

**CHARLOTTE WATER GENERAL NOTES:**

- 1) NO PUBLIC WATER OR PUBLIC SANITARY SEWER MAIN CONSTRUCTION MAY TAKE PLACE ON THIS PROJECT UNTIL THE UTILITY CONTRACTOR HAS REQUESTED, SCHEDULED, AND ATTENDED A PRECONSTRUCTION CONFERENCE WITH THE CHARLOTTE WATER CONSTRUCTION INSPECTOR ASSIGNED TO THE PROJECT. ANY WORK PERFORMED PRIOR TO THE PRE-CONSTRUCTION CONFERENCE SHALL NOT BE ACCEPTED BY CHARLOTTE WATER AND SHALL BE REMOVED AND REPLACED WITH NEW MATERIALS.
- 2) APPROVAL FOR BACKFLOW PREVENTION REQUIREMENTS IS NOT PART OF THIS REVIEW. BACKFLOW PREVENTION REVIEW ENTAILS PLAN SUBMITTAL VIA MECKLENBURG COUNTY'S CODE ENFORCEMENT PERMITTING PROCESS AT THE TIME OF APPLICATION FOR BUILDING PERMITS. BACKFLOW PROGRAM REQUIREMENTS ARE AVAILABLE AT <https://www.charlottenc.gov/water/DevelopmentBusiness/Design-Manual> AND <https://www.charlottenc.gov/water/DevelopmentBusiness/Design-Manual> PLEASE CONTACT INSPECTIONS AND PLAN REVIEW AT 704-432-5799 FOR MORE INFORMATION.
- 3) ANY REVISION TO THE WATER AND SEWER SERVICE CONFIGURATIONS AND/OR METER LOCATIONS AFTER CONSTRUCTION RELEASE WILL REQUIRE AN RTAP AND/OR RESUBMITTAL TO BACKFLOW FOR REVIEW.
- 4) CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH CHARLOTTE WATER STANDARDS AND SPECIFICATIONS ("DESIGN MANUAL") PER WEBSITE AT <https://www.charlottenc.gov/water/DevelopmentBusiness/Design-Manual>
- 5) ALL CONTRACTORS WORKING ON CHARLOTTE WATER PROJECTS ARE REQUIRED TO HAVE ACCESS AT ALL TIMES TO THE DESIGN MANUAL WHILE ON THE JOB SITE.
- 6) CONTRACTOR IS FULLY RESPONSIBLE FOR CONTACTING ALL APPROPRIATE PARTIES AND ASSURING THAT UTILITIES ARE LOCATED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CALL NC811 AT 1-800-632-4949 OR 811 FOR UTILITY LOCATING SERVICES 3 FULL WORKING DAYS PRIOR TO COMMENCEMENT OF ANY WORK. CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- 7) IF THE PROPOSED WATER AND/OR SANITARY SEWER MAIN IS INSTALLED WITHIN 12" IN ANY DIRECTION (VERTICALLY OR HORIZONTALLY) FROM NATURAL GAS MAINS, THE CONTRACTOR SHALL PROVIDE THE GAS UTILITY OWNER WITH ADEQUATE NOTICE.
- 8) SANITARY SEWER LATERAL LOCATIONS ARE SUBJECT TO RELOCATION DUE TO FIELD CONDITIONS, AS DETERMINED BY THE CHARLOTTE WATER INSPECTOR.
- 9) SANITARY SEWER LATERALS ARE TO BE INSTALLED AT A DEPTH NO GREATER THAN FIVE (5) FEET WHERE PRACTICAL AT THE PROPERTY LINE UNLESS INDICATED ON THE PLANS TO BE INSTALLED AT "MINIMUM SLOPE".
- 10) MINIMUM COVER OF 36" FOR WATER MAINS (AS MEASURED FROM EDGE OF PAVEMENT / BOTTOM OF CURB GUTTER / BOTTOM OF DITCH IF WITHIN 15' OF A ROAD).
- 11) DUCTILE IRON PIPE (RED BRASS FOR 2 INCH PIPE) REQUIRED FOR BOTH WATER & SANITARY SEWER LINES IF THE FOLLOWING CLEARANCES ARE NOT MET:
  - WATER LINE CROSSING UNDER SEWER LINE (FOR ANY CLEARANCE).
  - 18" VERTICAL FOR WATER LINE INSTALLED ABOVE SEWER LINE.
  - 10' HORIZONTAL SEPARATION FOR WATER LINE PARALLEL TO SEWER LINE (OR 18" VERTICAL SEPARATION IN SEPARATE OR BENCHED DITCHES).
  - FOR WATER LINES 12" CLEARANCE WITH STORM DRAINS, GAS MAINS, TELEPHONE DUCTS, AND UNDERGROUND CABLES.
- 12) RECORDED PLATS ARE REQUIRED FOR ACTIVATION OF WATER MAINS, EASEMENTS ARE NOT ACCEPTABLE.

- 13) ALL WATER MAINS AND SERVICES SHALL BE INSTALLED WITH SOLID COPPER 12-GAUGE TRACER WIRE, 30 MILS BLUE HDPE INSULATION. CONDUCTIVITY TEST REQUIRED DURING FINAL INSPECTION. CONTRACTOR SHALL PROVIDE ALL TEST EQUIPMENT.
- 14) ALL SEWER MAINS AND SERVICES SHALL BE INSTALLED WITH SOLID COPPER 12-GAUGE TRACER WIRE, 30 MILS GREEN HDPE INSULATION. CONDUCTIVITY TEST REQUIRED DURING FINAL INSPECTION. CONTRACTOR SHALL PROVIDE ALL TEST EQUIPMENT.
- 15) COMPLETE TRENCH BACKFILL SHALL BE IN PLACE 30 CALENDAR DAYS PRIOR TO SCHEDULING PVC PIPE MANDREL TESTING OR 10 CALENDAR DAYS PRIOR TO SCHEDULING DUCTILE IRON PIPE MANDREL TESTING.
- 16) CURB AND GUTTER SHALL BE CONSTRUCTED PRIOR TO WATER MAIN INSTALLATION.
- 17) WATER MAIN EXTENSIONS WITHOUT SERVICES SHALL INCLUDE AIR RELEASE AT ALL HIGH POINTS IN WATER MAINS OR EVERY 1000 LF.
- 18) EXISTING MANHOLES MAY HAVE TO BE REPAIRED OR REPLACED, DEPENDING ON THE CONDITION, AS DETERMINED BY THE CHARLOTTE WATER INSPECTOR.
- 19) ALL VALVE ASSEMBLIES SHALL NOT BE INSTALLED IN PROPOSED DRIVEWAYS AND SHALL BE COMPLETELY OUTSIDE OF ADA RAMPS.
- 20) ALL PROPOSED WATER METERS AND BLOW OFFS SHALL NOT BE INSTALLED IN PROPOSED DRIVEWAYS OR ADA RAMPS.
- 21) FIRE HYDRANTS SHALL BE COMPLETELY OUTSIDE SIDEWALKS AND ADA RAMPS.
- 22) NET 15' WATER MAIN EASEMENT REQUIRED UNLESS APPROVED BY CHARLOTTE WATER.
- 23) ANY NEW METERS OR IRRIGATION METERS INSTALLED/RELOCATED AFTER THE BACTERIAL AND PRESSURE TEST SHALL REQUIRE ADDITIONAL BACTERIAL TEST. A CLTWATER INSPECTOR SHALL WITNESS THE TAP UNCOVERED UNDER STATIC CONDITIONS TO VERIFY IF LEAKS ARE PRESENT.
- 24) TAPPING SLEEVES & TEES ARE REQUIRED TO USE CONCRETE THRUST BLOCKING UNLESS NOTED OTHERWISE.
- 25) PRIVATE MH'S SHALL NOT UTILIZE CLT WATER FRAMES & COVERS.
- 26) MINIMUM SPACING BETWEEN SEWER LATERALS AND WATER SERVICES SHALL BE 5 FEET  
MINIMUM SPACING BETWEEN SEWER LATERALS SHALL BE 7 FEET  
MINIMUM SPACING BETWEEN WATER SERVICES SHALL BE 3 FEET