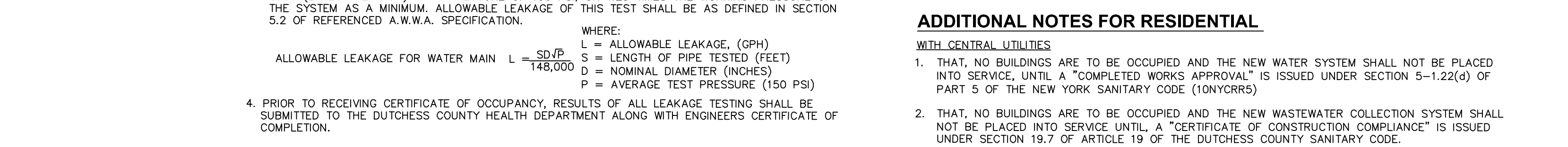
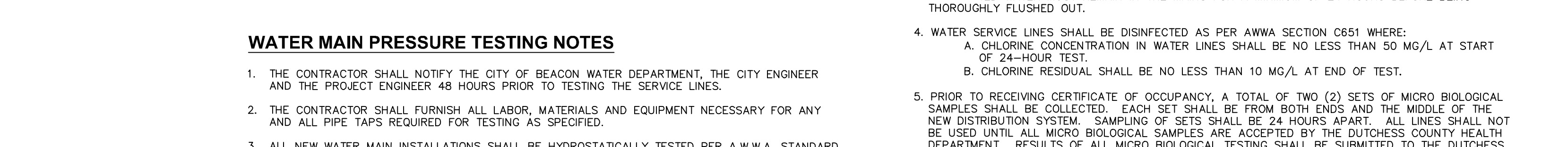
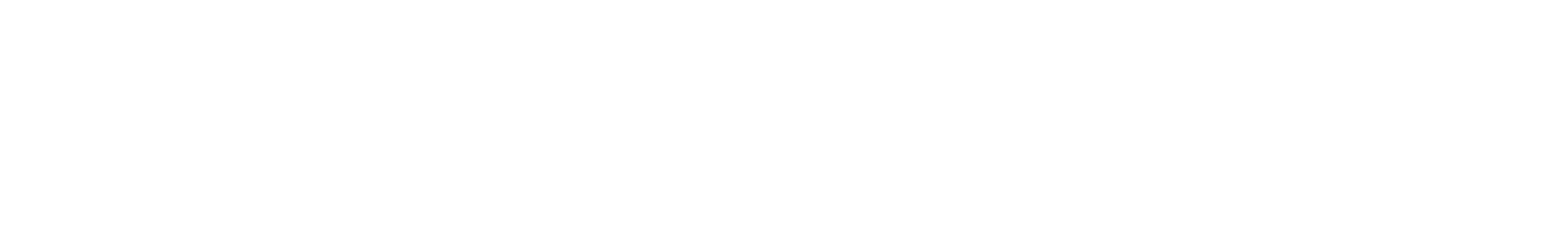
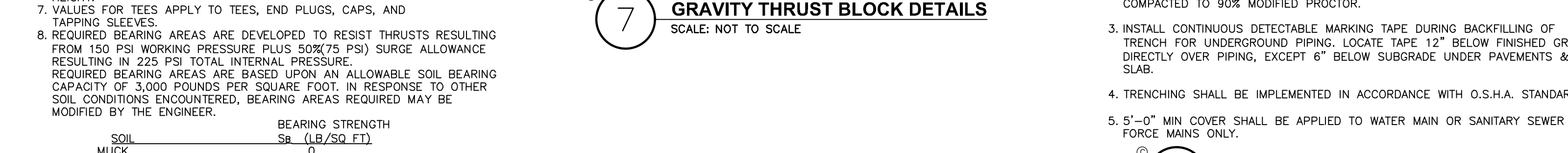
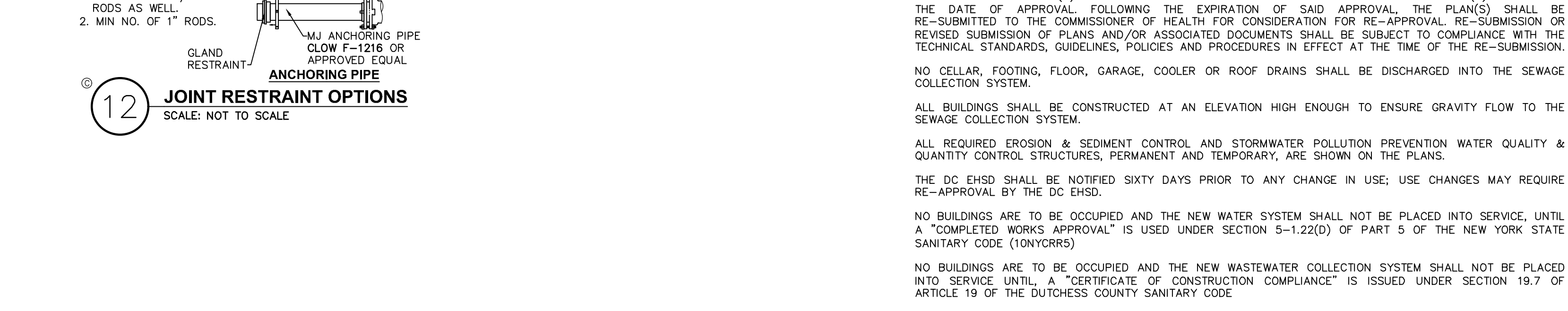
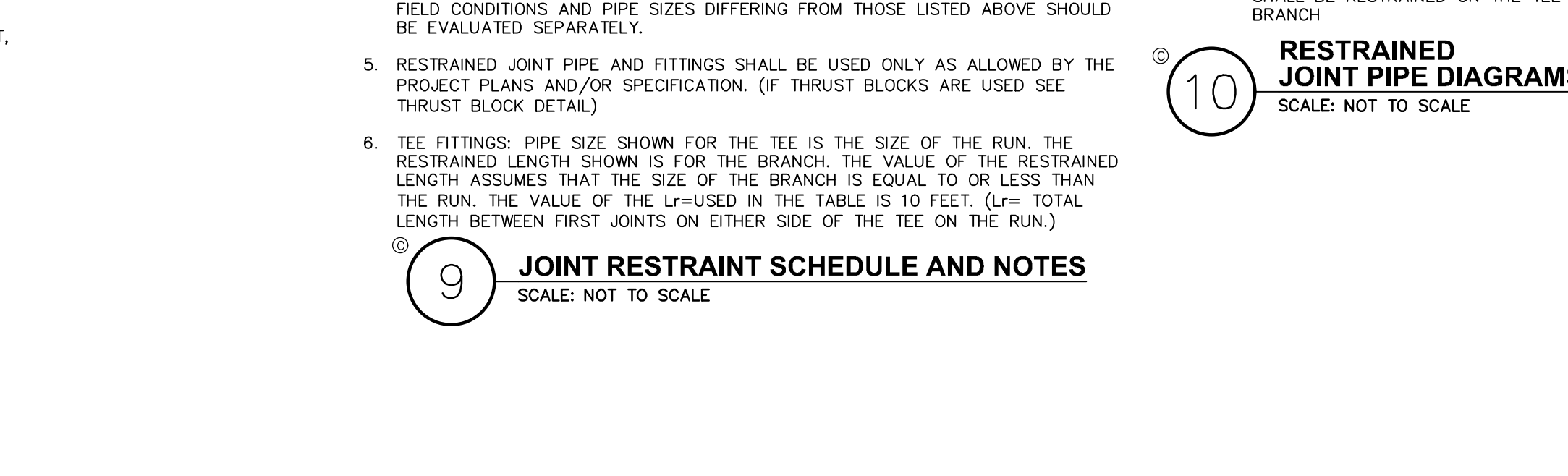
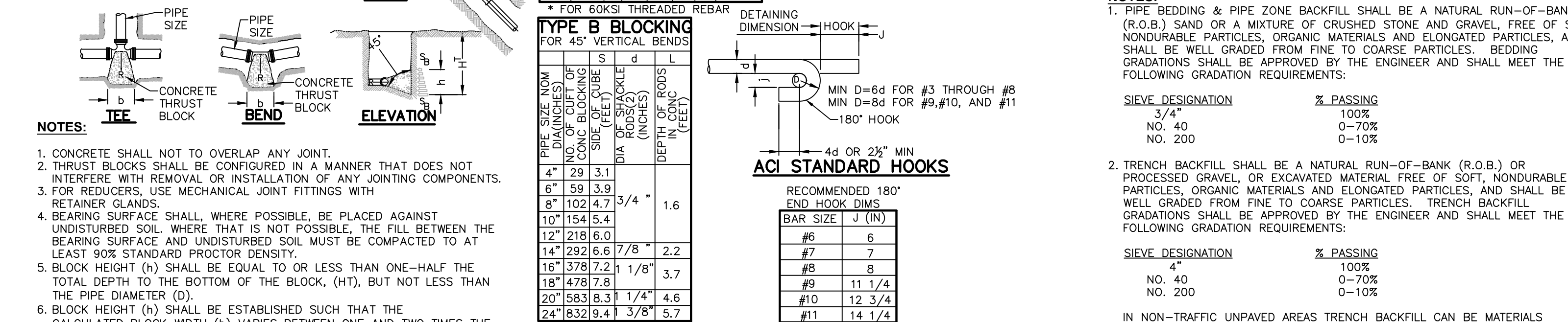
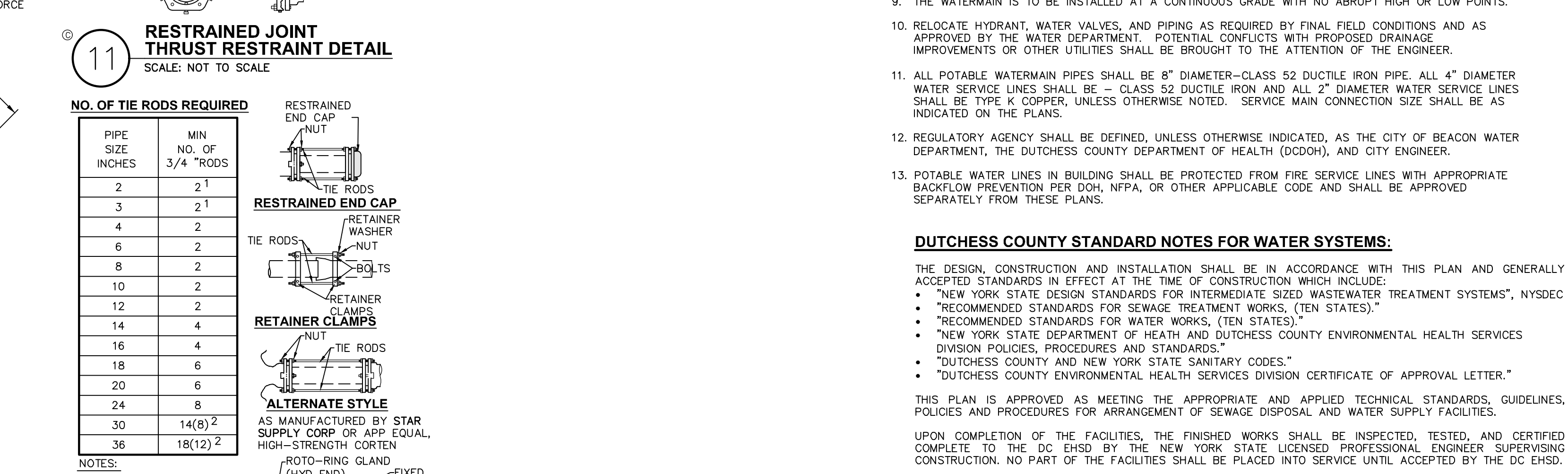
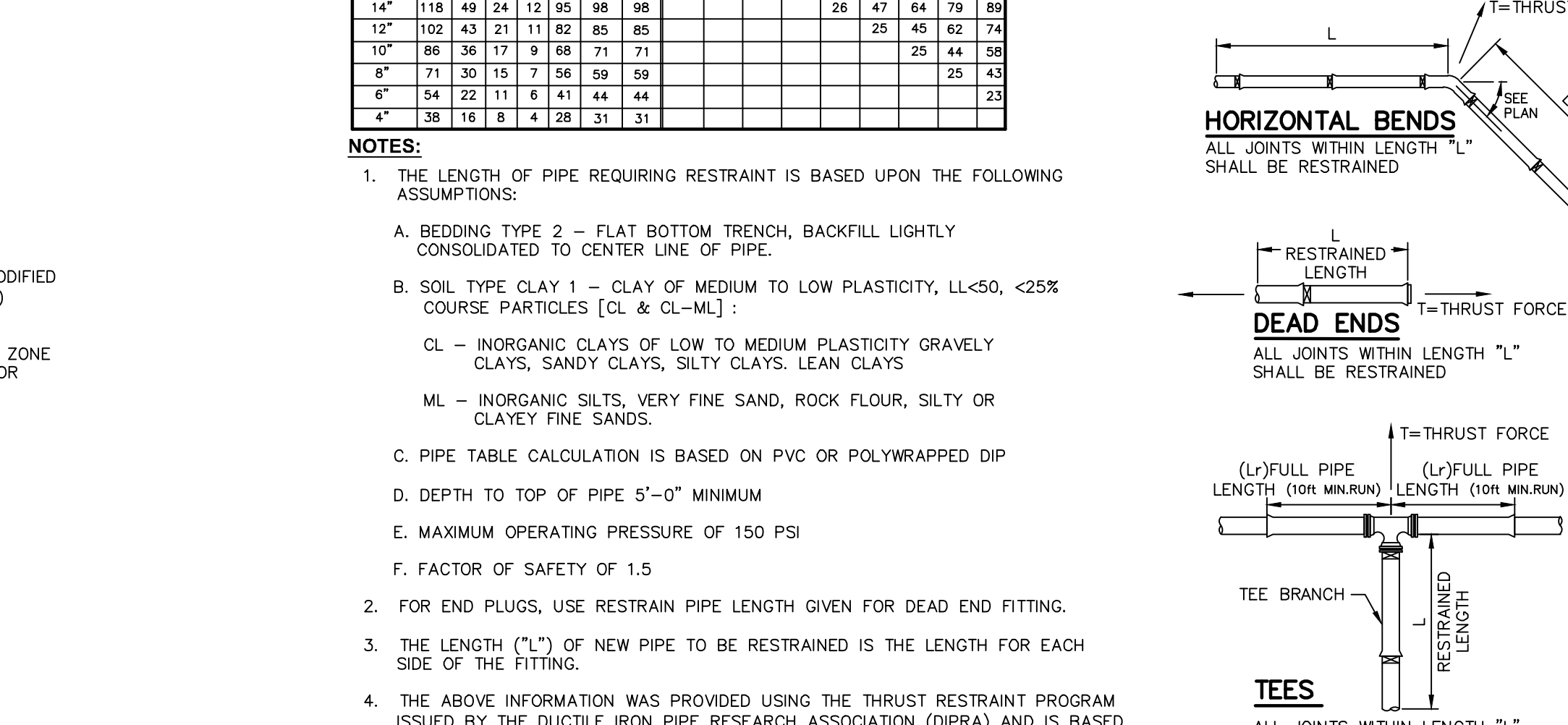
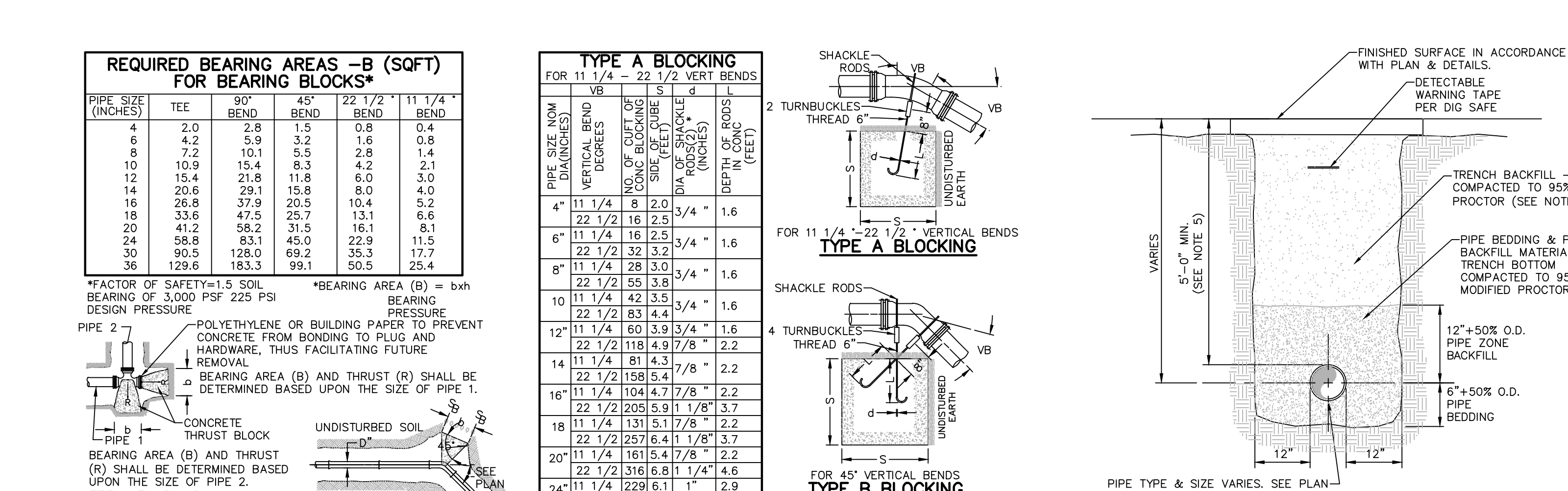


- NOTES**
1. WATER METER PIT AND ASSEMBLY SHALL BE SUBJECT TO REVIEW AND FINAL APPROVAL BY THE CITY OF BEACON WATER DEPARTMENT.
 2. WATER METER SHALL BE PROVIDED WITH A RADIO READ SYSTEM WITH BRONZE WATER-TIGHT ENCLOSURE AND SHALL BE COMPATIBLE WITH EXISTING CITY RADIO READ SYSTEM. WATER PROOF REGISTERS SHALL BE PROVIDED. LOCATION SHALL BE APPROVED BY THE CITY OF BEACON WATER DEPARTMENT PRIOR TO CONSTRUCTION.
 3. AN ALUMINUM WARNING PLATE SHALL BE RIVETED OR OTHERWISE PERMANENTLY ATTACHED TO THE MANHOLE COVER. THE PLATE SHALL BE A MINIMUM OF 12" X 12" AND SHALL BE ENGRAVED WITH THE FOLLOWING LANGUAGE: "WARNING: CONFIDENT SPACE - ENTRY PROHIBITED WITHOUT AUTHORIZATION - CALL OWNER FOR APPROVAL TO ACCESS"
 4. PREPARED SURFACE (I.E., BOTTOM) OF EXCAVATION FOR PLACEMENT OF WATER METER PIT SHALL CONSIST OF A MINIMUM 12" DEPTH OF 3/4" CRUSHED STONE, LEVELED AND LAID OVER STABLE NATIVE SOIL.
 5. WHEN INSTALLING TURBO METERS WITH A STRAINER, A MINIMUM OF FIVE (5) PIPE DIAMETERS OF STRAIGHT RUN PIPE OR EQUIVALENT FULL OPEN COMPONENTS IS REQUIRED UPSTREAM OF THE METER INLET FLANGE. A MINIMUM OF THREE (3) PIPE DIAMETERS OF STRAIGHT PIPE OR EQUIVALENT IS REQUIRED DOWN STREAM OF THE METER - UNLESS SPECIFIED OTHERWISE.
 6. DO NOT INSTALL ELBOWS, BENDS, NONCONCENTRIC REDUCERS, CHECK VALVES, BACK FLOW PREVENTORS AND/OR PRESSURE REDUCING DEVICES WITHIN TEN (10) PIPE DIAMETERS UPSTREAM OR FIVE (5) PIPE DIAMETERS DOWNSTREAM OF THE METER.
 7. VENTILATION SHALL CONFORM TO EXISTING LOCAL AND/OR STATE CODES AND AS PER SECTION 612.5 OF "RECOMMENDED STANDARDS FOR WATER WORKS - 2013" (TEN STATES STANDARDS).
 8. PRESSURE REDUCING VALVE SHALL BE A MODEL 40WR, 8" BY ROSS VALVE OR EQUAL. OUTLET PRESSURE OF THE PRESSURE REDUCING VALVE SHALL BE SET TO 70 PSIG.

SCHEDULE OF JOINT RESTRAINT (PVC OR POLYWRAPPED DIP) (LENGTH OF PIPE EACH SIDE OF FITTING TO BE RESTRAINED IN FEET "L")

PIPE SIZE (DN/IN)	40'	24"	18"	12"	8"	6"	4"	3"	2"
30"	24	100	48	24	208	208	72	130	145
24"	196	80	36	20	163	168	72	104	123
18"	149	62	28	15	123	125	58	81	88
12"	104	56	24	14	109	112	52	68	67
8"	71	38	24	12	79	88	38	51	59
6"	51	28	11	8	62	65	28	43	42
4"	38	18	7	5	46	48	18	28	28
3"	28	12	4	3	31	31	12	18	18

- POTABLE WATER NOTES**
1. THE CONTRACTOR SHALL CONTACT THE CITY OF BEACON WATER DEPARTMENT 48 HOURS BEFORE STARTING WORK AS WELL AS 48 HOURS PRIOR TO CONNECTIONS TO THE CITY WATER SYSTEM.
 2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD EXISTING WATER CONNECTION AND ALL PROPOSED UTILITY CROSSINGS AND IF NECESSARY EXCAVATE TEST PITS TO DETERMINE DEPTH AND CONDITION OF EXISTING UTILITIES.
 3. THE CONTRACTOR SHALL EXPOSE THE EXISTING WATER MAIN AT THE CONNECTION POINT FOR WATER DEPARTMENT INSPECTION. THE CONTRACTOR SHALL UTILIZE A RESTRAINED JOINT METHOD AS APPROVED BY THE WATER DEPARTMENT.
 4. ALL WATER LINES SHALL BE DUCTILE IRON PIPE, CLASS 52 WITH 3" STITCH PUNCH ON GASKETED JOINT BY U.S. PIPE OR EQUAL, UNLESS OTHERWISE SPECIFIED BY THE WATER DEPARTMENT. RESTRAINED JOINTS SHALL BE OF "MECHANICAL" CONNECTIONS, LOCK-JOINT PIPING OR AS ALTERNATIVELY SPECIFIED BY THE WATER DEPARTMENT AND ACCORDING TO THE RESTRAINT SCHEDULE HEREIN. ALL WATER PIPING CONSTRUCTION SHALL BE TO THE SPECIFICATIONS OF THE WATER DEPARTMENT.
 5. THE WATER LINE MAY BE FLEED WITHIN PIPE SPECIFICATIONS OR LAID DEEPER IN AREAS WHERE CROSSINGS WITH THE SANITARY LINE OCCUR. TO ACHIEVE THE REQUIRED 1.5 VERTICAL SEPARATION DISTANCE IF THIS DISTANCE CANNOT BE REASONABLY ACHIEVED, THE CONTRACTOR SHALL CUT AND JOINT THE PIPE LINES 10' IN EACH DIRECTION (SEE WATERLINE OFFSET DETAIL FOR FURTHER INFORMATION).
 6. ALL NEW WATER MAIN INSTALLATIONS SHALL BE HYDROSTATICALLY TESTED PER AWWA STANDARD C 900 (LATEST REVISION) AT A PRESSURE OF 150 PSI, OR 1.25 TIMES THE WORKING PRESSURE OF THE SYSTEM AS A MINIMUM, ALLOWABLE LEAKAGE OF THIS TEST SHALL BE AS DEFINED IN SECTION 5.2 OF SAO AWWA SPECIFICATION.
 7. APPROVED AND TESTED WATER MAIN SHALL BE DISINFECTED PER AWWA SECTION 651, AS DIRECTED BY THE WATER DEPARTMENT AND ENGINEER. THE TABLE METHOD FOR DISINFECTION SHALL NOT BE ACCEPTED.
 8. THE FACILITY WILL BE CONSTRUCTED WITH WATER CONSERVING PLUMBING FIXTURES.
 9. THE WATERMAIN IS TO BE INSTALLED AT A CONTINUOUS GRADE WITH NO ABRUPT HIGH OR LOW POINTS.
 10. RELOCATE HYDRANT, WATER VALVES, AND PIPING AS REQUIRED BY FINAL FIELD CONDITIONS AND AS APPROVED BY THE WATER DEPARTMENT. POTENTIAL CONFLICTS WITH PROPOSED DRAINAGE, SEWER, GAS, AND OTHER UTILITIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
 11. ALL POTABLE WATERMAIN PIPES SHALL BE 8" DIAMETER-CLASS 52 DUCTILE IRON PIPE. ALL 4" DIAMETER WATER SERVICE LINES SHALL BE - CLASS 52 DUCTILE IRON PIPE. ALL 2" DIAMETER WATER SERVICE LINES SHALL BE - CLASS 52 DUCTILE IRON PIPE. UNLESS OTHERWISE NOTED, SERVICE CONNECTIONS SHALL BE AS INDICATED ON THE PLANS.
 12. REGULATORY AGENCY SHALL BE DEFINED, UNLESS OTHERWISE INDICATED, AS THE CITY OF BEACON WATER DEPARTMENT, THE DUTCHESS COUNTY DEPARTMENT OF HEALTH (DOH), AND CITY ENGINEER.



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CHAZEN ENGINEERING, LAND SURVEYING

Office Locations:

- Dutchess County Office: 20 Elm Street, Poughkeepsie, New York 12560
- North County Office: 1 North Broadway, Suite 803, White Plains, New York 10601
- South County Office: 2495 2nd Ave S, Suite 1033, Nashville, Tennessee 37212
- Westchester County Office: 1 North Broadway, Suite 803, White Plains, New York 10601
- Chattanooga Tennessee Office: 811 1st St N, Suite 201, Chattanooga, Tennessee 37403

WATER MAIN PRESSURE TESTING NOTES

1. THE CONTRACTOR SHALL NOTIFY THE CITY OF BEACON WATER DEPARTMENT, THE CITY ENGINEER AND THE PROJECT ENGINEER 48 HOURS PRIOR TO TESTING THE SERVICE LINES.
2. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR ANY AND ALL PIPE TAPS REQUIRED FOR TESTING AS SPECIFIED.
3. ALL NEW WATER MAIN INSTALLATIONS SHALL BE HYDROSTATICALLY TESTED PER AWWA STANDARD C900 (LATEST REVISION) AT A PRESSURE OF 150 PSI, OR 1.25 TIMES THE WORKING PRESSURE OF THE SYSTEM AS A MINIMUM, ALLOWABLE LEAKAGE OF THIS TEST SHALL BE AS DEFINED IN SECTION 5.2 OF REFERENCED AWWA SPECIFICATION.

WHERE:
 L = ALLOWABLE LEAKAGE (GPH)
 L = LENGTH OF PIPE TESTED (FEET)
 D = NOMINAL DIAMETER (INCHES)
 P = AVERAGE TEST PRESSURE (150 PSI)

4. PRIOR TO RECEIVING CERTIFICATE OF OCCUPANCY, RESULTS OF ALL LEAKAGE TESTING SHALL BE SUBMITTED TO THE DUTCHESS COUNTY HEALTH DEPARTMENT ALONG WITH ENGINEERS CERTIFICATE OF COMPLETION.

WATER MAIN DISINFECTION NOTES

1. APPROVED AND TESTED WATER MAIN SHALL BE DISINFECTED PER AWWA SECTION 651.
2. THE CONTRACTOR SHALL NOTIFY THE CITY OF BEACON WATER DEPARTMENT AND THE PROJECT ENGINEER 48 HOURS PRIOR TO DISINFECTING THE SERVICE LINES.
3. DISINFECTED WATER MAIN MUST REMAIN IN THE MAINS FOR A MINIMUM OF 24 HOURS BEFORE BEING THOROUGHLY FLUSHED OUT.
4. WATER SERVICE LINES SHALL BE DISINFECTED AS PER AWWA SECTION 653 WHERE:
 A. CHLORINE CONCENTRATION IN WATER LINES SHALL NOT BE LESS THAN 50 MG/L AT START OF 24-HOUR TEST.
 B. CHLORINE RESIDUAL SHALL BE NOT LESS THAN 10 MG/L AT END OF TEST.

5. PRIOR TO RECEIVING CERTIFICATE OF OCCUPANCY, A TOTAL OF TWO (2) SETS OF MICRO BIOLOGICAL SAMPLES SHALL BE COLLECTED. EACH SET SHALL BE FROM BOTH ENDS AND THE MIDDLE OF THE NEW DISTRIBUTION SYSTEM. SAMPLING OF SETS SHALL BE 24 HOURS APART. ALL LINES SHALL NOT BE USED UNTIL ALL MICRO BIOLOGICAL SAMPLES ARE ACCEPTED BY THE DUTCHESS COUNTY HEALTH DEPARTMENT. RESULTS OF ALL MICRO BIOLOGICAL TESTING SHALL BE SUBMITTED TO THE DUTCHESS COUNTY HEALTH DEPARTMENT ALONG WITH ENGINEERS CERTIFICATE OF COMPLETION.

ADDITIONAL NOTES FOR RESIDENTIAL

WITH CENTRAL UTILITIES

1. THAT, NO BUILDINGS ARE TO BE OCCUPIED AND THE NEW WATER SYSTEM SHALL NOT BE PLACED INTO SERVICE UNTIL A "CERTIFICATE OF CONSTRUCTION COMPLIANCE" IS ISSUED UNDER SECTION 5.1-22(d) OF PART 5 OF THE NEW YORK STATE SANITARY CODE (16NYCSR).
2. THAT, NO BUILDINGS ARE TO BE OCCUPIED AND THE NEW WASTEWATER COLLECTION SYSTEM SHALL NOT BE PLACED INTO SERVICE UNTIL A "CERTIFICATE OF CONSTRUCTION COMPLIANCE" IS ISSUED UNDER SECTION 19.7 OF ARTICLE 19 OF THE DUTCHESS COUNTY SANITARY CODE.