

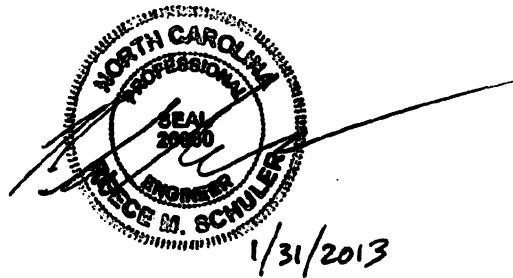
I 63

Project: P-5206A  
County: Rowan

**V&M Vaughn & Melton**

Consulting Engineers  
3809-L Beam Road  
Charlotte, NC 28217  
704-357-0488  
www.vaughnmelton.com

PROJECT SPECIAL PROVISIONS  
Utility Construction



Prepared By: Mr. Reece Schuler, PE, LSI

All proposed utility construction shall meet the applicable requirements of the NC Department of Transportation's Standard Specifications for Roads and Structures dated January 12, 2012.

Revise the 2012 Standard Specifications as follows:

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

All water lines on this project belong to Salisbury Rowan Utilities. All sewer lines, with the exception of two 3" force main sewer lines along the south side of Peeler Road belong to Salisbury Rowan Utilities.

- A. The contact person for Salisbury Rowan Utilities is Mr. Jason Wilson, PE at (704) 216-7553. The contractor shall provide access for the owner's representatives to all phases of construction. Any work on these lines must be coordinated through the Engineer and the utility owner before beginning.

**Page 15-1, Article 1500-2 Cooperation with the Utility Owner, lines 21-22, replace sentence with:**

The utility owner staff must operate all existing controls.

**Page 15-1, Article 1500-2 Cooperation with the Utility Owner, line 23, replace 24 hours with 48 hours.**

**Page 15-2, Article 1500-7 Submittals and Records, line 23, add the following sentence:**

USA made products are required for all water and sewer construction and replacement.

**Page 15-2, Article 1500-9 Placing Pipelines into Service, line 38, replace *ample time to make arrangements* with *minimum advance notice of 48 hours for water and sewer interruptions*.**

**Page 15-3, Article 1505-3 Construction Methods, lines 13 & 14, replace sentence with:**

Comply with AWWA, ASTM, and City of Salisbury Uniform Construction Standards and Specifications (for water and sewer installation), along with the product manufacturer requirements for installing utilities.

**Page 15-4, Article 1505-3 (E) Thrust Restraint, paragraph 3, add the following sentences:**

Acceptable joint restraint for water lines are domestic manufactured Mega-lugs and Romac GripRing. No concrete blocking behind fire hydrants.

**Page 15-5, Article 1510-2 Materials, lines 20, 21 & 22,** replace sentence with:

Acceptable water pipe materials are domestic manufactured (water pipe) pressure class 350 ductile iron pipe. 2" water pipe shall be type K copper where under pavement or road crossings. 2" SDR 13.5 is allowed outside of roads where separation conflicts do not exist.

**Page 15-6, Article 1510-3 (B) Testing and Sterilization, line 28,** replace sentence with:

Sterilize water lines according to NCDENR, City of Salisbury requirements, and AWWA C651 (lines must be initially chlorinated to 100 mg/l).

**Page 15-6, Article 1510-3 (B) Testing and Sterilization, lines 29 & 30,** replace *an approved independent testing laboratory* with *the City of Salisbury Water Plant Laboratory*.

**Page 15-6, Article 1510-3 (B) Testing and Sterilization, line 33,** add the following sentence:

Waste water from the sterilization of water lines shall not be placed into the sewer system.

**Page 15-7, Article 1515-2 Materials, line 31,** delete *screw or*

**Page 15-8, Article 1515-3 (D) Fire Hydrants, line 29,** replace *Place at least 7 cf of clean crushed stone around the base of the hydrant* with *Place at least ½ cubic yard of #67 washed stone under and around the base of the hydrant*.

**Page 15-10, Article 1520-2 Materials, lines 7 & 8,** replace the sentence with:

Acceptable water pipe materials are domestic manufactured (sewer pipe) pressure class 350 ductile iron pipe where existing pipe is ductile iron, under pavement, for road crossings, and where separation issues occur. SDR 35 PVC pipe with type III bedding may be used where the existing pipe is SDR 35, located outside of the road or pavement, and no separation conflicts exist.

**Page 15-10, Article 1520-3 (A)(1) Gravity Sanitary Sewer, line 34,** replace *Use fittings or saddles* with *Use fittings (wyes) or saddles*

**Page 15-11, Article 1520-3 (A)(2)(a)(b) Gravity Sanitary Sewer, lines 6-24,** delete these two sections:

Low pressure air testing is required by utility owner.

**Page 15-11, Article 1520-3 (A)(2)(c) Gravity Sanitary Sewer, lines 28, 29 & 30,**  
replace with the following sentences:

Fill the pipe with air to 4.0 psi and allow the pressure to stabilize at 4.0 psi before starting the test. Measure the time for the pressure to drop 0.5 psi to the new pressure of 3.5 psi.

**Page 15-13, Article 1525-2 Materials, lines 10,** add the following sentence:

All sewer manholes shall be precast manholes (no brick or block allowed).

Date: February 4, 2013

I 67

Project: P-5206A  
County: RowanPROJECT SPECIAL PROVISIONS

## Utilities by Others

**General:**

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

- A. Duke Energy
- B. AT&T
- C. Piedmont Natural Gas
- D. Fibrant Cable
- E. Time Warner Cable
- F. Windstream Concord Telephone

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. Duke Energy – Power (Distribution)**

1. Duke Energy has facilities in conflict with construction along –YB–, –Y23–, –Y23A–, –Y2–, and –Y21–. All facilities in conflict with construction will be relocated by August 28, 2013. See Utilities by Others Plans for details.

Contact: William Huffstetler at (704) 866-5109

**B. AT&T – Telecommunications**

1. AT&T has facilities in conflict with construction along –YB–, –Y2–, –Y3–, –Y20–, –Y21–, and –Y23A–. All facilities in conflict with construction will be relocated by November 19, 2013. See Utilities by Others Plans for details.

Contact: Dan Owens at (704) 779-4415

**C. Piedmont Natural Gas – Gas**

1. All facilities in conflict with construction will be relocated by April 29, 2013. See Utilities by Others Plans for details.

Date: February 4, 2013

1 68

Project: P-5206A  
County: Rowan

Contact: James Graham at (704) 587-6844

D. Fibrant Cable – Cable

1. Fibrant cable intends to have all facilities in conflict with construction relocated by November 29, 2013; however, Fibrant cannot perform their relocation until Duke and/or AT&T install their new poles for Fibrant to attach to. See Utilities by Others Plans for details.

Contact: Keith Storm at (676) 641-3535

E. Time Warner Cable – Cable

1. All facilities in conflict with construction will be relocated by August 28, 2013. See Utilities by Others Plans for details.

Contact: Mike Hamby at (980) 722-5122

F. Windstream Concord Telephone – Telecommunications

1. All facilities in conflict with construction will be relocated by August 28, 2013. See Utilities by Others Plans for details.

Contact: James Foley at (704) 722-2822