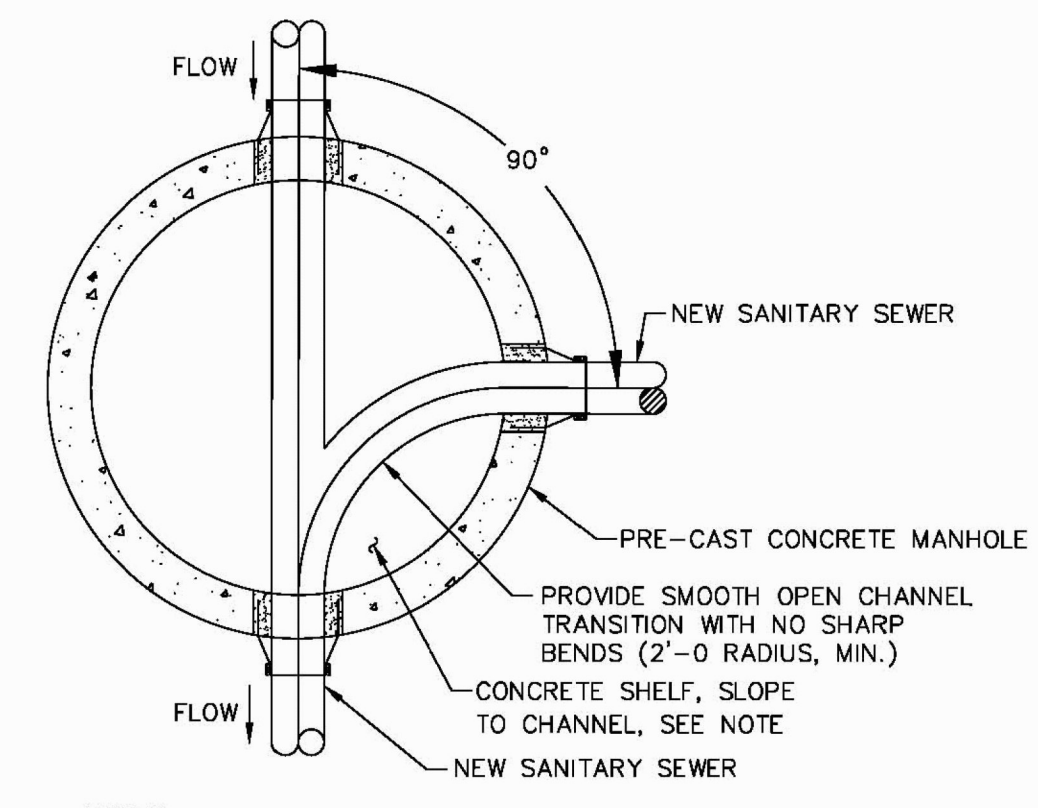


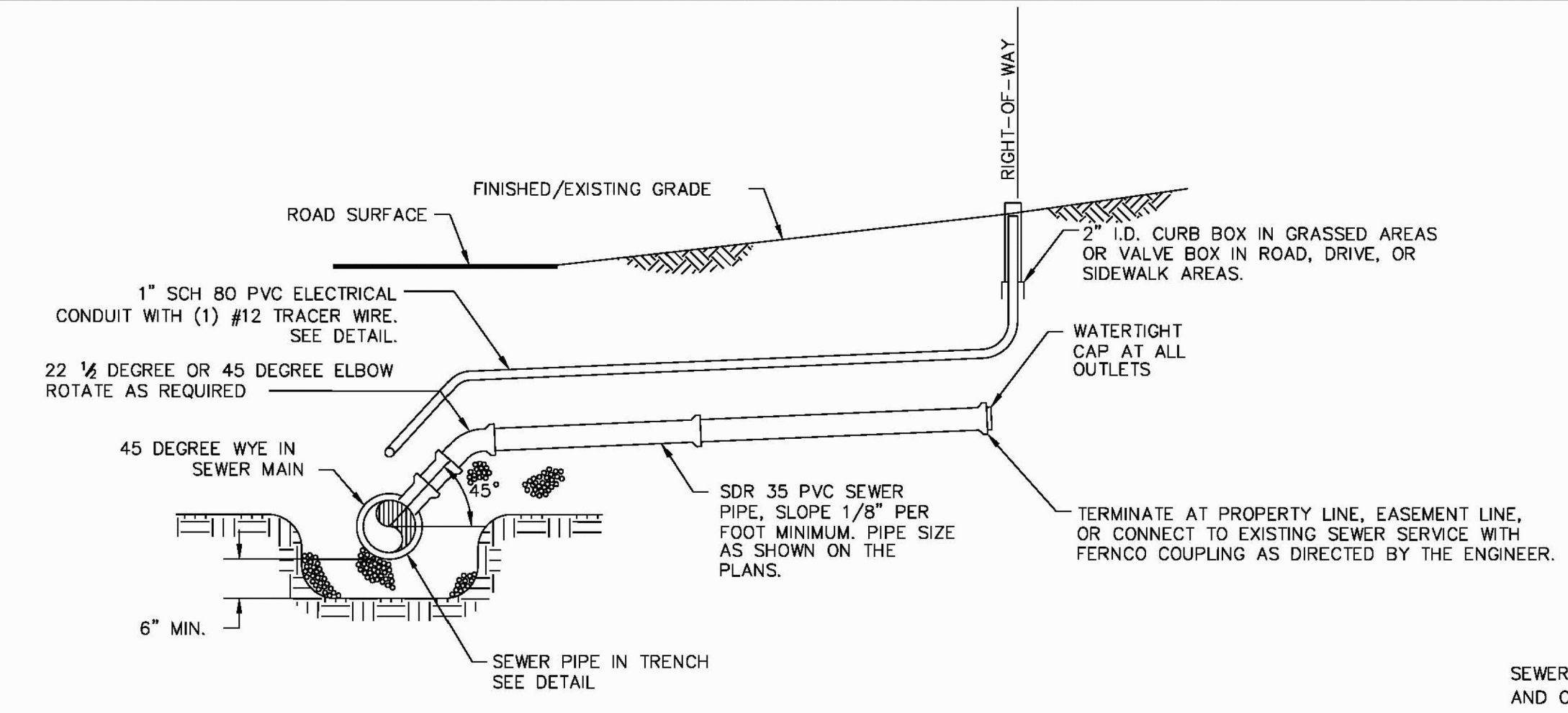
NOTE:
MANHOLE STRUCTURE TO BE CAPABLE OF SUPPORTING AASHTO H-20 LOADING

PRECAST CONCRETE MANHOLE
NOT TO SCALE

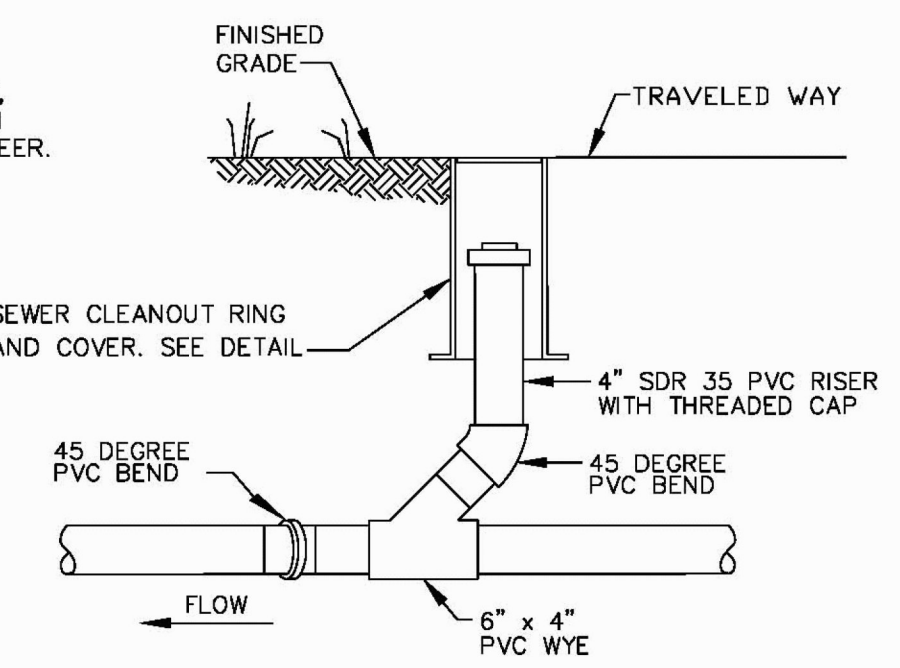


NOTES:
1. INVERTS SHALL HAVE THE EXACT SHAPE OF THE SEWER TO WHICH THEY ARE CONNECTED, AND ANY CHANGE IN SIZE OR DIRECTION SHALL BE GRADUAL AND EVEN.
2. FOR INVERTS WITH STRAIGHT RUNS ONLY, CONSTRUCT INVERT WITH CONCRETE AND A SEGMENT OF PVC PIPE CUT IN HALF LONGITUDINALLY.

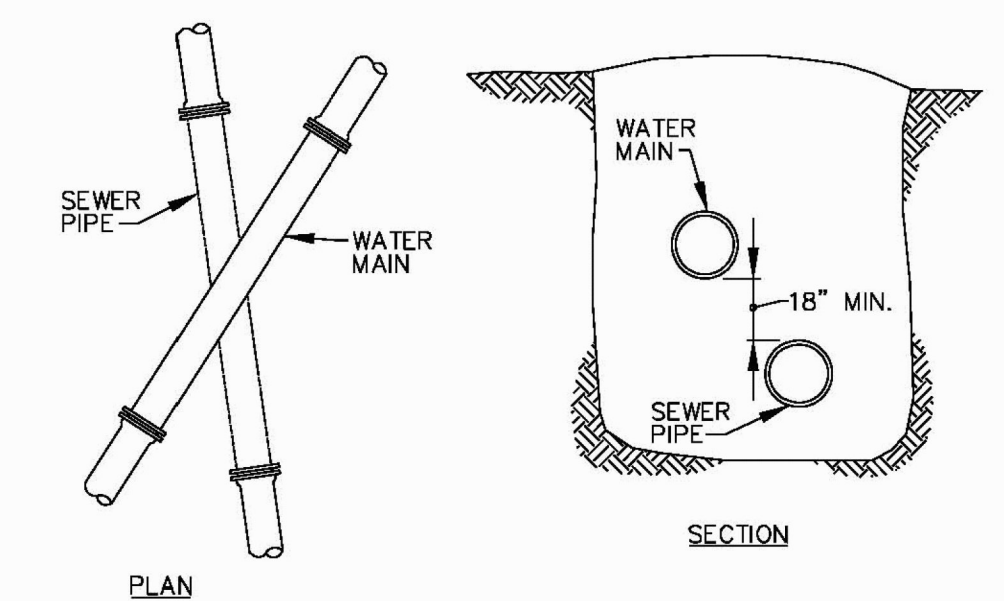
PRECAST CONCRETE MANHOLE
NOT TO SCALE



SEWER SERVICE DETAIL
NOT TO SCALE

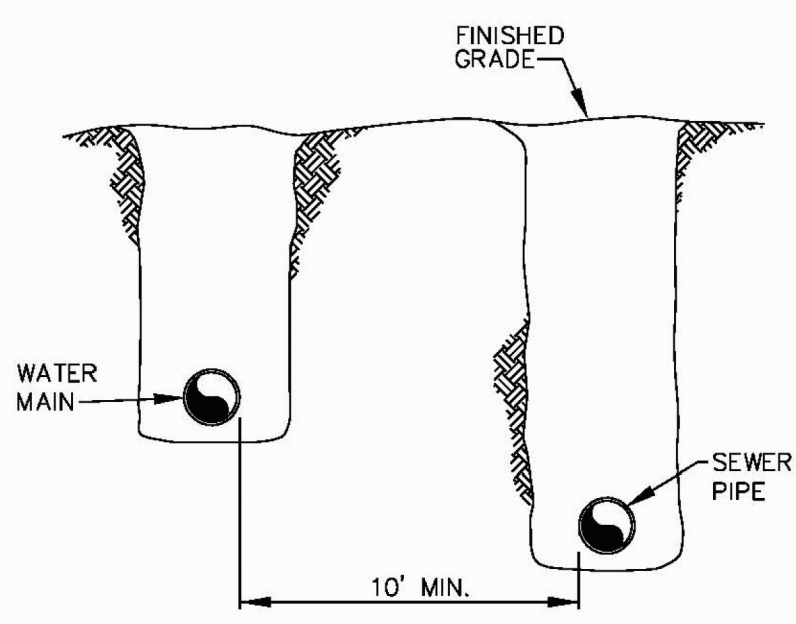


CLEANOUT DETAIL
NOT TO SCALE

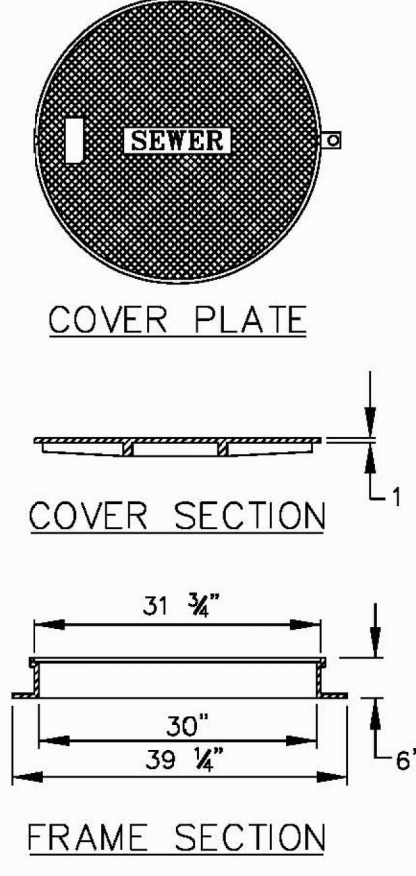


NOTE:
AT WATER LINE CROSSINGS WHERE CLEARANCE BETWEEN WATER AND SEWER PIPES IS LESS THAN 18", SEWER PIPE SHALL BE SDR 26 PVC FOR A MIN. OF 20' EITHER SIDE OF THE CROSSING OR A TOTAL OF 3 PIPE LENGTHS, WHICHEVER IS GREATER. ONE FULL LENGTH OF SEWER PIPE SHALL BE CENTERED OVER WATER PIPE WITH SEWER JOINTS 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



SEWER-WATER PARALLEL INSTALLATION
NOT TO SCALE

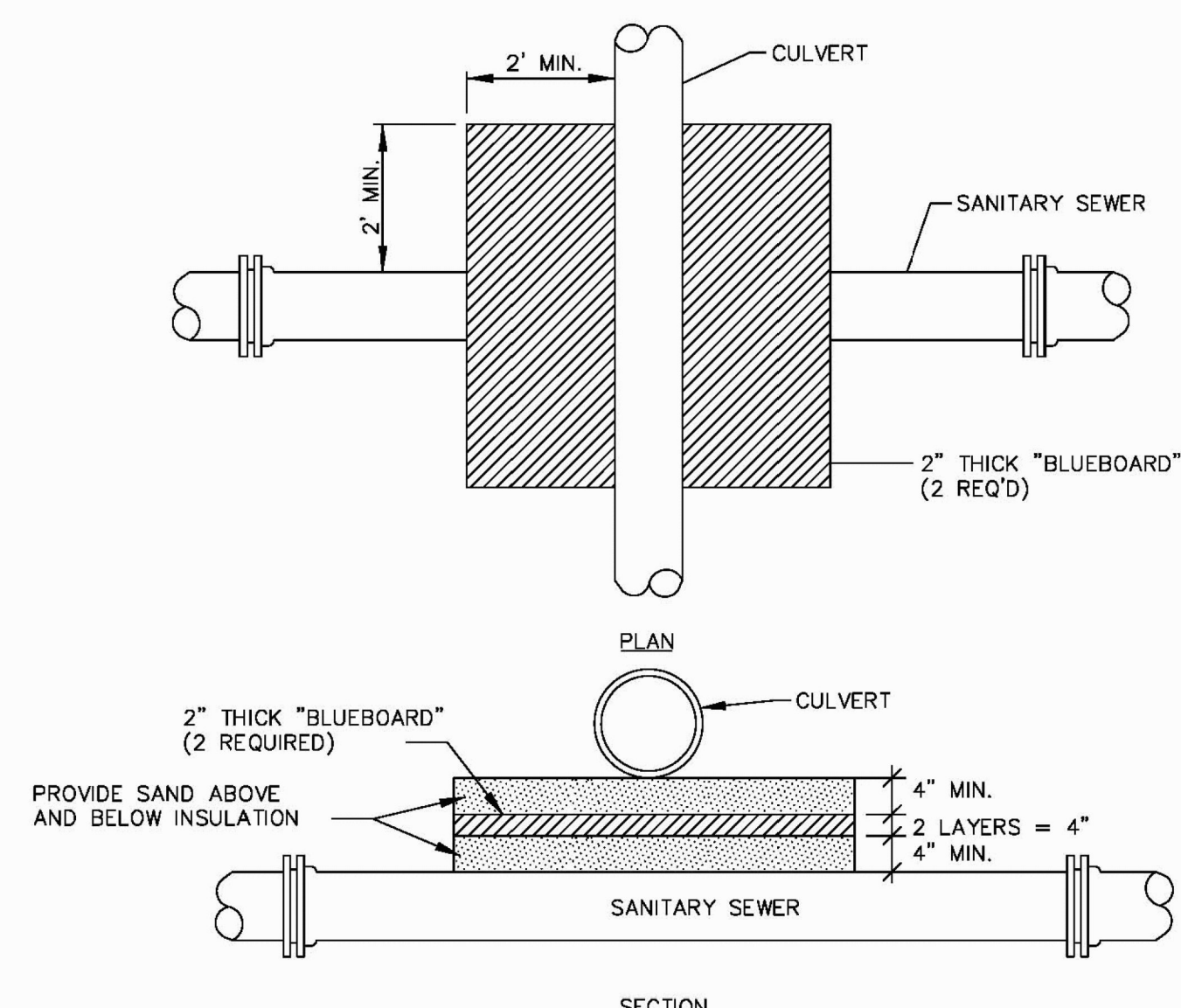


MANHOLE FRAME AND COVER DETAIL
NOT TO SCALE

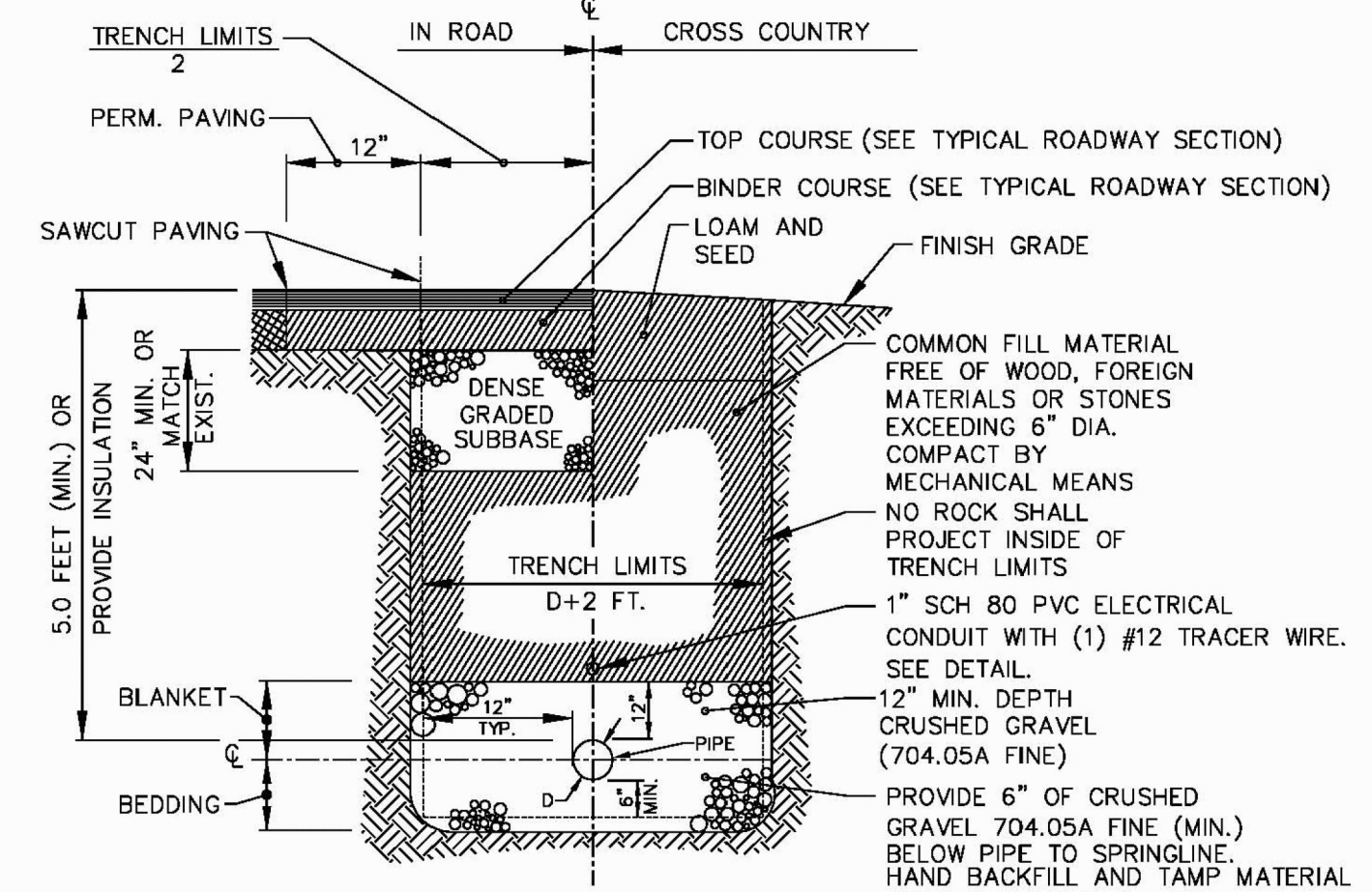
MANHOLE FRAME AND COVER NOTES:
1. MANHOLE FRAME AND COVERS SHALL BE PROVIDED WITH HEAVY-DUTY, CIRCULAR, HINGED, LOCKING COVERS. MANHOLE FRAME AND COVERS SHALL BE EITHER GREY CAST IRON, MEETING ASTM A48 CLASS 35B AND AASHTO M306, OR DUCTILE IRON CONFORMING TO THE LATEST VERSION OF THE ASTM SPECIFICATION A536 GRADE 80-55-06. MANHOLE FRAME AND COVERS SHALL BE RATED TO CARRY A MINIMUM DESIGN LOAD OF AASHTO H-20. MANHOLE FRAME AND COVERS SHALL HAVE A MINIMUM 30-INCH DIAMETER CLEAR OPENING. MANHOLE COVERS SHALL HAVE THE WORD "SEWER" CAST ON AND THE REMAINDER OF THE COVER SHALL BE CAST WITH A NON-SKID SURFACE. COVERS SHALL BE COATED TO PROVIDE CORROSION RESISTANCE. MANHOLE FRAME AND COVERS SHALL BE HINGED AND OPEN TO A MINIMUM OF 100 DEGREES WITH A HOLD OPEN MECHANISM AT 90 DEGREES THAT WILL PREVENT ACCIDENTAL CLOSURE. MANHOLE FRAME AND COVERS SHALL BE SUPPLIED WITH LOCKING DEVICES. ALL COVERS SHALL BE SUPPLIED WITH AN INFILTRATION PLUG AND AN ELASTOMERIC GASKET SHALL BE PROVIDED BETWEEN THE FRAME AND COVER TO SEAT THE CLOSED COVER. COVERS SHALL BE ONE-MAN OPERABLE WITH INTEGRAL LIFTING SLOTS.
2. MANHOLE FRAME AND COVERS SHALL BE NEENAH FOUNDRY OF NEENAH, WI, CATALOG ITEM R-1743-LM, OR HEAVY-DUTY PAMREX 32-INCH COVER AS MANUFACTURED BY CERTAINTED CORPORATION OF VALLEY Forge, PA, OR 30" ERGO XL ASSEMBLY AS MANUFACTURED BY EAST JORDAN IRON WORKS OF EAST JORDAN, MI., OR EQUAL.

GENERAL SANITARY SEWER CONSTRUCTION NOTES:

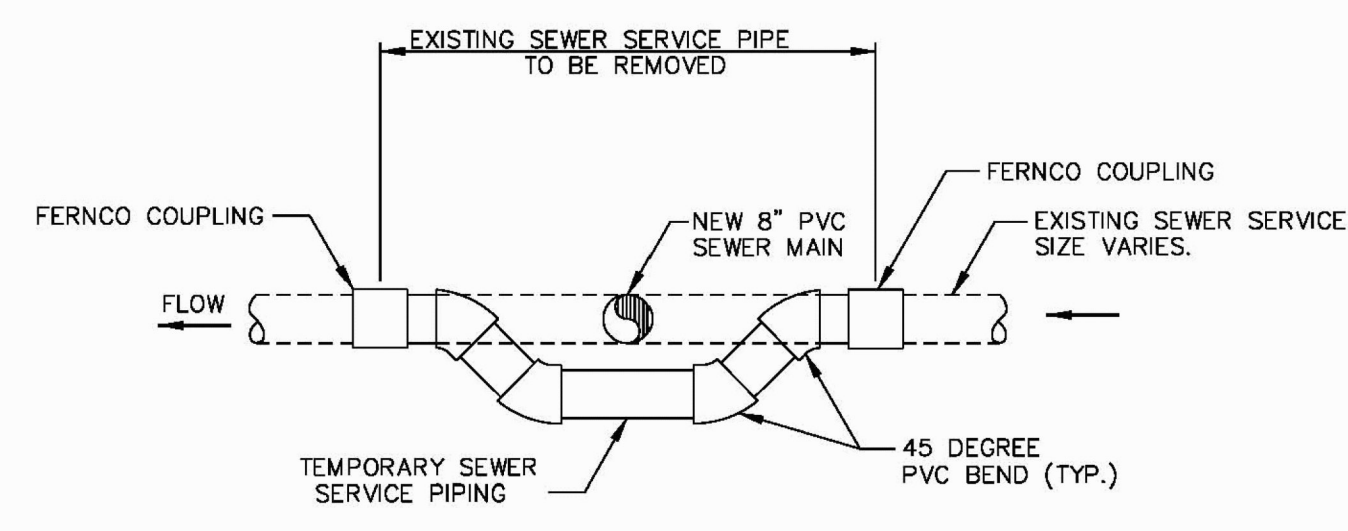
- ALL LATERAL SANITARY SEWER SERVICE CONNECTIONS ARE APPROXIMATE AS DEPICTED ON THE PLANS. CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION PER DIRECTION OF THE ENGINEER ON EACH LATERAL SERVICE AT THE RIGHT-OF-WAY AND AT EXISTING WATERLINE CROSSINGS TO CONFIRM PIPE SIZE, MATERIAL, EXACT LOCATION, AND ACTIVE/ABANDONED STATUS. PAYMENT FOR EXPLORATORY EXCAVATION SHALL BE INCIDENTAL TO ITEM 900.6454 SPECIAL PROVISION (TRANSFER TO NEW SYSTEM, SANITARY SEWER).
- THE NEW SANITARY SEWER MAIN IS LOCATED PARALLEL TO THE EXISTING MAIN IN PLAN VIEW AND LOCATED APPROXIMATELY AT THE SAME ELEVATION AS THE EXISTING MAIN AS DEPICTED ON THE SEWER PROFILES. DUE TO POTENTIAL CONFLICTS DURING CONSTRUCTION WITH EXISTING LATERAL SEWER SERVICES, THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF EXISTING SEWAGE FLOWS BOTH IN THE EXISTING SANITARY SEWER MAIN AND LATERAL SEWER SERVICES INCLUDING THE INSTALLATION AND MAINTENANCE OF ALL NECESSARY BYPASS PUMPING OPERATIONS AND/OR INSTALLATION OF TEMPORARY SEWER SERVICE PIPING AS DETAILED ON THE PLANS AND AS MAY BE REQUIRED. ALL WORK ASSOCIATED WITH MAINTENANCE OF EXISTING SEWAGE FLOWS BOTH IN THE EXISTING SANITARY SEWER MAIN AND LATERAL SEWER SERVICES INCLUDING THE INSTALLATION AND MAINTENANCE OF ALL NECESSARY BYPASS PUMPING OPERATIONS AND/OR INSTALLATION OF TEMPORARY SEWER SERVICE PIPING SHALL BE INCIDENTAL TO ITEM 900.6454 SPECIAL PROVISION (TRANSFER TO NEW SYSTEM, SANITARY SEWER).
- CONTRACTOR SHALL ESTABLISH CONSTRUCTION PHASING SUCH THAT THE EXISTING SANITARY SEWER MAIN INCLUDING ALL MANHOLES AND LATERAL PIPES REMAIN IN SERVICE DURING CONSTRUCTION OF NEW SANITARY SEWER MAIN AND MANHOLES. IN LOCATIONS OF CONFLICT BETWEEN NEW SANITARY SEWER MAIN AND EXISTING LATERAL SERVICES, CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY SEWER SERVICE PIPING AS DETAILED ON THE PLANS. PAYMENT FOR TEMPORARY SEWER SERVICE PIPING SHALL BE INCIDENTAL TO ITEM 900.6454 SPECIAL PROVISION (TRANSFER TO NEW SYSTEM, SANITARY SEWER). UPON SUCCESSFUL TESTING OF NEW SANITARY SEWER MAIN AND MANHOLES, EXISTING LATERAL SERVICES BEGINNING AT THE NORTHERN END OF THE PROJECT AND PROCEEDING SOUTHERLY MAY BE TRANSFERRED OVER TO THE NEW SYSTEM AND THE EXISTING SYSTEM DECOMMISSIONED AS SPECIFIED ON THE PLANS.
- UPON SUCCESSFUL TESTING OF NEW DI SANITARY SEWER FORCE MAINS, CONTRACTOR SHALL COORDINATE UPSTREAM SEWER PUMP STATION ACTIVITIES WITH THE TOWN OF COLCHESTER AND THE ENGINEER PRIOR TO AND DURING TIE-IN TO THE TWO (2) EXISTING DI FORCE MAINS.
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF ONE-WAY TRAFFIC AND ACCESS TO AFFECTED COMMERCIAL AND RESIDENTIAL PROPERTIES AT ALL TIMES DURING CONSTRUCTION.



NOTE:
PAYMENT FOR INSULATION IS TO BE INCIDENTAL TO ITEM 900.6454 SPECIAL PROVISION (TRANSFER TO NEW SYSTEM, SANITARY SEWER).



TYPICAL GRAVITY SANITARY SEWER TRENCH DETAIL
NOT TO SCALE



NOTE:
PAYMENT FOR TEMPORARY SEWER SERVICE PIPING IS TO BE INCIDENTAL TO ITEM 900.6454 SPECIAL PROVISION (TRANSFER TO NEW SYSTEM, SANITARY SEWER).

DETAIL - TEMPORARY SERVICE PIPING AT NEW/EXISTING SEWER CONFLICT
NOT TO SCALE

RECORD DRAWING
DATE: DECEMBER 21, 2012



REVISION	BY	DATE
△ REVIEW COMMENTS	DMC	11/5/10

PROJECT NAME:	COLCHESTER CAMPUS CONNECTOR
PROJECT NUMBER:	TCSP TCSE (007)
FILE NAME:	...\\13-114-Sewerdet.pfl
PROJECT LEADER:	JBL
DESIGNED BY:	TDM
SEWER DETAIL	SEW-1
PLOT DATE:	12/2/2010
DRAWN BY:	RAW
CHECKED BY:	DMC
SHEET	109 OF 153