

PROJECT SPECIAL PROVISIONS
Utility Construction



Revise the *2006 Standard Specifications* as follows:

Utility Owner Contact Information:

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

The 6" water line is owned by the City of Rocky Mount. The contact for this water line is Ed Joyner (252-467-4919).

The Contractor shall provide access for the owner's representatives to all phases of construction and keep the manhole and valves accessible during construction. The Contractor shall notify owners two weeks before commencement of any work and three weeks before service interruption.

The contractor shall replace the existing fire hydrants that are relocated with a new fire hydrant supplied by City of Rocky Mount. The contractor shall stockpile the existing fire hydrant within the limits of the project and contact City of Rocky Mount to have the fire hydrant removed.

The Contractor shall provide a set of as-built plans to the City of Rocky Mount after all the work shown on the Utility Construction Plans is completed.

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

The proposed utility construction shall meet the applicable requirements (i.e. material specifications, standard details, testing, policies, etc.) of the NCDOT's "Standard Specifications for Roads and Structures" (dated July, 2006) and the City of Rocky Mount's "Water Distribution System Improvements" specifications.

1. 6" Check Valve Assembly and Housing:

Check Valve Assembly and Housing shall be installed in accordance with the applicable utility provisions herein, as shown on the utility plans, and/or as directed by the Engineer.

Check valve shall be iron body, bronze mounted swing type with flanged ends manufactured in accordance with AWWA C508. Check valve shall have cast iron clapper with bronze face and bronze seat ring. Check valve shall provide "full flow," clear passageway for nominal diameter of pipe when fully open. Valves shall have adjustable external lever and weight or lever and spring operation. Working parts of valve shall be fully removable through top cover. Valves shall be rated for one hundred

and seventy-five (175) psi minimum working pressure (three hundred (300) psi test pressure). Valve shall be fully bituminous or epoxy coated for use in potable water systems. The valve shall be housed in a precast manhole.

Valves inside manhole shall be flanged, open left and either: (1) non-rising stem (NRS) with hand wheel operation, or (2) outside stem and yoke (OS&Y) with hand wheel operation. All gate valves shall be Resilient-Seated type manufactured in accordance with AWWA C509 and shall be fully epoxy coated, twelve (12) mil minimum dry film thickness, which conforms to AWWA C550 latest revision. This coating shall be applied prior to valve assembly in order that all exposed external surfaces, including end connection bolt holes, body to bonnet bolt holes, etc., shall be coated. All gate valves shall have a minimum rated working pressure of two hundred (200) psi and four hundred (400) psi minimum test pressure. Gate valves shall have an unobstructed waterway when fully opened equal in diameter to at least ¼" greater than nominal valve size. Gate valves shall be provided with O-ring stem seals above and below the stem collar. The area between the O-rings shall be filled with lubricant to provide lubrication to the thrust collar bearing surfaces each time the valve is operated. One antifriction washer shall be located below and one antifriction washer above the thrust collar. All seals between valve parts such as body and bonnet, bonnet and bonnet cover, shall be O-ring seals. The valve seating mechanism shall provide zero leakage at the water working pressure when installed with the line flow in either direction. The valve seating mechanism shall consist of a cast iron gate having a vulcanized synthetic rubber coating with no rubber to metal seams or edges to the water-way when in the fully closed position. The valve seating mechanism shall be designed such that no sliding of rubber on the seating surfaces is required to compress the rubber. It shall also be designed such that compression-set of the rubber shall not affect the ability of the valve to seal when pressure is applied to either side of the gate. The hand wheel shall be independent of the gate and shall be provided with a spherical bearing surface to eliminate binding of the stem and to provide a self-aligning seating mechanism. The gate shall be provided with a drain in the bottom to flush the internal cavity of foreign material each time the valve is opened. All valves shall be seat-tested at the rated working pressure and self-tested at twice the rated working pressure in accordance with AWWA C509.

Precast concrete manhole, shall conform to ASTM C478 and the manhole frames and covers shall be of cast iron conforming to ASTM A48 Class 30, shall be traffic bearing, and shall have machined contact surfaces. Covers shall have no vents.

All components (i.e. gate valves, check-valve, flanged connections, and manhole, etc.) contained within the check-valve manhole shall be included in payment at the contract unit price for "6" Check Valve Assembly." Such payment includes all materials and labor for installation, sterilization, pressure testing, excavation, backfill, and all incidentals necessary to complete the work as required.

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. City of Rocky Mount (Power Distribution)
- B. Edgecombe-Martin EMC (Power Distribution)

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. City of Rocky Mount (Power Distribution)
- B.
 - 1. The contact is Mr. Darryl Strother. He can be reached at 252-972-1111. See Utility by Others Plans.
- C. Edgecombe-Martin EMC (Power Distribution)
- D.
 - 1. The contact is Mr. Russell Guerry. He can be reached at 252-823-2171. See Utility by Other Plans.