

5/14/19

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 2018 AND ONWASA STANDARD SPECIFICATIONS AND DETAILS.
2. THE EXISTING UTILITIES BELONG TO ONWASA.
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.

PROJECT SPECIFIC NOTES:

1. PROPOSED WATER LINE SHALL BE PVC C900 DR-18, CLASS 235 (RESTRAINED JOINT), AND FUSIBLE PVC C900 FOR HORIZONTAL DIRECTION DRILL (HDD) AS INDICATED ON THE CONSTRUCTION DRAWINGS.
2. 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.
3. TRACER WIRE, WARNING TAPES, AND UTILITY MARKERS SHALL BE INSTALLED WITH ALL PLASTIC PIPE UTILITIES. WIRE, TAPE AND PIPE SHALL BE COLOR CODED ACCORDING TO UTILITY (BLUE FOR WATER) AND SHALL BE IN ACCORDANCE WITH NCDOT SPECIFICATIONS AND ONWASA'S MANUAL OF STANDARDS, SPECIFICATIONS, AND DETAILS.
4. EXISTING CONDITIONS SURVEY AND PROPOSED HIGHWAY PLANS PROVIDED TO THE WOOTEN COMPANY BY NCDOT.
5. FUSED PVC LENGTHS THAT HAVE BEEN INSTALLED IN THE TRENCH SHALL NOT BE BENT OR JOCKEYED INTO POSITION WITH HEAVY EQUIPMENT IN ORDER TO CONNECT TO FITTINGS. ALL ALIGNMENT CORRECTIONS TO TAKE PLACE IN THE DIP FITTINGS.
6. THRUST COLLARS ON EXISTING UTILITIES ARE TO BE INSTALLED AND CURED PRIOR TO CONNECTION OF NEW UTILITIES TO EXISTING UTILITIES.
7. CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE SHUTDOWN WITH ONWASA AND HAVING ADEQUATE STAFF AND MATERIALS TO COMPLETE THE CUT-IN CONNECTION DURING THE SPECIFIED SHUTDOWN.

PREPARED IN THE OFFICE OF:  THE WOOTEN COMPANY <small>120 North Roper Avenue Raleigh, NC 27603-1423 919.428.0311 Fax 919.428.3109 License Number: F-1015</small>	PROJECT REFERENCE NO.	SHEET NO.
	B-5626	UC-3
DESIGNED BY: DGM		
DRAWN BY: TK		
CHECKED BY: CMG		
APPROVED BY: DGM	REVISED: NORTH CAROLINA DEPARTMENT OF TRANSPORTATION UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	
WATER LINE CONSTRUCTION SHOWN ON THIS SHEET		

UTILITY CONSTRUCTION

* SUGGESTED CONSTRUCTION SEQUENCE IS PROVIDED AS A GUIDE ONLY AND NOT INTENDED TO BE BINDING. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ADEQUATE SEQUENCING TO COMPLETE THE INSTALLATION.

SUGGESTED CONSTRUCTION SEQUENCE

1. CONTRACTOR TO INSTALL THRUST COLLAR SHOWN AT STA 0+00 (WL) ON SHEET UC-4. THRUST COLLAR MUST CURE AND ATTAIN 3,000 PSI STRENGTH.
2. CONTRACTOR TO SCHEDULE WATER SERVICE OUTAGE WITH ONWASA FOR ALL SERVICES ON HWY 50 BETWEEN PADGETT ROAD (SR 1104) AND HAWS RUN ROAD (SR 1105)
3. ONWASA TO CLOSE EXISTING IN-LINE VALVE AT PADGETT ROAD – HWY 50 INTERSECTION.
4. ONWASA TO CLOSE EXISTING IN-LINE VALVE AT HAWS RUN ROAD – HWY 50 INTERSECTION, ISOLATING HWY 50 BETWEEN PADGETT AND HAWS RUN ROADS (INCLUDES PROJECT SITE).
5. CONTRACTOR TO CUT-IN A NEW 8" GATE VALVE AND BLOW-OFF ON THE EXISTING MAIN AT STA 0+10 ON SHEET UC-4. ONCE PROPERLY INSTALLED CONTRACTOR TO CLOSE NEW 8" GATE VALVE.
6. ONWASA TO RE-OPEN EXISTING IN-LINE VALVE AT HAWS RUN ROAD INTERSECTION TO RESTORE SERVICE TO CUSTOMERS NORTH OF THE CONSTRUCTION SITE ON HWY 50.
7. ONWASA TO LEAVE EXISTING IN-LINE VALVE AT PADGETT ROAD CLOSED FOR DURATION OF THE RELOCATION PROJECT, AS THERE ARE NO SERVICES/CUSTOMERS BETWEEN THE CONSTRUCTION SITE AND PADGETT ROAD.
8. CONTRACTOR INSTALLS NEW 8" WATERLINE AND 8" GATE VALVE PER THE DRAWINGS.
9. ONCE INSTALLED, TESTED AND CHLORINATED, CLOSED VALVES ARE OPENED AND LINE PUT INTO SERVICE.

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