

# UTILITY CONSTRUCTION

PROJECT REFERENCE NO. U-4906	SHEET NO. UC-3
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<b>UTILITY CONSTRUCTION</b>	
<b>DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED</b>	
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## 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 THE ONSLOW WATER AND SEWER AUTHORITY (ONWASA) MANUAL OF STANDARDS, SPECIFICATIONS, AND DETAILS, LATEST EDITION (MAY 2016); AND THE CITY OF JACKSONVILLE MANUAL OF SPECIFICATIONS, STANDARDS, AND DESIGN, LATEST EDITION (JULY 2006).

2. THE EXISTING WATER LINE UTILITIES BELONG TO ONSLOW WATER AND SEWER AUTHORITY (ONWASA) AND THE CITY OF JACKSONVILLE.

ONWASA  
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THE EXISTING SEWER LINE UTILITIES BELONG TO ONSLOW WATER AND SEWER AUTHORITY (ONWASA).

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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.

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 OPPROTUNITY 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 ADDITONAL 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 BY THE ENGINEER.

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.

10. CONTRACTOR SHALL NOT OPERATE ANY VALVES ON THE EXISTING UTILITY SYSTEMS. CONTRACTOR SHALL CONTACT THE UTILITY OWNER TO CONDUCT STRATEGIC OPERATION OF VALVES FOR SERVICE INTERRUPTION IN ORDER TO PERFORM SPECIFIC WORK.

## PROJECT SPECIFIC NOTES: A. APPLICABLE TO BOTH UTILITY OWNERS

1. ALL UTILITY CONSTRUCTION SHALL BE SUBJECT TO A FINAL INSPECTION BY THE UTILITY OWNER REPRESENTATIVE TO INSURE CONFORMANCE TO THE UTILITY OWNER'S STANDARDS PRIOR TO FINAL ACCEPTANCE BY THE DEPARTMENT.

2. CONTRACTOR'S ATTENTION IS DIRECTED TO SECTIONS 102, 107, AND 1550 OF THE STANDARD SPECIFICATIONS CONCERNING TRENCHLESS INSTALLATION. PRIOR TO COMMENCING ANY WORK ON ANY TRENCHLESS INSTALLATION ON THIS PROJECT, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A DESIGN FOR THE TRENCHLESS INSTALLATION THAT IS DESIGNED, CERTIFIED, AND SEALED BY A PROFESSIONAL ENGINEER LICENSED BY THE STATE OF NORTH CAROLINA, AS REQUIRED BY SUBARTICLE 1550-3(B) OF THE STANDARD SPECIFICATIONS. NO DAMAGE IS ALLOWED TO RIVER, STREAM, CREEK, WETLANDS, OR BUFFER ZONES.

3. EXISTING BURIED WATER LINE AND SANITARY FORCE MAIN TO BE ABANDONED AND NOT REMOVED BY THE CONTRACTOR SHALL BE FILLED WITH FLOWABLE FILL AND CAPPED AT EACH END.

4. ALL FITTINGS, 4-INCHES THROUGH 36-INCHES IN DIAMETER, SHALL BE DUCTILE IRON, PRESSURE CLASS 350, WITH END CONNECTIONS AS EITHER RESTRAINED JOINT OR MECHANICAL JOINT. THE USE OF PUSH-ON FITTINGS IS NOT PERMITTED.

5. PROPOSED PIPE TO BE INSTALLED FOR DOWN AND UNDER RELOCATIONS TO AVOID PROPOSED DRAINAGE PIPES SHALL BE DUCTILE IRON PIPE WITH RESTRAINED JOINT CONSTRUCTION. THE DOWN AND UNDER PIPE SEGMENT SHALL BE FULLY ASSEMBLED AS ONE CONTINUOUS SECTION BEFORE LOWERING INTO POSITION, UNLESS OTHERWISE DIRECTED BY THE ENGINEER AND APPROVED BY THE UTILITY OWNER.

6. ALL PROPOSED PIPE TO BE INSTALLED WITHIN STEEL ENCASEMENT PIPES SHALL BE DUCTILE IRON PIPE WITH RESTRAINED JOINT CONSTRUCTION, PRESSURE CLASS 350. AN ALLOWABLE ALTERNATIVE MAY BE THE USE OF FUSIBLE PVC DR-18, DIPS, WITH A PRESSURE RATING OF 235 PSI CONFORMING TO NSF-61, IF APPROVED BY THE UTILITY OWNER.

7. PIPE USED FOR WATER MAIN HDD INSTALLATIONS, 4-INCH THROUGH 16-INCH, SHALL BE FUSIBLE PVC C-900 DR-18 DIPS PIPE.

8. EXISTING PVC PIPE SHALL BE EXCAVATED AND FIELD BENT AS NEEDED TO PROVIDE FOR HORIZONTAL AND / OR VERTICAL TRANSITION AND TIE-IN TO PROPOSED PIPE, AS DIRECTED BY THE ENGINEER.

9. EXISTING WATER LINE OR SEWER FORCE MAIN SHALL BE RESTRAINED ON THE PORTION TO REMAIN BEYOND THE FITTING/VALVE TIE-IN POINT. CONTRACTOR SHALL EXCAVATE THE EXISTING PIPE AND INSTALL THE APPROPRIATE BELL JOINT RESTRAINTS AT EACH PIPE JOINT FOR THE DISTANCE NOTED IN THE TABLE ON THE DETAIL SHEETS IN THIS PLAN SET, AS DIRECTED BY THE ENGINEER.

10. ALL NEW OR RELOCATED WATER METERS SHALL BE INSTALLED AT THE RIGHT-OF-WAY LINE, UNLESS OTHERWISE DIRECTED BY THE RESIDENT ENGINEER.

11. WATER METER BOXES SHALL NOT BE INSTALLED WITHIN PAVEMENT OR SIDEWALKS, UNLESS APPROVED BY THE UTILITY OWNER.

12. EXISTING WATER METERS THAT ARE TO REMAIN SHALL BE RECONNECTED TO THE EXISTING / PROPOSED WATER MAIN WITH NEW WATER SERVICE LINES.

13. CONTRACTOR SHALL BE RESPONSIBLE FOR RECONNECTING THE CUSTOMER SIDE SERVICE LINE TO THE NEW OR RELOCATED WATER METER.

14. EXISTING HYDRANTS AND WATER METERS TO BE REMOVED AND/OR RELOCATED SHALL BE RETURNED TO THE UTILITY OWNER FOR INSPECTION. CONTRACTOR SHALL DELIVER THESE UTILITY ITEMS TO A MUTUALLY AGREED UPON LOCATION. ALL OTHER PARTS, PIPING, AND METER BOXES REMOVED FROM THE SYSTEM SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AND BE PROPERLY DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

15. HYDRANTS AND WATER METERS LABELLED TO BE REMOVED SHALL NOT BE USED AS NEW MATERIALS IN THE PROPOSED CONSTRUCTION UNLESS OTHERWISE APPROVED BY THE UTILITY OWNER.

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