

- NOTES: 1. CONSTRUCTION SHALL BE IN ACCORDANCE WITH CHARLOTTE WATER STANDARD SPECIFICATIONS AND DETAILS, AND NCDOT SPECIFICATIONS AND STANDARD DRAWINGS.
2. THE CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
3. ALL SHORING SHALL BE IN ACCORDANCE TO OSHA TRENCHING STANDARDS PART 1926, SUBPART P, AS AMENDED TO DATE.
4. ANY NECESSARY LANE CLOSURES SHALL FOLLOW GUIDELINES OUTLINED IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND/OR THE C.D.O.T. WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH) AND THE U-5008 PROJECT TRANSPORTATION MANAGEMENT PLAN AND TRAFFIC CONTROL PLANS.
5. IF THE PROPOSED WATER MAIN IS INSTALLED WITHIN 12" IN ANY DIRECTION (VERTICALLY OR HORIZONTALLY) FROM A GAS MAIN AND/OR UNDERGROUND POWER LINE, THEN THE CONTRACTOR SHALL CALL THE APPROPRIATE UTILITY COMPANY AND INFORM THEM.
6. ALL 6", 8", AND 12" WATERLINE IS TO BE DI RESTRAINED JOINT PIPE, PC 350.
7. ALL 8" AND 12" SANITARY SEWER IS TO BE DI PIPE, PC 350.
8. WATER MAIN TO BE INSTALLED WITH A MINIMUM OF 36" OF COVER.
9. ALL WATER MAIN MATERIAL SUBJECT TO LEAKAGE TESTING SHALL BE RATED TO AT LEAST 200 PSI.
10. ALL SERVICES SHALL BE TRANSFERRED FROM THE EXISTING WATER MAIN TO THE PROPOSED WATER MAIN AFTER THE PROPOSED MAIN HAS BEEN TESTED, CHLORINATED, AND ACTIVATED.
11. MINIMUM HORIZONTAL PIPE SEPARATION: 10' HORIZONTAL SEPARATION OR 18" VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN WATER MAINS OVER SEWER MAINS. WHEN WATER MAINS ARE BELOW SEWER MAINS OR THE ABOVE MINIMUM SEPARATIONS CANNOT BE MAINTAINED, DUCTILE IRON PIPE SHALL BE USED FOR BOTH MAINS TO 10' EITHER SIDE OF CROSSING, AND ALL ALONG THE LENGTH OF MAINS WHERE MINIMUM SEPARATION CANNOT BE MAINTAINED.
12. 12-INCH VERTICAL SEPARATION SHALL BE MAINTAINED BETWEEN PROPOSED WATER MAINS AND EXISTING STORM CONDUITS.
13. PRIOR TO PERFORMING WORK IN THE CITY OF CHARLOTTE, CONTACT THE CLT WATER PROJECT MANAGER, BILL DEAL (704-391-5150) AT LEAST 48 HOURS IN ADVANCE OF WORK.
14. ON -L- LINE STREET (I.E. NCDOT STREET), FIRE HYDRANTS ARE TO BE PLACED AT THE R/W LINE.
15. ON -Y- LINE STREETS (I.E. CITY STREETS) FIRE HYDRANTS ARE TO BE PLACED A MINIMUM OF 2' BEHIND CURB AND GUTTER OR 4' BEHIND A DITCH LINE.
16. ALL DRIVEWAY CUTS SHALL BE BACKFILLED WITH TEMPORARY INCIDENTAL STONE.
17. ALL DRIVEWAYS SHALL BE DRY BORED WITHOUT ENCASEMENT. DRY BORE UNDER PRIVATE SIDEWALK CROSSINGS.
18. ALL PAVEMENT SHALL BE CUT WITH A SAW.
19. ALL PAVEMENT REPAIRS ARE SUBJECT TO APPROVAL BY THE CITY OF CHARLOTTE.
20. CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF "ARTICLE 19-A OVERHEAD HIGH VOLTAGE LINE SAFETY ACT-NC STATE STATUTE 95-229".
21. EROSION CONTROL MEASURES SHALL BE PROVIDED IN ACCORDANCE WITH THE U-5008 PROJECT PLAN.
22. ALL WORK MUST BE PERFORMED WITHOUT DISRUPTING THE OPERATION OF ANY EXISTING SANITARY SEWER OR WATER SERVICE.
23. THIS PROJECT INVOLVES CONSTRUCTION WITH LIVE SANITARY SEWER LINES. MEASURES MUST BE TAKEN BY THE CONTRACTOR TO REROUTE FLOW IN THE SYSTEMS DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PUMPING OR BYPASS FACILITIES AROUND CONSTRUCTION LOCATIONS PRIOR TO STARTING THE WORK. SANITARY SEWAGE CANNOT BE BYPASSED OR PUMPED INTO ANY STREAM, DITCH, OR WATER COURSE. THE CONTRACTOR SHALL SUBMIT A PROPOSED PLAN FOR BYPASSING SANITARY SEWAGE FLOW TO THE ENGINEER BEFORE STARTING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY HANDLING THE FLOWS DURING CONSTRUCTION AND ALL MEASURES TAKEN WILL BE SUBJECT TO REVIEW. AS APPROVED IN ADVANCE BY THE ENGINEER, BYPASS PUMPING MAY NOT BE REQUIRED IF THE EXPECTED FLOWS ARE MINIMAL AND SEWER SERVICE CAN BE PROMPTLY RESTORED WITH OUT CAUSING BACKUPS, OVERFLOWS, OR OTHER SERVICE ISSUES.
24. ALL EXISTING SANITARY SEWER SERVICES ENCOUNTERED ON THE PROJECT SHALL BE CONNECTED TO THE PROPOSED SANITARY SEWER MAINS AND REPLACED TO THE RIGHT-OF-WAY INE UNLESS NOTED OTHERWISE ON THE PLANS OR DIRECTED BY THE ENGINEER. NEW CLEANOUTS SHALL BE INSTALLED AT THE RIGHT-OF-WAY LINE UNLESS OTHERWISE NOTED.
25. CONTRACTOR SHALL SCHEDULE INSPECTION BY THE ENGINEER FOR EACH SECTION OF NEWLY INSTALLED SANITARY SEWER PIPE BEFORE TAKING THE FLOW DIVERSION OUT OF SERVICE AND PLACING THE NEW SECTION IN SERVICE. THE PROPOSED SANITARY SEWER CONSTRUCTION WILL BE LAID, TESTED, AND ACCEPTED FOR SERVICE SECTION BY SECTION, WHICH TYPICALLY WILL BE MANHOLE TO MANHOLE.
26. RECONNECT EXISTING SANITARY SEWER TO NEW MANHOLE WITH MINIMUM 9' OF NEW D.I.P. TO MATCH EXISTING PIPE SIZE. USE RUBBER SLEEVE COUPLING WITH STAINLESS STEEL COMPRESSION BANDS AND RINGS FOR THE CONNECTION.
27. EXISTING SANITARY SEWER MAINS AND EXISTING MANHOLES IN CONFLICT WITH THE PROPOSED SANITARY SEWER AND PROPOSED STORM DRAINAGE INSTALLATIONS SHALL BE COMPLETELY REMOVED.

PROJECT REFERENCE NO.	SHEET NO.
U-5008	UC-4
DESIGNED BY: JWW	6/1/2015
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UTILITY CONSTRUCTION

CLT WATER PROJECT NUMBER: 529-15-033 (WATER)
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