

SPECIAL PROVISIONS

1. Fittings: Fittings and specials for this project, except for restrained joint fittings, shall be cast iron, ring-tite, slip joint or mechanical joint. Ring-tite and slip joint fittings shall meet all physical requirements of ANSI A21.10 with the exception of length and joint requirements of ANSI A21.11 specifications. Mechanical joint fittings shall meet all applicable requirements of ANSI A21.10 and ANSI 21.11 specifications with the exception of length. All fittings shall be designed for the type of pipe used. Payment for all fittings will be based on the main body weight, not including accessories, as published in ANSI A21.10 for all mechanical joint fittings. PVC fittings may be used for 4" and 2" PVC Pipe. The cost for PVC fittings shall be included in the price bid per l.f. of pipe since there will be no pay item for fittings other than cast iron.

The Contractor shall have the option of using cast iron fittings, as specified in the detailed specifications and Special Provisions, or ductile iron fittings. Ductile iron fittings shall be mechanical joint in accordance with the requirements of ANSI/AWWA C153/A21.53. The joints shall conform to ANSI/AWWA C111/A21.11. Bolts and nuts shall be low-alloy steel. Linings and coatings shall be as required in the specifications. Payment for fittings shall be as called for above. The Contractor shall indicate in the Bid Items whether he is bidding cast iron or ductile iron fittings.

2. Seeding and Mulching: The contractor shall seed and mulch an area 6 feet in width along the edge of the pavement that is disturbed by construction activities for the entire length of the pipeline. Other areas disturbed by the Contractor outside of the 6-foot width shall also be seeded and mulched by the Contractor. Payment for seeding and mulching shall not be made directly, but shall be included in the unit price bid per l.f. of pipe. See detailed specifications for fertilization and seeding rates.

3. In addition to the requirements set forth in the Earthwork Section of these specifications, the Contractor shall also obtain a letter from the District Engineer of the North Carolina Department of Transportation, addressed to Koonce, Noble & Assoc., Inc., Lumberton, North Carolina, stating that all clean up work along the pipe line route, within DOT rights-of-way, is acceptable to the DOT. The letter shall also contain a statement of approval of all pavement replacement sections within the DOT rights-of-way.

Department of Transportation
Division of Highways
District Engineer
U.S. Highway 1
Aberdeen, North Carolina 28315

4. The Contractor is instructed to control sedimentation run-off by methods approved by the Engineers, during the course of construction of this project. The contractor is reminded that all work shall meet all applicable requirements of the Rules and Regulations for Erosion and Sediment Control as published by the Department of Environment and Natural Resources, Division of Water Quality. Erosion control shall also be performed in accordance with the requirements contained in the current edition of the North Carolina Department of Transportation Standard Specifications for Roads and Structures.

5. The cost of sedimentation and erosion control, and dust control, shall be considered an incidental part of construction of this project and shall not be paid for directly but shall be included in the unit price bid per l.f. of pipe.

6. In addition to the 100 per cent Performance and Payment Bonds required by the Owner, the North Carolina Department of Transportation will require a Performance and Indemnity Bond for this project in the amount of \$25,000.00. The successful low bidder shall check with the District Engineer's Office before furnishing this bond in order that the bond may be executed in the proper manner. The encroachment agreement conditions that are listed in the original encroachment agreement apply to this contract. The only change is in the bond amount. A copy of the Encroachment Agreements is included in these Special Provisions.

The District Engineer's Office is to be notified prior to any work and notified in writing upon completion of the encroachment. The Performance and Indemnity Bond shall remain in effect for one year after completion of each section to warrant the work.

All work within the North Carolina Department of Transportation right-of-way shall be accomplished in accordance with North Carolina Department of Transportation's latest Policies and Procedures for Accommodating Utilities on Highway Rights-of-Way. Work shall also be in compliance with Department of Transportation's latest Manual on Uniform Traffic Control Devices for Streets and Highways and The North Carolina Construction and Maintenance Operations Supplement.

7. Adjustment of fire hydrant fittings and valves shown at intersections shall be made by the contractor in the field subject to the desire of the Engineer without any increase or decrease in unit price. Adjustment of the location of water mains and all appurtenances at the intersections from the location shown on the plans shall be made by the contractor in the field subject to the Engineer's direction without any increase or decrease in unit prices.

8. Corporation stops shall remain open during pressure testing.

9. Concrete for storm sewer separation as detailed shall not be paid for directly, but will be considered under the Bid Item for Concrete for Blocking.

10. Pavement Replacement: Maintenance of cut areas shall be further conditioned by the requirement of the Department of Transportation to replace any pavement removed within five working days from the date of removal.

Should the pavement removal and replacement be wider than the width specified, it shall be replaced at no expense to the Owner for the area exceeding the width shown. Payment for pavement replacement shall not be made until such work has been tentatively approved by the resident inspector. Such approval shall not be deemed final until the Engineer's office is provided a letter from the Department of Transportation's District Engineer, as specified under Item 3 of the Special Provisions.

For open cuts across roads with asphalt surfaces, the type and thickness of the asphalt surface and the base or the equivalent shall be replaced. The pavement is to be sawed or neatly cut perpendicular to the surface. The replacement surface and base shall extend a minimum of one (1) foot on each side of the excavated opening. A minimum of 2 inches of Bituminous Concrete Surface Course, Type I-2, shall be used to repair the travel surface. The base will consist of aggregate base course and shall be placed to a minimum depth of 8 inches or existing equivalent.

11. After each 10,000± l.f. of water main (length may vary according to valve and hydrant placement) is installed, the contractor shall begin the testing and sterilization procedure as outlined in the specifications. After the segment of line is approved by the engineers, it shall be blown off and placed in service by the contractor. Payment for pipe, valves, fittings, and services shall be limited to 75% of the total value until the pipeline in question has passed testing and sterilization requirements.

Appropriate letters from the Engineer shall be forwarded to the contractor after approval with the dates of acceptance shown. Letters of main acceptance shall not constitute final acceptance of any above-ground work, including clean up, asphalt or concrete replacement or turfing.

12. Substantial Completion: Substantial completion is defined as that point when the project has been completed in accordance with the plans and specifications and placed into service for the intended purpose and is operating properly. Placing portions of the project into service shall not be sufficient for substantial completion.
13. Water for Testing: The contractor shall be responsible for payment to the water system supplying the water for testing and flushing the water mains. The field engineer and contractor shall compute the gallons used and the contractor and field engineer shall agree to a final figure for payment. Payment to the suppliers shall be at the rate set by the supplier. Suppliers are Hoke County, Raeford, Hillcrest-Scurlock and McCain Water Systems.
14. PVC Pipe, of the double gasket type, will not be accepted unless it has been pre-belled at the factory. No pipe shall be belled in the field.
15. The contractor shall maintain at least a three-man testing crew during the course of this contract.
16. Only 3,000 PSI Ready Mixed Concrete shall be used for blocking. Dry pre-bagged mix shall not be allowed on this project. A blocking schedule is provided on the detail sheets of the plans. Payment shall not be for more than the amounts contained in this schedule unless the Engineer determines that a larger volume is required by field conditions. Concrete invoices shall be submitted with payment request.
17. Prior to installing services on a given line, the Contractor shall obtain the sign-up list for services on that particular line and shall install each service prior to releasing the line to the County. Upon notice that a particular service is incorrectly installed, Contractor shall repair the service within five working days.
18. Pipe manufacturer shall supply the test results of the quick burst tests conducted on the pipe supplied to the Engineer. Manufacturer shall also supply other quality control test results as requested by the Engineer.
19. The County reserves the right to have the pipe supplied to the job tested by an independent laboratory.
20. No PVC pipe shall be delivered to the job more than six months after date of manufacture. Manufacturer shall supply explanation of code so date of manufacture can be read from pipe.
21. A 1/2" PVC or iron pipe 15" long shall be installed in the brace pipe eye of meter setter on 3/4" services. A 3/4" PVC pipe 15" long shall be installed in the brace pipe eye of meter setter on 1" services.

22. The contractor shall install valve boxes in a true and plumb position that will enable Water Department personnel to use a valve wrench to operate said valve without uncovering the valve stem.

Prior to final acceptance of above-ground work, each valve installed by the contractor shall be checked by representatives of the Contractor, the Engineer, and the Hoke County Water Department to determine if the valve has been left in the fully open position and the valve box is set properly.

23. The Contractor shall install meter boxes in a true and plumb position level with the ground. Prior to final acceptance, each meter box installed by the Contractor shall be checked by representatives of the Contractor, the Engineer and the Hoke County Water Department to determine if the meter box has been installed properly.

24. The Contractor shall bury detection tape 4"-6" below the surface with all water mains. The tape shall be polyethylene with a metallic core and have the message "Caution - Water Line Buried Below" printed on it. Color of the tape shall be blue and minimum width of tape is to be 2 inches. Payment for this item shall be included in the unit price bid per l.f. of pipe.

25. Increase or Decrease in Unit Quantities: Hoke County, North Carolina, specifically under this contract, reserves the right to increase or decrease the unit quantities shown in the Schedule of Bid Items by 20% for a period of 60 days from the date of the Notice to Proceed without any increase in unit prices by the successful contractor. Added quantities over 20% of the original unit quantities will be negotiated with the successful contractor.

26. Casing shall extend a minimum of five feet from the edge of pavement in all cases.

27. All permits and licenses required by any City, County or any other unit of local government necessary for the prosecution of the work shall be paid for by the Contractor unless otherwise specified. The Contractor shall give all notices and comply with all laws, ordinances, rules and regulations bearing on the conduct of the work as drawn and specified. If the Contractor observes that the contract documents are at variance therewith, he shall promptly notify the Engineer in writing, and any necessary changes shall be adjusted as provided in Article 10 of the General Conditions, Changes in the Work.

28. The Contractor is solely responsible for contacting and coordinating all inspections with North Carolina Department of Transportation for work under this contract.

29. If the Contractor cannot provide the affidavit required in 14.02 A.2 of the General Conditions, he shall provide justification to the Engineer why payments received on account of the work have not been applied on account to discharge Contractor's legitimate obligations associated with prior payments.

30. North Carolina Department of Transportation will allow 2” and 4” dry bores on secondary roads within this contract. Payment for the required 2” and 4” dry bores will not be paid for directly but shall be considered an incidental cost of construction.

31. Pressure testing, disinfection and seeding and mulching shall not be included in the unit price of the pipe but shall be paid for under the bid item, “Pressure Testing, Disinfection and Seeding and Mulching”, for each size of water main installed. Payment for this item shall not be made for any section of pipe until that section has passed pressure testing, been properly disinfected, is ready to be placed into service and the seeding and mulching is complete and acceptable to the Department of Transportation. The amount bid for this item shall not be less than stated below:

12” Water Main	-15% of price bid per l.f. of 12” PVC water main.
8” Water Main	-20% of price bid per l.f. of 8” PVC water main.
6” Water Main	-30% of price bid per l.f. of 6” PVC water main.
4” Water Main	-35% of price bid per l.f. of 4” PVC water main.

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**HOKE COUNTY REGIONAL WATER SYSTEM
PHASE IV
DISTRIBUTION
CONTRACT 4**

BERNICE McPHATTER, COUNTY MANAGER

COMMISSIONERS

**JAMES A. LEACH, CHAIRMAN
ANTHONY (TONY) HUNT, VICE-CHAIRMAN
CLEO BRATCHER, JR.
CHARLES DANIELS
L. E. McLAUGHLIN, JR.**

**NEIL YARBOROUGH, COUNTY ATTORNEY
LINDA REVELS, CLERK TO THE BOARD
MIKE DEAN, PUBLIC UTILITIES DIRECTOR**

**KOONCE, NOBLE AND ASSOCIATES, INC.
CONSULTING ENGINEERS
LUMBERTON, NORTH CAROLINA
SEPTEMBER, 1999**

**HOKE COUNTY REGIONAL WATER SYSTEM
PHASE IV
DISTRIBUTION
CONTRACT 4**

**KOONCE, NOBLE AND ASSOCIATES, INC.
CONSULTING ENGINEERS
LUMBERTON, NORTH CAROLINA
SEPTEMBER, 1999**