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PROJECT SPECIAL PROVISIONS
Utility Construction

Revise the *Standard Specifications for Roads and Structures*, July, 2006, as follows:

Division 15

Utility Owners' Contact Information:

Page 15-1, Article 1500-2 Cooperation with the Utility Owner, paragraph 2, add the following sentences:

There are multiple water and sewer lines on this project that belong to different utility companies. They are listed below with their contact person.

1. Sewer facilities are owned by the Metropolitan Sewerage District of Buncombe County (MSD). The contact person for MSD is Mr. Mike Schraven; he can be reached by phone at (828) 225-8288.

2. Water facilities are owned by the City of Asheville. The contact person for the City is Mr. Mike Brookshire, PE; he can be reached by phone at (828) 259-5961.

High Density Polyethylene Pipe:

Page 15-9, Article 1515-2 Materials, add the following:

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 pressure rating of 200 psi.

Manhole Vacuum Testing:

Page 15-15, Subarticle 1520-3(A)(2) Materials, add the following:

(g) Vacuum Testing

All manholes shall be tested after assembly and prior to backfilling using a vacuum tester. All lift holes shall be plugged with non-shrink grout. All pipes entering the manhole shall be plugged. All plugs shall be braced to keep plug from being drawn into manhole. The inside of the manhole shall be wet down with a soap and water solution which will visibly indicate areas of leakage after the test is performed. Test head shall be placed on or in the cone section and the seal inflated as per the manufacturer's specifications.

A vacuum of 10 inches of mercury shall be drawn and the vacuum pump shut off. With the valve closed, the time it takes for the vacuum to drop to 9 inches shall be measured. The manhole shall pass if the time is greater than the values below:

Manhole Depth	Manhole Diameter		
	48"	60"	72"
10' or less	60sec	75sec	90sec
10' – 15'	75sec	90sec	105sec
Over 15'	90sec	105sec	120sec

If the manhole fails, necessary repairs shall be made using non-shrink grout. Then re-test until manhole is acceptable.

Concrete Pier:

Description

Concrete piers shall be used to support pipes at locations shown on the plans. Such piers shall be constructed as shown on the utility plans.

Materials

The concrete shall meet the requirements of Section 1000 of the Standard Specifications for class A concrete.

The reinforcing steel shall meet the requirements of Section 1070 of the Standard Specifications.

Steel for straps and bolts shall be ANSI type 316 stainless steel.

Construction Method

Concrete piers shall be constructed in accordance with the plans, provisions, and detail drawings.

Measurement and Payment

Concrete piers will be measured and paid for per each. Such price and payment will be full compensation for all work covered by this provision, including but not limited to furnishing all materials, steel straps, bolts, forms, labor, excavation, backfilling, and incidentals necessary to complete the work as required.

Payment will be made under:

Pay Item	Pay Unit
Concrete Pier	Each

PROJECT SPECIAL PROVISIONS
Utilities By Others

UTILITY CONFLICTS:

General:

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

- A. Progress Energy- Power Transmission/Distribution
- B. AT&T – Telephone
- C. Charter Communications – Cable TV
- D. PSNC - 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 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 – Power Transmission/Distribution
 - 1. See "Utilities By Others Plans" for utility conflicts.
 - 2. The contact for Progress Energy is Robert Metcalf, (828) 271-3596.
 - 3. All facilities will be relocated by January 30, 2009.

- B. AT&T – Telephone
 - 1. See "Utilities By Others Plans" for utility conflicts.
 - 2. The contact for AT&T is Scott Addington, (828) 258-7138.
 - 3. All facilities will be relocated by June 30, 2009.

- C. Charter Communications – Cable TV
 - 1. See "Utilities By Others Plans" for utility conflicts.
 - 2. The contact for Charter Communications is Barry Owens, (828) 209-2290.
 - 3. All facilities will be relocated by February 28, 2009.

- D. PSNC – Gas
 - 1. PSNC will adjust gas lines in the field as required. Give PSNC two weeks' notice to begin work, and allow two weeks to complete the work.
 - 2. The contact for PSNC is Kenneth Owenbee, (828) 670-3527.