

**General Notes:**

1. THE NOTES ON THIS DRAWING SHALL APPLY TO ALL OF THE DRAWINGS IN THIS CONTRACT.
2. ALL UTILITY WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST "STANDARD SPECIFICATIONS AND CONSTRUCTION DETAIL DRAWINGS" OF CLEVELAND UTILITIES AS WELL AS ANY REQUIREMENTS OF THE STATE OF TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION.
3. THE WATER CONSTRUCTION PROJECT SHALL INVOLVE THE INSTALLATION OF APPROXIMATELY \_\_\_' L.F. OF 8- INCH, \_\_\_' OF 6-INCH AND \_\_\_' L.F. OF 2-INCH, CLASS 200 P.V.C. PIPE AND OTHER APPROPRIATE FITTINGS AND MATERIAL. BIDS ARE TO INCLUDE REPAIRS TO ALL FENCES, YARDS, ROADS, AND DRIVEWAYS.
4. THE EXISTING ELEVATIONS SHOWN ON THE DRAWINGS WERE OBTAINED FROM CITY OF CLEVELAND TOPOGRAPHIC MAPS AND ARE APPROXIMATE.
5. NON-METALLIC DETECTION TAPE SHALL BE INSTALLED 18" ABOVE THE WATERLINE, ALONG WITH NUMBER 12 OR 14 GAUGE CAP WIRE TAPED TO THE WATERLINE AS SHOWN IN CLEVELAND UTILITIES DETAIL DRAWING NUMBER 200-30.
6. ALL WATERLINE P.V.C. PIPE SHALL BE SDR21 WITH 200 P.S.I. PRESSURE RATING IN ACCORDANCE WITH A.S.T.M. D-2241. THE PIPE MUST BEAR THE NATIONAL SANITATION FOUNDATION TESTING LABORATORIES, INC. SEAL OF APPROVAL FOR POTABLE WATER OR AN APPROVED EQUAL. ALL DUCTILE IRON WATERLINE PIPE SHALL BE CLASS 50 WITH CEMENT MORTAR LINING.
7. LUBRICANTS SHALL BE NON-TOXIC AND SHALL NOT PROMOTE BIOLOGICAL GROWTH. SOLVENT-CEMENTED JOINTS ARE NOT PERMITTED.
8. PROCEDURES FOR DISINFECTING POTABLE WATERLINES SHALL CONFORM TO THE REQUIREMENTS OF A.W.W.A. C651. ALL WATERLINES SHALL BE DISINFECTED, BACTERIOLOGICAL TESTED, AND PRESSURE TESTED ACCORDING TO CLEVELAND UTILITIES' SPECIFICATIONS PRIOR TO LINE ACCEPTANCE AND THE WATERLINE BEING PLACED INTO SERVICE.
9. PRESSURE AND LEAKAGE TESTS SHALL BE PERFORMED IN STRICT ACCORDANCE WITH CURRENT A.W.W.A. STANDARD C600 AND/OR MANUFACTURER'S PROCEDURES.
10. ALL VALVES AND FITTINGS ARE TO CONFORM TO THE LATEST A.W.W.A. STANDARDS.
11. THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE UTILITY COMPANY FOR CONNECTION TO THE EXISTING UTILITY LINES. THE CONTRACTOR SHALL ADJUST THE LOCATION OF THE PROPOSED WATERLINE TO AVOID CONFLICTS WITH OTHER UTILITIES.
12. THE CONTRACTOR SHALL CALL "TENNESSEE ONE – CALL" AT LEAST TEN BUSINESS DAYS PRIOR TO THE START OF ANY CONSTRUCTION ON THE SITE ( 1-800-351-1111).
13. THE EXISTING UTILITY FACILITIES, EASEMENTS, AND THEIR LOCATION ARE TAKEN FROM READILY AVAILABLE INFORMATION. THE ACTUAL LOCATIONS OF THE UTILITY FACILITIES AND EASEMENTS MAY VARY SOMEWHAT FROM THE LOCATION SHOWN AND THERE MAY BE UTILITY FACILITIES EXISTING THAT ARE NOT SHOWN OR INDICATED ON THE DRAWINGS. THE SITE UTILITY CONTRACTOR SHALL CONTACT ALL AGENCIES WITH UTILITY FACILITIES IN THE VICINITY OF THE WORK AND SHALL LOCATE ALL UNDERGROUND FACILITIES BEFORE BEGINNING CONSTRUCTION.
14. THE CONTRACTOR SHALL PROVIDE FOR ANY NECESSARY BONDS AS REQUIRED BY GOVERNING AGENCIES.
15. WHERE THE PROPOSED WATER EXTENDS UNDER ANY CITY OF CLEVELAND PAVED STREET, THE TRENCH MUST BE BACKFILLED WITH STANDARD FLOWABLE FILL AS SHOWN ON "CONSTRUCTION DETAIL DRAWINGS" 200-35.
16. INSTALL PIPE JOINT RESTRAINTS FOR BELL AND SPIGOT JOINTS ONE FULL PIPE JOINT (20 FT.) FROM THE END OF THE WATERLINE AS SHOWN ON "CONSTRUCTION DETAIL DRAWING" 200-115.
17. A RESTRAINER SHALL BE PLACED ON THE PIPE SIDE OF THE FLUSH/POST HYDRANT AND VALVE. THE RESTRAINER TIES THE PIPE AND FITTING TOGETHER.
18. THE INITIAL PRESSURES AND FLOWS WERE OBTAINED FROM CLEVELAND UTILITIES.
19. UNNECESSARY DESTRUCTION OF TREES ALONG THE WATERLINE RIGHT-OF-WAY WILL NOT BE PERMITTED. ALL REASONABLE EFFORTS WILL BE MADE BY THE CONTRACTOR TO PROTECT AND SAFEGUARD TREES.
20. WHERE WATERLINES CROSS IMPROVED, GRASSED, OR LAWN AREAS, ALL SOD, SHRUBS, FLOWERS, ETC... SHALL BE REPLACED IN THE ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

21. THE CONTRACTOR SHALL PROVIDE ANY REQUIRED TRAFFIC CONTROL DURING CONSTRUCTION.
22. ALL EXCAVATING IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED.
23. SOME OF THE OFF-SITE PROPERTY LINE INFORMATION WAS OBTAINED FROM BRADLEY COUNTY TAX MAPS AND IS APPROXIMATE.
24. THERE SHALL BE NO OPEN BURNING OF CONSTRUCTION MATERIALS OR DEBRIS WITHOUT FIRST OBTAINING A PERMIT FROM THE TENNESSEE DEPARTMENT OF AIR POLLUTION CONTROL. IF A CONTRACTOR DESIRES TO PERFORM OPEN BURNING, HE/SHE WILL BE RESPONSIBLE FOR OBTAINING ANY PERMITS AND FOR VIOLATION OF AIR POLLUTION LAWS. TO OBTAIN A PERMIT, CALL 478-0337 OR ANY FIRE HALL.
25. SILT FENCE AND/OR HAY BALES SHALL BE PLACED AT LOCATIONS DIRECTED BY CLEVELAND UTILITIES TO PROVIDE FOR EROSION CONTROL.
26. ALL WATERLINE WORK MUST BE COMPLETED BY A LICENSED CONTRACTOR IN THE STATE OF TENNESSEE. THE CONTRACTOR MUST BE APPROVED BY CLEVELAND UTILITIES PRIOR TO THE START OF UTILITY CONSTRUCTION.
27. ALL FITTINGS AND PIPES UNDERNEATH THE EXISTING OR THE PROPOSED ROADWAYS SHALL BE DUCTILE IRON.
28. ALL WATERLINES ARE TO BE INSTALLED WITHIN THE EXISTING RIGHT-OF-WAY UNLESS APPROVED PRIOR TO CONSTRUCTION BY CLEVELAND UTILITIES. INSTALL THE PROPOSED WATERLINE WITHIN FIVE FEET OF THE BACK OF THE RIGHT-OF WAY WHERE POSSIBLE
29. THE COSTS FOR STREAM CROSSINGS SHALL BE INCLUDED IN THE UNIT PRICE BID. NO SEPARATE PAYMENT SHALL BE ALLOWED.
30. WATERLINE SHALL NOT BE PLACED UNDER THE EXISTING PAVED ROADWAY OR ITS SHOULDER UNLESS APPROVED PRIOR TO CONSTRUCTION BY CLEVELAND UTILITIES.
31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL ASPHALT, PAVED ROAD/SHOULDER IN GOOD CONDITION. METAL STABILIZER PADS AS WELL AS METAL TRACKS SHALL NOT COME IN CONTACT WITH ASPHALT PAVED SURFACES. A PROTECTIVE COVERING SHALL BE REMOVED TO AID IN DUST CONTROL.
32. ALL FIRE HYDRANTS AND POST HYDRANTS SHOULD BE PLUMBED WITH BREAK-AWAYS AT PROPOSED GROUND LEVEL (I.E. FIRE HYDRANTS SHOULD NOT LEAN TO ONE SIDE AND NOT STAND TOO HIGH OR LOW). ALL GATE VALVE BOXES SHOULD BE LEVEL WITH FINAL ELEVATIONS.
33. THE CONTRACTOR IS TO NOTIFY CLEVELAND UTILITIES BEFORE BEGINNING ANY CONSTRUCTION IN ORDER TO COORDINATE THE LOCATION OF THE PROPOSED WATERLINE AND ATTAIN A COUNTY RIGHT OF WAY PERMIT OR CITY OF CLEVELAND STREET CUT PERMIT.
34. OPERATION OF EXISTING VALVES:
  - (1) IN NON-EMERGENCY SITUATIONS, THE WATER SHOULD NOT BE TURNED OFF WITHOUT FIRST NOTIFYING THE CUSTOMERS AFFECTED. THIS MAY REQUIRE NEWSPAPER AND RADIO ANNOUNCEMENTS OR PERSONAL CONTACT, PREFERABLY A DAY OR MORE IN ADVANCE.
  - (2) WHEN WATER IS PLANNED TO BE OFF, IT SHOULD BE TURNED OFF IN THE PRESENCE OF WATER DIVISION PERSONNEL, AND THEN ONLY AFTER INSURING THAT THE CONTRACTOR IS ADEQUATELY PREPARED TO EXPEDITE AND COMPLETE THE WORK, AND NOTICE HAS BEEN GIVEN.
  - (3) THE CONTRACTOR'S PERSONNEL SHOULD NEVER HANDLE CUSTOMER MATTERS, BUT SHOULD OBTAIN A WATER DIVISION PERSON TO RESPOND TO THE CUSTOMER.
35. ALL DUCTILE IRON FITTINGS AND VALVES ARE TO BE CONNECTED WITH ANCHOR COUPLINGS UNLESS SPECIFICALLY NOTED OTHERWISE. ALL DUCTILE IRON PIPE IN ROADWAY SHALL HAVE FIELD LOCK GASKETS. ALL PIPES SHALL BE ATTACHED TO FITTINGS OR VALVES WITH MEGALUG GLANDS OR OTHER APPROVED RESTRAINT TYPE FITTINGS.
36. ROADWAY PAVEMENT LOCATIONS WERE ASSUMED TO BE IN THE MIDDLE OF THE EXISTING RIGHT-OF-WAYS AND WERE NOT FIELD LOCATED. REVISIONS IN WATERLINE LOCATIONS MAY BE NECESSARY DUE TO THE ACTUAL LOCATION OF THE PAVEMENT.
37. NO WORK SHALL BE DONE ON PRIVATE PROPERTY UNTIL A UTILITY EASEMENT HAS BEEN OBTAINED AND RECORDED.

38. EXISTING WATER SERVICE LINES ARE TO BE TIED INTO THE PROPOSED WATERLINE WITH THE LEAST AMOUNT OF DISTURBANCE POSSIBLE.
39. THE LOCATION OF THE EXISTING EDGE OF PAVEMENT AND OTHER UTILITIES SHOWN ARE APPROXIMATELY ONLY AND HAVE NOT BEEN SURVEYED OR LOCATED IN RELATIONSHIP TO THE ACTUAL PROPERTY LINES.
40. ANY WATER METERS SET AT OR ABOVE ELEVATION 925 MAY NOT DELIVER SUFFICIENT PRESSURE TO SATISFY THE PROPERTY OWNERS' REQUIREMENTS. IT SHALL BE THE PROPERTY OWNERS' RESPONSIBILITY TO INSTALL A BOOSTER PUMP ON THEIR SERVICE LINE IF THEY REQUIRE ADDITIONAL WATER PRESSURE ABOVE THAT PROVIDED BY CLEVELAND UTILITIES.
41. ALL ELEVATIONS SHOWN ON THIS PROJECT ARE BELOW THE 925-FOOT ELEVATION.
42. INSTALL KICKERS AS REQUIRED ENSURING THAT THE PIPE AND FITTINGS DO NOT BLOW LOOSE.
43. ALL 5-1/4" FIRE HYDRANTS SHALL BE ORDERED FROM THE FACTORY IN A PRE-PAINTED ORANGE COLOR.
44. VALVE KEY EXTENSIONS ARE TO BE PROVIDED AS REQUIRED. COST IS TO BE INCLUDED IN THE PRICE FOR VALVES (SEE DETAIL 200-435).
45. BACKFILL ALL VALVES, FIRE HYDRANTS, BLOW-OFF ASSEMBLIES, AND OTHER APPURTENANCES THAT ARE PERSONNEL OPERATED WITH 1" DIAMETER CRUSHED STONE; TOP SIX (6) INCHES SHALL BE CRUSHER RUN. SLOPE STONE SURFACE TO DRAIN POSITIVELY AWAY FROM CONSTRUCTION AREA.
46. ALL ROADWAY BORES SHALL BE COMPLETED BEFORE OTHER PIPELINE WORK IS FINALIZED IN THE VICINITY OF THE BORE.
47. IN AREAS SUBJECT TO CORROSION/WASH OUT, PROVIDE MINIMUM 6" RIP RAP WITH FILTER FABRIC (LARGE STONE REQUIRED FOR CREEK CROSSING AND AREAS SUBJECT TO STREAM FLOW).
48. FOR LMI SERVICES SET METER AND EXTEND SERVICE LINE TO POINT BETWEEN WELL AND CUSTOMER. CUT IN NEW SERVICE AND CUT AND PLUG WELL LINE.
49. FOR NON LMI SERVICE, SET METER AND EXTEND SERVICE 100 FT. MAXIMUM; TEMPORARILY PLUG.
50. FOR MULTIPLE CUSTOMERS ON ONE LOT, INSTALL 1-INCH SERVICE UNDER ROAD, INSTALL Y-BRANCH AND CONTINUE 3/4" SERVICE LINE.
51. IT IS THE POLICY OF CLEVELAND UTILITIES TO ENSURE COMPLIANCE WITH TITLE VI OF THE CIVIL RIGHTS ACT OF 1964; 49 CFR, PART 21; RELATED STATUTES AND REGULATIONS TO THAT END THAT NO PERSON SHALL BE EXCLUDED FROM PARTICIPATION IN OR BE DENIED BENEFITS OF, OR BE SUBJECTED TO DISCRIMINATION UNDER ANY PROGRAM OR ACTIVITY RECEIVING FEDERAL FINANCIAL ASSISTANCE OR ANY OTHER FUNDING SOURCE ON THE GROUNDS OF RACE, COLOR, SEX, NATIONAL ORIGIN, OR ANCESTRY. BY VIRTUE OF SUBMITTING A RESPONSE TO THIS SOLICITATION, BIDDERS AGREE TO COMPLY WITH THE SAME NON-DISCRIMINATION POLICY.