



PROJECT SPECIAL PROVISIONS
Utility Construction

All proposed utility construction shall meet the applicable requirements of the NC Department of Transportation's "Standard Specifications for Roads and Structures" dated July 2006. Division 15 of the Standard Specifications is revised as follows:

Page 15-1, Paragraph 4

Provide access for Department personnel and the owner's representatives to all phases of construction. Notify Department personnel and the utility owner two weeks prior to commencement of any work and one week prior to service interruption. Keep utility owner's representatives informed of work progress and provide opportunity for inspection of construction and testing. *The water and sewer lines on this project belong to Fayetteville PWC. The contact person for Fayetteville PWC is Mr. Joe Glass, PE and he can be reached by phone at (910) 223-4740. Any work on these lines must be coordinated through the Engineer and the utility owner before beginning.*

Page 15-9 Section 1515-2

In addition to the water line materials specified under Section 1036, the water line can be High Density Polyethylene (HDPE) pipe conforming to AWWA C906 with an SDR of 9 and a pressure rating of 200 psi.

Ductile iron water pipe shall be of the thickness and pressure rating class shown on the utility plans and shall conform to ANSI A21.51 (AWWA C151). Pipe shall be either mechanical joint or push-on-joint and installed with rubber gaskets in accordance with ANSI A21.11 (AWWA C111). All water pipe shall be provided and installed in accordance with Articles 1036 and 1510 of the Standard Specifications. All water pipe on this project shall be ductile iron unless otherwise specified on the utility construction plans.

Ductile iron sewer pipe shall meet the requirements of ANSI A21.51/AWWA C151. Ductile iron sewer pipe shall be PC 350. Joints shall be mechanical joint or rubber ring gasket slip joint, each conforming to ANSI A21.11/AWWA C-111. The pipe and fittings shall have an asphaltic exterior coating as specified in AWWA C151. Interior of the pipe joints shall be coated with ceramic epoxy to produce a minimum dry film thickness of 40 mils. Calcium aluminate mortar lining of the ductile iron pipe shall also be acceptable. All sewer pipe on this project shall be ductile iron.

Foundation conditioning shall be provided in accordance with Section 1505 of the Standard Specifications. Foundation conditioning material for utility pipe installation shall be Select Material, Class VI in accordance with Section 1016.

The existing backflow prevention shown on utility construction plan sheets UC-3 and UC-4 are shown as being replaced. The replacement shall be an "in kind" replacement in that the internals of the proposed backflow prevention shall match the arrangement in the existing backflow prevention assembly.

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.

RESTRAINED JOINT DUCTILE IRON WATER LINE

Restrained Joint Ductile Iron Water Line shall be installed in accordance with the applicable utility provisions herein, as shown on the utility plans and/or as directed by the Engineer.

Restrained Joint Ductile Iron Water Line shall be pressure class 350 as shown on the utility plans and shall conform to ANSI A21.51 (AWWA C151). All joints for such pipe shall be in accordance with ANSI A21.11 (AWWA C111). Pipe thickness shall be in accordance with ANSI A21.50 (AWWA C150) and based on laying conditions and internal pressures stated on the plans.

Cement mortar lining and seal coating for pipe shall be in accordance with ANSI A21.4 (AWWA C104). Bituminous outside coating shall be in accordance with ANSI A21.51 (AWWA C151).

Restrained Joint Water Line, installed in accordance with the plans and provisions herein and accepted, will be measured along the pipe from end to end, with no deductions for fittings and valves, and paid for at the contract unit price per linear foot for, "___" Restrained Joint Ductile Iron Water Line". Such prices and payments will be full compensation for all materials, including pipe accessories, excavation, labor, pressure testing, sterilization, backfilling, and incidentals necessary to complete the work as required.

RESTRAINED JOINT DUCTILE IRON SEWER:

Restrained Joint Ductile Iron Sewer Pipe shall be installed in accordance with the applicable utility provisions herein, as shown on the utility plans and/or as directed by the Engineer.

Restrained Joint Ductile Iron Sewer Pipe shall be pressure class 350 as shown on the utility plans and shall conform to ANSI A21.51 (AWWA C151). Push-on joints for such pipe shall be in accordance with ANSI A21.11 (AWWA C111). Pipe thickness shall be designed in accordance with ANSI A21.50 (AWWA C150) and based on laying conditions and internal pressures as stated on the plans.

All Restrained Joint Ductile Iron Sewer Pipe shall be installed in accordance with laying condition Type 2 as stated in ANSI A21.51 (AWWA C151) unless otherwise shown on the plans or directed by the Engineer. Pipe shall be installed with rigid restrained joints. The pipe shall meet the requirements stated in Section 1034 of the Standard Specifications for Roads and Bridges, and be installed in accordance with Section 1520.

Restrained Joint Ductile Iron Sewer Pipe, installed in accordance with the plans and provisions herein and accepted, will be measured along the pipe from end to end, with no deductions for fittings and valves, and paid for at the contract unit price per linear foot for, "____" Rigid Restrained Joint Ductile Iron Sewer". Such prices and payments will be full compensation for all materials, including pipe accessories, excavation, labor, pressure testing, sterilization, backfilling, and incidentals necessary to complete the work as required.

WATER METER ASSEMBLY

Water meter assemblies are to be installed at the locations shown on the plans and/or as directed by the Engineer.

Water meter assemblies shall consist of replacement in kind of the valves, bypass piping, backflow prevention and associated hardware currently in service. Water meter assemblies shall also be furnished with a new precast concrete vault/box approximately 5' x 10' with a concrete top and metal access hatch cover. The water meter assembly does not include the water meter.

Vaults/boxes shall be placed with the top flush with finished grade of the project.

Water meters shall be furnished and installed by PWC of Fayetteville.

The quantity of water meter assemblies installed and accepted will be measured and paid for at the contract unit price per each for "_____ Water Meter Assembly". Such price and payment will be full compensation for all labor, materials, equipment, excavation, installing, backfilling, and incidentals necessary to complete the work as required.

PROJECT SPECIAL PROVISIONS

Utility

UTILITIES BY OTHERS:

General:

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

- A) Progress Energy Corp. - Power (Distribution)
- B) Public Works Commission of the City of Fayetteville (PWC) – Power Distribution
- C) Time Warner - Cable TV
- D) Embarq - Telephone
- E) Piedmont Natural Gas Corp. - Gas

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. 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 Corp. - Power (Distribution)
 - 1) Progress Energy Corp. will relocate its poles and lines within the project limits to the locations shown on the Utilities by Others Plans prior to date of availability.
 - 2) Contact person for Progress Energy is Mr. J. B. Jones at 910-206-1966.
- B) Public Works Commission of the City of Fayetteville (PWC) – Power Distribution
 - 1) PWC will relocate some of its poles and lines to permanent and temporary locations as shown of the Utilities by Others Plans prior to date of availability.
 - 2) After completion of the new bridges PWC will remove the temporary poles and lines and move them to the permanent locations as shown on the Utilities by

Others plans. The Contractor shall provide two (2) weeks notice to PWC prior to the time that PWC will be allowed to move the lines and poles, allow PWC access to the Project site, and allow PWC two (2) weeks to complete their work.

3) Contact person for PWC is Mr. Joel Brown at 910-263-7940.

C) Time Warner Cable TV

1) Time Warner Cable TV will abandon it underground lines and relocate them to poles at the locations shown on the Utilities by Others Plans prior to date of availability.

2) Contact person for Time Warner Cable TV is Mr. Wallace Frazee at 910-401-5090.

D) Embarq – Telephone and Fiber Optic

1) Embarq will relocate its lines to new underground locations as shown on the Utilities by Others plans prior to the date of availability.

2) Contact person for Embarq is Mr. Josh Sturtz at 910-797-1695.

E) Piedmont Natural Gas Corp. - Gas

1) The Contractor shall provide a one (1) weeks notice to N. C. Natural Gas Company that N. C. Natural Gas Company's facilities are in conflict with proposed construction and allow N. C. Natural Gas Company one (1) weeks to make the necessary adjustments.

2) Contact person for N. C. Natural Gas Company is Mr. Bob Hayes at 910-321-2900.