

Draft Environmental Assessment

**North Carolina Highway Patrol VIPER Communications
Tower – Roxboro (HP-1234)**

Roxboro, Person County, North Carolina

North Carolina Department of Public Safety

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FEMA

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Acronym List

ACHP -	Advisory Council on Historic Preservation
AGL -	Above Ground Level
APE -	Area of Potential Effects
A/C -	Air Conditioning
BMP -	Best Management Practices
CFR -	Code of Federal Regulations
CJIN -	Criminal Justice Information Network
dBA -	Decibels (Acoustic)
DHS -	Department of Homeland Security
EA -	Environmental Assessment
EPA -	Environmental Protection Agency
FAA -	Federal Aviation Administration
FCC -	Federal Communications Commission
FEMA -	Federal Emergency Management Agency
FERC -	Federal Energy Regulatory Commission
FIRM -	Flood Insurance Rate Map
FONSI -	Findings of No Significant Impact
FPPA -	Farmland Protection Policy Act
HAP -	Hazardous Air Pollutants
HP -	Highway Patrol
HSGP -	Homeland Security Grant Program
HVAC -	Heating, Ventilation, and Air Conditioning
kW -	Kilowatt
MPSCS -	Michigan Public Safety Communications System

NAD 83 -	North American Datum (1983)
NAVD 88 -	North American Vertical Datum (1988)
NEPA -	National Environmental Policy Act
NC -	North Carolina
NCDENR -	North Carolina Department of Environment and Natural Resources
NC SHPO -	North Carolina State Historic Preservation Office
NHO -	Native Hawaiian Organizations
NHPA -	National Historic Preservation Act
NO _x -	Nitrogen Oxide
NPA -	Nationwide Programmatic Agreement
NPDES -	National Pollutant Discharge Elimination System
NPS RTCA -	National Park Service Rivers, Trails and Conservation Assistance
NRHP -	National Register of Historic Places
OSHA -	Occupational Safety and Health Administration
PC -	Public Comment
PIN -	Parcel Identification Number
TCNS -	Tower Construction Notification System
TEP -	Tower Engineering Professionals, Inc.
THPO -	Tribal Historic Preservation Office
USDA -	United States Department of Agriculture
USFWS -	United States Fish and Wildlife Service
USGS -	United States Geological Survey
USPS -	United State Postal Service
VIPER -	Voice Interoperability Plan for Emergency Responders
VOC -	Volatile Organic Compound

1.0 INTRODUCTION

This Draft Environmental Assessment reviews expected environmental impacts associated with the proposed construction of the Roxboro Voice Interoperability Plan for Emergency Responders (VIPER) Communications Tower in the City of Roxboro, North Carolina. The Federal Emergency Management Agency (FEMA) may fund this project.

FEMA and others prepared this Draft EA in accordance with the National Environmental Policy Act (NEPA) of 1969, the President's Council on Environmental Quality regulations to implement NEPA, 40 Code of Federal Regulations (CFR) Parts 1500-1508, and FEMA's NEPA implementing regulations at 44 CFR Part 10. FEMA will use this EA's findings and related Public Comments to determine whether to prepare an Environmental Impact Statement (EIS) or a Finding of No Significant Impact (FONSI) for the proposed project.

The City of Roxboro applied for grant funds from the Homeland Security Grant Program (HSGP), administered by FEMA. HSGP is one of over 20 grant programs authorized by Congress and implemented to help strengthen the Nation against risks associated with potential terrorist attacks.

2.0 PURPOSE AND NEED

The Proposed Action's purpose is to meet current radio frequency coverage needs of the North Carolina Highway Patrol in Person County and surrounding areas while promoting interoperability of federal, state, and local government emergency services and first responders. According to the VIPER Report, dated December 2004; a VIPER communications network will provide federal, state, and local government entities the following benefits, which are currently unattainable using existing communications systems:

- Seamless voice communication for public safety personnel and first responders
- Seamless interagency communications for public safety personnel and first responders
- Unobstructed interagency communication of Federal, State, and Local law enforcement agencies
- Improved safety of public safety personnel and first responders
- Improved public safety services for the citizens of North Carolina

3.0 ALTERNATIVES CONSIDERED

3.1 NO ACTION ALTERNATIVE

Under the No Action alternative, nothing would be done to improve public safety communication in Person County, North Carolina and surrounding areas and between federal, State, and local public safety offices and personnel. Current emergency services radio system network requirements would operate less efficiently, which would limit emergency responses. Current communications systems operated by many North Carolina State agencies, and local government

agencies have multiple problems because of overcrowding of channels, outdated or unserviceable equipment, inadequate vendor support, unavailable replacement parts, and routine system failures. Routine communication system failures would require extensive funding to update existing equipment to meet federal mandates that require narrower bandwidths to conserve and more effectively use the existing frequency spectrum. Additionally, the existing communication systems used throughout Person County are incompatible between State and Local agencies and first responders, which hinders collaborative efforts and interagency operability. This slows emergency and law enforcement response times, and may increase risks to the general population and public safety first responders.

The No Action alternative serves as the baseline to assess the likely impacts of the other project alternatives. The No Action Alternative would not address the needs of public safety officials, including the North Carolina Highway Patrol, or the citizens of Person County.

3.2 PROPOSED ACTION

Under the Proposed Action, FEMA would fund construction of a VIPER Communications Tower in the Town of Roxboro Person County, North Carolina. This proposed 280-foot tall communications tower and its strategically located site significantly expands communications coverage radius for Person County and parts of surrounding counties to provide more reliable interoperable communications for public safety first responders in these areas.

The 280-ft tall, self-supporting communications tower would be surrounded by an irregular shaped security fenced tower compound (27' x 40' x 8' x 40' x 27' x 48'). The fenced compound would include: an equipment shelter and a stand-alone 40 kW diesel emergency generator on a 5' 6" x 9' 6" concrete foundation pad (Figure 3).

3.3 ALTERNATIVES CONSIDERED AND DISMISSED

Three other action alternatives were considered and dismissed. The Criminal Justice Information Network (CJIN) Governing Board evaluated these alternatives, as well as the Proposed Action, to determine which alternative would most effectively meet State and local governments' radio communication coverage requirements.

The first action alternative considered and dismissed was a partnership communications system similar to that used by the state of South Carolina. South Carolina's current system operates on the same system as the VIPER system (Motorola SmartZone 4.1). However, Motorola, Inc. owns and maintains South Carolina's system and associated equipment. Due to the privatization of South Carolina's system and the amount of funding needed to maintain and expand the existing system, Motorola, Inc. required user fees of \$75 per radio. Due to high user fees, many local government entities in South Carolina reportedly do not use the system. Therefore, the CJIN Governing Board dismissed this alternative from further consideration for the Roxboro project

The second alternative considered and dismissed was a commercially based alternative communications system formerly offered by Sprint/Nextel. This system provided users with a

commercial handset or radio/phone combination that used a public commercial radio system. The CJIN Governing Board dismissed this alternative from further consideration because it did not provide a viable and efficient statewide communications system.

The third alternative considered and dismissed was a satellite based communications system. Satellite based systems are beneficial because they not susceptible to most dangers on or near the earth’s surface. However, they have many drawbacks, including limited operation inside buildings or in densely vegetated areas, lengthy delays associated with long signal travel distances, and routine satellite orbit re-alignments and adjustments. The CJIN Governing Board dismissed this alternative from further consideration because the negatives outweighed the positives.

4.0 AFFECTED ENVIRONMENT AND POTENTIAL IMPACTS

Person County is located in north-central North Carolina, covers about 392 square miles, and the City of Roxboro is the county seat. Person County is north of Durham County, with the City of Durham, and west of Caswell County, with the Town of Yanceyville. In 2010, Person County’s population was 39,464; Roxboro’s population was 8,362; Yanceyville’s population was 2,040 (U.S. Census Bureau, 2010).

The City of Roxboro is near the center of Person County, and about 10 miles south of the Virginia border. The proposed Roxboro Tower site is located at N 36° 23’ 0.256” Latitude and W 79° 00’ 3.527” Longitude (NAD83) at an elevation of 747.1feet AMSL (NAVD 88), as shown on the USGS Olive Hill, NC 7.5 Minute Topographic Map (Figure 2). The project site is also shown on a Google Earth aerial photograph (Figure 4).

The Proposed Action project site is a 12-acre parcel that is mostly covered by early ecological succession forest lands and mature pine/hardwood forest. The parent property is identified by the Person County Tax Assessor’s Office as PIN Number 0905-05-081178.000. The property is reportedly owned by Person County. The proposed access easement will proceed north through undeveloped forested land for approximately 320feet, before turning northeast and continuing an additional 180feet, until reaching the proposed tower site. Based on information gathered during an onsite investigation, the project site’s vegetation is mostly early successional vegetation, including Loblolly pine (*Pinus taeda*), Eastern Red Cedar (*Juniperus virginiana*), Sourwood (*Oxydendrum arboretum*), Red Oak (*Quercus rubra*), White Oak (*Quercus alba*), and Red Maple (*Acer rubrum*). According to historical aerial photographs, a part of the parent property was cleared of timber before February 2006.

Table 1: Summary of Impacts				
Affected Environment/ Resource	No Impact	No Significant Impact	Significant Impact	Mitigation/Best Management Practices (BMPs)/Other Information
Geology		X		None.
Soils		X		Minor soils impacts from construction. Required soil

				erosion reduction BMPs would be used. Details in this table's Water Quality section.
Air Quality		X		Dust emissions would be reduced by decreasing vehicle speed and wetting exposed soils. Fuel-burning equipment running times would be minimized and engines would be properly maintained
Wild and Scenic Rivers	X			No wild or scenic rivers in Person County.
Water Quality		X		Soil erosion reduction BMPs will be used, including among others: silt fences, wetting bare soil, and cover with wheat straw during and after construction; and vegetating bare soil after construction.
Wetlands and Sensitive Vegetation	X			None.
Floodplains	X			None.
Coastal Resources	X			None.
Threatened and Endangered Species		X		None. There are known occurrences of one aquatic species of mussel located within Person County. The nearest surface water feature the project site drains to is about 1,700 feet southwest of the property. Therefore, no significant impact is anticipated.
Migratory Birds		X		None. Tower lighting in accordance with FAA regulations. Tower will be less than 500 feet (152 meters) AGL and will not be located near any known rookeries, nesting sites, and/or migratory bird flyways.
Wildlife and Fish		X		Minor impact on wildlife and fish from minimal disturbance.
Vegetation		X		No notable impact on any vegetation.
Historic Properties		X		According to correspondence with NC SHPO, the Proposed Action will have no effect on historic properties. In the unlikely event that human remains or cultural or

				archeological materials and/or artifacts are discovered all work will cease and the appropriate authorities (NCSHPO and FEMA) will be contacted within one working day.
American Indian/ Cultural/Religious Sites	X			None known. Incidental discovery requirements below.
Socioeconomic Resources		X		Improved communications in Person County and parts of surrounding counties, to improve public safety first response services.
Human Health and Safety		X		Improved interoperable communications in Person County and parts of the surrounding counties, for better public health and safety.
Environmental Justice	X			No adverse impacts on any people.
Noise		X		Noise producing activities would be done during normal working hours of 7:00 a.m. to 5:00 p.m. local time.
Public Service and Utilities		X		No notable impact on electrical or communications infrastructure.

4.1 PHYSICAL RESOURCES

4.1.1 Geology and Soils

Existing Conditions

Geology would not be affected by the Proposed Action and was not further evaluated (USDA).

Proposed Action site grading and excavating would cause temporary soil disturbance and possible soil erosion and sediment-laden surface runoff. BMPs would be used to reduce erosion and sedimentation. BMPS may include, among others: wetting soil to reduce erosion and dust, installing silt and sediment control fences, and seeding and wheat straw mulching.

Based on the review from the USDA soil classification for the Proposed Action, the soil types at the project site are defined as “prime.” The Proposed Action is not located on a unique geologic formation. Consultation with Kristen May, USDA North Carolina Area 2 Resource Soil Scientist,

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was done to determine if mitigation and regulatory requirements would be required. The proposed site received a total land evaluation score of 129 based upon the Farmland Protection Policy Act (FPPA), Farmland Impact Rating form provided to and completed by Ms. Kristen May. Sites receiving less than 160 points do not need further consideration for protection due to the lack of potential adverse impacts on existing land use activities. Due to the proposed area of disturbance being less than 1-acre and the Farmland Impact score of 125, it was determined that project construction would not significantly affect prime or unique soils.

4.1.2 Air Quality

Construction vehicle and equipment activities would be during normal working hours of 7:00 a.m. to 5:00 pm, and would have minor, short-term adverse impacts on air quality at and near the Proposed Action site. However, due to limited duration of vehicle and equipment use, and properly maintaining and operating vehicles and equipment, criteria air pollutants would not increase above accepted levels, resulting in no significant air quality impact.

After construction completion, ambient air quality at and near the Proposed Action site would likely return to previous, normal levels. The Proposed Action would not result in long-term operation of significant emission-generating sources, nor would it significantly alter existing ambient air quality. The proposed 40- to 80-kW emergency diesel powered generator, located within the proposed tower compound, would be an intermittent emission source. Generator frequency and duration of emissions would be limited due to the generator only being used during power outages and routine inspections. Also, Federal regulations limit backup generator use to 500 hours per year. North Carolina Highway Patrol communication tower sites use 40- to 80-kW Generac® Industrial Diesel Generators. According to Generac® product specification sheets, the generators are classified under Tier III of the EPA Emissions Compliance with an EPA Emissions Engine Reference of JDXL03.0113.

Brendan Davey of the North Carolina Department of Environment and Natural Resources (NCDENR) stated that emergency use generators are regulated under Title II of the Federal Clean Air Act. However, Mr. Davey also indicated there are no Federal Regulations under the Clean Air Act for emergency use generators with a rated capacity of under 590-kW for Diesel fired engines (Appendix F).

Emergency generator use is not expected to cause ambient air quality levels to notably increase at the proposed tower site, nor any adverse long term impacts on air quality, due to the limited duration and frequency of generator use. Therefore, there would be no significant impact to air quality from operations-related activities.

4.2 WATER RESOURCES

Water resources are inherently site-specific resources. According to the USGS Olive Hill, NC 7.5 Minute Topographic Quadrangle Map (Figure 2); EPA Region 4 Map of Sole Source Aquifers (<http://www.epa.gov/safewater/sourcewater/pubs/reg4.pdf>); FEMA Flood Insurance Rate Map (FIRM) panel *3710999500J (*panel not printed) (Figure 5); USFWS National Wetland Inventory

Map (Figure 6), and the www.rivers.gov website, the Proposed Action is located 747 feet AMSL with no indication of wetlands, floodplains, or wild or scenic rivers in these databases or maps. Site reconnaissance done on 8/23/2011 confirmed this information.

According to the USGS Olive Hill, NC 7.5 Topographic Map and the National Wetland Inventory Map, the nearest water body is located approximately 400 feet to the west of the proposed tower site and is a freshwater pond; however, according to the 2010 aerial photograph, the aforementioned pond appears to have been either drained and/or filled. The nearest apparent water body is a freshwater pond located approximately 1,700--feet southwest of the Proposed Action site. Area annual rainfall is about 45 inches per year.

Since the facility is less than one acre, an NPDES permit is not required. Based upon area topography and distance to the nearest surface water, the Proposed Action or operational actions are unlikely to adversely affect any water body.

4.2.1 Wild and Scenic Rivers

Existing Conditions

TEP personnel completed a review of information available through the www.rivers.gov website which indicates five Designated Wild and Scenic Rivers are located in North Carolina, but none are located within Person County. However, the National Park Service Rivers, Trails and Conservation Assistance (NPS RTCA) program identified one significant stream within Person County, North Carolina. According to the NPS RTCA program, the Tar River is approximately 93 miles in length and is located within portions of Nash, Franklin, Vance, Granville, and Person counties and is described as an attractive stream with several whitewater segments; secluded picturesque ravines and gorges.

Construction and Operations-Related Impacts – According to the USGS Olive Hill, NC 7.5 Minute Topographic Quadrangle Map and the National Wetlands Inventory Map, the Proposed Action is located about 13.5 miles northwest of the Tar River headwaters. Additionally, drainage from the Proposed Action site is anticipated to flow north-northwest, away from the Tar River, before entering an unnamed tributary of the North Flat River (part of the Neuse River watershed). There will be no impact to Wild or Scenic Rivers due to the Proposed Action construction.

4.2.2 Water Quality

The nearest jurisdictional water body, a freshwater pond, is located over 1,700 feet to the southwest of the proposed tower site. According to North Carolina Department of Environment and Natural Resources (NCDENR), because the Proposed Action site is less than one acre, a NPDES permit is not required. Based upon area topography and distance to the nearest surface water, the Proposed Action would not adversely affect any water body or water quality.

Water quality impacts during tower and compound construction may originate from soil erosion and sediment-laden surface runoff from soil disturbance and exposure associated with temporary

material staging locations, site preparation, access road construction, and daily site access for short periods during construction. Also, vehicle and equipment refueling has the potential for spills of petroleum products. All of these activities would be minor and temporary.

Considering the 0.18 acres of disturbance associated with the Proposed Action site and the distance to the nearest surface water feature, facility construction is unlikely to result in significant erosion. Any minor erosion and surface runoff from construction will be further reduced or mitigated by using BMPs. BMPs for soil erosion control for projects like this typically include silt fencing and/or straw bales to control erosion, minimizing exposed soil needed for each activity, siting staging areas to minimize erosion, replanting as soon as practicable, mulching, using temporary and/or permanent gravel covers, and limiting the number and speed of vehicles on the site.

Chemical, physical, or biological effects to water resources are not expected to violate water quality standards and criteria. The Roxboro tower site construction would not significantly impact water quality.

Post-construction operations impacts would be limited to minor erosion before the site is fully revegetated or during emergency generator refueling. Herbicide uses may contaminate surface runoff and nearby “receiving” waters when applied to the gravel access road or fenced compound to prevent weed growth. However, the potential for water quality impacts from a petroleum spill from emergency generator refueling or from an herbicide spill or application are minimal due to the limited occurrences annually and the small quantity that would be needed onsite.

BMPs during the project construction stage would continue until the site is fully revegetated. If required, a Spill Plan will be developed and followed to guide the required response in case of spills. However, under the authority of Section 311 (j)(1)(C) of the Federal Water Pollution Act (Clean Water Act) in Title 40, Code of Federal Regulations (CFR), Part 112 (40 CFR 112), a facility is not regulated under the SPCC Spill Prevention Plan if the aggregate aboveground storage tank capacity is under 1,320 gallons. Chemical, physical, or biological effects to water resources are not expected to violate water quality standards and criteria. There would be no significant impact to water quality from operations activities.

4.2.3 Wetlands and Sensitive Vegetation Delineation

According to site inspection, the USGS Olive Hill 7.5 Minute Topographic Quadrangle Map (Figure 2), and National Wetlands Inventory Map (Figure 6), the Proposed Action is not located within a wetland, and would not affect any wetlands (“waters of the United States”).

4.2.4 Floodplain Information

The Proposed Action site is not located in a floodplain, based on FEMA Flood Insurance Rate Map (FIRM) Panel #3710999500J (Figure 5). The Proposed Action would not affect floodplains (“Special Flood Hazard Areas”).

4.3 BIOLOGICAL RESOURCES

4.3.1 Threatened and Endangered Species and Critical Habitat

Existing Conditions

The U.S. Fish and Wildlife Service (USFWS) have identified one endangered species in Person County, NC. The Dwarf Wedgemussel (*Alasmodonta heterodon*) is a freshwater mussel found in portions of the Tar River watershed throughout the southeastern portion of Person County, as well as portions of Vance, Granville, Franklin and Warren counties. The Proposed Action site habitat was compared to the species habitat. No suitable habitat for these species was found at the project site during TEP site inspection on August 23, 2011. USFWS's Raleigh Field Office concurred with the determination that the Proposed Action would be "not likely to adversely affect" any federally listed species (USFWS, 12/20/2011, in Appendix B).

4.3.2 Migratory Birds

The proposed self-supporting tower would be about 280 feet (85.3 meters) AGL height, and would have short- and long-term minor impacts on migratory birds. No burrows, nests, rookeries, or other signs of migratory bird species or critical habitat were readily apparent during TEP site inspection on August 23, 2011.

Impacts to migratory birds could occur during erection of towers, antennas, ventilation, and air conditioning (HVAC) equipment installed using portable cranes. Construction activities along migratory bird pathways would have more potential to adversely affect migratory birds than activities in non-migratory areas.

Temporary use of equipment such as cranes to erect the communication tower, and HVAC equipment and antenna installation, would have minor, short-term effects on migratory birds

Effects on migratory birds may occur from birds' collisions with the communication tower, particularly during periods of low visibility, and from tower lighting that may distract or attract some species. Tower design, lighting, and height above surrounding trees; seasons, adjacent land features, and migratory patterns, would also affect the potential adverse effects on migratory birds. Collision probability is difficult to determine programmatically because of the wide range of variables that affect collision potential and the lack of conclusive data on causes of collision. However, a study conducted by Joelle Gehring, Central Michigan University-Biology Department, "Avian Collision Study Plan for the Michigan Public Safety Communications System" (MPSCS), concluded, "Though there are fewer tall towers than towers in the 116 to 146 m AGL height range, towers >305 m (1000.7 feet) AGL are responsible for several times the number of fatalities than shorter towers."

Adverse impacts on birds resulting from collisions generally during foggy or low cloud conditions at lighted towers supported by guy wires present greater collision risk than freestanding towers or buildings. The proposed self-supporting tower would be about 380 feet (115.8 m) AGL height.

Variables such as structure height above surrounding trees, design, lighting, seasons, adjacent land features, and migratory patterns, would affect the potential and degree of adverse impacts on migratory birds.

4.3.3 Wildlife and Fish

The Proposed Action site is inhabited by common small mammals, amphibians, insects, and other species typical in Person County. Tower and site construction would include excavating and grading, which could temporarily affect individual common, small mammals, amphibians, insects, and other species. However, based on the limited area of disturbance associated with the proposed construction, any impacts would be temporary and limited to individuals. Proposed tower facility construction would not significantly impact wildlife species' overall populations.

Proposed Action routine operations and maintenance would include mowing vegetation around the fenced compound and along the access drive edges. Mowing in these areas would maintain vegetation in early ecological successional stages of plant community development and may prevent reestablishment of some plant species. Similarly, normal tower site operations may lead to minor, local habitat degradation and occasional mortality of some wildlife or insect individuals.

After construction completion, potentially adverse impacts on wildlife species sensitive to disturbance could result from temporary noise generated by climate control such as heating and air condition equipment or emergency generator operation. This recurring, temporary low-level disturbance might exclude some wildlife or insect species, or promote colonization by disturbance tolerant wildlife or insect species

4.3.4 Vegetation

The Proposed Action site is located in a mature mixed pine/hardwood forest consisting of Loblolly pine (*Pinus taeda*), Eastern Red Cedar (*Juniperus virginiana*), Sourwood (*Oxydendrum arboretum*), Red Oak (*Quercus rubra*), White Oak (*Quercus alba*), and Red Maple (*Acer rubrum*).

Mechanized clearing of vegetation in the proposed construction site would be done before the tower facility construction. The mechanized clearing of vegetation would impact about 0.18 acres and would have no significant impact on vegetation in the remaining portions of the approximate 12 acre parent property.

Tower facility routine operations and maintenance would include mowing vegetation around the fenced compound and possibly along the access drive edges. Operations-related activities would not significantly impact area vegetation.

4.4 CULTURAL RESOURCES

4.4.1 Historic Properties

The Proposed Action (undertaking) would not have an adverse effect on historic and archeological resources and is therefore in compliance with National Historic Preservation Act (NHPS) Section

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106, and 36 CFR Part 800 (Protection of Historic Properties). Historic properties are properties that are included in the National Register of Historic Places or that meet National Register criteria.

NHPA requires the Federal Communications Commission (FCC) to consider impacts that proposed communications tower facilities, operating with a FCC license, may have on historic properties. On October 23, 2009, the Advisory Council on Historic Preservation (ACHP) issued a Program Comment (PC) for “Streamlining the Section 106 Review for Wireless Communications Facilities Construction and Modification Subject to Review Under the FCC National Programmatic Agreement (NPA) and/or the NPA for Collocation of Wireless Antennas.” According to the ACHP PC, FEMA is not required to conduct and complete its own Section 106 review process (no duplication of effort). Therefore, the Section 106 review conducted for the FCC NEPA review is described in this EA, and FEMA was neither required nor conducted additional Section 106 review.

4.4.2 FCC Nationwide Programmatic Agreement

In March 2005, the FCC implemented a Nationwide Programmatic Agreement (NPA) that established rules for Section 106 consultation with the State Historic Preservation Officers (SHPOs), Tribes (Tribal Historic Preservation Officers (THPOs) or other appropriate tribal official for tribes without a THPO) and Native Hawaiian Organizations (NHOs) that have been historically located in and/or have indicated interest in proposed communications facility sites; and public and local government involvement. To assist with the Section 106 review process, the FCC developed and instituted the Tower Construction Notification System (TCNS) using Form(s) 620/621. Form 620 is used to submit site specific information and records of local government consultations with the State Historic Preservation Officer (SHPO) and for American Indian Tribes with the Tribal Historic Preservation Officers (THPRs) for proposed communications tower facilities. The FCC Form 621 is also used to submit site specific information and records of local government consultations with the SHPO for proposed collocations of antennas on existing communications towers or non-tower structures such as buildings, elevated water tanks, and electric transmission towers.

Under the FCC NPA all Tribes and NHOs who have indicated interest in the area are required to respond within 30 days of receiving notification. If a response is not received within that timeframe, then a second “follow-up” notification is done to obtain response. When no response is received after the “follow-up” notification, then the FCC must be notified and interagency consultations are done with the non-responsive Tribe or NHO.

TCNS was available by Internet at <https://wireless2.fcc.gov/ulsclogin/index.htm> and required an identification number or FRN. Using TCNS, entities input a proposed communications facility’s site specific information, including: location, structure type, and structure height with and without attachments. Information entered into TCNS was then made available to the applicable SHPOs and THPOs who expressed interest in a specified geographic area

4.4.3 State Historic Preservation Officer

TEP visited the NC State Historic Preservation Office (NC SHPO) and the NC Office of State Archeology to view the applicable USGS 7.5-minute topographic quadrangle map (Olive Hill) to assess the Proposed Action's potential significant impacts on architectural, historic, or archaeological resources. Also, TEP contracted Environmental Services, Inc., a cultural resources consulting firm, to perform an Archaeological Evaluation, of the Proposed Action's potential effects on archaeological resources. The evaluation concluded the Proposed Action would not affect any archaeological resources eligible for inclusion in the National Register of Historic Places. In addition, the evaluation concluded that no additional archaeological investigation is recommended for this project. Further, TEP received concurrence from Ms. Renee Gledhill-Earley of NC Dept. of Cultural Resources-Environmental Review Coordinator and Ms. Susan G. Myers of NC Dept. of Cultural Resources: Office of State Archaeology-Project Registrar, regarding the proposed project on 12/9/2011 for FCC requirements that included a 0.75 mile visual Area of Potential Effects (APE) (Appendix C).

4.4.4 American Indian/Cultural/Religious Sites

The TCNS system notified five American Indian Tribes that expressed interest in Person County, North Carolina. These Tribes were the Tuscarora Nation, Cherokee Nation, Eastern Shawnee Tribe of Oklahoma, Shawnee Tribe, and Catawba Indian Nation. TEP used the provided TCNS Tribe list to contact these Tribes a second time, if needed to obtain additional information on the Proposed Action. All American Indian Tribes concurred with the Proposed Action (Appendix E).

Under the FCC NPA all American Indian Tribes that have indicated interest in the area are required to respond within 30 days of receiving notification. If response was not received within that timeframe, then a second "follow-up" notification was given. When no response was received after the "follow-up" notification, then the FCC would be notified and interagency consultations would be completed with the non-responsive Tribe.

TEP sent follow-up notification letters on 12/6/2011 to each Tribe (if needed) identified by the TCNS system. Sections 4.4.4.1 through 4.4.4.5 summarize the consultations.

4.4.4.1 Tuscarora Nation

TEP provided no follow-up notification to the Tuscarora Nation as the TNCS states "If the Applicant/tower builder receives no response from the Tuscarora Nation within 30 days after notification through TCNS, the Tuscarora Nation has no interest in the participating in the pre-construction review for the site. The Applicant/tower builder, however, must IMMEDIATELY notify the Tuscarora Nation in the event archaeological properties or human remains are discovered. On 12/2/2011, the TCNS system notified all Tribes that indicated interest in Person County, NC. The 30day comment period ended on 1/2/2012. No response has been received by TEP personnel before issuance of this Draft EA and no additional consultation was required.

4.4.4.2 Cherokee Nation

TEP provided a follow-up notification letter to Dr. Richard Allen of the Cherokee Nation on 12/6/2011 by email. TEP received concurrence from the Cherokee Nation by email on 12/21/2011 that stated, “The Cherokee Nation has no knowledge of any historic, cultural or sacred sites within the affected area. Should any ground disturbance reveal an archeological site of human remains, we ask that the all activity cease immediately and the Cherokee Nation and other appropriate agencies be contacted immediately.” (Appendix B).

4.4.4.3 Eastern Shawnee Tribe of Oklahoma

TEP provided no follow-up notification to the Eastern Shawnee Tribe of Oklahoma, as the TCNS system states, “If you, the Applicant/tower constructor, do not receive a response from us, the Eastern Shawnee Tribe of Oklahoma, within 30 days from the date of the TCNS notification, then you may conclude that we do not have an interest in the site. However, if archeological resources or remains are found during construction, you must immediately stop construction and notify us of your findings in accordance with the FCC’s rules. (See 47 C.F.R. § 1.1312(d))” On 12/2/2011, the TCNS system notified all Tribes that indicated interest in Person County. The 30day comment period ended on 1/2/2012. No response has been received by TEP personnel before the issuance of this Draft EA and no additional consultation was required.

4.4.4.4 Shawnee Tribe

TEP provided follow-up notification to Ms. Kim Jumper of the Shawnee Tribe on 12/6/2011, by standard U.S. mail. TEP received concurrence from the Shawnee Tribe on 12/27/2011, that stated; “The Shawnee Tribe’s Tribal Historic Preservation Officer concurs that no known historic properties will be negatively impacted by construction of this tower site (see memo line above for TCNS number(s)). The Shawnee Tribe’s archives do not reveal any issues of concern at this tower location. In the event that archaeological materials are encountered later during construction, use, or maintenance of this tower location, please re-notify us at that time as we would like to resume consultation under such a circumstance.” (Appendix B).

4.4.4.5 Catawba Indian Nation

TEP provided a follow-up notification to Ms. Wenonah Haire of the Catawba Indian Nation Tribal Historic Preservation Office on 12/6/2011, by standard U.S. mail. TEP received concurrence from the Catawba Indian Nation on 12/19/2011 that stated, “The Catawba have no immediate concerns with regard to traditional cultural properties, sacred sites, or Native American archaeological sites within the boundaries of the proposed project areas. **However, the Catawba are to be notified if Native American artifacts and/or human remains are located during the ground disturbance phase of this project.**” (Appendix B).

4.4.5 Inadvertent Discovery

In the unlikely event that construction activities result in the inadvertent discovery of human remains, cultural or archeological materials, then all ground-disturbing activities will cease

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operation immediately and all appropriate agencies, such as FEMA, NC SHPO, and Tribes with an expressed interest in Person County, NC will be contacted.

4.5 SOCIOECONOMIC RESOURCES

4.5.1 Environmental Justice

Presidential Executive Order (EO) 12898 (Environmental Justice) directs federal agencies "...to make achieving environmental justice part of its mission by identifying and addressing, as appropriate, disproportionately high and adverse human health or environmental effects of its programs, policies, and activities on minority populations and low income populations in the United States."

The Proposed Action would not adversely affect any low-income or minority populations. It would positively affect all segments of the population of Person County, by improving public safety and emergency services communications.

4.5.2 Noise

The Proposed Action site is located in a rural portion of Person County that has mostly undeveloped forest with low density residential land use. The ambient noise levels associated with rural residential areas are anticipated to reach up to between 35 and 45 dBA (FERC 2002, EPA 1978).

The Proposed Action would temporarily increase local noise. The amount and type of noise would vary depending on the type of machinery used, distance from the construction site and noise source, construction schedule and duration, and site specific and area specific conditions. Heavy machinery use would have minor, temporary adverse impacts on nearby low-density residences. The nearest residence from the proposed tower site and source of noise is about 700feet to the northwest. This residence is separated from the proposed tower location by approximately 600feet of dense forested land . Construction noise would typically occur during normal working hours of 7:00 a.m. to 5:00 p.m., when noise would be masked by ambient noise levels of the surrounding project area, caused by proximity to CritcherWilkerson Road. Noise levels before and after construction would likely drop back to the project area's normal ambient noise levels.

Construction noise levels would be temporary (no more than eight hours during weekdays for a total of about five weeks). Noise levels at 50 feet or more from the Proposed Action site should be under 85 dBA. These noise levels would be partly masked by trees and other vegetation around the site. Ambient noise levels caused by traffic from Critcher Wilkerson Road should also partly mask the proposed construction's noise levels. Thus, construction noise levels would not be significant.

The project area's ambient noise levels would return to normal after the proposed construction is finished. Temporary operations-related noise increases would be caused by the Proposed Action's two air conditioning (A/C) and heating units and emergency generator. The A/C units regulate the equipment shelter's internal temperature and the diesel fueled emergency generator provides

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electric power to the facility, as needed, in emergency situations when normal electrical power supply would be interrupted.

The Proposed Action would include use of a 40- to 80-kW diesel fueled emergency generator that produces noise levels of about 80 dBA at 23 feet from the source. This generator would not increase site ambient noise levels due to use only during power outages and routine maintenance and tests. Federal regulations limit emergency generator use to 500 hours per year. Thus, the Proposed Action would not have significant long-term noise impacts.

4.5.3 Traffic

The Proposed Action would have minor traffic impacts if appropriate planning and implementation actions are taken. Traffic would occasionally, moderately increase near the project site during construction. Existing roads would be used as much as possible during construction and during normal operations. Traffic flow and control during construction would meet all local and State traffic requirements. Proposed Action construction and operations traffic would be occasional, temporary, and not significantly affect local traffic.

4.5.4 Public Service and Utilities

Existing Conditions

The Proposed Action area has electrical and communications utilities along Critcher Wilkerson Road. Existing utilities located along Critcher Wilkerson Road would be used to provide electrical and telephone services for the Proposed Action.

Construction and operations would not cause major power shortages or require major system changes. Impacts on utilities would not be significant.

4.5.5 Public Health and Safety

The Proposed Action would be located in a forested portion of an approximately 12 acre parcel. Based on the specified elevation of the proposed antennas (>10 meters AGL) and because the site will be located within a restricted area with fencing and appropriate signage, the proposed facility is not expected to threaten public health or safety and has been determined to be categorically excluded from further assessment of radio frequency exposure per FCC NEPA regulations that can be found in 47 C.F.R. Section 1.1307(b), 1.1307(b-Table 1), and 1.1310.

Also, implementation of worker safety rules, per Occupational Safety and Health Administration safety and health standards, would establish a uniform set of safety practices and procedures to protect workers. Construction related impacts to human health and safety would not be significant.

Under the authority of Section 311 (j)(1)(C) of the Federal Water Pollution Act (Clean Water Act) in Title 40, Code of Federal Regulations (CFR), Part 112 a facility is not regulated under the SPCC Spill Prevention Plan if the total aboveground storage tank capacity is under 1,320 gallons.

The Proposed Action operations would not have a significant adverse impact on human health and safety. Operations would have substantial positive impact on public health and safety from improved public safety and emergency communications for Person County and parts of surrounding counties.

4.6 CUMULATIVE IMPACTS

Cumulative impacts are an individual action's environmental impacts when combined with the environmental impacts of other actions in the past, present, and foreseeable future (about 20 years). Cumulative impacts result from individually less than significant impacts, but collectively significant impacts that occur over time and apply to a given resource type or area of concern.

Currently, the North Carolina Highway Patrol has built 63 of the proposed 119 new tower sites for the VIPER Network. According to FCC Antenna Structure Registration (ASR) System information, there are currently 4,550 registered towers in North Carolina, including the 63 "active" VIPER network towers. After VIPER network system completion, with construction of the last 56 new towers, the number of registered communications towers, if no other providers build new towers and no towers are damaged or destroyed, would be 4,606. The proposed 119 VIPER network towers, including the 56 towers still to be built would increase the number of communications towers in North Carolina about 2.58%. The Proposed Action's purpose is to meet the North Carolina Highway Patrol's current radio frequency coverage needs in Person County and parts of surrounding counties; and the need is to better protect the lives, property, environmental quality, and quality of life for over 114,000 people.

The Proposed Action would not have any significant, adverse cumulative impacts on any resource described in Section 4 of this Draft EA. Any construction or operation related impact on any resource would be minor and temporary.

5.0 AGENCY COORDINATION AND PUBLIC INVOLVEMENT

TEP contacted the Person County Historical Society and the Person County Planning and Zoning Department regarding the Proposed Action by standard U.S. mail on 12/6/2011, inviting them to be a consulting party regarding any potential impact to historical or archaeological resources in the area. No response has been received as of the issuance of this Draft EA. TEP also published Public Notice in the "Courier-Times" newspaper on 12/7/2011 and 3/3/2012 regarding any impacts the Proposed Action may have on historic resources within the APE. No responses to the Public Notices or letters requesting comments have been received by TEP as of the issuance of this Draft EA.

6.0 CONCLUSIONS

The Proposed Action would require construction of a new radio transmitting and receiving, self-supporting tower over 200 feet AGL, thus this site specific FEMA HSGP NEPA EA was required. The Proposed Action would not involve any unusual risks or impacts to resources discussed in Section 4 of this Draft EA. Under the No Action Alternative, there would not be complete interoperable communications capability in Person County, North Carolina and parts of surrounding counties. Existing public safety interoperable communications gaps would persist, and adversely impact public health and safety.

In accordance with 47 CFR Section 1.1307 (a)(1) through (8), an evaluation has been made to determine whether any of the listed FCC special interest items would be significantly affected if a tower structure and/or antenna and associated equipment control cabinets were constructed at the proposed site location. No FCC special interest items were identified that would require an FCC NEPA EA to be prepared (Appendix E).

If there are no significant, validated negative Public Comments about this Proposed Action's impacts, as described in this Draft EA, by the end of this Draft EA's Public Comment Period, then this Draft EA will become the Final Environmental Assessment and FEMA Region IV will issue a "Finding of No Significant Impact" (FONSI) for this Proposed Action.

7.0 LIST OF PREPARERS

Document Preparers:

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Document Reviewers:

Fred M. Holycross, FEMA GPD EHP Coordinator

Mary Rountree, Floodplain Management Specialist, FEMA Region IV

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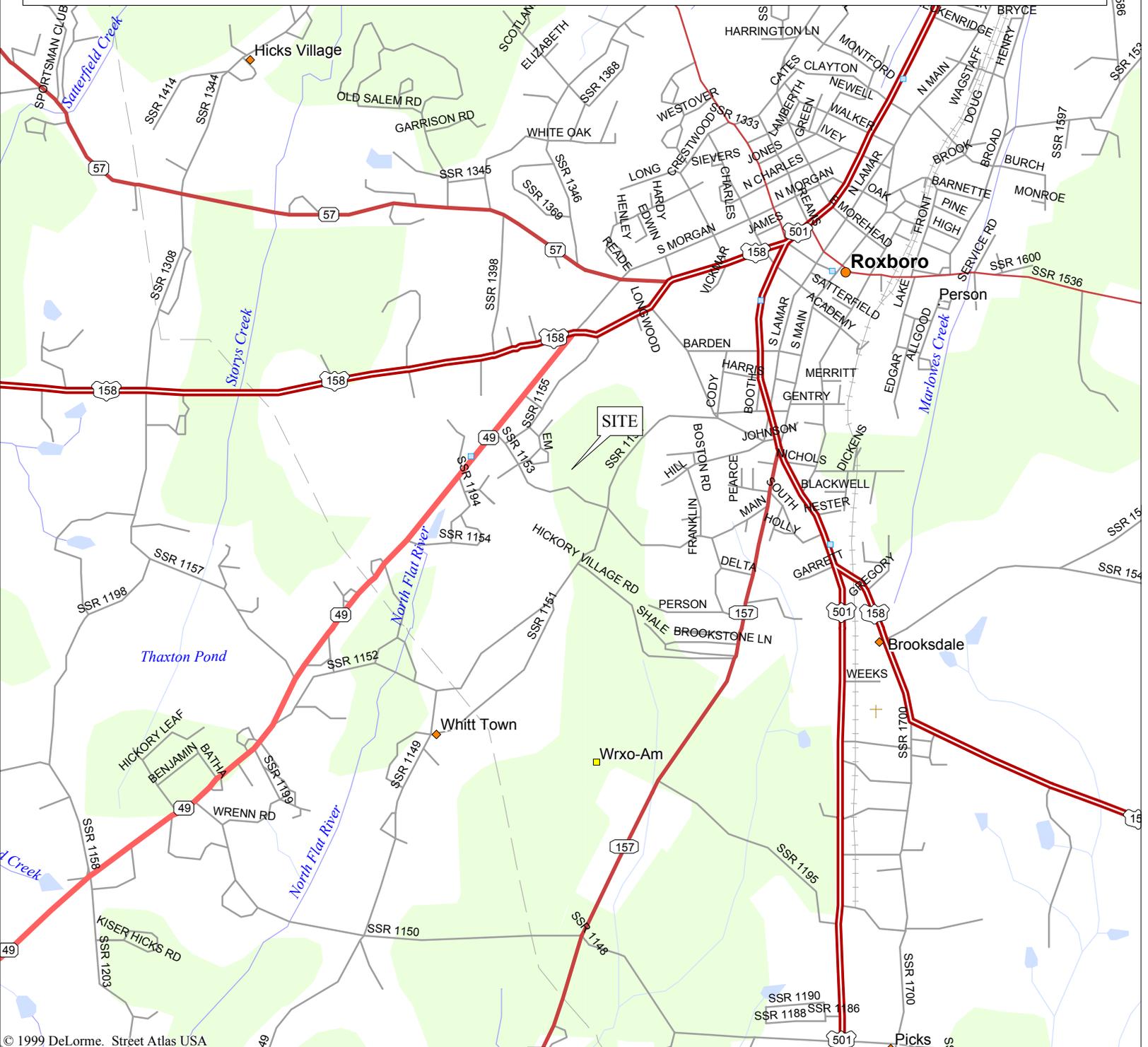
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FIGURES

Figure 1: Site Vicinity Map

Roxboro Site Vicinity Map

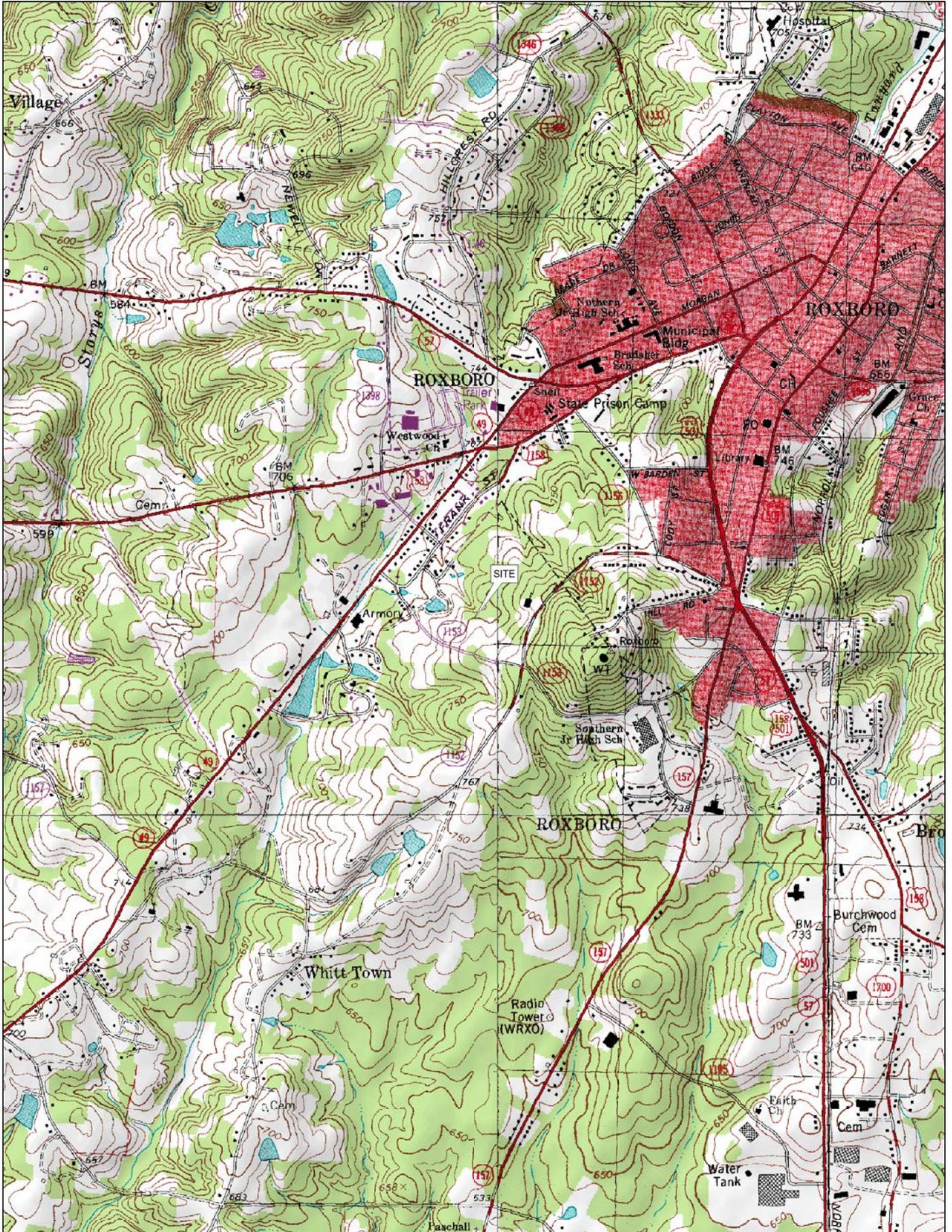


© 1999 DeLorme. Street Atlas USA

Mag 14.00
 Wed Mar 07 14:21 2012
 Scale 1:31,250 (at center)
 2000 Feet
 1000 Meters

- | | |
|---------------------|--------------------|
| Local Road | County Seat |
| Major Connector | Locale |
| State Route | Cemetery |
| Primary State Route | Water |
| US Highway | Woodland |
| Utility/Pipe | River/Canal |
| Railroad | Intermittent River |
| Point of Interest | |

Figure 2: Topographic Map



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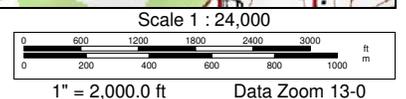
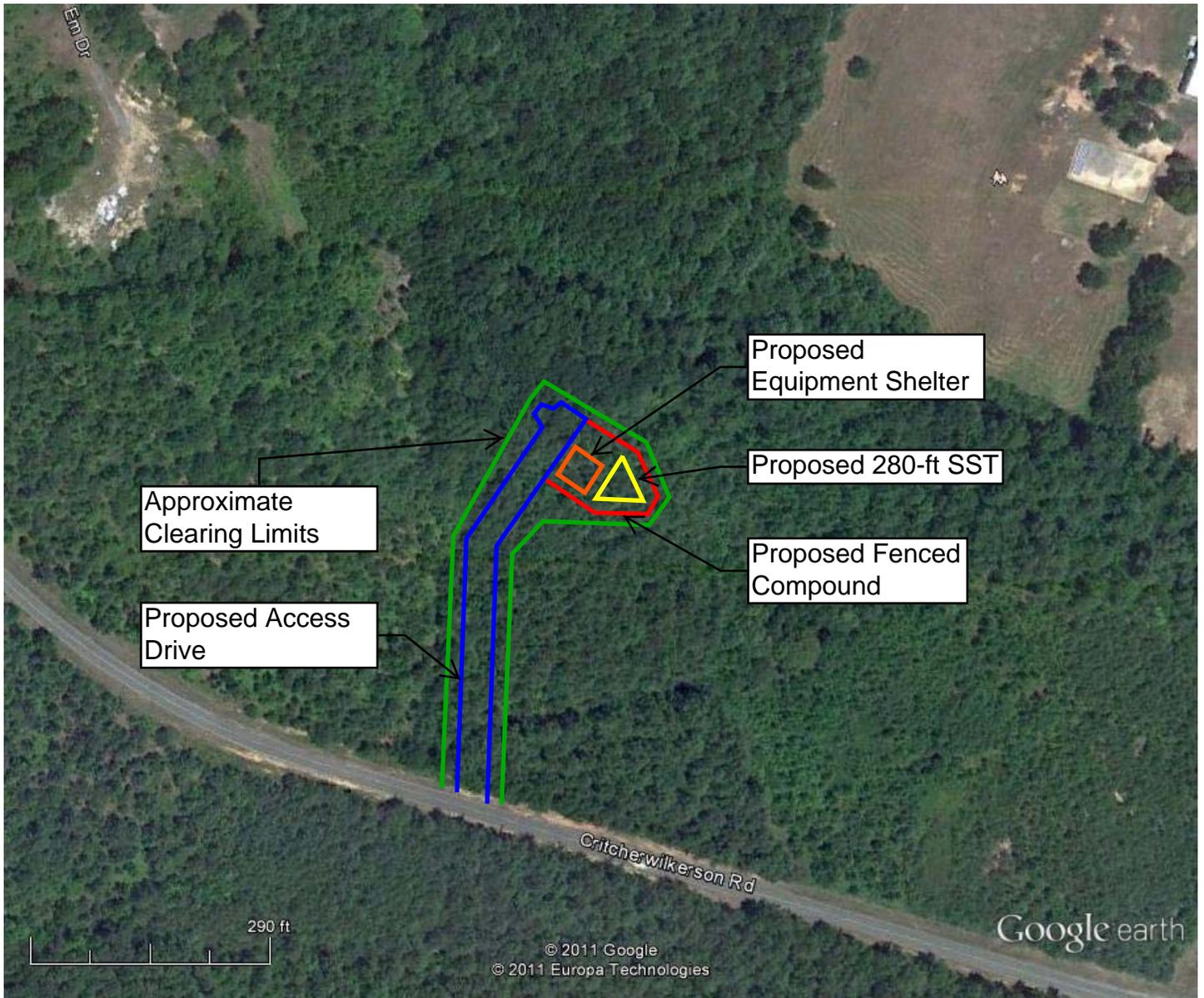
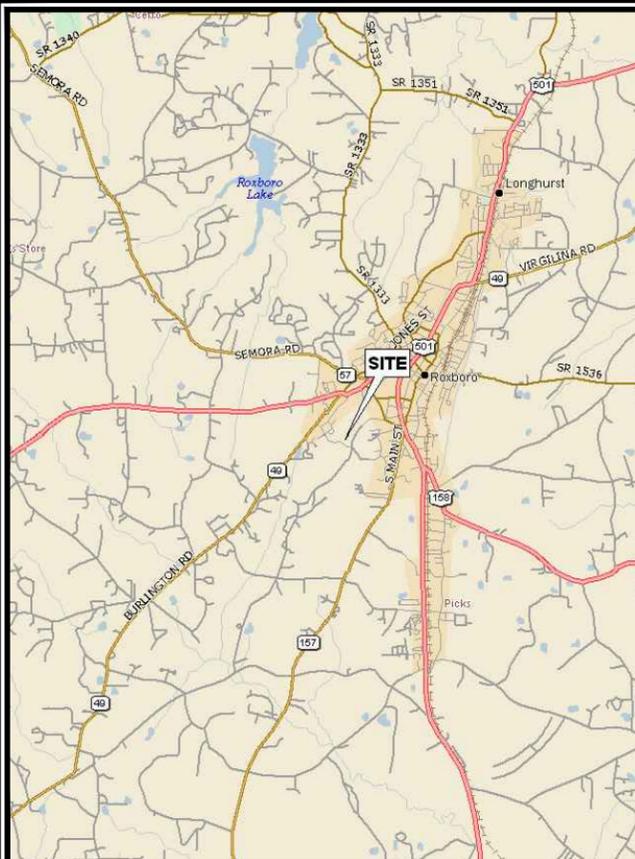


Figure 3: Site Plan

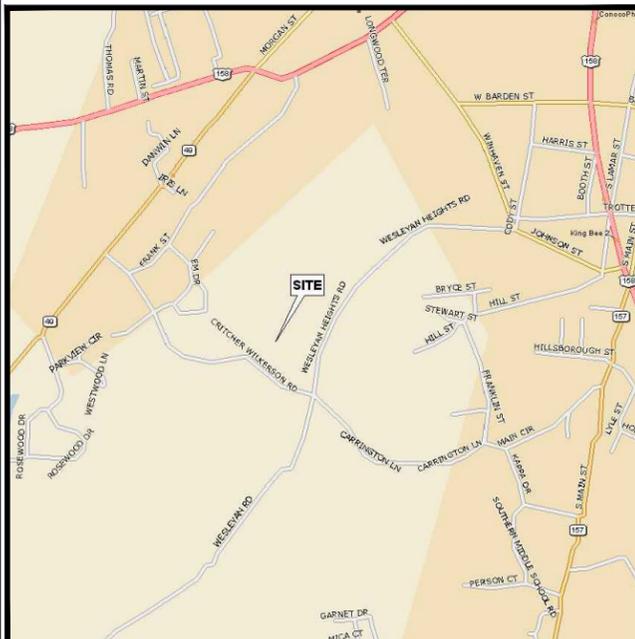


Google earth





VICINITY MAP



LOCATION MAP

DRIVING DIRECTIONS

FROM RALEIGH, NC, TRAVEL WEST ON I-40. TAKE EXIT 279B ONTO THE DURHAM FREEWAY (SR 147). AFTER APPROXIMATELY 7 MILES TAKE EXIT 12 ONTO US 501B. CONTINUE STRAIGHT AS US 501B MERGES WITH US 501. AFTER APPROXIMATELY 24 MILES TURN LEFT ONTO JOHNSON STREET IN ROXBORO. CONTINUE STRAIGHT AS JOHNSON STREET TURNS INTO WESLEYAN HEIGHTS ROAD. AFTER 0.6 MILES TURN RIGHT ONTO CRITCHER WILKERSON ROAD. THE ENTRANCE TO THE SITE WILL BE 0.1 MILES ON THE RIGHT.

DRIVING DIRECTIONS

PROJECT INFORMATION:

PROPOSED TELECOMMUNICATIONS FACILITY

SITE NAME:
ROXBORO

SITE NUMBER:
HP-1234

SCO ID NUMBER:
10-08820-01D

AERONAUTICAL STUDY NO:
2011-ASO-4065-OE

SITE ADDRESS:
**CRITCHER-WILKERSON ROAD
ROXBORO, NC 27573
(PERSON COUNTY)**

LATITUDE N 36° 23' 00.256" *
LONGITUDE W 079° 00' 03.527" *
GROUND ELEVATION = 747.1' (AMSL)*

* PER 1-A CERTIFICATION LETTER BY TOWER ENGINEERING PROFESSIONALS DATED 11-2-11

1-A CERTIFICATION

TOWER OWNER:
NAME NORTH CAROLINA HIGHWAY PATROL
ADDRESS 3318 GARNER ROAD, BUILDING TWO
CITY, STATE, ZIP RALEIGH, NC 27610
CONTACT MARTY RANDALL
PHONE (919) 662-4440

APPLICANT / LESSEE:
NAME NORTH CAROLINA HIGHWAY PATROL
ADDRESS 3318 GARNER ROAD, BUILDING TWO
CITY, STATE, ZIP RALEIGH, NC 27610
CONTACT MARTY RANDALL
PHONE (919) 662-4440

PROPERTY OWNER:
NAME PERSON COUNTY
ADDRESS 304 SOUTH MORGAN STREET
CITY, STATE, ZIP ROXBORO, NC 27573
CONTACT HEIDI YORK (COUNTY MANAGER)
PHONE (336) 597-1720

AREA OF CONSTRUCTION: 2,000 SQ. FT.±
PRESENT OCCUPANCY TYPE: VACANT LOT
PROPOSED OCCUPANCY TYPE: TELECOMMUNICATIONS FACILITY
CURRENT ZONING: R
PARCEL ID NUMBER: 0905-05-08-1178.000
JURISDICTION: PERSON COUNTY

UTILITIES:
POWER COMPANY: PROGRESS ENERGY
CONTACT: CUSTOMER SERVICE
PHONE: (866) 452-2777
METER # NEAR SITE: 28 161 511
TELEPHONE COMPANY: SPRINT
CONTACT: CUSTOMER SERVICE
PHONE: (800) 927-2199
PEDESTAL # NEAR SITE: M2 03A

PROJECT SUMMARY

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING:

1. NC BUILDING CODE (2009 EDITION)
2. ANSI/TIA/EIA-222-G
3. NC ELECTRIC CODE (2008 EDITION)
4. LOCAL BUILDING CODE
5. CITY/COUNTY ORDINANCES

CODE COMPLIANCE

SURVEYOR:
NAME TOWER ENGINEERING PROFESSIONALS, INC.
ADDRESS 3703 JUNCTION BOULEVARD
CITY, STATE, ZIP RALEIGH, NC 27603
CONTACT CLIFFORD C. BYRD, P.L.S.
PHONE (919) 661-6351

CIVIL ENGINEER:
NAME TOWER ENGINEERING PROFESSIONALS, INC.
ADDRESS 3703 JUNCTION BOULEVARD
CITY, STATE, ZIP RALEIGH, NC 27603
CONTACT JOHN GOINS, P.E.
PHONE (919) 661-6351

STRUCTURAL ENGINEER:
NAME N/A
ADDRESS N/A
CITY, STATE, ZIP N/A
CONTACT N/A
PHONE N/A

ELECTRICAL ENGINEER:
NAME TOWER ENGINEERING PROFESSIONALS, INC.
ADDRESS 3703 JUNCTION BOULEVARD
CITY, STATE, ZIP RALEIGH, NC 27603
CONTACT J. RUSSELL HILL, P.E.
PHONE (919) 661-6351

GEOTECHNICAL ENGINEER:
NAME TOWER ENGINEERING PROFESSIONALS, INC.
ADDRESS 3703 JUNCTION BOULEVARD
CITY, STATE, ZIP RALEIGH, NC 27603
CONTACT JOHN D. LONGEST, P.E.
PHONE (919) 661-6351

TOWER MANUFACTURER:
NAME T.B.D.
ADDRESS T.B.D.
CITY, STATE, ZIP T.B.D.
CONTACT T.B.D.
PHONE T.B.D.

PROJECT TEAM

APPLICANT/OWNER:



N.C. HIGHWAY PATROL
3318 GARNER ROAD, BLDG. 2
OFFICE: (919) 662-4440



IF YOU DIG IN NORTH CAROLINA...
CALL US FIRST!
1-800-632-4949

NORTH CAROLINA ONE CALL
IT'S THE LAW

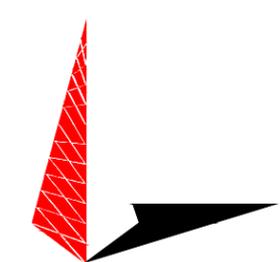
THE UTILITIES SHOWN HEREON ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER/SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

UTILITY STATEMENT

SHEET	DESCRIPTION	REV
T1	TITLE SHEET	0
T2	N.C. APPENDIX B	0
T3	N.C. APPENDIX B	0
T4	N.C. APPENDIX B	0
T5	N.C. APPENDIX B	0
N1	PROJECT NOTES	0
C1	SITE PLAN	0
C2	LEGAL DESCRIPTION	0
C3	COMPOUND DETAIL	0
C4	TOWER ELEVATION	0
C5	SHELTER ELEVATIONS	0
C6	FOUNDATION DETAIL	0
C7	GENERATOR FOUNDATION DETAILS	0
C8	ICE BRIDGE DETAILS	0
C9	ANTENNA & COAX MOUNTING DETAILS	0
C10	SHELTER ACCESS DETAILS	0
C11	FENCE DETAILS	0
E1	ELECTRICAL NOTES	0
E2	SERVICE ROUTING PLAN	0
E3	ONE LINE DIAGRAM, PANEL SCHEDULE & NOTES	0
E4	EQUIPMENT GROUNDING PLAN	0
E5	GROUNDING DETAILS	0
E6	GROUNDING DETAILS II	0

INDEX OF SHEETS

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
3703 JUNCTION BOULEVARD
RALEIGH, NC 27603-5263
OFFICE: (919) 661-6351
www.tepgroup.net

N.C. LICENSE # C-1794

REV	DATE	ISSUED FOR:
0	09-29-11	PRELIMINARY CONSTRUCTION

DRAWN BY: TRG | CHECKED BY: JBG

SEAL:

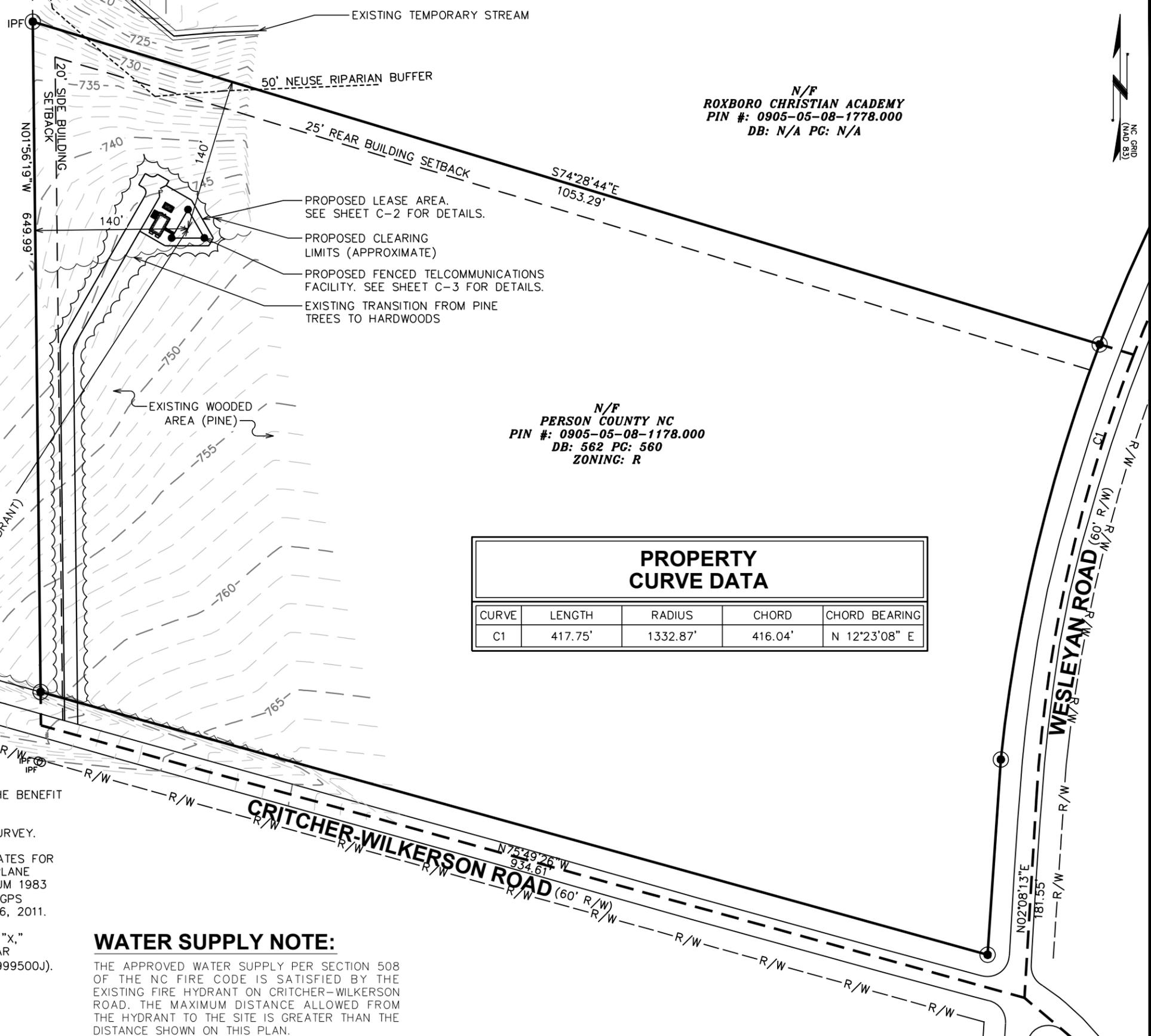


SEAL:

SHEET NUMBER: T-1	REVISION: 0
TEP #: 113097	

LEGEND

	WATER VALVE
	FIRE HYDRANT
	EXIST. PROPERTY LINE
	ADJ. PROPERTY LINE
	EXIST. UTILITY POLE
	EXIST. TELCO PEDESTAL
	EXIST. CONTOUR LINE
	EDGE OF PAVEMENT
	OVERHEAD WIRE
	CHAIN LINK FENCE
	EXISTING TREE LINE
	IRON ROD FOUND
	PROPERTY CORNER



PROPERTY CURVE DATA

CURVE	LENGTH	RADIUS	CHORD	CHORD BEARING
C1	417.75'	1332.87'	416.04'	N 12°23'08" E

N/F
WILKERSON HOLDING LTD. PTN.
 PIN #: 9995-08-98-1617.000
 DB: 292 PG: 406

N/F
PERSON COUNTY NC
 PIN #: 0905-05-08-1178.000
 DB: 562 PG: 560
 ZONING: R

NOTES:

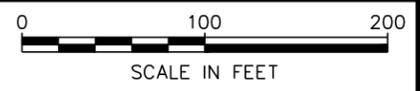
- THIS PLAN HAS BEEN PREPARED WITHOUT THE BENEFIT OF A REPORT OF TITLE.
- THIS PLAN DOES NOT REPRESENT A TITLE SURVEY.
- THE BASIS OF THE MERIDIANS AND COORDINATES FOR THIS PLAT IS THE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NCSPCS NAD 83), BASED ON DIFFERENTIAL GPS OBSERVATIONS PERFORMED ON SEPTEMBER 16, 2011.
- THIS PROPERTY IS LOCATED IN FLOOD ZONE "X," AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN (FEMA/FIRM MAP NUMBER 3710999500J).
- SUBJECT PIN: 0905-05-08-1178.000
- PROPERTY OWNER: PERSON COUNTY, NC

WATER SUPPLY NOTE:

THE APPROVED WATER SUPPLY PER SECTION 508 OF THE NC FIRE CODE IS SATISFIED BY THE EXISTING FIRE HYDRANT ON CRITCHER-WILKERSON ROAD. THE MAXIMUM DISTANCE ALLOWED FROM THE HYDRANT TO THE SITE IS GREATER THAN THE DISTANCE SHOWN ON THIS PLAN.

SITE PLAN

SCALE: 1" = 100'



PLANS PREPARED FOR:

 3318 GARNER ROAD, BLDG. 2
 RALEIGH, NC 27607
 OFFICE: (919) 662-4440

PROJECT INFORMATION:
ROXBORO
SITE # HP-1234
SCO ID # 10-08820-01D
 CRITCHER-WILKERSON ROAD
 ROXBORO, NC 27573
 (PERSON COUNTY)

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
 3703 JUNCTION BOULEVARD
 RALEIGH, NC 27603-5263
 OFFICE: (919) 661-6351
 www.tepgroup.net
 N.C. LICENSE # C-1794

SEAL:

0	04-02-12	PRELIMINARY CONSTRUCTION
REV	DATE	ISSUED FOR:

DRAWN BY: TRG | CHECKED BY: JBG

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
Z-1

REVISION:
0
 TEP #: 113097

LEGAL DESCRIPTION 2,262 SQ. FT.

LEASE AREA PARCEL "A"

BEING A PORTION OF THE LANDS LYING, SITUATE, AND BEING LOCATED IN PERSON COUNTY, NORTH CAROLINA AND DESCRIBED IN DEED BOOK 562, AT PAGE 560 OF THE PERSON COUNTY REGISTER OF DEEDS, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS;

COMMENCING AT AN EXISTING IRON ON THE NORTHWESTERN LIMITS OF THE PARCEL OF LAND DESCRIBED IN DEED BOOK 562, AT PAGE 560 OF THE PERSON COUNTY REGISTER OF DEEDS OFFICE, SAID IRON HAVING N.C. GRID COORDINATES OF; NORTHING = 958,667.04, AND EASTING = 1,999,569.40; THENCE FROM THE POINT OF COMMENCEMENT, SOUTH 39°11'36" EAST A DISTANCE OF 193.22 FT. TO A NEW IRON SET ON THE NORTHWEST CORNER OF DESCRIBED 2,262 SQ. FT. LEASE AREA, SAID IRON BEING THE TRUE POINT OF BEGINNING AND HAVING N.C. GRID COORDINATES OF NORTHING = 958,517.29', AND EASTING = 1,999,691.50'; THENCE FROM THE POINT OF BEGINNING, SOUTH 60°00'00" EAST A DISTANCE OF 26.76 FT. TO A NEW IRON SET; THENCE SOUTH 30°00'00" EAST A DISTANCE OF 40.04 FT. TO A NEW IRON SET; SOUTH 30°00'00" WEST A DISTANCE OF 8.08 FT. TO A NEW IRON SET; WEST A DISTANCE OF 40.04 FT. TO A NEW IRON SET; NORTH 60°00'00" WEST A DISTANCE OF 26.76 FT. TO A NEW IRON SET; NORTH 30°00'00" EAST A DISTANCE OF 48.12 FT. TO THE POINT OF BEGINNING.

SAID SUBJECT PARCEL CONTAINING 2,262 SQUARE FEET OR 0.05 ACRES, MORE OR LESS.

NOTE:

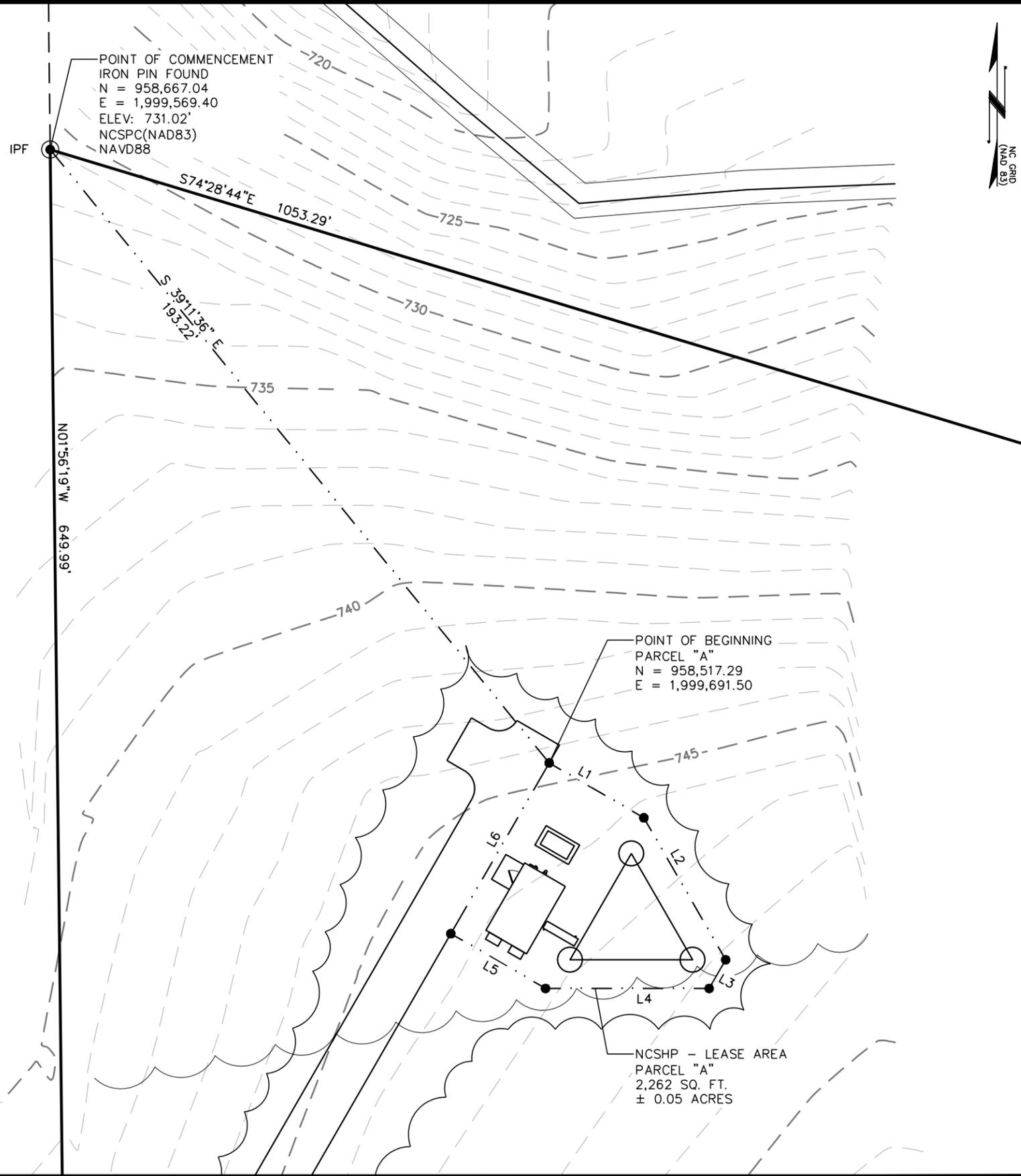
INFORMATION TAKEN FROM SURVEY BY TOWER ENGINEERING PROFESSIONALS DATED T.B.D.. ALL INFORMATION SHOWN ON THIS PLAN IS FOR REFERENCE ONLY. ANY DISCREPANCIES SHOWN ON THIS PLAN SHALL BE SUPERCEDED BY ABOVE REFERENCED SURVEY.

LEGEND

- EXIST. PROPERTY LINE
- - - - - ADJ. PROPERTY LINE
- PROPERTY CORNER
- IRF IRON ROD FOUND
- ⊗ CM CONCRETE MONUMENT
- ⊕ EXIST. UTILITY POLE
- Ⓣ EXIST. TELCO PEDESTAL
- Ⓢ EXIST. POWER PEDESTAL
- - - 200 - - - EXIST. CONTOUR LINE
- /// EDGE OF PAVEMENT
- OHW-- OVERHEAD WIRE
- X — CHAIN LINK FENCE
- ⌋ EXISTING TREE LINE

LEASE AREA LINE DATA

LINE	BEARING	DISTANCE
L1	S 60°00'00" E	26.76'
L2	S 30°00'00" E	40.04'
L3	S 30°00'00" W	8.08'
L4	WEST	40.04'
L5	N 60°00'00" W	26.76'
L6	N 30°00'00" W	48.12'



PLANS PREPARED FOR:

3318 GARNER ROAD, BLDG. 2
RALEIGH, NC 27607
OFFICE: (919) 662-4440

PROJECT INFORMATION:

ROXBORO
SITE # HP-1234
SCO ID # 10-08820-01D

CRITCHER-WILKERSON ROAD
ROXBORO, NC 27573
(PERSON COUNTY)

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
3703 JUNCTION BOULEVARD
RALEIGH, NC 27603-5263
OFFICE: (919) 661-6351
www.tepgroup.net

N.C. LICENSE # C-1794

SEAL:

PRELIMINARY
DO NOT USE FOR
CONSTRUCTION

REV	DATE	ISSUED FOR:
0	04-02-12	PRELIMINARY CONSTRUCTION

DRAWN BY: TRG CHECKED BY: JBG

SHEET TITLE:

LEGAL DESCRIPTION

SHEET NUMBER: **C-2**

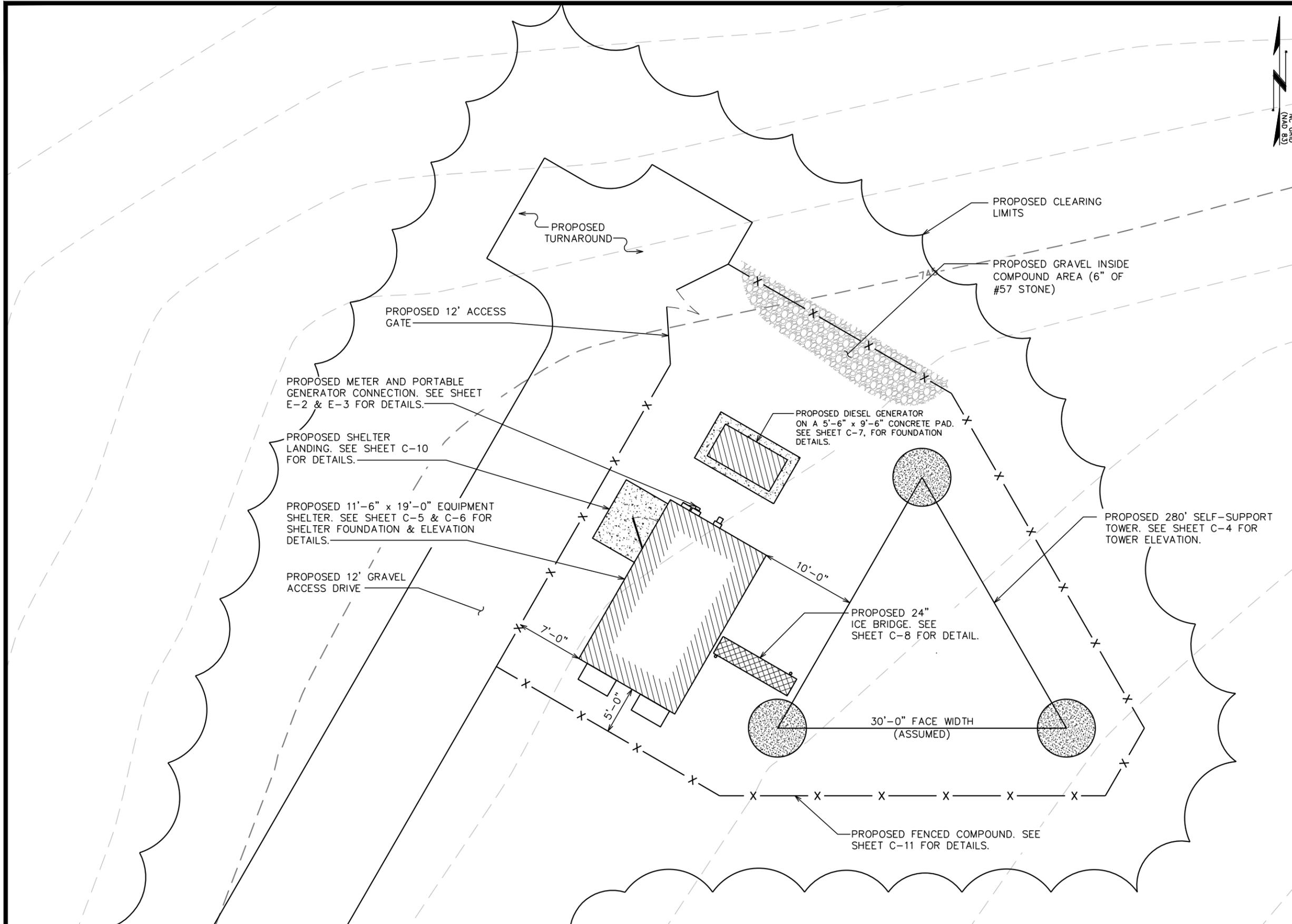
REVISION: **0**

TEP #: 113097

LEGAL DESCRIPTION

SCALE: 1" = 30'





PLANS PREPARED FOR:



3318 GARNER ROAD, BLDG. 2
 RALEIGH, NC 27607
 OFFICE: (919) 662-4440

PROJECT INFORMATION:
ROXBORO
SITE # HP-1234
SCO ID # 10-08820-01D
 CRITCHER-WILKERSON ROAD
 ROXBORO, NC 27573
 (PERSON COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
 3703 JUNCTION BOULEVARD
 RALEIGH, NC 27603-5263
 OFFICE: (919) 661-6351
 www.tepgroup.net
 N.C. LICENSE # C-1794

SEAL:

PRELIMINARY
 DO NOT USE FOR
 CONSTRUCTION

0	04-02-12	PRELIMINARY CONSTRUCTION
REV	DATE	ISSUED FOR:

DRAWN BY: TRG | CHECKED BY: JBG

SHEET TITLE:
**COMPOUND
 DETAIL**

SHEET NUMBER:
C-3

REVISION:
0
 TEP #: 113097

COMPOUND DETAIL
 SCALE: 1" = 10'



ANSI/TIA-222-G DESIGN NOTE:

THE PROPOSED TOWER SHALL BE DESIGNED PER THE FOLLOWING PARAMETERS:

STRUCTURE CLASSIFICATION: III
 EXPOSURE CATEGORY: C
 TOPOGRAPHIC CATEGORY: 1

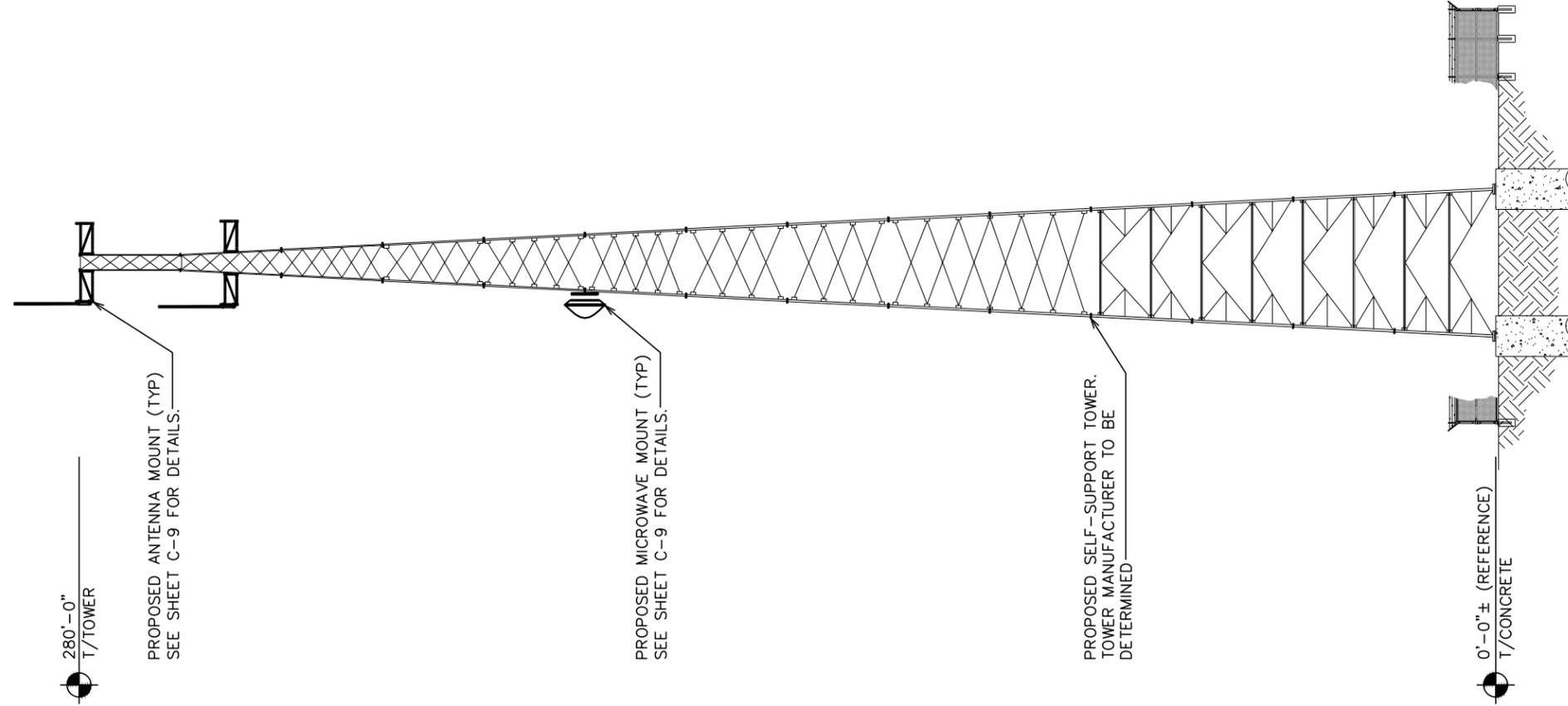
** DESIGN WIND SPEED:
 90mph(3sec GUST), 76mph(FATEST MILE)

ANTENNA MOUNT NOTE:

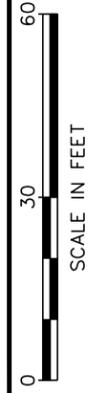
ANTENNA/MICROWAVE MOUNTS HAVE BEEN ORDERED FROM THE TOWER MANUFACTURER. MOUNTS SPECIFIED ON SHEET C-8 SHOULD NOT BE DUPLICATED IF EXISTING MOUNTS ARE PRESENT.

NOTES:

1. PROPOSED COAX TO BE MOUNTED TO WAVEGUIDE LADDER. VERIFY WITH TOWER MANUFACTURER THAT THE LADDER WILL BE PROVIDED WITH THE TOWER.
2. LIGHTNING ROD, TOWER LIGHTS, AND CLIMBING LADDER TO BE PROVIDED BY TOWER MANUFACTURER.
3. TOWER SHALL BE ILLUMINATED ONLY AS REQUIRED BY THE FEDERAL COMMUNICATIONS COMMISSION (FCC), THE FEDERAL AVIATION ADMINISTRATION (FAA), OR OTHER STATE OR FEDERAL AGENCY OF COMPETENT JURISDICTION.
4. TOWER SHALL BE CONSTRUCTED OF GALVANIZED STEEL OR PAINTED PER APPLICABLE STANDARDS OF THE FAA OR OTHER APPLICABLE FEDERAL OR STATE AGENCY.
5. A SINGLE SIGN, 2 FEET SQUARE, IN A VISIBLE LOCATION SHALL BE REQUIRED WITH NAME AND EMERGENCY TELEPHONE NUMBER OF THE TOWER OWNER AND ALL COMPANIES OPERATING ON THE TOWER. NO ADVERTISING SHALL BE ATTACHED TO THE TOWER.



TOWER ELEVATION
 SCALE: 1" = 30'



PLANS PREPARED FOR:



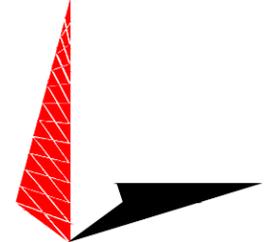
3318 GARNER ROAD, BLDG. 2
 RALEIGH, NC 27607
 OFFICE: (919) 662-4440

PROJECT INFORMATION:

ROXBORO
SITE # HP-1234
SCO ID # 10-08820-01D

CRITCHER-WILKERSON ROAD
 ROXBORO, NC 27573
 (PERSON COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
 3703 JUNCTION BOULEVARD
 RALEIGH, NC 27603-5263
 OFFICE: (919) 661-6351
 www.tepgroup.net

N.C. LICENSE # C-1794

SEAL:

PRELIMINARY
 DO NOT USE FOR
 CONSTRUCTION

0	04-02-12	PRELIMINARY CONSTRUCTION
REV	DATE	ISSUED FOR:

DRAWN BY: TRG CHECKED BY: JBG

SHEET TITLE:

**TOWER
 ELEVATION**

SHEET NUMBER: C-4	REVISION: 0
TEP #: 113097	

Figure 4: Aerial Photograph



Google earth



Figure 5: FEMA Flood Insurance Rate Map

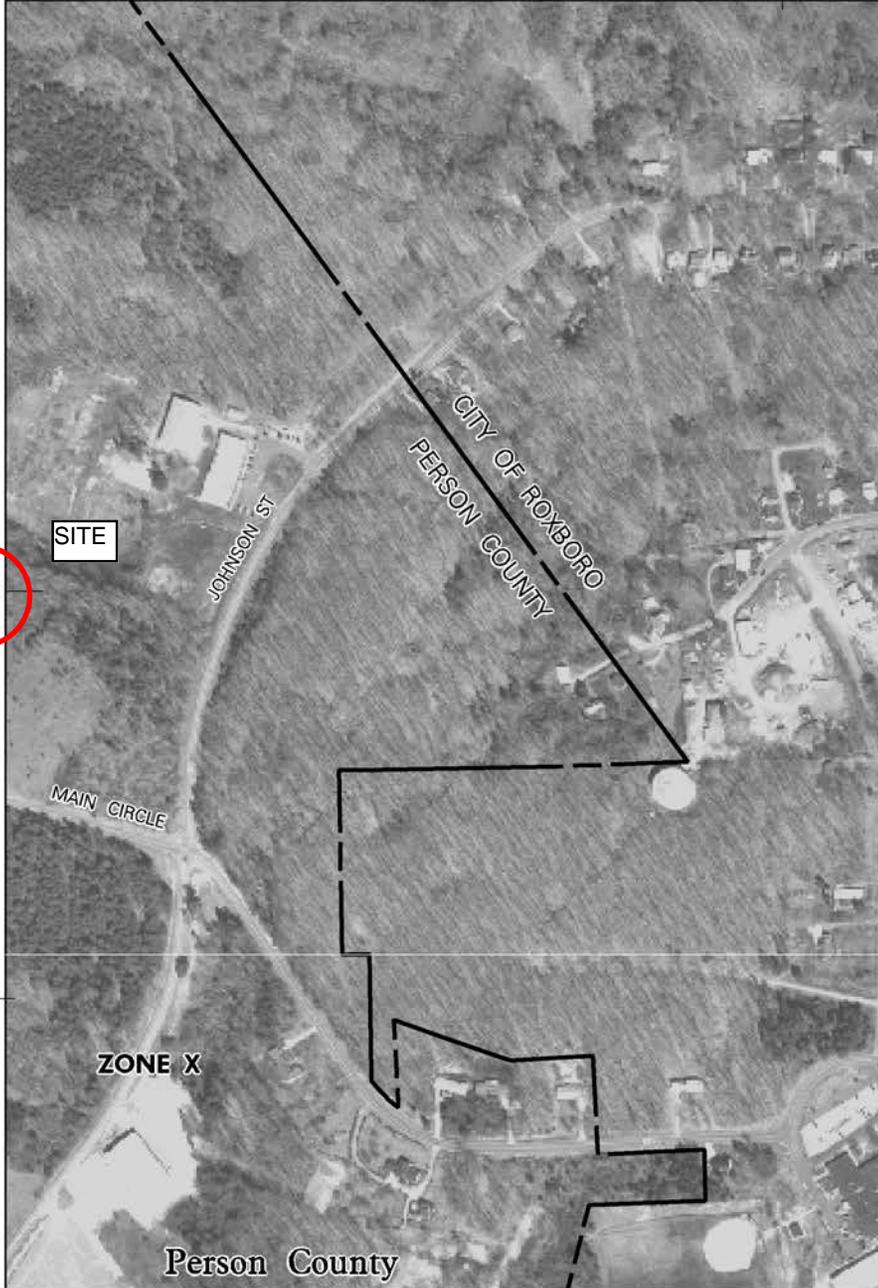
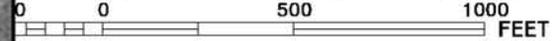
2 000 000 FEET
960 000 FEET

680 000 M



GRID NORTH

SCALE 1" = 500' (1 : 6,000)



36° 23' 00"

4028 000 M

ZONE X

Person County

NFIP

PANEL 0905J

FIRM FLOOD INSURANCE RATE MAP NORTH CAROLINA

PANEL 0905

(SEE LOCATOR DIAGRAM OR MAP INDEX FOR FIRM
PANEL LAYOUT)

CONTAINS:

COMMUNITY	CID No.	PANEL	SUFFIX
PERSON COUNTY	370346	0905	J
ROXBORO, CITY OF	370347	0905	J

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

EFFECTIVE DATE
JUNE 4, 2007

MAP NUMBER
3720090500J



State of North Carolina
Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

LEGEND



SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

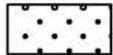
The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.



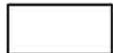
FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.



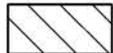
OTHER FLOOD AREAS

- ZONE X** Areas of 0.2% annual chance flood; areas of future conditions 1% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

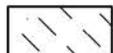


OTHER AREAS

- ZONE X** Areas determined to be outside the 0.2% annual chance and future conditions 1% annual chance floodplain.
- ZONE D** Areas in which flood hazards are undetermined, but possible.



COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS



OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.



GRID NORTH

SCALE 1" = 500' (1 : 6,000)

0 0 500 1000 FEET

NFIP

PANEL 0905J

FIRM FLOOD INSURANCE RATE MAP NORTH CAROLINA

PANEL 0905

(SEE LOCATOR DIAGRAM OR MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	CID No.	PANEL	SUFFIX
PERSON COUNTY	370346	0905	J
ROXBORO, CITY OF	370347	0905	J

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

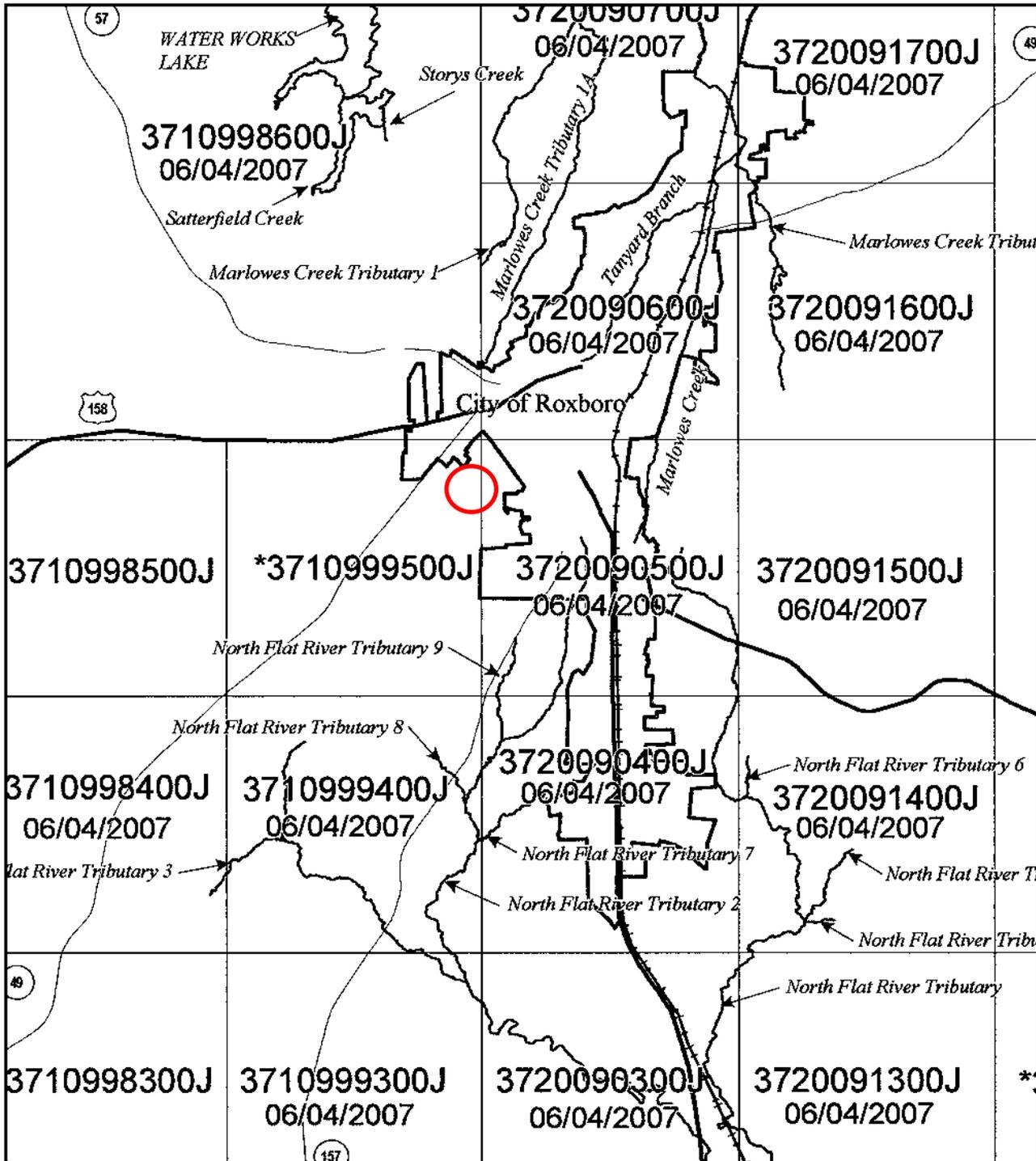
EFFECTIVE DATE
JUNE 4, 2007

MAP NUMBER
3720090500J



State of North Carolina
Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



NATIONAL FLOOD INSURANCE PROGRAM

MAP INDEX

FIRM
FLOOD INSURANCE RATE MAP
PERSON COUNTY,
NORTH CAROLINA
AND INCORPORATED AREAS

(SEE LISTING OF COMMUNITIES TABLE)

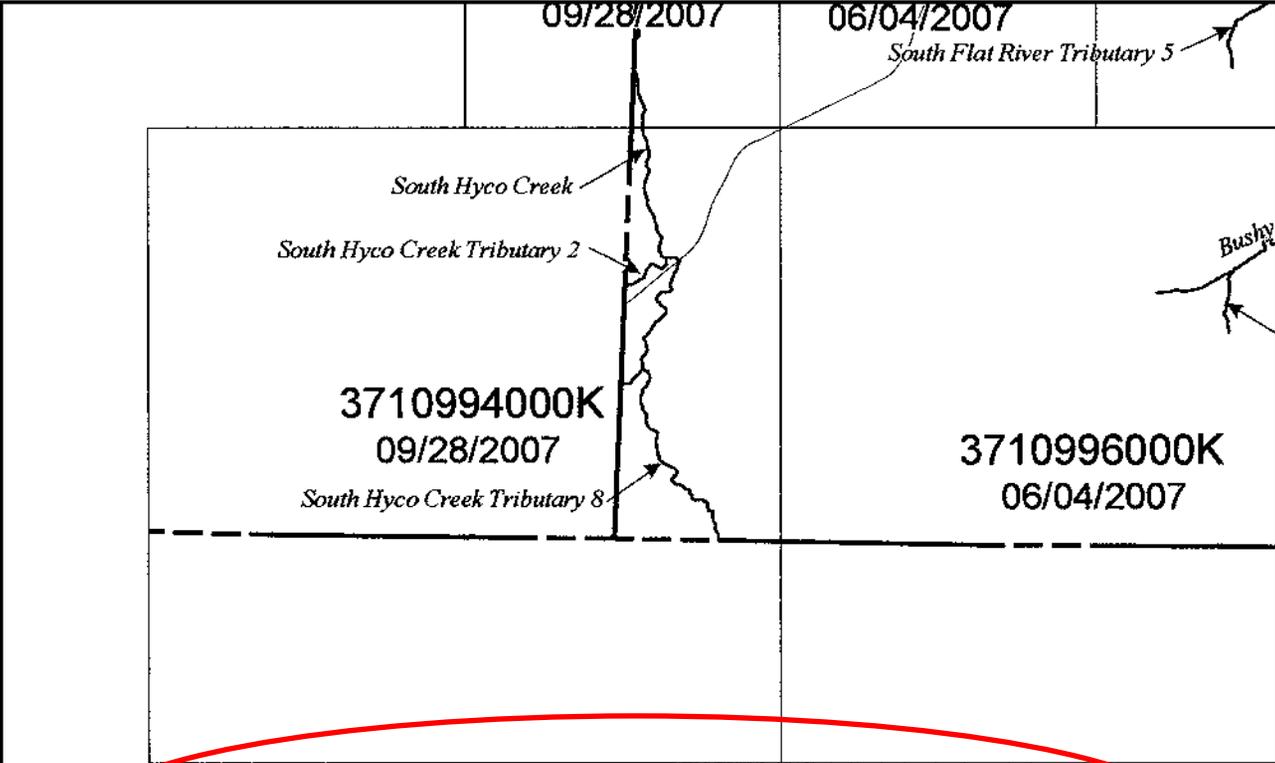
MAP INDEX
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MAP REVISED **MAP NUMBER**
SEPTEMBER 28, 2007 **37145CIND0B**



State of North Carolina
 Federal Emergency Management Agency

* This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



NATIONAL FLOOD INSURANCE PROGRAM

MAP INDEX

FIRM
FLOOD INSURANCE RATE MAP
PERSON COUNTY,
NORTH CAROLINA
AND INCORPORATED AREAS

(SEE LISTING OF COMMUNITIES TABLE)

MAP INDEX
PANELS PRINTED: 0000, 0020, 0021, 0030, 0031, 0040, 0041, 0050, 0051, 0901, 0902, 0903, 0904, 0905, 0906, 0907, 0908, 0910, 0911, 0912, 0913, 0914, 0915, 0916, 0917, 0920, 0921, 0922, 0924, 0926, 0928, 0929, 0930, 0931, 0932, 0933, 0938, 0939, 0940, 0942, 0945, 0948, 0954, 0955, 9070, 9071, 9080, 9081, 9090, 9091, 9940, 9952, 9953, 9954, 9956, 9957, 9958, 9959, 9980, 9982, 9983, 9984, 9986, 9987, 9988, 9989, 9972, 9976, 9977, 9978, 9979, 9981, 9982, 9984, 9986, 9988, 9989, 9990, 9991, 9992, 9993, 9994, 9996, 9999

MAP REVISED **MAP NUMBER**
SEPTEMBER 28, 2007 **37145CIND0B**



State of North Carolina
 Federal Emergency Management Agency

* PANEL NOT PRINTED - NO SPECIAL FLOOD HAZARD AREAS
 ** NO SPECIAL FLOOD HAZARD AREAS IN PERSON COUNTY

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

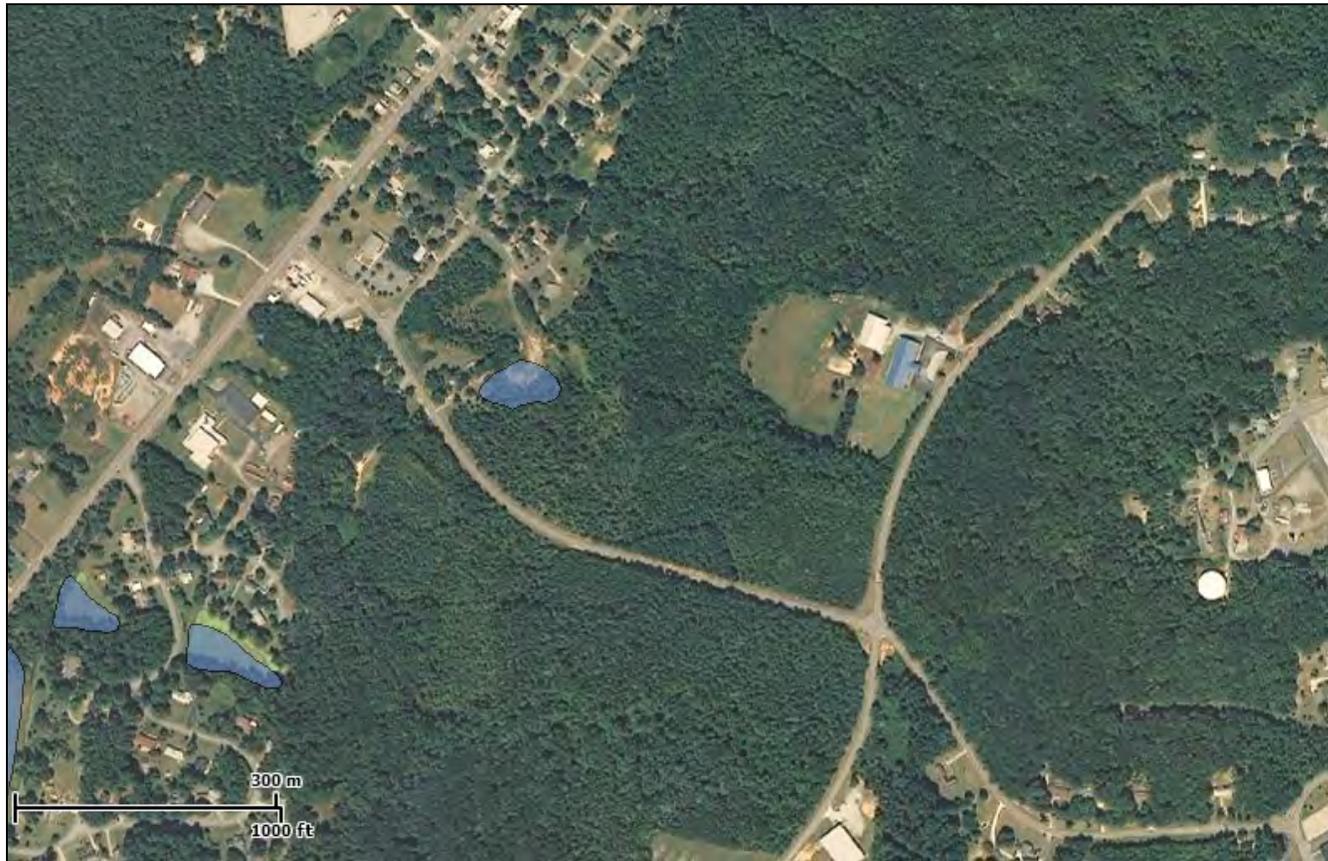
Figure 6: National Wetland Inventory Map



U.S. Fish and Wildlife Service National Wetlands Inventory

Person County

Dec 2, 2011



Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

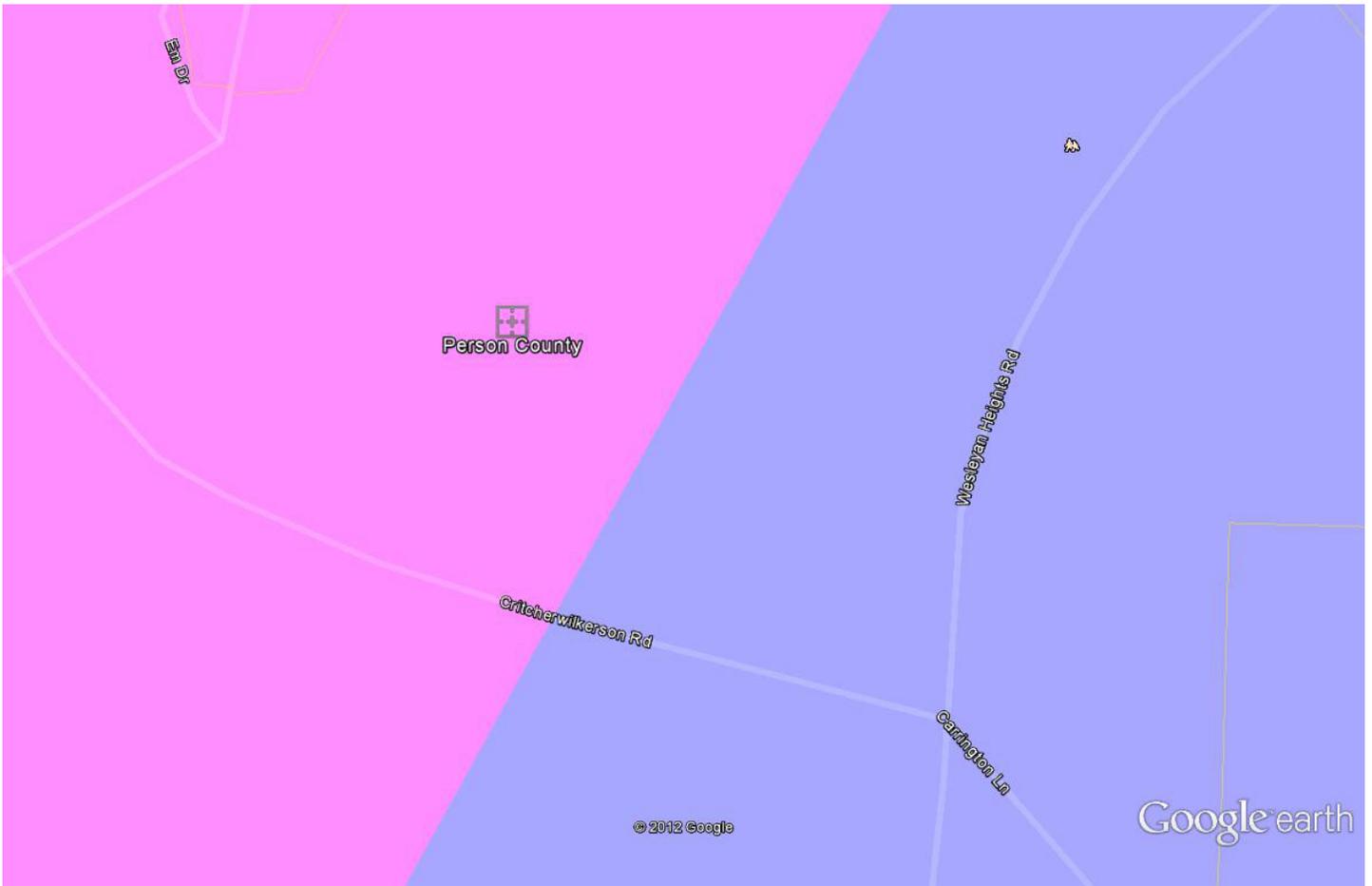
Riparian

- Herbaceous
- Forested/Shrub

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

Figure 7: Geologic Map

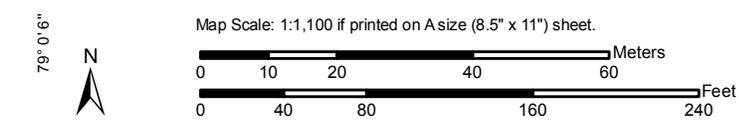
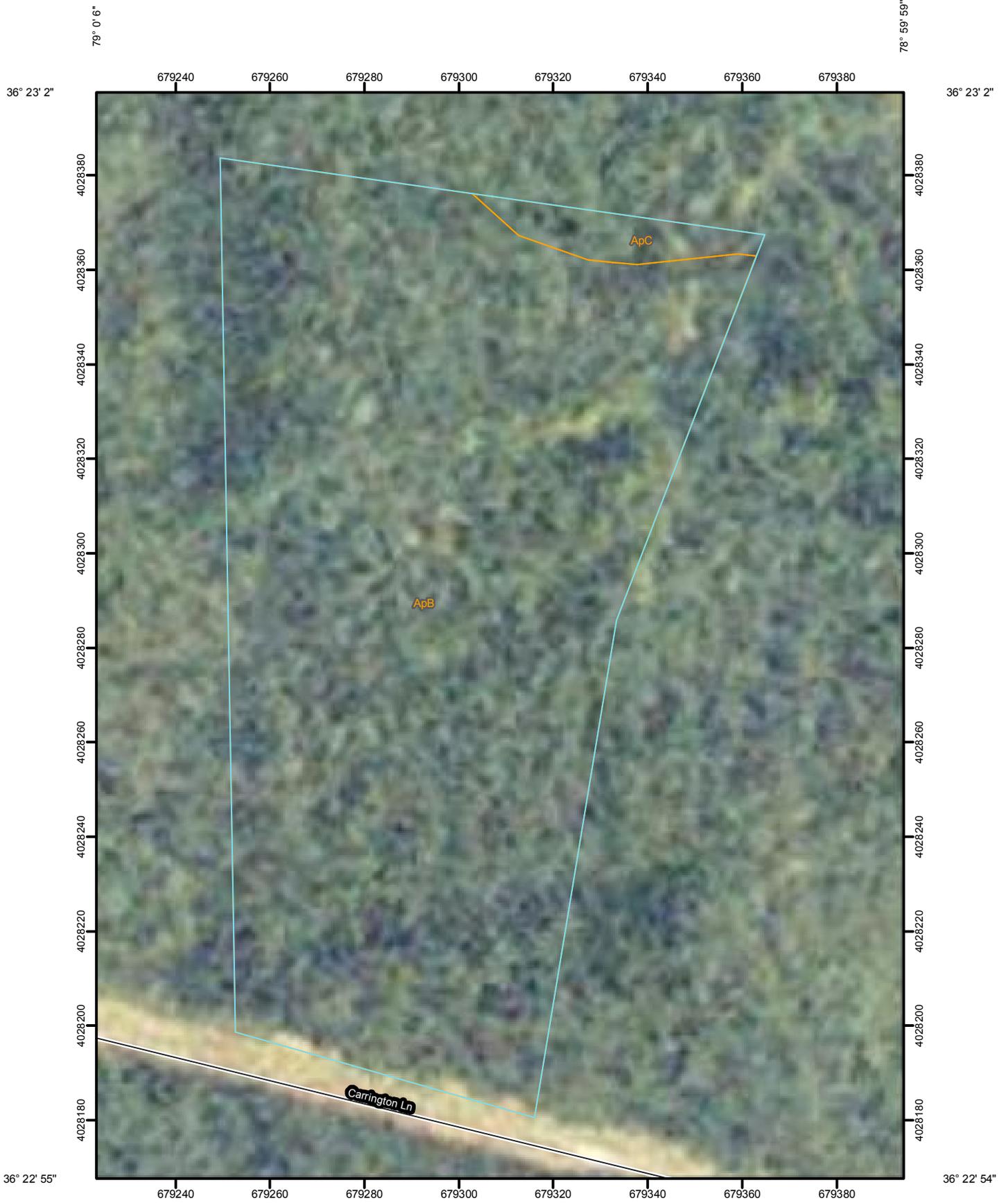


Google earth



Figure 8: Soils Map

Soil Map—Person County, North Carolina
(Roxboro)



MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Units

Special Point Features

-  Blowout
-  Borrow Pit
-  Clay Spot
-  Closed Depression
-  Gravel Pit
-  Gravelly Spot
-  Landfill
-  Lava Flow
-  Marsh or swamp
-  Mine or Quarry
-  Miscellaneous Water
-  Perennial Water
-  Rock Outcrop
-  Saline Spot
-  Sandy Spot
-  Severely Eroded Spot
-  Sinkhole
-  Slide or Slip
-  Sodic Spot
-  Spoil Area
-  Stony Spot

 Very Stony Spot

 Wet Spot

 Other

Special Line Features

-  Gully
-  Short Steep Slope
-  Other

Political Features

 Cities

Water Features

 Streams and Canals

Transportation

-  Rails
-  Interstate Highways
-  US Routes
-  Major Roads
-  Local Roads

MAP INFORMATION

Map Scale: 1:1,100 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:24,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: <http://websoilsurvey.nrcs.usda.gov>
Coordinate System: UTM Zone 17N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Person County, North Carolina
Survey Area Data: Version 13, Sep 30, 2011

Date(s) aerial images were photographed: 8/28/2006

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Person County, North Carolina (NC145)			
Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ApB	Appling sandy loam, 2 to 6 percent slopes	3.9	97.1%
ApC	Appling sandy loam, 6 to 10 percent slopes	0.1	2.9%
Totals for Area of Interest		4.0	100.0%

Appendices

Appendix A: Site Photographs



1. View facing north from Critcher-Wilkerson Road along the proposed access easement.



2. View facing north along the proposed access easement.



3. View facing southeast towards the proposed tower compound lease area.



4. View from the proposed tower compound lease area facing south-southwest along the proposed access drive.

Appendix B: FCC NEPA Land Use Compliance Checklist



**NEPA COMPLIANCE CHECKLIST
PROPOSED 280-FOOT SELF SUPPORT
COMMUNICATIONS TOWER**

**SITE NAME: ROXBORO
SITE NUMBER: HP-1234**

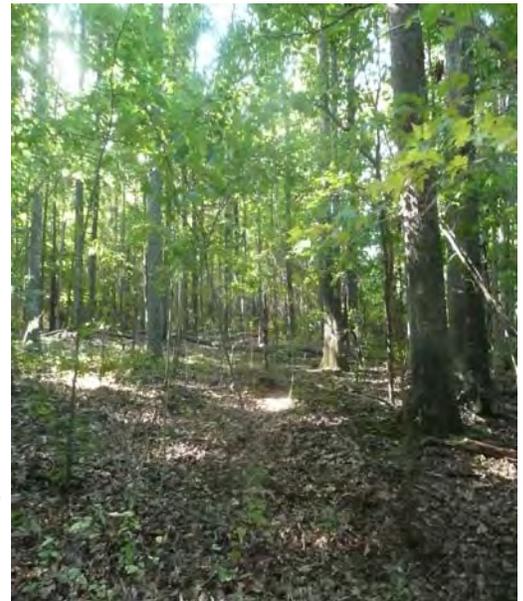
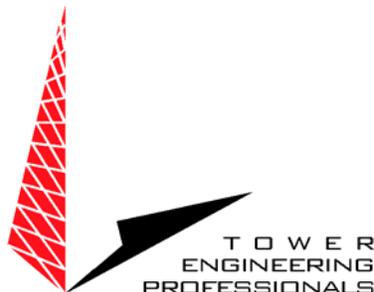
**CRITCHER-WILKERSON ROAD
ROXBORO, NC
(PERSON COUNTY)**

**LATITUDE: N 36° 23' 00.256" ±
LONGITUDE: W 79° 00' 3.527" ±**

**DATE INSPECTED: AUGUST 23, 2011
DATE NEPA ISSUED: JANUARY 6, 2012**

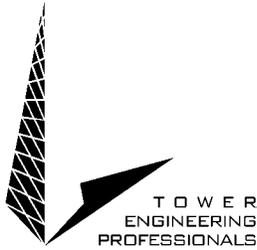


**COMPLETED BY:
George T. Swearingen, III
Of**



**Project Site Specific
NEPA Compliance Checklist
North Carolina Highway Patrol Site
Roxboro
HP-1234**

January 6, 2012



Ms. Tanya Luter
VIPER Project Manager
North Carolina State Highway Patrol
3318 Garner Road
Raleigh, NC 27610

Re: NEPA Checklist
NC Highway Patrol Site # HP-1234
Roxboro Site
Critchler-Wilkerson Road
Roxboro, Person County, NC

Dear Ms. Luter:

Tower Engineering Professionals, Inc. (TEP) conducted a FCC Compliance NEPA Checklist (NEPA) for the proposed lease area associated with the proposed **280-ft (295-ft with appurtenances) AGL Self Support Communications Tower** for the site designated as **Roxboro (NC Highway Patrol Site # HP-1234)**, and is pleased to submit the findings to the North Carolina Highway Patrol. The proposed site is located on a parcel of real estate in **Person County, NC**. The parent property and the adjacent properties were occupied by a mix of agricultural, undeveloped forested, institutional and residential land uses at the time of the site inspection.

The NEPA Checklist research conducted by TEP indicates that the site is **not**: located in an officially designated wilderness area; located in an officially designated wildlife preserve; located in a floodplain; located in a residential zoned area and required to be equipped with high intensity white lights; and will **not**: affect threatened or endangered species or their designated critical habitats; affect districts, sites, buildings, structures or objects listed or eligible for listing in the National Register of Historic Places; affect Indian religious sites; or involve significant changes to surface features.

TEP, with the assistance of Environmental Services, Inc. conducted the Section 106 of the NHPA portion of the NEPA checklist and the Native American consultation. TEP filed the proposed **Roxboro** site with the FCC Tower Construction Notification System (TCNS) on **12/2/11** and was assigned TCNS # **81278**. TEP has received correspondence from all of the applicable tribes with known ancestral and/or aboriginal rights to **Person County, NC** as identified by the FCC TCNS.

The results of the NEPA Checklist conducted by TEP conclude that no further investigation (i.e. NEPA Environmental Assessment) is warranted or recommended for the **Roxboro Site**.

Sincerely

A handwritten signature in black ink, appearing to read "George T. Swearingen, III", with a stylized flourish at the end.

Tower Engineering Professionals, Inc.
George T. Swearingen, III
Environmental Manager

Section I – NEPA Checklist

FCC NEPA COMPLIANCE AUDIT CHECKLIST



ROXBORO SITE 280-FT SELF SUPPORT TOWER NC HIGHWAY PATROL – DEPARTMENT OF CRIME CONTROL ROXBORO, NC PERSON COUNTY

1. Is the proposed facility located in an officially designated wilderness area? No
2. Is the proposed facility located in an officially designated wildlife preserve? No
3. Will the proposed facility likely affect threatened or endangered species or designated critical habitats; or likely jeopardize the continued existence of any proposed endangered or threatened species; or likely result in the destruction or adverse modification of proposed critical habitats (as determined by the Endangered Species Act or 1973)? No
4. Will the proposed facility affect districts, sites, buildings, structures or objects significant in American history, architecture, archeology, engineering or culture, that are listed (or eligible for listing) in the National Register of Historic Places? No
5. Will the proposed facility affect Indian religious sites? No
6. Is the proposed facility located in a floodplain? No
7. Will construction of the proposed facility involve significant change in surface features (e.g., wetland fill, deforestation or water diversion)? No
8. Is the proposed facility located in a residential neighborhood and is required to be equipped with high intensity white lights (as defined by local zoning law)? No

If any of the above questions result in an answer of “yes”, then construction may not start on any of these sites prior to receipt of a finding of no significant impact by FCC.

RF Exposure Screening Under NEPA

- 9A. Will the proposed NON-ROOFTOP facility equal or exceed total power (of all channels) of 2000 watts ERP (3280 Watts EIRP) and have antennas located less than 10 meters above ground level? No
- 9B. Will the proposed ROOFTOP facility equal or exceed total power (of all channels) of 2000 watts ERP (3280 Watts EIRP)? N/A

If “yes” is the answer to either of the two RF exposure questions, an evaluation must be performed to determine if the North Carolina Highway Patrol exceeds the FCC’s exposure limits.

TOWER ENGINEERING PROFESSIONALS, INC.	Date: January 6, 2012
Print Name: George T. Swearingen, III	Signature:

The following provides additional information concerning each item on the checklist.

1. Designated Wilderness Areas – Based on a review of the National Wilderness Institute Map of Wilderness Areas, Wild & Scenic Rivers, National Natural Landmarks and UN Biosphere Reserves, dated 1995, and the Wilderness.net - U.S. National Wilderness Preservation System Map, the proposed tower site is not located within an officially designated wilderness area.
2. Designated Wildlife Preserves – Based on a review of the US Fish and Wildlife Service: National Wildlife Refuge System Map, dated September 30, 2004, the proposed tower site is not located within an officially designated wildlife preserve.
- 3A. Listed Threatened or Endangered Species or Designated Critical Habitats - Based on a review of the element occurrences of federally listed threatened and endangered species and their critical habitats within a 2-mile radius of the proposed tower site, as obtained from the North Carolina Department of Environment and Natural Resources: Natural Heritage Program Online Virtual Workroom, an on-site investigation, and correspondence with the USFWS-Raleigh Field Office, no listed threatened or endangered species occur at the proposed tower site. In addition, no critical habitats were identified on the proposed tower site. Therefore, it is not likely that the construction of the proposed tower will affect threatened or endangered species or their critical habitats.
- 3B. Proposed Threatened or Endangered Species or Proposed Critical Habitats - Based on a review of the element occurrences of federally listed threatened and endangered species and their critical habitats within a 2-mile radius of the proposed tower site, as obtained from the North Carolina Department of Environment and Natural Resources: Natural Heritage Program Online Virtual Workroom, an on-site investigation, and correspondence with the USFWS-Raleigh Field Office, none of the proposed threatened or endangered species occur on the proposed tower site. The proposed tower site is not located within an area qualifying as proposed critical habitats. Further, the construction of the proposed tower is not likely to adversely impact proposed threatened or endangered species or their critical habitats.
4. Historical Places – Based on the results of our coordination with the Person County Historical Society, Person County Planning and Zoning, and the North Carolina Department of Cultural Resources – State Historic Preservation Office (NCDCCR-SHPO), the construction of the proposed tower will “Not Adversely Affect” properties listed on or eligible for listing on the National Register of Historic Places within the 0.75-mile Area of Potential Effect (APE).
5. Indian Religious Sites – Based upon a review of available information obtained from the North Carolina Department of Cultural Resources, the Native American Consultative Database, the Bureau of Indian Affairs-Indian Reservations in the Continental United States, dated 5/96, and the responses to the FCC-Tower Construction Notification ID #81278, no known Indian religious sites will be affected by the proposed tower site.
6. Floodplains – Based on a review of the floodplain map of the area (FIRM Community-Panel No. *3710999500J, * indicates that the panel was not printed.) According to the FEMA FIRM map of Person County, NC; a panel not printed indicates that there are “No Special Flood Hazard Areas” located within the limits of the panel; therefore, the proposed tower site is not located within a special flood hazard area as determined by FEMA.
7. Surface Features – Based on our on-site investigation and a review of the National Wetland Inventory map of the area, the proposed tower is not anticipated to result in a significant change or modification to surface features such as fill in jurisdictional wetlands, deforestation, or water diversion.
8. Zoning/High Intensity White Lights – The proposed tower is 280-feet (295-ft with appurtenances) AGL and the use of high intensity white lights should not be necessary. The proposed tower is anticipated to be equipped with a dual mode lighting system that utilizes medium intensity lights.
- 9A. Radio Frequency Emissions – Based on the specified elevation of the proposed antennas (>10 meters) and because the site will be located within a restricted area, no further study concerning radio frequency emissions is required.

Section II - FCC 620

Notification Date:

New Tower ("NT") Submission Packet

See instructions for

File Number:

public burden estimates

General Information

1) (Select only one) (NE) NE – New UA – Update of Application WD – Withdrawal of Application	
2) If this application is for an Update or Withdrawal, enter the file number of the pending application currently on file.	File Number:

Applicant Information

3) FCC Registration Number (FRN): 0001913888
4) Name: North Carolina Highway Patrol - Department of Crime Control and Public Safety

Contact Name

5) First Name: Tanya	6) MI:	7) Last Name: Luter	8) Suffix:
9) Title: VIPER Project Manager			

Contact Information

10) P.O. Box:	And /Or	11) Street Address: 3318 Garner Road, Building Two	
12) City: Raleigh		13) State: NC	14) Zip Code: 27610
15) Telephone Number: (919)662-4440		16) Fax Number: (919)662-4444	
17) E-mail Address: tluter@NCSHP.org			

Consultant Information

18) FCC Registration Number (FRN): 0018456939
19) Name: Environmental Services, Inc.

Principal Investigator

20) First Name: Terri	21) MI:	22) Last Name: Russ	23) Suffix:
24) Title: RPA, Senior Scientist III			

Principal Investigator Contact Information

25) P.O. Box:	And /Or	26) Street Address: 524 South New Hope Road	
27) City: Raleigh		28) State: NC	29) Zip Code: 27610
30) Telephone Number: (919)212-1760		31) Fax Number: (919)212-1708	
32) E-mail Address: truss@ESINC.CC			

Professional Qualification

33) Does the Principal Investigator satisfy the Secretary of the Interior's Professional Qualification Standards?	(<input checked="" type="checkbox"/>) <u>Y</u> es (<input type="checkbox"/>) <u>N</u> o
34) Areas of Professional Qualification: (<input checked="" type="checkbox"/>) Archaeologist (<input type="checkbox"/>) Architectural Historian (<input type="checkbox"/>) Historian (<input type="checkbox"/>) Architect (<input type="checkbox"/>) Other (Specify) _____	

Additional Staff

35) Are there other staff involved who meet the Professional Qualification Standards of the Secretary of the Interior?	(<input type="checkbox"/>) <u>Y</u> es (<input checked="" type="checkbox"/>) <u>N</u> o
--	---

If "YES," complete the following:

36) First Name:	37) MI:	38) Last Name:	39) Suffix:
40) Title:			
41) Areas of Professional Qualification: (<input type="checkbox"/>) Archaeologist (<input type="checkbox"/>) Architectural Historian (<input type="checkbox"/>) Historian (<input type="checkbox"/>) Architect (<input type="checkbox"/>) Other (Specify) _____			

Site Information

Tower Construction Notification System

1) TCNS Notification Number: **81278**

Site Information

2) Site Name: **Roxboro**

3) Site Address: **Critcher-Wilkerson Road**

4) City: **Roxboro**

5) State: **NC**

6) Zip Code: **27573**

7) County/Borough/Parish: **PERSON**

8) Nearest Crossroads: **Critcher-Wilkerson Road and Wesleyan Road**

9) NAD 83 Latitude (DD-MM-SS.S): **36-23-00.3**

() N or () S

10) NAD 83 Longitude (DD-MM-SS.S): **079-00-03.5**

() E or () W

Tower Information

11) Tower height above ground level (include top-mounted attachments such as lightning rods): **89.9** _____ () Feet () Meters

12) Tower Type (Select One):

() Guyed lattice tower

() Self-supporting lattice

() Monopole

() Other (Describe):

Project Status

13) Current Project Status (Select One):

() Construction has not yet commenced

() Construction has commenced, but is not completed

Construction commenced on: _____

() Construction has been completed

Construction commenced on: _____

Construction completed on: _____

Determination of Effect

14) Direct Effects (Select One):

- No Historic Properties in Area of Potential Effects (APE)
- No Effect on Historic Properties in APE
- No Adverse Effect on Historic Properties in APE
- Adverse Effect on one or more Historic Properties in APE

15) Visual Effects (Select One):

- No Historic Properties in Area of Potential Effects (APE)
- No Effect on Historic Properties in APE
- No Adverse Effect on Historic Properties in APE
- Adverse Effect on one or more Historic Properties in APE

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?	(<input checked="" type="checkbox"/>) <u>Yes</u> (<input type="checkbox"/>) <u>No</u>
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>81278</u> Number of Tribes/NHOs: <u>5</u>	
2b) Tribes/NHOs contacted through an alternate system: Number of Tribes/NHOs: <u>0</u>	

Tribes/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Catawba Indian Nation Cultural Preservation Project

Contact Name

5) First Name: Dr. Wenonah	6) MI: G	7) Last Name: Haire	8) Suffix:
9) Title: THPO and Executive Director			

Dates & Response

10) Date Contacted <u>12/08/2011</u>	11) Date Replied _____
(<input checked="" type="checkbox"/>) No Reply	
(<input type="checkbox"/>) Replied/No Interest	
(<input type="checkbox"/>) Replied/Have Interest	
(<input type="checkbox"/>) Replied/Other	

Tribes/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Cherokee Nation

Contact Name

5) First Name: Richard	6) MI: L	7) Last Name: Allen	8) Suffix:
9) Title: Policy Analyst			

Dates & Response

10) Date Contacted <u>12/07/2011</u>	11) Date Replied _____
(<input checked="" type="checkbox"/>) No Reply	
(<input type="checkbox"/>) Replied/No Interest	
(<input type="checkbox"/>) Replied/Have Interest	
(<input type="checkbox"/>) Replied/Other	

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?	(<input checked="" type="checkbox"/>) <u>Yes</u> (<input type="checkbox"/>) <u>No</u>
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>81278</u> Number of Tribes/NHOs: <u>5</u>	
2b) Tribes/NHOs contacted through an alternate system: Number of Tribes/NHOs: <u>0</u>	

Tribes/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Eastern Shawnee Tribe of Oklahoma

Contact Name

5) First Name: Jo Ann	6) MI:	7) Last Name: Beckham	8) Suffix:
9) Title: Administrative Assistant			

Dates & Response

10) Date Contacted <u>12/07/2011</u>	11) Date Replied _____
(<input checked="" type="checkbox"/>) No Reply	
(<input type="checkbox"/>) Replied/No Interest	
(<input type="checkbox"/>) Replied/Have Interest	
(<input type="checkbox"/>) Replied/Other	

Tribes/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Shawnee Tribe

Contact Name

5) First Name: Kim	6) MI:	7) Last Name: Jumper	8) Suffix:
9) Title: THPO			

Dates & Response

10) Date Contacted <u>12/08/2011</u>	11) Date Replied _____
(<input checked="" type="checkbox"/>) No Reply	
(<input type="checkbox"/>) Replied/No Interest	
(<input type="checkbox"/>) Replied/Have Interest	
(<input type="checkbox"/>) Replied/Other	

Tribal/NHO Involvement

1) Have Indian Tribes or Native Hawaiian Organizations (NHOs) been identified that may attach religious and cultural significance to historic properties which may be affected by the undertaking within the APEs for direct and visual effects?	(<input checked="" type="checkbox"/>) <u>Yes</u> () <u>No</u>
2a) Tribes/NHOs contacted through TCNS Notification Number: <u>81278</u> Number of Tribes/NHOs: <u>5</u>	
2b) Tribes/NHOs contacted through an alternate system: Number of Tribes/NHOs: <u>0</u>	

Tribe/NHO Contacted Through TCNS

3) Tribe/NHO FRN:
4) Tribe/NHO Name: Tuscarora Nation

Contact Name

5) First Name: Leo	6) MI: R	7) Last Name: Henry	8) Suffix:
9) Title: Chief			

Dates & Response

10) Date Contacted <u>12/08/2011</u>	11) Date Replied _____
<input checked="" type="checkbox"/> No Reply <input type="checkbox"/> Replied/No Interest <input type="checkbox"/> Replied/Have Interest <input type="checkbox"/> Replied/Other	

Other Tribes/NHOs Contacted

Tribe/NHO Information

1) FCC Registration Number (FRN):
2) Name:

Contact Name

3) First Name:	4) MI:	5) Last Name:	6) Suffix:
7) Title:			

Contact Information

8) P.O. Box:	And /Or	9) Street Address:	
10) City:		11) State:	12) Zip Code:
13) Telephone Number:		14) Fax Number:	
15) E-mail Address:			
16) Preferred means of communication: <input type="checkbox"/> E-mail <input type="checkbox"/> Letter <input type="checkbox"/> Both			

Dates & Response

17) Date Contacted _____	18) Date Replied _____
<input type="checkbox"/> No Reply	
<input type="checkbox"/> Replied/No Interest	
<input type="checkbox"/> Replied/Have Interest	
<input type="checkbox"/> Replied/Other	

Historic Properties

Properties Identified

1) Have any historic properties been identified within the APEs for direct and visual effect?	(<input checked="" type="checkbox"/>) <u>Y</u> es (<input type="checkbox"/>) <u>N</u> o
2) Has the identification process located archaeological materials that would be directly affected, or sites that are of cultural or religious significance to Tribes/NHOs?	(<input type="checkbox"/>) <u>Y</u> es (<input checked="" type="checkbox"/>) <u>N</u> o
3) Are there more than 10 historic properties within the APEs for direct and visual effect? If "Yes", you are required to attach a Cultural Resources Report in lieu of adding the Historic Property below.	(<input type="checkbox"/>) <u>Y</u> es (<input checked="" type="checkbox"/>) <u>N</u> o

Historic Property

4) Property Name: Roxboro National Guard Armory
5) SHPO Site Number: PR0297

Property Address

6) Street Address: Burlington Road		
7) City: Roxboro	8) State: NC	9) Zip Code: 27573
10) County/Borough/Parish: PERSON		

Status & Eligibility

11) Is this property listed on the National Register? Source: _____	(<input type="checkbox"/>) <u>Y</u> es (<input checked="" type="checkbox"/>) <u>N</u> o
12) Is this property eligible for listing on the National Register? Source: <u>SHPO GIS research indicated the site is a 1960 B-Coffey and Olsen Type Armory listed as DOE (determination of eligibility) in 2010.</u>	(<input checked="" type="checkbox"/>) <u>Y</u> es (<input type="checkbox"/>) <u>N</u> o
13) Is this property a National Historic Landmark?	(<input type="checkbox"/>) <u>Y</u> es (<input checked="" type="checkbox"/>) <u>N</u> o

14) Direct Effects (Select One): <input checked="" type="checkbox"/> No Effect on this Historic Property in APE <input type="checkbox"/> No Adverse Effect on this Historic Property in APE <input type="checkbox"/> Adverse Effect on this Historic Property in APE
15) Visual Effects (Select One): <input type="checkbox"/> No Effect on this Historic Property in APE <input checked="" type="checkbox"/> No Adverse Effect on this Historic Property in APE <input type="checkbox"/> Adverse Effect on this Historic Property in APE

Local Government Involvement

Local Government Agency

1) FCC Registration Number (FRN):

2) Name: **Person County Planning and Zoning Department**

Contact Name

3) First Name: **To Whom**

4) MI:

5) Last Name: **It May Concern**

6) Suffix:

7) Title:

Contact Information

8) P.O. Box:

And
/Or

9) Street Address: **325 S. Morgan St. # B**

10) City: **Roxboro**

11) State: **NC**

12) Zip Code: **27573-5278**

13) Telephone Number: **(111)111-1111**

14) Fax Number:

15) E-mail Address: **unknown@unknown.com**

16) Preferred means of communication:

() E-mail

() Letter

() Both

Dates & Response

17) Date Contacted **12/06/2011**

18) Date Replied _____

() No Reply

() Replied/No Interest

() Replied/Have Interest

() Replied/Other

Additional Information

19) Information on local government's role or interest (optional):

No reply has been received to date.

Other Consulting Parties

Other Consulting Parties Contacted

1) Has any other agency been contacted and invited to become a consulting party?	(<input checked="" type="checkbox"/>) <u>Y</u> es (<input type="checkbox"/>) <u>N</u> o
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Consulting Party

2) FCC Registration Number (FRN):
3) Name: Person County Historical Society

Contact Name

4) First Name: To Whom	5) MI:	6) Last Name: It May Concern	7) Suffix:
8) Title:			

Contact Information

9) P.O. Box: P.O. Box 887	And /Or	10) Street Address:	
11) City: Roxboro	12) State: NC	13) Zip Code: 27573	
14) Telephone Number: (111)111-1111		15) Fax Number:	
16) E-mail Address: unknown@unknown.com			
17) Preferred means of communication: (<input type="checkbox"/>) E-mail (<input checked="" type="checkbox"/>) Letter (<input type="checkbox"/>) Both			

Dates & Response

18) Date Contacted 12/06/2011	19) Date Replied _____
(<input checked="" type="checkbox"/>) No Reply	
(<input type="checkbox"/>) Replied/No Interest	
(<input type="checkbox"/>) Replied/Have Interest	
(<input type="checkbox"/>) Replied/Other	

Additional Information

20) Information on other consulting parties' role or interest (optional): No reply has been received to date.

Designation of SHPO/THPO

1) Designate the Lead State Historic Preservation Officer (SHPO) or Tribal Historic Preservation Officer (THPO) based on the location of the tower.

SHPO/THPO

Name: <u>NC Historic Preservation Office (Deputy SHPO)</u>
--

2) You may also designate up to three additional SHPOs/THPOs if the APEs include multiple states. If the APEs include other countries, enter the name of the National Historic Preservation Agency and any state and provincial Historic Preservation Agency.

SHPO/THPO Name: _____
SHPO/THPO Name: _____
SHPO/THPO Name: _____

Certification

I certify that all representations on this FCC Form 620 Submission Packet and the accompanying attachments are true, correct, and complete.			
Party Authorized to Sign			
First Name: <u>Kyle</u>	MI: <u>W</u>	Last Name: <u>Crawford</u>	Suffix:
Signature: <u>[Handwritten Signature]</u>			Date: <u>12-21-11</u>
FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID.			
WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, Section 1001) AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).			

**ROXBORO TOWER, PERSON COUNTY, NORTH CAROLINA
ARCHAEOLOGICAL SURVEY LETTER REPORT**

**By: Terri Russ, RPA
Environmental Services, Inc.
524 South New Hope Road
Raleigh, NC 27610**

Tower Engineering Professionals, Inc., (TEP) is assisting in the development of a telecommunications facility in Person County, North Carolina. The project area consists of the proposed 280 foot self-supported monopole tower located within an approximately 2,250 square foot fenced compound and an approximately 150-meter (492-feet) long, 12-foot wide access drive. The proposed compound and tower site are accessed from Critcher-Wilkerson Road in the town of Roxboro, Person County, North Carolina (**Figure 1**).

TEP requested that Environmental Services, Inc., (ESI) conduct an archaeological survey of the proposed tower site to meet the requirements of Section 106 of the *National Historic Preservation Act* (NHPA) and the Federal Communications Commission (FCC) Cell Tower Programmatic Agreement of 5 October 2004. This letter report summarizes the results of ESI's archaeological survey.

Environmental Setting

Vegetation at the proposed tower compound is primarily hardwood, with a transition to pine forest along the access road. The project area is located approximately 200 meters southeast of an unnamed tributary which drains into the North Flat River. Map units (soil series) are named for the major soil or soils within the unit, but may have minor inclusions of other soils (NRCS 2011). The single soil unit mapped in the project area is listed in **Table 1**.

Table 1: Project Area Soils

Soil Name	Code	Slope	Drainage	Location
Appling Sandy Loam	ApB	2-6%	Well Drained	Interfluves

Background Research

Research at the North Carolina Office of State Archaeology (OSA) revealed that no previously recorded archaeological sites were located within or immediately adjacent to the project area.

Results of the Present Investigation

ESI archaeologist Terri Russ conducted an archaeological survey of the project area on 5 December 2011. This included pedestrian inspection and shovel testing of the project area. Photos of the project area are shown as **Figures 2-3**.

Three shovel tests were placed at the location of the proposed tower compound. Four additional shovel tests were placed at the approximate location of the access driveway and turnaround area.

(STs 1-7; **Figure 4**). Soils throughout the project area consisted of 10 to 25 centimeters of dark gray rocky sandy loam over 10 to 25 centimeters of light grayish brown rocky clay loam. Subsoil was a yellowish brown clay. No cultural materials were recovered from any of the shovel tests.

Summary and Conclusions

ESI conducted an archaeological survey of the proposed tower compound off of Critcher-Wilkerson Road in Roxboro, Person County, North Carolina, for TEP in December 2011. No archaeological sites were documented within the proposed cell tower compound or within the access and utility easement. It is recommended that this project be allowed to proceed without concern for impacts to significant cultural resources. Should the boundary of the proposed tower site be expanded or moved, additional archaeological investigation may be necessary, as determined in consultation with the North Carolina State Historic Preservation Office (SHPO) or per the FCC Programmatic Agreement.

References Cited

Natural Resources Conservation Services (NRCS)
2011 <http://websoilsurvey.nrcs.usda.gov/app/> Accessed 2 December 2011.

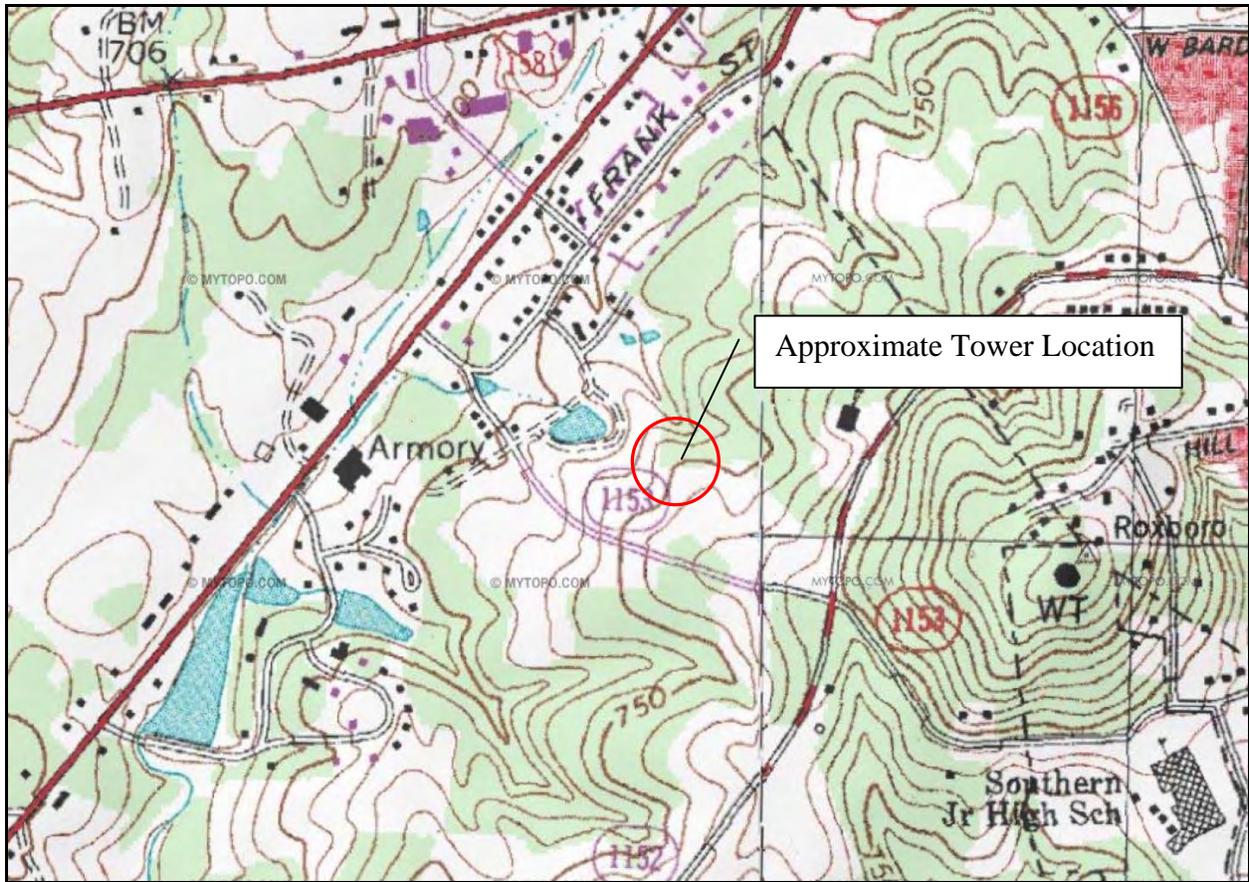


Figure 1: Project Location (Olive Hill, NC USGS 7.5 minute quadrangle).



Figure 2: View of proposed tower compound, facing Northeast.



Figure 3: View of proposed access road, facing South.



ENVIRONMENTAL SERVICES, INC.

TERRI RUSS, RPA – SENIOR SCIENTIST III

Education Level:

M.A. Anthropology.
East Carolina University.
2002

A.A.S. Archaeology/
Historic Preservation.
Randolph Community
College.
1999

B.A. Anthropology.
University of North
Carolina at Chapel Hill.
1995

Years Experience:

14

ESI Office:

Raleigh

PROFESSIONAL EXPERIENCE SUMMARY

Ms. Russ is an archaeologist with over fourteen years experience in cultural resource management and academic archaeology. Previous cultural resource management projects include Phase I archaeological surveys, Phase II archaeological test investigations, and Phase III site mitigation for private, municipal, state, and federal clients.

RESPONSIBILITIES WITH ENVIRONMENTAL SERVICES, INC.

Ms. Russ is responsible for all phases of cultural resource projects management including background research, field investigations, artifact analysis and curation, and the preparation of final reports. Specialties include Phase I archaeological survey and site assessment, Phase II testing of archaeological sites, and Phase III mitigation and data recovery of archaeological sites.

PRIOR EXPERIENCE

2004-Present	ENVIRONMENTAL SERVICES, INC.
1998-2004	TRC GARROW ASSOCIATES, INC.
2003	LOUIS BERGER GROUP.
2002	COASTAL CAROLINA RESEARCH.
2000-2002	PHELPS ARCHAEOLOGY LABORATORY, EAST CAROLINA UNIVERSITY.
1997	U.S. FOREST SERVICE

PROFESSIONAL AFFILIATIONS

Registered Professional Archaeologist (RPA)
Southeastern Archaeological Conference (SEAC)
Society for Historical Archaeology (SHA)
North Carolina Archaeological Council (NCAC)
North Carolina Archaeological Society (NCAS)
NCAS President (2007-2009)
NCAS Board of Directors (2001-2003, 2005-2007)
NCAS Coastal Plains Chapter Secretary (2000-2002)

REPRESENTATIVE PROJECT EXPERIENCE

Archaeological Survey, US 17 Jacksonville to New Bern, Jones and Onslow counties, North Carolina
Archaeological Survey, Catawba River WTP and Reservoir, Lancaster County, South Carolina
Archaeological Survey, Honey Hill Analysis Area, Francis Marion National Forest, Berkeley and Charleston counties, South Carolina
Archaeological Survey of the K&M Landfill, Pickens and Gilmer Counties, Georgia
Archaeological Testing and Data Recovery of 38LA560, Edenmoor, Lancaster County, South Carolina
Archaeological Data Recovery of the Windsor Site (31BR201/201**), US 17 Windsor Bypass, Bertie County, North Carolina
Archaeological Data Recovery of 9BI132, 9BI133, and 9BI134, Cherokee Brick and Tile Company, Bibb County, Georgia
Archaeological and Architectural Survey and Site Relocation: ENCNG Distribution Lines. Multiple counties, North Carolina.
Architectural Survey, Saluda Tower. Polk and Henderson counties, North Carolina.

REPRESENTATIVE PUBLICATIONS

Selected Technical Reports

- 2010 *Archaeological Survey and Evaluation of the US 17 Improvements from Jacksonville to New Bern, Jones and Onslow Counties, North Carolina.* Environmental Services, Inc. Report of Investigations No.1358, Raleigh, North Carolina.
- 2008 *Archaeological Data Recovery of the Windsor Site (31BR201/201**), US 17 Windsor Bypass, Bertie County, North Carolina.* Environmental Services, Inc., Raleigh, North Carolina.
- 2006 *An Intensive Cultural Resource Investigation Arlington Shores, Pamlico County, North Carolina.* Environmental Services, Inc. Report of Investigations No. 899, Raleigh, North Carolina.

Other Papers and Conference Presentations

- 2008 Sandy Point: A Changing Historical Landscape. Poster Presented at the 65th Annual Meeting of the Southeastern Archaeological Conference, Charlotte, North Carolina.
- 2006 Review of Grave Intentions: A Comprehensive Guide to Preserving Historic Cemeteries in Georgia. Christine Van Voorhies, Georgia Department of Natural Resources. Historical Archaeology, Vol. 40, No. 2.
- 2006 Review of Mortuary Monuments and Burial Grounds of the Historic Period. Harold Mytum, Kluwer/Plenum Publishers. Historical Archaeology, Vol. 40, No. 2.
- 2002 *Uwharrie Ceramic Distribution in the Piedmont.* Unpublished M.A. Thesis. Department of Anthropology. East Carolina University. Greenville, North Carolina.

GENERAL NOTES:

1. ALL REFERENCES TO OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED NORTH CAROLINA HIGHWAY PATROL OR IT'S DESIGNATED REPRESENTATIVE.
2. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE OF NORTH CAROLINA.
3. WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE NORTH CAROLINA BUILDING CODE, 2009 EDITION.
4. UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
5. ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERCEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
6. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND IT'S COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
7. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATIONS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE PROCEDURES.
8. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
10. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE RESIDENT LEASING AGENT FOR APPROVAL.
11. BILL OF MATERIALS AND PART NUMBERS LISTED ON CONSTRUCTION DRAWINGS ARE INTENDED TO AID CONTRACTOR. CONTRACTOR SHALL VERIFY PARTS AND QUANTITIES WITH MANUFACTURER PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
12. ALL PERMITS THAT MUST BE OBTAINED ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
13. 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER.
14. THE CONTRACTOR SHALL REWORK (DRY, SCARIFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SUBGRADE IN IT PRESENT STATE. AFTER REWORKING, IF THE MATERIAL REMAINS UNSUITABLE, THE CONTRACTOR SHALL UNDERCUT THIS MATERIAL AND REPLACE WITH APPROVED MATERIAL. ALL SUBGRADES SHALL BE PROOFROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO PAVING. ANY SOFTER MATERIAL SHALL BE REWORKED OR REPLACED.
15. THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL PIPES, DITCHES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO MAINTAIN DRAINAGE STRUCTURE IN OPERABLE CONDITION.
16. ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE YEAR FROM ACCEPTANCE DATE.
17. ALL BUILDING DIMENSIONS SHALL BE VERIFIED WITH THE PLANS (LATEST REVISION) PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE DISCOVERED. THE OWNER SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.

PLANS PREPARED FOR:

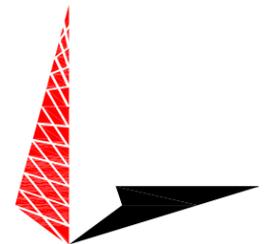


3318 GARNER ROAD, BLDG. 2
 RALEIGH, NC 27607
 OFFICE: (919) 662-4440

PROJECT INFORMATION:

ROXBORO
SITE # HP-1234
SCO ID # 10-08820-01D
 CRITCHER-WILKERSON ROAD
 ROXBORO, NC 27573
 (PERSON COUNTY)

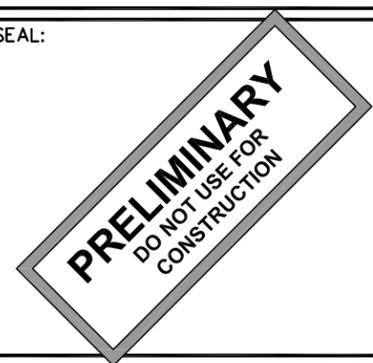
PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
 3703 JUNCTION BOULEVARD
 RALEIGH, NC 27603-5263
 OFFICE: (919) 661-6351
 www.tepgroup.net

N.C. LICENSE # C-1794

SEAL:



1	10-31-11	PRELIM ZONING - FALL ZONE
0	09-29-11	PRELIMINARY ZONING
REV	DATE	ISSUED FOR:

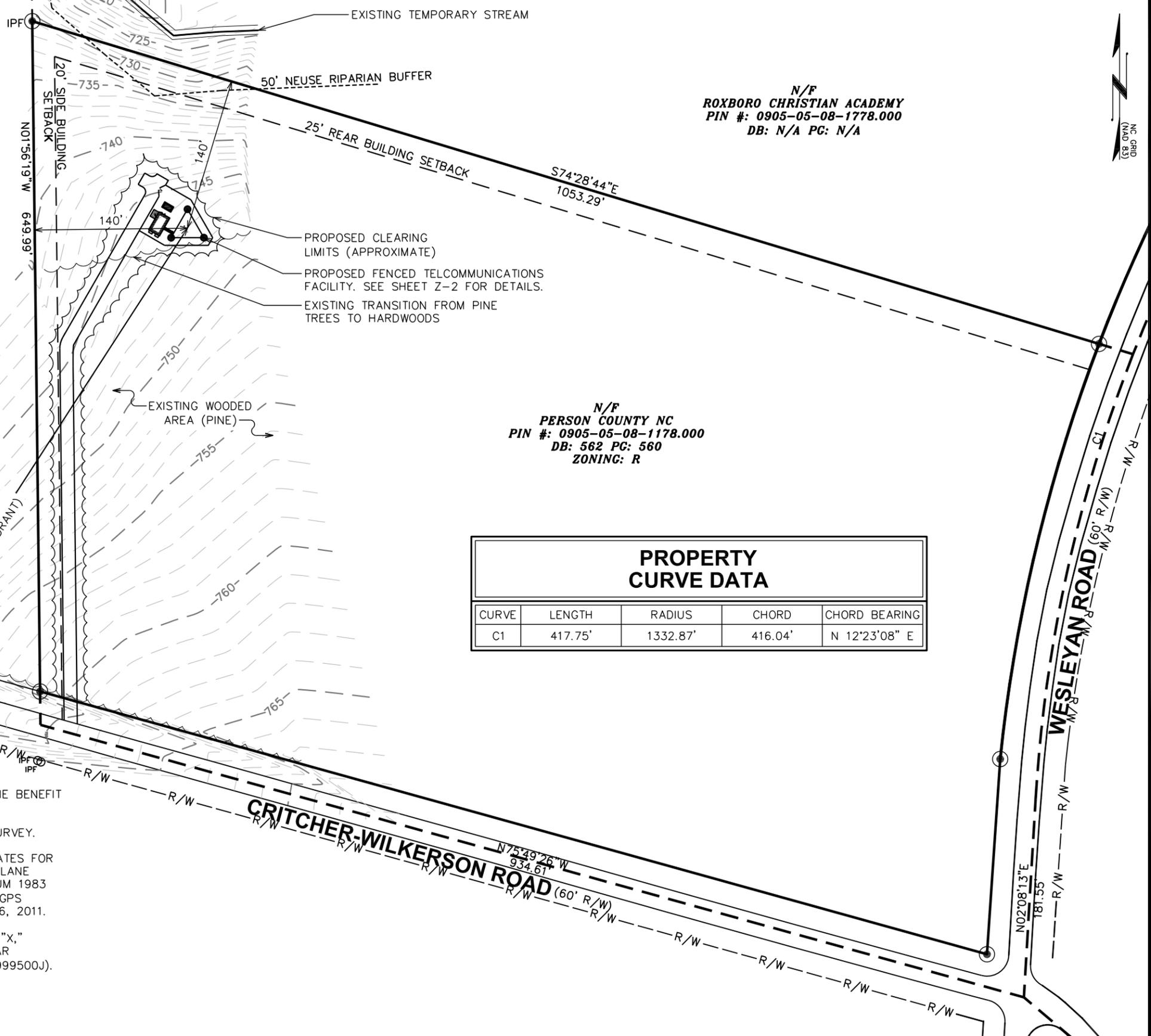
DRAWN BY: TRG CHECKED BY: JBG

SHEET TITLE:
PROJECT NOTES

SHEET NUMBER: N-1	REVISION: 1
	TEP #: 113097

LEGEND

	WATER VALVE
	FIRE HYDRANT
	EXIST. PROPERTY LINE
	ADJ. PROPERTY LINE
	EXIST. UTILITY POLE
	EXIST. TELCO PEDESTAL
	EXIST. CONTOUR LINE
	EDGE OF PAVEMENT
	OVERHEAD WIRE
	CHAIN LINK FENCE
	EXISTING TREE LINE
	IRON ROD FOUND
	PROPERTY CORNER



N/F
ROXBORO CHRISTIAN ACADEMY
 PIN #: 0905-05-08-1778.000
 DB: N/A PG: N/A

N/F
PERSON COUNTY NC
 PIN #: 0905-05-08-1178.000
 DB: 562 PG: 560
 ZONING: R

N/F
WILKERSON HOLDING LTD. PTN.
 PIN #: 9995-08-98-1617.000
 DB: 292 PG: 406

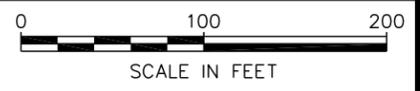
PROPERTY CURVE DATA				
CURVE	LENGTH	RADIUS	CHORD	CHORD BEARING
C1	417.75'	1332.87'	416.04'	N 12°23'08" E

NOTES:

1. THIS PLAN HAS BEEN PREPARED WITHOUT THE BENEFIT OF A REPORT OF TITLE.
2. THIS PLAN DOES NOT REPRESENT A TITLE SURVEY.
3. THE BASIS OF THE MERIDIANS AND COORDINATES FOR THIS PLAT IS THE NORTH CAROLINA STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (NCSPCS NAD 83), BASED ON DIFFERENTIAL GPS OBSERVATIONS PERFORMED ON SEPTEMBER 16, 2011.
4. THIS PROPERTY IS LOCATED IN FLOOD ZONE "X," AREAS DETERMINED TO BE OUTSIDE 500-YEAR FLOODPLAIN (FEMA/FIRM MAP NUMBER 3710999500J).
6. SUBJECT PIN: 0905-05-08-1178.000
7. PROPERTY OWNER:
PERSON COUNTY, NC

SITE PLAN

SCALE: 1" = 100'



PLANS PREPARED FOR:

3318 GARNER ROAD, BLDG. 2
 RALEIGH, NC 27607
 OFFICE: (919) 662-4440

PROJECT INFORMATION:

ROXBORO
SITE # HP-1234
SCO ID # 10-08820-01D

CRITCHER-WILKERSON ROAD
 ROXBORO, NC 27573
 (PERSON COUNTY)

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
 3703 JUNCTION BOULEVARD
 RALEIGH, NC 27603-5263
 OFFICE: (919) 661-6351
 www.tepgroup.net
 N.C. LICENSE # C-1794

SEAL:

PRELIMINARY
 DO NOT USE FOR
 CONSTRUCTION

REV	DATE	ISSUED FOR:
1	10-31-11	PRELIM ZONING - FALL ZONE
0	09-29-11	PRELIMINARY ZONING

DRAWN BY: TRG CHECKED BY: JBG

SHEET TITLE:

SITE PLAN

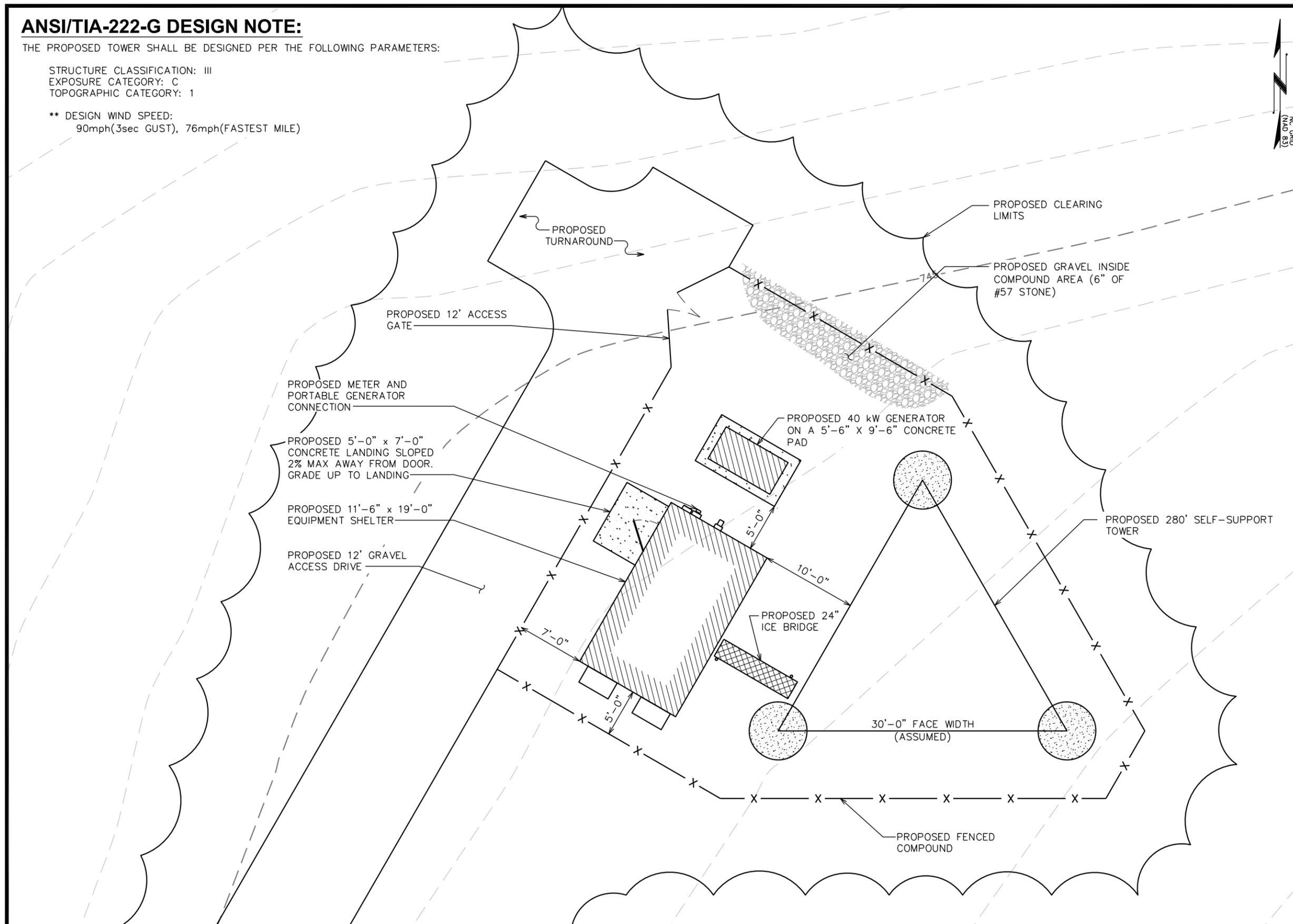
SHEET NUMBER: Z-1	REVISION: 1 TEP #: 113097
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ANSI/TIA-222-G DESIGN NOTE:

THE PROPOSED TOWER SHALL BE DESIGNED PER THE FOLLOWING PARAMETERS:

STRUCTURE CLASSIFICATION: III
 EXPOSURE CATEGORY: C
 TOPOGRAPHIC CATEGORY: 1

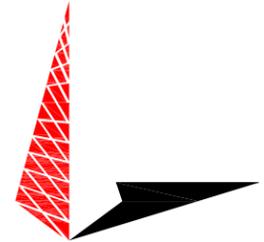
** DESIGN WIND SPEED:
 90mph(3sec GUST), 76mph(FATEST MILE)



PLANS PREPARED FOR:

 3318 GARNER ROAD, BLDG. 2
 RALEIGH, NC 27607
 OFFICE: (919) 662-4440

PROJECT INFORMATION:
ROXBORO
SITE # HP-1234
SCO ID # 10-08820-01D
 CRITCHER-WILKERSON ROAD
 ROXBORO, NC 27573
 (PERSON COUNTY)

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
 3703 JUNCTION BOULEVARD
 RALEIGH, NC 27603-5263
 OFFICE: (919) 661-6351
 www.tepgroup.net
 N.C. LICENSE # C-1794

SEAL:


REV	DATE	ISSUED FOR:
1	10-31-11	PRELIM ZONING - FALL ZONE
0	09-29-11	PRELIMINARY ZONING

DRAWN BY: TRG CHECKED BY: JBG

SHEET TITLE:
**COMPOUND
 DETAIL**

SHEET NUMBER:
Z-2

REVISION:
1
 TEP #: 113097

COMPOUND DETAIL
 SCALE: 1" = 10'





1. View facing north from Critcher-Wilkerson Road along the proposed access easement.



2. View facing north along the proposed access easement.



3. View facing southeast towards the proposed tower compound lease area.



4. View from the proposed tower compound lease area facing south-southwest along the proposed access drive.



Tower Construction Notification

[FCC](#) > [WTB](#) > Tower Construction Notification

[FCC Site Map](#)

Logged In: ([Log Out](#)) [Section 106](#)

Tower Construction Notification New Notification

[Notifications Home](#)

Your Notification has been successfully submitted to the FCC. The date for this Notification is 12/02/2011. Your Notification ID number is **81278**. Please make a note of this Notification ID — print out this page for your records. A confirmation of this submitted notification will also be emailed to the email address specified in your notification.

This system is intended to facilitate consultation under Section 106 of the National Historic Preservation Act by providing early notification of proposed construction to Tribes and State Historic Preservation officers. This system is not to be used in place of Section 106 consultation, and use of this notification system in itself does not satisfy parties' obligations with respect to historic preservation review under the Commission's rules.

Please note: the submission of this notification is NOT to be considered a submission for Antenna Structure Registration.

Tower Structures that require antenna structure registration based on FCC Rules 47 C.F.R. Part 17 must complete FCC Form 854 after FAA clearance is obtained.

ASR Help	ASR License Glossary - FAQ - Online Help - Documentation - Technical Support
ASR Online Systems	TOWAIR- CORES/ASR Registration - ASR Online Filing - Application Search - Registration Search
About ASR	Privacy Statement - About ASR - ASR Home

Federal Communications Commission
445 12th Street SW
Washington, DC 20554
[More FCC Contact Information...](#)

Phone: 1-877-480-3201
TTY: 1-717-338-2824
Fax: 1-866-418-0232
[Submit Help Request](#)

- [Web Policies & Privacy Statement](#)
- [Required Browser Plug-ins](#)
- [Customer Service Standards](#)
- [Freedom of Information Act](#)

Kyle Crawford

From: towernotifyinfo@fcc.gov
Sent: Friday, December 02, 2011 11:30 AM
To: Kyle Crawford
Subject: Proposed Tower Structure Info - Email ID #2925396

Dear Kyle W Crawford,

Thank you for submitting a notification regarding your proposed construction via the Tower Construction Notification System. Note that the system has assigned a unique Notification ID number for this proposed construction. You will need to reference this Notification ID number when you update your project's Status with us.

Below are the details you provided for the construction you have proposed:

Notification Received: 12/02/2011

Notification ID: 81278

Tower Owner Individual or Entity Name: TEP for the North Carolina Highway Patrol

Consultant Name: Kyle W Crawford

Street Address: 3703 Junction Blvd.

City: Raleigh

State: NORTH CAROLINA

Zip Code: 27603-5263

Phone: 919-661-6351

Email: kcrawford@tepgroup.net

Structure Type: UTOWER - Unguyed - Free Standing Tower

Latitude: 36 deg 23 min 00.3 sec N

Longitude: 79 deg 00 min 3.5 sec W

Location Description: Critcher-Wilkerson Road

City: Roxboro

State: NORTH CAROLINA

County: PERSON

Ground Elevation: 227.7 meters

Support Structure: 85.3 meters above ground level

Overall Structure: 89.9 meters above ground level

Overall Height AMSL: 317.6 meters above mean sea level

Kyle Crawford

From: towernotifyinfo@fcc.gov
Sent: Friday, December 09, 2011 3:01 AM
To: Kyle Crawford
Cc: kim.pristello@fcc.gov; diane.dupert@fcc.gov
Subject: NOTICE OF ORGANIZATION(S) WHICH WERE SENT PROPOSED TOWER CONSTRUCTION NOTIFICATION INFORMATION - Email ID #2925825

Dear Sir or Madam:

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this electronic mail message is to inform you that the following authorized persons were sent the information you provided through TCNS, which relates to your proposed antenna structure. The information was forwarded by the FCC to authorized TCNS users by electronic mail and/or regular mail (letter).

Persons who have received the information that you provided include leaders or their designees of federally-recognized American Indian Tribes, including Alaska Native Villages (collectively "Tribes"), Native Hawaiian Organizations (NHOs), and State Historic Preservation Officers (SHPOs). For your convenience in identifying the referenced Tribes and in making further contacts, the City and State of the Seat of Government for each Tribe and NHO, as well as the designated contact person, is included in the listing below. We note that Tribes may have Section 106 cultural interests in ancestral homelands or other locations that are far removed from their current Seat of Government. Pursuant to the Commission's rules as set forth in the Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA), all Tribes and NHOs listed below must be afforded a reasonable opportunity to respond to this notification, consistent with the procedures set forth below, unless the proposed construction falls within an exclusion designated by the Tribe or NHO. (NPA, Section IV.F.4).

The information you provided was forwarded to the following Tribes and NHOs who have set their geographic preferences on TCNS. If the information you provided relates to a proposed antenna structure in the State of Alaska, the following list also includes Tribes located in the State of Alaska that have not specified their geographic preferences. For these Tribes and NHOs, if the Tribe or NHO does not respond within a reasonable time, you should make a reasonable effort at follow-up contact, unless the Tribe or NHO has agreed to different procedures (NPA, Section IV.F.5). In the event such a Tribe or NHO does not respond to a follow-up inquiry, or if a substantive or procedural disagreement arises between you and a Tribe or NHO, you must seek guidance from the Commission (NPA, Section IV.G). These procedures are further set forth in the FCC's Declaratory Ruling released on October 6, 2005 (FCC 05-176).

1. Chief Leo R Henry - Tuscarora Nation - Via: Lewiston, NY - regular mail
Details: If the Applicant/tower builder receives no response from the Tuscarora Nation within 30 days after notification through TCNS, the Tuscarora Nation has no interest in participating in pre-construction review for the site. The Applicant/tower builder, however, must IMMEDIATELY notify the Tuscarora Nation in the event archaeological properties or human remains are discovered during construction.

2. Policy Analyst Richard L Allen - Cherokee Nation - Tahlequah, OK - electronic mail

Details: The TCNS Details do not provide me enough information to conduct a proper assessment of the projects on behalf of the Cherokee Nation. Therefore, I request that I be sent a brief summary of the Phase I findings [please try to limit the summary to between 1--10 pages], a topo of the area, and relevant photos. Please send these by email to rallen@cherokee.org. Please treat this request for additional material as a routine supplement to the TCNS Details Notification for each of your projects that fall within our Tribe's areas of geographic interest. Consequently, if you do not receive a response from me within 30 days from the date on which you e-mailed the supplemental items to me, you may move forward with the 20-Day Letter procedures pursuant to the FCC's guidelines. Thank you. -- Dr. Richard L. Allen

3. Administrative Assistant Jo Ann Beckham - Eastern Shawnee Tribe of Oklahoma - Seneca, MO - electronic mail

Details: If you, the Applicant and/or tower constructor, do not receive a response from us, the Eastern Shawnee Tribe of Oklahoma, within 30 days from the date of the TCNS notification, then you may conclude that we do not have an interest in the site. However, if archeological resources or remains are found during construction, you must immediately stop construction and notify us of your findings in accordance with the FCC's rules. (See 47 C.F.R. § 1.1312(d))

4. THPO Kim Jumper - Shawnee Tribe - Miami, OK - regular mail

Details: THIS IS YOUR OFFICIAL NOTICE THAT THE SHAWNEE TRIBE IS INTERESTED IN CONSULTING ON ALL PROJECTS BUILT IN OUR AREAS OF GEOGRAPHIC INTEREST.

ATTENTION, NEW INFORMATION: Our procedures were updated on 14 January 2008. Please call Kim Jumper, THPO, at 918-542-2441, so that she can send you a copy.

If your tower is a co-location, please fax us this information to let us know. We cannot always tell from the TCNS web site that a tower is a co-location. We require a written response from you to let us know that it is a co-location. If a co-location project includes some new ground disturbance (such as from an expanded compound or access road, or construction of an ancillary structure), the Shawnee Tribe treats such a project the same as any other non co-location project.

Our correct mailing/physical address is: 29 South Highway 69A. Our correct phone number is (918-542-2441) and our historic preservation fax line is (918-542-9915). THPO Kim Jumper manages all cell tower consultation.

As of 26 June 2006, all of the faxed responses of our final comments on a tower site will contain an original Shawnee Tribe signature. Each final comment fax is signed individually. Copies may be compared, for authentication, against the original in our files. If a final comment fax does not contain a signature, it is not valid. ALL FINAL COMMENTS FROM THE SHAWNEE TRIBE ARE WRITTEN; FINAL COMMENTS ARE NEVER PROVIDED VERBALLY. IF THE SHAWNEE TRIBE IS CREDITED WITH HAVING GIVEN A VERBAL RESPONSE, THAT RESPONSE IS NOT VALID.

If you receive notification through the TCNS listing the Shawnee Tribe, that is an indication that the Shawnee Tribe is interested in consulting on the tower for which that notification was received. Please consider that our official indication of interest to you. The Shawnee Tribe considers the Tower Construction Notification System's weekly e-mail to be the first notification that we receive that a tower will be constructed in an area of our concern. We do not view the TCNS notification as completion of 106 consultation obligations.

The Shawnee Tribe has developed streamlined consultation procedures for cell tower developers and their subcontractors. If you do not have a copy of the procedures - most recently updated

on 14 January 2008 - please contact us, as you must follow these procedures to consult with us on cell tower projects. Call us at 918-542-2441 or fax us at 918-542-9915. It is the tower builder's responsibility to make sure that you have our most recent consultation procedures.

PLEASE DO NOT SEND US INFORMATION, QUERIES, OR COMMENTS ELECTRONICALLY. SINCE 1 DECEMBER 2005, WE HAVE NOT HANDLED ANY CELL TOWER CONSULTATION, INQUIRIES, OR CORRESPONDENCE VIA E-MAIL.

5. THPO and Executive Director Dr. Wenonah G Haire - Catawba Indian Nation Cultural Preservation Project - Rock Hill, SC - electronic mail and regular mail
Details: The Catawba Indian Nation Tribal Historic Preservation Office requests that you send us by regular mail the following information needed to complete our research for the your proposed project:

Project Name _____

Project Number _____

- ____1. The name, complete address, phone number, fax number and e-mail address of the project manager.
- ____2. The project location plotted on a topo map.
- ____3. The project name, address and location; street or highway, city, county, state.
- ____4. A brief description of the proposed project. Please include the size of the proposed project site and the size of the area where ground-disturbing activities will be taking place and the type of disturbance anticipated.
- ____5. A brief description of current and former land use. We are primarily interested in ground disturbance and do not need detailed information or photographs of historic structures in the project area.
- ____6. A list of all recorded archaeological sites within one half (1/2) mile of the project area.
- ____7. A list of all eligible and potentially eligible National Register of Historic Places sites within one half (1/2) mile of the proposed project area.
- ____8. If there has been an archaeological survey done in the area, a copy of that report.
- ____9. It is not necessary to send original color photos if you can provide high-resolution color copies.
- ____10. A letter of concurrence from the appropriate State Historic Preservation Office.

If you use the FCC Form 620, please do not send Attachments 1 through 6. They are not necessary for our determination. We do not have an interest in projects that require no ground disturbance.

Please note: Our research/processing fee is currently \$150. This fee will be changing effective January 1, 2011 to \$250.

Please send these requested materials in hard copy format. Send to:

CIN-THPO
1536 Tom Steven Road
Rock Hill, S.C. 29730

The information you provided was also forwarded to the additional Tribes and NHOs listed below. These Tribes and NHOs have NOT set their geographic preferences on TCNS, and therefore they are currently receiving tower notifications for the entire United States. For these Tribes and NHOs, you are required to use reasonable and good faith efforts to determine if the Tribe or NHO may attach religious and cultural significance to historic properties that may be affected by its proposed undertaking. Such efforts may include, but are not limited to, seeking information from the relevant SHPO or THPO, Indian Tribes, state agencies, the U.S. Bureau of Indian Affairs, or, where applicable, any federal agency with land holdings within the state (NPA, Section IV.B). If after such reasonable and good faith efforts, you determine that a Tribe or NHO may attach religious and cultural significance to historic properties in the area and the Tribe or NHO does not respond to TCNS notification within a reasonable time, you should make a reasonable effort to follow up, and must seek guidance from the Commission in the event of continued non-response or in the event of a procedural or substantive disagreement. If you determine that the Tribe or NHO is unlikely to attach religious and cultural significance to historic properties within the area, you do not need to take further action unless the Tribe or NHO indicates an interest in the proposed construction or other evidence of potential interest comes to your attention.

None

The information you provided was also forwarded to the following SHPOs in the State in which you propose to construct and neighboring States. The information was provided to these SHPOs as a courtesy for their information and planning. You need make no effort at this time to follow up with any SHPO that does not respond to this notification. Prior to construction, you must provide the SHPO of the State in which you propose to construct (or the Tribal Historic Preservation Officer, if the project will be located on certain Tribal lands), with a Submission Packet pursuant to Section VII.A of the NPA.

6. Environmental Review Coordinator Renee GledhillEarley - NC State Historic Preservation Office - Raleigh, NC - electronic mail

7. Deputy SHPO David Brook - Historic Preservation Office - Raleigh, NC - electronic mail

If you are proposing to construct a facility in the State of Alaska, you should contact Commission staff for guidance regarding your obligations in the event that Tribes do not respond to this notification within a reasonable time.

Please be advised that the FCC cannot guarantee that the contact(s) listed above opened and reviewed an electronic or regular mail notification. The following information relating to the proposed tower was forwarded to the person(s) listed above:

Notification Received: 12/02/2011
Notification ID: 81278
Tower Owner Individual or Entity Name: TEP for the North Carolina Highway Patrol
Consultant Name: Kyle W Crawford
Street Address: 3703 Junction Blvd.

City: Raleigh
State: NORTH CAROLINA
Zip Code: 27603-5263
Phone: 919-661-6351
Email: kcrawford@tepgroup.net

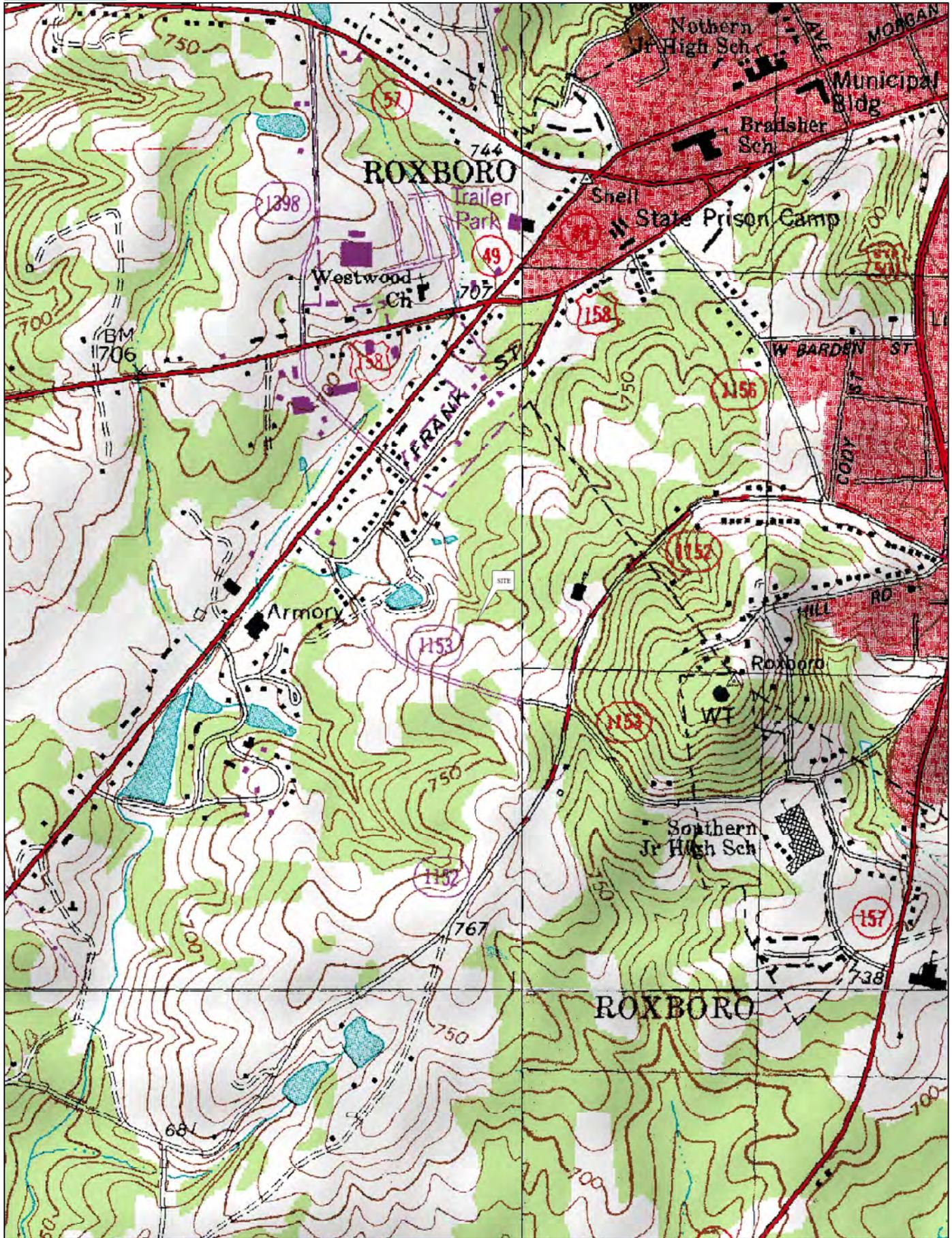
Structure Type: UTOWER - Unguyed - Free Standing Tower
Latitude: 36 deg 23 min 0.3 sec N
Longitude: 79 deg 0 min 3.5 sec W
Location Description: Critcher-Wilkerson Road
City: Roxboro
State: NORTH CAROLINA
County: PERSON
Ground Elevation: 227.7 meters
Support Structure: 85.3 meters above ground level
Overall Structure: 89.9 meters above ground level
Overall Height AMSL: 317.6 meters above mean sea level

If you have any questions or comments regarding this notice, please contact the FCC using the electronic mail form located on the FCC's website at:

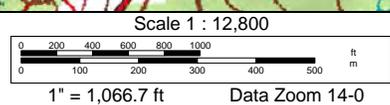
<http://wireless.fcc.gov/outreach/notification/contact-fcc.html>.

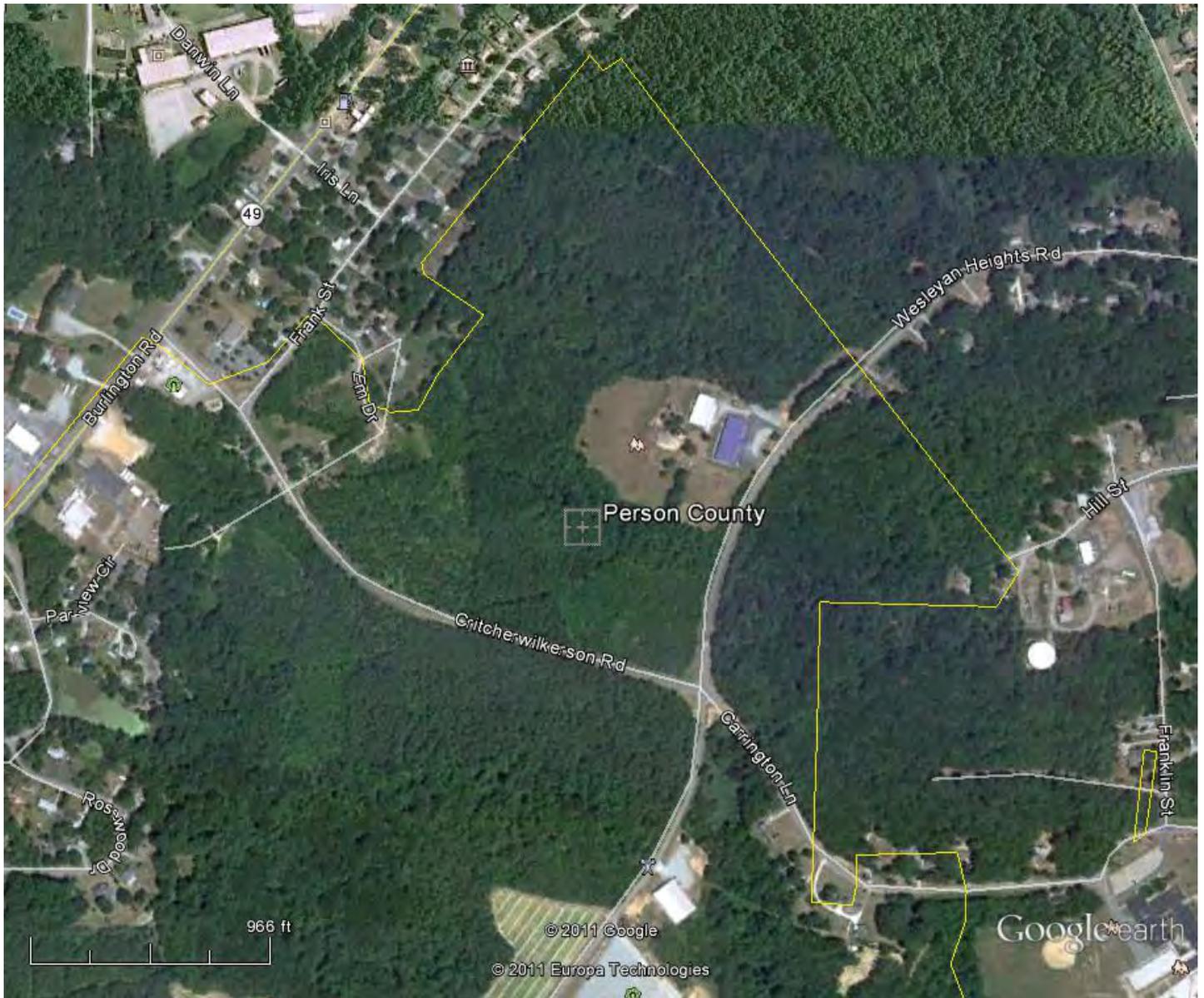
You may also call the FCC Support Center at (877) 480-3201 (TTY 717-338-2824). Hours are from 8 a.m. to 7:00 p.m. Eastern Time, Monday through Friday (except Federal holidays). To provide quality service and ensure security, all telephone calls are recorded.

Thank you,
Federal Communications Commission



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Google earth

Google earth



Section III – Informal Biological Assessment

COMMUNICATIONS TOWER SITE
EVALUATION FORM

1. Location (Provide maps if possible):
State: NC County: Person Latitude/Longitude/GPS Grid: N 36 23 00.256, W 79 00 3.527
City and Highway Direction (2 miles W on Hwy 20, etc.): north of Critcher-Wilkerson Road, west of Wesleyan Road, southwest of Roxboro, NC.
2. Elevation above mean sea level: ~747.1-ft
3. Will the equipment be co-located on an existing FCC licensed tower or other existing structure (building, water tank, etc)? Y/N NO If yes, type of structure:
4. If yes, will the compound be expanded: NO
If yes, will the tower be extended: NO
5. If No, provide proposed specifications for the new tower:
Height: 280-ft (295-ft with appurtenances)
Construction Type (lattice, monopole, etc.): Self-support Lattice
Guyed-Wire? NO No. Bands: 0 Total No. Wires: none
Lightning (Security and Aviation): Anticipated to be equipped with a dual mode lighting system that utilizes medium intensity lights.
6. Area of tower footprint in acres or square feet: ~2,262 sq. ft. (0.05-acres)
7. Length of access road in feet: Length: ~495-ft
Width: ~12-ft.
Area of proposed access drive: ~5,940 sq. ft. (0.13 acres)
Clearing limits associated with proposed project: 20,899 sq. ft (~0.48 acres)
8. General description of terrain (mountains, rolling hills, flat, flat in undulating, etc.). Photographs of the site and surrounding area are beneficial: gently sloping to the northwest
9. Meteorological conditions (incidence of fog, low ceilings, rain, etc.): sunny, warm
10. Soil Type(s): Appling sandy loam, 2-6% slopes and Helena sandy loam, 2-6% slopes.

11. Habitat types and land use on and adjacent to the site:

Habitat Type:	Acreage:	Percentage of Total:
Pine/Hardwood	~ 13.5 acres	100

Adjacent land use: low density residential, institutional (school), undeveloped forested

12. Dominant vegetative species in each habitat type: White Oak, Red Oak, Sourwood, Loblolly Pine

Tree species:

Sweet Gum	Sourwood
Yellow Poplar	Red Oak
Loblolly Pine	White Oak
Eastern Red Cedar	Red Maple

13. Will construction at this site cause fragmentation of a larger block of habitat into two or more smaller blocks? Y/N NO If yes, describe: Property surrounded by municipal and low density residential land uses.

14. Is evidence of bird roosts or rookeries present? Y/N NO If yes, describe:

15. Distance to nearest wetland area (forested swamp, marsh, riparian, marine, etc.), and coastline, if applicable: According to the NWI map, no wetlands are located within 0.25 miles of the proposed tower site.

16. Distance to nearest telecommunications tower: unknown, none observed at the time of inspection.

17. Potential for co-location of antennas on existing towers or other structures: NO

18. Have measures been incorporated for minimizing impacts to migratory birds? Y/N YES If yes, describe: Tower is under 300-ft AGL, anticipated to be equipped with a dual mode medium intensity lighting system, and will be of a self-support design, minimizing impacts caused by guy wires.

19. Has an evaluation been made to determine if the proposed facility may affect listed or proposed endangered or threatened species or their habitats as required by FCC regulations at 47 CFR 1.1307(a)(3)? Y/N YES If yes, present findings: No listed threatened or endangered species were observed during the time of inspection.

20. Additional information required:

U.S. Fish & Wildlife Service

Endangered Species, Threatened Species, Federal Species of Concern, and Candidate Species,

Person County, North Carolina



Updated: 09-22-2010

Common Name	Scientific name	Federal Status	Record Status
Vertebrate:			
Carolina darter	<i>Etheostoma collis lepidinon</i>	FSC	Probable/potential
Pinewoods shiner	<i>Lythrurus matutinus</i>	FSC	Obscure
Roanoke bass	<i>Ambloplites cavifrons</i>	FSC	Current
Invertebrate:			
Atlantic pigtoe	<i>Fusconaia masoni</i>	FSC	Current
Dwarf wedgemussel	<i>Alasmidonta heterodon</i>	E	Obscure
Green floater	<i>Lasmigona subviridis</i>	FSC	Current
Yellow lampmussel	<i>Lampsilis cariosa</i>	FSC	Current
Vascular Plant:			
Prairie birdsfoot-trefoil	<i>Lotus unifoliolatus</i> var. <i>helleri</i>	FSC	Current
Sweet pinesap	<i>Monotropsis odorata</i>	FSC	Historic
Virginia quillwort	<i>Isoetes virginica</i>	FSC	Current
Nonvascular Plant:			
Lichen:			

Definitions of Federal Status Codes:

E = endangered. A taxon "in danger of extinction throughout all or a significant portion of its range."

T = threatened. A taxon "likely to become endangered within the foreseeable future throughout all or a significant portion of its range."

C = candidate. A taxon under consideration for official listing for which there is sufficient information to support listing. (Formerly "C1" candidate species.)

BGPA =Bald and Golden Eagle Protection Act. See below.

FSC = federal species of concern. A species under consideration for listing, for which there is

insufficient information to support listing at this time. These species may or may not be listed in the future, and many of these species were formerly recognized as "C2" candidate species.

T(S/A) = threatened due to similarity of appearance. A taxon that is threatened due to similarity of appearance with another listed species and is listed for its protection. Taxa listed as T(S/A) are not biologically endangered or threatened and are not subject to Section 7 consultation. See below.

EXP = experimental population. A taxon listed as experimental (either essential or nonessential).

Experimental, nonessential populations of endangered species (e.g., red wolf) are treated as threatened species on public land, for consultation purposes, and as species proposed for listing on private land.

P = proposed. Taxa proposed for official listing as endangered or threatened will be noted as "PE" or "PT", respectively.

Bald and Golden Eagle Protection Act (BGPA):

In the July 9, 2007 Federal Register(72:37346-37372), the bald eagle was declared recovered, and removed (de-listed) from the Federal List of Threatened and Endangered wildlife. This delisting took effect August 8,2007. After delisting, the Bald and Golden Eagle Protection Act (Eagle Act) (16 U.S.C. 668-668d) becomes the primary law protecting bald eagles. The Eagle Act prohibits take of bald and golden eagles and provides a statutory definition of "take" that includes "disturb". The USFWS has developed National Bald Eagle Management Guidelines to provide guidance to land managers, landowners, and others as to how to avoid disturbing bald eagles. For mor information, visit <http://www.fws.gov/migratorybirds/baldeagle.htm>

Threatened due to similarity of appearance(T(S/A)):

In the November 4, 1997 Federal Register (55822-55825), the northern population of the bog turtle (from New York south to Maryland) was listed as T (threatened), and the southern population (from Virginia south to Georgia) was listed as T(S/A) (threatened due to similarity of appearance). The T(S/A) designation bans the collection and interstate and international commercial trade of bog turtles from the southern population. The T(S/A) designation has no effect on land management activities by private landowners in North Carolina, part of the southern population of the species. In addition to its official status as T(S/A), the U.S. Fish and Wildlife Service considers the southern population of the bog turtle as a Federal species of concern due to habitat loss.

Definitions of Record Status:

Current - the species has been observed in the county within the last 50 years.

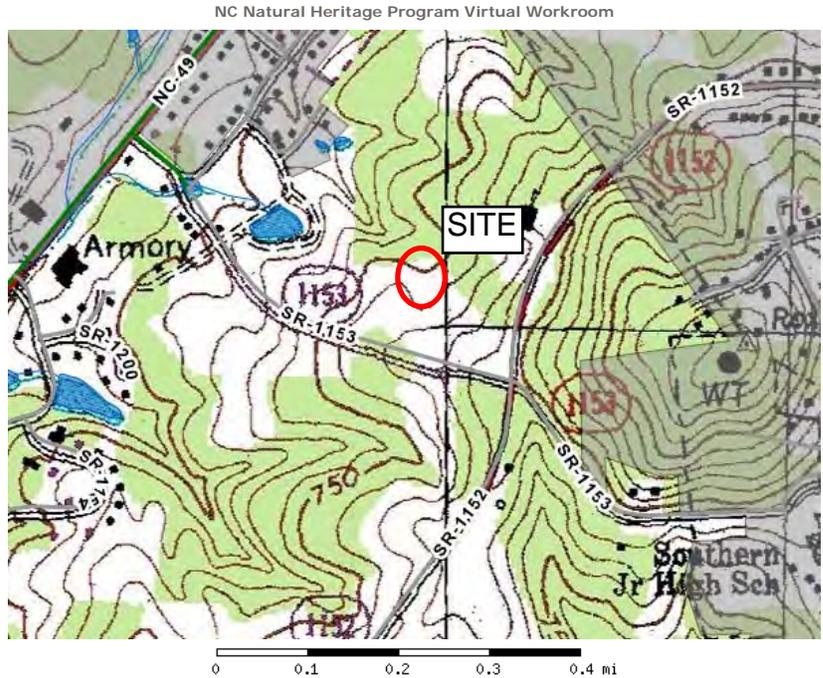
Historic - the species was last observed in the county more than 50 years ago.

Obscure - the date and/or location of observation is uncertain.

Incidental/migrant - the species was observed outside of its normal range or habitat.

Probable/potential - the species is considered likely to occur in this county based on the proximity of known records (in adjacent counties), the presence of potentially suitable habitat, or both.

- Legend**
- Element Occurrences (not displayed)
 - Significant Natural Heritage Areas
 - Managed Areas
 - Roads
 - Municipalities
 - Rivers and Lakes
 - Topo Maps
 - Aerial Images (2010)
 - Topo Boundaries
 - County Boundaries
 - Redraw Map



[Home](#) [Help](#)

Locator Map

Map Size: 600 x 450

Functions

- Zoom In
- Zoom Out
- Pan
- Identify

Quick View

--Choose Region--

[Problems or Questions?](#)

Please cite as: "North Carolina Natural Heritage Program. 2011. Biotics Database. Department of Environment and Natural Resources, Raleigh, North Carolina." Data updated on: 2011-Dec-02

Powered By: [MapServer](#) [PHP](#) [PostgreSQL](#) [PostGIS](#)

0 record(s) found within 2 miles of the selected point

Scientific Name	EO Nb	Common Name	Date Last Observed	EO Rank	EO Accuracy	State Protection Status	Federal Protection Status	State Rank	Global Rank	Habitat Comments
-----------------	-------	-------------	--------------------	---------	-------------	-------------------------	---------------------------	------------	-------------	------------------

No Records

Section IV - NEPA Supporting Documentation

Communications Tower Review Form



I. Applicant Information:

Preparer/Company: George Swearingen/Tower Engineering Professionals, Inc.
Address: 3703 Junction Blvd Raleigh, NC 27603
Phone/Fax/E-mail: (919) 661-6351/(919) 661-6350/gswearingen@tepgroup.net

For North Carolina HPO Use Only
CT 11- 2327

II. Tower Information: (Attach copy of USGS map or photocopy of quad on reverse; include 1 and 2 mile radius around site)

X Raw Land (New) Co-Location Applicant's Identification # HP-1234

Address: Critcher-Wilkerson Road, Roxboro

County: Person, North Carolina FCC Registration No.

Tower type and height: 280-ft SST 295-ft with appurt. Quad Name: Olive Hill / Roxboro

III. Identification of Historic Properties

List sites by site number and status: NR = National Register listed; SL = Study List; DOE = Determination of Eligibility; LD = Local Designation; UA = Unassessed

Archaeology

of recorded sites in immediate area of tower: 0
shovel tested by ESI w/ negative results

Architecture

of recorded sites within 3/4-mile radius: 1

DOE Property: PR0297 - Roxboro National Guard Armory

IV. Additional Information/Investigation Needed:

No Survey
No Testing of sites

Photo Reconnaissance
Balloon Test

Recommended by/on: JEM 12/8/11
(Office of State Archaeology)

Recommended by/on:
(Survey & Planning Branch)

V. Recommendations/Final Determination:

Recommendations for additional work are shown above.

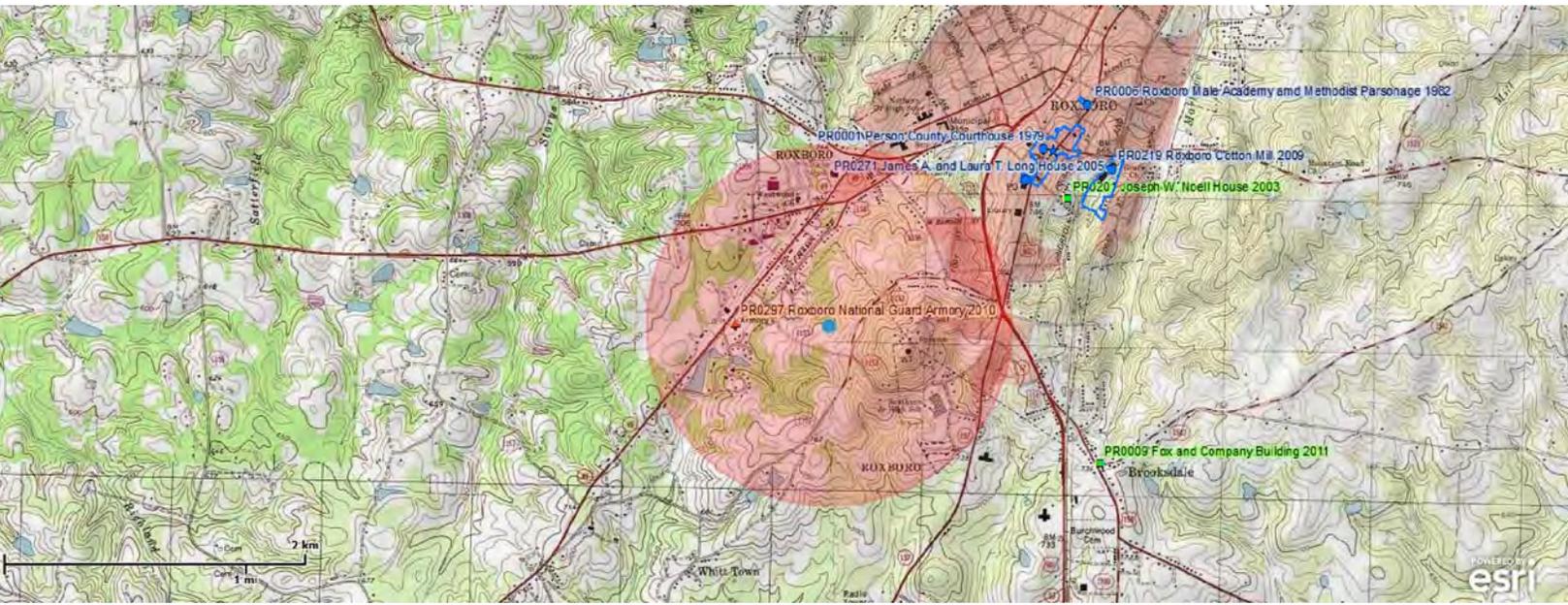
X The proposed communication tower will Not Adversely affect historic properties in the area of potential effect.

Renee Gledhill-Earley
Renee Gledhill-Earley, Environmental Review Coordinator

12.9.11
Date

cc: FCC

Person County



Copyright 2011 Esri. All rights reserved. Fri Dec 2 2011 03:10:45 PM.

SHPO Search Results:

Site ID: PR0297

County: Person - DOE

Site Name: Roxboro National Guard Armory

Description: 1960 B-Coffey & Olsen Type Armory

Notes: Null

Year SL: Null

Year DOE: 2010

STATE OF NORTH CAROLINA,
PERSON COUNTY

PRINTER'S AFFIDAVIT

Vickie F. Carver, being duly sworn,
deposes and says: That he/she is Office Manager of
The Courier-Times, with its principle place of business
located in the city of Roxboro, County of Person, State
of North Carolina; that the foregoing or attached
newspaper notice was published in The Courier-Times,
once a week for 1 successive weeks, beginning with
its issue of 7th day of December, 2011,
and ending with its issue of 7th day of
December, 2011; that The Courier-Times, is
the sole owner and publisher of said newspaper,
The Courier-Times.

Vickie F. Carver (Affiant)

Sworn to and subscribed before me,
this the 15th day of December, 2011
Denise E. Reaves (Notary Public)

My commission expires the 29th day of September, 2014

(Publication Fee \$ 37.28)

(Notarial Seal)

Public Notice
The North Carolina Department of Crime Control and Public Safety proposes the construction of a 280-ft (295-ft with appurtenances) AGL Self-support Emergency Services Tower that will be located north of a portion of Critcher-Wilkerson Road, west of Wesleyan Road, southwest of the Town of Roxboro, in central Person County, North Carolina (Person County PIN# 0905-05-08-1178.000).
Please submit any written comments by 1/7/12 regarding the potential effects that the proposed tower may have on Historic Properties that are listed or eligible for inclusion in the National Register of Historic Places to:
Tower Engineering Professionals, Inc
(Attn: George Swearingen)
3703 Junction Blvd.
Raleigh, NC 27603
Telephone: (919) 661-6351
Fax: (919) 661-6350
Dec. 7, 2011

RECEIVED
DEC 16 2011



United States Department of the Interior

FISH AND WILDLIFE SERVICE
Raleigh Field Office
Post Office Box 33726
Raleigh, North Carolina 27636-3726

DEC 27 2011

December 20, 2011

Mr. Kyle Crawford
Tower Engineering Professionals
3703 Junction Boulevard
Raleigh, NC 27603-5263

RE: Construction of 280ft AGL Self-Support Communications Tower
NC Highway Patrol VIPER (Person County)

Dear Mr. Crawford:

This letter is to inform you of the U.S. Fish and Wildlife Service's response pursuant to the Migratory Bird Treaty Act (16 U.S.C. 703 *et seq.*; MBTA) and the Endangered Species Act, as amended (16 U.S.C. 1531 *et seq.*; ESA), to your communication tower project.

With regard to your subject project, we offer the following remarks.

Migratory Bird Treaty Act

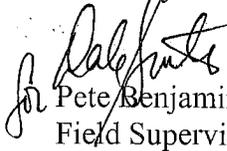
Based on the description of the tower design characteristics, we conclude that the design of the proposed communications tower does not minimize the potential hazard to avian species protected by the MBTA.

Endangered Species Act

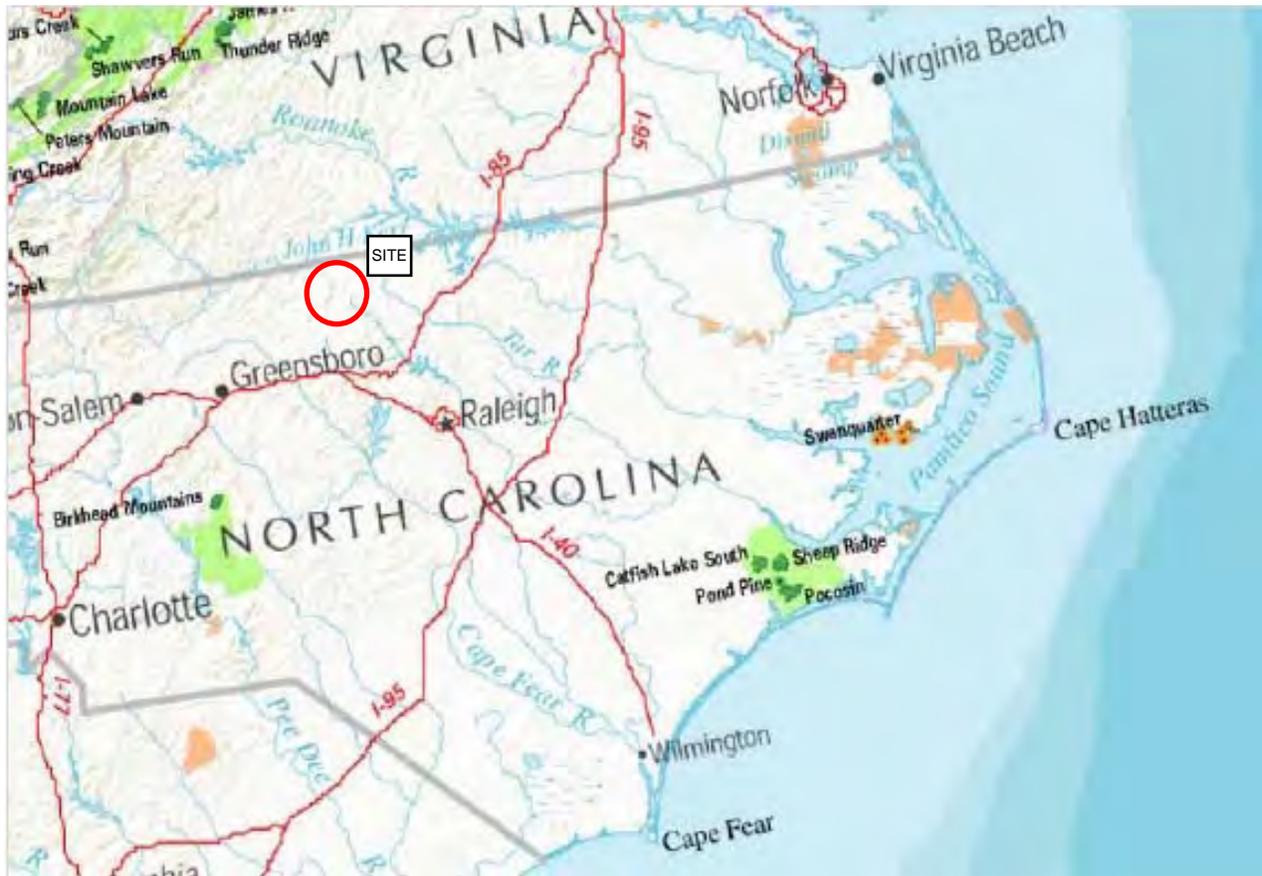
Based on the information provided, we concur with your determination that the proposed activities are not likely to adversely affect federally-listed threatened and endangered species. We believe that the requirements of section 7(a)(2) of the ESA have been satisfied. We remind you that obligations under section 7 consultation must be reconsidered if: (1) new information reveals impacts of this identified action that may affect listed species or critical habitat in a manner not previously considered; (2) this action is subsequently modified in a manner that was not considered in this review; or, (3) a new species is listed or critical habitat determined that may be affected by the identified action.

If you have any questions or comments, please contact this office as 919-856-4520.

Sincerely,

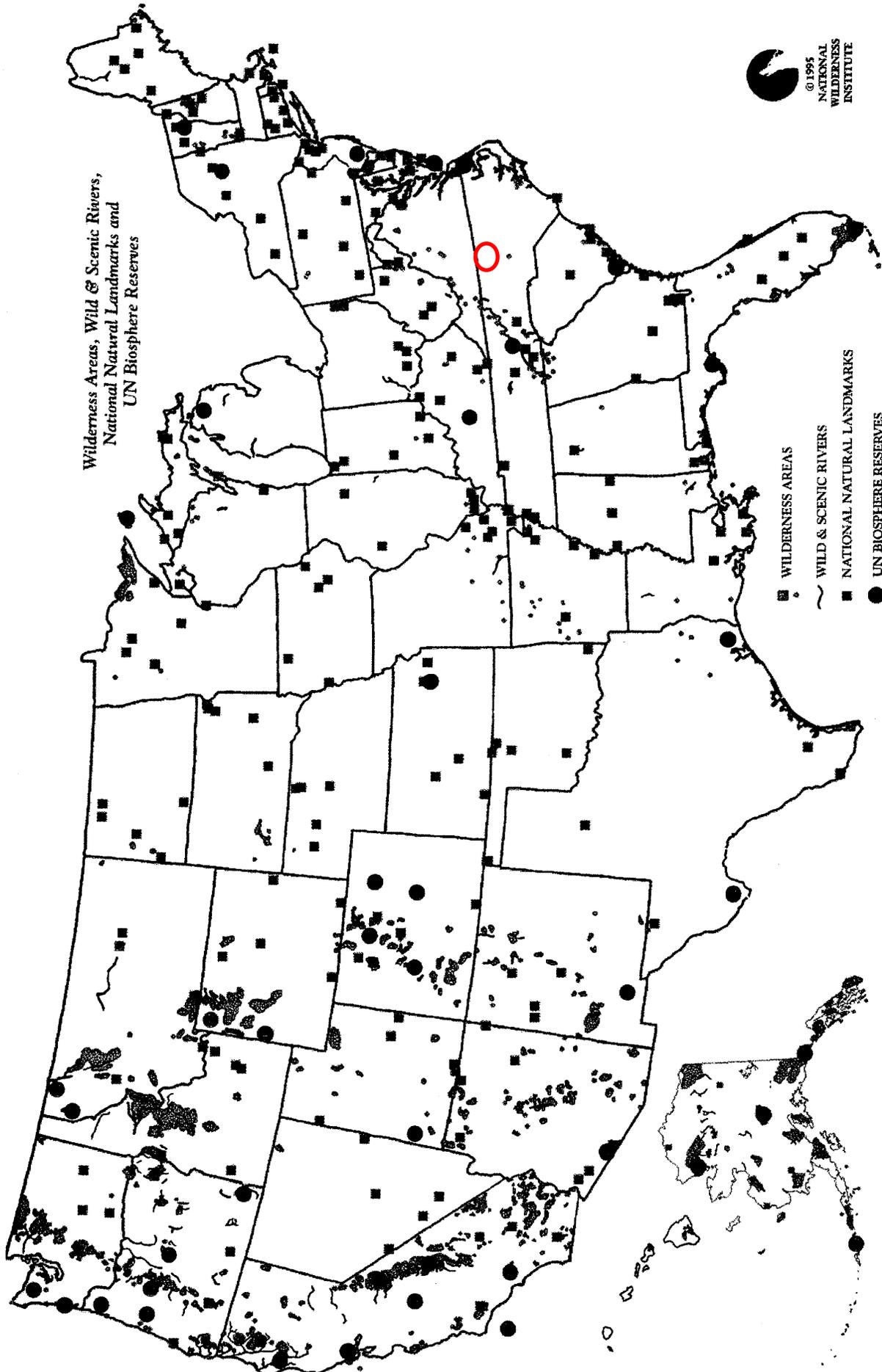

Pete Benjamin
Field Supervisor

U.S. NATIONAL WILDERNESS PRESERVATION SYSTEM MAP



Map Legend

- Bureau of Land Management Wilderness
- Bureau of Land Management NON-Wilderness
- Fish & Wildlife Service Wilderness
- Fish & Wildlife Service NON-Wilderness
- Forest Service Wilderness
- Forest Service NON-Wilderness
- National Park Service Wilderness
- National Park Service NON-Wilderness
- Major Roads
- Ferry Routes (AK)



Wilderness Areas, Wild & Scenic Rivers,
National Natural Landmarks and
UN Biosphere Reserves

- WILDERNESS AREAS
- ~ WILD & SCENIC RIVERS
- NATIONAL NATURAL LANDMARKS
- UN BIOSPHERE RESERVES

[Links to descriptions of places on map.](#) [Wilderness Areas](#) / [Wild and Scenic Rivers](#) / [UN Biosphere Reserves](#) / [National Natural Landmarks](#)

© 1995 by National Wilderness Institute.

For a full resolution 11" x17" version of this map with source information order the "This Land Is Whose Land?" issue of the NWI Resource from NWI. Contact us for details.

NORTH CAROLINA NATIONAL NATURAL LANDMARKS MAP





NATIONAL REGISTRY
OF NATURAL LANDMARKS
JUNE 2009

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Wayne County

ZURICH BOG

Zurich Bog is a good example of northern sphagnum bog and bog forest vegetation, both of which are uncommon in north-central New York. Designated: 1973. Ownership: Private.

Westchester County

MIANUS RIVER GORGE

The Mianus River Gorge contains an excellent climax hemlock forest and presents an exceptional illustration of piedmont physiography and geomorphology. Designated: 1964. Ownership: Private.

NORTH CAROLINA (13)

Alleghany County

STONE MOUNTAIN

(extends into Wilkes County) Stone Mountain, located within Stone Mountain State Park, is the best example of a monadnock in massive granite in North Carolina. Unique, endemic plants persist on the granite outcrops. Designated: 1974. Ownership: State.

Ashe County

**LONG HOPE CREEK
SPRUCE BOG**

(extends into Watauga County) Long Hope Creek Spruce Bog is one of the rarest plant communities in North Carolina and the Southeast, including plant species such as American yew and buckbean. Designated: 1974. Ownership: Private.

**MOUNT JEFFERSON
STATE NATURAL AREA**

Mount Jefferson State Natural Area contains virtually undisturbed northern red oak forests, and represents one of the best remaining examples of oak-chestnut forest in the Southeast. Designated: 1974. Ownership: State.

Beaufort County

**GOOSE CREEK STATE
PARK NATURAL AREA**

Goose Creek State Park Natural Area is an excellent example of a gently sloping mainland undergoing rapid ocean transgression. The site contains several diverse ecological communities including: brackish creeks and marshes, marsh transition areas, river swamp forest, and pine forest. Designated: 1980. Ownership: State.



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JUNE 2009

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Brunswick County

GREEN SWAMP

Green Swamp is the largest and most unique mosaic of wetland communities in the Carolinas and is a refuge for rare plant and animal species. Designated: 1974. Ownership: Private.

SMITH ISLAND

(extends into New Hanover County) Smith Island, located within Fort Fisher State Recreation Area, is a barrier island complex representing one of the least disturbed areas remaining on the Atlantic Coast. The site contains one of the best unaltered examples of sand strand forest in existence, and a system of sand dunes. Salt marshes, tidal creeks, bays, and mudflats are used extensively by aquatic birds, and island beaches provide breeding habitat for loggerhead turtles. Designated: 1967. Ownership: State.

Dare County

**NAGS HEAD WOODS
AND JOCKEY'S RIDGE**

Nags Head Woods and Jockey's Ridge illustrates the entire series of dune development and plant succession, from shifting open dunes to forested stabilized dunes. Designated: 1974. Ownership: State, county, municipal, private.

Davie County

ORBICULAR DIORITE

The Orbicular Diorite site contains an unusual plutonic igneous rock consisting of hornblende, pyroxene, and feldspars. Designated: 1980. Ownership: Private.

Hyde County

**SALYER'S RIDGE
NATURAL AREA**

Salyer's Ridge Natural Area, located within the Mattamuskeet National Wildlife Refuge, contains a rare example of mature loblolly pine forest in process of succession towards a deciduous forest. Designated: 1983. Ownership: Federal.

New Hanover County

SMITH ISLAND

(see Brunswick County)

Onslow County

BEAR ISLAND

Bear Island, located within Hammocks Beach State Park, contains one of the largest and best examples of coastal eolian landforms in the Atlantic Coastal Plain biophysiological province. Dune movement has created a dynamic landscape of outstanding scenic beauty. Designated: 1980. Ownership: State.



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Surry County

PILOT MOUNTAIN

Pilot Mountain, located within Pilot Mountain State Park, is a classic monadnock that harbors disjunct vegetation from the Blue Ridge region. Designated: 1974. Ownership: State.

Wake County

**PIEDMONT BEECH
NATURAL AREA**

Piedmont Beech Natural Area, located within William B. Umstead State Park, is one of the best examples of mixed mesophytic forest in the eastern Piedmont of North Carolina. Portions of the site contain unusual examples of good, maturing stands of beech. Designated: 1974. Ownership: State.

Watauga County

**LONG HOPE CREEK
SPRUCE BOG**

(see Ashe County)

Wilkes County

STONE MOUNTAIN

(see Alleghany County)

Yancey County

**MOUNT MITCHELL STATE
PARK**

Mount Mitchell, located within Mount Mitchell State Park, is the highest mountain in the eastern half of the United States at 6,684 feet. The site supports the most extensive stand of Fraser fir remaining in the country. Designated: 1974. Ownership: State.

NORTH DAKOTA (4)

Billings County

**TWO-TOP MESA AND BIG
TOP MESA**

Located one mile apart, Two-Top Mesa and Big Top Mesa are in a badlands terrain of sandstones, siltstones and clay. The mesas are characterized by an unbroken cover of grass on flat relief. Designated: 1965. Ownership: Federal.

Cavalier County

RUSH LAKE

A large shallow, essentially undisturbed prairie pothole lake, Rush Lake is an important staging area for waterfowl. Designated: 1975. Ownership: Private.



Tower Construction Notification

[FCC](#) > [WTB](#) > Tower Construction Notification

[FCC Site Map](#)

Logged In: ([Log Out](#)) [Section 106](#)

Tower Construction Notification New Notification

[Notifications Home](#)

Your Notification has been successfully submitted to the FCC. The date for this Notification is 12/02/2011. Your Notification ID number is **81278**. Please make a note of this Notification ID — print out this page for your records. A confirmation of this submitted notification will also be emailed to the email address specified in your notification.

This system is intended to facilitate consultation under Section 106 of the National Historic Preservation Act by providing early notification of proposed construction to Tribes and State Historic Preservation officers. This system is not to be used in place of Section 106 consultation, and use of this notification system in itself does not satisfy parties' obligations with respect to historic preservation review under the Commission's rules.

Please note: the submission of this notification is NOT to be considered a submission for Antenna Structure Registration.

Tower Structures that require antenna structure registration based on FCC Rules 47 C.F.R. Part 17 must complete FCC Form 854 after FAA clearance is obtained.

ASR Help	ASR License Glossary - FAQ - Online Help - Documentation - Technical Support
ASR Online Systems	TOWAIR- CORES/ASR Registration - ASR Online Filing - Application Search - Registration Search
About ASR	Privacy Statement - About ASR - ASR Home

Federal Communications Commission
445 12th Street SW
Washington, DC 20554
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Phone: 1-877-480-3201
TTY: 1-717-338-2824
Fax: 1-866-418-0232
[Submit Help Request](#)

- [Web Policies & Privacy Statement](#)
- [Required Browser Plug-ins](#)
- [Customer Service Standards](#)
- [Freedom of Information Act](#)

Kyle Crawford

From: towernotifyinfo@fcc.gov
Sent: Friday, December 02, 2011 11:30 AM
To: Kyle Crawford
Subject: Proposed Tower Structure Info - Email ID #2925396

Dear Kyle W Crawford,

Thank you for submitting a notification regarding your proposed construction via the Tower Construction Notification System. Note that the system has assigned a unique Notification ID number for this proposed construction. You will need to reference this Notification ID number when you update your project's Status with us.

Below are the details you provided for the construction you have proposed:

Notification Received: 12/02/2011

Notification ID: 81278

Tower Owner Individual or Entity Name: TEP for the North Carolina Highway Patrol

Consultant Name: Kyle W Crawford

Street Address: 3703 Junction Blvd.

City: Raleigh

State: NORTH CAROLINA

Zip Code: 27603-5263

Phone: 919-661-6351

Email: kcrawford@tepgroup.net

Structure Type: UTOWER - Unguyed - Free Standing Tower

Latitude: 36 deg 23 min 00.3 sec N

Longitude: 79 deg 00 min 3.5 sec W

Location Description: Critcher-Wilkerson Road

City: Roxboro

State: NORTH CAROLINA

County: PERSON

Ground Elevation: 227.7 meters

Support Structure: 85.3 meters above ground level

Overall Structure: 89.9 meters above ground level

Overall Height AMSL: 317.6 meters above mean sea level

Kyle Crawford

From: towernotifyinfo@fcc.gov
Sent: Friday, December 09, 2011 3:01 AM
To: Kyle Crawford
Cc: kim.pristello@fcc.gov; diane.dupert@fcc.gov
Subject: NOTICE OF ORGANIZATION(S) WHICH WERE SENT PROPOSED TOWER CONSTRUCTION NOTIFICATION INFORMATION - Email ID #2925825

Dear Sir or Madam:

Thank you for using the Federal Communications Commission's (FCC) Tower Construction Notification System (TCNS). The purpose of this electronic mail message is to inform you that the following authorized persons were sent the information you provided through TCNS, which relates to your proposed antenna structure. The information was forwarded by the FCC to authorized TCNS users by electronic mail and/or regular mail (letter).

Persons who have received the information that you provided include leaders or their designees of federally-recognized American Indian Tribes, including Alaska Native Villages (collectively "Tribes"), Native Hawaiian Organizations (NHOs), and State Historic Preservation Officers (SHPOs). For your convenience in identifying the referenced Tribes and in making further contacts, the City and State of the Seat of Government for each Tribe and NHO, as well as the designated contact person, is included in the listing below. We note that Tribes may have Section 106 cultural interests in ancestral homelands or other locations that are far removed from their current Seat of Government. Pursuant to the Commission's rules as set forth in the Nationwide Programmatic Agreement for Review of Effects on Historic Properties for Certain Undertakings Approved by the Federal Communications Commission (NPA), all Tribes and NHOs listed below must be afforded a reasonable opportunity to respond to this notification, consistent with the procedures set forth below, unless the proposed construction falls within an exclusion designated by the Tribe or NHO. (NPA, Section IV.F.4).

The information you provided was forwarded to the following Tribes and NHOs who have set their geographic preferences on TCNS. If the information you provided relates to a proposed antenna structure in the State of Alaska, the following list also includes Tribes located in the State of Alaska that have not specified their geographic preferences. For these Tribes and NHOs, if the Tribe or NHO does not respond within a reasonable time, you should make a reasonable effort at follow-up contact, unless the Tribe or NHO has agreed to different procedures (NPA, Section IV.F.5). In the event such a Tribe or NHO does not respond to a follow-up inquiry, or if a substantive or procedural disagreement arises between you and a Tribe or NHO, you must seek guidance from the Commission (NPA, Section IV.G). These procedures are further set forth in the FCC's Declaratory Ruling released on October 6, 2005 (FCC 05-176).

1. Chief Leo R Henry - Tuscarora Nation - Via: Lewiston, NY - regular mail
Details: If the Applicant/tower builder receives no response from the Tuscarora Nation within 30 days after notification through TCNS, the Tuscarora Nation has no interest in participating in pre-construction review for the site. The Applicant/tower builder, however, must IMMEDIATELY notify the Tuscarora Nation in the event archaeological properties or human remains are discovered during construction.

2. Policy Analyst Richard L Allen - Cherokee Nation - Tahlequah, OK - electronic mail

Details: The TCNS Details do not provide me enough information to conduct a proper assessment of the projects on behalf of the Cherokee Nation. Therefore, I request that I be sent a brief summary of the Phase I findings [please try to limit the summary to between 1--10 pages], a topo of the area, and relevant photos. Please send these by email to rallen@cherokee.org. Please treat this request for additional material as a routine supplement to the TCNS Details Notification for each of your projects that fall within our Tribe's areas of geographic interest. Consequently, if you do not receive a response from me within 30 days from the date on which you e-mailed the supplemental items to me, you may move forward with the 20-Day Letter procedures pursuant to the FCC's guidelines. Thank you. -- Dr. Richard L. Allen

3. Administrative Assistant Jo Ann Beckham - Eastern Shawnee Tribe of Oklahoma - Seneca, MO - electronic mail

Details: If you, the Applicant and/or tower constructor, do not receive a response from us, the Eastern Shawnee Tribe of Oklahoma, within 30 days from the date of the TCNS notification, then you may conclude that we do not have an interest in the site. However, if archeological resources or remains are found during construction, you must immediately stop construction and notify us of your findings in accordance with the FCC's rules. (See 47 C.F.R. § 1.1312(d))

4. THPO Kim Jumper - Shawnee Tribe - Miami, OK - regular mail

Details: THIS IS YOUR OFFICIAL NOTICE THAT THE SHAWNEE TRIBE IS INTERESTED IN CONSULTING ON ALL PROJECTS BUILT IN OUR AREAS OF GEOGRAPHIC INTEREST.

ATTENTION, NEW INFORMATION: Our procedures were updated on 14 January 2008. Please call Kim Jumper, THPO, at 918-542-2441, so that she can send you a copy.

If your tower is a co-location, please fax us this information to let us know. We cannot always tell from the TCNS web site that a tower is a co-location. We require a written response from you to let us know that it is a co-location. If a co-location project includes some new ground disturbance (such as from an expanded compound or access road, or construction of an ancillary structure), the Shawnee Tribe treats such a project the same as any other non co-location project.

Our correct mailing/physical address is: 29 South Highway 69A. Our correct phone number is (918-542-2441) and our historic preservation fax line is (918-542-9915). THPO Kim Jumper manages all cell tower consultation.

As of 26 June 2006, all of the faxed responses of our final comments on a tower site will contain an original Shawnee Tribe signature. Each final comment fax is signed individually. Copies may be compared, for authentication, against the original in our files. If a final comment fax does not contain a signature, it is not valid. ALL FINAL COMMENTS FROM THE SHAWNEE TRIBE ARE WRITTEN; FINAL COMMENTS ARE NEVER PROVIDED VERBALLY. IF THE SHAWNEE TRIBE IS CREDITED WITH HAVING GIVEN A VERBAL RESPONSE, THAT RESPONSE IS NOT VALID.

If you receive notification through the TCNS listing the Shawnee Tribe, that is an indication that the Shawnee Tribe is interested in consulting on the tower for which that notification was received. Please consider that our official indication of interest to you. The Shawnee Tribe considers the Tower Construction Notification System's weekly e-mail to be the first notification that we receive that a tower will be constructed in an area of our concern. We do not view the TCNS notification as completion of 106 consultation obligations.

The Shawnee Tribe has developed streamlined consultation procedures for cell tower developers and their subcontractors. If you do not have a copy of the procedures - most recently updated

on 14 January 2008 - please contact us, as you must follow these procedures to consult with us on cell tower projects. Call us at 918-542-2441 or fax us at 918-542-9915. It is the tower builder's responsibility to make sure that you have our most recent consultation procedures.

PLEASE DO NOT SEND US INFORMATION, QUERIES, OR COMMENTS ELECTRONICALLY. SINCE 1 DECEMBER 2005, WE HAVE NOT HANDLED ANY CELL TOWER CONSULTATION, INQUIRIES, OR CORRESPONDENCE VIA E-MAIL.

5. THPO and Executive Director Dr. Wenonah G Haire - Catawba Indian Nation Cultural Preservation Project - Rock Hill, SC - electronic mail and regular mail
Details: The Catawba Indian Nation Tribal Historic Preservation Office requests that you send us by regular mail the following information needed to complete our research for the your proposed project:

Project Name _____

Project Number _____

- ____1. The name, complete address, phone number, fax number and e-mail address of the project manager.
- ____2. The project location plotted on a topo map.
- ____3. The project name, address and location; street or highway, city, county, state.
- ____4. A brief description of the proposed project. Please include the size of the proposed project site and the size of the area where ground-disturbing activities will be taking place and the type of disturbance anticipated.
- ____5. A brief description of current and former land use. We are primarily interested in ground disturbance and do not need detailed information or photographs of historic structures in the project area.
- ____6. A list of all recorded archaeological sites within one half (1/2) mile of the project area.
- ____7. A list of all eligible and potentially eligible National Register of Historic Places sites within one half (1/2) mile of the proposed project area.
- ____8. If there has been an archaeological survey done in the area, a copy of that report.
- ____9. It is not necessary to send original color photos if you can provide high-resolution color copies.
- ____10. A letter of concurrence from the appropriate State Historic Preservation Office.

If you use the FCC Form 620, please do not send Attachments 1 through 6. They are not necessary for our determination. We do not have an interest in projects that require no ground disturbance.

Please note: Our research/processing fee is currently \$150. This fee will be changing effective January 1, 2011 to \$250.

Please send these requested materials in hard copy format. Send to:

CIN-THPO
1536 Tom Steven Road
Rock Hill, S.C. 29730

The information you provided was also forwarded to the additional Tribes and NHOs listed below. These Tribes and NHOs have NOT set their geographic preferences on TCNS, and therefore they are currently receiving tower notifications for the entire United States. For these Tribes and NHOs, you are required to use reasonable and good faith efforts to determine if the Tribe or NHO may attach religious and cultural significance to historic properties that may be affected by its proposed undertaking. Such efforts may include, but are not limited to, seeking information from the relevant SHPO or THPO, Indian Tribes, state agencies, the U.S. Bureau of Indian Affairs, or, where applicable, any federal agency with land holdings within the state (NPA, Section IV.B). If after such reasonable and good faith efforts, you determine that a Tribe or NHO may attach religious and cultural significance to historic properties in the area and the Tribe or NHO does not respond to TCNS notification within a reasonable time, you should make a reasonable effort to follow up, and must seek guidance from the Commission in the event of continued non-response or in the event of a procedural or substantive disagreement. If you determine that the Tribe or NHO is unlikely to attach religious and cultural significance to historic properties within the area, you do not need to take further action unless the Tribe or NHO indicates an interest in the proposed construction or other evidence of potential interest comes to your attention.

None

The information you provided was also forwarded to the following SHPOs in the State in which you propose to construct and neighboring States. The information was provided to these SHPOs as a courtesy for their information and planning. You need make no effort at this time to follow up with any SHPO that does not respond to this notification. Prior to construction, you must provide the SHPO of the State in which you propose to construct (or the Tribal Historic Preservation Officer, if the project will be located on certain Tribal lands), with a Submission Packet pursuant to Section VII.A of the NPA.

6. Environmental Review Coordinator Renee GledhillEarley - NC State Historic Preservation Office - Raleigh, NC - electronic mail

7. Deputy SHPO David Brook - Historic Preservation Office - Raleigh, NC - electronic mail

If you are proposing to construct a facility in the State of Alaska, you should contact Commission staff for guidance regarding your obligations in the event that Tribes do not respond to this notification within a reasonable time.

Please be advised that the FCC cannot guarantee that the contact(s) listed above opened and reviewed an electronic or regular mail notification. The following information relating to the proposed tower was forwarded to the person(s) listed above:

Notification Received: 12/02/2011
Notification ID: 81278
Tower Owner Individual or Entity Name: TEP for the North Carolina Highway Patrol
Consultant Name: Kyle W Crawford
Street Address: 3703 Junction Blvd.

City: Raleigh
State: NORTH CAROLINA
Zip Code: 27603-5263
Phone: 919-661-6351
Email: kcrawford@tepgroup.net

Structure Type: UTOWER - Unguyed - Free Standing Tower
Latitude: 36 deg 23 min 0.3 sec N
Longitude: 79 deg 0 min 3.5 sec W
Location Description: Critcher-Wilkerson Road
City: Roxboro
State: NORTH CAROLINA
County: PERSON
Ground Elevation: 227.7 meters
Support Structure: 85.3 meters above ground level
Overall Structure: 89.9 meters above ground level
Overall Height AMSL: 317.6 meters above mean sea level

If you have any questions or comments regarding this notice, please contact the FCC using the electronic mail form located on the FCC's website at:

<http://wireless.fcc.gov/outreach/notification/contact-fcc.html>.

You may also call the FCC Support Center at (877) 480-3201 (TTY 717-338-2824). Hours are from 8 a.m. to 7:00 p.m. Eastern Time, Monday through Friday (except Federal holidays). To provide quality service and ensure security, all telephone calls are recorded.

Thank you,
Federal Communications Commission

Kyle Crawford

From: Richard Allen [Richard-Allen@cherokee.org]
Sent: Wednesday, December 21, 2011 12:37 PM
To: Kyle Crawford
Subject: RE: TEP Concurrence - Person County - TCNS# 81278

The Cherokee Nation has no knowledge of any historic, cultural or sacred sites within the affected area. Should any ground disturbance reveal an archaeological site or human remains, we ask that the all activity cease immediately and the Cherokee Nation and other appropriate agencies be contacted immediately.

Thank you,

Dr. Richard L. Allen
Policy Analyst
Cherokee Nation
P.O. Box 948
Tahlequah, Oklahoma 74465
(918) 453-5466 (office)
(918) 822-2707 (cell)
(918) 458-5898 (fax)

From: Kyle Crawford [<mailto:kcrawford@tepgroup.net>]
Sent: Tuesday, December 06, 2011 9:21 AM
To: Richard Allen; Richard Allen
Subject: TEP Concurrence - Person County - TCNS# 81278

Dr. Allen,

I have attached information concerning the proposed NCHP communications tower site identified as Person County (TCNS# 81278) for your review and concurrence. If you have any questions or need any further information, please do not hesitate to call.

Thank you,
Kyle

Kyle W. Crawford

Environmental Scientist | Tower Engineering Professionals, Inc. (www.tepgroup.net)

3703 Junction Boulevard | Raleigh, NC 27603-5263 | Office: (919) 661-6351 | Fax: (919) 661-6350 | Mobile: (919) 880-3446



SHAWNEE TRIBE
HISTORIC PRESERVATION DEPARTMENT
29 SOUTH HIGHWAY 69A
MIAMI, OKLAHOMA 74354
918 ^ 542 ^ 2441 PHONE 918 ^ 542 ^ 9915 FAX

FACSIMILE COVER PAGE

To: Kyle FROM: Kimi Jumper

FIRM/AGENCY: TEP DATE/TIME: 12/27/11

FAX NUMBER: 919-661-6350 NO. OF PAGES, INCLUDING COVER: 1

PHONE NUMBER: _____ MEMO: 81278

Message: The Shawnee Tribe's Tribal Historic Preservation Officer concurs that no known historic properties will be negatively impacted by construction of this tower site (see memo line above for TCNS number/s). The Shawnee Tribe's archives do not reveal any issues of concern at this tower location. In the event that archaeological materials are encountered later during construction, use, or maintenance of this tower location, please re-notify us at that time as we would like to resume consultation under such a circumstance.

The Shawnee Tribe's Environmental and Natural Resources Department takes this opportunity to express its concerns that telecommunication towers can have a potentially destructive impact on bats and migratory birds, particularly those that migrate at night, including species listed as threatened and endangered by both states and the federal government, as well as other species. The Shawnee Tribe suggests that this tower be constructed in accordance with the guidelines available from the US Fish and Wildlife Service to reduce the adverse effects of telecommunication towers on migratory birds; these guidelines may be found at: www.fws.gov/migratorybirds/issues/towers/comtow.html.

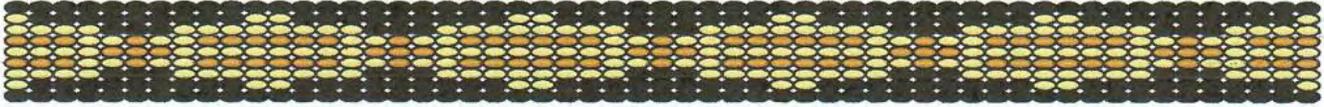
The Shawnee Tribe's Environmental and Natural Resources Department is further concerned that the proliferation of cell towers may play a role in honey bee Colony Collapse Disorder. We acknowledge that cell phone technology may not be to blame, especially by itself, as other potential causative factors for the decline have been noted, such as insecticides, tracheal and varroa mites [an immunosuppressant], other parasites, pesticides used on hives to eliminate parasites, genetically modified plants, *Nosema* fungus, Israeli Acute Paralysis Virus (IAPV) perhaps introduced from Australia in 2004, Kashmir Bee Virus [KBV], climate change, and drought.

Finally, the Shawnee Tribe's Environmental and Natural Resources Department requests that cell tower sites, whenever remotely feasible, be restored to native vegetation. In all cases, habitat restoration can protect a variety of species, even in small project areas. The large number of cell tower sites provides an as yet unrealized opportunity for region-wide habitat restoration. The Tribe urges the cell phone industry to provide a model for native habitat restoration for other industries.

Please do not hesitate to call us for additional comment.

Catawba Indian Nation
Tribal Historic Preservation Office
1536 Tom Steven Road
Rock Hill, South Carolina 29730

Office 803-328-2427
Fax 803-328-5791



December 16, 2011

Attention: Kyle Crawford
Tower Engineering Professionals
3703 Junction Blvd.
Raleigh, NC 27603-5263

Re. THPO #	TCNS#	Project Description
2012-12-6	81278	Proposed 280ft Tower Person County Critcher-Wilkerson Road Roxboro, NC

Dear Mr. Crawford,

The Catawba have no immediate concerns with regard to traditional cultural properties, sacred sites or Native American archaeological sites within the boundaries of the proposed project areas. **However, the Catawba are to be notified if Native American artifacts and / or human remains are located during the ground disturbance phase of this project.**

If you have questions please contact Caitlin Totherow at 803-328-2427 ext. 226, or e-mail caitlinh@ccppcrafts.com.

Sincerely,

Wenonah G. Haire
Tribal Historic Preservation Officer



National NAGPRA Online Databases



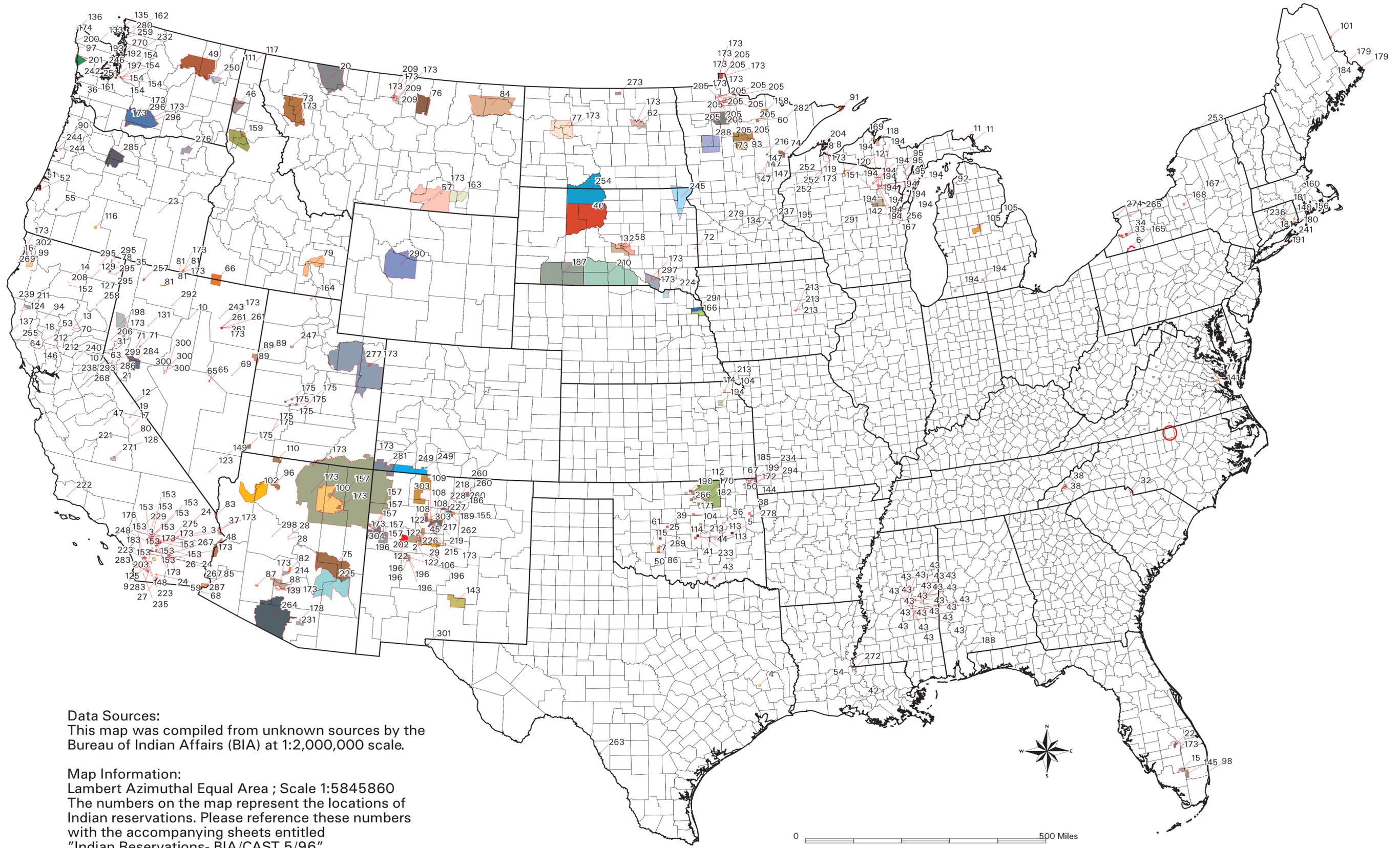
NACD Query Results Full Data Report

Query input:

State = North Carolina
County = Person

NO RECORDS FOUND MATCHING SEARCH CRITERIA

Indian Reservations in the Continental United States





National NAGPRA



Resources for [Tribes](#) | [Museums](#) | [Agencies](#) | [Public](#) | [Press](#)

Indian Reservations in the Continental United States MAP INDEX

[Full Size Map \(PDF\)](#)

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1. ABSENTEE SHAWNEE *	103. INAJA	205. RED LAKE
2. ACOMA	104. IOWA *	206. RENO-SPARKS
3. AGUA CALIENTE	105. ISABELLA	207. RINCON
4. ALABAMA-COUSHATTA	106. ISLETA	208. ROARING CREEK
5. ALABAMA-QUASSARTE CREEKS *	107. JACKSON	209. ROCKY BOYS
6. ALLEGANY	108. JEMEZ	210. ROSEBUD
7. APACHE *	109. JICARILLA	211. ROUND VALLEY
8. BAD RIVER	110. KAIBAB	212. RUMSEY
9. BARONA RANCH	111. KALISPEL	213. SAC AND FOX #
10. BATTLE MOUNTAIN	112. KAW *	214. SALT RIVER
11. BAY MILLS	113. KIALEGEE CREEK *	215. SANDIA
12. BENTON PAIUTE	114. KICKAPOO *	216. SANDY LAKE
13. BERRY CREEK	115. KIOWA *	217. SANTA ANA
14. BIG BEND	116. KLAMATH *	218. SANTA CLARA
15. BIG CYPRESS	117. KOOTENAI	219. SANTA DOMINGO
16. BIG LAGOON	118. L'ANSE	220. SANTA ROSA
17. BIG PINE	119. LAC COURTE OREILLES	221. SANTA ROSA (NORTH)
18. BIG VALLEY	120. LAC DU FLAMBEAU	222. SANTA YNEZ

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37. CHEMEHUEVI	139. MARICOPA	241. SHINNECOCK +
38. CHEROKEE * #	140. MASHANTUCKET PEQUOT	242. SHOALWATER
39. CHEYENNE-ARAPAHOE*	141. MATTAPONI +	243. SHOSHONE
40. CHEYENNE RIVER	142. MENOMINEE	244. SILETZ
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272. TUNICA-BILOXI
273. TURTLE MOUNTAINS
274. TUSCARORA
275. TWENTYNINE PALMS
276. UMATILLA
277. UNITAH AND OURAY
278. UNITED KEETOOWAH
BAND OF CHEROKEE *
279. UPPER SIOUX
280. UPPER SKAGIT
281. UTE MOUNTAIN

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77. FORT BERTHOLD	180. PAUCATAUK PEQUOT +	283. VIEJAS
78. FORT BIDWELL	181. PAUGUSETT +	284. WALKER RIVER
79. FORT HALL	182. PAWNEE *	285. WARM SPRINGS
80. FORT INDEPENDENCE	183. PECHANGA	286. WASHOE
81. FORT MCDERMITT	184. PENOBSCOT	287. WEST COCOPAH
82. FORT MCDOWELL	185. PEORIA *	288. WHITE EARTH
83. FORT MOHAVE	186. PICURIS	289. WICHITA *
84. FORT PECK	187. PINE RIDGE	290. WIND RIVER
85. FORT YUMA	188. POARCH CREEK	291. WINNEBAGO #
86. FT. SILL APACHE *	189. POJOAQUE	292. WINNEMUCCA
87. GILA BEND	190. PONCA *	293. WOODFORD INDIAN COMMUNITY
88. GILA RIVER	191. POOSEPATUCK +	294. WYANDOTTE *
89. GOSHUTE	192. PORT GAMBLE	295. XL RANCH
90. GRANDE RONDE	193. PORT MADISON	296. YAKAMA
91. GRAND PORTAGE	194. POTAWATOMI #	297. YANKTON
92. GRAND TRAVERSE	195. PRAIRIE ISLE	298. YAVAPAI
93. GREATER LEECH LAKE	196. PUERTOCITO	299. YERINGTON
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95. HANNAHVILLE	198. PYRAMID LAKE	301. YSLETA DEL SUR
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97. HOH	200. QUILLAYUTE	303. ZIA
98. HOLLYWOOD	201. QUINAULT	304. ZUNI
99. HOOPA VALLEY	202. RAMAH	
100. HOPI	203. RAMONA	
101. HOULTON MALISEETS		

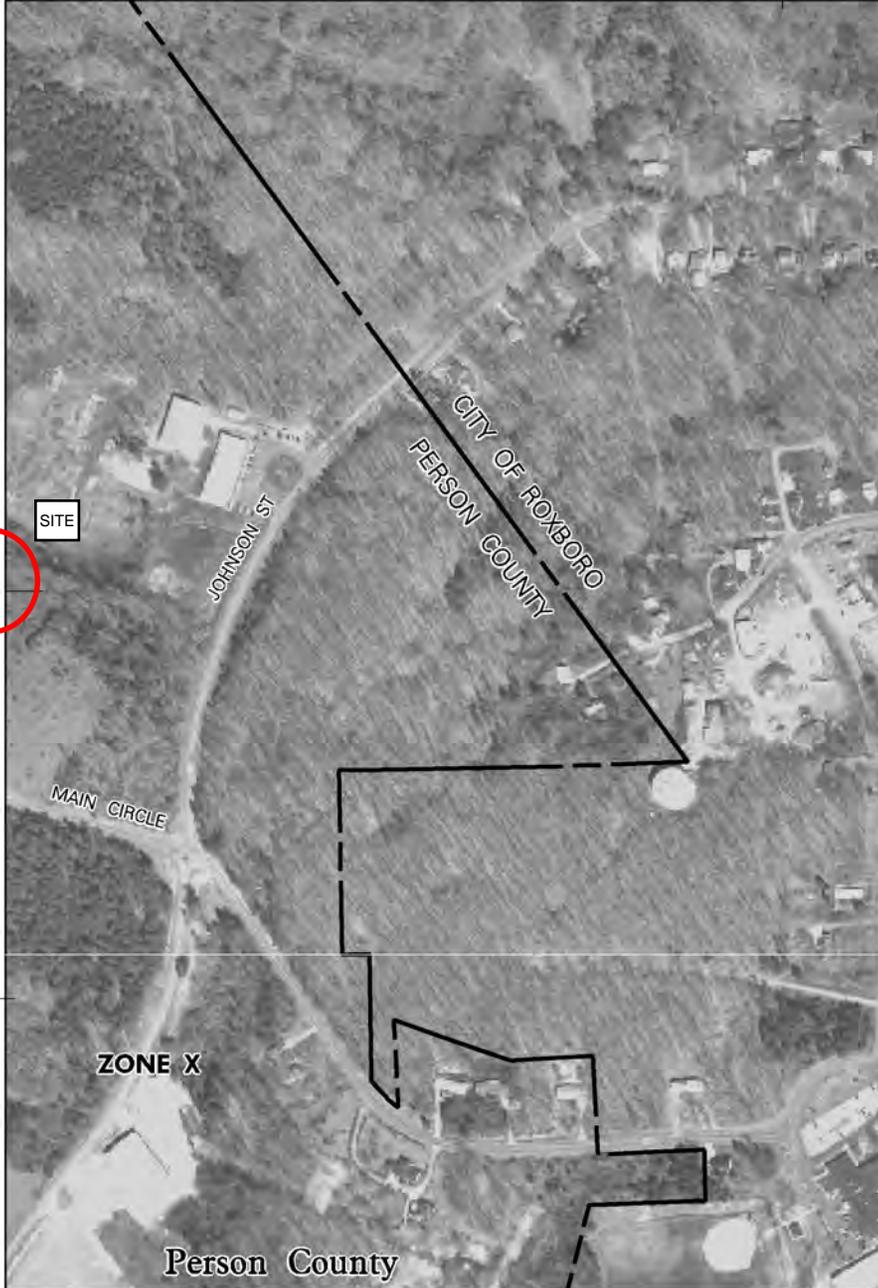
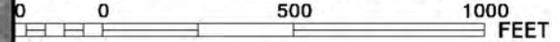
2 000 000 FEET
960 000 FEET

680 000 M



GRID NORTH

SCALE 1" = 500' (1 : 6,000)



36° 21' 00"

4028 000 M

ZONE X

Person County

NFIP

PANEL 0905J

NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP NORTH CAROLINA

PANEL 0905

(SEE LOCATOR DIAGRAM OR MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	CID No.	PANEL	SUFFIX
PERSON COUNTY	370346	0905	J
ROXBORO, CITY OF	370347	0905	J

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

EFFECTIVE DATE
JUNE 4, 2007

MAP NUMBER
3720090500J



State of North Carolina
Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

LEGEND



SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

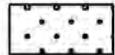
The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.



FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.



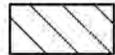
OTHER FLOOD AREAS

- ZONE X** Areas of 0.2% annual chance flood; areas of future conditions 1% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

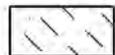


OTHER AREAS

- ZONE X** Areas determined to be outside the 0.2% annual chance and future conditions 1% annual chance floodplain.
- ZONE D** Areas in which flood hazards are undetermined, but possible.



COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS



OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.



GRID NORTH

SCALE 1" = 500' (1 : 6,000)

0 0 500 1000 FEET

NFIP

PANEL 0905J

NATIONAL FLOOD INSURANCE PROGRAM

FIRM FLOOD INSURANCE RATE MAP NORTH CAROLINA

PANEL 0905

(SEE LOCATOR DIAGRAM OR MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

<u>COMMUNITY</u>	<u>CID No.</u>	<u>PANEL</u>	<u>SUFFIX</u>
PERSON COUNTY	370546	0905	
ROXBORO, CITY OF	370347	0905	

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

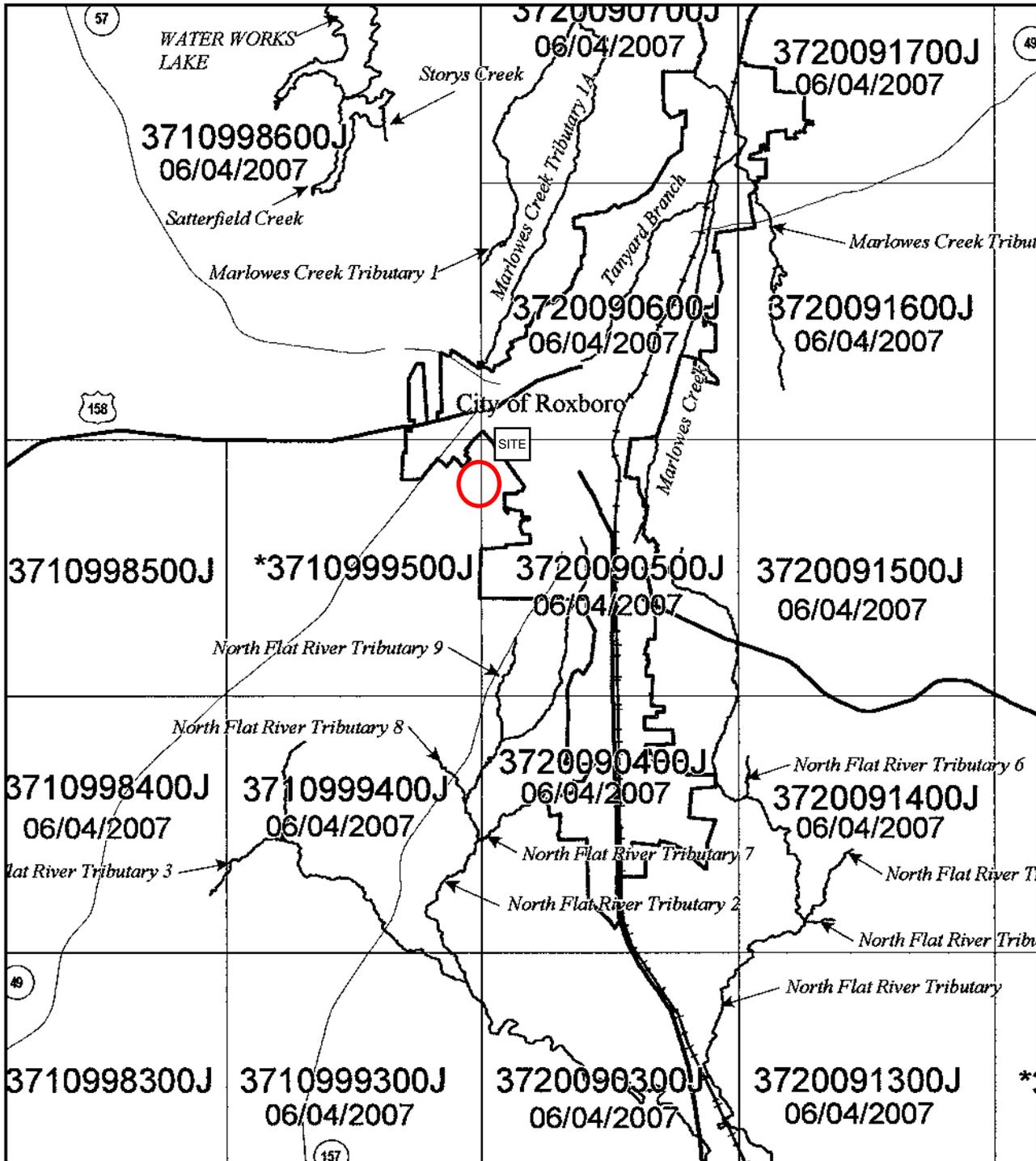
**EFFECTIVE DATE
JUNE 4, 2007**

**MAP NUMBER
3720090500J**



State of North Carolina
Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



NATIONAL FLOOD INSURANCE PROGRAM

MAP INDEX

FIRM
FLOOD INSURANCE RATE MAP
PERSON COUNTY,
NORTH CAROLINA
AND INCORPORATED AREAS

(SEE LISTING OF COMMUNITIES TABLE)

MAP INDEX

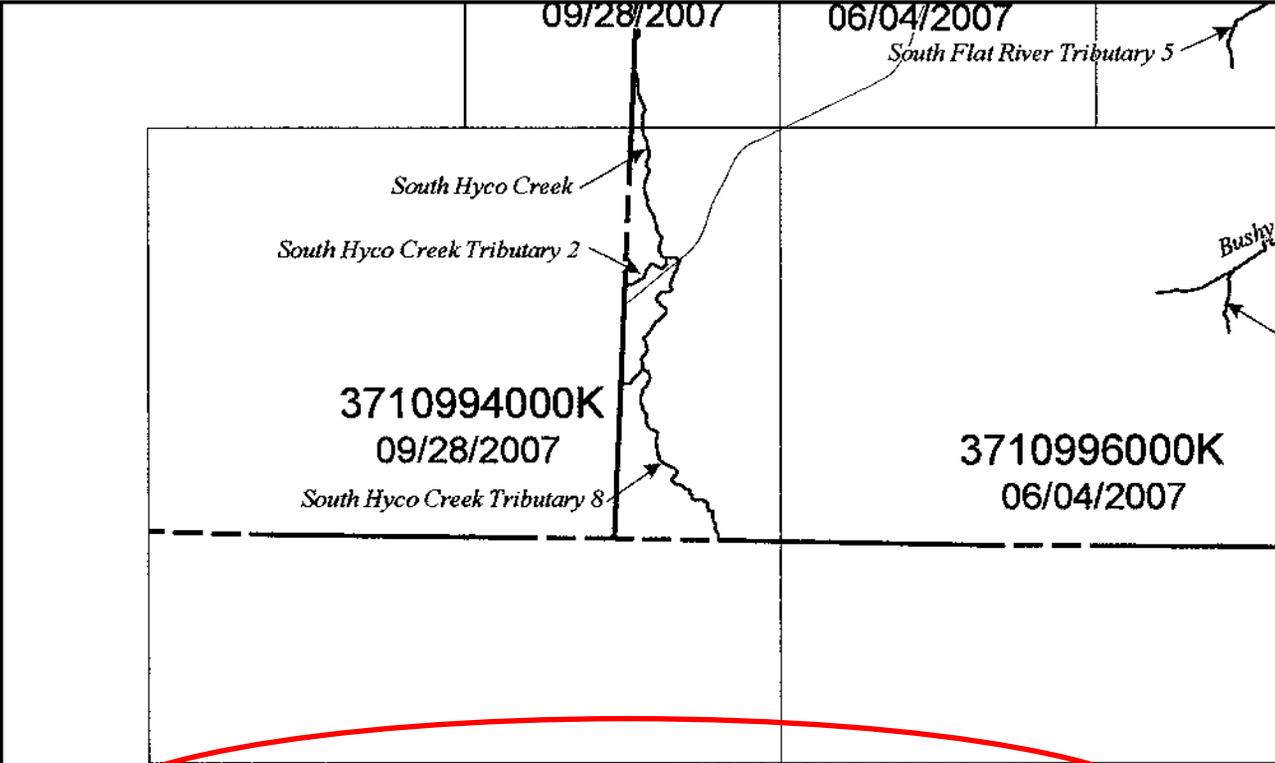
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MAP REVISED **MAP NUMBER**
SEPTEMBER 28, 2007 **37145CIND0B**



State of North Carolina
 Federal Emergency Management Agency

* This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



* PANEL NOT PRINTED - NO SPECIAL FLOOD HAZARD AREAS
 ** NO SPECIAL FLOOD HAZARD AREAS IN PERSON COUNTY



NATIONAL FLOOD INSURANCE PROGRAM

MAP INDEX

FIRM
FLOOD INSURANCE RATE MAP
PERSON COUNTY,
NORTH CAROLINA
AND INCORPORATED AREAS
(SEE LISTING OF COMMUNITIES TABLE)

MAP INDEX
PANELS PRINTED: 0000, 0020, 0021, 0030, 0031, 0040, 0041, 0050, 0051, 0901, 0902, 0903, 0904, 0905, 0906, 0907, 0908, 0910, 0911, 0912, 0913, 0914, 0915, 0916, 0917, 0920, 0921, 0922, 0924, 0926, 0928, 0929, 0930, 0931, 0932, 0933, 0938, 0939, 0940, 0942, 0945, 0948, 0954, 0955, 9070, 9071, 9080, 9081, 9090, 9091, 9940, 9952, 9953, 9954, 9956, 9957, 9958, 9959, 9980, 9982, 9983, 9984, 9986, 9987, 9988, 9989, 9972, 9976, 9977, 9978, 9979, 9981, 9982, 9984, 9986, 9988, 9989, 9990, 9991, 9992, 9993, 9994, 9996, 9999

MAP REVISED **MAP NUMBER**
SEPTEMBER 28, 2007 **37145CIND0B**




State of North Carolina
 Federal Emergency Management Agency

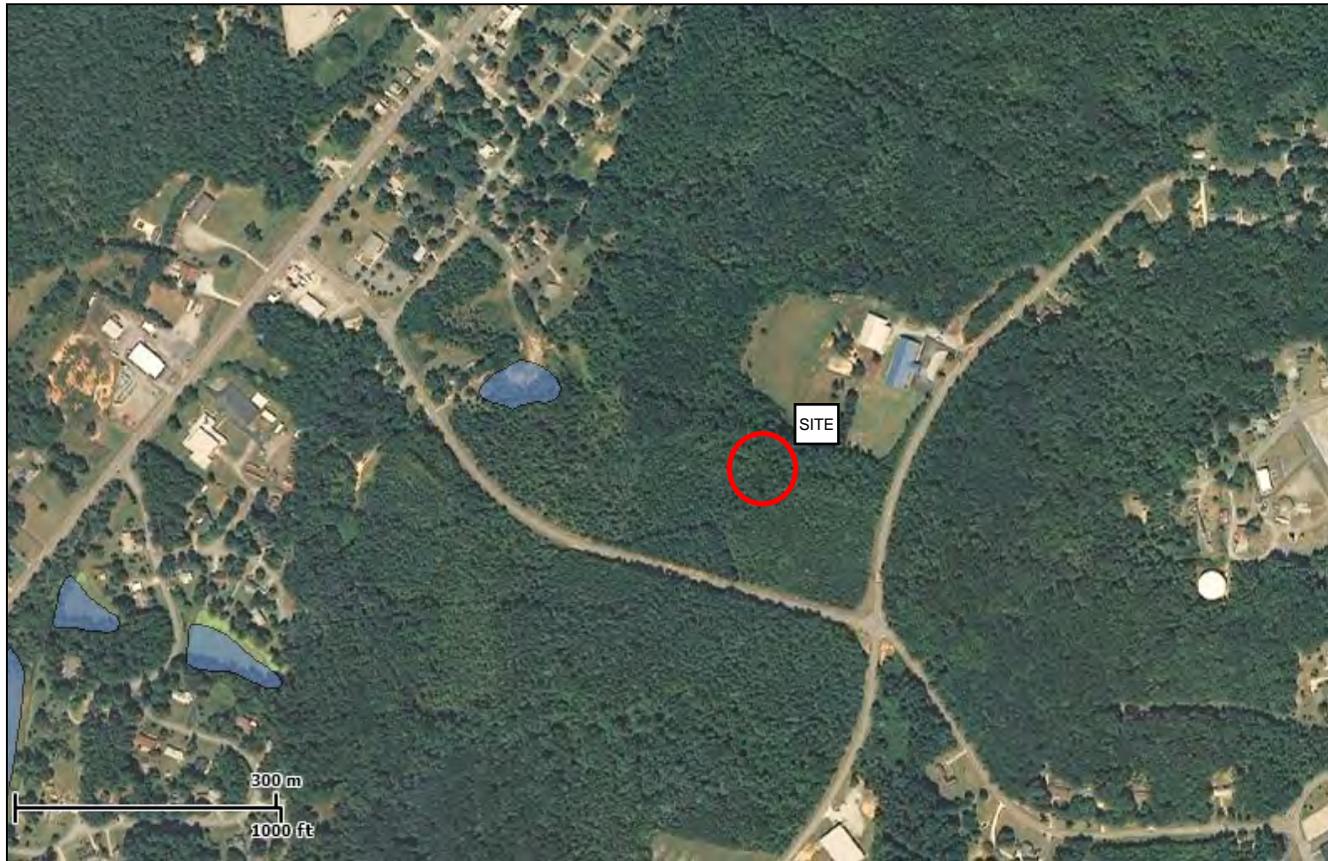
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U.S. Fish and Wildlife Service National Wetlands Inventory

Person County

Dec 2, 2011



Wetlands

- Freshwater Emergent
- Freshwater Forested/Shrub
- Estuarine and Marine Deepwater
- Estuarine and Marine
- Freshwater Pond
- Lake
- Riverine
- Other

Riparian

- Herbaceous
- Forested/Shrub

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

User Remarks:

Appendix C: NC DENR Air Pollution Response

Kyle Crawford

From: Davey, Brendan [brendan.davey@ncdenr.gov]
Sent: Tuesday, February 02, 2010 1:48 PM
To: Kyle Crawford
Cc: DENR.DAQ.Permit_Coordinators; Muller, Paul
Subject: RE: Emergency Generator Permit Exemption
Attachments: SD 60 Generator Spec Sheet Generac.pdf; SD 40 Generator Spec Sheet Generac.pdf
Mr. Crawford,

In the attached email you requested NC Air Permitting exemption for a 40 or 60 kW diesel fuel-fired emergency generator to be installed at several VIPER Emergency Services tower sites throughout North Carolina within the next year. You also indicated the generator would be the only expected source of air emissions at each project site.

15A NCAC 2D .0102(c)(2)(B)(v) specifically exempts the following from NC Air Permitting:

(v) emergency use generators and other internal combustion engines not regulated by rules adopted under Title II of the Federal Clean Air Act, except self-propelled vehicles, that have a rated capacity of no more than:

- (I) 680 kilowatts (electric) or 1000 horsepower for natural gas-fired engines;*
- (II) 1800 kilowatts (electric) or 2510 horsepower for liquefied petroleum gas fired engines;*
- (III) 590 kilowatts (electric) or 900 horsepower for diesel-fired or kerosene fired engines; or***
- (IV) 21 kilowatts (electric) or 31 horsepower for gasoline-fired engines;*

It appears your proposed project meets this exemption and an air quality permit is not necessary at this time. I have copied the other NCDAQ Regional Offices to make them aware of these projects. Please note there are three local air quality programs that may have different requirements in Buncombe, Forsyth, and Mecklenburg Counties. The following webpage provides information about the local air programs: <http://daq.state.nc.us/about/local/>

If you have any further questions, please call me at the number below or call the applicable regional office.

- Brendan Davey

Brendan Davey - Brendan.Davey@ncdenr.gov
North Carolina Dept. of Environment and Natural Resources
Asheville Regional Office
Division of Air Quality
2090 U.S. 70 Highway
Swannanoa, NC 28778
Tel: 828-296-4500
Fax: 828-299-7043
www.ncair.org

Notice: E-mail correspondence to and from this address may be subject to the North Carolina Public Records Law and therefore may be disclosed to third parties.

From: Kyle Crawford [mailto:kccrawford@tepgroup.net]
Sent: Tuesday, February 02, 2010 11:31 AM
To: Davey, Brendan
Subject: Emergency Generator Permit Exemption

Mr. Davey,

Thank you for speaking with me this morning regarding exemptions for emergency generators. Our original conversation was in regards to the proposed emergency services generator to be placed atop Bearallow Mountain, in Henderson County, NC. However, TEP anticipates working on at least 10-20 VIPER Emergency Services tower sites throughout North Carolina within the next year. In an attempt to expedite the work for all parties involved perhaps a blanket exemption response from your office may benefit all parties involved.

All emergency services generators will be located atop a concrete pad foundation and used for emergency power for the necessary radio equipment to allow the VIPER Emergency Services system to operate when the primary power source fails.

All generators placed within VIPER facilities are anticipated to be either 40 kW or 60 kW diesel emergency services generators with a fuel capacity not to exceed 465-gallons (which is the maximum tank size specified in the Generac SD-40 and SD-60 Industrial Diesel Generator Specifications, attached herein).

The placement of emergency services generators on the proposed VIPER Emergency Services tower facilities will be the only anticipated source of air emissions from the project site.

I look forward to hearing from you regarding this matter. If you have any additional questions or need further information to be able to make an informed decision regarding this matter, please do not hesitate to contact me at your earliest convenience. Thank you again for your time.

Thank you,
Kyle Crawford

Kyle W. Crawford
Environmental Scientist II
Tower Engineering Professionals, Inc.
3703 Junction Boulevard
Raleigh, NC, 27603-5263
919-661-6351 office
919-661-6350 fax
919-880-3446 mobile

Appendix D: Unique & Prime Farmland Impact Rating Form

FARMLAND CONVERSION IMPACT RATING

PART I <i>(To be completed by Federal Agency)</i>	Date Of Land Evaluation Request
Name Of Project	Federal Agency Involved
Proposed Land Use	County And State

PART II <i>(To be completed by NRCS)</i>		Date Request Received By NRCS	
Does the site contain prime, unique, statewide or local important farmland? <i>(If no, the FPPA does not apply -- do not complete additional parts of this form).</i>	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Average Farm Size
Major Crop(s)	Farmable Land In Govt. Jurisdiction Acres: %	Amount Of Farmland As Defined in FPPA Acres: %	
Name Of Land Evaluation System Used	Name Of Local Site Assessment System	Date Land Evaluation Returned By NRCS	

PART III <i>(To be completed by Federal Agency)</i>	Alternative Site Rating			
	Site A	Site B	Site C	Site D
A. Total Acres To Be Converted Directly				
B. Total Acres To Be Converted Indirectly				
C. Total Acres In Site				

PART IV <i>(To be completed by NRCS)</i> Land Evaluation Information				
A. Total Acres Prime And Unique Farmland				
B. Total Acres Statewide And Local Important Farmland				
C. Percentage Of Farmland In County Or Local Govt. Unit To Be Converted	0.0001			
D. Percentage Of Farmland In Govt. Jurisdiction With Same Or Higher Relative Value				

PART V <i>(To be completed by NRCS)</i> Land Evaluation Criterion Relative Value Of Farmland To Be Converted <i>(Scale of 0 to 100 Points)</i>				

PART VI <i>(To be completed by Federal Agency)</i>	Maximum Points				
<i>Site Assessment Criteria (These criteria are explained in 7 CFR 658.5(b))</i>					
1. Area In Nonurban Use					
2. Perimeter In Nonurban Use					
3. Percent Of Site Being Farmed					
4. Protection Provided By State And Local Government					
5. Distance From Urban Builtup Area					
6. Distance To Urban Support Services					
7. Size Of Present Farm Unit Compared To Average					
8. Creation Of Nonfarmable Farmland					
9. Availability Of Farm Support Services					
10. On-Farm Investments					
11. Effects Of Conversion On Farm Support Services					
12. Compatibility With Existing Agricultural Use					
TOTAL SITE ASSESSMENT POINTS	160				

PART VII <i>(To be completed by Federal Agency)</i>					
Relative Value Of Farmland <i>(From Part V)</i>	100				
Total Site Assessment <i>(From Part VI above or a local site assessment)</i>	160				
TOTAL POINTS <i>(Total of above 2 lines)</i>	260				

Site Selected:	Date Of Selection	Was A Local Site Assessment Used? Yes <input type="checkbox"/> No <input type="checkbox"/>
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Reason For Selection:

STEPS IN THE PROCESSING THE FARMLAND AND CONVERSION IMPACT RATING FORM

Step 1 – Federal agencies involved in proposed projects that may convert farmland, as defined in the Farmland Protection Policy Act (FPPA) to nonagricultural uses, will initially complete Parts I and III of the form.

Step 2 – Originator will send copies A, B and C together with maps indicating locations of site(s), to the Natural Resources Conservation Service (NRCS) local field office and retain copy D for their files. (Note: NRCS has a field office in most counties in the U.S. The field office is usually located in the county seat. A list of field office locations are available from the NRCS State Conservationist in each state).

Step 3 – NRCS will, within 45 calendar days after receipt of form, make a determination as to whether the site(s) of the proposed project contains prime, unique, statewide or local important farmland.

Step 4 – In cases where farmland covered by the FPPA will be converted by the proposed project, NRCS field offices will complete Parts II, IV and V of the form.

Step 5 – NRCS will return copy A and B of the form to the Federal agency involved in the project. (Copy C will be retained for NRCS records).

Step 6 – The Federal agency involved in the proposed project will complete Parts VI and VII of the form.

Step 7 – The Federal agency involved in the proposed project will make a determination as to whether the proposed conversion is consistent with the FPPA and the agency's internal policies.

INSTRUCTIONS FOR COMPLETING THE FARMLAND CONVERSION IMPACT RATING FORM

Part I: In completing the "County And State" questions list all the local governments that are responsible for local land controls where site(s) are to be evaluated.

Part III: In completing item B (Total Acres To Be Converted Indirectly), include the following:

1. Acres not being directly converted but that would no longer be capable of being farmed after the conversion, because the conversion would restrict access to them.
2. Acres planned to receive services from an infrastructure project as indicated in the project justification (e.g. highways, utilities) that will cause a direct conversion.

Part VI: Do not complete Part VI if a local site assessment is used.

Assign the maximum points for each site assessment criterion as shown in § 658.5 (b) of CFR. In cases of corridor-type projects such as transportation, powerline and flood control, criteria #5 and #6 will not apply and will, be weighed zero, however, criterion #8 will be weighed a maximum of 25 points, and criterion #11 a maximum of 25 points.

Individual Federal agencies at the national level, may assign relative weights among the 12 site assessment criteria other than those shown in the FPPA rule. In all cases where other weights are assigned relative adjustments must be made to maintain the maximum total weight points at 160.

In rating alternative sites, Federal agencies shall consider each of the criteria and assign points within the limits established in the FPPA rule. Sites most suitable for protection under these criteria will receive the highest total scores, and sites least suitable, the lowest scores.

Part VII: In computing the "Total Site Assessment Points" where a State or local site assessment is used and the total maximum number of points is other than 160, adjust the site assessment points to a base of 160. Example: if the Site Assessment maximum is 200 points, and alternative Site "A" is rated 180 points:

Total points assigned Site A = $\frac{180}{200} \times 160 = 144$ points for Site "A."

Maximum points possible 200

Site Assessment Scoring for the Twelve Factors Used in FPPA

The Site Assessment criteria used in the Farmland Protection Policy Act (FPPA) rule are designed to assess important factors other than the agricultural value of the land when determining which alternative sites should receive the highest level of protection from conversion to non agricultural uses.

Twelve factors are used for Site Assessment and ten factors for corridor-type sites. Each factor is listed in an outline form, without detailed definitions or guidelines to follow in the rating process. The purpose of this document is to expand the definitions of use of each of the twelve Site Assessment factors so that all persons can have a clear understanding as to what each factor is intended to evaluate and how points are assigned for given conditions.

In each of the 12 factors a number rating system is used to determine which sites deserve the most protection from conversion to non-farm uses. The higher the number value given to a proposed site, the more protection it will receive. The maximum scores are 10, 15 and 20 points, depending upon the relative importance of each particular question. If a question significantly relates to why a parcel of land should not be converted, the question has a maximum possible protection value of 20, whereas a question which does not have such a significant impact upon whether a site would be converted, would have fewer maximum points possible, for example 10.

The following guidelines should be used in rating the twelve Site Assessment criteria:

1. How much land is in non-urban use within a radius of 1.0 mile from where the project is intended?

More than 90 percent:	15 points
90-20 percent:	14 to 1 points
Less than 20 percent:	0 points

This factor is designed to evaluate the extent to which the area within one mile of the proposed site is non-urban area. For purposes of this rule, "non-urban" should include:

- Agricultural land (crop-fruit trees, nuts, oilseed)
- Range land
- Forest land
- Golf Courses
- Non paved parks and recreational areas
- Mining sites
- Farm Storage
- Lakes, ponds and other water bodies
- Rural roads, and through roads without houses or buildings
- Open space
- Wetlands
- Fish production
- Pasture or hayland

Urban uses include:

- Houses (other than farm houses)
- Apartment buildings
- Commercial buildings
- Industrial buildings
- Paved recreational areas (i.e. tennis courts)
- Streets in areas with 30 structures per 40 acres
- Gas stations

- Equipment, supply stores
- Off-farm storage
- Processing plants
- Shopping malls
- Utilities/Services
- Medical buildings

In rating this factor, an area one-mile from the outer edge of the proposed site should be outlined on a current photo; the areas that are urban should be outlined. For rural houses and other buildings with unknown sizes, use 1 and 1/3 acres per structure. For roads with houses on only one side, use one half of road for urban and one half for non-urban.

The purpose of this rating process is to insure that the most valuable and viable farmlands are protected from development projects sponsored by the Federal Government. With this goal in mind, factor S1 suggests that the more agricultural lands surrounding the parcel boundary in question, the more protection from development this site should receive. Accordingly, a site with a large quantity of non-urban land surrounding it will receive a greater number of points for protection from development. Thus, where more than 90 percent of the area around the proposed site (do not include the proposed site in this assessment) is non-urban, assign 15 points. Where 20 percent or less is non-urban, assign 0 points. Where the area lies between 20 and 90 percent non-urban, assign appropriate points from 14 to 1, as noted below.

Percent Non-Urban Land within 1 mile	Points
90 percent or greater	15
85 to 89 percent	14
80 to 84 percent	13
75 to 79 percent	12
70 to 74 percent	11
65 to 69 percent	10
60 to 64 percent	9
55 to 59 percent	8
50 to 54 percent	7
45 to 49 percent	6
40 to 44 percent	5
35 to 39 percent	4
30 to 24 percent	3
25 to 29 percent	2
21 to 24 percent	1
20 percent or less	0

2. How much of the perimeter of the site borders on land in non-urban use?

More than 90 percent:	10 points
90 to 20 percent:	9 to 1 point(s)
Less than 20 percent:	0 points

This factor is designed to evaluate the extent to which the land adjacent to the proposed site is non-urban use. Where factor #1 evaluates the general location of the proposed site, this factor evaluates the immediate perimeter of the site. The definition of urban and non-urban uses in factor #1 should be used for this factor.

In rating the second factor, measure the perimeter of the site that is in non-urban and urban use. Where more than 90 percent of the perimeter is in non-urban use, score this factor 10 points. Where less than 20 percent, assign 0 points. If a road is next to the perimeter, class the area according to the

use on the other side of the road for that area. Use 1 and 1/3 acre per structure if not otherwise known. Where 20 to 90 percent of the perimeter is non-urban, assign points as noted below:

Percentage of Perimeter Bordering Land	Points
90 percent or greater	10
82 to 89 percent	9
74 to 81 percent	8
65 to 73 percent	7
58 to 65 percent	6
50 to 57 percent	5
42 to 49 percent	4
34 to 41 percent	3
27 to 33 percent	2
21 to 26 percent	1
20 percent or Less	0

3. How much of the site has been farmed (managed for a scheduled harvest or timber activity) more than five of the last ten years?

More than 90 percent:	20 points
90 to 20 percent:	19 to 1 point(s)
Less than 20 percent:	0 points

This factor is designed to evaluate the extent to which the proposed conversion site has been used or managed for agricultural purposes in the past 10 years.

Land is being farmed when it is used or managed for food or fiber, to include timber products, fruit, nuts, grapes, grain, forage, oil seed, fish and meat, poultry and dairy products.

Land that has been left to grow up to native vegetation without management or harvest will be considered as abandoned and therefore not farmed. The proposed conversion site should be evaluated and rated according to the percent, of the site farmed.

If more than 90 percent of the site has been farmed 5 of the last 10 years score the site as follows:

Percentage of Site Farmed	Points
90 percent or greater	20
86 to 89 percent	19
82 to 85 percent	18
78 to 81 percent	17
74 to 77 percent	16
70 to 73 percent	15
66 to 69 percent	14
62 to 65 percent	13
58 to 61 percent	12
54 to 57 percent	11
50 to 53 percent	10
46 to 49 percent	9
42 to 45 percent	8
38 to 41 percent	7
35 to 37 percent	6
32 to 34 percent	5
29 to 31 percent	4
26 to 28 percent	3

23 to 25 percent	2
20 to 22 percent percent or Less	1
Less than 20 percent	0

4. Is the site subject to state or unit of local government policies or programs to protect farmland or covered by private programs to protect farmland?

Site is protected:	20 points
Site is not protected:	0 points

This factor is designed to evaluate the extent to which state and local government and private programs have made efforts to protect this site from conversion.

State and local policies and programs to protect farmland include:

State Policies and Programs to Protect Farmland

1. Tax Relief:

A. Differential Assessment: Agricultural lands are taxed on their agricultural use value, rather than at market value. As a result, farmers pay fewer taxes on their land, which helps keep them in business, and therefore helps to insure that the farmland will not be converted to nonagricultural uses.

1. Preferential Assessment for Property Tax: Landowners with parcels of land used for agriculture are given the privilege of differential assessment.
2. Deferred Taxation for Property Tax: Landowners are deterred from converting their land to nonfarm uses, because if they do so, they must pay back taxes at market value.
3. Restrictive Agreement for Property Tax: Landowners who want to receive Differential Assessment must agree to keep their land in - eligible use.

B. Income Tax Credits

Circuit Breaker Tax Credits: Authorize an eligible owner of farmland to apply some or all of the property taxes on his or her farmland and farm structures as a tax credit against the owner's state income tax.

C. Estate and Inheritance Tax Benefits

Farm Use Valuation for Death Tax: Exemption of state tax liability to eligible farm estates.

2. "Right to farm" laws:

Prohibits local governments from enacting laws which will place restrictions upon normally accepted farming practices, for example, the generation of noise, odor or dust.

3. Agricultural Districting:

Wherein farmers voluntarily organize districts of agricultural land to be legally recognized geographic areas. These farmers receive benefits, such as protection from annexation, in exchange for keeping land within the district for a given number of years.

4. Land Use Controls: Agricultural Zoning.

Types of Agricultural Zoning Ordinances include:

- A. Exclusive: In which the agricultural zone is restricted to only farm-related dwellings, with, for example, a minimum of 40 acres per dwelling unit.
- B. Non-Exclusive: In which non-farm dwellings are allowed, but the density remains low, such as 20 acres per dwelling unit.

Additional Zoning techniques include:

- A. Sliding Scale: This method looks at zoning according to the total size of the parcel owned. For example, the number of dwelling units per a given number of acres may change from county to county according to the existing land acreage to dwelling unit ratio of surrounding parcels of land within the specific area.
- B. Point System or Numerical Approach: Approaches land use permits on a case by case basis.

LESA: The LESA system (Land Evaluation-Site Assessment) is used as a tool to help assess options for land use on an evaluation of productivity weighed against commitment to urban development.
- C. Conditional Use: Based upon the evaluation on a case by case basis by the Board of Zoning Adjustment. Also may include the method of using special land use permits.

5. Development Rights:

- A. Purchase of Development Rights (PDR): Where development rights are purchased by Government action.

Buffer Zoning Districts: Buffer Zoning Districts are an example of land purchased by Government action. This land is included in zoning ordinances in order to preserve and protect agricultural lands from non-farm land uses encroaching upon them.

- B. Transfer of Development Rights (TDR): Development rights are transferable for use in other locations designated as receiving areas. TDR is considered a locally based action (not state), because it requires a voluntary decision on the part of the individual landowners.

6. Governor's Executive Order: Policy made by the Governor, stating the importance of agriculture, and the preservation of agricultural lands. The Governor orders the state agencies to avoid the unnecessary conversion of important farmland to nonagricultural uses.

7. Voluntary State Programs:

- A. California's Program of Restrictive Agreements and Differential Assessments: The California Land Conservation Act of 1965, commonly known as the Williamson Act, allows cities, counties and individual landowners to form agricultural preserves and enter into contracts for 10 or more years to insure that these parcels of land remain strictly for agricultural use. Since 1972 the Act has extended eligibility to recreational and open space lands such as scenic highway corridors, salt ponds and wildlife preserves. These contractually restricted lands may be taxed differentially for their real value. One hundred-acre districts constitute the minimum land size eligible.

Suggestion: An improved version of the Act would state that if the land is converted after the contract expires, the landowner must pay the difference in the taxes between market value for the land and the agricultural tax value which he or she had been

paying under the Act. This measure would help to insure that farmland would not be converted after the 10 year period ends.

- B. Maryland Agricultural Land Preservation Program: Agricultural landowners within agricultural districts have the opportunity to sell their development rights to the Maryland Land Preservation Foundation under the agreement that these landowners will not subdivide or develop their land for an initial period of five years. After five years the landowner may terminate the agreement with one year notice.

As is stated above under the California Williamson Act, the landowner should pay the back taxes on the property if he or she decides to convert the land after the contract expires, in order to discourage such conversions.

- C. Wisconsin Income Tax Incentive Program: The Wisconsin Farmland Preservation Program of December 1977 encourages local jurisdictions in Wisconsin to adopt agricultural preservation plans or exclusive agricultural district zoning ordinances in exchange for credit against state income tax and exemption from special utility assessment. Eligible candidates include local governments and landowners with at least 35 acres of land per dwelling unit in agricultural use and gross farm profits of at least \$6,000 per year, or \$18,000 over three years.

8. Mandatory State Programs:

- A. The Environmental Control Act in the state of Vermont was adopted in 1970 by the Vermont State Legislature. The Act established an environmental board with 9 members (appointed by the Governor) to implement a planning process and a permit system to screen most subdivisions and development proposals according to specific criteria stated in the law. The planning process consists of an interim and a final Land Capability and Development Plan, the latter of which acts as a policy plan to control development. The policies are written in order to:
- prevent air and water pollution;
 - protect scenic or natural beauty, historic sites and rare and irreplaceable natural areas; and
 - consider the impacts of growth and reduction of development on areas of primary agricultural soils.
- B. The California State Coastal Commission: In 1976 the Coastal Act was passed to establish a permanent Coastal Commission with permit and planning authority. The purpose of the Coastal Commission was and is to protect the sensitive coastal zone environment and its resources, while accommodating the social and economic needs of the state. The Commission has the power to regulate development in the coastal zones by issuing permits on a case by case basis until local agencies can develop their own coastal plans, which must be certified by the Coastal Commission.
- C. Hawaii's Program of State Zoning: In 1961, the Hawaii State Legislature established Act 187, the Land Use Law, to protect the farmland and the welfare of the local people of Hawaii by planning to avoid "unnecessary urbanization". The Law made all state lands into four districts: agricultural, conservation, rural and urban. The Governor appointed members to a State Land Use Commission, whose duties were to uphold the Law and form the boundaries of the four districts. In addition to state zoning, the Land Use Law introduced a program of Differential Assessment, wherein agricultural landowners paid taxes on their land for its agricultural use value, rather than its market value.
- D. The Oregon Land Use Act of 1973: This act established the Land Conservation and Development Commission (LCDC) to provide statewide planning goals and guidelines.

Under this Act, Oregon cities and counties are each required to draw up a comprehensive plan, consistent with statewide planning goals. Agricultural land preservation is high on the list of state goals to be followed locally.

If the proposed site is subject to or has used one or more of the above farmland protection programs or policies, score the site 20 points. If none of the above policies or programs apply to this site, score 0 points.

5. How close is the site to an urban built-up area?

The site is 2 miles or more from an urban built-up area	15 points
The site is more than 1 mile but less than 2 miles from an urban built-up area	10 points
The site is less than 1 mile from, but is not adjacent to an urban built-up area	5 points
The site is adjacent to an urban built-up area	0 points

This factor is designed to evaluate the extent to which the proposed site is located next to an existing urban area. The urban built-up area must be 2500 population. The measurement from the built-up area should be made from the point at which the density is 30 structures per 40 acres and with no open or non-urban land existing between the major built-up areas and this point. Suburbs adjacent to cities or urban built-up areas should be considered as part of that urban area.

For greater accuracy, use the following chart to determine how much protection the site should receive according to its distance from an urban area. See chart below:

Distance From Perimeter of Site to Urban Area	Points
More than 10,560 feet	15
9,860 to 10,559 feet	14
9,160 to 9,859 feet	13
8,460 to 9,159 feet	12
7,760 to 8,459 feet	11
7,060 to 7,759 feet	10
6,360 to 7,059 feet	9
5,660 to 6,359 feet	8
4,960 to 5,659 feet	7
4,260 to 4,959 feet	6
3,560 to 4,259 feet	5
2,860 to 3,559 feet	4
2,160 to 2,859 feet	3
1,460 to 2,159 feet	2
760 to 1,459 feet	1
Less than 760 feet (adjacent)	0

6. How close is the site to water lines, sewer lines and/or other local facilities and services whose capacities and design would promote nonagricultural use?

None of the services exist nearer than 3 miles from the site	15 points
Some of the services exist more than one but less than 3 miles from the site	10 points
All of the services exist within 1/2 mile of the site	0 points

This question determines how much infrastructure (water, sewer, etc.) is in place which could facilitate nonagricultural development. The fewer facilities in place, the more difficult it is to develop an area. Thus, if a proposed site is further away from these services (more than 3 miles distance away), the site should be awarded the highest number of points (15). As the distance of the parcel of land to services decreases, the number of points awarded declines as well. So, when the site is equal to or further than 1 mile but less than 3 miles away from services, it should be given 10 points. Accordingly, if this distance is 1/2 mile to less than 1 mile, award 5 points; and if the distance from land to services is less than 1/2 mile, award 0 points.

Distance to public facilities should be measured from the perimeter of the parcel in question to the nearest site(s) where necessary facilities are located. If there is more than one distance (i.e. from site to water and from site to sewer), use the average distance (add all distances and then divide by the number of different distances to get the average).

Facilities which could promote nonagricultural use include:

- Water lines
- Sewer lines
- Power lines
- Gas lines
- Circulation (roads)
- Fire and police protection
- Schools

7. Is the farm unit(s) containing the site (before the project) as large as the average-size farming unit in the county? (Average farm sizes in each county are available from the NRCS field offices in each state. Data are from the latest available Census of Agriculture, Acreage of Farm Units in Operation with \$1,000 or more in sales.)

As large or larger:	10 points
Below average: Deduct 1 point for each 5 percent below the average, down to 0 points if 50 percent or more is below average	9 to 0 points

This factor is designed to determine how much protection the site should receive, according to its size in relation to the average size of farming units within the county. The larger the parcel of land, the more agricultural use value the land possesses, and vice versa. Thus, if the farm unit is as large or larger than the county average, it receives the maximum number of points (10). The smaller the parcel of land compared to the county average, the fewer number of points given. Please see below:

Parcel Size in Relation to Average County Size	Points
Same size or larger than average (100 percent)	10
95 percent of average	9
90 percent of average	8
85 percent of average	7
80 percent of average	6
75 percent of average	5
70 percent of average	4
65 percent of average	3
60 percent of average	2
55 percent of average	1
50 percent or below county average	0

State and local Natural Resources Conservation Service offices will have the average farm size information, provided by the latest available Census of Agriculture data

8. If this site is chosen for the project, how much of the remaining land on the farm will become non-farmable because of interference with land patterns?

Acreage equal to more than 25 percent of acres directly converted by the project	10 points
Acreage equal to between 25 and 5 percent of the acres directly converted by the project	9 to 1 point(s)
Acreage equal to less than 5 percent of the acres directly converted by the project	0 points

This factor tackles the question of how the proposed development will affect the rest of the land on the farm. The site which deserves the most protection from conversion will receive the greatest number of points, and vice versa. For example, if the project is small, such as an extension on a house, the rest of the agricultural land would remain farmable, and thus a lower number of points is given to the site. Whereas if a large-scale highway is planned, a greater portion of the land (not including the site) will become non-farmable, since access to the farmland will be blocked; and thus, the site should receive the highest number of points (10) as protection from conversion.

Conversion uses of the Site Which Would Make the Rest of the Land Non-Farmable by Interfering with Land Patterns

Conversions which make the rest of the property nonfarmable include any development which blocks accessibility to the rest of the site. Examples are highways, railroads, dams or development along the front of a site restricting access to the rest of the property.

The point scoring is as follows:

Amount of Land Not Including the Site Which Will Become Non-Farmable	Points
25 percent or greater	10
23 - 24 percent	9
21 - 22 percent	8
19 - 20 percent	7
17 - 18 percent	6
15 - 16 percent	5
13 - 14 percent	4
11 - 12 percent	3
9 - 11 percent	2
6 - 8 percent	1
5 percent or less	0

9. Does the site have available adequate supply of farm support services and markets, i.e., farm suppliers, equipment dealers, processing and storage facilities and farmer's markets?

All required services are available	5 points
Some required services are available	4 to 1 point(s)
No required services are available	0 points

This factor is used to assess whether there are adequate support facilities, activities and industry to keep the farming business in business. The more support facilities available to the agricultural

landowner, the more feasible it is for him or her to stay in production. In addition, agricultural support facilities are compatible with farmland. This fact is important, because some land uses are not compatible; for example, development next to farmland can be dangerous to the welfare of the agricultural land, as a result of pressure from the neighbors who often do not appreciate the noise, smells and dust intrinsic to farmland. Thus, when all required agricultural support services are available, the maximum number of points (5) are awarded. When some services are available, 4 to 1 point(s) are awarded; and consequently, when no services are available, no points are given. See below:

Percent of Services Available	Points
100 percent	5
75 to 99 percent	4
50 to 74 percent	3
25 to 49 percent	2
1 to 24 percent	1
No services	0

10. Does the site have substantial and well-maintained on farm investments such as barns, other storage buildings, fruit trees and vines, field terraces, drainage, irrigation, waterways, or other soil and water conservation measures?

High amount of on-farm investment	20 points
Moderate amount of non-farm investment	19 to 1 point(s)
No on-farm investments	0 points

This factor assesses the quantity of agricultural facilities in place on the proposed site. If a significant agricultural infrastructure exists, the site should continue to be used for farming, and thus the parcel will receive the highest amount of points towards protection from conversion or development. If there is little on farm investment, the site will receive comparatively less protection. See-below:

Amount of On-farm Investment	Points
As much or more than necessary to maintain production (100 percent)	20
95 to 99 percent	19
90 to 94 percent	18
85 to 89 percent	17
80 to 84 percent	16
75 to 79 percent	15
70 to 74 percent	14
65 to 69 percent	13
60 to 64 percent	12
55 to 59 percent	11
50 to 54 percent	10
45 to 49 percent	9
40 to 44 percent	8
35 to 39 percent	7
30 to 34 percent	6
25 to 29 percent	5
20 to 24 percent	4
15 to 19 percent	3
10 to 14 percent	2
5 to 9 percent	1
0 to 4 percent	0

11. Would the project at this site, by converting farmland to nonagricultural use, reduce the support for farm support services so as to jeopardize the continued existence of these support services and thus, the viability of the farms remaining in the area?

Substantial reduction in demand for support services if the site is converted	10 points
Some reduction in demand for support services if the site is converted	9 to 1 point(s)
No significant reduction in demand for support services if the site is converted	0 points

This factor determines whether there are other agriculturally related activities, businesses or jobs dependent upon the working of the pre-converted site in order for the others to remain in production. The more people and farming activities relying upon this land, the more protection it should receive from conversion. Thus, if a substantial reduction in demand for support services were to occur as a result of conversions, the proposed site would receive a high score of 10; some reduction in demand would receive 9 to 1 point(s), and no significant reduction in demand would receive no points.

Specific points are outlined as follows:

Amount of Reduction in Support Services if Site is Converted to Nonagricultural Use	Points
Substantial reduction (100 percent)	10
90 to 99 percent	9
80 to 89 percent	8
70 to 79 percent	7
60 to 69 percent	6
50 to 59 percent	5
40 to 49 percent	4
30 to 39 percent	3
20 to 29 percent	2
10 to 19 percent	1
No significant reduction (0 to 9 percent)	0

12. Is the kind and intensity of the proposed use of the site sufficiently incompatible with agriculture that it is likely to contribute to the eventual conversion of the surrounding farmland to nonagricultural use?

Proposed project is incompatible with existing agricultural use of surrounding farmland	10 points
Proposed project is tolerable of existing agricultural use of surrounding farmland	9 to 1 point(s)
Proposed project is fully compatible with existing agricultural use of surrounding farmland	0 points

Factor 12 determines whether conversion of the proposed agricultural site will eventually cause the conversion of neighboring farmland as a result of incompatibility of use of the first with the latter. The more incompatible the proposed conversion is with agriculture, the more protection this site receives from conversion. Therefore, if the proposed conversion is incompatible with agriculture, the site receives 10 points. If the project is tolerable with agriculture, it receives 9 to 1 points; and if the proposed conversion is compatible with agriculture, it receives 0 points.

CORRIDOR - TYPE SITE ASSESSMENT CRITERIA

The following criteria are to be used for projects that have a linear or corridor - type site configuration connecting two distant points, and crossing several different tracts of land. These include utility lines, highways, railroads, stream improvements, and flood control systems. Federal agencies are to assess the suitability of each corridor-type site or design alternative for protection as farmland along with the land evaluation information.

For Water and Waste Programs, corridor analyses are not applicable for distribution or collection networks. Analyses are applicable for transmission or trunk lines where placement of the lines are flexible.

(1) How much land is in nonurban use within a radius of 1.0 mile form where the project is intended?

- | | |
|--------------------------|-----------------------|
| (2) More than 90 percent | (3) 15 points |
| (4) 90 to 20 percent | (5) 14 to 1 point(s). |
| (6) Less than 20 percent | (7) 0 points |

(2) How much of the perimeter of the site borders on land in nonurban use?

- | | |
|--------------------------|-------------------|
| (3) More than 90 percent | (4) 10 point(s) |
| (5) 90 to 20 percent | (6) 9 to 1 points |
| (7) less than 20 percent | (8) 0 points |

(3) How much of the site has been farmed (managed for a scheduled harvest or timber activity) more than five of the last 10 years?

- | | |
|--------------------------|----------------------|
| (4) More than 90 percent | (5) 20 points |
| (6) 90 to 20 percent | (7) 19 to 1 point(s) |
| (8) Less than 20 percent | (9) 0 points |

(4) Is the site subject to state or unit of local government policies or programs to protect farmland or covered by private programs to protect farmland?

- | | |
|-----------------------|-----------|
| Site is protected | 20 points |
| Site is not protected | 0 points |

(5) Is the farm unit(s) containing the site (before the project) as large as the average - size farming unit in the County? (Average farm sizes in each county are available from the NRCS field offices in each state. Data are from the latest available Census of Agriculture, Acreage of Farm Units in Operation with \$1,000 or more in sales.)

- | | |
|---|---------------|
| As large or larger | 10 points |
| Below average deduct 1 point for each 5 percent below the average, down to 0 points if 50 percent or more below average | 9 to 0 points |

(6) If the site is chosen for the project, how much of the remaining land on the farm will become non-farmable because of interference with land patterns?

- | | |
|--|------------------|
| Acreage equal to more than 25 percent of acres directly converted by the project | 25 points |
| Acreage equal to between 25 and 5 percent of the acres directly converted by the project | 1 to 24 point(s) |
| Acreage equal to less than 5 percent of the acres directly converted by the project | 0 points |

(7) Does the site have available adequate supply of farm support services and markets, i.e., farm suppliers, equipment dealers, processing and storage facilities and farmer's markets?

All required services are available	5 points
Some required services are available	4 to 1 point(s)
No required services are available	0 points

(8) Does the site have substantial and well-maintained on-farm investments such as barns, other storage building, fruit trees and vines, field terraces, drainage, irrigation, waterways, or other soil and water conservation measures?

High amount of on-farm investment	20 points
Moderate amount of on-farm investment	19 to 1 point(s)
No on-farm investment	0 points

(9) Would the project at this site, by converting farmland to nonagricultural use, reduce the demand for farm support services so as to jeopardize the continued existence of these support services and thus, the viability of the farms remaining in the area?

Substantial reduction in demand for support services if the site is converted	25 points
Some reduction in demand for support services if the site is converted	1 to 24 point(s)
No significant reduction in demand for support services if the site is converted	0 points

(10) Is the kind and intensity of the proposed use of the site sufficiently incompatible with agriculture that it is likely to contribute to the eventual conversion of surrounding farmland to nonagricultural use?

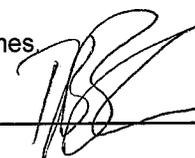
Proposed project is incompatible to existing agricultural use of surrounding farmland	10 points
Proposed project is tolerable to existing agricultural use of surrounding farmland	9 to 1 point(s)
Proposed project is fully compatible with existing agricultural use of surrounding farmland	0 points

Appendix E: DHS Public Notice

STATE OF NORTH CAROLINA,
PERSON COUNTY

PRINTER'S AFFIDAVIT

T.P. Brinn Clayton, being duly sworn,
deposes and says: That he/she is Publisher of
The Courier-Times, with its principle place of business
located in the city of Roxboro, County of Person, State
of North Carolina; that the foregoing or attached
newspaper notice was published in The Courier-Times,
once a week for 1 successive weeks, beginning with
its issue of 3rd day of March, 20 12,
and ending with its issue of 3rd day of
March, 20 12; that The Courier-Times, is
the sole owner and publisher of said newspaper,

The Courier-Times,

_____ (Affiant)

Sworn to and subscribed before me,
this the 8th day of March, 20 12
Denise E. Reaves (Notary Public)
My commission expires the 29th day of September, 20 14

(Publication Fee \$ 60.22)

(Notarial Seal)

Public Notice
The North Carolina Department of Crime Control and Public Safety, the North Carolina State Highway Patrol and the Federal Emergency Management Agency (FEMA) - U.S. Department of Homeland Security (DHS) are requesting comment regarding the construction of a proposed 280-ft (295-ft with appurtenances) AGL Self-Support Emergency Services Tower to be located off of Critcher-Wilkerson Road, approximately 0.2 miles northwest of the intersection of Critcher-Wilkerson Road and Wesleyan Heights Road, southwest of the Town of Roxboro, Person County, NC, 27573, at latitude: N 36° 23' 00.3", longitude: W 79° 00' 3.5" (NAD '83), and (Person County PIN 0905-05-08-1178.000). We are also requesting comment, in accordance with Section 106 of the National Historic Preservation Act (NHPA), regarding the potential impacts to historical or archaeological properties listed on, or eligible for listing on the National Register of Historic Places (NRHP), by the proposed emergency services tower. All comments should be submitted within 30 days of the publication of this notice, referencing project: Roxboro HP-1234, NC HSGP 2009-SS0T9-0046 PIMS 11726 and sent to the attention of George Swearingen, Tower Engineering Professionals Inc, 3703 Junction Blvd, Raleigh, NC, 27603. Mr. Swearingen may also be reached via email at gswearingen@tepgroup.net via telephone at (919) 661-6351

APPENDIX F: Preparer's Resume



George T. Swearingen, III

Environmental Division Manager

EDUCATION

North Carolina State University, Raleigh, NC
Degree: Bachelor of Science (1996)
Major: School of Forest Resources - Natural Resources: Ecosystem Assessment

WORK SUMMARY

Tower Engineering Professionals, Inc. Raleigh, NC (December 1, 1999 – present)

- Environmental Division Manager
- Managed the completion of ~1000+/- Phase I Environmental Site Assessments (ESA) throughout the United States (NC, SC, GA, FL, VA, TN, KY, NJ, MA, OH, IL, TX, NM, CO, WY, MT, AZ, UT, NV).
- Managed the completion of ~1000+/- National Environmental Policy Act (NEPA) (FCC Compliance Checklists).
- Wetland Delineations, Federal & State Wetland Impact Permits, Endangered Species surveys, Section 106 Compliance surveys, Native American Consultation, etc.
- Supervised the completion of ~100+/- Phases II ESA's for Communications towers in the United States.
- Managed the completion of ~50 NEPA Environmental Assessments (NEPA – EA) due to issues discovered during the initial NEPA Checklist screening process.
- Restored and/or stabilized ~3+/- miles of perennial streams in North Carolina as a Licensed North Carolina General Contractor with the City of Raleigh, NC, and as a contractor for the NC Dept. Environment & Natural Resources – Ecosystem Enhancement Program (formerly the NCDENR – Wetlands Restoration Program).

KCI Associates of NC, Raleigh, NC (May 30, 1996 – November 30, 1999)

- Environmental Scientist I & II
- Conducted and supervised the completion of Phase I - Environmental Site Assessments (ESA) for proposed Telecommunication tower projects and various commercial real-estate transactions for numerous banks.
- Conducted and supervised the completion of National Environmental Policy Act (NEPA) Checklist documents for proposed and existing Telecommunication tower projects and stream restoration projects.
- Assisted in the completion of Phase II – ESA sampling for various proposed Communications tower facilities in North Carolina, Maryland, and Virginia.
- Project Manager for NCDOT Stream & Wetland Mitigation watershed searches for the Catawba, Neuse, and Yadkin River Watersheds. Completed the field work, research, and GIS analysis necessary to provided suitable properties for the restoration of former wetland sites for the purpose of mitigation.
- Assisted in the design and construction of numerous stream restoration and stabilization sites in North Carolina and Maryland.
- Supervised and assisted in the completion of on-site wastewater disposal soil analysis for residential and commercial development.
- Supervised and assisted in the completion of wetland boundary surveys for various types commercial development



Andrew B. Blake

Environmental Division – Environmental Scientist II

EDUCATION

North Carolina State University
Raleigh, NC – College of Natural Resources
Degree: Bachelor of Science (2011)
Major: Environmental Technology and Management
OSHA 40-hr HAZWOPER Certification

WORK SUMMARY

Tower Engineering Professionals, Inc. Raleigh, NC (December 2010 – present)

- Environmental Scientist II
- Assisted with the completion of Phase I - Environmental Site Assessments (ESA) for proposed Telecommunication tower projects throughout the southeastern United States (NC, SC, VA, GA, WV, TX IL, OH, FL, MD, UT, NV, AZ, WY, NM, CO and Canada).
- Assisted with the completion of National Environmental Policy Act (NEPA) Checklist (FCC Compliance Checklists) documents for proposed and existing Telecommunications tower projects.
- Assisted with the completion of NEPA Environmental Assessments (NEPA – EA) due to issues discovered during the initial NEPA Checklist screening process
- Completed Biological Assessments for Rare, Threatened and Endangered Species
- Assisted with Section 106 Compliance Surveys
- Completed Native American Consultation for proposed Telecommunication tower structures as per FCC-TCNS guidelines.
- Conducted the completion of perennial stream restoration and/or stabilizations for the City of Raleigh, NC

North Carolina State University Raleigh, NC (June 2010 – November 2010)

- Progress Energy/Environmental Technology Intern
- Assisted two graduate students in the Natural Resources - Ecological Restoration program at North Carolina State University evaluate and assess stream restoration projects throughout the Piedmont Region of North Carolina.
- Collected and assessed 1,000+ soil samples for chemical analysis and Bulk Density analysis
- Assessed the condition and installation of in-stream structures in previous stream restoration projects.
- Presented results of soil chemical analysis and bulk density testing at the North Carolina undergraduate research symposium at Meredith College in the November of 2010.