

UTILITY CONSTRUCTION

GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2012 AND THE ONWASA MANUAL FOR STANDARDS, SPECIFICATIONS AND DETAILS. IN THE EVENT OF A CONFLICT, THE MORE RESTRICTIVE REQUIREMENT SHALL GOVERN.

2. THE EXISTING UTILITIES BELONG TO

ONWASA WATER & SEWER AUTHORITY (ONWASA)
CONTACT: CARL H. BAKER, PE
PHONE: 910-937-7521

3. ALL WATER LINES TO BE INSTALLED WITHIN COMPLIANCE OF THE RULES AND REGULATIONS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENTAL AND NATURAL RESOURCES, 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 AND NATURAL RESOURCES, 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 AND UTILITY OWNER. 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 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. THE UTILITY OWNER SHALL BE INCLUDED IN THE SUBMITTAL REVIEW AND ALLOWED 10 CALENDAR DAYS TO REVIEW THE SUBMITTALS FOR APPROVAL. MATERIALS SUPPLIED ON THE PROJECT THAT ARE NOT SPECIFICALLY IDENTIFIED ON THE PLANS OR IN NCDOT STANDARDS SHALL MEET THE STANDARD SPECIFICATIONS OF THE UTILITY OWNER.

10. CONTRACTOR SHALL NOTIFY NC ONE-CALL AT 1-800-632-4949 PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY SUCH THAT ALL EXISTING UTILITIES CAN BE MARKED. FURTHERMORE, THE CONTRACTOR SHALL MAKE EVERY EFFORT TO CONTACT ANY UTILITY OWNERS THAT ARE NOT MEMBERS OF NC ONE-CALL AND HAVE FACILITIES RESIDING WITHIN THE PROJECT LIMITS.

PROJECT SPECIFIC NOTES:

1. ALL WATER LINE SHALL BE DUCTILE IRON RESTRAINED JOINT, PRESSURE CLASS 350.

2. ALL FORCE MAIN SEWER PIPE FOR OPEN TRENCH SHALL BE PVC C900 DR-18 RESTRAINED BELL JOINT.

2A. ALL FORCE MAIN SEWER PIPE INSTALLED WITHIN STEEL ENCASEMENT SHALL BE DUCTILE IRON RESTRAINED JOINT PIPE, SUCH AS TR-FLEX OR APPROVED EQUAL.

3. ALL FITTINGS SHALL BE DUCTILE IRON PRESSURE CLASS 350.

4. ALL FITTINGS (BENDS, TEES, CROSSES, REDUCERS, PLUGS, ETC.) SHALL BE ADEQUATELY RESTRAINED BY THE USE OF RESTRAINING GLANDS AND CAST IN PLACE CONCRETE THRUST RESTRAINTS AS DETAILED ON THESE PLANS AND IN THE SPECIAL PROVISIONS.

5. THE EXISTING 12" WATER LINE AND 4" FORCE MAIN SHALL BE RESTRAINED ON THE PORTION TO REMAIN. THE CONTRACTOR SHALL EXCAVATE THE EXISTING WATER OR FORCE MAIN LINE AND INSTALL THE BELL RESTRAINT CLAMPS AT EVERY BELL JOINT FOR THE DISTANCE NOTED IN THE TABLE ON SHEET UC-3C.

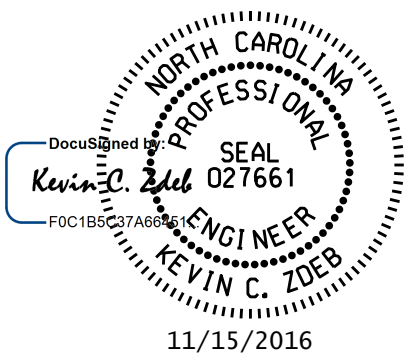

6. EXISTING FORCE MAIN SEWER LINE TO BE ABANDONED SHALL BE CAPPED AND FILLED WITH FLOWABLE FILL. EXISTING WATER LINE SHALL BE REMOVED FOR DOWN & UNDER RELOCATIONS, OTHERWISE CAPPED AND FILLED WITH FLOWABLE FILL.

7. WATER SERVICE LINES TO THE WATER METER SHALL BE ¾" P.E. SDR-9 AS PER DETAIL ON SHEET UC-3B. CONTRACTOR SHALL BE RESPONSIBLE FOR RECONNECTING THE RELOCATED WATER METERS TO THE EXISTING SERVICE LINES ON CUSTOMER PROPERTY AND MINIMIZE SERVICE DISRUPTION DURING THE TIE-IN PROCESS.

8. CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER A MINIMUM OF 7 DAYS IN ADVANCE OF A PLANNED SERVICE INTERRUPTION.

PROJECT QUANTITIES:

Job Name: R-5023B		Date: 11/15/2016	
Item Number	Description	Quantity	
Water			
5326200000-E	12" WATER LINE	178	LF
5558000000-E	12" VALVE	2	EA
5649000000-E	RECONNECT WATER METER	8	EA
5672000000-E	RELOCATE FIRE HYDRANT	2	EA
5804000000-E	ABANDON 12" UTILITY PIPE	153	LF
Sewer			
5835000000-E	8" ENCASEMENT PIPE	42	LF
5871500000-E	TRENCHLESS INSTALLATION OF 8" IN SOIL	21	LF
5871510000-E	TRENCHLESS INSTALLATION OF 8" NOT IN SOIL	21	LF

PROJECT REFERENCE NO. R-5023B	SHEET NO. UC-03
UTILITY DESIGN ENGINEER	
	
	
598 E. Chatham Street, Suite 127 Cary, N. C. 27511	