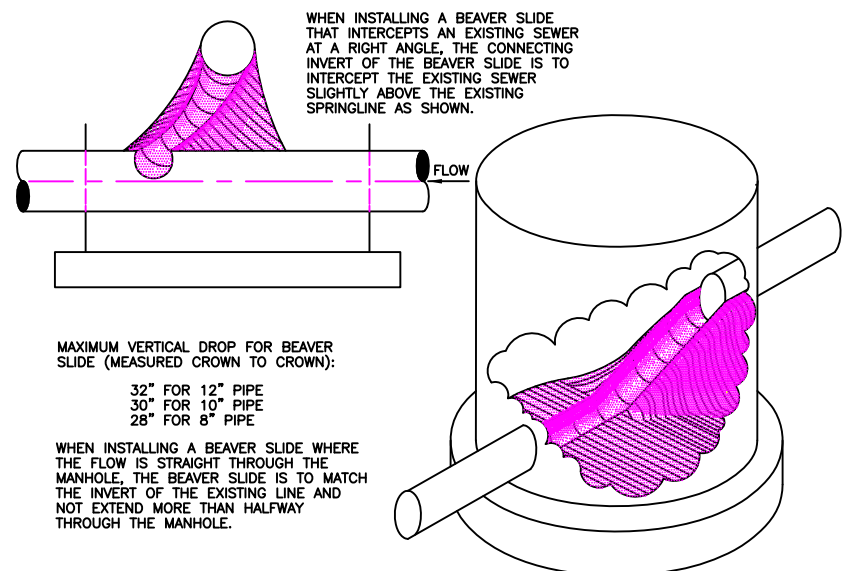


THROUGH SECTION
TYPICAL PLAN SECTIONS

SECTION	MANHOLE SIZE	
	48"	72"
FLAT BASE	0.39 SQ IN/FT EACH WAY	0.39 SQ IN/FT EACH WAY
RISER SECTION*	0.12 SQ IN/FT	0.18 SQ IN/FT
CONE SECTION*	0.12 SQ IN/FT	-----
ADJUSTING RING	0.024 SQ IN	0.024 SQ IN

*CIRCUMFERENTIAL REINFORCING
ALL AREAS ARE MINIMUM CROSS-SECTIONAL AREA OF REINFORCEMENT PER FOOT OF SECTION.
MANHOLE REINFORCEMENT SCHEDULE
(SHALL COMPLY WITH AASHTO M-199-ASTM 478)



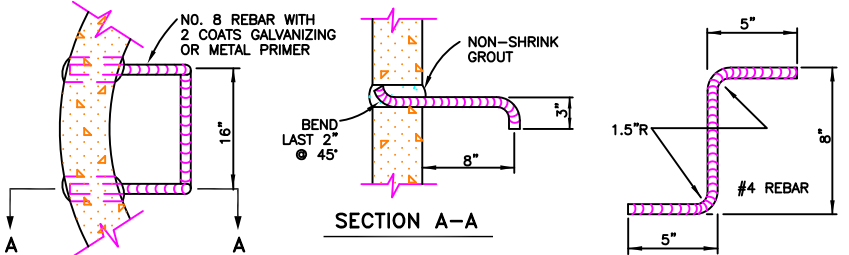
WHEN INSTALLING A BEAVER SLIDE THAT INTERCEPTS AN EXISTING SEWER AT A RIGHT ANGLE, THE CONNECTING INVERT OF THE BEAVER SLIDE IS TO INTERCEPT THE EXISTING SEWER SLIGHTLY ABOVE THE EXISTING SPRINGLINE AS SHOWN.

MAXIMUM VERTICAL DROP FOR BEAVER SLIDE (MEASURED CROWN TO CROWN):

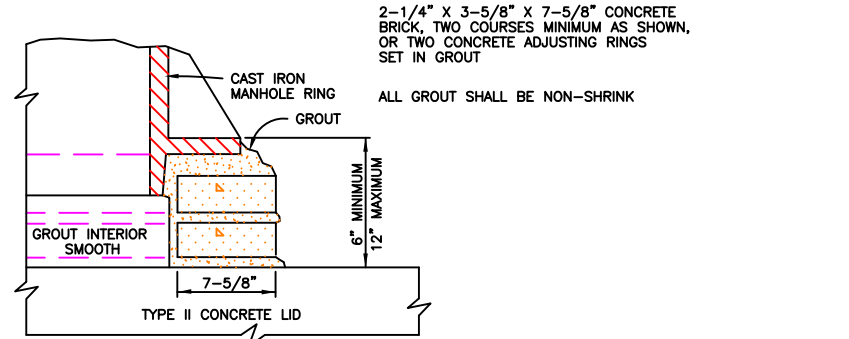
- 32" FOR 12" PIPE
- 30" FOR 10" PIPE
- 28" FOR 8" PIPE

WHEN INSTALLING A BEAVER SLIDE WHERE THE FLOW IS STRAIGHT THROUGH THE MANHOLE, THE BEAVER SLIDE IS TO MATCH THE INVERT OF THE EXISTING LINE AND NOT EXTEND MORE THAN HALFWAY THROUGH THE MANHOLE.

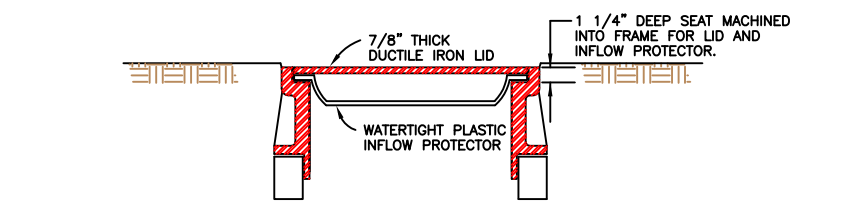
B TYPICAL BEAVER SLIDES
NOT TO SCALE



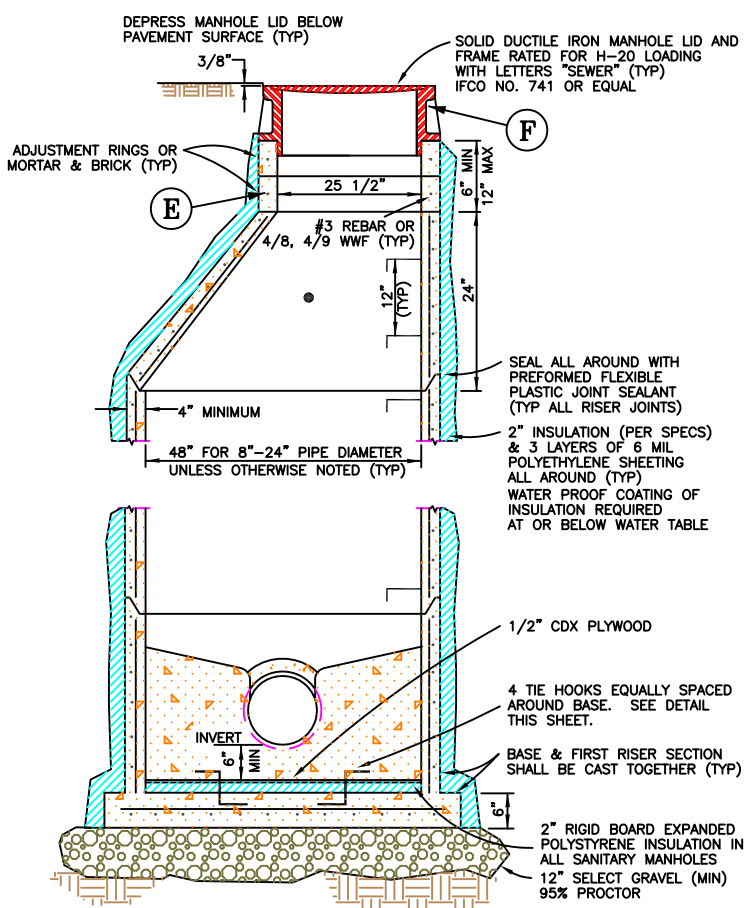
C MANHOLE STEP
NOT TO SCALE



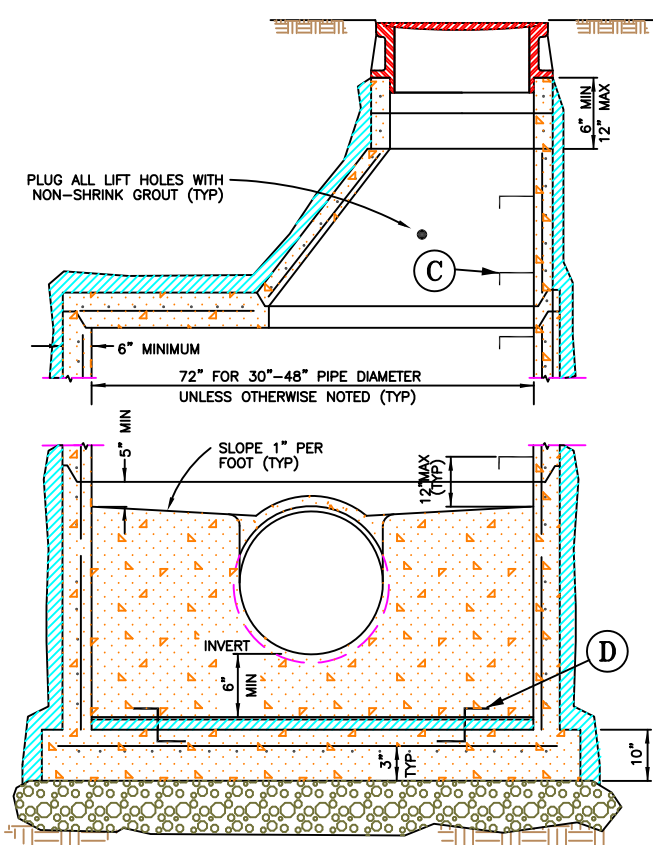
E GROUT AND CONCRETE BRICK ALTERNATIVE
NOT TO SCALE



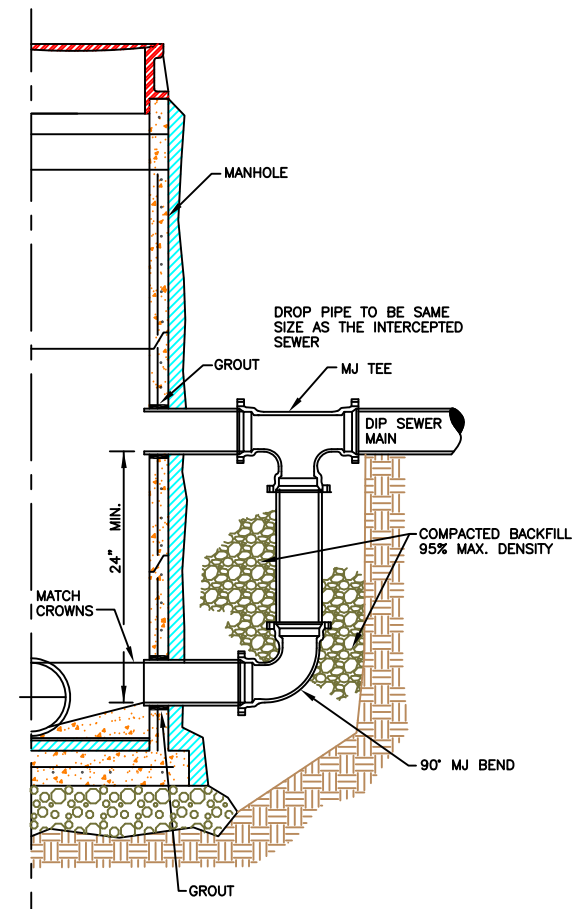
F LID, FRAME & MANHOLE INSERT
NOT TO SCALE



48" TYPE I

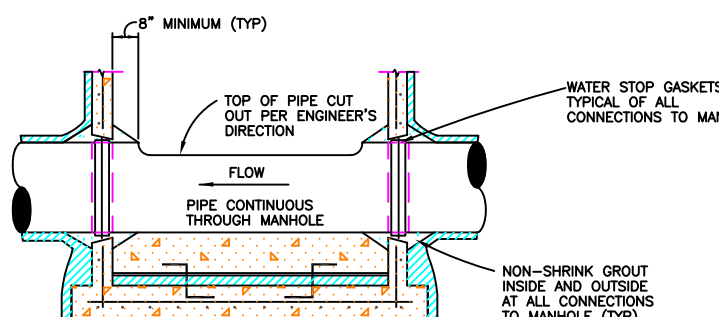


72" TYPE I

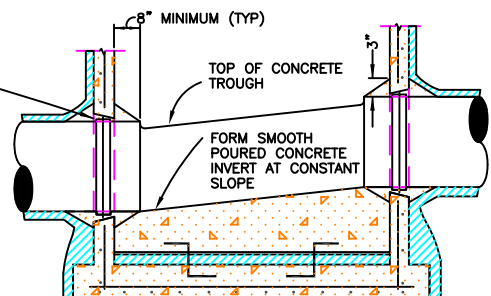


DROP CONNECTION MANHOLE DETAIL

NOTE: DROP MANHOLES TO BE USED WHEN INCOMING LINE INVERT IS GREATER THAN 24" ABOVE MANHOLE INVERT



TYPICAL THROUGH SECTION



TYPICAL DROP SECTION

A TYPICAL MANHOLES
NOT TO SCALE

2/28/07	DROP MH	MJB
7/22/98		
DATE	REVISION	BY

PLAN SCALE: NOT TO SCALE
PLOT SCALE: 1=1

DESIGNED	APPROVED
DRAWN NBB	
CHECKED MJB	USA ENGINEER
DATE FEB 98	FILE: STANDARD DETAILS SS1

