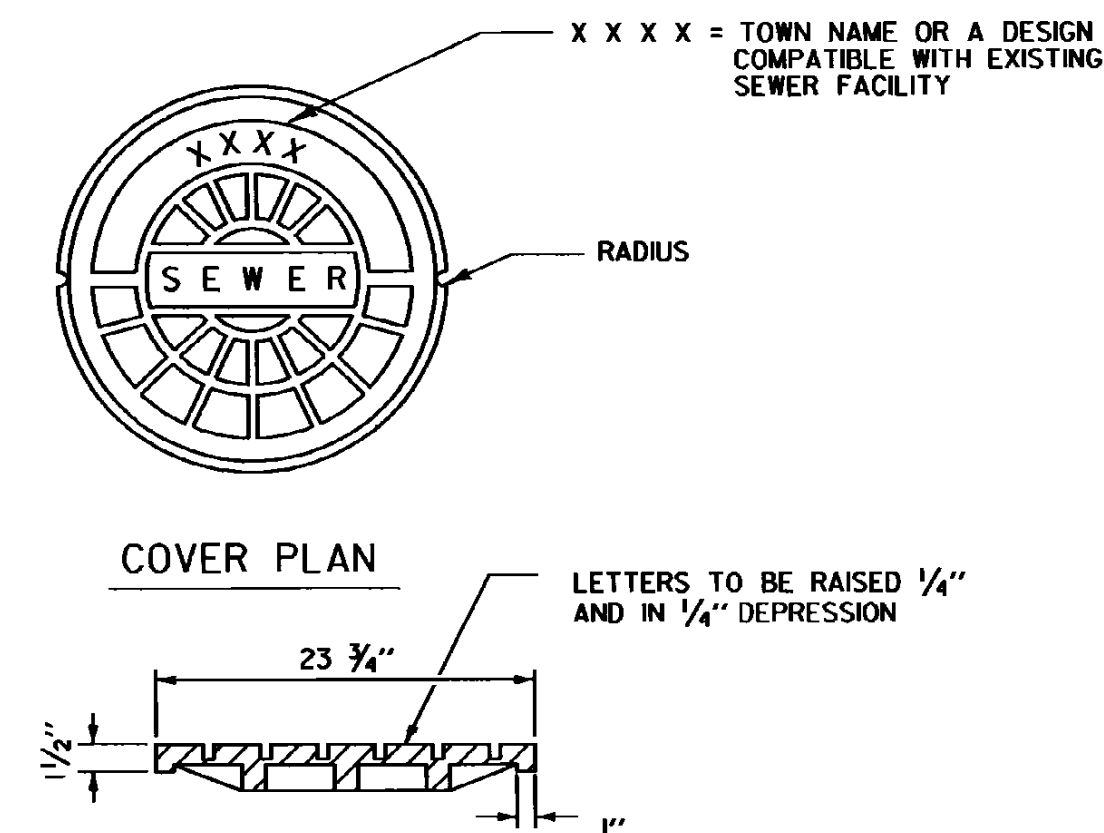
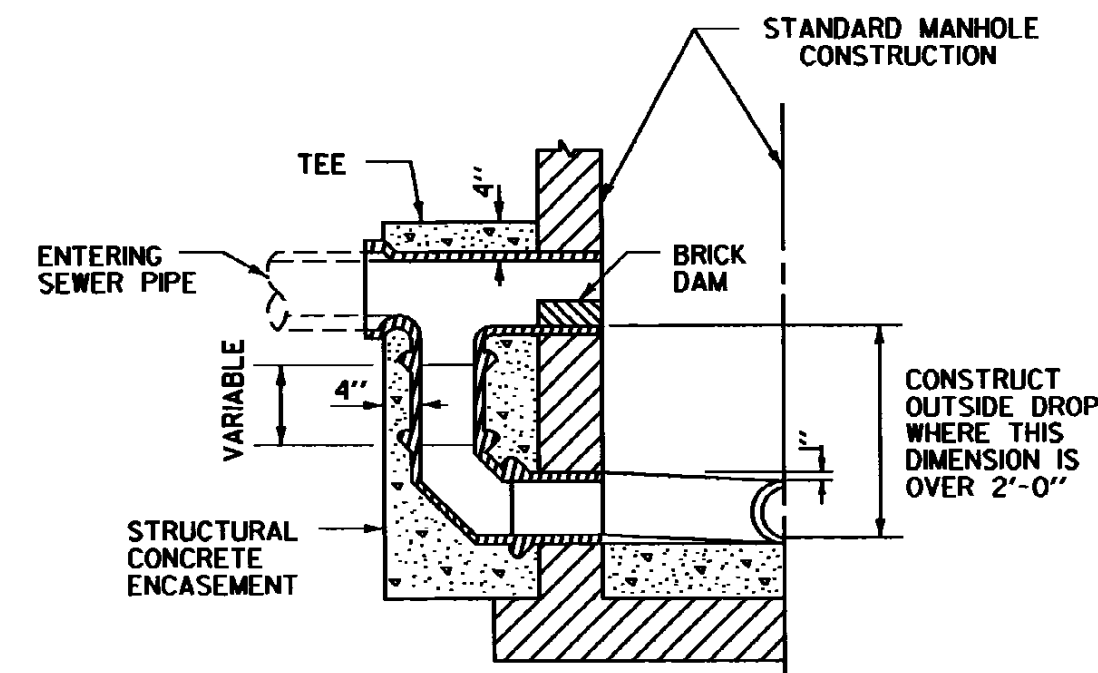
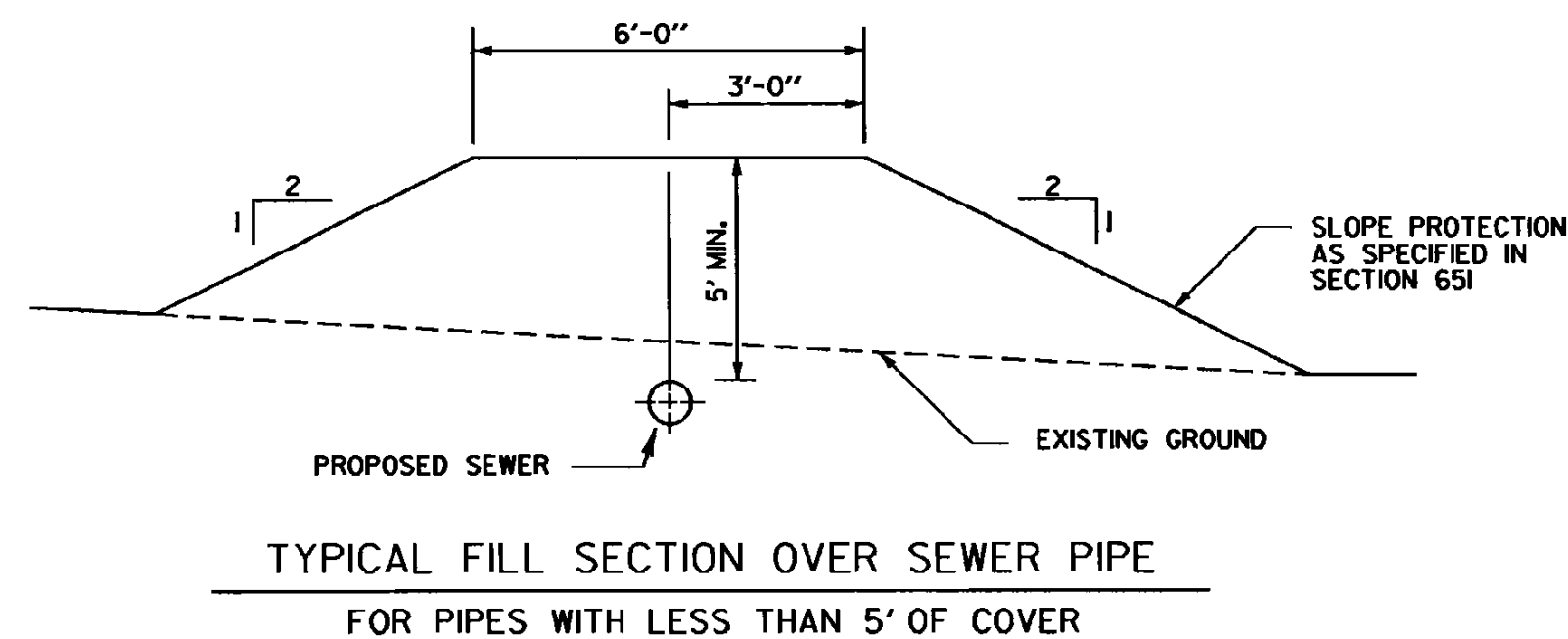




NOTES :

TRENCH EXCAVATION AND BACKFILLING OF SEWER PIPE SHALL BE AS SPECIFIED UNDER SECTION 628.

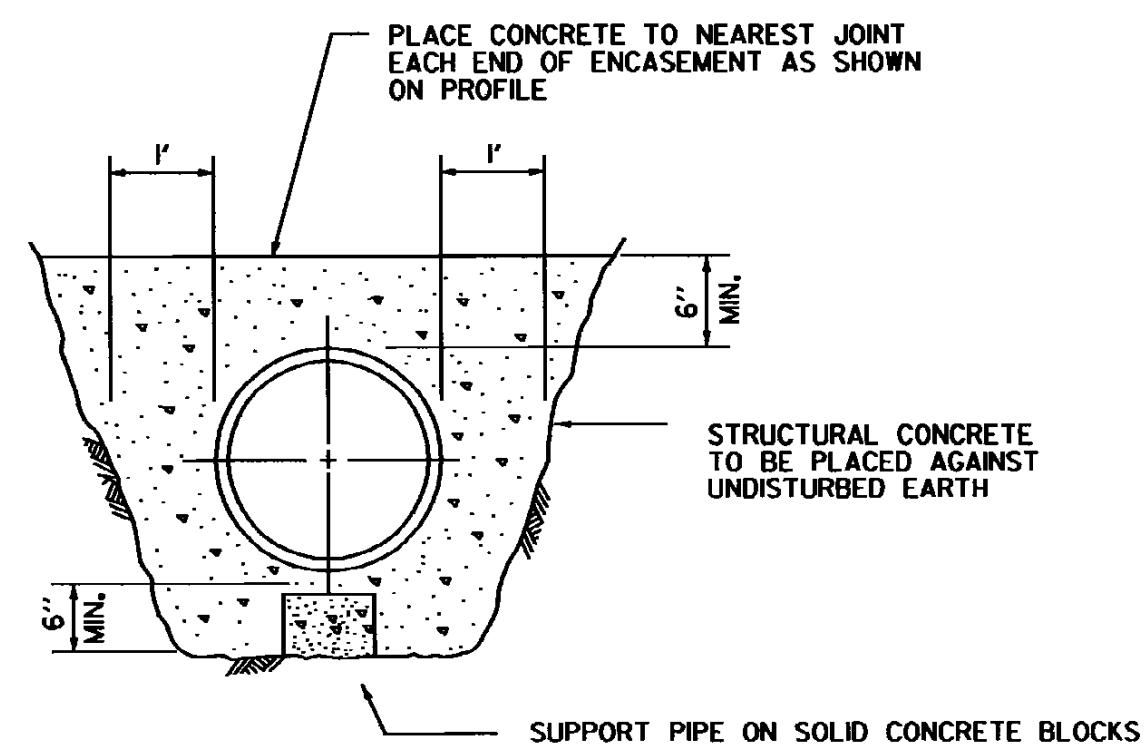
NO ADDITIONAL PAYMENT SHALL BE MADE FOR ABANDONING AND PLUGGING EXISTING PIPES WHEN DIRECTED BY THE ENGINEER.

CONCRETE ENCASEMENT OF SEWER LINES WILL BE REQUIRED WHERE THEY CROSS STORM DRAINS, WATER PIPES, OR OTHER STRUCTURES IN SUCH A MANNER AS TO IMPOSE UNUSUAL LOADING ON THE SEWER PIPE.

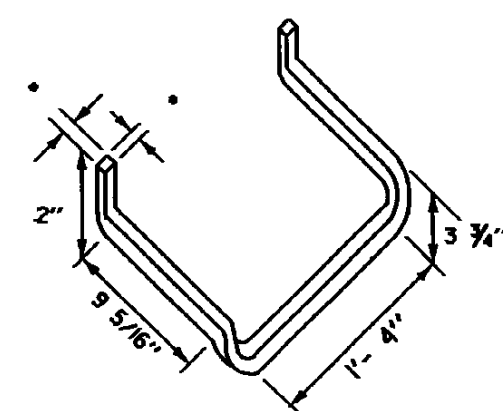
EMBANKMENTS SHALL BE COMPLETED AND COMPACTED TO AN ELEVATION AT LEAST 12 INCHES ABOVE THE TOP OF THE SEWER PIPE PRIOR TO EXCAVATING A TRENCH IN WHICH TO INSTALL THE PIPE.

CHIMNEY DETAIL FOR HOUSE SEWER CONNECTION SHALL BE USED ONLY AS SHOWN ON THE PLANS OR WHEN DIRECTED BY THE ENGINEER.

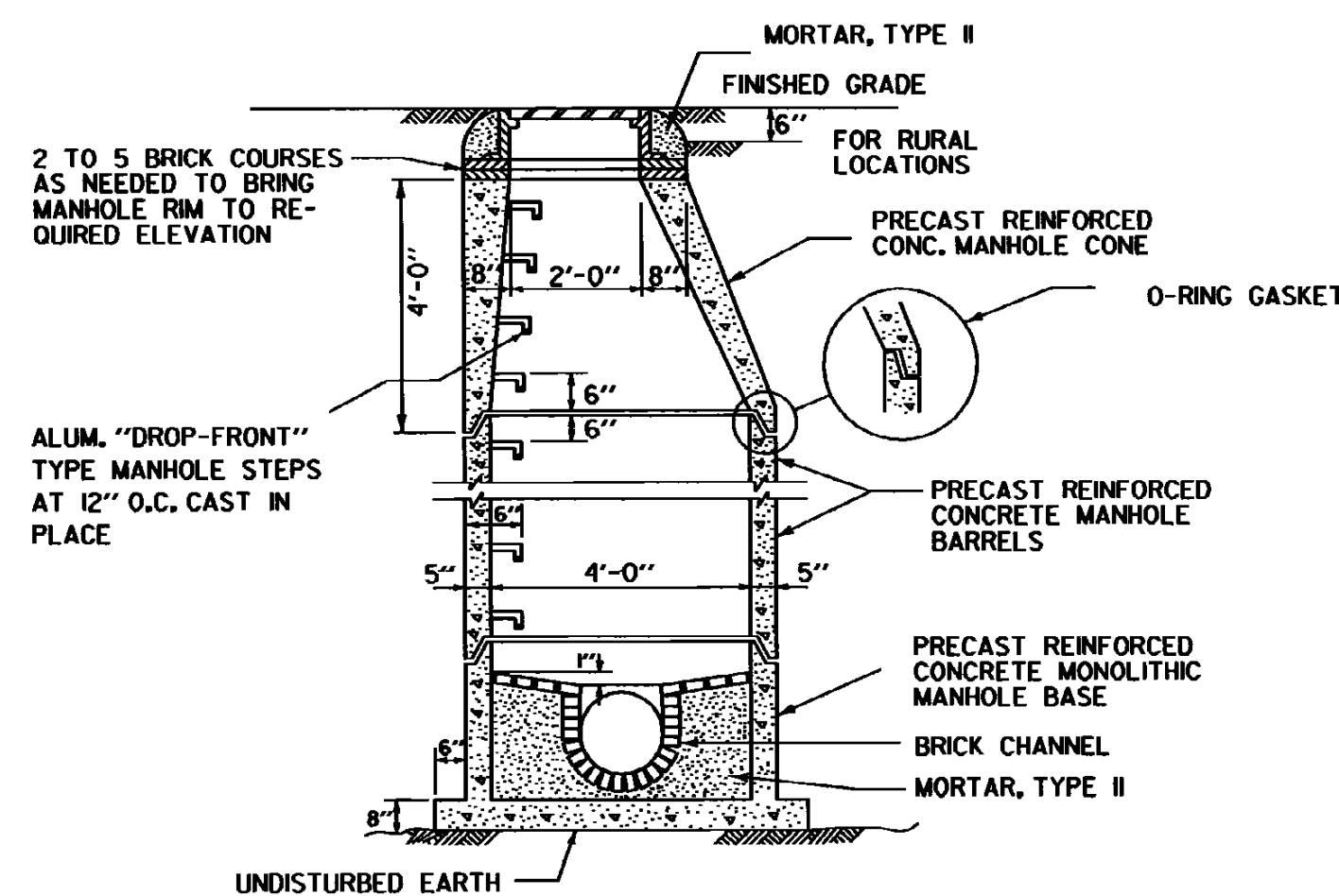
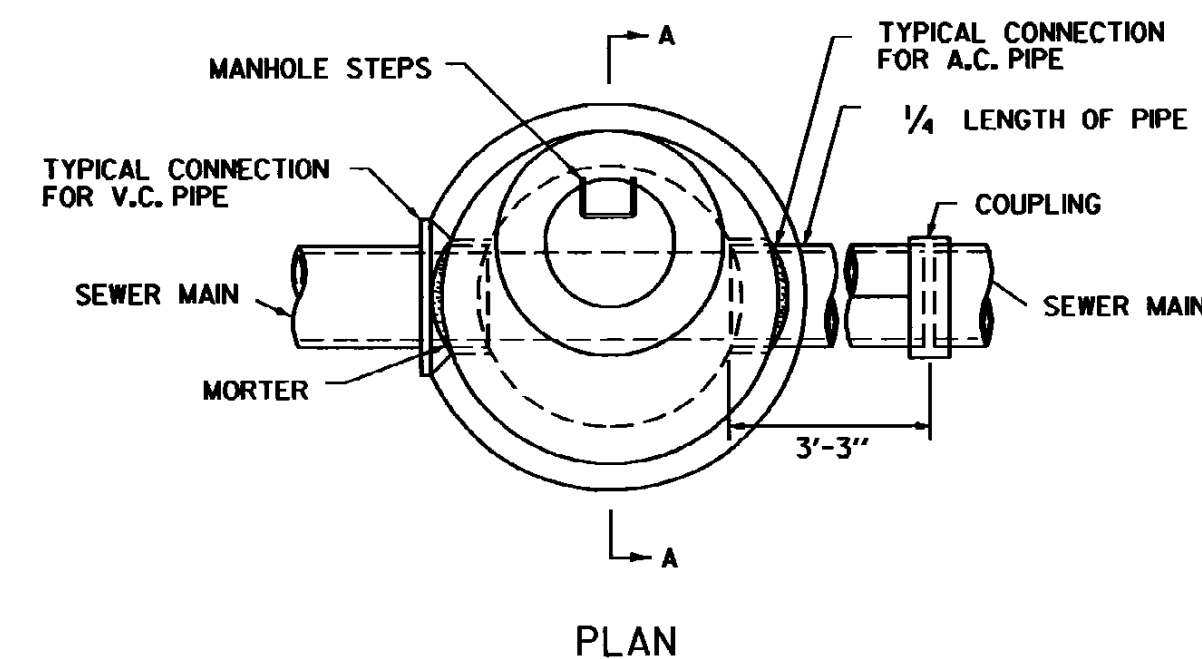
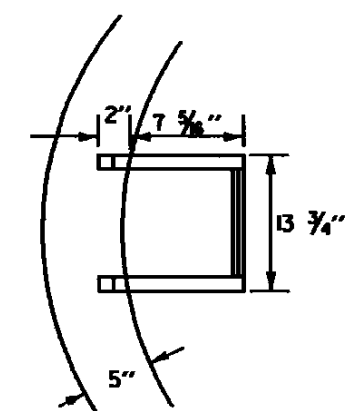
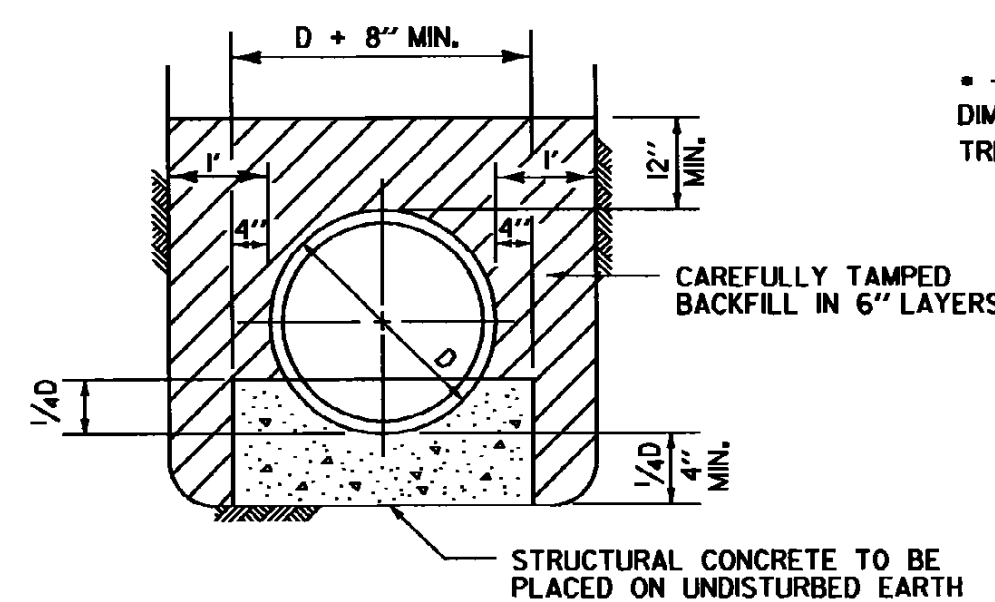
HOUSE CONNECTIONS TO BE TEE, WYE OR SADDLE AS APPROVED BY THE ENGINEER, AND COMPATIBLE WITH EXISTING FACILITIES.



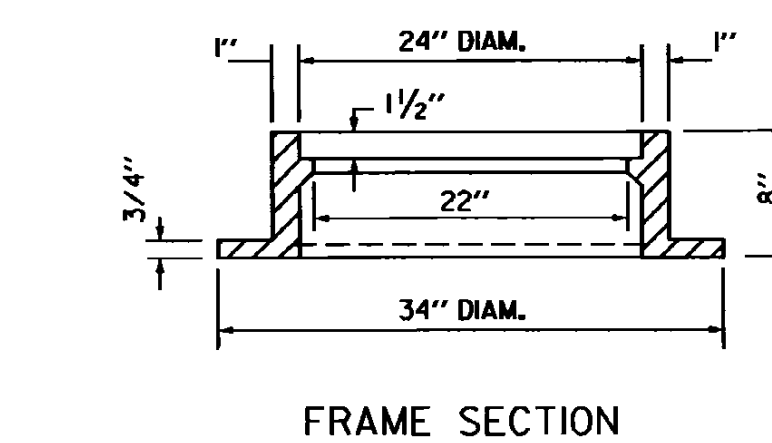
NOTE : PIPE SHALL BE SECURELY BRACED VERTICALLY AND HORIZONTALLY TO PREVENT FLOTATION DURING CONCRETE PLACEMENT.



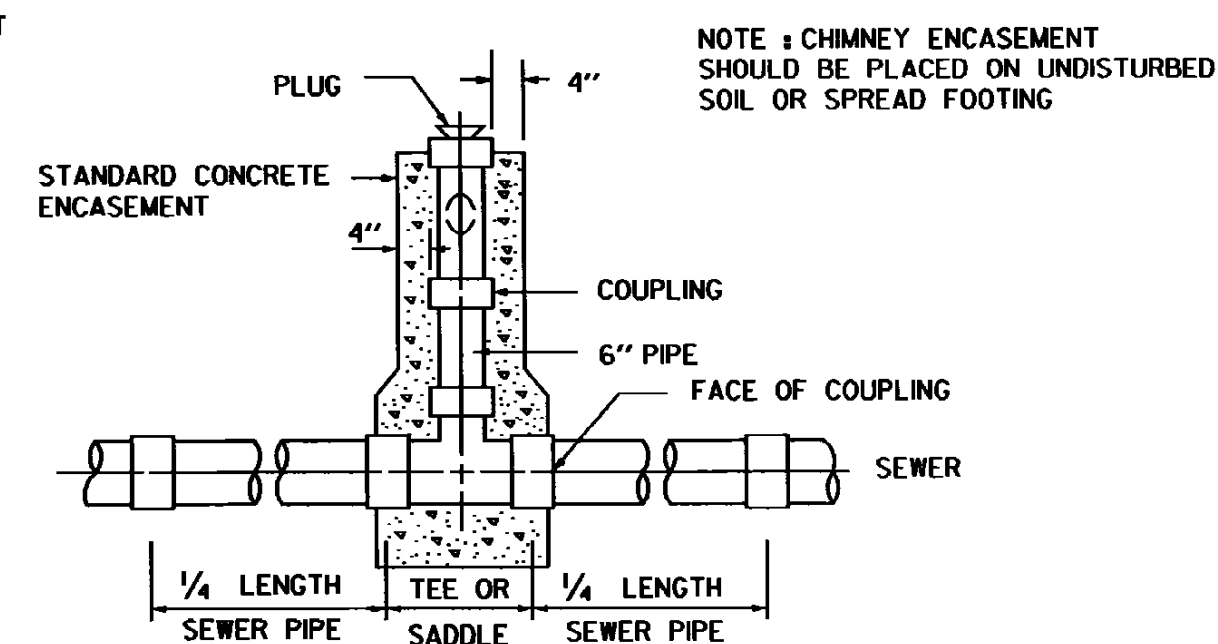
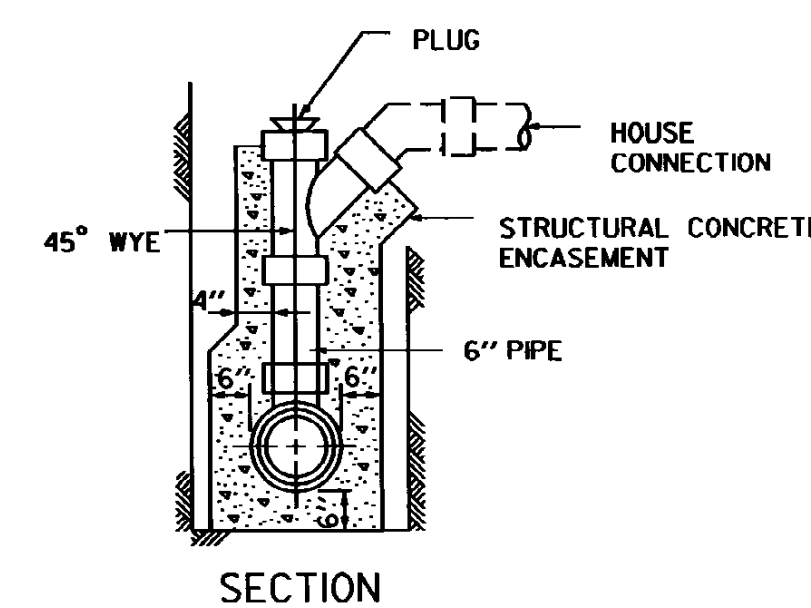
* - INDIVIDUAL METAL RUNGS SHALL HAVE A MINIMUM DIMENSION OF 1" OR SHALL BE PAINTED OR OTHERWISE TREATED TO RESIST CORROSION AND RUSTING.



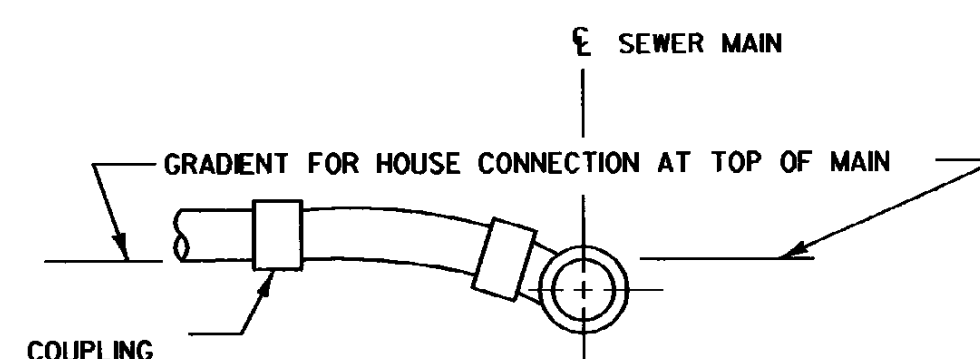
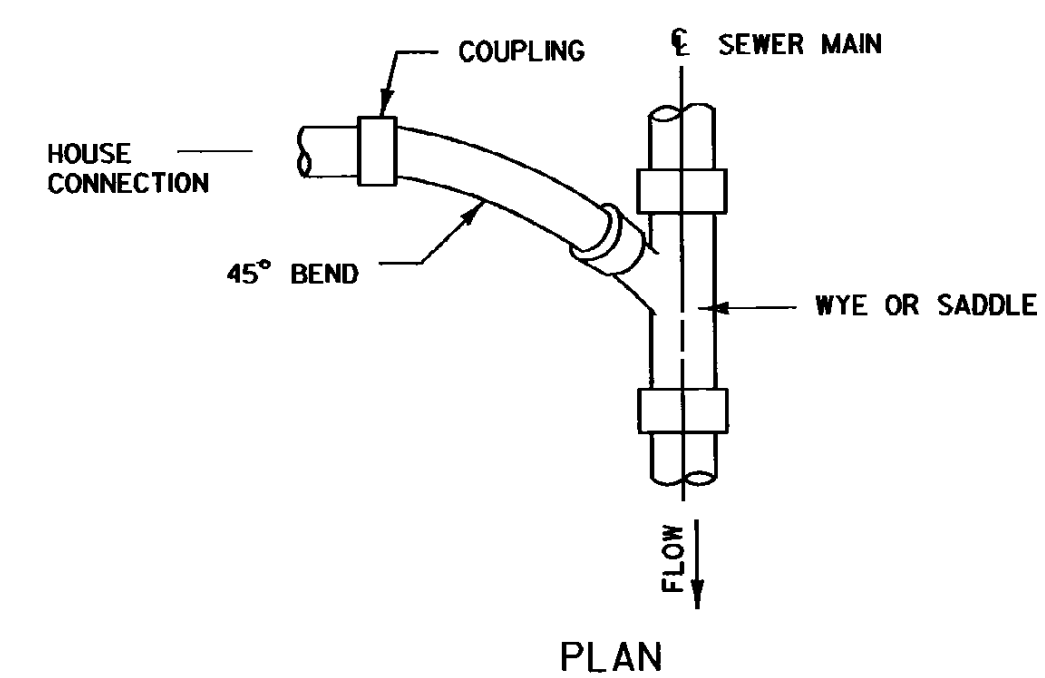
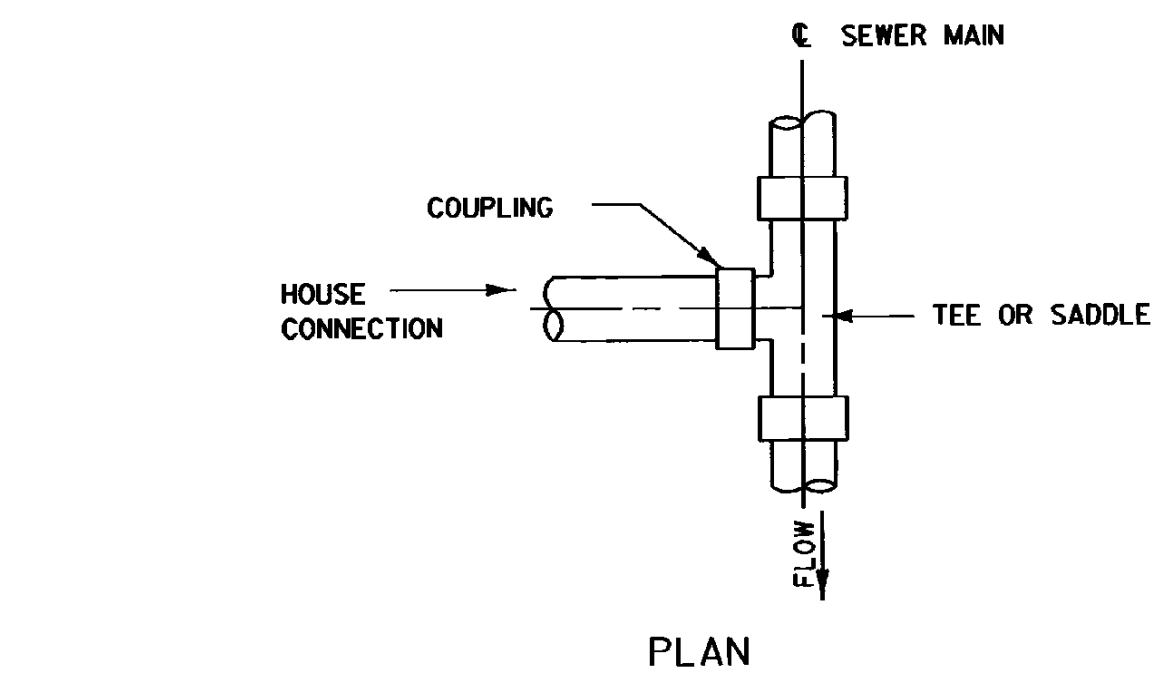
PRECAST REINFORCED CONCRETE SANITARY SEWER MANHOLE



MANHOLE FRAME AND COVER DETAIL



CHIMNEY DETAILS FOR
HOUSE SEWER CONNECTION



TYPICAL SEWER CONNECTION

REVISIONS AND CORRECTIONS

OCT. 1, 1976 - ORIGINAL APPROVAL

MAR. 23, 1994 - ADDED STEP DETAILS

JUNE 1, 1994 - REISSUED, WITHOUT CHANGE, UNDER NEW SIGNATURES.

MAR. 10, 1995 - REISSUED, WITHOUT CHANGE, UNDER NEW SIGNATURES.

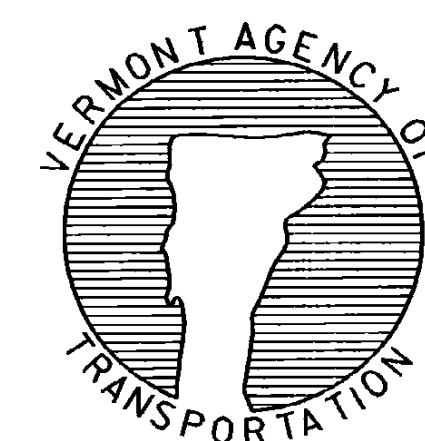
APPROVED

APPROVED FOR THIS PROJECT AND/OR DESIGN IMPLEMENTATION. FHWA FINAL APPROVAL PENDING.

Gordon B. MacArthur
DIRECTOR OF ENGINEERING

Thomas R. Rapp
UTILITIES ENGINEER

SANITARY SEWER SYSTEMS



STANDARD D-22