

UTILITY CONSTRUCTION

GENERAL NOTES:

1. THE PROPOSED UTILITY CONSTRUCTION WILL MEET THE APPLICABLE REQUIREMENTS OF THE NC DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES" DATED JANUARY 2018.

2. ALL WATER AND 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.

3. EXISTING UTILITY OWNER INFORMATION:

TOWN OF MURPHY
PUBLIC WORKS DEPARTMENT
5 WOFFORD STREET
MURPHY, NC 28906

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.

7. CONTRACTOR IS RESPONSIBLE FOR LOCATING EXISTING UTILITIES FOR LOCATION, SIZE, AND TYPE MATERIAL AS NECESSARY FOR THE CONSTRUCTION OF THE PROPOSED UTILITIES AND FOR AVOIDING DAMAGE TO EXISTING FACILITIES.

8. PRIOR TO ORDERING ANY MATERIAL, CONTRACTOR SHALL FIELD LOCATE THE PLANNED TIE-IN LOCATIONS AND CONFIRM ELEVATION.

9. REPAIR ANY DAMAGE INCURRED TO EXISTING FACILITIES TO THE ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE DEPARTMENT OR UTILITY OWNER.

10. 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 PROJECT ENGINEER.

11. CONTRACTOR WILL COORDINATE WITH THE TOWN OF MURPHY FOR SHUTDOWN OF ANY WATER OR SEWER SERVICES. ANY SHUTDOWN MUST BE COORDINATED WITH ADVANCE NOTICE PER GENERAL NOTE 5.

12. 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.

13. ALL UTILITY MATERIALS WILL BE APPROVED PRIOR TO DELIVERY TO THE PROJECT. SEE 1500-7, " SUBMITTALS AND RECORDS" IN SECTION 1500 OF THE STANDARD SPECIFICATIONS.

14. CONTRACTOR TO COORDINATE DRIVEWAY CROSSINGS AS NECESSARY WITH PROPERTY OWNERS. OTHERWISE DRIVEWAY ACCESS SHALL BE MAINTAINED AT ALL TIMES, UNLESS OTHERWISE NOTED.

15. CONTRACTOR AND OWNER TO COORDINATE ELEVATION ADJUSTMENT OF PROPOSED MANHOLE FROM EXISTING TO PROPOSED GRADE AS NECESSARY DURING ROADWAY PROJECT.

2. ALL WATER MAIN PIPING SHALL CONFORM TO ANSI/AWWA C151/A21.51 IN ACCORDANCE WITH NCDOT STANDARD SPECIFICATIONS SECTION 1036, CLASS 350. FITTINGS SHALL CONFORM TO ANSI/AWWA C110/A21.10 WITH A CEMENT MORTAR LINING AND A SEAL COAT IN ACCORDANCE WITH ANSI/AWWA C104/A21.4.

3. PVC GRAVITY SEWER PIPE SHALL CONFORM TO ASTM D3034 WITH MINIMUM SDR 26 IN ACCORDANCE WITH NCDOT STANDARD SPECIFICATIONS SECTION 1034. SEWER SERVICES ARE TO BE REPLACED IN KIND.

4. PVC FORCE MAIN PIPE SHALL CONFORM TO ASTM D2241 OR ANSI/AWWA C900 WITH MINIMUM SDR OF 21 AND MINIMUM PRESSURE RATING OF 200 PSI IN ACCORDANCE WITH NCDOT STANDARD SPECIFICATIONS SECTION 1034, OR AWWA C900 MINIMUM DR 18 AND MINIMUM PRESSURE CLASS OF 235 PSI.

5. ALL PROPOSED FITTINGS (BENDS, PLUGS, ETC.) WILL BE ADEQUATELY RESTRAINED BY THE USE OF RESTRAINED JOINT PIPE CONSTRUCTION AND / OR CAST IN PLACE CONCRETE THRUST RESTRAINS AS DETAILED ON THESE DRAWINGS OR AS DIRECTED BY THE RESIDENT PROJECT REPRESENTATIVE OR PROJECT ENGINEER.

6. MAINTAIN 3-FEET COVER MINIMUM FOR ALL PIPING, UNLESS OTHERWISE SPECIFIED ON THE DRAWINGS.

7. WHEN REQUIRED OR NOTED ON THE DRAWINGS, 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.

8. WATER METERS ARE PROVIDED AND INSTALLED BY THE TOWN OF MURPHY PUBLIC WORKS DEPARTMENT.

9. EXISTING WATER METERS TO BE RELOCATED WILL BE CONNECTED TO THE EXISTING WATER LINE WITH NEW WATER SERVICES LINES. ANY EXTENSIONS OR MODIFICATIONS TO THE EXISTING SERVICE LINES ON THE CUSTOMER SIDE OF THE WATER METER WILL BE INCIDENTAL TO THE RELOCATION OF THE WATER METER.

10. ALL WORK FOR WATER SERVICES WILL BE CONDUCTED WITH LIKE PIPE MATERIALS AS THE EXISTING PIPES. UNLESS THE EXISTING MATERIAL IS FOUND TO BE UNSUITABLE (I.E. GALVANIZED OR LEAD). FOR UNSUITABLE MATERIAL, CONTRACTOR WILL USE COPPER WATER PIPE AND TUBING CONFORMING TO ASTM B88 SOFT ANNEALED TYPE K. ALL JOINT TO USE COMPRESSION TYPE FITTINGS CONFORMING TO ANSI/AWWA C800.

11. ALL PIPE TESTING WILL BE DONE IN THE PRESENCE OF TOWN OF MURPHY PUBLIC WORKS DEPARTMENT REPRESENTATIVE.

12. PIPE TESTING WILL BE PER THE PROJECT SPECIAL PROVISIONS.

13. AFTER PRESSURE TESTING AND PRIOR TO PUTTING PIPE INTO SERVICE, ALL WATER LINES WILL BE DISINFECTED. FOLLOW DISINFECTION, CHLORINATION AND TESTING PROCEDURES PER THE PROJECT SPECIAL PROVISIONS.

14. THE CONTRACTOR IS RESPONSIBLE FOR TAKING WATER SAMPLES AND HAVING THEM TESTED AT AN AWWA APPROVED LABORATORY. NO WATER LINE WILL BE PUT INTO SERVICE UNTIL WATER SAMPLES HAVE PASSED LABORATORY TESTING.

LIST OF STANDARD DRAWINGS

1. 1. STANDARD DETAILS ARE PROVIDED FOR THE PROJECT.
 - 1.1. 840.52 - PRECAST MANHOLE 4', 5' AND 6' DIAMETER
 - 1.2. 840.54 - MANHOLE FRAME AND COVER
 - 1.3. 1515.01 - WATER METER
 - 1.4. 1515.02 - FIRE HYDRANT
 - 1.5. 1520.01 - SEWER CLEAN OUT
 - 1.7. 1525.02 - PRECAST CONCRETE SANITARY SEWER MANHOLE - OUTSIDE DROP
 - 1.8. 1525.06 - PRECAST CONCRETE SANITARY SEWER MANHOLE WITH CAST - IN - PLACE BOTTOM
 - 1.9. 1605.01 - TEMPORARY SILT FENCE
 - 1.10. 1645.01 - TEMPORARY STREAM CROSSING
2. 2. WHERE NO STANDARD DETAIL IS PROVIDED IN DRAWINGS, COORDINATE WITH THE PROJECT ENGINEER.

PROJECT SPECIFIC NOTES:

1. CONTRACTOR'S ATTENTION IS DIRECTED TO THE UTILITY CONSTRUCTION PROJECT SPECIAL PROVISIONS PROVIDED ALONG WITH THIS PLAN SET.

PROJECT REFERENCE NO.	SHEET NO.
R-5861	UC-3
DESIGNED BY: KTC	
DRAWN BY: ATL	
CHECKED BY: GHH	
APPROVED BY: GHH	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE: (919) 707-6690 FAX: (919) 250-4151	

UTILITY CONSTRUCTION
DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED