



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

JOSH STEIN
GOVERNOR

DANIEL H. JOHNSON
SECRETARY

September 09, 2026

Addendum No. 1

RE: Contract # C204947

WBS # 35993.3.5, 35993.3.9

FEDERAL-AID NO. NHP-0321(037), NHP-0321(046)

Caldwell County (U-4700CA, U-4700CB)

INTERSECTIONS ON US-321 WITH SR-1160 (MOUNT HERMAN RD) AND SR
-1809/SR-1952 (PINE MOUNTAIN RD)

September 15, 2026 Letting

To Whom It May Concern:

Reference is made to the plans and proposal furnished to you on this project.

The following revisions have been made to the Roadway plans.

Sheet Nos.	Revision
3D-2	Revised to include the top elevation for Drainage Structure 0527.

Please void the above listed sheet in your proposal and staple the revised sheet thereto.

The following revisions have been made to the Utility Construction plans.

Sheet Nos.	Revision
UC-3C (U-4700CA)	Revised to include detail for Typical Casing Spacer
UC-3C (U-4700CB)	Revised to include details for Typical HDPE Connection and Typical Casing Spacer

Please void the above listed sheets in your proposal and staple the revised sheets thereto.

Mailing Address:
NC DEPARTMENT OF TRANSPORTATION
CONTRACT STANDARDS AND DEVELOPMENT
1591 MAIL SERVICE CENTER
RALEIGH, NC 27699-1591

Telephone: (919) 707-6900
Fax: (919) 250-4127
Customer Service: 1-877-368-4968

Website: www.ncdot.gov

Location:
1020 BIRCH RIDGE DR.
RALEIGH, NC 27610

The following revisions have been made to the proposal.

Page No.	Revision
Proposal Cover	Note added that reads “Includes Addendum No. 1 Dated 09-09-2026”.
UC-1A thru UC-8A	Revised to call out the HDPE DIPS designation

The contract will be prepared accordingly.

Sincerely,

Signed by:

E45DA45396074A0...

Jon Weathersbee, PE
State Contract Officer

JHW/jjr
Attachments

cc: Mr. Troy B. Brooks, PE
Mr. Michael L. Poe, PE
Mr. Joshua C. Sellers, PE
Mr. Malcolm Bell

Mr. Forrest Dungan, PE
Ms. Jaci Kincaid
Project File (2)

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH, N.C.

PROPOSAL

INCLUDES ADDENDUM No.1 DATED 09-09-2026

DATE AND TIME OF BID OPENING: **Sep 15, 2026 AT 02:00 PM**

CONTRACT ID C204947
WBS 35993.3.5, 35993.3.9

FEDERAL-AID NO. NHP-0321(037), NHP-0321(046)
COUNTY CALDWELL
T.I.P NO. U-4700CA, U-4700CB
MILES 0.973
ROUTE NO. US-321
LOCATION INTERSECTIONS ON US-321 WITH SR-1160 (MOUNT HERMAN RD) AND SR
-1809/SR-1952 (PINE MOUNTAIN RD).

TYPE OF WORK GRADING, DRAINAGE, PAVING, SIGNALS, AND WALL.

NOTICE:

ALL BIDDERS SHALL COMPLY WITH ALL APPLICABLE LAWS REGULATING THE PRACTICE OF GENERAL CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA WHICH REQUIRES THE BIDDER TO BE LICENSED BY THE N.C. LICENSING BOARD FOR CONTRACTORS WHEN BIDDING ON ANY NON-FEDERAL AID PROJECT WHERE THE BID IS \$40,000 OR MORE, EXCEPT FOR CERTAIN SPECIALTY WORK AS DETERMINED BY THE LICENSING BOARD. BIDDERS SHALL ALSO COMPLY WITH ALL OTHER APPLICABLE LAWS REGULATING THE PRACTICES OF ELECTRICAL, PLUMBING, HEATING AND AIR CONDITIONING AND REFRIGERATION CONTRACTING AS CONTAINED IN CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA. NOTWITHSTANDING THESE LIMITATIONS ON BIDDING, THE BIDDER WHO IS AWARDED ANY FEDERAL - AID FUNDED PROJECT SHALL COMPLY WITH CHAPTER 87 OF THE GENERAL STATUTES OF NORTH CAROLINA FOR LICENSING REQUIREMENTS WITHIN 60 CALENDAR DAYS OF BID OPENING.

BIDS WILL BE RECEIVED AS SHOWN BELOW:

THIS IS A ROADWAY & STRUCTURE PROPOSAL

5% BID BOND OR BID DEPOSIT REQUIRED

PROJECT SPECIAL PROVISIONS
Utility Construction



2154 North Center Street, Suite A-101
North Charleston, South Carolina 29406
Tel: (843)202-9003



DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

Where brand names and model numbers are specified in these Special Provisions or in the plans, the cited examples are used only to denote the quality standard of product desired and do not restrict bidders to a specific brand, make, or manufacturer. They are provided to set forth the general style, type, character, and quality of the product desired. Equivalent products will be acceptable.

The utility owner is the City of Lenior. The contact person is Jeff Church, and he can be reached by phone at 828-757-4459.

The utility owner is Caldwell County. The contact is Barry Calloway, and he can be reached by phone at 828-757-6865.

The provisions contained within these Utilities Construction Project Special Provisions modify the Standard Specifications only for materials used and work performed constructing water or sewer facilities owned by the City of Lenior and Caldwell County.

Revise the 2024 Standard Specifications as follows:

Division 10 - Section 1036- Water Pipe and Fittings

Page 10-66, Sub-article 1036-3 PLASTIC PIPE, (A) PVC Pipe, (2) Pressure Class Pipe:
Replace the article with the following:

Use PVC pipe conforming to AWWA C900 with a minimum DR of **14** and a minimum pressure class of **305** psi. Use pipe with push-on type joints having bells made as an integral part of the pipe conforming to ASTM D3139 or pipe with butt-fused joints made from ASTM D1784 Class 12454B plastic formulated for fusing.

Page 10-66, Sub-article 1036-3 PLASTIC PIPE, (B) Polyethylene (PE) Pipe:

Add the following sentences:

HDPE pipe shall be DIPS designation.

Page 15-1, Sub-article 1500-2 Cooperation with the Utility Owner, paragraph 2:

Add the following sentences:

All water and sewer lines are to remain active during construction of the project. To accomplish this, the Contractor may elect to utilize bypass pumping, line stops, inserting valves, temporary water or other methods to complete the work. These methods and means of construction must be approved by the engineer prior to commencement of the work and all such work shall be considered incidental to various other utility pay items included in the contract. All proposed water line and sewer line relocation work shall be performed at a time to be coordinated with the utility owner. Water lines or sewer lines shall not be taken out of service without prior approval of the utility owner and service interruptions shall not exceed four hours. Contractor shall not interfere or cover active water or sewer infrastructure including but not limited to water meters, water valves and sewer cleanouts.

Division 15, Section 1500-General Utility Requirements

Page 15-1, Sub-article 1500-1 Description

Add the following sentences:

Construction of all water and sewer systems shall be in accordance with the NCDOT standards, NCDEQ standards or the local jurisdictional standards whichever is more stringent and Special Provisions in effect at the time of bid.

Page 15-1, Sub-article 1500-2 Cooperation with the Utility Owner

The Utilities (City of Lenior and Caldwell County Water) shall be notified 48 hours prior to any testing. Any tests not witnessed by the Utilities will not be accepted.

Section 1036- Water Pipe and Fittings

Page 15-1, Sub-article 1500-2 Cooperation with the Utility Owner, paragraph 2:

Add the following sentences:

All water and sewer lines are to remain active during construction of the project. To accomplish this, the Contractor may elect to utilize bypass pumping, line stops, inserting valves, temporary water or other methods to complete the work. These methods and means of construction must be approved by the engineer prior to commencement of the work and all such work shall be considered incidental to various other utility pay items included in the contract. All proposed water line and sewer line relocation work shall be performed at a time to be coordinated with the utility owner. Water lines or sewer lines shall not be taken out of service without prior approval of the utility owner and service interruptions shall not exceed four hours. Contractor shall not interfere or cover

active water or sewer infrastructure including but not limited to water meters, water valves and sewer cleanouts.

Page 15-1 and 15-2, Article 1500-5 RELATION OF WATER MAINS TO NON-POTABLE WATER LINES AND OTHER UTILITIES, lines 39-42 and lines 1-5, replace the article with the following:

Lay water mains at least 10 feet laterally from existing or proposed sanitary sewers or reclaimed water distribution lines. If local conditions or barriers prevent a 10-foot separation, lay the water main with at least 18 inches vertical separation above the top of the sanitary sewer or reclaimed water distribution pipe either in a separate trench or in the same trench on a bench of undisturbed earth.

For storm drain pipe or other utilities, lay the water main with at least 12 inches separation from the outside of the water main and the outside of the other facility.

One full length of water pipe at the point of crossing shall be located so that both joints will be as far from the sanitary sewer or reclaimed water distribution pipe as possible. If practicable, the water main shall be located above the sewer or reclaimed water distribution line.

Page 15-2, Sub-article 1500-7 SUBMITTALS AND RECORDS, paragraph 3:

Add the following sentences:

Any revisions to the utility plans shall be approved by the utility design engineer and reviewed and approved by the City/County prior to construction.

Partial and final engineering utility certifications should be provided by the design engineer prior to activation of services.

As-built plans and associated documentation shall be provided to the Engineer prior to acceptance of the work. A final inspection walk through with representation from the City, the County, NCDOT, Contractor, and design engineer at completion of punch-list items is required before final acceptance.

As-built plans shall be provided to the City of Lenoir and Caldwell County showing the size and type of material installed and the coordinates of all utility horizontal and vertical locations of all installed piping and appurtenances. As-built drawings shall be signed, sealed and dated on each sheet by a North Carolina registered engineer (PE) as part of the acceptance process. As-Built Drawings shall be submitted and approved prior to issuance of final acceptance. All applicable information listed in the City's/County's as-built drawing checklist shall be included.

Submit to the City's/County's Engineering Department certified "Surveyed As-Built Drawings", including a .dxf and/or .dwg file and a PDF of the as-built construction drawings and a comma-delimited text file of the infrastructure and easement points with point descriptions (including point number, northing, easting, elevation, description).

Page 15-4, Sub-article 1505-3 (E) Thrust Restraint for Ductile Iron Water Pipe Paragraph 3

Add the following:

Thrust Collars shall be installed on water line pipe at all points recommended by the ENGINEER. Thrust collars shall be considered an integral part of the water line work. Work shall include a minimum of 3,000 psi concrete, reinforcement bars, threaded rod, mechanical joint restraint (AWWA C110) and anchor ring, as shown in detail.

Where feasible, joint restraints shall be used in lieu of concrete thrust collars, as approved by the Engineer.

Measurement & Payment:

Thrust Collars shall be constructed as shown in the detail, paid per each and installed in place at the location shown on the Drawings or as directed by the Engineer.

Page 15-6, Sub-article 1510-3(B) Testing and Sterilization:

Add the following:

After the pipeline has been satisfactorily constructed complete with the required fire hydrants, services, and all other appurtenances, and the trench backfilled satisfactorily, and after line flushing and approval by the Engineer, the newly constructed pipeline and valved sections shall be subjected to a hydrostatic pressure leakage test. The Contractor shall notify the Engineer when the work is ready for testing with all testing done in the presence of the Engineer. All labor, equipment, water and materials, including meters and gauges shall be furnished by the Contractor at his own expense.

Ductile iron pipe will be tested in accordance with AWWA standards or NC DEQ requirements, whichever is most stringent.

Each completed section of the pipeline shall be plugged at both ends and slowly filled with water. As the main is being filled with water in preparation of the tests, all air shall be expelled from the pipe. The main shall be subjected to hydrostatic pressure of 200 pounds per square inch for a period of two (2) hours unless otherwise specified. Pressure shall be applied to the main by means of a hand pump for small lines or by use of a gasoline pump or fire engine for larger lines.

The rate of leakage shall be determined at fifteen (15) minute intervals by means of volumetric measurement of the water added during the test until the rate has stabilized at the constant value for three (3) consecutive fifteen (15) minute periods.

Leakage is defined as the quantity of water to be supplied into the newly laid pipe, or any valved section, necessary to maintain the specified leakage test pressure after the pipe has been filled with water and the air expelled. No piping installation will be accepted until the leakage is less than ten (10) gallons per inch of pipe diameter per mile of pipe per twenty-four (24) hours.

Cracked or defective pipe, joints, fittings, valves, or hydrants discovered in consequence of this test shall be removed and replaced with sound materials, and the test shall be repeated until the

test results are satisfactory. Precautions shall be taken to remove or otherwise protect equipment in, or attached to, pipe to prevent damage or injury.

Pipe interiors, fittings, and valves shall be protected from contamination. Pipe delivered for construction shall be strung so as to minimize entrance of foreign matter. When pipe laying is not in progress for more than one hour, all openings in the pipeline shall be closed by watertight plugs. Joint of all pipe in the trench shall be completed before work is stopped. If water accumulates in the trench, the plug shall remain in place until the trench is dry.

If dirt enters the pipe that, in the opinion of the Engineer, will not be removed by flushing operations, the interior of the pipe shall be cleaned and swabbed as necessary, with a 5% hypochlorite disinfecting solution.

Sampling taps may be used as blow-offs. The number and locations of the taps/blow-offs must be approved by the Engineer. Hydrants may not be used for bacterial sampling.

The Contractor shall construct taps so that bacteriological samples can be easily collected without danger to personnel or likelihood of sample contamination. The Contractor shall legibly mark each sample tap with identifying letters or numbers for sample reference purposes. The Contractor shall not designate hydrants as taps for bacteriological sampling purposes. If the service or corporation taps are installed before the laboratory tests are completed, each tap will be tested for coliform bacterial.

Before being placed in service, all new mains and existing piping disturbed in any manner by the work shall be disinfected. Draining the water from existing piping or even lowering the water pressure more than one-half will constitute disturbance of the piping.

The disinfecting of water mains, valves and other appurtenances incorporated into the main construction shall be done by means of a chlorinating measuring apparatus, with proper devices for regulating the flow and providing an effective diffusion into the water within the main being disinfected by an application of chlorine-bearing compound bearing a high-test calcium hypochlorite (65-70%) available chlorine). In the preparation of the solution, the powder shall first be made into a paste and then gradually thinned with water to approximately 1% chlorine solution (10,000 parts per pound of powder). This will require about 7.50 gallons of water to each one pound of powder. Solution shall be applied to the main through a rubber hose by gravity, siphonage, injection or by suitable pump feeder.

The point of chlorine application shall be at the beginning of the water main construction and/or any valve section thereof, through corporation cock installed close to and on the downstream side of the regulating gate valve controlling the flow of such proportion to the rate of water flow entering the main that the chlorine applied shall produce fifty (50) parts per million (420 pounds per million gallons) chlorine concentration in the water within the main.

During the disinfecting operation, valves, hydrants, and other mechanical devices controlling the flow of water shall be operated to permit full effectiveness of the chlorine. Valves shall be manipulated so that the strong solution within the main being sterilized will not flow back into the

supply line nor flow into mains already in service. A chlorine concentration test shall be made, in turn, at each of the hydrants and/or taps provided for that purpose.

The tablet method of disinfection may be utilized for disinfection provided the total length of potable water main to be laid is less than 2,000 linear feet of pipe less than 12" in diameter. This method will be suitable only, if in the opinion of the Engineer, the pipeline has been maintained suitable free from foreign matter and any other contaminants during construction.

The Contractor shall provide sampling taps, Generally, sampling taps shall be provided on the water main every 1,000' and at the end of each main and at the end of each branch, in order to afford representative water testing and sample collection.

All disinfection shall be performed in accordance with AWWA Standard C651 and the Rules Governing Public Water Systems. All bacteriological tests shall be performed by a state-approved, certified laboratory per Rule .1001.

Page 15-10, Sub-article 1520-3(A) Gravity Sanitary Sewer:

Add the following sentences:

Sewer by-pass pump plan shall be submitted for the City's approval with primary and backup pump specifications with telemetry to carry full flows of the sewer lines along with quick disconnect galvanized piping.

Air-testing will be conducted as the project is being installed. This includes all mainline between manholes, future mainline stubs and laterals out of manholes. The air testing shall be in accordance with ASTM F 1417.

CCTV all gravity sewer. All defects shall be corrected to the City's satisfaction prior to acceptance.

Deflection testing of all new PVC sewer pipe shall be conducted 30 days after installation and backfilling of the pipe or as otherwise directed by the Engineer.

The contractor shall furnish all necessary equipment including an approvable mandrel or other approved device and conduct the deflection tests at the direction of the Engineer.

The maximum allowable limits for deflection of installed pipe under this specification shall be 7.5%. Base inside diameters and 7.5% deflection mandrel dimensions shall be per ASTM F-679 (latest edition). Deflection shall be measured with a rigid mandrel (Go/No Go) device cylindrical in shape and constructed with a minimum of nine evenly spaced arms or prongs. Drawings of the mandrel with complete dimensions shall be submitted to the Engineer for each diameter of pipe to be tested. The mandrel shall be hand pulled through all sewer lines.

Any section of sewer not passing the mandrel shall be uncovered and the bedding and backfill replaced to prevent excessive deflection. Repaired pipe shall be retested to ensure that acceptable deflection limits are not exceeded.

The Contractor shall furnish and install during backfill operation for all gravity mainline sewers and laterals printed polyethylene green (SEWER) tape above the bedding material, three (3) feet above the crown of the pipe.

All testing of pipe and associated sewer manholes and appurtenances shall be considered incidental to the applicable pay items for gravity sanitary sewer pipe.

Page 15-14, Sub-article 1525-3(B) Installation of Precast Units:

Add the following sentences:

Air Testing of all new manholes is required and shall meet the requirements of ASTM C1244. Manholes shall be sealed with plate-style sealing equipment on top of the casting so that the adjustment rings can also be tested. Bladder-style sealers are not acceptable. If a lateral is extended out of a manhole to a property the lateral shall be air tested with the manhole test, i.e. the lateral shall not be sealed off during the test.

All testing of manholes and appurtenances shall be considered incidental to the applicable pay items for utility manholes.

Page 15-15, Sub-article 1525-3(D) Testing:

Add the following sentence:

Vacuum test all existing manholes with new connections before grouting and backfilling. Test according to ASTM C1244.

REMOVE AND STOCKPILE FIRE HYDRANT

Construction Methods:

The existing fire hydrants to be removed and stockpiled will be separated at the hydrant base from the existing pipe and stockpiled in an area accessible by truck or as directed by the Engineer.

After the fire hydrants are stockpiled, the Contractor shall contact the utility and arrange for the utility to receive and remove the fire hydrants.

Measurement and Payment:

The quantity of fire hydrants removed, stockpiled, and accepted, will be measured and paid for at the contract unit price per each for *Remove and Stockpile Fire Hydrant*. All labor, excavation, removal, stockpiling, and incidentals necessary to complete the work as required are incidental to *Remove and Stockpile Fire Hydrant*.

Pay Item:

Remove and Stockpile Fire Hydrant

Pay Unit

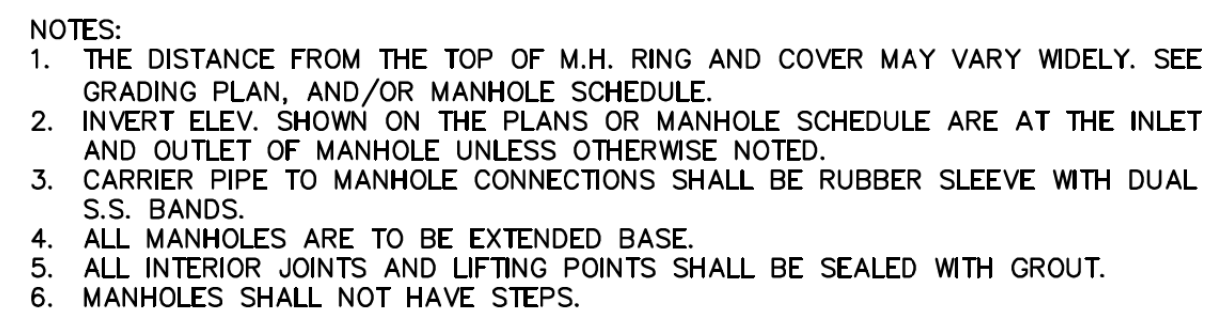
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END OF SECTION



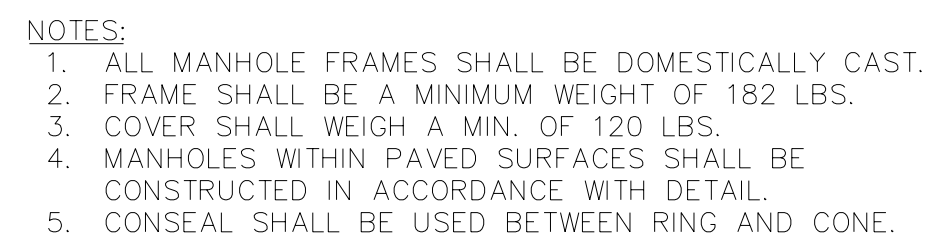
TYPICAL CASING SPACER

NOT TO SCALE



**STANDARD PRECAST SANITARY SEWER
MANHOLE (ECCENTRIC)**

NOT TO SCALE



MANHOLE FRAME AND WATERTIGHT COVER

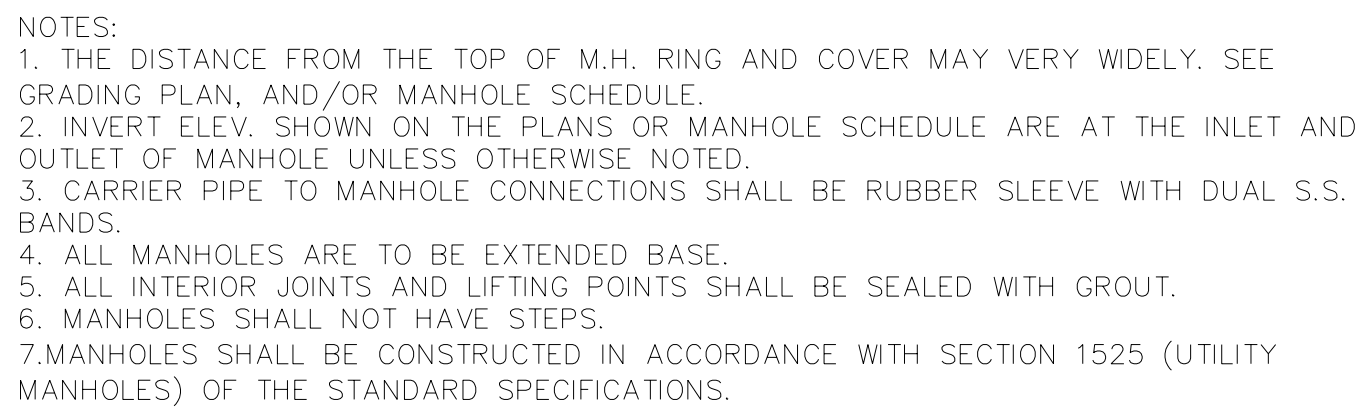
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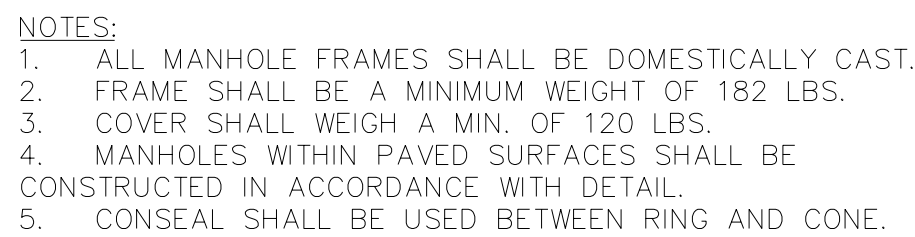
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