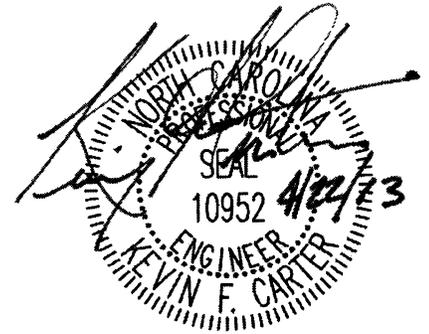


PROJECT SPECIAL PROVISIONS
Utility Construction



I. GENERAL CONSTRUCTION REQUIREMENTS

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 following Special Provisions:

DIVISION 10 – MATERIALS

1. Section 1034 - Sanitary Sewer Pipe and Fittings

- Page 10-57; Sub-Article 1034-4(B), Force Main Sewer Pipe, delete lines 38 through 40 and insert with the following:

"...standard size fittings or ANSI/AWWA C153/A21.53 for compact fittings. Manufactured pipe and fittings shall be lined with an amine cured novalac ceramic epoxy containing at least 20% by volume of ceramic quartz pigment. The lining material shall have a permeability rating of zero when tested in accordance with Method A – ASTM E-96-66, Procedure A with a test duration of 30 days. The lining shall be applied by a competent firm with a successful history of applying linings to the interior of ductile iron pipe and fittings. After the surface preparation and within 8 hours of surface preparation, the interior of the pipe shall receive 40 mils nominal DFT. No lining shall take place when the substrate or ambient temperature is below 40°F. The surface shall also be dry and dust free. The lining shall not be used on the face of flanges.

Due to the tolerances involved, the gasket area and spigot end up to 6-inches back from the end of the spigot end must be coated with 6 mils nominal, 10 mils maximum of Protecto Joint Compound. The Protecto Joint Compound shall be applied by brush to ensure coverage. Care should be taken that the Protecto Joint Compound is smooth without excess buildup in the gasket seat or on the spigot ends. Coating of the gasket seat and spigot ends shall be done after the application of the lining.

The number of coats of lining material applied and the touch-up and repair of the lining shall be as recommended by the manufacturer. The pipe manufacturer shall provide a certification attesting to the fact that the application meets or exceeds the requirements of these Special Provisions

The lining material shall be **PROTECTO 401**, or equal."

DIVISION 15 – UTILITY CONSTRUCTION

1. Section 1500 – General Utility Requirements

- Page 15-1; Sub-Article 1500-2, Cooperation with the Utility Owner, In Paragraph 2, add the following:

“Sewer facilities are owned by Clay County Water and Sewer District. The contact person for the District is Mr. Layton Schuh, and he can be reached by phone at (828) 389-1361.”

2. Section 1520 – Sanitary Sewer

- Page 15-12; Sub-Article 1520-3(B)(2), Force Main Sanitary Sewer Testing, After the second Paragraph change the formula information to read:

$$W = LD(\sqrt{P})/133,200$$

Where: W = maximum allowable leakage, in gallons per hour
 L = length of pipe tested, in feet
 D = nominal diameter of pipe, in inches
 P = average test pressure during leakage test, in psi”

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. Blue Ridge Mountain EMC
- B. Frontier Communications
- C. Windstream
- D. BalsamWest FiberNET

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. Blue Ridge Mountain EMC

- 1. See Utilities by Others plans for utility conflicts.
- 2. The contact for Blue Ridge Mountain EMC is Mr. Chris Busbee. Mr. Busbee may be reached at:
Blue Ridge Mountain EMC
1360 Main Street
Young Harris, GA 30582
Tel. (706) 379-3121 ext. 179
- 3. All facilities will be relocated by Date of Availability.

B. Frontier Communications

- 1. See Utilities by Others plans for utility conflicts.
- 2. The contact for Frontier Communications is Ms. Tina Rutherford. Ms. Rutherford may be reached at:
Frontier Communications
84 Allen Street
Sylva, NC 28779
(828) 631-4058
- 3. With the exception of the area discussed in item 4 of this section, all facilities will be relocated by Date of Availability.
- 4. Two cables owned by Frontier Communications will remain in place until guardrail construction. These cables pass under the proposed guardrail at Sta.

26+80 -Y1- 16.8' RT. Before beginning construction of the guardrail, notify Frontier Communications of the intent to begin construction in that area. Frontier Communications will locate and identify their cables, and identify conflicts with guardrail placement in concert with the Contractor and the Engineer. Frontier Communications will then relocate their cable as required to avoid damage to their cables. Frontier Communications will require one week's notice to begin construction, and one week to complete construction. In addition to Ms. Tina Rutherford, Mr. Frank Roper ((828) 645-2943) or Mr. Bob Golding ((828) 347-5072) may be contacted about this issue.

C. Windstream

1. See Utilities by Others plans for utility conflicts.
2. The contact for Windstream is Mr. John Cantwell. Mr. Cantwell may be reached at:
Windstream
200 Communications Boulevard
Baldwin, GA 30522
(706) 776-4606
3. All facilities will be relocated by Date of Availability.

D. BalsamWest FiberNET

1. See Utilities by Others plans for utility conflicts.
2. The contact for BalsamWest FiberNET is Mr. Danny Haines. Mr. Haines may be reached at:
BalsamWest FiberNET
52 Colonial Square
Sylva, NC 28779
(828) 586-6141
3. All facilities will be relocated by Date of Availability.