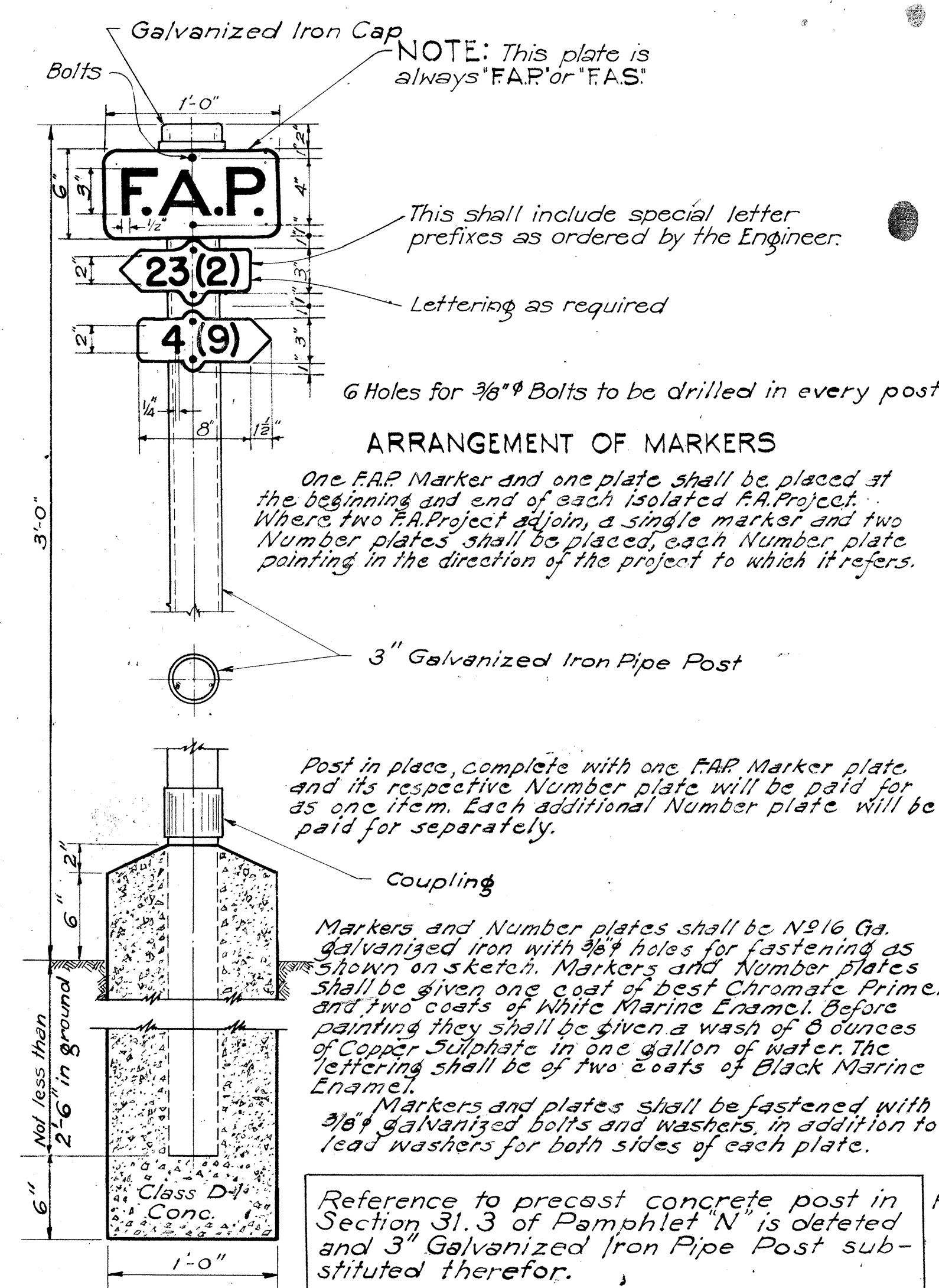
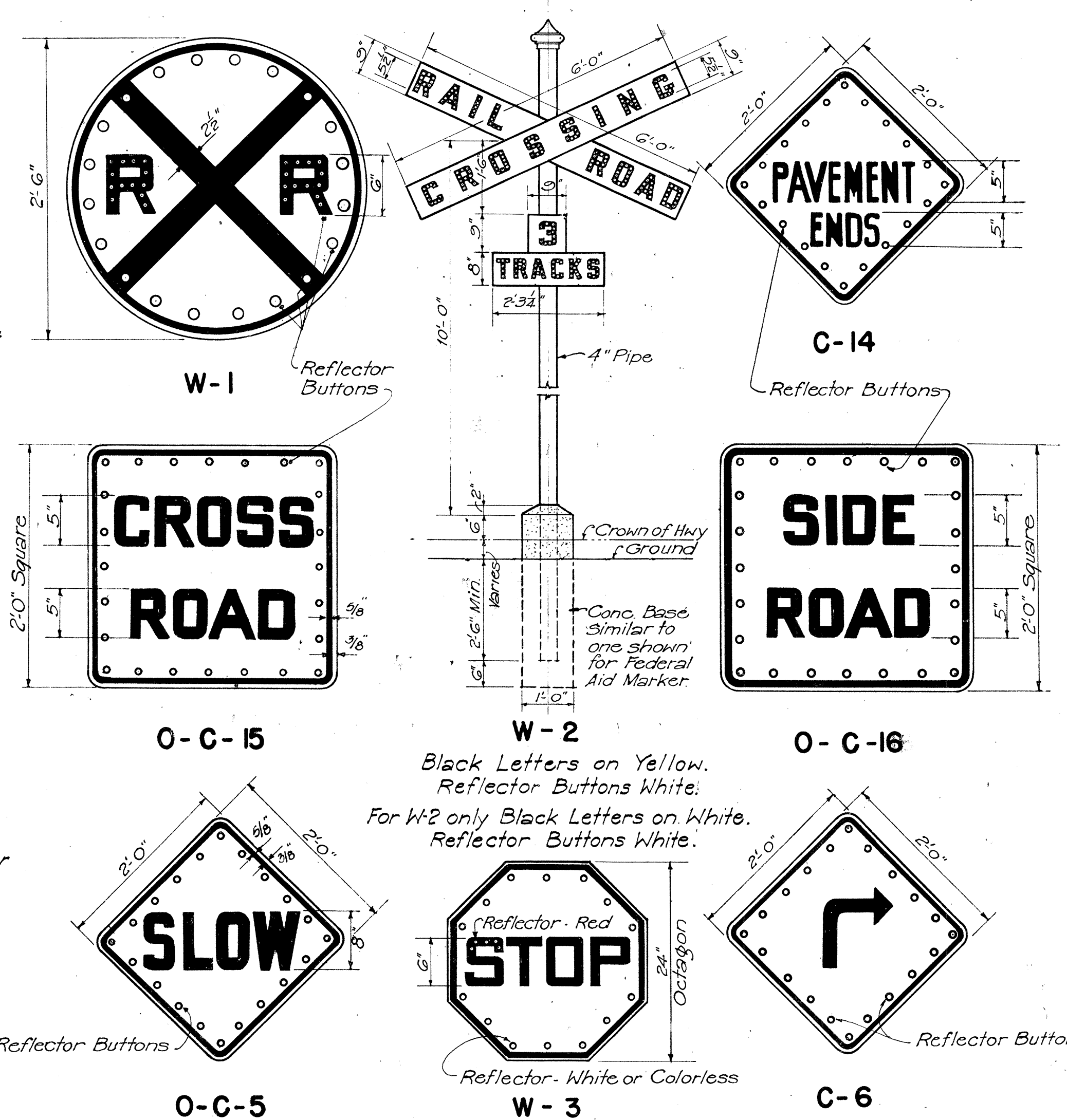


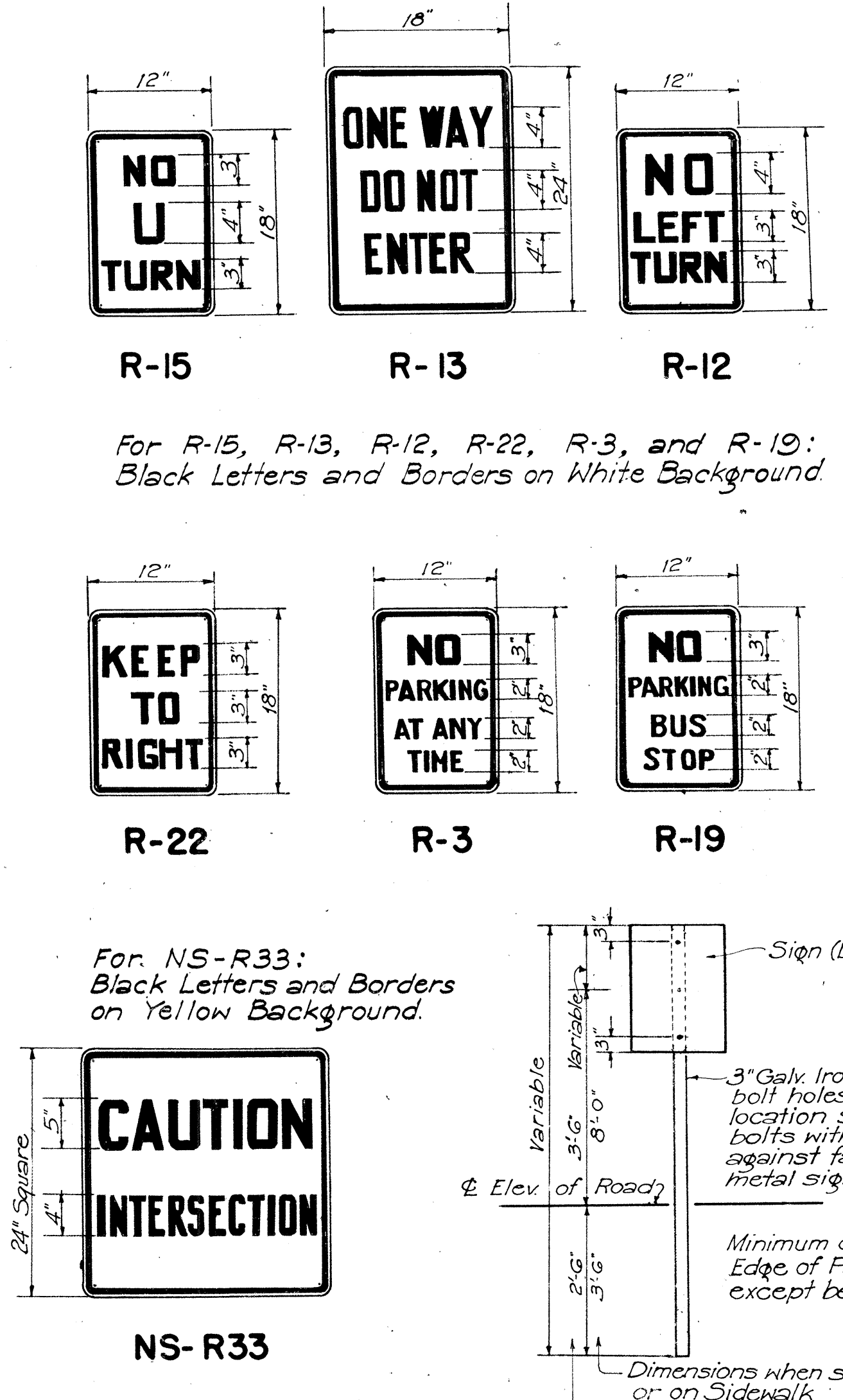


FEDERAL AID MARKER
Scale: 1-1/2" = 1'-0"

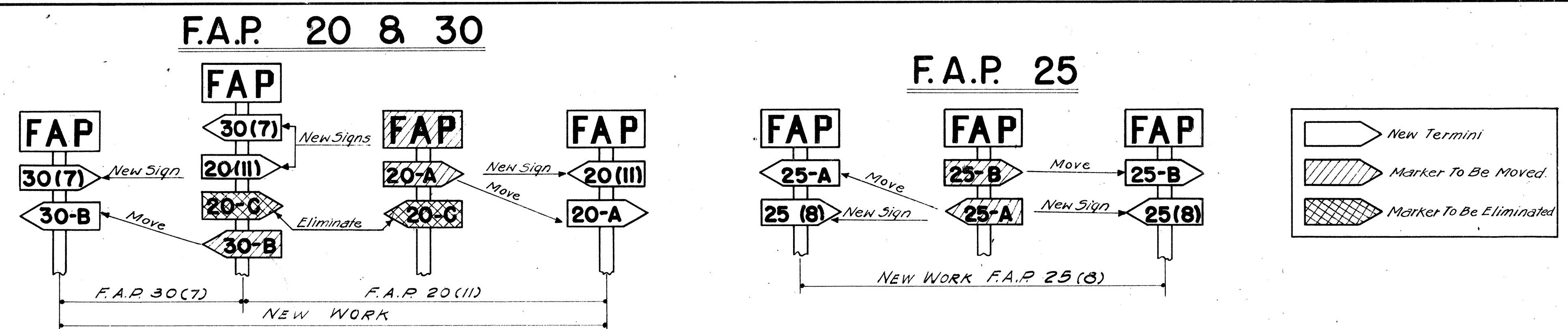
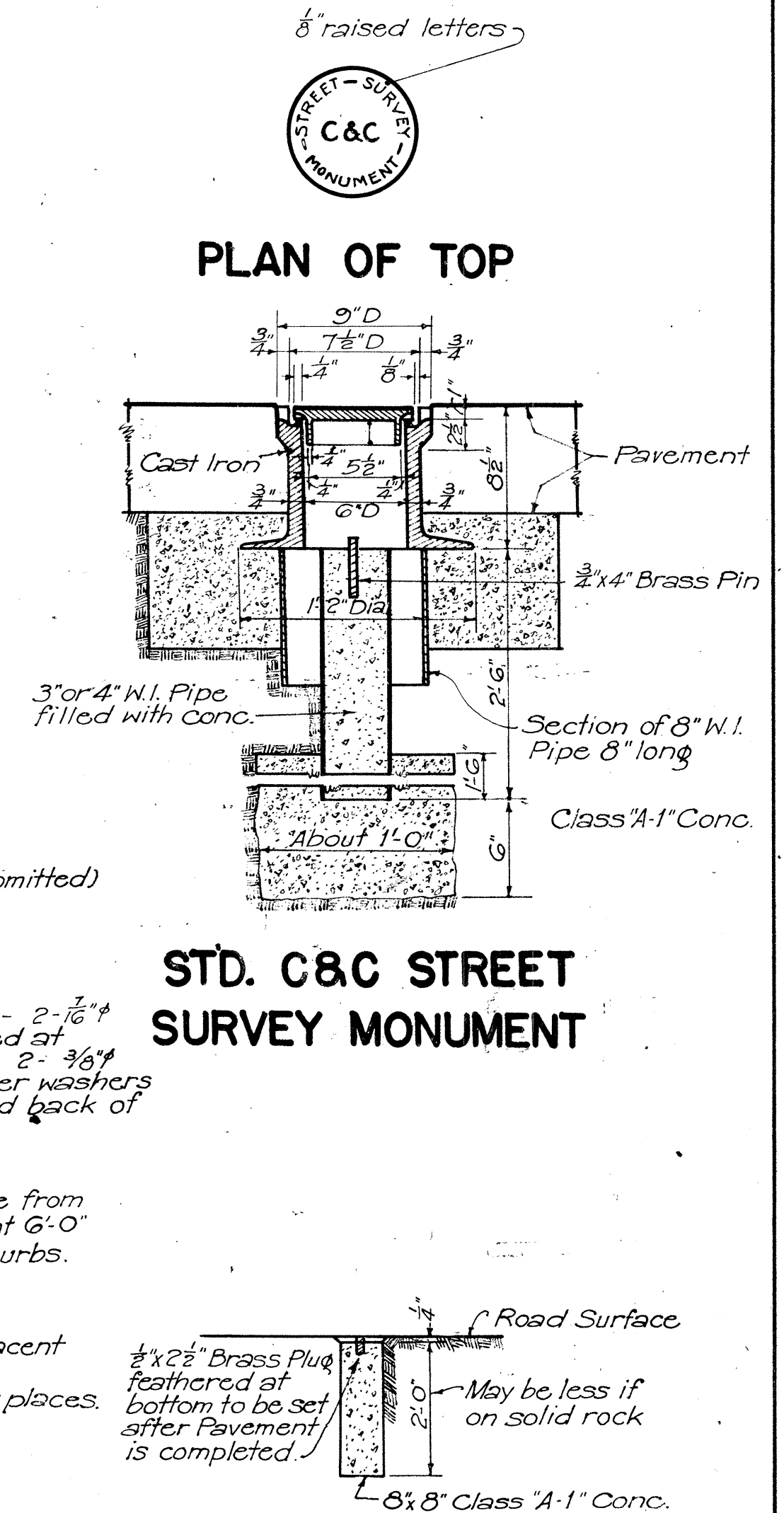


WARNING AND CAUTION SIGNS

NOTE: Each sign, except W-2, is to be mounted on 3" Galv. Pipe in the same manner as detailed for Regulatory Sign.

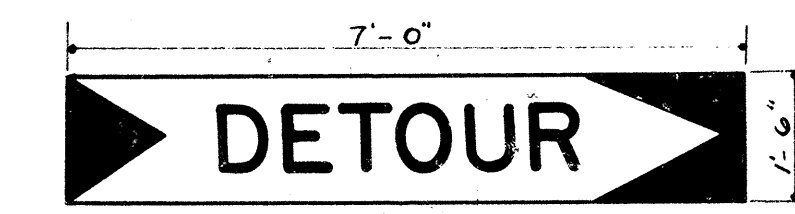


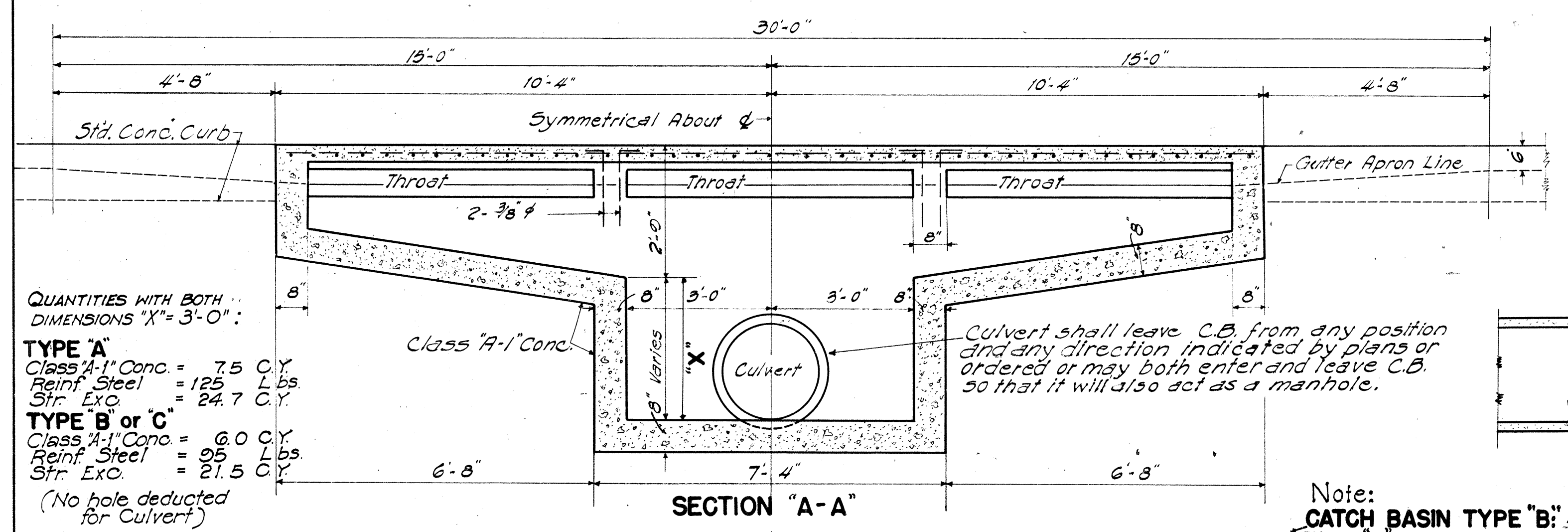
DETAILS OF REGULATORY SIGNS
Scale: 1" = 1'-0"



METHOD OF MARKING F.A. PROJECTS AT OVERLAPS
(USING NUMBER SUFFIX ON NEW WORK)

Note:
Letters to be 12" high and 1/2" thick. Secondary detour and direction signs necessary to be at least 1/2 the above size. Detour signs shall be placed at the location ordered by the Engineer.



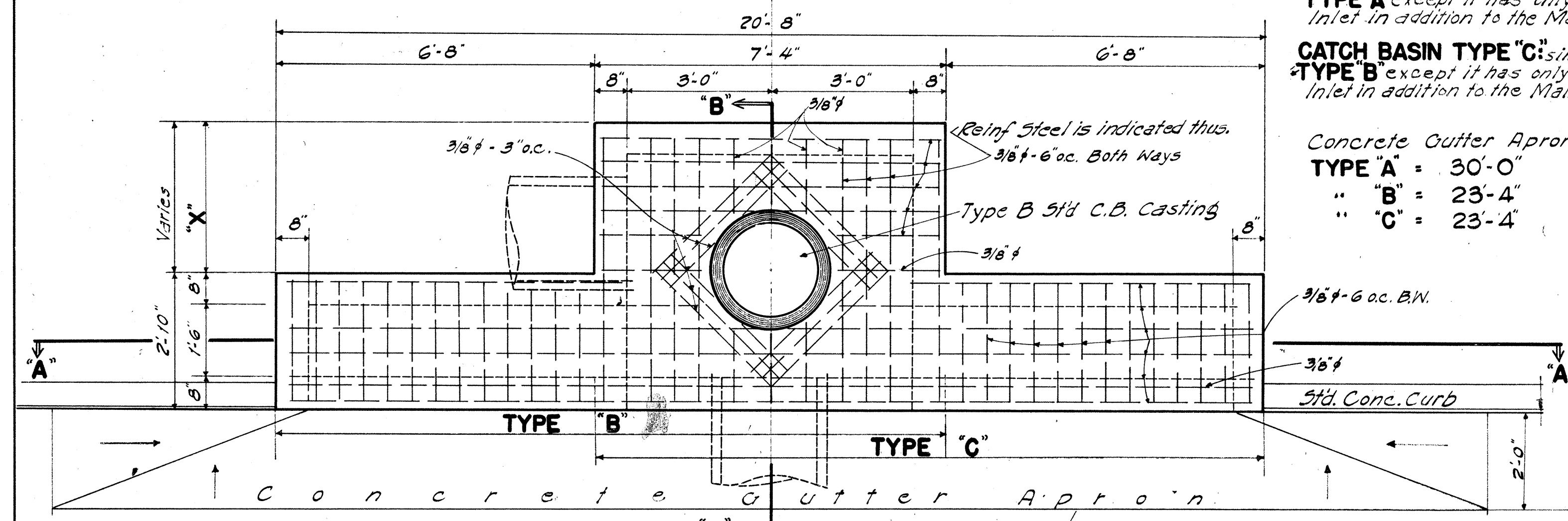


QUANTITIES WITH BOTH DIMENSIONS "X" = 3'-0" :

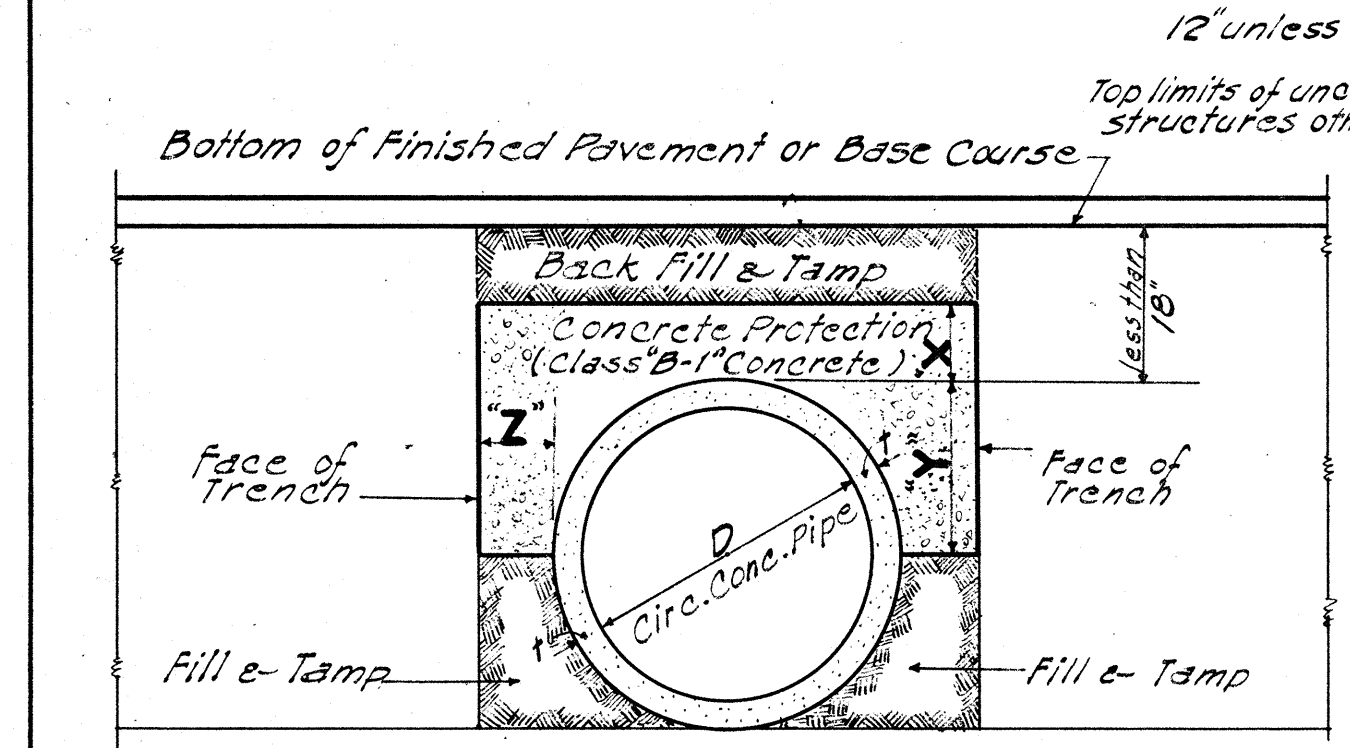
TYPE "A"
 Class 'A-1' Conc. = 7.5 C.Y.
 Reinf. Steel = 125 Lbs.
 Str. Exc. = 24.7 C.Y.

TYPE "B" or "C"
 Class 'A-1' Conc. = 6.0 C.Y.
 Reinf. Steel = 95 Lbs.
 Str. Exc. = 21.5 C.Y.

(No hole deducted for Culvert)



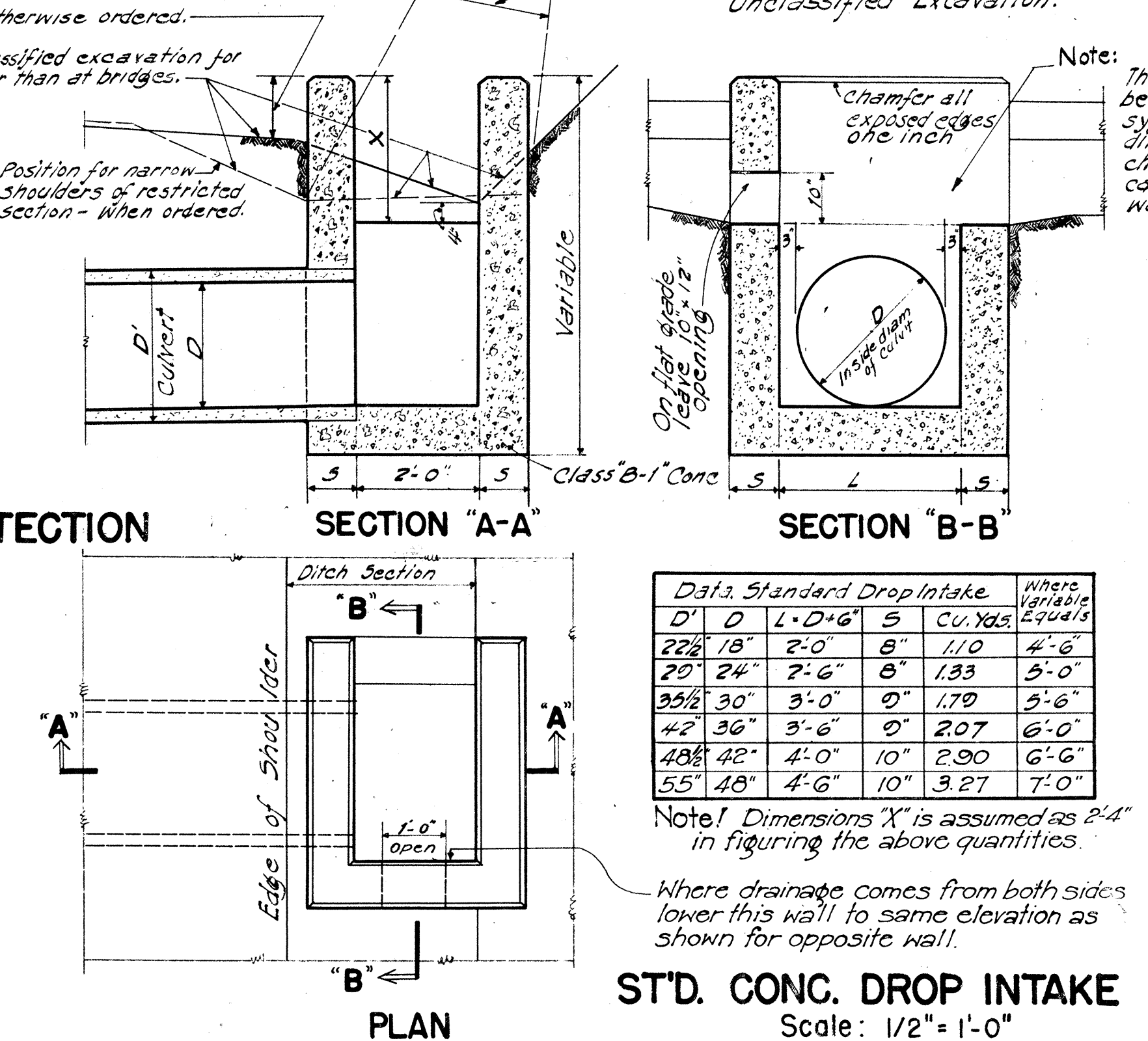
STANDARD CONCRETE CATCHBASIN
 Scale: 1/2" = 1'-0"



TYP. SECT. OF CULVERT WITH CONG CRO

(To be used when cover is less than 18")

DATA: CONCRETE PROTECTION OVER CULVERTS		
X	Y	Z
6" for 18" D	$\frac{D}{2} + T$	Z must be from pipe to face of trench
7" " 24" D		Minimum = X Maximum pay quantity will be be Z = 12"
8" " 30" D		
9" " 36" D		
10" " 42" D		
11" " 48" D		
12" " 64" D		

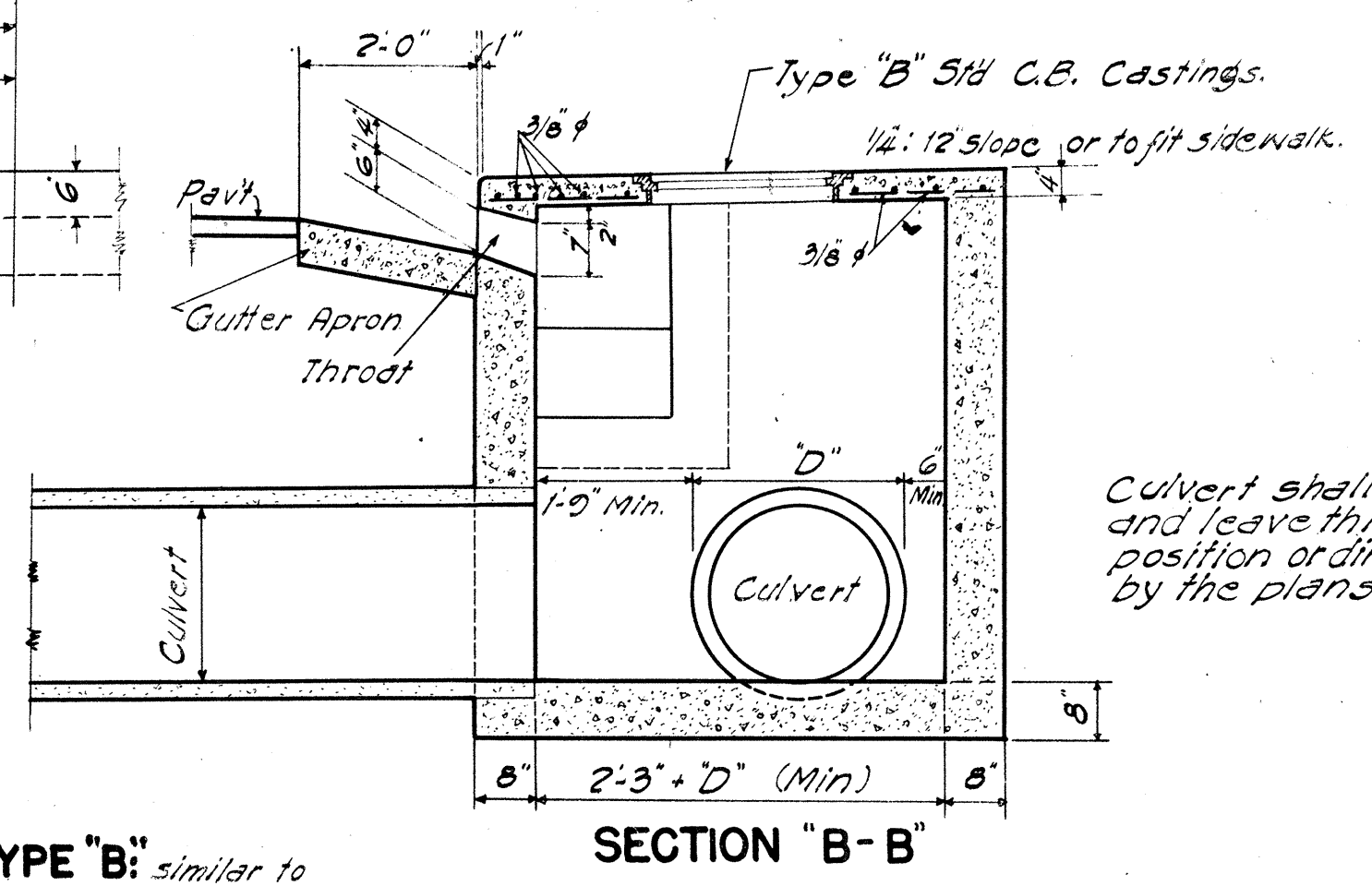


ST'D. CONG. DROP INTAKE
 Scale: 1/2" = 1'-0"

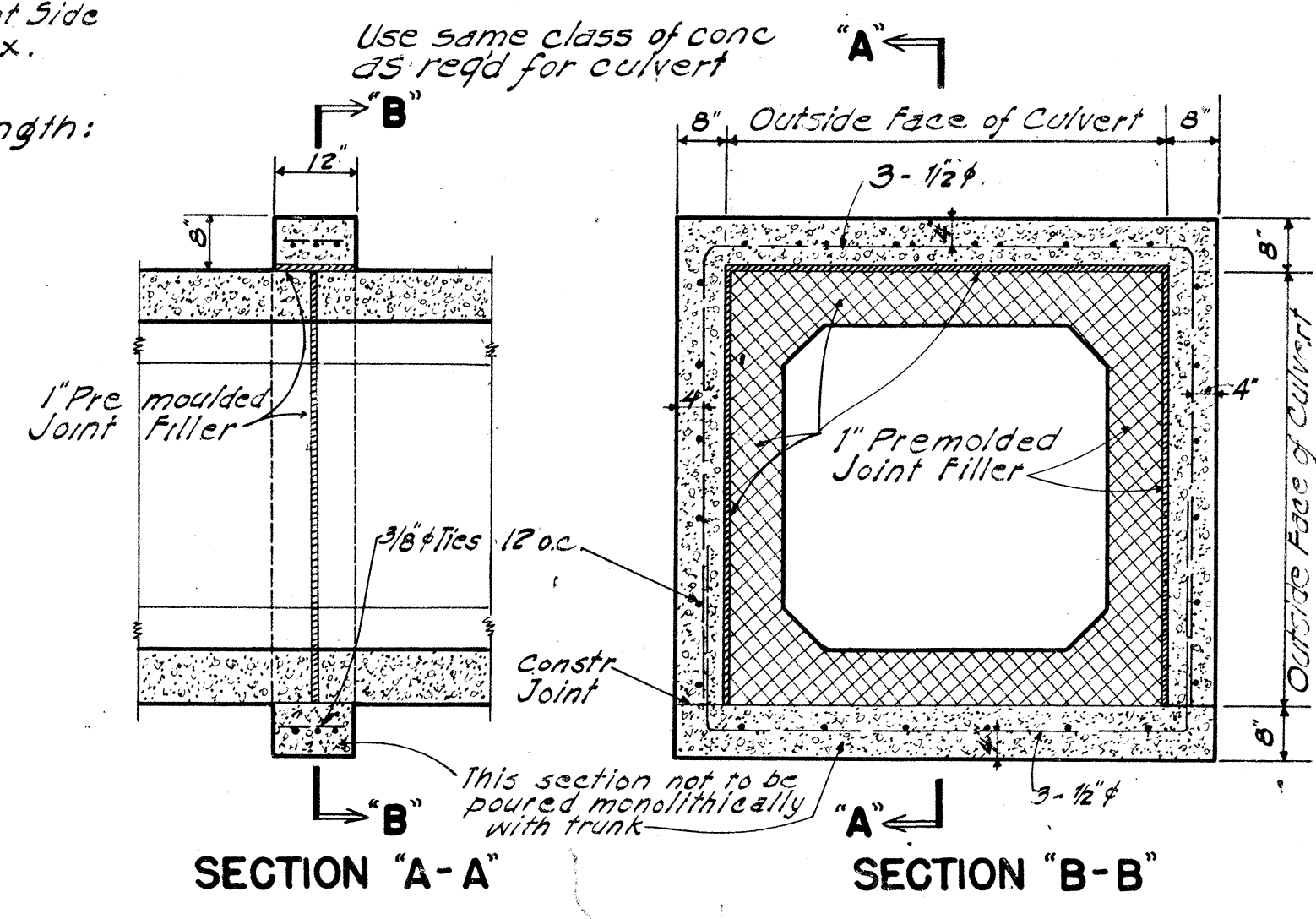
Note:
CATCH BASIN TYPE "B": similar to TYPE "A" except it has only Left Side Inlet in addition to the Main Box.

CATCH BASIN TYPE "C": similar to TYPE "B" except it has only Right Side Inlet in addition to the Main Box.

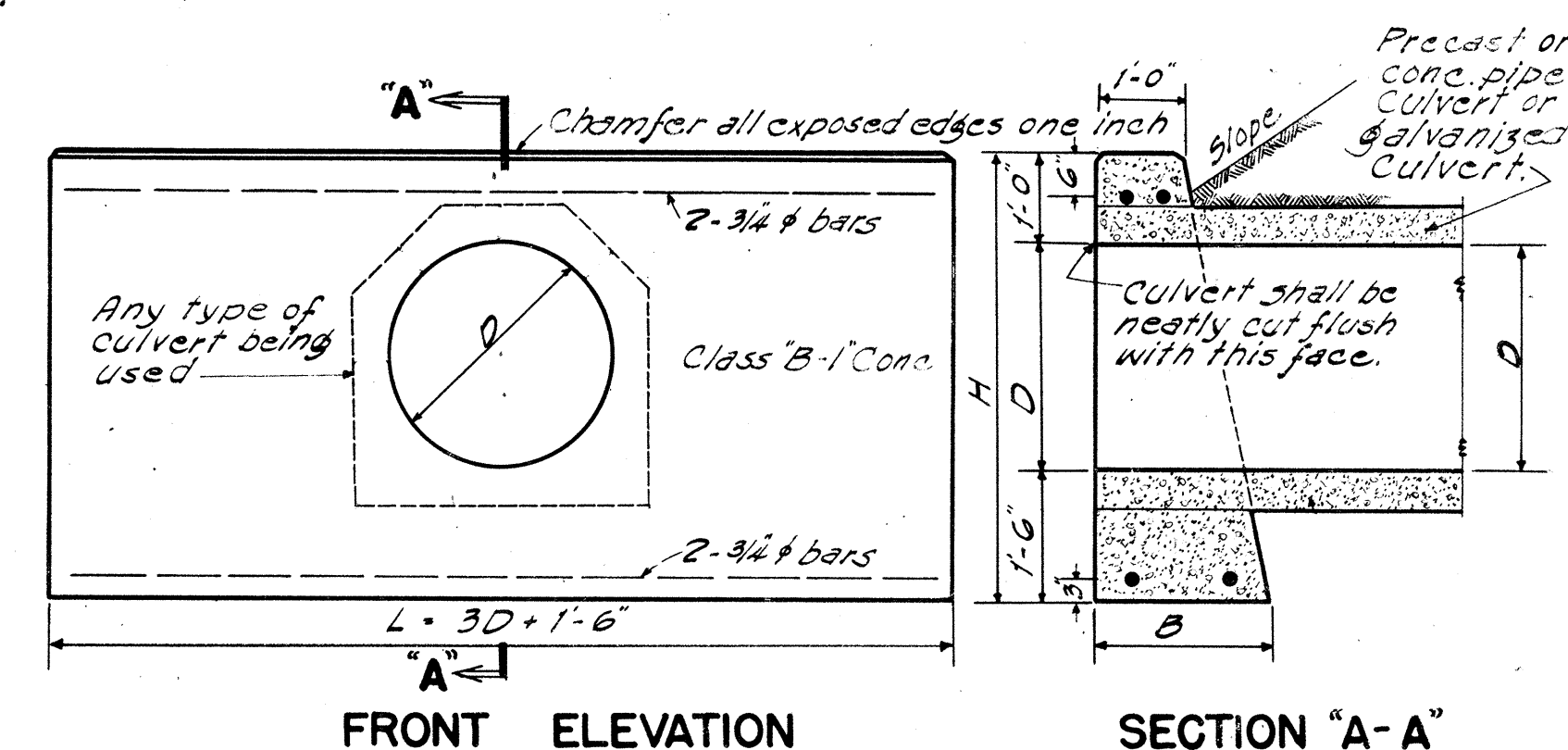
Concrete Gutter Apron Length:
 TYPE "A" = 30'-0"
 " " "B" = 23'-4"
 " " "C" = 23'-4"



SECTION "B-B"

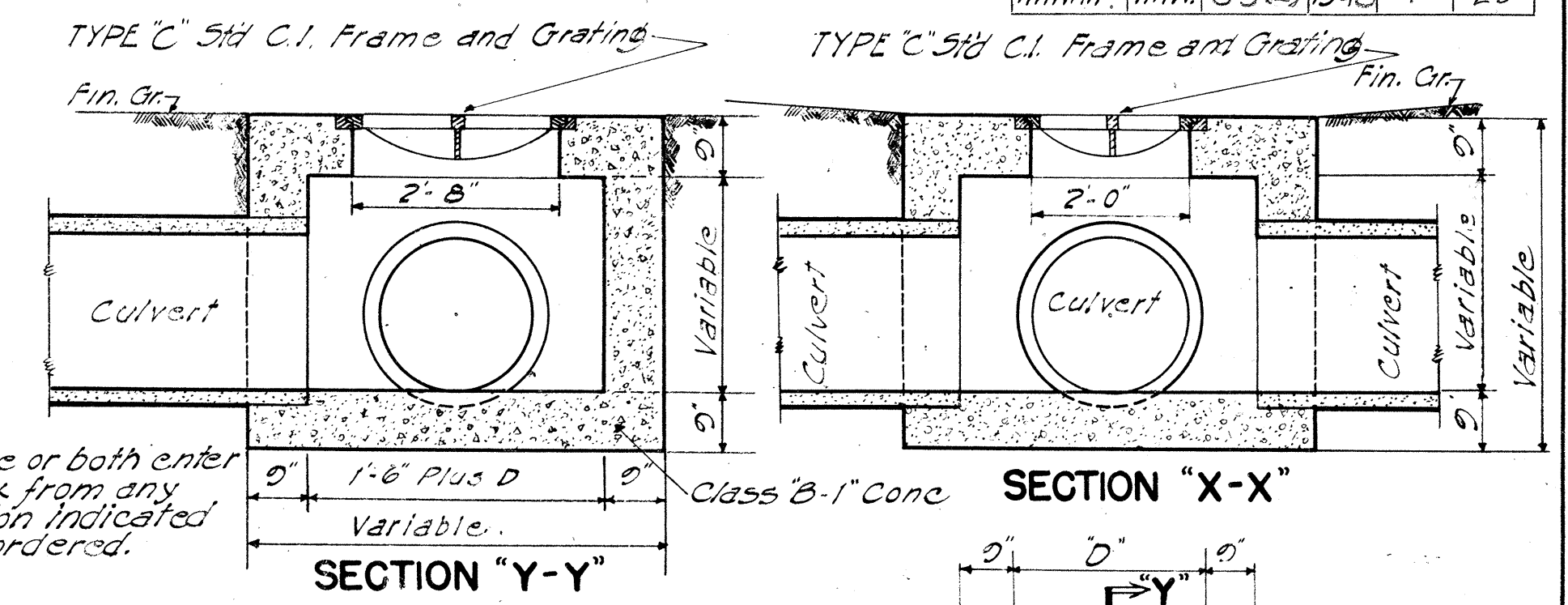


CONC. COLLAR FOR CONG. BOX CULVERT
 Scale: 1/2" = 1'-0"

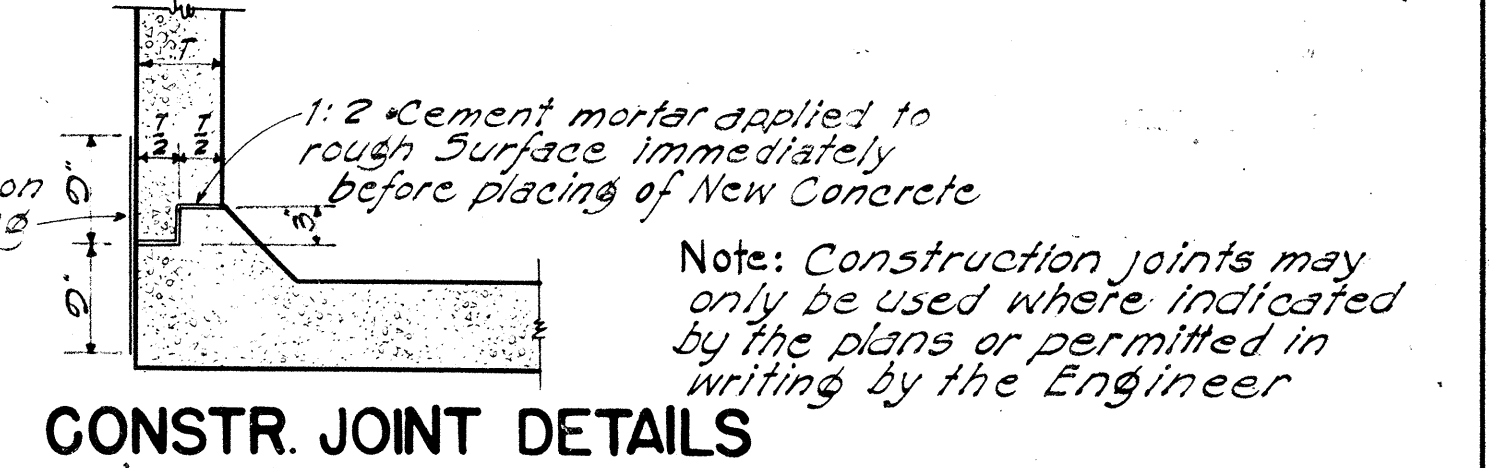
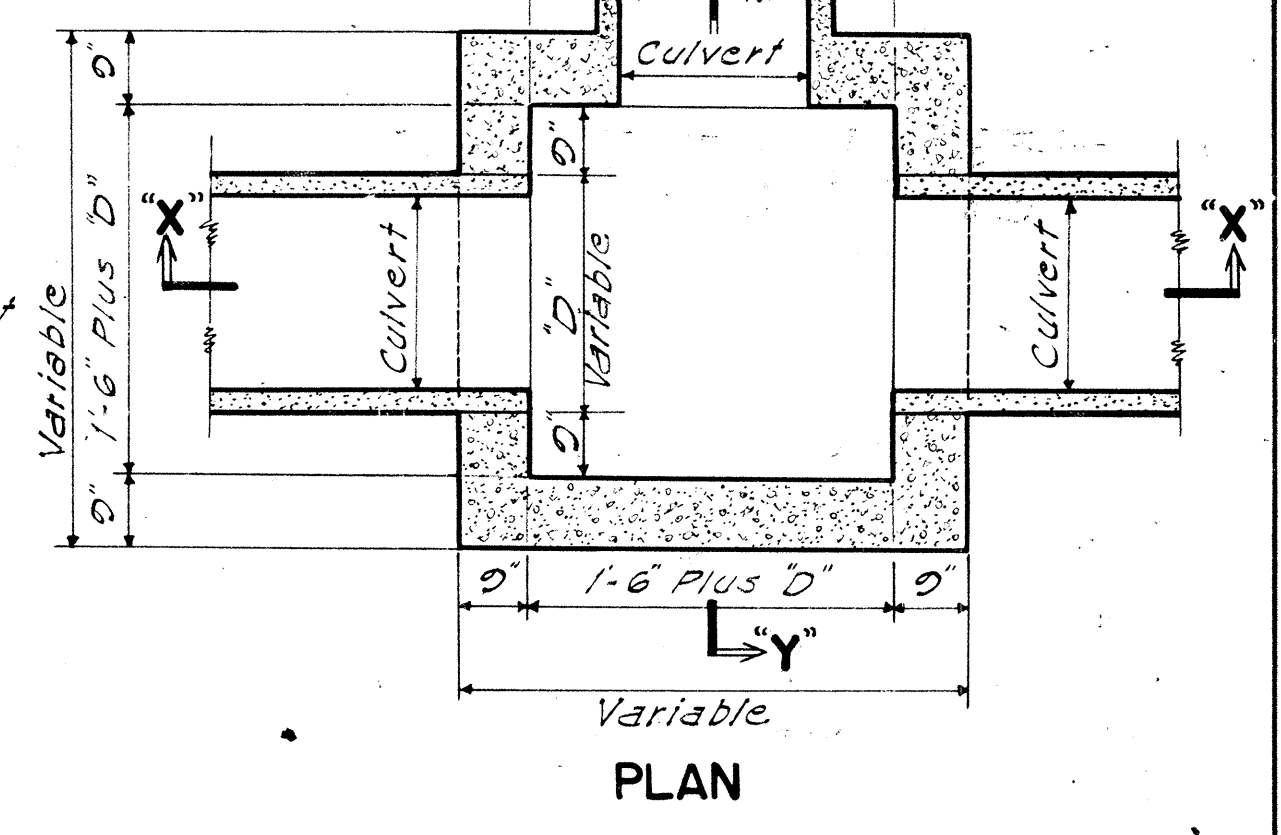


Cast-in-Place Cu. Yds.	Data: Standard Concrete Headwall				Steel One Headwall			
	D	B	L	H	Conc. one H.W.	No. of Bars	Size	Length
0.92 Cu. Yds.	18"	1'-6"	6'-0"	4'-0"	1.00 Cu. Yds.	4	3/4"	5'-6"
1.25 "	24"	1'-6"	7'-6"	4'-6"	1.38 "	4	"	7'-0"
1.93 "	30"	2'-0"	9'-0"	5'-0"	2.17 "	4	"	8'-6"
2.45 "	36"	2'-0"	10'-6"	5'-6"	2.74 "	4	"	10'-0"

STANDARD CONCRETE HEADWALL
 Scale: 1/2" = 1'-0"



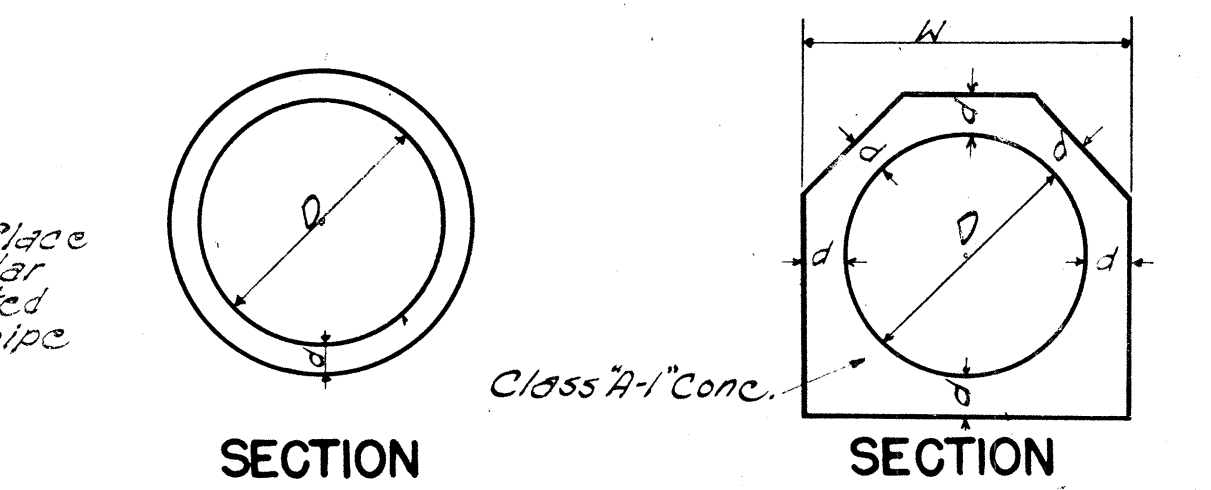
CONC. DROP INTAKE IN MEDIAL STRIPS
 Scale: 1/2" = 1'-0"



CONSTR. JOINT DETAILS

METHOD OF APPLYING CONSTR. JOINT WATERPROOFING

- (1) Map surface either side of joint as required with asphalt 85-100 penetration applied at 200°F.
- (2) Apply one layer of 55-lb composition roofing to hot asphalt.
- (3) Map surface of composition roofing and 3" beyond all around with thick coat of asphalt as specified under (1)



CONC. PIPE CULVERT

Data: Cast-in-Place Conc. Culvert

D	d	W	Cu. Yds. per ft
18"	4"	2'-2"	0.11
24"	4 1/2"	2'-0"	0.14
30"	5"	3'-4"	0.10
36"	5 1/2"	3'-11"	0.26

Note: Thickness 'd', reinforcing, and concrete used are to conform with the approved design as provided by the Specifications.

CAST-IN-PLACE CONG. CULVERT