

11/18/23

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 2024.

2. THE EXISTING UTILITIES BELONG TO TUCKASEIGEE WATER AND SEWER AUTHORITY (TWSA). PLEASE CONTACT MR. BOBBY MORRIS, DISTRIBUTION AND COLLECTION SUPERINTENDENT, 1246 WEST MAIN STREET, SYLVA, NC 28779, (828) 507-4866, bmorris@twasnc.us

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 ENVIRONMENTAL 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 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 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:

UTILITY CONSTRUCTION NOTES:

1. ALL FITTINGS SHALL BE DUCTILE IRON MECHANICAL JOINT USING GRIP RINGS. NO GLUE OR PUSH-ON FITTINGS ARE ALLOWED. THRUST BLOCKING IS REQUIRED.

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 SHALL BE ALLOWED TO RIVER, WETLANDS OR BUFFER ZONES.

3. IF HDPE PIPE IS INSTALLED BY DIRECTIONAL DRILL, IT SHALL BE FILLED WITH WATER AND NOT BE CONNECTED TO ANY OTHER PIPE OR FITTING FOR ONE WEEK FROM THE TIME OF INSTALLATION.

4. NEW WATER LINES MUST BE PRESSURE TESTED AT 200 PSI OR 1.5 TIMES AVERAGE STATIC PRESSURE IN PROJECT AREA, WHICHEVER IS MORE FOR 2 HOURS. TEST TO BE OBSERVED BY TUCKASEIGEE WATER AND SEWER AUTHORITY REPRESENTATIVE AND THE NCDOT RESIDENT ENGINEER OR EQUIVALENT.

5. SERVICE INTERRUPTIONS SHALL BE SCHEDULED WITH TUCKASEIGEE WATER AND SEWER AUTHORITY AND SHALL BE COMPLETED DURING OFF-PEAK HOURS- BEGINNING AFTER 9 PM AND BE COMPLETED BY 4 AM, UNLESS AUTHORIZED BY TUCKASEIGEE WATER AND SEWER AUTHORITY. INTERRUPTION SHALL NOT EXCEED 8 HOURS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY POTABLE WATER SUPPLIES TO ANY CUSTOMER UPON REQUEST BY TWSA AND/OR WHEN DURATION OF THE WATER SERVICE LOSS OR DISRUPTION EXCEEDS 4 HOURS.

6. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING AFFECTED CUSTOMERS OF ANY SERVICE OUTAGES. CONTRACTOR SHALL COORDINATE WITH TWSA ON ALL CUSTOMERS THAT MAY BE IMPACTED. THIS SHALL APPLY TO ANY EXISTING LINES WHERE PRESSURE IS LOST AND A BOIL WATER ADVISORY IS ISSUED.

7. ALL TESTING TO BE PERFORMED USING APPROVED BACKFLOW PREVENTION. ALL NC DEQ-DWR-PWS AND LOCAL TESTING MUST BE COMPLETED AND APPROVED PRIOR TO CONNECTING THE NEW CONSTRUCTION TO THE EXISTING WATER LINES. SEE DETAIL SHEET UC-3C.

8. THE PROFESSIONAL ENGINEER (PE) SHALL OBTAIN AND PROVIDE THE NC DEQ "AUTHORIZATION TO CONSTRUCT" PERMIT TO THE UTILITY CONTRACTOR BEFORE THE CONSTRUCTION OF THE WATER LINE SHALL BEGIN. THE UTILITY CONTRACTOR MUST POST A COPY OF THE NC DEQ "AUTHORIZATION TO CONSTRUCT" PERMIT ISSUED BY THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL QUALITY ON SITE PRIOR TO THE START OF CONSTRUCTION. THE PERMIT MUST BE MAINTAINED ON SITE THROUGHOUT THE ENTIRE CONSTRUCTION PROCESS OF THE PROPOSED WATER LINES THAT WILL SERVE THIS PROJECT. ANY SIGNIFICANT CHANGE FROM THE SEALED PLANS SHALL REQUIRE NOTIFICATION AND APPROVAL FROM PWS AND NCDOT PRIOR TO MAKING THE MODIFICATION.

JACKSON COUNTY

PROJECT REFERENCE NO.		SHEET NO.
R-5600		UC-3
DESIGNED BY: ELM	SEAL 2023 PROFESSIONAL ENGINEER 8/26/2023 U. JIMPLEY	
DRAWN BY: HSN		
CHECKED BY: MUP		
APPROVED BY: MUP		
REVISED:		
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION		UTILITY CONSTRUCTION PLANS ONLY
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151		
DOCUMENT NOT CONSIDERED FINAL UNTIL ALL SIGNATURES ARE COMPLETED		

UTILITY CONSTRUCTION

9. HDPE PRESSURE PIPE FOR POTABLE WATER SHALL MEET THE REQUIREMENTS OF NSF 61.

10. ANY NECESSARY CONNECTIONS FOR TESTING AND FILLING THE INSTALLED WATER MAIN WILL BE REQUIRED AND CONSIDERED INCIDENTAL TO THE WATER MAIN CONSTRUCTION. SEE DETAIL SHEET UC-3C.

11. CONTRACTOR IS REQUIRED TO PROVIDE TWSA AND NCDOT A SEWER BY-PASS PLAN PRIOR TO BEGINNING ANY SEWER WORK.

12. CONTRACTOR WILL BE REQUIRED TO TELEWISE SANITARY SEWER LINE PRE & POST CONSTRUCTION OF EXISTING 8” OR LARGER TERRACOTTA LINE TO REMAIN WITHIN PROJECT LIMITS.

13. CONTRACTOR SHALL CONFORM TO SPECIAL PROVISIONS.

14. TRACER WIRE MUST BE PLACED ON ALL BURIED TWSA LINES EXCEPT GRAVITY SEWER.

15. METALLIC BURY TAPE MUST BE PLACED ON ALL TWSA LINES INCLUDING GRAVITY SEWER. THE BURY TAPE MUST ALWAYS BE USED ABOVE A UTILITY, REGARDLESS OF WHAT IT IS.

16. PRIOR TO CONSTRUCTION OF THE MILL CREEK CULVERT, A 2" TEMPORARY SERVICE MAIN SHALL BE INSTALLED AS SHOWN ON THE PLANS. THIS LINE WILL BE CONNECTED TO THE EXISTING WATER MAIN AND ALL EXISTING SERVICES WILL BE TIED INTO THIS LINE UNTIL THE NEW WATER LINE HAS BEEN INSTALLED AND TESTED.

17. SERVICES WILL NOT BE REPLACED ON LOTS WHICH HAVE NO BUILDINGS. WHEN OWNER CHOOSES TO REDEVELOP, TWSA WILL INSTALL NEW WATER SERVICES.

18. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF PIPE RESTRAINTS FOR ALL NECESSARY LOCATIONS AS SHOWN ON DETAIL SHEET UC-3B. NO NOTATION HAS BEEN MADE ON THE PLANS.

19. CONTRACTOR SHALL BE RESPONSIBLE FOR PLACEMENT OF RPZ OUTSIDE OF PROPOSED SIDEWALK AND EXISTING PARKING LOTS. FIELD ADJUST AS NEEDED.

