

**NC 24 FROM WEST OF SR 1006
(MAXWELL RD. / CLINTON RD.)
TO SR 1853 (JOHN NUNNERY RD.)**

**CUMBERLAND COUNTY, NORTH CAROLINA
NCDOT PROJECT: R-2303A, WBS 34416.1.1**

**UTILITY CONSTRUCTION
PROJECT SPECIAL PROVISIONS**



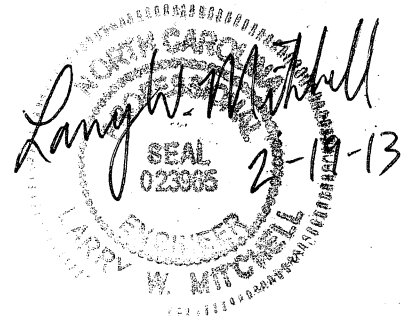
**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES AND ENCROACHMENTS ENGINEERING UNIT
1555 MAIL SERVICE CENTER
RALEIGH, NC 27699-1555**

February 19, 2013

Prepared By:



**Technical Services of North Carolina, Inc.
701 Corporate Center Drive, Suite 475
Raleigh, NC 27607-5238
PROJECT NO. 60185480**



PROJECT SPECIAL PROVISIONS
Utility Construction**I. GENERAL CONSTRUCTION REQUIREMENTS:****Specifications:**

The proposed utility construction shall meet the applicable requirements of the NC Department of Transportation's "Standard Specifications for Roads and Structures" dated January 2012, and the details as shown on the plans, as outlined in the following provisions, or as directed by the Engineer.

Revise the *2012 Standard Specifications* as follows:

Page 15-6, Subarticle 1510-3-(A) Construction Requirements, change the allowable leakage formula and use continuous feed method for chlorination of water lines:

$$W=LD(P)^{1/2} / 148,000$$

Flush the water line prior to sterilization to remove all debris and dirt. Use the continuous feed method for chlorinating the water line in accordance to AWWA C651, Section 4.4.3.

Owner and Owner's Requirements:

The existing water and sewer mains to be relocated are owned by the Town of Stedman. The water pump station and discharge water main supplying Autryville are owned by the Town of Autryville. The existing 12" water main and 8" sanitary sewer main on Maxwell Road are owned by the Fayetteville PWC. The improvements to these PWC mains are considered betterments. The Contractor shall provide access for the owners' representatives to all phases of construction. The owners shall be notified two weeks prior to commencement of any work and one week prior to service interruption. Only authorized personnel of the owners shall operate valves in the existing water distribution or sewer collection systems.

Nitrile Gaskets:

Proposed water main pipe to be installed in the vicinity of contaminated soil identified on the utility construction plans shall include nitrile gaskets in lieu of standard gaskets.

Water Pump Station:**Demolition of Existing Water Pump Station:**

Work shall include the demolition and removal, but not be limited to, the following:

1. Chain link fence and gate.
2. Asphalt driveway.
3. Exterior 6-inch DI pipe, fittings, valves and meter vault.
4. Electrical service.
5. Interior pumps, piping, valves, and fittings.
6. Brick building and foundation approximately 15 feet x 11 feet.

Proposed Water Pump Station:

Proposed water pump station shall include, but not be limited to, the following:

1. Duplex water pumps with a flow rate of 125 gpm at a Total Dynamic Head (TDH) of 50 feet and a 5 Hp motor.
2. 6-inch ductile iron (DI) piping, fittings, and valves to and from the building with meter vault.
3. 4-inch DI internal to the station with associated gate and check valves for proper operation and maintenance.
4. Electrical controls for pumps.
5. Electrical service.
6. Building approximately 15 feet x 11 feet with a brick exterior and a flat roof.
7. Chain link fence and gate.
8. Asphalt drive.

II. MEASUREMENT AND PAYMENT:

Nitrile Gaskets: will be measured and paid for per each gasket installed and shall include one gasket per bell end of pipe, two gaskets per valve, one gasket per fire hydrant, and three gaskets per tee. Payment is limited to material only.

Water Pump Station: will be measured and paid for lump sum. Payment will be inclusive of all work, materials, and equipment to include, but not limited to, site grading, building structure, pumps and appurtenances complete as shown on the plans.

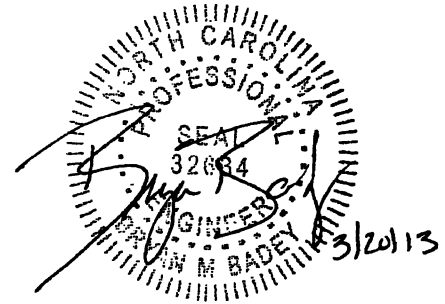
Revised 5-1-13

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Project: R-2303B
County: Sampson

Prepared by:

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FINAL PROJECT SPECIAL PROVISIONS

Sampson County; Water Line Construction
February 27,2013 - Revised March 20,2013

GENERAL CONSTRUCTION REQUIREMENTS:

Specifications:

The proposed utility construction shall meet the applicable requirements of the NC Department of Transportation "Standard Specifications for Roads and Structures" dated January 2012, Sampson County standard specifications and the provisions outlined below.

Contractor shall meet the installation standards of the AWWA or ASTM for water line construction.

Owner and Owner's Requirements:

The existing water mains are owned by Sampson County. The primary contact person for the County is Mr. Lee Cannady; office phone: (910) 592-0188. The contractor shall provide access for the owner's representatives to all phases of construction. The owner shall also be notified two (2) weeks prior to commencement of any work and one (1) week prior to service interruption. Interruption of water service on main lines shall be limited to a maximum of 4 hours during regular working hours unless approved otherwise by Sampson County Water Department.

It shall be the Contractor's responsibility to notify customers affected by necessary shut downs of the existing water system at least 24 hours in advance.

Only Sampson County Water Department personnel shall operate valves and hydrants except in the case of an emergency. Notify the County immediately of an emergency requiring valve or hydrant operation.

All removed water meters and fire hydrants shall be stockpiled by the Contractor in one area accessible for the owner to pick up.

Any cracked, damaged, or defective pipe, fittings, or other attachments discovered as a result of the pressure test, shall be removed and replaced with sound material. The tests shall be repeated until test results are satisfactory.

Revise the NCDOT 2012 "Standard Specifications for Roads and Structures" as follows:

Page 15-6, Sub article 1510-3 (A) Construction Requirements:

Follow the allowable leakage formula from the most current versions of AWWA C600 (for ductile iron pipe) or AWWA C605 (for PVC pipe). The allowable leakage formula is:

$$W=LD(P)Y^2 /148,000$$

For disinfection, use the "Continuous-Feed Method" as described in the most current version of AWWA C651, Section 4.4.3 and as directed in NCDENR "The Rules of Governing Public Water Systems", Section .1003. This method requires a solution of at least 50ppm chlorine to be introduced into the new pipe line and held for at least 24 hours. During this time, the residual concentration of chlorine shall remain at least 10ppm. If the chlorine concentration drops below 10ppm, the test shall be repeated. Collected samples shall be analyzed at a state approved laboratory and the result provided to the utility owner.

The testing, cleaning and sterilization shall be performed consecutively.

Utility Locations Shown on the Plans:

The locations, sizes, and type material of the existing utilities shown on the plans are from the best available information. The contractor will be responsible for determining the exact location, size, and type of material of the existing facilities necessary for the construction of the proposed utilities and to avoid damage to existing facilities. All water and sanitary sewer services disturbed during construction shall be reconnected, even if not shown on the plans. Contractor is to make the Engineer aware of any plan discrepancies.

Water line location in relation to sewers shall conform to NCDOT's 2012 "Standard Specifications for Roads and Structures" Section 1500-5 and NCDENR's "The Rules of Governing Public Water Systems" Section .0906.

Open Cut Installation:

All water line construction performed using open cut installation within or adjacent to traffic shall have the final approved traffic control measures in place prior to beginning any open cut installation.

Material Specifications:

When brand names of materials have been determined, the Contractor shall obtain approval, through the engineer and the owner prior to their use and/or installation.

Then Contractor shall furnish, but is not limited to furnishing, catalog cuts and/or shop drawings of the materials. Thirty days shall be allowed for the Engineer's review of each submittal. Eight copies of each catalog cut and/or shop drawing (signed and sealed) shall be submitted.

COMPENSATION:

No direct payment will be made for utility construction work required by the preceding provisions which are general requirements applying to utility construction, and all of the requirements stated will be considered incidental work, paid for at the previously agreed upon lump sum price.

1. Relocation of Water Booster Pump Station:

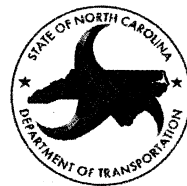
Contractor shall relocate the existing water booster pump station, portable generator and above ground propane storage tank. Prior to relocating the booster pump station the contractor shall clear and grub the new site than grade the site allowing a level area to place the relocated water booster pump station. The contractor shall construct a new concrete pad at least 4 inches thick with 4 inch of No. 67 stone as a base. The concrete pad shall match the dimension of the existing pad in length and width. The concrete shall be 3,000 psi concrete and the openings for the water line connections shall be formed prior to pouring the concrete. All water line connections to the booster pump station shall be preliminarily fitted together, making sure all connections are sizes properly and aligned to match up with the booster pump station pipes and fittings. All electrical work shall be performed by a licensed electrician in the State of North Carolina. Contractor shall coordinate with the power company to provide a new service pole with area light and a connection to the relocated meter box. Contractor shall reconnect all require electrical connection to the booster pump station and generator. Finally the contractor shall fence the new boost pump station site with galvanized chain link fence and a gate for access which matches the existing fence around the water booster pump station site.

Relocation of Water Booster Pump Station installed in accordance with the plans and provisions herein and accepted, will be measured and paid for at the contract lump sum price for "Relocation of Water Booster Pump Station". Such prices and payments will be full compensation for all materials, labor, equipment, excavation and incidentals necessary to complete the work as required.

**NC 24 FROM WEST OF
SR 1006 (MAXWELL RD. / CLINTON RD.) TO
SR 1853 (JOHN NUNNERY RD.)**

**CUMBERLAND COUNTY, NORTH CAROLINA
NCDOT PROJECT: R-2303A, WBS 34416.1.1**

**UTILITIES BY OTHERS
PROJECT SPECIAL PROVISIONS**



**NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
UTILITIES AND ENCROACHMENTS ENGINEERING UNIT
1555 MAIL SERVICE CENTER
RALEIGH, NC 27699-1555**

March 4, 2013

Prepared By:

AECOM

**Technical Services of North Carolina, Inc.
701 Corporate Center Drive, Suite 475
Raleigh, NC 27607-5238
PROJECT NO. 60185480**

PROJECT SPECIAL PROVISIONS**UTILITIES BY OTHERS:**

General:

The following utility companies have facilities that will be in conflict with the construction of this project:

- A) CenturyLink and Fayetteville PWC – Telecommunications
- B) South River EMC and Progress Energy – Power Distribution and Transmission
- C) Time Warner Cable - Cable Television

The conflicting facilities of these concerns will be adjusted prior to the date of availability, unless otherwise noted and are therefore listed in these special provisions for the benefit of the Contractor. All utility work listed herein will be done by the utility owner or his Contractor. All utilities are shown on the plans from the best available information.

The Contractor's attention is directed to Article 105-8 of the Standard Specifications.

Utilities Requiring Adjustment:

- A) CenturyLink – Telecommunications
 - See Utilities by Others Plans for details.
All work to be completed by Date of Availability.
 - Contact Mr. Kevin Godwin @ 910-366-2142

A) Fayetteville PWC - Telecommunications

- See Utilities by Others Plans for details.
All work to be completed by Date of Availability.
- Contact Ms. Darlene Goodheart @ 910-223-4526

B) South River EMC – Power Distribution and Transmission

- See Utilities by Others Plans for details.
All work to be completed by Date of Availability.
- Contact Mr. Scott Byrd @ 910-892-8071

B) Progress Energy – Power Distribution and Transmission

- See Utilities by Others Plans for details.
All work to be completed by Date of Availability.
- Contact Ms. Sheila Talton @ 919-481-6126

C) Time Warner Cable – Cable Television

- See Utilities by Others Plans for details.
All work to be completed by Date of Availability.
- Contact Mr. Tony Mlynski @ 910-401-5088

December 5, 2012

PROJECT: R-2303B
COUNTY: Cumberland/Sampson

PROJECT SPECIAL PROVISIONS
Utilities

UTILITIES BY OTHERS

General:

The following utility companies have facilities that will conflict with the construction of this project:

- A. Progress Energy (Distribution)
- B. Progress Energy (Transmission)
- C. CenturyLink
- D. Star Telephone
- E. Piedmont Natural Gas
- F. Time Warner

The conflicting facilities of these concerns will be adjusted prior to the date of availability, unless otherwise noted and are therefore listed in these special provisions for the benefit of the Contractor. All utility work listed herein will be done by the utility owners. All utilities are shown on the plans from the best available information.

The Contractor's attention is directed to Article 105-8 of the Standard Specifications.

Utilities requiring Adjustment:

- A. Progress Energy (Distribution)
 - 1. See "Utility by Others Plans" for utility conflicts and new pole locations.
 - 2. Installation of new power facilities will **not** be completed prior to the availability date of the contract. The completion date for Progress Energy's relocation work will be September 15, 2013 except in the area of the proposed bridge. After the contractor has completed construction of the bridge along the south side of NC 24, Progress Energy will install new poles back of proposed guardrail prior to traffic being

shifted onto the new bridge. Progress Energy will require a 2 week notice in order to schedule the work. It will take 4 weeks to perform all necessary work once notified to do so.

3. Contact person is Mr. Don Spence with UC Synergetic. He can be reached at 919-882-5001 Ext. 5045.

B. Progress Energy (Transmission)

1. See "Utility by Others Plans" for existing and proposed utility locations.
2. Progress Energy will complete all transmission relocation work prior to the availability date.
3. Contact person is Mr. Jamie Loy, Transmission Engineer. He can be reached at 919-546-6034.

C. CenturyLink

1. See "Utility by Others Plans" for existing and proposed utility locations.
2. CenturyLink will install new buried facilities along the length of the project. Once the new facilities have been activated, CenturyLink will abandon its existing facilities. All work will be completed by November 15, 2013.
3. Contact person for CenturyLink for the work in Cumberland County is Mr. Richard Clark, Supervisor Plant Facilities. He can be reached at 910-423-6912. Contact person for CenturyLink for the work in Sampson County is Mr. Milton Russell, Supervisor Plant Facilities. He can be reached at 252-726-9114.

D. Star Telephone

1. See "Utility by Others Plans" for existing and proposed utility locations
2. Star Telephone will install new buried facilities along NC 24 and crossing SR 1414. Once the new facilities are activated, Star Telephone will abandon its existing facilities. All work will be completed prior to the availability date.
3. Contact person will be Mr. Kenneth Medlin and he can be reached at 910-564-7832.

E. Piedmont Natural Gas

1. See "Utility by Others Plans" for existing and proposed utility locations.

2. Piedmont Gas will install a new gas line along NC 24 beginning at Station 690+00 to end of project limits. All work will be completed by September 30, 2013. After the new line has been activated the existing gas line will be abandoned.
3. The contact person for Piedmont is Mr. Edward Sykes, Operations Supervisor-Construction. He can be reached at 919-705-5050.

F. Time Warner

1. See "Utility by Others Plans" for existing and proposed utility locations.
2. Time Warner will be reattaching to Progress Energy's new poles in several areas with the project limits. All work will be completed by September 15, 2013.
3. Contact person for Time Warner is Mr. Tony Mlynski, Construction Coordinator and he can be reached at 910-401-5088.