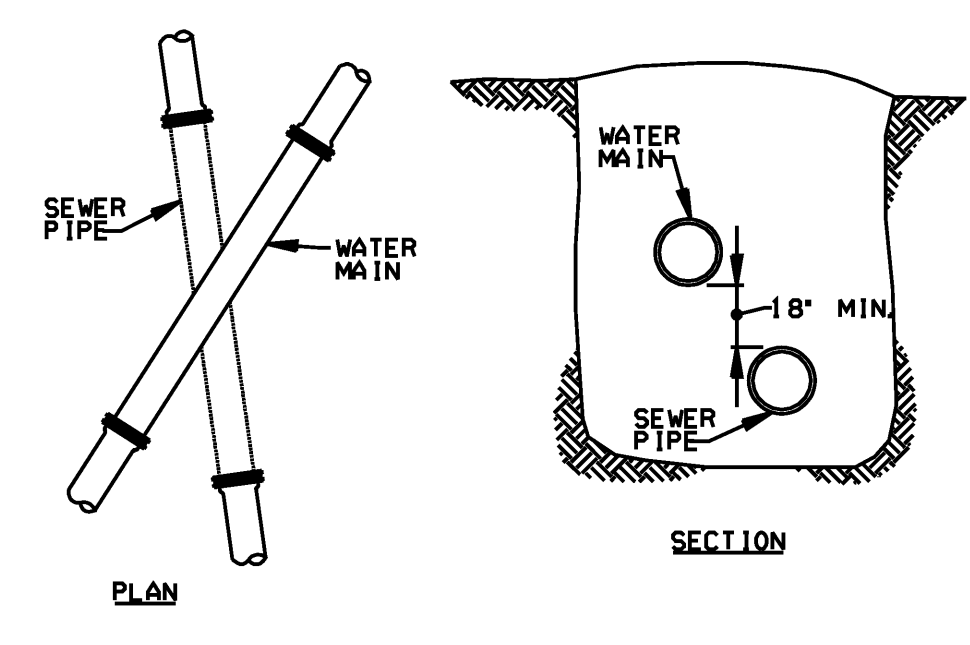


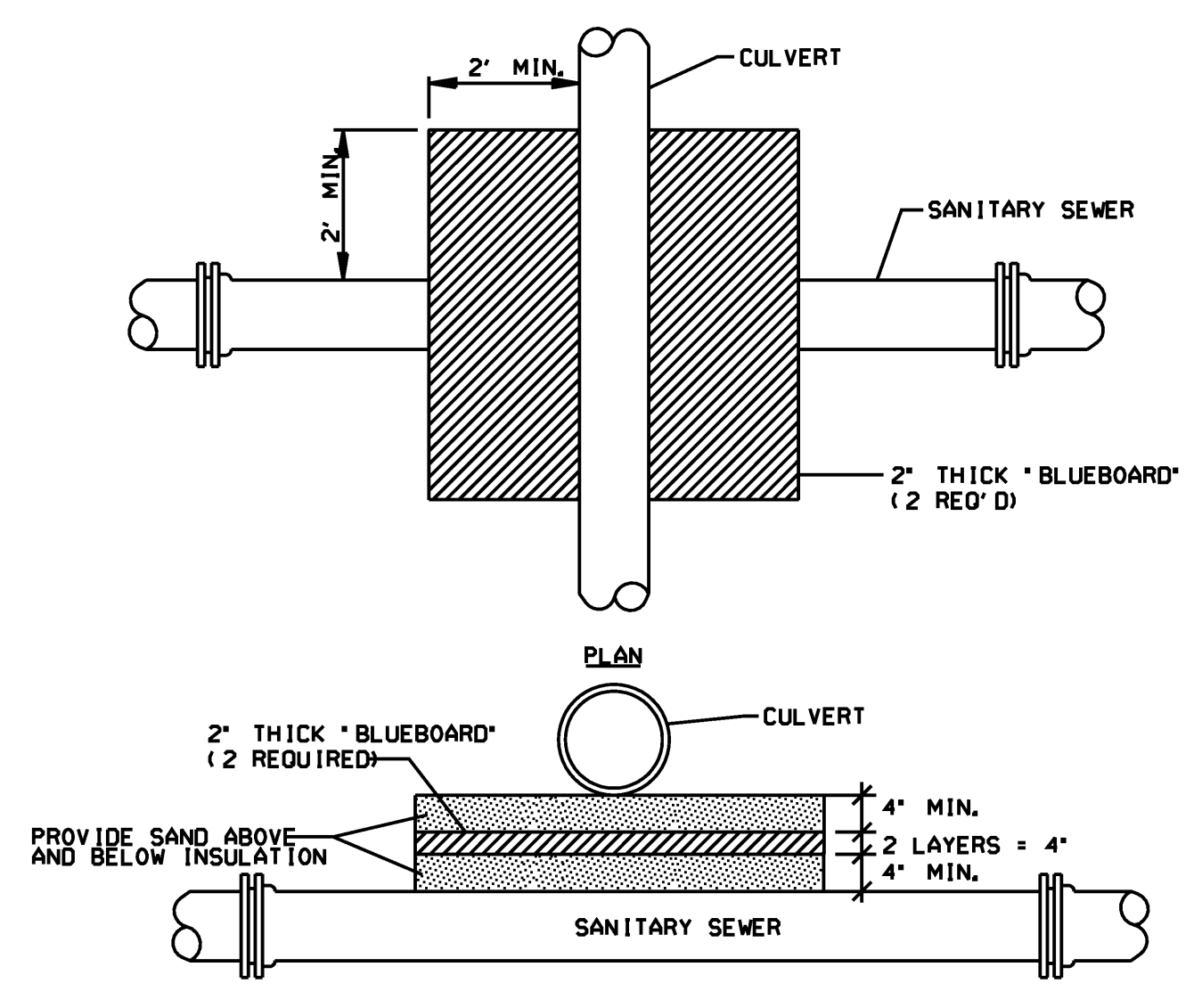
PRECAST CONCRETE MANHOLE
NOT TO SCALE

NOTE: MANHOLE STRUCTURE TO BE CAPABLE OF SUPPORTING AASHTO H-20 LOADING

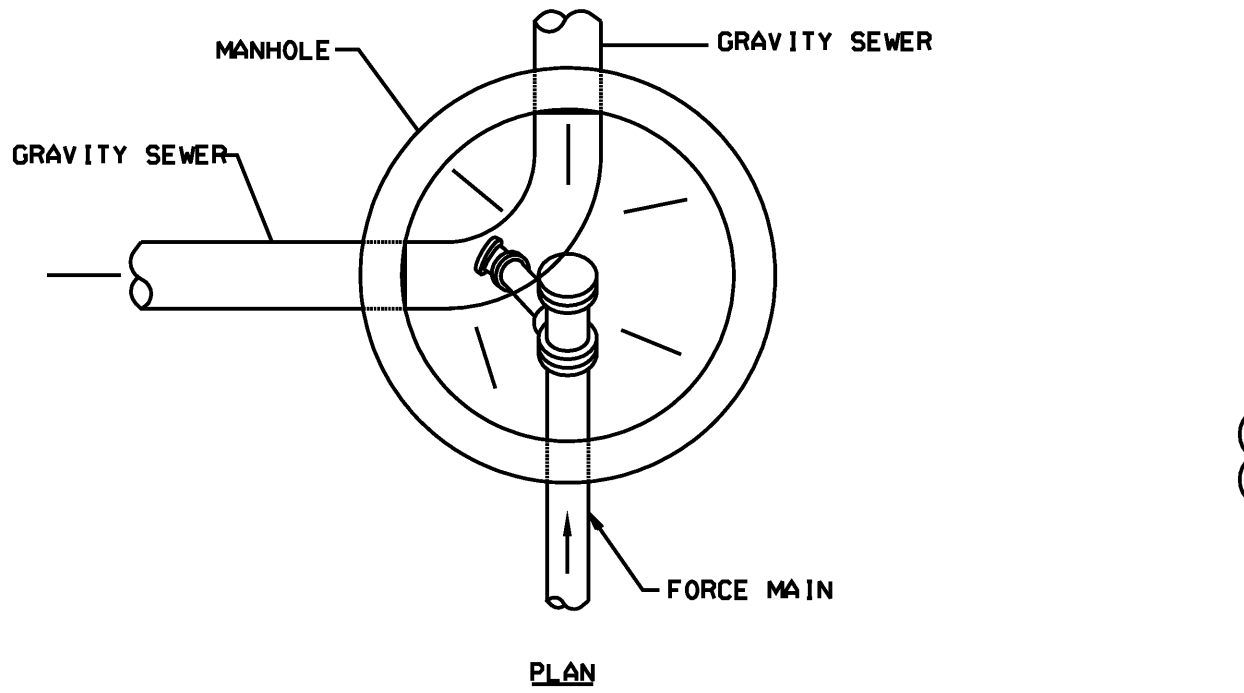
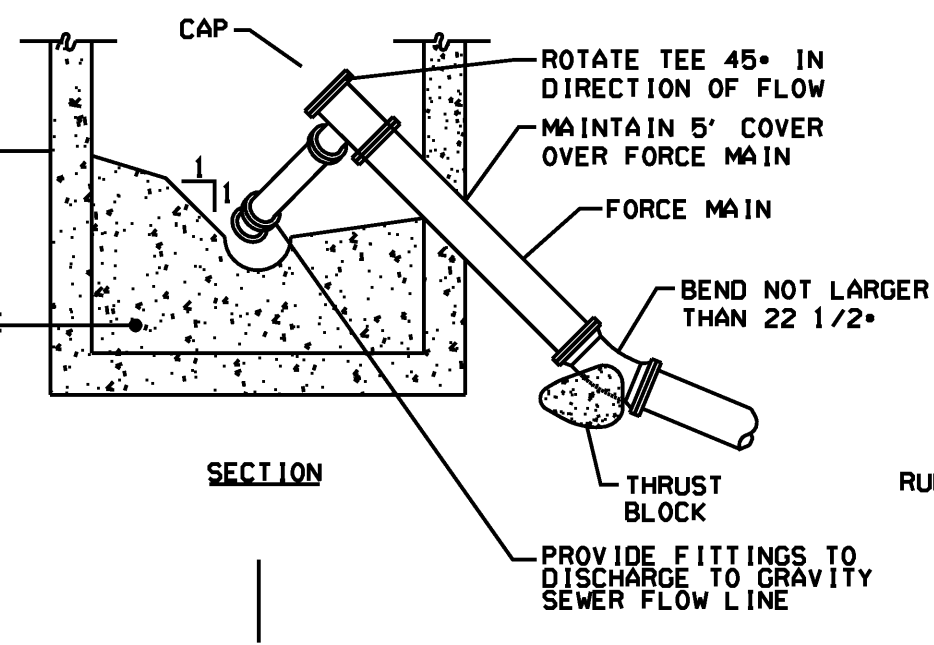


NOTE: AT WATER LINE CROSSINGS WHERE CLEARANCE BETWEEN WATER AND SEWER PIPES IS LESS THAN 18", SEWER PIPE SHALL BE SDR 26 PVC FOR A MIN. OF 20' EITHER SIDE OF THE CROSSING OR A TOTAL OF 3 PIPE LENGTHS, WHICHEVER IS GREATER. ONE FULL LENGTH OF SEWER PIPE SHALL BE CENTERED OVER WATER PIPE WITH SEWER JOINTS AS FAR AS POSSIBLE FROM WATER JOINTS. THE SEWER SECTION MUST BE PRESSURE TESTED TO MAINTAIN 50 PSI FOR 15 MINUTES WITHOUT LEAKAGE PRIOR TO BACKFILLING BEYOND ONE FOOT ABOVE THE PIPE TO ASSURE WATER TIGHTNESS.

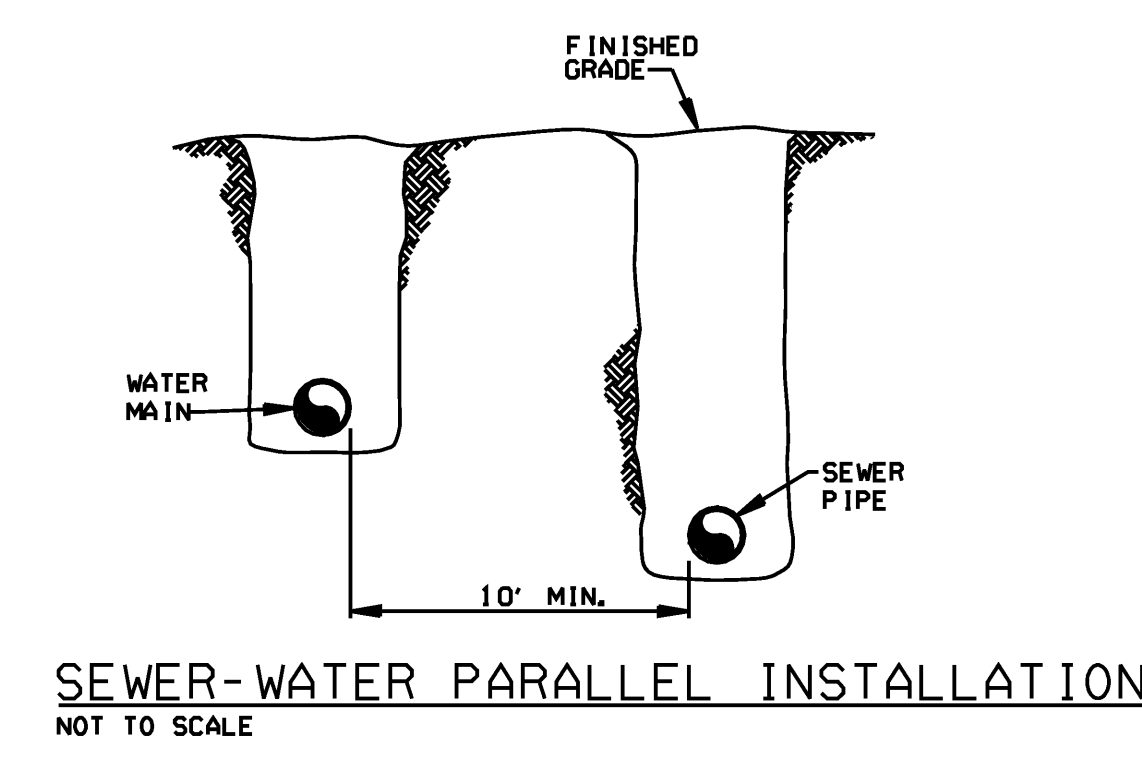
SEWER PIPE AND WATER MAIN CROSSING
NOT TO SCALE



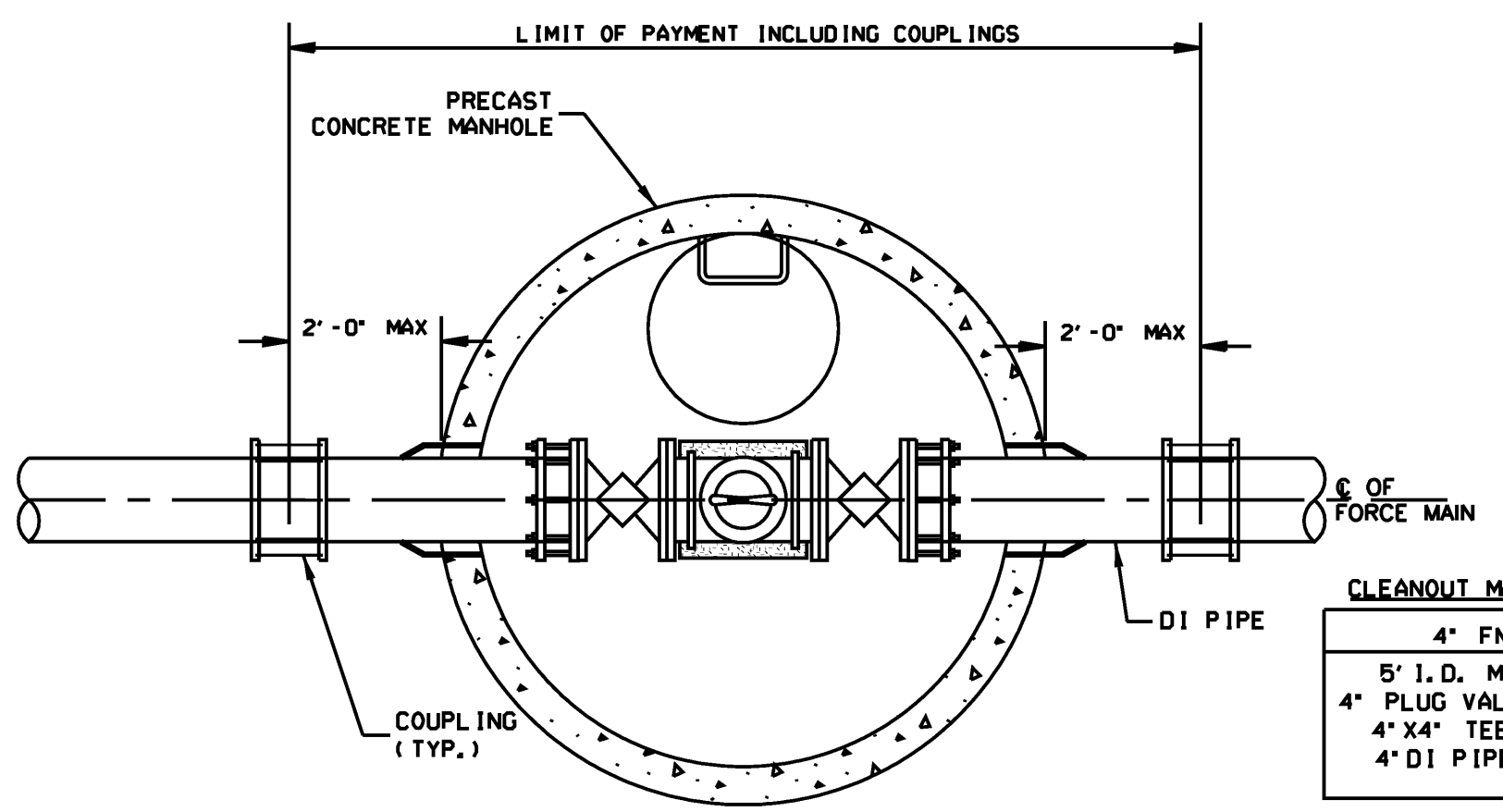
SANITARY SEWER INSULATION DETAIL
NOT TO SCALE



FORCE MAIN CONNECTION TO MANHOLE
NOT TO SCALE

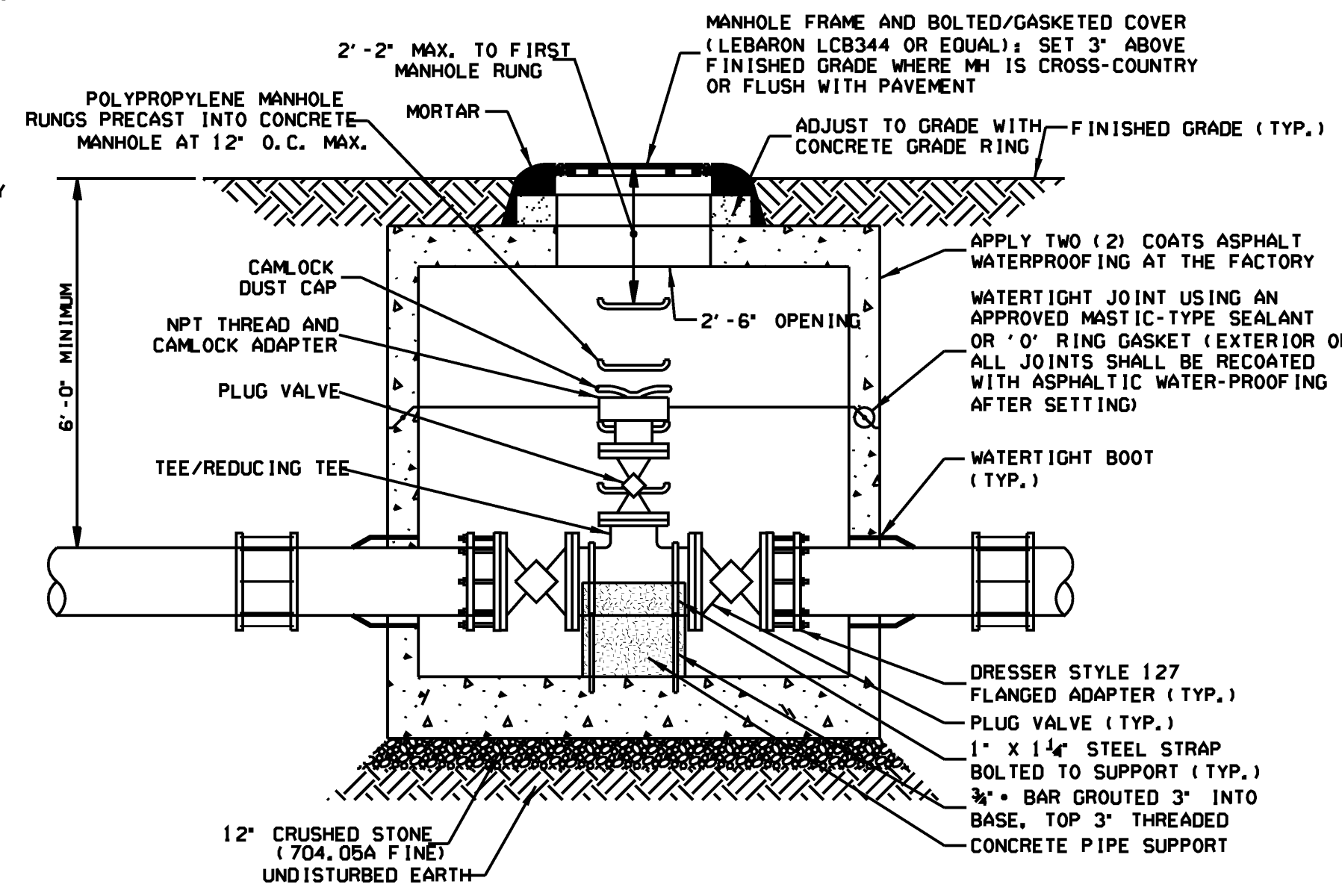


SEWER-WATER PARALLEL INSTALLATION
NOT TO SCALE



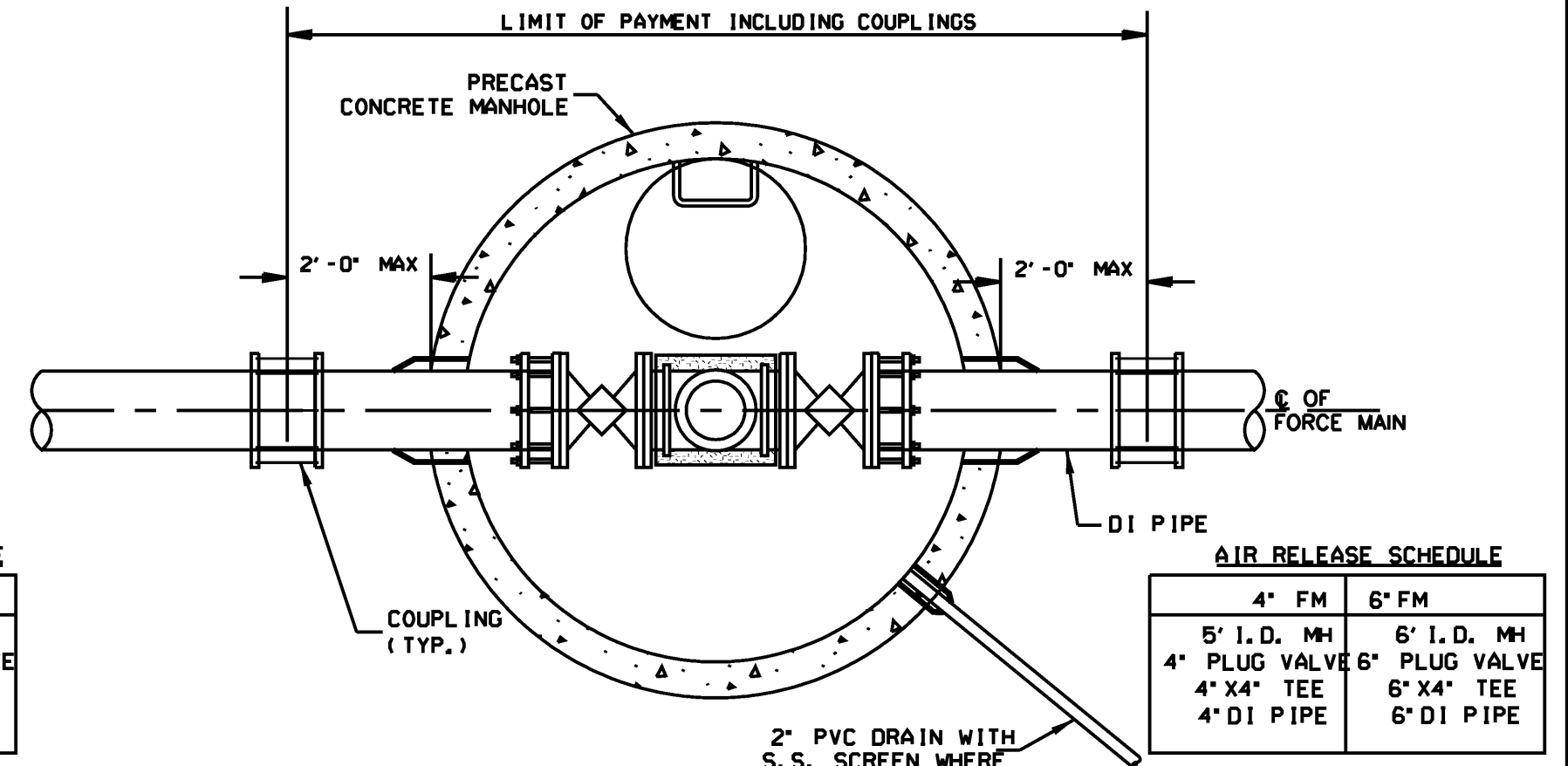
CLEANOUT MANHOLE SCHEDULE

4" FM	6" FM
5" I.D. MH	6" I.D. MH
4" PLUG VALVE	6" PLUG VALVE
4" X 4" TEE	6" X 4" TEE
4" DI PIPE	6" DI PIPE



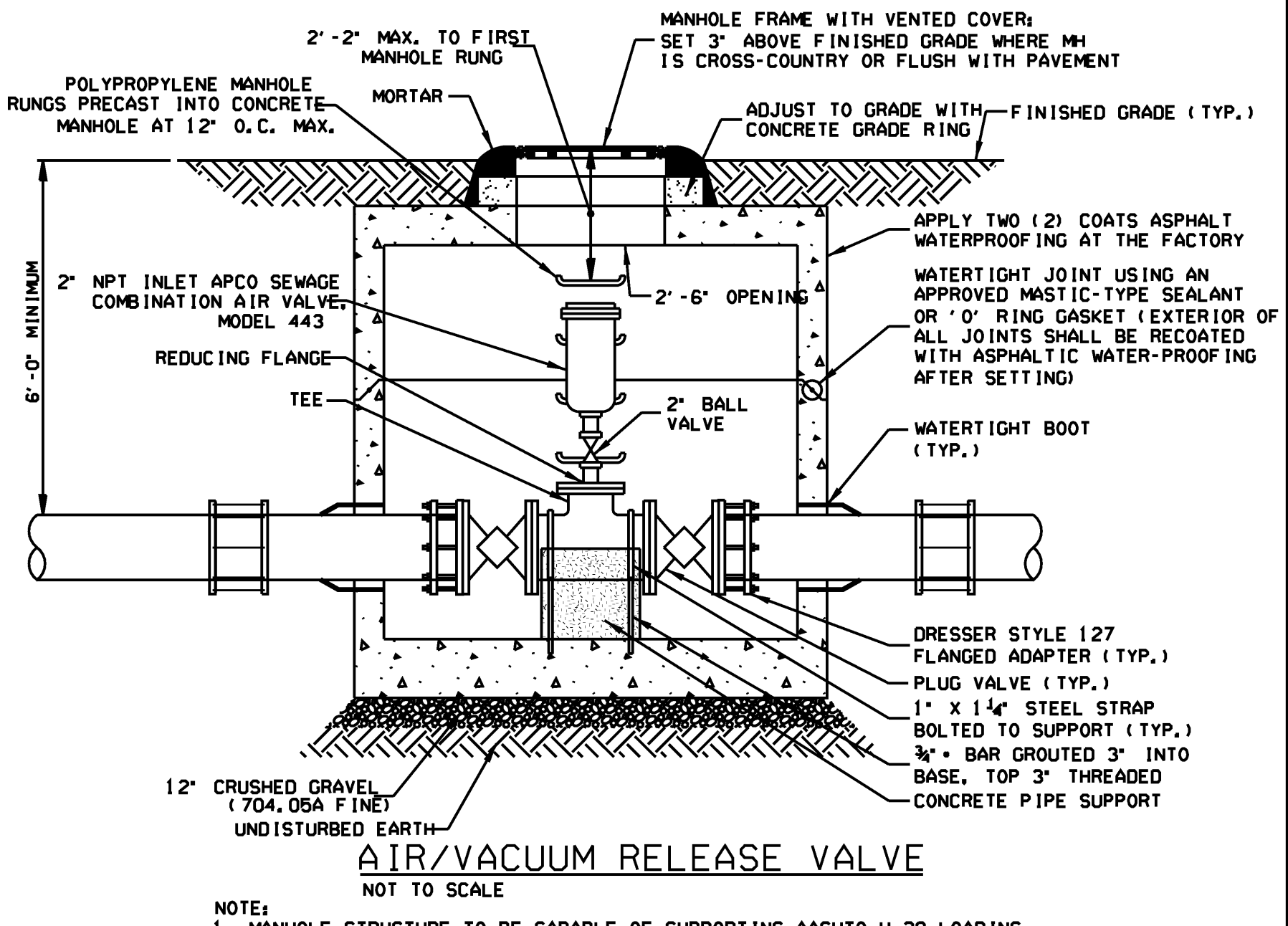
NOTES:
1. MANHOLE STRUCTURE TO BE CAPABLE OF SUPPORTING AASHTO H-20 LOADING.
2. SEE SCHEDULE FOR PART SIZES.

TYPICAL GRAVITY SANITARY SEWER TRENCH DETAIL
NOT TO SCALE

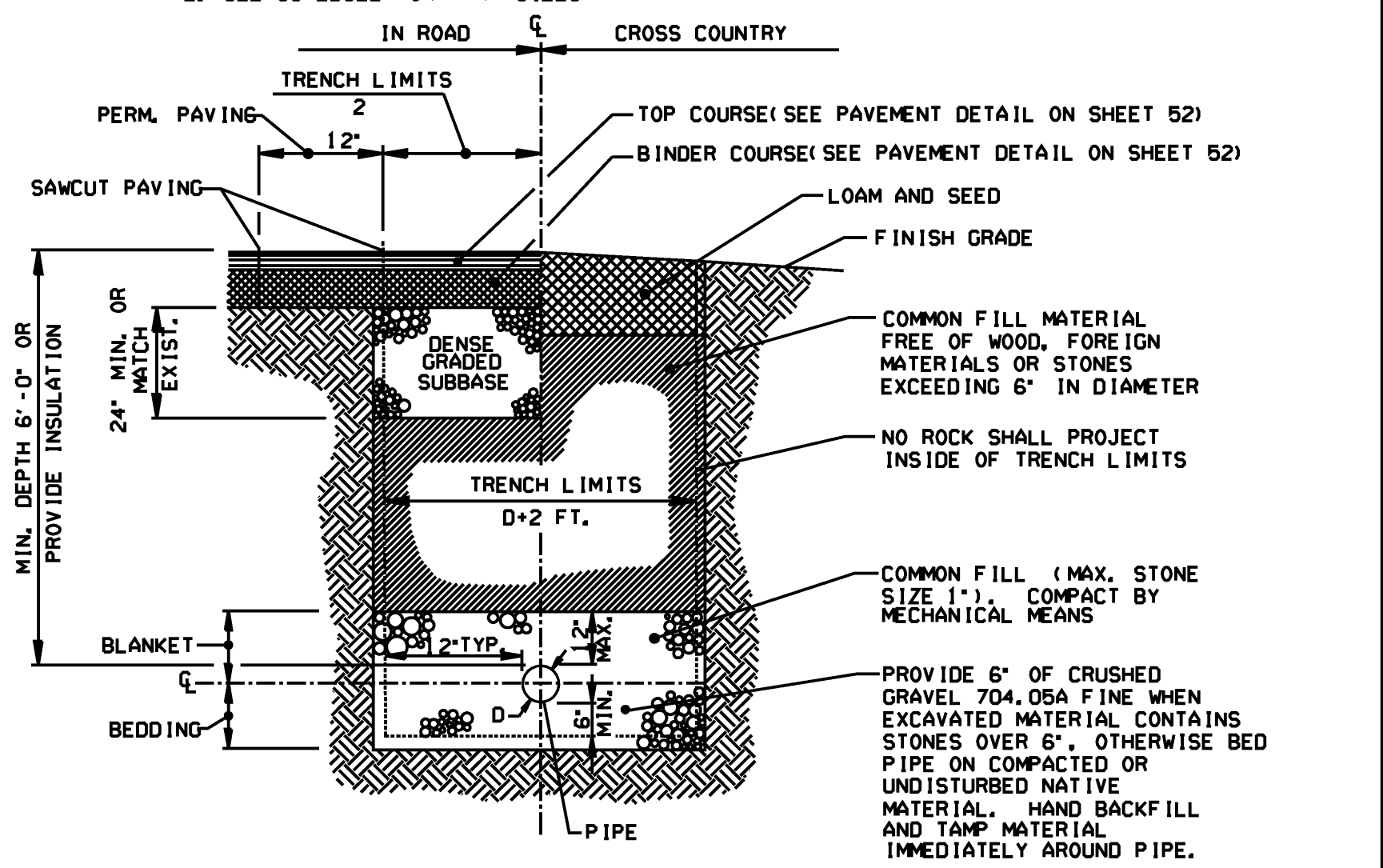


AIR RELEASE SCHEDULE

4" FM	6" FM
5" I.D. MH	6" I.D. MH
4" PLUG VALVE	6" PLUG VALVE
4" X 4" TEE	6" X 4" TEE
4" DI PIPE	6" DI PIPE



NOTE:
1. MANHOLE STRUCTURE TO BE CAPABLE OF SUPPORTING AASHTO H-20 LOADING.
2. SEE SCHEDULE FOR PART SIZES



DUCTILE IRON PIPE MAIN TRENCH DETAIL
NOT TO SCALE



PROJECT NAME: HARTFORD REST AREAS
PROJECT NUMBER: IM BLDG(10)
FILE NAME: ...u04c026p1t-Sewer_Details.dgn
PROJECT LEADER: JTM
DESIGNED BY: JTM
DRAWN BY: JTM
CHECKED BY: JTM
DATE: 5/19/2008
SHEET 51 OF 70