

ENGINEERING CERTIFICATION for the PROJECT SPECIAL PROVISIONS

**BRIDGE 205 OVER MUD CREEK**

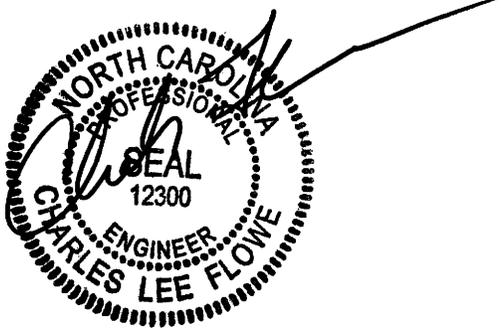
Old Spartanburg Highway (SR 1764) between US 176 and SR 1763

NCDOT PROJECT NUMBER:

B-5180

I hereby certify that the documents contained herein, for the project utility construction, were prepared by me or under my direct supervision.

Signed, Sealed, and Dated, this the third day of December, 2008.



**Charles L. Flowe, PE**  
PROJECT MANAGER

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**PROJECT SPECIAL PROVISIONS**

## Utility Construction

I. GENERAL CONSTRUCTION REQUIREMENTSSpecifications:

The proposed utility construction shall meet the applicable requirements of the North Carolina Department of Transportation's "Standard Specifications for Roads and Structures" dated July 18, 2006 and the following provisions:

The Contractor's attention is directed to the staging of construction as shown in the traffic control plans. The waterline construction at the bridge is not to occur until the Moving Ahead Project #: MA14005B is complete and open to traffic. The waterline construction at the bridge shall occur in the following sequence:

- 1) Shut off the water on each side of the existing bridge using existing valves.
- 2) Install the new Gate Valve & Valve Box inserts on each side of the bridge as shown in the plans. Set the newly installed gate valves to the "off" position.
- 3) Open the existing water valves that were initially shut off and allow water to flow in the existing 10" waterline to the newly installed valves. This will allow for all water service lines to use water during the remainder of construction.
- 4) Remove or abandon (as appropriate) the existing 10" waterline as the existing bridge demolition occurs.
- 5) After the piles have been driven (on the south side) and the drilled piers & sheet piling have been constructed (on the north side), perform the boring and jacking operation to install the 24" Spiral Welded Steel Encasement Pipe, 3/8" Thick under the railroad and creek as shown in the plans.
- 6) Install the 12" carrier pipe through the encasement pipe to the length shown in the plans and then construct the remainder of the new 12" waterline as shown in the plans by using the open-cut method.
- 7) After appropriate connections have been made to the existing 10" waterline, perform pressure & leakage tests and sterilization of the waterline.
- 8) Place the new waterline into service after approval of all testing & flushing and authorization by the Engineer.

The Contractor is herein also forewarned as to the possibility of having to vary the depth of pipeline installation to achieve minimum clearance of existing or proposed utilities or storm drainage while maintaining minimum cover specified (whether existing or proposed pipelines, conduits, cables, mains, and storm drainage are shown on the plans or not).

The Contractor shall locate all existing water and sewer services and relocate, connect, or reconnect as directed by the Engineer. New water and sewer services shall be installed as indicated on the plans and/or as directed by the Engineer.

Payment for the cutting and plugging of existing water lines to be abandoned shall be considered incidental to other pay items in the contract.

Pavement patching in existing roadway shall be according to NCDOT Standard Drawing Number 654.01

“Gate Valves” as noted on the plans shall be resilient-seat type valves conforming to ANSI/AWWA C509.

Owner and Owner’s Requirements:

The existing utilities belong to the City of Hendersonville. The Contractor shall provide access for the owner’s representatives during all phases of construction. The owners shall be notified two weeks prior to commencement of any work and one week prior to service interruption. Contact the City of Hendersonville at (828) 697-3073.

It shall be the Contractor’s responsibility to notify customers affected by necessary shut downs of the existing water system at least 24 hours in advance.

All work involving pipe restraint for connecting new water mains to the existing water mains shall be coordinated with the City of Hendersonville water inspectors.

The Contractor shall notify the City of Hendersonville at (828) 697-3073 before conducting any work involving existing water mains, and the Contractor shall coordinate these activities with City of Hendersonville water inspectors.

City of Hendersonville water inspectors shall witness all tests performed on water facilities. All test results for water facilities shall be provided to the City of Hendersonville.

Connections made to the existing water system for the purpose of loading and testing new water mains shall also be large enough to provide adequate flushing velocity. Water mains 12 inches and larger will also require a hydrant (temporary if one is not designated) for the purpose of flushing the water main. This shall be considered incidental to other pay items in the contract.

The owners shall be notified in advance of any interruption of water service with ample time to make arrangements. Interruption of water service on main lines shall be limited to a maximum of four (4) hours or as approved by the Engineer.

Utility Locations Shown on the Plans:

The location, size, and type of material of the existing utilities shown on the plans are from the best available information. The Contractor will be responsible for determining the exact location, size, and type of material of the existing facilities necessary for the construction of the utilities and to avoid damage to existing utilities.

II. 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.