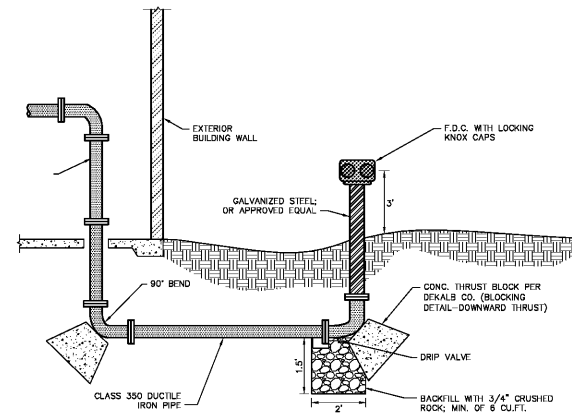
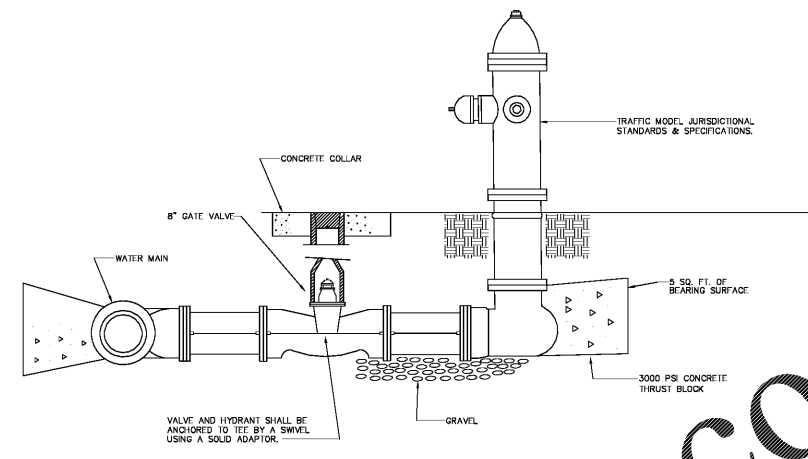


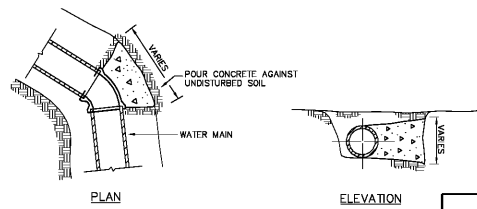
REMOTE FIRE DEPARTMENT CONNECTION DETAIL
(NOT TO SCALE)



REMOTE FIRE DEPARTMENT CONNECTION DETAIL
(NOT TO SCALE)



FIRE HYDRANT DETAIL
(NOT TO SCALE)



NOTE: THRUST BLOCK SHALL NOT EXTEND BEYOND JOINTS OF BEND AND SHALL HAVE PYRAMIDAL SHAPE.

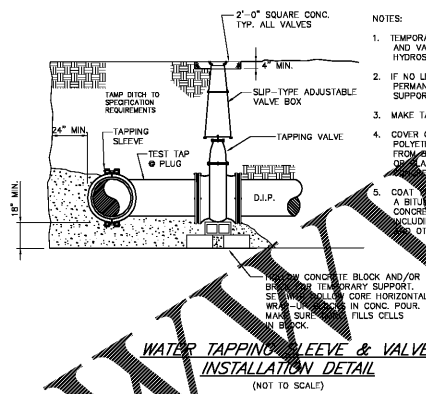
LOCATION	REQUIRED BEARING AREA
90° OR 1/4 BENDS	8 SQ. FT.
Tees, Hydrants, Caps and Plugs	6 SQ. FT.
45° OR 1/8 BENDS	8 SQ. FT.

FITTING SIZE	REQUIRED VOLUME OF THRUST BLOCK (IN CUBIC YARDS) (VERTICAL BENDS)			
	BEND ANGLE	45°	22 1/2°	11 1/4°
4"	1.1	0.4	0.2	0.2
6"	2.8	1.0	0.4	0.4
8"	4.1	1.8	0.8	0.8
10"	6.2	2.4	0.9	0.9
12"	8.8	3.3	1.3	1.3
14"	11.9	4.5	1.8	1.8

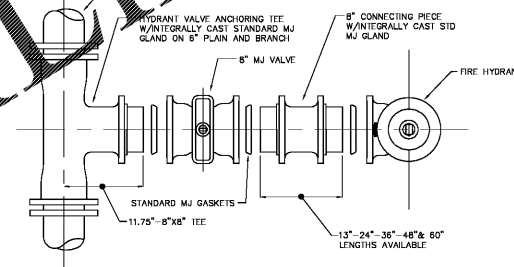
NOTES:

- KEEP CONCRETE CLEAR OF JOINT AND JOINT ACCESSORIES.
- CONCRETE THRUST BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH.
- REQUIRED BEARING AREAS AT FITTINGS SHALL BE AS INDICATED ABOVE, ADJUSTED IF NECESSARY, TO CONFORM TO THE TEST PRESSURE(S) AND ALLOWABLE SOIL BEARING STRESS(S) STATED IN THE SPECIFICATIONS.
- THRUST BLOCK VOLUMES FOR VERTICAL BENDS HAVING UPWARD RESULTANT THRUSTS ARE BASED ON A TEST PRESSURE OF 100 PSIG AND A HEIGHT OF CONCRETE = 30.0 LB/FT.². TO COMPUTE VOLUMES FOR DIFFERENT TEST PRESSURES, USE THE FOLLOWING EQUATION:
VOLUME OF CONCRETE = (TEST PRESSURE/100) X (VALUE FROM THE TABLE)
- BEARING AREAS FOR HORIZONTAL BEND THRUST BLOCKS ARE BASED ON A TEST PRESSURE OF 100 PSIG AND AN ALLOWABLE SOIL BEARING PRESSURE OF 2000 LB/FT.². TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING EQUATION:
REQUIRED BEARING AREA = (TEST PRESSURE/100) X (2000/SOIL BEARING PRESSURE) X (VALUE FROM THE TABLE)
- THRUST BLOCKS FOR VERTICAL BENDS HAVING DOWNWARD RESULTANT THRUSTS SHALL BE THE SAME AS FOR HORIZONTAL BENDS.
- BEARING AREAS, VOLUMES AND SPECIAL BLOCKING DETAILS SHOWN ON THE PLANS OR REQUIRED BY THE GOVERNING AUTHORITY TAKE PRECEDENCE OVER THIS STANDARD.
- BEARING AREA OF THRUST BLOCK SHALL NOT BE LESS THAN 5 SF.

THRUST BLOCK DETAIL
(NOT TO SCALE)

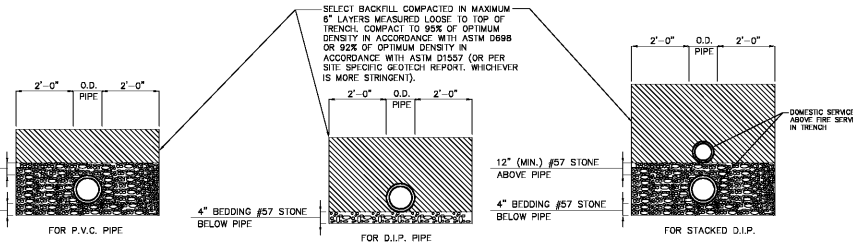


WATER TAPPING SLEEVE & VALVE INSTALLATION DETAIL
(NOT TO SCALE)

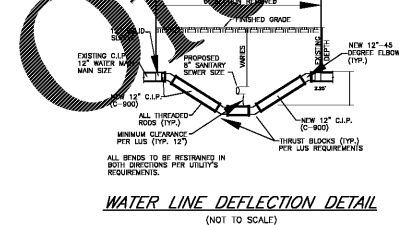


FIRE HYDRANT INSTALLATION DETAIL
(NOT TO SCALE)

Order Plans @ WWW.DIline.com



UTILITY SERVICE TRENCHING & BACKFILLING
(NOT TO SCALE)



WATER LINE DEFLECTION DETAIL
(NOT TO SCALE)

UTILITY DETAILS

Date 03/06/2020

Project Number 19117

C6.1