

UTILITY CONSTRUCTION

GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2012.
2. THE EXISTING UTILITIES BELONG TO THE TOWN OF SNOW HILL, NORTH CAROLINA.
3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY, DIVISION OF WATER RESOURCES, PUBLIC WATER SUPPLY SECTION. ALL SEWER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT QUALITY, DIVISION OF WATER RESOURCES, WATER QUALITY SECTION. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE PLUMBING CODES.
4. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY THE DEPARTMENT. THE DEPARTMENT OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON THE DEPARTMENT OR THIS CONTRACT UNLESS AUTHORIZED BY THE ENGINEER. AGREEMENTS BETWEEN THE UTILITY OWNER AND CONTRACTOR FOR THE WORK THAT IS NOT PART OF THIS CONTRACT OR IS SECONDARY TO THIS CONTRACT ARE ALLOWED, BUT ARE NOT BINDING UPON THE DEPARTMENT.
5. PROVIDE ACCESS FOR THE DEPARTMENT PERSONNEL AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY DEPARTMENT PERSONNEL AND THE UTILITY OWNER TWO WEEKS PRIOR TO COMMENCEMENT OF ANY WORK AND ONE WEEK PRIOR TO SERVICE INTERRUPTION. KEEP UTILITY OWNERS' REPRESENTATIVES INFORMED OF WORK PROGRESS AND PROVIDE OPPORTUNITY FOR INSPECTION OF CONSTRUCTION AND TESTING.

6. THE PLANS DEPICT THE BEST AVAILABLE INFORMATION FOR THE LOCATION, SIZE, AND TYPE OF MATERIAL FOR ALL EXISTING UTILITIES. MAKE INVESTIGATIONS FOR DETERMINING THE EXACT LOCATION, SIZE, AND TYPE MATERIAL OF THE EXISTING FACILITIES AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DEPARTMENT.
7. MAKE FINAL CONNECTIONS OF THE NEW WORK TO THE EXISTING SYSTEM WHERE INDICATED ON THE PLANS, AS REQUIRED TO FIT THE ACTUAL CONDITIONS, OR AS DIRECTED.
8. MAKE CONNECTIONS BETWEEN EXISTING AND PROPOSED UTILITIES AT TIMES MOST CONVENIENT TO THE PUBLIC, WITHOUT ENDANGERING THE UTILITY SERVICE, AND IN ACCORDANCE WITH THE UTILITY OWNER'S REQUIREMENTS. MAKE CONNECTIONS ON WEEKENDS, AT NIGHT, AND ON HOLIDAYS IF NECESSARY.
9. ALL UTILITY MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

SPECIAL PROVISIONS:


THE TOWN OF SNOW HILL IS THE OWNER OF THE EXISTING WATER SYSTEM AND THE EXISTING SANITARY SEWER SYSTEM

PROJECT SPECIFIC NOTES:

1. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. IT IS CONTRACTOR'S RESPONSIBILITY TO HAVE BORE DESIGNED AND SEALED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER. NO DAMAGE IS ALLOWED TO RIVER, WETLANDS, OR BUFFER ZONES.
2. IF HDPE PIPE IS INSTALLED BY DIRECTIONAL DRILL. IT SHALL BE FILLED WITH WATER AND NOT BE CONNECTED TO ANY OTHER PIPE OR FITTINGS FOR ONE WEEK FROM THE TIME OF INSTALLATION.

WATER MAIN GENERAL CONSTRUCTION NOTES

1. Utilities shown on plans are as accurate as current records and information allow. Contractor will be responsible for verifying the location of all existing utilities and services whether shown on plans or not prior to construction. Contractor shall be responsible for removal and replacement of these facilities if damaged.
2. All proposed water mains to be SDR-21 unless otherwise noted on the plans.
3. Minimum cover of 3'-0" shall be maintained for all water mains unless otherwise noted. No additional payment will be made for water mains installed at depths greater than 3'-0" when directed by the Engineer or required by field conditions.
4. Whenever a water main crosses over a storm pipe with less than 18" of separation, or passes under a storm pipe the water main needs to be ferrous (DIP) for 10'-0" on each side of the crossing. Joints should be centered of the pipe crossing. The contractor may be required to install ductile iron water mains at other roadway culvert crossings at the direction of the engineer.
5. In the event the minimum 3'-0" cover and minimum 2'-0" separation can be maintained, the Contractor may install the proposed water main over existing storm drainage if approval from the State of North Carolina Department of Transportation is granted.
6. Water mains shall be laid at least 10'-0" laterally from existing or proposed sewers, unless local conditions or barriers prevent a 10'-0" lateral separation in which case:
 - a) The water main is laid in a separate trench, with the elevation of the bottom of the water main at least 18 inches above the top of the sewer or,
 - b) The water main is laid in the same trench as the sewer with the water main located at one side on the trench of undisturbed earth, and with the elevation of the bottom of the water main at least 18 inches above the top of the sewer.
7. Whenever it is necessary for a water main to cross over a sewer, the water main should be laid at such an elevation that the bottom of the water main is at least 18 inches above the top of the sewer, unless local conditions or barriers prevent an 18 inch vertical separation--in which case both water main and sewer shall be constructed of ferrous materials and with the joints that are equivalent to water main standards for a distance of 10'-0" on each side of the point of crossing.
8. Whenever it is necessary for a water main to cross under a sewer, both the water main and the sewer shall be constructed of ferrous materials and with joints that are equivalent to water main standards for a distance of 10'-0" on each side of the point of crossing. A section of water main pipe shall be centered at the point of crossing.
9. Proposed water main installations under ALL existing driveways shall be bored when the proposed water main is less than 12 inches in diameter.
10. All existing driveway culverts that conflict with the proposed water main offset as shown on the plans shall be removed and replaced.
11. Driveways shall be restored to original or better condition immediately after completion of installation of water main across same.
12. All work necessary for the installation of the proposed water mains including those items called for in these notes and as shown in the project specifications shall be included in the unit price bid for the appropriate water main item.

PROJECT REFERENCE NO.		SHEET NO.
R-5812		UC-3
DESIGNED BY: WLY	6/25/2018	
DRAWN BY: WLY		
CHECKED BY: .		
APPROVED BY: .		
REVISED:		
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY
UTILITIES ENGINEERING SEC. PHONE: (919)707-6690 FAX: (919)250-4151		

UTILITY CONSTRUCTION

GREEN ENGINEERING
 WATER, WASTEWATER, SURVEYING, PLANNING, PROJECT MANAGEMENT
 NC FIRM LICENSE: P-0115
 303 GOLDSBORO ST. E. P.O. BOX 609 WILSON, NC. 27893
 TEL. (252) 237-5365 FAX (252) 243-7489 office@greeneng.com

CONSTRUCTION SEQUENCE

1. CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION OF PROPOSED IMPROVEMENTS BY CONTACTING NORTH CAROLINA 811 (NC811).
2. PRIOR TO BEGINNING WORK IN PUBLIC RIGHTS OF WAYS THE CONTRACTOR SHALL PROPERLY CLOSE ANY/ALL LANES REQUIRED FOR INSTALLATION OF PROPOSED UTILITIES AND HAVE PROPER 'DETOUR ROUTES' ESTABLISHED WITH REQUIRED SIGNAGE POSTED ALONG THE DETOUR ROUTES.
3. THE WATER PROFILE LENGTH REFERENCED ON THE CONSTRUCTION DRAWINGS REFERS TO THE HORIZONTAL LENGTH OF THE BORE BASED ON THE CENTERLINE STATIONING OF THE ROADWAY.
4. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CONTACT THE FOLLOWING INDIVIDUALS AND NOTIFY THEM OF THE ANTICIPATED START DATE AND SCHEDULE:
 - LEO GREEN (GREEN ENGINEERING) 252-237-5365
 - TODD WHALEY (TOWN OF SNOW HILL PUBLIC WORKS DIRECTOR) 252-560-5949
 - JOE ROBERTS (TOWN OF SNOW HILL PWS / WASTEWATER ORC) 252-939-5213
 - DAVID JONES (GREENE COUNTY PUBLIC WORKS DIRECTOR) 252-747-5720
 - CASEY WHITLEY (NCDOT-PROJECT ENGINEER) 252-439-2811
 - DAVID KRAMER (NCDOT-DIVISION UTILITY ENGINEER) 252-439-2805
5. THE CONTRACTOR SHALL COORDINATE WITH TOWN OF SNOW HILL AS WELL AS GREENE COUNTY PUBLIC UTILITIES ON LOCATING SYSTEM VALVES SO THE WATER MAIN BEING RELOCATED AND OTHER ADJACENT MAINS CAN BE ISOLATED IN CASE OF A SYSTEM BREAK DURING CONSTRUCTION OR DURING CONNECTION OF THE NEWLY INSTALLED MAIN WITH THE EXISTING MAIN.

**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**