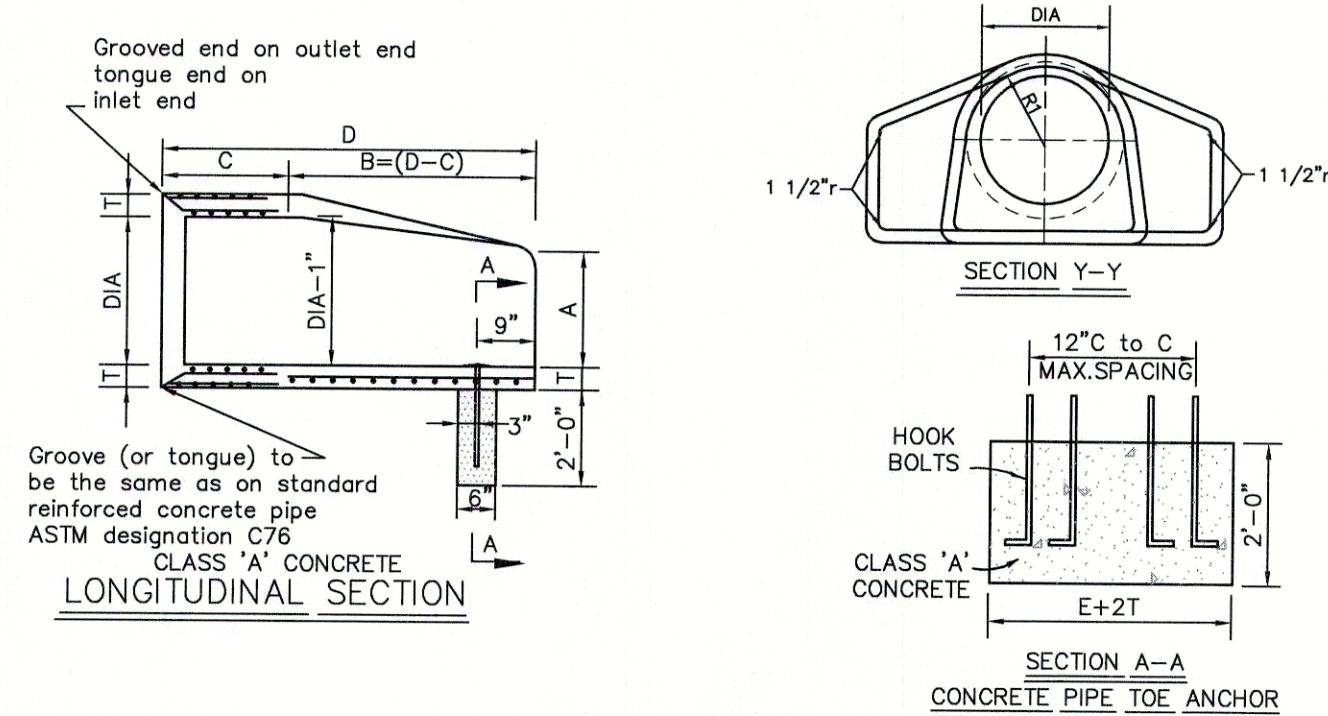
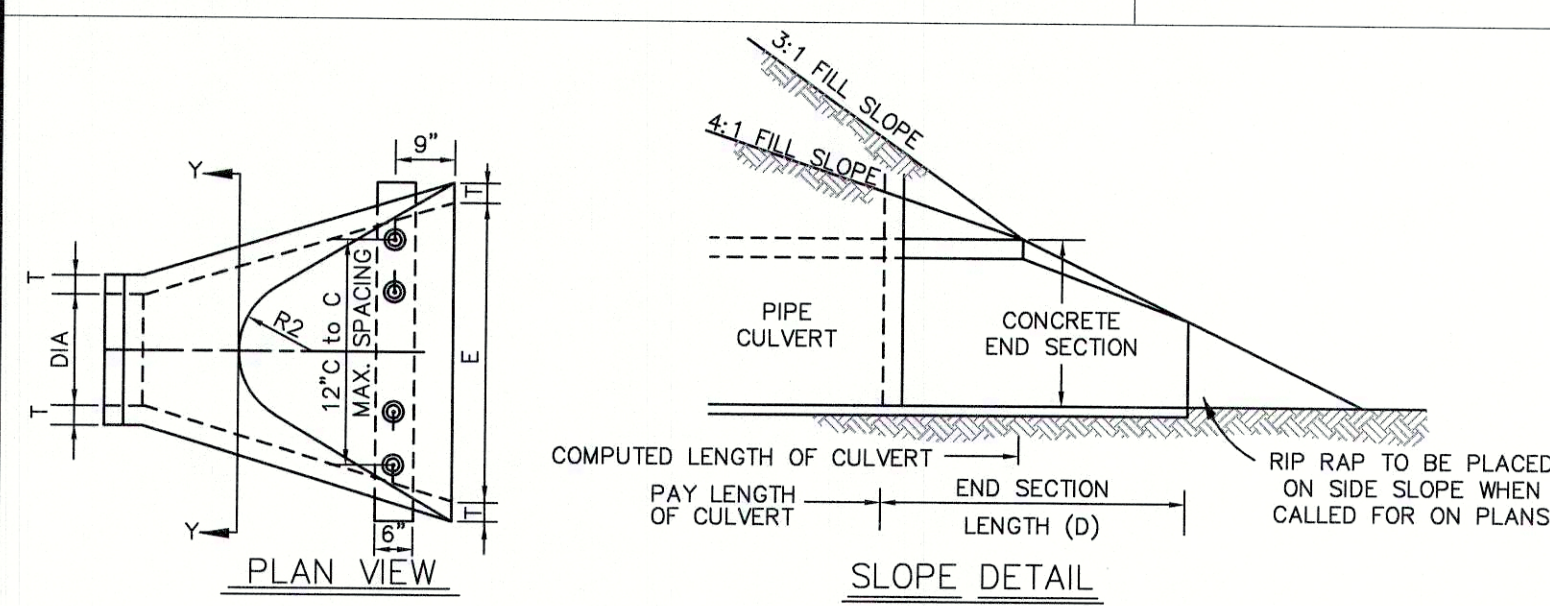
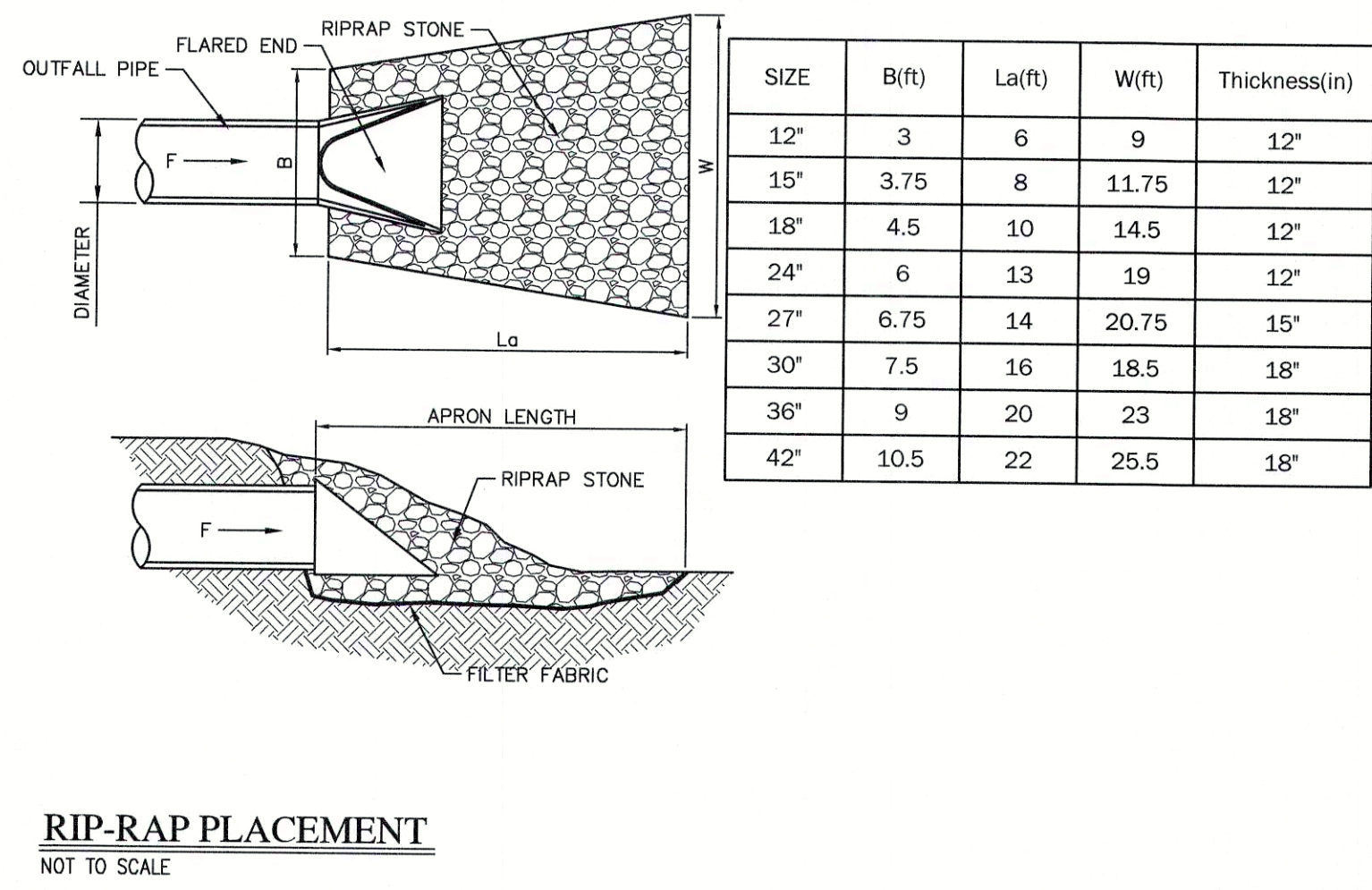
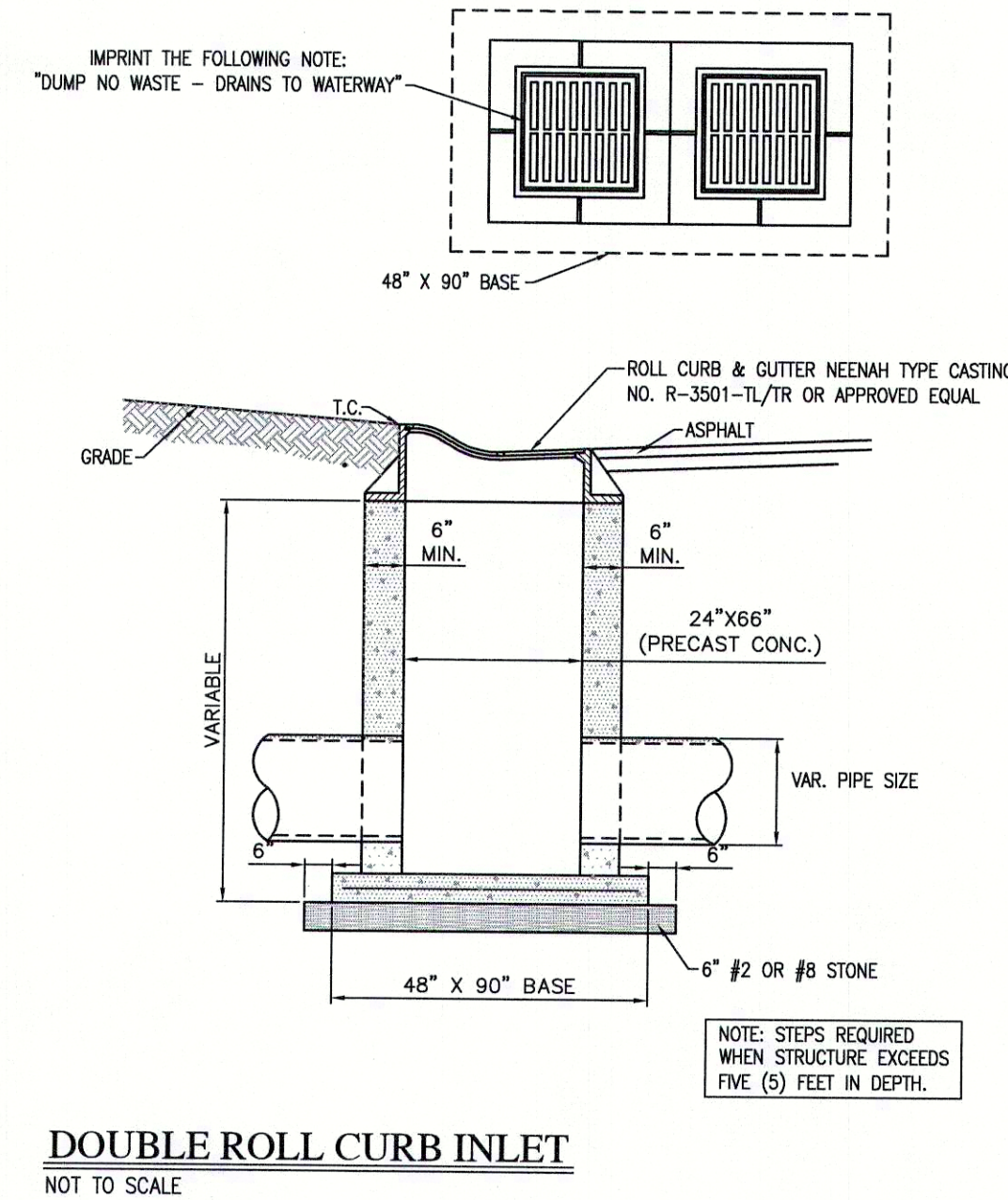




DIMENSIONS OF CONCRETE END SECTIONS FOR ROUND PIPE									
DIA	T (MIN)	A*	C*	D*	E*	K	R ₁	R ₂	APPROX. WEIGHT
12"	2"	5"	4'-3"	6'-2"	2'-0"	1.3	10 1/8"	9"	800
15"	2 1/4"	7"	4'-0"	6'-3"	2'-6"	1.5	12 1/2"	11"	1,100
18"	2 1/2"	11"	4'-1"	6'-2"	3'-0"	1.8	15 1/2"	12"	1,300
21"	2 3/4"	11"	3'-6"	6'-3"	3'-6"	2.1	16 1/8"	13"	1,500
24"	3"	1'-0"	2'-8"	6'-3"	4'-0"	2.3	16 3/16"	14"	1,800
27"	3 1/4"	1'-1"	2'-5"	6'-3"	4'-6"	2.6	18 1/2"	14 1/2"	2,100
30"	3 1/2"	1'-2"	1'-10"	6'-3"	5'-0"	2.9	18 3/16"	15"	2,400
33"	3 3/4"	1'-3"	3'-6"	8'-3"	5'-6"	3.1	18 1/2"	17 1/2"	4,100
36"	4"	1'-5"	3'-1"	8'-3"	6'-0"	3.4	23 3/4"	20"	4,200
48"	5"	2'-0"	2'-2"	8'-2"	7'-0"		28 1/8"	22"	6,500
* TOLERANCE +/- 1"									

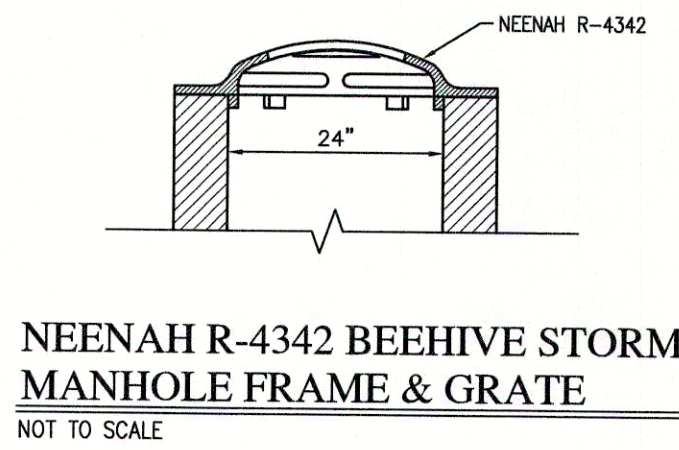
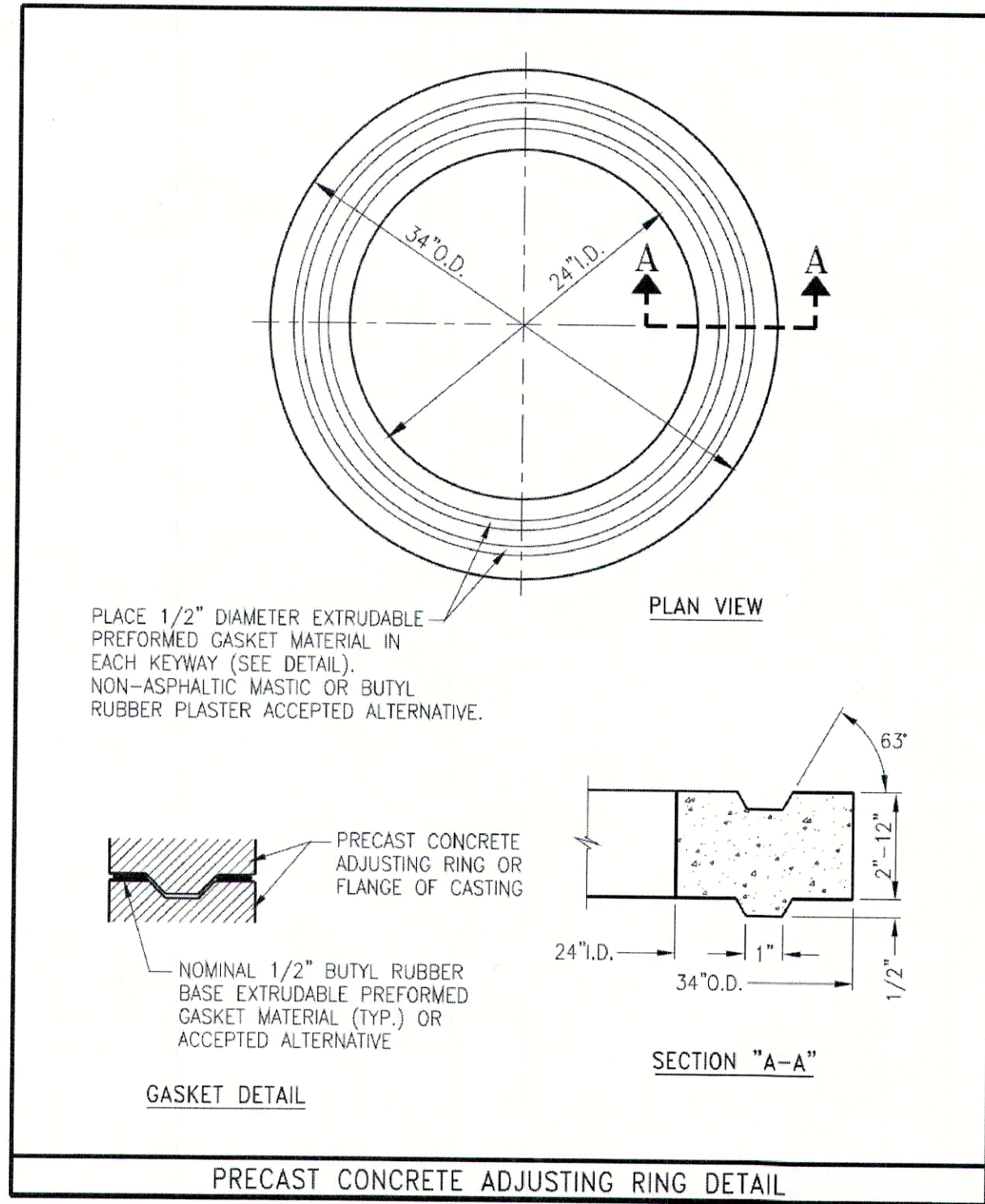
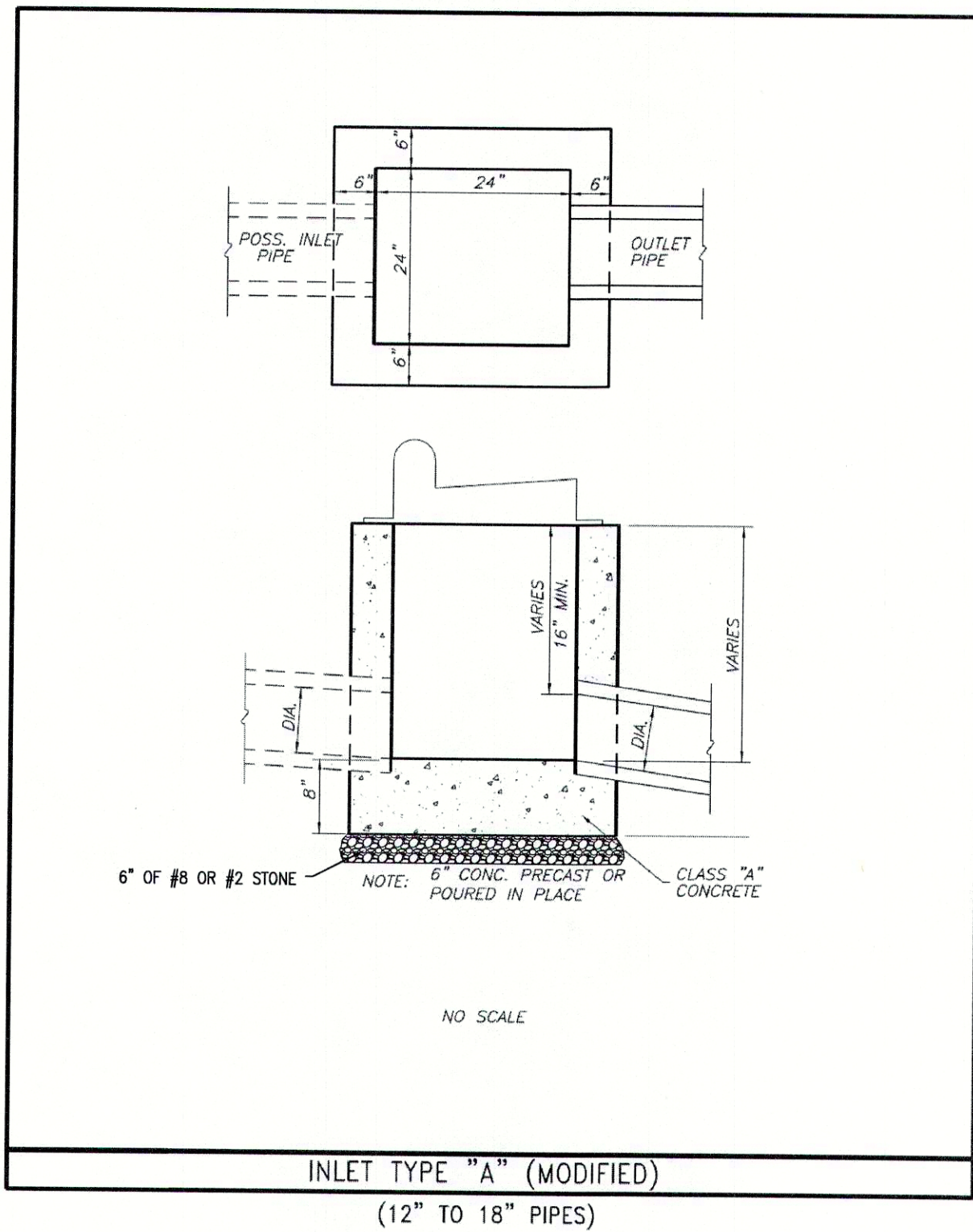
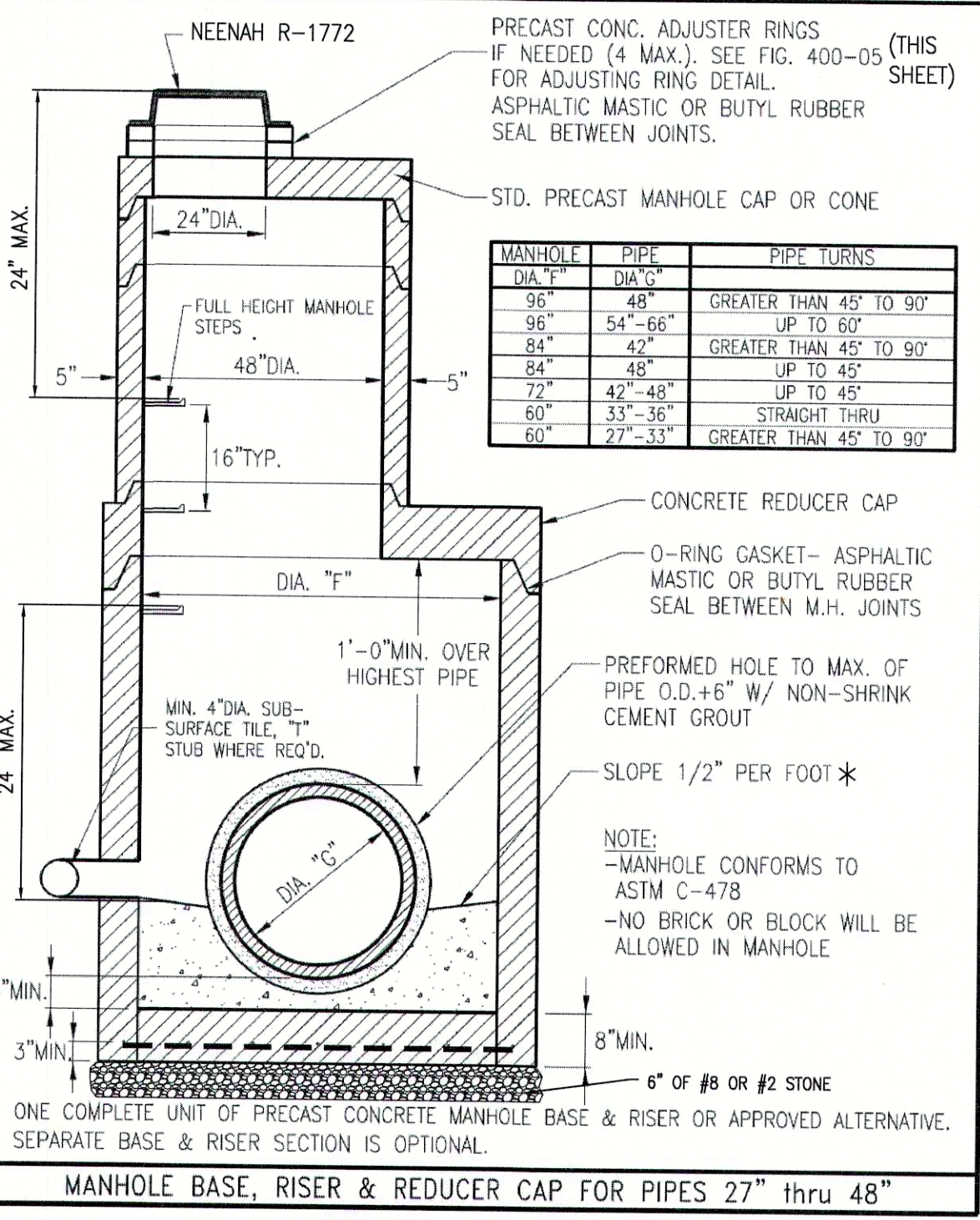
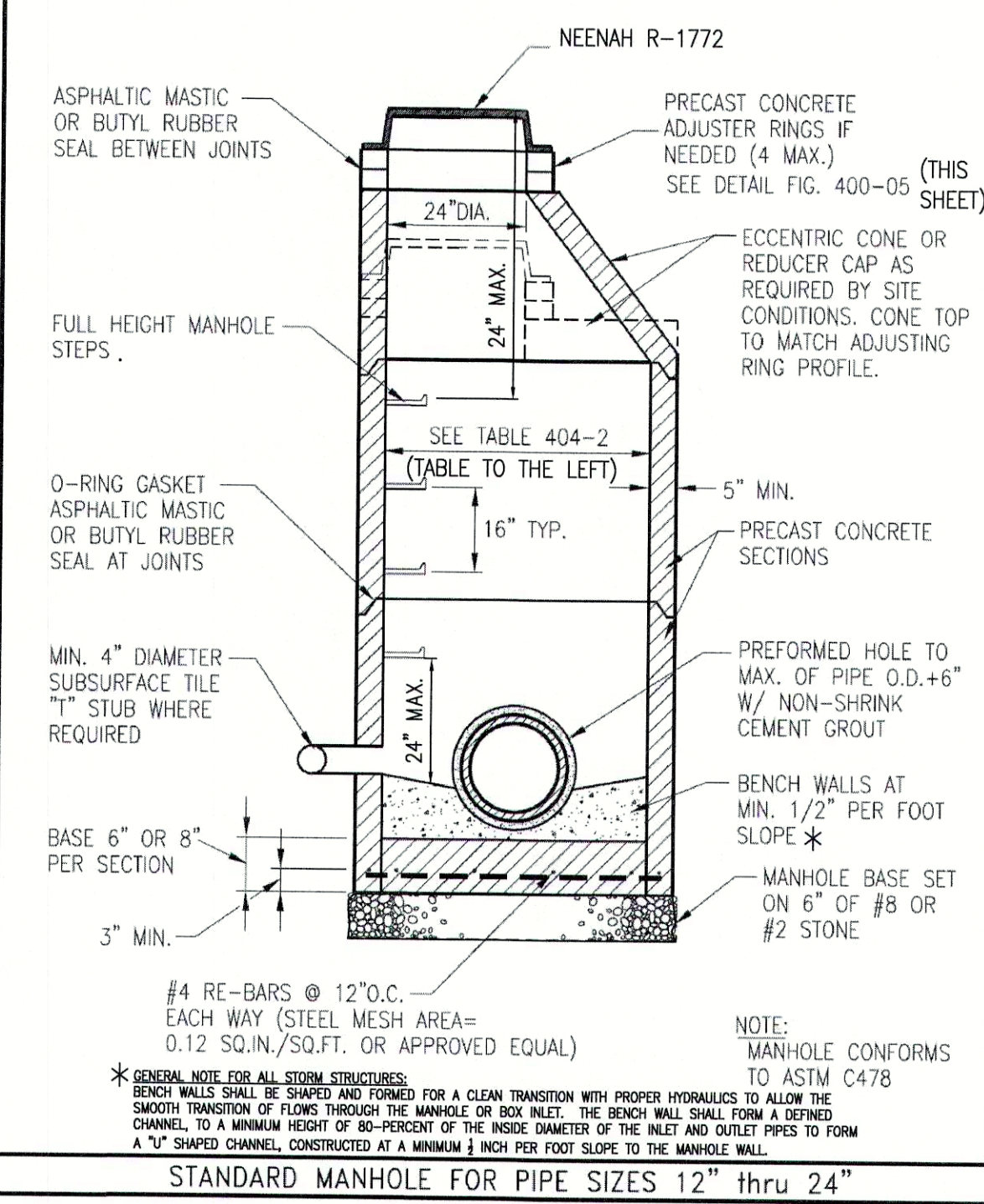
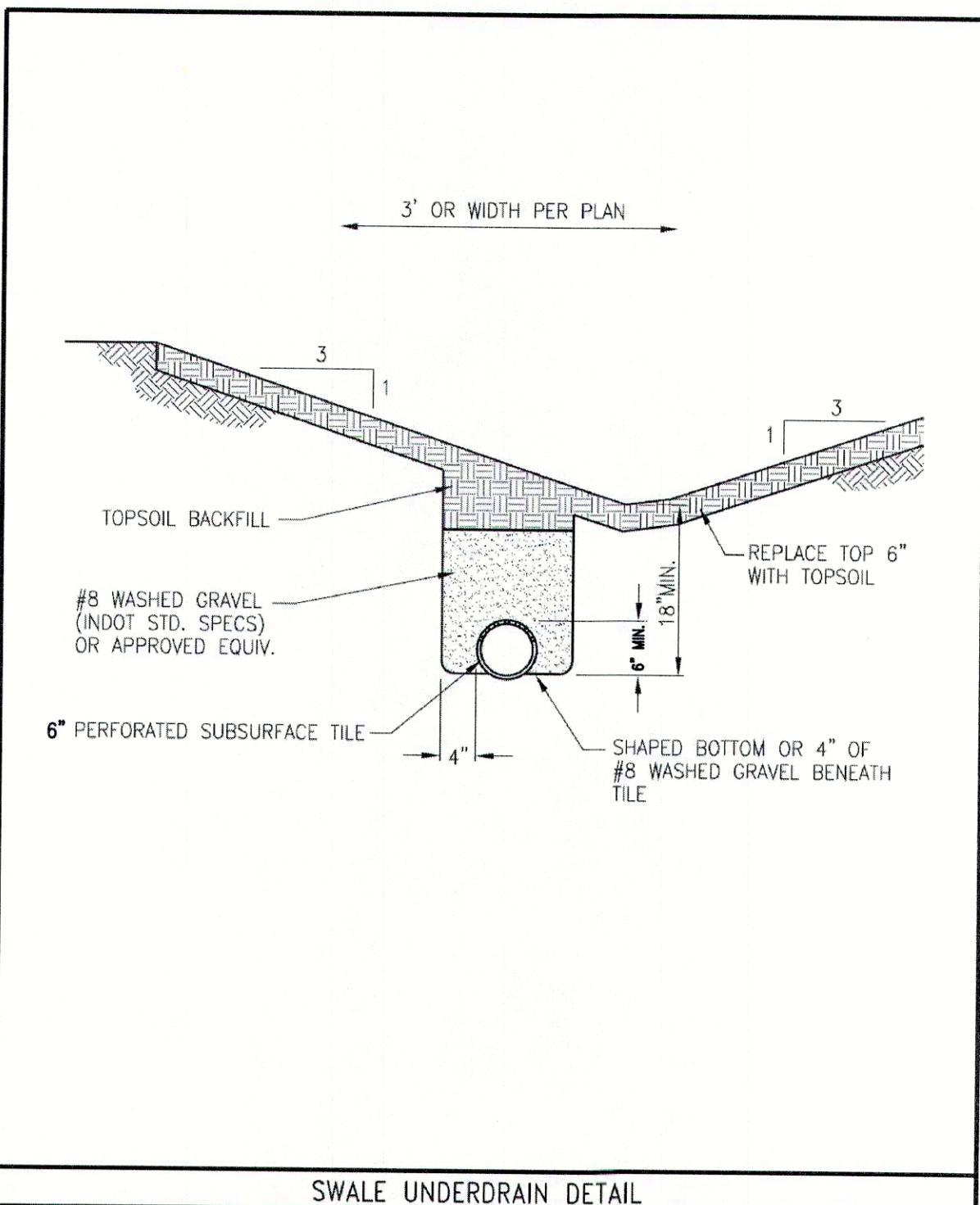


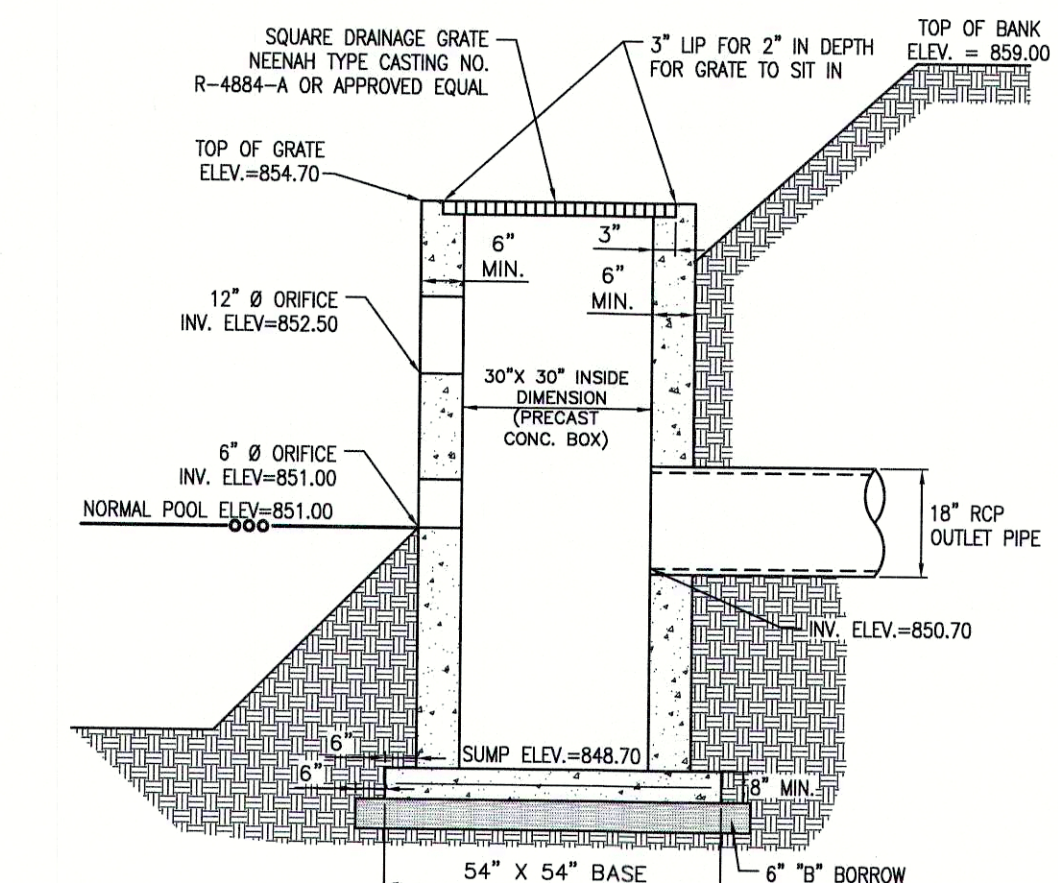
TABLE 404-02: MINIMUM MANHOLE DIAMETERS			
PIPE SIZE	PIPES ENTERING/ EXITING AT 0-45 DEGREES	PIPES ENTERING/ EXITING AT 0-45 DEGREES	
12"-21"	48"	48"	
24"	48"	60"	
27"-30"	60"	60"	
33"-36"	60"	72"	



GENERAL NOTE FOR ALL STORM STRUCTURES:
BENCH WALLS SHALL BE SHAPED AND FORMED FOR A CLEAN TRANSITION WITH PROPER HYDRAULICS TO ALLOW THE SMOOTH TRANSITION OF FLOWS THROUGH THE MANHOLE OR BOX INLET. THE BENCH WALL SHALL FORM A DEFINED CHANNEL, TO A MINIMUM HEIGHT OF 80-PERCENT OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES TO FORM A "U" SHAPED CHANNEL, CONSTRUCTED AT A MINIMUM 1/2 INCH PER FOOT SLOPE TO THE MANHOLE WALL.



GENERAL NOTE FOR ALL STORM STRUCTURES:
BENCH WALLS SHALL BE SHAPED AND FORMED FOR A CLEAN TRANSITION WITH PROPER HYDRAULICS TO ALLOW THE SMOOTH TRANSITION OF FLOWS THROUGH THE MANHOLE OR BOX INLET. THE BENCH WALL SHALL FORM A DEFINED CHANNEL, TO A MINIMUM HEIGHT OF 80-PERCENT OF THE INSIDE DIAMETER OF THE INLET AND OUTLET PIPES TO FORM A "U" SHAPED CHANNEL, CONSTRUCTED AT A MINIMUM 1/2 INCH PER FOOT SLOPE TO THE MANHOLE WALL.



REVISIONS		
DATE	DESCRIPTION	BY

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ENGINEERING
INDIANAPOLIS - TERRE HAUTE
LAFAYETTE - MUNICE - NEW ALBANY
www.hwcengineering.com

MAPLE TRAILS
SECTION 1
CONSTRUCTION DETAILS

SEAN M. DOWNEY
REGISTERED
No. 10200309
STATE OF INDIANA
PROFESSIONAL ENGINEER

DRAWN BY
TD
CHECKED BY
SD
DATE
FEBRUARY 12, 2018
SCALE
AS SHOWN
SHEET

C8.2
CONSTRUCTION DETAILS