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 2024.

2. THE EXISTING UTILITIES BELONG TO THE TOWN OF COLUMBIA PUBLIC WORKS DEPARTMENT.

3. THE UTILITY OWNER OWNS THE EXISTING UTILITY FACILITIES AND WILL OWN THE NEW UTILITY FACILITIES AFTER ACCEPTANCE BY NCDOT. NCDOT AND THE TOWN OWNS THE CONSTRUCTION CONTRACT AND HAS ADMINISTRATIVE AUTHORITY. COMMUNICATIONS AND DECISIONS BETWEEN THE CONTRACTOR AND UTILITY OWNER ARE NOT BINDING UPON NCDOT, 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 NCDOT.

4. PROVIDE ACCESS FOR NCDOT, AND THE OWNER'S REPRESENTATIVES TO ALL PHASES OF CONSTRUCTION. NOTIFY NCDOT, 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.

5. 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 OF 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 NCDOT AND TOWN.

6. 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.

7. 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.

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

9. EMERGENCY CONTACT - UTILITY OWNER:
TYRRELL COUNTY,
JEREMY HAISLIP, PUBLIC WORKS DIRECTOR
252-796-1371 (Ext. 0)
EMAIL: jhaislip@tyrrellcounty.net

PROJECT SPECIFIC NOTES:

1. ALL HDPE WATER LINES ARE TO BE 10-INCH HIGH DENSITY POLYETHYLENE PIPE CONFORMING TO AWWA C906. ALL DUCTILE IRON WATER LINES ARE TO BE 8-INCH CONFORMING TO AWWA C151/A21.51. THE DIAMETER AND LOCATION OF ALL EXISTING WATER LINES SHALL BE FIELD VERIFIED BY THE CONTRACTOR.

2. WATER MAINS CROSSING UNDER STORM DRAIN PIPE WILL HAVE 18" MINIMUM VERTICAL CLEARANCE UNLESS SPECIFIED ON THE PLAN/PROFILE DRAWINGS.

3. ALL MATERIALS AND CONSTRUCTION PERTAINING TO WATER LINE CONSTRUCTION WILL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE TOWN AND NCDOT.

4. PRIOR TO CONSTRUCTION CONTRACTOR WILL OBTAIN THE LATEST STANDARDS AND SPECIFICATIONS OF THE TOWN AND NCDOT.

5. PRIOR TO CONSTRUCTION CONTRACTOR TO CONFIRM THE ELEVATION OF EXISTING MAINS BY POTHOLING. INFORM ENGINEER OF ANY REQUIRED REVISIONS.

6. PROVIDE A MINIMUM 36" OF COVER FOR ALL PROPOSED WATER LINES. PROVIDE THRUST RESTRAINT AS SHOWN ON THE PLANS. CONTRACTOR SHALL CONSTRUCT THRUST RESTRAINTS AS SPECIFIED WITH MODIFICATIONS TO MATCH FIELD CONDITIONS.

7. THE CONTRACTOR SHALL INSTALL EROSION AND SEDIMENTAITON CONTROL MEASURES, AS WORK TAKES PLACE, AS DIRECTED AND APPROVED BY THE TOWN.

WATER LINE SEQUENCE OF CONSTRUCTION

FUSE HDPE PIPE AND PRESSURE TEST PRIOR TO INSTALLING IN BORE.
BORE HDPE AND TERMINATE ENDS (WITH A FLANGE) TO NEAR DIP CONNECTION POINTS.
HYDROSTATIC PRESSURE TEST NEW MAIN.
INSTALL PROPOSED RESTRAINED DIP.
CONNECT HDPE TO THE PROPOSED RESTRAINED DIP PIPE.
CONNECT PROPOSED RESTRAINED DIP TO EXISTING PVC MAIN.
FLUSH NEW LINE.
RETURN TO SERVICE.

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PROJECT REFERENCE NO.	SHEET NO.
BP1.R014.1	UC-3
DESIGNED BY: TLV	
DRAWN BY:GMM	
CHECKED BY: TLV	
APPROVED BY:	
REVISED:	
NORTH CAROLINA DEPARTMENT OF TRANSPORTATION	
UTILITIES ENGINEERING SEC. PHONE:(919)707-6690 FAX:(919)250-4151	UTILITY CONSTRUCTION PLANS ONLY

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 057141 7/28/26 TAYLOR L. VALENCIA

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

UTILITY CONSTRUCTION

8. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENTION CONTROL PRACTICES PERTAINING TO THE PROPOSED FORCE MAIN SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF NCDOT AND THE TOWN.

9. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:

a. OPEN TRENCH SHALL BE SUFFICIENT IN ADVANCE OF PIPE LAYING TO EXPOSE ANY OBSTRUCTIONS THAT MIGHT ALTER THE ALIGNMENT OR GRADE BUT NOT MORE THAN THAT WHICH CAN BE BACKFILLED AT THE END OF A WORK DAY, OR 200 FEET, WHICHEVER IS LESS.
b. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
c. EFFLUENT FROM SITE DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.

10. ALL NECESSARY DEWATERING OPERATIONS MUST BE DISCUSSED AND COORDINATED BETWEEN THE ENGINEER/OWNER PRIOR TO CONSTRUCTION.

STANDARD DETAIL DRAWINGS

1. STANDARD DETAILS ARE PROVIDED FOR THE PROJECT.

2. IF NO STANDARD DETAILS ARE PROVIDED IN DRAWINGS OR BY THE TOWN, THEN USE NCDOT STANDARD SPECIFICATIONS, DIVISION 15 STANDARD DETAILS FOR UTILITY CONSTRUCTION.