Shaker Cherry F	\$ 353.00	\$ 196.67	\$ 393.34
7	1	HFAA01	HON	Invitation Lounge Arm Chair GRADE: IV UPHOLSTERY \$(4) UPH: Sockhop .HOP Color: Lawn 61 FRAME: Black .T Packaged in Carton .BC	\$ 1,507.00	\$ 839.61	\$ 839.61
8	1	HFAS03	HON	Invitation Lounge Sofa GRADE: IV UPHOLSTERY \$(4) UPH: Sockhop .HOP Color: Lawn 61 FRAME: Black .T Packaged in Carton .BC	\$ 2,633.00	\$ 1,466.96	\$ 1,466.96
						<b>Subtotal:</b>	<b>\$ 2,699.91</b>

**Location: Misc**

Line	Qty	Part Number	Mfg	Part Description	List	Sell	Ext Sell
9	6	H314	HON	316 Series Vertical File 4 Drawer Letter w/Lock	\$ 528.00	\$ 294.17	\$ 1,765.02
				Standard Random Key Lock .P			
				PAINT: Select Core Paint \$(CORE)			
				PAINT: Black .P			
<b>Subtotal</b>						<b>\$ 1,765.02</b>	

**Location: QA Office**

10	1	H105898L	HON	10500 Series 66Wx30Dx29-1/2H Sgl Ped Dsk LH B/B/F Rect Top	\$ 1,115.00	\$ 621.21	\$ 621.21
				LAM: Shaker Cherry .F			
				LAM: Shaker Cherry F			
11	1	H10570	HON	10500 Series Bridge 47W x 24D x 29-1/2H	\$ 328.00	\$ 182.74	\$ 182.74
				LAM: Shaker Cherry .F			
				LAM: Shaker Cherry F			
12	1	H10542	HON	10500 Series Cred Shell 66W x 24D x 29-1/2H	\$ 603.00	\$ 335.96	\$ 335.96
				LAM: Shaker Cherry .F			
				LAM: Shaker Cherry F			
13	1	H10504	HON	10500 Series Floorstanding Full Ht Ped F/F 15-5/8W x 22-3/4D	\$ 608.00	\$ 338.74	\$ 338.74
				LAM: Shaker Cherry .F			
14	1	HIGS6	HON	Ignition Guest/Multi-Purpose Chair Four-Leg Stacking	\$ 422.00	\$ 235.11	\$ 235.11
				Arm: Fixed .F			
				Glide .E			
				Back: Upholstered .U			
				GRADE: IV UPHOLSTERY \$(4)			
				UPH: Sockhop .HOP			
				Color: Lawn 61			
				FRAME: Black .T			
15	1	HW3	HON	Ignition Wk Mid-bck Pneu Syn tilt Bck Adj Tilt Seat Glid	\$ 778.00	\$ 433.46	\$ 433.46
				Arm: Height and Width Adj .A			
				CASTER: Hard .H			
				Back: Mesh Back .M			
				GRADE: IV UPHOLSTERY \$(4)			
				UPH: Sockhop .HOP			
				Color: Lawn 61			
				FRAME: Black .T			
				Base: Standard Black .SB			
<b>Subtotal</b>						<b>\$ 2,147.22</b>	

**Location: Supervisor**

16	1	HPC027L	HON	Park Ave 72Wx36Dx29H SP Desk Rectangle Top Left P/M/F	\$ 1,732.00	\$ 964.97	\$ 964.97
				Beaded Edge .B			
				Bar/Satin Nickel .C			
				LAM: Shaker Cherry .FF			
17	1	HPC402X	HON	Park Ave 48Wx24Dx29H Bridge ETA	\$ 431.00	\$ 240.13	\$ 240.13
				Beaded Edge .B			
				Satin Nickel .C			
				LAM: Shaker Cherry .FF			
18	1	HPC230R	HON	Park Ave 72Wx24Dx29H SP Credenza Right F/F Pedestal	\$ 1,494.00	\$ 832.37	\$ 832.37
				Beaded Edge .B			
				Bar/Satin Nickel .C			
				LAM: Shaker Cherry .FF			
19	1	HIGS6	HON	Ignition Guest/Multi-Purpose Chair Four-Leg Stacking	\$ 422.00	\$ 235.11	\$ 235.11
				Arm: Fixed .F			
				Glide .E			
				Back: Upholstered .U			
				GRADE: IV UPHOLSTERY \$(4)			
				UPH: Sockhop .HOP			
				Color: Lawn 61			
				FRAME: Black .T			
20	1	HW3	HON	Ignition Wk Mid-bck Pneu Syn tilt Bck Adj Tilt Seat Glid	\$ 778.00	\$ 433.46	\$ 433.46
				Arm: Height and Width Adj .A			
				CASTER: Hard .H			
				Back: Mesh Back .M			

Line	Qty	Part Number	Mfg	Part Description	List	Sell	Ext Sell
				GRADE: IV UPHOLSTERY	\$(4)		
				UPH: Sockhop	.HOP		
				Color: Lawn	61		
				FRAME: Black	.T		
				Base: Standard Black	.SB		

Subtotal: \$ 2,706.04

Tax 1 \$ 0.00 \$ 0.00 \$ 0.00

Installation Labor \$ 0.00 \$ 1,599.07 \$ 1,599.07

Project Total: \$ 16,136.08

Product is produced by the manufacturer to the above specifications. Once ordered it can not be changed, canceled or returned.

Project Authorization: \_\_\_\_\_ P.O. Number: \_\_\_\_\_

Credit Card Authorization

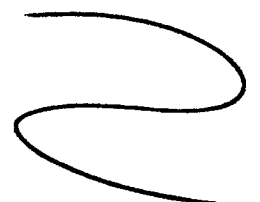
Credit Card#: \_\_\_\_\_ Exp Date: \_\_\_\_\_ VISA MC AMEX

Cardholder: \_\_\_\_\_ Date: \_\_\_\_\_

Signature: \_\_\_\_\_ P.O. Number: \_\_\_\_\_

Add \$ 300.<sup>00</sup> For

Chair Mats



Forrest Generator Services, Inc.

219 W. RAILROAD STREET  
PO BOX 508  
BETHEL, NC 27812

# Estimate

Date	Estimate #
2/2/2015	3327

Name / Address
MARTIN COUNTY GOVERNMENT 305 E. MAIN STREET WILLIAMSTON, NC 27892

			Project
Description	Qty	Cost	Total
(QUOTE FOR GENERATOR AND ATS FOR COURTHOUSE)			
STATELINE 140KW DIESEL GENERATOR, 500 GALLON	1	39,644.75	39,644.75T
SUB-BASE TANK, 200 AMP BREAKER			
ASCO 200 AMP W/ SERVICE DISCONNECT	1	4,407.00	4,407.00T
CONCRETE PAD FOR GENERATOR	1	750.00	750.00
CRANE TO SET GENERATOR	1	500.00	500.00
DEALER WARRANTY START-UP OF GENSET AND	1	200.00	200.00
BATTERY			
ANNUAL GENERATOR SERVICE - FIRST YEAR FREE		0.00	0.00
ELECTRICAN INSTALLATION - ESTIMATE	1	5,000.00	5,000.00
480V / 3 PHASE			
100% ON GENERATOR REQUIRED ON ORDER.			
THANK YOU FOR YOUR BUSINESS!		<b>Subtotal</b>	\$50,501.75
		<b>Sales Tax (6.75%)</b>	\$2,973.49
		<b>Total</b>	\$53,475.24



# North Carolina 911 Board Grant Application

## General Information

**Project Title** Backup PSAP Implementation

**Grant Fiscal Year - 2017**

**Project Director** William Kehler

**Project Contact** William Kehler

**Project Contact Title** Emergency Services Director

**Address** 60 East Court Street

Marion, NC 28752

**Phone** 828-652-3241

**Email** william.kehler@mcdowellgov.com

*Three types of grants are available, as described below. In the box following these descriptions, please select the Grant Type which most appropriately fits your request.*

- **Consolidation** - A consolidation project involves combining one or more PSAPs with a primary PSAP with an integrated management structure that serves the same populations and jurisdictions previously served by offering grant funding for both PSAP costs authorized under G.S. 143B-1406(e) and costs not authorized under G.S. 143B-1406(e) to include construction costs.
- **Individual PSAP Enhancement/Replacement** - the relocation costs of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.
- **Regional Initiative Enhancement/Replacement** - Regional initiatives are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such initiatives comprise projects involving two or more primary PSAPs or a primary PSAP with approved secondary PSAPs. Costs of relocation of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.

**Grant Type**    *Individual PSAP Enhancement/Replacement*

**PSAP Name**   *McDowell County 911 Center*

1.   ***Has the Revenue/Expenditure Report for FY15 been completed and approved by the NC 911 Board Fiscal staff for the applicant PSAP?***

YES

2.   ***Has the applicant PSAP submitted a plan and secured the means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP (backup plan)?***

YES

3.   ***If the answer to #2 above is yes, does the PSAP have the means to implement the plan before 7/1/16?***

NO

4.   ***If plan implementation will not occur before July 1, 2016, has an extension been requested?***

YES

---

# **Project Description**

***Required for all grant types, this should be a thorough, concise, and complete description of the proposed project.***

## **5. Please outline project goals and objectives.**

McDowell County is submitting this grant request to assist with implementation of our Backup PSAP plan. The plan was subitted in May of 2016 with an implementation date of March 2017. The goal of this project is to construct a "Geo-Diverse" 911 system in McDowell which includes the primary and secondary PSAP. McDowell County is proposing to utilize exisiting space within a County owned building to construct a Backup PSAP. Proposed equipment for the Backup PSAP is the minimum amount to meet the required need at this time.

## **6. Please provide an implementation strategy and work plan, including a timeline.**

McDowell County submitted our Backup Plan to the NC 911 Board on May 16th. This included equipment quotes along with drawings and all other requested items. Project timeline includes the following. June 2016 - The McDowell County Board of Commissioners are presented an update on this project. July – August – September 2016 - Building enhancements and modifications are made to accomodate 911 equipment and Backup Operations. August - Sept. 2016 - Equipment purchases are made per McDowell County purchasing policies which are compliant with NCGS. October 2016 - Backup Facility is ready for equipment install. November 2016 - January 2017, equipment is installed in Backup PSAP by approved vendors. February 2017 - testing og "Geo-Diverse" system is performed. March 2017 - Go live date with Backup PSAP operations. The project will be managed by the McDowell County Emergency Services Director with techincal support from various County departments. Financial oversight of this project will be performed by the McDowell County Finance Director.

## **7. Please identify the interface or compatibility between existing equipment and/or software and that which you intend to purchase.**

The proposed equipment is completely compatible with exisiting equipment at the Primary PSAP. Frontier and Southern Software have speced the required equipment that will create a "Geo-Diverse System" for McDowell County.

## Statement of Need

***Required for all grant types, this statement should reference the relationship of the grant project to NCGS §143b-1407(b) and the current funding priorities established by the Grant Policy and Procedures and include evidence of any financial need.***

**8. Please indicate how your PSAP or group of PSAPs meets the statutory criterion of serving a rural or high cost area.**

McDowell County is designated as a "Tier 1" distressed rural county located in Western North Carolina. McDowell County serves a rural population of 45,000 with over 68,000 acres of National Forest land.

**9. Please identify funding priorities, their impact on operational services, and consequences of not receiving funding.**

In 2014 with a change in ES administration, McDowell County created an equipment replacement plan and performed multiple upgrades to existing equipment which was in dire need of replacement. McDowell's fund balance was over \$350,000 which has since been utilized to make upgrades at the Primary PSAP. The fund balance is expected to be under \$100,000 in FY17. McDowell County plans to file for a funding reconsideration application in the first quarter of FY17. McDowell County sits in a unique service territory for phone providers. Utilizing existing County space for a Backup PSAP, this arrangement best fits the need of McDowell County from a service delivery standpoint. Further evidence of the validity of this decision is based upon service territory of primary phone providers and a review of surrounding counties carriers. We are filing this grant request based upon the financial need of McDowell County, cost of Backup PSAP equipment, and the projected shortfall in FY17 of 911 funding for McDowell.

**10. Please provide a copy of your PSAP's long-term or strategic technology plan and identify how the project fits within it.**

Equipment / Technology Plan is attached. The creation of a Backup PSAP adheres to NCGS requirements as well as the Center's plan for technology / equipment improvements.

**11. Please identify the likelihood of completing the project utilizing your 911 fund balance and the percentage of grant funding being requested in relation to total project costs.**

McDowell's fund balance is projected to be below \$100,000 at the start of FY17 due to major equipment upgrades that have been completed in FY 15 & FY16. Without assistance from this grant the 911 fund balance will not contain the amount of funds needed to proceed with this project without financing the entire amount. McDowell County is requesting \$193,400.00 to assist with purchasing eligible equipment needed to implement the Backup Plan. The requested amount is 51% of the total cost of implementing the Backup Plan which is \$381,460.82

# ***Regional Initiative Enhancement/Replacement Project***

***Required for all Regional Initiative Enhancement/Replacement project types.***

***Regional initiative enhancement/replacement projects are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such projects may involve two or more primary PSAPs.***

## **12. What is the relationship of participating PSAPs to the initiative? Provide MOUs between PSAPs identifying each participant PSAP's responsibilities to the project.**

McDowell County has a signed MOU in place to be the Backup PSAP for Mitchell County Communications. McDowell County will be the answering point for 911 calls should the primary PSAP in Mitchell County experience a failure.

## **13. Identify intended collaborative efforts between participating PSAPs.**

Mitchell County 911 serves as McDowell's interim backup solution during our transition phase from primary to secondary PSAP. The Backup PSAP in McDowell will provide an answering point and host an employee of Mitchell County 911 during a failure as spelled out in the signed MOU

## **14. Identify how resource sharing will take place.**

Click or tap here to enter text.

## **15. Indicate how the initiative impacts the operational or strategic plans of the participating agencies.**

Click or tap here to enter text.

**NOTE:** The following section on “Consolidation Project Plan” is **ONLY** required if your type of grant is a “Consolidation”. If your project **IS NOT** a Consolidation, proceed to question # 23 to complete the grant application.

**16. Indicate how a consolidation would take place and improve service**

Click or tap here to enter text.

**17. Indicate how the consolidated PSAP should be organized and staffed**

Click or tap here to enter text.

**18. Indicate what services the consolidated PSAP should perform**

Click or tap here to enter text.

**19. Indicate how consolidated PSAP policies should be made and changed**

Click or tap here to enter text.

**20. Indicate how the consolidated PSAP should be funded exclusive of grant funding**

Click or tap here to enter text.

**21. Indicate what changes or improvements should be made to inter-communications among the local governments participating in the consolidation in order to better support operations.**

Click or tap here to enter text.

**22. Discuss sustainability of the consolidation project during the proposed term of the project, and for the foreseeable future.**

Click or tap here to enter text.



## FINANCIAL DATA

**23. Current 911 Fund Balance**

\$100,897.45

**24. Amount Requested**

\$193,400.00

**25. Total Project Cost**

\$381,460.82

## Budget and Budget Narrative

*A budget and budget narrative must be supplied for all types of projects, as well as a copy of the applicant agency's approved FY 2016 PSAP budget.*

### **26. List planned expenditures**

Financial Documentation Tool Attached - Details all planned expenditures.

### **27. Provide a budget narrative that briefly explains the reason for each requested budget item.**

Budget Narrative Attached

### **28. State how you will follow applicable procurement law, rules, and policies.**

McDowell County has strict purchasing policies that adhere to NCGS pertaining to purchasing of equipment and supplies. All purchases will be in accordance of state and local policy.

### **29. If the project will have ongoing expenses, such as monthly recurring charges, describe plans and specific sources for future/long-term funding and demonstrate how the project will be sustained in the future without additional 911 Grant Program funding.**

Backup operations will have ongoing monthly expenses that are 911 fund eligible which will be paid for with allotted 911 revenue. These recurring charges are detailed out on the Backup Financial Documentation Spreadsheet. McDowell County Finance along with 911 Administrators have performed a full detailed assessment of charges and contracts with each vendor to ensure efficiency of operations and all available cost cutting measures have been performed.



## Evaluation

***All applications must include evaluation information. The final report shall include an evaluation demonstrating that the equipment or services funded by the grant have been purchased, installed/implemented, and are performing as expected.***

**30. Explain how your evaluation will measure the achievement of the goals and objectives identified in the Project Description with a timeline for meeting short, intermediate, and long term goals.**

After the completion of this project a detailed report will be sent to the NC 911 Board which details the completion of this project, an overview of all testing performed, and confirming that a full backup center is fully operational for McDowell County.

**31. Describe how evaluations will be conducted, including performance parameters which must be met in order to meet acceptance criteria.**

McDowell County 911 Staff will test backup operations including fully transitioning into the backup center on a quarterly basis. This will ensure training of staff on the backup equipment and also ensure that equipment is fully functional and in good working order.

**32. Identify how data will be collected and presented**

Data pertaining to the Backup Center will be collected by the 911 Manager and presented to the ES Director which will be presented quarterly at the McDowell County 911 Advisory Committee meeting and made available to the NC 911 Board as requested. A summary of data markers to be collected include dates / times of backup operations and training, timeline of transition from primary to backup, calls received at backup center along with quality data markers for call taking within the backup center.

## **McDowell County 911 Communications**

### **NC 911 Board Grant**

#### **Budget Narrative**

McDowell County 911 is oposing to purchase surcharge eligible equipment to fully implement a Backup PSAP in McDowell County by March of 2017. Purchasing of this equipment will create a "Geo Diverse" backup system in McDowell which meets the specific needs of our community in relation to unique service factors surrounding telephone carriers. The facility being utilized is owned by McDowell County and is 2.9 miles from the primary PSAP. The Backup PSAP will be protected by emergency generator power utilizing existing County owned generator with an automatic transfer switch being install at the site. The Backup site will be protected by a Eaton UPS system. The backup PSAP is proposed to have three Airbus phone stations complete with workstation PC's, housed at a basic desk and chair setup. McDowell County is a consolidated center responsible for dispatching all disciplines within McDowell County. The Backup PSAP will dispatch all departments utilizing dual band mobile radios affixed to power supplies located at each of the three dispatch terminals. Radio communication transmitted to and from the Backup will be recorded utilizing an existing recorder owned by McDowell County. Three computer aided dispatch terminals will be installed at the Backup PSAP. The Neverfail CAD software program will allow for constant connectivity with between the two PSAP's, transmitting date over a 50M fiber link provided by Broadplex. A new CAD server will be installed at the Backup PSAPallowing for data storage and a "B-Side" server for constant CAD operations. McDowell County 911 will follow all procurement policies as outlined by local policies and NCGS. McDowell County has secured all quotes for the Backup PSAP and is ready to proceed with project implementation.

**McDowell County Emergency Services**

**911 Communications**

**Equipment Replacement Plan**

2015	<ul style="list-style-type: none"><li>• Airbus Phone System</li><li>• Text to 911 Consoles</li><li>• Recorder Replacement</li><li>• 911 Activity Monitor</li><li>• Radio Dispatch Console Replacement</li><li>• CAD Server</li></ul>
2016	<ul style="list-style-type: none"><li>• Back PSAP Plan / Equipment Planning</li><li>• Printer Replacement</li></ul>
2017	<ul style="list-style-type: none"><li>• Backup PSAP / Implementation</li><li>• Replace CAD Workstations (Primary)</li></ul>
2018	<ul style="list-style-type: none"><li>• Initiate Process of NG911 Upgrades</li><li>• 911 Furniture / Chairs</li><li>• Text to 911 PC Replacements (Primary)</li></ul>
2019	<ul style="list-style-type: none"><li>• UPS Replacement (Primary PSAP)</li><li>• Telephone Replacement (Both PSAP's)</li></ul>
2020	<ul style="list-style-type: none"><li>• Recorder Replacement (Backup PSAP)</li><li>• Printer Replacement</li><li>• Long Term Building Plan Evaluation</li><li>• Chairs</li></ul>
2021	<ul style="list-style-type: none"><li>• Recorder Replacement (Primary PSAP)</li><li>• Text to 911 PC Replacements (Both PSAP)</li></ul>
2022	<ul style="list-style-type: none"><li>• CAD Server Replacement (Primary &amp; Sec.)</li><li>• Chairs</li><li>• Printer</li></ul>
2023	
2024	<ul style="list-style-type: none"><li>• Radio Dispatch Consoles (Both PSAP's)</li><li>• Chairs</li></ul>
2025	<ul style="list-style-type: none"><li>• Phone System Replacement (Both PSAP's)</li></ul>

## Backup PSAP Financial Documentation

## McDowell County 911 Communications

## Non-Eligible Costs

### Surcharge Eligible Expenses

	Month	One-Time Costs		Recurring Costs Annual		Recurring Costs Monthly		COMMENTS
Product/Service	Cost	Product/Service	Cost	Product/Service	Cost	Product/Service	Cost	
Utilities	\$ 350.00			Frontier / Airbus (3) position	\$80,924.00			Frontier option reoccurs for 3 years.
Cable	\$ 75.00	PC Workstations with screens	\$3,825.00	(36 month financed option)				
		Furniture (Desks / Chairs)	\$4,180.00					
		CAD Neverfail Software	\$4,995.00	Neverfail Maint Annual	\$1,000.00			
		CAD Neverfail Install	\$7,750.00					
		Wireless Msg CAD	\$1,000.00					
		Dual Band Desktop Radios (3)	\$26,305.96					
		Radio Install	\$9,840.21					
		Activity Monitor	\$800.00					
		Text to 911 Station	\$13,952.07					
		Eaton UPS / ATS Switch	\$34,900.00	UPS Annual Maint	\$5,380.00			See mobile generator policy
				Annual Maint Generator	\$1,270.00			
		Recorder Install (existing equip)	\$2,290.38					
		Fiber - Build out	\$2,350.00			50 M Fiber Service	\$1,056.00	50 M service dedicated to 911 Backup
						CAD Printer (lease)	\$75.00	
						56 K Frontier Circuit	\$275.23	
						(3) Administrative Lines	\$148.26	Includes charge for call forward deluxe as noted in plan.
		CAD Server / Equip & Install	\$26,500.00					
	\$ 425.00		\$138,688.62		\$88,574.00		\$1,554.49	

# North Carolina 911 Board Grant Application

## General Information

**Project Title** Mitchell County Regional Backup Center Initiative

**Grant Fiscal Year - 2017**

**Project Director** Charles Vines

**Project Contact** Stephanie Wiseman

**Project Contact Title** Communications Manager

**Address** Mitchell County Central Communications

47 Crimson Laurel Circle, Suite 6

Bakersville, NC 28705

**Phone** 828-688-9110

**Email** stef911us@yahoo.com

*Three types of grants are available, as described below. In the box following these descriptions, please select the Grant Type which most appropriately fits your request.*

- **Consolidation** - A consolidation project involves combining one or more PSAPs with a primary PSAP with an integrated management structure that serves the same populations and jurisdictions previously served by offering grant funding for both PSAP costs authorized under G.S. 143B-1406(e) and costs not authorized under G.S. 143B-1406(e) to include construction costs.
- **Individual PSAP Enhancement/Replacement** - the relocation costs of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.
- **Regional Initiative Enhancement/Replacement** - Regional initiatives are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such initiatives comprise projects involving two or more primary PSAPs or a primary PSAP with approved secondary PSAPs. Costs of relocation of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.

**Grant Type**    *Regional Initiative Enhancement/Replacement*

**PSAP Name**    *Mitchell County Central Communications*

1.    ***Has the Revenue/Expenditure Report for FY15 been completed and approved by the NC 911 Board Fiscal staff for the applicant PSAP?***

YES

2.    ***Has the applicant PSAP submitted a plan and secured the means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP (backup plan)?***

YES

3.    ***If the answer to #2 above is yes, does the PSAP have the means to implement the plan before 7/1/16?***

NO

4.    ***If plan implementation will not occur before July 1, 2016, has an extension been requested?***

YES

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# Project Description

***Required for all grant types, this should be a thorough, concise, and complete description of the proposed project.***

## **5. Please outline project goals and objectives.**

The goal of the Mitchell County Central Communications (MCCC) project is to replace the existing communications facility and create a state of the art E9-1-1 hardened facility to serve the citizens and visitors of Mitchell County. A sub-goal is to serve as a Regional Backup Center (RBC) for Avery, McDowell and Yancey counties. Space will be provisioned in the 9-1-1 center to allow other counties in the region to join the backup center if they so desire at a later date.

Goal: Construct new, state-of-the-art E9-1-1 facility to serve as a primary PSAP for Mitchell County and to serve as a Regional Backup Center for Avery, McDowell and Yancey counties.

- Objective 1: Relocate from the current facility into a new, state-of-the-art 9-1-1 PSAP that is appropriately designed and equipped to meet both current and future needs, including applicable standards as defined by the North Carolina 911 Board. This requires construction of a facility on land owned by the County, which has the potential for 9-1-1 PSAP construction.
- Objective 2: Relocate away from Cane Creek that flooded in 1998 due to torrential rains and destroyed many roads, homes, and businesses, resulting in the declaration of Bakersville as a disaster area.
- Objective 3: Update and/or replace equipment and software to support emerging NG9-1-1 technologies; especially any equipment that has reached “end-of-life,” is not supported by vendors, or is technically outdated.
- Objective 4: Provide a 9-1-1 facility that offers properly designed functional areas that address operational, personnel, safety, security, and storage needs of MCCC.
- Objective 5: Provide a 9-1-1 facility that allows for future expansion needs, can support operations during situations that require overflow staffing, and support neighboring counties when conditions merit the assistance of Mitchell County.
- Objective 6: Provide mutual support, redundancy, and continuity of operations through participation in a Regional Backup Center initiative involving Avery, McDowell, and Yancey counties.

The MCCC, a civilian operation, provides emergency and non-emergency call processing and dispatching for the Mitchell County Sheriff's Office, Spruce Pine Police Department, Bakersville Police Department, Bradshaw Fire Department, Buladean Fire Department, Fork Mountain Fire/Rescue, Bakersville Fire/Rescue, Ledger Fire Department, Spruce Pine Fire/Rescue,

Parkway Fire/Rescue, Mitchell County EMS and local North Carolina Forest Service. Equipment that is being used was procured with grant assistance in 2009 and includes VisionAIR CAD, Zetron radio, telephony, GeoConex SALI dispatch mapping, and XYBIX consoles.

MCCC is currently housed in a modular-type building that was formerly a daycare facility; the facility was brought in after the flood of 1998 devastated the town of Bakersville. After the building was declared unusable by the daycare, the building was later repurposed for the emergency operations center (EOC) and communications center. The building was never designed as a hardened public safety-grade facility nor was it designed to adequately protect its occupants during severe weather events such as tornadoes or hurricanes. The EOC has since been relocated to a more secure facility and the only tenant remaining is the MCCC. Its property is immediately adjacent to residential properties, which creates a number of security issues for telecommunicators including taking outside breaks.

MCCC staff have done a good job keeping the center operational for many years. Although the terrain was improved after the 1998 floods, the property still remains at risk for future floods. However, the building has reached the end of its useful life, without extensive and costly repairs. The building was designed for classrooms for preschool children and is not adequate to house a mission critical facility such as a 9-1-1 center. The equipment room that is being used to house the servers has suffered water damage due to roof leaks, which has resulted in expensive repairs. There is no separate heating, ventilation and air conditioning (HVAC) system for the operations room and the server room. As a result, keeping the equipment cool in the server room creates an undesirable temperature in the operations room. There are days that the HVAC system fails and the temperature in the server room and operations room can be in excess of 85 degrees, which jeopardizes equipment and the ability to provide emergency services to Mitchell County. All training is currently done in the communications center dispatch operations room, which is a distraction to day-to-day operations.

Communications staff do not have direct access to the kitchen and restroom and have to leave the communications room to access these areas, creating delays in handling radio and telephone traffic. Other concerns include exterior residential doors and windows with residential locks, rest room facilities without doors and in need of repair, poor cabling and electrical wiring, and evidence of multiple prior roof leaks; all of which make conditions unsafe and less than desirable.

A new hardened communications facility will be designed functionally, allow for future technology growth, support regional projects and partnerships, have an adequate training area with state-of-the-art equipment and comply with national standards for communications facilities (e.g., National Fire Protection Association [NFPA] 1221, Association of Public-Safety Communications Officials-International [APCO], and the National Emergency Number Association [NENA]), as well as comply with 9-1-1 Board requirements. A new public safety-grade communications facility would be secure and safe for the staff and equipment and will provide citizens and responders a reliable 9-1-1 system.



**6. Please provide an implementation strategy and work plan, including a timeline.**

The implementation strategy for Mitchell County involves a designed system framework and will continue to enlist the support of Avery, McDowell and Yancey counties; vendor support; and that of Mission Critical Partners. Mitchell County with the assistance of Mission Critical Partners will initiate a work plan that includes the high-level steps below:

- Site evaluation and preparation
- Facility design and construction (including a communications tower)
- Technology systems design, procurement, installation, testing, and training
- Functional testing between the counties involved in the regional backup initiative
- Transition planning
- Commissioning
- Migration to the new facility
- Final testing between the new Mitchell County facility and the counties involved in the regional backup initiative
- Cutover of Mitchell County to new facility
- Acceptance of facility and systems
- Project close out

There are many components to this project. Some must be completed in a logical order, while other components may take place in parallel.

The Mitchell County project proposes to build a new 9-1-1 center on existing County-owned property. The new facility would be equipped with six new 9-1-1 answering/dispatch positions to accommodate Mitchell County and Avery, McDowell and Yancey counties in a backup scenario; all with new 9-1-1 customer premise equipment (CPE), new workstation furniture, new CAD and mapping systems (monitors and servers), as well as new radio console equipment, server(s), antennas, and a tower. A recorder system will also be installed. While the new facility is under construction, the existing center will continue to operate as normal.

Equipment and technology will be procured prior to substantial completion of the facility, based on respective lead times. Once the facility is complete, equipment will be installed and tested. Once occupancy is granted, Mitchell County personnel will relocate to the new facility. The estimated timeline for the overall process is 24-30 months; any delays may push the project to 36 months.

**7. Please identify the interface or compatibility between existing equipment and/or software and that which you intend to purchase.**

Minimal interface or compatibility issues are anticipated during the migration process. Mitchell County will be migrating to a new facility, which will be equipped with new equipment, and decommissioning the current legacy PSAP. Appropriate measures will be taken to ensure minimal interruption of service during the cutover segment of the project. Mitchell County commissioned a PSAP Assessment by Mission Critical Partners to evaluate the technology used at Avery, McDowell and Yancey counties. This assures the ability of Mitchell County to acquire compatible equipment and software for participating counties. Mitchell County will coordinate with vendors and network providers to create the necessary interfaces for successful 9-1-1 backup for participating counties.

During this project, it is anticipated all equipment will be replaced, or enhanced by updating to the latest version. Radio channel capability will be expanded to enable the Mitchell County PSAP to serve as a backup for Avery, McDowell, and Yancey counties.

Additionally, capabilities will be enhanced by adding workstations (administrative and dispatch) that will be outfitted with the necessary CPE to process additional workload in support of Avery, McDowell, and Yancey counties, when needed, and to allow for expansion of internal operating capabilities during call overload circumstances. All four counties will operate from the same CPE platforms, which affords familiarity to end users, and eases system maintenance and upgrade management.

## Statement of Need

***Required for all grant types, this statement should reference the relationship of the grant project to NCGS §143b-1407(b) and the current funding priorities established by the Grant Policy and Procedures and include evidence of any financial need.***

### **8. Please indicate how your PSAP or group of PSAPs meets the statutory criterion of serving a rural or high cost area.**

Mitchell County qualifies under statutory criterion as serving within a rural area. G.S.53A-37 (5) defines a rural area as:

- “Any county that does not include within its boundaries a city, as defined by G.S. 160A-1(2), with a population greater than 1% of the total population of North Carolina.”

Mitchell County’s largest incorporated area is the town of Spruce Pine, with a population of 2,284 according to 2014 estimates provided by the Office of State Budget and Management, State Demographer’s division. North Carolina’s 2013 population estimate from the Office of State Budget and Management is 9,861,952, thus 1 percent of North Carolina’s population equals 98,619.

Mitchell County is a Tier 2 County as defined by the NC Rural Center in the 2016 Development Tier Rankings. According to the North Carolina Rural Center website, Mitchell County moved up from a Tier One in 2015 to Tier Two. From 2007 to 2014, Mitchell County held a Tier One designation. Mitchell County ranked number 18 in the 2014 development tiers calculations and now ranks 28, based largely on: 1) a much-improved population growth ranking (number 7 in the 2014 Tiers to number 18 in the 2015 Tiers) and 2) a much-improved unemployment rate ranking (number 9 in the 2014 Tiers to number 22 in the 2015 Tiers). It should be noted that while Mitchell and Avery are Tier Two counties; McDowell and Yancey are Tier 1 counties.

Mitchell County is located in the Blue Ridge Mountains in Western North Carolina. It is approximately 50 miles northeast of Asheville, North Carolina, and 25 miles south of Johnson City, Tennessee. Mitchell County's total land area is 220 square miles. The county seat is Bakersville, with a population of approximately 400, and the largest town, Spruce Pine, is located in the southern portion of the county with an approximate population of 2,200.

### **9. Please identify funding priorities, their impact on operational services, and consequences of not receiving funding.**

§143B-1407(b), PSAP Grant and Statewide 911 Projects Grant Application, states, “A PSAP may apply to the 911 Board for a grant from the PSAP Grant and Statewide 911 Projects Account. An application must be submitted in the manner prescribed by the 911 Board. The 911 Board may approve a grant application and enter into a grant agreement with a PSAP if it determines all of the following:

- (1) The costs estimated in the application are reasonable and have been or will be incurred for the purpose of promoting a cost-effective and efficient 911 system.
- (2) The expenses to be incurred by the applicant are consistent with the 911 State Plan.
- (3) There are sufficient funds available in the fiscal year in which the grant funds will be distributed.
- (4) The costs for consolidating one or more PSAPs with a primary PSAP, the relocation costs of

primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(d) and construction costs.

Funding priorities for this grant request include the construction of a new facility, relocation from the current facility into the new, state-of-the-art, 9-1-1 PSAP that is appropriately designed and equipped to meet both current and future needs. The facility will also serve Avery, McDowell, and Yancey counties as a regional backup center.

MCCC is currently housed in a modular-type building that was formerly a daycare facility brought in after the flood of 1998 devastated the town of Bakersville. The building was later repurposed for the EOC and communications center. The building presents the challenges and risks identified below. Additional issues are presented in Mission Critical Partners' assessment report, as are photographs.

- The building was never designed as a hardened public safety-grade building. nor was it designed to adequately protect its occupants during severe weather events such as tornadoes or hurricanes.
- Its property is immediately adjacent to residential properties, which creates a number of security issues for telecommunicators including taking outside breaks.
- The equipment room that is being used to house the servers has suffered water damage due to roof leaks, which resulted in expensive repairs.
- There is no separate HVAC system for the operations room and the server room. As a result, keeping the equipment cool in the server room creates an undesirable temperature in the operations room.
- Exterior doors and windows are residential-type products with residential locks; they do not meet the appropriate security requirements for a public safety-grade building.
- Restroom facilities are without doors and in need of repair.
- Cane Creek flooded in 1998 due to torrential rains and destroyed many roads, homes, and businesses, resulting in the declaration of Bakersville as a disaster area.

A second priority is to update and/or replace equipment and software to support emerging NG9-1-1 technologies; especially any equipment that has reached "end-of-life," is not supported by vendors, or is technically outdated.

If the funding is not received, Mitchell County will be forced to operate in a non-hardened non-public safety-grade building, which is end-of-life and would have the potential to impact emergency services. All other grant sources have been exhausted and due to budget constraints, Mitchell County cannot afford to pursue this type of project.

**10. Please provide a copy of your PSAP's long-term or strategic technology plan and identify how the project fits within it.**

Included with this application is a copy of MCCC Long Term Strategic/Technology Plan as Attachment 2. The goal of the agency as demonstrated in the plan is to provide advanced technology and an efficient operation which is consistent with the intent of the grant program. One component of achieving an efficient operation is to provide redundancy for 9-1-1 services. "Man-made and Natural Disasters drive the need for redundancy and security of all systems to be a top priority in the 911 Communications environment." The communications center desires to create a regional backup center for surrounding counties and will work with Mission Critical Partners to establish a plan that is consistent with NC 911 Board proposed standards. In order to provide advanced technology, Mitchell County plans the "upgrading of computer hardware on a schedule

not to exceed 3 years for server and 2 years for workstations.” In addition, Mitchell County’s plan calls for all upgrades to “any system within the Mitchell County Central Communications Facility” to adhere to applicable standards and be Internet Protocol (IP)-compliant. This fits with the objective of the grant application to update and/or replace equipment and software to support emerging NG9-1-1 technologies. There are several items within the plan, both operationally and technology-based, that are equally consistent with this grant initiative.

**11. Please identify the likelihood of completing the project utilizing your 911 fund balance and the percentage of grant funding being requested in relation to total project costs.**

This initiative cannot and will not be completed without grant funding; it is almost impossible that Mitchell County could fund this project under current economic realities. Given the limited funds available at the County level, and the budgetary challenges that exist within economically stressed counties, it is unlikely that alternative funding sources could be accessed that would be any more appropriate. Mitchell County does not have the tax base to invest in a new 9-1-1 facility.

Mitchell County’s 911 Fund Balance Report, dated February 26, 2016, indicates that the balance is \$994,516.43. In 2015-2106, Mitchell County received \$ 221,977 in support of 9-1-1. Mitchell County received notice that 2016-2017 funding will be \$69,169.94. Supporting documentation can be found as Attachment 3. Fund balances were not received for Avery, McDowell, or Yancey counties.

9-1-1 funds must be expended on eligible legislated costs. As the counties are allowed to retain 20 percent of the received funds, the remaining funding in Mitchell County does not exist to meet the goals and objectives identified for this project.

Project costs are estimated at \$4,793,112.50. Mitchell County respectfully requests approximately 87.5 percent funding through the grant program.

## ***Regional Initiative Enhancement/Replacement Project***

***Required for all Regional Initiative Enhancement/Replacement project types. Regional initiative enhancement/replacement projects are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such projects may involve two or more primary PSAPs.***

### **12. What is the relationship of participating PSAPs to the initiative? Provide MOUs between PSAPs identifying each participant PSAP's responsibilities to the project.**

Mitchell County will pursue a grant from the NC 911 Board for the construction of a new, state-of-the-art E9-1-1 facility to serve as a primary PSAP for Mitchell County and to serve as a regional backup center for Avery, McDowell, and Yancey counties. Mitchell County will be the primary applicant.

Mitchell County will provide the backbone structure to provide important and necessary services such as facility maintenance, budget/finance, legal, risk management, and procurement. Mitchell County will be fully responsible for the operational cost of the Mitchell County Central Communications PSAP.

Each participating county “agrees to finance only the annual maintenance cost specific to ... the provision of the ... call taking and dispatching equipment to be placed at the Mitchell County Regional Backup PSAP.”

Resolutions supporting this initiative can be found as Attachment 1.

### **13. Identify intended collaborative efforts between participating PSAPs.**

Mitchell County and Avery, McDowell, and Yancey counties will work together and with local, state and federal agencies in order to maximize regional interoperability and economies of scale, grant funding, and other means to reduce costs for equipment and operations.

Uniform standards for a multi-jurisdictional CAD system with expandable ports for multiple interfaces will be developed in concert with the agencies participating in the initiative.

The parties may engage in cooperative purchasing activities, including, but not limited to, use of North Carolina State Contracts.

Mitchell County also intends to work with the NC 911 Board, Mission Critical Partners, and vendors to ensure the success of this effort.

### **14. Identify how resource sharing will take place.**

The Mitchell County 9-1-1 Manager and all employees of the Mitchell County Central Communications Center will continue to be Mitchell County employees, subject to all Mitchell County personnel policies and procedures.

Based on the respective 9-1-1 call volumes in the counties, Mitchell County 9-1-1 staff can handle the increased call volume for a short while until Avery, McDowell, or Yancey county staff arrive at the center to handle the calls.

Equipment, technology, and other resources will be utilized in a manner that provides efficiency and financial prudence. Design considerations will take this into account and resource sharing will be applied where it is practical to do so.

**15. Indicate how the initiative impacts the operational or strategic plans of the participating agencies.**

The primary impact resulting from this initiative will be to drastically enhance the redundancy afforded to participating agencies in the most economical manner possible, and yet enable each agency to operate in a normal capacity on a routine basis. Other beneficial impacts are expected that extend to operational considerations, whereby participating agencies can establish training that is appropriate for the capabilities of this regional matrix, allowing their staff to be cross-trained to operate from the regional PSAP in a seamless manner. The regional partnership could provide the avenue to increase call processing capability on a regional level during extreme or unusual operating conditions, without increasing authorized and budgeted staffing levels within each PSAP. This initiative will require the PSAPs involved to restructure their strategic plans to include the responsibilities of each partnering agency.

***NOTE: The following section on “Consolidation Project Plan” is ONLY required if your type of grant is a “Consolidation”. If your project IS NOT a Consolidation, proceed to question # 23 to complete the grant application.***

**16. Indicate how a consolidation would take place and improve service**

Click or tap here to enter text.

**17. Indicate how the consolidated PSAP should be organized and staffed**

Click or tap here to enter text.

**18. Indicate what services the consolidated PSAP should perform**

Click or tap here to enter text.

**19. Indicate how consolidated PSAP policies should be made and changed**

Click or tap here to enter text.

**20. Indicate how the consolidated PSAP should be funded exclusive of grant funding**

Click or tap here to enter text.

**21. Indicate what changes or improvements should be made to inter-communications among the local governments participating in the consolidation in order to better support operations.**

Click or tap here to enter text.

**22. Discuss sustainability of the consolidation project during the proposed term of the project, and for the foreseeable future.**

Click or tap here to enter text.





## FINANCIAL DATA

### **23. Current 911 Fund Balance**

\$994,516.43

Fund balances were requested from Avery, McDowell, and Yancey counties, but have not been provided.

### **24. Amount Requested**

\$4,193,112.50

### **25. Total Project Cost**

\$4,793,112.50

## Budget and Budget Narrative

***A budget and budget narrative must be supplied for all types of projects, as well as a copy of the applicant agency's approved FY 2016 PSAP budget.***

### **26. List planned expenditures**

Please see the following information detailed below.

Total Project Costs:

Construction: \$2,147,079.00

Technology: \$2,646,033.50

Total Cost: \$4,793,112.50

Planned expenditures are identified below in question 27, and a funding request table can be found as Attachment 5.

### **27. Provide a budget narrative that briefly explains the reason for each requested budget item.**

Construction Costs: \$2,147,079

Budgetary costs for the design phase, permitting, building construction, and other ancillary costs were provided by Mission Critical Partners. These cost were developed based on Mission Critical Partners' experience in programming such facilities, and factoring in costing based upon similar work completed within North Carolina. Programming for the facility allows for six dispatch workstations, four of which are for use by Avery, McDowell, and Yancey counties should the need arise. When not in use by any of these counties, the positions could be used for training or monitoring newly released telecommunicators. The facility programming also includes support areas for staff and equipment. The facility programming and budgetary cost estimates can be found in Attachment 7.

Mitchell County does not anticipate using a Construction Manager, but will manage the A/E firm to support the Project Manager and Facilities Department in the administration of construction contracts and to supervise the construction.

Costs for construction of the new PSAP facility, including site construction, are estimated to be \$1,530,625 based upon square footage cost of \$350/square foot. With escalation and construction contingency, the cost is estimated at \$1,687,514.

- Architectural fees and related services that are necessary for successful project completion are estimated by Mission Critical Partners to \$199,376. Architectural fees are projected based upon 9 percent of the base construction cost estimate. Permits are estimated at \$35,000.
- With an overall construction project contingency of 10 percent, the construction budget is

estimated at \$2,147,079.

#### Technology Costs: \$2,646,033

Many vendors were unresponsive or indicated they were too busy at this time to provide quotes. As such, Mitchell County experienced many difficulties obtaining current quotes from vendors. Mitchell County has obtained as many quotes as possible for this grant year. Mitchell County has utilized quotes from Mission Critical Partners' subject matter experts based on their work and industry knowledge when a vendor quote was not available.

#### Computer Aided Dispatch: \$197,961

Southern Software provided Quotes for CAD and Mapping for the Mitchell County regional backup initiative. Avery, McDowell, and Yancey counties currently have Southern Software for CAD/mapping. Mitchell County is end-of-life with their CAD/mapping system from TriTech and have multiple issues with the TriTech CAD described in the Mitchell County Assessment Report, which is Attachment 6. Mission Critical Partners recommends Mitchell County implement Southern Software so that all four counties are on the same CAD for redundancy.

#### Administrative Telephone System: \$51,535

By moving into a new 9-1-1 facility, a new administrative telephony system is needed. A similar administrative telephony system was quoted for Sampson County, the system specified was comparable, and is used as an estimate for Mitchell County. The quote referenced the equipment, network, installation, and support.

#### 911 Telephone System: \$244,716

Mitchell County currently has a Zetron 3200 9-1-1 Telephone System. This system is not NG9-1-1 compliant as it is unable to process IP-based calls. As 9 1-1 in the United States is in the process of undergoing a dramatic change in the technology and methods that deliver 9-1-1 calls to PSAPs, this inability will introduce limitations in the near future. Mitchell County has four centralized automatic message accounting (CAMA) 9-1-1 trunks and five administrative lines. Frontier is the local exchange carrier (LEC).

Avery County 9-1-1 has five CAMA 9-1-1 trunks. The 9-1-1 phone system is Airbus Vesta implemented on 2012 and AT&T is the LEC. Avery County has three consoles for dispatching and call taking.

McDowell County 9-1-1 has eight (four wireless and four wireline) CAMA trunks. The 9-1-1 CPE is an Airbus Vesta 4, which is NG9-1-1-compliant. McDowell County has five consoles, one of which is an administrative console. Frontier is the LEC. McDowell County has an on-site 9-1-1 ALI database by DataMaster.

Yancey County 9-1-1 has five CAMA trunks. Yancey County has three consoles. Frontier is the LEC. The 9-1-1 CPE is Mod U Com, which is NG9-1-1-compliant.

A quote for a 6-position geo-diverse Airbus Vesta 9-1-1 phone system, which is NG 9-1-1 compliant is below in Attachment 7.

#### Recording System: \$64,511

Best practice is for 9-1-1 PSAP to record and log all 9-1-1 telephone calls and radio traffic. Quote from Blue Ridge Voice and Data, LLC is below in Attachment 7.

Radio Console System: \$334,808

This is for six Motorola MCC5500 digital consoles based on previous projects and Mission Critical Partners' expertise.

Radio Tower: \$211,000

A 200-foot-self-supporting tower is recommended by Mission Critical Partners to provide adequate height and antenna space to support all participating agencies.

NetClock: \$11,766

A NetClock is needed to synchronize time over multiple technologies of 9-1-1 telephone, radio, and CAD. Time synchronization is critical for accurate time documentation of events that may be reported to the PSAP, or managed by the PSAP.

Uninterruptible Power Supply (UPS): \$60,000

This equipment is required to allow the PSAP's mission essential equipment to operate when commercial power is off-line and an interim power source is needed to power equipment until the system generator is online. The cost estimate is based on an APC 40kva UPS with a 15-minute battery including installation.

911 Console Workstations/Chairs: \$138,164

Six workstation consoles estimated at \$130,984 and six chairs estimated \$1,200 per chair for \$7,200.

Network/Hardware/Structural Cabling: \$147,736

This is for workstations, network hardware, backup storage, individual UPS, software, cabling and labor. The provision of hardware and software to support the mission of the PSAP is critical to allow functionality to properly occur. Cabling infrastructure to support the facility and critical 9-1-1 systems will be installed with the technology equipment. The estimate is based on previous quotes for similar projects and Mission Critical Partners' expertise.

Cabling infrastructure is necessary to allow the proper functioning of equipment within the PSAP. Cabling of the latest design should be installed such that the facility is supported by the most current equipment available.

Grounding: \$14,300

All critical infrastructure/facility systems need to be grounded to protect from electrical spikes such as from lightning strikes. Proper grounding in accordance with the latest industry standards should be used.

In-building Distributed Antenna System (DAS): \$110,000

This system would enhance the reception of wireless signals within the facility. This allows staff to coordinate actions while using communication devices within the building. This expands the capability of the PSAP to deliver communication services using multiple communication platforms. This cost is based on similar systems that Mission Critical Partners has worked on for other projects.

Audiovisual: \$17,500

An audiovisual system is to support the mission of the PSAP with desired control and presentation functionality. The system can be used for monitoring events and receiving briefings from local, state

and national levels. The system will increase the awareness capability within the facility, and provide a state-of-the art media delivery system, including displays, an interactive projector, audio conferencing system, and audio. This system can be used for training functions, event briefings, and other presentations.

Access Control/Site Security Monitoring Equipment: \$78,234

Access Control/Site Security Monitoring Equipment is necessary to monitor the exterior of the facility to ensure the safety and security of the facility occupants and the property itself. Cameras, hardware, and monitors for the purpose of monitoring closed-circuit television from security camera feeds, and equipment to control the access and egress at the facility are required to enhance the security of the PSAP.

Access Control Hardware/Software: \$25,000

The hardware and software needed to operate the Access Control/Site Security. This estimate is provided from previous Mission Critical Partners' work for similar-sized facilities.

Fiber Connectivity Services: \$240,000

Broadband connectivity is needed to support the high bandwidth of CAD data replication and radio connectivity from Avery, McDowell, and Yancey counties to the backup facility in Mitchell County. The cost is based on previous Mission Critical Partners' experience and expertise.

Office Furniture: \$17,258

Office furniture is for supporting the functional areas within the facility, other than the 9-1-1 center. The cost came from a previous quote on another facility.

Generator: \$53,475

Generator is needed for extended power outages. The estimated cost comes from previous Mission Critical Partners' projects and experience.

Consultative and Professional Services: \$ 387,521

Mitchell County desires to continue its relationship with Mission Critical Partners and to have them provide program management support through the completion of the project. The support will address technology integration, procurement support, migration planning, detailed timeline development, vendor coordination, and managing grant requirements, including reporting. Professional Services fees relating to Mission Critical Partners' work will be funded within the grant award.

Technology Subtotal: \$2,405,485.00

Technology 10 percent Contingency: \$240,548.50

Technology Total (including Contingency) \$2,646,033.50

**28. State how you will follow applicable procurement law, rules, and policies.**

As noted in the resolutions signed by Mitchell, Avery, McDowell, and Yancey counties, each county agreed that "in order to facilitate the application and granting process, the application shall be

submitted and any grant funds received shall be administered with Mitchell County acting as the lead agency for such purposes.”

As such, the land, facility, all equipment and furnishings will be Mitchell County’s property.

The Mitchell County Finance Officer will have responsibility for ensuring all applicable procurement laws are followed. This will be accomplished by following existing County procurement policies, which are in accordance with Article 8 of the North Carolina General Statutes, specifically §143-129, which establishes the procedures for formal bidding and §143-131, which establishes the procedures for the informal bid process. These statutes define the dollar thresholds established for public contracting. For example, construction contracts of \$500,000 and above will require a formal bid process; whereas equipment valued between \$30,000 and \$89,999 may be procured by informal bid.

A Request for Qualifications (RFQ) will be issued to identify architectural/engineering firms for design services. Responses will be evaluated and a firm selected based on identified criteria within the RFQ. Contract negotiations, including costing, will follow with the firm deemed best qualified.

Mitchell County’s finance officer will maintain all financial records related to the project in accordance with Generally Accepted Accounting Principles, as set forth by the Financial Accounting Standards Board.

The project will also comply with any additional requirements that the North Carolina 911 Board may impose.

**29. If the project will have ongoing expenses, such as monthly recurring charges, describe plans and specific sources for future/long-term funding and demonstrate how the project will be sustained in the future without additional 911 Grant Program funding.**

Mitchell County believes that the capital costs associated with this initiative will be one-time expenses, at least for the foreseeable future. Mitchell County will continue to use 9-1-1 funding for eligible future expenses. Recurring costs of maintaining the facility and planned systems are anticipated to be within the current revenue capacity of Mitchell County.

As noted in the resolutions signed by Avery, McDowell, and Yancey counties, each county agrees to finance only the annual maintenance costs specific to its respective call taking and dispatching equipment placed at the Mitchell County Regional Backup Center. All other costs associated with 9-1-1 center operations and equipment are solely the responsibility of Mitchell County.

## Evaluation

***All applications must include evaluation information. The final report shall include an evaluation demonstrating that the equipment or services funded by the grant have been purchased, installed/implemented, and are performing as expected.***

**30. Explain how your evaluation will measure the achievement of the goals and objectives identified in the Project Description with a timeline for meeting short, intermediate, and long term goals.**

Due to the scope and complexity of this project, and Mitchell County's limited technology resources, funds are being requested to contract with Mission Critical Partners to aid in qualifying and selecting the architectural firm; to aid in procurement and implementation of the technology; to provide oversight for the construction of the facility; and to provide overall project support, including ensuring milestones are met and project files are maintained.

From previous work with Mission Critical Partners, Mitchell County knows that they employ Project Management Institute principles. Mitchell County will work with Mission Critical Partners to refine project goals and provide a more detailed project timeline. Mitchell County will continue to work with Avery, McDowell, and Yancey counties to ensure their needs are captured at the onset of the project.

The project plans, based on accomplishing our goals and objectives, will be used as a basis to measure progress. Individual tasks and any dependencies will be used to determine whether a component of the project is being successfully accomplished.

Mission Critical Partners estimates the project can be completed in as few as 24 months, but much will be dependent on the technology being procured and the lead time, such as for a CAD system. Each phase of the project (design, bidding, construction, substantial completion, technology, systemization, migration, etc.) will have established timeframes to ensure the project remains on schedule. Mitchell County acknowledges there may be unforeseen and uncontrollable deviations from the schedule, but these will be mitigated to the best of our ability.

Mission Critical Partners will be tasked with maintaining all communications, activities, and deliverables. Project team meetings will occur as needed, but no less than twice a month. Minutes will be prepared for all meetings and will be shared with those in attendance and absent project team members. All required grant program reporting will be coordinated through Mission Critical Partners.

A tentative project timeline of milestones is listed below:

Prepare a request for proposal (RFP) for a design architect/engineering firm – Month 1  
Select and hire design architect – Month 2

Establish equipment/systems parameters to coincide with design development– Month 3  
Complete facility programming – Month 3  
Begin RFP development for long-lead technology – Month 3  
Complete design – Month 5  
Issue RFPs depending on lead time – Month 5–12  
Bid construction – Month 9–10  
Select contractor(s) and begin construction – Month 11–12  
Select vendors – dependent on RFP release  
Complete construction – Month 23  
Integrate technology – Month 23–24  
System acceptance testing – Month 24  
Commission and occupy new center – Month 24–25

As each milestone is completed, a status report will be provided to all stakeholders to keep them apprised.

**31. Describe how evaluations will be conducted, including performance parameters which must be met in order to meet acceptance criteria.**

Each milestone activity will be evaluated by Mitchell County with assistance from Mission Critical Partners to ensure it meets expectations and defined scopes of work. A milestone will not be accepted until contracted results are proven within the associated timeframe. As noted above, status reports will be prepared for each milestone activity.

Minutes from meetings and other relevant documentation will be shared with stakeholders as determined during project initiation.

All new technology will be required to have a vendor-provided acceptance testing plan, which will be reviewed and approved prior to the actual acceptance testing. Mission Critical Partners will be tasked with ensuring the acceptance test plans align with industry standards and are designed to fully test the individual equipment and components. Any tests that fail must be re-tested following any needed mitigation.

Additional evaluations will be conducted as needed.

During construction, the work must pass the required inspections, including grounding, which is imperative in a mission-critical facility. The final measures of acceptance will be obtaining a temporary certificate of occupancy and then final certificate of occupancy.

**32. Identify how data will be collected and presented**

All documentation related to the grant project, including meeting minutes, project schedules, programming, design documents, construction drawings, proposals, contracts, change orders, etc. will be maintained in a project folder with shared access available to stakeholders so



identified during project initiation.

During the life of the grant project, a monthly progress report will be submitted to the North Carolina 911 Board indicating the current activity for the month, as well as that planned for the subsequent month. Activities to be presented include: design, permitting, construction, and communications systems. The activities will be expanded upon as the facility nears substantial completion and systemization activities are underway.

Attachment 1

Interlocal Agreements/Resolution of Support

These attachments pertain to questions 5 and 12.



**RESOLUTION SUPPORTING THE APPLICATION FOR A GRANT FROM  
THE NORTH CAROLINA 911 BOARD**

**WHEREAS**, Avery County currently operates a Public Safety Answering Points or PSAP's providing service and answering 911 calls in their respective jurisdictions; and

**WHEREAS**, the current PSAP providing service and answering 911 call for Avery County are handled through a system financed, in part, from 911 surcharge funds provided by the North Carolina 911 Board under G.S. 143B-1400; and

**WHEREAS**, the North Carolina 911 Board has commenced its PSAP Grant Program; and

**WHEREAS**, Mitchell County plans to apply for funding through the PSAP Grant Program for the construction of a state of the art facility to replace the end of life facility that houses the Mitchell County primary PSAP; and

**WHEREAS**, through NC General Statutes 143B-1406(f)(5), the State of North Carolina requires a PSAP to have a plan and means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP; and

**WHEREAS**, through the PSAP Grant Program application referenced above, Avery County, McDowell County, Yancey County and Mitchell County plan to jointly apply for grant funding to provide back-up PSAP service for the PSAP's and citizens of all participating counties on a regional basis; and

**WHEREAS**, the Avery County Board of Commissioners, and Mitchell County Board of Commissioners support the regional effort to cooperatively provide for the back-up PSAP needs of Avery and Mitchell Counties in a cost effective way; and

**WHEREAS**, by this Resolution, The Avery County Board of Commissioners, and the Mitchell County Board of Commissioners intend to authorize and to support an application for grant funding under the PSAP Grant Program adopted by the North Carolina 911 Board.


**NOW, THEREFORE, BE IT RESOLVED** by the Board of Commissioners of Avery County and Mitchell County, each being a government body located in North Carolina, that individually and jointly each of the governmental bodies expresses its support for the construction of the Mitchell County Primary PSAP; and

**FURTHERMORE, BE IT RESOLVED** by the Board of Commissioners of Avery County and Mitchell County, each being a government body located in North Carolina, that individually and jointly each of the governmental bodies:

- Expresses its support for the provision of a regional back-up PSAP concept for the PSAP's citizens of all the participating counties utilizing the Mitchell County Primary PSAP proposed; and
- Agrees to finance only the annual maintenance cost specific to Avery County for the provision of the Avery County call taking and dispatching equipment to be placed at the Mitchell County Regional Back Up PSAP; and
- Authorizes and supports the application for a grant under the PSAP Grant Program from the North Carolina now that the applications for funding are available; and
- Agrees that in order to facilitate the application and granting process, the application shall be submitted and any grant funds received shall be administered with Mitchell County acting as the lead agency for such purposes.

This Resolution is adopted by each of the governmental bodies set out below, but executed in counterparts pursuant to authority duly given by official action of the governing body on the date indicated below.

**MITCHELL COUNTY BOARD OF COMMISSIONERS**



Chairperson

05-16-16

Date

Attest:



County Clerk



EVERY COUNTY BOARD OF COMMISSIONERS

Martha Jaynes Hicks

Chairperson

5 - 16 - 2016

Date

Attest:

Cindy Hubbell

County Clerk





**RESOLUTION SUPPORTING THE APPLICATION FOR A GRANT FROM  
THE NORTH CAROLINA 911 BOARD**

**WHEREAS**, McDowell County currently operates a Public Safety Answering Points or PSAP's providing service and answering 911 calls in their respective jurisdictions; and

**WHEREAS**, the current PSAP providing service and answering 911 call for McDowell County are handled through a system financed, in part, from 911 surcharge funds provided by the North Carolina 911 Board under G.S. 143B-1400; and

**WHEREAS**, the North Carolina 911 Board has commenced its PSAP Grant Program; and

**WHEREAS**, Mitchell County plans to apply for funding through the PSAP Grant Program for the construction of a state of the art facility to replace the end of life facility that houses the Mitchell County primary PSAP; and

**WHEREAS**, through NC General Statutes 143B-1406(f)(5), the State of North Carolina requires a PSAP to have a plan and means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP, whether a comprehensive or interim solution; and

**WHEREAS**, through the PSAP Grant Program application referenced above, Avery County, McDowell County, Yancey County and Mitchell County plan to jointly apply for grant funding to provide back-up PSAP service for the PSAP's and citizens of all participating counties on a regional basis; and

**WHEREAS**, the McDowell County Board of Commissioners, and Mitchell County Board of Commissioners support the regional effort to cooperatively provide for the back-up PSAP needs of McDowell and Mitchell Counties in a cost effective way utilizing either a comprehensive or interim solution; and

**WHEREAS**, by this Resolution, The McDowell County Board of Commissioners, and the Mitchell County Board of Commissioners intend to authorize and to support an application for grant funding under the PSAP Grant Program adopted by the North Carolina 911 Board.

**NOW, THEREFORE, BE IT RESOLVED** by the Board of Commissioners of McDowell County and Mitchell County, each being a government body located in North Carolina, that individually and jointly each of the governmental bodies expresses its support for the construction of the Mitchell County Primary PSAP; and

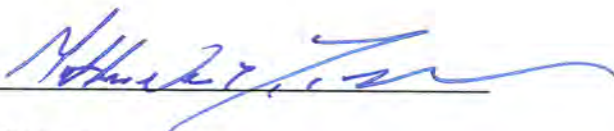


**FURTHERMORE, BE IT RESOLVED** by the Board of Commissioners of McDowell County and Mitchell County, each being a government body located in North Carolina, that individually and jointly each of the governmental bodies:

- Expresses its support for the provision of a regional back-up PSAP concept for the PSAP's citizens of all the participating counties utilizing the Mitchell County Primary PSAP proposed; and
- Agrees to finance only the annual maintenance cost specific to McDowell County for the provision of the McDowell County call taking and dispatching equipment to be placed at the Mitchell County Regional Back Up PSAP; and
- Authorizes and supports the application for a grant under the PSAP Grant Program from the North Carolina now that the applications for funding are available; and
- Agrees that in order to facilitate the application and granting process, the application shall be submitted and any grant funds received shall be administered with Mitchell County acting as the lead agency for such purposes.

This Resolution is adopted by each of the governmental bodies set out below, but executed in counterparts pursuant to authority duly given by official action of the governing body on the date indicated below.

**MITCHELL COUNTY BOARD OF COMMISSIONERS**

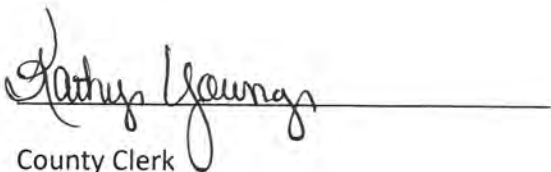


Chairperson

05-16-14

Date

Attest:



County Clerk



MCDOWELL COUNTY BOARD OF COMMISSIONERS

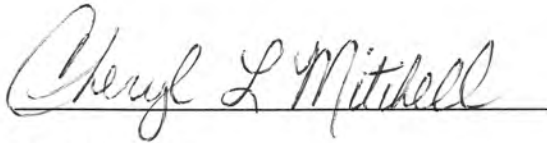


Chairperson

5/23/2016

Date

Attest:



County Clerk







**RESOLUTION SUPPORTING THE APPLICATION FOR A GRANT FROM  
THE NORTH CAROLINA 911 BOARD**

**WHEREAS**, Yancey County currently operates a Public Safety Answering Points or PSAP's providing service and answering 911 calls in their respective jurisdictions; and

**WHEREAS**, the current PSAP providing service and answering 911 call for Yancey County are handled through a system financed, in part, from 911 surcharge funds provided by the North Carolina 911 Board under G.S. 143B-1400; and

**WHEREAS**, the North Carolina 911 Board has commenced its PSAP Grant Program; and

**WHEREAS**, Mitchell County plans to apply for funding through the PSAP Grant Program for the construction of a state of the art facility to replace the end of life facility that houses the Mitchell County primary PSAP; and

**WHEREAS**, through NC General Statutes 143B-1406(f)(5), the State of North Carolina requires a PSAP to have a plan and means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP; and

**WHEREAS**, through the PSAP Grant Program application referenced above, Avery County, McDowell County, Yancey County and Mitchell County plan to jointly apply for grant funding to provide back-up PSAP service for the PSAP's and citizens of all participating counties on a regional basis; and

**WHEREAS**, the Yancey County Board of Commissioners, and Mitchell County Board of Commissioners support the regional effort to cooperatively provide for the back-up PSAP needs of Yancey and Mitchell Counties in a cost effective way; and

**WHEREAS**, by this Resolution, The Yancey County Board of Commissioners, and the Mitchell County Board of Commissioners intend to authorize and to support an application for grant funding under the PSAP Grant Program adopted by the North Carolina 911 Board.

**NOW, THEREFORE, BE IT RESOLVED** by the Board of Commissioners of Yancey County and Mitchell County, each being a government body located in North Carolina, that individually and jointly each of the governmental bodies expresses its support for the construction of the Mitchell County Primary PSAP; and

**FURTHERMORE, BE IT RESOLVED** by the Board of Commissioners of Yancey County and Mitchell County, each being a government body located in North Carolina, that individually and jointly each of the governmental bodies:

- Expresses its support for the provision of a regional back-up PSAP concept for the PSAP's citizens of all the participating counties utilizing the Mitchell County Primary PSAP proposed; and
- Agrees to finance only the annual maintenance costs specific to Yancey County for the provision of the Yancey County call taking and dispatching equipment to be placed at the Mitchell County Regional Back Up PSAP; and
- Authorizes and supports the application for a grant under the PSAP Grant Program from the North Carolina now that the applications for funding are available; and
- Agrees that in order to facilitate the application and granting process, the application shall be submitted and any grant funds received shall be administered with Mitchell County acting as the lead agency for such purposes.

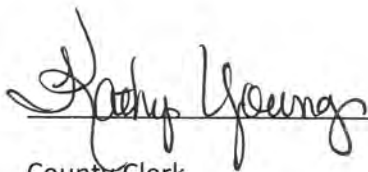
This Resolution is adopted by each of the governmental bodies set out below, but executed in counterparts pursuant to authority duly given by official action of the governing body on the date indicated below.

**MITCHELL COUNTY BOARD OF COMMISSIONERS**

  
Chairperson

05-16-16  
Date

Attest:

  
County Clerk



YANCEY COUNTY BOARD OF COMMISSIONERS



Chairperson

5-23-2016

Date

Attest:



County Clerk



Attachment 2

**Mitchell County Central Communications**

**E-911 Technology Strategic Plan**

**2016-2021**

This attachment pertains to question 10.



# **Mitchell County Central Communications**

## **E-911 Technology Strategic Plan**

### **2016-2021**

## **Introduction**

The Mitchell County Central Communications E-911 Technology Strategic plan was developed by the Communications Manager and various Subject Matter Experts (in the absence of a county IT Department) along with results from a recent assessment by Mission Critical Partners.

The intent of the plan is to guide the Communications Center's technology resources over the next 5 years and provide for an annual review of the system and advancing technologies that drive the operation of the Communications Department, to assure the most efficient operation possible.

The plan includes:

- Demographics of Mitchell County
- A profile of current Technology – Infrastructure and systems
- Objectives and improvement plans/actions

While the economy drives funding for agencies, there is, even in a reduced funding situation an expectation from the public for a high level of 911 Service. Advancing technologies available in the world of personal communications drives the importance of highly developed 911 systems and technologies to handle those calls for assistance. The ability to send and receive text messages, utilizing caller services on laptops, tablets, gaming devices are constantly evolving and driving technology changes. Most importantly having a system built to accept and process calls and pass data via an IP-enabled network is a rapidly approaching reality.

Man-made and Natural Disasters drive the need for redundancy and security of all systems to be a top priority in the 911 Communications environment.

Public Safety Technology key themes include:

- Budget and Funding
- Migration to Next Generation 911
- Emergency data sharing and system interoperability
- Integration of Public Safety apps and Smart Devices

- Performance, reliability and security
- Partnerships and service sharing
- System Interoperability and emergency data sharing
- Regional concept 911 system back up plans

## History

The Mitchell County Central Communications Center is the Primary PSAP for Mitchell County and currently serves 15,294 citizens over 220 mountainous square miles in Mitchell County along with a Northwestern section of McDowell County. The Southern end of Mitchell County contains a section of the Blue Ridge Parkway which hosts millions of travelers each year. CSX Railroad traverses Mitchell County from the Tennessee Border to the McDowell County line.

Mitchell County Central Communications is responsible for serving 3 Fire Departments, 4 Combination Fire/Rescue Department with a total of 11 stations, 1 Contracted EMS Agency, Mitchell County Sheriffs Office, Spruce Pine Police Department and Bakersville Police Department. The Agency is after hours contact for multiple county and city departments.

Mitchell County Central Communications has been in its current location since 2001 and has 1 Radio Site located in the Northern portion of the county and 1 Radio Site located in the Southern portion of the county. At that time there were 2 Operator Workstations in the operations area and a third in the 911 Database/Trainer Office. Orbacom CAD, Radio and Maps were utilized along with a TCI ANI/ALI Controller for the on-site 911 Database. In 2009, an upgrade of equipment to VisionAir CAD, Zetron Telephone and Radio, GeoConex ANI/ALI Controller along with XYBIX Furniture. The Radio system was expanded from just a VHF system to a combination VHF/800 mhz radio system as Mitchell County joined the North Carolina VIPER System.

## Mitchell County Central Communications System Components

### Equipment located in the Communications Facility:

911 Database Server – on site database  
 Computer Aided Dispatch Servers and Workstations  
 Telephone Server and Workstations  
 Radio Dispatch Server and Workstations  
 Mapping Server and Workstations  
 Logging Recorder  
 System Administration Workstations  
 IP Network Equipment  
 DCI/NCIC Components

**Equipment located off site:**

Woody's Knob – VHF Repeaters  
800 "VIPER" System

Locust Knob – VHF Repeaters  
800 "VIPER" System

*Note: All efforts will be made to ensure that proposed infrastructure and technology meets or exceeds the North Carolina 911 Board's proposed operation standards for PSAPs. This includes standards for facilities, telephones, dispatching systems, CAD systems, Testing and Records. Recommendations from Mission Critical Partners will be addressed through the objectives and improvements presented.*

## **Objectives**

### **Objective 1**

Establish a team of Subject Matter Experts (911 SME Team) for assessment purposes.

### **Objective 2**

Assess and address technology changes and needs. Determine network stability and new technologies.

### **Objective 3**

Establish a schedule for replacement of hardware with short and long term planning. End of life equipment will be the first priority and addressed in the short term planning.

### **Objective 4**

Establish a Regional Back up Plan with surrounding counties to assure service in times of failure or disaster.

### **Objective 5**

Establish a method of user satisfaction and feedback review

## **Improvements and Actions**

## **Departmental SME Team**

The SME Team will be established before the end of FY 15/16 and will meet bimonthly to discuss assessment needs and results along with reviewing and forming a plan for user satisfaction improvements of the 911 system and needed technology advancements.

## **Short Term Improvements**

Improvements to be made over the next 24 months will include the upgrade of the Computer Aided Dispatch server and workstations, telephone server and workstations, radio server and workstations. An assessment of the additional computers will be completed by the end of the first quarter of the budget year to determine any additional upgrades needed due to software changes.

## **Long Term Improvements**

Long Terms plans include upgrading of computer hardware on a schedule not to exceed 3 years for server and 2 years for workstations. Upgrades of hardware will be dictated by an assessment that will be performed every third quarter of the budget year for any needs to be presented in the budget process.

## **Radio Tower Sites - Short and Long Term Improvements**

Routine Preventive Maintenance is performed on the Radio System Components and assessment of the condition of hardware is included in the PM. Radio Improvements will be tentatively scheduled for FY 2020-2021.

## **Technology Advancement Driven Changes**

All improvement schedules are subject to adjustment at any time due to advancement of technology. All improvements to any system within the Mitchell County Central Communications Facility will be IP capable and adherent to defined Standards.

## **Regional Back Up**

Mitchell County will work closely with Mission Critical Partners to establish a facility and a plan for Emergency Back-up for surrounding counties at either an Interim or Comprehensive level. This plan will be consistent with the North Carolina 911 Board proposed standards.



Attachment 3

**Mitchell County Central Communications**

**PSAP Fund Balance and Report**

This attachment pertains to question 11.

## Mavis Parsley

---

**From:** Tapler, Marsha <marsha.tapler@nc.gov>  
**Sent:** Friday, February 26, 2016 2:43 PM  
**To:** Mavis Parsley; Stephanie Wiseman (stef911us@yahoo.com)  
**Cc:** Mason, Karen  
**Subject:** \*\*\*FINAL Mitchell FY2015 Revenue-Expenditure Report

Good afternoon Mavis and Stephanie,

The report review is complete. I have updated our records to reflect the approved June 30, 2015 fund balance of \$994,516.43. Let me know if you have questions or concerns.

Have a good weekend.

*Marsha*

Marsha Tapler  
Financial Analyst, North Carolina 911 Board  
NC Department of Information Technology  
919.754.6344 office  
[marsha.tapler@nc.gov](mailto:marsha.tapler@nc.gov)  
[www.nc911.nc.gov](http://www.nc911.nc.gov)



 Nothing Compares 

*Email correspondence to and from this address is subject to the North Carolina Public Records Law and may be disclosed to third parties.*

**North Carolina 911 Board**  
**PSAP Revenue-Expenditure Report**  
**For the period July 1, 2014 - June 30, 2015 (SFY15)**  
**Modified Accrual**

**911 Approved Fund balance June 30, 2014**

\$905,505.15

June 30, 2012 Ending Fund Balance-Approved by the North Carolina 911 Board for PSAP Revenue-Expenditure Report period July 1, 2014 - June 30, 2015 (FY2015)

**Revenue**

\$139,925.60

911 revenue received from the North Carolina 911 Board representing 911 service fee collections made during the period July 1, 2014 - June 30, 2015 (FY2015) Modified Accrual

**Interest**

\$13.84

Interest earned on the Emergency Telephone System Fund (911) between July 1, 2014 - June 30, 2015 (FY2015)

**Expenditures**

\$50,928.16

Total expenditures made in compliance with eligible 911 fund uses between July 1, 2014 - June 30, 2015 (FY2015) as listed on the detailed expenditure total page.

**Emergency Telephone System Fund Balance June 30, 2015**

\$994,516.43

**Grant Fund Revenue** (only revenues sent for reimbursement should be listed)

\$0.00

**Grant Fund Expenditures**

\$0.00

**PSAP Director** Stephanie Wiseman

Name

47 Crimson Laurel Circle

STREET address

Stephanie Wiseman

Signature

Bakersville, NC 28705

City, State

stef911us@yahoo.com

E-Mail

828-385-0795

Phone

As Finance Officer for Mitchell County, I  
(Governing Unit)

Mavis Parsley  
Name

certify that I have written or reviewed this Revenue/Expenditure Report and that all the information in the report is true and correct as of this date.

Mavis Parsley

Signature

2/25/2016

Date

Mavis.parsley@mitchellcounty.org

E-Mail

828-537-1397

Phone



## PSAP NAME:

Mitchell County

## 911 Phone System:

Recurring Service  
Provider cost

911 Trunk/Selective Routing/ALI Provisioning 9,426.12 Frontier 6/30/14

Basic line charge only \*\*One administrative line per call-taking position 2,523.86 Frontier 6/30/14

Interpretive Services

MPLS-Fiber used for backup PSAPs connections

Data Connections for the sole purpose of collecting call information for analysis. If connections is shared with non-eligible 911 device, only a percentage is eligible.

3,385.83 French Broad/Country Cablevision

TOTAL: 15,335.81

Recurring Service Provider cost/Lease Cost	Non-recurring cost*	Maintenance cost**
		Contractual In-house

Automatic Call Distribution System

911 telephone equipment (CPE, etc.)

1,458.00

High Country  
Communications/  
Headseats

TDD/TTY

TOTAL : 0.00 1,458.00 0.00 0.00

## Telecommunicator Furniture

Recurring Service Provider cost/Lease Cost	Non-recurring cost*	Maintenance cost**
		Contractual In-house

Cabinets, tables, desks which hold 911 equipment

TOTAL : 0.00 349.99 0.00 0.00 Staples-Chair

PHONE &amp; FURNITURE TOTAL: 17,143.80

## Software Expenditures

	Recurring Service Provider cost/Lease Cost	Non-recurring Cost	Maintenance Cost	Comments
			Contractual In-house	(If purchases made in prior year, make comment noting year)
CAD (modules that are part of the call-taking process only)				
GIS (to create and display the base map showing street centerlines and address, address point layer)			400.00	ESRI
Message switch software (allows for voiceless dispatch, status updates and mobile to CAD messaging. (Some message switch software included may not be eligible: (RMS, Firehouse, access to NCIC, DCI, warrants, JMS etc.)				
MCT Digital Voiceless Dispatch Licensing **Allowable for Dispatched Protocols Law, Fire & EMS.				
Voice Logging Recorder				
MIS for 9-1-1 phone system		150.00		McKinney Computer
Time Synchronization				
Dispatch Protocols (Law, Fire, Medical)			7,855.00	Priority Dispatch 6/30/14
Quality Assurance for Protocols				
ALI Database software			2,037.40	High Country Communications
Software Licensing			1,950.00	TriTech

Radio console software. Some Radio console software will include many additional modules that are not a part of the 911 process and are not eligible.					
Console Audio Box (CAB) software					
Paging software (to send call from CAD to first responder pager or mobile phone)			395.00		Notepage - 6/30/14
Computer Aided Dispatch (CAD) to Computer Aided Dispatch (CAD) interface software (sending CAD info to another PSAP for dispatch)					
Automated digital voice dispatching software					
Subtotal	\$0.00	\$150.00	\$12,637.40	\$0.00	

Software Total: \$12,787.40

Hardware Expenditures	Recurring Service Provider cost/Lease Cost	*Non-recurring Cost	**Maintenance Cost		Comments <small>(If purchases made in prior year, make comment noting year)</small>
			Contractual	In-house	
CAD server					
GIS server					
911 Phone server		135.00			High Country Communications
Voice logging server					
Activity Monitor *must meet requirements					
Computer Workstations					
Time Synchronization					
UPS					
Generator			250.00		Avery County Electric 6/30/14
Call Detail Record Printer (automatically captures incoming 911 telephone call data)					
Radio Network Switching Equipment used exclusively for PSAP's Radio Dispatch Consoles (i.e.: CEB, IMC, NSS)					
Fax Modem (for rip & run)					
Printers (CAD, CDR, Reports, etc)					
Radio Console Dispatch Workstations					
Radio Console Ethernet Switch					
Radio Console Access Router					
Back Up Storage Equipment for 911 Data Base Systems					
Mobile Message Switch					
Paging Interface With Computer Aided Dispatch (CAD) system					
Alpha / Numeric Pager Tone Generator					
Radio Console (mobile radio configured for exclusive use at the dispatcher work station for dispatcher operation to perform dispatch function when there is no traditional console installed at the workstation)					
Handheld GPS devices that are used strictly for 911 addressing *must meet requirements of Mapping Grade GPS Receiver as defined by GPS Data Collection-Documentation Standards NCGICC					
Hosted Solutions: *Must be approved by 911 Staff prior to reporting.					
Subtotal	\$0.00	\$135.00	\$250.00	\$0.00	

Hardware Total: \$385.00

#### Training Expenditures

Class Component Costs	Individual Class Costs --report one class type per column. (add columns if necessary)			
-----------------------	---	--	--	--

Class Provider (e.g Priority Dispatch, APCO, NENA, etc.)	IAED	IAED	APCO	APCO	APCO	APCO	APCO	IAEMD	IAED	ARHS	APCO	PRIO DISP	PRIO DISP	PRIO DISP	APCO
Eligible class title or description (e.g. Basic telecommunicator training, EMD, CPR, etc.)	RECERT EPD/EFD	EPD	ACTIVE SHOOTER	CCS	DOCC	STRESS	PST 1	RECERT EMD	CDE	CPR	FSC	EMD	EFD	EPD	ACTIVE SHOOTER
Registration/materials cost per attendee	15.00	30.00	274.00	399.00	249.00	249.00	359.00	50.00	5.00	7.00	429.00	325.00	325.00	325.00	249.00
Number of attendees	5	1	1	2	1	1	2	2	17	5	1	2	9	5	1
Total registration/materials cost per class	75.00	30.00	274.00	798.00	249.00	249.00	718.00	100.00	85.00	35.00	429.00	650.00	2,925.00	1,625.00	249.00
Per diem per attendee <i>**(cannot exceed state or local government per diem rate per attendee per day. Out of state requires prior approval by the 911 Board)</i>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	813.16	0.00
<b>TOTAL COST PER CLASS</b>	<b>\$75.00</b>	<b>\$30.00</b>	<b>\$274.00</b>	<b>\$798.00</b>	<b>\$249.00</b>	<b>\$249.00</b>	<b>\$718.00</b>	<b>\$100.00</b>	<b>\$85.00</b>	<b>\$35.00</b>	<b>\$429.00</b>	<b>\$650.00</b>	<b>\$2,925.00</b>	<b>\$1,938.16</b>	<b>\$249.00</b>
<b>Training Total</b>	<b>\$8,804.16</b>														

	Contractual costs	In-house costs	Comments
Database Provisioning for 911	8,256.00		If purchases made in prior year, make comments (noting year)
Addressing for 911	3,551.80		Frontier 6/30/14 High Country
<b>Subtotal</b>	<b>11,807.80</b>	<b>0.00</b>	

**Implemental Functions Total** **\$11,807.80**

#### Worksheet Total Expenditures

Eligible Phone & Furniture Worksheet	<b>\$17,143.80</b>
Eligible Software Worksheet	<b>\$12,787.40</b>
Eligible Hardware Worksheet	<b>\$385.00</b>
Eligible Training Worksheet	<b>\$8,804.16</b>
Eligible Implemental Functions Worksheet	<b>\$11,807.80</b>
<b>GRAND TOTAL ELIGIBLE EXPENDITURES:</b>	<b>\$50,928.16</b>

$$688 \times 12 = 8256$$

Attachment 4

**Mitchell County Central Communications**

**Mitchell County Approved FY2016 PSAP Budget**

This attachment pertains to question 11, 26, 27 and 29.



MITCHELL COUNTY  
Revenue Appropriations

Date : 06/22/15

Page : 286

Fund : 20 EMERGENCY TELEPHONE SYSTEM  
Dept : 3255 E-911

Appropriation for the Fiscal Year 2015-2016

APPROPRIATION CLASSIFICATION

3255.3000	NC 911 PSAP PAYMENT	221,977.00
3255.3300	WIRELESS E-911	0.00
3255.4000	E-911 CHARGES	0.00
3255.4200	ROAD SIGNING REIMBURSEMENT	0.00
3255.6000	PSAP GRANT	0.00
	DEPARTMENT TOTAL	221,977.00



MITCHELL COUNTY  
Revenue Appropriations

Date : 06/22/15

Page : 287

Fund : 20 EMERGENCY TELEPHONE SYSTEM  
Dept : 3435 INSURANCE REFUNDS

Appropriation for the Fiscal Year 2015-2016

APPROPRIATION CLASSIFICATION

3435.3000	INSURANCE REFUNDS	0.00
	DEPARTMENT TOTAL	0.00

MITCHELL COUNTY  
Revenue Appropriations

Date : 06/22/15

Page : 288

Fund : 20 EMERGENCY TELEPHONE SYSTEM  
Dept : 3831 LOCAL SHARED REVENUE

Appropriation for the Fiscal Year 2015-2016

APPROPRIATION CLASSIFICATION

3831.4920	INTEREST EARNED ON INVEST	8.00
	DEPARTMENT TOTAL	8.00

MITCHELL COUNTY  
Revenue Appropriations

Date : 06/22/15

Fund : 20 EMERGENCY TELEPHONE SYSTEM  
Dept : 3991 FUND BALANCE

Page : 289

Appropriation for the Fiscal Year 2015-2016

APPROPRIATION CLASSIFICATION

3991.9910	FUND BALANCE APPROPRIATED	0.00
	DEPARTMENT TOTAL	0.00

MITCHELL COUNTY  
Expenditure Appropriations

Date : 06/22/15

Fund : 20 EMERGENCY TELEPHONE SYSTEM  
Dept : 4325 E-911

Page : 290

Appropriation for the Fiscal Year 2015-2016

APPROPRIATION CLASSIFICATION

4325.1210	SALARIES	0.00
4325.1220	OVERTIME PAY	0.00
4325.1260	SALARIES	0.00
4325.1270	LONGEVITY PAY	0.00
4325.1280	CHRISTMAS BONUS	0.00
4325.1810	FICA MATCH	0.00
4325.1820	RETIREMENT MATCH	0.00
4325.1830	HOSPITAL INSURANCE/DISAB	0.00
4325.1840	DISABILITY INSURANCE	0.00
4325.1870	LONG TERM DISABILITY	0.00
4325.1890	LIFE INSURANCE	0.00
4325.2510	GAS AND OIL	0.00
4325.2600	DEPARTMENTAL SUPPLIES	0.00
4325.3110	TRAVEL MILEAGE	150.00
4325.3120	SUBSISTENCE	500.00
4325.3210	TELEPHONE	40,000.00
4325.3250	POSTAGE	0.00
4325.3310	POWER/UTILITIES	0.00
4325.3320	FUEL OIL	0.00
4325.3340	WATER	0.00
4325.3350	SEWAGE	0.00
4325.3360	TRASH COLLECTION	0.00
4325.3410	PRINTING	0.00
4325.3510	REPAIRS/BUILDINGS	0.00
4325.3520	MAINT/REPAIRS EQUIPMENT	20,000.00
4325.3910	ADVERTISING	0.00
4325.3920	LAUNDRY/DRY CLEANING	0.00
4325.3950	TRAINING/EDUCATIONAL	10,000.00
4325.4130	RENT	0.00
4325.4390	EQUIPMENT RENT	0.00
4325.4900	E-911 UPDATES	0.00
4325.4910	DUES AND SUBSCRIPTION	0.00
4325.4950	E-911 SIGNS	0.00
4325.4960	EQUIPMENT	0.00
4325.4970	RELOCATION	0.00
4325.6000	50% PUBLIC SAFETY NEED	0.00
4325.6900	CONTRACTED SERVICES	25,000.00
4325.8330	STATE GAS TAX REFUNDS	0.00
4325.8360	FEDERAL GAS TAX REFUNDS	0.00
	DEPARTMENT TOTAL	95,650.00

MITCHELL COUNTY  
Expenditure Appropriations

Date : 06/22/15

Fund : 20 EMERGENCY TELEPHONE SYSTEM  
Dept : 8125 CAPITAL OUTLAY

Page : 291

Appropriation for the Fiscal Year 2015-2016

APPROPRIATION CLASSIFICATION

8125.3410	SIGNS	0.00
8125.4900	DATABASE UPDATES	0.00
8125.5000	HEADSETS	0.00
8125.5100	OFFICE FURNITURE/EQUIPMEN	0.00
8125.5500	EQUIPMENT	126,335.00
8125.5800	EQUIPMENT	0.00
8125.5850	REMOTE GENERATOR	0.00
8125.5900	RENOVATION/GENERATOR	0.00
8125.5910	E-911 ANI/ALI	0.00
8125.5920	TCI TANDEM SWITCH	0.00
8125.6000	PSAP GRANT	0.00
8125.6100	50% PUBLIC SAFETY CAPITAL NEED	0.00
DEPARTMENT TOTAL		126,335.00

MITCHELL COUNTY  
Expenditure Appropriations

Date : 06/22/15

Page : 292

Fund : 20 EMERGENCY TELEPHONE SYSTEM  
Dept : 9110 EMERGENCY-9-1-1

Appropriation for the Fiscal Year 2015-2016

APPROPRIATION CLASSIFICATION

9110.7200	INTEREST	0.00
	DEPARTMENT TOTAL	0.00

MITCHELL COUNTY  
Expenditure Appropriations

Date : 06/22/15

Page : 293

Fund : 20 EMERGENCY TELEPHONE SYSTEM  
Dept : 9821 TRANSFER TO GENERAL FUND

Appropriation for the Fiscal Year 2015-2016

APPROPRIATION CLASSIFICATION

9821.9700	TRANSFER TO GENERAL FUND	0.00
	DEPARTMENT TOTAL	0.00
	FUND TOTAL REVENUES	221,985.00
	FUND TOTAL EXPENSES	221,985.00

Attachment 5

**Project Funding Request (table)**

This attachment pertains to question 26 and 27.



Project Components	Amount	Requested Funding	County Eligible Expense Contributions
Construction Cost and Contingency	\$2,147,079.00	\$2,147,079.00	
Computer Aided Dispatch System	\$197,961.00	\$197,961.00	
Administrative Telephone System	\$51,535.00	\$51,535.00	
9-1-1 Telephone System (CPE)	\$244,716.00	\$244,716.00	
Recording System	\$64,511.00	\$64,511.00	
Radio Consoles	\$334,808.00	\$334,808.00	
Radio Tower	\$211,000.00	\$211,000.00	
Netclock	\$11,766.00	\$11,766.00	
Uninterruptible Power Supply (UPS)	\$60,000.00	\$60,000.00	
9-1-1 Console Workstations / Chairs	\$138,164.00	\$138,164.00	
Network/Hardware/Structural Cabling	\$147,736.00	\$147,736.00	
Grounding	\$14,300.00	\$14,300.00	
Distributed Antennae System (DAS)	\$110,000.00	\$110,000.00	
Audiovisual	\$17,500.00	\$17,500.00	
Access Control/Site Security Monitoring Equipment	\$78,234.00	\$78,234.00	
Access Control Hardware/Software	\$25,000.00	\$25,000.00	
Fiber Connectivity Services	\$240,000.00	\$240,000.00	
Office Furniture	\$17,258.00	\$17,258.00	
Generator	\$53,475.00	\$53,475.00	
Consultative and Professional Services	\$387,521.00	\$387,521.00	
Technology Contingency	\$240,548.50	\$240,548.50	
			\$600,000.00
<b>TOTAL</b>	<b>\$4,793,112.50</b>	<b>\$4,193,112.50</b>	<b>\$600,000.00</b>

Attachment 6

**Assessment for Mitchell County Central Communications**

This attachment pertains to question 9 and 27.



# Assessment for Mitchell County Communications

## FINAL REPORT

SUBMITTED DECEMBER 2015 TO:  
MITCHELL COUNTY, NORTH CAROLINA



**MissionCriticalPartners**

4801 Glenwood Ave, Suite 200 | Raleigh, NC 27612 | 888.8.MCP911 or 919-390-0321 | [www.MCP911.com](http://www.MCP911.com)



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## EXECUTIVE SUMMARY

Mission Critical Partners, Inc. (MCP) is pleased to present Mitchell County, North Carolina, with its assessment of Mitchell County Communications operations. Mitchell County contracted MCP to perform the operational assessment in anticipation of submitting a grant application to the North Carolina 911 Board (NC 911 Board) in 2016.

Mitchell County Communications is the primary public safety answering point (PSAP) for Mitchell County, providing call handling and dispatch services for three law enforcement agencies, seven fire services and countywide emergency medical services (EMS). The current center is located on County-owned property immediately adjacent to the County administrative offices in Bakersville, and is in various states of disrepair.

In addition to the director, Mitchell County Communications has an authorized strength of seven full-time operational personnel (supervisors and telecommunicators) and five part-time personnel. Full-time staff work 36 hours one week, followed by 42 hours the next. Part-time staff work the additional hours.

The center operates in a vertical dispatch configuration; that is, there is no division of responsibilities between the call take and dispatch functions. Telecommunicators handle a call from beginning to end, and at the same time are responsible for dispatching first responders and monitoring radio traffic. Mitchell County Communications uses emergency medical, police, and fire dispatch protocols from the International Academies of Emergency Dispatch (IAED).

With the current configuration of the communications center and to maintain a minimum of two positions at all times in accordance with best practice, a full-time staff complement of 11–12 operational personnel (telecommunicators) is recommended. This can be met through full-time staff only or a combination of full-time and part-time (equivalent to the recommended number of full-time personnel). The County will need to determine the composition that is in its best interest. Other than the director, at this time, supervisory personnel are not warranted. However, the director should not be responsible for filling shift vacancies in the center due to other administrative duties. If the director is consistently filling a shift vacancy, this is indicative of a larger problem; authorized staffing may not be appropriate, the part-time program may not be effective, the schedule configuration may not be optimal, or the issue is a combination thereof. This should be addressed as soon as possible.

Standard operating procedures (SOPs) are a critical component of a communications center's operations as they serve to reduce the possibility of human error and provide guidelines for employees to follow. Mitchell County Communications' operational policies and procedures are adequate to meet the general procedural requirements for 9-1-1 operations. However, the policies and procedures lack organization, making it difficult for telecommunicators to quickly reference an appropriate procedure. There is also no clearly defined path for development, change, or implementation of new procedures. MCP recommends the establishment of a users' committee to review, update, and develop SOPs for Mitchell County Communications.



A quality assurance/quality improvement (QA/QI) program is a best practice and is an essential component of 9-1-1 communications processes as it can improve the level of service provided to citizens and improve overall PSAP performance. A well-developed and defined QA program ensures consistency of operations and identifies problems and corrective actions to resolve the issues. In today's 9-1-1 environment, having a QA program is the recognized standard of care. IAED has established call review rules for agencies using the Academies' protocols. MCP recommends that Mitchell County Communications develop a QA/QI program that is in accordance with IAED review rules. MCP also recommends the creation of a part-time QA/QI specialist position to review calls, provide feedback on performance, and ensure compliance with best practices.

MCP conducted an assessment of the critical technology in use in Mitchell County Communications. Of greatest concern is the computer aided dispatch (CAD) system, with which staff have many issues. Due to the perceived lack of vendor support, the County elected to not renew its maintenance contract. The lack of maintenance on such a critical software system is an area of concern. MCP acknowledges that the County has had negative experiences with the vendor; however, failing to maintain this vital component exposes Mitchell County to risk and opens the door for liability. MCP recommends that the County renew the maintenance agreement for one year and simultaneously begin developing specifications for a new CAD system. It is in the County's best interest to attempt to resolve the current issues to reduce risk to both telecommunicators and responders.

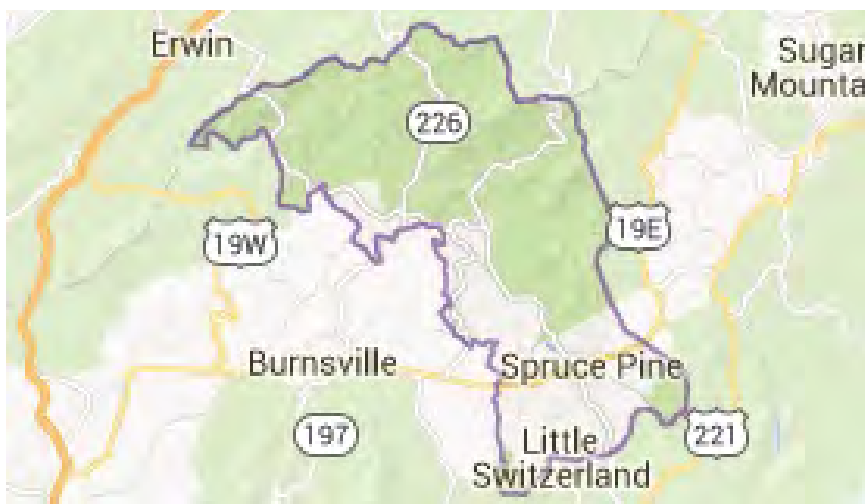
In anticipation of a grant application submittal, Mitchell County identified two possible sites for a new facility: the site of the existing communications center and Sheriff's Office as well as the Mitchell County Courthouse complex. MCP partnered with SCHRADERGROUP architecture, LLC (SGA) to provide a preliminary conceptual design, site plan, and programming for the two locations to assist the County in determining the most suitable location for a new facility. As the facility housing Mitchell County Communications is rapidly approaching end of life, Mitchell County should seek funding for the construction of a new facility that can sustain 9-1-1 operations into the foreseeable future.

Mitchell County Council and administration should be applauded for taking the initiative to conduct an assessment of operations as the initial step for grant application to the NC 911 Board for the construction of a new communications facility. While the NC 911 Board grant process is competitive, the challenges facing Mitchell County Communications are great. The successful outcome of a grant submission may provide much needed funding for a new facility.



## 1. INTRODUCTION

Mitchell County is located in the Blue Ridge Mountains in the western part of North Carolina. The county encompasses 221 square miles with Bakersville as the county seat. According to the US Census Bureau, Mitchell County's 2014 population was estimated at 15,311, a decrease of 1.7 percent from the 2010 Census of 15,579<sup>1</sup>. Bakersville and Spruce Pines are the only municipalities in the county. A large portion of the county is the protected areas of the Pisgah National Forest and the Blue Ridge Parkway.



**Figure 1 – Mitchell County Area**

Mitchell County Communications is the only PSAP within the county. Bakersville Police Department and Spruce Pine Police Department provide law enforcement services within their respective towns. Mitchell County Sheriff's Office provides law enforcement services to the unincorporated areas of the county. Fire services are provided by seven departments: Bakersville Volunteer Fire and Rescue, Bradshaw Fire Department, Buladean Volunteer Fire Department, Fork Mountain Fire Department, Ledger Volunteer Fire and Rescue, Parkway Fire and Rescue, and Spruce Pine Volunteer Fire and Rescue. Emergency medical services are provided by Mitchell County EMS.

## 2. BACKGROUND

### 2.1. ENHANCED 9-1-1

In 1989, the Public Safety Telephone Act (North Carolina General Statute Chapter 62A) became law and recognized 9-1-1 as the toll-free number for the public to reach emergency services within the state. The Act defines a PSAP as "[t]he public safety agency that receives an incoming 911 call and

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<sup>1</sup> <http://quickfacts.census.gov/qfd/states/37/37121.html>





dispatches appropriate public safety agencies to respond to the call.”<sup>2</sup> The Act further defines a Primary PSAP as “[t]he first point of reception of a 911 call by a public safety answering point.”

Mitchell County Communications is the primary PSAP for Mitchell County, receiving 9-1-1 calls for the towns of Bakersville and Spruce Pine and the unincorporated areas of the county.



**Figure 2 – Mitchell County Communications**

All counties in North Carolina provide enhanced 9-1-1 (E9-1-1) and wireless Phase I and Phase II services. Mitchell County Communications receives automatic number identification (ANI) and automatic location identification (ALI) information for all wireline calls placed to 9-1-1. Wireline 9-1-1 calls originate from a subscriber's telephone through the serving telephone central office. The central office routes a call through a selective router and completes the call to the appropriate primary PSAP based on the calling party's phone number and associated street address, which is linked to an emergency service number (ESN). Dedicated 9-1-1 centralized automatic message accounting (CAMA) trunks provide connectivity between the tandem switch (selective router) and communications center. Voice communications with a 9-1-1 caller is provided by a 9-1-1 center. The phone number originating the 9-1-1 call and the caller's location are displayed at Mitchell County Communications. The caller's originating phone number is used to retrieve the caller's location information from the County's stand-alone ALI (SALI) database.

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<sup>2</sup> [http://www.ncleg.net/EnactedLegislation/Statutes/HTML/ByChapter/Chapter\\_62a.html](http://www.ncleg.net/EnactedLegislation/Statutes/HTML/ByChapter/Chapter_62a.html)



For 9-1-1 wireless calls, PSAPs that are Federal Communications Commission (FCC) Phase I-compliant receive the caller's wireless number and the address of the tower transmitting the call. PSAPs that are FCC Phase II-compliant receive the caller's wireless number and location, based on global positioning system (GPS) information transmitted to the PSAP from the wireless service provider (WSP). Mitchell County is wireless Phase II-compliant.

Delivery of wireless 9-1-1 calls to Mitchell County Communications is accomplished utilizing network facilities provided by Frontier Communications and the different WSPs. The routing of a wireless 9-1-1 call is more complicated than that of a wireline 9-1-1 call, as the subscriber is mobile and the technology in place today to route a wireless 9-1-1 call is still somewhat limited.

A wireless 9-1-1 call originates from a subscriber's device and is transmitted via a radio signal over the wireless carrier's network to a base station/antenna located at one of the respective carrier's tower sites. The base station sends the 9-1-1 call to the WSP's mobile switching center (MSC) for proper call processing. The MSC uses a service-control-point database to assign an emergency service routing key (ESRK) number based on the tower site from which the call originated. A primary PSAP designation is assigned to each ESRK in the database. From the MSC, the 9-1-1 call is connected to the Frontier tandem/selective routers within the telephone network. The call is then routed from the tandem switch/selective router and passed to Mitchell County Communications.

Mitchell County Communications has four dedicated 9-1-1 lines for wireline and wireless calls.

## **2.2. NEXT GENERATION 9-1-1**

While many think Next Generation 9-1-1 (NG9-1-1) is still three to five years away, in reality, NG9-1-1 is here now, and in various stages of implementation across the country.

NENA defines NG9-1-1 as a system comprised of Emergency Services Internet Protocol (IP) networks (ESInets), IP-based software services and applications, databases, and data management processes that are interconnected to PSAP premise equipment. The system provides location-based routing to the appropriate emergency entity. The system uses additionally available data elements and business policies to augment PSAP routing. The system delivers geodetic and/or civic location information and the call back number.

The NG9-1-1 system supports the transfer of calls to other NG9-1-1-capable PSAPs or other authorized entities based on and including accumulated data. NG9-1-1 provides standardized interfaces for call and message services, processes all types of emergency calls including non-voice (multimedia) messages, and acquires and integrates additional data useful to call routing and handling for appropriate emergency entities. NG9-1-1 supports all E9-1-1 features and functions and meets current and emerging needs for emergency communications from a caller to public safety entities.



### 3. STANDARDS AND ACCREDITING ORGANIZATIONS

Communications centers throughout the country adopt and use industry standards and best practices to assure the effectiveness of the agency and that the best possible service is provided to citizens and first responders. Measurable standards create an objective view of 9-1-1 operations and provide for consistent interactions with the public and first responders.

Standards and best practices most often used in 9-1-1 communications centers are from the Association of Public-Safety Communications Officials-International (APCO) and the National Emergency Number Association (NENA). Also used often are the National Fire Protection Association (NFPA) standards, specifically 1221, *Standard for the Installation, Maintenance, and Use of Emergency Services Communications Systems*, and 1061, *Professional Qualifications for Public Safety Telecommunications Personnel*; and standards from the Commission on Accreditation for Law Enforcement Agencies (CALEA), particularly *Standards for Public Safety Communications Agencies*. APCO, NENA, and NFPA are each an American National Standards Institute (ANSI)-accredited standards development organization (SDO).

#### 3.1. STANDARDS ORGANIZATIONS

APCO “is the world’s oldest and largest organization of public safety communications professionals and supports the largest U.S. membership base of any public safety association. It serves the needs of public safety communications practitioners worldwide – and the welfare of the general public as a whole – by providing complete expertise, professional development, technical assistance, advocacy and outreach.”<sup>3</sup> APCO has undertaken many projects over the years. Two notable projects are Project 25 (P25), the development of standards for digital telecommunications technology, and Project 33, development of a telecommunicator training standard. In Project 33, APCO collaborated with NENA “to evaluate what type of standardized training programs (if any) each state had. The information gathered helped APCO build the foundation for the National Public Safety Telecommunicator Training Standard, which is the minimum standard used today.”<sup>4</sup>

NENA, a non-profit corporation, is dedicated to fostering “the technological advancement, availability and implementation of a universal emergency telephone number system.”<sup>5</sup> NENA has several topic-specific committees that develop recommended 9-1-1 center model recommendations/standards and other operational information documents. NENA model recommendations/standards give 9-1-1 centers the tools they need to maintain a consistent level of service and work in relation to their peers in neighboring counties and states.

NENA 56-005, *9-1-1 Call Answering Standard*, states, “Ninety percent (90%) of all 9-1-1 calls arriving at the Public Safety Answering Point (PSAP) shall be answered within ten (10) seconds during the busy

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<sup>3</sup> <https://www.apcointl.org/about-apco.html>

<sup>4</sup> <https://www.apcointl.org/about-apco/apco-projects.html>

<sup>5</sup> <http://www.nena.org/?page=Mission>



hour (the hour each day with the greatest call volume, as defined in the NENA Master Glossary 00-001). Ninety-five (95%) of all 9-1-1 calls should be answered within twenty (20) seconds.”<sup>6</sup>

While NENA defines the call answering priority, NENA does not define further call processing times.

NFPA has higher standards for call processing. NFPA, also a non-profit organization, “develops, publishes, and disseminates more than 300 consensus codes and standards intended to minimize the possibility and effects of fire and other risks.”<sup>7</sup> NFPA 1221, Section 7.4.1 states, “Ninety-five percent of alarms<sup>[8]</sup> received on emergency lines shall be answered within 15 seconds, and 99 percent of alarms shall be answered within 40 seconds.”<sup>9</sup> There is speculation within the industry that NENA may align its call answering standard with NFPA’s in the future.

NFPA further defines call processing times, which begin when the call is answered and end when dispatch starts. Section 7.4.2 states, “With the exception of the call types identified in 7.4.2.2, 90 percent of emergency alarm processing shall be completed within 64 seconds, and 95 percent of alarm processing shall be completed within 106 seconds.”<sup>10</sup>

Section 7.4.2.2 states, “Emergency alarm processing for the following call types shall be completed within 90 seconds 90 percent of the time and within 120 seconds 99 percent of the time:

- (1) Calls requiring emergency medical dispatch questioning and pre-arrival medical instructions
- (2) Calls requiring language translation
- (3) Calls requiring the use of a TTY/TDD<sup>[11]</sup> device or audio/video relay services
- (4) Calls of criminal activity that require information vital to emergency responder safety prior to dispatching units
- (5) Hazardous material incidents
- (6) Technical rescue
- (7) Calls that require determining the location of the alarm due to insufficient information
- (8) Calls received by text message”<sup>12</sup>

NFPA does not address law enforcement call processing and dispatching times, allowing the jurisdictions to establish time frames for dispatch in accordance with respective SOPs.

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<sup>6</sup> [http://c.ymcdn.com/sites/www.nena.org/resource/collection/ABEAA8F5-82F4-4531-AE4A-0AC5B2774E72/NENA\\_56-005\\_9-1-1\\_Call\\_Answering\\_Standard.pdf](http://c.ymcdn.com/sites/www.nena.org/resource/collection/ABEAA8F5-82F4-4531-AE4A-0AC5B2774E72/NENA_56-005_9-1-1_Call_Answering_Standard.pdf), page 8 of 12.

<sup>7</sup> <http://www.nfpa.org/about-nfpa>

<sup>8</sup> NFPA 1221 defines an alarm as “a signal or message from a person or device indicating the existence of an emergency or other situation that requires action by an emergency response agency.”

<sup>9</sup> <http://www.nfpa.org/codes-and-standards/document-information-pages?mode=code&code=1221>

<sup>10</sup> Ibid.

<sup>11</sup> Teletypewriter/Telecommunications Device for the Deaf

<sup>12</sup> <http://www.nfpa.org/codes-and-standards/document-information-pages?mode=code&code=1221>



### 3.2. ACCREDITING ORGANIZATIONS

Standards are the cornerstone of accreditation for public safety agencies. While NENA, APCO, and NFPA are not accrediting bodies, CALEA, the Commission on Fire Accreditation International (CFAI), and the Commission on Accreditation of Ambulance Services (CAAS) are, as is IAED for entities utilizing the Academies' protocols. Only CALEA and IAED accredit communications centers.

CALEA, a “credentialing authority through the joint efforts of law enforcement's major executive associations”<sup>13</sup> accredits law enforcement agencies and 9-1-1 communications centers. CALEA's “accreditation program provides public safety agencies an opportunity to voluntarily demonstrate that they meet an established set of professional standards which:

- Require an agency to develop a comprehensive, well thought out, uniform set of written directives. This is one of the most successful methods for reaching administrative and operational goals, while also providing direction to personnel.
- Provide the necessary reports and analyses a CEO needs to make fact-based, informed management decisions.
- Require a preparedness program be put in place—so an agency is ready to address natural or man-made critical incidents.
- Are a means for developing or improving upon an agency's relationship with the community.
- Strengthen an agency's accountability, both within the agency and the community, through a continuum of standards that clearly define authority, performance, and responsibilities.
- Can limit an agency's liability and risk exposure because it demonstrates that internationally recognized standards for law enforcement have been met, as verified by a team of independent outside CALEA-trained assessors.
- Facilitates an agency's pursuit of professional excellence.”<sup>14</sup>

CALEA standards define what needs to be done, not how agencies are to accomplish it.

CFAI administers the Center for Public Safety Excellence's (CPSE's) accreditation program for fire and emergency service organizations. CPSE, a non-profit corporation, “promotes the continuous quality improvement of fire and emergency service agencies that serve communities worldwide by providing training and career resource information...CPSE supports and encourages agencies and personnel to meet international performance standards through various programs and the work of two commissions...”<sup>15</sup>

CAAS is “an independent Commission that established a comprehensive series of standards for the ambulance service industry.”<sup>16</sup> CAAS standards are “designed to help increase operational efficiency

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<sup>13</sup> <http://www.calea.org/content/commission>

<sup>14</sup> Ibid.

<sup>15</sup> <http://www.publicsafetyexcellence.org/about-cpse/cpse-mission-goals.aspx>

<sup>16</sup> <http://www.caas.org/>





and decrease risk and liability across the entire spectrum of the organization.”<sup>17</sup> While CAAS does not accredit communications centers, Section 204 of the standards addresses communications centers, stating, “[e]fficient call taking, effective resource deployment, and continuous communications capabilities are required to maintain an effective EMS agency.”<sup>18</sup> There are seven applicable areas:

- 204.01 Policies and Procedures
- 204.02 Contingency Plans
- 204.03 Preventive Maintenance
- 204.04 Training
- 204.05 Licensure
- 204.06 Communications Inter-Agency Dialogue
- 204.07 Communications Performance Improvement

“IAED is a non-profit standard-setting organization promoting safe and effective emergency dispatch services world-wide. Comprised of three allied Academies for medical, fire and police dispatching, the IAED supports first-responder related research, unified protocol application, legislation for emergency call center regulation, and strengthening the emergency dispatch community through education, certification, and accreditation.”<sup>19</sup> Entities that utilize IAED’s internally recognized protocols can apply to become an Accredited Center for Excellence (ACE).

Accreditation is a voluntary path that many first responder agencies pursue. While the agencies within Mitchell County are not accredited at this time, if the agencies pursue individual accreditation in the future, Mitchell County Communications will be required to meet or exceed the applicable standards of the respective accrediting body.

### **3.3. PROTOCOLS**

IAED defines a protocol as “a highly-defined procedure placed into a reference system...designed to lead the calltaker through a predictable, repeatable, and verifiable process for a specific situation.”<sup>20</sup> “Protocols have become an integral part of modern day, emergency dispatch operations. Protocols reduce variance, ensure a continuity of care, reduce liability, standardize response decisions, and provide a basis for performance measurement and quality improvement efforts.”<sup>21</sup>

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<sup>17</sup> <http://www.caas.org/benefits>

<sup>18</sup> <http://www.caas.org/caas-standards/content-summaries>

<sup>19</sup> <http://www.emergencydispatch.org/>

<sup>20</sup> The National Academies of Emergency Dispatch® (2011) *Emergency Telecommunicator Course Manual*, Edition 3. Salt Lake City, Utah: Priority Press.

<sup>21</sup> <http://www.9-1-1magazine.com/Patterson-Protocols-0804>



Protocols involve a set of scripted questions designed to elicit as much information from the caller as possible.<sup>22</sup> At case entry, essential information is gathered in a standardized format, including the address of the incident, the caller's phone number and name, and the problem. Once the problem or "Chief Complaint" has been identified, questioning continues to help assess scene safety, prioritize the response, select appropriate instructions for the caller, and provide pertinent information for responders. The questions are designed to be asked verbatim and in order. Where the answer is obvious, questions may be skipped. Post-dispatch instructions are designed to ensure responders' and the caller's safety. If necessary, pre-arrival instructions—potentially life-saving, scripted instructions—are provided.

Mitchell County Communications uses IAED's Police Priority Dispatch System (PPDS), Fire Priority Dispatch System (FPDS), and Medical Priority Dispatch System (MPDS) protocols.

### **3.4. QUALITY ASSURANCE**

A QA/QI program is an essential component of protocol usage as it can improve the level of service provided to citizens, and is a best practice to improve overall PSAP performance. APCO provides the following definition for a Quality Assurance and Improvement Program: "An on-going program providing at a minimum, the random case review evaluating emergency dispatch performance, feedback of protocol compliance, commendation, retraining and remediation as appropriate, and submission of compliance data to the Agency."<sup>23</sup>

A well-developed and defined QA program ensures consistency of operations and identifies problems and corrective actions to resolve the issues. In today's 9-1-1 environment, having a QA program is the recognized standard of care. Through a QA program, calls are reviewed, feedback on performance is provided, and compliance with policies, procedures, standards, and best practices is ensured.

## **4. OPERATIONAL CONFIGURATION**

Mitchell County Communications (or the center) is overseen by a director who reports to the Mitchell County Manager. The director is the only administrative position assigned to the center. Duties include general support and management, scheduling, covering shift vacancies, hiring, discipline, policy development, training, QA functions, 9-1-1 database administration, and public education. Each of these operational areas demands a great deal of attention.

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<sup>22</sup> While there are numerous vendors for dispatch protocols, the terminology and information referenced is from Priority Dispatch; other vendors may have slightly differing terms and sequencing. This is just intended to provide an example.

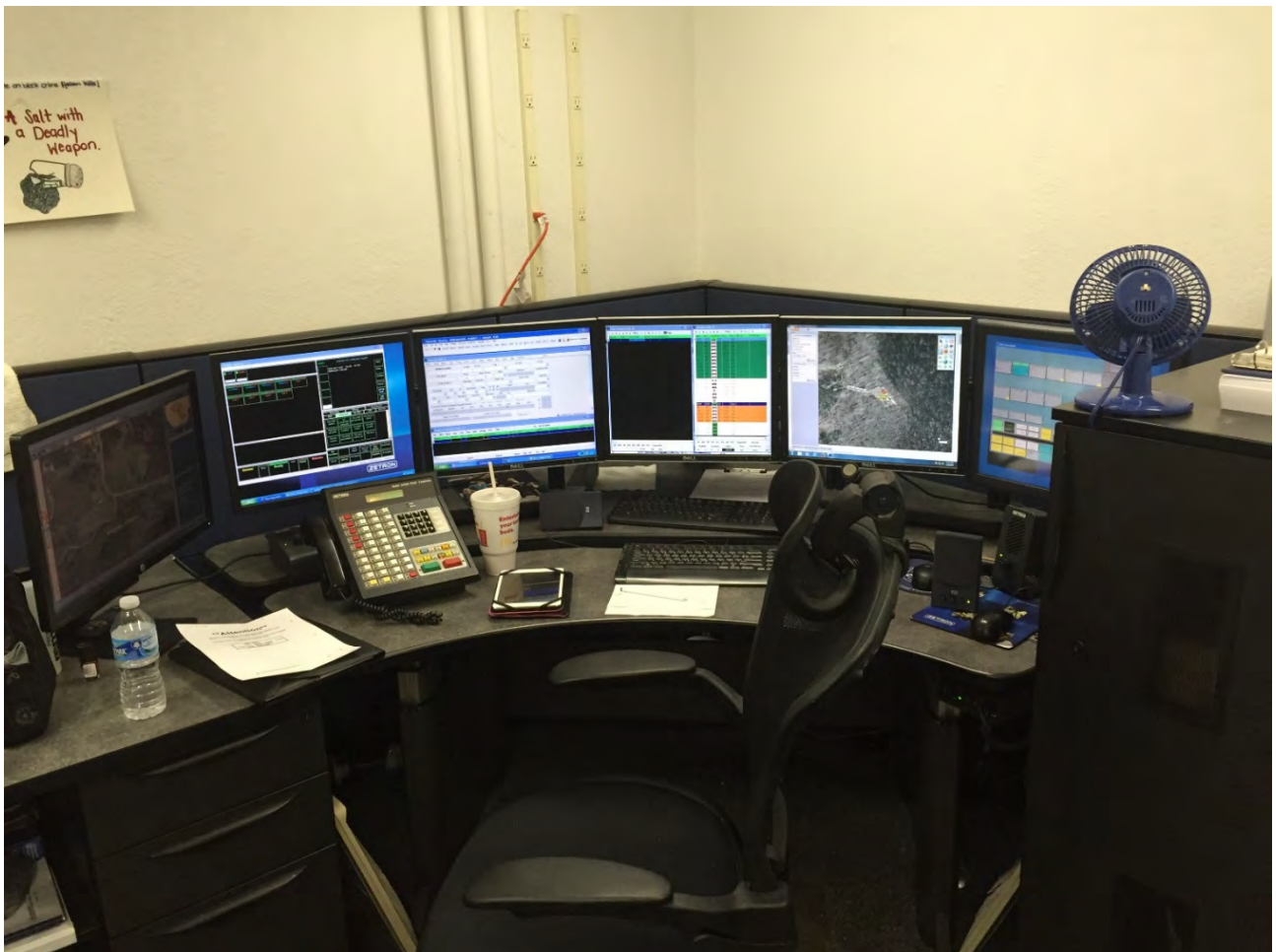
<sup>23</sup> <https://www.apcointl.org/doc/911-resources/apco-standards/75-minimum-training-standards-for-public-safety-telecommunicators/file.html>, section 1.2.22, page 14.



Authorized strength is seven full-time and five part-time telecommunicators. Minimum staffing is two telecommunicators at all times. The director must rely heavily on the part-time staff to support minimum staffing. Occasionally, the center may fall below minimum staffing, leaving one telecommunicator on duty.

Telecommunicators are assigned 12-hour shifts each day, with the exception of Tuesday, when staff work an 8-hour shift. Full-time staff work 36 hours one week, followed by 42 hours the next. Part-time staff work the additional hours. Telecommunicators are assigned to day shift or night shift and unless a special circumstance arises do not rotate shifts.

Mitchell County Communications has three workstations equipped for call take and dispatch activities. Figure 3 is representative of each workstation.



**Figure 3 – Dispatch Workstation**

Mitchell County provides services to three law enforcement agencies, eight fire departments, one EMS agency, and numerous other agencies. Two dispatch positions must be staffed 24 hours a day, 7 days





a week. Each position is configured for law enforcement, fire and EMS. There is no dedicated call taker assigned to a shift with responsibility only for handling incoming calls.

Mitchell County Communications uses protocols from IAED for emergency police dispatch (EPD), emergency fire dispatch (EFD), and emergency medical dispatch (EMD), ensuring consistency among callers.

In 2014, the center received 5,090 9-1-1 calls, of which 371 were abandoned.

**Table 1 – 2013–2014 Call Volume**

	2014	Abandoned	2014 Totals	2013	Abandoned	2013 Totals
9-1-1 Calls	5,090	371	5,461	5,260	404	5,664
7-/10-digit Calls	25,441	21	25,462	25,881	13	25,894
Outbound Calls	15,860		15,860	14,706		14,706
<b>TOTALS</b>	<b>46,391</b>	<b>392</b>	<b>46,783</b>	<b>45,847</b>	<b>417</b>	<b>46,264</b>

In 2013, 99.80 percent of all 9-1-1 calls were answered in less than 40 seconds; 99.18 percent were answered in less than 15 seconds and 94.69 percent were answered in less than 10 seconds. In 2014, 99.95 percent of all 9-1-1 calls were answered in less than 40 seconds; 99.54 percent were answered in less than 15 seconds and 98.65 percent were answered in less than 10 seconds.

According to data provided by Mitchell County, it takes telecommunicators approximately 105 seconds, on average, to process a 9-1-1 call (pickup to release), and approximately 75 seconds to process an administrative (non-emergency) call.

Table 2 depicts the incident volume for the agencies for 2013 and 2014.

**Table 2 – 2013–2014 Incident Volume**

Agency	2014			2013		
	Law	Fire	EMS	Law	Fire	EMS
Bakersville Fire and Rescue		514			483	
Bakersville Police Department	210			335		
Bradshaw Fire Department		163			136	
Blue Ridge Parkway	11			6		
Buladean Fire Department		174			178	
Department of Transportation	50			60		
Emergency Management	47			55		
Fork Mountain Fire and Rescue		273			254	
Ledger Fire Department		194			175	



Agency	2014			2013		
	Law	Fire	EMS	Law	Fire	EMS
Magistrate	192			138		
Mitchell County Emergency Medical Services			2,592			2,579
Mitchell County Sheriff's Office	8,787			6,937		
Mutual Aid	373			391		
North Carolina Fire Service		61			31	
North Carolina Highway Patrol	356			356		
Parkway		1			7	
Parkway Fire and Rescue		633			563	
Probation	2			6		
State Bureau of Investigation				7		
Spruce Pine Fire Department		834			732	
Spruce Pine Police Department	3,570			2,794		
<b>TOTALS</b>	13,117	3,328	2,592	10,573	3,071	2,579

It should be noted that an incident with multiple agencies assigned is counted in each agency's statistics; thus the incident numbers are higher than actual. There is little change in fire and EMS incidents between 2013 and 2014. While law enforcement calls show an increase of 24 percent, the number of incidents is low (an average of 1.5 an hour).

Mitchell County Communications operates in a vertical dispatch configuration; that is, there is no division of responsibilities between the call take and dispatch functions. Telecommunicators handle a call from beginning to end, and at the same time are responsible for dispatching first responders and monitoring radio traffic. Many smaller centers operate in this configuration as call and incident volumes do not necessitate the need for horizontal operations (separate call take and dispatch responsibilities), which is often cost prohibitive. In a vertical configuration, at times, however, staff must determine which takes precedence—providing pre-arrival instructions in life-threatening situations or dispatching responders. Being able to rely on fellow co-workers is a plus in these situations.

Telecommunicators receive incoming calls for service on four 9-1-1 lines and five administrative lines, and dispatch and monitor radio traffic on multiple talkgroups on the very high frequency (VHF) radio system and the North Carolina Voice Interoperability Plan for Emergency Responders (VIPER) radio system. Telecommunicators run driver's license and registration queries, as well as warrant checks, for field units through the State Bureau of Investigation (SBI) Division of Criminal Information (DCI) and National Crime Information Center (NCIC) databases, and monitor and respond to NCIC/DCI requests from other agencies.

Mitchell County Communications indicated that discussions have been held with McDowell County to enter into agreements to provide back-up 9-1-1 operations to the other. The details of what this would



entail are only in the preliminary stages. MCP recommends that discussions continue to determine where operational procedures and technology may overlap, and what would be necessary to provide back-up capabilities.

## 5. STAFFING

MCP's staffing analysis involves a multimodal approach that takes into account workload, coverage of necessary operational positions, and performance metrics. Statistical calculations are balanced with operational logistics to identify how many personnel are needed for a PSAP to achieve its performance goals while providing efficient and effective service. Mitchell County Communications provided statistical incident, call volume, and personnel data for MCP's review.

MCP uses NENA's staffing tool in concert with Erlang C calculations to assist in projecting the number of PSAP telecommunicators (call takers, dispatchers, and supervisors) required to efficiently answer and dispatch emergency and non-emergency calls for law enforcement, fire, and EMS agencies. NENA's staffing tool is a formalized system that takes into account call volume and other PSAP-specific data, such as incident volume and employee leave, to calculate baseline staffing needs. MCP analyzes the resulting data with a respective center's operational configuration to determine staffing requirements.

NENA's staffing tool has two different shift models – 8-hour shifts and 12-hour shifts – and two different determination methods – volume-based and coverage-based. Volume-based staffing calculates the baseline number of staff required to handle the volume of the respective incidents, such as fire calls. When incident volume is low, but a position must be covered regardless, coverage-based staffing is used to calculate the baseline number of personnel required to staff the respective position(s).

Many factors play a role in determining appropriate staffing levels, including available work hours, utilization, and attrition rates. Available work hours are the number of hours a telecommunicator (call takers and dispatchers) is available to work during the course of a year. There are many sub-factors to this calculation, including leave usage; i.e., any time that the employee is away from their assigned duties. This time includes vacation, holiday, sick, and personal leave; training; military leave; and other activities.

In 2014, Mitchell County full-time telecommunicators used 1,072 hours of leave; this averages approximately four weeks of leave (less than 20 days) per person. This does not imply that each person used this amount of respective leave; some may have used less, some may have used more. This leave usage is fairly low; according to an August 2013 U.S. Bureau of Labor Statistics publication, the average number of paid leave days for 5 years of service in the private industry is 30; 10 years is 34 days, while 20 years is 38 days.<sup>24</sup>

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<sup>24</sup> <http://www.bls.gov/opub/btn/volume-2/paid-leave-in-private-industry-over-the-past-20-years.htm>



Utilization is a subjective number, but is designed to provide an estimate of the time per shift that a telecommunicator should be busy providing call handling and dispatching services. Breaks and meals are subtracted from the shift length, as is time spent doing other work-related activities, such as filing paperwork or decompressing after a stressful incident. Ideally, utilization should be more than 85 percent, indicating that staff do not have extraneous duties. In Mitchell County, telecommunicators take breaks as needed or when time is available. As such, Mitchell County Communications' utilization rate is high—95 percent. While staff have duties other than call taking and dispatching, this is typical in smaller centers.

Attrition is also calculated. Data was collected for three years and includes the highest number of employees for a given year and the number of staff that left voluntarily or involuntarily. The result is the attrition rate. The national average for recent years is estimated to be approximately 13 percent; however, MCP is aware of several centers whose attrition rate has been higher than 15 percent. Between 2012 and 2014, Mitchell County Communications' average attrition rate for full-time staff was 33.33 percent. While this number seems high, with a full-time staff of six telecommunicators, even one telecommunicator leaving creates an attrition rate of 17 percent (rounded).

Staffing calculations also must consider performance metrics. Performance metrics measure the operational efficiency of a PSAP with targeted goals and established standards. MCP uses performance metrics and national standards to ascertain how staffing may be positively or negatively affecting PSAP operations.

The most common metric involves the average time it takes a PSAP to answer its incoming emergency calls. PSAPs typically try to align their call answering goals to either NENA (90 percent of 9-1-1 calls answered within 10 seconds during the busy hour and 95 percent 9-1-1 calls answered within 20 seconds) or NFPA (95 percent answered within 15 seconds and 99 percent answered within 40 seconds). As noted earlier, in 2014, 99.95 percent of all 9-1-1 calls were answered in less than 40 seconds; 99.54 percent were answered in less than 15 seconds and 98.65 percent were answered in less than 10 seconds. Mitchell County Communications is meeting both standards.

Another metric is the abandoned call rate. There are many reasons for abandoned calls, including those who realized they have misdialed. When staff members are on another line, incoming calls cannot be answered right away. Regardless of the reason, this creates additional work as staff must try to re-establish contact with the caller to determine if there is an actual emergency.

Every center will experience abandoned calls; the goal is to keep them as low as possible. There is no industry standard for abandoned calls. From MCP's experience, an abandoned call rate of 8 percent or less is ideal and attainable when a center is appropriately staffed. MetricNet, a performance benchmarking company in McLean, Virginia, for information technology and call centers, suggests an abandoned call rate of 4 percent to 7 percent<sup>25</sup>; while their focus is on the service industry, not the 9-1-1 industry, there is a correlation between the two. Both industries are answering calls from the

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<sup>25</sup> <http://www.metricnet.com/call-abandonment-rate>



public in response to their stated mission or objective. Mitchell County Communications' abandoned call rate is 6.8 percent.

## 5.1. TELECOMMUNICATORS

Mitchell County Communications is currently authorized for seven full-time operational positions—excluding the director—and five part-time positions.

NFPA 1221 (2016 Edition), Section 7.3.1 states, “There shall be a minimum of two telecommunicators on duty and present in the communications center at all times.”<sup>26</sup> This is especially important when a communications center provides pre-arrival instructions to callers, as does Mitchell County. One telecommunicator could potentially be providing life-saving instructions and be unable to answer, or dispatch, calls for service.

Taking all factors into consideration with the current configuration of the communications center and to maintain a minimum of two positions at all times in accordance with best practice, **a full-time staff complement of 11–12 operational personnel** (telecommunicators) **is recommended**. This can be met through full-time staff only or a combination of full-time and part-time.

In Mitchell County, staffing two positions 24 hours a day, 7 days a week equates to 672 hours of work time<sup>27</sup>. Full-time staff work 36 hours one week and 42 hours the following week; 78 hours per person every two weeks. Seven full-time telecommunicators thus yields 546 hours of work time (assuming no leave), producing a shortage of 126 hours, approximately 25 hours every two weeks for each of the five authorized part-time personnel. Leave usage only increases the shortage, increasing the reliance on part-time personnel, which may not be available.

Generally part-time staff are limited in the number of hours they are allowed to work annually. Typically it takes two part-time employees to equal one full-time employee, assuming a 20-hour work week for part-time staff.

The County will need to determine what is in its best interest in terms of employee composition. If the County elects to remain at an authorized strength of seven full-time employees and continue to supplement with part-time staff, the authorized strength of part-time staff will need to increase based on the full-time recommended complement and the number of productive work hours<sup>28</sup> available from the program.

If attrition is addressed, a full-time staff complement of 10–12 is recommended.

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<sup>26</sup> <http://www.nfpa.org/codes-and-standards/document-information-pages?mode=code&code=1221>

<sup>27</sup> Two positions staffed 24 hours day = 48 hours a day, times 14 days (two weeks) equals 672 hours.

<sup>28</sup> In Mitchell County, part-time employees should be responsible for 126 hours every two weeks (3,276 hours annually) as well as covering for full-time employee leave usage (1,072 hours), for a total of 4,348 hours. This is the equivalent of almost 17 hours per week per part-time employee. This is an average and some weeks may require more or less time depending on the circumstances.



A staff complement of 10–12 will be sufficient to handle any call and incident volume increases. MCP would recommend a dedicated call take position if call volume surpasses 100,000. In this case, 5–6 additional staff would be needed, depending on the attrition rate at the time. Based on current statistics the county population would need to more than double before reaching this volume. Since 1960, the population in Mitchell County has only increased 10 percent<sup>29</sup>, with the years since the 2010 Census registering a decrease. Future job growth in the county is predicted to be 34.10 percent over the next ten years.<sup>30</sup> Based on the 2014 fourth quarter employment statistics, there are 358 private industries employing approximately 3,900; government is the next largest employment category.<sup>31</sup> A 34 percent employment growth over ten years is approximately 1,700 jobs. As a majority of the county is also protected lands, a large housing or industry influx is not likely. It is MCP's opinion that a ***full-time equivalent of 11–12 operational personnel*** will be sufficient into the foreseeable future.

NG9-1-1 technologies, such as text-to-9-1-1<sup>32</sup>, when implemented, are likely to have only a slight effect on staffing. Centers that have already implemented text-to-9-1-1 have reported little increase in their workload. And where telecommunicators can only take one call at a time, it is possible to handle multiple text conversations at once. (NENA recommends that telecommunicators handle no more than three text conversations at once.) It is reasonable to expect that the recommended staff complement will be able to absorb the slight increase in workload.

## **5.2. SUPERVISORY PERSONNEL**

Appropriate and focused supervision of operational personnel is critical. Best practice is for a supervisor when more than two telecommunicators are on duty. NFPA 1221, Section 7.3.4 states, "Supervision shall be provided when more than two telecommunicators are on duty."<sup>33</sup> As Mitchell County does not operate with more than two telecommunicators, this standard is not applicable, and would not be unless the center adopted it.

That said, supervisory personnel who routinely answer emergency calls and manage radio dispatch, as does the Mitchell County Communications director, are not able to focus on the center's operational efficiency. The director has other administrative responsibilities and should not be responsible for filling shift vacancies in the center. Telecommunicator leave is not excessive. If the director is consistently filling a shift vacancy, authorized staffing is not appropriate, the part-time program is not effective, or the schedule configuration may not be optimal, or the issue is a combination thereof.

Other than the director, at this time, supervisory personnel are not warranted.

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<sup>29</sup> [http://www.censusscope.org/us/s37/c121/chart\\_popl.html](http://www.censusscope.org/us/s37/c121/chart_popl.html)

<sup>30</sup> [http://www.bestplaces.net/economy/county/north\\_carolina/mitchell](http://www.bestplaces.net/economy/county/north_carolina/mitchell)

<sup>31</sup> <http://accessnc.commerce.state.nc.us/docs/countyProfile/NC/37121.pdf>

<sup>32</sup> The 911 Board has information regarding interim text-to-911 solutions available on their website.

<sup>33</sup> <http://www.nfpa.org/codes-and-standards/document-information-pages?mode=code&code=1221>



MCP provides the following for consideration should the operational configuration of the center change in the future.

NFPA 1221 Chapter 7 sets forth the standards for PSAP operations; Section 1 of Chapter 7 addresses management. As noted above, Section 7.3.4 requires supervision when more than two telecommunicators are on duty.

NFPA 1221, 7.3.4.1 states, “Supervision shall be provided by personnel located within the communications center who are familiar with the operations and procedures of the communications center.”<sup>34</sup>

NFPA 1221, 7.3.4.2 states, “The supervisor shall be allowed to provide short-term relief coverage for telecommunicators, provided that the telecommunicator does not leave the communications center and is available for immediate recall as defined in the policies and procedures of the AHJ.”<sup>35</sup>

Annex A of NFPA 1221 provides further explanation. A.7.1.3 states, “The supervisor position(s) in the communications center are provided in addition to the telecommunicators [*sic*] positions. Although supervisory personnel are intended to be available for problem solving, the supervisor position is permitted to be a working position.”<sup>36</sup>

CALEA’s law enforcement standards and the *Standards for Public Safety Communications Agencies* (SPSCA), established jointly by CALEA and APCO, do not specifically address staffing or supervision in a PSAP. However, standards reference utilizing Incident Command System (ICS) protocols. (CALEA Standard 46.1.2 and SPSCA Standard 7.1.2 are mandatory for accreditation.)

The Department of Homeland Security, coordinating with federal, state, and local governments established the National Incident Management System (NIMS). ICS falls under the Command and Management element of NIMS. ICS represents best practices and is the standard for emergency management across the country. ICS requires a supervisor when there are between three and seven persons performing similar functions. (The optimal span of control is five.) A manageable span of control allows supervisors to supervise and control their subordinates, while allowing for efficient communications between all parties.

While NFPA standards and ICS require dedicated supervisory personnel, there are in-house considerations as well. A dedicated supervisor assigned to each shift:

- Provides coordination and direction during major emergency incidents
- Is available for problem solving
- Is a single point of contact for subscriber agencies

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<sup>34</sup> Ibid.

<sup>35</sup> Ibid.

<sup>36</sup> Ibid.





- Is readily able to identify areas for growth among subordinates
- Has the ability to document employees' performance for annual/periodic reviews
- Provides a more narrow scope of supervision when implementing new policies and procedures
- Provides more supervision for diversified, complex tasks
- Is able to stay current with technological changes/advancements
- Provides guidance to new employees who have less training and experience
- Provides greater knowledge of laws, procedures, and administrative processes
- Is able to focus on the operations of the 9-1-1 center as a whole and not have split responsibilities with a dispatch position
- Is able to focus on customer service to the public and subscriber agencies
- Allows for improved communications with management, subordinates, and subscriber agencies
- Spends more time with subordinates individually, on a daily basis
- Allows for operational efficiency
- Is able to identify areas for remedial training, counseling or discipline, when appropriate
- Is able to address issues upon occurrence, not after the fact
- Is able to set priorities
- Allows for delegation of tasks/responsibilities

With a small staff contingent, the director should be able to fulfill many of these aspects. What may present a problem is little contact with personnel assigned to night shift. MCP recommends the director, if not already doing so, flex work hours to be available to night shift personnel.

### **5.3. ANCILLARY PERSONNEL**

Technical support for the center's technology (customer premise equipment, CAD system, radio consoles, etc.) is growing increasing more important as equipment becomes more specialized. These systems allow communications center personnel to provide mission critical services to the public and first responders. Ensuring the systems remain in optimal operating conditions is paramount.

Currently the director is responsible for 9-1-1 database administration. Given the director's current responsibilities, there is little time for error checking. Essentially the data is imported from the phone companies with no quality control checks, which can introduce errors into the system. Geographic information system (GIS) data plays an ever-increasing role in NG9-1-1. In today's enhanced 9-1-1 system, GIS is used at the end of call processing to display location information to a telecommunicator; in an NG9-1-1 environment, GIS will be used to validate service orders and to route calls. Calls will be validated against GIS data rather than the traditional tabular Master Street Address Guides (MSAGs).





NFPA 1221, Section 7.1.1.1 states “Emergency services dispatching entities shall have trained and qualified technical assistance available for trouble analysis and repair by in-house personnel or by authorized outside contract maintenance services.”<sup>37</sup>

While Mitchell County utilizes contracted maintenance services, MCP recommends consideration be given to an in-house information technology (IT) specialist that can provide general support for these systems, including routine maintenance, troubleshooting, and upgrades, as well as have responsibility for database administration and GIS. This may be a position that could be supported by Mitchell County's contracted IT support, but MCP would recommend training in the systems that support 9-1-1 operations if support personnel are not familiar.

## **6. STANDARD OPERATING PROCEDURES**

SOPs are a critical component of a communications center's operations as they serve to reduce the possibility of human error and provide guidelines for employees to follow. SOPs create consistency in the internal and external functions of the communications center, which is paramount when dealing with callers and emergency services personnel. The more consistent the process or procedure is from person to person, the less chance there will be for problems or issues with quality.

Well-developed SOPs provide the following:

- Guidance – provides information/direction during the course of one's assigned duties
- Protection – provides liability protection if followed
- Accountability – to acknowledge responsibility to the public and organizations served
- Expectations – provides employees with what the organization expects of them
- Training – provides a basis for knowledge of organizational structure, operation, maintenance, etc.

SOPs also provide a method of communication. As improvements are made to operations or operational or technical processes, SOPs are updated and each update requires new training. This provides a method to communicate the process changes to all employees.

SOPs also ensure the communications center can meet the expectations of first responder agencies. SOPs can be developed to ensure the communications center's policies and procedures align with responder agencies' while considering the requirements and limitations of the center itself.

Mitchell County Communications staff are required to adhere to the Mitchell County Personnel Policy; Mitchell County 9-1-1 Policy and Procedures; Standard Operating Guidelines for Fire and EMS Communications, which provides guidelines for field personnel and telecommunicators; and EMD, EFD, and EPD protocols. Interim policies and protocols are issued via memoranda from the director to staff.

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<sup>37</sup> Ibid.



Mitchell County Communications' operational policies and procedures are adequate to meet the general procedural requirements for 9-1-1 operations. However, the policies and procedures lack organization. According to staff, an index or table of contents for the center's policies and procedures does not exist, making it difficult for telecommunicators to quickly reference an appropriate procedure. There is also no clearly defined path for development, change, or implementation of new procedures.

The director is responsible for establishing policies and procedures through coordination with the emergency response organizations served by Mitchell County Communications. This is often a difficult task as each agency has individual needs and the center must serve each agency while trying to maintain a semblance of consistency.

As such, MCP recommends the establishment of a user's committee to review, update, and develop SOPs for Mitchell County Communications. The users' committee should include a representative from the law enforcement community, the fire services community, EMS, and telecommunicators. The users' committee can serve as a conduit for educating responder agencies on the SOPs that affect a respective agency. The committee can also provide a forum for regular and open communications among Mitchell County Communications and responder agencies to address issues or concerns and to facilitate clear dialogue. Care must be taken to ensure the committee does not circumvent the director's or county manager's roles and responsibilities for management and daily oversight of the operational aspects of the center.

Consideration should also be given to organizing the SOP manual by category and be given to policies and procedures in the following areas:

- Administrative
- Operations
- Facilities
- Human Resources
- Specialized Operations
- Responder-specific

MCP recommends Mitchell County Communications review NENA, APCO and CALEA standards to identify policies that may be missing or are deficient. Table 3 provides a list of suggested content, which should be reviewed for applicability to Mitchell County.

**Table 3 – Suggested SOP Content**

Administrative		
Mission Statement	Internal/External Correspondence	Drug Testing
Code of Ethics	Media Contacts/Press Releases	Computer/Internet Use
Organizational Structure	Release of Recordings	Secondary Employment
Organizational Chart	FCC/Radio Operation	Lost or Damaged Property
Training Parameters	Dress Code	Fiscal Management



Roles and Authority	Service Area	Public Education
Agency Files		
<b>Operations</b>		
General Rules	Exigent Circumstances	Radio System Operations
Answering Procedures	Telematics Calls	CAD System Operations
9-1-1 Unknowns	Language Line	Records Management
9-1-1 Inquiry Forms	Emergency Services for the Deaf	Internal Notifications
Telephone Technique	Radio Communications	Protocol Usage
Protocol Suspension	Paging	Severe Weather
National Warning System (NAWAS)	Emergency Media Notification	Water Supply Emergencies
Street/Road Closings	Animal Bites	Repossessions
Premise Information	Be On The Look Outs (BOLOs)	Incident Cancellation Requests
Bomb Threats	Environmental Health	Burning Bans
Illegal Burning	Emergency Management	Major Emergency Incidents
Mobilization of Personnel	Manual Operations	Scene Safety
<b>Facilities</b>		
Security	Alternate Power Sources	Emergency Evacuation of PSAP
Visitors	Equipment Malfunction Notifications	Radio System Failure
Facility Maintenance	Radio Inhibiting/Un-inhibiting	Emergency Operations
Vehicle Operations		
<b>Human Resources</b>		
Compensation and Benefits	Grievance Procedures	Complaints
Disciplinary Process	Performance Evaluations	Job Descriptions
Recruiting	Pre-employment	Promotions
<b>Special Operations</b>		
Critical Incidents	Special Events	Homeland Security

## 6.1. SMART

SMART is an acronym used to describe how objectives should be set. Originally SMART was used in setting personal performance goals or for project management, yet the concept can also be applied to SOPs, which are used to guide actions. While there is no true consensus as to what the acronym letters stand for, a general acceptance is as follows:

- Specific
- Measurable
- Achievable
- Realistic
- Time

An individual standard should specify what needs to be achieved, be able to be measured as to whether the standard is met, be achievable, be realistic (can the standard be met with the resources



available), and describe a time frame. Time will not need to be specified in each SOP. Some SOPs may require annual reports, weekly tests, or occur on a daily basis. “Time” can also mean trackable, tangible, or traceable.

For example, Mitchell County Communications may want to have a standard that “All 9-1-1 calls shall be answered on the first ring.” This is specific, measurable, and has a time (all), and may be achievable, but may not be realistic.

The SMART approach is a test to be carried out after writing a standard to test its validity; it is not an order to be followed or a constraint to be applied when developing goals or objectives. While not all standards will fit this mold, following this model leaves little doubt as to what is expected.

## 7. QUALITY ASSURANCE PROGRAM

A QA/QI program is a best practice and is an essential component of 9-1-1 communications processes as it can improve the level of service provided to citizens and improve overall PSAP performance. APCO provides the following definitions:

*Quality Assurance (QA): All actions taken to ensure that standards and procedures are adhered to and that delivered products or services meet performance requirements.*<sup>38</sup>

*Quality Assurance and Improvement Program: An on-going program providing at a minimum, the random case review evaluating emergency dispatch performance, feedback of protocol compliance, commendation, retraining and remediation as appropriate, and submission of compliance data to the Agency.*

*Quality Assurance Process: A formal assessment process by which actual performance, behavior, and outcomes are compared against established standards to ensure compliance, consistency, and accuracy in the delivery of quality service.*

*Quality Improvement Process: Actions taken to improve or correct areas of concern.*<sup>39</sup>

APCO’s *Minimum Training Standards for Public Safety Telecommunicators*, APCO ANS<sup>40</sup>

3.103.2.2015, further states, “[t]he Agency shall provide the Telecommunicator with an overview of its quality assurance and/or quality improvement process(es) used to recognize excellence, identify areas needing improvement, and ensure performance measures are met.”<sup>41</sup>

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<sup>38</sup> Institute for Telecommunications Services, the research and engineering branch of National Telecommunications and Information Administration a part of the US Department of Commerce.

<sup>39</sup> <https://www.apcointl.org/doc/911-resources/apco-standards/75-minimum-training-standards-for-public-safety-telecommunicators/file.html>, section 1.2.22, page 14.

<sup>40</sup> American National Standard

<sup>41</sup> Ibid., section 2.2.16, page 16.



In April 2015, APCO and NENA published their Standard for the Establishment of a Quality Assurance and Quality Improvement Program for Public Safety Answering Points (APCO/NENA ANS 1.107.1.2015). The QA/QI process is designed to measure “the quality and performance of the service provided. This process includes, but is not limited to, the following criteria:

- Analysis of performance trends;
- Compliance to protocols and standard operating procedures;
- Customer Service;
- Optimizing the use of agency resources;
- Overall performance of each employee; and
- Reviewing the operation as a whole”<sup>42</sup>

The standard further states that “PSAP agencies shall, in the normal course of business, review at least 2% of all calls for service. Where the 2% factor would not apply or be overly burdensome due to low or excessively high call volumes, agencies must decide on realistic levels of case review.”<sup>43</sup>

IAED has established minimum case (call) review rules for agencies using the Academies’ protocols:

- “Agencies whose call volume is between 43,333 and 500,000 will be required to audit a percentage ranging between 3% and 1% (based on this sliding scale calculator)
- Agencies whose call volume is below 43,333 will be required to audit 1,300 cases (25 per week)
- Agencies whose call volume is below 1,300 will be required to audit 100% of their cases
- Agencies whose call volume is above 500,000 will be required to audit 1% of their cases”<sup>44</sup>

CALEA’s *Standards for Public Safety Communications Agencies*, section 6.1.5, states:

- A written directive establishes a quality assurance program, and includes at a minimum:*
- a. documented quality checks of employees’ call handling and dispatch performance;*
  - b. frequency and quantity of quality checks;*
  - c. process for telecommunicator feedback; and*
  - d. management reporting and review process.*

Commentary adds that the “quality checks should cover all aspects of the employee’s performance to ensure compliance with agency directives...” This is a mandatory standard for agencies seeking accreditation.

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<sup>42</sup> [http://c.ymcdn.com/sites/www.nena.org/resource/resmgr/Standards/APCO-NENA\\_ANS\\_1.107.1.2015\\_Q.pdf](http://c.ymcdn.com/sites/www.nena.org/resource/resmgr/Standards/APCO-NENA_ANS_1.107.1.2015_Q.pdf) page 23.

<sup>43</sup> Ibid. page 22.

<sup>44</sup> <http://www.emergencydispatch.org/AccredCalculator>



NFPA 1221 section 7.7 states, “Communications centers shall establish a quality assurance/improvement program to ensure the consistency and effectiveness of alarm processing.” Explanatory material in Annex A states, “The purpose of the quality assurance program is to follow up and review calls with communications center employees, improve procedures, and make the corrections needed to improve service and response. Generally accepted statistical methods should be used when selecting calls for review.”

In today’s 9-1-1 environment, a QA program is the recognized standard of care. Gaps in employee knowledge, consistency, or procedures are likely to be uncovered through a uniform, objective QA evaluation process, which will ultimately provide opportunities for improvement. “Each call assessment should reflect the collective effort of the agency to efficiently, accurately, reliably answer calls – not as scrutiny of individual performance.”<sup>45</sup>

A QA/QI program also ensures that call processing guidelines are being followed correctly. When providing EMD, EFD, or EPD, as does Mitchell County, adherence to the structured protocol becomes even more important. “This is especially true for agencies that provide some measure of post-dispatch and/or pre-arrival instructions to callers, directing the caller to actively do something to stabilize a patient or begin to mitigate an emergency before the arrival of the dispatched first responders. Evaluating performance and compliance with protocols and procedures becomes as necessary as the provision of the protocol itself, since doing so incorrectly could wind up harming the patient or exposing the agency to liability.”<sup>46</sup>

The QA process also provides evidence needed to establish that services provided by Mitchell County Communications are of the highest quality and performed effectively. Any areas of weakness identified through the QA process can be analyzed by management personnel. The analysis determines the amount of risk that the weakness creates for the public and responders. Based on the analysis, the weakness is then addressed through policy/procedure, equipment, or training.

Mitchell County Communications does not have a true QA/QI program. As the center uses all three protocols from IAED (EMD, EFD, and EPD), with a call volume below 43,333, the center should audit 1,300 cases annually (25 per week). Currently the director has responsibility for performing case review, but has little time to complete the task.

MCP recommends that Mitchell County Communications develop a QA/QI program that is defined by policy and in accordance with IAED review rules. MCP also recommends the creation of a part-time QA/QI specialist position to review cases (calls), provide feedback on performance, and ensure compliance with best practices. The QA/QI review process could be contracted to a third-party vendor; IAED can be contacted for information on this service.

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<sup>45</sup> <http://www.powerphone.com/2013/11/qa-call-assessment-one-for-all-not-all-for-one/>

<sup>46</sup> <http://www.9-1-1magazine.com/The-Numbers-Game/>





## 8. TECHNOLOGY

MCP conducted a high-level assessment of the mission-critical technology in use by Mitchell County Communications. Technology is a critical component to the successful delivery of emergency services and must be operational 24 hours a day, 7 days a week.

### 8.1. COMPUTER AIDED DISPATCH SYSTEM

Mitchell County Communications uses CAD system software to track emergency and non-emergency calls for service and manage the status of responding units. The center operates a TriTech Software Systems CAD system purchased in 2009 through grant funding. The purchase included a five-year prepaid maintenance agreement that has since expired. Mitchell County has an invoice from TriTech to extend the maintenance and support for an additional year at a cost of \$88,010.58. Mitchell County elected not to renew the maintenance and support agreement.

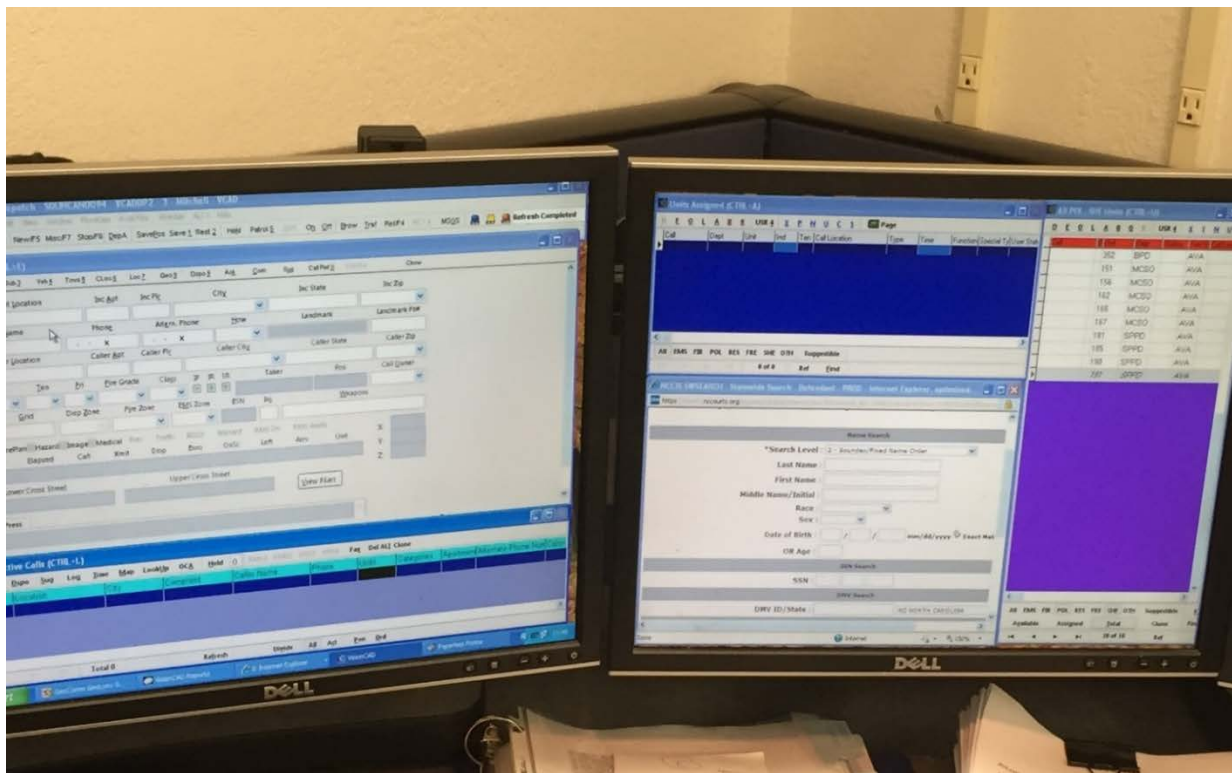


Figure 4 – CAD Screens

While telecommunicators report that the CAD system software is user-friendly, the center has experienced a lack of support from the software vendor. Several modules are not used due to technical issues. Reported areas of concern are noted below.



1. The IAED ProQA interface module (used to automate EMD, EFD, and EPD) causes the system to become unstable to the point that the CAD software is not usable. According to staff, after numerous attempts to deploy the software, Mitchell County discontinued use of the software. Telecommunicators instead use EMD, EFD, and EPD flip cards for call take and dispatch protocols. This creates delays and inefficiencies.
2. The GeoComm Geolynx 9-1-1 software that provides a GIS mapping interface for the TriTech CAD system does not operate properly. According to Mitchell County, because of consistent failures in the software, the CAD system is no longer used for mapping. Telecommunicators use 9-1-1 GeoConex Stand-alone Automatic Location Database software for dispatch mapping. This is not a direct interface to the CAD system, creating inefficiencies in utilizing mapping software. This failure in the CAD system mapping software could account for some responder concerns regarding delays in receiving directional information.
3. The CAD system does not always recommend the proper unit for dispatch. Mitchell County fire services have very complex dispatch plans that involve multiple automatic aid responses in different fire districts. Complex automatic aid between fire districts can prove challenging as telecommunicators need to remember the proper department to dispatch to a specific incident type. If the CAD system is implemented correctly with proper GIS mapping, the CAD system can make the appropriate recommendations for response. However, because of the limitations of the reported GeoComm failures, the current system is not able to provide proper recommendations.
4. The ALI interface from the 9-1-1 customer premise equipment (CPE) does not work properly; as such fields in the CAD incident do not automatically populate with ANI and ALI information. When functioning properly, this interface reduces the time required to complete a CAD incident by populating the caller phone number and location. Without this interface, the process of call taking is slowed, which could adversely affect responder response times.

The lack of maintenance on such a critical software system is an area of concern. MCP acknowledges that the County has had negative experiences with the vendor; however, failing to maintain this vital component exposes Mitchell County to risk and opens the door for liability. Developing specifications, procuring, and implementing a new CAD system could take two years depending on the customization required.

MCP recommends that the County renew the maintenance agreement with TriTech for one year and simultaneously begin developing specifications for a new CAD system. It is in the County's best interest to attempt to resolve the current issues to reduce risk to both telecommunicators and responders. If TriTech is able to resolve the issues to the County's satisfaction, the procurement process can be canceled if the County so chooses. Regardless of that decision, the County would have a properly functioning CAD system until a new system is implemented.





When developing specifications, consideration should be given to seeking input from both telecommunicators and responders. The users' committee recommendation may offer a conduit for input.

## 8.2. CUSTOMER PREMISE EQUIPMENT

Mitchell County Communications utilizes a Zetron 3200 E9-1-1 telephony system (CPE). The Zetron CPE processes all 9-1-1 and administrative telephone calls and displays the ANI and ALI associated with a 9-1-1 call. The system was purchased and installed in 2009 utilizing grant funds. Mitchell County contracts with High Country Communications, Inc. in Linville, North Carolina, for system maintenance.



Figure 5 – 9-1-1 CPE Workstation



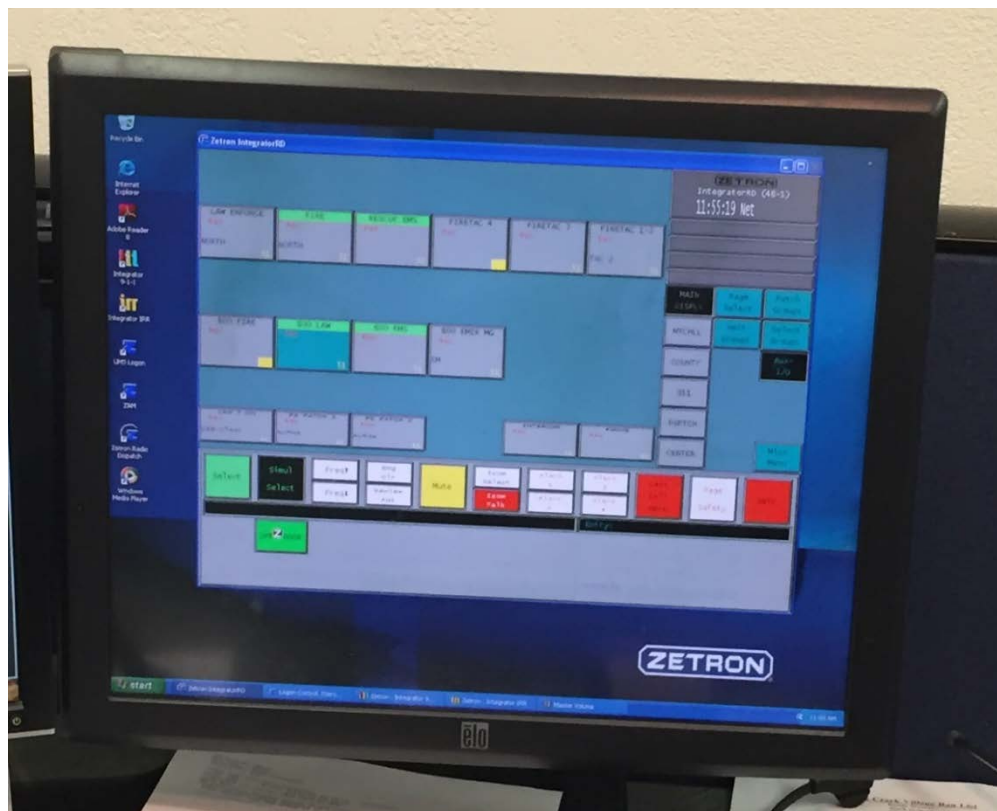
Communications staff are pleased with system functionality and advise that the system operates without issue.

The Zetron 3200, however, is not NG9-1-1-compliant, i.e., it is unable to process IP-based calls. As 9-1-1 in the United States is in the process of undergoing a dramatic change in the technology and methods that deliver 9-1-1 calls to PSAPs, this inability will introduce limitations in the near future.

MCP recommends that Mitchell County Communications begin the planning and procurement process to upgrade 9-1-1 CPE equipment to NG9-1-1-compatible equipment. MCP recommends the County utilize 911 funds, to the extent possible, for this procurement.

### 8.3. RADIO CONSOLES

Mitchell County Communications utilizes a Zetron 4048 radio console system to communicate with emergency responders. The consoles provide the interface between the State's VIPER and VHF radio systems used by law enforcement, fire and EMS within the county. The system was purchased and installed in 2009 utilizing grant funds. Mitchell County contracts with High Country Communications for system maintenance.



**Figure 6 – Radio Console Workstation**



Communications staff report that the consoles currently operate properly, but functionality is limited.

High County Communications advised the console system operates on the original firmware and does not support a Console Subsystem Interface (CSSI), which would allow wireline connectivity into the State's VIPER radio system.

MCP recommends that Mitchell County begin the planning and procurement process to upgrade radio consoles to equipment that can support a CSSI interface. MCP recommends the County utilize 911 funds, to the extent possible, for this procurement.

#### **8.4. LOGGING RECORDER**

Mitchell County Communication recently implemented an Exacom, Inc. Hindsight G2 logging recorder, which is NG9-1-1-compliant. This system is equipped to manage recordings on 32 channels with expansion capability to 48 channels. The system employs redundant storage capabilities and redaction functionality, among others. Mitchell County contracts with High Country Communications for system maintenance.

Communications staff have not reported concerns with the logging recorder's functionality or with support provided by the manufacturer and contracted vendor.

While the network portion of the implementation was not complete at the time of this report, the recording system will meet the needs of Mitchell County Communications into the future. MCP recommends that the network implementation be completed as soon as possible. Utilization of the network feature will allow authorized personnel on the County network access to the recorder, reducing some workload on the director.

#### **8.5. GEOGRAPHIC INFORMATION SYSTEMS**

Mitchell County GIS and Addressing staff manage and maintain addressing, fire service, and street centerline data, while the 9-1-1 director is responsible for maintaining the MSAG, emergency service zones (ESZs), and the SALI database. These databases are critical to the successful delivery of emergency services in Mitchell County.

A manual process is currently in place among GIS, addressing, and 9-1-1 staff to manage updates among the various databases. When an address or street is added to the County's GIS database, the County addresser notifies the 9-1-1 director via email that an address has been added. The 9-1-1 director then updates the MSAG for use in the SALI database and ESZs. Updates to the SALI database are downloaded from the telephone companies on a daily basis with limited data verification.

According to the County's GIS administrator, a comparative analysis of the MSAG, ALI database, and GIS database has not occurred. NENA's *Information Document for Synchronizing Geographic Information System Databases with MSAG & ALI* states that "[h]aving MSAG, ALI, and GIS datasets in



agreement is crucial to providing telecommunicators the information they need to correctly verify the location of a caller and provide proper emergency response.”<sup>47</sup> The manual process in place today could present challenges for ensuring the datasets are in agreement, which is critical to the delivery of emergency services in Mitchell County.

MCP recommends that Mitchell County conduct a comprehensive comparative analysis of the databases to ensure the information aligns and is up-to-date. “Comparing the MSAG and GIS databases will identify inconsistent naming conventions, inaccurate address information, improper ESN assignments to MSAG records, improper community assignments, improper exchange designations, and other discrepancies.”<sup>48</sup> Following the analysis, each dataset should be updated to ensure synchronization. Moving forward from this point, the County should streamline the workflow process to maintain the accuracy and integrity of the databases.

## **8.6. GENERAL TECHNOLOGY**

While visiting the Mitchell County Communications center, MCP made several technological observations.

1. A significant number of the personal computers (PCs) in the center use the Windows XP operating system. Microsoft discontinued support for the XP operating system in April 2014, leaving those computers vulnerable to malicious attack and lack of support.
2. Cable management is lacking. Communications staff report that the lack of IT support has left the network undocumented. Vendors have been allowed to install hardware without providing as-built documentation, requiring staff to spend time troubleshooting potential issues. As such, the network may not be operating at its optimal performance.

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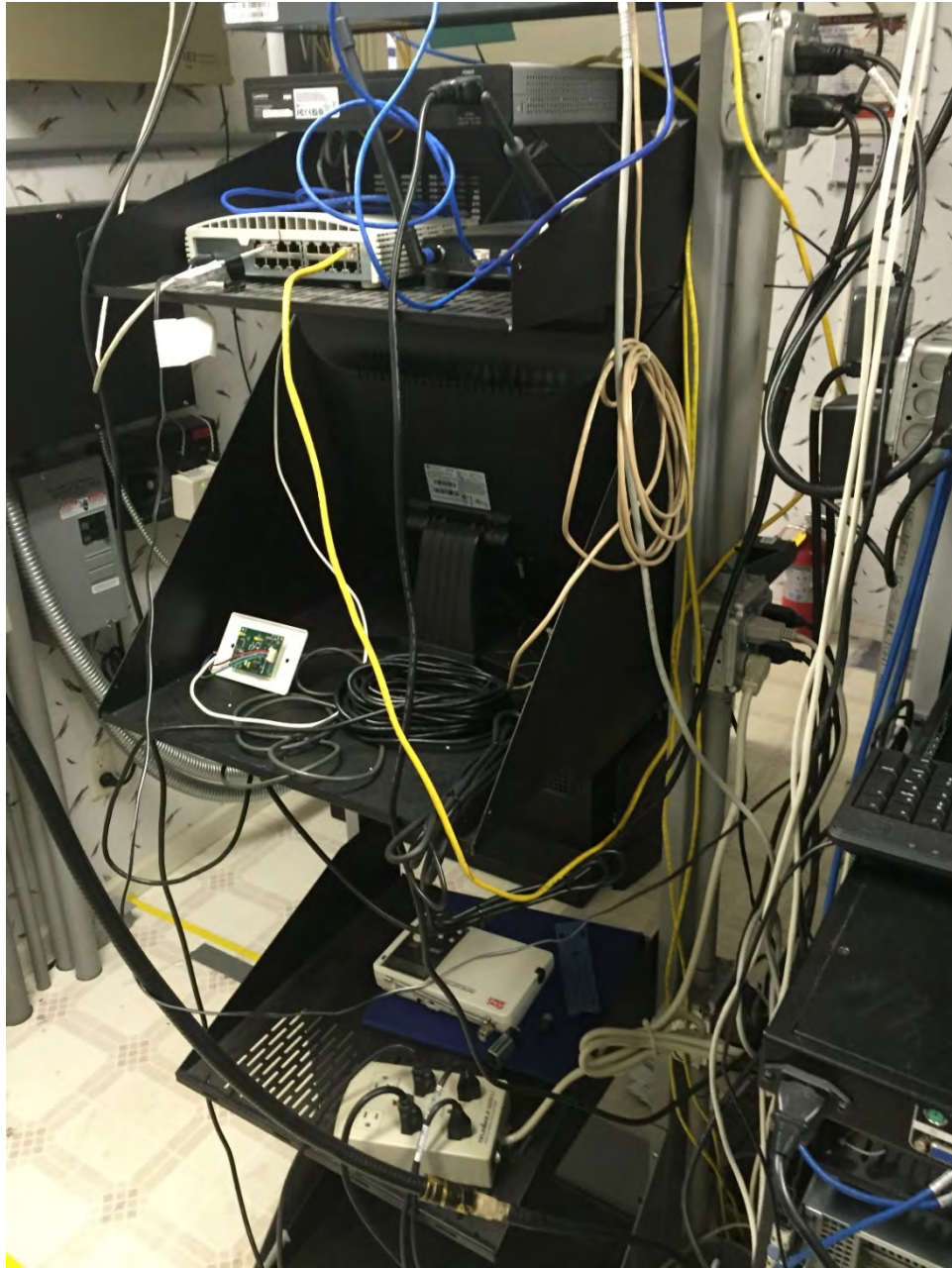
<sup>47</sup> [http://c.ymcdn.com/sites/www.nena.org/resource/collection/F2E0D66A-4824-418C-8670-3238D262B84A/NENA\\_71-501-v1\\_Synchronizing\\_GIS\\_Databases\\_with\\_MSAG\\_and\\_ALI.pdf](http://c.ymcdn.com/sites/www.nena.org/resource/collection/F2E0D66A-4824-418C-8670-3238D262B84A/NENA_71-501-v1_Synchronizing_GIS_Databases_with_MSAG_and_ALI.pdf). Page 5 of 37.

<sup>48</sup> Ibid.





**Figure 7 – Network Cabling (Server Room)**



**Figure 8 – Network Cabling #2 (Server Room)**



3. Technology services are provided under contract with a former Mitchell County employee that currently works for EMS. Communications staff report that the technician is very familiar with operations and technology, but is often unable to assist due to scheduling conflicts. This leaves the responsibility of preventative maintenance to the director.

MCP has several recommendations. First, as mentioned previously, MCP recommends consideration be given to an in-house IT specialist that can provide general support for the communications systems, including routine maintenance, troubleshooting, and upgrades, as well as have responsibility for database administration and GIS. If an in-house technician is not an option, the County should contract with a third-party vendor for technical support services.

Second, the operating systems of the PCs running Windows XP should be upgraded as soon as possible.

MCP recommends that the County develop a strategic procurement/replacement plan for all 9-1-1 equipment, hardware, and software. The plan should identify when items would be procured or replaced in one to five-year increments based on life cycle. Specified replacement cycles would allow the County to address concerns relating to advances in technology and the like, and evidencing to the State that an identified and approved Plan is being used to manage 911 monies effectively.

## 8.7. TECHNOLOGY LEASE VERSUS PURCHASE

When procuring technology, leasing versus purchasing must be considered to determine the best value for Mitchell County. There are advantages and disadvantages to each.

**Table 4 – Lease versus Purchase Comparison**

	<b>Lease</b>	<b>Purchase</b>
<b>Advantages</b>	<ul style="list-style-type: none"><li>◆ Upgrade flexibility</li><li>◆ Pre-determined monthly expenses</li><li>◆ Generally pay nothing up front</li><li>◆ Length of lease terms; payment flexibility</li><li>◆ Conservation of capital</li></ul>	<ul style="list-style-type: none"><li>◆ Easier than leasing</li><li>◆ Maintenance schedules</li><li>◆ Useful life considerations</li><li>◆ Lower total cost</li><li>◆ Flexibility</li><li>◆ Asset rather than liability</li></ul>
<b>Disadvantages</b>	<ul style="list-style-type: none"><li>◆ Pay more in the long run</li><li>◆ Obligated to pay even if no longer need/use equipment</li><li>◆ Early termination</li></ul>	<ul style="list-style-type: none"><li>◆ Initial outlay</li><li>◆ Technology becomes outdated</li></ul>

MCP recommends obtaining outright purchase pricing during any competitive procurement process and, if sufficient funds do not exist, exploring leasing or loan terms and conditions. MCP has found that





there are many leasing agreements depending on the respective vendor; Mitchell County must carefully review the terms of such agreements. For example, some vendors include all labor necessary to maintain the equipment during the duration of the lease, but the County, for example, would be responsible for any hardware failures. Some vendors only include a defined number of visits per year to assist with any issues. After that number is exceeded the County would be responsible on a time and materials basis. Through the lease terms and conditions, one must review and understand where and when additional costs arise and who has responsibility for these costs. Only after all potential costs are known should a decision be made on the best possible procurement solution for Mitchell County.

## 9. 911 FUND

MCP reviewed Mitchell County's 911 Fund to determine how these funds have been utilized. The County provided 911 Fund balance and expenditure information that was current through June 30, 2015.

The fund balance as of June 30, 2015, was \$991,190.68, with expenditures from July 1, 2014, through June 30, 2015, totaling \$54,253.91. The County reported total expenditures from the following allowable expenditure areas:

- |                         |             |
|-------------------------|-------------|
| • Phone & Furniture     | \$13,757.97 |
| • Software              | \$19,725.03 |
| • Hardware              | \$385.00    |
| • Training              | \$9,304.16  |
| • Implemental Functions | \$11,081.75 |

Expenditures equate to approximately 5 percent of the fund balance, before expenditure.

Utilization of 911 Fund monies is a cost effective way for the center to enhance service offerings to the public. These monies can be used for eligible expenditures to offset recurring, non-recurring, and maintenance costs. As these monies are provided as a result of State legislative action, the State has a vested interest in how these monies are utilized, and to what extent they are used to support the mission of public safety at the emergency communications service level.

A list of eligible 9-1-1 fee expenditures may be found in Appendix A.

Based on the NC 911 Board's approved expenditure list, many of MCP's recommended capital purchases may be funded through the 911 Fund balance. The Board does, however, have final approval on all expenditures. While the recommended expenditures appear to be allowable expenditures under NC 911 Board policy, MCP recommends the County receive confirmation prior to the expenditure.





MCP further recommends that Mitchell County meet with NC 911 Board staff to review all 9-1-1 operational expenditures. MCP believes additional operational expenditures made by Mitchell County may be allowable expenditures under the NC 911 Board policies.

## **10. FACILITY ANALYSIS**

The Mitchell County Communications center is critical to the delivery of emergency services to the residents and visitors of Mitchell County. The current facility is located on County-owned property immediately adjacent to the County administrative offices in Bakersville, North Carolina.

According to staff, the modular office building in which the center is located was originally a day care facility. The building was repurposed for the emergency operations center (EOC) and communications center. The EOC has since been relocated and the only tenant is Mitchell County Communications.

Communications staff have done a good job keeping the center operational for many years. However, the building appears to be reaching the end of its useful life, without extensive and costly repairs. According to NENA, the typical useful life of a PSAP facility is between 20 and 50 years.<sup>49</sup> MCP noted many concerns, including exterior residential doors with residential door handles, rest room facilities without doors, and evidence of prior roof leaks, all of which make conditions poor.

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<sup>49</sup> [https://www.nena.org/?page=psap\\_siteselectstnd&terms](https://www.nena.org/?page=psap_siteselectstnd&terms)



**Figure 9 – Residential Entry Door and Lock**

Security of the facility is accomplished with residential locks on the exterior doors; these locks do not appear to provide adequate locking mechanisms or security. Communications staff expressed concerns regarding their safety in the building. MCP also noted there is little security in the parking lot as the staff parking area is not fenced.



**Figure 10 – Restroom (without door)**



**Figure 11 – Roof Leak**

MCP partnered with SGA to provide a conceptual design and programming for a new communications center and Sheriff's Office facility. The County requested MCP and SGA provide a conceptual design for two locations: the site of the existing communications center and Sheriff's Office as well as the Mitchell County Courthouse complex.

SGA's preliminary facility design, site plan and programming documents can be found in Appendix D.

Mitchell County must determine the most suitable location for a new facility. County administration must also determine the operational impacts of the facility locations, while considering available space at each site. While both sites have positive and negative attributes, an extensive study should be conducted, to include engineering and geotechnical surveys, to determine the most suitable location for a new communications center and Sheriff's Office.

Staff have expressed concern regarding parking at the courthouse when court is in session. An engineering study can determine if adequate parking is available at both sites.

Staff also expressed concern that any new facility directly attached to the courthouse may present a challenge adhering to Americans with Disabilities Act (ADA) requirements. While the conceptual



designs presented with this report do not examine the potential impacts or upgrades that may be required to the courthouse, a new facility could be located on the property without direct courthouse access.

## 11. PRELIMINARY COST ESTIMATES

High-level, budgetary cost estimates for the construction of a new Mitchell County Communications facility and technology support have been prepared. A breakdown of construction cost estimates from SGA can be found in Appendix D. A breakdown of technology cost estimates can be found in Appendix B.

**Table 5 – Mitchell County Communications Center Construction Estimate**

Facility Construction Cost Estimate	\$2,920,706.00
Technology Cost Estimates	\$1,871,000.00
<b>New Communications Center Budgetary Cost Estimates</b>	<b>\$4,791,706.00</b>

Budgetary cost estimates above do not include the Sheriff's Office facility. Those estimated costs can be found in Appendix D as this construction would not be supported in a grant application effort to the NC 911 Board.

The technology cost estimates listed above include cost estimates for CAD, CPE, PC replacement, and radio console replacement. MCP recommends Mitchell County consider replacing these systems independent of the new facility. Table 6 provides budgetary estimates for the recommended technology replacement.

**Table 6 – Technology Budgetary Estimates**

Technology Systems	Cost Estimate	Comments / Notes
9-1-1 CPE	\$235,000.00	Opinion of costs before any discounts, including one-year support
Radio Consoles	\$200,000.00	5-position radio console system
CAD Software	\$400,000.00	CAD software suite including GIS/Mapping, mobile data with automatic vehicle location (AVL), at (5 licenses per application) CAD Tier 2 system support; County may choose not to include mobile data with AVL, which may reduce the cost
Keyboards, Mice, PCs	\$15,800.00	PCs and supporting equipment for office environment hardware
<b>Total</b>	<b>\$850,800.00</b>	





## 12. FRONTIER COMMUNICATIONS

Mitchell County's telephone carrier support is provided through Frontier Communications, Inc. Frontier provides the majority of 9-1-1 network support in western North Carolina.

Mitchell County Communications staff noted what appear to be irregularities in Frontier's billing and 9-1-1 network instability. In the past several years, this instability has caused 9-1-1 outages on numerous occasions.

Frontier's services to Mitchell County include 9-1-1 network and delivery and provisioning of administrative telephony services. Mitchell County is billed for these services monthly; invoicing includes a cost breakdown description of each provisioned service, such as fees, surcharges, taxes, and other applicable charges. Another service is ALI database maintenance. The database is updated on a routine basis remotely by Frontier through a download and then transferred to the GeoConex mapping software. The updated data is verified by the Communications director.

Analysis of the current support provided to Mitchell County involved reviewing available information, including comparison of the existing fee structure offered to Mitchell County with the tariff utilized within North Carolina by Frontier. During the analysis, MCP reviewed one year's billing statements, provided by Mitchell County, in order to obtain a perspective on Frontier's services.

Mitchell County Communications has four 9-1-1 trunks; two wireless and two wireline. 9-1-1 service provisioning includes 9-1-1 selective routing/1000, 9-1-1 database processing, Private Switch-ALI (PS-ALI) support services, and associated fees and taxes. Each of these, including the North Carolina Utility Sales Tax, are labeled as "Optional Services." Based upon the information provided as compared with the North Carolina tariff in force (effective 1/1/2013), MCP was unable to determine if inconsistencies exist in Frontier's billing to the County.

Mitchell County Communications utilizes five administrative phone lines, provisioned by Frontier to include necessary functionality of value within a 9-1-1 center. Frontier provides detailed monthly billing for each administrative line within the center. MCP's review of the monthly billing information found some information that the County may wish to investigate further. Each administrative line is configured to utilize certain calling plans from Frontier. An analysis of the calling plans revealed that some inconsistencies exist; however, the reasons for the inconsistencies are not readily obvious.

An example of this can be illustrated by inspecting the Frontier Communications Invoice dated "2/20/15" as provided by Mitchell County. Within the section of the invoice labeled as "Measured Call Detail for 828/688-9110," one can view the calling plans associated with this line. The calling plans detailed include: Community Plus Plan-Local, Community Plus Plan-Band D, and Community Plus Plan-Band E. Of the three calling plans associated with this line, the "Community Plus Plan-Local" indicated the most usage, totaling 298 calls, with no charges associated with this usage. In comparison, calls that were



charged against the “Community Plus Plan-Band D depicted the highest fee charged (\$3.34) for a total of 26 calls.

Within the same invoice, the “Measured Call Detail for 828/688-9479” indicates a similar pattern. There were 335 call placed against the Community Plus Plan-Local at no charge, while there were 17 calls placed against the Community Plus Plan-Band D at a charge of \$1.94. Calls placed against the Community Plus Plan-Band E were charged less in monetary value than those calls placed within “Band D”.

The use of calling plans typically offers the consumer opportunities to receive financial benefit by selecting plans that also provide operational benefit. MCP reviewed Frontier billing information provided by the County for comparison. The analysis reveals that the County seems to realize some monetary savings through use of the Community Plus Plan-Local calling plan. What is not apparent is the benefit gained through the use of multiple calling plans. MCP found that certain administrative lines have multiple calling plans assigned to them. The pattern where a given administrative line is associated with multiple calling plans is repetitive from one billing cycle to the next. .

It is undetermined whether the County receives financial benefit from such arrangements. Research was conducted in an attempt to determine the intended usage for each calling plan category in the hopes of understanding the perceived value gained. Unfortunately, no additional information could be obtained that would provide insight upon this. The County may derive benefit from determining the necessity of associating multiple calling plans with a given administrative line, and reducing any unnecessary calling plans where appropriate to do so.

Analysis of the existing 9-1-1 Support Agreement provided by Frontier to the County was not possible due to the lack of supporting documentation. Whether the existing support agreement with Frontier is properly designed to meet the operational needs of the County is undetermined for the purpose of this report. The County would certainly benefit from validating the existing support agreement with Frontier, and ensuring that any portions of the agreement that are deficient are properly addressed. A written copy of the support agreement in force should be readily available for periodic review.

The decision to seek other carriers to support Mitchell County should be carefully considered. Intrado or TeleCommunication Systems Inc. (TCS), for example, or another NG9-1-1 solution provider may be willing to offer 9-1-1 network services to Mitchell County. The County could chose to develop competitive procurement documents to replace Frontier as the 9-1-1 service provider. However, with limited public safety-grade network connectivity available in Bakersville, the result of such a solicitation may not be met with success. There is also connectivity with adjacent counties to consider.

MCP was made aware of a meeting on August 26, 2015, between the NC 911 Board and Frontier for the purpose of addressing concerns of some western North Carolina PSAPs. Following the meeting, David Dodd with the NC 911 Board sent an email to the affected counties. The following is an excerpt.



1. *We urged Frontier to provide access to dual selective routers at no charge to the PSAPs. A copy of the FCC order ... that appears to require LECs to provide redundancy and diversity was presented and reviewed. Frontier agreed to consider this but needed to refer this to their corporate council first. It is our understanding that Frontier has approached at least one PSAP with a plan to charge for selective router diversity. We suggest you wait until we hear back from Frontier on this it may become available at no charge.*
2. *We urged Frontier to provide network diversity for all the PSAPs served in western NC. We requested that the loop in western NC be completed so that a cable cut in the area does not affect multiple PSAPs. We pointed out that Frontier could lease fiber services from other carriers to close this roughly 14 mile loop. This was also presented as part of the diversity issue addressed in the FCC order.*
3. *We requested a uniform contract price for 1FB service (administrative phone lines) for all the PSAPs in NC similar to the state contract price provided by AT&T and CenturyLink. It was agreed to in principal and Frontier is working on a price.*
4. *It appears to us that Frontier has been double billing FUSC charges on the PSAP telephone bills. We were provided with the contact information of one of their billing specialists and are following up on the issue now.*

As referenced by Mr. Dodd, the FCC recognizes the critical nature of 9-1-1 and the requirements for local exchange carriers (LEC), such as Frontier, to ensure that 9-1-1 calls are received at the PSAP as defined in FCC Report and Order 13-158<sup>50</sup>. Frontier is required to provide redundancy in both the selective router and network diversity to limit service interruptions.

MCP recommends that Mitchell County contact NC 911 Board staff to follow up on the August meeting. The PSAPs in western North Carolina may be able to leverage the NC 911 Board to assist in addressing the requirements of stable redundant 9-1-1 services. The State and Mitchell County should require Frontier to provide dual selective routers and network diversity.

Once uniform contract pricing for 1FB service is established with the State, all Mitchell County Communications administrative lines should be converted to the new pricing. This should eliminate the potential overcharging for administrative phone lines.

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<sup>50</sup> [https://apps.fcc.gov/edocs\\_public/attachmatch/FCC-13-158A1.pdf](https://apps.fcc.gov/edocs_public/attachmatch/FCC-13-158A1.pdf)





## **13. RADIO PROPAGATION**

### **13.1. PROPAGATION STUDIES**

Mitchell County operates a VHF paging system for EMS units and VHF simulcast system for paging and two-way communications with the fire services. Mitchell County uses a patch between the County's VHF system and the statewide VIPER radio system, allowing units on both systems to communicate directly with each other. Propagation studies were created for both systems.

Propagation studies are mathematically-based predictions of how a radio is expected to function in the real world. The software used considers many factors such as frequency band, transmit power, ground elevation of the transmitter site, terrain, antenna model, and antenna height. While some of this information is built into the software, a large amount of this information is manually entered.

Data provided by the County and from the FCC Universal Licensing System (ULS) database was used to create the propagation maps. Assumed antenna heights and effective radiated power (ERP) levels at current sites were used in the calculations to produce coverage maps. Maps were created to show probable coverage in today's environment for both the Mitchell County systems and the statewide VIPER system.

MCP creates coverage maps in accordance with guidelines from Telecommunications Industry Association (TIA) Technical Services Bulletin (TSB) 88-D and uses the Longley-Rice prediction model. Maps were based on the following conditions:

- Portable Talk-out – The tower site radio equipment's ability to talk to portable user radios on a users' hip
- Portable Talk-in – The portable radio's ability to talk to the tower site radio equipment transmitting at a users' head level

The two conditions illustrate the normal operation of a radio network. Typically, the differences between portable and mobile radios with respect to propagation are as follows:

- Mobile radios
  - Higher transmit power
  - High gain antennas
  - Vehicle body enhances antenna system
- Portable radios
  - Low transmit power
  - Low or no gain antennas
  - Human body absorption lessens the received RF energy

Many things can affect radio performance, including the following:

- Terrain
- Frequency band



- Power level
- Antenna height
- Antenna type

Propagation maps utilize signal strength measured in decibels per milliwatt (dBm). These are expressed in negative numbers with “0” being high and “-120” being low. Signals in the 0 dBm to -90 dBm range are typically considered highly reliable signals for portable radios. Signals in the -90 dBm to -107 dBm range are considered usable (especially for mobile radios), but less reliable for portable radios.

The tables provided on each map illustrate the relationship between delivered audio quality (DAQ) and signal strength in dBm. DAQ is subjective; however, generally a DAQ 3.4 or better is clear audio that rarely needs repeating. A DAQ of 2.0 to 3.4 can be static, scratchy, or garbled, and often requires repeating the message (especially in analog signals). A DAQ 2.0 or lower is typically unusable and unreliable.

MCP uses a clear, transparent color to indicate the areas with DAQ 3.4 or better coverage. This allows the reader to see the topographic background image on the map. The red area indicates marginal coverage (DAQ 2.0–3.4 or usable with repeats). The black overlay represents unusable and unreliable coverage (below DAQ 2.0). These signal strengths are for street-level outdoor coverage. Portable coverage is based on a 5 watt VHF, 4 watt ultra high frequency (UHF), 3 watt 800 MHz portable radio at the hip for talk-out and at head-level for talk-in.

### **13.2. FCC DATABASE**

MCP made extensive use of the FCC ULS database in order to compile a list of radio channels and radio sites for the county. Searches of the database were conducted based on license type in order to more accurately parse the search results. Only public safety licenses were gleaned from the database in order to weed out business licenses that may have used a similar licensee name. This greatly sped up the process of identifying only those licenses in use by the county for emergency communications. MCP compiled site data and other pertinent information from these searches. MCP also spoke with representatives from Mitchell County and High Country Communications to clarify the call signs in use by Mitchell County.

The FCC database provides transmit information for radio sites only. Determining receiver information for radio sites requires a more thorough investigation of the radio system itself. Due to the limited scope, MCP modeled talk-out coverage only.

### **13.3. MITCHELL COUNTY SITES**

Paging for EMS units is provided by the Locust Knob radio site and licensed under the FCC call sign KWE558. Details for the Locust Knob paging site are found Table 7.



**Table 7 – EMS Paging Site Details**

Site Name	Latitude	Longitude	Antenna Height (ft)	Frequency (MHz)	ERP (W)
Locust Knob	36 02 01.40	82 12 07.50	89	155.2800	350

The Mitchell County VHF simulcast system operates from the Woodys Knob and Locust Knob sites and is licensed under FCC call sign WYR658. Site details are found in Table 8. The transmit frequency for the simulcast system is 155.8050 MHz, while the mobile transmit frequency is 153.7850 MHz.

**Table 8 – Mitchell County VHF Simulcast Site Details**

Site Name	Latitude	Longitude	Antenna Height (ft)	Frequency (MHz)	ERP (W)
Woodys Knob	35 52 47.40	82 06 15.40	21	155.8050	200
Locust Knob	36 02 01.40	82 12 07.50	21	155.8050	25

#### **13.4. VIPER P25 SITES**

The VIPER network is a statewide P25 radio system with oversight from the North Carolina State Highway Patrol. MCP conducted an FCC database search for VIPER sites in Mitchell County as well as neighboring Avery, Burke, McDowell, and Yancey counties. Coverage predictions were produced based on the results of this search; site details are found in Table 9.

**Table 9 – VIPER P25 System Site Details**

Site Name	County	Latitude	Longitude	Antenna Height (ft)	ERP (W)
Hawshaw Mountain	Avery	36-02-04.50	81-56-21.40	96	160
Beech Mountain Parkway	Avery	36-11-12.50	81-52-21.40	114	150
Grandmother Mountain	Avery	36-03-47.50	81-50-32.40	400	120
High Peak Mountain	Burke	35-43-23.50	81-36-30.30	194	100
Grants Mountain	McDowell	35-39-32.40	81-59-38.30	299	200
Dobson Knob	McDowell	35-49-12.60	81-57-27.00	179	120
Locust Knob	Mitchell	36-02-01.40	82-12-07.50	99	200
Woodys Knob	Mitchell	35-52-47.40	82-06-16.40	179	200
Phillips Knob	Yancey	35-56-03.40	82-18-44.50	160	200
Clingmans Peak	Yancey	35-44-05.40	82-17-11.40	131	100



### **13.5. RESULTS**

Coverage maps produced by MCP can be found in Appendix C. A comparison of the Mitchell County VHF coverage to the VIPER 800 MHz coverage shows the two to be roughly the same. From a coverage standpoint, one system is not clearly superior to the other.

If the County sought to improve coverage on either system, an additional site in the northern part of the county would have the greatest impact.

The patch between the two systems was reported by Mitchell County staff and fire services personnel to cause issues with user operation of the radios. A user talking on the VHF system has the ability to key-up their radio and begin speaking while access to a channel is still being granted on the VIPER system. This results in the first second or two of a transmission being cut off on the VIPER system. Education of users on the operation of the two systems would help minimize these types of errors.

## **14. CONCLUSIONS**

The dedication of Mitchell County Communications staff is commendable and they demonstrate great pride in the services they perform for the citizens and visitors of Mitchell County.

The facility housing Mitchell County Communications is rapidly approaching end of life. Mitchell County should seek funding for the construction of a new facility that can sustain 9-1-1 operations into the foreseeable future.

The lack of maintenance on the CAD system is an area of concern. While the County has had negative experiences with the vendor, failing to maintain this vital component exposes Mitchell County to risk and opens the door for liability. It is in the County's best interest to attempt to resolve the current issues to reduce risk to both telecommunicators and responders.

There appears to be a significant 911 Fund balance that should be allocated to improve communications technology.

Also of concern is the number of responsibilities placed on the Mitchell County Communications director. Many of these responsibilities should be off-loaded, particularly the need to staff the communications center. The director should focus on administrative duties, not staffing a console. As such, consideration may need to be given to increasing authorized strength of full- and/or part-time personnel.



Mitchell County Council and administration should be applauded for taking the initiative conduct an assessment of operations as the initial step for grant application to the NC 911 Board for the construction of a new communications facility. While the grant process is competitive, the challenges facing Mitchell County Communications are great. The successful outcome of a grant submission may provide much needed funding for a new facility.



## Appendix A—Eligible 9-1-1 Fee Expenditures

Eligible 9-1-1 fee expenditures, approved by the NC 911 Board, are described below.<sup>51</sup> Information is current as of June 19, 2015. MCP recommends the Board website be visited prior to expenditure to ensure accuracy. The Board should also be contacted for questions regarding expenditures not listed.

### Phone Systems:

- 9-1-1 trunks and one administrative line per answering position
- Telephone sets used to answer 9-1-1 calls, including CPE equipment, headsets, monitors, keyboards, mouse and servers used exclusively for telephone sets<sup>52</sup>
- Telecommunications Device for the Deaf/Teletypewriter (TDD/TTY)
- Automatic call distribution (ACD) systems, whether facility-based or premise-based
- Interpretive services (e.g., Language Line or Omni Lingual)
- Service provider selective routing and ALI provisioning charges
- Data connection for the sole purpose of collecting call information for analysis<sup>53</sup>

### Furniture:

- Cabinets, tables, or desks that hold eligible 9-1-1 equipment
- Telecommunicator chairs

### Software:

- CAD system modules that are part of the call taking process only; some CAD systems will include additional modules that are not a part of the 9-1-1 process and are not eligible
- GIS software used to create and display the base map showing street centerlines
- GIS layers developed specifically for 9-1-1 addressing functions
- Voice logging recorder software
- Management Information System (MIS) software for 9-1-1 phone systems
- Time synchronization device software
- Law enforcement, fire and medical call taking protocols including software and flip-cards
- QA software for the training program of law enforcement, fire and medical call taking protocols
- ALI database software

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<sup>51</sup>

<https://www.nc911.nc.gov/pdf/Funding%20Committee/Elegible%20Expenditure%20Lists/2015/06192015%20Approved%20Use%20of%20Fund%20List.pdf>

<sup>52</sup> When servers host both 911 eligible and ineligible applications, only the percentage of the cost of the server representing the 911 eligible use is allowable.

<sup>53</sup> If connection is shared with non-eligible 9-1-1 devices, then only a percentage of the eligible 9-1-1 cost is eligible.



- Radio console software that is part of the 9-1-1 process; some radio console software will include additional modules that are not a part of the 9-1-1 process and are not eligible
- Console Audio Box (CAB) software
- Paging software including licensing costs to interface or integrate with CAD or licensing cost to establish a web-based paging function in substitution for paging through CAD; excludes costs for use of such software or functions by first responders
- CAD-to-CAD interface software
- Automated digital voice dispatching software
- Message switch software that allows for voiceless dispatch, status updates, and mobile-to-CAD messaging, including CAD licensing costs for mobile computer terminals, smartphones and tablets; some message switch software may include additional modules that are not a part of the 9-1-1 process and are not eligible

#### Hardware:

- Servers used exclusively for telephone, CAD, voice logging recorder, GIS, paging, console/alias database management, radio console network switching, and radio console software systems, including monitor, keyboard, and mouse
- Computer work stations used exclusively for telephone, CAD, voice logging recorder, GIS, and radio console software systems, including monitor, keyboard, mouse, microphones, speakers, headset jacks, footswitches, and CAB
- Time synchronization devices
- Uninterruptible power supply (UPS) for only 9-1-1-related equipment; if a UPS serves more than 9-1-1 equipment, only a percentage of the total cost is allowable
- Emergency power generator serving the 9-1-1 center; if a generator serves more than the 9-1-1 center, only a percentage of the total cost is allowable
- Radio network switching equipment used exclusively for 9-1-1 centers' radio dispatch consoles
- Fax modem for rip and runs
- Printers
- Radio console Ethernet switch
- Radio console access router
- Backup storage equipment for 9-1-1 database systems
- Mobile message switch
- Paging interface with CAD system
- Alpha/Numeric pager tone generator
- Radio consolette, configured for exclusive use at the dispatcher work station for dispatcher operation to perform dispatch function when there is no traditional console installed at the workstation
- Handheld GPS devices that are used strictly for 9-1-1 addressing; must meet or exceed the requirements of "Mapping Grade GPS Receiver" as defined in the Global Positioning



## System (GPS) Data Collection and Documentation Standards established by the North Carolina Geographic Information Coordinating Council

### Training:

- Individual class registration for maintenance and operation of the 9-1-1 system and specific 9-1-1 intake and related call taking training, managing of a PSAP and supervising PSAP staff
- Out-of-state training if the class is not offered in North Carolina six months prior to or six months after the scheduled out-of-state class
- Allowable travel expenses not exceeding local government or North Carolina per diem rates

### Support Functions (Implemental Functions)

- Maintenance, database provisioning, and addressing functions costs implemental to receiving and utilizing voice and data and maintenance costs of dispatch equipment located exclusively within a building where a 9-1-1 center is located





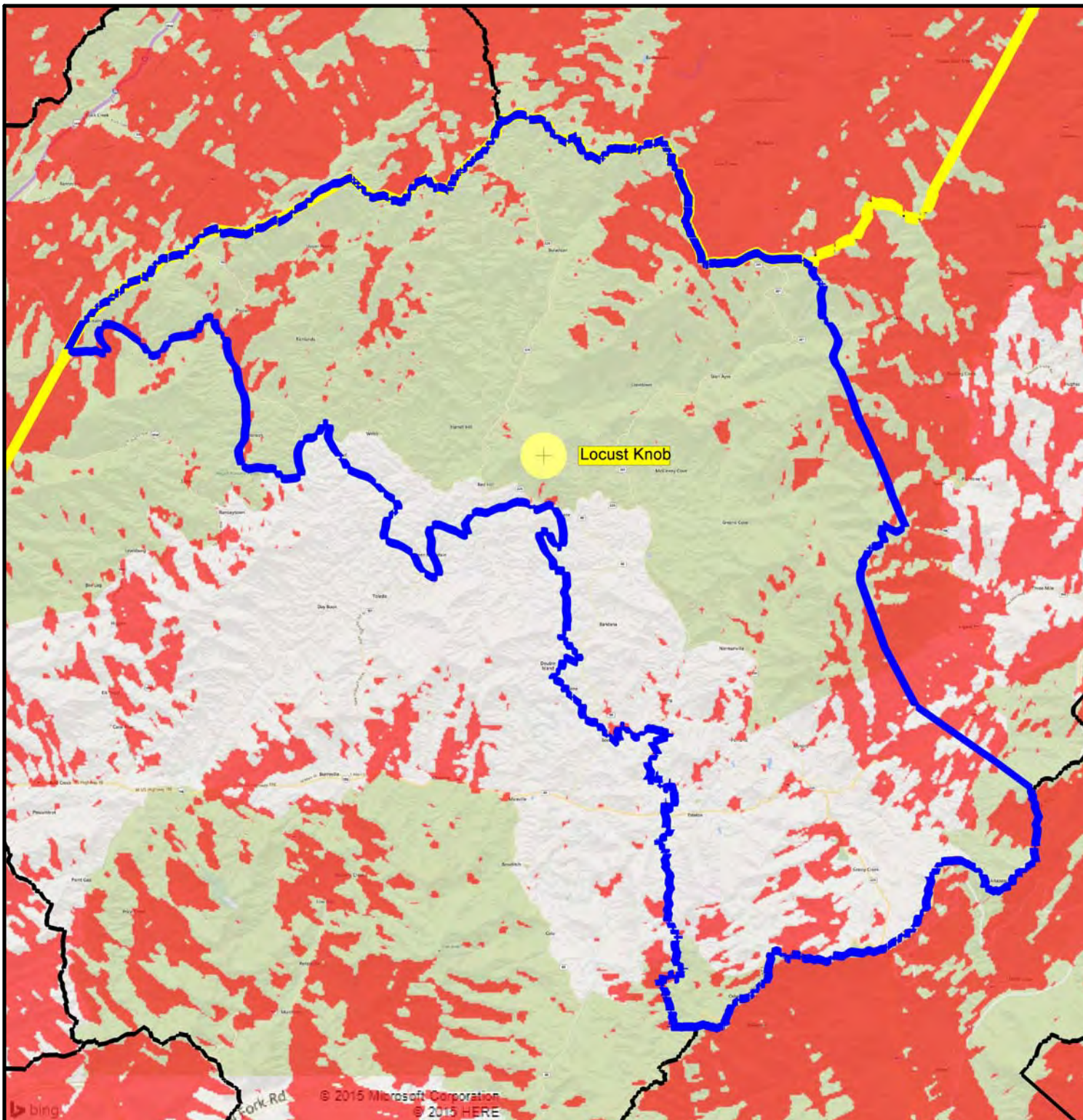
## Appendix B—Technology Cost Estimates

Technology Systems	Cost Estimate	Comments / Notes
9-1-1 Telephone System	\$235,000.00	Opinion of costs before any discounts, including one-year support
Radio Console Stations	\$200,000.00	5-position radio console system
Radio Cabling, Hardware	\$90,000.00	Cabling, radios, and hardware estimated cost
CAD Software	\$400,000.00	CAD software suite including GIS/Mapping, mobile data with AVL, at (5 licenses per application) CAD Tier 2 system support; County may choose not to include mobile data with AVL, which may reduce the cost
NetClock	\$20,500.00	NetClock system including hardware/software and installation
9-1-1 Workstations	\$150,200.00	5 workstations, installation, delivery, extended warranty plan (3 year)
Workstation Chairs	\$10,000.00	5 dispatch workstation chairs
IT network, Equipment, Software, Storage area network (SAN), Computers	\$150,000.00	Hardware, network gear, racks/cabinets, and software for 9-1-1 Data Center
Keyboards, Mice, PCs	\$15,800.00	PCs and supporting equipment for office environment hardware
Generator	\$81,000.00	Generator, installation, and other related charges; County may choose to move the existing generator that was recently implemented
UPS	\$59,000.00	Eaton 50KVA 120/208 volt UPS
Communications Tower	\$157,000.00	150-foot tower, hardware/software, accessories, installation, grounding
Site Assessment Studies, Federal Aviation AA/FCC Applications	\$10,000.00	Geotechnical and environmental impact studies, applications, licenses
Grounding System	\$39,500.00	Facility grounding only; radio Tower grounding
Structured Cabling System	\$42,000.00	Assumption is a 6,000 square foot (SF) facility at \$7.00/SF cabling cost
Audiovisual (A/V) Systems	\$150,000.00	A/V system and supporting equipment
Access Control/Security Systems	\$61,000.00	Cameras, door access, closed circuit television (CCTV) monitoring, alarms
<b>Technology Systems Estimates TOTAL</b>	<b>\$1,871,000.00</b>	<b>Budgetary Estimate</b>



## **Appendix C—Propagation Studies**

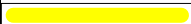
Propagation maps can be found on the following pages.





EDX® SignalPro®: Mitchell\_NC

Prop. model 1: Anderson-2D v1.00  
Time: 50.0% Loc.: 50.0%  
Prediction Confidence Margin: 10.2dB  
Climate: Continental Temperate  
Land use (clutter): none  
Atmospheric Abs.: none  
K Factor: 1.333

 Mitchell County

 US States

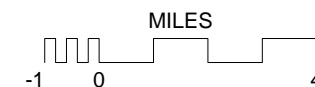
Received Power at remote

  $\geq$  -97.7 dBmW  
  $<$  -97.7 dBmW

Display threshold level: -250.0 dBmW  
RX Antenna - Type: ISOTROPIC  
Height: 3.0 ft AGL Gain: 0.00 dBd

Notes

Mobile radio with trunk-mounted antenna



**MissionCriticalPartners**

Mitchell County, North Carolina  
VHF EMS Paging Coverage








EDX® SignalPro®: Mitchell\_NC

Prop. model 1: Anderson-2D v1.00  
Time: 50.0% Loc.: 50.0%  
Prediction Confidence Margin: 10.2dB  
Climate: Continental Temperate  
Land use (clutter): none  
Atmospheric Abs.: none  
K Factor: 1.333

 Mitchell County

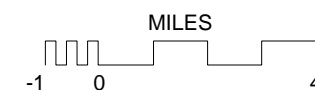
Received Power at remote

	>= -104.5 dBmW	DAQ3.4 or better
	-115.3 to -104.5 dBmW	DAQ2.0 - DAQ3.4
	< -115.3 dBmW	Below DAQ2.0

Display threshold level: -250.0 dBmW  
RX Antenna - Type: ISOTROPIC  
Height: 5.5 ft AGL Gain: 0.00 dBd

Notes

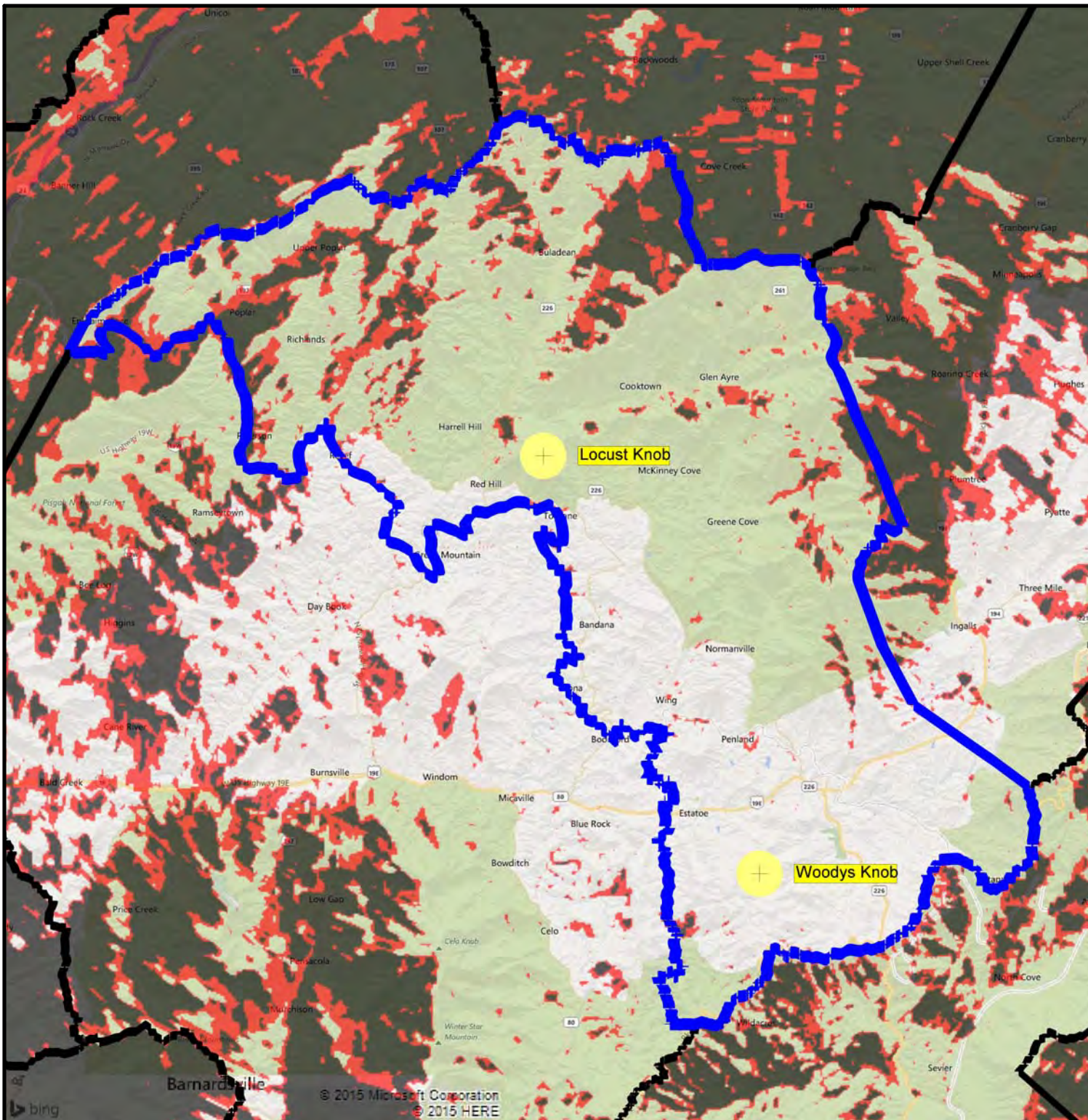
Mobile radio with trunk-mounted antenna



**MissionCriticalPartners**

Mitchell County, North Carolina  
VHF Analog Coverage  
Mobile Talkout Coverage








EDX® SignalPro®: Mitchell\_NC

Prop. model 1: Anderson-2D v1.00  
Time: 50.0% Loc.: 50.0%  
Prediction Confidence Margin: 10.2dB  
Climate: Continental Temperate  
Land use (clutter): none  
Atmospheric Abs.: none  
K Factor: 1.333

 Mitchell County

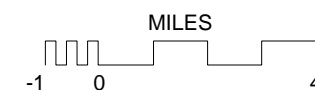
Received Power at remote

	>= -88.9 dBmW	DAQ3.4 or better
	-99.7 to -88.9 dBmW	DAQ2.0 - DAQ3.4
	< -99.7 dBmW	Below DAQ2.0

Display threshold level: -250.0 dBmW  
RX Antenna - Type: ISOTROPIC  
Height: 3.0 ft AGL Gain: 0.00 dBd

#### Notes

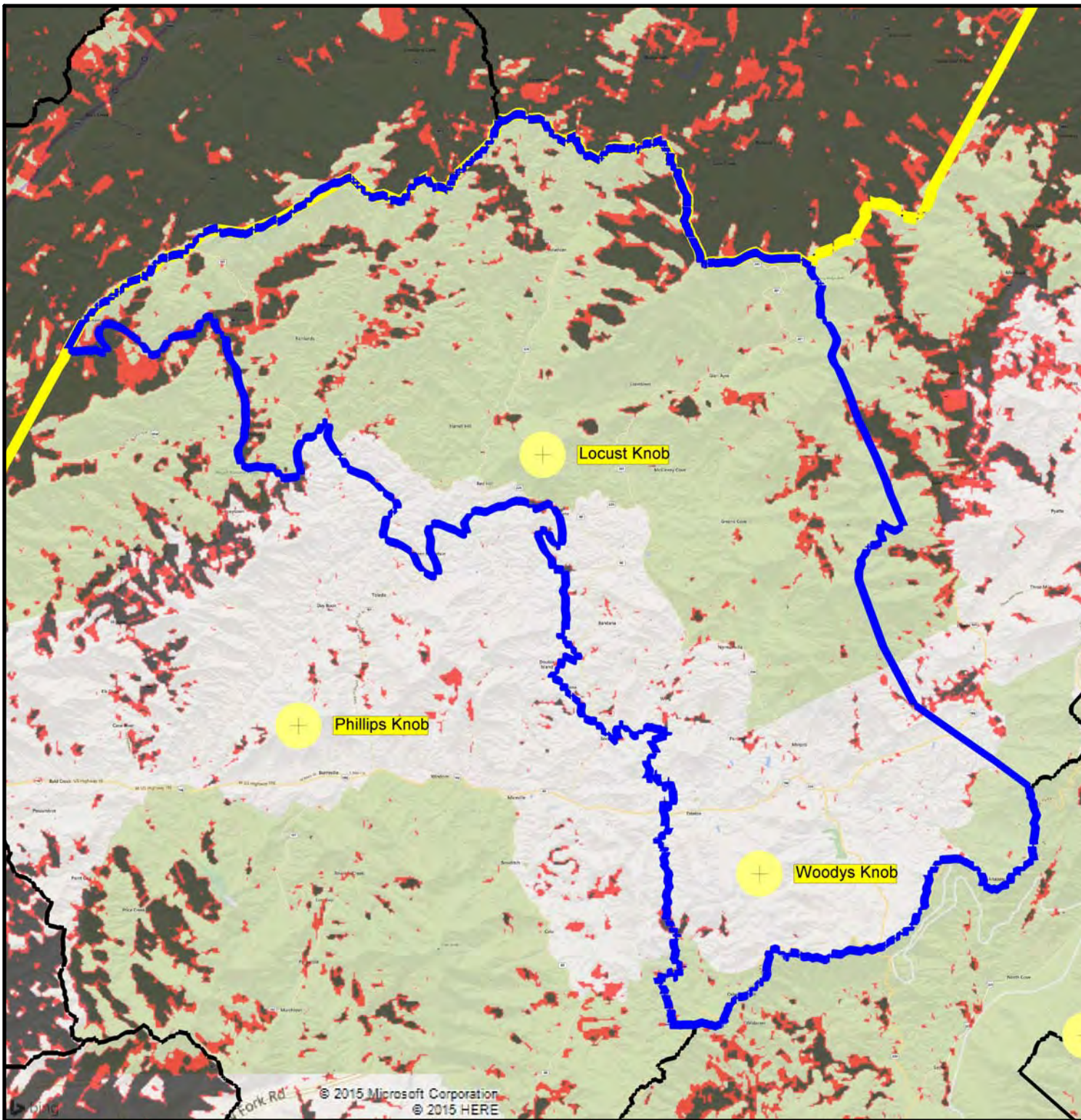
Portable at hip level on a swivel clip



**MissionCriticalPartners**

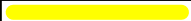
Mitchell County, North Carolina  
VHF Analog Coverage  
Portable Talkout Outdoor Coverage








EDX® SignalPro®: Mitchell\_NC

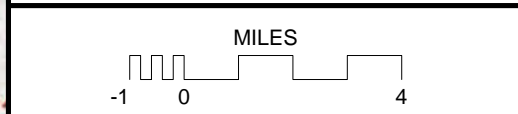
Prop. model 1: Anderson-2D v1.00  
Time: 50.0% Loc.: 50.0%  
Prediction Confidence Margin: 10.2dB  
Climate: Continental Temperate  
Land use (clutter): none  
Atmospheric Abs.: none  
K Factor: 1.333

 Mitchell County  
 US States

Received Power at remote  
  $\geq -108.0$  dBmW Better than DAQ3.4 (n  
  $-118.1$  to  $-108.0$  dBmW DAQ2.0 - DAQ3.4 (us  
  $< -118.1$  dBmW Worse than DAQ2.0 (

Display threshold level:  $-250.0$  dBmW  
RX Antenna - Type: ISOTROPIC  
Height: 5.0 ft AGL Gain: 0.00 dBd

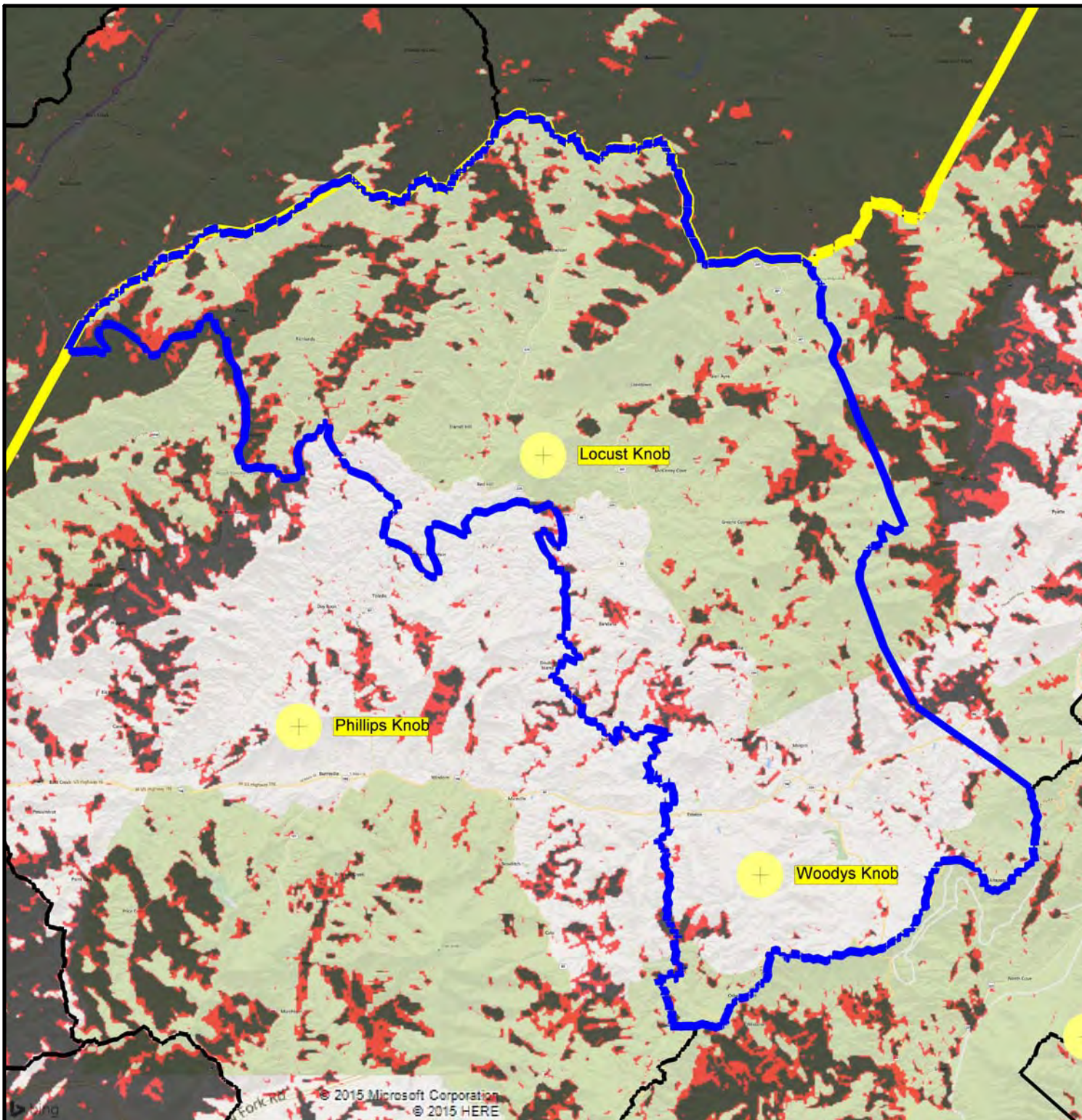
Notes  
Mobile radio with 35 Watt ERP



**MissionCriticalPartners**

Mitchell County, North Carolina  
VIPER 800 MHz P25 System  
Mobile Coverage - trunk mounted antenna

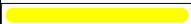







EDX® SignalPro®: Mitchell\_NC

Prop. model 1: Anderson-2D v1.00  
Time: 50.0% Loc.: 50.0%  
Prediction Confidence Margin: 10.2dB  
Climate: Continental Temperate  
Land use (clutter): none  
Atmospheric Abs.: none  
K Factor: 1.333

 Mitchell County

 US States

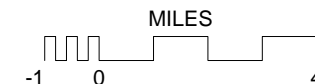
Received Power at remote

	>= -97.0 dBmW	DAQ3.4 or better
	-107.1 to -97.0 dBmW	DAQ2.0 - DAQ3.4
	< -107.1 dBmW	Worse than DAQ2.0

Display threshold level: -250.0 dBmW  
RX Antenna - Type: ISOTROPIC  
Height: 3.0 ft AGL Gain: 0.00 dBd

Notes

Mobile radio with trunk-mounted antenna



**MissionCriticalPartners**

Mitchell County, North Carolina

VIPER 800 MHz P25 coverage

Portable Talkout Outdoor Coverage



## **Appendix D—Preliminary Design and Programming Documents**

SGA's preliminary facility design, site plan and programming documents can be found on the following pages.



# MITCHELL COUNTY, NC

Proposed Communication Center and Sheriff Department  
Concept Design

21 October 2015



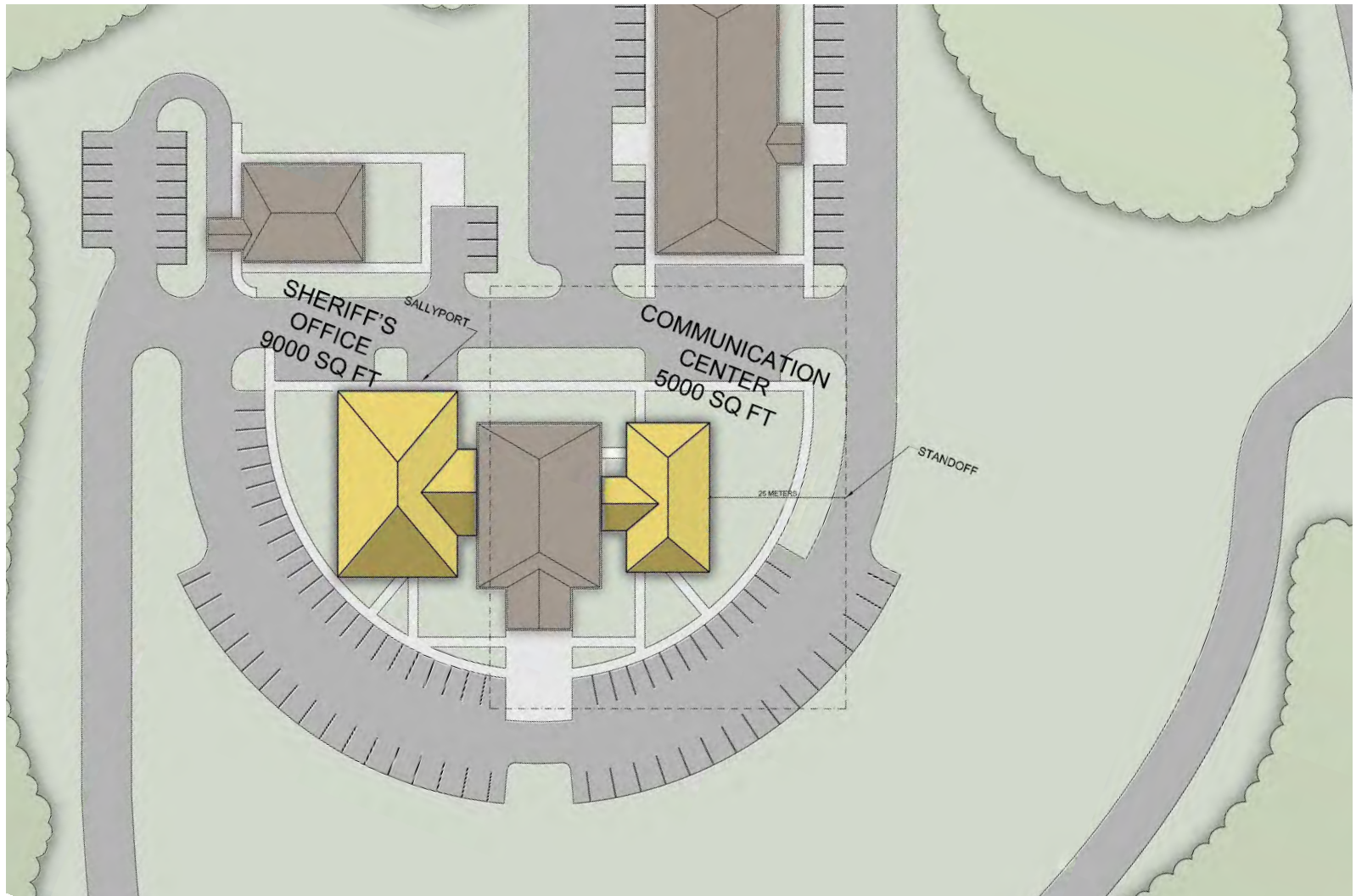
**MissionCriticalPartners** **SCHRADERGROUP** architecture LLC



## OPTION 1

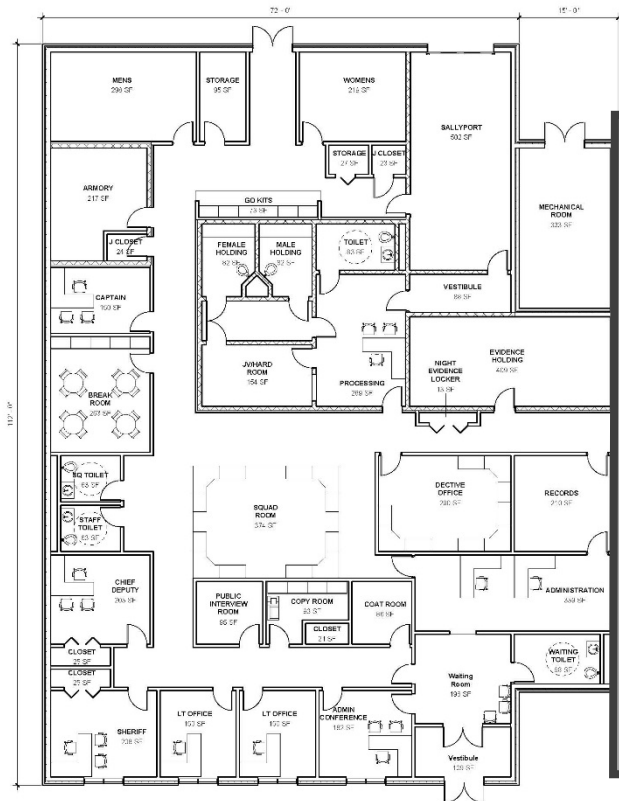
County Courthouse Complex Location  
Existing Conditions



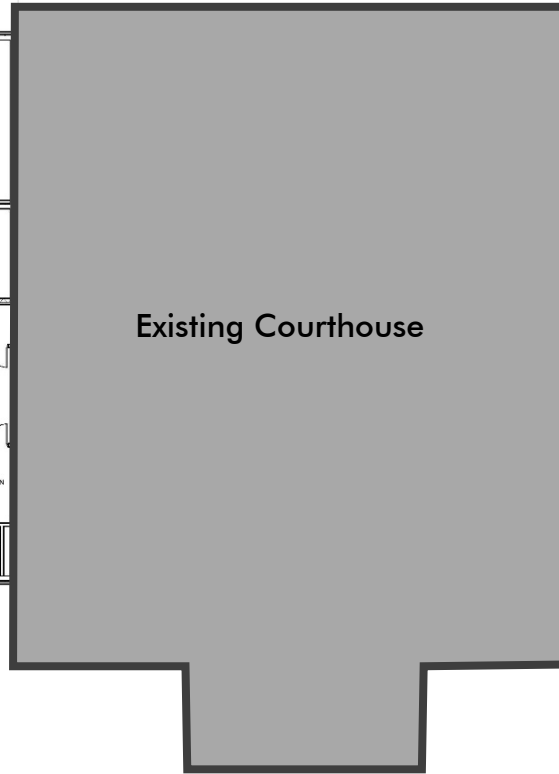


## OPTION 1

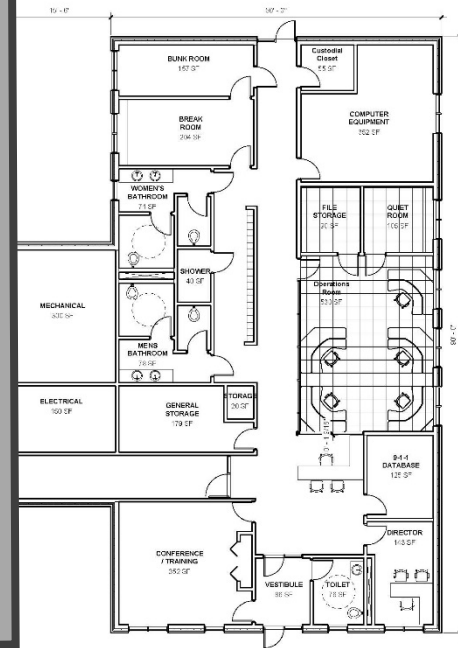
County Courthouse Complex Location  
Proposed Site Plan



Proposed Sheriff Facility



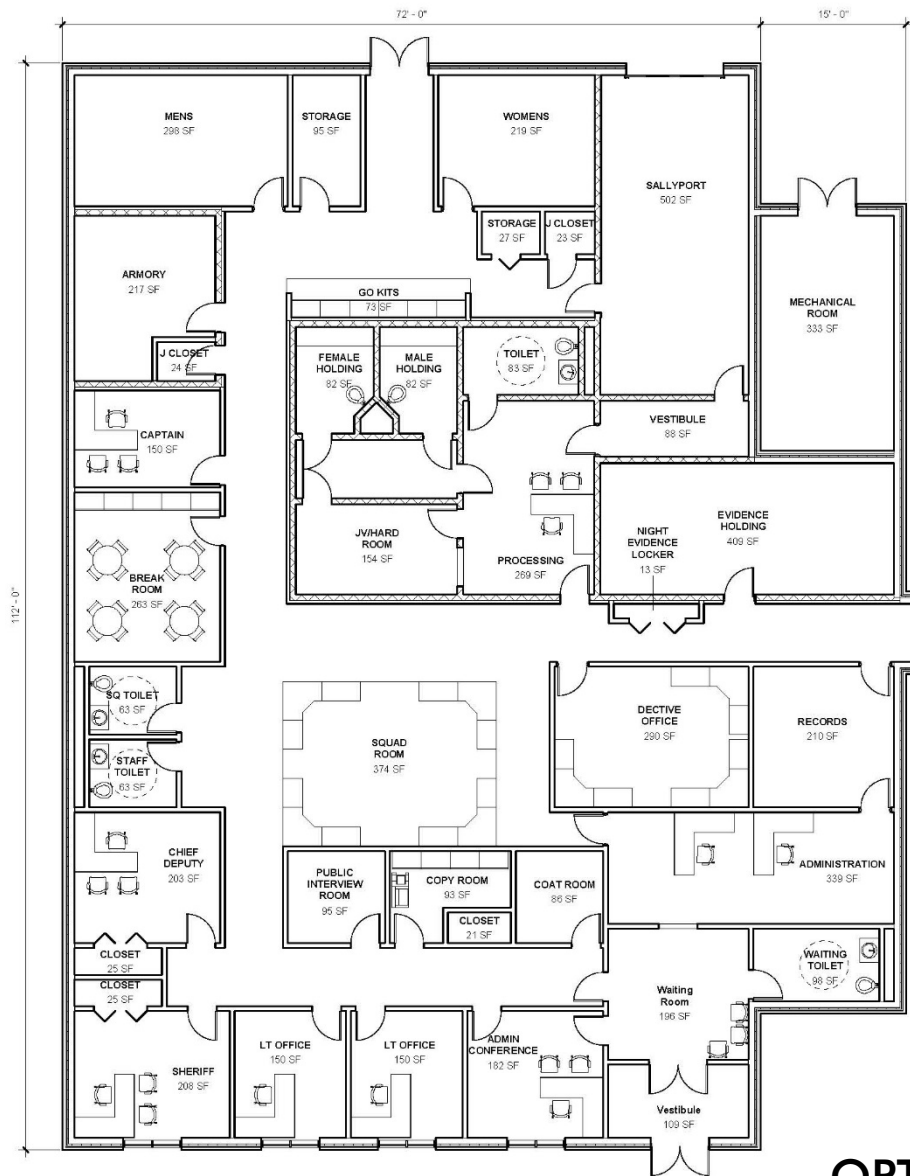
Existing Courthouse



Proposed Comm Center

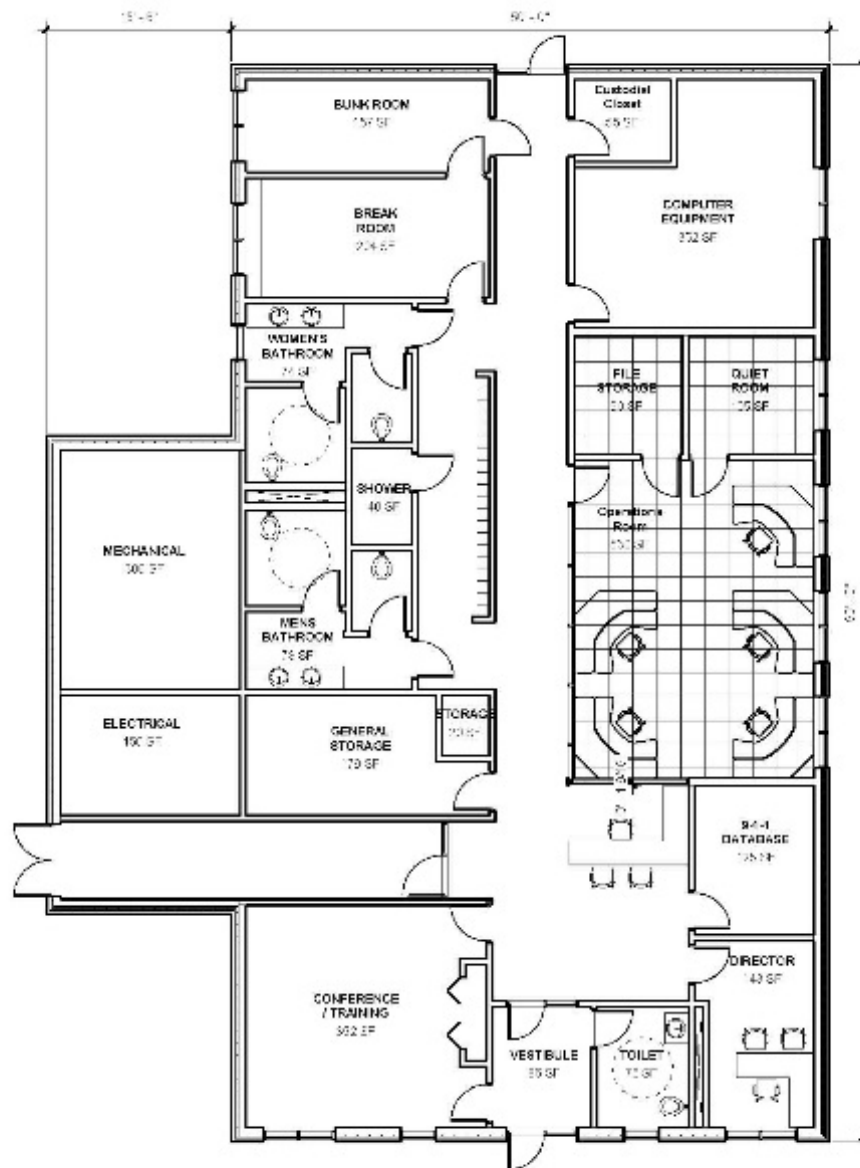
## OPTION 1

County Courthouse Complex Location  
Proposed Overall Floor Plan



## OPTION 1

County Courthouse Complex Location  
Large Scale Sheriff Facility Plan



## OPTION 1

County Courthouse Complex Location  
Large Scale Comm Center Plan

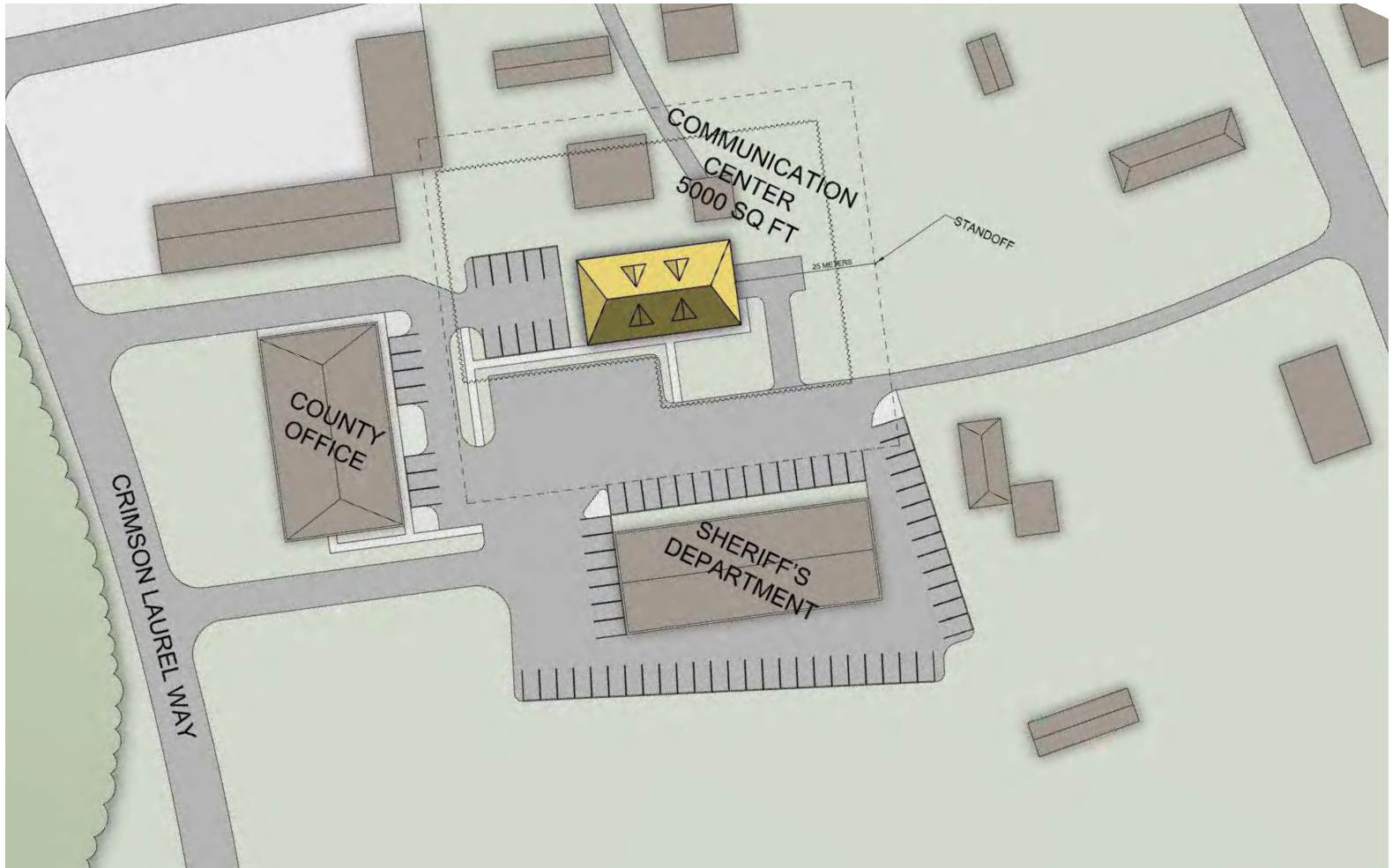




## OPTION 2

County Admin Complex Location  
Existing Conditions





## OPTION 2

County Admin Complex Location  
Proposed Site Plan



MITCHELL COUNTY, NC					
PROPOSED NEW EMERGENCY SERVICES FACILITY					
Bakersville, NC		Building Area		4,838 s.f.	
				0 s.f.	
BUDGET COST ANALYSIS		Total Area		4,838 s.f.	
Date: 21-Oct-15		Project Phase: Programming			
COST PHASE - CONSTRUCTION					
BUILDING CONSTRUCTION COSTS		cost/s.f. (using building construction cost only)			
1	Total Building Construction Cost Estimate	\$350.00	s.f.	\$	1,693,136
SITE CONSTRUCTION					
2	Total Site Construction Cost Estimate	\$50.00	s.f.	\$	241,877
3	GRANDTOTAL CONSTRUCTION ESTIMATE			*	\$ 1,935,013
4	escalation @	8.00%		\$	154,801
5				SUBTOTAL	\$ 2,089,814
6	Const. Contingency @	10%		\$	208,981.40
7		\$ 475.20		GRANDTOTAL	\$ 2,298,795
COST PHASE - DESIGN					
8	Programming and Needs Assessment (already completed)			NA	
9	A/E Design Fee	@	9.0%	\$	206,892
10	Expenses			\$	10,000
11	Telecomm. Consultant Design & Project Management			-	In telecomm budget
12	Geotechnical Investigation			\$	7,500
13	Land Survey Services			\$	5,000
14	Inspection / Testing Services			\$	25,000
15	Land Development Approvals			NA	
16	Total Design Services			\$	254,392
COST PHASE - PERMITS					
17	State Approvals			\$	10,000
18	Building Permit			\$	20,000
19	Highway/Streets Permits			\$	-
20	Water Service / Sanitary Service			\$	5,000
21	FAA Approval (tower)			\$	-
22	Other Approvals			\$	15,000
23	Total Permitting			\$	50,000
COST PHASE - TECHNOLOGY & FFE					
Communications					
24	Call Handling			\$	-
25	CAD			\$	-
26	Radio Console System			\$	-
27	Mapping			\$	-
28	Workstations			\$	-
29	MIS			\$	-
30	Logging Recorder			\$	-
	Subtotal				
Other Systems					
31	Audio Video Systems			\$	-
32	Off-Site Electrical/Telecomm Utility Connection			\$	-
33	Ancillary Computer Equipment for entire building offices only			\$	10,000
34	Other			\$	-
35	Subtotal			\$	10,000
Other Costs					
36	Furniture (not including console furniture)			\$	42,000
37	Subtotal			\$	42,000
38	Total Technology & FFE Costs			\$	52,000
COST PHASE - PROJECT BUDGET					
39	Project Contingency	@	10%	\$	265,519
40	TOTAL PROJECT BUDGET			\$	2,920,706

# MITCHELL COUNTY, NORTH CAROLINA COMMUNICATION CENTER Conceptual Programming

TOTAL PROGRAM SUMMARY		NSF	Grossing Factor		GSF	Total
1.0	LOBBY/ BUILDING ENTRY	134	28	%	37	171
2.0	9-1-1 ADMINISTRATION	335	30	%	101	436
3.0	OPERATIONS ROOM	520	65	%	380	900
4.0	CONFERENCE/ TRAINING	350	40	%	170	520
5.0	SHARED STAFF SUPPORT	670	83	%	494	1164
6.0	COMPUTER EQUIPMENT	111	124	%	151	262
7.0	BUILDING SERVICES	200	25	%	50	250
8.0	BUILDING SYSTEMS	420	20	%	84	504
Subtotal		2740	52	%	1467	4207
Building GSF @ 15%					631	
TOTAL BUILDING		2740			2098	4838

		Space Code	Area/ Unit	Proposed # Units	NSF	Grossing Factor		GSF	Total	Comments
1.0	LOBBY/ BUILDING ENTRY									
1.0										
1.01	Secure Vestibule		64	1	64	20	%	13	77	
1.02	Restroom		70	1	70	35	%	25	95	
				<b>Subtotal</b>	<b>134</b>	<b>28</b>	<b>%</b>	<b>37</b>	<b>171</b>	
2.0	9-1-1 ADMINISTRATION									
2.0										
2.01	9-1-1 Director	CO	120	1	120	30	%	36	156	
2.02	9-1-1 Database Administrator/QA	CO	100	1	100	30	%	30	130	
2.03	Copy/Work Area		100	1	100	30	%	30	130	
2.04	Storage		15	1	15	30	%	5	20	
				<b>Subtotal</b>	<b>335</b>	<b>30</b>	<b>%</b>	<b>101</b>	<b>436</b>	
3.0	OPERATIONS ROOM									
3.0										
3.01	Communication Floor									
3.02	Consoles	WS	64	3	192	100	%	192	384	Staff two at one time
3.03	Training/ McDowell County	WS	64	2	128	100	%	128	256	
3.04	File Storage/ with work surface		100	1	100	30	%	30	130	Adjacent to the floor. Secure. NCIC and warrants held here
3.05	Quiet Room		100	1	100	30	%	30	130	Four person table and a lounge chair
				<b>Subtotal</b>	<b>520</b>	<b>65</b>	<b>%</b>	<b>380</b>	<b>900</b>	
4.0	CONFERENCE/ TRAINING									
4.0										
4.01	Conference and Training Room		15	15	325	50	%	163	488	DCI Testing equipment
4.02	Storage		25	1	25	30	%	8	33	
				<b>Subtotal</b>	<b>350</b>	<b>40</b>	<b>%</b>	<b>170</b>	<b>520</b>	

		Space Code	Area/ Unit	Proposed # Units	NSF	Grossing Factor		GSF	Total	Comments
5.0	SHARED STAFF SUPPORT									
5.0										
5.01	Lockers		2.5	20	50	200	%	100	150	
5.02	Shower with changing		40	1	40	35	%	14	54	
5.03	Men's Toilet		70	2	140	100	%	140	280	
5.04	Women's Toilet		70	2	140	100	%	140	280	
5.05	Bunk Room		100	1	100	30	%	30	130	
5.06	Kitchen/Break Room		200	1	200	35	%	70	270	Industrial refrig etc
				Subtotal	670	83	%	494	1164	
6.0	COMPUTER EQUIPMENT									
6.0										
6.01	All Equipment		12	6	72	150	%	108	180	
6.02	CRAC Unit		12	1	12	150	%	18	30	
6.03	UPS		12	1	12	150	%	18	30	
6.04	Workbench		15	1	15	45	%	7	22	integrated
				Subtotal	111	124	%	151	262	
7.0	BUILDING SERVICES									
7.0										
7.01	Custodial Closets		60	1	60	25	%	15	75	
7.02	Receiving		40	1	40	25	%	10	50	Double doors
7.03	General Storage		100	1	100	25	%	25	125	
				Subtotal	200	25	%	50	250	
8.0	BUILDING SYSTEMS									
8.0										
8.01	HVAC Room		300	1	300	20	%	60	360	
8.02	Electrical		120	1	120	20	%	24	144	
8.03	Generators		0	0	0	20	%	0	0	Outside
				Subtotal	420	20	%	84	504	

MITCHELL COUNTY, NC				
PROPOSED NEW SHERIFF DEPARTMENT FACILITY				
Bakersville, NC		Building Area	8,690 s.f.	
			0 s.f.	
BUDGET COST ANALYSIS		Total Area	8,690 s.f.	
Date: 21-Oct-15		Project Phase: Programming		
COST PHASE - CONSTRUCTION				
BUILDING CONSTRUCTION COSTS		cost/s.f. (using building construction cost only)		
1	Total Building Construction Cost Estimate	\$285.00 s.f.		\$ 2,476,561
SITE CONSTRUCTION				
2	Total Site Construction Cost Estimate	\$30.00 s.f.		\$ 260,691
3	GRANDTOTAL CONSTRUCTION ESTIMATE		*	\$ 2,737,252
4	escalation @	8.00%		\$ 218,980
5			SUBTOTAL	\$ 2,956,232
6	Const. Contingency @	10%		\$ 295,623.17
7		\$ 374.22	GRANDTOTAL	\$ 3,251,855
COST PHASE - DESIGN				
8	Programming and Needs Assessment (already completed)		NA	
9	A/E Design Fee @	8.0%	\$ 260,148	
10	Expenses		\$ 10,000	
11	Telecomm. Consultant Design & Project Management		-	
12	Geotechnical Investigation		\$ 3,000	
13	Land Survey Services		\$ 5,000	
14	Inspection / Testing Services		\$ 25,000	
15	Land Development Approvals		NA	
16	Total Design Services			\$ 303,148
COST PHASE - PERMITS				
17	State Approvals		\$ 10,000	
18	Building Permit		\$ 30,000	
19	Highway/Streets Permits		\$ -	
20	Water Service / Sanitary Service		\$ 5,000	
21	FAA Approval (tower)		\$ -	TBD
22	Other Approvals		\$ 20,000	
23	Total Permitting			\$ 65,000
COST PHASE - TECHNOLOGY & FFE				
Communications				
24	Police Technology		\$ 50,000	Allowance
25	Other Tech Functions Subtotal		\$ 20,000	Allowance
Other Systems				
26	Audio Video Systems		\$ 10,000	Allowance
27	Off-Site Electrical/Telecomm Utility Connection		\$ -	
28	Ancillary Computer Equipment for entire building		\$ 28,000	
29	Other		\$ 20,000	
30	Subtotal		\$ 58,000	
Other Costs				
31	Furniture (not including console furniture)		\$ 80,000	
32	Subtotal		\$ 80,000	
33	Total Technology & FFE Costs			\$ 158,000
COST PHASE - PROJECT BUDGET				
34	Project Contingency @	10%	Subtotal \$ 377,800	\$ 3,778,003
35	TOTAL PROJECT BUDGET			\$ 4,155,804

**MITCHELL COUNTY, NORTH CAROLINA**  
**SHERIFF DEPARTMENT**  
**Conceptual Programming**

TOTAL PROGRAM SUMMARY		NSF	Grossing Factor		GSF	Total
1.0	ADMINISTRATIVE	1960	31 %		645	2605
2.0	SQUAD OPERATIONS	676	35 %		253	929
4.0	DETECTIVES	747	29 %		218	965
5.0	HOLDING/ INTERVIEW	935	28 %		212	1147
7.0	COMMON SPACE	1382	54 %		529	1911
	Subtotal	5700	25 %		1856	7556
	Building GSF @ 15%				1133	
	GRANDTOTAL TOTAL BUILDING AREA	5700			2990	8690

		Space Code	Area/ Unit	Units	NSF	Grossing Factor		GSF	Total	Comments
1.0	ADMINISTRATIVE									
1.0	Sheriff Administration									
1.01	Sheriff Administration	CO	225	1	225	30 %		68	293	
1.02	Closet	CO	20	1	20	30 %		6	26	
1.03	Chief Deputy	CO	175	1	175	30 %		53	228	
1.04	Closet	CO	20	1	20	30 %		6	26	
1.05	Administrative Conference	CO	20	8	160	30 %		48	208	Between Sheriff & Chief Deputy Offices.
1.06	LT Office	CO	175	2	350	30 %		105	455	
1.07	Closet	CO	20	2	40	30 %		12	52	
1.08	Administrative Support	WS	100	2	200	50 %		100	300	
1.09	Records		200	1	200	50 %		100	300	Compact File Storage in the same space as the current file area
1.10	Lobby/ Waiting		150	1	150	25 %		38	188	
1.11	Public Interview Room		100	1	100	30 %		30	130	With finger printing capability
1.12	Copy Room		100	1	100	25 %		25	125	
1.13	Supply/ Coat Room		40	1	40	25 %		10	50	
1.14	Staff toilet		60	2	120	25 %		30	150	
1.15	Waiting Toilet		60	1	60	25 %		15	75	
				Subtotal	1960	31 %		645	2605	
2.0	SQUAD OPERATIONS									
2.0	Squad Operations									
2.01	Captain	SO	130	1	130	30 %		39	169	
2.02	Closet		20	1	20	30 %		6	26	
2.03	Squad Room	WS	64	4	256	50 %		128	384	4 shared spaces for 8 total officers
2.04	Form Area		10	1	10	50 %		5	15	Form filing and form boxes
2.05	Armory		100	1	100	30 %		30	130	Gun cleaning and repair bench, sonic cleaning and sink. Gun racks etc.. Compressed air
2.06	Squad Vestibule Storage (Go Kits)		100	1	100	30 %		30	130	Cubbie area for millennium suits etc.. Storage for ancillary equipment
2.07	Toilet Rooms		60	1	60	25 %		15	75	shared with Traffic
				Subtotal	676	35 %		253	929	

		Space Code	Area/ Unit	Units	NSF	Grossing Factor	GSF	Total	Comments
4.0	DETECTIVES								
4.0	Detectives								
4.01	Detective Office	CO	100	3	300	30 %	90	390	
4.02	Closet		20	1	20	30 %	6	26	
4.03	Storage		40	1	40	25 %	10	50	Surveillance Equipment Storage
4.04	Conference Room		20	6	120	30 %	36	156	
4.05	Evidence Holding		150	1	150	25 %	38	188	Adjacent to Processing Room
4.06	Drug Evidence		40	1	40	25 %	10	50	
4.07	Firearms Evidence		40	1	40	25 %	10	50	
4.08	Night Evidence Drop Lockers		4	8	32	50 %	16	48	2 long lockers and 6 boxes
4.09	Night evidence refrig		5	1	5	50 %	3	8	Two sided lockable
4.10	Bulk Evidence Storage in outbuilding		0	0	0	0 %	0	0	Bulk Storage Outside
				Subtotal	747	29 %	218	965	
5.0	HOLDING/ PROCESSING/ INTERVIEW								
5.0	Holding/ Processing/ Interview								
5.01	Male holding Area		80	1	80	30 %	24	104	
5.02	Female Holding Area		80	1	80	30 %	24	104	
5.03	Juvenile Interview Room/ Hard Interview Room		100	1	100	30 %	30	130	
5.04	Toilet		60	1	60	35 %	21	81	
5.05	Vehicle Sallyport		360	1	360	10 %	36	396	One vehicle - Tahoe size, eyewash/ gun lockers, floor drains, unit heaters etc
5.06	Processing Area		175	1	175	30 %	53	228	Exit to prisoner release room
5.07	Secure Vestibule		80	1	80	30 %	24	104	
				Subtotal	935	28 %	212	1147	
7.0	COMMON SPACES								
7.0	Common Spaces								
7.01	Kitchen/ Break Area		200	1	200	30 %	60	260	
7.02	Toilet Room		60	1	60	35 %	21	81	
7.03	Men's Toilet/ Shower		40	3	120	35 %	42	162	Two toilets, 1 shower
7.04	Men's Lockers		5	20	100	200 %	200	300	
7.05	Women's Toilet/ Shower		40	3	120	35 %	42	162	One toilet, 1 shower
7.06	Women's Lockers		5	5	25	200 %	50	75	
7.07	Storage Closet		25	1	25	25 %	6	31	
7.08	Storage		300	1	300	20 %	60	360	
7.09	Mechanical Area		300	1	300	10 %	30	330	
7.10	Electrical Room		100	1	100	10 %	10	110	
7.11	Elec Closets		16	1	16	25 %	4	20	
7.12	Custodial Closets		16	1	16	25 %	4	20	
				Subtotal	1382	54 %	529	1911	



## STRUCTURAL OUTLINE SPECIFICATION

### DESIGN CODE AND LOADING CRITERIA

#### Applicable Codes:

2012 North Carolina Building Code  
International Construction Code (ICC) and  
ICC 500 – Standard for the Design and Construction of Storm Shelters  
ASCE 7-05

Building Occupancy Category: Business Occupancy with an Accessory Use of A3

#### Wind Load (ICC 500)

Basic Wind Speed: 200 miles per hour  
Importance Factor: 1.0  
Exposure Category: C

#### Building Load

Ground Snow Load: 10 pounds per s.f.  
Minimum Roof Live Load: 20 pounds per s.f.

#### Seismic Load

Project Location: 35.12 Latitude, 75.19 Longitude (approx.)

Mapped Spectral Response Acceleration:

Short Period,  $S_s$  = .326g

1-second Period,  $S_1$  = .109 g

Importance Factor: 1.5

Determination of Site Class, Design Spectral Response Parameters, and corresponding Seismic Design Category are contingent on the results of subsurface geotechnical examination.

### SUBSURFACE CONDITIONS

A geotechnical study will be conducted for the proposed building site to determine the nature of the underlying soil conditions and provide recommendations for building foundation structures and corresponding design parameters (e.g. allowable bearing pressure, lateral soil loads, groundwater location, seismic site classification, etc). The underlying geologic conditions and resulting design parameters have a broad impact on the foundation and lateral load-resisting systems that will be designed for this building. The following descriptions of proposed building systems are based on the assumption that there are no unusual soil conditions that will require anything beyond conventional design and construction methods.

## **DIVISION 03 - CONCRETE**

### **Typical Foundation Construction**

Reinforced, cast-in-place concrete footings will be used to construct a shallow foundation system under building columns and walls, and will be used for column-supporting piers. Footings along exterior walls will be embedded approximately 2'-0" below the planned first floor elevation to provide protection from frost heave. Deeper embedment will be required under the hardened portion of the building. Foundation walls will generally consist of concrete masonry unit (CMU) block construction, fully grouted below grade or cast in place concrete.

### **Roof System – Hardened Facility**

The roof system over the "hardened" portion of the facility will consist of a combination of standing seam roof panels and a monolithic, fully-adhered membrane system over insulation on a metal pan roof deck with concrete topping. The balance of the facility will consist of a combination of standing seam exterior system on insulation and a monolithic fully adhered roof system on insulation on a metal deck system.

## **DIVISION 04 – MASONRY**

The building facade will be designed using a cavity wall system. The exterior cladding will be a combination of brick and cast stone. Portions of the "hardened" facility will also be cavity system with masonry backup. The concrete masonry perimeter walls at the hardened portion of the facility will be grouted 100% solid.

## **DIVISION 05 - METALS**

### **Building Superstructure**

All portions of the building superstructure will be structural steel-framed construction (hardened portion to be masonry wall infill construction as previously noted):

- Columns: Hollow structural section (square or rectangular) or wide-flange members.

- Hardened Roof Structure (previously noted in "Concrete") Composite roof construction with wide-flange beam and girder framing, composite metal deck, and shear studs welded to beams to provide composite action where practical and necessary. Concrete topping on metal deck shall be normal weight, 4,000 psi compressive strength, with overall slab thickness to be determined as design progresses.

- Roofs: Mixture of wide-flange beam, open-web steel bar joist framing and truss framing. Concealed roof areas will be covered with 1 ½", Type B, 20 GA, galvanized metal roof deck. Exposed areas will likely be covered with acoustic roof deck.

- On-Grade Concrete Slab: 4-inch or 5-inch-thick (TBD), 3,000 psi, normal weight concrete with integral fibrous reinforcing. Exterior slabs at door entries will be reinforced with galvanized reinforcing bar.

### **Lateral Load Resisting System**

The overall building may be separated into independent areas for the purpose of lateral load-resisting system design. Isolation will be provided through building expansion joints to create independent structural systems. The expansion joint will separate the hardened from the lesser hardened portions of the building.

In general, the lateral load-resisting system may consist of diagonally braced steel frame elements, integrated throughout the building where necessary. The braced frames can take any number of geometric forms (X, inverted V, single diagonal, etc) to work with and around various architectural constraints or requirements. Reinforced masonry shear walls will be used in the hardened areas.

## ARCHITECTURAL OUTLINE SPECIFICATION

### DIVISION 05 – METALS (continued)

See cold formed metal framing described in wall systems below

#### Typical Exterior Wall Construction

**Exterior Wall #1:** Cavity wall construction: 4" Brick and cast stone Veneer, airspace, and moisture barrier over ½" building sheathing over 6" metal studs at 16" o.c. with batt insulation

**Exterior Wall #2:** Cavity wall construction: 4" Brick and cast stone Veneer, airspace, 2" rigid insulation, moisture barrier over CMU backup. Masonry anchors at 16" O.C vertically and 24" O.C. horizontally. 4" metal studs at 16" O.C. with gypsum wall board interior

#### Typical Interior Wall Construction

**Wall Type 1 (Portions of the hardened facility):** 8" CMU (or CMU as appropriate to building height) from finished floor to underside of roof construction above, haunch floor slab minimum 8" at interior CMU wall applications, fire-safe @ top of wall between wall and structure above. Metal hat framing and gypsum finish will be provided where necessary for consistent interior finish. Interior finish to be painted where applicable with water based low VOC epoxy paints.

**Wall Type 2 (Balance of the Building):** 5/8" impact resistant gypsum wall board both sides of (TBD) gauge steel studs, sound attenuation blanket from finish floor to underside of roof structure above. Interior finish to be painted with low VOC paints. Fire-safe where necessary.

### DIVISION 6 – WOOD, PLASTICS, AND COMPOSITES

#### Wood Blocking

Wood Blocking as necessary for the project

#### Architectural Carpentry and Millwork

Architectural wood carpentry as shown on the drawings. Cabinetry and countertops of plastic laminate.

### DIVISION 7 - THERMAL AND MOISTURE PROTECTION

#### Typical Roof Construction

**Flat Roof Areas (monolithic roofing):** PVC Roofing, min. 20 year warranty, with aged R-30 (5" min.) rigid polyisocyanurate insulation over ½" cover board. Structural steel shall be sloped where possible to provide drainage. The insulation shall be tapered to provide drainage where sloping structure is not feasible.

**Roof Drainage:** Roof drainage should be accomplished through prefinished 18 ga. aluminum gutters, thru wall scuppers, and prefinished 18 ga. Aluminum rain water conductors shall convey the water to boots to an underground perimeter drainage system.

**Sloping Roofs:** Standing seam metal roof systems over 30# roofing felt, on wood nailer system, R-30 (5" min.) rigid insulation (or R-30 batt insulation below), 1 ½" 20 gauge galvanized metal deck, over steel structure.

**Aluminum Coping:** Prefinished 18 ga. Aluminum coping.

### **Dampproofing and Waterproofing**

Foundation dampproofing and wall system water proofing as described in the various assemblies described throughout.

### **Thermal Protection**

Rigid and rolled insulation as required to provide R-19 wall insulation and R-30 aged roof insulation and as shown and described in the various roof and wall assemblies.

### **Roof Accessories**

Provide roof hatches and roof ladders located throughout the major areas of the building.

### **Fire and Smoke Protection and Joint Protection**

Fire stopping, smoke seals, pre-formed joint seals and joint sealants as necessary to provide for complete construction with no air penetration and for final finish systems.

## **DIVISION 8 – OPENINGS**

### **Typical Door/Window Construction**

**Aluminum Store Front Entry Systems and aluminum window systems:** aluminum frame minimum 1 3/4" x 4 1/2", insulated tempered glazing, high performance organic coating finish on aluminum, panic hardware, closers, continuous hinge, threshold and weather-stripping to meet the following U-value standards:

1. Fixed framing: 0.58 (improved total unit to maximum .30 with physically and thermally isolated 1 inch insulated glazing).
2. Doors: 0.67 (improved total unit to maximum 0.32 with physically and thermally isolated 1 inch insulated glazing).

Glazed storefront walls are based on Kawneer 451T Storefront System. High performance organic coating finish on aluminum. Inset operable glazing panels will be located as indicated on the drawings (and as described in "Aluminum Windows" below). Glazing to be Solarban 60 Low-e.

**Typical Interior Door:** 3'-0" x 7'-0" min., "c" label solid core wood door, 5 ply, 1 3/4" thick, birch veneer door, door frame - welded frames, 16 ga. with mitered corners, painted, lever lockset, continuous hinge, kickplate, with light as required per room type.

**Exterior Door:** 3'-0" x 7'-0" min., hollow metal, painted, extra heavy duty, min 16 ga., galvanized sheet metal 1 3/4" thick, painted; Door Frame: welded frame, 14 ga. Galvanized sheet metal, mitered corners, painted, panic hardware, closers, continuous hinge, threshold, weather stripping and kick plates.

## **DIVISION 9 - FINISHES**

### **Typical Interior Finishes**

Acoustical Ceiling Tile: 2'x4' Armstrong *Ultima* in exposed prefinished metal grid to be provided in the following where noted in the schedule below; All ceiling tile to be humidity resistant.

Rubber tile (or VCT): 12"x12"x1/8" rubber floor tile where noted below. Multi-colored patterns will be used with a maximum of three colors used in any one area.

Carpet tile: 28 oz. Level loop, carpet tile, anti static nylon, anti-microbial, glue down.

Ceramic Tile: Contemporary ceramic tile systems where noted below

Quarry Tile: 6"x6"x1/8" quarry tile to be provided and installed in the Kitchen.

Raised Floor: 2'-0" x 2'-0" concrete in pan raised flooring system on adjustable metal posts systems. Raised floor to be grounded. Locate floor drain under raised floor

Sealed Concrete: Maintenance and operation areas to receive concrete with hardener and sealer.

Paint: Two coats water based low VOC epoxy paint over 1 coat block filler/sealer on all CMU surfaces. One coat primer on GWB in lieu of block filler/sealer.

### Finish Schedule

<u>Space</u>	<u>Floor Finish</u>	<u>Ceiling Finish</u>	<u>Specialty Finish</u>
Kitchen	Ceramic tile floor	ACT	
Toilet rooms	Ceramic tile floors	Gyp Ceiling	Tile wainscot/4 walls
Conf. rooms	Carpet	ACT/GWB soffit perimeter (Conf)	
Offices	Carpet.	ACT	
Bedrooms	VCT	ACT	
Corridor	Carpet	ACT	
Cust Closet	VCT	ACT	
Mech, UPS, Main Power District, Tech Storage	Sealed concrete		
Equip Room	Hard surface raised floor panels		
PSAP	Static dissipative Carpet	ACT	Raised floor
Rear Vestibule Walk off mat at front of door, and porcelain tile for remainder			

### Typical Interior Wall Construction

See interior wall systems in Division 5

### Toilet Room

Wainscot height ceramic wall tile on all walls, floors to be ceramic tile set in wet bed, each toilet to have floor mount lavatories, urinals (men's room), floor mounted Santana toilet partitions; miscellaneous toilet accessories to include; soap dispensers, toilet paper dispensers, towel dispensers, waste receptacles, mirrors, grab bars, various women's dispensers (min., one accessible toilet stall and urinal per toilet room)

## DIVISION 10 - SPECIALTIES

### Typical Moveable Partitions

Moveable partitions between spaces are to be Modernfold's Acousti-Seal 942 paired panel system, manually operated.

### Typical Signage

Interior signage to be embossed plastic with raised numbers and tactile Braille areas. Each sign for offices also to have a clear plastic insert area for the name. Every room and every doorway in the building is to receive an identification sign.

### Visual Display Boards

Visual Display and Tack Surfaces where indicated. Typically 4' x 4'.

### Typical Acoustical Treatment

Board/Conference Rooms, EOC and PSAP spaces to receive acoustical diffusers and absorbers. Assume 15% of wall surface.

### Toilet Accessories

See Shower/ Toilet Room Narrative above.

### Fire Protection Specialties

Provide semi recessed fire extinguisher cabinets.

## DIVISION 11 – EQUIPMENT

### Food Service Equipment

To be provided by Owner

## DIVISION 12 - FURNISHINGS

### Typical Casework

All general casework is to be plastic laminate covered (Maple wood plastic laminate selection typical or other selection as determined by Owner). All countertops are to be plastic laminate covered.

### Window Shades

Provide Hunter Douglas Meco Shade Shading devices on all windows including the entry lobby windows. Shading gradation and color to be selected from manufacturers standard selections.

## DIVISION 13 – SPECIAL CONSTRUCTION

Not used

## DIVISION 14 – CONVEYING EQUIPMENT

Not used

## MECHANICAL SYSTEMS NARRATIVE

### General Description

The new PSAP allows for different heating and cooling systems options. Based on the availability of utilities as well as knowledge of successful system types for this region, three main cooling systems and heating system options have been selected for evaluation of this building. Each option has the capability to provide indoor thermal comfort for occupants as well as protecting equipment. Additionally, each option also provides the ability for redundancy in case the system becomes compromised. Each system is discussed in further detail below in the section titled space heating and cooling

### Codes, Standards and Reference

- ASHRAE 62-2007, Ventilation for Acceptable Indoor Air Quality
- ASHRAE Handbooks, 2012 HVAC Systems and Equipment, 2011 HVAC Applications, 2010 Refrigeration, 2013 Fundamentals
- ASME B31.9, Building Services Piping
- NFPA 90A, Standard for the Installation of Air Conditioning and Ventilating Systems
- SMACNA HVAC Duct Construction Standards, Metal and Flexible
- North Carolina State Building Mechanical Code 2012
- North Carolina State Building Code 2012
- North Carolina State Building Energy Conservation Code 2012

### Functional and Technical Requirements

Design Conditions	Winter	Summer
Outdoor	17°F dry bulb	95°F dry bulb, 67°F MCWB
Indoor Occupiable Rooms	70°F dry bulb	75°F dry bulb, 50% relative humidity
Indoor Mechanical and Elec. Rooms	70°F dry bulb	Ventilate for 10°F dry bulb above ambient
Communication and UPS Rooms	70°F dry bulb	70°F dry bulb, 50% relative humidity

Ventilation Provision: Ventilation will meet the latest requirements of ASHRAE Standard 62

## HVAC System Design Objectives and Provisions

The following three (3) HVAC alternatives are probable candidates to serve the new single-story 911 Facility. All three alternatives considered will utilize a packaged DX, dedicated 100% outside air unit with energy recovery for conditioning of the building's Code required ventilation air. HVAC zones within the building will be considered as identical for the purposes of this evaluation.

- Alternative 1 – Split-System Heat Pumps (SSHP)
- Alternative 2 – Variable Refrigerant Flow (VRF) Heat Pumps
- Alternative 3 – Geothermal Heat Pumps (GHP)

### Alternative 1 – Split-System Heat Pump (SSHP):

This type of HVAC system utilizes a series of indoor air handlers with supplemental electric heater (one for each HVAC zone). Each indoor air handler is coupled with a dedicated outdoor heat pump condensing unit. A single air-cooled DX, 100% outside air unit will be utilized to condition ventilation air. The outside air unit would be located in the mechanical room.

#### *Advantages*

- Lowest first cost of the system types analyzed.
- Simple to maintain and repair.
- Common system type utilized throughout the commercial building sector. As such, there are no shortage of HVAC contractors capable of properly installing and servicing this system type.
- The SSHP is more common than a variable refrigerant flow and geothermal heat pumps. Therefore the initial cost is relatively lower than the other two systems.

#### *Disadvantages*

- The outdoor heat pump condensing units are subject to rapid degradation due to exposure to the outdoor air. Additionally, these units are susceptible to damage due to wind/rain which would be experienced during a tropical weather event. If the condensing units were to fail, the HVAC system would lose the ability to cool the facility which would be detrimental to the critical mission of this facility and the fact that it must remain operational during such events.
- In order to provide system redundancy to counteract a loss of a single condensing unit, a completely standalone separate HVAC system (air handler, heat pump, ductwork, etc.) would need to be provided to support back up air conditioning for a given HVAC zone. This would increase the first cost of the HVAC system.

### Alternative 2 – Variable Refrigerant Flow System (VRF):

This type of HVAC system utilizes a series of indoor air handlers/fan coil units (one for each HVAC zone) for space conditioning. Unlike a SSHP system, multiple indoor air handler/fan coil in a VRF type system can be coupled to a single outdoor heat pump type VRF condensing unit which minimizes the quantity of outdoor condensing units required. A single air-cooled DX, 100% outside air unit will be utilized to condition ventilation air. The outside air unit would be located in the mechanical room.

#### *Advantages*

- Second lowest first cost of the system types analyzed.
- Requires less outdoor equipment than a SSHP type system.
- Redundant indoor air handlers/fan coil units can be provided to support a single indoor unit failure and not impact the sizing of the associated outdoor condensing units.



*Disadvantages*

- Like a SSHP system, the outdoor VRF heat pump condensing units are subject to rapid degradation due to exposure to the outdoor air and are susceptible to damage due to wind/rain which would be experienced during a tropical weather event.
- This system type is much more complex to install than a SSHP system. As such, most VRF system manufacturers require the installing contractor to obtain specialized factory training in order to warranty the installation.

Alternative 3 – Geothermal Heat Pumps (GHP):

This type of HVAC system utilizes a series of indoor geothermal water-to-air heat pump units (one for each HVAC zone) for space conditioning. A series of vertical, closed loop geothermal wells will be provided to serve as the heat sink/source for the geothermal heat pump units. The wells will range in depth between 200 and 400 feet. The geothermal wells would be installed underground beneath grassed areas and the parking lot. Constant volume condenser water pumps will be provided to circulate condenser water between the indoor heat pumps and the geothermal well field. A single water-cooled DX (tied to the geothermal well field), 100% outside air unit will be utilized to condition ventilation air. The outside air unit would be located in the mechanical room.

*Advantages*

- Requires no outdoor equipment which would be subject to damage which could impact the reliability of the HVAC systems and consequently the mission of the facility.
- No outdoor equipment results in less equipment to maintain.
- Redundant indoor heat pump units can easily be provided to support a single indoor unit failure and not impact the sizing of the condenser water system and geothermal well field.
- Increased system efficiency as compared to the other two (2) alternatives considered.
- Extended HVAC system life as no equipment is in direct contact with the outdoors.

*Disadvantages*

- Highest first cost of the system types analyzed.

**Recommendation:**

First cost is an important factor when building a new facility, but it should not be the only factor considered when making a final decision relative to appropriate system selection. The reliability, maintenance, and long term replacement of equipment should also be considered. With the GHP system, there are only indoor geothermal heat pumps and condenser water circulating pumps to maintain. This results in less maintenance than that required for the SSHP and VRF type systems. Additionally, the service life of a GHP system will be longer than the SSHP and VRF type systems since there is no outdoor equipment which will degrade due to environmental conditions. Last, with no outdoor equipment, the system type is much more reliable as all equipment is indoor and out of the elements.

**HVAC System Noise and Filtration:** System noise will be minimized and controlled per ASHRAE Fundamental “Sound and Vibration Control” requirements. Use of 30% efficient prefilters and 95% efficient final air filters within the intake air ductwork to the VAV air handler will provide filtration. Sufficient filter pull space will be provided in the design.

**HVAC Controls:** A complete direct digital control (DDC) system shall be designed. The DDC system shall interface with all equipment and provide start/stop and alarm and communication functions. All control panels shall be located in the mechanical room. The system shall also provide time of day control, startup, temperature control, safeties, alarms, etc.

**Testing, Adjusting, and Balancing:** The specifications will include requirements for testing and balancing all airside and hydronic equipment by a firm certified by AABC, NEBB, or TABB.

**Hydronic condenser water piping systems;** will be provided with adequate isolation valves, vents, drains, balancing valves, and expansion compensation for standard performance. Hydronic piping systems will be insulated. Proper hydronic system water treatment will be provided.

**Ductwork** will be galvanized steel. All supply ductwork and all conditioned air ductwork in un-air conditioned spaces will be insulated. Manual balancing devices will be installed in duct systems as required for system balancing and access will be provided. Fire dampers with access doors will be provided at penetrations of rated surfaces as required. All ductwork will be constructed to SMACNA standards.

## PLUMBING SYSTEMS NARRATIVE

### General Description

The plumbing systems being considered for the emergency communication district will be designed using the best plumbing practices and common plumbing code requirements. Every effort will be made to minimize water use where feasible and cost effective. The plumbing fixtures will conform to ADA standards. Other requirements for special needs occupants will be addressed. All flush valves for the urinals will be "pint" flush, with the water closets being dual flush.

### Codes, Standards, & References

- North Carolina State Building Plumbing Code 2012
- North Carolina State Building Code 2012
- North Carolina State Building Energy Conservation Code 2012

### Plumbing System Design Objectives and Provisions

#### Plumbing Fixtures:

Fixtures installed will use low flow features available through several different manufacturers. Water closets will be wall or floor mounted, vitreous china material. Wall hung vitreous china urinals will be installed in the facility that also use flush valves that use the equivalent of one pint of water per flush. Sinks will be single or double bowl, stainless steel, counter top mounted with gooseneck faucets. Additionally, all lavatory and sink faucets will use low flow faucets, 0.5 gpm. Water coolers will be wall-mounted dual height stainless steel type.

#### Plumbing Materials

**Domestic Water:** Below grade domestic water cold water piping shall be Type "K" copper. Above grade domestic cold and hot water piping shall be Type "L" copper. Wrought copper pressure fittings joined with lead free solder and flux or roll grooved piping shall be used. Valves shall be bronze ASTM B62, full-port, three piece ball valves with stainless steel ball and trim. Branch piping will be zoned and valved so that maintenance to a group of fixtures can be easily accomplished without shutting down large portions of the facility.

**Sanitary Waste and Vent:** Sanitary waste and vent material below grade will be cast iron or PVC piping and fittings. Above grade sanitary waste and vent material will be cast iron piping and fittings as well.

**Domestic Hot Water System:** Domestic hot water will be provided by an electric, tank type water heater and recirculating hot water piping system with pumps.

**Backflow Prevention:** A reduced pressure principle device backflow prevention assembly will be installed on the domestic water entrance for the facility. This assembly will be located in the main mechanical room for ease of maintenance access and testing. Additional backflow prevention assemblies will be installed in the make-up water system that will serve the geothermal condenser water system.

## FIRE PROTECTION SYSTEMS NARRATIVE

### Codes, Standards, & References

- North Carolina State Building Fire Prevention Code 2012
- NFPA 13

### Fire Protection System Design Objectives and Provisions

#### Wet-Pipe System

The office area of the facility shall be protected by an automatic wet-pipe sprinkler system. The system shall be hydraulically calculated to meet NFPA 13 light hazard occupancy requirements.

#### Additional Systems

The ECC shall be protected with a double interlocked pre-action system. This system requires the activation of two detectors and melting of a sprinkler head prior to water discharge. After the first action, an alarm shall be initiated to allow the building occupants to deal with the fire before water discharge.

The data center shall be protected by an FM-200 chemical fire suppression system to prevent damage to the contents. These systems will be controlled by their own smoke and ionization detection systems and control panels which are interconnected with the building fire alarm system.

#### **Fire Protection Materials**

**General:** Incoming piping shall be ductile iron and shall connect to the Municipal water system. The service shall have a double detector check valve assembly, complete riser trim, and fire department connection.

## ELECTRICAL SYSTEMS NARRATIVE

### Main Service

Single primary feeder from a utility substation will serve a pad mounted utility transformer. Transformer shall feed a utility current transformer cabinet and 277/480v panelboard with main breakers to serve the life safety emergency branch and the remaining building load on the optional stand-by system. An allowance of 25% capacity shall be provided.

### Backup Power

A life safety emergency automatic transfer switch will be provided for the life safety loads as defined by the NEC, Article 700 and 701. Another automatic transfer switch will be provided for the remaining facility loads, which will be the optional stand-by system per the NEC, Articles 702. The automatic transfer switches will have remote annunciator and will be sized to support the associated emergency loads. Provisions for a load bank to test generators.

The Diesel powered generator will be provided with a skid mounted double wall fuel tank, sized for 100% load for 72 hours, to support the facility. There will be provisions for a future secondary back-up generator.

The UPS will be arranged in an N+1 configuration, and allow for ½ hour operation at 100% load. The UPS will be sized to accommodate the PSAP, EOC, data center, and any other system deemed critical.

### Lighting

The majority of the new lighting will be accomplished with recessed or suspended direct/indirect 2'x 4' or 1'4 x 4' fluorescent fixtures with 32W, T8 lamps (or LEDs) as required to comply with the North Carolina State Building Code: Energy Conservation. The lighting levels will be designed per IES recommendations. All office fixtures will be provided with dual ballasts (except LEDs) of stepped power supplies for multi-level switching.

Occupancy sensors will be located in all spaces as required by ASHRAE 90.1, or the N.C. State Building Code: Energy Conservation Code.

Interior spaces and egress paths will be provided with integral battery packs for means of egress lighting. All fixtures will be commercial specification grade.

Specialty lighting including down lights and wall sconces will be provided where required.

Exit signs will LED type with brushed aluminum faces and integral battery packs.

Fixture spacing in typical spaces will be 6' to 8' on centers and corridor spacing will be 10' to 12' on center. In areas with drywall ceilings, surface mounted, steel sided modular fixtures or suspended direct/indirect will be used.

### Security

Raceways and outlet boxes will be provided for a CCTV system.

### **Fire Alarm**

A new fire alarm system with voice evacuation will be provided for the building. This will include manual pull stations, smoke detectors in designated areas, duct-mounted smoke detectors, speaker strobe units and any required interconnecting devices. The fire alarm system will be installed in conduit and the system classification will be Class A to provide for system redundancy.

The fire alarm will be specified with remote transmission and reporting capabilities.

### **Power**

Power distribution will include 480/277 V distribution panels, dry type transformers and 208/120V panel boards, and all associated feeders will be provided.

### **Data/Communication**

Two incoming communication feeders from two separate service providers will be provided if possible.

All data and telephone cabling, conduit, boxes, outlets and any other pathways shall be provided as a part of this project. All material, labor and testing associated with the installation of the data and telephone system will be included.

Attachment 7

**Mitchell County Central Communications**

**Vendor Equipment Quotes**

This attachment pertains to Question 27.

AREA SUMMARY

		NSF	Grossing Factor	GSF	Total
TOTALS					
1	DISPATCH / 9-1-1	1588	52 %	859	2447
2	IT SUPPORT / EQUIPMENT ROOMS	864	21 %	135	999
3	LOBBY / BUILDING ENTRY	64	20 %	13	77
Subtotal		2516	31 %	1006	3522
Building GSF @ 10%				352	
TOTAL BUILDING AREA		2516		1359	3875
OPINION OF PROBABLE COSTS		Low \$250/Sq Ft \$ 968,750	Mid \$300/Sq Ft \$ 1,162,500	High \$350/Sq Ft \$ 1,356,250	

		Space Code	Area/ Unit	Units	NSF	Grossing Factor	GSF	Total	Comments
1									
1.0	DISPATCH / 9-1-1	BUILDING ADJACENCIES							
1.1	Managerial Offices		120	1	120	30 %	36	156	Video Surveillance / Building Control Systems
1.2	Telecommunicators - Mitchell County		64	2	128	100 %	128	256	Sit-Stand Workstation
1.3	Training / Backup / Avery, Yancey, McDowell		64	4	256	100 %	256	512	Sit-Stand Workstation
1.4	Administrative Office		100	1	100	30 %	30	130	
1.5	Toilet Rooms		72	2	144	100 %	144	288	Separated from 9-1-1 Call Center for privacy
1.6	Kitchen/Break Room		200	1	200	30 %	60	260	Immediately adjacent to 9-1-1
1.7	Conference/Training Room/Multi-purpose Space		200	1	200	35 %	70	270	
1.8	Copy/Storage/Work Area		100	1	100	35 %	35	135	File Cabinets, Storage Cabinets, Counter Area
1.9	Showers/Lockers		150	2	300	30 %	90	390	_1_ Male/_1_ Female
1.1	Storage/Supplies		40	1	40	25 %	10	50	Shelves
Subtotal					1588	52 %	859	2447	

		Space Code	Area/ Unit	Units	NSF	Grossing Factor	GSF	Total	Comments
2									
2.0	IT SUPPORT—EQUIPMENT ROOMS	BUILDING ADJACENCIES							
2.1	911/IT/Radio Equipment Room		250	1	250	10 %	25	275	IT Infrastructure (Estimated Racks)
2.2	911/IT/Radio: Equipment Receiving		64	1	64	50 %	32	96	IT Infrastructure
2.3	Main Power Distribution / UPS		200	1	200	10 %	20	220	
2.4	Mechanical/Plumbing Room/Fire Protection		200	1	200	10 %	20	220	
2.5	Maintenance/Custodial Storage		150	1	150	25 %	38	188	
Subtotal					864	21 %	135	999	

3									
3.0	LOBBY / BUILDING ENTRY	BUILDING ADJACENCIES							
3.1	Secure Vestibule		64	1	64	20 %	13	77	
Subtotal					64	20 %	13	77	



**MARTIN COUNTY, NC****PROPOSED NEW EMERGENCY SERVICES FACILITY**

WILLIAMSTON, NC

**BUDGET COST ANALYSIS**

Total Area

3,875 s.f.

Project Phase: Programming

COST PHASE - CONSTRUCTION		cost/s.f. (using building construction cost only)	
BUILDING CONSTRUCTION COSTS			
1	Total Building Construction Cost Estimate	\$350.00	s.f. <b>\$1,356,250</b>
SITE CONSTRUCTION			
2	Total Site Construction Cost Estimate	\$45.00	s.f. \$174,375
3	GRAND TOTAL CONSTRUCTION ESTIMATE		<b>\$1,530,625</b>
4	Escalation @	5%	\$76,531
5		<b>SUBTOTAL</b>	<b>\$1,607,156</b>
6	Construction Contingency @	5%	\$80,358
7		\$435.36	
<b>GRAND TOTAL</b>			<b>\$1,687,514</b>
COST PHASE - DESIGN			
8	Programming and Needs Assessment		
9	A/E Design Fee	@ 9.0%	\$151,876
10	Expenses		\$10,000
11	Telecomm. Consultant Design & Project Management		
12	Geotechnical Investigation		\$7,500
13	Land Survey Services		\$5,000
14	Inspection / Testing Services		\$25,000
15	Land Development Approvals		
16	Total Design Services		<u>\$199,376</u>
COST PHASE - PERMITS			
17	State Approvals		\$10,000
18	Building Permit		\$10,000
19	Highway/Streets Permits		
20	Water Service / Sanitary Service		\$5,000
21	FAA Approval (tower)		
22	Other Approvals		<u>\$10,000</u>
23	Total Permitting		<u>\$35,000</u>
COST PHASE - TECHNOLOGY & FFE			
Communications			
24	Call Handling		In telecomm package
25	CAD		In telecomm package
26	Radio Console System		In telecomm package
27	Mapping		In telecomm package
28	Workstations		In telecomm package
29	MIS		In telecomm package
30	Logging Recorder		In telecomm package
	Subtotal		
Other Systems			
31	Audio Video Systems		In telecomm package
32	Off-Site Electrical/Telecomm Utility Connection		In telecomm package
33	Ancillary Computer Equipment for entire building		\$10,000
34	Other		
35	Subtotal		<u>\$10,000</u>
Other Costs			
36	Furniture (not including console furniture)		<u>\$20,000</u>
37	Subtotal		
38	Total Technology & FFE Costs		<u>\$30,000</u>
COST PHASE - PROJECT BUDGET			
39	Project Contingency	10%	Subtotal \$1,951,890
40	<b>TOTAL PROJECT BUDGET</b>		<u><b>\$2,147,079</b></u>



**June 2, 2016**

**Customer: Avery County**

**Quote: Geo-Diverse Vesta 9-1-1 Phone System**

QTY	DESCRIPTION	TOTAL
1	Primary PSAP Equipment including:	\$ 80,123.17
	1 Year of Software Support	
3	Vesta Call Taker Workstations	
3	22" Touchscreen Monitors	
3	24 Key keypads	
3	CDR License for ECaTS	
1	Backup PSAP Equipment including:	\$ 71,229.48
	1 Year of Software Support	
3	Vesta Call Taker Workstations	
3	22" Touchscreen Monitors	
3	24 Key keypads	
3	CDR License for ECaTS	
1	Recommended Spare Parts	\$ 4,144.29
1	Shipping	\$ 1,119.79
1	Turn Key Installation	\$ 45,000.00
1	Airbus Remote FE Service	\$ 6,000.00
3	Call Taker and Administrator Training	\$ 2,172.00
<b>Options:</b>		
1	24x7 Remote Monitoring Service	\$ 20,980.00
1	SMS Integration	\$ 13,947.50
<b>Total:</b>		<b>\$ 244,716.22</b>
(This is a turnkey quote for the E9-1-1 system including installation, training, warranty and software support for 1 year. The Vesta 9-1-1 system requires a NENA approved NetClock.)		



**SOUTHERN SOFTWARE, INC.**  
an employee-owned company

**Agency:** Yancey County 911, NC (send to Mission Critical Partners, Inc.)  
**Contact:** Tony Wheeler  
**Date:** 5/26/2016

## HARDWARE AND SOFTWARE

Qty

<b>SERVER</b>	<b>PowerEdge R320, Intel® Xeon® E-24XX v2 Processors</b>	2	\$38,458.00
<b>Operating System</b>	Windows Server® 2012R2,Standard Ed,Factory Inst,No MED,2SKT,2VM,NO CAL		
<b>Client Access Licenses</b>	(3) 5-pack of Windows® Server 2012 User CALs (Standard or Datacenter)		
<b>Client Access Licenses</b>	Microsoft®SQL Server™2014 Standard,5 USER CALs Only, No Media		
<b>Database Software</b>	Microsoft®SQL Server™2014 STD, 10USER CALs,NFI,w 2012 DGRD Media		
<b>Chassis Configuration</b>	Chassis with up to 4, 3.5" Cabled Hard Drives and Embedded SATA		
<b>Processor</b>	Intel® Xeon® E3-1270 v5 3.6GHz, 8M cache, 4C/8T, turbo (80W)		
<b>PCIe Riser</b>	PCIe Riser,1FH,1LP w/Fan,R330		
<b>Memory Configuration Type</b>	Performance Optimized		
<b>Memory Capacity</b>	(4) 16GB UDIMM, 2133MT/s, ECC		
<b>RAID Configuration</b>	RAID 5, S130, Cabled Chassis		
<b>RAID Controller</b>	S130, Software RAID (for Microsoft OS Only)		
<b>Hard Drives</b>	(3) 1TB 7.2K RPM SATA 6Gbps 3.5in Cabled Hard Drive		
<b>Additional Network Cards</b>	On-Board LOM 1GBE Dual Port (BCM5720 GbE LOM)		
<b>Embedded Systems Management</b>	iDRAC8 Express, integrated Dell Remote Access Controller, Express		
<b>Internal Optical Drive</b>	DVD ROM, SATA, Internal		
<b>Rack Rails</b>	ReadyRails™ Sliding Rails Without Cable Management Arm		
<b>Power Supply</b>	Dual, Hot-plug, Redundant Power Supply, 350W		
<b>Power Cords</b>	(2) NEMA 5-15P to C13 Wall Plug, 125 Volt, 15 AMP, 10 Feet (3m), Power Cord, North America		
<b>OS Media Kits</b>	Windows Server® 2012R2,STD Ed,Media Kit w/Factory Inst STD DGRD Images		
<b>Hardware Support Services</b>	3 Years ProSupport Plus and Mission Critical 4HR On-Site Service		
<b>Server Accessories</b>	Keyboard and Optical Mouse, USB, Black, English		
<b>KVM</b>	TrippLite NetDirector Console KVM Switch with 17-inch LCD Screen/Keyboard/Touchpad		
<b>UPS</b>	19-inch SMART 1500RML2Ua Rack-Mountable UPS System		
<b>Rack</b>	APC NetShelter SV - Rack - black - 42U - 19-inch		
<b>Antivirus</b>	Symantec Endpoint for 11 Users		
<b>Backup Software</b>	Nova Backup Business Essentials V. 16		
<b>Hard Drives</b>	Qty 3 (3) - 500 GB/TB Hard Drive		
<b>Removable Storage</b>	PowerVault RD1000		
<b>Digiport SP1</b>	Digiport SP1		
<b>Switch</b>	24 Port Rack Mounted Switch		
<b>Wireless Messaging for CAD (with 5 additional Paging Connectors)</b>		1	\$1,000.00
<i>For Backup Center</i>			
<b>CAD with MDS for EOC</b>		4	FREE
<b>* Neverfail for Physical Server (1 Pair) (Note: first year support included; 2nd year payable to Neverfail - Approx. \$1,000)</b>		1	\$4,995.00
<b>Installation (Southern Software Technician onsite for Hardware and Neverfail Installation; Onsite installation by Neverfail)</b>		1	\$7,750.00
<b>Hardware Support</b>	ANNUAL HARDWARE SUPPORT - 24/7		\$4,850.00

## TOTAL INVESTMENT (STATE TAX AND SHIPPING NOT INCLUDED)

**\$57,053.00**

50% due upon signing proposal; 50% due upon completion of installation.

**CUSTOMER'S SIGNATURE** \_\_\_\_\_ **DATE** \_\_\_\_\_

Please sign this document and return it to us by fax or mail. When the document is signed and returned to Southern Software, we will begin processing your order.

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***Contact information for Public Safety Representative:***

**Mike Moody  
Southern Software  
150 Perry Drive  
Southern Pines, NC 28387**

**Business: 800.842.8190  
Mobile: 910.603.3481  
Fax: 910.695.0251  
E-Mail [mmoody@southernsoftware.com](mailto:mmoody@southernsoftware.com)**



**SOUTHERN SOFTWARE, INC.**  
an employee-owned company

**Agency:** McDowell County 911, NC (send to Mission Critical Partners, Inc.)  
**Contact:** Tony Wheeler  
**Date:** 5/26/2016

HARDWARE AND SOFTWARE		Qty	
<b>SERVER</b>	<b>PowerEdge R320, Intel® Xeon® E-24XX v2 Processors</b>	2	\$38,458.00
<b>Operating System</b>	Windows Server® 2012R2, Standard Ed, Factory Inst, No MED, 2SKT, 2VM, NO CAL		
<b>Client Access Licenses</b>	(3) 5-pack of Windows® Server 2012 User CALs (Standard or Datacenter)		
<b>Client Access Licenses</b>	Microsoft® SQL Server™ 2014 Standard, 5 USER CALs Only, No Media		
<b>Database Software</b>	Microsoft® SQL Server™ 2014 STD, 10 USER CALs, NFI, w 2012 DGRD Media		
<b>Chassis Configuration</b>	Chassis with up to 4, 3.5" Cabled Hard Drives and Embedded SATA		
<b>Processor</b>	Intel® Xeon® E3-1270 v5 3.6GHz, 8M cache, 4C/8T, turbo (80W)		
<b>PCIe Riser</b>	PCIe Riser, 1FH, 1LP w/Fan, R330		
<b>Memory Configuration Type</b>	Performance Optimized		
<b>Memory Capacity</b>	(4) 16GB UDIMM, 2133MT/s, ECC		
<b>RAID Configuration</b>	RAID 5, S130, Cabled Chassis		
<b>RAID Controller</b>	S130, Software RAID (for Microsoft OS Only)		
<b>Hard Drives</b>	(3) 1TB 7.2K RPM SATA 6Gbps 3.5in Cabled Hard Drive		
<b>Additional Network Cards</b>	On-Board LOM 1GBE Dual Port (BCM5720 GbE LOM)		
<b>Embedded Systems Management</b>	iDRAC8 Express, integrated Dell Remote Access Controller, Express		
<b>Internal Optical Drive</b>	DVD ROM, SATA, Internal		
<b>Rack Rails</b>	ReadyRails™ Sliding Rails Without Cable Management Arm		
<b>Power Supply</b>	Dual, Hot-plug, Redundant Power Supply, 350W		
<b>Power Cords</b>	(2) NEMA 5-15P to C13 Wall Plug, 125 Volt, 15 AMP, 10 Feet (3m), Power Cord, North America		
<b>OS Media Kits</b>	Windows Server® 2012R2, STD Ed, Media Kit w/Factory Inst STD DGRD Images		
<b>Hardware Support Services</b>	3 Years ProSupport Plus and Mission Critical 4HR On-Site Service		
<b>Server Accessories</b>	Keyboard and Optical Mouse, USB, Black, English		
<b>KVM</b>	TrippLite NetDirector Console KVM Switch with 17-inch LCD Screen/Keyboard/Touchpad		
<b>UPS</b>	19-inch SMART 1500RMXL2Ua Rack-Mountable UPS System		
<b>Rack</b>	APC NetShelter SV - Rack - black - 42U - 19-inch		
<b>Antivirus</b>	Symantec Endpoint for 11 Users		
<b>Backup Software</b>	Nova Backup Business Essentials V. 16		
<b>Hard Drives</b>	Qty 3 (3) - 500 GB/TB Hard Drive		
<b>Removable Storage</b>	PowerVault RD1000		
<b>Digiport SP1</b>	Digiport SP1		
<b>Switch</b>	24 Port Rack Mounted Switch		
<b>Wireless Messaging for CAD (with 5 additional Paging Connectors)</b>		1	\$1,000.00
<i>For Backup Center</i>			
<b>CAD with MDS for EOC</b>		5	FREE
<b>* Neverfail for Physical Server (1 Pair) (Note: first year support included; 2nd year payable to Neverfail - Approx. \$1,000)</b>		1	\$4,995.00
<b>Installation (Southern Software Technician onsite for Hardware and Neverfail Installation; Onsite installation by Neverfail)</b>		1	\$7,750.00
<b>Hardware Support</b>	ANNUAL HARDWARE SUPPORT - 24/7		\$4,850.00

**TOTAL INVESTMENT** (STATE TAX AND SHIPPING NOT INCLUDED) **\$57,053.00**

50% due upon signing proposal; 50% due upon completion of installation.

**CUSTOMER'S SIGNATURE** \_\_\_\_\_ **DATE** \_\_\_\_\_

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***Contact information for Public Safety Representative:***

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Southern Software  
150 Perry Drive  
Southern Pines, NC 28387**

**Business: 800.842.8190  
Mobile: 910.603.3481  
Fax: 910.695.0251  
E-Mail [mmoody@southernsoftware.com](mailto:mmoody@southernsoftware.com)**



**SOUTHERN SOFTWARE, INC.**  
an employee-owned company

**Agency:** Avery County 911, NC (send to Mission Critical Partners, Inc.)  
**Contact:** Tony Wheeler  
**Date:** 5/26/2016

## HARDWARE AND SOFTWARE

Qty

<b>SERVER</b>	<b>PowerEdge R320, Intel® Xeon® E-24XX v2 Processors</b>	2	\$35,110.00
<b>Operating System</b>	Windows Server® 2012R2, Standard Ed, Factory Inst, No MED, 2SKT, 2VM, NO CAL		
<b>Client Access Licenses</b>	(2) 5-pack of Windows® Server 2012 User CALs (Standard or Datacenter)		
<b>Client Access Licenses</b>	Microsoft® SQL Server™ 2014 Standard, 5 USER CALs Only, No Media		
<b>Database Software</b>	Microsoft® SQL Server™ 2014 STD, 5USER CALs, NFI, w 2012 DGRD Media		
<b>Chassis Configuration</b>	Chassis with up to 4, 3.5" Cabled Hard Drives and Embedded SATA		
<b>Processor</b>	Intel® Xeon® E3-1270 v5 3.6GHz, 8M cache, 4C/8T, turbo (80W)		
<b>PCIe Riser</b>	PCIe Riser, 1FH, 1LP w/Fan, R330		
<b>Memory Configuration Type</b>	Performance Optimized		
<b>Memory Capacity</b>	(4) 16GB UDIMM, 2133MT/s, ECC		
<b>RAID Configuration</b>	RAID 5, S130, Cabled Chassis		
<b>RAID Controller</b>	S130, Software RAID (for Microsoft OS Only)		
<b>Hard Drives</b>	(3) 1TB 7.2K RPM SATA 6Gbps 3.5in Cabled Hard Drive		
<b>Additional Network Cards</b>	On-Board LOM 1GBE Dual Port (BCM5720 GbE LOM)		
<b>Embedded Systems Management</b>	iDRAC8 Express, integrated Dell Remote Access Controller, Express		
<b>Internal Optical Drive</b>	DVD ROM, SATA, Internal		
<b>Rack Rails</b>	ReadyRails™ Sliding Rails Without Cable Management Arm		
<b>Power Supply</b>	Dual, Hot-plug, Redundant Power Supply, 350W		
<b>Power Cords</b>	(2) NEMA 5-15P to C13 Wall Plug, 125 Volt, 15 AMP, 10 Feet (3m), Power Cord, North America		
<b>OS Media Kits</b>	Windows Server® 2012R2, STD Ed, Media Kit w/Factory Inst STD DGRD Images		
<b>Hardware Support Services</b>	3 Years ProSupport Plus and Mission Critical 4HR On-Site Service		
<b>Server Accessories</b>	Keyboard and Optical Mouse, USB, Black, English		
<b>KVM</b>	TrippLite NetDirector Console KVM Switch with 17-inch LCD Screen/Keyboard/Touchpad		
<b>UPS</b>	19-inch SMART 1500RML2Ua Rack-Mountable UPS System		
<b>Rack</b>	APC NetShelter SV - Rack - black - 42U - 19-inch		
<b>Antivirus</b>	Symantec Endpoint for 11 Users		
<b>Backup Software</b>	Nova Backup Business Essentials V. 16		
<b>Hard Drives</b>	Qty 3 (3) - 500 GB/TB Hard Drive		
<b>Removable Storage</b>	PowerVault RD1000		
<b>Digiport SP1</b>	Digiport SP1		
<b>Switch</b>	24 Port Rack Mounted Switch		
<b>Paging / Wireless Messaging - Upgrade to Version 7 from Version 5</b>		1	\$250.00
<b>Wireless Messaging for CAD (with 5 additional Paging Connectors)</b>		1	\$1,000.00
<i>For Backup Center</i>			
<b>CAD with MDS for EOC</b>		3	FREE
<b>* Neverfail for Physical Server (1 Pair) (Note: first year support included; 2nd year payable to Neverfail - Approx. \$1,000)</b>		1	\$4,995.00
<b>Installation (Southern Software Technician onsite for Hardware and Neverfail)</b>		1	\$7,750.00
<b>Hardware Support</b>	ANNUAL HARDWARE SUPPORT - 24/7	1	\$4,850.00

**TOTAL INVESTMENT** (STATE TAX AND SHIPPING NOT INCLUDED)

**\$53,955.00**

50% due upon signing proposal; 50% due upon completion of installation.

**CUSTOMER'S SIGNATURE** \_\_\_\_\_ **DATE** \_\_\_\_\_

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E-Mail [mmoody@southernsoftware.com](mailto:mmoody@southernsoftware.com)**





**SOUTHERN SOFTWARE, INC.**  
an employee-owned company

**Agency:** Mitchell County 911, NC (send to Mission Critical Partners, Inc.)  
**Contact:** Tony Wheeler  
**Date:** 5/24/2016

## HARDWARE AND SOFTWARE

Qty

<b>SERVER</b>	<b>PowerEdge R320, Intel® Xeon® E-24XX v2 Processors</b>	<b>1</b>	<b>\$17,555.00</b>
<b>Operating System</b>	Windows Server® 2012R2, Standard Ed, Factory Inst, No MED, 2SKT, 2VM, NO CAL		
<b>Client Access Licenses</b>	(2) 5-pack of Windows® Server 2012 User CALs (Standard or Datacenter)		
<b>Client Access Licenses</b>	Microsoft® SQL Server™ 2014 Standard, 5 USER CALs Only, No Media		
<b>Database Software</b>	Microsoft® SQL Server™ 2014 STD, 5USER CALs, NFI, w 2012 DGRD Media		
<b>Chassis Configuration</b>	Chassis with up to 4, 3.5" Cabled Hard Drives and Embedded SATA		
<b>Processor</b>	Intel® Xeon® E3-1270 v5 3.6GHz, 8M cache, 4C/8T, turbo (80W)		
<b>PCIe Riser</b>	PCIe Riser, 1FH, 1LP w/Fan, R330		
<b>Memory Configuration Type</b>	Performance Optimized		
<b>Memory Capacity</b>	(4) 16GB UDIMM, 2133MT/s, ECC		
<b>RAID Configuration</b>	RAID 5, S130, Cabled Chassis		
<b>RAID Controller</b>	S130, Software RAID (for Microsoft OS Only)		
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<b>Hard Drives</b>	Qty 3 (3) - 500 GB/TB Hard Drive		
<b>Removable Storage</b>	PowerVault RD1000		
<b>Digiport SP1</b>	Digiport SP1		
<b>Switch</b>	24 Port Rack Mounted Switch		
<b>Wireless Messaging for CAD (with 5 additional Paging Connectors)</b>		<b>1</b>	<b>\$1,000.00</b>
<i>For Backup Center</i>			
<b>* Neverfail for Physical Server (1 Pair) (Note: first year support included; 2nd year payable to Neverfail - Approx. \$1,000)</b>		<b>1</b>	<b>\$4,995.00</b>
<b>Installation (Southern Software Technician onsite for Hardware and Neverfail)</b>		<b>1</b>	<b>\$6,350.00</b>

## TOTAL INVESTMENT (STATE TAX AND SHIPPING NOT INCLUDED)

**\$29,900.00**

50% due upon signing proposal; 50% due upon completion of installation.

CUSTOMER'S SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

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E-Mail [mmoody@southernsoftware.com](mailto:mmoody@southernsoftware.com)**

# North Carolina 911 Board Grant Application

## General Information

**Project Title**

Back Up 911 Center & Locution Prime Alert System

**Grant Fiscal Year - 2017**

**Project Director**

D. Bryan Phillips

**Project Contact**

D. Bryan Phillips

**Project Contact Title**

Director of Public Safety

**Address**

P.O. Box 905

302 S. McNeill Street

Carthge, NC 28327

**Phone**

910-947-6317 x 4350

**Email**

bphillips@moorecountync.gov

*Three types of grants are available, as described below. In the box following these descriptions, please select the Grant Type which most appropriately fits your request.*

- **Consolidation** - A consolidation project involves combining one or more PSAPs with a primary PSAP with an integrated management structure that serves the same populations and jurisdictions previously served by offering grant funding for both PSAP costs authorized under G.S. 143B-1406(e) and costs not authorized under G.S. 143B-1406(e) to include construction costs.
- **Individual PSAP Enhancement/Replacement** - the relocation costs of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.
- **Regional Initiative Enhancement/Replacement** - Regional initiatives are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such initiatives comprise projects involving two or more primary PSAPs or a primary PSAP with approved secondary PSAPs. Costs of relocation of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.

**Grant Type**    *Individual PSAP Enhancement/Replacement*

**PSAP Name**    *Moore County Emergency Services*

1.    ***Has the Revenue/Expenditure Report for FY15 been completed and approved by the NC 911 Board Fiscal staff for the applicant PSAP?***

YES

2.    ***Has the applicant PSAP submitted a plan and secured the means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP (backup plan)?***

YES

3.    ***If the answer to #2 above is yes, does the PSAP have the means to implement the plan before 7/1/16?***

NO

4.    ***If plan implementation will not occur before July 1, 2016, has an extension been requested?***

YES

---

# Project Description

***Required for all grant types, this should be a thorough, concise, and complete description of the proposed project.***

## **5. Please outline project goals and objectives.**

1. Locution System, INC. Dispatch Alerting System
2. Back Up Center relocation to County Owned Facility

## **6. Please provide an implementation strategy and work plan, including a timeline.**

### Project #1

Completed Locution System, INC Questionnaire to receive required equipment, installation  
Submit RFP July-August 2016,  
Award Bid August 2016 and execute contract September 2016  
Begin Installation October 2016  
Completion and Acceptance Testing June-July 2017

### Project # 2

Receive 911 Board approval of plan  
Secure additional funding for non-eligible (facility modifications)  
Submit RFP for : The center will operate with 6 fully operational dispatch positions (expandable to 10) utilizing a duplication of the same equipment located at the primary center. Each position will be equipped with Zetron Max Call Taking, Max Dispatch, Southern Software CAD, Southern Software MDS Mapping, DCI and Paging systems. The backup center will continue to utilize 8 trunk lines (5 landline and 3 wireless) as well as 5 administrative lines.  
Award Bid August 2016 and execute contract September 2016  
Begin Installation October 2016  
Completion and Acceptance Testing June-July 2017

## **7. Please identify the interface or compatibility between existing equipment and/or software and that which you intend to purchase.**

Project #1 Locution System Software for enhancement of dispatch function to assist in meeting the NFPA 1221 and NC Response Rating System of 95% of structure fire /Alarms dispatched in 64 seconds and 99% of structure fire/alarms dispatched within 106 seconds.

EMS has similar requirements for the dispatch.

Working with local law enforcement to see if they have any time requirement 911 centers must meet for them to receive accreditation.

Project #2: The center will operate with 6 fully operational dispatch positions (expandable to 10) utilizing a duplication of the same equipment located at the primary center. Each position will be equipped with Zetron Max Call Taking, Max Dispatch, Southern Software CAD, Southern Software MDS Mapping, DCI and Paging systems. The backup center will continue to utilize 8 trunk lines (5 landline and 3 wireless) as well as 5 administrative lines

### **Critical Systems:**

***Radios – 6 fully redundant IP based Zetron MAX Dispatch System workstations that interface to thirty-five (35) VIPER control stations and two (2) analog conventional paging channels, with high-reliability licensed microwave connectivity between the back up 911 center and the Carthage tower site. There are sixteen (16) control stations at the Public Safety Building and nineteen (19) at the Carthage tower site. The system can be expanded to 10 positions with the use of laptops.***

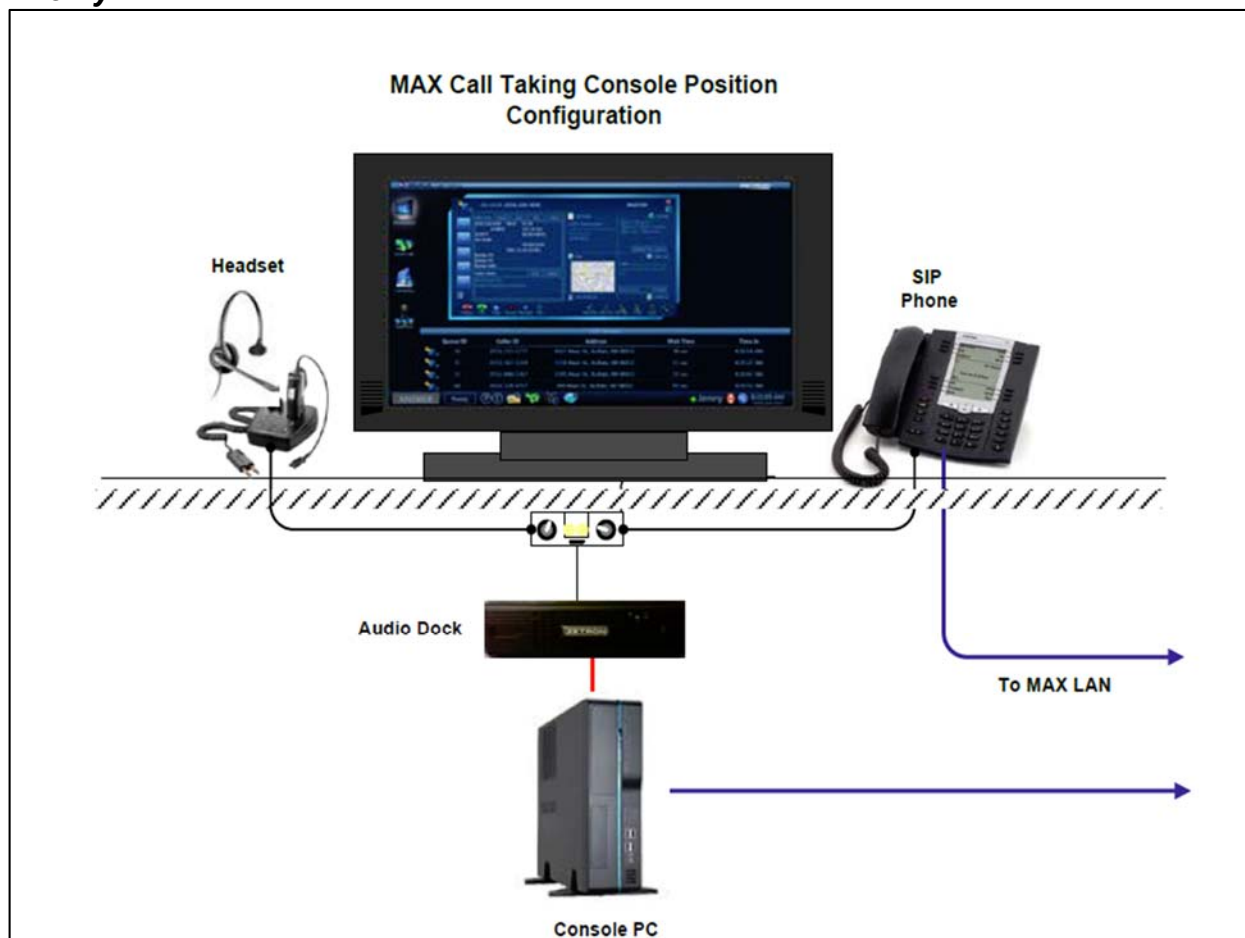
***The system's intelligent user interface (UI) selectively displays important information so operators can focus on the incident at hand without the distraction of unnecessary information.***

- Unique one-click operations and intuitive UI give operators immediate access to information and controls. This improves response times and reduces operator fatigue and errors.***
  - MAX Dispatch supports patching and conferencing among multiple resources.***
  - Support for off-site access allows MAX Dispatch to be maintained and operated remotely. This facilitates appropriate staffing as well as the timely diagnosis and resolution of system issues.***
  - The system's analog and digital radio gateways interface to a wide range of conventional and trunked protocols, both manufacturer proprietary and open standard, all of which can reside on a single system.***
  - The system supports industry-standard SIP protocol for interfacing to telephony systems.***
  - The dual end-to-end network option allows fully redundant IP networks. This ensures that a single failure in the network infrastructure has no effect on MAX Dispatch operation for all endpoints.***
  - MAX Dispatch is scalable from a single LAN configuration to a multi-node, geographically diverse WAN configuration.***
  - The use of standards-based IP protocols ensures the system's compatibility with commercial, off-the-shelf (COTS) IP network devices.***
  - IT-EZ continuously monitors network performance, keeping users and technicians apprised of network conditions. This facilitates network maintenance and troubleshooting.***
- Telephone, ANI/ALI – 6 fully redundant IP based Zetron MAX call taking stations. The system has windows based workstations. The system is designed to allow the PSAP to expand by only adding workstation positions and software. These hardwired positions could be located at any location with connection to the MAX system network and also they can be used in conjunction with laptops that are preloaded and configured to work with the Zetron MAX CT system. This configuration allows the PSAP to have a backup dispatch center should a catastrophic emergency occur. The system can be expanded to 10 positions with the use of laptops.***

***The design includes a feature called the Automatic-Call Recovery service. In the event there is an outage or technician error, the Automatic-Call Recovery service helps ensure there is no impact on ongoing or newly arriving calls. For example if one of the Call***

***Servers was mistakenly taken out of service, any calls active on the server would be recovered and reassigned to another Call Server in the system. Typically this happens fast enough that it is even undetectable by the parties in the affected call(s). The switches are connected so that the loss of a switch does not impact system capacity. The call servers are powered using a 1+N, hot-swap power supply sub-system.***

***Screens can be customized on a per role or per user so operators can be given freedom within the Application to move information modules around the workspace in real-time, resize objects as needed, add or remove functions dynamically from their workspace(s), and have dynamic drag and drop capabilities' for adding callers to a conference or information to a group in order to create an incident on The fly.***



***Paging – Two-tone voice paging system designed specifically to meet Moore County’s needs. The system is customizable and configurable to provide user flexibility in operation, with an enhanced feature set and future expansion. The two-tone paging solution operates independently from the existing radio dispatch consoles, providing a redundant capability to the Communications Center. It is an IP-based solution consisting of client software on an existing operator position PC that interfaces with a customized database residing on redundant custom configured servers located in the “backroom.” These servers are built with industrial grade hardware and other custom components. As part of the resiliency of the system, the client software maintains a continual testing***

***protocol with the servers.***

***Some of the many important features provided are:***

- ***Large display for up to 81 paging buttons per screen***
- ***Page stack activity display***
- ***Activity log in both the client and server***
- ***Multiple screens with stack paging configuration capability***
- ***Highly customizable screen detail including button labels, colors, location on screen***
- ***Customizable tone (0.1Hz increments) and timing (1ms increments) parameters for accurate dispatch alerting***
- ***Client and server software runs on Windows 7 Pro***
- ***Remote system access for monitoring, reconfiguration, reprogramming, and maintenance***
- ***Analog audio output from the servers for integration/connection to existing logging recorder***

Microwave – Connectivity between the back up 911 center and the main tower site, Carthage tower, will have 2 (two) options, a licensed 50Mbps through Ethernet backhaul microwave connecting to either the Carthage tower or the Southern Pines tower depending on line of site. It would consist of 18 GHz links in a 1+1 hot-standby configuration. The second option would be a fiber line from the back up 911 center to the Carthage tower or the Southern Pines tower with an end to end mux



## Statement of Need

***Required for all grant types, this statement should reference the relationship of the grant project to NCGS §143b-1407(b) and the current funding priorities established by the Grant Policy and Procedures and include evidence of any financial need.***

### **8. Please indicate how your PSAP or group of PSAPs meets the statutory criterion of serving a rural or high cost area.**

2015 census data estimates the Moore County population to be 94,352, with a growing 23.8% of those being persons over 65 years of age and just under 37,000 households. The NC general Assembly defines a rural county as one who has a density of less than 250 people per square mile; Moore County has an estimated population of 126.5 people per square mile which is almost 50% below the standard designation criteria

### **9. Please identify funding priorities, their impact on operational services, and consequences of not receiving funding.**

Funding Priority # 1 is the back-up 911 Center, we do not currently have a brick and mortar style back-up facility. We have a plan for retrofitting a current county owned facility that meets the general requirements, however implementation without a funding stream will be unlikely within the counties budget structure. The consequence of not receiving 911 Board funding will be that we continue to use our mobile command center with two console positions as our back-up plan and not be in compliance with the suggested rules and regulations as established by the 911 Board.

Funding Priority # 2 is the Locution System Software. We have established written goals and objectives for receiving and dispatching emergency calls based upon NFPA 1221 that we are not currently meeting. We have made considerable improvement with policy changes and staff education, however we are still not in compliance with the standards. Implementation of Locution gives us the best opportunity to achieve our goals and it is unlikely that it will occur without grant funding from the 911 Board. The consequence of not receiving 911 Board funding will be that we continue to not receive and dispatch emergency calls within the suggested time standards as publish in NFPA 1221.

### **10. Please provide a copy of your PSAP's long-term or strategic technology plan and identify how the project fits within it.**

We are currently in the process of creating a Strategic Technology Plan and Continuity of Operations Plan for the Moore County PSAP. The back-up center is the highest priority and largest component of the long term plan which leave a lot of unanswered questions at this time. Currently we have internal policies in place that suggest when individual or groups of components should be replaced based on a time and use scale.

**11. Please identify the likelihood of completing the project utilizing your 911 fund balance and the percentage of grant funding being requested in relation to total project costs.**

70 % Fund Balance and 30% Grant funding

# ***Regional Initiative Enhancement/Replacement Project***

***Required for all Regional Initiative Enhancement/Replacement project types. Regional initiative enhancement/replacement projects are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such projects may involve two or more primary PSAPs.***

**12. What is the relationship of participating PSAPs to the initiative? Provide MOUs between PSAPs identifying each participant PSAP's responsibilities to the project.**

Click or tap here to enter text.

**13. Identify intended collaborative efforts between participating PSAPs.**

Click or tap here to enter text.

**14. Identify how resource sharing will take place.**

Click or tap here to enter text.

**15. Indicate how the initiative impacts the operational or strategic plans of the participating agencies.**

Click or tap here to enter text.

***NOTE: The following section on “Consolidation Project Plan” is ONLY required if your type of grant is a “Consolidation”. If your project IS NOT a Consolidation, proceed to question # 23 to complete the grant application.***

**16. Indicate how a consolidation would take place and improve service**

Click or tap here to enter text.

**17. Indicate how the consolidated PSAP should be organized and staffed**

Click or tap here to enter text.

**18. Indicate what services the consolidated PSAP should perform**

Click or tap here to enter text.

**19. Indicate how consolidated PSAP policies should be made and changed**

Click or tap here to enter text.

**20. Indicate how the consolidated PSAP should be funded exclusive of grant funding**

Click or tap here to enter text.

**21. Indicate what changes or improvements should be made to inter-communications among the local governments participating in the consolidation in order to better support operations.**

Click or tap here to enter text.

**22. Discuss sustainability of the consolidation project during the proposed term of the project, and for the foreseeable future.**

Click or tap here to enter text.



## FINANCIAL DATA

### **23. Current 911 Fund Balance**

\$978,496 audited as of June 30 20156

### **24. Amount Requested**

Project #1 \$200,000

Project #2 598,361 Non-Eligible Cost and \$374,446 Eligible

### **25. Total Project Cost**

Total cost of both project #1 and #2 = \$1,172,807 between eligible and non-eligible

## Budget and Budget Narrative

***A budget and budget narrative must be supplied for all types of projects, as well as a copy of the applicant agency's approved FY 2016 PSAP budget.***

### **26. List planned expenditures**

Locution System Software estimating \$200,000 initial cost pending quote from vendor.

Backup PSAP Financial Documentation								
Non-Eligible Costs		Surcharge Eligible Expenses						
		One-Time Costs		Recurring Costs Annual		Recurring Costs Monthly		COMMENTS
Product/Service	Cost	Product/Service	Cost	Product/Service	Cost	Product/Service	Cost	
1 microwave link	\$43,500	6 Chairs	\$2,400	6 Zetron call taking positions maintenance (after the second year)	\$1,310	8 CAMA trunks	\$692	
6 radio dispatch consoles	\$204,100	12 monitors & 6 CPU's for CAD	\$24,500			5 administrative lines	\$280	
Installation	\$24,475	1 Eventide Recorder	\$35,000				?	Unknown at this Time
Cost Share estimate of County Fiber	\$324,976	1 GPS Clock	\$12,000					
6 radio dispatch consoles maintenance (after the second year)	\$1,310	1 Paging System	\$79,800					
Monthly Utilities cost sharing		6 Russ Bassett consoles	\$32,400					
		6 Zetron call taking positions	\$187,800					
		5 administrative line installation	\$210					
		8 CAMA trunk installation	\$336					
	<b>\$598,361</b>		<b>\$374,446</b>		<b>\$1,310</b>		<b>\$972</b>	
All cost are based on preliminary estimates received from vendors.								

### **27. Provide a budget narrative that briefly explains the reason for each requested budget item.**

Project #1 Locution System Software for enhancement of dispatch function to assist in meeting the NFPA 1221 and NC Response Rating System of 95% of structure fire /Alarms dispatched in 64 seconds and 99% of structure fire/alarms dispatched within 106 seconds.

EMS has similar requirements for the dispatch.

Working with local law enforcement to see if they have any time requirement 911 centers must meet for them to receive accreditation.

Project #2: The center will operate with 6 fully operational dispatch positions (expandable to 10) utilizing a duplication of the same equipment located at the primary center. Each position will be equipped with Zetron Max Call Taking, Max Dispatch, Southern Software CAD, Southern Software MDS Mapping, DCI and Paging systems. The backup center will continue to utilize 8 trunk lines (5 landline and 3 wireless) as well as 5 administrative lines

**28. State how you will follow applicable procurement law, rules, and policies.**

Moore County Public Safety will follow all rules, regulations, and guidelines per the Moore County Finance Department as approved by the Moore County Board of Commissioners.

**29. If the project will have ongoing expenses, such as monthly recurring charges, describe plans and specific sources for future/long-term funding and demonstrate how the project will be sustained in the future without additional 911 Grant Program funding.**

\$3000.00

## Evaluation

***All applications must include evaluation information. The final report shall include an evaluation demonstrating that the equipment or services funded by the grant have been purchased, installed/implemented, and are performing as expected.***

**30. Explain how your evaluation will measure the achievement of the goals and objectives identified in the Project Description with a timeline for meeting short, intermediate, and long term goals.**

Once the grant is approved, specifications will be written and published for bid. Once awarded, Moore County and the selected vendors will develop a timeline for implementation that includes goals (short, intermediate, long term) and objectives to include milestones in order to measure achievement.

**31. Describe how evaluations will be conducted, including performance parameters which must be met in order to meet acceptance criteria.**

Project #1 – Measurement of 1221 Standards 95% in 64 seconds, 99% in 106 seconds. Daily and monthly reports will be monitored for compliance

***Project #2 Dispatch out of backup 911 center on a quarterly***

**32. Identify how data will be collected and presented**

Project #1 – Measurement of 1221 Standards 95% in 64 seconds, 99% in 106 seconds. Daily and monthly reports will be monitored for compliance

Project #2 Dispatch out of backup 911 center on a quarterly



# North Carolina 911 Board Grant Application

## General Information

**Project Title**

Pasquotank-Camden Elizabeth City Backup

**Grant Fiscal Year - 2017**

**Project Director**

Ronnie Barefoot

**Project Contact**

Ronnie Barefoot

**Project Contact Title**

Technical Operations Manager

**Address**

200 E. Colonial Ave.

Elizabeth City, NC 27909

**Phone**

252-338-3772

**Email**

barefootr@co.pasquotank.nc.us

*Three types of grants are available, as described below. In the box following these descriptions, please select the Grant Type which most appropriately fits your request.*

- **Consolidation** - A consolidation project involves combining one or more PSAPs with a primary PSAP with an integrated management structure that serves the same populations and jurisdictions previously served by offering grant funding for both PSAP costs authorized under G.S. 143B-1406(e) and costs not authorized under G.S. 143B-1406(e) to include construction costs.
- **Individual PSAP Enhancement/Replacement** - the relocation costs of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.
- **Regional Initiative Enhancement/Replacement** - Regional initiatives are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such initiatives comprise projects involving two or more primary PSAPs or a primary PSAP with approved secondary PSAPs. Costs of relocation of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.

**Grant Type**    *Individual PSAP Enhancement/Replacement*

**PSAP Name**    *Pasquotank/Camden E9-1-1*

- 1.    *Has the Revenue/Expenditure Report for FY15 been completed and approved by the NC 911 Board Fiscal staff for the applicant PSAP?***

YES

- 2.    *Has the applicant PSAP submitted a plan and secured the means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP (backup plan)?***

NO

- 3.    *If the answer to #2 above is yes, does the PSAP have the means to implement the plan before 7/1/16?***

*Not Applicable, No Plan Submitted*

- 4.    *If plan implementation will not occur before July 1, 2016, has an extension been requested?***

NO

---

# **Project Description**

***Required for all grant types, this should be a thorough, concise, and complete description of the proposed project.***

## **5. Please outline project goals and objectives.**

The goal of the Pasquotank-Camden Elizabeth City Central Communications Center is to provide consistent uninterrupted service to the citizens and visitors of Pasquotank County, Camden County and of Elizabeth City. Our Objective is to establish a backup center that would provide these essential services and develop a standard operating guideline addressing the use of the backup center on a monthly and no less than a quarterly basis. Current Background. Currently the Pasquotank-Camden Elizabeth City Central Communications Center operates out of the Public Safety Building located at 200 E. Colonial Ave., Elizabeth City. Provided Services include the answer of emergency and non-emergency calls for service. Dispatched agencies within our jurisdiction include but not limited to the following, Elizabeth City Police and Fire Departments, Pasquotank-Camden Emergency Medical Services, Pasquotank and Camden County Sheriffs Offices, Elizabeth City State University Police (for 911 calls received on the campus), animal control for both counties, NC Highway Patrol and all volunteer fire departments within the two counties. Also dispatched from this location is the Inter-County VFD located in Perquimans County, who services a portion of the southwestern side of Pasquotank County. Operations under our current backup plan will not allow Pasquotank-Camden Elizabeth City Central Communications to fluidly maintain and sustain county-wide emergency communications. Our current backup plan is to use a refurbished Motorcoach which is limited one call taking position, does not have paging capabilities, nor any capabilities, CAD, EMD/EFD other than the use of cardsets and no DCI capabilities.

## **6. Please provide an implementation strategy and work plan, including a timeline.**

If the project is funded Elizabeth City State University has agreed to house the backup 911 in Griffin Hall on the main campus of the university. The campus is currently undergoing renovations and this particular building was renovated with the center in mind. Two rooms have been set aside for the possibility of the Pasquotank-Camden Elizabeth City 911 center moving forward with its backup plan. The two rooms being set aside, one for communications staff and dispatch equipment and one for all servers and demark. These two rooms are the only rooms within the building that are connected to the generator in case of commercial electrical failure. Pasquotank-Camden will dedicate a project manager to oversee the project and ensure that timelines are established, met and followed. Once the project is approved the ordering of equipment process will begin. With that being said we understand that the Board wants equipment updated every three to five years. In our current PSAP we are coming up on near time to renew/refresh some of the equipment, CADs, Servers, Recorders and such. Plans and to move current equipment that is less than three years old to the backup center and place new/refreshed equipment within the Primary to meet requirements/requests of the Board. The Primary is used daily so the plan would be to update the current. Contact has been made and quotes are in hand for the upgrading of

equipment for both the primary and secondary centers. The transition process is planned to take one to six months. During the first stage of the project the project manager would begin making sure that all data and network cabling was in place along with ordering and setting up of console furniture. Afterwards the project manager would coordinate with other vendors as to the start of the installation process. As this portion of the process is completed with vendors we will go into a testing phase at the site. Hopes are that within the six month process that all bugs have been worked out of the system and we are ready for a go live status.

**7. Please identify the interface or compatibility between existing equipment and/or software and that which you intend to purchase.**

Pasquotank-Camden Elizabeth City Central Communications plans to continue working with our previous vendors to update/refresh current equipment and place the older (2-3 year old equipment) into the backup center. We have just completed a radio enhancement study and moving towards operating off of the states VIPER System. Enhancements are also needed with paging capabilities and we are looking to implement a simulcast paging system on our current VHF analog radio. With this we will be seeking a reconsideration of funds use to help support/implement to upgrade

## Statement of Need

***Required for all grant types, this statement should reference the relationship of the grant project to NCGS §143b-1407(b) and the current funding priorities established by the Grant Policy and Procedures and include evidence of any financial need.***

**8. Please indicate how your PSAP or group of PSAPs meets the statutory criterion of serving a rural or high cost area.**

According to the NC Department of Commerce Pasquotank County is considered to be in the top 80 most economically distressed counties while Camden County is in the Top 40. The current economic income is such that it allows both to maintain normal operations, but does not allow for expansion, nor does it allow for rapid rebuilding of services that have been damaged due to natural disasters that these two counties have the probability of experiencing yearly.

**9. Please identify funding priorities, their impact on operational services, and consequences of not receiving funding.**

Elizabeth City State University is proving the neccessary space needed to house the Pasquotank-Camden Elizabeth City Central Communications Backup center on a \$1 Lease per year. The ability to properly equip this space so that it close to mirros the current center (CAD, hardware, software, radio communications and administrative hardware) is the most costly and cannot be covered by the agencies current budget.

**10. Please provide a copy of your PSAP's long-term or strategic technology plan and identify how the project fits within it.**

Our long term plan is to always update the primary PSAP with the latest and greatest (newest models) of current equipment. We understand that the NC 911 Board is looking at equipment replacement programs and our thought is to make sure the daily operations of our primary PSAP has that. With that in mind the not so old equipment in the primary will be moved into the backup center always keeping that equipment within five to six years of age..

**11. Please identify the likelihood of completing the project utilizing your 911 fund balance and the percentage of grant funding being requested in relation to total project costs.**

We are seeking grant funding for all eligible and allowable aspects of the backup center. Currently the fund balance end June 30 2015 ws at \$206,917.70. Our plan is to spend down to no less than \$100,000 of fund balance to assist with purchases. Our center is currently in the processs of switching over to the states VIPER System and are needing to do some upgrades with that and with current radio system dealing with simulcasting our VHF radio for paging of Fire and EMS. Also with upgrades we are looking to tying into the Farmville site of VIPER with fiber links to assist with identifying all of our responders. Without the assistance of this grant then a majority of our upgrade plans will fall through.

# ***Regional Initiative Enhancement/Replacement Project***

***Required for all Regional Initiative Enhancement/Replacement project types.***

***Regional initiative enhancement/replacement projects are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such projects may involve two or more primary PSAPs.***

## **12. What is the relationship of participating PSAPs to the initiative? Provide MOUs between PSAPs identifying each participant PSAP's responsibilities to the project.**

Currently the Pasquotank-Camden Elizabeth City Central Communications Center handles all 911 calls for assistance on the campus of Elizabeth City State University. If it is a Law Enforcement event then the information is passed along to the Telecommunications Staff at ECSU PD. All other calls for assistance, Fire and EMS are all dispatched by Pasquotank-Camden EC CCC. MOU's are being obtained. Currently ECSU Telecommunications is a one seat affiliate. They are not a PSAP. Plans are for Pasquotank-Camden Elizabeth City Central Communications to share the room that they will be moving into. This again is one of the rooms on the campus of ECSU and one of only two rooms within Griffin Hall that are on the new generator. During emergency transitions ECSU Telecommunications will answer calls for service along with a campus security officer until 911 staff can arrive. Any other time, as when the backup center is due for testing the Friday morning shift will arrive and call the Primary Center to make them aware and the Thursday night shift will start signing off. ECSU responsibility to be to have their Telecommunications Officer handle with assistance of Campus Security Office, calls for service until the arrival of 911 staff. In an emergent situation this should take less than 15 minutes. ECSU TC staff will be bringing up 911 staff computers so they will be ready for logon.

## **13. Identify intended collaborative efforts between participating PSAPs.**

Currently the Pasquotank-Camden Elizabeth City Central Communications Center handles all 911 calls for assistance on the campus of Elizabeth City State University. If it is a Law Enforcement event then the information is passed along to the Telecommunications Staff at ECSU PD. All other calls for assistance, Fire and EMS are all dispatched by Pasquotank-Camden EC CCC. MOU's are being obtained. Currently ECSU Telecommunications is a one seat affiliate. They are not a PSAP. Plans are for Pasquotank-Camden Elizabeth City Central Communications to share the room that they will be moving into. This again is one of the rooms on the campus of ECSU and one of only two rooms within Griffin Hall that are on the new generator. During emergency transitions ECSU Telecommunications will answer calls for service along with a campus security officer until 911 staff can arrive. Any other time, as when the backup center is due for testing the Friday morning shift will arrive and call the Primary Center to make them aware and the Thursday night shift will start signing off. ECSU responsibility to be to have their Telecommunications Officer handle with assistance of Campus Security Office, calls for service until the arrival of 911 staff. In an emergent situation this should take less than 15 minutes. ECSU TC staff will be bringing up 911 staff computers so they will be ready for logon.

**14. Identify how resource sharing will take place.**

The only resource sharing that will be taking place on the campus of Elizabeth City State University will be of the facilities. We will be sharing the room with the ECSU Campus Police Telecommunications department.

**15. Indicate how the initiative impacts the operational or strategic plans of the participating agencies.**

The Backup 911 center will ensure continuity of operations and will also allow our Primary PSAP and backup center to run simultaneously if necessary. While one of this regions greatest risk is from natural disasters, most particularly hurricanes, other multi-jurisdictional /multi-agency incidents affecting the region are also possible. During large scale incidents, the backup center may be utilized as a regional PSAP if needed and increase effective resource management from a single point of control rather than fragmenting control among multiple PSAP's.

***NOTE: The following section on “Consolidation Project Plan” is ONLY required if your type of grant is a “Consolidation”. If your project IS NOT a Consolidation, proceed to question # 23 to complete the grant application.***

**16. Indicate how a consolidation would take place and improve service**

Click or tap here to enter text.

**17. Indicate how the consolidated PSAP should be organized and staffed**

Click or tap here to enter text.

**18. Indicate what services the consolidated PSAP should perform**

Click or tap here to enter text.

**19. Indicate how consolidated PSAP policies should be made and changed**

Click or tap here to enter text.

**20. Indicate how the consolidated PSAP should be funded exclusive of grant funding**

Click or tap here to enter text.

**21. Indicate what changes or improvements should be made to inter-communications among the local governments participating in the consolidation in order to better support operations.**

Click or tap here to enter text.

**22. Discuss sustainability of the consolidation project during the proposed term of the project, and for the foreseeable future.**

Click or tap here to enter text.





## FINANCIAL DATA

### **23. Current 911 Fund Balance**

\$206,917.70

### **24. Amount Requested**

\$1,347,705.50

### **25. Total Project Cost**

\$1,453,705.50

## Budget and Budget Narrative

***A budget and budget narrative must be supplied for all types of projects, as well as a copy of the applicant agency's approved FY 2016 PSAP budget.***

### **26. List planned expenditures**

- (1) \$118,039.20 - Update of CAD and CAD Servers. All newer equipment will go into the Primary PSAP and older equipment (less than 3 years old) going to the backup center.
- (2) \$305,682.30 to upgrade our current Patriot phone system to a Geo-Diverse Vesta 9-1-1 phone system. (5 workstations within the Primary PSAP and 5 Command Post stationed at the backup center).
- (3) \$501,489 (Discounted price from Motorola) Update MCC-7500 Equipment for the Primary PSAP and older equipment moving to the Backup Center.
- (4) - \$29,200.19 for Dispatch consoles for the backup center.
- (5) Approximately \$220,000 VHF 3 site Simulcast paging sites.
- (6) \$93,245.00 for an updated recorder system. This will be brand new at both locations due to the upgraded recorder and current system not communicating without some interfacing if that is possible.
- (7) Approximately \$8,000 Chairs for the new backup center

(8) Priority Dispatch Protocols for the backup center \$28,050.

(9) \$150,000 to cover the cost of a fiber back haul to the states VIPER backhaul site in Farmville, NC

**27. Provide a budget narrative that briefly explains the reason for each requested budget item.**

We are currently using SunGARD OSSI for our CAD vendor. We will be sole sourcing with this vendor. We have worked with them since 2004. We will continue to work with Wireless Communications as the Vesta Phone System is a complete upgrade from our current phone which was purchased through Wireless. Our current radio vendor is Gately Communications. The radio upgrade pricing came directly from Motorola Solutions. The furniture was priced through Gately Communications. We are not looking to have the most expensive furniture, just something conducive to work with. The simulcast system is greatly needed. We have areas within our jurisdiction where responders are unable to receive tones on their pagers. We are looking to upgrade our current VHF paging channel to a Simulcast system in hopes that all responders are able to receive pages. We are looking to sole source with our current radio vendor, Carolina Recording System. Our last purchase of chairs was with Miller at Work, a NC based vendor. Priority Dispatch (Sole Source). The Fiber Link backhaul will be our connect from center to the state VIPER network. More than most like with CenturyLink

**28. State how you will follow applicable procurement law, rules, and policies.**

For a majority of our purchases we are looking to do a sole source solution. As far as the simulcast system that may go out for RFP.

**29. If the project will have ongoing expenses, such as monthly recurring charges, describe plans and specific sources for future/long-term funding and demonstrate how the project will be sustained in the future without additional 911 Grant Program funding.**

The plan will have recurring, ongoing cost such as phone lines and maintenance of equipment. That that is surcharge allowable will be used to cover those costs and what is not allowable will be covered by interlocal agreements.

## **Evaluation**

***All applications must include evaluation information. The final report shall include an evaluation demonstrating that the equipment or services funded by the grant have been purchased, installed/implemented, and are performing as expected.***

**30. Explain how your evaluation will measure the achievement of the goals and objectives identified in the Project Description with a timeline for meeting short, intermediate, and long term goals.**

All goals associated with this project will be met immediately upon installation of new equipment. We are requesting through this grant to necessary funds to necessitate the backup center. Our plan is to have the backup center manned once monthly (Friday morning at 0700 - Monday 0700). Minimum backup center manning will be once quarterly. Working out of the backup center in this manner will provide at a minimum of 72 hours of continuous work. This method should allow for any deficiencies that may exist to be spotted and corrected in a timely manner, as well as allowing each shift to become acclimated to the new environment. Doing so on a constant basis, the objective would be to reduce the amount of time required to be up and operational at the backup location in the event a true evacuation emergency situation would arise.

**31. Describe how evaluations will be conducted, including performance parameters which must be met in order to meet acceptance criteria.**

The evaluation will be conducted by the Project Manager. In addition to the monthly (quarterly) training at the backup center, there are plans to conduct unannounced evacuation drills from the Primary PSAP to the backup center once quarterly.

**32. Identify how data will be collected and presented**

With our plan for a GEO Diverse system the equipment collecting data should be no issue. We should still be able to generate reports from which ever site were are designed to be working out of at a particular time.

COMMISSIONERS

Joseph S. Winslow, Jr., Chairman  
Cecil Perry, Vice-Chairman  
Jeff Dixon  
Lloyd E. Griffin, III  
Dr. William R. Sterritt  
Frankie Meads  
Bettie J. Parker



COUNTY MANAGER  
Rodney Bunch

COUNTY ATTORNEY  
R. Michael Cox

CLERK TO THE BOARD  
Lynn Scott

COUNTY OF PASQUOTANK

Post Office Box 39  
Elizabeth City, North Carolina 27907-0039  
(252)335-0569  
Fax (252)337-6610

June 1, 2016

North Carolina 911 Board  
Department of Information Technology  
P.O. Box 17209  
Raleigh, NC 27619-7209

RE: Pasquotank County Backup PSAP

Dear Chairman Estes and Members of the Board:

This letter is being enclosed with Pasquotank County's grant submission for the county's backup PSAP facility. Pasquotank's 911 Center provides calls for not only Pasquotank County but also Camden County and the City of Elizabeth City.

Pasquotank County has been in preliminary negotiations with Elizabeth City State University (ECSU) about locating the backup PSAP on its campus. ECSU is currently working with the State Property Office to secure a lease with the county for the backup PSAP. Although there is not a signed agreement at this time the County is diligently working to secure a lease.

The county hopes that its efforts as noted herein will assist in securing grant funds. Please let me know if you have any questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "R. Michael Cox", is written over a faint, larger blue ink signature.

R. Michael Cox  
County Attorney

RMC/mwp

cc: Randy Cartwright, Sheriff  
Rodney Bunch, County Manager

**SUNGARD®**  
PUBLIC SECTOR

**Add-On Quote**

**Quote Prepared By:**

Amy Shultz  
4000 OSSI Court  
High Point, NC 27265  
Phone: (336) 885-0911 Fax: (336) 885-5329  
Email: amy.shultz@sungardps.com

**Quote Prepared For:**

Collin Flatness  
Pasquotank County 911 Center  
206 East Main Street  
Elizabeth City, NC 27907  
(252) 335-4487

Quote	Date	Valid Until
Q-00019916	04/29/2016	07/28/2016

**Third Party License Fees**

Product Code	Product Name	Quantity	Ext Price	Maintenance
MIC-SQL-S14LF	Microsoft SQL Server Standard Edition Core License Pack	1	7,871.00	-
MIC-WIN-12S	Microsoft Windows Server 2012R2 - Standard Edition - 9 Servers	1	5,855.00	-
NEV-PHBS	Neverfail Physical Standard Bundle	1	6,266.00	-
NEV-WANS	Neverfail WANSmart	1	3,094.20	-
		<b>Totals:</b>	<b>\$23,086.20</b>	-

**Hardware**

Product Code	Product Name	Quantity	Ext Price	Maintenance
NEW-MISC-HW	Dell PowerEdge R730 - Central SQL	1	27,720.00	-
NEW-MISC-HW	2 - Dell PowerEdge R630 - CAD App Svr	1	17,435.00	-
NEW-MISC-HW	1 - Dell PowerEdge R630 - RMS App Svr	1	8,729.00	-
NEW-MISC-HW	2 - Dell PowerEdge R630 - Message Switch Svr	1	13,849.00	-
NEW-MISC-HW	2 - Dell PowerEdge R630 - Domain Controller	1	10,980.00	-
		<b>Totals:</b>	<b>\$78,713.00</b>	-

**Professional Services**

**SunGard Professional Services**

Product Code	Product Name	Proj Mgmt	Impl Svcs	Consulting	Development	Total Services
OS-PSJ-PM	ONESolution Public Safety & Justice Project Management	Ext Price: 1,600.00	-	-	-	1,600.00
		<b>Totals:</b>	<b>\$1,600.00</b>	-	-	<b>\$1,600.00</b>

**Third Party Professional Services**

Product Code	Product Name	Proj Mgmt	Impl Svcs	Consulting	Development	Total Services
NEV-IREM	Neverfail Remote Implementation Services	Ext Price: -	5,940.00	-	-	5,940.00
		<b>Totals:</b>	<b>\$5,940.00</b>	-	-	<b>\$5,940.00</b>

**Install / Tech & Training Professional Services****Services**

Product Code	Product Name	Install/Tech	Training	Total Services
OS-IMCAD	ONESolution CAD Migration Services	1,400.00	-	1,400.00
OS-IMMSG	ONESolution Message Switch Migration Services	1,400.00	-	1,400.00
OS-IMRMS	ONESolution RMS Migration Services	1,400.00	-	1,400.00
OS-ISQL	Microsoft SQL Server Software Implementation Services	1,400.00	-	1,400.00
PS-TS	NeverFail onsite installation and configuration	1,600.00	-	1,600.00
<b>Totals:</b>		<b>\$7,200.00</b>	<b>-</b>	<b>\$7,200.00</b>

**Travel & Living****Services**

Product Code	Product Name	Quantity	Ext Price
FIS-TL	SunGard Public Sector Travel & Living Expenses Estimate	1	1,500.00
<b>Totals:</b>			<b>\$1,500.00</b>

**Product & Services**

<b>Professional Services:</b>	\$8,800.00
<b>Third Party License Fees:</b>	\$23,086.20
<b>Third Party Professional Services:</b>	\$5,940.00
<b>Third Party Hardware:</b>	\$78,713.00
<b>Subtotal:</b>	<b>\$116,539.20</b>

**Product & Services Totals**

**Net Third Party Hardware:** \$78,713.00

**Travel & Living Estimate**

Travel and living expenses are an estimate. Actual expenses will be charged per our travel policy.

\$1,500.00

**Total:** \$118,039.20

**Third Party Maintenance:** \$2.00

**Product Notes**

FIS-TL: Travel and living expenses are an estimate. Actual expenses will be charged per SunGard Public Sector's travel policy.

NEV-IREM: Remote implementation for Neverfail products. Implementation services are performed by Neverfail.

NEV-PHBS: Neverfail Physical Standard Bundle (NEV-PHBS). Standard 9x5 service care per Physical Pair. Bundle includes Physical ITCE license, training, first year of support, install, and one first year health check. Two or more pairs may be purchased at an additional cost.

NEV-WANS: Neverfail WANSmart (NEV-WANS) Implementation services are performed by Neverfail.

OS-IMCAD: Requires a Windows 2003 or higher domain is in place and functional. If not, client required to provide all necessary equipment and services for implementation.

OS-IMMSG: Requires a Windows 2003 or higher domain is in place and functional. If not, client required to provide all necessary equipment and services for implementation.

OS-IMRMS: Requires a Windows 2003 or higher domain is in place and functional. If not, client required to provide all necessary equipment and services for implementation.

---

**From:** Robinson, Rob [<mailto:Rob.Robinson@centurylink.com>]

**Sent:** Thursday, February 04, 2016 10:55 AM

**To:** Barefoot, Ronnie

**Subject:** Back Up Pricing

Ronnie,

Per our phone conversation, I recommend the following phone and network solutions for your back up plan.

6 -911 Trunks (4 Wire line/2 Wireless) (\$86.55 Each plus a onetime install fee per line of \$41).

\$519.30 per month

2 Additional ALI Circuits (\$86.55 Each plus a onetime install fee per Circuit of \$41).

\$173.10 per month

Admin Lines \$54.50 each (if you DO want them to roller over to each other). Plus \$9 for the main rotary line that is your main hunt group line.

7 Admin + 2 Alarm (Plus the \$9 Call Forwarding feature)

\$508.50 per month

Total for all phone lines should be \$1,200.90 per month in new services.

I will get you the quote on your Ethernet as soon as possible.

Let me know if you need anything else my friend.

Rob Robinson

Public Safety Government Account Manager

320 1st Ave NE

Hickory, N.C. 28601

Office - 828-431-7820

Cell - 704-213-4113



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**March 24, 2016**

**Customer: Pasquotank County**

**Quote: Vesta 9-1-1 Phone System**

QTY	DESCRIPTION	TOTAL
1	Geo-Diverse Vesta 9-1-1 Phone System including:	\$ 113,698.98
5	1 Year of Software Support	
5	Vesta Call Taker Workstations	
5	22" Touchscreen Monitors	
5	24 Key keypads	
5	CDR License for ECATS	
1	Recommended Spare Parts	\$ 4,144.29
5	CommandPost	\$ 83,941.58
1	Shipping	\$ 1,119.79
1	Turn Key Installation	\$ 39,138.05
1	Remote FE Service	\$ 6,000.00
3	Call Taker and Administrator Training	\$ 2,172.00
1	24x7 Remote Monitoring Service	\$ 16,140.00
<b>Options:</b>		
1	SMS Integration	\$ 30,449.50
1	Spectracom Netclock for Backup PSAP	\$ 8,878.11
<b>Total:</b>		<b>\$ 305,682.30</b>
(This is a turnkey quote for the E9-1-1 system including installation, training, warranty and software support for 1 year. The Vesta 9-1-1 system requires a NENA approved NetClock.)		



SECTION 5

# PRICING

Motorola is pleased to provide the following equipment and services to Pasquotank County, NC:

• Description	List Price	Discounted Price
• Total Equipment	\$425,766.00	\$367,525.00
• Total SI/ Services	\$149,232.00	\$133,492.00
• Total Freight	\$000,472.00	\$000,472.00
<b>System Total</b>	<b>\$575,470.00</b>	<b>\$501,489.00</b>

Note: The SI Services include first year Warranty and Warranty Wrap

## Optional: Post Warranty and Maintenance for Years 2-5

• Year	Price
• Year 2	\$21,588.00
• Year 3	\$22,619.00
• Year 4	\$23,646.00
• Year 5	\$24,675.00

**Total for years 2-5 Post warranty and Maint. \$92,527.00**



## Budgetary Quote

Pasquotank County Communications  
Pasquotank 911 Backup (ECSU)  
Atten: Ronnie Barefoot  
3-25-2016

## Gately Communication, Co.

320 West Lake Drive  
Kill Devil Hills, NC 27948  
(252) 441-2066 Fax: 441-0913  
Submitted By: Warren Bell

**Job Description:** Furnish and install (5) Wrightline Console Furniture positions as shown on CAD Drawings.

LN	Qty	Item No	Description (Colors/Comments)	Unit Price	GSA	Ext Price
1	3	PC4829S1	48" Core, Single Sided Steel: Black	\$387.75	G	\$1,163.25
2	5	PC6029S1	60" Core, Single Sided Steel: Black	\$430.76	G	\$2,153.80
3	3	PDW4816S	48x16 Display Wall SS Steel: Black	\$516.06	G	\$1,548.18
4	5	PDW6016S	60x16 Display Wall SS Steel: Black	\$602.07	G	\$3,010.35
5	3	PDWT48S1	48" Wide Wall Top Trim, SS Steel: Black	\$94.47	G	\$283.41
6	5	PDWT60S1	60" Wide Wall Top Trim, SS Steel: Black	\$102.93	G	\$514.65
7	1	PCPUCADR	CPU Caddy Right Steel: Black	\$387.75	G	\$387.75
8	4	PCPUCADL	CPU Caddy Left Steel: Black	\$387.75	G	\$1,551.00
9	5	PCPR2428	CPU Docker Right Steel: Black	\$602.07	G	\$3,010.35
10	1	PCPD3628	CPU Docker Steel: Black	\$951.75	G	\$951.75
11	2	PUPRFLH1	30"D Full Depth Upright LH Steel: Black	\$172.02	G	\$344.04
12	2	PUPRSLH1	30"D Cantilever Top Support LH Steel: Black	\$49.35	G	\$98.70
13	4	PCSK1200	12" Wide Core Skin Steel: Black	\$59.93	G	\$239.72
14	5	PCSK2200	22" Wide Core Skin Steel: Black	\$81.08	G	\$405.40
15	6	PVET16T1	Vertical End Trim T1 (16) Steel: Black	\$49.35	G	\$296.10
16	1	PCT116P1	90D Conn Tier 1 (16) Steel: Black	\$258.03	G	\$258.03
17	1	PSC48489	Ergo 48 x 48 Stationary corner w/spring assist K/B surface Steel: N/A - Laminate: Black (Black Trim)	\$740.25	G	\$740.25
18	4	PWS60301	60X30 Linear Worksurface Steel: N/A - Laminate: N/A	\$301.04	G	\$1,204.16
19	1	PCW4830R	48x30 Curvilinear Worksurface Right Steel: N/A - Laminate: Black (Black Trim)	\$258.03	G	\$258.03
20	1	PCW6030L	60x30 Curvilinear Worksurface Left Steel: N/A - Laminate: Black (Black Trim)	\$301.04	G	\$301.04
21	10	KONWL2B	FPD Arm-SW Mount Dual Vert FPD	\$384.00		\$3,840.00
22	4	KONWL9D	Fpd Arm-Sw Hght Adj Single Fpd Black, Centris Head	\$216.29	G	\$865.16
Equipment Sub TOTAL						\$ 23,425.12
Transportation						\$ 650.00
Installation						\$ 3500.00
TAX 6.75%						\$ 1625.07
GRAND TOTAL						\$ 29,200.19

# ***Budgetary Quote***

***Gately Communication, Co.***

**Pasquotank County Communications**

**Atten: Tobie McPherson  
Ronnie Barefoot**

**320 West Lake Drive  
Kill Devil Hills, NC 27948  
(252) 441-2066 Fax: (252) 441-0913**

**Submitted By: Warren Bell  
4-12-2016**

**Job Reference: Pasquotank County VHF (3 site) Simulcast Paging System**

**>Modify existing VHF Fire License by adding (2) additional simulcast sites (\$ 1,500.00)**

Note: South Mills and Wades Point will be added to Wellfield site. Existing Fire Dispatch

frequency (Old County Fire 154.310 Mhz) will be licensed as the simulcast Paging frequency.

Note: Existing microwave hops from (Wellfield to Wades Point) and (Wellfield to South Mills) will be used.

Note: Existing VHF antenna systems at Wellfield will be used.

Note: RX antennas at S Mills and Wades Point will be used for Main Fire Dispatch remote Receive antennas

**>Furnish & install (2) VHF TX antenna systems (Wades Point & S Mills) (\$ 18,000.00)**

**>Furnish and install (3) TRAK 9100 or equivalent GPS Time syncs (\$ 105,000.00)  
(Wellfield, S Mills & Wades Pt)**

Note: These GPS Time syncs can be used to sync the 700/800 Mhz system as well

**>Furnish and install (3) GTR-8000 VHF Simulcast repeaters (\$ 54,000.00)  
(Wellfield, S Mills & Wades Pt)**

**>Furnish and install (4) MLC-8000 Comparators (\$ 14,000.00)**

Note: (2) at Wellfield, (1) Wades Point, (1) South Mills

**>System Integration and alignment (\$ 14,500.00)**

**>Misc Hardware, switches, cabling, etc (\$ 4500.00)**

**Total (\$ 211,500.00)**

**Notes:**

- **Quoted prices are strictly Ball Park figures for Budgetary purposes only.**
- **Tax NOT included in quote (Charged separately if applicable)**
- **No subscriber equipment or control station equipment is included in quote**
- **All shelters, electrical and HVAC work is the responsibility of the customer to provide**
- **No UPS include in quote**
- **No building construction cost other then equipment install in this quote**
- **Equipment is shipped directly to Gately for set up and checkout**
- **Structural Analysis will be done on all Towers as needed.**
- **Estimated cost of Structural Reports is \$3,500.00 per site. Additional to the quote.**
- **Structural enhancements that may be required is NOT included in this quote and would be in addition to quoted amount .**



## Sales Quote #128128

by Tim Martin

Date 4/25/2016

110 South Regent Street, Suite 500  
Salt Lake City, UT 84111  
(801) 363-9127 \* (801) 363-9144 fax  
(800) 363-9127 toll-free

Bill To: Pasquotank-Camden 911  
Attn: Ronnie Barefoot  
200 East Colonial Ave  
Elizabeth City, NC 27909-4304

Ship To: Pasquotank-Camden 911  
Attn: Ronnie Barefoot  
200 East Colonial Ave  
Elizabeth City, NC 27909-4304

For: Pasquotank-Camden 911  
Attn: Ronnie Barefoot  
200 East Colonial Ave  
Elizabeth City, NC 27909-4304

Phone: 252-338-3772 Fax: 252-335-1777

Qty	Description	Unit Price	Extended Price
5	ProQA Software Licenses - backup (Medical - Paramount - Standard - North American English) Offsite, backup location software	\$1,750.00	\$8,750.00
5	ProQA Software Licenses - backup (Fire - Paramount - Standard - North American English) Offsite, backup location software	\$1,750.00	\$8,750.00
5	Backup Cardset (Medical - 13.0 - Standard - North American English) Licensed manual protocol set for backup	\$495.00	\$2,475.00
5	Backup Cardset (Fire - 6.1 - Standard - North American English) Licensed manual protocol set for backup	\$495.00	\$2,475.00
1	Annual Maintenance/Support - ESP (P) License renewal, service and support	\$5,600.00	\$5,600.00
Sub-Total:			\$28,050.00
Tax:			\$0.00
Shipping & Handling:			\$0.00
Total:			\$28,050.00

This quote is valid for 120 days from date of issue. Unless otherwise agreed to in writing, all prices quoted are exclusive of any applicable sales, use, withholding and other taxes, duties, or government assessments relating to this transaction, which are the sole obligation of Buyer. Payment terms are Net 30 unless otherwise noted.

Seller will use reasonable efforts to deliver products on time, but will not be liable for any expenses or damages incurred as a result of late delivery or for circumstances beyond Seller's reasonable control. Shipments are made F.O.B. origin, which is Salt Lake City, UT, USA. All insurance expenses and risk of loss are assumed by Buyer.

Purchasing or signing below acknowledges your agreement to the terms above and to the "break the seal" or "click to accept" license agreement associated with the licensed product(s). The license agreement is included with the licensed product(s) and you will have the opportunity to read it before opening or installing. If unacceptable, you may return the licensed product(s) within 10 days of receipt for a refund, less any applicable restocking fees and original shipping charges.

Sign here ☒ \_\_\_\_\_ Date \_\_\_\_\_

Payment Method: (Check enclosed, or...)

☐ Purchase Order # \_\_\_\_\_

☐ VISA/MasterCard/AMEX # \_\_\_\_\_

*"To lead the creation of meaningful change in public safety and health."*

# North Carolina 911 Board Grant Application

## General Information

**Project Title** Perquimans County 911 Communications Backup Plan

**Grant Fiscal Year - 2017**

**Project Director** Jonathan A. Nixon

**Project Contact** Jonathan A. Nixon

**Project Contact Title** Emergency Services Director

**Address** PO Box 563

159 Creek Drive

Hertford, NC 27944

**Phone** 252-426-5646 Office 252-331-9817 Cell

**Email** jnixon@perquimanscountync.gov

*Three types of grants are available, as described below. In the box following these descriptions, please select the Grant Type which most appropriately fits your request.*

- **Consolidation** - A consolidation project involves combining one or more PSAPs with a primary PSAP with an integrated management structure that serves the same populations and jurisdictions previously served by offering grant funding for both PSAP costs authorized under G.S. 143B-1406(e) and costs not authorized under G.S. 143B-1406(e) to include construction costs.
- **Individual PSAP Enhancement/Replacement** - the relocation costs of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.
- **Regional Initiative Enhancement/Replacement** - Regional initiatives are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such initiatives comprise projects involving two or more primary PSAPs or a primary PSAP with approved secondary PSAPs. Costs of relocation of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.

**Grant Type** [Select]

**PSAP Name** **Perquimans County Communications**

- 1. Has the Revenue/Expenditure Report for FY15 been completed and approved by the NC 911 Board Fiscal staff for the applicant PSAP?**

YES

- 2. Has the applicant PSAP submitted a plan and secured the means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP (backup plan)?**

YES

- 3. If the answer to #2 above is yes, does the PSAP have the means to implement the plan before 7/1/16?**

NO

- 4. If plan implementation will not occur before July 1, 2016, has an extension been requested?**

YES

---

# Project Description

***Required for all grant types, this should be a thorough, concise, and complete description of the proposed project.***

## **5. Please outline project goals and objectives.**

The goal of this project is to provide a Backup PSAP for the Perquimans County 911 Communications Center. Objectives include the following:

1. Provide for Interim Backup PSAP
2. Provide Backup Operations at the Chowan 911 Communications Center

## **6. Please provide an implementation strategy and work plan, including a timeline.**

In the event of a total loss of all systems, Perquimans telecommunicators would make contact with Chowan 911 Communications using whatever means possible (phone, DCIN Message, VHF Radio, 800mhz Radio, cell phone, etc) to advise they had activated the Night Switch, with all Perquimans 911 calls being forwarded to Chowan 911. Perquimans telecommunicators will immediately travel to the Chowan Communication Center, activate the second Night Switch and begin answering Perquimans 911 calls at Chowan 911 Communications.

In the event of a scheduled or less time sensitive failure (like the generator not coming online during a loss of power) the Perquimans telecommunicators would contact Chowan 911 Communications to notify them of the issue. One of the two working Perquimans telecommunicators would travel to Chowan 911 Communications. Once the one telecommunicator is online in Chowan and can takeover answering calls, the Night Switch will be activated. The second telecommunicator, having been relieved, would then travel to Chowan 911 Communications.

With regards to CAD, Perquimans will move its backup CAD server to Chowan 911 Communications. The main and backup server will communicate via internet connection with 30meg segregated by a firewall for CAD communication. Neverfail software will reside on both servers and provide a replication solution. In the event of a system failure, this solution will automatically fail to the backup server without user intervention. When the primary server is restored, replication will happen automatically. In the event of a complete Perquimans 911 Communications Center failure that results in evacuation, Perquimans telecommunicator will travel to Chowan 911 Communications and resume operations on two of the Chowan telecommunicator positions. A third position will be available via laptop computer.

With regards to radios, Perquimans will purchase and install the following radios and associated antenna systems at Chowan 911 Communications:

-Motorola 800 Mobile	Perquimans Law 800
-Motorola 800 Mobile	Perquimans EMS 800
-Motorola 800 Mobile	Perquimans Fire 800
-Motorola 800 Mobile	Perquimans EM 800
-Motorola 800 Mobile	Perquimans TAC 800
-Motorola 800 Mobile	Perquimans M/A 800
-Motorola VHF Mobile	Perquimans EMS
-Motorola VHF Mobile	Perquimans Fire TAC 1

-Motorola VHF Mobile	Perquimans Fire TAC 2
-Motorola VHF Mobile	Perquimans Fire TAC 3
-Motorola VHF Mobile	Perquimans Fire TAC 4

It should be noted that the Statewide 800, Perquimans VHF Fire and Perquimans UHF Law channels are already in use in the Chowan 911 Communications radio console system.

With regards to voice recording, we will be adding additional capacity in the Perquimans 911 Communications recorder to record Chowan 911 Communications channels. Chowan will record Perquimans channels in their recorder as well.

#### Projected Timeline

Task	Start Date	Finish Date
Backup CAD Server Move/Workstations Online	10/1/16	12/31/16
Backup VIPER Phone System Online	10/1/16	4/1/17
Radio Tower at 911 Center	10/1/16	4/1/17
Radio Equipment Online	10/1/16	5/1/17
Recorder Online	1/1/17	6/1/17
Staff Training – Test All Equipment	6/1/17	6/30/17
Backup PSAP Online	7/1/17	

#### **7. Please identify the interface or compatibility between existing equipment and/or software and that which you intend to purchase.**

We currently use a Viper Intrado telephone system, which will be replicated at our Backup Center. Southern Software is our CAD vendor and will be used at the Backup Center as well. Since the Chowan Telecommunicators are already trained in this software, implementation will be much easier as they provide interim backup PSAP staffing.



## Statement of Need

*Required for all grant types, this statement should reference the relationship of the grant project to NCGS §143b-1407(b) and the current funding priorities established by the Grant Policy and Procedures and include evidence of any financial need.*

**8. Please indicate how your PSAP or group of PSAPs meets the statutory criterion of serving a rural or high cost area.**

Perquimans County is a Tier 1 County, as rated by the NC Department of Commerce. We also meet the criteria for a Rural County per the Rural Center's hybrid formula.

**9. Please identify funding priorities, their impact on operational services, and consequences of not receiving funding.**

Without these funds we will not be able to implement our Backup PSAP Plan.

**10. Please provide a copy of your PSAP's long-term or strategic technology plan and identify how the project fits within it.**

We use life cycle estimates provided by the manufacturer of our equipment as well as technical advice from our IT contractor to determine a replacement schedule for equipment and to ensure that new technology mandates are met in a reasonable timeframe. Maintenance programs are in place for all systems to ensure quality operation.

**11. Please identify the likelihood of completing the project utilizing your 911 fund balance and the percentage of grant funding being requested in relation to total project costs.**

It is highly unlikely that we will be able to complete this project utilizing our 911 fund balance. We are requesting 100% of the total project costs but realize ongoing radio equipment maintenance and tower maintenance will be a county responsibility.

# ***Regional Initiative Enhancement/Replacement Project***

***Required for all Regional Initiative Enhancement/Replacement project types.***

***Regional initiative enhancement/replacement projects are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such projects may involve two or more primary PSAPs.***

## **12. What is the relationship of participating PSAPs to the initiative? Provide MOUs between PSAPs identifying each participant PSAP's responsibilities to the project.**

See attached MOU with Chowan County, noting that Perquimans 911 Communications will also serve as the Backup PSAP for Chowan 911 Communicaitons.

## **13. Identify intended collaborative efforts between participating PSAPs.**

Chowan 911 Communications and Perquimans 911 Communications will be involved collaboratively in this project. CAD workstations and radio consoles will be shared at the individual 911 Centers. Telecommunicators will cross-train in county operations to serve as interim backup 911 operators. Equipment will be hosted onsite and radios will be added to existing radio consoles.

## **14. Identify how resource sharing will take place.**

CAD workstations and radio consoles will be shared between agencies. Equipment will be hosted onsite and radios will be added to existing radio consoles. Antenna space will be provided on the new tower at Perquimans 911 Communications for Chowan 911 Communications to install their radio equipment.

## **15. Indicate how the initiative impacts the operational or strategic plans of the participating agencies.**

When serving as an Interim Backup PSAP, resources will be limited for a brief time as two telecommunicators will be serving in the capacity of what would typically be four telecommunicators. In addition, testing the backup plan will cause some hardship for telecommunicators as they will be reporting to work in a neighboring county. Finally, when testing is taking place, staff will not be available in their respective 911 centers for walk-in service.

**NOTE:** The following section on “Consolidation Project Plan” is ONLY required if your type of grant is a “Consolidation”. If your project IS NOT a Consolidation, proceed to question # 23 to complete the grant application.

**16. Indicate how a consolidation would take place and improve service**

N/A

**17. Indicate how the consolidated PSAP should be organized and staffed**

N/A

**18. Indicate what services the consolidated PSAP should perform**

N/A

**19. Indicate how consolidated PSAP policies should be made and changed**

N/A

**20. Indicate how the consolidated PSAP should be funded exclusive of grant funding**

N/A

**21. Indicate what changes or improvements should be made to inter-communications among the local governments participating in the consolidation in order to better support operations.**

N/A

**22. Discuss sustainability of the consolidation project during the proposed term of the project, and for the foreseeable future.**

N/A



## FINANCIAL DATA

### **23. Current 911 Fund Balance**

\$166,164.74 as of June 30, 2015. However, our current Funding Reconsideration reduced our fund balance to \$82,120.98.

### **24. Amount Requested**

\$533,957.00

### **25. Total Project Cost**

\$533,957.00

## Budget and Budget Narrative

*A budget and budget narrative must be supplied for all types of projects, as well as a copy of the applicant agency's approved FY 2016 PSAP budget.*

**26. List planned expenditures**

See attached spreadsheet.

**27. Provide a budget narrative that briefly explains the reason for each requested budget item.**

See attached spreadsheet and quotes.

**28. State how you will follow applicable procurement law, rules, and policies.**

It is our intention to award the separate pieces for this project to the companies listed.

**29. If the project will have ongoing expenses, such as monthly recurring charges, describe plans and specific sources for future/long-term funding and demonstrate how the project will be sustained in the future without additional 911 Grant Program funding.**

Most requests that have ongoing monthly fees are eligible for 911 funding. The maintenance of the radio tower and any radio equipment not 911 fundable will be included in the current radio maintenance contract funded in the local county 911 budget.

## **Evaluation**

***All applications must include evaluation information. The final report shall include an evaluation demonstrating that the equipment or services funded by the grant have been purchased, installed/implemented, and are performing as expected.***

**30. Explain how your evaluation will measure the achievement of the goals and objectives identified in the Project Description with a timeline for meeting short, intermediate, and long term goals.**

A fully functional Backup PSAP will be the measure of achievement for the stated goals and objectives.

**31. Describe how evaluations will be conducted, including performance parameters which must be met in order to meet acceptance criteria.**

All 911 calls for Perquimasn 911 Communications will be received and processed at the Backup PSAP for a given time period.

**32. Identify how data will be collected and presented**

CAD Call for Service reports will provide data needed to prove operation of the Backup PSAP.

**STATE OF NORTH CAROLINA  
MEMORANDUM OF UNDERSTANDING  
COUNTY OF CHOWAN & COUNTY OF PERQUIMANS  
BACKUP PSAP**

This Agreement, made this 16th day of May, 2016, by and between the County of Chowan (herein Chowan) and the County of Perquimans (herein Perquimans), for the purpose of insuring a functional Backup Public Safety Answering Point (herein PSAP) for both parties;

**WITNESSETH:**

WHEREAS, Chowan and Perquimans are both bodies corporate and political existing pursuant to the laws of the State of North Carolina; and

WHEREAS, Chowan and Perquimans are currently engaged in operating and maintaining respective county-wide "911 communications system"; and

WHEREAS, Chowan and Perquimans are desirous of insuring that any citizen utilizing the "Emergency 911" system in Chowan County or Perquimans County have their call answered as promptly and efficiently as possible; and

WHEREAS, during times of natural disaster and other unpredictable events, a county's 911 communications system may be temporarily disabled; and

WHEREAS, each party hereto recognizes the economy and benefits of utilizing the other's 911 emergency communications system temporarily and facilities for a longer term; and

WHEREAS, the parties desire to set forth in this MOU the terms by which Chowan and Perquimans may utilize the other's 911 emergency communications centers for the benefit of the people of Chowan and Perquimans Counties; and

NOW, THEREFORE, in consideration of the terms, conditions, and covenants expressed therein, the parties agree as follows:

**1. PURPOSE OF AGREEMENT**

The purpose of this MOU is to establish a formal agreement whereby Chowan utilizes Perquimans as its Backup 911 Center, currently located at 159 Creek Drive in Hertford, NC, during such times as Chowan may experience failure of its primary 911 Center, and Perquimans utilizes Chowan as its Backup 911 Center currently located at 305 West Freemason Street in Edenton, NC, during such times as Perquimans may experience failure of its primary 911 Center, subject to the terms of this MOU.

**2. RESPONSIBILITIES OF CHOWAN**

2.1 Chowan agrees to provide a physical location for placement and use of equipment needed for Perquimans to function as their 911 Center.

2.2 Chowan agrees to provide antenna space for Perquimans to install necessary radio equipment.



2.3 Chowan agrees to provide space in its recording system to capture all telephone and radio traffic associated with Perquimans during a Perquimans failure at Chowan's expense.

2.4 Chowan agrees to provide data connectivity (internet) at the Chowan location for Perquimans data use.

2.5 Chowan agrees to maintain its 911 Center facility operationally functional and up to date as possible.

2.6 Chowan agrees to provide key or other methods of access to Perquimans so that Perquimans will have access should a failure occur in Perquimans.

2.7 Chowan agrees to give the Perquimans 911 Director as much advance notice as practicable under the then existing circumstances of its need and intent to operate within the Perquimans facility.

2.8 Chowan agrees to process all Perquimans calls during a catastrophic failure until which time Perquimans personnel can reach the backup 911 Center and resume operations.

2.9 Chowan agrees to work with Perquimans to help train Perquimans Telecommunicators in dispatch methods for Chowan.

### 3. RESPONSABILITIES OF PERQUIMANS

3.1 Perquimans agrees to provide a physical location for placement and use of equipment needed for Chowan to function as their 911 Center.

3.2 Perquimans agrees to provide antenna space for Chowan to install necessary radio equipment.

3.3 Perquimans agrees to provide space in its recording system to capture all telephone and radio traffic associated with Perquimans during a Chowan failure at Perquimans' expense.

3.4 Perquimans agrees to provide data connectivity (internet) at the Perquimans location for Chowan data use.

3.5 Perquimans agrees to maintain its 911 Center facility operationally functional and up to date as possible.

3.6 Perquimans agrees to provide key or other methods of access to Chowan so that Chowan will have access should a failure occur in Chowan.

3.7 Perquimans agrees to give the Chowan 911 Director as much advance notice as practicable under the then existing circumstances of its need and intent to operate within the Chowan facility.

3.8 Perquimans agrees to process all Chowan calls during a catastrophic failure until which time Chowan personnel can reach the backup 911 Center and resume operations.

3.9 Perquimans agrees to work with Chowan to help train Chowan telecommunicators in dispatch methods for Perquimans.



Both parties also covenant and agree to the following:

1. **Governing Law.** This Agreement shall be governed by and construed in accordance with the internal laws of the State of North Carolina, without reference to any conflict or choice of laws provision which would operate to make the internal laws of any other jurisdiction applicable.
2. **Warranty.** The parties hereto warrant and represent that they have full authority under applicable law to participate fully in this Agreement and all of its several provisions.
3. **Modification.** This Agreement shall only be modified, amended or supplemented, by a written instrument signed by both parties to this Agreement.
4. **Unenforceability.** If any provision of this Agreement is held to be illegal, invalid or unenforceable under any present or future laws, such provision shall be severable and the remainder of the Agreement shall continue in full force and effect.
5. **Entire Agreement.** This Agreement is only the agreement between the parties hereto with respect to the subject matter hereof and contains all of the terms agreed upon, and there are no other agreements, oral or written, between the parties hereto with respect to the subject matter hereof.
6. **Term.** The term of this Agreement shall commence upon execution by both parties on July 1, 2017 or sooner if facilities, equipment and staff are ready and will continue until one of the parties delivers a notice of intent to terminate at least twelve months prior to the end of the noticing party's fiscal budget year.
7. **Termination.** Either may terminate this Agreement by delivering to the other party a notice of its intent to terminate twelve months prior of the end of the noticing party's fiscal budget year. Any such notice shall be delivered by registered or certified mail and shall be addressed as follows:

Chowan County Sheriff  
PO Box 78  
Edenton, NC 27932

Perquimans County Emergency Services Director  
PO Box 563  
Hertford, NC 27944

8. **Non-Discrimination.** Neither party hereto shall discriminate on the basis of race, religion, creed, color, gender or national origin.
9. **Other Agreements.** Nothing herein shall prevent either party to this Agreement from entering into other agreements or memoranda of understanding with other counties or local governmental entities in relation to the same subject matter herein.
10. **Remedies.** This Agreement shall be enforceable by each party by all remedies available at law or in equity. Failure or delay to exercise any right, remedy or privilege hereunder shall not operate as a subsequent enforcement.

IN WITNESS WHEREOF, Chowan and Perquimans have caused this Agreement to be approved or ratified in the manner prescribed by law, and have authorized execution by the officers below.



CHOWAN COUNTY

ATTEST:

Susanne Stallings  
(insert title - such as County Clerk)  
Susanne Stallings, Clerk

Jeffery A. Smith  
(insert full name/title here)  
Jeffery Smith, Chairman

[seal]

PERQUIMANS COUNTY

ATTEST:

Mary P. Hunnicutt  
(insert title - such as County Clerk)  
Mary P. Hunnicutt, Clerk to the Board

Janice McKenzie Cole  
(insert full name/title here)  
Janice McKenzie Cole, Chair

[seal]

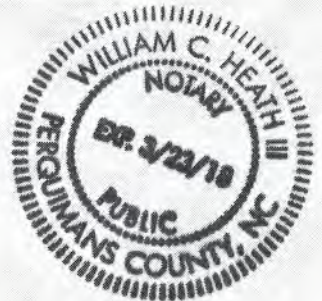
NORTH CAROLINA - Perquimans COUNTY

I, William C. Heath II, a Notary Public in and for the aforesaid County and State, do hereby certify that Mary P. Hunnicutt (insert name of person attesting above) personally appeared before me this day and acknowledged that she is Clerk of Perquimans County, a North Carolina municipal corporation, and that by authority duly given and as the act of the County of Perquimans, the foregoing instrument was signed in its corporate name by its Manager, sealed with its corporate seal, and attested by herself as Clerk (if that's the title the one attesting is).

Witness my hand and Notarial Seal, this 18<sup>th</sup> day of May, 2016.

My Commission expires: 3/23/18

William C. Heath II  
Notary Public



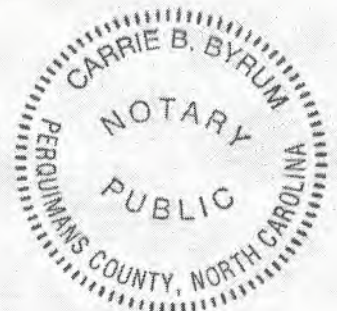
NORTH CAROLINA - Chowan COUNTY

I, Carrie B. Byrum, a Notary Public in and for the aforesaid County and State, do hereby certify that Susanne Stallings (insert name of person attesting above) personally appeared before me this day and acknowledged that she is Clerk of Chowan County, a North Carolina municipal corporation, and that by authority duly given and as the act of the County of Chowan, the foregoing instrument was signed in its corporate name by its Manager, sealed with its corporate seal, and attested by herself as Clerk (if that's the title the one attesting is).

Witness my hand and Notarial Seal, this 19<sup>th</sup> day of May, 2016.

My Commission expires: 10-05-2019

Carrie B. Byrum  
Notary Public





**Perquimans 911 Communicaitons - Backup PSAP Financial Documentation**

<u>Non-Eligible Costs</u>		<u>Surcharge Eligible Expenses</u>						
		One-Time Costs		Recurring Costs Annual		Recurring Costs Monthly		COMMENTS
Product/Service	Cost	Product/Service	Cost	Product/Service	Cost	Product/Service	Cost	
		Backup VIPER Phone System	\$190,716					Located at Chowan - Century Link Quote
		Direct Fiber Connection to Backup Site	\$48	Direct Fiber Connection to Backup Site	\$1,431			Dedicated Fiber Connection to Chowan - Century Link Quote
		Net Clock	\$14,111					Expanded to add Chowan backup equipment as well as onsite backup equipment - Century Link Quote
		Recorder Upgrade & NAS	\$20,519					Expand current recorder to account for Chowan channels and add a Network Addressable Storage device to backup the recorder - Edge One Solutions Quote
		Move CAD Server to to Backup Site	\$2,850					Move backup server from Perquimans to Backup Site and make data connecton - Southern Software Quote
		Backup CAD Workstation	\$4,110					CAD Workstation to be used at Chowan - Southern Software Quote
		MDIS for EMS	\$14,834	MDIS 24/7 Support	\$2,117			Mobile Data Information System for 6 EMS/EM Units \$ 24/7 Support - Southern Software Quote
		IT Support	\$3,750					IT Support/IT Project Management - no county IT staff - Practical Computing Quote
		CAD & Recorder Data Backup	\$4,815	CAD & Recorder Data Remote Backup	\$2,247			Backup for CAD & Recorder Server - Barracuda Networks Quote
		Radio Equipment	\$144,704					5th Radio Position & update console equipment; Radios at Chowan - Gately Communicaitons Quote
Radio Tower at 911 Center	\$66,220							Tower to provide antenna space for Chowan backup radios - Price Communicaitons Inc. Quote
Backup Microwave Connection	\$61,485							Microwave connection between 911 Center and Chowan - Gately Communicaitons Quote
<b>Non-Eligible Costs</b>	<b>\$127,705</b>	<b>Surcharge Eligible Expenses</b>	<b>\$400,457</b>	<b>Recurring Costs Annual</b>	<b>\$5,795</b>	<b>Recurring Costs Monthly</b>		

**Total Cost** **\$533,957**

Updated 5-19-16



JCW Pricing Tool 6.01

Quote Number# 16-003845

Account Manager: Robert Robinson

<div>Customer Legal Name: Perquimans County Communications</div> <div>Customer Billing Name: Perquimans County Communications</div> <div>Customer Address: PO BOX 45 , HERTFORD, NC 27944-0045</div> <div>Date Prepared: May 6, 2016</div> <div>Quote Expires: July 5, 2016</div> <div>Quote Number: 16-003845</div>					<div>Account Manager: Robert Robinson</div> <div>Centurion Maintenance</div> <div>Coverage: <u>Extended</u></div> <div>Contract Term: 36</div>		
QTY	Item	Total Non-Recurring Price	Annual Price - Year 1	Annual Price - Year 2+	Total Annual Price - Y1	Total Annual Price - Y2+	Total Term Price
	CPE - (Includes Shipping and Misc costs)	\$ 140,220.13			\$ 8,558.43	\$ 17,116.85	\$ 25,675.28
	Labor	\$ 10,300.00					
	On-Site Tech		\$ -	\$ -			
	Vendor Support	\$ 14,520.00	\$ -	\$ -			
Total Prices		\$ 165,040.13	\$ -	\$ -	\$ 8,558.43	\$ 17,116.85	\$ 25,675.28

Prices shown on this page represent recurring and nonrecurring charges for items as described. These prices do not include recurring or nonrecurring charges for taxes, duties, tariffs, or telecommunication services.

165,040.13  
 25,675.28  


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 \$190,715.41



Valid Until

July 5, 2016

Customer Legal Name: Perquimans County Communications  
Customer Billing Name: Perquimans County Communications  
PQ BOX 45  
HERTFORD  
NC, 27944-0045  
Quote-Build #: 16-003845-NIBS

Description of Work  
to be Performed:

*Equipment pricing shown is based upon direct sale accompanied by new Centurion Maintenance contract on same.*

See Vendor Support Tab for  
Additional Pricing

Part Number	Description	Quantity	Unit Price	Extended Price
	Perquimans County	1	\$	\$
	VIPER	1	\$	\$
912817/BB	7 Foot Cabinet Prebuilt Building Block	1	\$	\$
912890/BB	Media Kit Prebuilt Building Block	1	\$	\$
912800	VIPER Gateway Shelf	3	\$	\$
912801	CAMA Interface Module (CIM)	2	\$	\$
912811	Application Server License	3	\$	\$
912812	PBX Access License	2	\$	\$
912814	Admin Interface Module (AIM)	1	\$	\$
P10008	License to Connect Non-Intrado Recording Device	1	\$	\$
C10036	Power Cord Cable with A/C twist lock connector	1	\$	\$
912716/24	Cisco C2960X-24T5-L 24 port switch (without stacking module)	2	\$	\$
912716/5	Cisco Stacking module for C2960-X	2	\$	\$
	A9-1-1 Connect	1	\$	\$
911509	A9-1-1 Call Handling Accessories	2	\$	\$
911553	A9C HDT (Headset I/F) Module	2	\$	\$
911554	A9C MTI (Misc Tel I/F) Module	2	\$	\$
911555	A9C TPR (Third-Party Radio I/F) Module	2	\$	\$
911501	A9C Desk Mounting Kit	2	\$	\$
911510-1	A9C Bundle - Dual Core	2	\$	\$
914121/1	IWS Workstation - Software and Configuration	2	\$	\$
	Power 911	1	\$	\$
913100/BAK	Power 911 Backup License	2	\$	\$
913152	Power 911 Add-On Recorder for Radio (ITRR)	3	\$	\$
913202	Power 911 Server Access License	2	\$	\$
913152/CD	ITRR Media Kit	1	\$	\$
	IWS Workstations	1	\$	\$
914600/3	IWS External Programmable Keypad - 24 Buttons	3	\$	\$
	Laptops	1	\$	\$
914114/BAK	Portable 9-1-1 Position (Back-up)	1	\$	\$
	Object Server Hardware	1	\$	\$
914962	IWS Server RACK - Type A	1	\$	\$
914121/3	IWS Object Server - Underlying Software	1	\$	\$
	Common Hardware	1	\$	\$
914956	1U Keyboard/LCD/Trackball/8-Port KVM	1	\$	\$
P10114/R	Backup Disk Solution for Windows Server (Rack-Mount)	1	\$	\$
	Peripheral Hardware	1	\$	\$
912645	ACDR & Maintenance Printers	1	\$	\$
	Network Equipment	1	\$	\$
912810/E	Quad Ethernet Switch WIC	2	\$	\$
912810/R	1921 Integrated Services Router	2	\$	\$
	Staging	1	\$	\$
950852	Front Room Equipment Staging - Per Position	3	\$	\$
950853	Back Room Equipment Staging - Per Cabinet	1	\$	\$
	Installation	1	\$	\$
950104	Intrado Professional Services (per Day)	5	\$	\$
960575	Living Expense per Day per Person	7	\$	\$
960580	Travel Fee per Person	1	\$	\$
	System Architect	1	\$	\$
950516	Network Provisioning Services per day	4	\$	\$
960580	Travel Fee per Person	1	\$	\$
960575	Living Expense per Day per Person	6	\$	\$
	ITS Installation	1	\$	\$
950104	Intrado Professional Services (per Day)	1	\$	\$
960575	Living Expense per Day per Person	3	\$	\$
960580	Travel Fee per Person	1	\$	\$
	Project Management Services	1	\$	\$
950510	Project Management Services	1	\$	\$
	TXT29-1-1	1	\$	\$
VSupport	ITS Service (Monthly)	1	\$	\$
ITXTOTF2	TXT29-1-1 Integrated with Power 911 One-time-fee per PSAP-Target	1	\$	\$
P10063	ITS Equipment	1	\$	\$
	DISCOUNT	1	\$	\$
DISCOUNT SVC	Service Discount	1	\$	\$
	Maintenance Services	1	\$	\$
Model#	Description	1	\$	\$
VSupport	Software Sub Service - 1 Year/Position - Back Up Position	1	\$	\$
VSupport	Soft Protect and Remote Tech Support - 1 Year/Pos - Back Up Pos	1	\$	\$

Prices do not include charges for taxes, duties, tariffs, telecommunication services, or professional services such as Centurion Maintenance or Managed Network Services.

Item	Part Number	Quantity	Unit Price	Total Price
GP951-94	Netclock GPS Command Center Package-Single Network	1	\$ 7,120.25	7,120.25
TBD P10084	Misc. Cables and Parts Misc Cables and Parts AS 222WM Nec 22" Single Touch LED Touch Screen	1 3	\$ 1,265.82 \$ 1,987.34	1,265.82 5,962.02
<b>Parts</b>				<b>\$ 138,281.52</b>
<b>Miscellaneous</b>				<b>\$</b>
<b>Shipping</b>				<b>\$ 1,938.61</b>
<b>Parts Subtotal</b>				<b>\$ 140,220.13</b>
<b>Labor</b>				<b>\$ 10,300.00</b>
<b>Vendor Support (See Vsupport Tab for Details)</b>				<b>\$ 14,520.00</b>
<b>TOTAL PRICE</b>				<b>\$ 165,040.13</b>

All Products listed on this Quote are governed by the Standard Terms and Conditions for Communications Services and the Equipment Sales Product Annex, both posted to [http://about.centurylink.com/legal/rates\\_conditions.html](http://about.centurylink.com/legal/rates_conditions.html)





CenturyLink

## Valid Until

July 5, 2016

Contract Term: 36 Months

Customer Legal Name: Perquimans County Communications

Customer Billing Name: Perquimans County Communications

PO BOX 45

**HERTFORD**

NC , 27944-0045

Quote-Build #: 16-003845-NIBS

**See Vendor Support Tab for additional Support Costs**

All Services listed on this Quote are governed by the Standard Terms and Conditions for Communications Services and the CenturyLink™ CenturyLink Maintenance Service Annex, both posted to [http://about.centurylink.com/legal/rates\\_conditions.html](http://about.centurylink.com/legal/rates_conditions.html).

## Engineer Selected

Page 1 of 2







## Price Sheet Vendor Support

Customer: Perquimans County Communications  
PO BOX 45  
HERTFORD  
NC  
27944-0045  
Quote-Build#: 16-003845-NIBS

Pricing is Valid Until:

July 5, 2016

Description of Work  
to be Performed:

Equipment pricing shown is based upon direct sale accompanied by new Centurion Maintenance contract on same.

Part Number	Description	Quantity	Type	(Only if MRR)		Sale Price	
				Term Years	MRR	Unit Price	Extended Price
P10064	ITS Service (Monthly)	60	NRR	-	\$ -	\$ 200.00	\$ 12,000.00
950999/SUB1-BU	Software Sub Service - 1 Year/Position - Back Up Position	9	NRR	-	\$ -	\$ 200.00	\$ 1,800.00
950999/PRO1-BU	Soft Protect and Remote Tech Support - 1 Year/Pos - Back Up Pos	9	NRR	-	\$ -	\$ 80.00	\$ 720.00
-	-	-	NRR	-	\$ -	\$ -	\$ -
-	-	-	NRR	-	\$ -	\$ -	\$ -
-	-	-	NRR	-	\$ -	\$ -	\$ -
-	-	-	NRR	-	\$ -	\$ -	\$ -
-	-	-	NRR	-	\$ -	\$ -	\$ -
-	-	-	NRR	-	\$ -	\$ -	\$ -
TOTAL Annual MRR .....						\$ -	
TOTAL Term MRR .....						\$ -	
TOTAL PRICE NRR .....							\$ 14,520.00

All Services listed on this Quote are governed by the Standard Terms and Conditions for Communications Services and the CenturyLink® Centurion Maintenance Service Annex, both posted to [http://about.centurylink.com/legal/rates\\_conditions.html](http://about.centurylink.com/legal/rates_conditions.html).

<b>Customer Notes / Project Description</b>

Notes

## Jonathan

---

**From:** Robinson, Rob <Rob.Robinson@centurylink.com>  
**Sent:** Monday, May 16, 2016 8:39 AM  
**To:** Jonathan; 'Palmer, Cord'  
**Cc:** Winstead, Paul W  
**Subject:** RE: letter and other questions

I also show a onetime install fee of \$48.

Century Link  
10MB  
\$48 one time fee  
\$1,431 per month

---

**From:** Jonathan [mailto:jnixon@perquimanscountync.gov]  
**Sent:** Monday, May 16, 2016 8:12 AM  
**To:** Robinson, Rob; 'Palmer, Cord'  
**Cc:** Winstead, Paul W  
**Subject:** RE: letter and other questions

At this point I will add the entire \$1431 per month. Will there be any up-front cost for this line?

Thanks Rob,

**Jonathan A. Nixon**, Director (ES-1)  
**Perquimans County Emergency Services**  
911 Communications – EMS – Emergency Management  
159 Creek Drive - PO Box 563  
Hertford, NC 27944  
252-426-5646 or 252-426-7029 Office  
252-331-9817 Cell  
252-426-1875 Fax

---

**From:** Robinson, Rob [mailto:Rob.Robinson@centurylink.com]  
**Sent:** Monday, May 16, 2016 8:08 AM  
**To:** Jonathan; Palmer, Cord  
**Cc:** Winstead, Paul W  
**Subject:** RE: letter and other questions

Jonathan,

Paul is waiting on the engineers at Intrado to confirm that you guys can share that single pipe and exactly how much bandwidth you will need for your side. We know what Airbus recommends for Cord's portion. I know he has had a couple email conversations with them but do not know if he has been given the final approval or information yet.

However, when we met several months back, I provided a verbal quote to both you and Cord for a single 10MB pipe for your portion. That price was \$1,431.00 per month. This number should be a good budgetary number for your board



meeting tonight. The only concern I have at this point is I do not think our company will be able to bill you both separately for your individual portions. Your counties may have to split the cost of internally if you go this route.

I am sorry, but this is the best I can offer until Intrado approves the configuration and the exact bandwidth.

Rob

---

**From:** Jonathan [<mailto:jnixon@perquimanscountync.gov>]

**Sent:** Saturday, May 14, 2016 7:56 AM

**To:** Palmer, Cord

**Cc:** Robinson, Rob

**Subject:** Re: letter and other questions

Ron - I am taking the overall backup plan to our Commissioners MONDAY NIGHT and need a budget figure for this cost.

Thanks,

Jonathan A. Nixon, Director (ES-1)  
Perquimans County Emergency Services  
911 Communications - EMS - Emergency Management  
159 Creek Dr. - PO Box 563  
Hertford, NC 27944  
252-426-5646 or 252-426-7029 Office  
252-331-9817 Cell  
252-426-1875 Fax

On May 13, 2016, at 11:07 AM, Palmer, Cord <[cord.palmer@chowanc.gov](mailto:cord.palmer@chowanc.gov)> wrote:

Rob,

We do not feel comfortable writing a letter stating exclusivity to centurylink.

We need some firm numbers for the recurring cost and the installation for A911. Tina Bone states this can be estimated based on your selling this to another PSAP. When I submit the cost in the backup plan I will state that this is an estimate and quotes were not available.

Jonathan and I are working together this morning. We need a cost and bandwidth number for the direct fiber cost for the phone equipment connection.

Please reply to this email with cost estimates as soon as possible.

Cordell Palmer  
Chowan County Sheriff's Office  
Chowan County Emergency Management  
Chowan Central Communications Director  
PO Box 78  
305 West Freemason St.  
Edenton, NC 27932  
252-482-8484  
252-482-5813 fax  
cord.palmer at [chowan.nc.gov](mailto:cord.palmer@chowan.nc.gov)

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Email correspondence to and from this address may be subject to the North Carolina Public Records Law and may be disclosed to third parties by an authorized state official.

This communication is the property of CenturyLink and may contain confidential or privileged information. Unauthorized use of this communication is strictly prohibited and may be unlawful. If you have received this communication in error, please immediately notify the sender by reply e-mail and destroy all copies of the communication and any attachments.

This communication is the property of CenturyLink and may contain confidential or privileged information. Unauthorized use of this communication is strictly prohibited and may be unlawful. If you have received this communication in error, please immediately notify the sender by reply e-mail and destroy all copies of the communication and any attachments.



Customer Legal Name:	Perquimans County Communications
Customer Billing Name:	Perquimans County Communications
Site Address 1:	159 Creek Drive
Site Address 2:	
City:	HERTFORD
State:	NC
Zip:	27944-0045

Contact Name:	Jonathan Nixon
Phone Number:	252-426-5646
E-Mail:	jnixon@perquimanscountync.gov

Account Manager / Sales ID:	Robert Robinson
Account Manager E-mail:	robert.l.robinson1@centurylink.com
Sales Engineer Name:	Paul Winstead
Sales Engineer E-Mail:	Paul.W.Winstead@centurylink.com

Quote Number:	15-029094
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\$10,925.77  
\$3,184.43  

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\$14,110.20





JCW Pricing Tool 6.01

Quote Number# 15-029094

Account Manager: Robert Robinson

Customer Legal Name: Perquimans County Communications				Centurion Maintenance			
Customer Billing Name: Perquimans County Communications				Coverage: <u>Extended</u>			
Customer Address: 159 Creek Drive , HERTFORD, NC 27944-0045				Contract Term: 36			
Date Prepared: January 8, 2016							
Quote Expires: March 8, 2016							
Quote Number: 15-029094							
QTY	Item	Total Non-Recurring Price	Annual Price - Year 1	Annual Price - Year 2+	Total Annual Price - Y1	Total Annual Price - Y2+	Total Term Price
	CPE - (Includes Shipping and Misc costs)	\$ 9,895.77			\$ 1,061.48	\$ 2,122.95	\$ 3,184.43
	Labor	\$ 1,030.00					
	On-Site Tech		\$ -	\$ -			
	Vendor Support	\$ -	\$ -	\$ -			
Total Prices		\$ 10,925.77	\$ -	\$ -	\$ 1,061.48	\$ 2,122.95	\$ 3,184.43

Prices shown on this page represent recurring and nonrecurring charges for items as described. These prices do not include recurring or nonrecurring charges for taxes, duties, tariffs, or telecommunication services.

Valid Until March 8, 2016

**Description of Work to be Performed:**

*Equipment pricing shown is based upon direct sale accompanied by new Centurion Maintenance contract on same.*

[illegible]

All Products listed on this Quote are governed by the Standard Terms and Conditions for Communications Services and the Equipment Sales Product Annex, both posted to [http://about.centurylink.com/legal/rates\\_conditions.html](http://about.centurylink.com/legal/rates_conditions.html)



CenturyLink Type	Extended
months	36
Hide show best value	TRUE
Min active	FALSE



**CENTURYLINK**  
CenturyLink Centurion Maintenance

Valid Until **March 8, 2016**  
Contract Term: 36 Months

All Services listed on this Quote are governed by the Standard Terms and Conditions for Communications Services and the CenturyLink™ Centurion Maintenance Service Annex, both posted to [http://about.centurylink.com/legal/rates\\_conditions.html](http://about.centurylink.com/legal/rates_conditions.html).

Customer Legal Name: Perquimans County Communications  
Customer Billing Name: Perquimans County Communications  
159 Creek Drive  
HERTFORD  
NC, 27944-0045  
Quote-Build #: 15-029094-NIBS

Engineer Selected

Part Number	Description	Quantity	Annual Extended Rate		Total				
			Unit						
94831	NetClock/GPS Time Server-master clock	1	\$	-	\$	-			
-Opt 05	OCXO Oscillator for GPS Back-up	1	\$	1,061.48	\$	1,061.48			
-Opt 16	Multi-port Network Card - 3 x 10/100/1000 BaseT	1	\$	-	\$	-			
TV400W	TimeView 400 Digital Wired Display	2	\$	-	\$	-			
8230	GPS/GLONASS Antenna Outdoor	1	\$	-	\$	-			
000-000	Miscellaneous Cables	1	\$	-	\$	-			
SUBTOTAL: ANNUAL RECURRING EQUIPMENT COVERAGE.....					\$	1,061.48			
SUBTOTAL: ANNUAL ON SITE TECHNICIAN COVERAGE.....					\$	-			
TOTAL ANNUAL RECURRING COVERAGE CHARGES .....					\$	1,061.48			
TOTAL <u>CONTRACT TERM</u> RECURRING COVERAGE CHARGES .....					\$	3,184.44			

## Customer Notes / Project Description

This quote provides for a new GPS time server/master clock, with a GPS Backup option, and a multiport network card that will provide 3 additional ports to add other systems that need to be clocked. We will also be replacing the outdoor antenna since it has some age on it. Installation will be done by Centurylink and I have included 3 years of Centurion maintenance on all items.

Notes

**QUOTATION**

<b>Proposed Work:</b>	Adding 23 analog channels to existing 32 channel NICE NRX. Adding NAS Server for backup archiving and NiceCall Focus III legacy data. Dell 1U NAS, Server 2012, 8GB RAM, RAID 5 3x2TB hard drives, Dual Power Supplies
<b>Quotation Date:</b>	April 29, 2016
<b>Prepared By:</b>	Todd Williams

**Prepared For:** Perquimans County EMS**Attn:** Jonathan Nixon**Address:** 159 Creek Dr.  
Hertford NC 27944**Phone:** 252-331-9817[jnixon@perquimansnc.gov](mailto:jnixon@perquimansnc.gov)**Install Location Contact:**  
same**Phone:****Email:**

Part Number	h/w,s/w lic	Quantity	Description	Price	Total
<b>System Specifications</b>					
EOS-NAS	h/w,s/w	1	Dell Power Vault NX NAS, 2012 Server, RAID 5, 6 TB Hard Drives, 8GB RAM, Dual Power Supply Configuration,	\$3,776.00	\$3,776.00
PS-NR-ANALOG-24CH	h/w	1	Analog board package for up to 24 channels	\$2,000.00	\$2,000.00
PS-INFRM-PROF-1CH-UPG-20	lic	23	Audio Recording License, including Inform Professional application support	\$440.00	\$10,120.00
T3AMS1MS1MS9S-10FT	hw	1	25 Pair Amphenol Cable, 10 ft	\$140.00	\$140.00
PS-MAINT-NICE-IND-ST		1	NICE Software Assurance First Year	\$840.00	\$840.00
<b>Sub Total:</b>					<b>\$16,876.00</b>
<b>Professional Services</b>					
Install	svc	1	Installation during normal business hours	\$2,278.00	\$2,278.00
APP	svc	1	Extended one year warranty (8x5)	1,265.00	\$1,265.00
<b>Services Sub Total:</b>					<b>\$3,543.00</b>
				<b>Shipping:</b>	\$100.00
<b>QUOTATION TOTAL:</b>					<b>\$20,519.00</b>

By signing below, you are authorizing purchase for materials and/or services quoted herein. Your signature authorizes Edge One Solutions, Inc. to proceed with your order and invoice accordingly. Please provide a copy of your company's purchase order along with the signed quotation and fax to 919-554-9257 or email to [twilliams@edgesolutions.com](mailto:twilliams@edgesolutions.com).

**Terms:**

Payment Terms: Upon Installation

Delivery: CFR - Factory

Validity of quotation: 30 Days

Estimated Delivery: 4 Weeks ARO

(Delivery is contingent upon stock availability at the time of order placement)

Approved by: \_\_\_\_\_

Approved Date: \_\_\_\_\_

Purchase Order Number \_\_\_\_\_





**SOUTHERN SOFTWARE, INC.**  
an employee-owned company

**Agency:** **Perquimans County Emergency Services, NC**

**Contact:** **Jonathan Nixon**

**Date:** **5/12/2016**

### **ONSITE TECHNICIAN**

**ONSITE TECHNICIAN**

ONSITE TECHNICIAN FOR CAD SERVER MOVE

**TOTAL INVESTMENT** (STATE TAX AND SHIPPING NOT INCLUDED)

**\$2,850.00**

**CUSTOMER'S SIGNATURE** \_\_\_\_\_ **DATE** \_\_\_\_\_

**Please sign this document and return it to us by fax or mail. When the document is signed and returned to Southern Software, we will begin processing your order.**

**Proposal of software is valid for (60) days from date of proposal.**

**Southern Software will install its software products only on computer configurations compatible with these products. Hardware specifications are available upon request.**

**Contact information for Public Safety Representative:**

**Mike Moody**  
**Southern Software**  
**150 Perry Drive**  
**Southern Pines, NC 28387**

**Business:** **800.842.8190**  
**Mobile:** **910.603.3481**  
**Fax:** **910.695.0251**  
**E-Mail** **mmoody@southernsoftware.com**



**SOUTHERN SOFTWARE, INC.**  
an employee-owned company

**Agency:** Perquimans County Emergency Services, NC  
**Contact:** Jonathan Nixon  
**Date:** 5/5/2016

## HARDWARE

Qty

<b>Laptop</b>	<b>Dell Mobile Precision Workstations 3510 XCTO</b>	<b>1</b>
<b>Operating System</b>	Windows 10 Pro 64bit English, French, Spanish	
<b>Mobile Precision 7710</b>	Mobile Precision7710 XCTO BASE	
<b>Operating System(s)</b>	Windows 10 Pro 64bit English, French, Spanish	
<b>Processor</b>	Intel® Core™ i7-6820HQ (Quad Core 2.70GHz, 3.60GHz Turbo, 8MB 45W, w/Intel HD Graphics 530)	
<b>Chassis Options</b>	Intel Core i7-6820HQ with Smart Card and Thunderbolt 3	
<b>Non-Microsoft Application Software</b>	Windows 10	
<b>Office Productivity Software</b>	Microsoft Office Professional 2016	
<b>Video Card</b>	Nvidia® Quadro® M3000M w/4GB GDDR5	
<b>LCD</b>	17.3" UltraSharp™ FHD IPS (1920x1080) Wide View Anti-Glare LED-backlit, with microphone only	
<b>Memory</b>	32GB, DDR4-2133MHz SDRAM, 2 DIMMS, Non-ECC	
<b>Hard Drive</b>	1TB 2.5 inch 7200 rpm SATA Hard Drive	
<b>Wireless</b>	Intel® Dual-Band Wireless-AC 8260 Wi-Fi 4.1 Wireless Card (2x2) W/Bluetooth	
<b>Driver</b>	Intel® Dual-Band Wireless-AC 8260 Wi-Fi + BT 4.1 Wireless Driver (2x2)	
<b>Keyboard</b>	Internal Dual Pointing Keyboard, English	
<b>Primary Battery</b>	6-cell (72Wh) Lithium Ion battery with ExpressCharge™	
<b>Power Supply</b>	240W AC Adapter	
<b>Power Cord</b>	US Power Cord	
<b>Security Options</b>	Smartcard Reader	
<b>Mouse</b>	Dell MS116 USB Optical Mouse	
<b>Operating System Recovery Options</b>	Windows 10 OS Recovery 64bit – DVD	
<b>Placemat</b>	Quick Reference Guide for Windows 10	
<b>Service</b>	3 Years ProSupport Plus with Next Business Day Onsite Service	

**NOTE: ASSUMES LAPTOP WILL BE SHIPPED TO PERQUIMANS COUNTY. IF ONSITE INSTALLATION IS NECESSARY PLEASE REQUEST AN UPDATED PROPOSAL.**

**TOTAL INVESTMENT** (STATE TAX AND SHIPPING NOT INCLUDED)

**\$4,110.00**

**PROPOSAL INCLUDES ONLY ITEMS LISTED ABOVE. IF ADDITIONAL HARDWARE IS NEEDED PLEASE REQUEST AN UPDATED PROPOSAL.**

**CUSTOMER'S SIGNATURE** \_\_\_\_\_ **DATE** \_\_\_\_\_

**Please sign this document and return it to us by fax or mail. When the document is signed and returned to Southern Software, we will begin processing your order.**

**Proposal of hardware is valid for (30) days from date of proposal.**

**Contact information for Public Safety Representative:**

**Mike Moody**  
**Southern Software**  
**150 Perry Drive**  
**Southern Pines, NC 28387**

**Business:** 800.842.8190  
**Mobile:** 910.603.3481  
**Fax:** 910.695.0251  
**E-Mail:** mmoody@southernsoftware.com





911 Allowable

**Agency:** Perquimans County Emergency Services, NC

**Contact:** Jonathan A. Nixon, Director

**Date:** 5/5/2016

MOBILE DATA INFORMATION SYSTEM (MDIS)		Qty	
MDIS Server Software		1	
MDIS License (without NCIC/State Database Query)		6	
	(Concurrent Licenses; Assumes 6 Installed)		
MDIS License (in house)	Concurrent	1	FREE
<b>Total Software:</b>			<b>\$9,600.00</b>

## PROJECT MANAGEMENT

**Project Management Fee** - including Installation, Training and Project Management

**Total Project Management: \$3,117.00**

## YEARLY SUPPORT

MDIS Support	24/7 SUPPORT	1	
<b>Total Support:</b>			<b>\$2,117.00</b>

<b>TOTAL INVESTMENT</b> (STATE TAX AND SHIPPING NOT INCLUDED)	<b>\$14,834.00</b>
---	--------------------

**NOTE: MICROSOFT® SQL SERVER 2008™ R2 IS REQUIRED.**

Wireless modems ("Air Cards") are required for each mobile unit (providers include Southern Linc, Sprint, Nextel, Verizon, Alltel, US Cellular, etc.). Wireless service plans are required for each wireless modem and are provided by Agency. ( \$35-75/month/user typical)

Cisco ASA 5505 Router may be required the State. (Approximate cost - \$ 500 - to be provided and configured by the Agency)

A VPN Router in addition to the Cisco ASA 5505 Router is required to secure access to the mobile units if RMS is being run in addition to MDIS (NetMotion preferred). (All connections and fees to Agency LAN including hardware provided by Agency. 100MB Ethernet LAN Required.)

Agency must configure all networking for mobile and CAD workstations to ping servers before installation begins. Use a static IP for private address.

Secure High Speed Internet Access (VPN, Remote Desktop, etc) to servers for support provided by Agency.

Proposal of software is valid for (60) days from date of proposal.

Proposal of hardware is valid for (30) days from date of proposal.

Software includes (30) days of free support, including all updates.

Management fees include training, installation, and project management.

Southern Software will install its software products only on computer configurations compatible with these products. Hardware specifications are available upon request.



NETWORK AND PC SALES, SERVICE & INTEGRATION

201 E. Elizabeth Street • Elizabeth City, NC 27909

Telephone: 252-338-9876

[www.practicalcomputing.biz](http://www.practicalcomputing.biz)

May 16, 2016

To Whom It May Concern:

Practical Computing proposes to assist Perquimans County 911 Communications with IT support and project management for implementation of their backup PSAP with Chowan County. Experience from past projects suggests a budget of \$3750 will be satisfactory to complete the job. Below is a list of responsibilities for Perquimans County 911 Communications and Practical Computing.

Practical Computing will provide the following:

- Represent the county to vendors involved in the project as it pertains to the 911 phone system, CAD, and the call recorders and any replication between the sites.
- Attend conference calls regarding the above topics.
- Plan connectivity between the main and backup 911 center.
- Provide onsite support as necessary to facilitate these vendors
- Setup virtual remote workstations for CAD, hosted on the backup site server.
- Implement backup system.

Perquimans County 911 Communications will provide the following:

- Access to all Perquimans 911 Equipment
- Coordinated access to Chowan 911 site
- Attend conference calls when necessary

Our strategy is to replicate our CAD server using a product called Neverfail (Already purchased). The workstations will be virtualized desktops and will be implemented using Microsoft's Hyper-V technology. This will reduce the total cost of ownership and will provide an autonomous system at the remote end, eliminating the potential for conflicting software and management functions between both counties.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jesse Stallings".

Jesse Stallings  
Lead Technician  
Practical Computing



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<div>Add Another Product</div>				

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Price

Products (1)

\$4746.00

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\$69

Order Total

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# Equipment Proposal

## Motorola

2 Way Radio  
Authorized Dealer

## Gately Communication, Co.

320 West Lake Drive  
Kill Devil Hills, N.C. 27948  
(252) 441-2066 FAX (252) 441-0913  
Submitted By: **Warren S. Bell**

### Proposal For:

Perquimans County Emergency Services  
Atten: Jonathan Nixon  
Ph#: (252) 331-9817

### Project Reference:

Perquimans County 911 Upgrade / Chowan 911 back-up

## SOW

- Set-up / Install**
- >Furnish and install New (5th position) MCC-5500 console on desk at Admin Workstation. Interface with phone system. Includes new 22" Touch Screen Monitor
  - >Install new CES into existing rack in D-Marc room.
  - >Furnish and install new 7 ft equipment rack in D-marc room.
  - >Shift existing CSDM KVM to new rack for ease of use.
  - >Replace existing server with new HP workstation. Load software.
  - >Relocate equipment as needed to make room for Chowan County Control Stations.
  - >Relocate existing Perquimans County Mutual Aid Console to equipment rack and interface with existing control Stations.
  - >Furnish and install (4) new DAP modules with additional (16 channel) capacity and licenses.(8 analog and 8 Astro).
  - >Furnish and install (4) new operator workstations to replace old MCC-5500 workstations and bring all positions up to latest revision.
  - >Replace existing (4) monitors with 22" Black Touch Screen Monitors.
  - >Furnish and install Equipment rack in D-Marc room at Chowan 911
  - >Furnish and install (6) 800 Mhz Control Stations in equipment rack at Chowan 911
  - >Furnish and install Equipment rack in new shed at base of proposed tower.(Chowan 911)
  - >Furnish and install (5) VHF Control Stations in equipment rack. (Chowan Equipment shed)
  - >Ground all equipment / rack
  - >Install (6) 800 MHZ Yagi antennas on existing pole at 911.
  - >Install (5) VHF Yagi antenna systems on new tower at Chowan 911.
  - >Test all (11) Control Stations for proper operation with mobile microphone connected.
- Programming Integration**
- >Program all equipment and test for proper operation.
  - >Once Chowan County equipment and antenna systems are installed and working, interface Chowans Control Stations to MCC-5500 consoles and reprogram consoles with new Chowan channels. Segregate profiles for ease of use. Test for proper operation.
  - >Includes programming, installation, level adjustments and performance checks of all new Control Stations and console. Proper grounding of antenna systems and console equipment will be performed. Turn key install of 5th console position along with upgrade & replacement of existing (4) console work stations/monitors and CSDM server.

**Note:** See Attached Equipment List

TOTAL Equipment	\$	105,554.11
TECH Labor / Services / Tower Labor	\$	25,700.00
Shipping	\$	2,300.00
FCC License	\$	2,000.00
TAX	\$	9,149.90

**GRAND TOTAL \$ 144,704.01**

**Note:** FCC license is for (5) VHF Control Stations at Chowan 911 (800 Mhz antennas under 20 ft rule)

**Note:** Materials billed upon receipt.

**Note:** Any applicable taxes/shipping not listed individually in the quote will be in addition to the quote.

**Note:** This quote is "Confidential Restricted"

The design, technical, and cost information furnished with this proposal is proprietary information of Gately Communication Company. (Gately). Such information is submitted with the restriction that it is to be used only for the evaluation of the proposal, and is not to be disclosed publicly or in any manner to anyone other than those required to evaluate the proposal, without the express written permission of Gately Communication Company, Inc."



# EQUIPMENT LIST

## Perquimans County 911 Facility (Main)

ITEM	QTY	DESCRIPTION
1	1	MCC-5500 CONSOLE ELECTRONIC SHELF (CES) II
2	1	T3 CABLE 2 FEET
3	1	MCC 5500 OP CAB II / PS CALIFORNIA COMPLIANT
3a	1	Add 100' CAB/CES Cable
4	1	MCC SERIES DESKTOP GOOSENECK MICROPHONE
5	2	MCC SERIES HEADSET JACK
6	1	FOOT, SWITCH TRADITIONAL
7	2	MCC SERIES DESKTOP SPEAKER
8	4	DAP II FOR ANALOG, SB9600, ASTRO INTERFACES, INCL 2 ANALOG LICENSES
8a	4	ADD: 2 DIGITAL CHANNELS WITH LICENSE R2.5
9	6	COMPUTER, Z440 WORKSTATION WINDOWS 7 (5 for workstations & 1 for server)
10	1	19" Rack mount tray for Workstation (Server)
11	6	IA TRANSPARENT CD - (USE WITH MCC 5500 WINDOW 7 workstations)
12	1	DUAL IRR SW USB HASP WITH LICENSE (V46)
13	1	SOUND BLASTER AUDIGY RX SOUND CARD
14	1	BASE WITH PTT SWITCH
15	1	SUPRA MONAURAL HEADSET TOP
16	5	TELCO 50 FT 50 WAY CABLE, 180 DEG MALE - 90 DEG MALE , .35 INCH SCREW Note: Replace 3 existing intermittent cables along with 2 cables for new punch blocks
17	2	Punch Blocks
18	5	ELO 2200L 22" Black Touch Screen Monitors Note: 1 for new position and 4 to replace exist monitors
19	Note:	UPS for workstation (Not needed) Building has back-up UPS
20	1	Hardware, connectors, surge suppressor, etc
21	1	Seven and a half foot Equipment Rack
22	2	SPD, TYPE 3, 120V RACK MOUNT, 15A PLUG-IN W/ (6) 15A NEMA 5-15 OUTLETS
23	1	SPD, RJ-48 8 PIN, 10/100 BASE T TSJ PROTECTS/PASSES ON ALL 8 PIN
24	1	Cable Management
25	1	Mounting hardware, ground cable and lugs
26	1	Rack Mount Ground bar 19"
27	1	19" Rack mount tray for existing XTL-5000 Consolette (Perquimans Mutual Aid)

## Chowan County 911 Facility (Back-up)

28	6	APX1500 7/800
28a	6	ADD: 3 YEAR SERVICE FROM THE START LITE
28b	6	ADD: PALM MICROPHONE
28c	6	ENH: SW P25 TRUNKING
28d	6	ADD: DASH MOUNT O2 WWM
28e	6	ADD: APX O2 CONTROL HEAD (Grey)
28f	6	ADD: APX CONTROL HEAD SOFTWARE
28g	6	ADD: NO RF ANTENNA NEEDED

28h	6	ADD: NO SPEAKER NEEDED
29	3	19" Rack mount tray
30	6	Tone Remote Adaptor
31	6	Radio Cable (Unterminated Ends)
32	3	Samlex Switching (30 amp) rack mt Power supply (19" rack holds 2 Power supplies)
33	3	Samlex Switching (30 Amp) Power supply (Mount in spare opening of 19" rackmount)
34	5	APX1500 VHF
34a	5	ADD: 3 YEAR SERVICE FROM THE START LITE
34b	5	ADD: PALM MICROPHONE
34c	5	ADD: DASH MOUNT O2 WWM
34d	5	ENH: LI P25 CONVENTIONAL
34e	5	ADD: APX O2 CONTROL HEAD (Grey)
34f	5	ADD: APX CONTROL HEAD SOFTWARE
34g	5	ADD: NO RF ANTENNA NEEDED
34h	5	ADD: NO SPEAKER NEEDED
35	3	19" Rack mount tray
36	5	Tone Remote Adaptor
37	5	Radio Cable (Unterminated Ends)
38	3	Samlex Switching (30 amp) rack mt Power supply (19" rack holds 2 Power supplies)
39	3	Samlex Switching (30 Amp) Power supply (Mount in spare opening of 19" rackmount)
40	1	Seven and a half foot Equipment Rack
41	2	SPD, TYPE 3, 120V RACK MOUNT, 15A PLUG-IN W/ (6) 15A NEMA 5-15 OUTLETS
42	1	SPD, RJ-48 8 PIN, 10/100 BASE T TSJ PROTECTS/PASSES ON ALL 8 PIN
43	1	Cable Management
44	1	Mounting hardware, ground cable and lugs
45	1	Rack Mount Ground bar 19"
46	2	CABLE TIES NYLON (1 EA= 1 BAG = 50 TIES)
47	6	800 Mhz. Yagi antennas
48	600	LMR-400 coax (per ft)
49	12	N-male crimp connectors (LMR-400 type)
50	6	Polyphaser lightning arrestors (N-fem to N-fem)
51	6	Adaptor Cable 8 ft(Mini UHF male to N male)
52	1	Entry Boot (4 hole LMR-400 type)
53	4	weatherproofing seal kits
54	1	Seven and a half foot Equipment Rack
55	2	SPD, TYPE 3, 120V RACK MOUNT, 15A PLUG-IN W/ (6) 15A NEMA 5-15 OUTLETS
56	1	SPD, RJ-48 8 PIN, 10/100 BASE T TSJ PROTECTS/PASSES ON ALL 8 PIN
57	1	Cable Management
58	1	Mounting hardware, ground cable and lugs
59	1	Rack Mount Ground bar 19"
60	2	CABLE TIES NYLON (1 EA= 1 BAG = 50 TIES)
61	5	VHF Yagi antennas (Laird Y1505)(150-174 Mhz) (Heavy Duty)
62	625	LDF4-50A CABLE: 1/2" LDF HELIAX POLY JKT PER FOOT (5 antenna systems)
63	10	L4TNM-PSA TYPE N MALE PS FOR 1/2 IN CABLE (5 antenna systems)
64	5	1/2" Hoist grips
65	20	1/2" snap in hangers
66	5	Polyphaser lightning arrestors (N-fem to N-fem)
67	5	Adaptor Cable 8 ft(Mini UHF male to N male)
68	1	Hardware, brackets, connectors, surge suppressor, etc



# Price

Communications Inc.

New Bern, N.C.

**252-670-0135**

Service  
inspections

*Complete Tower Service*

installation  
maintenance

**PROPOSAL FOR:**

Perquimans County  
PO Box 45  
Hertford, N.C. 27944

**PRICE COMMUNICATIONS, INC**

1881 Acorn Drive  
New Bern, NC 28562  
(252) 670- 0135

M/F 911 SS Tower

Proposal # 511162

Item	Quan	Model Number		UNIT PRICE	TOTAL
1	1	SS100	Supply and erect (1) 100ft Self-supporting galvanized tower complete with all necessary hardware, climbing ladder, fall safety kit, waveguide ladder, 10 ft ice bridge, concrete imbedables, grounding system, concrete foundation, engineering drawings and freight charges.		\$66,220.00
			We feel this price to be a worst case senerio, no soil study or exact location has been provided. These prices are budgetary only and may change dependant on location and soil analysis.		

Terms: Net 30 days

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

Contact: \_\_\_\_\_

Other: \_\_\_\_\_

P.O. # \_\_\_\_\_

Date: 5-11-16

Accepted By: \_\_\_\_\_

Total Equipment Cost \_\_\_\_\_

Labor, Installation and Test \_\_\_\_\_

Tax \_\_\_\_\_

Total Purchase **\$66,220.00**

Frequency Coord./License \_\_\_\_\_

Freight \_\_\_\_\_

Less Down Payment \_\_\_\_\_

Amount Due \_\_\_\_\_

# Equipment Proposal

## Motorola

2 Way Radio  
Authorized Dealer

## Gately Communication, Co.

320 West Lake Drive  
Kill Devil Hills, N.C. 27948  
(252) 441-2066 FAX (252) 441-0913  
Submitted By: **Warren S. Bell**

### Proposal For:

Perquimans County Emergency Services  
Atten: Jonathan Nixon  
Ph#: (252) 331-9817

### Project Reference:

Perquimans County 911 / Chowan 911 (Microwave System)

## SOW

- Set-up / Install**
- >Perform Tower Load Study on Winfall Tower Site
  - >Submit FCC License for (2) Microwave Links
    - One link from Perquimans 911 Tower (Proposed) to Winfall Tower
    - Second link from Winfall Tower to Chowan 911 Tower (Proposed)
  - >Furnish and install new 7 ft equipment rack in building at Winfall Tower.
  - >Install Microwave dishes on associated towers and run cables to equipment rooms.
  - >Ground all microwave antenna systems
  - >Install indoor microwave equipment in associated buildings
  - >Furnish and install (3) switches in associated buildings
  - >Align dishes for optimal performance
  - >Program all equipment and run connectivity tests over both Microwave links.

**Note:** See Attached Equipment List

TOTAL Equipme	\$	40,171.78
TECH Labor / Services / Tower Labor	\$	9,425.00
Shipping	\$	2,500.00
Tower Load Study	\$	3,500.00
FCC License	\$	2,000.00
TAX	\$	<u>3,887.78</u>

**GRAND TOTAL \$ 61,484.56**

**Note:** Materials billed upon receipt.

**Note:** Any applicable taxes/shipping not listed individually in the quote will be in addition to the quote.

**Note:** This quote is "Confidential Restricted"

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# North Carolina 911 Board Grant Application

## General Information

**Project Title** Pitt County Communications backup PSAP

**Grant Fiscal Year - 2017**

**Project Director** Michael Taylor

**Project Contact** Sam Tyson

**Project Contact Title** Communications Manager

**Address** 1717 W 5th St

Greenville, NC 27834

**Phone** 252-902-2602

**Email** sam.tyson@pittcountync.gov

*Three types of grants are available, as described below. In the box following these descriptions, please select the Grant Type which most appropriately fits your request.*

- **Consolidation** - A consolidation project involves combining one or more PSAPs with a primary PSAP with an integrated management structure that serves the same populations and jurisdictions previously served by offering grant funding for both PSAP costs authorized under G.S. 143B-1406(e) and costs not authorized under G.S. 143B-1406(e) to include construction costs.
- **Individual PSAP Enhancement/Replacement** - the relocation costs of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.
- **Regional Initiative Enhancement/Replacement** - Regional initiatives are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such initiatives comprise projects involving two or more primary PSAPs or a primary PSAP with approved secondary PSAPs. Costs of relocation of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.

**Grant Type**    *Individual PSAP Enhancement/Replacement*

**PSAP Name**   *Pitt County Communications*

1.   ***Has the Revenue/Expenditure Report for FY15 been completed and approved by the NC 911 Board Fiscal staff for the applicant PSAP?***

YES

2.   ***Has the applicant PSAP submitted a plan and secured the means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP (backup plan)?***

YES

3.   ***If the answer to #2 above is yes, does the PSAP have the means to implement the plan before 7/1/16?***

NO

4.   ***If plan implementation will not occur before July 1, 2016, has an extension been requested?***

YES

---



# Project Description

*Required for all grant types, this should be a thorough, concise, and complete description of the proposed project.*

**5. Please outline project goals and objectives.**

Renovate Facility, contracts for equipment, order equipment, install equipment, test and then make operational.

**6. Please provide an implementation strategy and work plan, including a timeline.**

days, Computers & Monitors - 90 days, Phone system - 120 days, Radio - 180 days, Testing of all equipment, Go live - April 2017.

**7. Please identify the interface or compatibility between existing equipment and/or software and that which you intend to purchase.**

Telephone equipment will be same type as currently using, Radio equipment will be compatible with current system, and recording device will be of similar currently using.

## Statement of Need

*Required for all grant types, this statement should reference the relationship of the grant project to NCGS §143b-1407(b) and the current funding priorities established by the Grant Policy and Procedures and include evidence of any financial need.*

**8. Please indicate how your PSAP or group of PSAPs meets the statutory criterion of serving a rural or high cost area.**

Under NC Dept of Commerce we are at a Tier 2 level, and under the Rural Center we fall under the Regional cities or suburban area with a population density of between 250 and 750 people per square mile in our county.

**9. Please identify funding priorities, their impact on operational services, and consequences of not receiving funding.**

Telephone system, furniture, radio equipment, generator, and UPS for equipment needed for backup PSAP. Without the funding we will not be able to be compliant with the General Statutes requiring a backup PSAP to be in place and operational by 7/1/17.

**10. Please provide a copy of your PSAP's long-term or strategic technology plan and identify how the project fits within it.**

We do not have one.

**11. Please identify the likelihood of completing the project utilizing your 911 fund balance and the percentage of grant funding being requested in relation to total project costs.**

Budget approved for County includes additional cost, not fundable by 911 Funds. Using existing Fund balance and amount requested will leave us with approximately \$100,000 in fund balance to cover any unexpected items and keep from asking for more funds for project. We believe the project can be completed with the requested funds

## ***Regional Initiative Enhancement/Replacement Project***

Required for all Regional Initiative Enhancement/Replacement project types. Regional initiative enhancement/replacement projects are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such projects may involve two or more primary PSAPs

### **12. What is the relationship of participating PSAPs to the initiative? Provide MOUs between PSAPs identifying each participant PSAP's responsibilities to the project.**

Click or tap here to enter text.

### **13. Identify intended collaborative efforts between participating PSAPs.**

Click or tap here to enter text.

### **14. Identify how resource sharing will take place.**

Click or tap here to enter text.

### **15. Indicate how the initiative impacts the operational or strategic plans of the participating agencies.**

Click or tap here to enter text.

**NOTE:** The following section on “Consolidation Project Plan” is **ONLY** required if your type of grant is a “Consolidation”. If your project **IS NOT** a Consolidation, proceed to question # 23 to complete the grant application.

**16. Indicate how a consolidation would take place and improve service**

Click or tap here to enter text.

**17. Indicate how the consolidated PSAP should be organized and staffed**

Click or tap here to enter text.

**18. Indicate what services the consolidated PSAP should perform**

Click or tap here to enter text.

**19. Indicate how consolidated PSAP policies should be made and changed**

Click or tap here to enter text.

**20. Indicate how the consolidated PSAP should be funded exclusive of grant funding**

Click or tap here to enter text.

**21. Indicate what changes or improvements should be made to inter-communications among the local governments participating in the consolidation in order to better support operations.**

Click or tap here to enter text.

**22. Discuss sustainability of the consolidation project during the proposed term of the project, and for the foreseeable future.**

Click or tap here to enter text.

## FINANCIAL DATA

**23. Current 911 Fund Balance**

\$490,422.00 as of 6/3/16

**24. Amount Requested**

\$ 290,158.00

**25. Total Project Cost**

\$ 1,366,774.00

## Budget and Budget Narrative

***A budget and budget narrative must be supplied for all types of projects, as well as a copy of the applicant agency's approved FY 2016 PSAP budget.***

### **26. List planned expenditures**

Dispatch Console system, Telephone System, Recording System, Computer & monitors for CAD System access, UPS and Generator, Mini-split to keep equipment room cool, Fiber, optics & cabling for connectivity, Admin phones, desk, printer, computer & monitors, EMD cardsets and extra license for computer version, Console Furniture, Ethernet switches, A 911 Service, Maintenance cost for Radio, telephone, and EMD items. The A 911 cost will go up \$2471 per month above current cost.

### **27. Provide a budget narrative that briefly explains the reason for each requested budget item.**

Each item is needed to have a fully functional backup PSAP with the same capabilities of the Primary Center, not necessary same conveniences.

### **28. State how you will follow applicable procurement law, rules, and policies.**

The County employs two in-house, full time attorneys (County Attorney and Assistant County Attorney) who will review all procurement documents sent by County or received by County, and any contractual obligations entered into by the County to ensure that the County is complying with all applicable governmental procurement and contracting statutes, regulations, rules, and caselaw, which would include but not be limited to Chapter 143 of the North Carolina General Statutes.

### **29. If the project will have ongoing expenses, such as monthly recurring charges, describe plans and specific sources for future/long-term funding and demonstrate how the project will be sustained in the future without additional 911 Grant Program funding.**

Where the Fund balance will cover cost until it shows up in the next budget year cycle.

## Evaluation

***All applications must include evaluation information. The final report shall include an evaluation demonstrating that the equipment or services funded by the grant have been purchased, installed/implemented, and are performing as expected.***

**30. Explain how your evaluation will measure the achievement of the goals and objectives identified in the Project Description with a timeline for meeting short, intermediate, and long term goals.**

Each item will be tested for use, identifying pass or fail. Any failure will require additional to get it operational for use. Once all equipment is installed another test to make sure everything is working together as it should. Any problems will need to be corrected before go live date. Short is when installed, Intermediate will be once all equipment is installed and Log Term will be so that everything is operational and working as expected.

**31. Describe how evaluations will be conducted, including performance parameters which must be met in order to meet acceptance criteria.**

Testing will be done on each item and recorded. A person who is familiar with equipment will be there with installers to verify everything works as should after after installation is complete and ready to be tested, before signing off on work done and acceptance of equipment.

**32. Identify how data will be collected and presented**

Spreadsheet will be created for each item so can be marked Pass or Fail. Notes for corrective action needed.







## Account

Fund 290 ... EMERG TELE Acct 290-0-00-0000-000-391000-  
 Org 290 ... EMERG TELE Acct name FUND BALANCE-UNRESERVED  
 Object 391000 ... FB UNRESER Type Balance Sheet Status Active  
 Project ...

Active

Budget Rollup Group

MultiYr Fund

Account Notes

Detail

Months

Seg Find

Totals

User Defined Fields

NEEDS TO BE REVERSED IN FY 2015

669,644  
< 179,222 >  
 490,422

Est.  
 F/B @ 6/3/16

4 Year Comparison	Current Year	History						
W/FY 2016/12	Fiscal Year 2016		Fiscal Year 2015		Fiscal Year 2014		Fiscal Year 2017	
Original Budget	.00		.00		.00		.00	
Transfers In	.00		.00		.00		.00	
Transfers Out	.00		.00		.00		.00	
Revised Budget	.00		.00		.00		.00	
Actual (Memo)	-669,643.91		-669,643.91		-633,397.44		.00	
Encumbrances	.00		.00		.00		.00	
Regulations	.00						.00	
Available	.00		.00		.00		.00	
Percent used	.00		.00		.00		.00	



1 of 9



Attachments (0)

Display detail information for current account.

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COUNTY OF PITT  
YEAR TO DATE BUDGET REPORT

PD 12 JUNE FY2016

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FOR 2016 12

ACCOUNTS FOR:	ORIGINAL	REVISED	YTD ACTUAL	MTD ACTUAL	ENC/REQ	AVAILABLE	PCT
290 EMERGENCY TELEPHONE SYS FUND	APPROP	BUDGET				BUDGET	USED
-----							
292600 SALES & SERVICES							
-----							
292600 440131 911 COMBINED FEES	-503,405	-503,405	-419,474.90	.00	.00	-83,930.10	83.3%*
TOTAL SALES & SERVICES	-503,405	-503,405	-419,474.90	.00	.00	-83,930.10	83.3%
292700 INVESTMENT EARNINGS							
-----							
292700 449100 INTEREST	0	0	-2,963.63	.00	.00	2,963.63	100.0%
TOTAL INVESTMENT EARNINGS	0	0	-2,963.63	.00	.00	2,963.63	100.0%
292800 MISCELLANEOUS							
-----							
292800 481000 SALES OF MATERIALS &	0	0	-75.00	.00	.00	75.00	100.0%
TOTAL MISCELLANEOUS	0	0	-75.00	.00	.00	75.00	100.0%
292900 OTHER: DEBT & NON REV RECEIPTS							
-----							
292900 499100 FUND BALANCE APPROP	-88,523	-307,020	.00	.00	.00	-307,020.00	.0%*
TOTAL OTHER: DEBT & NON REV RECEI	-88,523	-307,020	.00	.00	.00	-307,020.00	.0%
294336 COMMUNICATIONS							
-----							
294336 529102 COMPUTER EQUIPMENT	9,500	9,500	9,088.32	.00	.00	411.68	95.7%
294336 531200 TRAVEL GENERAL	1,200	1,200	390.04	.00	.00	809.96	32.5%
294336 538000 MIS PROCESSING SERVI	265,586	265,586	168,895.55	65,553.46	.00	96,690.45	63.6%
294336 539500 TRAINING/CONFERENCE	9,950	9,950	7,168.00	.00	250.00	2,532.00	74.6%
294336 544000 SERVICE & MAINTENANC	22,021	22,021	60,597.78	4,901.77	.00	-38,576.78	275.2%*
294336 561000 CONTRACTED SERVICES	1,440	219,937	166,892.15	986.48	.00	53,044.85	75.9%
294336 568000 E911	162,390	162,390	103,756.85	.00	.00	58,633.15	63.9%
TOTAL COMMUNICATIONS	472,087	690,584	516,788.69	71,441.71	250.00	173,545.31	74.9%

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COUNTY OF PITT  
YEAR TO DATE BUDGET REPORT

PD 12 JUNE FY2016

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FOR 2016 12

ACCOUNTS FOR: 290	EMERGENCY TELEPHONE SYS FUND	ORIGINAL APPROP	REVISED BUDGET	YTD ACTUAL	MTD ACTUAL	ENC/REQ	AVAILABLE BUDGET	PCT USED
-----								
294337 PLANNING - E911								
-----								
294337	512000	SALARIES	44,029	44,029	41,035.78	.00	.00	2,993.22 93.2%
294337	512700	LONGEVITY	991	991	1,000.76	.00	.00	-9.76 101.0%*
294337	512701	SLPB/WELLNESS	1,016	1,016	1,026.42	.00	.00	-10.42 101.0%*
294337	518100	FICA TAXES	3,521	3,521	3,277.91	.00	.00	243.09 93.1%
294337	518200	RETIREMENT	3,107	3,107	2,902.53	.00	.00	204.47 93.4%
294337	518201	401 K RETIREMENT	2,378	2,378	2,220.04	.00	.00	157.96 93.4%
294337	518300	HOSPITALIZATION	7,152	7,152	6,886.00	.00	.00	266.00 96.3%
294337	518400	LIFE INSURANCE	96	96	84.15	.00	.00	11.85 87.7%
294337	518999	RESERVE FOR SAL INCR	551	551	.00	.00	.00	551.00 .0%
294337	538000	MIS PROCESSING SERVI	57,000	57,000	26,513.65	8,373.72	.00	30,486.35 46.5%
TOTAL PLANNING - E911			119,841	119,841	84,947.24	8,373.72	.00	34,893.76 70.9%
TOTAL EMERGENCY TELEPHONE SYS FUN			0	0	179,222.40	79,815.43	250.00	-179,472.40 100.0%
TOTAL REVENUES			-591,928	-810,425	-422,513.53	.00	.00	-387,911.47
TOTAL EXPENSES			591,928	810,425	601,735.93	79,815.43	250.00	208,439.07

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COUNTY OF PITT  
YEAR TO DATE BUDGET REPORT

PD 12 JUNE FY2016

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glytdbud

FOR 2016 12

	ORIGINAL APPROP	REVISED BUDGET	YTD ACTUAL	MTD ACTUAL	ENC/REQ	AVAILABLE BUDGET	PCT USED
GRAND TOTAL	0	0	179,222.40	79,815.43	250.00	-179,472.40	100.0%

\*\* END OF REPORT - Generated by CHRIS MCDANIEL \*\*

# North Carolina 911 Board Grant Application

## General Information

**Project Title** Rocky Mount Back Up PSAP need

**Grant Fiscal Year - 2017**

**Project Director** Allen Moore

**Project Contact** Allen Moore

**Project Contact Title** Communications Manager

**Address** 330 S. Church St.

Rocky Mount, NC, 27802

**Phone** 252-972-1437

**Email** allen.moore@rockymountnc.gov

*Three types of grants are available, as described below. In the box following these descriptions, please select the Grant Type which most appropriately fits your request.*

- **Consolidation** - A consolidation project involves combining one or more PSAPs with a primary PSAP with an integrated management structure that serves the same populations and jurisdictions previously served by offering grant funding for both PSAP costs authorized under G.S. 143B-1406(e) and costs not authorized under G.S. 143B-1406(e) to include construction costs.
- **Individual PSAP Enhancement/Replacement** - the relocation costs of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.
- **Regional Initiative Enhancement/Replacement** - Regional initiatives are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such initiatives comprise projects involving two or more primary PSAPs or a primary PSAP with approved secondary PSAPs. Costs of relocation of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.

**Grant Type**   *Individual PSAP Enhancement/Replacement*

**PSAP Name**   *Rocky Mount Central Communications*

- 1.   *Has the Revenue/Expenditure Report for FY15 been completed and approved by the NC 911 Board Fiscal staff for the applicant PSAP?***

YES

- 2.   *Has the applicant PSAP submitted a plan and secured the means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP (backup plan)?***

YES

- 3.   *If the answer to #2 above is yes, does the PSAP have the means to implement the plan before 7/1/16?***

NO

- 4.   *If plan implementation will not occur before July 1, 2016, has an extension been requested?***

YES

---

# Project Description

***Required for all grant types, this should be a thorough, concise, and complete description of the proposed project.***

## **5. Please outline project goals and objectives.**

The goal of the Rocky Mount Emergency Communications Center is to provide a consistent uninterrupted service to the citizens of Rocky Mount beginning with the 911 call to the response of the various emergency service agencies. Our objective is to establish a backup center that would provide these essential services and develop a standard operating procedure addressing the use of the backup center on a regular basis. In our current backup plan, we are not prepared to adequately provide services in the event that our building had to be evacuated. We have very limited resources that can be used. The proposed backup center will provide the location, equipment, and other necessary resources for all these services to be delivered seamless to all of our end users with mirrored functionality of our primary PSAP.

## **6. Please provide an implementation strategy and work plan, including a timeline.**

We plan to house the backup PSAP at a city fire station located at 9914 NC 4, Battleboro, NC. This location is 8.44 miles driving distance from our primary PSAP and is not proximate to the railroad as is our primary.

On a daily basis we have three to six positions staffed during a shift, during peak call volume as many as seven positions may be staffed.

We have consulted with the Edgecombe, Nash and Tarboro PSAPs, and have determined that a regional backup center is not feasible due to incompatible CAD systems.

Within the location chosen for the backup PSAP is a large multi-purpose room that has been identified as the best location to be used as a backup 911 center. We will dedicate specific staff to oversee the project and ensure the timelines are established, met and followed. Once the project is approved, we would begin the process of ordering equipment from the various vendors. We expect this process to take approximately five to six months. The sixth month would allow for the beginning of the staging of equipment. This time would also be used to coordinate the installation of console furniture, radio consoles and other vendor equipment to ensure all vendors work smoothly together on this project. The seventh month would be dedicated to the testing and regular use of the facility to ensure that all aspects of the project are completed and functioning efficiently. We expect the project to be fully completed within nine months.

The transition from the primary to the backup facility will occur when two or more telecommunicators are present and able to take calls at the backup facility.

A hosted third party solution will be configured at the backup location through the use of fiber optics.

Our backup PSAP power system for emergencies will be utilizing a UPS system in addition to a dual fuel generator using an uninterrupted supply of natural gas as well as the ability to use diesel fuel.

We plan to work out of the backup PSAP a minimum of one shift cycle each month.

The backup facility provides for the needs of the employees by providing more amenities than the primary provides.

## **7. Please identify the interface or compatibility between existing equipment and/or software and that which you intend to purchase.**

The planned backup PSAP equipment will be capable of operating as a stand-alone center and have the same functionality as the primary. CAD, GIS mapping and telephone will be connected between the primary and backup PSAP. 911 trunks will be rerouted to the backup PSAP by CenturyLink, our provider of telephone systems at both the primary and the backup PSAP.

We will utilize existing vendors to build the backup center as an expansion of our primary center. We will utilize OSSl SunGard to provide seven CAD workstations. We currently have a seven position Positron Viper 911 Telephone system in our primary center. A hosted format of this telephone system is planned for our backup location. This will

position us to be prepared for the NG911 technology and IP technology in both our primary and backup center and they will be available at all times. Our primary center currently has seven Motorola Gold Elite Radio Console positions. Due to the end of the production of the gold elite consoles, the backup center is being proposed to have seven functional dispatch radio console positions that will meet compatibility requirements with our upgraded digital Motorola P25 radio system that should be installed in November or December 2016 at our primary PSAP.



## **Statement of Need**

***Required for all grant types, this statement should reference the relationship of the grant project to NCGS §143b-1407(b) and the current funding priorities established by the Grant Policy and Procedures and include evidence of any financial need.***

### **8. Please indicate how your PSAP or group of PSAPs meets the statutory criterion of serving a rural or high cost area.**

Pursuant to NCGS 160A-1(2) the city of Rocky Mount is within the criteria of being considered a municipal corporation. According to the 2013 US Census, Rocky Mount has a population estimate of 56,954.

### **9. Please identify funding priorities, their impact on operational services, and consequences of not receiving funding.**

Our most recent areas of upgrades were to our 911 phone system which was updated in October 2014. Additionally we have replaced our seven CAD consoles in fiscal year 2015-2016. This system, including the proposed telephone system for our backup center, will embrace the NG911 technology. Both phone systems are planned to be live at both locations at all times. A major failure of our primary PSAP would be detrimental to all emergency services agencies and to our citizens. Should we not receive the grant funding requested, the 911 center would not be able to move forward with this project. We continually explore opportunities to keep up with changing technologies in order to serve our users and citizens effectively as our existing 911 budget permits. Rocky Mount is continuing to ask all departments to reduce spending due to the economic recovery in Rocky Mount improving at a slower pace than the majority of the state.

### **10. Please provide a copy of your PSAP's long-term or strategic technology plan and identify how the project fits within it.**

The backup center plans will enable us to perform the same functions as our primary center at an alternate location. If our primary center becomes incapacitated or uninhabitable for a variety of reasons, the redundancy will allow all activities to continue at our backup center location. Additionally, the backup center location is served by a separate telephone central office than our primary center location. Our long-term technology plan provides a very effective means of accountability in determining the future hardware and software needs and will ensure compatibility with our existing and future advances in technology.

### **11. Please identify the likelihood of completing the project utilizing your 911 fund balance and the percentage of grant funding being requested in relation to total project costs.**

We are seeking grant funding on all eligible expenses. There are no other avenues known for additional funding resources. With continued possibilities of budget cuts, current city budget constraints and limited 911 revenues, the backup center and NG911 upgrades would not be possible without this grant.

# ***Regional Initiative Enhancement/Replacement Project***

***Required for all Regional Initiative Enhancement/Replacement project types.***

***Regional initiative enhancement/replacement projects are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such projects may involve two or more primary PSAPs.***

**12. What is the relationship of participating PSAPs to the initiative? Provide MOUs between PSAPs identifying each participant PSAP's responsibilities to the project.**

MOU in place with Nash County to take over calls and dispatching as needed when transitioning to back up location.

**13. Identify intended collaborative efforts between participating PSAPs.**

Nash County taking over call taking and dispatching function until back up PSAP location is staffed.

**14. Identify how resource sharing will take place.**

Calls will be routed initially to Nash County when PSAP location is unable to take calls. Once backup PSAP is staffed calls will be routed once more.

**15. Indicate how the initiative impacts the operational or strategic plans of the participating agencies.**

Nash County will initially handle additional call volume and dispatching created by PSAP failure.

**NOTE:** The following section on “Consolidation Project Plan” is **ONLY** required if your type of grant is a “Consolidation”. If your project **IS NOT** a Consolidation, proceed to question # 23 to complete the grant application.

**16. Indicate how a consolidation would take place and improve service**

Click or tap here to enter text.

**17. Indicate how the consolidated PSAP should be organized and staffed**

Click or tap here to enter text.

**18. Indicate what services the consolidated PSAP should perform**

Click or tap here to enter text.

**19. Indicate how consolidated PSAP policies should be made and changed**

Click or tap here to enter text.

**20. Indicate how the consolidated PSAP should be funded exclusive of grant funding**

Click or tap here to enter text.

**21. Indicate what changes or improvements should be made to inter-communications among the local governments participating in the consolidation in order to better support operations.**

Click or tap here to enter text.

**22. Discuss sustainability of the consolidation project during the proposed term of the project, and for the foreseeable future.**

Click or tap here to enter text.

## FINANCIAL DATA

### **23. Current 911 Fund Balance**

As of 5-31-16 the fund balance is \$398,566.14. Items that need to be posted are allocation of job functions for year that will reduce available fund balance between \$50,000 and \$100,000.

### **24. Amount Requested**

\$505,300

### **25. Total Project Cost**

\$637,100 total cost for project.

Anticipate the expense of \$100,000 for electrical engineer, additional \$30,000 for rewiring and DCI licenses of 1,800 that will not be funded by 911.

Additional funding request for expense total of \$505,300

## Budget and Budget Narrative

*A budget and budget narrative must be supplied for all types of projects, as well as a copy of the applicant agency's approved FY 2016 PSAP budget.*

### **26. List planned expenditures**

One time expenses include the below listed items:

911 telephone equipment	154,000
Consoles	132,000
Voice logging server	62,000
Monitors	7,000
Computer work stations	12,000
UPS	35,000
CAD Computers	6,000
Paging interface w/ CAD	6,000
Chairs	12,000
Dispatch Protocol (EFD)	13,000
Electrical engineer	100,000 (not allowable)
Rewiring	30,000 (not allowable)
Total one time	569,000
911 Allowable one	439,000

Recurring annual cost:

Auto Call Dist System	22,000
(leased fiber)	
911 telephone equipment	13,000
(vipier & intrados support)	
Recording system	27,000
UPS maint.	2,000
EFD maint.	2,300
DCI Liscenses	1,800 (not allowable)
Recurring cost	68,100
Recurring 911 allowable	66,300

Total projected cost first year 637,100

911 cost need first year 505,300

**27. Provide a budget narrative that briefly explains the reason for each requested budget item.**

We will use A911 NPLS circuits to connect both the primary center location and the backup center. The backup center will be a hosted solution while the primary center is developing into a hybrid solution with plans to move to a hosted solution in the future. Our CAD and recording systems will also be utilizing this connection to allow data to be replicated at both the primary and backup center locations. EFD protocol is used in the dispatching of all fire department related telephone calls from the public. Console and chairs needed for employees to work from.

**28. State how you will follow applicable procurement law, rules, and policies.**

The proposed project will be an expansion of our current overall system and the same vendors will be utilized without the need of going through the bid process for most items mentioned. We will follow the city established local guidelines that meet the laws pertaining to purchase and recording capital outlay purchases should there be a need to outsource any work.

**29. If the project will have ongoing expenses, such as monthly recurring charges, describe plans and specific sources for future/long-term funding and demonstrate how the project will be sustained in the future without additional 911 Grant Program funding.**

Once the backup center has been established and is up and operational, the recurring costs for the contractors and maintenance of the specific systems that have been installed will be funded through distribution of 911 eligible expenses, City general fund money, and reconsideration request may be submitted for any future overages equipment may cause. There will be no additional 911 grant requests related to funding this project.

## **Evaluation**

***All applications must include evaluation information. The final report shall include an evaluation demonstrating that the equipment or services funded by the grant have been purchased, installed/implemented, and are performing as expected.***

**30. Explain how your evaluation will measure the achievement of the goals and objectives identified in the Project Description with a timeline for meeting short, intermediate, and long term goals.**

The backup center will be evaluated/tested monthly by our staff working a complete shift from the backup center location; this will allow us to identify deficiencies that may exist and allow each shift to have the opportunity to work in the new environment. By doing this on a consistent basis our objective would be to reduce/measure the amount of time required to be up and operational from our backup location in the event an emergency occurs requiring evacuation.

**31. Describe how evaluations will be conducted, including performance parameters which must be met in order to meet acceptance criteria.**

The evaluation will be conducted monthly by the manager or his/her designee. Full mirror functionality must occur with shift cycle working out of backup PSAP monthly. Information on all calls will be gathered through both ECATS and MIS software. CAD will gather all information of calls for service.

**32. Identify how data will be collected and presented**

Data will be collected from CAD and the telephone equipment that will enable us to generate reports to measure the number of calls handled at the backup center.

## PSAP Backup PLAN

### City of Rocky Mount Request for Backup Plan Approval

#### PSAP POC

Allen Moore

252-972-1437

[allen.moore@rockymountnc.gov](mailto:allen.moore@rockymountnc.gov)

#### Goal:

Providing the citizens of Rocky Mount with uninterrupted 911 service should a failure occur within the primary PSAP

#### City overview:

Rocky Mount serves an area of 46 square miles and a population of 56,325 (2014 Census Bureau estimate). Pursuant to NCGS 160A-1(2) the city of Rocky Mount is within the criteria of being considered a municipal corporation. Rocky Mount Police Department is the oversight agency for Rocky Mount 911. Rocky Mount 911 operates a twenty-four hour a day, seven day a week enhanced 911 center (PSAP). Rocky Mount is the only Primary PSAP for the city and there are no secondary answering points.

Rocky Mount has a minimum of three telecommunicators on duty twenty-four hours a day. In 2015 Rocky Mount answered 77,002 emergency 911 calls in addition to 97,859 administrative calls for a total call volume of 174,861 calls (MIS II). City of Rocky Mount dispatches for both the Police and Fire Departments for the city.

The primary PSAP is located at 330 South Church Street in Rocky Mount. Our proposed backup PSAP is located at Fire Station Seven, 9914 NC 4 Highway, Rocky Mount, NC. The backup location is 8.44 miles driving distance from our primary PSAP and is not proximate to the railroad as is our primary.

#### Technology:

- 50 Mg leased fiber connection
- OSSI CAD
- Motorola 800 MHz radio system with VHF capability only (system will be upgraded this coming year to 800 MHz Viper Simulcast system w/ encryption capability for public safety.
- Consoles from 1998 being replaced in immediate future by Russ Bassett.
- Priority Dispatch Pro QA and Card sets for EFD

**Commented [DDD1]:** A good reasonable distance for the backup center. The distance would probably result in diversity in trunk routing and power grids. He also makes a good point in that this location is not affected by the same potential hazard (railroad) as the primary.



- Revcord recording system that is cloud based.
- Intrado phone system supported by Cenury Link

#### Staffing and interoperability:

The Rocky Mount 911 primary PSAP has seven answering/dispatch positions. Staffing for shift is between five and six telecommunicators when fully staffed. There is only one full time administrative staff, the communications manager, who works as needed, but is most often scheduled to work Monday through Friday from 0830 to 1700 excluding recognized city holidays but is still expected to be available by telephone at all times twenty four hours a day.

The backup PSAP will be located at Fire Department Station Seven that is located at 9914 NC 4 Highway, Rocky Mount, NC. This location shall be developed to contain six functional dispatch and call taking solutions.

Should the 911 service be completely inoperable in Rocky Mount agreement will be in place for Nash County to take all calls and to communicate directly to Rocky Mount Police and Fire. This agreement is currently in the process of formalization however these conditions failovers are currently used.

**Commented [BTG2]:** You need a signed (county manager/city manager level) MOU with Nash County

Positions within the proposed Rocky Mount Backup Facility, which will have six fully functioning dispatch position containing the following:

- Communication will be allowed through 50mg leased fiber from Century Link.
- The backup facility shall have added to its operations a complete Motorola Viper radio system solution with consolettes allowing for a separate radio dispatch solution. These consolettes will also be integrated into the Primary Center.
- Six fully functional Intrado VOIP phone systems supported by CenturyLink.
- RevCord recording system that is cloud based.
- The backup center shall have six OSSI computer aided dispatch systems with mapping.
- A UPS system that will be integrated electrically to operate equipment for 30 minutes on load if the generator fails to crank. Additional UPS at consoles for redundancy.
- The backup center will have a generator that uses natural gas.

**Commented [BTG3]:** 50mg is good and should supply ample bandwidth.

**Commented [DDD4]:** Would not want to see any less than 30 minute capacity at load here.

#### Implementation:

If Rocky Mount's PSAP has a failure of the entire operations, dispatch will notify the 911 communications manager immediately. The shift supervisor or lead telecommunicator will immediately notify Nash County of the evacuation and proceed to the Rocky Mount 911 Backup Facility. The 911 Communications Manager shall inform the Police Chief and Division Commander. During the transition between primary and backup centers the Nash County 911

center will dispatch all priority one calls that cannot be held in addition to any other calls seen as exigent needing immediate attention. All police calls will have two police units responding to them until Rocky Mount 911 assumes responsibility for all calls.

Once Rocky Mount personnel arrive on scene, telecommunicators will log into profiles in the backup center's system and begin to process calls. This will insure the 911 services continue uninterrupted.

Testing and maintenance:

Backup location will be tested the first Saturday and Sunday, into early morning hours of Monday each month. For example, on the test day the dayshift on Saturday will report to the Backup center for the entire shift as will the night shift. This will repeat on Sunday. Day shift on Monday will report to the primary and make the transition to normal duty day. In order to ensure that each center is fully functional each shift shall work in concert in order to ensure that transitions between the two centers has successfully taken place. Each monthly test will allow for assessment of the plan, and work out any future updates.

**Commented [BTG5]:** I really like the fact that you're going to test it frequently.

Projected costs:

Please see backup PSAP reconsideration request.

To maintain the Backup Center, each of the costs that are outlined in North Carolina General Statutes as Emergency Telephone Fund eligible shall be absorbed into this fund. Those operating expenses that are not Emergency Telephone Fund eligible shall be absorbed into the General Operating budget for the Primary PSAP.

**E911 CITY OF ROCKY MOUNT**  
**Proposal For Metro Ethernet - Classic Enhanced Services**  
Proposal Date: 11/20/2015  
Expire Quote Date: 3/15/2016  
Customer Copy - Quote #: 15-027947



---

**Customer Contact Information:**

**Company Name:** E911 CITY OF ROCKY MOUNT  
**Billing Address:** 1 GOVERNMENT PLZ ATTN: MACK EVERETTE  
**Billing City, State, Zip:** ROCKY MOUNT NC 27804  
**BAN ID:** New BAN ID  
**Customer Contact Name:** Allen Moore  
**Customer Contact Phone:** 252-972-1411  
**Customer Contact E-mail:**

---

**CenturyLink Contact Information:**

**Sales Person:** Robert Robinson []  
**Email:** robert.l.robinson1@centurylink.com  
**Sales Contact Number:**  
**Dealer Code:**

**Engineer:** Paul Winstead  
**Email:** Paul.W.Winstead@centurylink.com  
**Engineer Contact Number:** 252 212 3663

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**Service Description:** The following Term options reflect the total budgetary Monthly Recurring Revenue (MRR) and Non-Recurring Revenue (NRR) for all sites included in the quote. See subsequent pages for individual budgetary charges per site.

**Type of Service:** Metro Ethernet - Classic Enhanced Services

**Term Agreement:** 36 month

**Total # of Sites included in this quote:** 2

Site	Listing Name	MRR	NRR
A	E911 CITY OF ROCKY MOUNT	\$919.00	\$24.00
B	Rocky Mount (Back Up)	\$919.00	\$24.00
	<b>TOTAL</b>	<b>\$1838.00</b>	<b>\$48.00</b>

**E911 CITY OF ROCKY MOUNT**  
**Proposal For Metro Ethernet - Classic Enhanced Services**  
Proposal Date: 11/20/2015  
Expire Quote Date: 3/15/2016  
Customer Copy - Quote #: 15-027947



**Customer Service Location:**

**PON #:**  
**Primary Location Name:** E911 CITY OF ROCKY MOUNT  
**Address:** 330 S CHURCH ST NASH COUNTY  
**City, State, Zip:** ROCKY MOUNT, NC, 27804  
**NPA-NXX:**  
**On Site Contact Name:** Allen Moore  
**Work TN:** 252-972-1411

**Telco Central Office Information:**

**Telco A:** Carolina Telephone and Telegraph Company LLC  
**Serving Central Office CLLI:** RCMTNCXA30W  
**Serving Central Office Address:** 143 N WASHINGTON ST  
**Serving Central Office City, State, Zip:** ROCKY MT, NC 27801

**Service Description:**

**Type of Service:** Metro Ethernet - Classic Enhanced Services, 36 month term

Site	Qty	Price Plan	Feature Code	Item	MRR	NRR
A	1			Service Order Charge		24.00
A	1	PPE3CEZ2B	E163	50Mbps Enhanced Ethernet - Classic	\$669.00	
A	10	PPETHSILV	EQHSIL	QoS Silver - per Mbps	\$250.00	
				<b>TOTAL</b>	<b>\$919.00</b>	<b>\$24.00</b>

**Additional Terms and Conditions:**

- At [http://about.centurylink.com/legal/rates\\_conditions.html](http://about.centurylink.com/legal/rates_conditions.html), the following information will direct you to the applicable terms and conditions for the Services:  
Entity: Carolina Telephone and Telegraph Company LLC  
Service: Metro Ethernet - Classic Enhanced Services
- The prices quoted apply only to the sites included in the Quote and will not apply if Customer adds, changes or moves site locations. Rates, charges and discounts for Service elements not identified appear in the applicable terms and conditions identified above. Prices do not include taxes or applicable surcharges that CenturyLink may bill Customer. Unless this Quote is incorporated into a signed agreement, it is non-binding. Except for charges described in this Quote, the applicable CenturyLink terms and conditions identified above will control over any inconsistencies or conflicts between the Quote and the terms and conditions.

**E911 CITY OF ROCKY MOUNT**  
**Proposal For Metro Ethernet - Classic Enhanced Services**  
Proposal Date: 11/20/2015  
Expire Quote Date: 3/15/2016  
Customer Copy - Quote #: 15-027947



**Customer Service Location:**

**PON #:**  
**Primary Location Name:** Rocky Mount (Back Up)  
**Address:** 9914 NC Hwy 4  
**City, State, Zip:** BATTLEBORO, NC, 27809  
**NPA-NXX:** 252-972  
**On Site Contact Name:** Allen Moore  
**Work TN:** 252-972-1411

**Telco Central Office Information:**

**Telco B:** Carolina Telephone and Telegraph Company LLC  
**Serving Central Office CLLI:** RCMTNCXA30W  
**Serving Central Office Address:** 143 N WASHINGTON ST  
**Serving Central Office City, State, Zip:** ROCKY MT, NC 27801

**Service Description:**

**Type of Service:** Metro Ethernet - Classic Enhanced Services, 36 month term

Site	Qty	Price Plan	Feature Code	Item	MRR	NRR
B	1			Service Order Charge		24.00
B	1	PPE3CEZ2B	E163	50Mbps Enhanced Ethernet - Classic	\$669.00	
B	10	PPETHSILV	EQHSIL	QoS Silver - per Mbps	\$250.00	
				<b>TOTAL</b>	<b>\$919.00</b>	<b>\$24.00</b>

**Additional Terms and Conditions:**

- At [http://about.centurylink.com/legal/rates\\_conditions.html](http://about.centurylink.com/legal/rates_conditions.html), the following information will direct you to the applicable terms and conditions for the Services:  
Entity: Carolina Telephone and Telegraph Company LLC  
Service: Metro Ethernet - Classic Enhanced Services
- The prices quoted apply only to the sites included in the Quote and will not apply if Customer adds, changes or moves site locations. Rates, charges and discounts for Service elements not identified appear in the applicable terms and conditions identified above. Prices do not include taxes or applicable surcharges that CenturyLink may bill Customer. Unless this Quote is incorporated into a signed agreement, it is non-binding. Except for charges described in this Quote, the applicable CenturyLink terms and conditions identified above will control over any inconsistencies or conflicts between the Quote and the terms and conditions.

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## Customer Responsibilities – Ethernet Services described in this Price Quote

If the following responsibilities are not completed before installation of the Ethernet services described in this Price Quote (“Ethernet Services”), CenturyLink reserves the right, at its sole discretion, to reschedule installation, charge Customer for additional work and any necessary materials or Products on a Time and Material basis, or terminate the Agreement (to which this Price Quote is incorporated) with respect to Ethernet Services and any associated services utilizing Ethernet Services.

1. Customer must provide adequate conduit from the right-of-way into the building and confirm access facilities to the building are available for fiber provisioning. It is also Customer’s responsibility to locate private utilities on the premises if construction is required. Conduit specifications are as follows: One 2-inch Schedule 40 PVC conduit from 2 feet below grade at the building exterior to a pull box on the building exterior. Pull box must have a minimum dimension of 12-inch x 12-inch x 6-inch deep. Place one 2-inch conduit sleeve through wall from pull box to inside of the equipment room. Conduit must be equipped with 200 lb rated pull tension or greater. Equip conduit with no more than 2 quarter bends (a total of 180 degrees) between cable pulling points. Seal the conduit after installation to protect from damage such as water.

Conduit is not required when Ethernet Service is provisioned over copper or circuit bonding technology, 50 Mbps or less. Ethernet Services delivered via copper/circuit bonding technology will terminate at the CenturyLink demarcation point on a Customer-provided wall-mounted 66 block and cross-connected to a copper loop bonding unit.

2. Customer must provide one 20 x 44 x ¾ inch plywood backboard in an equipment demarcation room with clearance of 36 inches in front of backboard. If the fiber demarcation point is within 25 feet of the equipment rack, a wall board will not be required. All hardware and terminations will be installed in the Customer-provided rack.

If Customer is in a multi-tenant building and the shared building terminal at Customer’s location does not have adequate space for CenturyLink fiber termination, Customer or building owner must provide a 24” x 24” x 9” cabinet with ¾” plywood. This cabinet must be associated next to the original building terminal to support association of shared demarcation facilities.

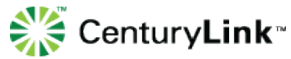
3. Customer must ensure the demarcation point is in an accessible and environmentally controlled location. All CenturyLink Ethernet Services-enabling Equipment requires a clean, dust-free environment that is environmentally controlled to temperatures of 55-80 degrees Fahrenheit and humidity of 70% or less. If Customer is in a multi-tenant building, Customer must ensure that the CenturyLink demarcation point, is accessible to CenturyLink technicians. Customer may need to coordinate access with the building manager to ensure that access is available on the day of installation. Customer must ensure that this location remains dry and free of dampness, and the room temperature remains within the tolerance of sensitive electronic hardware.
4. Customer must ensure 4 consecutive rack units of space in a 19” data rack are available for Ethernet Services. Customer must provide space in a 19” wide data rack for the required hardware. The rack must be either wall or floor mounted. CenturyLink will not install the hardware on a shelf or the floor.
5. Customer must provide a dedicated power outlet and common ground. CenturyLink termination electronics are powered by Customer-provided 120 VAC (20 Amp) circuit. CenturyLink requires the outlet to be a duplex, dedicated and grounded electrical outlet within 6 feet of the equipment location. Common ground must be 25 ohm or less. If Customer does not have an uninterrupted power supply (UPS) on the AC, Ethernet Services will be lost in the event of an AC power failure. If UPS is required, Customer will provide. CenturyLink will provide for an additional charge upon request.
6. Customer must complete inside wiring before the arrival of the CenturyLink installation technicians. Customer must extend the wiring from the demarcation point to the location where the Ethernet Services will be used.

CenturyLink only will extend the demarcation point on a Time and Material basis for an additional charge. Customer must contact its CenturyLink Account Executive to schedule the work. CenturyLink uses the following guidelines when extending the demarcation point: (1) If services are delivered via copper (50 Mbps or less), the

demarcation may be extended a maximum of 300 feet 24 gauge copper, or (2) If services are delivered via fiber, CenturyLink technicians will terminate fiber into a Customer-provided rack a maximum of 25 feet from demarcation.

7. Customer must confirm Ethernet Service hand-off requirements. CenturyLink will provide a standard RJ-45 copper Ethernet connection for 10/100 service and a single mode fiber connection on a 1 Gigabit circuit as the demarcation point for the Ethernet Services. If a different customer hand-off is required, such as a multimode fiber connection, Customer must state the requirement on the site survey per site network page.
8. Customer must confirm that its Local Area Network ("LAN") has an appropriate Ethernet Service port available to provide the desired network functionality and is within the distance required by Ethernet Service specifications. Customer will program the Ethernet Service port for appropriate speed and full duplex setting. (auto-negotiate is not available). Customer will provide CAT5 cable(s) to connect its LAN to the CenturyLink Ethernet Service-enabling equipment. Customer will provide an appropriate Ethernet Service-enabling patch cable for connecting CenturyLink demarcation and Customer-provided Equipment.
9. Ethernet Services are a Layer 2 network service only. All customer premises LAN Layer 3 (e.g. IP) addressing is Customer's responsibility. CenturyLink will provide pricing for additional equipment and labor to enable Layer 3 functionality, if required. In most cases this will be a router which will provide the Layer 3 routing of subnets and VLAN on Customer's network. If Customer only requires Layer 2 bridging (a flat network) across the Ethernet Services, then a standard Ethernet Service switch port is all that is required.
10. The CenturyLink installer will not connect Ethernet Services to Customer's LAN. CenturyLink installers will install the hardware and identify a port for connection. CenturyLink highly recommends the use of a qualified networking vendor to assist with LAN configuration. A CenturyLink Account Executive can provide pricing for CenturyLink network configuration for Ethernet Services.

Ethernet Services will be installed at your site only upon completion of all of these steps. If Customer is unable to complete all of these requirements before the installation date, Customer will notify CenturyLink as soon as it becomes aware of its inability.



Customer Legal Name:	E911 CITY OF ROCKY MOUNT
Customer Billing Name:	E911 CITY OF ROCKY MOUNT
Site Address 1:	1 GOVERNMENT PLZ ATTN: MACK EVERETTE
Site Address 2:	
City:	ROCKY MOUNT
State:	NC
Zip:	27804
Contact Name:	
Phone Number:	
E-Mail:	
Account Manager / Sales ID:	Robert Robinson
Account Manager E-mail:	robert.l.robinson1@centurylink.com
Sales Engineer Name:	<a href="#">Paul Winstead</a>
Sales Engineer E-Mail:	<a href="mailto:Paul.W.Winstead@centurylink.com">Paul.W.Winstead@centurylink.com</a>
Quote Number:	16-003184





JCW Pricing Tool 6.01

Quote Number# 16-003184

Account Manager: Robert Robinson

Centurion Maintenance

<b>Customer Legal Name:</b> E911 CITY OF ROCKY MOUNT <b>Customer Billing Name:</b> E911 CITY OF ROCKY MOUNT <b>Customer Address:</b> 1 GOVERNMENT PLZ ATTN: MACK EVERETTE , ROCKY MOUNT, NC 27804 <b>Date Prepared:</b> March 24, 2016 <b>Quote Expires:</b> May 23, 2016 <b>Quote Number:</b> 16-003184		<b>Coverage:</b> <b>Contract Term:</b>					
QTY	Item	Total Non-Recurring Price	Annual Price - Year 1	Annual Price - Year 2+	Total Annual Price - Y1	Total Annual Price - Y2+	Total Term Price
	CPE - (Includes Shipping and Misc costs)	\$ 39,423.33			\$ -	\$ -	\$ -
	Labor	\$ -					
	On-Site Tech	\$ -	\$ -	\$ -			
	Vendor Support	\$ -	\$ -	\$ -			
<b>Total Prices</b>		<b>\$ 39,423.33</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

Prices shown on this page represent recurring and nonrecurring charges for items as described. These prices do not include recurring or nonrecurring charges for taxes, duties, tariffs, or telecommunication services.



## Customer Notes / Project Description

quote is to install new furniture at the backup center

Notes

**Edge One Solutions, Inc.**

5301 Mill Dam Rd  
Wake Forest, NC 27587  
Tel: 919-554-1954  
Fax: 919-554-9257

## QUOTATION

<b>Proposed Work:</b>	Upgrade to proposed 56 Channel Revcored system for backup site to record 26 talk groups via over the air integration to Motorola Astro P25
<b>Quotation Date:</b>	April 4, 2016
<b>Prepared By:</b>	Todd Williams

**Prepared For:** City of Rocky Mount  
**Attn:** Allen Moore  
**Address:** 330 South Church St  
Rocky Mount NC 27802

**Install Location Contact:**

**Phone:**  
**Email:**

**Phone:** 252-972-1437  
**Email:** [allen.moore@rockymountnc.gov](mailto:allen.moore@rockymountnc.gov)

Part Number	h/w,s/w lic	Quantity	Description	Price	Total
<b>System Specifications</b>					
REV-OTA		1	Over The Air Radio Integration	\$ 4,500.00	\$4,500.00
CHAN-TALK	lic	26	Talkgroup Recording License (One Per Talkgroup)	125.00	\$3,250.00
REVA16/S	hw/lic	1	16 Channel: Hardware and Channel License - Analog	5,557.00	\$5,557.00
CCRH	hw/lic	1	Control Channel Receiver, Cable and Antenna (One Per Site)	1,121.00	\$1,121.00
<b>Upgrade Sub Total:</b>					<b>\$13,307.00</b>
<b>Professional Services</b>					
Install	svc	1	Radio ID Software Installation (one per recorder)	\$1,890.00	\$1,890.00
Install	svc	1	Installation and Training	\$1,796.00	\$1,796.00
APP	svc	1	Extended One Year Warranty	1,131.00	\$1,131.00
<b>Services Sub Total:</b>					<b>\$4,817.00</b>
				<b>Shipping:</b>	\$50.00
<b>QUOTATION TOTAL:</b>					<b>\$18,174.00</b>

By signing below, you are authorizing purchase for materials and/or services quoted herein. Your signature authorizes Edge One Solutions, Inc. to proceed with your order and invoice accordingly. Please provide a copy of your company's purchase order along with the signed quotation and fax to 919-554-9257 or email to [twilliams@edgesolutions.com](mailto:twilliams@edgesolutions.com).

**Terms:**

Payment Terms: Upon Installation  
Delivery: CFR - Factory  
Validity of quotation: 120 Days  
Estimated Delivery: 4 Weeks ARO  
(Delivery is contingent upon stock availability at the time of order placement)

Approved by:

Approved Date:

Purchase Order Number



## Sales Quote #125546

by Tim Martin

Date 2/17/2016

110 South Regent Street, Suite 500  
Salt Lake City, UT 84111  
(801) 363-9127 \* (801) 363-9144 fax  
(800) 363-9127 toll-free

Bill To: City of Rocky Mount  
Attn: Allen B. Moore  
330 So Church St  
Rocky Mount, NC 27802

Ship To: City of Rocky Mount  
Attn: Allen B. Moore  
330 So Church St  
Rocky Mount, NC 27802

For: City of Rocky Mount  
Attn: Allen B. Moore  
330 So Church St  
Rocky Mount, NC 27802

Phone: (252) 972-1437 Fax: (252) 972-1399

Qty	Description	Unit Price	Extended Price
6	ProQA Software Licenses - backup (Fire - Paramount - Standard - North American English) Offsite, backup location software	\$1,750.00	\$10,500.00
1	Annual Maintenance/Support - ESP (G) License renewal, service and support	\$2,277.00	\$2,277.00
Sub-Total:			\$12,777.00
Tax:			\$0.00
Shipping & Handling:			\$20.00
Total:			\$12,797.00

This quote is valid for 120 days from date of issue. Unless otherwise agreed to in writing, all prices quoted are exclusive of any applicable sales, use, withholding and other taxes, duties, or government assessments relating to this transaction, which are the sole obligation of Buyer. Payment terms are Net 30 unless otherwise noted.

Seller will use reasonable efforts to deliver products on time, but will not be liable for any expenses or damages incurred as a result of late delivery or for circumstances beyond Seller's reasonable control. Shipments are made F.O.B. origin, which is Salt Lake City, UT, USA. All insurance expenses and risk of loss are assumed by Buyer.

Purchasing or signing below acknowledges your agreement to the terms above and to the "break the seal" or "click to accept" license agreement associated with the licensed product(s). The license agreement is included with the licensed product(s) and you will have the opportunity to read it before opening or installing. If unacceptable, you may return the licensed product(s) within 10 days of receipt for a refund, less any applicable restocking fees and original shipping charges.

Sign here ☒ \_\_\_\_\_ Date \_\_\_\_\_

Payment Method: (Check enclosed, or...)

☐ Purchase Order # \_\_\_\_\_

☐ VISA/MasterCard/AMEX # \_\_\_\_\_

Expiration: \_\_\_\_\_

*"To lead the creation of meaningful change in public safety and health."*

## MEMORANDUM of AGREEMENT

NASH COUNTY  
NORTH CAROLINA

This Memorandum of Agreement is entered into this 11 day of March, 20 16 between Nash County and the City of Rocky Mount for mutual aid in occurrence of system failure for 911 systems in Nash County and City of Rocky Mount. This agreement shall remain in effect until rescinded by either party.

### PARTIES

This agreement is entered into between Nash County and City of Rocky Mount

### PURPOSE

This memorandum is to establish an agreement for the centers to support 911 call answering and radio dispatch of each other should a total system failure occur or evacuation of 911 center be necessary.

### TERMS

Notice will be given in advance to representative supervisor of functioning 911 center that emergency telephone calls will be transferred as quickly as system failure is identified or evacuation of center is required. Normal operations will resume as soon as the impacted center is able to safely resume operations at primary or backup center.

### EQUIPMENT / PERSONNEL

Center providing relief for calls during system failure or evacuation will have needed radios in place to dispatch emergent calls as needed to fire and law enforcement personnel. Switch to transfer calls is already in place. Century Link is the provider of phone systems for both organizations and will make changes as needed to assist in redeployment of calls.

### TERMINATION


This Memorandum of Agreement shall be in effect from the date of execution and recurring. This MOA may be terminated by either party upon submission of a thirty-day (30) advance written notice of termination. Modifications of this agreement must be in writing and upon approval of both parties.

## EXECUTION

This Memorandum of Agreement will become effective upon execution of all parties to the MOA. The date of execution shall be the date of the last signature.

Nash County

County Manager

By:  Date: 3-14-16

Print Name: Zee B. Lamb

City of Rocky Mount

City Manager

By:  Date: 3/14/2016

Print Name: CHARLES W. PENNY

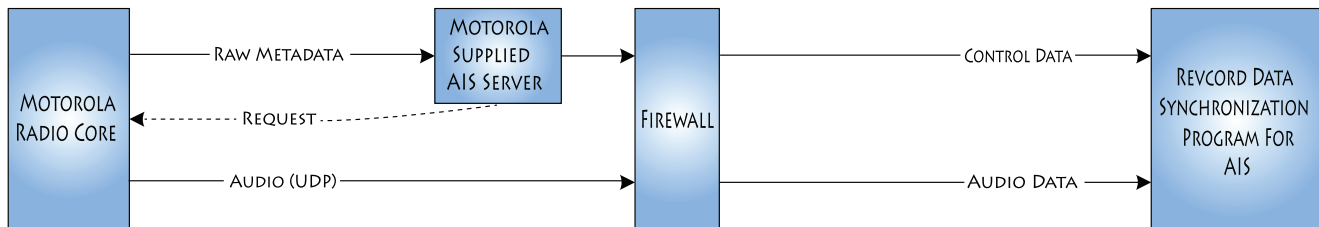
# Revcord Radio Solutions

## Trunking Radio Solutions

The Recording of a Trunked Radio ID System can be summed up in one sentence. Trunked Radio ID Integration is the process of synchronizing Audio Traffic (radio traffic) and Radio Control Data. It is that simple. The tricky part is receiving that data. Outlined below are the four industry standards on receiving this Data/Traffic along with RevCord's solution.

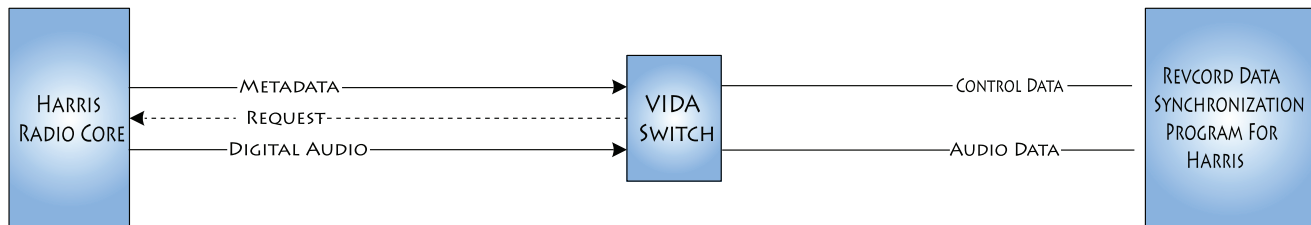
### *The Motorola Radio ID Integration Solution*

Motorola uses an AIS server which acts as a gateway for the Control Data and a router for the Audio Traffic. The Control Data is sent to the recorder via network TCP and the Audio Data is sent via network UDP. RevCord has a program that resides on the AIS server to perform this functionality and has the RevCord Data Synchronization Program residing on the Recorder. RevCord has multiple reference sites.



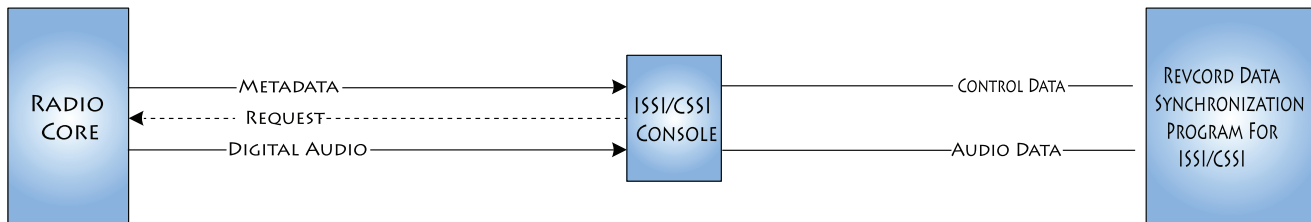
### *The Harris Radio ID Integration Solution*

Harris uses its VIDA switch which is effectively a network switch to provide for the Control Data and the Audio Traffic. The Control Data and the Audio Traffic is sent via network UDP. RevCord is an approved vendor for the Harris Radio ID Integration and has reference sites.



### *The Open APCO Standard Radio ID Integration Solution – ISSI/CSSI*

This open standard is provided as an alternative by both Motorola and Harris. It is also the standard for many other radio companies such as EF Johnson. However, both Motorola and Harris do not provide full functionality to the open standard. The Control Data and Audio Traffic is sent via UDP through a network switch on the Radio Network.

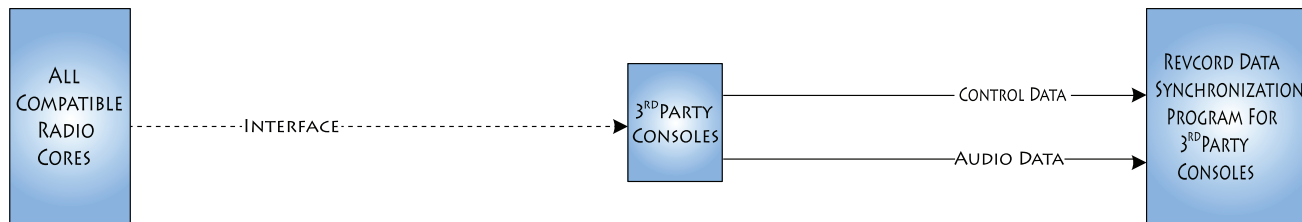




# Revcord Radio Solutions

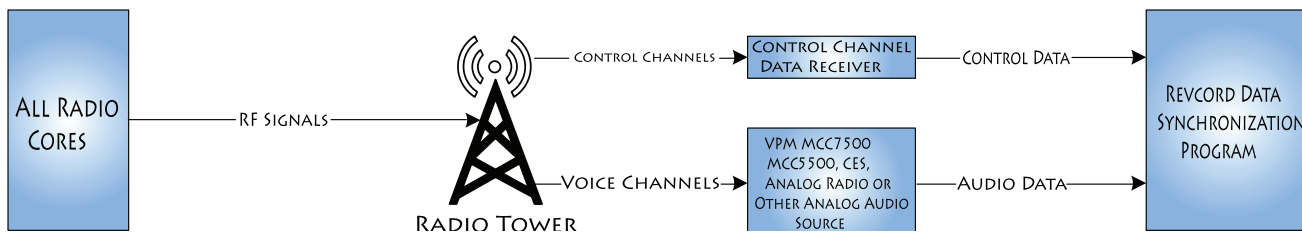
## *The Third Party Console Radio ID Integration Solution*

Most third party console manufacturers that tie into the various Cores of Motorola, Harris, EF Johnson and others that have performed the integration necessary to provide for the Radio ID information. Revcord has integrations with the most compatible third party console manufacturers to display Radio IDs.



## *The Revcord Radio ID Integration Solution*

Revcord relies on Control Data, either through a tower and a Control Channel Receiver, or through an ATIA data feed for when multiple sites are involved. Revcord is dependent on having analog channel audio feeds. With the advent of the MCC7500, this cost HAS come way down compared to buying a radio resource for each analog channel. This is by far the most economical solution in the marketplace today.



## Methods of Revcord's Radio ID Integration

### *Method 1 - Talk group recording*

- Install a radio with desired talk group selected.
- Control channel receiver provides associated metadata.
- Independent of protocol (P25 Phase I/Phase II, SmartNet/SmartZone, EDACS)
- Radio also provides the needed encryption key

### *Method 2 - Frequency recording*

- Currently only available in a P25 Phase I environment.
- Control channel receiver and radios are used to monitor the control channel and the frequencies.
- Control channel receiver provides all of the metadata.
- Parsing calls by talk group ID, radio ID, or dispatch console ID available.
- Radios provide the audio from the group call based on the frequency used.

## Audio Sources

The use of base stations, mobile, or portable radios provide the required audio directly from the tower that the field radios and consoles are using. In addition, many consoles can provide alternatives. The MCC7500 provides for excellent options. The Voice Processing Module for the dispatch console has a logging recorder port and eight speaker ports on the back. The speaker ports are provided by Motorola to send audio to other locations in a dispatch center for talk group monitoring purposes. These ports are talk group assignable and provide an analog audio feed of selected and unselected talk groups.

# Revcord Radio Solutions

## Advantages Of The Revcord Trunked Radio ID Recording Solution

- Avoid the purchase the AIS hardware or other wire line hardware, a separate computer in addition to the recorder.
- Avoid the costly Motorola imposed AIS license fee or other manufacturer connection fees.
- Avoid the high yearly maintenance costs charged by Motorola, other trunked radio manufacturers, and the recorder competition.
- Avoid the hassle of coordinating with outside agencies.
- Avoid the constant upgrade cycle.
- Gain a simple to understand solution that doesn't need a high priced technician to maintain.
- Gain integration between your radio recordings, your 911 phone recordings and your admin phone line recordings. One recorder does it all.
- Supports P25 (any vendor) phase 1 and phase 2 (Talkgroup Recording Only). Also supports Motorola 3600 baud trunking systems.
- Supports any configuration of trunking, system including standalone sites, cores, SmartZone and simulcast.
- Supports secure (encrypted) talkgroups.
- Supports the recording of private calls.
- Records every talkgroup call for every talkgroup using the trunking site. New talkgroups added to the trunking site are automatically recorded at no additional cost.
- Guaranteed to record all calls for monitored talkgroups. Recorder records EXACTLY what radio users hear. Single site and multi-site implementations.
- Provides local control of the recordings since all equipment is owned by you and is in your building which means no dependency or connections to outside agencies and no fees/ hassles.
- No networking bandwidth, leased line charges or agency coordination issues.

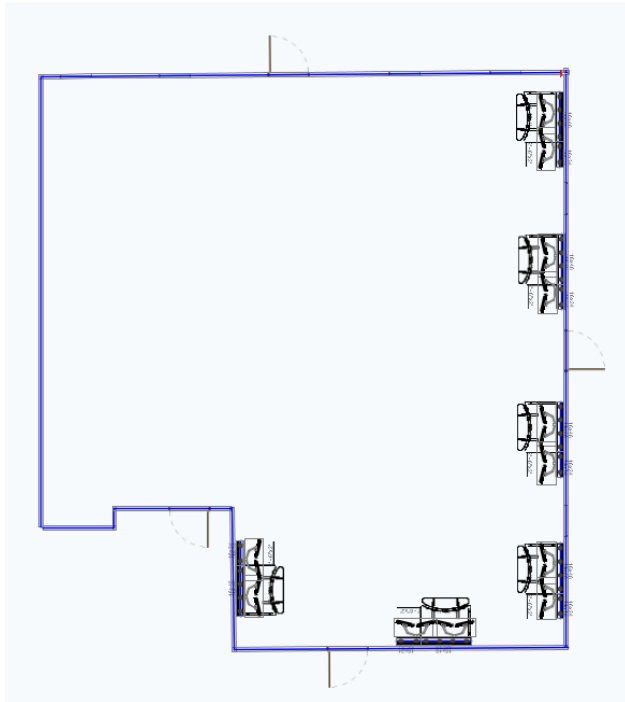
The Revcord solution records exactly what the end radio user hears. The Revcord solution is based on actual radio receivers. The recorded audio captures exactly what field radios hear including any noise, static or sounds introduced by the radio system's repeater or hardware backbone. The AIS solution records audio taken internally within the trunking system and does not represent the audio broadcast.

Revcord uses control channel data to gather radio and talkgroup IDs. The control channel is the most standardized and stable aspect of the entire trunking system. Simply upgrade the radio like every other radio in the system, and the recording will work. Revcord uses commercial readily available equipment to provide the control channel's raw data. The real concern is for the AIS technology. When you buy an AIS integration, you are locking into an upgrade cycle. Every time Motorola releases a version upgrade or patch, there can be an upgrade to the recording system.

## **Conventional Radio ID Integration**

Radio IDs is done through voice channel signaling versus a control channel for talk groups. There are two types which are MDC1200 and FleetSync. MDC1200 is used by Motorola and FleetSync supports other manufacturers like Kenwood. Traditionally this voice signaling has been decoded by hardware like a Cimarron Decoder. Revcord now provides this as a software based option which will provide the Radio IDs and the ability to create Aliases.

# Rocky Mount Back-up Center 3-21-15



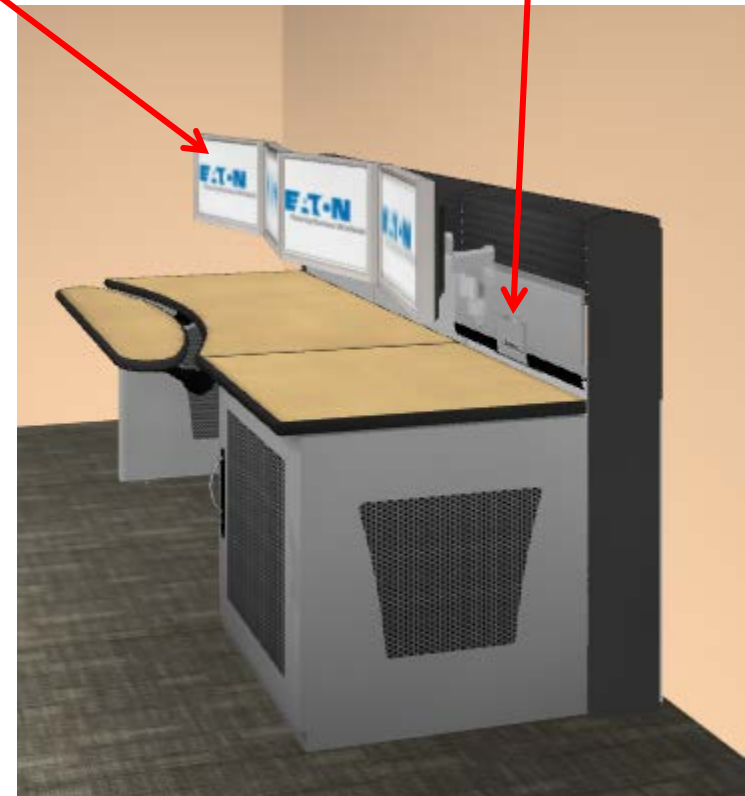
# Rocky Mount Back-up Center 3-21-15



Dual monitor arm, dual monitor mount,  
Height adjustable slatwall mount, 10" – 17" height, +/- 10 degree tilt  
16.2" max extension



Power/data Module





# Profile's Core Wall System And Cable Management



Each core and display wall offers integrated, high capacity raceways (6" x 3.5") with multiple portals to manage floor feed, lateral cabling and vertical routings. No additional ducts or cable accessories are required. Each raceway features a smooth textured finish and plastic trim rings and accepts optional power accessories and storage space for LCD flat screen AC adapters.



## Lateral raceway

Vented top trim panels are easily removed to gain access to integrated lateral raceway. Not only does this raceway provide mounting capabilities for power strips, transformers and optional fan assemblies, but it also offers the ability to segregate and manage data and power cabling.



## Removable panels

Removable external wall skins and user-facing cable access panels structured with the Profile slatwall component allow servicing and cable management access.



## Servicing and cable management

Removable core skins allow servicing and cable management access from both the user-facing and external sides of the configuration. Steel panels are designed with a bottom perforation pattern for heat dissipation.



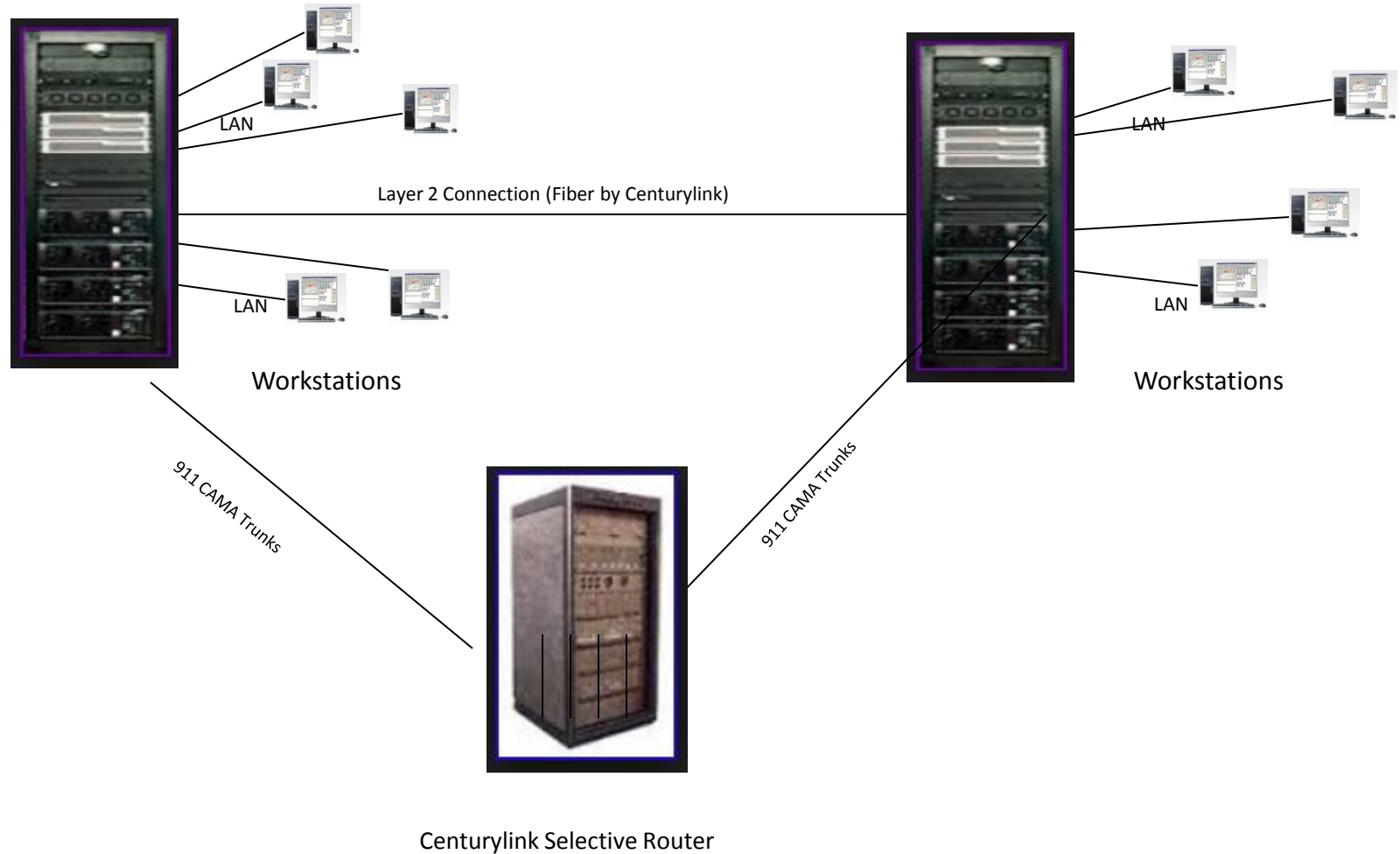
## Cable access portals

Profile's cores and walls are designed with horizontal and vertical cable access portals, allowing for continuous cable/data feeds throughout your configuration. Portals are finished off with a smooth, plastic trim ring to protect your cables.

# *Proposed Backup Design*

VIPER Side A  
Rocky Mount PD

VIPER Side B  
Rocky Mount FD Battleboro



Backup PSAP Financial Documentation					
<u>Non-Eligible Costs</u>			<u>Surcharge Eligible Expenses</u>		
			One-Time Costs		
Product/Service	Cost		Product/Service	Cost	

Recurring Costs Annual		Recurring Costs Monthly	
Product/Service	Cost	Product/Service	Cost



Comments





June 3, 2016

North Carolina 911 Board  
Attn: Mr. Richard Taylor, Executive Director  
PO Box 17209  
Raleigh, NC 27619-7209

Dear Mr. Taylor:

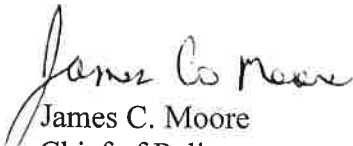
On behalf of the Rocky Mount Police Department I am requesting an extension for the implementation of our backup PSAP plan, as required by general statute. The plan was submitted to the 911 Board staff on February 19, 2016 and received initial approval from Mrs. Bone on April 29, 2016, but is awaiting review by Ms. Tapler.

The Rocky Mount Police Department submitted a 911 grant application in the fall of 2015. At that time, the 911 Board denied the grant and directed us to submit a reconsideration request. That request was submitted in February 2016. Now we are being instructed to re-submit both the 911 grant application and the reconsideration request. We have done all we can to comply with the requirements and deadline of July 1, 2016 as outlined in the statute.

If 911 Board funding is approved in the upcoming funding cycle, we anticipate having a backup PSAP fully operational by June 1, 2017. The timeline for completion and implementation of the plan is attached.

Should you have any questions, please contact me.

Sincerely,

  
James C. Moore  
Chief of Police

Attachment



## **Time line for Backup PSAP**

**February 19, 2016** – Initial draft of Backup PSAP Plan submitted

**April 29, 2016** – Revised Back Up PSAP Plan approved by Mrs. Bone contingent on additional review by Ms. Tapler

**June 3, 2016** – NC 911 Grant request submitted

**August 15, 2016** – Deadline for reconsideration requests

**September 1, 2016** – Funding solution finalized

**December 15, 2016** – Contracts signed for ordering of all equipment, excluding UPS and wiring

**April 15, 2016** – Furniture installed at Backup PSAP

**April 15, 2016** – Rewiring of building started

**May 15, 2016** – Radio system installed

**May 15, 2017** – Rewiring completed to include installation of UPS

**May 15, 2017** – New phone system installation begins in Backup PSAP along with training

**May 15, 2017** – CAD workstations placed in Backup Center,

**June 1, 2017** – Recording Solution completed at the Backup Center

**June 1, 2017** – Testing, setup, evaluation and training on backup center operations

**June 15, 2017** – The Rocky Mount 911 Backup Center is fully operational

# North Carolina 911 Board Grant Application

## General Information

**Project Title**

Regional Rowan-Cabarrus County Backup 911 Center

**Grant Fiscal Year - 2017**

**Project Director**

Allen Cress (Rowan County); Ray Gilleland (Cabarrus County)

**Project Contact**

Allen Cress

**Project Contact Title**

Director, Rowan County Telecommunications

**Address**

1090 Corporate Center Drive, Salisbury, NC 28146

**Phone**

(704) 216-8510

**Email**

allen.cress@rowancountync.gov

*Three types of grants are available, as described below. In the box following these descriptions, please select the Grant Type which most appropriately fits your request.*

- **Consolidation** - A consolidation project involves combining one or more PSAPs with a primary PSAP with an integrated management structure that serves the same populations and jurisdictions previously served by offering grant funding for both PSAP costs authorized under G.S. 143B-1406(e) and costs not authorized under G.S. 143B-1406(e) to include construction costs.
- **Individual PSAP Enhancement/Replacement** - the relocation costs of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.
- **Regional Initiative Enhancement/Replacement** - Regional initiatives are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such initiatives comprise projects involving two or more primary PSAPs or a primary PSAP with approved secondary PSAPs. Costs of relocation of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.

**Grant Type    *Regional Initiative Enhancement/Replacement***

**PSAP Name   *Rowan County Telecommunications***

- 1.   *Has the Revenue/Expenditure Report for FY15 been completed and approved by the NC 911 Board Fiscal staff for the applicant PSAP?***

YES

- 2.   *Has the applicant PSAP submitted a plan and secured the means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP (backup plan)?***

NO

- 3.   *If the answer to #2 above is yes, does the PSAP have the means to implement the plan before 7/1/16?***

[Select]

- 4.   *If plan implementation will not occur before July 1, 2016, has an extension been requested?***

YES

---

# Project Description

***Required for all grant types, this should be a thorough, concise, and complete description of the proposed project.***

## **5. Please outline project goals and objectives.**

Rowan and Cabarrus counties are partnering to operate a regional backup 911 center for both counties. Rowan and Cabarrus Counties are the primary PSAPs and Kannapolis and Concord Police Departments are the secondary PSAPs. Project goals and objectives are:

- I. To comply with NCGS 143B and subsequent policies, procedures and regulations by 7/1/16.
  - a. Develop a county 911 Backup Center Plan that is aligned with statutory requirements and professional best practices by 5/31/16
  - b. Secure resources for plan implementation by 7/1/16
  - c. Complete plan implementation by 7/1/17
- II. To create and equip a regional backup 911 center for Rowan and Cabarrus Counties (primary PSAPs) and the Kannapolis and Concord Police Departments (secondary PSAPs) by 7/1/17
  - a. Develop regional plans incorporating a regional backup 911 center by 5/31/16
  - b. Secure regional operation agreements by 6/30/16
  - c. Purchase equipment to outfit the regional backup 911 center by 8/31/16
  - d. Equip the regional backup 911 center by 5/31/17
  - e. Operate a fully functioning regional 911 center by 7/1/17

## **6. Please provide an implementation strategy and work plan, including a timeline.**

Cabarrus County currently operates a backup 911 location that will be expanded to incorporate six Rowan County workstations to parallel Cabarrus County's six stations. The facility is centrally located between the two counties, about two miles outside of the Rowan County line. Regional agreements have already been approved. For the purpose of cost-savings, Rowan County will convert to the Viper phone system already in use by Cabarrus County, with each county using different profiles that will route calls accordingly. Once all equipment is installed into the regional backup center, then the phone infrastructure will be consolidated with Rowan County's six consoles and Cabarrus County's six consoles. Radio, phone and CAD connectivity will continue to be handled in-house by each county's information technology department, supplemented by annual maintenance agreements with the vendors.

PROJECT TIMELINE	
<u>Completion Date</u>	<u>Activity</u>
5/31/16	Approve Rowan County 911 Backup Center Plan
5/24/16	Present final RFQ for project equipment to Rowan County Commissioners for approval
6/6/16	Secure approval of final project plan from individual county commissions
6/6/16	Secure approval of MOA's from individual county commissions
7/2016	Distribute/advertise project RFP for potential vendors

7/31/16	Secure resources for plan implementation
8/2016	Award contracts
12/31/16	Secure/Install Rowan County Viper 911 system
1/31/16	Convert Rowan County phones to Viper 911 system
2/28/17	Equip regional backup center/complete expansion
3/31/17	Implement fully operational regional backup 911 center

**7. Please identify the interface or compatibility between existing equipment and/or software and that which you intend to purchase.**

Cabarrus County currently uses the Viper Phone System. Using the same PC's for both counties will result in a cost savings. Each county will be using different profiles.

The Motorola radio system is proprietary and is the only viable solution for our county. The only other option would be to combine with the Charlotte UASI radio system. Since we have our own system, which works better for us, this option would not be financially prudent.

The Eventide recording solution is an upgrade to what we already have. We are saving money by splitting the system we have in Rowan County to help record radio traffic when the MCC7100s are used.

The furniture corresponds to what is already there, and is covered by state contracts.



# Statement of Need

***Required for all grant types, this statement should reference the relationship of the grant project to NCGS §143b-1407(b) and the current funding priorities established by the Grant Policy and Procedures and include evidence of any financial need.***

**8. Please indicate how your PSAP or group of PSAPs meets the statutory criterion of serving a rural or high cost area.**

NCGS 143B-1407(b) does not include a clear definition of “rural” or “high-cost”. G.S. 53A-37(5) defines rural area as any county in North Carolina which does not include within its boundaries a city, as defined by G.S. 160A-1(2), with a population greater than one percent (1%) of the population of North Carolina. Under this definition, Rowan County is rural, with its largest city having a population of .003% of the population of the state. The NC Department of Commerce has designated Rowan County as a Tier 2, regional city/suburban county because of its proximity to larger metropolitan areas. At 274 people/square mile, Rowan County falls just outside NCDC’s definition of rural (250 people/square mile), but well below its definition of urban with a minimum 750 people/square mile. The poverty rate in Rowan County is 19%--higher than the state average and higher than all of the surrounding counties.

**9. Please identify funding priorities, their impact on operational services, and consequences of not receiving funding.**

Each line item included in the project is critical to the full functioning of the regional back-up 911 center. As such, each item carries the same level of priority and importance. Each component of the budget is critical to proper service delivery. If funding is not received, there is currently no other source of funds available to our department to cover the costs. This application will have to be resubmitted for reconsideration. Also, if this project is not funded, our county (and ultimately the state) will be out of compliance with NCGS 143B-1406.

**10. Please provide a copy of your PSAP's long-term or strategic technology plan and identify how the project fits within it.**

The attached strategic technology plan includes over 70% of the items requested in the budget for this project. The items in the plan that correlate to this grant budget are highlighted and correspond to the following items in this grant budget request: 1) phone system, 2) recording solution, 3) workstations and 4) CAD workstations.

**11. Please identify the likelihood of completing the project utilizing your 911 fund balance and the percentage of grant funding being requested in relation to total project costs.**

Currently, our fund balance is \$940,000. \$250,000 of this total will be used to fund the department’s 2017 budget. This leaves approximately \$690,000 in the fund balance. Even if the county used 100% of the fund balance on this project, it would barely cover 50% of the total cost. We are requesting 99% of the project’s total cost, for a funding request total of \$1,725,810.07.

# ***Regional Initiative Enhancement/Replacement Project***

***Required for all Regional Initiative Enhancement/Replacement project types.***

***Regional initiative enhancement/replacement projects are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such projects may involve two or more primary PSAPs.***

## **12. What is the relationship of participating PSAPs to the initiative? Provide MOUs between PSAPs identifying each participant PSAP's responsibilities to the project.**

Rowan and Cabarrus County are partnering to expand Cabarrus County's already existing Backup 911 Center to include 6 workstations for Rowan County, thus making it a regional center. Both counties have verbally approved the project, and MOU's will be signed by county commissioners and submitted to the NC 911 Board during the week of June 6<sup>th</sup>.

## **13. Identify intended collaborative efforts between participating PSAPs.**

Both counties have participated in joint meetings between our Information Technology and 911 departments. All parties have worked diligently to identify and address potential challenges to implementation. All have committed to investing the various resources needed for a successful project.

## **14. Identify how resource sharing will take place.**

Rowan County will be locating to Cabarrus County's backup center, which will expand to accommodate the relocation. Individual PC's will be shared and networked through sign-in protocols.

## **15. Indicate how the initiative impacts the operational or strategic plans of the participating agencies.**

With further training and collaboration, this initiative could lead to a dynamic Continuity of Operations (COOP) plan. Ultimately we would like to explore utilizing personnel from both counties similar to how they are used in TERT situations.

**NOTE:** The following section on “Consolidation Project Plan” is **ONLY** required if your type of grant is a “Consolidation”. If your project **IS NOT** a Consolidation, proceed to question # 23 to complete the grant application.

**16. Indicate how a consolidation would take place and improve service**

Click or tap here to enter text.

**17. Indicate how the consolidated PSAP should be organized and staffed**

Click or tap here to enter text.

**18. Indicate what services the consolidated PSAP should perform**

Click or tap here to enter text.

**19. Indicate how consolidated PSAP policies should be made and changed**

Click or tap here to enter text.

**20. Indicate how the consolidated PSAP should be funded exclusive of grant funding**

Click or tap here to enter text.

**21. Indicate what changes or improvements should be made to inter-communications among the local governments participating in the consolidation in order to better support operations.**

Click or tap here to enter text.

**22. Discuss sustainability of the consolidation project during the proposed term of the project, and for the foreseeable future.**

Click or tap here to enter text.

## FINANCIAL DATA

**23. Current 911 Fund Balance**

\$948,085.78, with \$250,000 reserved to balance the 2016-17 budget.

**24. Amount Requested**

\$1,725,810.07

**25. Total Project Cost**

\$1,727,310.07

## Budget and Budget Narrative

***A budget and budget narrative must be supplied for all types of projects, as well as a copy of the applicant agency's approved FY 2016 PSAP budget.***

### **26. List planned expenditures**

- Intrado VIPER 911 Phone System + maintenance
- Motorola MCC7100 Radio System + maintenance
- Eventide Recording Solution + maintenance
- Workstations (Includes desk, chair, monitor supports @ state contract pricing)
- CAD Workstations (CPU & Monitor) + maintenance

### **27. Provide a budget narrative that briefly explains the reason for each requested budget item.**

- Intrado VIPER 911 Phone System + maintenance
  - This is the system currently in use by Cabarrus County. It was chosen for its performance and for the purpose of smooth and cost-efficient system integration.
- 10 Motorola MCC7100 Radio System + maintenance
  - Rowan County could provide up to 10 staff members for the back-up center at one time
- Eventide Recording Solution + maintenance
  - Software that is currently in use
- 6 Workstations (Includes desk, chair, monitor supports @ state contract pricing)
  - This will match what is already in place at the center.
- 12 CAD Workstations (CPU & Monitor) + maintenance
  - This will equip all 12 stations in the backup center

ONE TIME COSTS			
ITEM	# ITEMS	COST/ITEM	TOTAL COST
Intrado VIPER 911 Phone System	1	\$624,199.48	\$624,199.48
Intrado/CPE project management	1	\$27,182.71	\$27,182.71
Motorola MCC7100 Radio System	10	\$75,800	\$758,000
Eventide Recording Solution	1	\$110,000	\$110,000
Workstations (Includes desk, chair, monitor supports @ state contract pricing)	6	\$3,500	\$21,000
CAD Workstations (CPU & Monitor)	12	\$1,458.34	\$17,500
Back-Up Radio Installation	1	\$6,000	\$6,000
<b>TOTAL ONE-TIME COSTS</b>			<b>\$1,563,882.19</b>
RECURRING COSTS			
ITEM	# ITEMS	COST/ITEM	TOTAL COST
Fiber Broadband: 911 Intrado Connectivity (Monthly)	12	\$2,279	\$27,348
Maintenance Package (1-year): Intrado VIPER 911	1	\$49,742.74	\$49,742.74
A911 Extension to Back Up (1-year)	1	\$43,937.14	\$43,937.14
Motorola MCC7100 Maintenance (1-year)	1	\$17,400	\$17,400

Maintenance Package (1-year): Eventide Recording Solution	1	\$22,000	\$22,000
Fiber Broadband: 911 CAD Connectivity (Monthly)	12	\$1,500	\$1,500
(3) Air Cards (1-year) <b>INELIGIBLE</b>	3	\$500	\$1,500
<b>TOTAL RECURRING COSTS</b>			<b>\$163,427.88</b>
<b>TOTAL PROJECT COST</b>			<b>\$1,727,310.07</b>
<b>TOTAL GRANT REQUEST</b>			<b>\$1,725,810.07</b>

**28. State how you will follow applicable procurement law, rules, and policies.**

The phone system will be purchased under sole sourcing because it is the same equipment being used by Cabarrus County. The radio system will be proprietary to the Salisbury Radio System. The Eventide Recording Solution will be a continuation of what Rowan County is already using.

**29. If the project will have ongoing expenses, such as monthly recurring charges, describe plans and specific sources for future/long-term funding and demonstrate how the project will be sustained in the future without additional 911 Grant Program funding.**

Recurring charges will be included in the regular surcharge budget on an annual basis.

## Evaluation

***All applications must include evaluation information. The final report shall include an evaluation demonstrating that the equipment or services funded by the grant have been purchased, installed/implemented, and are performing as expected.***

**30. Explain how your evaluation will measure the achievement of the goals and objectives identified in the Project Description with a timeline for meeting short, intermediate, and long term goals.**

<b>GOAL I:</b> To comply with NCGS 143B and subsequent policies, procedures and regulations by 7/1/16.			
<b><u>Benchmark</u></b>	<b><u>Date</u></b>	<b><u>Method of Measurement</u></b>	<b><u>Complete?</u></b>
Develop a county 911 Backup Plan that is aligned with statutory requirements and professional best practices	5/31/16	Approved Emergency Operations Plan	Yes
Secure resources for plan implementation	7/1/16	Executed MOU's; Grant Awards; Approved budget	
Complete relevant portions of Emergency Operations Plan implementation	7/1/17	Fully functioning regional backup 911 center	
<b>GOAL II:</b> II. To create and equip a regional backup 911 center for Rowan and Cabarrus Counties (primary PSAPs) and the Kannapolis and Concord Police Departments (secondary PSAPs) by 7/1/17			
<b><u>Benchmark</u></b>	<b><u>Date</u></b>	<b><u>Method of Measurement</u></b>	<b><u>Complete?</u></b>
Develop regional plans incorporating a regional backup 911 center	5/31/16	Approved, individual county plans	Yes
Secure regional operation agreements	6/30/16	Executed MOU's	
Purchase equipment to outfit the regional backup 911 center	8/31/16	Paid invoices for all equipment included project budget	
Equip the regional backup 911 center	5/31/17	All equipment included in the project budget installed	
Operation of a fully functioning regional back-up 911 center	7/1/17	All staff and equipment in place and operating	

**31. Describe how evaluations will be conducted, including performance parameters which must be met in order to meet acceptance criteria.**

Formative evaluation of benchmark completion will be the responsibility of the Rowan County Telecommunications Director. The director will be responsible for delegating tasks and ensuring on-track progress of benchmark completion. The director will also be responsible for reporting progress to the Rowan County Manager and County Commission. Summative evaluation of the functioning regional backup 911 center will be the responsibility of the individual county commissions and the NC 911 Board.

**32. Identify how data will be collected and presented**

Data regarding project completion (invoices, timelines, grant applications, schedules, budgets, etc.) will be maintained in the Telecommunications department. It will be presented during individual and joint departmental meetings and commission meetings. After center completion, emergency call data will be collected and reported as it currently is now in the primary 911 centers.





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## **Rowan County 911 Communications Center**

1090 Corporate Center Dr.  
Salisbury NC, 28146

Director  
Allen Cress

Phone 704-216-8510  
Fax 704-216-8508

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## **Rowan County 911 Strategic Technology Replacement Work Plan**

### **ROWAN COUNTY 911 OVERVIEW**

Rowan County 911 began their joint efforts of a shared radio infrastructure in early 2012 and consolidated their respective 911 efforts completely in 2013. This chart serves as an overview of the Rowan 911 Technology and Equipment Replacement Cycle and provides a roadmap to manage our change and growth as agency. The replacement technology planning chart provides some logical direction for system growth to accommodate inevitable technology changes. Many variables can impact both the cost of implementation of the technology change and the timing of that implementation. However Rowan 911 will execute the plan within the established timelines and appropriate funding.

## Rowan 911 Technology and Equipment Replacement Cycle

<u>Item</u>	<u>Install timeframe</u>	<u>Status</u>	<u>Replacement Cycle</u>	<u>Current Replacement Fiscal Year</u>
UPS	2013	Excellent	10+ years	New Batteries May 2016
Generator (MW)	Installed 2013	Excellent	As needed	As needed
A911 Solution	2012	Seeking Funding	2016	Planned FY 16/17
Radio PCs	2013	Good Review Based on System Need	5 years	Needed FY 18/19
911 Voice Logging Recorder	2013	Excellent	4 years	Needed FY 16/17
911 CPE	2013	Excellent	4 years	Upgrade FY 17/18
Fire Alerting	2015	Working	TBD	Upgrade as needed per vendor
CAD Workstations/Servers	2013	Excellent	4 years	Needed FY 17/18
P25 Radio Platform	Master Core installed 2013	Review 911 surcharge eligible items	Ongoing	Covered under Maintenance Contract
Dispatch consoles (radios) MCC7500s	2013	Excellent	7 years	Covered under Maintenance Contract

BUDGET PREPARATION WORKSHEET  
FOR FISCAL YEAR 2016  
REVENUES AND EXPENDITURES

ACCOUNT NUMBER	ACCOUNT DESCRIPTION	ORIGINAL BUDGET FY 2014-2015	REVISED BUDGET FY 2014-2015	YTD ACTUAL FY 2014-2015	DEPARTMENT CONTINUATION FY 2015-2016	ADMIN BUDGET CONTINUATION FY 2015-2016	APPROVED BUDGET FY 2015-2016
101-4610-353.65-00	OSST MCT FEES	0	0	0	0	0	0
*	REVENUE	0	0	0	0	0	0
101-4610-420.10-05	SALARIES:REGULAR	1,157,200	1,127,200	1,089,749	0	1,151,507	1,151,507
101-4610-420.10-10	SALARIES:OVERTIME	71,000	75,050	71,304	0	76,000	76,000
LEVEL 400	TEXT COVERS OVERTIME SALARIES THAT IS BUILT INTO THEIR SCHEDULE AS WELL AS COVERING OPEN SHIFTS WHEN PEOPLE ARE OUT SICK, ON VACATION, FMLA, ETC. OUR 34 FULL TIME EMPLOYEES COVER WHEN THIER IS NO PART TIME AVAILABLE. THE REQUEST FOR ADDITIONAL IS DUE TO AN ADDED 8 HOURS OF CON ED THAT IS MANDATORY FOR OUR EMPLOYEES. ALSO WE ARE STILL TRYING TO BUILD OUR PART TIME STAFF FOR ADEQUATEC COVERAGE			76,000 76,000			
101-4610-420.10-15	SALARIES:PART-TIME	63,000	67,990	65,635	0	67,000	67,000
LEVEL 400	TEXT INCRCASE IS DUE TO THE ADDITIONAL ACCRUAL OF FULL TIME LEAVE DUE TO TIME ON THE JOB AND ADDITIONAL CON ED REQUIREMENTS WE ALSO NEED TO HIRE AT LEAST 5 PART TIME POSITIONS THIS YEAR			67,000 67,000			
101-4610-420.20-05	HEALTH INSURANCE	294,666	294,666	284,033	0	295,543	295,543
101-4610-420.20-08	HEALTH INSURANCE:RETIREEES	8,040	8,040	8,040	0	8,040	8,040
101-4610-420.20-10	MEDICARE TAX	18,722	18,722	16,495	0	18,771	18,771
101-4610-420.20-15	RETIREMENT	86,835	86,835	81,983	0	86,785	86,785
101-4610-420.20-20	SOCIAL SECURITY TAX	80,054	80,054	70,531	0	80,260	80,260
101-4610-420.20-25	WORKERS COMPENSATION	5,308	5,308	4,793	0	5,177	5,177
101-4610-420.20-30	401(K) CONTRIBUTIONS	38,736	38,736	32,083	0	36,825	36,825
101-4610-420.34-30	SERVICE & MAINTENANCE	89,090	89,090	48,652	0	202,513	202,513
LEVEL	TEXT						

BUDGET PREPARATION WORKSHEET  
FOR FISCAL YEAR 2016  
REVENUES AND EXPENDITURES

ACCOUNT NUMBER	ACCOUNT DESCRIPTION	ORIGINAL BUDGET FY 2014-2015	REVISED BUDGET FY 2014-2015	YTD ACTUAL FY 2014-2015	DEPARTMENT CONTINUATION FY 2015-2016	ADMIN BUDGET CONTINUATION FY 2015-2016	APPROVED BUDGET FY 2015-2016
400	BUS GENERATOR			500			
	DCI USER FEES			4,100			
	2 RADIO TOWER UPS MAINTENANCE			2,077			
	GIS PLOTTER			3,122			
	VHF FIRE BASES			3,750			
	REVERSE 911 DATA DUMPS (ALWAYS A GUESTIMATE)			5,000			
	MOTOROLA CONTRACT (1/2 YEAR)			66,482			
	SALISBURY RADIO MAINTENANCE (1/2 YEAR)			25,000			
	SPECTRUM TIME AND MATERIAL (ESTIMATED FROM LAST YEAR)			1,000			
	PLUS: COUNTY MANAGER'S INCREASES TO ANNUALIZE MOTOROLA CONTRACT AND SALISBURY RADIO MAINTENANCE			91,482			
				202,513			
101-4610-420.34-70	800 RADIO USER FEES	153,360	153,360	138,644	0	153,360	153,360
LEVEL 400	TEXT COVERS RADIO USER FEES PAID TO THE CITY OF SALISBURY FOR 800 RADIOS FROM THE COUNTY USED ON THE SYSTEM 1270 RADIOS \$10 EACH PER MONTH PER RADIO PLUS ADDITIONAL FOR ANY RADIOS ADDED DURING THE YEAR		TEXT AMT				
				153,360			
				153,360			
101-4610-420.41-40	WATER	500	1,350	710	0	1,000	1,000
LEVEL 400	TEXT WATER AND SEWER CHARGES, THE INCREASE IS DUE TO BEING IN THE BUILDING FOR OVER A YEAR NOW		TEXT AMT				
				1,000			
				1,000			
101-4610-420.43-15	R&M:EQUIPMENT	1,000	1,000	13	0	1,000	1,000
LEVEL 400	TEXT COVERS ANYTHING NOT COVERED UNDER MAINTENANCE CONTRACT		TEXT AMT				
				1,000			
				1,000			
101-4610-420.43-20	R&M:VEHICLES	2,000	2,000	784	0	2,000	2,000
LEVEL 400	TEXT THIS COVERS MAINTENANCE FOR THE DEPARTMENTS COMMAND BUS AND TAHOE. THE TAHOE WILL NEED A SET		TEXT AMT				

BUDGET PREPARATION WORKSHEET  
FOR FISCAL YEAR 2016  
REVENUES AND EXPENDITURES

ACCOUNT NUMBER	ACCOUNT DESCRIPTION	ORIGINAL BUDGET FY 2014-2015	REVISED BUDGET FY 2014-2015	YTD ACTUAL FY 2014-2015	DEPARTMENT CONTINUATION FY 2015-2016	ADMIN BUDGET CONTINUATION FY 2015-2016	APPROVED BUDGET FY 2015-2016
	OF TIRES THIS YEAR.			2,000 2,000			
101-4610-420.43-23	R&M:RADIOS	60,000	57,600	43,143	0	50,000	50,000
LEVEL 400	TEXT THIS COVERS REPAIRS ON A TIME AND MATERIAL BASIS TO REPAIR THE COUNTY FIRE DEPARTMENTS, EMS AND RCSS RADIOS. THERE ARE APPROX 1300 RADIOS.OF THE 1300 RADIOS SOME CAN BE FIXED BY THE RADIO SHOP FOR APPROX \$200 EACH. THE NEWER RADIOS WHICH CAME OFF WARRANTY ARE \$450-\$600 EACH TIME THEY NEED REPAIR. THIS LINE ITEM USED TO PAY FOR NEW AND USED VEHICLE RADIO INSTALLATION OR REMOVAL I HAVE ASKED THE INDIVIDUAL DEPARTMENTS TO REQUEST THOSE NEEDS IN THIER BUDGET THIS ALSO INCLUDES TIME AND MATERIAL ESTIMATES FOR REPAIR TO THE SOUTH ROWAN SITE IF NEEDED			50,000 50,000			
101-4610-420.43-55	R&M:TELEPHONES	3,000	3,000	935	0	1,000	1,000
LEVEL 400	TEXT COVERS THE 5 ADMIN PHONES IN THE BUILDING			1,000 1,000			
101-4610-420.44-35	RENT:PAGERS	12,500	12,500	10,546	0	11,000	11,000
LEVEL 400	TEXT COVERS THE COST OF PAGERS FOR SEVERAL COUNTY AGENCIES. THIS LINE HAS DECREASED SINCE LAST YEAR LESS PAGERS ARE USED THAN BEFORE			11,000 11,000			
101-4610-420.44-55	RENT:TOWERS	38,700	38,700	31,804	0	35,820	35,820
LEVEL 400	TEXT COVERS THE COST OF LEASING TOWER SPACE AT YOUNGS MOUNTAIN GRANITE QUARRY			33,120 2,700 35,820			
101-4610-420.50-07	COST PER COPY PROGRAM	900	900	826	0	1,200	1,200

BUDGET PREPARATION WORKSHEET  
FOR FISCAL YEAR 2016  
REVENUES AND EXPENDITURES

ACCOUNT NUMBER	ACCOUNT DESCRIPTION	ORIGINAL BUDGET FY 2014-2015	REVISED BUDGET FY 2014-2015	YTD ACTUAL FY 2014-2015	DEPARTMENT CONTINUATION FY 2015-2016	ADMIN BUDGET CONTINUATION FY 2015-2016	APPROVED BUDGET FY 2015-2016
LEVEL 400	TEXT COST PER COPY PROGRAM			TEXT AMT 1,200 1,200			
101-4610-420.53-05	TELEPHONE	9,000	12,000	10,509	0	12,600	12,600
LEVEL 400	TEXT AT&T VARIOUS ALARM LINES AND CIRCUIT LINES VERIZON ADMIN CELL PHONES AND AIR CARDS SPIRIT COMMUNICATIONS FOR DEPARTMENT DESK PHONES OTHER PHONE CHARGES			TEXT AMT 2,400 3,840 5,400 960 12,600			
101-4610-420.53-15	CELL PHONE ALLOWANCES	0	0	0	0	0	0
101-4610-420.55-00	PRINTING	200	200	48	0	200	200
LEVEL 400	TEXT ANY OUTSIDE THE OFFICE PRINTING NEEDS			TEXT AMT 200 200			
101-4610-420.56-00	UNIFORMS	10,500	10,500	10,298	0	10,500	10,500
LEVEL 400	TEXT COVERS THE COST OF PROVIDING UNIFORMS FOR ALL EMPLOYEES (50). THIS IS THE SAME AS LAST YEARS REQUEST. AS THE NEW DIRECTOR I HAVE A STRICTER POLICY ON PROFESSIONAL DRESS THAN BEFORE. I AM ASK ING THAT THIS ITEM BE KEPT THE SAME.			TEXT AMT 10,500 10,500			
101-4610-420.57-00	POSTAGE	200	200	117	0	200	200
LEVEL 400	TEXT COVERS THE COST OF SHIPPING AND POSTAGE.			TEXT AMT 200 200			
101-4610-420.58-00	TRAVEL	7,500	7,500	4,999	0	8,160	8,160
LEVEL	TEXT			TEXT AMT			

BUDGET PREPARATION WORKSHEET  
FOR FISCAL YEAR 2016  
REVENUES AND EXPENDITURES

ACCOUNT NUMBER	ACCOUNT DESCRIPTION	ORIGINAL BUDGET FY 2014-2015	REVISED BUDGET FY 2014-2015	YTD ACTUAL FY 2014-2015	DEPARTMENT CONTINUATION FY 2015-2016	ADMIN BUDGET CONTINUATION FY 2015-2016	APPROVED BUDGET FY 2015-2016
400	GIS ANALYST TRAVEL FOR TRAINING NEW DCI CERTIFICATIONS (ASSUMING FURTHEST CLASS) INSTITUTE OF GOVERNMENT TRAINING NENA APCO CONFERENCE (\$ EMPLOYEES) OTHER TRAINING OPPORTUNITIES DURING THE YEAR LESS: COUNTY MANAGER'S REDUCTION			1,800 2,100 3,450 3,310 2,500 5,000- 8,160			
101-4610-420.59-00	TRAINING	3,500	3,500	1,298	0	4,000	4,000
LEVEL 400	TEXT INSTITUTE OF GOVERNMENT GIS ANALYST NENA/APCO CONFERENCE (\$ PEOPLE) OTHER TRAINING OPPORTUNITIES DURING THE YEAR LESS: COUNTY MANAGER'S REDUCTION			TEXT AMT 2,800 1,000 1,000 1,500 2,300- 4,000			
101-4610-420.61-05	SUPPLIES:OFFICE	5,000	5,900	5,652	0	5,000	5,000
LEVEL 400	TEXT OFFICE SUPPLIES FOR THE DEPARTMENT			TEXT AMT 5,000 5,000			
101-4610-420.61-15	SUPPLIES:EDUCATIONAL	500	600	455	0	500	500
LEVEL 400	TEXT COVERS ANY ITEMS NOT COVERED IN SURCHARGE BUDGET			TEXT AMT 500 500			
101-4610-420.61-85	SUPPLIES:VEHICLE	700	700	452	0	700	700
LEVEL 400	TEXT COST OF SUPPLIES FOR BOTH COUNTY VEHICLES			TEXT AMT 700 700			
101-4610-420.61-95	SUPPLIES:OTHER SMALL EQMT	20,000	18,300	18,296	0	3,000	3,000
LEVEL 400	TEXT IN SMALL EQUIPMENT NEEDS FOR THE DEPARTMENT			TEXT AMT 3,000 3,000			

BUDGET PREPARATION WORKSHEET  
FOR FISCAL YEAR 2016  
REVENUES AND EXPENDITURES

ACCOUNT NUMBER	ACCOUNT DESCRIPTION	ORIGINAL BUDGET FY 2014-2015	REVISED BUDGET FY 2014-2015	YTD ACTUAL FY 2014-2015	DEPARTMENT CONTINUATION FY 2015-2016	ADMIN BUDGET CONTINUATION FY 2015-2016	APPROVED BUDGET FY 2015-2016
101-4610-420.62-05	ELECTRICITY	36,000	35,600	22,312	0	36,000	36,000
LEVEL 400	TEXT OUR ELECTRIC BILL			TEXT AMT 36,000 36,000			
101-4610-420.62-06	ELECTRICITY-TOWER SITES	9,600	10,254	9,338	0	11,300	11,300
LEVEL 400	TEXT YEARLY ESTIMATE FOR SOUTH ROWAN SITE YEARLY ESTIMATE FOR YOUNGS MOUNTAIN SITE POOLETOWN REPEATER TO BE DECOMMISSIONED THIS YEAR			TEXT AMT 6,000 4,800 500 11,300			
101-4610-420.62-20	MOTOR FUEL & LUBRICANTS	10,000	9,550	2,806	0	8,000	8,000
LEVEL 400	TEXT COVERS FUEL FOR THE DEPARTMENTS 2 VEHICLE PLUS FUEL FOR THE GENERATOR AT THE 911 FACILITY, AND THE 2 TOWER SITES			TEXT AMT 8,000 8,000			
101-4610-420.64-10	BOOKS	200	200	0	0	200	200
LEVEL 400	TEXT VARIOUS SUBSCRIPTIONS PERTAINING TO OUR INDUSTRY			TEXT AMT 200 200			
101-4610-420.64-50	DUES & SUBSCRIPTIONS	700	700	627	0	1,200	1,200
LEVEL 400	TEXT APCO/NEMA DUES PLUS OTHER RELATED TO OUR JOBS			TEXT AMT 1,200 1,200			
101-4610-420.73-00	C/A:OTHER IMPROVEMENTS	24,000	24,000	24,000	0	0	9,000
LEVEL 400	TEXT EXPANSION- SHELTER TO STORE TRAILER-MOUNTED MOBILE GENERATORS			TEXT AMT 9,000 9,000			



BUDGET PREPARATION WORKSHEET  
FOR FISCAL YEAR 2016  
REVENUES AND EXPENDITURES

ACCOUNT NUMBER	ACCOUNT DESCRIPTION	ORIGINAL BUDGET FY 2014-2015	REVISED BUDGET FY 2014-2015	YTD ACTUAL FY 2014-2015	DEPARTMENT CONTINUATION FY 2015-2016	ADMIN BUDGET CONTINUATION FY 2015-2016	APPROVED BUDGET FY 2015-2016
101-4610-420.74-35	C/A:VEHICLES	0	0	0	0	0	0
101-4610-420.76-20	F/A:DP EQUIPMENT	0	0	0	0	0	0
101-4610-420.76-30	F/A:EQUIPMENT/FURNISHINGS	0	3,100	3,058	0	0	0
101-4610-420.76-50	F/A:RADIOS	0	0	0	0	0	0
*	EXPENDITURE	2,322,211	2,304,905	2,114,968	0	2,386,361	2,395,361
**	9-1-1 OPERATIONS	2,322,211	2,304,905	2,114,968	0	2,386,361	2,395,361
***	TELECOMMUNICATIONS	2,322,211	2,304,905	2,114,968	0	2,386,361	2,395,361

BUDGET PREPARATION WORKSHEET  
FOR FISCAL YEAR 2016  
REVENUES AND EXPENDITURES

ACCOUNT NUMBER	ACCOUNT DESCRIPTION	ORIGINAL BUDGET FY 2014-2015	REVISED BUDGET FY 2014-2015	YTD ACTUAL FY 2014-2015	DEPARTMENT CONTINUATION FY 2015-2016	ADMIN BUDGET CONTINUATION FY 2015-2016	APPROVED BUDGET FY 2015-2016
201-4340-422.86-44	SCOTCH IRISH	43,921	47,146	45,030	0	65,222	65,222
201-4340-422.86-46	SOUTH ROWAN	7,333	8,333	5,352	0	6,462	6,139
201-4340-422.86-48	SOUTH SALISBURY	259,654	278,694	265,219	0	278,864	278,864
201-4340-422.86-50	UNION	115,294	122,979	117,622	0	113,878	116,156
201-4340-422.86-51	WEST ROWAN	191,412	212,062	200,959	0	224,697	224,697
201-4340-422.86-52	WOODLEAF	214,220	217,650	210,197	0	255,838	255,838
* EXPENDITURE		4,248,419	4,560,399	4,362,668	0	5,284,909	5,184,514
** FIRE DISTRICTS		0	0	883	0	0	0
*** EMERGENCY SERVICES		0	0	883	0	0	0
**** SP FIRE & SVS DIST TX FD		0	0	883	0	0	0

BUDGET PREPARATION WORKSHEET  
FOR FISCAL YEAR 2016  
REVENUES AND EXPENDITURES

ACCOUNT NUMBER	ACCOUNT DESCRIPTION	ORIGINAL BUDGET FY 2014-2015	REVISED BUDGET FY 2014-2015	YTD ACTUAL FY 2014-2015	DEPARTMENT CONTINUATION FY 2015-2016	ADMIN BUDGET CONTINUATION FY 2015-2016	APPROVED BUDGET FY 2015-2016
202-0000-355.50-00	TELEPHONE SURCHARGE-E-911	390,720-	773,553-	709,090-	0	634,000-	634,000-
202-0000-355.60-00	ADMINISTRATION FUNDS E911	0	0	0	0	0	0
202-0000-361.00-00	INTEREST REVENUE	100-	100-	940-	0	300-	300-
202-0000-395.00-00	FUND BALANCE APPR-RESTR	146,177-	0	0	0	0	0
*	REVENUE	536,997-	773,653-	710,030-	0	634,300-	634,300-
**	EMERGENCY TELEPHONE SYS	536,997-	773,653-	710,030-	0	634,300-	634,300-
***	EMERGENCY TELEPHONE SYS	536,997-	773,653-	710,030-	0	634,300-	634,300-

BUDGET PREPARATION WORKSHEET  
FOR FISCAL YEAR 2016  
REVENUES AND EXPENDITURES

ACCOUNT NUMBER	ACCOUNT DESCRIPTION	ORIGINAL BUDGET FY 2014-2015	REVISED BUDGET FY 2014-2015	YTD ACTUAL FY 2014-2015	DEPARTMENT CONTINUATION FY 2015-2016	ADMIN BUDGET CONTINUATION FY 2015-2016	APPROVED BUDGET FY 2015-2016
202-4615-395.00-00	FUND BALANCE APPR-RESTR	0	0	0	0	0	0
* REVENUE		0	0	0	0	0	0
202-4615-420.10-05	SALARIES:REGULAR	52,788	53,988	52,335	0	53,727	90,474
LEVEL 400	TEXT CONTINUATION AMOUNT EXPANSION-			TEXT AMT 53,727			
	1 TECHNOLOGY SPECIALIST (\$68279 25% PAID IN FUND 101)			36,747			
				90,474			
202-4615-420.20-05	HEALTH INSURANCE	10,854	11,404	11,035	0	10,886	16,916
202-4615-420.20-10	MEDICARE TAX	766	766	740	0	779	1,312
202-4615-420.20-15	RETIREMENT	3,732	3,822	3,700	0	3,799	6,397
202-4615-420.20-20	SOCIAL SECURITY TAX	3,273	3,273	3,165	0	3,331	5,609
202-4615-420.20-25	WORKERS COMPENSATION	942	942	209	0	236	971
202-4615-420.20-30	401(K) CONTRIBUTIONS	1,584	1,624	1,570	0	1,612	2,714
202-4615-420.32-19	ORTHOPOHYOGRAPHY	0	0	0	0	0	0
202-4615-420.33-17	CONTRACTED SERVICES	0	0	0	0	0	0
202-4615-420.34-30	SERVICE & MAINTENANCE	206,858	211,358	164,133	0	210,898	210,898
LEVEL 400	TEXT PRIORITY DISPATCH CENTURY LINK SALISBURY FIRST ESCHALON RADIO CONSOLE REPAIR CAROLINA RECORDING MOTOROLA RADIO MAINTENANCE 1/2 YEAR UPS AT 911 CENTER UPS AT 911 CENTER BATTERY REPLACEMENT OSSI CAD SALISBURY FIRST ESCHALON 911 PHONE REPAIR			TEXT AMT 27,265 30,000 18,000 25,700 24,216 6,100 22,350 54,767 2,500 210,898			
202-4615-420.43-15	R&M:EQUIPMENT	1,000	1,000	385	0	1,000	1,000
LEVEL	TEXT			TEXT AMT			

BUDGET PREPARATION WORKSHEET  
FOR FISCAL YEAR 2016  
REVENUES AND EXPENDITURES

ACCOUNT NUMBER	ACCOUNT DESCRIPTION	ORIGINAL BUDGET FY 2014-2015	REVISED BUDGET FY 2014-2015	YTD ACTUAL FY 2014-2015	DEPARTMENT CONTINUATION FY 2015-2016	ADMIN BUDGET CONTINUATION FY 2015-2016	APPROVED BUDGET FY 2015-2016
400	ANY ITEM NOT COVERED IN CONTRACTS			1,000 1,000			
202-4615-420.53-05	TELEPHONE	1,500	1,500	1,077	0	1,500	1,500
LEVEL 400	TEXT ONE POSITION IN THE COMM CENTER			TEXT AMT 1,500 1,500			
202-4615-420.53-07	TELEPHONE-E-911	0	30,000	29,761	0	0	0
LEVEL 400	TEXT THIS LINE CAN BE DELETED			TEXT AMT			
202-4615-420.53-08	TELEPHONE-NG911	211,200	161,400	94,180	0	248,800	248,800
LEVEL 400	TEXT THIS IS FOR REOCCURRING CHARGES FOR THE 911 PHONE SYSTEM 911 SERVICE FROM INTRADO AT AND Y SELECTIVE ROUTER SWITCH AT AND T LANGUAGE LINE			TEXT AMT  210,000 34,000 4,800 248,800			
202-4615-420.58-00	TRAVEL	3,000	3,000	845	0	3,000	3,000
LEVEL 400	TEXT THIS WILL COVER TRAVEL FOR ANY CLASSES ALLOWED BY THE 911 BOARD. I HAVE ABOUT 10 PEOPLE THAT NEED COMMUNICATIONS TRAINING OFFICER CLASS. I HOPE TO HAVE IT HERE BUT JUST IN CASE WE CANT			TEXT AMT  3,000 3,000			
202-4615-420.59-00	TRAINING	7,000	14,000	6,218	0	22,500	22,500
LEVEL 400	TEXT THIS IS USED TO PAY FOR NATIONAL CERTIFICATIONS ALL OF OUR EMPLOYEES ARE CERTIFIED FOR EMD, EPD EPD AND ETC THIS COSTS \$1100 PER PERSON USING LAST YEARS ATTRITION LIST I AM BUDGETING FOR 10 NEW EMPLOYEES THIS YEAR THIS IS ALSO USED TO RECERTIFY OUR EMPLOYEES IN EACH DISCIPLINE SINCE THE MAJORITY OF THE EMPLOYEE			TEXT AMT   11,000			

ACCOUNT NUMBER	ACCOUNT DESCRIPTION	ORIGINAL BUDGET FY 2014-2015	REVISED BUDGET FY 2014-2015	YTD ACTUAL FY 2014-2015	DEPARTMENT CONTINUATION FY 2015-2016	ADMIN BUDGET CONTINUATION FY 2015-2016	APPROVED BUDGET FY 2015-2016
	S WERE CERTIFIED IN IN 2014 THEY ARE DUE TO REGERT IN 2016.			7,500			
	I NEED TO SEND 4 EMPLOYEES TO A QUALITY ASSURANCE CLASS \$500 EACH			2,000			
	ANY OTHER THAT MAY COME UP			2,000			
				22,500			
202-4615-420.61-89	SOFTWARE LICENSES	0	0	0	0	0	0
202-4615-420.61-95	\$ SUPPLIES:OTHER SMALL EQMT	1,000	8,100	7,038	0	2,500	2,500
LEVEL 400	TEXT COVERS HEADSETS, REMOTE BASCS AND BATTERIES			TEXT AMT 2,500 2,500			
202-4615-420.72-20	C/A:E-911 FACILITY	0	0	0	0	0	0
202-4615-420.74-00	C/A:EQUIPMENT	23,000	58,200	33,600	0	0	0
202-4615-420.74-10	C/A:DATA PROCESSING	0	0	0	0	0	0
202-4615-420.74-30	C/A:SOFTWARE	0	0	0	0	0	0
202-4615-420.76-20	F/A:DP EQUIPMENT	0	1,200	1,030	0	0	0
202-4615-420.76-30	F/A:EQUIPMENT/FURNISHINGS	8,500	8,500	8,027	0	10,000	10,000
LEVEL 400	TEXT THIS COVERS REPLACEMENT COSTS OF THE 24x7 EXTREME USE CHAIRS FOR THE 911 CENTER. I TRY TO REPLACE 6 PER YEAR. I AM REPLACING 2 STANDARD CHAIRS WITH 2 EVEN HEAVIER CHAIRS FOR OUR WEIGHT CHALLENGED STAFF			TEXT AMT 10,000 10,000			
202-4615-420.76-90	F/A:OTHER	0	0	0	0	0	0
202-4615-420.98-00	RESERVE	0	199,576	0	0	59,732	9,709
*	EXPENDITURE	536,997	773,653	419,048	0	634,300	634,300
**	EMERGENCY TELEPHONE SYS	536,997	773,653	419,048	0	634,300	634,300
***	TELECOMMUNICATIONS	536,997	773,653	419,048	0	634,300	634,300

# North Carolina 911 Board Grant Application

## General Information

**Project Title**

**Grant Fiscal Year - 2017**

**Project Director**

**Project Contact**

**Project Contact Title**

**Address**

**Phone**

**Email**

*Three types of grants are available, as described below. In the box following these descriptions, please select the Grant Type which most appropriately fits your request.*

- **Consolidation** - A consolidation project involves combining one or more PSAPs with a primary PSAP with an integrated management structure that serves the same populations and jurisdictions previously served by offering grant funding for both PSAP costs authorized under G.S. 143B-1406(e) and costs not authorized under G.S. 143B-1406(e) to include construction costs.
- **Individual PSAP Enhancement/Replacement** - the relocation costs of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.
- **Regional Initiative Enhancement/Replacement** - Regional initiatives are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such initiatives comprise projects involving two or more primary PSAPs or a primary PSAP with approved secondary PSAPs. Costs of relocation of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.

**Grant Type**    *Regional Initiative Enhancement/Replacement*

**PSAP Name**    *Shelby Police Communications*

- 1.    *Has the Revenue/Expenditure Report for FY15 been completed and approved by the NC 911 Board Fiscal staff for the applicant PSAP?***

YES

- 2.    *Has the applicant PSAP submitted a plan and secured the means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP (backup plan)?***

YES

- 3.    *If the answer to #2 above is yes, does the PSAP have the means to implement the plan before 7/1/16?***

NO

- 4.    *If plan implementation will not occur before July 1, 2016, has an extension been requested?***

YES

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# Project Description

***Required for all grant types, this should be a thorough, concise, and complete description of the proposed project.***

## **5. Please outline project goals and objectives.**

The Shelby Police Department communications center strides itself in providing the highest quality of service for the citizens and visitors. Our primary objective is to relocate our communications center to a space in Uptown Shelby with the assistance of this grant funding and to centralize all functions of the communications center. Currently, our location is vastly undersized with barely enough room for our server needs. We have equipment essential to a proper functioning center in several different locations throughout our current environment. The need is strong for a new center and it is our hopes to outline this strong need of a new center in the outline below. (See attached Photos at end of report to show needs in regards to space)

**Objective A:** Provide a facility with ample and appropriate space and room for future growth. Current trends indicate that our the space available in our current communications center is in inadequate for continued operation. Our current location makes it extremely difficult as it relates to security of equipment as it is housed in many different locations throughout our current building. Space is at a premium and frankly we are out of viable space for any plans for any future growth in our current capacity.

**Objective B:** Move current equipment to new location. Currently we are looking to add one position to the three we currently have which will include furniture, 911 position and CAD computer . The plans will be to move the current equipment to a new locale if funding is approved.

**Objective C:** The new addition/locale will offer ample room for providing backup capability for Kings Mountain Police Department as well as the Cleveland County Sheriff Office. The currently facility is not capable of the above mentioned items. The new facility located at 110 W Warren St, is currently being remodeled for Police functions, and upstairs there is a large conference room with plenty of connectivity to be able to offer regional assistance to local departments in need. The room is connected by fiber cable that creates a redundant loop from the current Police building, to the Cleveland County Law Enforcement Center and to the Radion tower, equipment building located at 209 Buffalo St in Shelby. The conference room has upwards of 40 Cat five connections to be able to assist departments/ intencies with connectivity in times of need. The addition that this funding will help complete will house the Shelby Police Communications Center. We currently house 3 positions with two being manned 24-7 and are preparing for future growth by adding a fourth position, which will allow for future growth and a position will be utilized to house Kings Mountain PD for their backup plan.

**Objective D:** We have an approved backup plan with Kings Mountain PD and there is another being implemented for also becoming the backup for Cleveland County Communications. We have reached out to Rutherford County as well offering assistance in times of need, since at the time of this report, they were in the beginning stages of creating a backup plan. There is ample room/space for a regional operations center, and we plan to utilize the capabilities to the fullest but will need assistance from this grant to make it happen.

The Shelby Police Department Communications Center is responsible for dispatching all Police related services within the City of Shelby, NC. The 911 Center processes an average of 35,000 emergency phone calls annually and dispatches an average of 40,000 calls for service annually.

The center answers any 911 calls for service within the city limits of Shelby, and if EMS or Fire is needed those calls are transferred to Cleveland County Communications . The Communications center at the Shelby Police Department became one of the few in the state of North Carolina to become accredited through CALEA in 2014. The Chief of Police, Accreditation Manager and Service Division Manager traveled to Garden Grove California in March of 2014 to receive our accreditation award.

**6. Please provide an implementation strategy and work plan, including a timeline.**

The Shelby Police Department is currently expanding in two phases. The first phase, which consist of transitioning our law enforcement function into a new facility, to meet growth is currently underway and expected to be completed in sixty days. Phase 2 will involve construction of our new communications center that will be located adjacent to the phase 1 property. We have already begun the planning portion of phase 2 and anticipate the process to be expedited once the grant process is approved. Our goal in this program is to go live in our new facility within 12 months utilizing the outline below

**1-3 Months**

- Finalize structural design
- Finalize technology design
- Bid construction

**4-6 Months**

- Review budget and first quarter goals
- Select contractor and begin construction
- Procure technology systems

**7-9 Months**

- Review budget and second quarter goals
- Complete construction
- Install communications equipment
- Integrate technology

**10-12 Months**

- Test/Accept systems
- Train employees for cutover/migration to new center
- Commission and occupy new center

**7. Please identify the interface or compatibility between existing equipment and/or software and that which you intend to purchase.**

We will be looking to add a fourth position to the new center. The only additions will be a fourth radio console, 911 software, and furniture. We will utilize the current vendors to add the fourth position. No other substantial purchases as far as radio.911. furniture will be required at this time. We will move our current Servers, 911 positions, radio positions to the new location once the building has been constructed. The fourth position will be installed and functional before the move to ensure no down time between moving from old building to new

## Statement of Need

***Required for all grant types, this statement should reference the relationship of the grant project to NCGS §143b-1407(b) and the current funding priorities established by the Grant Policy and Procedures and include evidence of any financial need.***

### **8. Please indicate how your PSAP or group of PSAPs meets the statutory criterion of serving a rural or high cost area.**

The Shelby 911 PSAP is located in the City of Shelby, which is the largest municipality and county seat of Cleveland County, NC. The USDA Office of Management and Budget (OMB) designates Cleveland County as a rural, non-metro county (attached). The 911 center serves one of North Carolina's Tier II Counties as outlined by the attached report from the NC Department of Commerce entitled, "2016 County Development Tier Rankings". These rankings are based upon the statutory guidelines in North Carolina General Statute 143B-437.08. In addition, based upon data from the NC Rural Economic Center, Cleveland County is a designated one of the 80 rural counties located in our state, with an average population of 209 people per square mile. More information can be found at the following link, [www.ncruralcenter.org](http://www.ncruralcenter.org).

### **9. Please identify funding priorities, their impact on operational services, and consequences of not receiving funding.**

**Facility:** The current police department was constructed in 1980 and is a 9,000 square foot facility that was designed to house all police operations and also our communications center. The total roster for the department at the time of construction was fifty-three people. Today, we have 108 people and have not added any additional space.

Our communications center was originally set up for one telecommunicator and the equipment that was utilized in 1980. Little planning was done for growth or future technology needs of the department. Today, we have three console positions and operate with two and sometimes three telecommunicators. We have been able to work with the space we have, but our space needs have gotten to the point where hinder our daily operations. The server room we have is now full and has no room for additional equipment, we have been forced to put equipment in other areas of the department. This poses problems with maintenance as well as security. The ventilation in the server rooms is fair, but not adequate for the type of equipment we have.

In 2015 our city council approved the purchase of a 20,000 square foot facility located in downtown Shelby to be the new police department. While the facility is adequate for the police function, there is not enough space to house the communications center. With this in mind, we looked for options to be able to keep our entire operations under one roof. We have an addition that has been designed for the new facility that will give our communications center adequate space for daily operations as well as space to grow in the coming years. We developed the plans for the new center with the assistance of a private consultant, who conducted a space needs assessment for us. He worked with the architect firm we have hired and together they have designed a facility that will meet the needs of our communication center as well as our department. This design is one that not only provides for our needs today, but for years to come as we know the technology world is an ever-changing one.

An option we have for this new facility that will benefit both our city and surrounding cities is a large

room that can handle up to 40 individual connections to our server room and off-site servers. This area will be offered out to our region to be used in times of emergency or when a center goes down and needs a place to operate for a short period of time. This room has its own kitchen and restroom facilities and will also have access to shower facilities should someone need to stay onsite for an extended period of time.

**Equipment:** The equipment currently used in our center is still functioning properly and maintenance has been minimal. We are not asking for replacement of any of our current dispatch consoles or 911 systems. Due to the fact that we are looking at growth in the future and also that we will be serving as a back-up center for both the Kings Mountain Police Department and the Cleveland County Communications Center, we are requesting to purchase a fourth console position for the new center.

We currently have multiple smaller battery backups in our server room that maintain power during a power failure until the emergency generator is activated. With the new center, we are requesting funding to purchase one single battery backup system that will control all the computers in the center until the emergency generator is activated.

Our current facility utilizes an emergency generator located on our campus that is shared with city hall. The new facility will have one generator that will provide power to the main building in the event we experience a power failure and a second that will power only the communications center. The city will cover the expense of the main emergency generator and the second is included in the grant since it will only provide power to the communications center.

**Impact of Funding:** We are requesting a percentage of the total cost of this project due to the fact that it is a two story structure and the second floor will be utilized for functions outside the scope of the grant. The portion of the project that we are seeking grant funding for is the communications center and the cost associated with relocating our current center. The City of Shelby is prepared to pay for the remainder of the cost of the project through an appropriation of monies from a capital reserve fund specifically set up for this project several years ago.

The tax base for the City of Shelby has been in decline for several years now. The recently completed 2016 property revaluation conducted by Cleveland County after eight years saw the overall tax base value fall 8 percent. Our last tax increase was in July of 2007, with the one prior to that being in 1996. With little to no growth in our revenues for the city we only are able to maintain our current level of service provided by public safety, however, we are not in a position to incur an expense of this magnitude. We have inquired about other funding sources to help with this project, however at this time none have been identified as a viable possibility.

Given the financial status of our city, it is likely that if funding is not secured the project will not move forward and our communications center will remain in its current location and we will be forced to forgo the improvements we have planned.

**10. Please provide a copy of your PSAP's long-term or strategic technology plan and identify how the project fits within it.**

See Attachment of plan at end of report

**11. Please identify the likelihood of completing the project utilizing your 911 fund balance and the percentage of grant funding being requested in relation to total project costs.**

We are requesting a percentage of the total cost of this project due to the fact that it is a two story structure and the second floor will be utilized for functions outside the scope of the grant. The portion of the project that we are seeking grant funding for is the communications center and the

cost associated with relocating our current center. The City of Shelby is prepared to pay for the remainder of the cost of the project through an appropriation of monies from a capital reserve fund specifically set up for this project several years ago.

The tax base for the City of Shelby has been in decline for several years now. The recently completed 2016 property revaluation conducted by Cleveland County after eight years saw the overall tax base value fall 8 percent. Our last tax increase was in July of 2007, with the one prior to that being in 1996. With little to no growth in our revenues for the city we only are able to maintain our current level of service provided by public safety, however, we are not in a position to incur an expense of this magnitude.

Our current fund balance is \$186,099.50, which can be applied to the total cost of the project or to cover associated expenses. It is not sufficient to cover the entire cost, but can be used as an offset.

We have inquired about other funding sources to help with this project, however at this time none have been identified as a viable possibility.

Given the financial status of our city, it is likely that if funding is not secured the project will not move forward and our communications center will remain in its current location and we will be forced to forgo the improvements we have planned

# ***Regional Initiative Enhancement/Replacement Project***

***Required for all Regional Initiative Enhancement/Replacement project types.***

***Regional initiative enhancement/replacement projects are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such projects may involve two or more primary PSAPs.***

## **12. What is the relationship of participating PSAPs to the initiative? Provide MOUs between PSAPs identifying each participant PSAP's responsibilities to the project.**

The other PSAP's that will be a part of this project are, at present: Kings Mountain Police Department and the Cleveland County Communications Center. Both of these agencies are in partnerships with us to provide a backup facility. We will serve as the backup center to both agencies and have submitted plans and received approval for both. The signed MOU's are attached to this application.

We also have an ongoing relationship with the Cleveland County Communications Center that provides us opportunities to share equipment through fiber connectivity. We have a fiber loop that connects our facility to theirs so that we can share equipment such as recorders and, to some extent, server capability. During the backup plan process we are adding a microwave system that will connect our center to the Kings Mountain Police Department, so in the future we will have this same potential with their center as well.

We are looking to offer out to PSAP's in our region the ability to house their center in the case of an emergency that would require them to temporarily move offsite. This will be accomplished through technology within the facility that will allow members of a visiting PSAP to plug into our system and gain access to offsite servers they may have. Most centers will have a backup plan in place, so this will be an option for an additional resource should they need it.

## **13. Identify intended collaborative efforts between participating PSAPs.**

We will utilize the new addition to the building we recently purchased to house our communications center, as well as provide backup capabilities for Kings Mountain Police Department and the Cleveland County Sheriffs office. We currently utilize two positions at all times, however we currently have 3 positions. We will offer the third position to Kings Mountain PD for their backup purposes, and the fourth position we plan on adding will house the toning board and capabilities for Cleveland County communications. The large aforementioned conference room in the existing building we will house the other Cleveland County Communications personnel, and any other emergency management professionals in times of emergency. The room is large enough to house upwards of 40 personnel all with their own connectivity as well as a functioning kitchen, Cable TV access and phone connectivity to be able to remotely use 911 and other emergency functions. The new facility will be large enough to house emergency communications personnel for an inordinate amount of time, to facilitate collaborative efforts when it comes to times of emergency situations. upwards of 40 personnel all with their own connectivity as well as a functioning kitchen, Cable TV access and phone connectivity to be able to remotely use 911 and other emergency functions. The new facility will be large enough to house emergency communications personnel for an inordinate amount of time, to facilitate collaborative efforts when it comes to times of emergency situations

**14. Identify how resource sharing will take place.**

Shelby Police, Kings Mountain and Cleveland County all utilize the same Cad products. We also have comparable 911 equipment. We will house backup servers for CAD, 911 services for Kings Mountain and Cleveland County at our new location on West Warren St in Shelby. All equipment will be operational and at the ready in a very short amount of time without delay or loss in services to the communities we serve. For all intents and purposes it will be a co-locate between the three agencies who all utilize for the majority, the same products and services.

**15. Indicate how the initiative impacts the operational or strategic plans of the participating agencies.**

By the relocation of the 911 center, we will be able to provide not only additional space to be used by the agencies we are serving as a back up center for, but also services that will reach out to other agencies throughout our region. We will have the connectivity and resources available onsite to allow agencies to work off site during an outage, catastrophic event or similar instances.

The strategic plans of our agency include being able to further our service levels to our customers, but also to provide more comprehensive level of service to other agencies within our city. This new facility will allow for us to provide an Emergency Operations Center for our city departments and elected officials that will give them real time access to any event taking place in our city or immediate surrounding areas.

As we all look forward to prepare for an uninterrupted service level to our customer, having a facility that will allow an agency in our region to access their servers and continue use of their 911 center in a remote capacity is definitely a step in the right direction. As previously mentioned, Kings Mountain and Cleveland County will be utilizing our new location as their backup facilities. We have offered Rutherford County as well in case they need assistance down the line, and feel as though the regional initiative is a great way to make sure the citizens are still able to receive prompt service through collective collaborative efforts

**NOTE:** The following section on “Consolidation Project Plan” is **ONLY** required if your type of grant is a “Consolidation”. If your project **IS NOT** a Consolidation, proceed to question # 23 to complete the grant application.

**16. Indicate how a consolidation would take place and improve service**

Click or tap here to enter text.

**17. Indicate how the consolidated PSAP should be organized and staffed**

Click or tap here to enter text.

**18. Indicate what services the consolidated PSAP should perform**

Click or tap here to enter text.

**19. Indicate how consolidated PSAP policies should be made and changed**

Click or tap here to enter text.

**20. Indicate how the consolidated PSAP should be funded exclusive of grant funding**

Click or tap here to enter text.

**21. Indicate what changes or improvements should be made to inter-communications among the local governments participating in the consolidation in order to better support operations.**

Click or tap here to enter text.

**22. Discuss sustainability of the consolidation project during the proposed term of the project, and for the foreseeable future.**



## FINANCIAL DATA

**23. Current 911 Fund Balance**

**\$186,099.50**

**24. Amount Requested**

**\$1,151,241**

**25. Total Project Cost**

**\$1,151,241**

## Budget and Budget Narrative

***A budget and budget narrative must be supplied for all types of projects, as well as a copy of the applicant agency's approved FY 2016 PSAP budget***

### **26. List planned expenditures**

The proposed cost estimates were developed by City Staff utilizing the assistance of Talley & Smith Architecture, Inc. This firm has experience in programming public safety facilities, and is currently contracted by the City of Shelby for the programming of our new law enforcement center. The proposed facility is programmed to accommodate the required functional areas related to PSAP operations. All budget estimates are attached to this grant application.

The planned expenditures for this project are as follows:

#### **CONSTRUCTION**

The programming and construction of the 911 center ensures that the PSAP is located in a secure facility that meets and/or exceeds 911 Board standards, CALEA accreditation standards, and industry best practices. The estimated construction costs can be broken down into the following categories:

Facility Construction—\$595,436  
Generator/Electrical Systems—\$402,890.68  
Contingency—\$94,690  
**Construction Subtotal—\$1,041,592**

#### **TECHNOLOGY**

A technology assessment has been completed by city staff with the assistance of our 9-1-1 system maintenance provider, Wireless Communications. The following is a list of expenditures requested as part of this grant application. All other costs associated with technology will be funded on the local level.

911 Call-Taker Workstation (new)—\$14,566.81  
Installation and Relocation of 911 Call-Taker Workstations—\$43,658.26  
UPS Three-Phase Battery Backup—\$51,424.68  
**Technology Subtotal—\$109,467.75**

Construction Cost—	\$1,041,592
Technology Cost—	\$109,467.75
<b>Total Project Cost—</b>	<b>\$1,151,059.75</b>

### **27. Provide a budget narrative that briefly explains the reason for each requested budget item.**

#### **Construction Costs**

Facility Construction—\$595,436

This cost includes the construction of a 1,512 square foot facility located adjacent to the new City of Shelby Law Enforcement Center. This includes materials, labor, permits, fees, insurance, etc. (outlined in attached Schematic Design Construction Cost Estimate)

Generator/Electrical Systems—\$402,890.68

This cost includes the electrical wiring of the center and the installation of a generator system of

sufficient power to ensure the continued operation of the 911 communications center in the event of power failure.

Contingency—\$94,690

A contingency of 10% of the construction costs of this project is included in the construction estimate.

### **Technology Costs**

911 Call-Taker Workstation (new)—\$14,566.81

Costs associated with the purchase of a new (additional) 911 dispatch workstation for the PSAP. This workstation will be used for overflow events, and serve as a workstation for area PSAPs during emergency back-up operations.

Installation and Relocation of 911 Call-Taker Workstations—\$43,658.26

Costs associated with the installation of the above workstation and the relocation of the three workstations in the current 911 communications center.

UPS Three-Phase Battery Backup—\$51,424.68

Three-phase battery backup to ensure continued operations in the event of electrical failure in the communications center.

### **28. State how you will follow applicable procurement law, rules, and policies.**

The City of Shelby's Finance Director will serve as the fiduciary agency for this project. All project expenditures will adhere to applicable procurement laws, rules, and policies. All City of Shelby purchasing directives meet or exceed the requirements of Article 8 of the North Carolina General Statutes, specifically NCGS 143-129 and NCGS 143-131 that establishes procedures for formal and informal bidding processes. Expenditures made by the City conform to Generally Accepted Accounting Principles (GAAP) which are verified through an annual independent audit conducted by a firm of licensed certificated public accountants.

The City of Shelby has been awarded a Certificate of Achievement for Excellence in Financial Reporting by the Governmental Finance Officers Association (GFOA) for the last seventeen consecutive years. Project activities will also adhere to any additional requirements as set forth in the project's contract, and expenditure documents will be open for inspection by 911 Board representatives at any time

### **29. If the project will have ongoing expenses, such as monthly recurring charges, describe plans and specific sources for future/long-term funding and demonstrate how the project will be sustained in the future without additional 911 Grant Program funding.**

Recurring expenses associated with the acquisition and maintenance of equipment in the 911 communications center will be funded through the annual City of Shelby operating budget and through the annual funding allocation provided by the State 911 Board, as appropriate. At this time, there are no major increases in annual recurring expenses anticipated

# Evaluation

***All applications must include evaluation information. The final report shall include an evaluation demonstrating that the equipment or services funded by the grant have been purchased, installed/implemented, and are performing as expected.***

**30. Explain how your evaluation will measure the achievement of the goals and objectives identified in the Project Description with a timeline for meeting short, intermediate, and long term goals.**

The Project Team will be comprised of the Chief of Police, 911 Communications Director, city's Finance Director and a representative from the architectural firm contracted for this project. This Project Team will be responsible for conducting on-going evaluations to ensure that project milestones and deadlines are met. The evaluation of this project will be closely monitored using a number of variables to determine that all goals and deadlines are being met.

In addition, our Project Team will be supported by agency and city staff that will provide input and oversight to selected parts of the project.

The following is a list of preliminary milestones for this project:

## **1-3 Months**

- Finalize structural design
- Finalize technology design
- Bid construction

## **4-6 Months**

- Review budget and first quarter goals
- Select contractor and begin construction
- Procure technology systems

## **7-9 Months**

- Review budget and second quarter goals
- Complete construction
- Install communications equipment
- Integrate technology

## **10-12 Months**

- Test/Accept systems
- Train employees for cutover/migration to new center
- Commission and occupy new center

**31. Describe how evaluations will be conducted, including performance parameters which must be met in order to meet acceptance criteria.**

The Project Team that is comprised of the Chief of Police, 911 Communications Director, city's Finance Director and a representative from the architectural firm will be responsible for developing evaluation plans and tracking task completion/progress. Our Project team will work together to review each evaluation to ensure the project is moving forward toward completion as planned.

During Construction performance measures that are typically associated with construction, such as

required inspections, commissioning, and receipt of Certificate of Occupancy, will serve as construction benchmarks. During other phases of the project, such as IT and technology system procurement/installations, the Shelby Police Department will use accepted industry standards to ensure that we meet the grant requirements of the 911 Board.

**32. Identify how data will be collected and presented**

As mentioned above the project team will have the responsibility of collecting data for the project during all phases of construction. Data will be compiled and reviewed by the project team on a frequent basis to ensure project milestones are being met and are in compliance with applicable grant conditions. The 911 Director has been appointed by the Chief of Police to serve as chair of the project team, and will be the primary point of contact for all information. The 911 Director will serve as a direct point of contact with the 911 Board and will keep the board up-to-date on the project's status.

**Schematic Design Construction Cost Estimate**

**PROJECT:** Communications Center Addition  
**LOCATION:** Shelby, North Carolina  
**OWNER:** Shelby Police Department  
**ARCHITECT:** Talley & Smith Architecture, Inc.

**COST PLUS**

+++++

**203 Prince Ranier Street**  
**Clemson, SC 29631**

Tel.: 864/653-6320

E-Mail: CPEstimating@ATT.net

June 2, 2016

Estimator: R. Roark

Project No: 22-16

and

**Building Addition:**

+ First Floor 1,512 SF

**Total Building Addition 1,512 SF**

**TALLEY & SMITH**  
**ARCHITECTURE, INC.**  
 704.487.7082 SHELBY, NC  
 www.TalleySmithArch.com

**Probable Construction Cost Summary**

		<b>TOTAL COST</b>	<b>COST / SF</b>	<b>% OF COST</b>
02 SITE WORK		\$168,251	\$111.28	16.15%
02 SELECTIVE DEMOLITION		\$3,430	\$2.27	0.33%
03 CONCRETE		\$13,357	\$8.83	1.28%
04 MASONRY		\$44,203	\$29.23	4.24%
05 METALS		\$14,440	\$9.55	1.39%
06 WOOD & PLASTICS		\$7,779	\$5.14	0.75%
07 MOISTURE & THERMAL PROTECTION		\$22,519	\$14.89	2.16%
08 DOORS AND WINDOWS		\$15,875	\$10.50	1.52%
09 FINISHES		\$29,552	\$19.54	2.84%
10 SPECIALTIES		\$6,491	\$4.29	0.62%
11 EQUIPMENT		\$3,645	\$2.41	0.35%
12 FURNISHINGS		\$0	\$0.00	0.00%
15 PLUMBING		\$27,500	\$18.19	2.64%
15 FIRE PROTECTION		\$9,120	\$6.03	0.88%
15 HVAC		\$50,240	\$33.23	4.82%
16 ELECTRICAL SYSTEMS		\$351,466	\$232.45	33.74%
<b>SUBTOTAL</b>		<b>\$767,868</b>	<b>\$507.85</b>	<b>73.72%</b>
<b>MARK-UPS</b>				
- Sales Tax	7.00%	\$5,524	\$3.65	0.53%
- General Requirements	5.00%	\$38,393	\$25.39	3.69%
- Labor Burden	42.50%	\$8,418	\$5.57	0.81%
- Overhead & Profit	15.00%	\$115,180	\$76.18	11.06%
- Bonding & Insurance	1.50%	\$11,518	\$7.62	1.11%
<b>SubTotal:</b>		<b>\$946,902</b>	<b>\$626.26</b>	<b>90.91%</b>
* Estimating Contingency	5.00%	\$47,345	\$31.31	4.55%
* Escalation Contingency (12 mo.)	5.00%	\$47,345	\$31.31	4.55%
<b>Total Estimated Probable Construction Cost</b>		<b>\$1,041,592</b>	<b>\$688.88</b>	<b>100.00%</b>

## 02 SITE WORK

Item Description	Quantity	u/m	MATERIAL		LABOR		SUBCONTRACT		TOTAL COST
			u/c	Total	u/c	Total	u/c	Total	
Mobilization	1	LS		0		0	15,000	15,000	15,000
Layout / Staking	1	LS		0		0	2,268	2,268	2,268
Construction Fencing / Gates	410	LF		0		0	18	7,380	7,380
Construction Entrance	50	TN		0		0	32	1,600	1,600
Temp. Walkways	500	SF		0		0	4.25	2,125	2,125
<u>Selective Demolition:</u>									
- asphalt pavement	16,000	SF		0		0	0.74	11,840	11,840
- walks / curbs	1	LS		0		0	3,850	3,850	3,850
- misc. items	1	LS		0		0	1,500	1,500	1,500
<u>Erosion Control:</u>									
- temp. inlet protection	2	EA		0		0	135	270	270
- temp. silt fence	200	LF		0		0	4.75	950	950
- reinforced silt fence outlet	2	EA		0		0	150	300	300
- temp. check dam	2	EA		0		0	180	360	360
- rip rap	15	TN		0		0	38	570	570
- misc. erosion ctrl measures	1	LS		0		0	700	700	700
- Inspection / Maintenance	1	LS		0		0	1,500	1,500	1,500
<u>Grading:</u>									
Rough Grading	1,481	CY		0		0	6.70	9,926	9,926
- Final Grading	2,200	SY		0		0	1.50	3,300	3,300
<u>Storm Drainage Systems:</u>									
- catch basin	2	EA		0		0	3,450	6,900	6,900
- 18" storm pipe	100	LF		0		0	30	3,000	3,000
- roof leaders	160	LF		0		0	14	2,240	2,240
- Storm Water Detention Systems	N/A			0		0		0	0
<u>Site Utilities:</u>									
- Water Distribution	1	LS		0		0	4,500	4,500	4,500
- Sanitary Sewer	1	LS		0		0	1,800	1,800	1,800
- Electrical Service	1	LS		0		0	5,000	5,000	5,000
- Site Lighting	1	LS		0		0	15,000	15,000	15,000
<u>Drives / Parking / Walks:</u>									
- curb & gutter	400	LF		0		0	16.40	6,560	6,560
- asphalt paving: (6: 2 1/2)	1,800	SY		0		0	23.10	41,580	41,580
- concrete walks	750	SF		0		0	3.85	2,888	2,888
- precast wheel stops	2	EA		0		0	45	90	90
- "stop bar"	14	LF		0		0	3.25	46	46
- striping	800	LF		0		0	0.75	600	600
- directional arrows	4	EA		0		0	42	168	168
- handicap signs / symbols	2	EA		0		0	210	420	420
- signs	4	EA		0		0	180	720	720
Mechanical Enclosure	1	LS		0		0	5,800	5,800	5,800
Landscaping	1	LS		0		0	7,500	7,500	7,500
Irrigation Systems	N/A			0		0		0	0
<b>SUBTOTAL - SITE WORK</b>				0		0		168,251	\$168,251

## 02 SELECTIVE DEMOLITION

Item Description	Quantity	u/m	MATERIAL		LABOR		SUBCONTRACT		TOTAL COST
			u/c	Total	u/c	Total	u/c	Total	
<u>Remove: (Incl. Haul &amp; Dump)</u>									
- door / frame / hardware	2	EA		0		0	75	150	150
- cut / remove Exterior Wall	196	SF		0		0	8.65	1,695	1,695
- brick veneer	168	SF		0		0	3.80	638	638
- build temp. walls	168	SF		0		0	1.10	185	185
- misc finishes	200	SF		0		0	2.25	450	450
- misc. items	1	LS		0		0	312	312	312
SUBTOTAL - SELECTIVE DEMOLITION				0		0	3,430		\$3,430

## 03 CONCRETE

Item Description			Quantity	u/m	MATERIAL		LABOR		SUBCONTRACT		TOTAL COST
					u/c	Total	u/c	Total	u/c	Total	
<u>Wall Footings:</u>											
- excavation/backfill			28	CY		0	30	840		0	840
- trim sides			335	SF		0	0.45	151		0	151
- concrete			14	CY	114	1,596	50	700		0	2,296
- rebar			0.50	TN	980	490	400	200		0	690
<u>Slab on Grade :</u>											
- soil poisoning			1,258	SF		0		0	0.32	403	403
- finegrade			1,258	SF		0	0.25	315		0	315
- excavate / form depressed slab areas			1	LS	508	508	760	760		0	1,268
- rebar			0.28	TN	980	271	400	111		0	382
- concrete			26	CY	118	3,040	20	515		0	3,555
- crusher run base, 4" tk			22	TN	34	732	12	258		0	990
- vapor barrier			1,384	SF	0.05	69	0.03	42		0	111
- welded wire mesh			1,321	SF	0.43	568	0.15	198		0	766
- perimeter insulation			136	LF	1.72	234	0.48	65		0	299
- screeds			1,258	SF	0.02	25	0.02	25		0	50
- place & finish			1,258	SF		0		0	0.70	881	881
- protect & cure			1,258	SF	0.03	38	0.03	38		0	76
- expansion joint			134	LF	0.85	114	0.70	94		0	208
- control joint			110	LF	0.15	17	0.54	59		0	76
SUBTOTAL - CONCRETE						7,702		4,371		\$1,284	\$13,357

## 04 MASONRY

Item Description	Quantity	u/m	MATERIAL		LABOR		SUBCONTRACT		TOTAL COST
			u/c	Total	u/c	Total	u/c	Total	
<u>Exterior Masonry Walls:</u>									
- 8" c.m.u.	2,158	EA	1.62	3,496		0	4.30	9,279	12,775
- mortar	65	BG	11.45	741		0		0	741
- sand	11	TN	34	367		0		0	367
- grout fill	13	CY	135	1,726		0	125	1,599	3,325
- rebar	0.67	TN	980	658		0	475	319	977
- clean masonry	1,876	SF		0		0	0.40	750	750
Face Brick	1,831	SF		0		0	13.80	25,268	25,268
SUBTOTAL - MASONRY				6,988		0		\$37,215	\$44,203



## 05 METALS

Item Description		Quantity	u/m	MATERIAL		LABOR		SUBCONTRACT		TOTAL COST
				u/c	Total	u/c	Total	u/c	Total	
<u>Structural Steel:</u>										
- roof structure		2.70	TN		0		0	3,850	10,395	10,395
- misc.		1	LS		0		0	416	416	416
Metal Roof Decking		1,620	SF		0		0	2.24	3,629	3,629
SUBTOTAL - METALS					0		0		\$14,440	\$14,440

## 06 WOOD &amp; PLASTICS

Item Description	Quantity	u/m	MATERIAL		LABOR		SUBCONTRACT		TOTAL COST
			u/c	Total	u/c	Total	u/c	Total	
Treated Blocking / Plywood	469	BF	0.99	462	0.95	443		0	905
<u>Casework:</u>									
- base cabinets	11	LF		0		0	240	2,640	2,640
- wall cabinets	8	LF		0		0	150	1,200	1,200
- work counter	10	LF		0		0	110	1,100	1,100
- counter @ reception window	8	LF		0		0	125	1,000	1,000
Rough Hardware	1	LS	850	850		0		0	850
Window Sills, 1" solid surface	6	LF		0		0	14	84	84
<b>SUBTOTAL - WOOD &amp; PLASTICS</b>				1,312		443		\$6,024	\$7,779

## 07 MOISTURE &amp; THERMAL PROTECTION

Item Description	Quantity	u/m	MATERIAL		LABOR		SUBCONTRACT		TOTAL COST
			u/c	Total	u/c	Total	u/c	Total	
T.P.O. Roofing System (complete)	16	SQ		0		0	810	12,960	12,960
Metal Wall Coping	134	LF		0		0	12.40	1,662	1,662
Gutters	54	LF		0		0	14	756	756
Downspouts	48	LF		0		0	9.35	449	449
Rigid Insulation / Water Barrier	1,876	SF		0		0	2.18	4,090	4,090
Fascia System	136	LF		0		0	9.40	1,278	1,278
Sound Batt	1,560	SF		0		0	0.56	874	874
Caulking & Sealants	1	LS		0		0	450	450	450
Sprayed-on Fireproofing	N/A			0		0		0	0
<b>SUBTOTAL - MOISTURE &amp; THERMAL PROTECTION</b>				0		0		\$22,519	\$22,519

## 08 DOORS &amp; WINDOWS

Item Description	Quantity	u/m	MATERIAL		LABOR		SUBCONTRACT		TOTAL COST
			u/c	Total	u/c	Total	u/c	Total	
Hollow Metal Exterior Doors: 3/0 x 7/0	1	EA	550	550	100	100		0	650
<u>S.C.W.D. Doors:</u>									
- 3/0 x 7/0, flush	2	EA	190	380	75	150		0	530
- 3/0 x 7/0, w/ view glass	5	EA	250	1,250	75	375		0	1,625
- "security door"	1	EA	880	880	150	150		0	1,030
Door Hardware	1	LS	5,025	5,025	665	665		0	5,690
Hollow Metal Door Frames	9	EA	120	1,080	45	405		0	1,485
<u>Glass Systems:</u>									
- exterior windows (2/0 x 4/0)	3	EA		0		0	435	1,305	1,305
- interior (4/0 x 4/0)	1	EA		0		0	360	360	360
- interior (2/0 x 3/0)	2	EA		0		0	200	400	400
- reception window (bullet resistant)	1	EA		0		0	2,800	2,800	2,800
<b>SUBTOTAL - DOORS &amp; WINDOWS</b>				9,165		1,845		\$4,865	\$15,875

## 09 FINISHES

			MATERIAL		LABOR		SUBCONTRACT		TOTAL COST
Item Description	Quantity	u/m	u/c	Total	u/c	Total	u/c	Total	
<u>Floors:</u>									
- Raised Access Floor w/ finish	930	SF		0		0	10.25	9,533	9,533
- vct	446	SF		0		0	2.50	1,115	1,115
- porcelain tile	136	SF		0		0	12.70	1,727	1,727
<u>Base:</u>									
- rubber	338	LF		0		0	1.65	558	558
- porcelain tile	66	LF		0		0	9.25	611	611
<u>Interior Walls:</u>									
- 3 5/8" metal studs	1,704	SF		0		0	1.90	3,238	3,238
- 5/8" gwb	3,264	SF		0		0	1.56	5,092	5,092
<u>Ceilings:</u>									
- ACT (2' x 2')	1,512	SF		0		0	2.85	4,309	4,309
<u>Painting:</u>									
- painting (walls)	3,380	SF		0		0	0.54	1,825	1,825
- epoxy (walls)	660	SF		0		0	0.90	594	594
- doors / frames	9	EA		0		0	50	450	450
- miscellaneous	1	LS		0		0	500	500	500
SUBTOTAL - FINISHES				0		0		\$29,552	\$29,552

## 10 SPECIALTIES

Item Description	Quantity	u/m	MATERIAL		LABOR		SUBCONTRACT		TOTAL COST
			u/c	Total	u/c	Total	u/c	Total	
<u>Toilet Accessories :</u>									
- grab bars, 18"	2	EA	40	80	12	24		0	104
- grab bars, 36"	2	EA	60	120	12	24		0	144
- grab bars, 42"	2	EA	72	144	12	24		0	168
- toilet tissue disp.	2	EA	44	88	10	20		0	108
- soap dispenser	2	EA	38	76	12	24		0	100
- MR (18" x 36")	2	EA	85	170	10	20		0	190
- warm air dryer	2	EA	435	870	75	150		0	1,020
- paper towel dispenser	2	EA	135	270	10	20		0	290
- sanitary napkin disposal	1	EA	35	35	12	12		0	47
Fire Extinguishers / Cabinets	2	EA	235	470	75	150		0	620
Interior Signage	1	LS		0		0	1,200	1,200	1,200
Lockers	10	EA		0		0	250	2,500	2,500
SUBTOTAL - SPECIALTIES			2,323		468		\$3,700		\$6,491

## 11 EQUIPMENT

Item Description	Quantity	u/m	MATERIAL		LABOR		SUBCONTRACT		TOTAL COST
			u/c	Total	u/c	Total	u/c	Total	
Residential Appliances	1	LS		0		0	3,400	3,400	3,400
TV Bracket	1	EA		0		0	245	245	245
Visual Display Boards	By Owner			0		0		0	0
Communication Stations				0		0		0	0
T.V.				0		0		0	0
SUBTOTAL - EQUIPMENT				0		0		\$3,645	\$3,645

## 12 FURNISHINGS

Item Description	Quantity	u/m	MATERIAL		LABOR		SUBCONTRACT		TOTAL COST
			u/c	Total	u/c	Total	u/c	Total	
Office Furniture	By Owner			0		0		0	0
Window Treatments	By Owner			0		0		0	0
SUBTOTAL - FURNISHINGS				0		0		\$0	\$0

15 PLUMBING	1	LS		0		0	27,500	27,500	\$27,500
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15 FIRE PROTECTION	1	LS		0		0	9,120	9,120	\$9,120
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15 H.V.A.C.	1	LS		0		0	50,240	50,240	\$50,240
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## 16 ELECTRICAL SYSTEMS

Item Description	Quantity	u/m	MATERIAL		LABOR		SUBCONTRACT		TOTAL COST
			u/c	Total	u/c	Total	u/c	Total	
- Building Power & Lighting	1	LS		0		0	54,360	54,360	54,360
- Fire Alarm System	1	LS		0		0	26,000	26,000	26,000
- U.P.S.	1	LS	51,425	51,425	12,681	12,681		0	64,106
- Communications & I.T. Systems	1	LS		0		0	15,000	15,000	15,000
- Emergency Generator (full capacity)	1	LS		0		0	144,000	144,000	144,000
- Back-Up Emergency Generator	1	LS		0		0	48,000	48,000	48,000
SUBTOTAL - ELECTRICAL SYSTEMS				51,425		12,681		\$287,360	\$351,466

SUBTOTAL				\$78,915		\$19,808		\$669,145	\$767,868
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## MARK-UPS:

- Sales Tax	7.00%								\$5,524
- General Requirements	5.00%								\$38,393
- Labor Burden	42.50%								\$8,418
- Overhead & Profit	15.00%								\$115,180
- Bonding & Insurance	1.50%								\$11,518

SUBTOTAL									\$946,902
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* Estimating Contingency	5.00%								\$47,345
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* Escalation Contingency (12 mo.)	5.00%								\$47,345
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TOTAL ESTIMATED PROBABLE CONSTRUCTION COST									\$1,041,592
--	--	--	--	--	--	--	--	--	-------------

unit cost

\$688.88 per sq. ft.



215 S Trade street  
Shelby, NC 28150  
p. P-(704)487-4311  
f. F-(704)487-4380  
[www.pharrtechnologies.com](http://www.pharrtechnologies.com)

## Quotation

<b>Quote #</b>	7098
<b>Terms</b>	NET 30
<b>Contact</b>	Mark Seagroves <a href="mailto:mark.seagroves@cityofshelby.com">mark.seagroves@cityofshelby.com</a> (704)472-1419
<b>Quote Date</b>	6/2/2016
<b>Expires</b>	7/2/2016

**Sales Rep:** David Pharr  
[dtp@pharrtechnologies.com](mailto:dtp@pharrtechnologies.com)  
p. 704-487-4311

### Customer

City of Shelby  
Mark Seagroves  
300 S. Washington Street  
Shelby, NC 28150  
Please Select...  
(704)484-6858

### Bill To

City of Shelby  
Accounts Payable  
300 S. Washington Street  
Shelby, NC 28150  
Please Select...  
(704)484-6858

### Ship To

City of Shelby  
300 S. Washington Street  
Shelby, NC 28150  
Please Select...  
(704)484-6858

Description	Customer PO	Contract	Ship Via
Terry Grayson, Police Dept. - Wireless Comm - UPS Three Phase Battery Backup			FedEX Priority Overnight

Item	Mfg	Qty	Description	Price	Extended Price
1	Eaton Corporation	1	Eaton 9355 with 64-Battery (3-high) 15 kVA (13.5kW) 15kVA / 13.5kW On-line topology; ABM technology; (2) X-slot communication bays; REPO contact; Includes internal maintenance bypass switch; Tower form factor. Requires input neutral. Includes on-site 5x8 startup. Input Voltage: 208Y/120V Output Voltage: 208Y/120V Input Connection: Hardwired Output Connection: Hardwired Estimated runtime (full load/half load): 13.3/32.3 minutes Dimensions (H" x W" x D") 47.8 x 12 x 33.7 Weight (lbs): 609	\$20,567.00	\$20,567.00
2	Eaton Corporation	3	Eaton 9155/9355 EBM 96 (3-high) 9155/9355 EBM Estimated runtime (@ 53% Load): 242 minutes Dimensions (H" x W" x D") 47.8 x 12 x 30.2 Weight (lbs): 710	\$8,702.00	\$26,106.00
3	Pharr Technologies	1	UPS Installation and Configuration - UPS Setup, Assist City Electrical Contractor/Employee with electrical hookup (Pharr Technologies is not an Electrical Contractor. An electrician is to be provided by the city), Configure monitoring.	\$1,500.00	\$1,500.00

Sub Total: \$48,173.00  
Shipping and Handling: \$0.00  
Tax Amount: \$3,251.68  
**Total \$51,424.68**

Accepted  
By:

Date: \_\_\_\_\_

Totals may not include appropriate Taxes or Shipping Fees.  
All prices are subject to change without notice. Supply subject to availability.  
All Quotes and Pricing are Proprietary and Confidential.



**May 20, 2016**

**Customer: Shelby Police Department**

**Quote: Relocate Guardian 9-1-1 System**

QTY	DESCRIPTION	TOTAL
1	Guardian Call Taker Workstation including:	\$ 14,566.81
1	19IN Monitor	
1	24 Key Genovation Keypad	
1	Netclock Command Center Package	\$ 10,355.13
1	Turn Key Installation Services	\$ 30,843.82
1	24x7 Remote Monitoring Service	\$ 573.33
1	Solacom Software Support	\$ 1,733.33
1	Shipping	\$ 152.65
<b>Total:</b>		<b>\$ 58,225.07</b>
<i>(This is a turnkey quote for the E9-1-1 system including installation, warranty and software support for 1 year)</i>		

## Attachment : 911 PSAP Budget



06/03/2016 13:50  
BradFraser

CITY OF SHELBY  
SPD

P 1  
glytdbud

FOR 2016 13  
ORIGINAL APPROP      TRANS/ADJSMTS      REVISED BUDGET

210 EMERGENCY TELEPHONE SYSTEM FUN

432 911 PSAP

210432 41521	911 FURNITURE		
500.00		0.00	500.00
210432 41522	911 SOFTWARE		
20,000.00		0.00	20,000.00
210432 41523	911 HARDWARE		
7,000.00		0.00	7,000.00
210432 44202	911 PHONE SYSTEM		
53,000.00		0.00	53,000.00
210432 44202 VOIP	911 TELEPHONE SYSTEM		
0.00		0.00	0.00
210432 44204	911 50% SPEND-DOWN EXPENDITURE		
0.00		0.00	0.00
210432 44802	TRAVEL & TRAINING EXPENSES		
3,000.00		0.00	3,000.00
210432 51000	CAPITAL EQUIPMENT		
0.00		0.00	0.00
210432 59100	CONTINGENCIES		
16,873.00		0.00	16,873.00
	GRAND TOTAL		
100,373.00		0.00	100,373.00

\*\* END OF REPORT - Generated by Brad Fraser \*\*

REVISIONS:

DATE	DESCRIPTION

COLOR LEGEND:

- 911 CALL CENTER
- COMPUTER/TECHNOLOGY
- ADMINISTRATIVE
- SUPPORT
- EXISTING
- NEW WALLS

3024 TOTAL SQUARE FEET  
OF NEW CONSTRUCTION

SCHEMATIC

PROGRESS PRINT  
NOT FOR CONSTRUCTION



TALLEY & SMITH  
ARCHITECTURE, INC.  
SHELBY, NORTH CAROLINA  
P.O. BOX 518 (28151-0518) 704-487-7082  
409 E. MARION ST. (28150) FAX 704-482-5596

COMMUNICATIONS  
CENTER ADDITION  
SHELBY POLICE DEPT.  
Shelby, North Carolina

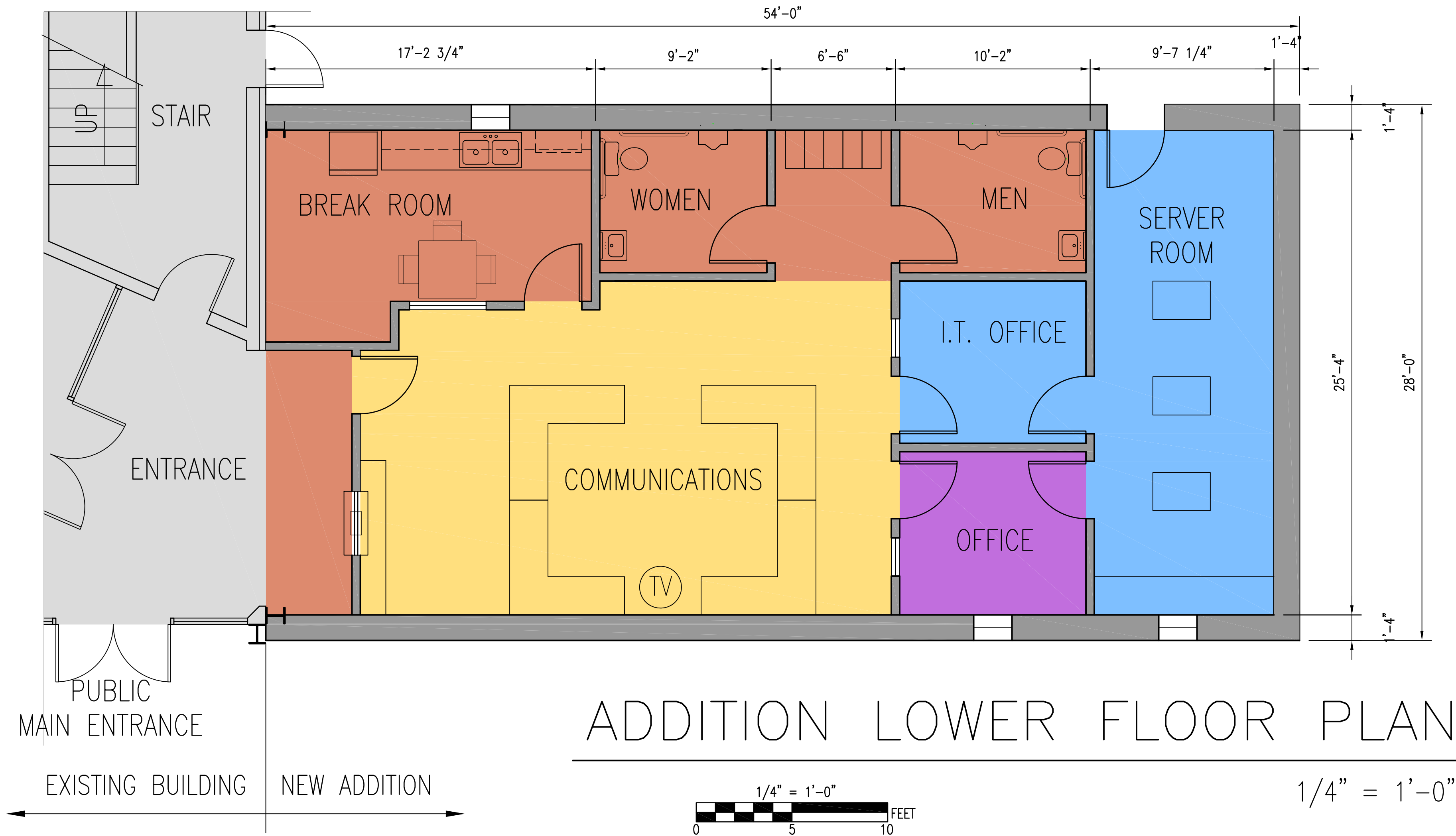
COMM. NUMBER: 013  
DATE: 10/23/2016

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SHEET

A2

2 OF 2









PLOT SCALE:  $1/8" = 1'-0"$

REVISIONS:

DATE	DESCRIPTION

COLOR LEGEND:

-  911 CALL CENTER  
 COMPUTER/TECHNOLOGY  
 ADMINISTRATIVE  
 SUPPORT  
 EXISTING  
 NEW WALLS

INCOMPLETE  
PROGRESS PRINT  
NOT FOR CONSTRUCTION



**TALLEY & SMITH**  
**ARCHITECTURE, INC.**  
SHELBY, NORTH CAROLINA  
P.O. BOX 518 (28151-0518) 704-487-7082  
409 E. MARION ST. (28150) FAX 704-482-5596

COMMUNICATIONS  
CENTER ADDITION  
SHELBY POLICE DEPT.  
Shelby, North Carolina

COMM. NUMBER: 813  
DATE: May 31, 2016

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SHEET

# A1

OF 2



COMPOSITE LOWER FLOOR PLAN

$$1/8'' = 1'-0''$$



# Shelby Police Department Communication Center



*Strategic Plan*

*Term: 2016 – 2019*



# **Mission Statement**

To provide our citizens and guests a safe environment in which to live and work, through a professional delivery of service, with a honest and fair police professional who exhibits the highest standards of professionalism.

## **Core Values**

Honesty

Teamwork

Integrity

Professionalism

Respect

## **Vision Statement**

To be a recognized leader in our community by providing the highest level of customer service.

## **Methodology**

The Service Division Manager worked with the staff and leadership of the Shelby Police Department's Communication Center as well as the Chief of Police to identify the most pressing issues that are currently facing the communication center and also issues and trends that must be addressed over the course of the next three years.

These issues have been included in this plan and have been broken down into goals that need to be addressed along with objectives on how best to meet each goal.

## **Shelby Police Department Service Division**



The Service Division, under the leadership of the Service Division Manager Terry S. Grayson is comprised of 11 full time and 6 part time civilian employees. These employees are responsible for emergency communications and records management functions. Each of these employees has obtained the Division of Criminal Information certification and each full time employee has earned their Telecommunicator's Certificate through the NC Sheriff's Training and Standards Commission.

The Shelby Police Department's Communications Center is manned 24 hours per day, 7 days a week. We are responsible for receiving and dispatching calls for service. Communications personnel are responsible for logging each call for service in our Computer Aided Dispatch (CAD) system, then dispatching the officers through communications using an 800 mhz radio system. The Records Management section is responsible for maintaining all records and criminal papers processed by our department. This section is currently staffed with one full time employee. The Records clerk also assists with customer service by answering incoming non-emergency calls and assisting walk in customers.

The Service Division staff members are normally the "first contact" with customers and we strive to demonstrate customer service and professionalism with each interaction. We pride ourselves in knowing that we are able to provide a prompt and courteous service to those that we come in contact with on a daily basis.

The year 2014 was an exciting year for our team. The Communications center became the third in the state of North Carolina to be nationally recognized as accredited through CALEA. We believe this esteemed prize sets us apart in how we conduct business on a daily basis. The employees take great pride knowing not only that we achieved accredited status, but that we are the smallest communications center in the state , and one of the smallest communication centers in the entire country to be awarded this prestigious award.

As previously stated we prides ourselves in having exemplary customer service, and strive to treat each customer's needs in a prompt and timely manner.

### **Challenges**

The Shelby Police Department's Communication Center faces the following main challenges for the time-frame of this plan:

- Space needs for telecommunicators as well as equipment
- Expanding interoperability beyond Cleveland County PSAP's
- Insure that the communications center has continuity of service and operations
- Upgrades and integration of new technology as it relates to the operation of the center
- Prepare staff for future leadership positions

These circumstances demand for the communication center to have a strategic plan to steer staff in the right direction and map out a course of action to further enhance both the working environment of the employees and the delivery of service to our customers.

## **Strategic Goals**

### **1. SPACE NEEDS FOR TELECOMMUNICATORS AND EQUIPMENT**

#### **Background**

The current communications center has been in operation since 1980 and was originally designed for 1 telecommunicator on duty at a time. At the time it was opened it was set up for the technology which was used at the time, however not much thought was given to expansion or growth of the system.

The computer systems and servers have grown significantly over the years and have caused us to move some of the servers out of the room and into other rooms within the police department. The rooms currently being used are full with no room for growth. The ventilation in the rooms where the servers are located is not sufficient since they were not designed to house such equipment. Security of these rooms is also an issue given that they are spread out throughout the department.

We currently have two telecommunicators on duty and in some cases three. Where there was once a single dispatch console, now there are three in the same space. The telecommunicators are given limited space to work and also for privacy.

Goal: Move the communications center to the new facility so that the employees have adequate room to operate and equipment can be stored and maintained in the proper environment.

Objective 1. Conduct space needs assessment to determine the needed space for the communications center.

Objective 2. Work with consultant and architects to design a facility with the recommendations of the space needs study.

Objective 3. Work with chief and city manager on funding for new center and complete any necessary grant applications.

### **2. EXPAND INTEROPERABILITY BEYOND CLEVELAND COUNTY PSAP'S.**

#### **Background**

One of the emerging trends in the communications world is interoperability. The ability to communicate with agencies in and around our county is vital to working through emergencies and ensuring that the needs of the community are met. The backup plan required by the state has been completed, so connectivity between the two PSAP's in our

county has been established. The next step will be connectivity and communication between PSAP's in our region will further enhance our capabilities and service delivery.

Goal: Establish interoperability beyond Cleveland County PSAP's and ensure communication with others in our county and region.

Objective 1. Determine the capability of our communication system and exactly what organizations, cities and counties we can currently communicate with.

Objective 2. Identify the means necessary to communicate with other entities and conduct an inventory to determine any needs we have in order to establish viable communications.

Objective 3. Identify regional PSAP's and what needs there would be to host a visiting agency and allow them to function in time of crisis.

Objective 4. Identify other agencies that we would have a need to communicate with and ensure that we have the radio capability to communicate should the need arise. An example of this would be any state or federal agency that may work in or around Shelby.

### **3. ENSUR THAT OUR COMMUNICATION CENER HAS CONTINUITY OF SERVICE AND OPERATIONS.**

#### Background

The backup plan that was put into place was a mandate by the 911 Board to ensure that if a PSAP were to go down for any reason, they would be able to move to an alternate location and continue with their basic mission. This plan is in place and has been approved, but it is now important for us to be aware of the operations of the agencies that will be using our facility. Equally as important is for our communications center to have a strong operations plan that lays out how we function on a day to day basis and what levels of service are expected. While we have standard operating procedures and guidance from our accrediting agency, CALEA, we must constantly review and revise this plan on a regular basis to keep up with changing times and procedures.

Goal: To familiarize ourselves with the operating procedures of other PSAP's in our county and to conduct annual reviews of our own operating procedures and make adjustments accordingly.

Objective 1. Gather standard operating procedures from agencies included in our backup plan and familiarize our leadership team with each one to know what to expect.

Objective 2. Review our own operating procedures to ensure we are operating within our guidelines and to determine areas of improvement.

Objective 3. Review CALEA standards with staff on an annual basis to make sure we have complete understanding.

#### **4. UPGRADE AND INTEGRATION OF NEW TECHNOLOGY AS IT RELATES TO THE OPERATION OF THE COMMUNICATIONS CENTER.**

##### Background

Technology in the communications world is constantly changing. Computer systems are constantly being upgraded and systems are requiring more and more updates. The programs we use on a daily basis are also being upgraded and need to be checked on a regular basis to ensure that we are using the most current releases. The 911 system and other major components of the communications center are undergoing changes frequently and new and improved models are being released. We must monitor these changes to make sure that we are using the best and most advanced system available, as well as monitoring funding options to help with any capitol purchases we must make.

Goal: Monitor and upgrade technology within the communications center.

Objective 1. Review all current operating systems and make sure we are using the most current system available and that all maintenance and upgrades are being done.

Objective 2. Review all in-house computer programs such as CAD and RMS to make sure we have the most current version and that everything is working properly.

Objective 3. Communicate with other PSAP's in our county to determine if any of the capitol purchases can be make together and shared via fiber connectivity or microwave.

#### **5. PREPARE STAFF FOR FUTURE LEADERSHIP POSITIONS**

##### Background

Preparing our next generation of leaders is one of the core responsibilities of a manager and good leader. As time goes on, our department will experience changes in key leadership positions within the communications center. With retirements will come a loss of a wealth of information. We must be constantly educating our staff about the operation of the communication center and making sure that they know why things are done and that all areas are covered by more than one person who knows the responsibilities involved. When areas of importance or limited to one or two people, it reduces the seamless continuation of service need in times of transition.

Goal: Prepare staff for any future advancement opportunities.



Objective 1. Create a succession plan that will ensure a continuity of leadership within the communications center.

Objective 2. Identify areas where staff members should be trained and educated about the day to day operations of the center.

Objective 3. Work with the leadership team to determine if there are any gaps in what the staff members know about the center or the programs, procedures and practices that take place.

### Conclusion

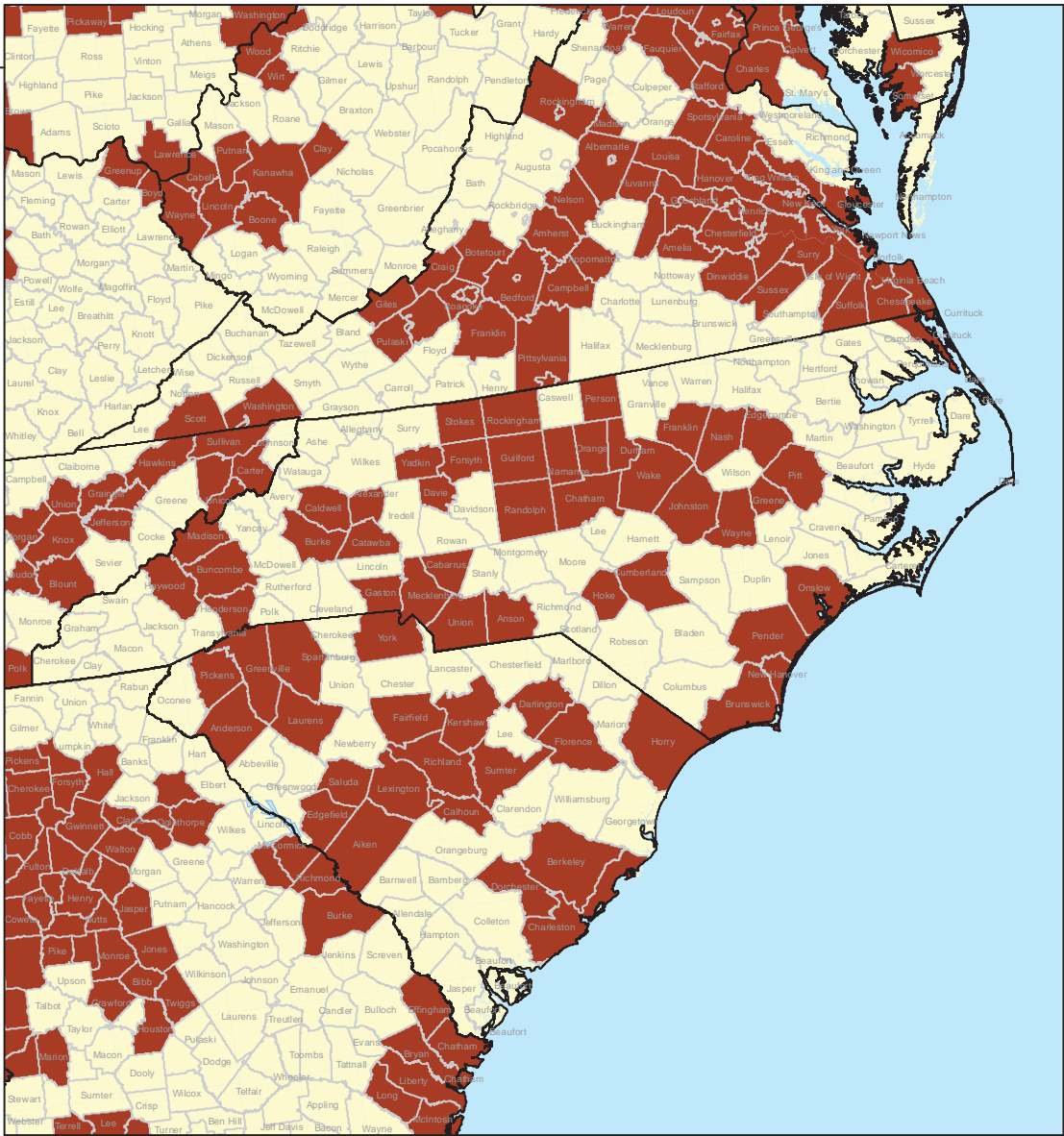
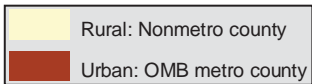
This strategic plan is to be viewed as a road map to guide us through the next three years in how we manage and prepare our communications center. Some of the goals in this plan are specific to the communications center environment, while others are in direct support of our department and city goals. Our primary function as a communication center is to receive and process emergencies and other needs of our customers. This plan is designed to help us be the best we can possibly be at our jobs and also to provide the citizens of Shelby with the best service available in their time of need.

This plan will be reviewed on an annual basis to ensure compliance and forward progress and will be updated at the appropriate time.

Question #8 Attachment : Rural Definition

North Carolina

Rural definition based on Office of Management and Budget (OMB) metro counties



For more information on definitions, see documentation

## Attachment Question #5

Current Communications Center (Barely large enough for our three positions, no room for growth)



## Attachment Question #5

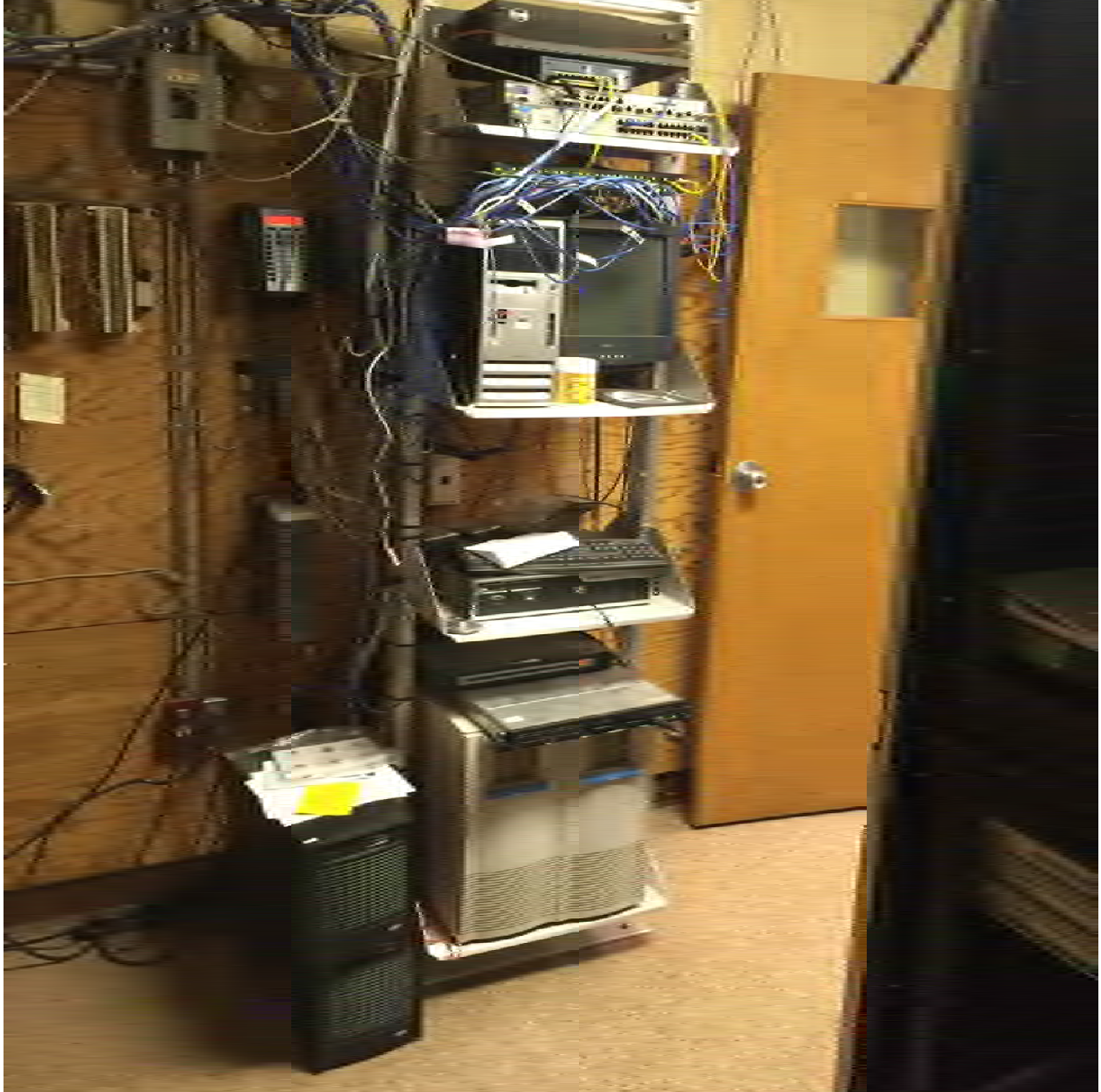
Current Communications Center 2<sup>nd</sup> picture (Barely large enough for our three positions, no room for growth)





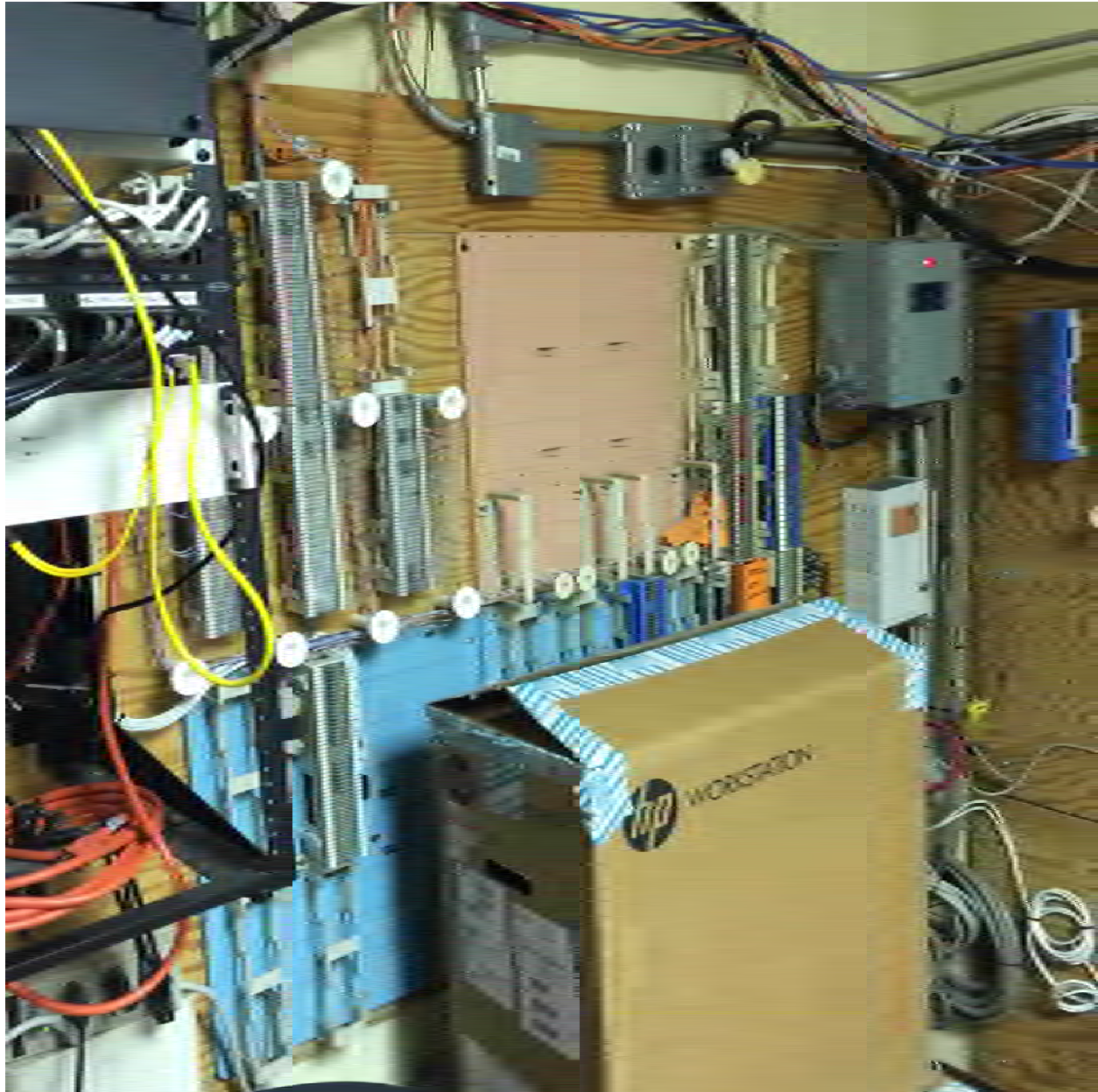
## Attachment Question #5

Current Server room (Two rooms adjacent to Comm Center) No Room for growth



## Attachment Question #5

Current Server room 2 (Two rooms adjacent to Comm Center) No Room for growth





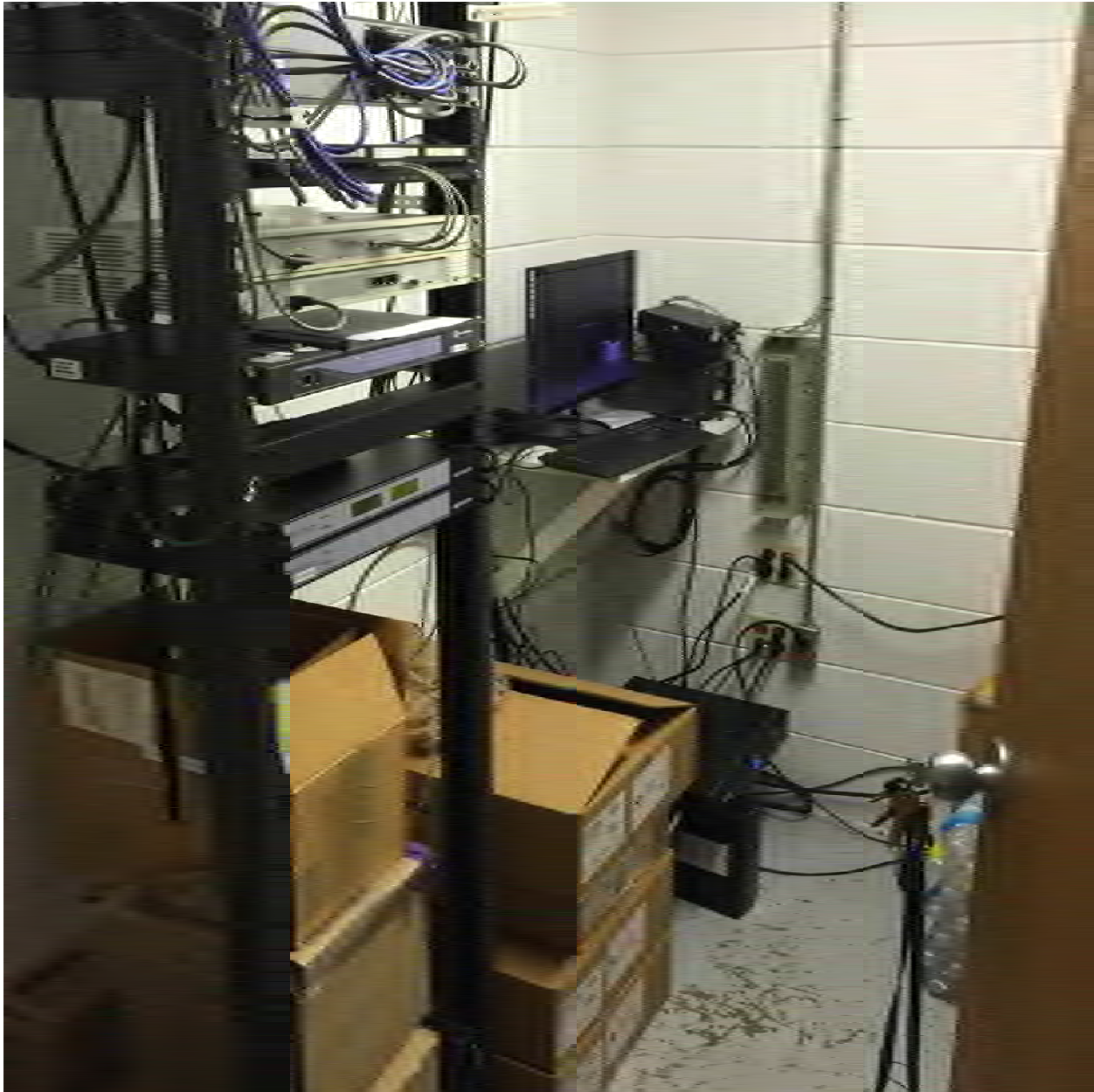
## Attachment Question #5

Server room 3 (Note small walking area, CAD/RMS/911 servers on left)



## Attachment Question #5

Radio Equipment/Netclock Server / Uptown Camera System Server (Small closet upstairs)



These few pictures show the need for more space, there is no room for growth in our current environment, We have our main CAD/RMS/911 Servers basically in a small walkthrough area between Records and a Hall (Which is two rooms over from the comm center) Our radio equipment and other pertinent servers are in a small closet upstairs . The need for more space is paramount for growth, or being able to properly serve as a backup / regional operation for assistance to other departments in time of need.



# Shelby Police Department

Post Office Box 207  
Shelby, North Carolina 28151-0207  
(704) 484-6845

June 3, 2016



SHELBY POLICE  
DEPARTMENT

JEFFREY H. LEDFORD  
CHIEF OF POLICE



Since 2001

Richard Taylor, ENP  
Executive Director  
NC E911 Board  
Post Office Box 17209  
Raleigh, NC 27619

Mr. Taylor,

Please accept this grant application for consideration as part of the 2016-17 NC E911 Board grant cycle. We anticipate that this project will not only enhance the level of service provided to our community, but will enable our communications center to serve as a resource to other PSAP's in our region in the event of a critical incident. We look forward to partnering with the 911 Board on this project as we work together to enhance the capabilities of our regional 911 initiative.

If I can be of any assistance, please don't hesitate to call me. I can be reached on my cell at (980) 522-6010, or by email at [jeff.ledford@cityofshelby.com](mailto:jeff.ledford@cityofshelby.com).

Sincerely,

Jeff Ledford  
Chief, Shelby Police Department



June 1, 2016

Richard Taylor, ENP  
Executive Director  
Office of Information Technology Services  
NC 911 Board  
Post Office Box 17209  
Raleigh, North Carolina 27619-7209

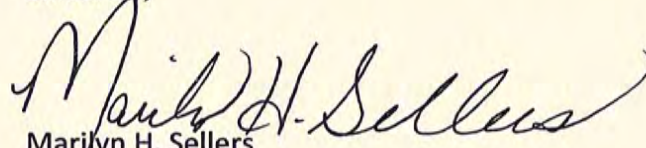
Dear Mr. Taylor,

Please accept this letter in support of the grant application submitted by the City of Shelby for the relocation of their 9-11 center.

The City of Kings Mountain and the City of Shelby currently have a great partnership in the mandated PSAP Back-Up plan. Our plan was submitted and approved in April 2015. I understand you were involved in meeting with these agencies to assist them in formulating a template to make the Back-Up Plan a reality and I am sure you witnessed the working relationship between Kings Mountain and Shelby. They have worked together on several occasions in the past when significant issues have interrupted the ability of the 9-11 centers to function properly.

The new 9-11 center that Shelby is proposing through the grant application will host Kings Mountain should the need arise for the PSAP Back-Up plan to be activated. This state of the art center will benefit all PSAP's in Cleveland County and provide a much needed service for all citizens. Please do not hesitate to contact me if I can be of further assistance at 704-734-0333.

Sincerely,

  
Marilyn H. Sellers  
City Manager





# CLEVELAND COUNTY

*Offices of the  
BOARD OF COMMISSIONERS  
COUNTY MANAGER  
COUNTY ATTORNEY  
COUNTY CLERK*



Richard Taylor, ENP  
Executive Director  
Office of Information Technology Services  
NC 911 Board  
PO Box 17209  
Raleigh, NC 27619-7209

Dear Mr. Taylor,

Please accept this letter in support of the grant application submitted by the City of Shelby for the relocation of their existing 911 center.

The County works very closely with Shelby's 911 Center to accommodate the needs of our citizens. The County is in discussion with Shelby to expand our partnership in this area. With the new laws requiring backup plans for all primary PSAP's, we have requested the City's proposed 911 center to be our backup location. This new facility will provide more than enough space to accommodate our needs. The City and County are currently on the same platform system; therefore, the transition should go very well if the need arises.

The new center will not only benefit the citizens of Shelby, but will also benefit all of Cleveland County by providing backup service to our call center. If I can answer any questions, please feel free to contact me at 704-484-4800.

Sincerely,

A handwritten signature in black ink, appearing to read "Jeff Richardson".  
Jeff Richardson  
Cleveland County Manager

# North Carolina 911 Board Grant Application

## General Information

**Project Title**

Washington County Backup 911 Center

**Grant Fiscal Year - 2017**

**Project Director**

Jay Jewell

**Project Contact**

Jay Jewell

**Project Contact Title**

Grant Manager

**Address**

120 Adams st

Plymouth NC 27962

**Phone**

252-796-2022

**Email**

117washco@gmail.com

*Three types of grants are available, as described below. In the box following these descriptions, please select the Grant Type which most appropriately fits your request.*

- **Consolidation** - A consolidation project involves combining one or more PSAPs with a primary PSAP with an integrated management structure that serves the same populations and jurisdictions previously served by offering grant funding for both PSAP costs authorized under G.S. 143B-1406(e) and costs not authorized under G.S. 143B-1406(e) to include construction costs.
- **Individual PSAP Enhancement/Replacement** - the relocation costs of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.
- **Regional Initiative Enhancement/Replacement** - Regional initiatives are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such initiatives comprise projects involving two or more primary PSAPs or a primary PSAP with approved secondary PSAPs. Costs of relocation of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.

**Grant Type**   *Individual PSAP Enhancement/Replacement*

**PSAP Name**   *Washington County Communication Center*

- 1.   *Has the Revenue/Expenditure Report for FY15 been completed and approved by the NC 911 Board Fiscal staff for the applicant PSAP?***

YES

- 2.   *Has the applicant PSAP submitted a plan and secured the means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP (backup plan)?***

YES

- 3.   *If the answer to #2 above is yes, does the PSAP have the means to implement the plan before 7/1/16?***

NO

- 4.   *If plan implementation will not occur before July 1, 2016, has an extension been requested?***

YES

---

# Project Description

***Required for all grant types, this should be a thorough, concise, and complete description of the proposed project.***

## **5. Please outline project goals and objectives.**

The Washington County Emergency Backup Center (WCEBC); the major goal of the WCEBC is to provide uninterrupted emergency services during catastrophic, manmade or natural disasters to the citizens and visitors of Washington County.

Washington County is pursuing the options of overcoming technological and training hurdles for our new backup PSAPs. This project would enhance backup operations throughout Washington County.

The current 911 center occupies about 577 square foot of space (this includes square footing for the dispatchers and the server room), the Washington County 911 center is presently located on the second floor of the county courthouse which was built in 1918. There is no space for service expansion, installation of new technology or equipment, expansion of additional telecommunications staff, no space to support staff during a natural disaster, and no on-site space for staff training, development or additional service operations. Our current facility does not house a separate training area and all training that has to be done in the current 911 center which is not conducive to the learning environment as well as the daily operations of the 911 center.

The goal of Washington County is to use the current 911 center as their main 911 center. The backup 911 center will provide additional space which will be needed and required in the event of a manmade or natural disaster. The new backup center will be 3936 square feet and will have adequate space for installation of new technology and equipment. It will also have space to support staff training and development, or additional service operations. Washington County has signed a long term lease with the town of Roper for a building to be used for our backup facility. The lease agreement and county commissioners resolution is attached.

**Goal 1:** The backup center will meet existing North Carolina 911 Board Operating Standards as issued on 04/14/2011 and meet Apco P25 Standards and any other state and federal standards, including OSHA 1903. These standards include emergency power generators, multiple independent power lines, incursion of security and fire protection standards, improved caller privacy and security.

**Objective 1:** The current planning process provides that we use the most up-to-date and secure process for ensuring that we have minimal risk of loss of power and communications.

**Objective 2:** The backup 911 center will use current North Carolina Sheriff's Education and Training (NCCJETS), National Emergency Number Association (NENA) standards, International Organization for Standardization (ISO) standards, National Fire Protection Association (NFPA) 1720 & 1221 standards, Apco P25 standards, OSHA 1903, and will meet all state and federal standards.

**Goal 2:** The backup center will enable us to have adequate space to support staff during natural and manmade disasters, and will be able to support new technology and future increases in telecommunication and supervisory staff.

**Objective 1:** Provide our telecommunicators with enhanced room to educate and support them.

**Objective 2:** Upgrade, enhance or replace 911 infrastructure to meet or exceed current standards due to building infrastructure, building age (built in 1918), constraints and current lack of expansion space due to the small square footage (577 square feet) of existing 911 communications center

**Goal 3:** The third goal is to utilize properly trained, certified telecommunicators who will use standardized call processing and dispatch techniques. This will meet the operational goals and standards established by the NC 911 Board and applicable/adopted standards from the International Organization for Standardization (ISO), National Emergency Number Association (NENA), The Association of Public-Safety Communications Officials-International (APCO), The International Academies of Emergency Dispatch (IAED), and National Fire Protection Association (NFPA) and all state and federal standards.

**Objective 1:** Provide the public and field responder agencies with trained, certified/credentialed 9-1-1 telecommunications professionals.

**Objective 2:** Apply standardized call processing by employing nationally recognized protocols.

**Objective 3:** Apply a quality assurance (QA) program in concurrence with the protocols to ensure all callers and responders receive the standard set of care, and to align with best practices.

**Goal 4:** The fourth goal is to implement, plan and prepare for using information in an NG9-1-1 environment.

**Objective 1:** Adopt Internet Protocol (IP)-based nationally recognized NENA and APCO P25 standards for updating hardware and software that would utilize the NG9-1-1 system.

**Objective 2:** Meet the changing communications and information requirements of all law enforcement, fire and rescue/EMS services by creating a communications system that is expandable to meet the changing needs of first responders.

**Objective 3:** Install an IP NG9-1-1 telephony network for delivery of voice and data.

**Goal 5:** The backup facility will have adequate room for training operations increasing the capabilities of supervisory staff to provide effective meaningful educational opportunities that will benefit the residents of Washington County.

**Objective 1:** Having our 911 operations up-to-date to current standards to better serve the citizens of Washington County.

**Goal 6:** Our 911 backup center will allow for the communication and cohesiveness with other emergency service agencies, local, state and federal in the case of a natural or manmade disaster.

**Objective 1:** Improve 911 data sharing and inter agency communications.

In keeping with state mandate for a backup 911 center. We are seeking funding to equip our backup center and perform a console refresh of our main 911 center that will be compliant with the new equipment in the backup center. Seeing that our current 911 center's equipment is at the end of service. This funding will accommodate the need of emergency dispatch and call processing in the event that our main 911 center goes offline due to a manmade or natural disaster. Washington County Emergency Backup Center (WCEBC) has been chosen as our project title for this grant application.

### **6. Please provide an implementation strategy and work plan, including a timeline.**

Washington County will provide a building which would located in the central part of our county this would be designated as the backup 911 center and our current 911 center will stay our main communications center. This backup center will provide emergency communications in the county in the case of a catastrophic failure of Washington county's primary 911 communication centers. Most of the existing infrastructure is at the end-of-life and/or is also at the end-of-service and will need to be replaced so existing operations can continue with little or no disruption of services.

The project will be comprised of three Phases, (Phase 1) Grant Application.

(Phase 2) upon award of Grant. Demo and interior construction will begin. This will be constructing interior which will consist of raising flooring for technology lines, constructing interior walls for staff space and offices,

(Phase 3) Testing of protocol and transiting of call taking from main to backup center.

We will begin purchasing and installing: software & hardware, phone lines, restoring old consoles in main 911 center, new consoles, backup generator, and quarters for staff during an emergency.

- Construct and retrofit backup 9-1-1 center
- Install microwave at backup center
- Equip and furnish backup 9-1-1 center
- Technology systems procurement, installation, testing, and training.
- Restore console in current 9-1-1- center
- Create protocol for transition call taking from main center to backup.
- Project Close Out

This project proposes to equip and install software/hardware, equipment, office furniture, create staff quarters for backup 911 center which is on a long term lease from the Town of Roper. The backup facility will be equipped with five new 9-1-1 answering/dispatch positions; all with new 9-1-1 customer premise equipment (CPE), new workstation furniture, new CAD and mapping systems (monitors and servers), as well as new radio console equipment, server(s), and microwave. Equipment and technology will be procured and installed in backup center and the console in the

current facility will be restored.

We anticipate processes that Phase 2 will require 10 - 12 months to complete from the Phase 2 Kick Off date and a month for Phase 3 to be completed.

**7. Please identify the interface or compatibility between existing equipment and/or software and that which you intend to purchase.**

Our backup PSAP will utilize the Voice Interoperability Plan for Emergency Responders (VIPER) as a statewide radio system and will help ensure a smooth transition should Washington County main 911 center fail.

We are currently training to be EMD (Emergency Medical Dispatcher) certified; this will include training of our dispatchers and installing necessary software. This will greatly enhance the safety of the visitors and citizens of Washington County by having our dispatchers to provide and assist the caller with pre-arrival instructions using standardized protocols.

We will use microwave technology by installing the Voice Interoperability Plan for Emergency Responders (VIPER), which is used exclusively for hurricane/disaster and mutual aid is used in day-to-day operations for the main center and for WCEBC. Next Gen software, computer aided dispatch (CAD), and other dispatch and call processing hardware will be replaced since current 911 equipment is at the end of service.



# Statement of Need

***Required for all grant types, this statement should reference the relationship of the grant project to NCGS §143b-1407(b) and the current funding priorities established by the Grant Policy and Procedures and include evidence of any financial need.***

## **8. Please indicate how your PSAP or group of PSAPs meets the statutory criterion of serving a rural or high cost area.**

Washington County is a rural county as defined by North Carolina statutes, G.S 53A-37(5) defines rural area as any county in North Carolina which does not include within its boundaries a city, as defined by G.S 160A-1(2), with a population greater than one percent (1%) of the population of North Carolina. The United States Census estimated in 2013 the population of North Carolina to be 9,752,073 of which one percent (1%) would be 97,521.

Tier rankings take into account four factors

- Median household income for the most recent twelve months for which data are available (2013)
- Adjusted property tax base per capita for the most recent taxable year (2015-2016)
- Average unemployment rate for the most recent twelve month for which data are available (September 2013 - August 2014)
- Percentage growth in population for the most recent month for which data are available (July 2012 - July 2013)

NOTE: The years in parentheses for each variable indicate the years that are used to rank counties for 2015 tier designations. Each county is ranked 1 to 100 on each variable with (1) being the most distressed and (100) the least.

Tier 1 "Automatic Qualifiers" are:

- Tier 1 for at least two consecutive years
- Be a county with less than 12,000 or
- Be a county with a population between 12,000 and 49,999

Washington county, a Tier 1 county (rank 5/100 counties), with a poverty rate at 26.5 percent and unemployment rate of 9.6 percent (rank 15/100 counties). Washington County is 424 square miles, has a population of 12,816. This comes to about 33 persons per square miles.

Over the last several years Washington County has seen over 5 major employers closed or downsized. The decrease in taxable income is related to the loss of over 1800 jobs in just a few years. This loss of taxable income has hurt the economy of Washington County severely.

In the 90's Washington County had 3 major employers. Plymouth Garment Company had over 300 employees, Georgia Pacific had over 150 employees, and Weyerhaeuser had over 1500 employees.

In 2000, the United States signed the NAFTA agreement and the owners of Plymouth Garment Company moved most of its operation to Mexico; keeping the plant in Plymouth open for shipping. Employment of the Garment Company went from over 350 employees in the 80's, to 150 employees in the 90's and down to 10 employees after the signing of NAFTA in 2000. Georgia Pacific had over 150 employees in the early 80's when it burned down. The owners decided not to rebuild.

Weyerhaeuser was once this county's largest employer with over 1600 employees working for them in the 70's; just over 1300 employees in the 80's and just over 1000 employees in the 90's. The workforce in 2005 was just over 750 employees when they had a massive layoff of over 200 employees, Weyerhaeuser was sold to Domtar in 2007. In 2009, Domtar reduced its workforce by 40% by laying off over 185 employees. This had Washington County losing over 385 well paying jobs in just over 4 years. Domtar is located in Martin County and Washington County doesn't benefit from any property taxes from it.

Washington County saw its population decrease by 8% between 1980 and 2000. There was a 7% decrease in the population between 2000 and 2012 with the decrease in population the per capita income decreased too.

Unemployment has increased from a low of 4.2% in the 90's to a high of 13.1% in 2011. The unemployment rate for the United States was just over 8.1% in 2013 and Washington County was over 12.2% at that time. From 1976 to 2013 employment shrank from 6182 jobs to 4307 jobs, that is a decrease of 12%.

With the increase of unemployment in recent years the jobs lost have hurt Washington County's economy by substantial amounts. The county's economy earnings have shrank in recent years from \$119 million to just over \$86 million, that is a decrease in taxable earnings of 26%. Loss of taxable income in recent years went from \$30 million to over \$48 million, that is an increase of over 40%. All due to the lost of employment in Washington County. This loss of income has hurt the county in it's taxable revenue which equates to the loss of obtaining funding for E911 services.

**9. Please identify funding priorities, their impact on operational services, and consequences of not receiving funding.**

Washington County has been designated Tier 1 for over the last 15 years by the North Carolina Department of Commerce, indicating it is one of the 40 most distressed counties in the state. Without funding Washington County would not be able to have an up-to-date main and backup 911 center which is required by federal and state mandates of which NC Senate Bill 797 (states that all PSAP must have a backup by July 1, 2016) signed by Governor Mc Cory in July of 2014. Failure to obtain funding would make it economically impossible for this county to finance a backup 911 center which will be required by law to have in 2016. The loss of taxable income has made it impossible for available budgeted funding to be received to update the current 911 center and have a backup PSAP. Without funding any catastrophic event would cripple this county in providing 911 emergency services to the citizens and visitors in Washington County.

The first priority for a backup center is to provide telecommunicators that are trained and certified to use standardized call processing and dispatch techniques, while meeting operational goals and standards established by the NC 911 Board and applicable/adopted nationally recognized industry standards. To meet this priority, telecommunicators are trained and certified/credentialed as 9-1-1 telecommunications professionals. Call processing would be standardized by utilizing nationally recognized protocols. This would assure that all callers and responders receive the set standard of care.

The second priority of the backup center is to plan, implement and prepare for using information in an NG9 1-1 environment. To accomplish this requires implementation of IP-based nationally recognized NENA and APCO standards for updating hardware and software that could be utilized for an NG9-1-1 system. In the event that the main 911 center went offline the backup center would allow telecommunicators to send the closest unit to an emergency for rapid response to citizens of Washington County. An additional way to improve information sharing would be implementation of the NC Aware application. This "app" would be deployed to supervisors, chiefs and directors of public safety agencies and would provide important situational awareness of individual agencies at any given time. This goal would meet the changing communications and information needs of all law enforcement, fire and rescue/EMS services by creating a communications system that is expandable to meet the changing needs of first responders.

Facilitating Backup 911 Communications will be a grave economical hardship without the awarding of this grant. The consequences of not receiving this funding will delay the County's ability to provide a back-up PSAP for an unforeseen amount of time due to limited tax dollars available through traditional funding means. The lack of other Grant programs that address this unique function within Public Safety further complicate the possibility. The Grant program provided through the State 911 Board is unique and not replicated by other potential sources. The consequences of not receiving funding can be summarized in one concise reflection: Without an award from this Grant Program, Washington County 911 Communications will continue to serve visitors and citizens in a limited fashion and operate a Communications Center on limited funding, and operate without a backup 911 center for the near future.

**10. Please provide a copy of your PSAP's long-term or strategic technology plan and identify how the project fits within it.**

This project addresses many of the short and long term insufficiencies identified in our IT plan. For example our major E911 infrastructure is at the end of life and due to have the software/hardware replaced between 2016-2017. The WCEBC project addresses the needs of Washington County Backup 911 center being up-to-date on E911 technology and the capabilities to provide backup E911 services. A strategic technology plan has been attached.

**11. Please identify the likelihood of completing the project utilizing your 911 fund balance and the percentage of grant funding being requested in relation to total project costs.**

Due to the decline of the economy of Washington County completing this project will be grave hardship on this county without grant funding. There are no other funds or sources of finance available to subsidize this project. Our current 911 budget is 511,466. Our current fund balance is extremely low compared to other PSAP within the state. There are no private grants or local government funding available to support this project without an E911 grant funding. We are requesting funding for building renovation, equipment upgrades, software/hardware, technology, current 911 console refresh and backup 911 furniture.

# ***Regional Initiative Enhancement/Replacement Project***

***Required for all Regional Initiative Enhancement/Replacement project types.***

***Regional initiative enhancement/replacement projects are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such projects may involve two or more primary PSAPs.***

## **12. What is the relationship of participating PSAPs to the initiative? Provide MOUs between PSAPs identifying each participant PSAP's responsibilities to the project.**

There will be no relationships with other PSAPs and no MOUs will be needed since we are applying for an Individual PSAP Enhancement/Replacement grant

## **13. Identify intended collaborative efforts between participating PSAPs.**

Collaborative efforts that identify resource sharing will not be needed since we are applying for Individual PSAP Enhancement/Replacement grant. Also no operational or strategic plans with other agencies will be needed

## **14. Identify how resource sharing will take place.**

We will not be needing to share any resources since we are applying for Individual PSAP Enhancement/Replacement grant.

## **15. Indicate how the initiative impacts the operational or strategic plans of the participating agencies.**

There will be no impact on the operational or strategic plans for our agencies since we are applying for Individual PSAP Enhancement/Replacement grant.

***NOTE: The following section on “Consolidation Project Plan” is ONLY required if your type of grant is a “Consolidation”. If your project IS NOT a Consolidation, proceed to question # 23 to complete the grant application.***

**16. Indicate how a consolidation would take place and improve service**

Click or tap here to enter text.

**17. Indicate how the consolidated PSAP should be organized and staffed**

Click or tap here to enter text.

**18. Indicate what services the consolidated PSAP should perform**

Click or tap here to enter text.

**19. Indicate how consolidated PSAP policies should be made and changed**

Click or tap here to enter text.

**20. Indicate how the consolidated PSAP should be funded exclusive of grant funding**

Click or tap here to enter text.

**21. Indicate what changes or improvements should be made to inter-communications among the local governments participating in the consolidation in order to better support operations.**

Click or tap here to enter text.

**22. Discuss sustainability of the consolidation project during the proposed term of the project, and for the foreseeable future.**

Click or tap here to enter text.

## FINANCIAL DATA

### **23. Current 911 Fund Balance**

Current 911 Balance      \$ 511,466

### **24. Amount Requested**

Amount Requested      \$1,378,097

### **25. Total Project Cost**

Total Project Cost      \$ 866,631

# Budget and Budget Narrative

***A budget and budget narrative must be supplied for all types of projects, as well as a copy of the applicant agency's approved FY 2016 PSAP budget.***

## **26. List planned expenditures**

Total Project Costs: \$1,378,097.

(\$360,000.00 for construction, \$1,018,097 ( for building and technology)

A detailed budget, floor plan and quotes have been attached.

## **27. Provide a budget narrative that briefly explains the reason for each requested budget item.**

### **Permit Fees:**

Washington County building permits fees for 911 Center will be \$10,000 which will be incurred by the county.

### **Generator:**

A facility generator with fuel supply and transfer switch gear to integrate with both the UPS and support critical 911 systems will be installed. The cost of the generator with installation is \$38,500.

### **Radio Console System/Netclock:**

Cost of four positions of Motorola MCC5500 digital consoles to interface with the P25 trunked radio system and operational with the VIPER system. Estimated cost is \$219,296.

### **CAD System:**

The new building will include four CAD system positions estimated at \$105,598

### **Telephone System 911/Administration:**

The cost to provide E-911 CPE telephone system, including four dispatch positions which would include all hardware and software. The cost for the next generation equipment is estimated at \$193,880.

### **Server/Recorder:**

The cost of new redundant E-911 and radio logging recorder system with P25 trunked radio logic software. are based on a quote from Edge One Solutions. The hardware and network costs from this quote total is \$27,248.

### **911 Console Furniture:**

The cost for four console workstations including 24/7 workstation chairs to provide four E-911, radio dispatch, and training positions for a total estimate of \$89,892,

### **Long Haul Microwave Links:**

This equipment will allow for the transmission of data from one network into another. This will provide radio/paging coverage for both the VIPER network and fire service dispatching should our primary 911 center fail.

This project calls for installation of two microwave antenna between primary and backup 911 centers.

### **UPS:**

UPS to support facility and 911 systems will be installed with technology equipment. The cost of the facility UPS (installation is included in this estimate) is estimated at \$25,000.

### **Structured Cabling:**

Structured cabling to support facility and critical 911 systems will be installed with technology equipment and is estimated to cost \$80,000.00.

### **Interior Grounding:**

Grounding will be installed with interior technology and is estimated to be \$1,281.

**Audio/Visual (A/V) equipment:**

The A/V equipment will include 911 center operations floor, the 911 Director's office and the 911 conference room. The cost of the equipment is estimated to be \$12,000.

**Closed Circuit TV (Interior and exterior security):**

The backup building will need keyless entry keypad locks and CCTV surveillance cameras for monitoring entrances and secured areas. The estimated equipment cost is \$20,555.

**IP Networking (software/interface/workstations)**

Networking gear will be needed to facilitate communications on the 911 networks and administrative networks. This gear will include routers and Ethernet switches, specified and procured to industry standards. All requiring licensing fees are included. Equipment, software and systems redundant connectivity and infrastructure to support facility and critical 911 systems will be installed with technology equipment. The estimated cost is \$54,736

**EMD Software with Licensing Renewal Service and Support:**

The EMD software will give our staff the knowledge and expertise to handle any call for help with the most state of the art call taking software on the market with scientifically backed scripted protocol. The cost will be \$9,545.

**Furniture:**

Furniture for individual training rooms and offices. The cost will be \$89,892.

**Southern Software:**

Current CAD software. The cost will be \$55,679.

**Refresh Consoles:**

This will bring the old consoles up-to-date with new software and hardware. The cost will be \$38,311.

**Construction Cost:**

The installation of HVAC, data and technology lines, electrical lines, plumbing, construction of interior walls, flooring, painting. The cost will be \$360,000.

**28. State how you will follow applicable procurement law, rules, and policies.**

Washington County Finance Director will act as the fiduciary agent for this project which will be outlined and reviewed by the County Manager and Commissioners. Washington County Finance Director will have the responsibility of ensuring all applicable procurement laws, rules, and policies are followed. This will be accomplished by following existing county procurement policies which are in accordance with Article 8 of the North Carolina General Statutes, specifically G.S. 143-129, which establishes the procedures for formal bidding and G.S. 143-131, which establishes the procedures for the informal bid process. All the documents of all project expenses, payments, etc. will be in accordance with Generally Accepted Accounting Principles, as set forth by the Financial Accounting Standards Board. This project will also comply with any additional requirements that may be set forth in a project contract.

**29. If the project will have ongoing expenses, such as monthly recurring charges, describe plans and specific sources for future/long-term funding and demonstrate how the project will be sustained in the future without additional 911 Grant Program funding.**



The project will have ongoing expenses which will be the same as is experienced now and will be paid with NC Board 911 funds and the 911 county budgeted funds. This will include repair and maintenance of equipment, repair and maintenance of software, program supplies and lease.

# Evaluation

***All applications must include evaluation information. The final report shall include an evaluation demonstrating that the equipment or services funded by the grant have been purchased, installed/implemented, and are performing as expected.***

**30. Explain how your evaluation will measure the achievement of the goals and objectives identified in the Project Description with a timeline for meeting short, intermediate, and long term goals.**

Upon grant approval we will start construction, purchasing and installing of equipment at the backup center and begin console restore at the main 911 center.

Although the timeline milestones cannot be submitted at this time the scheduled details after the grant is awarded are the responsibility of Washington Communications Director. At this time a detailed timeline cannot be submitted. Listed below is a tentative timeline. The month the grant is received is month zero.

## Timeline

- ❖ Month 1 - Demo interior of building
- ❖ Month 2 - 4 Installation of HVAC, electrical, technology wiring and interior floor and wall construction
- ❖ Month 3 - 6 Procure and install technology systems
- ❖ Month 5 - Finish interior work (i.e. painting and installing flooring)
- ❖ Month 7 - Integrate technology
- ❖ Month 8 - Test/accept systems
- ❖ Month 9 - Implement backup protocol testing

**31. Describe how evaluations will be conducted, including performance parameters which must be met in order to meet acceptance criteria.**

The Washington County 911 Communications Director/Project Manager will be responsible for conducting and writing evaluations. Other phases within construction will be evaluated through industry standards for 911, construction, and/or technology. Washington County 911 Communications and IT Director will conduct evaluations during the system, start-up testing phases and once the project is fully functional to see that it meets or exceeds industry benchmarks. Whenever grant funds are involved, the Washington County Finance Director will support this reporting effort.

The Emergency Services Director, with the support of the committee, will be responsible for reporting to the NC 911 Board. Updated status reports of funded activities as well as documentation of completed milestones, project timeline changes and expenses will be reported to the NC 911 Board on a monthly basis. All reporting will meet requirements set forth by the NC 911 Board. Interim reports will be produced as requested or if a risk is identified that will impact the scope, schedule or budget of the project

**32. Identify how data will be collected and presented**

The Washington County 911 Communications Director will be responsible for collecting data during all phases of which the county financial director will be copied on. It is anticipated that the data will be collected on the project using an evaluation form.

The exact data to be collected will be determined the 911 Communications Director and the grant manager and will

include the following:

- Schedule
- Comprehensiveness of project
- Construction Issues
- Inexorableness of Cost Construction
- Safety

The data will be collected both electronically and manually, including but not limited to project schedules, CAD or CPE software, logger information, master schedules, schematic designs and all executed documents such as vendor and services contracts, all identified deliverables, evacuation documentation and any change orders. This data will be collected electronically using CAD or CPE software and logger information, and will be used to ensure goals, objectives, and industry benchmarks are being met or exceeded. This data will be used to complete any required grant reports after construction. In addition, this data will be used in part to show the accomplishment of the various points needed for acquiescence with NC Sheriff's Education Training and Standards.

The project manager will be responsible for maintaining all documentation in a central project file that is organized by components of the overall project, arranged by individual tasks, milestones and evaluation documentation. A review of the project contents will be conducted by the assigned project manager every 60 days during the project. At the end of the project, the project file will be reviewed to ensure completeness and given to Washington County upon closeout.



COMMERCIAL LEASE AGREEMENT  
(Single Tenant Facility)  
911 BACKUP PSAP

(Note: This form is not intended to be used as a Sublease and SHOULD NOT be used in Sublease circumstances)

THIS COMMERCIAL LEASE AGREEMENT, including any and all addenda attached hereto ("Lease"), is by and between  
THE TOWN OF ROPER

a(n) MUNICIPAL CORPORATION OF NC ("Landlord"),  
(individual or State of formation and type of entity)

whose address is \_\_\_\_\_, and  
THE COUNTY OF WASHINGTON, a(n)  
BODY POLITIC AND CORPORATE OF THE STATE OF NORTH CAROLINA ("Tenant").  
(individual or State of formation and type of entity)

whose address is 116 ADAMS STREET, PLYMOUTH NC 27962

☐ If this box is checked, the obligations of Tenant under this Lease are secured by the guaranty of  
N/A (name(s) of guarantor(s)) attached hereto and  
incorporated herein by reference. (Note: Any guaranty should be prepared by an attorney at law.)

For and in consideration of the mutual promises set forth herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

**PREMISES**

1. Landlord leases unto Tenant, and Tenant hereby leases and takes upon the terms and conditions which hereinafter appear, the following described property, including any improvements located thereon (hereinafter called the "Premises"), to wit:

(Address): 403 NC HWY 32, ROPER, NC 27970

☒ All ☐ A portion of the property in Deed Reference: Book 473, Page No. 560, WASHINGTON County; consisting of approximately \_\_\_\_\_ acres.

Plat Reference: Lot(s) TRACT 1, Block or Section \_\_\_\_\_, as shown on Plat Book or Slide  
PLAT CABINET 3 at Page(s) SLIDE 36D, WASHINGTON County, consisting of \_\_\_\_\_ acres.

☒ If this box is checked, Premises shall mean that property described on **Exhibit A** attached hereto and incorporated herewith by reference.

(For information purposes only, the tax parcel number of the Premises is: 7708.18-41-9952)

**TERM**

2. The term of this Lease shall commence on JULY 1st, 20 17 ("Lease Commencement Date"), and shall end at 11:59 p.m. (based upon the time at the locale of the Premises) on JUNE 30th, 20 32, unless sooner terminated as herein provided. The first Lease Year Anniversary shall be the date twelve (12) calendar months after the first day of the first full month immediately following the Lease Commencement Date and successive Lease Year Anniversaries shall be the date twelve (12) calendar months from the previous Lease Year Anniversary.

☐ If this box is checked, Tenant shall have the option of renewing this Lease, upon written notice given to Landlord at least \_\_\_\_\_ days prior to the end of the then expiring term of this Lease, for \_\_\_\_\_ additional term(s) of \_\_\_\_\_ years each.





☒ **Option to Lease-** If this box is checked, Tenant, upon the payment of the sum of \$ 10.00 (which sum is not rental or security deposit hereunder, but is consideration for this Option to Lease and is non-refundable under any circumstances) shall have a period of 365 days prior to the Lease Commencement Date ("Option Period") in which to inspect the Premises and make inquiry regarding such sign regulations, zoning regulations, utility availability, private restrictions or permits or other regulatory requirements as Tenant may deem appropriate to satisfy itself as to the use of the Premises for Tenant's intended purposes. Tenant shall conduct all such on-site inspections, examinations, inquiries and other review of the Premises in a good and workmanlike manner, shall repair any damage to the Premises caused by Tenant's entry and on-site inspections and shall conduct same in a manner that does not unreasonably interfere with Landlord's or any tenant's use and enjoyment of the Premises. In that respect, Tenant shall make reasonable efforts to undertake on-site inspections outside of the hours any tenant's business is open to the public and shall give prior notice to any tenants of any entry onto any tenant's portion of the Premises for the purpose of conducting inspections. Upon Landlord's request, Tenant shall provide to Landlord evidence of general liability insurance. Tenant shall also have a right to review and inspect all contracts or other agreements affecting or related directly to the Premises and shall be entitled to review such books and records of Landlord that relate directly to the operation and maintenance of the Premises, provided, however, that Tenant shall not disclose any information regarding the Premises (or any tenant therein) unless required by law and the same shall be regarded as confidential, to any person, except to its attorneys, accountants, lenders and other professional advisors, in which case Tenant shall obtain their agreement to maintain such confidentiality. Tenant assumes all responsibility for the acts of itself, its agents or representatives in exercising its rights under this Option to Lease and agrees to indemnify and hold Seller harmless from any damages resulting therefrom. This indemnification obligation of Tenant shall survive the termination of this Option to Lease or this Lease. Tenant shall, at Tenant's expense, promptly repair any damage to the Premises caused by Tenant's entry and on-site inspections. **IF TENANT CHOOSES NOT TO LEASE THE PREMISES, FOR ANY REASON OR NO REASON, AND PROVIDES WRITTEN NOTICE TO LANDLORD THEREOF PRIOR TO THE EXPIRATION OF THE OPTION PERIOD, THEN THIS LEASE SHALL TERMINATE AND NEITHER PARTY SHALL HAVE ANY FURTHER OBLIGATIONS HEREUNDER AND LANDLORD SHALL RETURN TO TENANT ANY RENTAL OR SECURITY DEPOSIT PAID TO LANDLORD HEREUNDER.** Tenant shall be deemed to have exercised its Option to Lease and to be bound under the terms of this Lease if (i) Tenant shall occupy the Premises prior to the expiration of the Option Period, whereupon the date of occupancy shall be deemed the Lease Commencement Date, or (ii) Tenant shall not provide written notice to Landlord of its termination of this Lease prior to the expiration of the Option Period.

#### RENTAL

3. Beginning on July 1st, 2017 ("Rent Commencement Date"), Tenant agrees to pay Landlord (or its Agent as directed by Landlord), without notice, demand, deduction or set off, an annual rental of \$ 18,000.00\* (See Exh "B"), payable in equal monthly installments of \$ 1,500.00\* (See Exh "B"), in advance on the first day of each calendar month during the term hereof. Upon execution of this Lease, Tenant shall pay to Landlord the first monthly installment of rent due hereunder. Rental for any period during the term hereof which is less than one month shall be the pro-rated portion of the monthly installment of rental due, based upon a 30 day month.

☐ If this box is checked, the annual rental payable hereunder (and accordingly the monthly installments) shall be adjusted every        Lease Year Anniversary by       % over the amount then payable hereunder. In the event renewal of this Lease is provided for in paragraph 2 hereof and effectively exercised by Tenant, the rental adjustments provided herein shall apply to the term of the Lease so renewed, or

☐ If this box is checked, the annual rental payable hereunder (and accordingly the monthly installments) shall be adjusted every        Lease Year Anniversary by the greater of: (i)        percent (      %) over the amount then payable hereunder, or, (ii) the percentage increase (but not any decrease) in the numerical index of the "Consumer Price Index for All Urban Consumers" (1982-84 = 100) published by the Bureau of Labor Statistics of the United States Department of Labor ("CPI") for the immediately preceding twelve (12) month period over the amount then payable hereunder.

☐ If this box is checked, the annual rental payable hereunder (and accordingly the monthly installments) shall be adjusted every        Lease Year Anniversary by \$        over the amount then payable hereunder. In the event renewal of this Lease is provided for in paragraph 2 hereof and effectively exercised by Tenant, the rental adjustments provided herein shall apply to the term of the Lease so renewed,

☐ If this box is checked, Tenant shall pay all rental to Landlord's Agent at the following address:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



## LATE CHARGES

4. If Landlord fails to receive full rental payment within fifteen (15) days after it becomes due, Tenant shall pay Landlord, as additional rental, a late charge equal to five percent 5 (%) of the overdue amount or \$ 100.00 whichever is greater, plus any actual bank fees incurred for dishonored payments. The parties agree that such a late charge represents a fair and reasonable estimate of the cost Landlord will incur by reason of such late payment.

## SECURITY DEPOSIT

5. Upon the execution of this Lease, Tenant shall deposit with Landlord the sum of \$ 1500.00 as a security deposit which shall be held by Landlord as security for the full and faithful performance by Tenant of each and every term, covenant and condition of this Lease. The security deposit does not represent payment of and Tenant shall not presume application of same as payment of the last monthly installment of rental due under this Lease. Landlord shall have no obligation to segregate or otherwise account for the security deposit except as provided in this paragraph 5. If any of the rental or other charges or sums payable by Tenant shall be over-due and unpaid or should payments be made by Landlord on behalf of Tenant, or should Tenant fail to perform any of the terms of this Lease, then Landlord may, at its option, appropriate and apply the security deposit, or so much thereof as may be necessary, to compensate toward the payment of the rents, charges or other sums due from Tenant, or towards any loss, damage or expense sustained by Landlord resulting from such default on the part of the Tenant; and in such event Tenant upon demand shall restore the security deposit to the amount set forth above in this paragraph 5. In the event Tenant furnishes Landlord with proof that all utility bills and other bills of Tenant related to the Premises have been paid through the date of Lease termination, and performs all of Tenant's other obligations under this Lease, the security deposit shall be returned to Tenant within sixty (60) days after the date of the expiration or sooner termination of the term of this Lease and the surrender of the Premises by Tenant in compliance with the provisions of this Lease.

☐ ~~If this box is checked, Agent shall hold the security deposit in trust and shall be entitled to the interest, if any, thereon.~~

## UTILITY BILLS/SERVICE CONTRACTS

6. Landlord and Tenant agree that utility bills and service contracts ("Service Obligations") for the Premises shall be paid by the party indicated below as to each Service Obligation. In each instance, the party undertaking responsibility for payment of a Service Obligation covenants that they will pay the applicable Service Obligations prior to delinquency. The responsibility to pay for a Service Obligation shall include all metering, hook-up fees or other miscellaneous charges associated with establishing, installing and maintaining such utility or contract in said party's name. Within thirty (30) days of the Lease Commencement Date, Tenant shall provide Landlord with a copy of any requested Tenant Service Obligation information.

<u>Service Obligation</u>	<u>Landlord</u>	<u>Tenant</u>	<u>Not Applicable</u>
Sewer/Septic	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Water	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Electric	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Gas	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Telephone	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
HVAC (maintenance/service contract)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Elevator (including phone line)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Security System	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fiber Optic	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Janitor/Cleaning	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Trash/Dumpster	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Landscaping/Maintenance	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sprinkler System (including phone line)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pest Control	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Landlord shall not be liable for injury to Tenant's business or loss of income therefrom or for damage that may be sustained by the person, merchandise or personal property of Tenant, its employees, agents, invitees or contractors or any other person in or about the Premises, caused by or resulting from fire, steam, electricity, gas, water or rain, which may leak or flow from or into any part of the Premises, or from the breakage, leakage, obstruction or other defects of any utility installations, air conditioning system or other components of the Premises, except to the extent that such damage or loss is caused by Landlord's gross negligence or willful misconduct. Landlord makes no representations or warranties with respect to the heating, ventilation and air conditioning system(s) or utility installations existing as of the date hereof or in the future. Subject to the provisions of this paragraph 6, Landlord shall not be liable in damages or otherwise for any discontinuance, failure or interruption of service to the Premises of utilities or the heating, ventilation and air conditioning system(s) and Tenant shall have no right to terminate this Lease or withhold rental because of the same.

#### RULES AND REGULATIONS

7. The rules and regulations, if any, attached hereto ("Rules and Regulations") are made a part of this Lease. Tenant agrees to comply with any Rules and Regulations of Landlord in connection with the Premises which are in effect at the time of the execution of the Lease or which may be from time to time promulgated by Landlord in its reasonable discretion, provided such Rules and Regulations are in writing and are not in conflict with the terms and conditions of the Lease.

#### PERMITTED USES

8. The permitted use of the Premises shall be: Backup 911 PSAP/Sheriff/Emer Mgmt/EMS/MISC COUNTY SERVICES ("Permitted Use"). The Premises shall be used and wholly occupied by Tenant solely for the purposes of conducting the Permitted Use, and the Premises shall not be used for any other purposes unless Tenant obtains Landlord's prior written approval of any change in use. Landlord makes no representation or warranty regarding the suitability of the Premises for or the legality (under zoning or other applicable ordinances) of the Permitted Use for the Premises, provided however, that Landlord does represent that it has no contractual obligations with other parties which will materially interfere with or prohibit the Permitted Use of Tenant at the Premises. At Tenant's sole expense, Tenant shall procure, maintain and make available for Landlord's inspection from time to time any governmental license(s) or permit(s) required for the proper and lawful conduct of Tenant's business in the Premises. Tenant shall not cause or permit any waste to occur in the Premises and shall not overload the floor, or any mechanical, electrical, plumbing or utility systems serving the Premises. Tenant shall keep the Premises, and every part thereof, in a clean and wholesome condition, free from any objectionable noises, loud music, objectionable odors or nuisances.

#### TAXES AND INSURANCE

9. Landlord shall pay all taxes (including but not limited to, ad valorem taxes, special assessments and any other governmental charges) on the Premises and shall procure and pay for such commercial general liability, broad form fire and extended and special perils insurance with respect to the Premises as Landlord in its reasonable discretion may deem appropriate. ~~Tenant shall reimburse Landlord for all taxes and insurance as provided herein within fifteen (15) days after receipt of notice from Landlord as to the amount due. Tenant shall be solely responsible for insuring Tenant's personal and business property and for paying any taxes or governmental assessments levied thereon. Tenant shall reimburse Landlord for taxes and insurance during the term of this Lease, and any extension or renewal thereof. If boxes are checked below, the manner of reimbursement shall be as indicated:~~ N/A

##### Taxes

☒ The amount by which all taxes (including but not limited to, ad valorem taxes, special assessments and any other governmental charges) on the Premises for each tax year exceed all taxes on the Premises for the tax year \_\_\_\_\_; or

☒ All taxes (including but not limited to, ad valorem taxes, special assessments and any other governmental charges) on the Premises for each tax year.

If the final Lease Year of the term fails to coincide with the tax year, then any excess for the tax year during which the term ends shall be reduced by the pro rata part of such tax year beyond the Lease term. If such taxes for the year in which the Lease terminates are not ascertainable before payment of the last month's rental, then the amount of such taxes assessed against the Premises for the previous tax year shall be used as a basis for determining the pro rata share, if any, to be paid by Tenant for that portion of the last Lease Year.

☒ If this box is checked, Tenant shall reimburse Landlord for taxes by paying to Landlord, beginning on the Rent Commencement Date and on the first day of each calendar month during the term hereof, an amount equal to one-twelfth (1/12) of the then current tax payments for the Premises. Upon receipt of bills, statements or other evidence of taxes due, Landlord shall pay or cause to be paid the taxes. If at any time the reimbursement payments by Tenant hereunder do not equal the amount of taxes paid by Landlord, Tenant shall upon demand pay to Landlord an amount equal to the deficiency or Landlord shall refund to Tenant any overpayment (as applicable) as documented by



Landlord. Landlord shall have no obligation to segregate or otherwise account for the tax reimbursements paid hereunder except as provided in this paragraph 9.

#### Insurance

- ☐ the excess cost of commercial general liability, broad form fire and extended and special perils insurance with respect to the Premises over the cost of the first year of the Lease term for each subsequent year during the term of this Lease; or
- ☐ the cost of all commercial general liability, broad form fire and extended and special perils insurance with respect to the Premises.
- ☐ If this box is checked, Tenant shall reimburse Landlord for insurance by paying to Landlord, beginning on the Rent Commencement Date and on the first day of each calendar month during the term hereof, an amount equal to one-twelfth (1/12) of the then current insurance premiums for the Premises. Upon receipt of bills, statements or other evidence of insurance premiums due, Landlord shall pay or cause to be paid the insurance premiums. If at any time the reimbursement payments by Tenant hereunder do not equal the amount of insurance premiums paid by Landlord, Tenant shall upon demand pay to Landlord an amount equal to the deficiency or Landlord shall refund to Tenant any overpayment (as applicable) as documented by Landlord. Landlord shall have no obligation to segregate or otherwise account for the insurance premium reimbursements paid hereunder except as provided in this paragraph 9.

(Note: The following box should only be checked if there are no boxes checked above in this paragraph 9.)

- ☒ If this box is checked, Tenant shall have no responsibility to reimburse Landlord for taxes or insurance.

Provided however, notwithstanding any provision of the foregoing, that in the event Tenant's use of the Premises results in an increase in the rate of insurance on the Premises, Tenant shall pay to Landlord, upon demand and as additional rental, the amount of any such increase.

#### INSURANCE; WAIVER; INDEMNITY

10. (a) During the term of this Lease, Tenant shall maintain commercial general liability insurance coverage (occurrence coverage) with broad form contractual liability coverage and with coverage limits of not less than ONE MILLION DOLLARS (\$1,000,000.00) combined single limit, per occurrence, specifically including liquor liability insurance covering consumption of alcoholic beverages by customers of Tenant should Tenant choose to sell alcoholic beverages. Such policy shall insure Tenant's performance of the indemnity provisions of this Lease, but the amount of such insurance shall not limit Tenant's liability nor relieve Tenant of any obligation hereunder. All policies of insurance provided for herein shall name as "additional insureds" Landlord, Landlord's Agent, all mortgagees of Landlord and such other individuals or entities as Landlord may from time to time designate upon written notice to Tenant. Tenant shall provide to Landlord, at least thirty (30) days prior to expiration, certificates of insurance to evidence any renewal or additional insurance procured by Tenant. Tenant shall provide evidence of all insurance required under this Lease to Landlord prior to the Lease Commencement Date.

(b) Landlord (for itself and its insurer) waives any rights, including rights of subrogation, and Tenant (for itself and its insurer) waives any rights, including rights of subrogation, each may have against the other for compensation of any loss or damage occasioned to Landlord or Tenant arising from any risk generally covered by the "all risks" insurance required to be carried by Landlord and Tenant. The foregoing waivers of subrogation shall be operative only so long as available in the State of North Carolina. The foregoing waivers shall be effective whether or not the parties maintain the insurance required to be carried pursuant to this Lease.

(c) Except as otherwise provided in paragraph 10(b), Tenant indemnifies Landlord for damages proximately caused by the negligence or wrongful conduct of Tenant and Tenant's employees, agents, invitees or contractors. Except as otherwise provided in paragraph 10(b), Landlord indemnifies Tenant for damages proximately caused by the negligence or wrongful conduct of Landlord and Landlord's employees, agents, invitees or contractors. The indemnity provisions in this paragraph 10 cover personal injury and property damage and shall bind the employees, agents, invitees or contractors of Landlord and Tenant (as the case may be). The indemnity obligations in this paragraph 10 shall survive the expiration or earlier termination of this Lease.



## REPAIRS BY LANDLORD

11. Landlord agrees to keep in good repair the roof, foundation, structural supports and exterior walls of the buildings located on the Premises (exclusive of all glass and exclusive of all exterior doors) and, except as may be specifically allocated to Tenant in paragraph 12 herein, Landlord agrees to be responsible for capital repairs and replacements on the Premises; provided that Landlord shall not be responsible for repairs or capital repairs or replacements rendered necessary by the negligence or intentional wrongful acts of Tenant, its employees, agents, invitees or contractors. Tenant shall promptly report in writing to Landlord any defective condition known to it which Landlord is required to repair or replace and failure to report such conditions shall make Tenant responsible to Landlord for any liability incurred by Landlord by reason of such conditions.

(Note: Should Landlord and Tenant need to further detail the allocation of responsibility hereunder, the Special Stipulations box at the end of the Lease should be checked and such allocation should be specified on an Exhibit B.)

## REPAIRS BY TENANT

12. (a) Tenant accepts the Premises in their present condition and as suited for the Permitted Use and Tenant's intended purposes. Tenant, throughout the initial term of this Lease, and any extension or renewal thereof, at its expense, shall maintain in good order and repair the Premises, (except those repairs expressly required to be made by Landlord hereunder), specifically including but not limited to any building and other improvements located thereon, all light bulb and ballast replacements, plumbing fixtures and systems repairs within the Premises and water heater repairs. ~~Tenant further agrees to care for the grounds around the building, including the mowing of grass, care of shrubs and general landscaping.~~ Tenant shall use only licensed contractors for repairs where such license is required. Landlord shall have the right to approve the contractor as to any repairs in excess of \$ 30,000.00

☒ If this box is checked, Tenant, at its expense, shall maintain the heating, ventilation and air conditioning system(s) in good order and repair, including but not limited to replacement of parts, compressors, air handling units and heating units. ~~Provided that Tenant shall have obtained Landlord's prior written approval of the contractor and the repair or replacement expenses for heating, ventilation and air conditioning equipment, Tenant shall not be liable for more than \$ \_\_\_\_\_ (per occurrence) or \$ \_\_\_\_\_ (annually), and Landlord shall reimburse Tenant for the amount in excess of the stated amount upon the written request of Tenant.~~

☐ If this box is checked, Landlord, at its expense, shall maintain the heating, ventilation and air conditioning system(s) in good order and repair, including but not limited to replacement of parts, compressors, air handling units and heating units. Provided that, Tenant shall reimburse Landlord an amount up to \$ N/A (per occurrence) or \$ \_\_\_\_\_ (annually), and Landlord be responsible for the amount in excess of the stated amount. Tenant shall reimburse Landlord for the amount in excess of the stated amount upon the written request of Landlord.

(b) Tenant agrees to return the Premises to Landlord at the expiration or prior termination of this Lease, in as good condition and repair as on the Lease Commencement Date, natural wear and tear, damage by storm, fire, lightning, earthquake or other casualty alone excepted. Tenant, Tenant's employees, agents, invitees or contractors shall take no action which may void any manufacturers or installers warranty with relation to the Premises. Tenant shall indemnify and hold Landlord harmless from any liability, claim, demand or cause of action arising on account of Tenant's breach of the provisions of this paragraph 12.

## ALTERATIONS

13. Tenant shall not make any alterations, additions, or improvements to the Premises without Landlord's prior written consent, which consent shall not be unreasonably withheld, conditioned or delayed. Tenant shall promptly remove any alterations, additions, or improvements constructed in violation of this paragraph 13 upon Landlord's written request. All approved alterations, additions, and improvements will be accomplished in a good and workmanlike manner, in conformity with all applicable laws and regulations, ~~and by a contractor approved by Landlord,~~ free of any liens or encumbrances. Landlord may require Tenant to remove any alterations, additions or improvements (whether or not made with Landlord's consent) at the termination of the Lease and to restore the Premises to its prior condition, all at Tenant's expense. All alterations, additions and improvements which Landlord has not required Tenant to remove shall become Landlord's property and shall be surrendered to Landlord upon the termination of this Lease, except that Tenant may remove any of Tenant's machinery, equipment or trade fixtures which can be removed without material damage to the Premises. Tenant shall repair, at Tenant's expense, any damage to the Premises caused by the removal of any such machinery, equipment or trade fixtures. See Exhibit "A" for additional terms and conditions related to substantial renovations the parties intend for the Tenant to make to the premises prior to occupancy.

## DESTRUCTION OF OR DAMAGE TO PREMISES

14. (a) If the Premises are totally destroyed by storm, fire, lightning, earthquake or other casualty, Landlord shall have the right to terminate this Lease on written notice to Tenant within thirty (30) days after such destruction and this Lease shall terminate as of the date of such destruction and rental shall be accounted for as between Landlord and Tenant as of that date.



(b) If the Premises are damaged but not wholly destroyed by any such casualties or if the Landlord does not elect to terminate the Lease under paragraph 14(a) above, Landlord shall commence (or shall cause to be commenced) reconstruction of the Premises within one hundred twenty (120) days after such occurrence and prosecute the same diligently to completion, not to exceed two hundred seventy (270) days from the date upon which Landlord receives applicable permits and insurance proceeds. In the event Landlord shall fail to substantially complete reconstruction of the Premises within said two hundred seventy (270) day period, Tenant's sole remedy shall be to terminate this Lease.

(c) In the event of any casualty at the Premises during the last one (1) year of the Lease Term, Landlord and Tenant each shall have the option to terminate this Lease on written notice to the other of exercise thereof within sixty (60) days after such occurrence.

(d) In the event of reconstruction of the Premises, Tenant shall continue the operation of its business in the Premises during any such period to the extent reasonably practicable from the standpoint of prudent business management, and the obligation of Tenant to pay annual rental and any other sums due under this Lease shall remain in full force and effect during the period of reconstruction. The annual rental and other sums due under this Lease shall be abated proportionately with the degree to which Tenant's use of the Premises is impaired, commencing from the date of destruction and continuing during the period of such reconstruction. Tenant shall not be entitled to any compensation or damages from Landlord for loss of use of the whole or any part of the Premises, Tenant's personal property, or any inconvenience or annoyance occasioned by such damage, reconstruction or replacement.

(e) In the event of the termination of this Lease under any of the provisions of this paragraph 14, both Landlord and Tenant shall be released from any liability or obligation under this Lease arising after the date of termination, except as otherwise provided for in this Lease. [See Exhibit "B" for additional terms and conditions regarding Tenant's recoupment of renovation expenses in the event of early termination.](#)

#### GOVERNMENTAL ORDERS

15. Tenant, at its own expense, agrees to comply with: (a) any law, statute, ordinance, regulation, rule, requirement, order, court decision or procedural requirement of any governmental or quasi-governmental authority having jurisdiction over the Premises, (b) the rules and regulations of any applicable governmental insurance authority or any similar body, relative to the Premises and Tenant's activities therein; (c) provisions of or rules enacted pursuant to any private use restrictions, as the same may be amended from time to time and (d) the Americans with Disabilities Act (42 U.S.C.S. §12101, et seq.) and the regulations and accessibility guidelines enacted pursuant thereto, as the same may be amended from time to time. Landlord and Tenant agree, however, that if in order to comply with such requirements the cost to Tenant shall exceed a sum equal to one (1) year's rent, then Tenant may terminate this Lease by giving written notice of termination to Landlord in accordance with the terms of this Lease, which termination shall become effective sixty (60) days after receipt of such notice and which notice shall eliminate the necessity of compliance with such requirements, unless, within thirty (30) days of receiving such notice, Landlord agrees in writing to be responsible for such compliance, at its own expense, and commences compliance activity, in which case Tenant's notice given hereunder shall not terminate this Lease.

#### CONDEMNATION

16. (a) If the entire Premises shall be appropriated or taken under the power of eminent domain by any governmental or quasi-governmental authority or under threat of and in lieu of condemnation (hereinafter, "taken" or "taking"), this Lease shall terminate as of the date of such taking, and Landlord and Tenant shall have no further liability or obligation arising under this Lease after such date, except as otherwise provided for in this Lease. [See Exhibit "B" for additional terms and conditions regarding Tenant's recoupment of renovation expenses in the event of early termination.](#)

(b) If more than twenty-five percent (25%) of the floor area of any building of the Premises is taken, or if by reason of any taking, regardless of the amount so taken, the remainder of the Premises is not one undivided space or is rendered unusable for the Permitted Use, either Landlord or Tenant shall have the right to terminate this Lease as of the date Tenant is required to vacate the portion of the Premises taken, upon giving notice of such election within thirty (30) days after receipt by Tenant from Landlord of written notice that said Premises have been or will be so taken. In the event of such termination, both Landlord and Tenant shall be released from any liability or obligation under this Lease arising after the date of termination, except as otherwise provided for in this Lease. [See Exhibit "B" for additional terms and conditions regarding Tenant's recoupment of renovation expenses in the event of early termination.](#)

(c) Landlord and Tenant, immediately after learning of any taking, shall give notice thereof to each other.

(d) If this Lease is not terminated on account of a taking as provided herein above, then Tenant shall continue to occupy that portion of the Premises not taken and the parties shall proceed as follows: (i) at Landlord's cost and expense and as soon as reasonably possible, Landlord shall restore (or shall cause to be restored) the Premises remaining to a complete unit of like quality and character as existed prior to such appropriation or taking, and (ii) the annual rent provided for in paragraph 3 and other sums due under the Lease shall be reduced on an equitable basis, taking into account the relative values of the portion taken as compared to the portion remaining. Tenant waives any statutory rights of termination that may arise because of any partial taking of the Premises.



~~(e) Landlord shall be entitled to the entire condemnation award for any taking of the Premises or any part thereof. Tenant's right to receive any amounts separately awarded to Tenant directly from the condemning authority for the taking of its merchandise, personal property, relocation expenses and/or interests in other than the real property taken shall not be affected in any manner by the provisions of this paragraph 16, provided Tenant's award does not reduce or affect Landlord's award and provided further, Tenant shall have no claim for the loss of its leasehold estate. The parties shall equitably divide any condemnation award, and Tenant shall be entitled to receive compensation for its loss of its leasehold estate.~~

#### ASSIGNMENT AND SUBLETTING

17. Tenant shall not assign this Lease or any interest hereunder or sublet the Premises or any part thereof, or permit the use of the Premises by any party other than the Tenant, without Landlord's prior written consent, which consent shall not be unreasonably withheld, conditioned or delayed. Consent to any assignment or sublease shall not impair this provision and all later assignments or subleases shall be made likewise only on the prior written consent of Landlord. No sublease or assignment by Tenant shall relieve Tenant of any liability hereunder.

#### EVENTS OF DEFAULT

18. The happening of any one or more of the following events (hereinafter any one of which may be referred to as an "Event of Default") during the term of this Lease, or any renewal or extension thereof, shall constitute a breach of this Lease on the part of the Tenant: (a) Tenant fails to pay when due the rental or any other monetary obligation as provided for herein; (b) ~~Tenant abandons or vacates the Premises;~~ (c) Tenant fails to comply with or abide by and perform any non-monetary obligation imposed upon Tenant under this Lease within thirty (30) days after written notice of such breach; (d) Tenant is adjudicated bankrupt; (e) A permanent receiver is appointed for Tenant's property and such receiver is not removed within sixty (60) days after written notice from Landlord to Tenant to obtain such removal; (f) Tenant, either voluntarily or involuntarily, takes advantage of any debt or relief proceedings under any present or future law, whereby the rent or any part thereof is, or is proposed to be, reduced or payment thereof deferred and such proceeding is not dismissed within sixty (60) days of the filing thereof; (g) Tenant makes an assignment for benefit of creditors; or (h) Tenant's effects are levied upon or attached under process against Tenant, which is not satisfied or dissolved within ~~thirty (30)~~ 120 days after written notice from Landlord to Tenant to obtain satisfaction thereof.

#### REMEDIES UPON DEFAULT

19. Upon the occurrence of Event of Default, Landlord may pursue any one or more of the following remedies separately or concurrently, without prejudice to any other remedy herein provided or provided by law: (a) Landlord may terminate this Lease by giving written notice to Tenant and upon such termination shall be entitled to recover from Tenant damages as may be permitted under applicable law; or (b) Landlord may terminate this Lease by giving written notice to Tenant and, upon such termination, shall be entitled to recover from the Tenant damages in an amount equal to all rental which is due ~~and all rental which would otherwise have become due throughout the remaining term of this Lease, or any renewal or extension thereof (as if this Lease had not been terminated);~~ or (c) Landlord, as Tenant's agent, without terminating this Lease, may enter upon and rent the Premises, in whole or in part, at the best price obtainable by reasonable effort, without advertisement and by private negotiations and for any term Landlord deems proper, with Tenant being liable to Landlord for the deficiency, if any, between Tenant's rent hereunder and the price obtained by Landlord on reletting, provided however, that Landlord shall not be considered to be under any duty by reason of this provision to take any action to mitigate damages by reason of Tenant's default and expressly shall have no duty to mitigate Tenant's damages. No termination of this Lease prior to the normal ending thereof, by lapse of time or otherwise, shall affect Landlord's right to collect rent for the period prior to termination thereof.

#### EXTERIOR SIGNS

20. Tenant shall place no signs upon the outside walls, doors or roof of the Premises, except with the express written consent of the Landlord in Landlord's sole discretion. Any consent given by Landlord shall expressly not be a representation of or warranty of any legal entitlement to signage at the Premises. Any and all signs placed on the Premises by Tenant shall be maintained in compliance with governmental rules and regulations governing such signs and Tenant shall be responsible to Landlord for any damage caused by installation, use or maintenance of said signs, and all damage incident to removal thereof.

#### LANDLORD'S ENTRY OF PREMISES

21. Landlord may advertise the Premises "For Rent" or "For Sale" 180 days before the termination of this Lease. Landlord may enter the Premises upon prior notice at reasonable hours to exhibit same to prospective purchasers or tenants, to make repairs required of Landlord under the terms hereof, for reasonable business purposes and otherwise as may be agreed by Landlord and Tenant. Landlord may enter the Premises at any time without prior notice, in the event of an emergency or to make emergency

repairs to the Premises. Upon request of Landlord, Tenant shall provide Landlord with a functioning key to the Premises and shall replace such key if the locks to the Premises are changed.

#### **QUIET ENJOYMENT**

22. So long as Tenant observes and performs the covenants and agreements contained herein, it shall at all times during the Lease term peacefully and quietly have and enjoy possession of the Premises, subject to the terms hereof.

#### **HOLDING OVER**

23. If Tenant remains in possession of the Premises after expiration of the term hereof, Tenant shall be a tenant at sufferance and there shall be no renewal of this Lease by operation of law. In such event, commencing on the date following the date of expiration of the term, the monthly rental payable under Paragraph 3 above shall for each month, or fraction thereof during which Tenant so remains in possession of the Premises, be ~~none~~ the monthly rental otherwise payable under Paragraph 3 above.

#### **ENVIRONMENTAL LAWS**

24. (a) Tenant covenants that with respect to any Hazardous Materials (as defined below) it will comply with any and all federal, state or local laws, ordinances, rules, decrees, orders, regulations or court decisions relating to hazardous substances, hazardous materials, hazardous waste, toxic substances, environmental conditions on, under or about the Premises or soil and ground water conditions, including, but not limited to, the Comprehensive Environmental Response, Compensation and Liability Act of 1980, the Resource Conservation and Recovery Act, the Hazardous Materials Transportation Act, any other legal requirement concerning hazardous or toxic substances, and any amendments to the foregoing (collectively, all such matters being "Hazardous Materials Requirements"). Tenant shall remove all Hazardous Materials from the Premises, either after their use by Tenant or upon the expiration or earlier termination of this Lease, in compliance with all Hazardous Materials Requirements.

(b) Tenant shall be responsible for obtaining all necessary permits in connection with its use, storage and disposal of Hazardous Materials, and shall develop and maintain, and where necessary file with the appropriate authorities, all reports, receipts, manifest, filings, lists and invoices covering those Hazardous Materials and Tenant shall provide Landlord with copies of all such items upon request. Tenant shall provide within five (5) days after receipt thereof, copies of all notices, orders, claims or other correspondence from any federal, state or local government or agency alleging any violation of any Hazardous Materials Requirements by Tenant, or related in any manner to Hazardous Materials. In addition, Tenant shall provide Landlord with copies of all responses to such correspondence at the time of the response.

(c) Tenant hereby indemnifies and holds harmless Landlord, its successors and assigns from and against any and all losses, liabilities, damages, injuries, penalties, fines, costs, expenses and claims of any and every kind whatsoever (including attorney's fees and costs) paid, incurred or suffered by, or asserted against Landlord as a result of any claim, demand or judicial or administrative action by any person or entity (including governmental or private entities) for, with respect to, or as a direct or indirect result of, the presence on or under or the escape, seepage, leakage, spillage, discharge, emission or release from the Premises of any Hazardous Materials caused by Tenant or Tenant's employees, agents, invitees or contractors. This indemnity shall also apply to any release of Hazardous Materials caused by a fire or other casualty to the premises if such Hazardous Materials were stored on the Premises by Tenant, its agents, employees, invitees or successors in interest.

(d) For purposes of this Lease, "Hazardous Materials" means any chemical, compound, material, substance or other matter that: (i) is defined as a hazardous substance, hazardous material or waste, or toxic substance pursuant to any Hazardous Materials Requirements, (ii) is regulated, controlled or governed by any Hazardous Materials Requirements, (iii) is petroleum or a petroleum product, or (iv) is asbestos, formaldehyde, a radioactive material, drug, bacteria, virus, or other injurious or potentially injurious material (by itself or in combination with other materials).

(e) The warranties and indemnities contained in this paragraph 24 shall survive the termination of this Lease.

#### **SUBORDINATION; ATTORNMEN; ESTOPPEL**

25. (a) This Lease and all of Tenant's rights hereunder are and shall be subject and subordinate to all currently existing and future mortgages affecting the Premises. Within ten (10) days after the receipt of a written request from Landlord or any Landlord mortgagee, Tenant shall confirm such subordination by executing and delivering Landlord and Landlord's mortgagee a recordable subordination agreement and such other documents as may be reasonably requested, in form and content satisfactory to Landlord and Landlord's mortgagee. Provided, however, as a condition to Tenant's obligation to execute and deliver any such subordination agreement, the applicable mortgagee must agree that mortgagee shall not unilaterally, materially alter this Lease and this Lease shall



not be divested by foreclosure or other default proceedings thereunder so long as Tenant shall not be in default under the terms of this Lease beyond any applicable cure period set forth herein. Tenant acknowledges that any Landlord mortgagee has the right to subordinate at any time its interest in this Lease and the leasehold estate to that of Tenant, without Tenant's consent.

(b) If Landlord sells, transfers, or conveys its interest in the Premises or this Lease, or if the same is foreclosed judicially or nonjudicially, or otherwise acquired, by a Landlord mortgagee, upon the request of Landlord or Landlord's successor, Tenant shall attorn to said successor, provided said successor accepts the Premises subject to this Lease. Tenant shall, upon the request of Landlord or Landlord's successor, execute an attornment agreement confirming the same, in form and substance acceptable to Landlord or Landlord's successor and Landlord shall thereupon be released and discharged from all its covenants and obligations under this Lease, except those obligations that have accrued prior to such sale, transfer or conveyance; and Tenant agrees to look solely to the successor in interest of Landlord for the performance of those covenants accruing after such sale, transfer or conveyance. Such agreement shall provide, among other things, that said successor shall not be bound by (a) any prepayment of more than one (1) month's rental (except the Security Deposit) or (b) any material amendment of this Lease made after the later of the Lease Commencement Date or the date that such successor's lien or interest first arose, unless said successor shall have consented to such amendment.

(c) Within ten (10) days after request from Landlord, Tenant shall execute and deliver to Landlord an estoppel certificate (to be prepared by Landlord and delivered to Tenant) with appropriate facts then in existence concerning the status of this Lease and Tenant's occupancy, and with any exceptions thereto noted in writing by Tenant. Tenant's failure to execute and deliver the Estoppel Certificate within said ten (10) day period shall be deemed to make conclusive and binding upon Tenant in favor of Landlord and any potential mortgagee or transferee the statements contained in such estoppel certificate without exception.

#### ABANDONMENT


26. Tenant shall not abandon the Premises at any time during the Lease term. ~~If Tenant shall abandon the Premises or be dispossessed by process of law, any personal property belonging to Tenant and left on the Premises, at the option of Landlord, shall be deemed abandoned, and available to Landlord to use or sell to offset any rent due or any expenses incurred by removing same and restoring the Premises.~~

#### NOTICES

27. All notices required or permitted under this Lease shall be in writing and shall be personally delivered or sent by U.S. certified mail, return receipt requested, postage prepaid. Notices to Tenant shall be delivered or sent to the address shown at the beginning of this Lease, except that upon Tenant taking possession of the Premises, then the Premises shall be Tenant's address for such purposes. Notices to Landlord shall be delivered or sent to the address shown at the beginning of this Lease and notices to Agent, if any, shall be delivered or sent to the address set forth in Paragraph 3 hereof. All notices shall be effective upon delivery. Any party may change its notice address upon written notice to the other parties, given as provided herein.

#### BROKERS

28. Except as expressly provided herein, Tenant and Landlord agree to indemnify and hold each other harmless from any and all claims of brokers, consultants or real estate agents by, through or under the indemnifying party for fees or commissions arising out of the lease of the Property to Tenant. Tenant and Landlord represent and warrant to each other that: (i) except as to the brokers designated below ("Brokers"), they have not employed nor engaged any brokers, consultants or real estate agents to be involved in this transaction and (ii) that the compensation of the Brokers is established by and shall be governed by separate agreements entered into as amongst the Brokers, the Tenant and/or the Landlord.

 \_\_\_\_\_ ("Listing Agency"),  
Acting as: ☐ Landlord's Agent; ☐ Dual Agent \_\_\_\_\_ ("Listing Agent" – License # \_\_\_\_\_)  
and \_\_\_\_\_ ("Leasing Agency"),  
Acting as: ☐ Tenant's Agent; ☐ Landlord's (Sub)Agent; ☐ Dual Agent \_\_\_\_\_ ("Leasing Agent" – License # \_\_\_\_\_)

#### GENERAL TERMS

29. (a) "Landlord" as used in this Lease shall include the undersigned, its heirs, representatives, assigns and successors in title to the Premises. "Agent" as used in this Lease shall mean the party designated as same in Paragraph 3, its heirs, representatives, assigns and successors. "Tenant" shall include the undersigned and its heirs, representatives, assigns and successors, and if this Lease shall be validly assigned or sublet, shall include also Tenant's assignees or sublessees as to the Premises covered by such assignment or sublease. "Landlord", "Tenant", and "Agent" include male and female, singular and plural, corporation, partnership or individual, as may fit the particular parties.

(b) No failure of Landlord to exercise any power given Landlord hereunder or to insist upon strict compliance by Tenant of its obligations hereunder and no custom or practice of the parties at variance with the terms hereof shall constitute a waiver of Landlord's right to demand exact compliance with the terms hereof. All rights, powers and privileges conferred hereunder upon parties hereto shall be cumulative and not restrictive of those given by law.

**(c) Time is of the essence in this Lease.**

(d) This Lease may be executed in one or more counterparts, which taken together, shall constitute one and the same original document. Copies of original signature pages of this Lease may be exchanged via facsimile or e-mail, and any such copies shall constitute originals. This Lease constitutes the sole and entire agreement among the parties hereto and no modification of this Lease shall be binding unless in writing and signed by all parties hereto. The invalidity of one or more provisions of this Lease shall not affect the validity of any other provisions hereof and this Lease shall be construed and enforced as if such invalid provisions were not included.

(e) Each signatory to this Lease represents and warrants that he or she has full authority to sign this Lease and such instruments as may be necessary to effectuate any transaction contemplated by this Lease on behalf of the party for whom he or she signs and that his or her signature binds such party. The parties acknowledge and agree that: (i) the initials lines at the bottom of each page of this Lease are merely evidence of their having reviewed the terms of each page, and (ii) the complete execution of such initials lines shall not be a condition of the effectiveness of this Lease.

(f) Upon request by either Landlord or Tenant, the parties hereto shall execute a short form lease (memorandum of lease) in recordable form, setting forth such provisions hereof (other than the amount of annual rental and other sums due) as either party may wish to incorporate. The cost of recording such memorandum of lease shall be borne by the party requesting execution of same.

(g) If legal proceedings are instituted to enforce any provision of this Lease, the prevailing party in the proceeding shall be entitled to recover from the non-prevailing party reasonable attorneys fees and court costs incurred in connection with the proceeding.

**SPECIAL STIPULATIONS**



If this box is checked, additional terms of this Lease are set forth on **Exhibit B** attached hereto and incorporated herein by reference. (Note: Under North Carolina law, real estate agents are not permitted to draft lease provisions.)

THIS DOCUMENT IS A LEGAL DOCUMENT. EXECUTION OF THIS DOCUMENT HAS LEGAL CONSEQUENCES THAT COULD BE ENFORCEABLE IN A COURT OF LAW. THE NORTH CAROLINA ASSOCIATION OF REALTORS® MAKES NO REPRESENTATIONS CONCERNING THE LEGAL SUFFICIENCY, LEGAL EFFECT OR TAX CONSEQUENCES OF THIS DOCUMENT OR THE TRANSACTION TO WHICH IT RELATES AND RECOMMENDS THAT YOU CONSULT YOUR ATTORNEY.

IN WITNESS WHEREOF, the parties hereto have hereunto caused this Lease to be duly executed.

**LANDLORD:**

**Individual**

\_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_

Date: \_\_\_\_\_

**TENANT:**

**Individual**

\_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_

Date: \_\_\_\_\_

**Business Entity**

TOWN OF ROPER

(Name of Firm)

By: DENISE BLOUNT

Title: MAYOR

Date: \_\_\_\_\_

**Business Entity**

COUNTY OF WASHINGTON

(Name of Firm)

By: D. COLE PHELPS

Title: CHAIRMAN, BOARD OF COUNTY COMMISSIONERS

Date: \_\_\_\_\_

**EXHIBIT "A"**  
to  
**COMMERCIAL LEASE AGREEMENT**  
**(Single Tenant Facility)**  
**911 BACKUP PSAP**

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The "Premises" leased pursuant to the Commercial Lease Agreement shall be comprised of, and shall be deemed to mean the following:

1. Being all of that space shown within a preliminary floor plan thereof attached to the Lease and incorporated therein by reference as Exhibit "D" consisting of approximately 3,950 square feet, and being located north west and immediately adjacent to that space currently leased by the Landlord to the United States Department of Agriculture – Farm Services Agency.
2. Only if the Tenant exercises its option to lease additional space as described within paragraph 6(a) of Exhibit "B" attached to the Lease and incorporated therein by reference, the premises shall also mean the following additional space:
  - i. Being all of the additional building space located to the northeast and northwest of the space described in paragraph 1 above and consisting of approximately \_\_\_\_\_ square feet, and being roughly depicted by the hand drawn yellow highlighted area shown within the survey dated March 23, 2013 by Randolph P. Nicholson, P.L.S. attached to the lease and incorporated therein by reference.



**EXHIBIT "B"**  
to  
**COMMERCIAL LEASE AGREEMENT**  
**(Single Tenant Facility)**  
**911 BACKUP PSAP**

This Exhibit "B" to a "Commercial Lease Agreement (Single-Tenant Facility) 911 BACKUP PSAP" (the "Lease") is hereby made and entered into concurrently therewith by the undersigned Landlord and Tenant thereof, for the purpose of creating the following additional terms and conditions as an integrated and inseparable part of said Lease:

**WHEREAS**, the terms and provisions of this Exhibit "B" and the Lease are intentionally incorporated into each other by reference to create a single legal instrument.

1. Documents: The following documents are incorporated into the Lease by reference and together comprise a single instrument:
  - a. Lease 12 Pages
  - b. Exhibit "A" Description of Premises
  - c. Exhibit "B" Additional Terms & Conditions (this instrument)
  - d. Exhibit "C" Law Enforcement Services
  - e. Exhibit "D" Preliminary Floor Plan Sketch
  - f. Deed Recorded in Book 473, Page 560 WCR
  - g. Survey Recorded in Plat Cabinet 3, Slide 36D (highlighted & marked)
2. Controlling Provisions: In the event of any conflict or ambiguity between the terms and conditions of the Lease and this Exhibit "B" the parties intend and agree that the terms and conditions of this Exhibit "B" shall be deemed to supersede, control, and prevail over any contrary or conflicting terms and conditions of the Lease.
3. Statement of General Intent: It is the intent of the parties to enter into the Lease in order to allow the Tenant to take early possession of the premises, and to permit the Tenant to make substantial renovations to the premises at its expense, in order to prepare the premises for the Tenant's use in providing backup PSAP and/or other public services therefrom. No rent shall be owed by the Tenant during the renovations period. After renovations are completed, the Tenant shall have the option of offering to provide the Landlord with law enforcement services in lieu of making monthly rental payments under the Lease. The Tenant shall have broad discretion and flexibility to renovate the premises as it deems necessary and appropriate and to cancel the Lease unilaterally before, during, or after such renovations, provided however the Tenant shall be reimbursed for the full value of its total investment made in the premises as a result of its renovations as more particularly described below. The Landlord shall receive the benefits of a substantially renovated building, of positive economic impact by Tenant's employees and patrons potentially frequenting the surrounding businesses in Landlord's jurisdiction, and of receiving a steady revenue stream in rental income, or law enforcement services in lieu thereof if Tenant opts to provide such services.
4. Rental:
  - a. FMV: The parties agree that after the premises are fully renovated, \$1,500 per month, or \$18,000 per year is a reasonable estimate of the fair market rental value thereof.

911 Backup PSAP Lease Exhibit "B"

Tenant Initials \_\_\_\_\_ Landlord Initials \_\_\_\_\_

- b. Abatement During Renovations: Until the premises are renovated enough to serve as an operable backup PSAP site in fully compliance with applicable rules and regulations, or until Tenant takes possession and begins offering PSAP or other public services from the premises, whichever occurs first, no rental payments shall be due or owing by Tenant under the Lease.
- c. Law Enforcement Services in Lieu of Rent: Notwithstanding anything within the Lease to the contrary, the Tenant in its sole discretion, shall be entitled to provide Landlord with certain law enforcement services as more particularly described within **Exhibit "C"** attached hereto and incorporated herein by reference on a monthly basis instead of making monthly monetary rental payments. In such event, said services shall constitute a complete and full accord and satisfaction of any and all monetary rental obligations otherwise described in the Lease for the same period of time during which such services are offered or actually provided, and regardless of whether or not the Town accepts or declines such services. The parties agree that such services may be offered intermittently throughout the term of the Lease. The value of such services to the Landlord is estimated to be a cost savings of approximately \$40,000 which would otherwise be incurred by Landlord to provide such services on its own accord.

5. Renovations & Improvements:

- a. Est. Renovations Value & Time Line: The Tenant anticipates but does not guarantee The that the total cost of all renovations, improvements, and upfitting of the premises (less all 911 equipment costs) will likely be approximately \$250,000 to \$350,000 upon completion which is estimated but not guaranteed to occur by July 1<sup>st</sup>, 2017 in order to comply with the current statutory requirement that a fully functional backup PSAP be operational by such date.
- b. Preliminary Floor Plan: A preliminary sketch of the intended, but not guaranteed final floor plan after renovations are complete is attached hereto and incorporated herein by reference as **Exhibit "D"**.
- c. Early Possession: The Tenant shall be entitled to early and exclusive possession of the premises throughout the Option to Lease period described in Paragraph 2 of the Lease (the "Option Period"). During the Option Period, the Tenant shall be entitled to begin making comprehensive renovations and improvements to the premises as provided for herein and in anticipation of occupying the premises under the Lease, provided however that such renovations and improvements shall not constitute occupancy of the premises until Tenant is able to occupy and use the premises to provide fully functioning backup PSAP services therefrom. During the Option Period, the parties shall be solely responsible for ensuring the full replacement value of their respective interests in the premises or in any property stored in or about the premises. Without limitation, for Tenant, such interest includes the full replacement value of any and all renovations and improvements made to the premises including the value of all construction materials and/or equipment utilized therein or stored thereat.
- d. Broad Tenant Renovation Discretion: The parties intend and agree that the Tenant will have to make substantial renovations and improvements to the premises in order to make the same habitable and useable for their intended purposes. To that end, the Tenant shall be entitled to make, and shall be solely responsible for the cost of making, any and all renovations, improvements, and upfitting of the premises as may be deemed necessary or reasonable within the Tenant's sole discretion, provided however that Tenant shall comply with any and all local, state, and/or federal ordinances, codes, laws, rules, or other regulations applicable thereto. In addition Tenant shall not unreasonably interfere with any other tenants use of the building adjacent to the premises.

- e. Landlord Cooperation: The Landlord agrees to use good faith and fair dealing in cooperating fully with Tenant during its investigations of the premises under its Option Period as described in the Lease, during any period or process of making renovations and improvements, and during the Lease term itself. Such cooperation may include without limitation aiding Tenant in its site investigations, making historical documents and information available for inspection, granting easements over, under, and through other portions of the building and/or property in connection with necessary renovations, and executing any additional instruments reasonably necessary for Tenant to fully undertake its premises site inspection and the overall renovations process.
6. Use of Premises/Option to Lease Additional Space: The parties intend and agree that Tenant may use the premises for a wide variety of governmental uses in its sole discretion including without limitation the uses specifically set stated in paragraph 8 of the Lease.
- a. Option to Lease Additional Space: The Tenant shall also have the option to lease all that additional building space consisting of approximately \_\_\_\_\_ square feet which is located beyond the northeast and northwest walls of the premises described in the Lease. The additional space is roughly depicted by the hand drawn yellow highlighted area shown within the survey dated March 23, 2013 by Randolph P. Nicholson, P.L.S. attached hereto and incorporated herein by reference. The Tenant intends to potentially utilize this space for EMS operations. To exercise this option, the Tenant must either notify Landlord in writing of its intent to do so before the Rent Commencement Date described in the Lease, or the option shall be deemed automatically exercised if Tenant undertakes any major renovations or improvements within the additional building space which is not otherwise a necessary improvement related solely to renovating the premises separately and apart from the additional building space. Upon Tenant's exercise of this option, the additional office space shall be added to and considered a part of the premises as otherwise described in the Lease, provided however that Tenant shall be required to pay Landlord an additional \$300 per month in actual monetary rental payments for the additional building space, which additional payment shall NOT be subject to offset by any provision of law enforcement services otherwise described in this Lease.
- b. Parking & Exterior/Landscaping Maintenance: The parties intend and agree that the Tenant shall share all available parking with the other tenants utilizing the building in which the premises are located. Tenant shall not be responsible for any shared maintenance costs of Landlord in connection with the building, parking lot, or landscaping unless otherwise stated herein. Landlord shall be solely responsible for maintaining any exterior building surfaces of premises unless renovated by Tenant prior to occupancy.
- c. Radio Equipment: During the Lease term, the Landlord agrees to provide Tenant with adequate space on its water tower(s) in order to attach radio/communication equipment necessary for operation of the backup PSAP in Roper at no additional cost to the Tenant.
7. Early Termination & Reimbursement for Renovations:
- a. Unilateral Early Termination by Tenant: In consideration of the substantial capital investment Tenant intends to make to the premises prior to occupying and using the same, the value of which Landlord will indirectly receive upon retaking possession of the premises after the expiration or early termination of the Lease, the parties intend and agree that Tenant shall retain a unilateral right to terminate the Lease early at

any time, and for any reason or no reason, by providing Landlord not less than sixty (60) days prior written notice thereof.

- b. Effect of Early Termination: In the event of any early termination of the Lease for any reason, Tenant shall not be responsible for the payment of any rent owed for the remaining canceled term thereof, and shall be entitled to retain possession of and remove any and all equipment, installed fixtures, and other easily removable improvements which can be removed without causing permanent damage to the premises. Such items including without limitation all 911 equipment, communications and IT equipment, security equipment; heating and air conditioning air handlers or machines/units if removable without permanent damage to the premises, but not including ductwork.
- c. Notice and Opportunity to Cure: The Tenant shall not be involuntarily divested of its leasehold interest in the premises during the Lease except in the event of its own failure to cure a material breach of the Lease after Landlord has provided not less than thirty (30) days written notice of such breach together with its stated intent to terminate the Lease as a result thereof if such breach is not cured within a reasonable time, provided Tenant shall be entitled to additional time to cure any breach which cannot reasonably be cured within the time provided. If Tenant promptly cures any such breach, the Lease shall be deemed to continue in good standing.
- d. Reimbursement for Renovations: Except in the event of a termination pursuant to the immediately preceding paragraph, in the event that the Tenant is involuntarily divested of its leasehold interest in the premises for any reason during the initial Lease term, the Tenant shall be entitled to compensation from the Landlord as reimbursement for its substantial capital investment made in renovating and improving the premises. Such compensation shall be determined by reducing the amount of the actual costs of making such renovations and improvements or \$300,000 (whichever is less) by the estimated fair market rental value described above for each year, or pro-rated portion thereof, which Tenant occupied the premises pursuant to the Lease.

8. Other Terms:

- a. Qualified Governmental Indemnification: Any and all agreements by any governmental entity as a party to the Lease to indemnify any other party thereto, shall be deemed given only to the fullest extent permitted by applicable law, and without waiving any applicable defense of sovereign immunity.
- b. Headings: The titles/captions/headings of any and all portions of the Lease provided therein are intended for reference purposes only, and shall not in any event be deemed to affect the meaning or interpretation of any portion(s) hereof. The term "Lease" shall encompass this Exhibit.
- c. Rules of Construction: Any rule of construction against the drafter of a legal instrument in a jurisdiction in which this Lease is interpreted or construed shall not be applied against either party, its terms being the final result of an arm's length negotiation between the parties.
- d. Governing Law: This Lease shall be governed by and construed and enforced in accordance with the laws of the State of North Carolina.
- e. Warranty of Marketable Title: The Landlord covenants with the Tenant, that Landlord is seized of the premises and underlying property in fee simple, has the right to convey the same in fee simple; that title is marketable and free and clear of all encumbrances; and that Landlord will warrant and defend the said title to the same against the lawful claims of all persons whomsoever.

**ONE SIGNATURE PAGE FOLLOWS**

911 Backup PSAP Lease Exhibit "B"

Tenant Initials \_\_\_\_\_ Landlord Initials \_\_\_\_\_

**IN WITNESS WHEREOF**, the parties have set their hands and SEALS intending to be bound by the additional terms and provisions set forth within this Exhibit to the Lease executed concurrently herewith.

**LANDLORD: TOWN OF ROPER**

\_\_\_\_\_ (SEAL)

BY: \_\_\_\_\_ (Print Name)

ITS: \_\_\_\_\_ (Print Title), its duly authorized agent.

DATE: \_\_\_\_\_

**TENANT: WASHINGTON COUNTY**

\_\_\_\_\_ (SEAL)

BY: \_\_\_\_\_ (Print Name)

ITS: \_\_\_\_\_ (Print Title), its duly authorized agent.

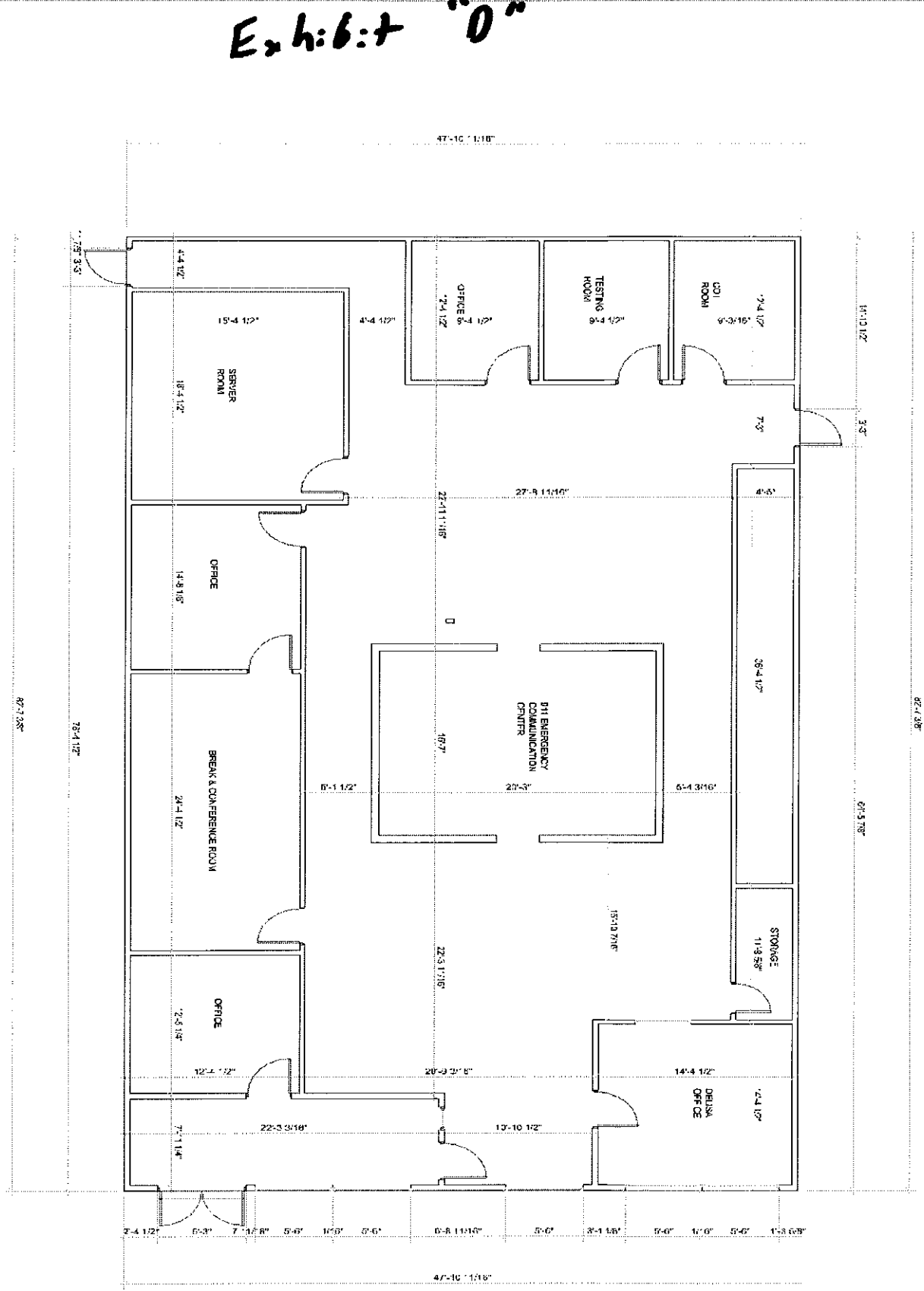
DATE: \_\_\_\_\_

**EXHIBIT "C"**  
to  
**COMMERCIAL LEASE AGREEMENT**  
**(Single Tenant Facility)**  
**911 BACKUP PSAP**

---

The "law enforcement services" referred to in paragraph 4(c) of Exhibit "B" to the Lease shall be as follows:

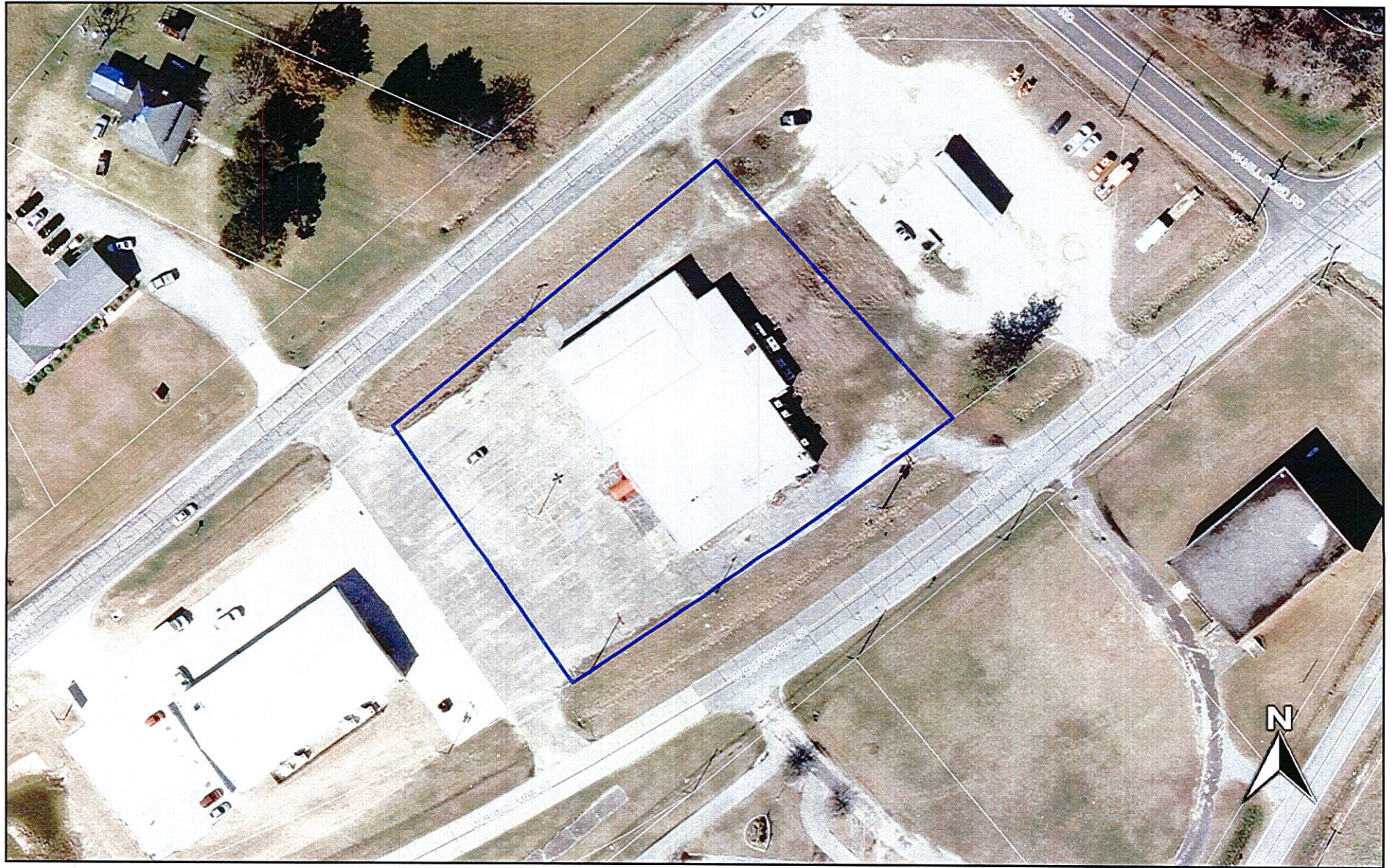
1. Providing on-site law basic law enforcement coverage in the jurisdiction of the Town of Roper at least forty (40) hours a week scheduled to target peak activity hours when law enforcement services are requested by citizens.
2. The provider shall make good faith efforts to regularly communicate with the Town of Roper regarding law enforcement services available to its citizens and regarding law enforcement activities and presence in its jurisdiction, and shall endeavor to maintain an office in the leased premises available for citizens to contact law enforcement personnel during posted office hours if feasible, or otherwise during hours personnel are available at such site.
3. The Town of Roper shall be entitled to provide input to the Sheriff's Office regarding law enforcement needs and strategy, but the Sheriff's Office shall have sole discretion in the exercise of its law enforcement duties and authority.





# Town of Roper Bldg

## County E911 Site



10 m  
40 ft

Apr/07/2016  
Scale 1:600

The materials available at this web site are for informational purposes only and do not constitute a legal document.



Attribute	Value
NCPIN	7708419952
TAX_PIN	7708.18-41-9952
FeatId	6414
OwnerAdd1	PO BOX 217
OwnerAdd2	
STATE	NC
CITY	PLYMOUTH
ZIP	27962
DB_PG	473/560
DeedDate	2012 FEB 15
ParcelNo	
OWNER_s	TOWN OF ROPER
AreaAC	1.404
PropLoc	403 NC HWY 32 N

302193



Filed: 02/20/2012 04:25:26 PM  
Elaine G. Vann, Register of Deeds  
Washington County, NC

*Linda C. Allgood*

Excise Tax: \$155.00

This certifies that there are no delinquent  
ad valorem, personal, taxes with the  
Washington County Tax Collector is charged  
with collecting that are a lien on:

7708.18-41-9952

Washington County Office of Land Records  
This is not a Certification that the Pin #  
matches the deed description.

*Phyllis S. Stone* 2-20-12  
Tax Collector Date

*Aut Tax Assessor*

REVENUE STAMPS \$ 155.00

PREPARED BY AND RETURN TO:  
ROBERT WENDEL HUTCHINS  
ATTORNEY AT LAW  
POST OFFICE DRAWER 1085  
PLYMOUTH, NC 27962

PIN 7708.18-41-9952

Verified 2-20-12

By P.S. ANGE

**NO TITLE SEARCH BY PREPARING ATTORNEY**

NORTH CAROLINA  
WASHINGTON COUNTY

**THIS DEED**, made this 15th day of February, 2012, by and between KME Development, LLC, an Alabama Limited Liability Company, **GRANTOR**, (Address: 2430 L&N Drive, Huntsville, Alabama 35801), to Town of Roper, a North Carolina municipal corporation, **GRANTEE**, (Address: P O Box 217, Roper, NC 27970):

**WITNESSETH:**

**THAT** the said Grantor, for One Dollar (\$1.00) and other valuable consideration to Grantor paid by the said Grantee, the receipt of which is hereby acknowledged, has bargained and sold, and by these presents does bargain, grant, sell and convey unto the said Grantee, its successors, heirs and assigns, in fee simple, a lot, tract or parcel of land in Roper Township, Washington County, North Carolina, and more accurately described as follows:

Being that certain tract or parcel of land being located in the Town of Roper, Washington County, North Carolina being described as follows: BEGINNING at an existing iron rod set on the southeastern right of way of NC Highway 32 in the Town of Roper and being a common corner for the Creywood Oil Company and Petty Greene having NC Grid Coordinates of N=782089.54610, E=2704985.35667 (NAD 83). Said point of beginning being located S 18-37-08 E 831.37 feet from NCGS Station "TOMBS" having NCGS Grid Coordinates of N=782877.4041, E=2704719.8530 (NAD 83). Thence from the POINT OF BEGINNING being established and running along the line of Creywood Oil Company S 42-25-39 E 224.80 feet to an existing iron rod on the northwestern right of way of Buncombe Street S 54-25-08 W a chord distance of 29917 feet with a radius of 4,392.72 feet to an existing iron pipe, thence turning and running along a new division line for Peggy Greene N 34-39-10 W 203.42 feet to an iron rod set on the southeasterly right of way of NC Highway 32, thence running along the right of way for NC Highway 32 N 50-17-51 E 269.92 feet to the existing iron rod, the POINT OF BEGINNING. Said property containing 1.40+/- acres and being shown as Tract 1 on a survey prepared by Roanoke Land Surveying for Peggy Greene dated March 23, 2010 and recorded in Plat Cabinet 3, Slide 36D, Washington County Registry.

All or a portion of the property herein conveyed \_\_\_\_ does or x does not include the primary residence of a Grantor.

**TO HAVE AND TO HOLD** the aforesaid lot, tract or parcel of land and all privileges and appurtenances thereunto belonging to the said Grantee, its successors, heirs and assigns, in fee simple forever.

And the said Grantor covenants with the Grantee, that Grantor is seized of the premises in fee simple, has the right to convey the same in fee simple; that title is marketable and free and clear of all encumbrances; and that Grantor will warrant and defend the said title to the same against the lawful claims of all persons whomsoever, except for the exceptions set out aforesaid and hereinafter stated.

Title to the property hereinabove described is subject to the following exceptions:

- 1) Noncompliance with any local, county, state or federal government laws, ordinances, or regulations relative to zoning, subdivision, occupancy, use, construction or the development of the subject property.
- 2) Information for preparation of this Deed was furnished by Grantor and/or Grantee. Attorney makes no representations or warranties as to the status of this description, title or whether this land is encumbered by taxes, mortgages, or other liens.

IN WITNESS WHEREOF, the Grantor has caused this instrument to be signed  
in this corporate name by its duly authorized office, the day and year first above written.

KME Development, LLC  
An Alabama Limited Company

by [Signature]

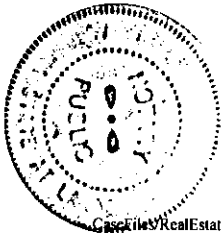
Title President

State of Alabama City/County of Madison

I, Lisa Hawkins, a Notary Public of said State and City/County,  
certify that Robert Broadway personally came before me this day and  
acknowledged that he/she is President of KME Development, LLC, an  
Alabama Limited Liability Company, and that he/she as President, being  
authorized to do so, executed the foregoing on behalf of the corporation.

Witness my hand and stamp/seal this 16 day of February, 2012.

stamp/seal



[Signature]

Notary Public

Printed Name Lisa Hawkins

My Commission Expires 04-06-14





(NOT TO SCALE)

AC - ACRES  
ECM - EXISTING CONCRETE MONUMENT  
ED - EXISTING IRON PEG  
EP - EXISTING PPK NAIL  
ERS - IRON ROD SET - 1/2" REDBAR  
ER - EXISTING IRON ROD  
E8 - EIGHT OF NAIL  
F - SQUARE FEET  
EA - EXISTING IRON AXLE  
EWS - EXISTING IRON ROAD SPIKE  
CSS - CONCRETE SPINDLE SET  
ENC - EXISTING NAIL & CAP  
C/L - CENTER LINE  
P - PHONE POLE  
PP - POWER POLE  
LP - LIGHT POLE  
E - ELECTRICAL LINES  
T - TELEPHONE LINES  
NPS - NO POINT SET  
PRCS - PRRS  
ERAIL - EXISTING RAILROAD LINE  
D.M.D. - DOUBLE MERIDIAN DISTANCE  
D.B. - DEED BOOK  
PG - PAGE  
CC - CORNER CORNER  
N/S - NAIL SET  
P/L - PROPERTY LINE  
W - WATER  
WATER - WATER

ZONED - HC ( HIGHWAY COMMERCIAL )  
MINIMUM LOT AREA 20,000 SQ. FT.  
WIDTH AT FRONT LINE 100'  
DEPTH 100'  
SETBACKS  
FRONT - 30'  
REAR INTERIOR - 25'  
REAR STREET - 30'  
SIDE INTERIOR - 10'  
SIDE STREET - 30'  
MAXIMUM HEIGHT - 35'  
LOCATED IN ZONE X AND SHADED X  
FEMA FIRM # 3720770800J DATED;  
SEPT. 19, 2007

X THE SURVEY CREATES A SUBDIVISION OF LAND WITHIN THE AREA OF A COUNTY OR MUNICIPALITY THAT HAS AN ORDINANCE THAT REGULATES LAND.

\_\_\_\_\_ THE SURVEY IS LOCATED IN A PORTION OF A COUNTY OR MUNICIPALITY THAT IS UNREGULATED AS TO AN ORDINANCE THAT REGULATES PARCELS OF LAND.

\_\_\_\_\_ THE SURVEY IS OF AN EXISTING PARCEL OR PARCELS OF LAND AND DOES NOT CREATE A NEW STREET OR CHANGE AN EXISTING STREET.

\_\_\_\_\_ THE SURVEY IS OF AN EXISTING BUILDING OR OTHER STRUCTURE, OR NATURAL FEATURE, SUCH AS A WATERCOURSE.

\_\_\_\_\_ THE SURVEY IS A CONTROL SURVEY.

\_\_\_\_\_ THE SURVEY IS OF ANOTHER CATEGORY, SUCH AS THE RECOMBINATION OF EXISTING PARCELS, A COURT-ORDERED SURVEY, OR OTHER EXCEPTION TO ITS DEFINITION OF SUBDIVISION.

\_\_\_\_\_ THE INFORMATION AVAILABLE TO THE SURVEYOR IS SUCH THAT THE SURVEY IS UNABLE TO MAKE A DETERMINATION TO THE BEST OF THE SURVEYOR'S PROFESSIONAL ABILITY AS TO THE EXISTENCE OF A WATERCOURSE.

*Randolph P. Nicholson*  
RANDOLPH P. NICHOLSON, P.L.S. L-2740



BOOK 3 PAGE 36D (1)



Filed: 10/18/2010 01:02:55 PM  
Elaine G. Vann, Register of Deeds  
Washington County, NC

Elaine B Vann

KNOWLES ST.

BUNCOMBE STREET

THE TOWN OF ROPER DOES HEREBY APPROVE THIS FINAL PLAT.  
Debbie Walker 10/18/10  
 MAYOR OR TOWN ADMINISTRATOR DATE

Verif. corrected 10/18/54 By Tim Eade.  
File # 72-18-41-7715

144,345 +/- SQ. FT.  
3.31 +/- ACRES  
( TOTAL )

D.B. 371 PG. 653  
D.B. 369 PG. 507  
P.C. 1. SL 160  
PIN #7708.18-41-771

SUBJECT TO ALL R/W'S, EASEMENTS,  
ZONING REGULATIONS, AND/OR  
RESTRICTIVE COVENANTS OF RECORD  
AND NOT SHOWN HEREON.  
UTILITIES SHOWN WERE LOCATED BY  
ULOCO. ALL UTILITIES SHOULD BE  
VERIFIED BY CONTRACTOR BEFORE  
CONSTRUCTION.

EVERY DOCUMENT OF RECORD  
REVIEWED AND CONSIDERED AS PART  
OF THIS SURVEY IS NOTED HEREON.  
NO ABSTRACT OF TITLE, NOR TITLE  
COMMITMENT, NOR RESULTS OF TITLE  
SEARCHES WERE FURNISHED THE  
SURVEYOR. THERE MAY EXIST OTHER  
DOCUMENTS OF RECORD THAT WOULD  
AFFECT THIS PARCEL.

1. DEED BOOK \_\_\_\_\_, PAGE \_\_\_\_\_  
2. AS NOTED.

403-409 NC HWY. 32 N  
ROPER, NC 27970

MARCH 23, 2010

SCALE 1" = 60 FEET

**SURVEY FOR:**

PEGGY GREENE

TOWN OF ROPER - WASHINGTON COUNTY, NORTH CAROLINA

**ROANOKE**

**LAND**

## SURVEYING

P.O. BOX 1193  
WILLIAMSTON, N.C.

PH. (252) 792-2276  
PH. (252) 794-9664

CELL PHONE  
(252) 802-0196

I, RANDOLPH P. NICHOLSON, CERTIFY THAT THIS MAP WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL GPS SURVEY MADE UNDER MY SUPERVISION; THAT THIS GPS SURVEY WAS PERFORMED 0 TO HORIZONTAL 3RD ORDER CLASS 1 FGCC SPECIFICATIONS AND THAT I USED RTK - GPS FIELD PROCEDURES AND COORDINATES WERE OBTAINED BY POST PROCESS ADJUSTMENTS. THAT THIS SURVEY WAS PERFORMED ON 3/18/10 USING TOPCON HYPERLITE + WITH TWO RECEIVERS AND ALL COORDINATES ARE BASED ON NAD 83 (NAD 83).  
WITNESS MY HAND AND SEAL THIS 23, MARCH, 2010.

I, RANDOLPH P. NICHOLSON, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION (DEED DESCRIBED IN BOOK       , PAGE       ), THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AS DRAWN FROM INFORMATION FOUND IN BOOK       , PAGE       ; THE RATIO OF PRECISION AS CALCULATES IS 1:110,000. THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH G.S. 47-30 AS AMENDED. WITNESS MY HAND AND SEAL THIS 23 DAY OF MARCH, 1970.

STATE OF NORTH CAROLINA  
COUNTY OF WASHINGTON

OFFICER OF WASHINGTON COUNTY,  
CERTIFY THAT THE MAP OR PLOT TO WHICH THIS  
CERTIFICATION IS AFFIXED MEETS ALL STATUARY  
REQUIREMENTS FOR RECORDING.

REVIEW OFFICER USA Kim DATE 10/15/10

REVISIONS:

DATE:	COMME
XXX	XXX

JOB #: N-8354-ROPERBOTHTRACTS	
DRAWN:	APPROVED:

DATE:	COMME
XXX	XXX



# COUNTY OF WASHINGTON

## BOARD OF COMMISSIONERS

### COMMISSIONERS:

D. COLE PHELPS, CHAIR  
JULIUS WALKER, JR., VICE-CHAIR  
TRACEY A. JOHNSON  
BUSTER MANNING  
WILLIAM "BILL" R. SEXTON, JR.



POST OFFICE BOX 1007  
PLYMOUTH, NORTH CAROLINA 27962  
OFFICE (252) 793-5823 FAX (252) 793-1183

ADMINISTRATION STAFF:  
W. MACK CARAWAN, JR.  
COUNTY MANAGER  
wcarawan@washconc.org

JULIE J. BENNETT, CMC, NCCCC  
CLERK TO THE BOARD  
jbennett@washconc.org

CURTIS S. POTTER  
ASSISTANT COUNTY MANAGER/  
COUNTY ATTORNEY  
cpotter@washconc.org

### WASHINGTON COUNTY RESOLUTION SUPPORTING THE APPLICATION FOR A GRANT FROM THE NORTH CAROLINA 911 BOARD

**WHEREAS**, the current PUBLIC SAFETY ANSWERING POINTS or PSAP providing service and answering 911 calls for Washington County are handled through a system financed, in part, from 911 funds by the North Carolina 911 Board under G. S. 62A-46(c); and

**WHEREAS**, Washington County will be soon be required to provide a back-up PSAP in accordance with applicable state laws; and

**WHEREAS**, Washington County is a Tier I county faced with significant economic hardships and budgetary constraints upon funding for the development of additional projects and facilities; and

**WHEREAS**, the North Carolina 911 Board will soon comprise a grant cycle which will include the E911 Individual PSAP Enhancement/Replacement intending to provide funding for those jurisdictions seeking funding from 911 Board monies; and

**WHEREAS**, the Washington County Board of Commissioners support the grant proposal for Individual PSAP Enhancement/Replacement PSAP by this resolution and intend to authorize and support an application for grant funding under E911 Individual PSAP Enhancement/Replacement adopted by the North Carolina 911 Board in order facilitate compliance with the requirement to provide a backup PSAP in the future.

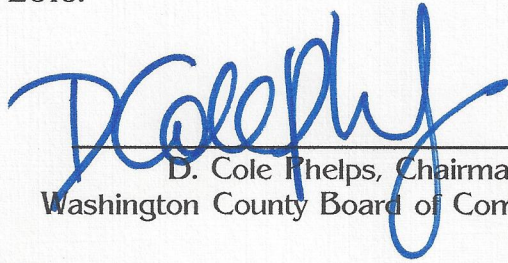
**NOW, THEREFORE, BE IT RESOLVED** by the Board of Commissioners of Washington County as follows:

1. That the Board of Commissioners of Washington County hereby expresses its support for the application of a grant proposal under the Individual PSAP Enhancement /Replacement, and is in the process of obtaining a building for the development of a backup PSAP facility, and
2. To facilitate and finance, or partially finance, the development of a backup PSAP facility to serve Washington County, the application for a grant under the E911 Individual PSAP Enhancement/Replacement program is authorized and may be submitted to the North Carolina 911 Board when the applications for funding become available; and

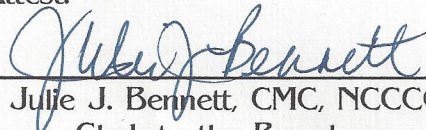


3. In order to facilitate the application and grant writing process, the application shall be submitted and any grant funds received may be administered by Washington County as required by the E911 Individual PSAP Enhancement/Replacement program, and

ADOPTED this the 6<sup>th</sup> day of June 2016.

  
D. Cole Phelps, Chairman  
Washington County Board of Commissioners

Attest:

  
Julie J. Bennett, CMC, NCCCC  
Clerk to the Board





# **WASHINGTON COUNTY E911 STRATEGIC TECHNOLOGY PLAN**

## **TABLE OF CONTENTS**

Mission, Vision, Goals and Values.....	1
Organizational Chart.....	2
Objectives.....	3
Strategies.....	4
Communication's Community Support System.....	5
Initiatives and Projects.....	7
Long Range Plan for IT.....	8
Phase Two Technology.....	9

## MISSION

We will support Washington County Communications by providing innovative, cost effective, dependable technology that will fulfill the needs of our growing county and all who pass through it.

We will provide the best possible, trouble free network for the citizens we serve to access emergency services by dialing 9-1-1; to provide the best technology to Washington County. We are using telephone interpreting services to be able to guide our non-English speaking visitors and citizens of Washington County to provide emergency services for them in their time of need.

We also strive to provide high-quality, responsive technical support to the many radio, computer and special electronic systems used by the EMS, Police, Sheriff and Fire Departments and will perform this mission by providing the newest state-of-the-art technology.

## **VISION**

Public Safety Communications = Teamwork, Technology and Excellence.

## **GOALS**

To deliver superior customer service

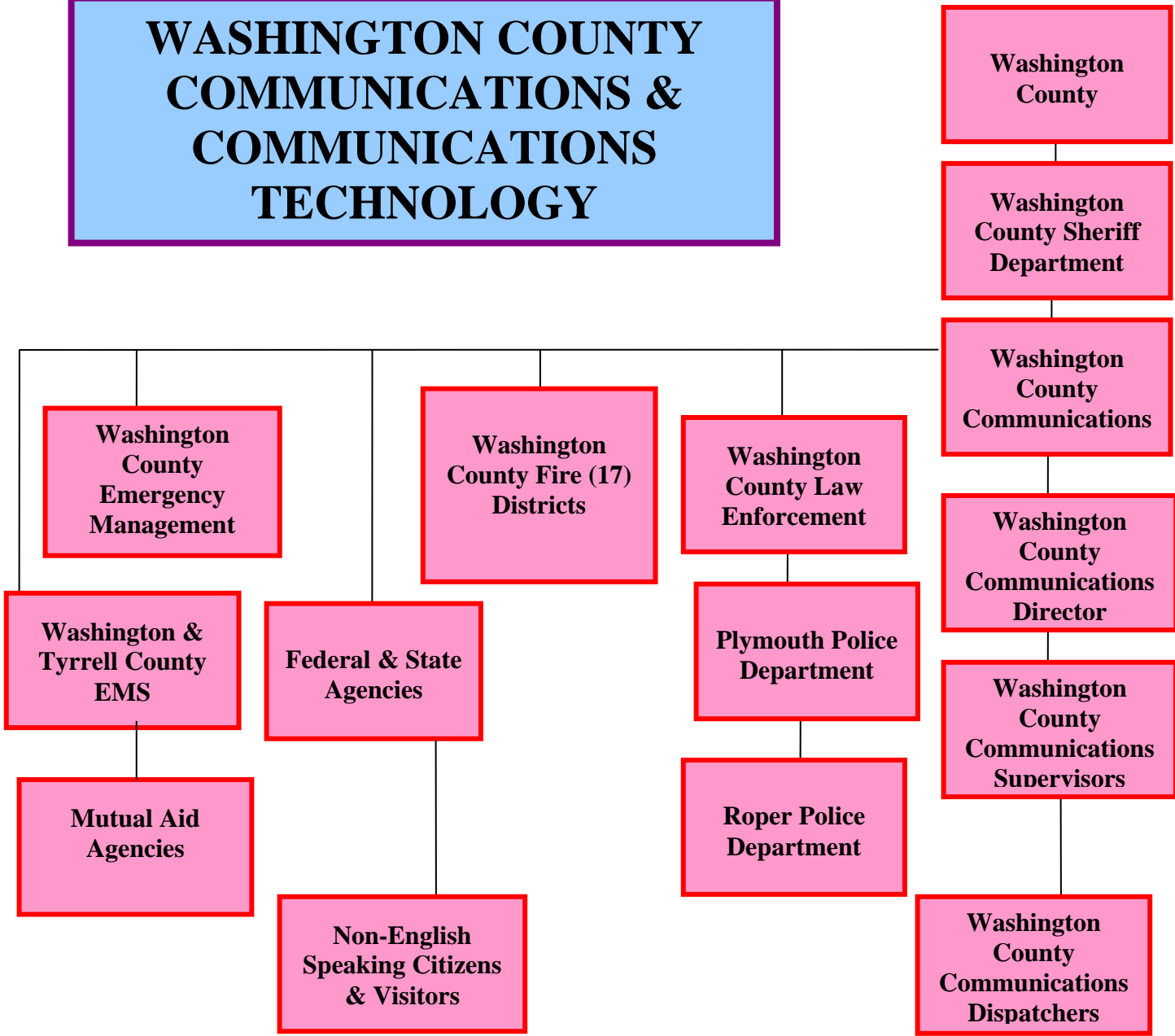
Use technology to improve effectiveness and performance

Proactively expand technology solutions

## **VALUES**

- Teamwork
- Honesty
- Openness
- Excellence in Service
- Communication

# **WASHINGTON COUNTY COMMUNICATIONS & COMMUNICATIONS TECHNOLOGY**



## **OBJECTIVES**

Our objectives are to provide a progressive structured state-of-the-art system to enhance the IT environment for Washington County Communications.

Having additional space and supporting best practices in training requirements through technology advances would allow educating and training of staff.

To have a training program that will train all users by having clear, concise and cohesive technical training for any and all future communicators.

To allow access of information at anytime, anywhere, whether in the office, out in the field or on the road.

To be responsible in how funding is spent making sure we invest in needed technology that will meet the needs of the county in a wise and economical fashion.

Be prepared to deliver technology solutions that will benefit the County Communications into the future.

To provide support that helps enforce the Communication's Mission Statement by data sharing, collaborating, and building a workplace of the present and the future that will make this county a leader in years to come.

## STRATEGIES

The strategies of the County Communication's IT is to meet the needs of the County today and in the future.

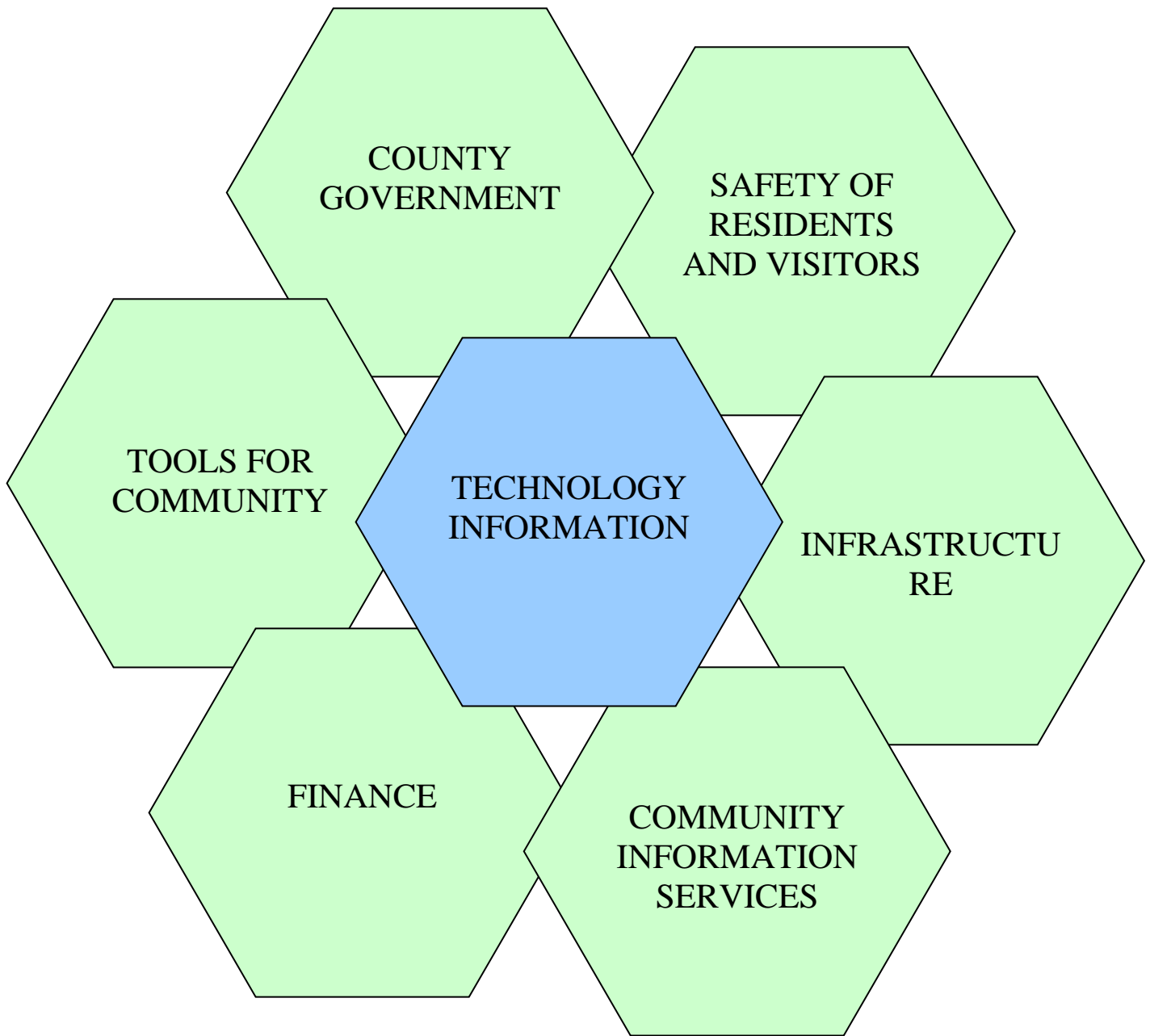
Being able to link different computing systems, software and hardware to have it cohesively function together.

To have a countywide intranet for interagency communications therefore reducing costs and improving the efficiency of document and information sharing.

Installing IP phones in all county offices therefore making the county's phone system more cost effective.

To make sure all county personnel can communicate through real time technology i.e. instant messaging, video conferencing, data sharing, and telephony.

# WASHINGTON COUNTY TECHNOLOGY COMMUNICATIONS COMMUNITY SUPPORT SYSTEM



Washington County Communications IT Department pledges to provide Washington County Emergency Services, County Departments and Offices, and any other Entities that interface with our communications center the best technology accomplishments that we have to better serve all citizens and visitors to Washington County.

**FINANCE** - We strive to support the budgeted and monetary needs of our County Communications through inventive support and knowledge always being good stewards of the 911 and county funds.

**COMMUNITY INFORMATION SERVICES** - We focus on providing technology information tools to the Communications staff, county government, and our partners to be able to deliver needed services to the visitors and citizens of Washington County.

**INFRASTRUCTURE** - Our primary goal is to provide an excellent IT environment that empowers the emergency services, users, staff and customers of Washington County Communications so they can deliver high-quality services in a timely and effective fashion.

**TOOLS FOR COMMUNITY-** One of our main goals is to offer real-time information and assist communications through the Washington County Sheriff's and the Washington County Government web-site which are gateways that can be used by the citizens of Washington County.

**COUNTY GOVERNMENT-** It is our goal to provide the county government and leadership of Washington County with state-of-the-art technology so that the data they need for emergency services and to make decisions is readily accessible.

**SAFETY OF RESIDENTS AND VISITORS-** We pledge to provide law enforcement and public safety i.e. fire, EMS, EMA with advanced technology through implementation and design of interoperable systems that are used by our county and other agencies.



## INITIATIVES & PROJECTS

- Telephone upgrades to IP phone system
- Intranet Design and Implementation
- Upgrading Microsoft Technology
- Expanding Mobile Technology
- Computer-aided Dispatch
- EMD Certification
- Schedule Updates for Software
- Install Viper Anti-virus Protection
- Install Malware Protection
- Office Desktop Upgrades (including new monitor, cpu, keyboards and mouse)
- Enhancements in Security

- Expansion of Wireless Network
- Servicing Washington County's Emergency Services Dispatch
- Network Monitoring
- Domain and Network Expansion for County Agencies as well Communications Center

## LONG RANGE IT PLAN

FY 16-17

Refresh main 911 consoles  
Retrofit backup center  
Install Microwave Tower  
Install New Software and Hardware  
Install New Consoles  
Install New CAD System  
Install Desktop Computers  
Install Monitors  
Install Laptops

## FY 23-24

Replace Backup 911 Equipment

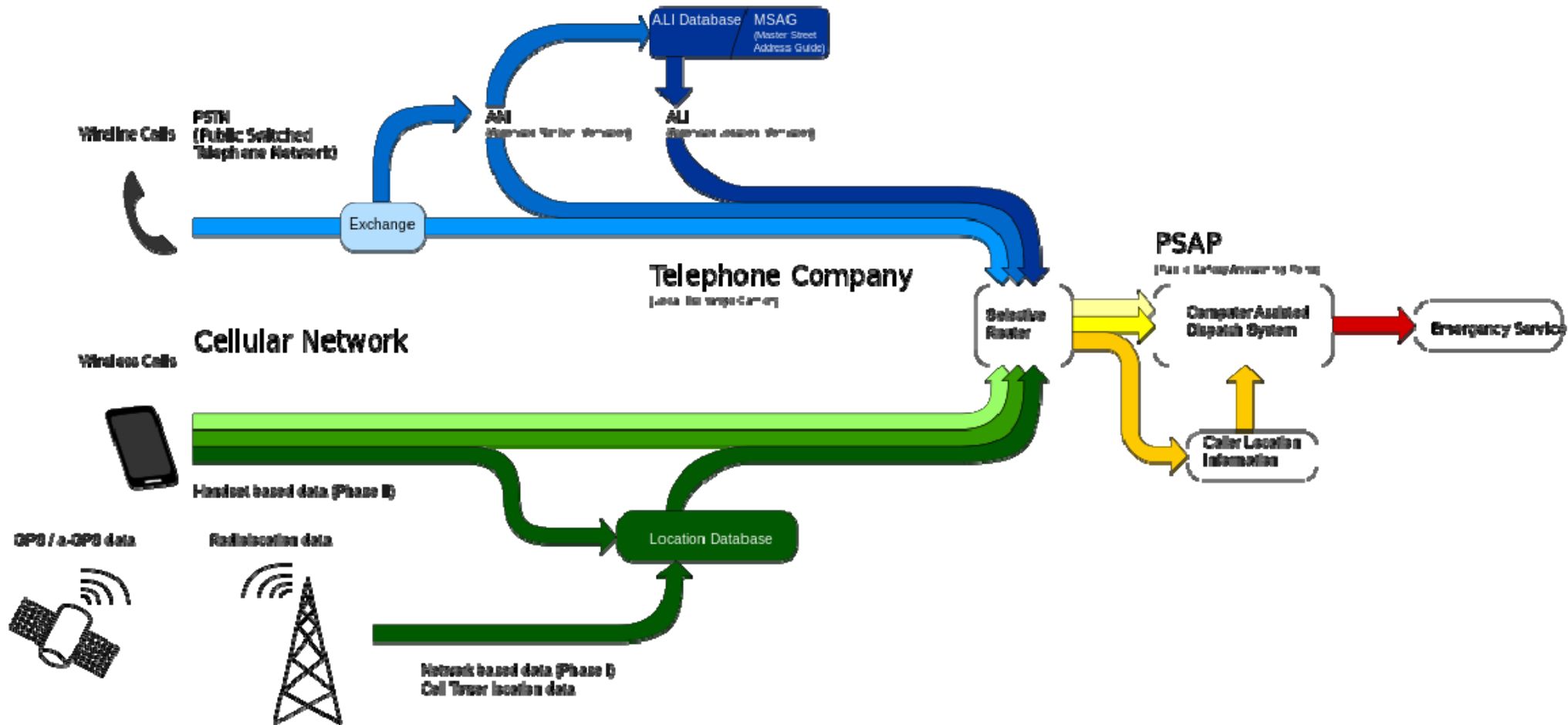
Replace CAD

Replace Monitor

Replace Laptop

Replace Server

# PHASE TWO TECHNOLOGY







## Sales Quote #128558

by Tim Martin

Date 5/9/2016

110 South Regent Street, Suite 500  
Salt Lake City, UT 84111  
(801) 363-9127 \* (801) 363-9144 fax  
(800) 363-9127 toll-free

Bill To: Washington County Communications  
Attn: Delisa Johnson  
120 Adams St  
P.O. Box 1007  
Plymouth, NC 27962

Ship To: Washington County Communications  
Attn: Delisa Johnson  
120 Adams St  
P.O. Box 1007  
Plymouth, NC 27962

For: Washington County Communications  
Attn: Delisa Johnson  
120 Adams St  
P.O. Box 1007  
Plymouth, NC 27962

Phone: (252)793-2422 Fax:

Qty	Description	Unit Price	Extended Price
3	ProQA Software Licenses - backup (Medical - Paramount - Standard - North American English) Offsite, backup location software	\$1,750.00	\$5,250.00
1	Annual Maintenance - Basic Package (ESP) for ProQA Software (Medical - Standard - North American English) License renewal, service and support	\$393.75	\$393.75
Sub-Total:			\$5,643.75
Tax:			\$0.00
Shipping & Handling:			\$40.00
Total:			\$5,683.75

This quote is valid for 120 days from date of issue. Unless otherwise agreed to in writing, all prices quoted are exclusive of any applicable sales, use, withholding and other taxes, duties, or government assessments relating to this transaction, which are the sole obligation of Buyer. Payment terms are Net 30 unless otherwise noted.

Seller will use reasonable efforts to deliver products on time, but will not be liable for any expenses or damages incurred as a result of late delivery or for circumstances beyond Seller's reasonable control. Shipments are made F.O.B. origin, which is Salt Lake City, UT, USA. All insurance expenses and risk of loss are assumed by Buyer.

Purchasing or signing below acknowledges your agreement to the terms above and to the "break the seal" or "click to accept" license agreement associated with the licensed product(s). The license agreement is included with the licensed product(s) and you will have the opportunity to read it before opening or installing. If unacceptable, you may return the licensed product(s) within 10 days of receipt for a refund, less any applicable restocking fees and original shipping charges.

Sign here X \_\_\_\_\_ Date \_\_\_\_\_

Payment Method: (Check enclosed, or...)

[ ] Purchase Order # \_\_\_\_\_

[ ] VISA/MasterCard/AMEX # \_\_\_\_\_

Expiration: \_\_\_\_\_

*"To lead the creation of meaningful change in public safety and health."*



**SOUTHERN SOFTWARE, INC.**  
an employee-owned company

**Agency:** Washington County Communications, NC

**Contact:** Dalisa Johnson

**Date:** 4/26/2016

HARDWARE AND SOFTWARE		Qty	
<b>SERVER</b>	<b>PowerEdge R320, Intel® Xeon® E-24XX v2 Processors</b>	2	\$41,934.00
Warranty & Service	ProSupport Plus: 3 Year Mission Critical 4 hr Onsite Service		
Add-in Network Adapter	On-Board Broadcom 5720 Dual Port 1Gb LOM		
Embedded Systems Management	iDRAC7 Express		
Chassis Configuration	3.5" Chassis with up to 4 Hot Plug Hard Drives		
RAID Configuration	RAID 5 for H710/H310 (3-8 HDDs)		
RAID Controller	PERC H310 Integrated RAID Controller		
Processor	Intel® Xeon® E5-2430L v2 2.40GHz, 15M Cache, 7.2GT/s QPI, Turbo, 6C, 60W, Max Mem 1600MHz		
Memory Capacity	(6) 16GB RDIMM, 1600MT/s, Low Volt, Dual Rank, x4 Data Width		
Memory DIMM Type and Speed	1600MT/s RDIMMS		
Memory Configuration Type	Performance Optimized		
Hard Drives	(4) 2TB 7.2K RPM SATA 3Gbps 3.5in Hot-plug Hard Drive		
System Documentation	Electronic System Documentation and OpenManage DVD Kit for R320		
Internal Optical Drive	DVD+/-RW, SATA, Internal for 4HD Chassis		
Rack Rails	ReadyRails™ Sliding Rails Without Cable Management Arm		
Power Supply	Dual, Hot-plug, Redundant Power Supply, 350W		
Power Cords	(2) NEMA 5-15P to C13 Wall Plug, 125 Volt, 15 AMP, 10 Feet (3m), Power Cord		
Operating System	Windows Server® 2012R2, Standard Ed, Factory Inst, No MED, 2SKT, 2VM, NO CAL		
OS Media Kits	Windows Server® 2012R2, STD Ed, Media Kit w/Factory Inst STD DGRD Images		
OS Media Kits	Windows Server 2008R2, 2012 Standard Edition, Downgrade Media, Eng		
Database Software	Microsoft® SQL Server™ 2014 STD, 5USER CALs, NFI, w 2012 DGRD Media		
Client Access Licenses	(2) 5-pack of Windows® Server 2012 User CALs (Standard or Datacenter)		
Client Access Licenses	Microsoft® SQL Server™ 2014 Standard, 5 USER CALs Only, No Media		
Backup Drive	RD1000 Ext USB 3.0 Drive Bundled with SW/CBL		
RD1000 Removable Disk Media	QTY 3, Removable Hard Disk Cartridge for RD1000, 2TB Native		
Backup Software	Nova Backup Business Essentials V. 16		
Antivirus	Symantec Endpoint 11 users		
Switch	24 Port Rack Mounted Switch		
KVM Console	TrippLite NetDirector Console KVM Switch with 17-inch LCD Screen/Keyboard/Touchpad		
UPS	19-inch SMART 1500RML2Ua Rack-Mountable UPS System		
Rack	APC NetShelter SV - Rack - black - 42U - 19-inch		
Mounting Bracket	Dell 1U KVM Mounting Bracket		
<b>Wireless Messaging for CAD (with 5 additional Paging Connectors)</b>		1	\$1,000.00
<i>For Backup Center</i>			
<b>CAD with MDS for EOC</b>		3	FREE
<b>* Neverfail for Physical Server (1 Pair) (Note: first year support included; 2nd year payable to Neverfail - Approx. \$1,000)</b>		1	\$4,995.00
<b>Installation (Southern Software Technician onsite for Hardware and Neverfail Installation; Onsite installation by Neverfail)</b>		1	\$7,750.00

**TOTAL INVESTMENT** (STATE TAX AND SHIPPING NOT INCLUDED) **\$55,679.00**

50% due upon signing proposal; 50% due upon completion of installation.

**CUSTOMER'S SIGNATURE** \_\_\_\_\_ **DATE** \_\_\_\_\_

Please sign this document and return it to us by fax or mail. When the document is signed and returned to Southern Software, we will begin processing your order.

Proposal of hardware is valid for (30) days from date of proposal..

***Contact information for Public Safety Representative:***

**Mike Moody  
Southern Software  
150 Perry Drive  
Southern Pines, NC 28387**

**Business: 800.842.8190  
Mobile: 910.603.3481  
Fax: 910.695.0251  
E-Mail [mmoody@southernsoftware.com](mailto:mmoody@southernsoftware.com)**



**The SoundSide Group, Inc.**

Phone: (252)793-9226  
Fax: (252)793-9253  
125 West Water Street  
Plymouth, NC 27962

**Quote # 14254**

Date: 04/18/2016

Prepared for: Darlene Fikes  
Washington County 911  
120 Adams Street  
PO Box 1007  
Plymouth, NC 27962 U.S.A.

Prepared by: Laura D. Reid  
Email: quotes@soundsidegroup.com

**Ldr - Wash Co 911 - PSAP relocation/backup**

LN	Qty	Description	UOM	Price	Total
<b>SERVER</b>					
1	1	Dell PE R530, 2x E5-2630v3 2.4GHz 20m, 6x600GB 15K RPM SAS 12Gbps RAID10 64GB (2x32) RAM, DVD+/-RW 2x8GB SD Card 5 yr Mission Critical,	EA	\$10,105.00	\$10,105.00
<b>SOFTWARE</b>					
2	1	Microsoft Windows Server Standard 2012 R2 English Local Government OPEN 1 License No Level 2 PROC	EA	\$669.00	\$669.00
3	10	Microsoft Windows Server 2012 - License - 1 device CAL - local - MOLP: Government - English	EA	\$30.00	\$300.00
4	1	Microsoft SQL Server 2014 Standard - License - 1 server - local - MOLP: Government - Win - English	EA	\$687.00	\$687.00
5	10	Microsoft SQL Server 2014 - License - 1 device CAL - local - MOLP: Government - Win - English	EA	\$160.00	\$1,600.00
6	3	Veritas System Recovery Desktop Edition - On-Premise license + 1 Year Essential Support - 1 device - GOV - GLP - Win	EA	\$57.00	\$171.00
7	3	System Recovery Server Ed Windows 1svr Standard Ess 12mo Mnt Bundle GOV	EA	\$560.00	\$1,680.00
8	1	Pro Server (includes full monitoring, AV, 3rd party patch) 60 month subscription	EA	\$2,100.00	\$2,100.00
9	3	Pro Workstation (includes full monitoring, AV, 3rd party patch 60 month subscription	EA	\$480.00	\$1,440.00
10	1	VMware vSphere v.6.0 Essentials Kit - License - 2 Processor Per Host, 3 Host	EA	\$475.00	\$475.00
<b>INTERFACE</b>					
11	1	DB-9M Modem Adapter	EA	\$56.00	\$56.00
12	1	Digi PortServer TS RJ-45 Device server - 2 ports - RS-232	EA	\$335.00	\$335.00
13	1	Multi-Tech Systems 56Kbps External Modem	EA	\$89.00	\$89.00
14	1	Digi AnywhereUSB 2 port USB over IP Hub	EA	\$219.00	\$219.00
<b>CAD WORKSTATIONS</b>					
15	3	Dell Precision 3420, Xeon E3-1225 4C 3.3 GHz, Win 7 Pro/Win 10 Pro, 8GB RAM, 256GB SSD, 8X DVD RW, AMD Fire Pro graphics, 5 YR Pro Support w/ NBD	EA	\$1,416.00	\$4,248.00
16	12	Dell 23 Monitor, P2314H, 23.0" Inch VIS, Wide Viewing Angle, VGA/DVI/DP/USB 5YR Limited Warranty Monitor, Advanced Exchange	EA	\$269.00	\$3,228.00
17	3	Dell USB SoundBar	EA	\$36.00	\$108.00
<b>NETWORK</b>					

**Quote # 14254**

Date: 04/18/2016

LN	Qty	Description	UOM	Price	Total
18	1	Cisco Catalyst 2960XR-48LPD-I - Switch - L3 - managed - 48 x 10/100/1000 (PoE+) + 2 x SFP+ - desktop, rack-mountable - PoE+	EA	\$6,635.00	\$6,635.00
19	1	Cisco - power supply - hot-plug / redundant - 640 Watt	EA	\$625.00	\$625.00
20	5,090	60 mos SNTP-SMARTnet Premium 24x7x4 HW warranty & SW support with replacement of defective part by 24x7x4hr-parts only free	EA	\$1.25	\$6,362.50
21	15	7 Foot 500Mhz Cat6 Patch Cable - Blue	EA	\$4.00	\$60.00

**NETWORK STORAGE**

22	1	Synology DiskStation 5-Bay (Diskless) Network Attached Storage (NAS) 3yr limited warranty	EA	\$763.00	\$763.00
23	5	Seagate internal 3TB 7200RPM 128MB Cache SATA/6Gb/s NO ENCRYPTION 5 yr warranty	EA	\$194.00	\$970.00
24	1.00	Estimated Technical Labor	HR	\$8,000.00	\$8,000.00

**Sub-Total: \$50,925.50**

Freight: \$350.00

Sales Tax: \$3,461.10

Prices are firm until 5/8/2016

Terms: Net 30 Days

**Total: \$54,736.60****Accepted by:** \_\_\_\_\_**Date:** \_\_\_\_\_**Disclaimer**

PLEASE DO NOT PAY FROM QUOTE - INVOICES WILL BE MAILED SEPARATELY. This sales quote is valid for 20 days, however be aware that equipment pricing is subject to change based on manufacturer change-outs or discontinuation of product lines. If labor estimates are not specified on the quote, this means that they are "To Be Determined" (TBD) and will be billed separately.

**The SoundSide Group, Inc.**

Phone: (252)793-9226  
Fax: (252)793-9253  
125 West Water Street  
Plymouth, NC 27962

**Quote # 14365**

Date: 05/13/2016

Prepared for:  
Washington County 911  
120 Adams Street  
PO Box 1007  
Plymouth, NC 27962 U.S.A.

Prepared by: Laura D. Reid  
Email: quotes@soundsidegroup.com

**Ldr - Washington Co 911 - Grounding Assessment**

LN	Qty	Description	UOM	Price	Total
1		Grounding assessment for the new data center for network equipment, racks, servers and telecommunication equipment for E911.		\$1,200.00	\$1,200.00
2		\$475.00 of the above amount will go towards the implementation if you proceed with the recommendations			

**Sub-Total: \$1,200.00**  
Sales Tax: \$81.00

Prices are firm until 6/2/2016

Terms: Net 30 Days

**Total: \$1,281.00****Accepted by:** \_\_\_\_\_**Date:** \_\_\_\_\_**Disclaimer**

PLEASE DO NOT PAY FROM QUOTE - INVOICES WILL BE MAILED SEPARATELY. This sales quote is valid for 20 days, however be aware that equipment pricing is subject to change based on manufacturer change-outs or discontinuation of product lines. If labor estimates are not specified on the quote, this means that they are "To Be Determined" (TBD) and will be billed separately.



May 14, 2016

Martin Chriscoe, 919-980-0925

**Budgetary Pricing – Washington County**  
**Price Summary**

- |   |                     |
|---|---------------------|
| 1. Motorola MCC5500 Consoles, New<br>Communications Center                            | Total: \$219,296.00 |
| 2. Long Haul Microwave System   | Total: \$116,576.00 |
| 3. Motorola MCC5500 Consoles Refresh,<br>Existing Communications Center<br>(Plymouth) | Total: \$38,311.00  |



**MOTOROLA SOLUTIONS**

May 14, 2016  
Martin Chriscoe, 919-980-0925

**Budgetary Pricing – Washington County**

**Motorola MCC5500 Consoles, New  
Communications Center (Roper)**

**Total: \$219,296.00**

Includes:

- 1. All Equipment - \$147,036.00
- 2. SI/Services - \$72,260.00
- Total: \$219,296.00

Year's 2-5 Post Warranty and Maintenance - \$43,627.00

•	<b>Year 2</b>	<b>\$10,122.00</b>
•	<b>Year 3</b>	<b>\$10,629.00</b>
•	<b>Year 4</b>	<b>\$11,159.00</b>
•	<b>Year 5</b>	<b>\$11,717.00</b>

Site Name	Major Equipment
Washington County Dispatch	Three (3) Position MCC 5500 Dispatch Console
	Four (4) APX 7500 Consolettes, one VHF and 3 700/800MHz

# MCC 5500 DISPATCH SOLUTION EQUIPMENT LIST

This section lists the equipment necessary for the proposed solution to the Washington County.

QTY	NOMENCLATURE	DESCRIPTION
		<b>MCC 5500 Consoles</b>
1	TRN7343	SEVEN AND A HALF FOOT RACK
3	L3358	CONSOLE ELECTRONIC SHELF (CES) II
3	CA00957AA	ENH: (2) YR EXT SVC PL A/ADV RPLCMT PER OPERATOR POSTION
3	L3550	DAP II FOR ANALOG,SB9600,ASTRO INTERFACES,INCL 2 ANALOG LICENSES
2	TT05249AA	ADD: 2 DIGITAL CHANNELS WITH LICENSE R2.5
3	DDN6918	T3 CABLE 2 FEET
3	L3359AC	MCC 5500 OP CAB II / PS CALIFORNIA COMPLIANT
3	DDN1052	CES/CAB CABLE 300 FOOT
3	B1914	MCC SERIES DESKTOP GOOSENECK MICROPHONE
6	B1913	MCC SERIES HEADSET JACK
6	B1912	MCC SERIES DESKTOP SPEAKER
3	BLN6732	FOOT, SWITCH TRADITIONAL

3	TT2833	COMPUTER, Z440 WORKSTATION WINDOWS 7 (NON RETURNABLE)
3	DDN2134	SOUND BLASTER AUDIGY FX PCIE SOUND CARD
3	CDN6673	CREATIVE LABS INSPIRE A60
3	DDN2089	DUAL IRR SW USB HASP WITH LICENSE (V47)
3	TT2482	IA FULL HARDENED CD (USE WITH MCC 5500 WINDOW 7 & SERVER 2008 R2 OS)
3	DSCDN6171B	TRACKERBALL (ONLY PS/2 & USB COMPATIBLE)
1	TT2833	COMPUTER, Z440 WORKSTATION WINDOWS 7 (NON RETURNABLE)
1	DDN6916	CSDM PROGRAM
1	DDN6924	CSDM COMPUTER CABLE (DB09) 25 FEET
1	TT2482	IA FULL HARDENED CD (USE WITH MCC 5500 WINDOW 7 & SERVER 2008 R2 OS)
1	TT2739	ML310E GEN8V2 SERVER WINDOWS SERVER 2008 R2 (SP1 64-BIT)
1	TT2482	IA FULL HARDENED CD (USE WITH MCC 5500 WINDOW 7 & SERVER 2008 R2 OS)
1	DDN8349AC	MCC5500 SPARES PACKAGE / CAB II PS CALIFORNIA COMPLIANT
1	CLN1856	2620-24 ETHERNET SWITCH
5	DSTG191	TECH GLOBAL EVOLUTION SERIES 19INCH NON TOUCH
1	DSGP951MMOT94	NETCLOCK 9483 MASTER CLOCK COMMAND CENTER PACKAGE W/ 8230 GPS ANTENNA
3	BLN6884	PUNCH BLOCK
3	BLN6200	AC POWER STRIP, 6 OUTLET
		<b>VHF CONSOLETTTE</b>
1	L30KSS9PW1 N	APX7500 SINGLE BAND VHF MID PO
1	GA00306	ADD: VHF MP PRIMARY BAND
1	G241	ENH: SW ASTRO READY (ANALOG)
1	G48	ENH: CONVENTIONAL OPERATION
1	G90	ADD: NO MICROPHONE NEEDED

1	CA01598	ADD: AC LINE CORD US
1	L999	ADD: FULL FP W/05/KEYPAD/CLOCK/VU
1	G78	ADD: 3 YEAR SERVICE FROM THE START LITE
1	HKN6233	ASSEMBLY,ACCESSORY,APX CONSOLETTES RACK MOUNT TRAY HARDWARE KIT
1	HKVN4289A	SOFTWARE,APX CPS DOWNLOAD - CURRENT VERSION
		<b>700/800 CONSOLETTES</b>
3	L30URS9PW1 N	APX7500 SINGLE BAND 7/800
3	GA00244	ADD: 7/800MHZ PRIMARY BAND
3	G806	ADD: ASTRO DIGITAL CAI OPERATION
3	G51	ENH: SMARTZONE OPERATION APX
3	G361	ADD: P25 TRUNKING SOFTWARE
3	G90	ADD: NO MICROPHONE NEEDED
3	CA01598	ADD: AC LINE CORD US
3	L999	ADD: FULL FP W/05/KEYPAD/CLOCK/VU
3	G78	ADD: 3 YEAR SERVICE FROM THE START LITE
3	HKN6233	ASSEMBLY,ACCESSORY,APX CONSOLETTES RACK MOUNT TRAY HARDWARE KIT
3	HMN1090C	ASSY,MIC,FRNT,GRY,STD PALM MIC (GCA)





**May 14, 2016**

**Martin Chriscoe, 919-980-0925**

## **Budgetary Pricing – Washington County**

### **Long Haul Microwave System**

**Total: \$116,576.00**

Includes:

1. Link from Courthouse to Plymouth Water Tank
2. Link from Plymouth Water Tank to Roper Comm. Tower
3. Link from Roper Comm. Tower to new 9-1-1 Center
4. All equipment and services, labor are provided
5. \*Washington County to provide 4.9 Ghz FCC license for microwave system. Wireless Communications will work customer to provide guidance, as required.
6. \*Washington County to obtain agreement with Town of Plymouth for use of water tank.



May 14, 2016  
Martin Chriscoe, 919-980-0925

## **Budgetary Pricing – Washington County**

### **Motorola MCC5500 Consoles Refresh, Existing Communications Center (Plymouth)**

**Total: \$38,311.00**

Includes:

- 1. All Equipment - \$26,210.00
- 2. SI/Services - \$12,101.00
- Total: \$38,311.00

Year's 2-5 Post Warranty and Maintenance - \$9,247.00 (not included in total, above)

- Year 2 \$2,146.00
- Year 3 \$2,253.00
- Year 4 \$2,366.00
- Year 5 \$2,483.00

Equipment to be replaced:

QTY	NOMENCLATURE	DESCRIPTION
		<b>PCs and Monitors</b>
3	TT2833	COMPUTER, Z440 WORKSTATION WINDOWS 7 (NON RETURNABLE)
3	DSTG221	TECH GLOBAL EVOLUTION SERIES 22INCH NON TOUCH
3	DDN2089	DUAL IRR SW USB HASP WITH LICENSE (V47)
3	CDN6673	CREATIVE LABS INSPIRE A60
3	DSCDN6171B	TRACKERBALL (ONLY PS/2 & USB COMPATIBLE)
3	DDN2134	SOUND BLASTER AUDIGY FX PCIE SOUND CARD
3	DSTG191	TECH GLOBAL EVOLUTION SERIES 19INCH NON TOUCH

## QUOTATION

<b>Proposed Work:</b>	24 Channels, 16 Analog and 8 Digital, NICE NRX with Inform Software, Legacy Data Migration from NiceCall Focus, Intrado Text Integration, WIN SERVER 2012, RAID 1 Configuration (1 x 1TB), Web Based Browser Based Interface, Dual Power Supply, NAS/SANS Archive Capability, DVD-RAM Drive, Multi-Channel Playback, Verify Instant Recall Software, Remote Monitoring, .WAV, WMA or Encrypted Format, Built-in Call Edit
<b>Quotation Date:</b>	March 2, 2016
<b>Prepared By:</b>	Todd Williams

**Prepared For:** Washington County Communications

**Attn:** Delisa Johnson

**Address:** 120 Adams St  
Plymouth, NC 27962

**Phone:** 252-793-2422

**Email:** [djohnson@washconc.org](mailto:djohnson@washconc.org)
**Install Location Contact:**
**Phone:**
**Email:**

Part Number	h/w,s/w lic	Quantity	Description	Price	Total
<b>System Specifications</b>					
RSS-RAID-PS	h/w,s/w	1	NRX Record System Server, 2012 Server, RAID Array, 2x1 TB Hard Drives, 8GB RAM, Dual Power Supply Configuration, DVD Drive	\$5,775.00	\$5,775.00
PS-NR-ANALOG-24	h/w	1	Analog board package for up to 24 channels	\$2,000.00	\$2,000.00
PS-NR-DIGITAL2W	hw	1	Digital 2-wire (parallel) board for up to 8 channels, 10m cable (short length PCI-E slot required)	\$1,250.00	\$1,250.00
INFRM-ESNT-SITE2	sw	1	Inform Essential Software Package inc. 1 NICE Recording Core Server, MySQL lic and NICE Inform Lite Server lic	500.00	\$500.00
ESNT-1CH-UPG-20	lic	24	1 Audio Recording license, inc Inform Essential application support, replacing CLS 8.9/9.0/MirraIV	340.00	\$8,160.00
ESNT-RCON-ICC	sw	1	NICE Inform Essential Reconstruction concurrent user license	1,000.00	\$1,000.00
MS1MS1MS9S-10FT	hw	2	25 Pair Amphenol Cable, 10 ft	\$140.00	\$280.00
<b>Upgrade Sub Total:</b>					<b>\$18,965.00</b>

INTRADO-TEXT-1CH	sw	3	Single text recording endpoint (position), including Intrado integration & Inform app support	50.00	\$150.00
ES-INFRM-TEXT-IDS	sw	1	Text Recording Service, including integration to Inform Server	1,500.00	\$1,500.00
PS-SYS-LDMT	sw	1	Legacy Media Migration Tool	1,500.00	\$1,500.00
ESNT-ANIALI-1CH	sw	3	ANI-ALI Annotator license for 1 Inform Essential channel	25.00	\$75.00
EOS-4UKIT	hw	1	Kit - 4U Rackmount	\$150.00	\$150.00
MAINT-NICE-IND-ST		1	NICE Software Assurance First Year	\$1,024.00	\$1,024.00
RCON-REDACT-ICC	lic	1	Redaction capability within NICE Inform Essential/Lite Reconstruction application, per concurrent user license.	500.00	\$500.00
RM-ESNT-VER-ICC	lic	3	NICE Inform Essential Verify concurrent user license	300.00	\$900.00
<b>Ancillaries Sub Total:</b>					<b>\$4,399.00</b>

<b>Professional Services</b>					
Install	svc	1	Installation and Training	\$3,154.00	\$2,854.00
APP	svc	1	Extended One Year Warranty	1,130.00	\$1,130.00
<b>Services Sub Total:</b>					<b>\$3,984.00</b>
				<b>Shipping:</b>	\$150.00
<b>QUOTATION TOTAL:</b>					<b>\$27,648.00</b>

By signing below, you are authorizing purchase for materials and/or services quoted herein. Your signature authorizes Edge One Solutions, Inc. to proceed with your order and invoice accordingly. Please provide a copy of your company's purchase order along with the signed quotation and fax to 919-554-9257 or email to [twilliams@edge1solutions.com](mailto:twilliams@edge1solutions.com).

**Terms:**

Payment Terms: Upon Installation

Delivery: CFR - Factory

Validity of quotation: 30 Days

Estimated Delivery: 4 Weeks ARO

(Delivery is contingent upon stock availability at the time of order placement)

Approved by:

Approved Date:

Purchase Order Number

Authorized Provider of NICE® / Dictaphone®

Email: [twilliams@edge1solutions.com](mailto:twilliams@edge1solutions.com)



CenturyLink

Customer Legal Name: Washington County 911

Customer Billing Name:

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Quote-Build #: -Oracle

Valid Until July 3, 2016

Description of Work to be Performed:

this quote is for new furniture at the new PSAP site in Roper

Equipment pricing shown is based upon direct sale accompanied by new Centurion Maintenance contract on same.

Part Number	Description	Quantity	Unit Price	Extended Price
PC4829S1	48" Core, Single Sided	16	\$ 506.00	\$ 8,096.00
-	Steel: N/A	-	-	-
PDW4816S	48X16 Display Wall Ss	8	\$ 672.87	\$ 5,382.96
-	Steel: N/A	-	-	-
PMW4816S	48X16 Modular Wall Ss	8	\$ 417.65	\$ 3,341.20
-	Steel: N/A	-	-	-
PFWP4816	48X16 Acoustical Pnl	8	\$ 253.44	\$ 2,027.52
-	Steel: N/A - Fabric: N/A	-	-	-
PAPG2416	24" Access Panel For Villa Power Module	4	\$ 99.95	\$ 399.80
-	Steel: N/A	-	-	-
TOAVILC6	Villa C-D-B-72	4	\$ 110.66	\$ 442.64
PDWT48S1	48" Wide Wall Top Trim, Ss	16	\$ 124.05	\$ 1,984.80
-	Steel: N/A	-	-	-
PET116P1	90D Conn Ergo Tier 1 (16)	4	\$ 336.44	\$ 1,345.76
-	Steel: N/A	-	-	-
PVET16T1	Vertical End Trim T1 (16)	4	\$ 65.15	\$ 260.60
-	Steel: N/A	-	-	-
G110C4848-AZ	48X48 Dual Lift, 90 Core Only, For E-Zone	4	\$ 5,113.48	\$ 20,453.92
-	Steel: N/A - Laminate: N/A	-	-	-
G623B4848-T	Fab Core Skin Kit 48X48-90	4	\$ 744.27	\$ 2,977.08
-	Steel: N/A - Fabric: N/A	-	-	-
G911U-A01	Dpf1C Control Pad	4	\$ 82.10	\$ 328.40
PEPECU1	Ezone - Personal Comfort System	4	\$ 2,668.29	\$ 10,673.16
TOALTLED	Articulating Led Task Lamp	4	\$ 265.94	\$ 1,063.76
TOALTLEDCORD	Toaltled Dimming Cord Rj9 To Rj9, 25 Feet	4	\$ 10.71	\$ 42.84
TOALTSB	Articulating Light Slatwall Bracket	4	\$ 26.77	\$ 107.08
PBW4830D	48X30 Bullnose Worksurface	4	\$ 336.44	\$ 1,345.76
-	Steel: N/A - Laminate: N/A	-	-	-
PBT4830L	48X30 Bullnose Trans Left	2	\$ 336.44	\$ 672.88
-	Steel: N/A - Laminate: N/A	-	-	-
PBT4830R	48X30 Bullnose Trans Right	2	\$ 336.44	\$ 672.88
-	Steel: N/A - Laminate: N/A	-	-	-
PCPL2428	Cpu Docker Left	4	\$ 785.32	\$ 3,141.28
-	Steel: N/A	-	-	-
C845	Box/Box/File Mobile Pedestal	4	\$ 349.82	\$ 1,399.28
-	Steel: N/A	-	-	-
PUPRSRH1	30"D Cantilever Top Support Rh	4	\$ 65.15	\$ 260.60
-	Steel: N/A	-	-	-
TOACTA1014B	14" Extension Pole	8	\$ 43.73	\$ 349.84
TOACGMA225B	Pole Mount, Articulating Dual Swing Arm And 34" Array	4	\$ 553.29	\$ 2,213.16
ARRAYHANDLE	Fpd Array Handle	4	\$ 110.66	\$ 442.64
-	Steel: Black	-	-	-
KONWL9D	Fpd Arm-Sw Hght Adj Single Fpd Black, Centris Head	4	\$ 282.90	\$ 1,131.60
PRR36WS	36" Rotating Resource W/Ws	1	\$ 1,954.37	\$ 1,954.37
-	Steel: N/A - Laminate: N/A	-	-	-
PCSK2200	22" Wide Core Skin	12	\$ 106.20	\$ 1,274.40
-	Steel: N/A	-	-	-
NPTEAM	Neutral Posture Teaming: #Gs-27F-0014Y	4	\$ 803.16	\$ 3,212.64
-	END 5648	-	-	-
-	-	-	-	-
000-000	Transportation	1	\$ 2,531.65	\$ 2,531.65
000-000	Installation	1	\$ 10,361.95	\$ 10,361.95

Parts .....	\$ 89,892.45
Miscellaneous .....	\$ -
Shipping .....	\$ -
Parts Subtotal .....	\$ 89,892.45
Labor .....	\$ -
Vendor Support (See Vsupport Tab for Details) .....	\$ -
TOTAL PRICE .....	\$ 89,892.45

All Products listed on this Quote are governed by the Standard Terms and Conditions for Communications Services and the Equipment Sales Product Annex, both posted to [http://about.centurylink.com/legal/rates\\_conditions.html](http://about.centurylink.com/legal/rates_conditions.html)



## CenturyLink

Customer Legal Name: E911 Washington County  
Customer Billing Name: E911 Washington County  
PO BOX 1007  
PLYMOUTH  
NC , 27962-1007  
Quote-Build #: 16-007703-NIBS

Valid Until July 14, 2016

Description of Work  
to be Performed:


Equipment pricing shown is based upon direct sale accompanied by new Centurion Maintenance contract on same.

See Vendor Support Tab for  
Additional Pricing

Part Number	Description	Quantity	Unit Price	Extended Price
-	-	-	\$ -	\$ -
-	Washington County Backup Center	-	\$ -	\$ -
-	-	-	\$ -	\$ -
-	VIPER	-	\$ -	\$ -
912817/BB	7 Foot Cabinet Prebuilt Building Block	1	\$ 25,443.04	\$ 25,443.04
912890/BB	Media Kit Prebuilt Building Block	1	\$ 78.48	\$ 78.48
912800	VIPER Gateway Shelf	3	\$ 776.96	\$ 2,330.88
912801	CAMA Interface Module (CIM)	2	\$ 2,111.14	\$ 4,222.28
912811	Application Server License	4	\$ 780.89	\$ 3,123.56
912812	PBX Access License	3	\$ 506.20	\$ 1,518.60
912814	Admin Interface Module (AIM)	1	\$ 1,098.73	\$ 1,098.73
C10036	Power Cord Cable with A/C twist lock connector	2	\$ 189.87	\$ 379.74
912716/24	Cisco C2960X-24TS-L 24 port switch (without stacking module)	2	\$ 2,784.81	\$ 5,569.62
-	A9-1-1 Connect	-	\$ -	\$ -
911509	A9-1-1 Call Handling Accessories	3	\$ 415.95	\$ 1,247.85
911553	A9C HDT (Headset I/F) Module	3	\$ 415.95	\$ 1,247.85
911554	A9C MTI (Misc Tel I/F) Module	3	\$ 608.23	\$ 1,824.69
911555	A9C TPR (Third-Party Radio I/F) Module	3	\$ 686.71	\$ 2,060.13
911510-1	A9C Bundle - Dual Core	3	\$ 2,746.84	\$ 8,240.52
914121/1	IWS Workstation - Software and Configuration	3	\$ 345.57	\$ 1,036.71
-	Power 911	-	\$ -	\$ -
913100	Power 911 Client Access License (CAL)	3	\$ 7,844.18	\$ 23,532.54
913202	Power 911 Server Access License	3	\$ 1,565.70	\$ 4,697.10
-	IWS Workstations	-	\$ -	\$ -
914600/3	IWS External Programmable Keypad - 24 Buttons	3	\$ 170.89	\$ 512.67
-	Power 911 Hardware	-	\$ -	\$ -
914960	IWS Server RACK Bundle - Type A	1	\$ 6,854.43	\$ 6,854.43
-	Common Hardware	-	\$ -	\$ -
914956	1U Keyboard/LCD/Trackball/8-Port KVM	1	\$ 2,278.48	\$ 2,278.48
P10114/R	Backup Disk Solution for Windows Server (Rack-Mount)	1	\$ 4,303.80	\$ 4,303.80
-	Antivirus	-	\$ -	\$ -
914143	Symantec EndPoint Protection Manager (EPM) - 1 year	8	\$ 79.75	\$ 638.00
-	Peripheral Hardware	-	\$ -	\$ -
912645	ACDR & Maintenance Printers	1	\$ 1,012.66	\$ 1,012.66
914514	Color Laser Printer	1	\$ 1,345.30	\$ 1,345.30
-	Network Equipment	-	\$ -	\$ -
912810/E	Quad Ethernet Switch WIC	2	\$ 759.49	\$ 1,518.98
912810/R	1921 Integrated Services Router	2	\$ 1,392.41	\$ 2,784.82
-	Staging	-	\$ -	\$ -
950852	Front Room Equipment Staging - Per Position	3	\$ 316.46	\$ 949.38
950853	Back Room Equipment Staging - Per Cabinet	1	\$ 2,215.19	\$ 2,215.19
-	Installation	-	\$ -	\$ -
950104	Intrado Professional Services (per Day)	5	\$ 1,898.73	\$ 9,493.65
960575	Living Expense per Day per Person	7	\$ 253.16	\$ 1,772.12
960580	Travel Fee per Person	1	\$ 1,582.28	\$ 1,582.28
-	System Architect	-	\$ -	\$ -
950516	Network Provisioning Services per day	2	\$ 1,898.73	\$ 3,797.46
-	Post-Cutover Services	-	\$ -	\$ -
950500	Post-Cutover Services	1	\$ 1,898.73	\$ 1,898.73
960575	Living Expense per Day per Person	3	\$ 253.16	\$ 759.48
960580	Travel Fee per Person	1	\$ 1,582.28	\$ 1,582.28
P10087	CCS Training	1	\$ 1,898.73	\$ 1,898.73
960575	Living Expense per Day per Person	3	\$ 253.16	\$ 759.48
960580	Travel Fee per Person	1	\$ 1,582.28	\$ 1,582.28
-	Project Management Services	-	\$ -	\$ -
950510	Project Management Services	1	\$ 2,956.51	\$ 2,956.51
-	DISCOUNT	-	\$ -	\$ -
DISCOUNT SYST STIMULUS	Discount System Stimulus	1	\$ 14,000.00	\$ 14,000.00
000-000	Miscellaneous Cables	1	\$ 949.37	\$ 949.37
P10097	23in Touchscreen Monitors	3	\$ 531.65	\$ 1,594.95

Parts .....	\$ 156,693.35
Miscellaneous .....	\$ -
Shipping .....	\$ 2,541.79
Parts Subtotal .....	\$ 159,235.14
Labor .....	\$ 11,845.00
Vendor Support (See Vsupport Tab for Details) .....	\$ 22,800.00
TOTAL PRICE .....	\$ 193,880.14

All Products listed on this Quote are governed by the Standard Terms and Conditions for Communications Services and the Equipment Sales Product Annex, both posted to [http://about.centurylink.com/legal/rates\\_conditions.html](http://about.centurylink.com/legal/rates_conditions.html)

**BUDGET**

Four Position MCC5500 Motorola Console w/ training, and Netclock	\$219,296.00
Four Position CAD System, Call Works w/ training	\$105,598.00
Command and Control - Displays w/projectors and switcher	\$10,000.00
Long Haul Microwave Links	\$116,576.00
Generator	\$38,500.00
UPS System (installation included)	\$25,000.00
Telephone System and Viper Installation and Training	\$193,880.00
Audio/Visual	\$12,000.00
Closed Circuit TV (security)	\$20,555.00
Server/Reccorder	\$27,248.00
EMD Software with Licensing Renewal Service and Support	\$9,545.00
Furniture	\$89,892.00
Software/Interface/Workstations/Networks	\$54,736.00
Southern Software	\$55,679.00
Interior 911 Grounding	\$1,281.00
Refresh Consoles	\$38,311.00
Construction Cost	\$360,000.00
<b>Total Budget</b>	<b>\$1,378,097.00</b>

# North Carolina 911 Board Grant Application

## General Information

**Project Title**

Wilson County Tower Site Security

**Grant Fiscal Year - 2017**

**Project Director**

Brenda Womble

**Project Contact**

Brenda Womble

**Project Contact Title**

Director

**Address**

1817 Glendale Dr SW

Wilson, NC 27893

**Phone**

252-237-8300

**Email**

bwomble@wilson-co.com

*Three types of grants are available, as described below. In the box following these descriptions, please select the Grant Type which most appropriately fits your request.*

- **Consolidation** - A consolidation project involves combining one or more PSAPs with a primary PSAP with an integrated management structure that serves the same populations and jurisdictions previously served by offering grant funding for both PSAP costs authorized under G.S. 143B-1406(e) and costs not authorized under G.S. 143B-1406(e) to include construction costs.
- **Individual PSAP Enhancement/Replacement** - the relocation costs of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.
- **Regional Initiative Enhancement/Replacement** - Regional initiatives are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such initiatives comprise projects involving two or more primary PSAPs or a primary PSAP with approved secondary PSAPs. Costs of relocation of primary PSAPs, or capital expenditures that enhance the 911 system, including costs not authorized under G.S. 143B-1406(e) and construction costs.

**Grant Type**   *Individual PSAP Enhancement/Replacement*

**PSAP Name**   *Wilson County Emergency Communications*

- 1.   *Has the Revenue/Expenditure Report for FY15 been completed and approved by the NC 911 Board Fiscal staff for the applicant PSAP?***

YES

- 2.   *Has the applicant PSAP submitted a plan and secured the means for 911 call-taking in the event 911 calls cannot be received and processed in the primary PSAP (backup plan)?***

YES

- 3.   *If the answer to #2 above is yes, does the PSAP have the means to implement the plan before 7/1/16?***

YES

- 4.   *If plan implementation will not occur before July 1, 2016, has an extension been requested?***

[Select]

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# Project Description

***Required for all grant types, this should be a thorough, concise, and complete description of the proposed project.***

## **5. Please outline project goals and objectives.**

The project goal is to enhance the current lighting system for the Communications Tower and to provide security for the Tower itself as well as the immediate perimeter. Our two objectives are to replace the existing lighting system with a LED lighting system which will improve visibility of the tower and greatly reduce recurring maintenance costs associated with the old system as well as to make tremendous improvements to site security with security fencing and an alarm system that will include power, intrusion and temperature inside the building itself.

## **6. Please provide an implementation strategy and work plan, including a timeline.**

Once the grant was awarded, we would follow the guidelines for placing the orders with the vendors. The vendors have a time line of approximately 30 days to acquire the materials with a 3-4 week start time and a 30-60 day completion time after the project begins. While these are separate projects at the same location they will be able to be performed in conjunction with each other.

## **7. Please identify the interface or compatibility between existing equipment and/or software and that which you intend to purchase.**

There are no interface or compatibility issues to consider for this project as this will be all new installations.

## Statement of Need

***Required for all grant types, this statement should reference the relationship of the grant project to NCGS §143b-1407(b) and the current funding priorities established by the Grant Policy and Procedures and include evidence of any financial need.***

**8. Please indicate how your PSAP or group of PSAPs meets the statutory criterion of serving a rural or high cost area.**

In accordance with NCGS 53a-37(5), Wilson County falls within the criteria of being a rural area in that the largest city, Wilson, had a 2014 estimated population of 49,395. This is well below 1% of North Carolina's 2014 estimated population of 9,944,000.

**9. Please identify funding priorities, their impact on operational services, and consequences of not receiving funding.**

While we consider this project a high priority for the goals that we have the County has not funded them in previous budget requests. There is no direct impact on operational services however the potential exists for detrimental impacts should the current lighting system fail and an aircraft were to crash into it. As for the security of the tower and guide wires, there is minimal security in place at this time with only one locked gate at the main entrance. We have frequent trespassers to the immediate area due to there being a pond on the same property and we also have documented occasions of vandalism to the electrical system that feeds the electronics (radios and comparators) inside the tower as well as vandalism to the building itself. Should we not receive the funding for this project we will continue to perform yearly checks and replace bulbs on the tower itself and also continue to be vulnerable to trespassers, acts of vandalism and the potential for debilitating destruction from a person or persons attempting to disable the County and City's radio communication abilities.

**10. Please provide a copy of your PSAP's long-term or strategic technology plan and identify how the project fits within it.**

Our PSAP long-term plan does not include tower updates or security at this time.

**11. Please identify the likelihood of completing the project utilizing your 911 fund balance and the percentage of grant funding being requested in relation to total project costs.**

The project could not and would not be completed in its entirety with the absence of this grant as this is not 911 fund approved. The general budget for the 911 Center is funded by both the County and the City. Both budgets are currently experiencing hardships due to decreases in the property values as a result of the recent re-evaluation project.

# ***Regional Initiative Enhancement/Replacement Project***

***Required for all Regional Initiative Enhancement/Replacement project types.***

***Regional initiative enhancement/replacement projects are regional approaches which provide for shared use of the components that support E-911, such as equipment, resources, and/or co-location of technology. Such projects may involve two or more primary PSAPs.***

## **12. What is the relationship of participating PSAPs to the initiative? Provide MOUs between PSAPs identifying each participant PSAP's responsibilities to the project.**

Click or tap here to enter text.

## **13. Identify intended collaborative efforts between participating PSAPs.**

Click or tap here to enter text.

## **14. Identify how resource sharing will take place.**

The City of Wilson operates on an EFJ radio system that is utilized by Law Enforcement and the Fire/Rescue Departments that could be impacted. The County VHF radio equipment and backend equipment for connectivity to the state VIPER system is also housed at the tower. The VIPER system is utilized by the County EMS system and the City also uses it as a back up radio system. This tower security will ultimately provide quicker access for authorized radio and other maintenance personnel.

## **15. Indicate how the initiative impacts the operational or strategic plans of the participating agencies.**

Click or tap here to enter text.

***NOTE: The following section on “Consolidation Project Plan” is ONLY required if your type of grant is a “Consolidation”. If your project IS NOT a Consolidation, proceed to question # 23 to complete the grant application.***

**16. Indicate how a consolidation would take place and improve service**

Click or tap here to enter text.

**17. Indicate how the consolidated PSAP should be organized and staffed**

Click or tap here to enter text.

**18. Indicate what services the consolidated PSAP should perform**

Click or tap here to enter text.

**19. Indicate how consolidated PSAP policies should be made and changed**

Click or tap here to enter text.

**20. Indicate how the consolidated PSAP should be funded exclusive of grant funding**

Click or tap here to enter text.

**21. Indicate what changes or improvements should be made to inter-communications among the local governments participating in the consolidation in order to better support operations.**

Click or tap here to enter text.

**22. Discuss sustainability of the consolidation project during the proposed term of the project, and for the foreseeable future.**

Click or tap here to enter text.

## FINANCIAL DATA

**23. Current 911 Fund Balance**

498,368.13

**24. Amount Requested**

60,231.50

**25. Total Project Cost**

60,231.50

# Budget and Budget Narrative

***A budget and budget narrative must be supplied for all types of projects, as well as a copy of the applicant agency's approved FY 2016 PSAP budget.***

## **26. List planned expenditures**

19,568 Fencing, gates and electric gate operator installed  
29,987.50 LED lighting system with cable and installation  
9,676 Equipment for card access, alarm monitoring and notification system  
1,000 Power hookup for the electric gate

## **27. Provide a budget narrative that briefly explains the reason for each requested budget item.**

19,568 includes chain link fence with barb wire and gates around the communications tower, tower building and guide wire bases to provide a more secure facility.  
29,887.50 includes a LED lighting system for the communications tower to replace the current system that has aged out.  
9,676 for equipment for card access to work with the fence gates and an alarm monitoring and notification system for the tower building and tower itself.  
1,000 to run power to the electric gate

## **28. State how you will follow applicable procurement law, rules, and policies.**

Wilson County will follow our established local guidelines for purchasing and recording capital outlay purchases which will also meet or exceed North Carolina general statutes requirements.

## **29. If the project will have ongoing expenses, such as monthly recurring charges, describe plans and specific sources for future/long-term funding and demonstrate how the project will be sustained in the future without additional 911 Grant Program funding.**

Not applicable. The only recurring charges will be periodic tower inspections and limited bulb replacements with the proposed LED system.

## **Evaluation**

***All applications must include evaluation information. The final report shall include an evaluation demonstrating that the equipment or services funded by the grant have been purchased, installed/implemented, and are performing as expected.***

**30. Explain how your evaluation will measure the achievement of the goals and objectives identified in the Project Description with a timeline for meeting short, intermediate, and long term goals.**

We expect that the project will be completed within 6 months of receiving the grant which includes the purchase and installation of both the fencing and the lighting/security system.

**31. Describe how evaluations will be conducted, including performance parameters which must be met in order to meet acceptance criteria.**

The project will be coordinated and reviewed by the Director or her designee. There will be vendor meetings and communication to ensure that installation is progressing on a weekly basis at the minimum.

**32. Identify how data will be collected and presented**

The progress will be forwarded to the board at least monthly. There is no data collection associated with this project.

**PROPOSAL**  
**MOYE FENCE COMPANY, INC.**  
**5728 SPEIGHTS BRIDGE ROAD**  
**STANTONSBURG, NC 27883**

FAX: 252-238-3764

Toll Free: 1-800-846-8880

Telephone: 252-238-3766

PROPOSAL SUBMITTED TO

**County of Wilson**

PHONE

**252-237-8300**

DATE

**6-1-16**

STREET

JOB NAME

[mccone@wilson-co.com](mailto:mccone@wilson-co.com)

CITY, STATE, ZIP

JOB LOCATION

**Tower Site 2764 Commerce Rd. Wilson, NC**

**We hereby submit specification and estimates for:**

Labor and material to install approximately 350' of 6' tall chain link fence with 3 strands of barb wire, 1 - 18' double swing gate around tower and buildings. Using the following material: 9 gauge wire, 1 5/8" ss-20 top rail, 2" schedule 40 line posts, 2 1/2" schedule 40 corner posts, 4" schedule 40 gate posts.

**Price - \$4,992.00**

**Options:**

**1) Change double swing gate to cantilever roll gate. Add - \$ 900.00**

**2) Add electric gate operator with 5 remote controls, 1 key pad, & 1 photo eye. Customer to supply power to operator. Add - \$4,500.00**

**3) Install 6' tall chain link fence around 6 - 8' x 24' anchor units with 6 - 5' walk gates. Add - \$9,176.00**

**WE PROPOSE** hereby to furnish material and labor - complete in accordance with above specifications for the sum of:

**As quoted**-----dollars (\$ **As quoted** ).

**Payment to be made as follows:**

**Balance due upon completion.**

*(1 1/2% Monthly Finance Charge or \$3.00 Minimum on Past Due Balances. \$36.00 Fee on all Returned Checks.)*

All material is guaranteed to be as specified. All work to be completed in a workmanlike manner according to standard practices. Any alteration or deviation from above specifications involving extra costs will be executed only upon written orders, and will become an extra charge over and above the estimate. All agreements contingent upon strikes, accidents or delays beyond our control. Owner to carry fire, tornado and other necessary insurance. Our workers are fully covered by Workman's Compensation insurance.

Authorized Signature

Tammy C. Moye

Note: This proposal may be withdrawn by us if not accepted within  
10 days.

**Acceptance of Proposal** - The above prices, specifications and conditions are satisfactory and are hereby accepted. You are authorized to do the work as specified. Upon signing contract, it is the customer's responsibility to call (NC U-LOCO) 1-800-632-4949 to identify all underground public utility lines. Further, it is my responsibility to identify all private lines such as water, cable TV, sewer, etc. This will prevent needless repair bills that will be my responsibility. I understand it will be my responsibility if I choose to proceed with fence in location where underground utilities are located. I should have fence lines cleared, graded and property stakes located when crew arrives. Moye Fence Company is not responsible for surveying my property or the establishment of the fence location.

**Payment will be made as outlined above.**

**Moye Fence Company has the right to remove fence if not paid in full by due date without refund.**

Signature \_\_\_\_\_

Date of Acceptance: \_\_\_\_\_

Signature \_\_\_\_\_



## SALES QUOTE

Signal Engineering Co.  
dba  
**SECO Security Corp**  
DCJS License# 11-2013  
503 Industry Drive  
Hampton, VA 23661  
Phone: 757-826-1518  
FAX: 757-826-7213

Page: 1  
Sales Quote Number: SSQU15-00233  
Sales Quote Date: 06/06/16

Sell To: Wilson County Emergency Communica  
Glen Parnell  
1817 Glendale Drive  
Wilson, NC

Ship To: Wilson County Emergency Communica  
Glen Parnell  
1817 Glendale Drive  
Wilson, NC

Ship Via

Customer ID CASH003

Terms Cash on delivery

SalesPerson Timmy Gerrell

Item No.	Description	Unit	Quantity	Unit Price	Total Price
	Equipment for card access and Monitoring		1	6,336.00	6,336.00
MISC	Misc Materials	Each	1	250.00	250.00
LABOR	Hourly Rate T&M	Hourly	1	3,040.00	3,040.00
SHIP NC	Shipping NC	Each	1	50.00	50.00

Amount Subject to  
Sales Tax  
9,676.00

Amount Exempt  
from Sales Tax  
0.00

Prices may or may not include taxes. If you are tax exempt, please forward a tax exempt certificate.

All new accounts may be required to provide 20% down payment at time of order.

TERMS: 1% / 15 Net 30 (with approved application)

Cancelled orders are subject to 25% restocking charge.

Quotes are valid for 60 days from date of quote unless specified differently.

Subtotal: 9,676.00  
Invoice Discount: 0.00  
Sales Tax: 653.13  
Total: 10,329.13

Signal Engineering Corp. is an EEO Affirmative Action Employer and abides by the language referenced below.

This contractor and all covered subcontractors shall abide by the requirements of 41 CFR Section 60-1.4(a)(7), 60-250.4 as amended (41 CFR 61-300) and 60-741.4, if applicable, 29 C.F.R. Part 471, Appendix A to Subpart A, 60-300.5(a) and 60-741.5(a). These regulations prohibit discrimination against qualified individuals based on their status as protected veterans or individuals with disabilities, and prohibit discrimination against all individuals based on their race, color, religion, sex, or national origin. Moreover, these regulations require that covered prime contractors and subcontractors take affirmative action to employ and advance in employment qualified protected veterans, qualified individuals with disabilities and all individuals without regard to race, color, religion, sex, or national origin.

# Price

Communications Inc.

New Bern, N.C.

252-670-0135

Service  
inspections

Complete Tower Service

installation  
maintenance

**PROPOSAL FOR:**

Wilson County Communications  
1817 Glendale Drive  
Wilson, N.C. 27893

**PRICE COMMUNICATIONS, INC**

1881 Acorn Drive  
New Bern, NC 28562  
(252) 670- 0135

M/F 480 ft tower

Proposal # 224165

Item	Quan	Model Number		UNIT PRICE	TOTAL
1	1	LK1E2/3DB2AV Standard Dual strobe System	: TWR P/N-LK1E2/3DB2AV FAA E1 120VAC Medium Intensity Dual L864(Red Strobe)/L865(White Strobe) lighting system including (3) Dual Strobe Beacon, Controller with photocell, RFI modules, and form-c dry contact alarm points, cabling for a 480-ft tower with 50-ft of extra cable and all misc. installation hardware. Includes 2 year manufacturers limited warranty		\$18,900.70
2	1	Installation labor	Replace existing incandescent lighting system with above		\$6,100.00
3	1	LK1E23L550AV LED System	TWR P/N LK1E23L550AV FAA E2 120VAC Medium Intensity Dual L864 (Red LED)/L865 (White LED) lighting system including, (3) Dual LED L550-864/865 Beacons with integral photocell, CIP300-TWR Alarmed controller with form-c dry contact alarm points, cabling for a 480-ft tower including 50-ft extra cable and all misc. installation hardware. Includes 5 year manufacturers warranty on all parts.		\$23,887.50
4	1	Installation labor	Replace existing incandescent lighting system with above		\$6,100.00
5	1	Installation Labor	Clean and repaint 480 ft tower, provide all materials		\$16,800.00
			No NC sales taxes have been included		

Terms: Net 30 days  
Telephone: 252-237-8300  
Fax:  
Contact: Mrs. Brenda Womble  
Other:  
P.O. #  
Date: 2-24-16  
Accepted By:

Total Equipment Cost  
Labor, Installation and Test  
Tax  
Total Purchase  
Frequency Coord./License  
Freight  
Less Down Payment  
Amount Due

**WILSON COUNTY  
2015 - 2016 Board Adopted Budget**

**Special Revenue Funds**

Account Number	Description	2014 Actual Amount	2015 Amended Budget	2016 Department Request	2016 Board Adopted
<b>Fund: 13 - EMERGENCY COMMUNICATIONS E911</b>					
<b>Revenues</b>					
<b>Department: 4314 - ENHANCED 911</b>					
32001	INSURANCE REIMBURSEMENTS	0.00	0.00	0.00	0.00
33157	NC 911 GRANT	700,000.00	0.00	0.00	0.00
34053	FEES	377,746.00	373,621.00	441,967.00	441,967.00
38004	MISCELLANEOUS REVENUE	0.00	0.00	0.00	0.00
38101	INTEREST ON INVESTMENTS	558.39	750.00	750.00	750.00
39000	FUND BALANCE APPROPRIATED	0.00	275,021.00	110,049.00	111,958.00
39901	GENERAL FUND CONTRIBUTION	0.00	0.00	0.00	0.00
<b>Department Total: 4314 - ENHANCED 911</b>		<b>\$1,078,304.39</b>	<b>\$649,392.00</b>	<b>\$552,766.00</b>	<b>\$554,675.00</b>
<b>Revenues Total</b>		<b>\$1,078,304.39</b>	<b>\$649,392.00</b>	<b>\$552,766.00</b>	<b>\$554,675.00</b>
<b>Expenditures</b>					
<b>Department: 4314 - ENHANCED 911</b>					
41210	SALARIES	52,575.84	90,275.00	57,147.00	57,147.00
41212	OTHER PAY (Other than Part-time)	4,541.41	10,415.00	8,957.00	8,957.00
41800	401-k RETIREMENT SUPPLEMENT	2,855.85	4,515.00	2,827.00	2,827.00
41805	DENTAL INSURANCE	60.00	120.00	60.00	60.00
41810	FICA	4,327.68	6,908.00	4,328.00	4,328.00
41820	RETIREMENT EXPENSE	4,038.18	6,383.00	4,055.00	4,055.00
41825	EMS TRAINING -FY2007 97.073	0.00	0.00	0.00	0.00
41830	HOSPITALIZATION EXPENSE	7,429.25	15,720.00	8,160.00	8,160.00
41900	PROFESSIONAL SERVICES	0.00	0.00	0.00	0.00
41990	CONTRACT LABOR	0.00	0.00	0.00	0.00
42320	SUPPLIES	0.00	3,000.00	3,000.00	3,000.00
43020	MISCELLANEOUS EXPENSE	0.00	0.00	0.00	0.00
43110	TRAVEL	0.00	1,000.00	1,000.00	1,000.00
43210	TELEPHONE SERVICE	0.00	0.00	0.00	0.00
43520	REPAIRS TO EQUIPMENT	1,375.26	5,000.00	5,000.00	5,000.00
43800	DATA PROCESSING SERV & EQUIP	8,477.16	30,000.00	40,000.00	40,000.00
43950	TRAINING	5,455.00	12,000.00	12,000.00	12,000.00
44400	CONTRACTS/ MAINTENANCE	76,361.92	99,983.00	97,865.00	97,865.00
44800	INDIRECT COST	0.00	0.00	0.00	0.00
44840	EDUCATIONAL SUPPLIES	0.00	0.00	0.00	0.00
44882	E911/DATA BASE PROVISION	189,840.78	194,775.00	195,055.00	195,055.00
44999	CONTROLLED EQUIP/F&F \$1,000 TO \$4,999	2,358.23	0.00	6,300.00	6,300.00
45000	CAPITAL OUTLAY \EQUIPMENT	397,787.00	169,298.00	102,621.00	102,621.00
46181	NC 911 GRANT	700,000.00	0.00	0.00	0.00
49090	ADDRESS UPGRADE	0.00	0.00	6,300.00	6,300.00
<b>Department Total: 4314 - ENHANCED 911</b>		<b>\$1,457,483.56</b>	<b>\$649,392.00</b>	<b>\$554,675.00</b>	<b>\$554,675.00</b>
<b>Expenditures Total</b>		<b>\$1,457,483.56</b>	<b>\$649,392.00</b>	<b>\$554,675.00</b>	<b>\$554,675.00</b>
<b>Fund Revenue Total: 13 - EMERGENCY COMMUNICATIONS E911</b>		<b>\$1,078,304.39</b>	<b>\$649,392.00</b>	<b>\$552,766.00</b>	<b>\$554,675.00</b>
<b>Fund Expenditure Total: 13 - EMERGENCY COMMUNICATIONS E911</b>		<b>\$1,457,483.56</b>	<b>\$649,392.00</b>	<b>\$554,675.00</b>	<b>\$554,675.00</b>
<b>Fund Net Total: 13 - EMERGENCY COMMUNICATIONS E911</b>		<b>(\$379,179.17)</b>	<b>\$0.00</b>	<b>(\$1,909.00)</b>	<b>\$0.00</b>

**WILSON COUNTY**  
**2015 - 2016 Board Adopted Budget**

**General Government Funds**

Account Number	Description	2014 Actual Amount	2015 Amended Budget	2016 Department Request	2016 Board Adopted
<b>Department: 4312 - EMERGENCY COMMUNICATIONS</b>					
<b>Sub Department: 4312 - ECC ADMIN</b>					
41210	SALARIES	121,423.50	123,935.00	127,216.00	127,216.00
41212	OTHER PAY (Other than Part-time)	2,832.00	3,738.00	4,380.00	4,380.00
41800	401-k RETIREMENT SUPPLEMENT	6,212.77	6,199.00	6,332.00	6,332.00
41805	DENTAL INSURANCE	120.00	120.00	120.00	120.00
41810	FICA	9,055.98	9,483.00	9,688.00	9,688.00
41820	RETIREMENT EXPENSE	8,784.84	8,763.00	9,079.00	9,079.00
41825	PROFESSIONAL DEVELOPMENT	0.00	0.00	0.00	0.00
41830	HOSPITALIZATION EXPENSE	14,858.50	15,708.00	16,322.00	16,322.00
41850	UNEMPLOYMENT COMPENSATION	0.00	0.00	0.00	0.00
42130	UNIFORM/ CLOTHING ALLOWANCE	1,532.70	2,500.00	2,500.00	2,500.00
42310	TRAINING PROGRAM	2,408.61	10,000.00	10,000.00	10,000.00
42330	DEPARTMENTAL SUPPLIES	4,656.16	5,000.00	5,000.00	5,000.00
43110	TRAVEL	4,896.54	12,000.00	10,000.00	10,000.00
43210	TELEPHONE SERVICE	3,470.34	3,600.00	4,260.00	4,260.00
43250	POSTAGE	278.56	300.00	300.00	300.00
43520	REPAIRS TO EQUIPMENT	9,887.67	10,000.00	10,000.00	10,000.00
43600	RADIO MAINTENANCE	2,105.89	1,926.00	10,000.00	10,000.00
43800	DATA PROCESSING SERV & EQUIP	2,265.33	3,000.00	3,000.00	3,000.00
44300	RENT ON EQUIPMENT	5,700.00	5,700.00	5,700.00	5,700.00
44400	CONTRACTS/ MAINTENANCE	111,801.37	123,464.00	120,562.00	120,562.00
44800	INDIRECT COST	54,840.00	58,669.00	58,669.00	58,669.00
44999	CONTROLLED EQUIP/F&F \$1,000 TO \$4,999	1,117.62	13,935.00	0.00	0.00
45000	CAPITAL OUTLAY \EQUIPMENT	0.00	78,372.00	78,711.00	78,711.00
<b>Sub Department Total: 4312 - ECC ADMIN</b>		<b>\$368,248.38</b>	<b>\$496,412.00</b>	<b>\$491,839.00</b>	<b>\$491,839.00</b>
<b>Sub Department: 4313 - TELECOMMUNICATORS</b>					
41210	SALARIES	1,099,496.51	1,215,597.00	1,307,426.00	1,307,426.00
41211	TEMPORARY/PART TIME SALARIES	7,749.01	16,148.00	16,500.00	16,500.00
41212	OTHER PAY (Other than Part-time)	201,459.82	251,995.00	236,574.00	236,574.00
41800	401-k RETIREMENT SUPPLEMENT	65,047.88	69,283.00	65,346.00	65,346.00
41805	DENTAL INSURANCE	1,495.00	1,860.00	1,980.00	1,980.00
41810	FICA	96,500.09	93,015.00	99,998.00	99,998.00
41820	RETIREMENT EXPENSE	91,977.58	99,412.00	93,700.00	93,700.00
41825	PROFESSIONAL DEVELOPMENT	0.00	0.00	0.00	0.00
41830	HOSPITALIZATION EXPENSE	205,523.68	243,660.00	269,279.00	269,279.00
44999	CONTROLLED EQUIP/F&F \$1,000 TO \$4,999	3,748.84	0.00	0.00	0.00
<b>Sub Department Total: 4313 - TELECOMMUNICATORS</b>		<b>\$1,772,998.41</b>	<b>\$1,990,970.00</b>	<b>\$2,090,803.00</b>	<b>\$2,090,803.00</b>
<b>Department Total: 4312 - EMERGENCY COMMUNICATIONS</b>		<b>\$2,141,246.79</b>	<b>\$2,487,382.00</b>	<b>\$2,582,642.00</b>	<b>\$2,582,642.00</b>

### **Peer Review Team Attributes**

1. The reviewers have to be a part of a PSAP Management team.
2. Potential reviewers must have letters from their management supporting them being out of the office and performing reviews.
3. The potential reviewer will complete an application that outlines the potential reviewer's abilities and strengths.
4. Reviewers will receive training from the 911 Board so reviewers will approach and execute the review process the same way.
5. Effective July 1, 2017, the reviewers will be selected from PSAPs that have completed a review of their PSAP in accordance with the compliance process.
6. Reviewers will be from a different region than the PSAP being reviewed to avoid favoritism. However, one person on a review team may be from the same region as the PSAP being reviewed because of differences in how PSAPs work on a regional basis.
7. Review teams should possess a diverse but balanced set of abilities and strengths.
8. After July 1, 2017, a new Reviewer will be paired with experienced reviewers.

### **How Reviewers Are Selected**

1. Reviewers are selected by the NC 911 Board upon recommendation by the Standards Committee