

Project: R-2206B
County: Lincoln

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 Metric" dated January 2002, and the following provisions.

Lay water mains at least 3.05m laterally from existing or proposed sanitary sewers.

Test all new sewer lines for water tightness. Leakage into the sewer lines not to exceed 230 liters per 25 millimeters diameter per kilometer of pipe per 24 hours for any section of the line between adjoining manholes and 230 liters per 25 millimeters diameter per kilometer of pipe per 24 hours for any line, or system of lines, extending through two or more manholes

The depth of pipeline installation may vary to achieve minimum clearance of existing or proposed utilities or storm drainage while maintaining minimum cover specified (whether existing or proposed pipelines, conduits, cables, mains and storm drainage are shown on the plans or not).

Owner and Owner's Requirements:

The existing utilities belong to Lincoln County. The Contractor shall provide access for the owner's representatives to all phases of construction. Notify the owner two weeks before commencement of any work and one week before service interruption.

Utility Locations Shown on the Plans:

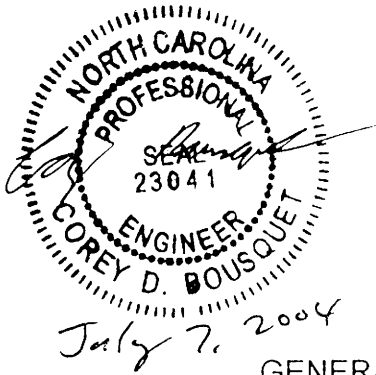
The location, size, and type material of the existing utilities shown on the plans are from the best available information. The Contractor will be responsible for determining the exact location, size, and type material of the existing facilities

1. BEDDING MATERIAL:

Bedding material for utility lines shall be installed in accordance with the applicable utility provisions herein, as shown on the utility construction plans, and/or as directed by the Engineer.

Bedding material shall meet the requirements of Article 1016-3 of the Standard Specifications. Bedding material shall be installed in accordance with Articles 300-6 and 300-7 of the Standard Specifications and the detail sheets that are part of the Utility Construction Plans.

Bedding material installed in accordance with the plans and provisions herein and accepted, will be measured and paid for at the contract unit price per ton for "Bedding Material, Utilities Class IV". Such prices and payments shall be full compensation for all materials, labor, equipment, compaction and shaping the bedding material in accordance with Article 300-4 of the Standard Specifications, and incidentals necessary to complete the work as required.



Project: R-2206C
 Counties: Lincoln & Catawba

PROJECT SPECIAL PROVISIONS
 Utility Construction

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 2002, and the following provisions.

Lay water mains at least 3.05m laterally from existing or proposed sanitary sewers.

The depth of pipeline installation may vary to achieve minimum clearance of existing or proposed utilities or storm drainage while maintaining minimum cover specified (whether existing or proposed pipelines, conduits, cables, mains and storm drainage are shown on the plans or not).

On new sewer force mains and tie-in sections of sewer force mains, the method of anchoring pipe bends, plugs, caps, tees, reducing sections, valves, and related appurtenances will be the responsibility of the Contractor. Tying into existing sewer force mains may alter such lines to the extent that these pipelines with fittings, valves, and appurtenances may also require reaction backing or restraint; this work shall also be the responsibility of the Contractor.

The Contractor shall submit his proposed method of anchoring to the Engineer for review and approval before any applicable sewer force mains construction. Such approval will not relieve the Contractor of his responsibility of properly anchoring the sewer force mains system.

After the installed pipe, fittings, valves, hydrants, corporation stops and end plugs are inserted and secured, the pipe line shall be subjected to a hydrostatic pressure test of 1.38 MPa for a period of 2 hours, by pumping the section full of clean water using an approved pressure pump. Cross connection for flushing and chlorination shall be made by means of a temporary connection from the supply pipe with an approved backflow prevention device. Taps for the cross connection piping shall be made to the portion of the existing water main that will be removed from service. The proposed water main shall be laid to within one pipe length of the point of final connection prior to flushing and testing. All flushing and chlorination work shall be performed in accordance with AWWA C651-99. All fittings, valves and backflow prevention devices required for

chlorination and testing shall be incidental to the cost of the proposed pipe being tested.

Contractor shall make such arrangements, as the utility owner requires, for measuring and paying for water required to flush and test water mains.

Copies of bacteriological testing reports shall be provided to the utility owner prior to activating new water mains.

Owner and Owner's Requirements:

The existing utilities belong to Lincoln County. The Contractor shall provide access for the owner's representatives to all phases of construction. Notify the owner two weeks before commencement of any work and one week before service interruption.

Utility Locations Shown on the Plans:

The location, size, 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 material of the existing facilities.

II. 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 contract unit prices of the various utility items included in the contract.

1. BEDDING MATERIAL:

Bedding material for utility lines shall be installed in accordance with the applicable utility provisions herein, as shown on the utility construction plans, and/or as directed by the Engineer.

Bedding material shall meet the requirements of Article 1016-3 of the Standard Specifications. Bedding material shall be installed in accordance with Articles 300-6 and 300-7 of the Standard Specifications and the detail sheets that are part of the Utility Construction Plans.

Bedding material installed in accordance with the plans and provisions herein and accepted, will be measured and paid for at the contract unit price per ton for "Bedding Material, Utilities Class IV". Such prices and payments shall be full compensation for all materials, labor, equipment, compaction and shaping the



bedding material in accordance with Article 300-4 of the Standard Specifications, and incidentals necessary to complete the work as required.

PROJECT SPECIAL PROVISIONS
Utilities by Others

Utilities by Others:

General:

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

- A. RUTHERFORD EMC COMPANY
- B. BELLSOUTH TELEPHONE COMPANY
- C. TRANSCONTINENTAL GAS PIPE LINE CORPORATION

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. The utility owners will do all utility work listed herein. 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. RUTHERFORD EMC COMPANY
See Utility by Others plans for details. Relocation will be complete 1 months after date of availability.
- B. BELLSOUTH TELEPHONE COMPANY
See Utility by Others plans for details. Relocation will be complete 3 months after date of availability.
- C. TRANSCONTINENTAL GAS PIPE LINE CORPORATION
See Utility by Others plans for details.

September 20, 2004

PROJECT: R-2206C
COUNTIES: LINCOLN & CATAWBA

PROJECT SPECIAL PROVISIONS
Utility

UTILITY CONFLICTS:

General:

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

- A. Duke Power
- B. BellSouth Telephone
- C. Rutherford Electric Membership Corporation
- D. Charter Communications.
- E. Energy United

The conflicting facilities will be adjusted prior to the date of availability except where 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. Duke Power
 - 1. See "Utility By Others Plans" for utility conflicts.
 - 2. Contact Person is David Osborne (704)664-6844
 - 3. All Power facilities will be relocated by December 15, 2004.
- B. BellSouth Telephone
 - 1. See "Utility By Others Plans" for utility conflicts.
 - 2. Contact Person is Steve Mode (704)276-3197
 - 3. All Telephone facilities will be relocated by April 15, 2005.
- C. Rutherford Electric Membership Corporation
 - 1. See "Utility By Others Plans" for utility conflicts.
 - 2. Contact Person is Thomas Conner (828)245-1621
 - 3. All Power facilities will be relocated by December 15, 2004
- D. Charter Communications
 - 1. See "Utility By Others Plans" for utility conflicts.
 - 2. All Cable facilities will be relocated by March 15, 2005.

E. Energy United

1. See "Utility By Others Plans" for utility conflicts.
2. Contact Person is Robert Fisher (704)896-5415
3. All Power facilities will be relocated by December 15, 2004.