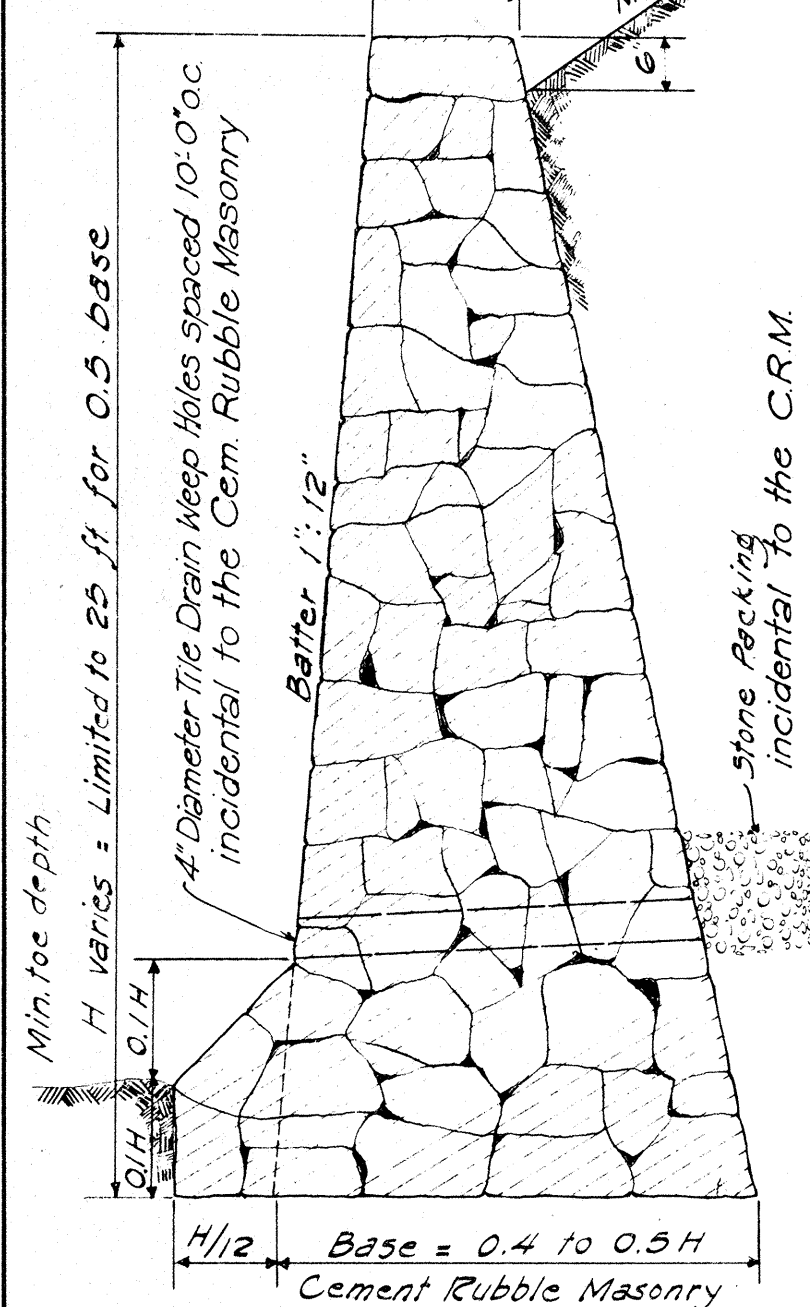
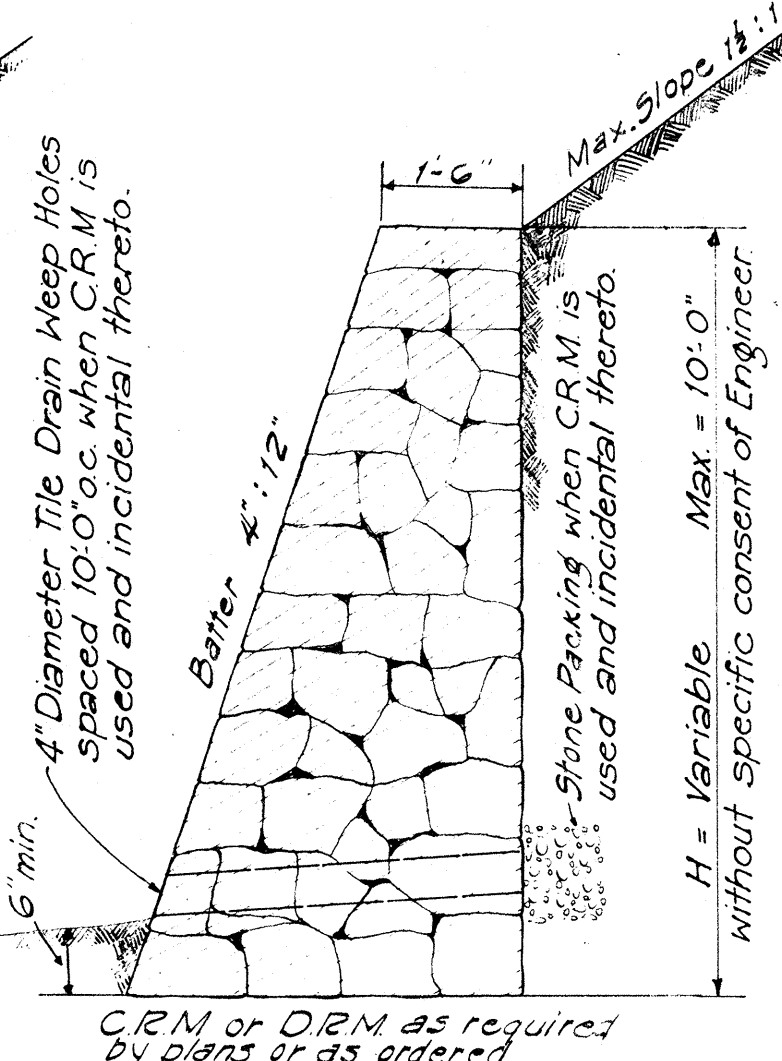


Note: TO RESIDENT ENGINEER
Consider economy of using conc. for high retaining walls which do not originate on plan lay-out.



STANDARD SECTION OF HIGH CEMENT RUBBLE MASONRY RETAINING WALL OR SEAWALL

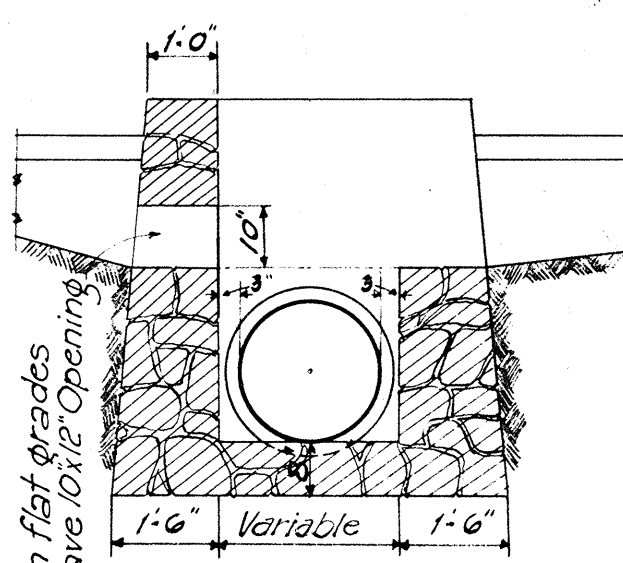
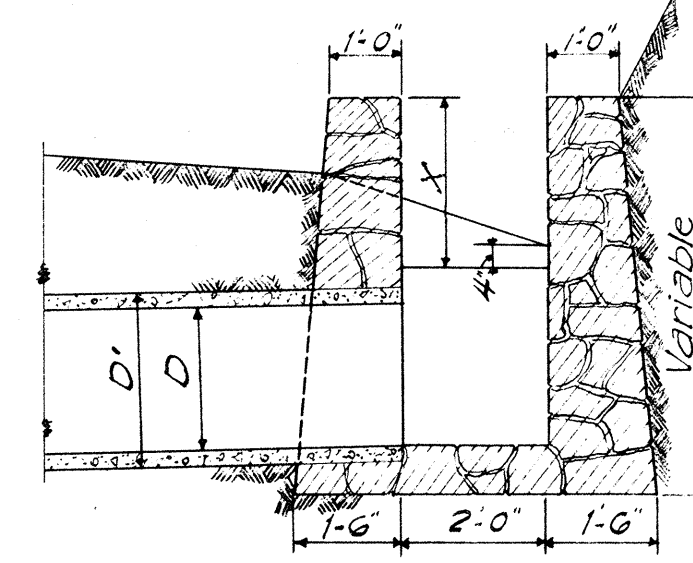
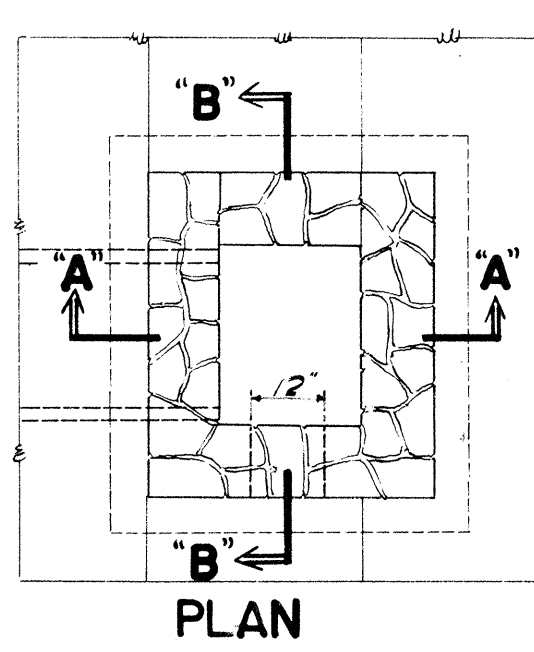


STANDARD SECTION OF LOW MASONRY RETAINING WALL OR SEAWALL

NOTE: Elevation of weep holes to be determined by Resident Engineer. Holes to be placed as close to the existing ground line as local conditions permit.

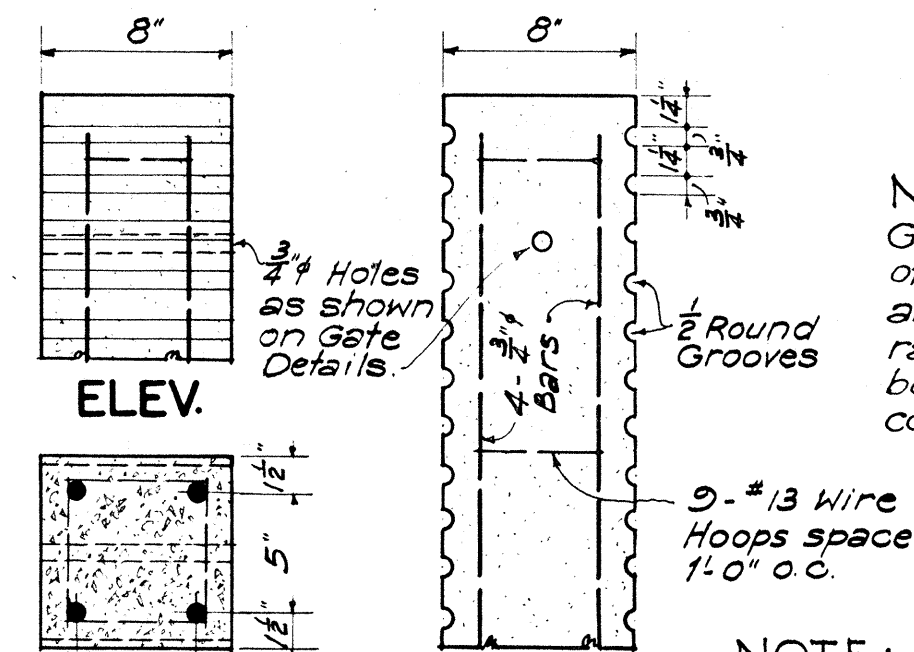
DATA	STANDARD MASONRY DROP	INTAKE	WHERE VARIABLE EQUALS
0	0	0	0
22 1/2	18	2 1/2	4 1/2
29	24	2 1/2	5 0
35 1/2	30	3 0	5 6
42	36	3 6	6 0

NOTE: Dimension "X" is assumed as 2' 4" in figuring the above quantities.



STANDARD MASONRY DROP INTAKE

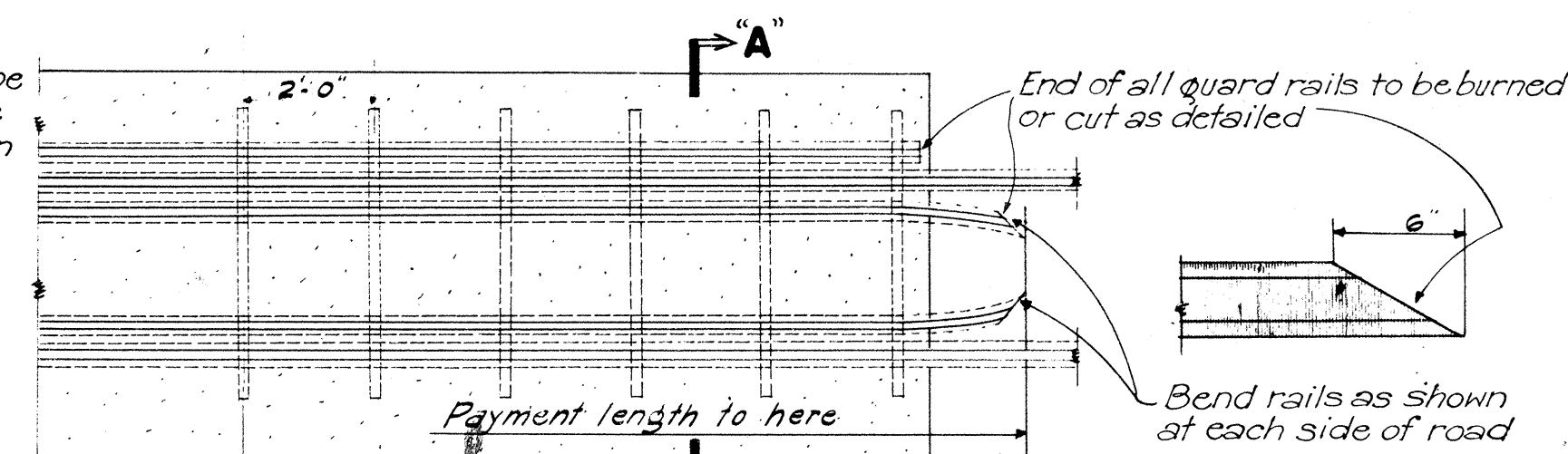
Scale: 3/8" = 1' - 0"



CONC. GATE POST

Scale: 1/2" = 1' - 0"

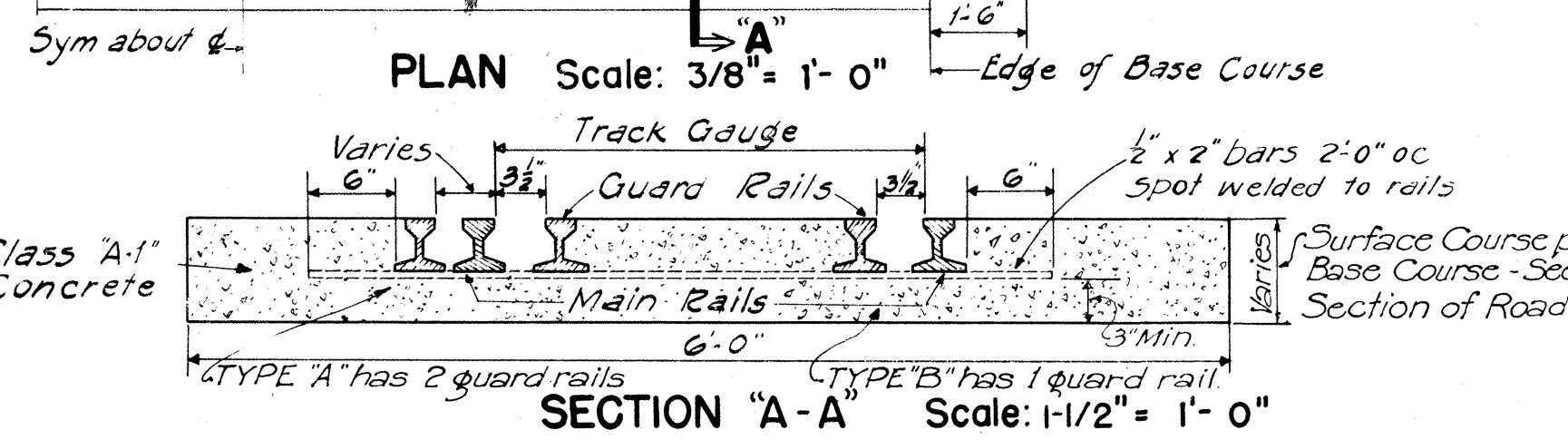
NOTE: Guard rails are to be of the same shape and weight as Main rails. Details may be varied to suit conditions in field.



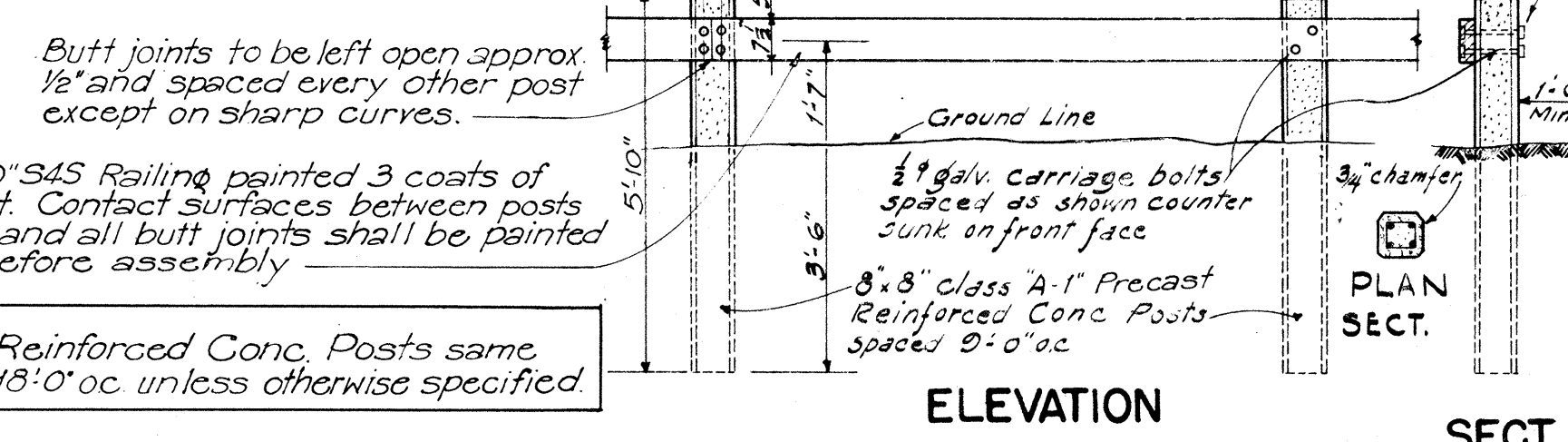
PLAN Scale: 3/8" = 1' - 0"

INDUSTRIAL TRACK CROSSING

NOTE: Use Type 'A' if neither Type 'A' or 'B' is specified.



Scale: 1/2" = 1' - 0"

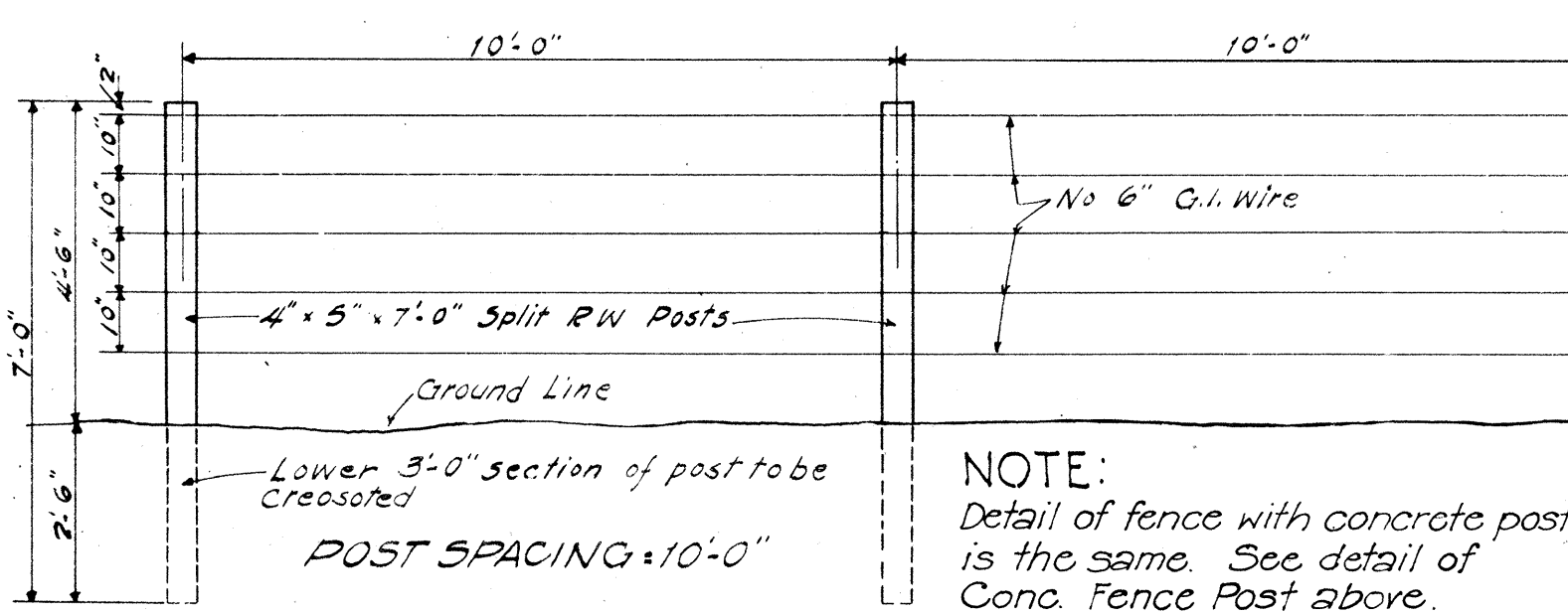


STANDARD WOOD GUARD RAIL

Scale: 3/8" = 1' - 0"

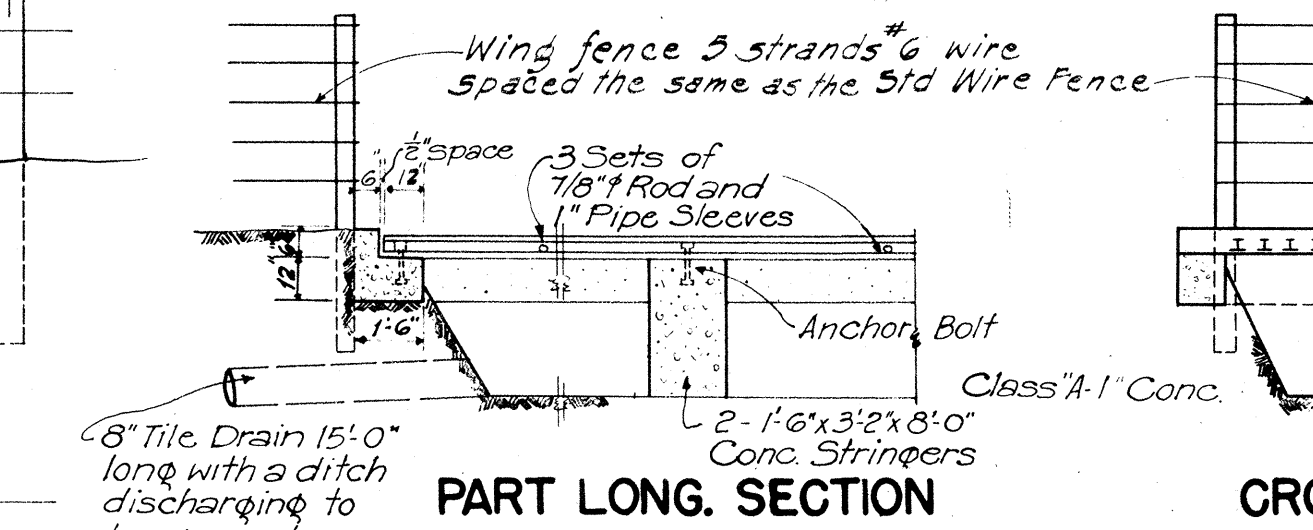
NOTE: Detail of fence with concrete post is the same. See detail of Conc. Fence Post above.

STANDARD GUIDE POSTS: 8" x 8" Reinforced Conc. Posts same as those used for Std Wood Guard Rail spaced 18' 0" oc unless otherwise specified.



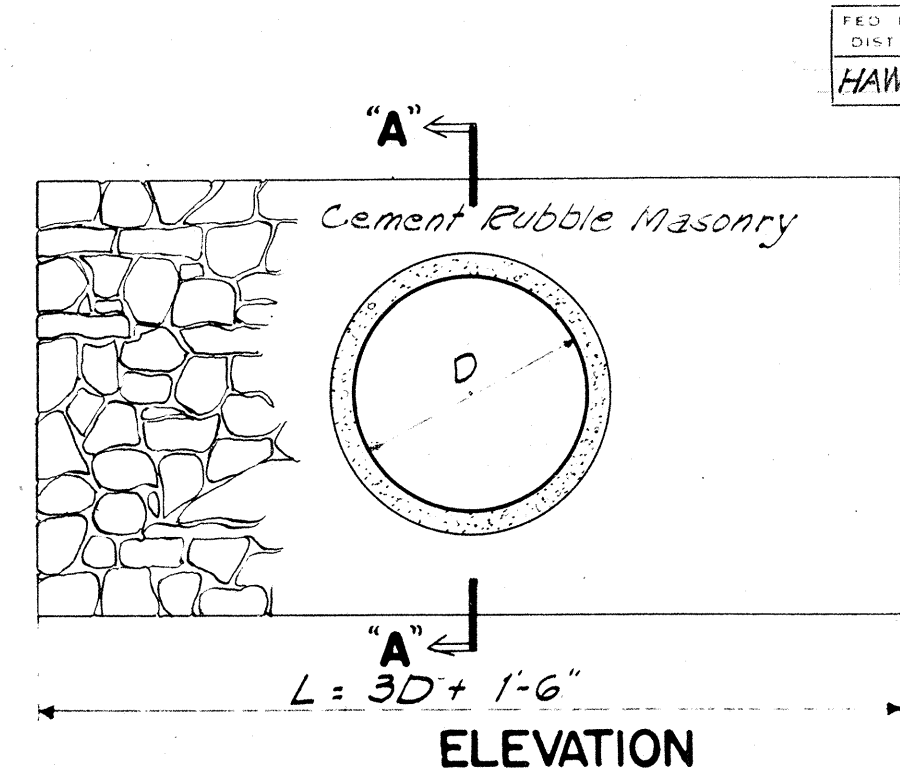
DETAILS OF STANDARD WIRE FENCE WITH WOODEN POSTS

Scale: 3/8" = 1' - 0"



DETAILS OF STANDARD WIRE FENCE WITH WOODEN POSTS

Scale: 3/8" = 1' - 0"

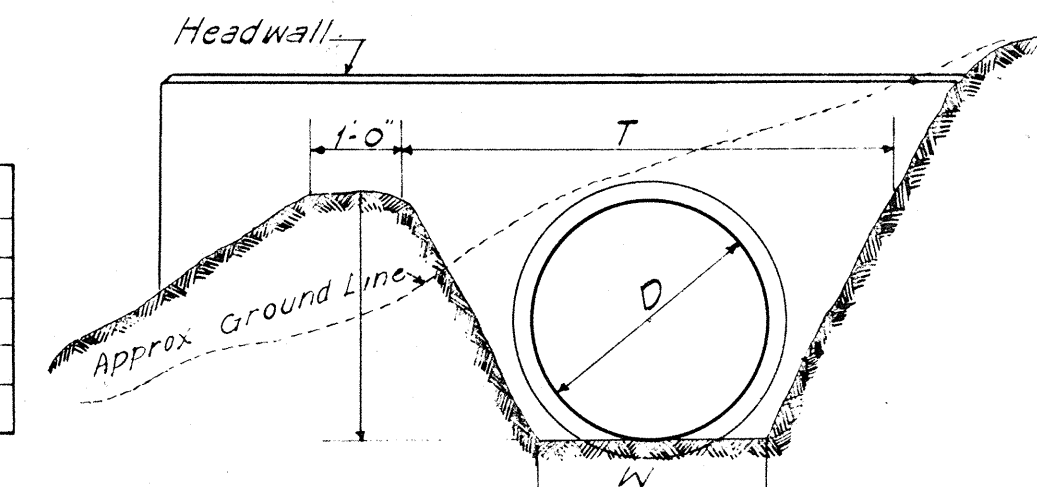


Cash-in-Place	Precast	DATA-Standard Rubble Masonry H.W.	Cu. Yds.	Cu. Yds.	D	H	B	L	Cu. Yds. H.W.
0.85	0.95	18	3' 6"	1' 0"	6' 0"	0.03			
1.23	1.45	24	4' 0"	2' 0"	7' 6"	1.41			
1.83	2.06	30	4' 6"	2' 6"	9' 0"	2.00			
2.40	2.84	36	5' 0"	2' 6"	10' 6"	2.72			

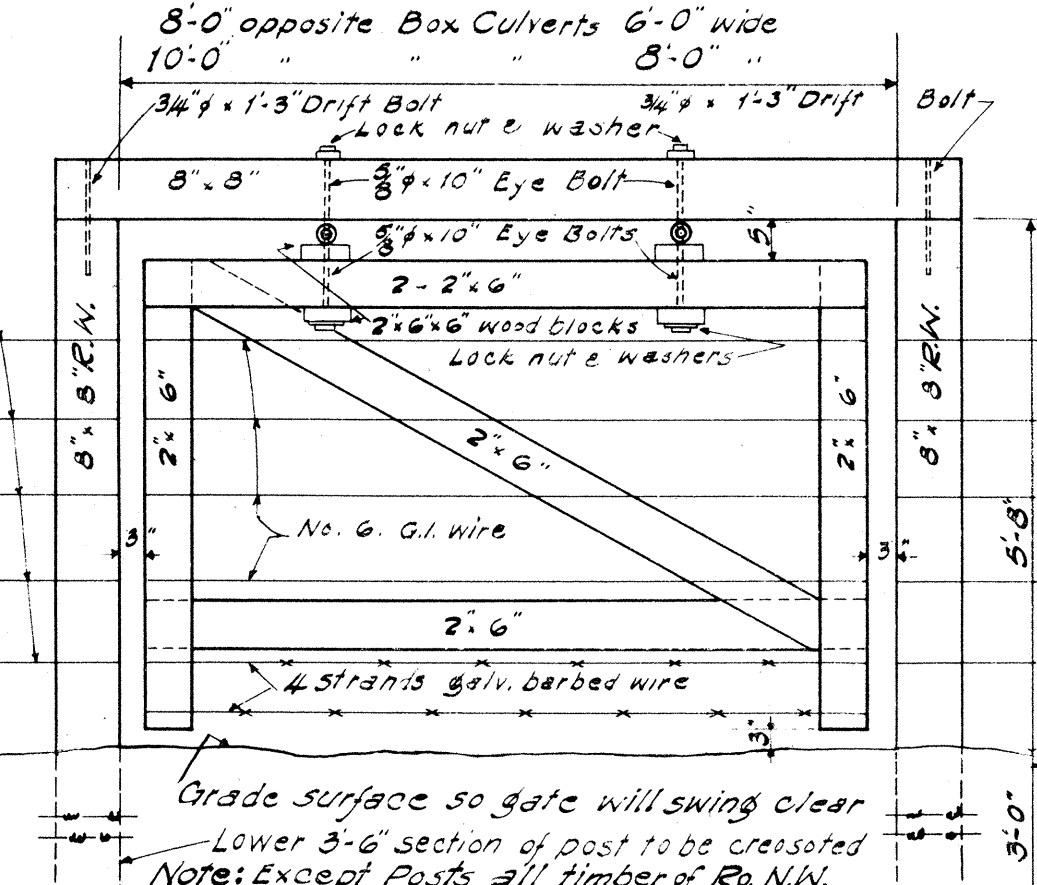
STANDARD MASONRY HEADWALL

Scale: 1/2" = 1' - 0"

NOTE: Volume for one head wall is for corrugated pipe culvert.

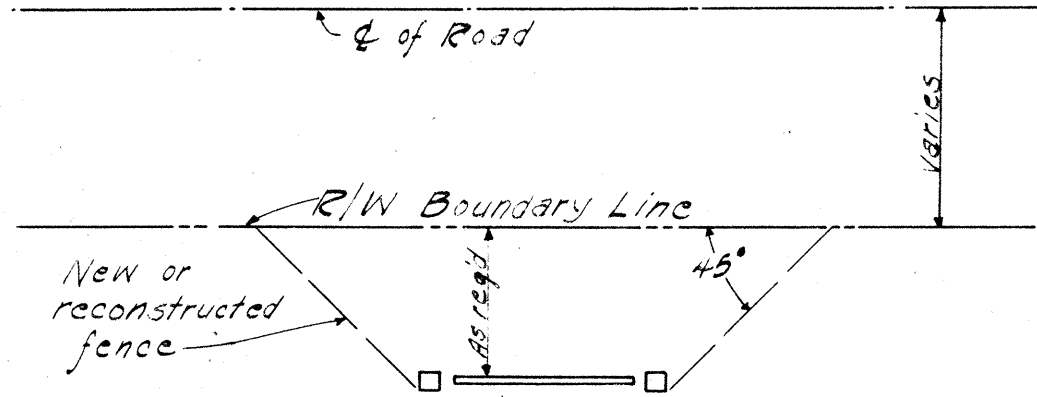


DETAIL OF STANDARD OUTLET DITCH



DETAIL OF STANDARD OUTLET DITCH

Scale: 1/2" = 1' - 0"



LAYOUT SHOWING HURDLE PLACED BELOW CULVERT IN A POSITION WHICH WILL BE CATTLE TIGHT

DETAILS OF HURDLE

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

STANDARD DETAILS

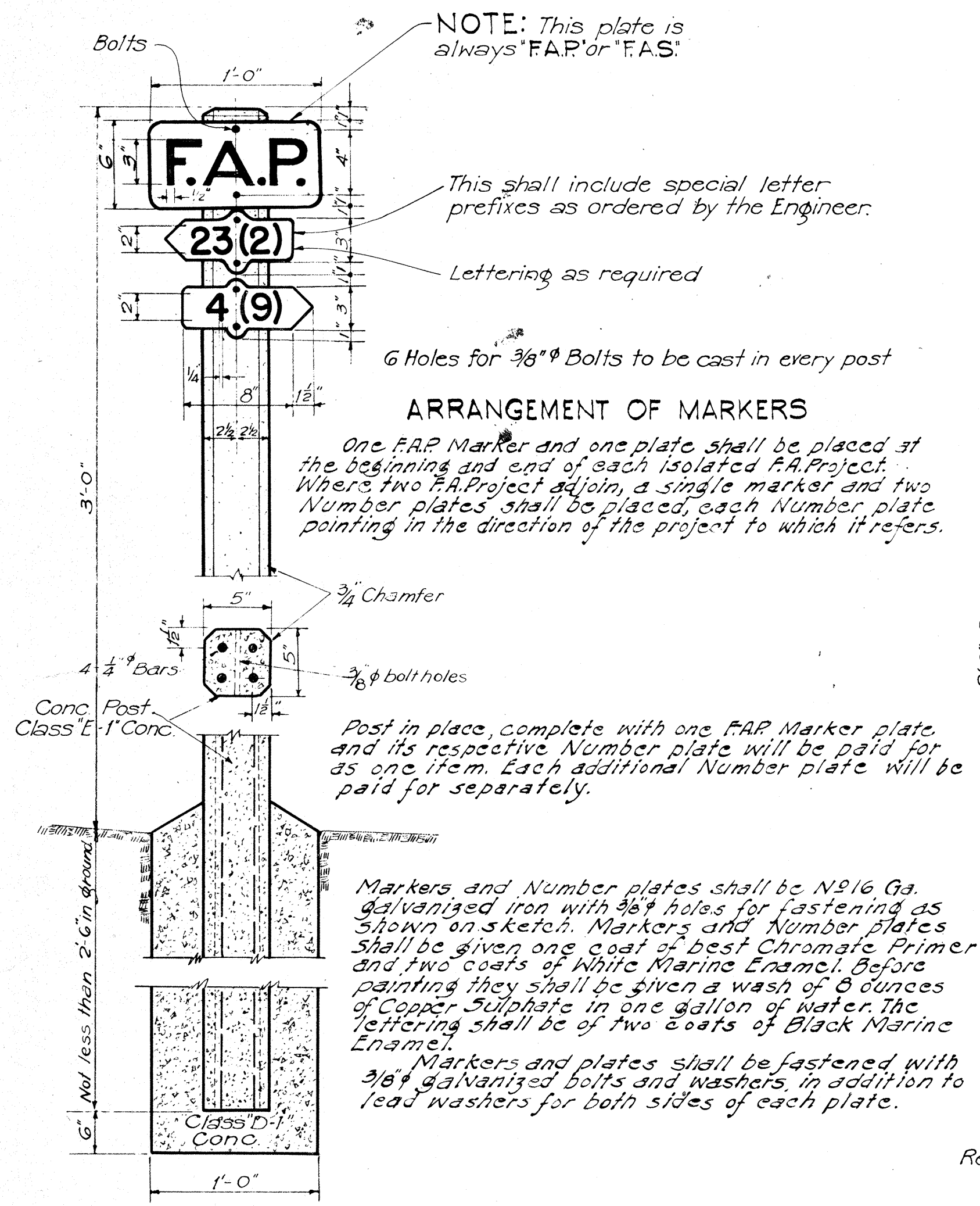
SCALES AS NOTED Sept. 5, 1946

APPROVED: B. F. Pugh
Territorial Highway Engineer

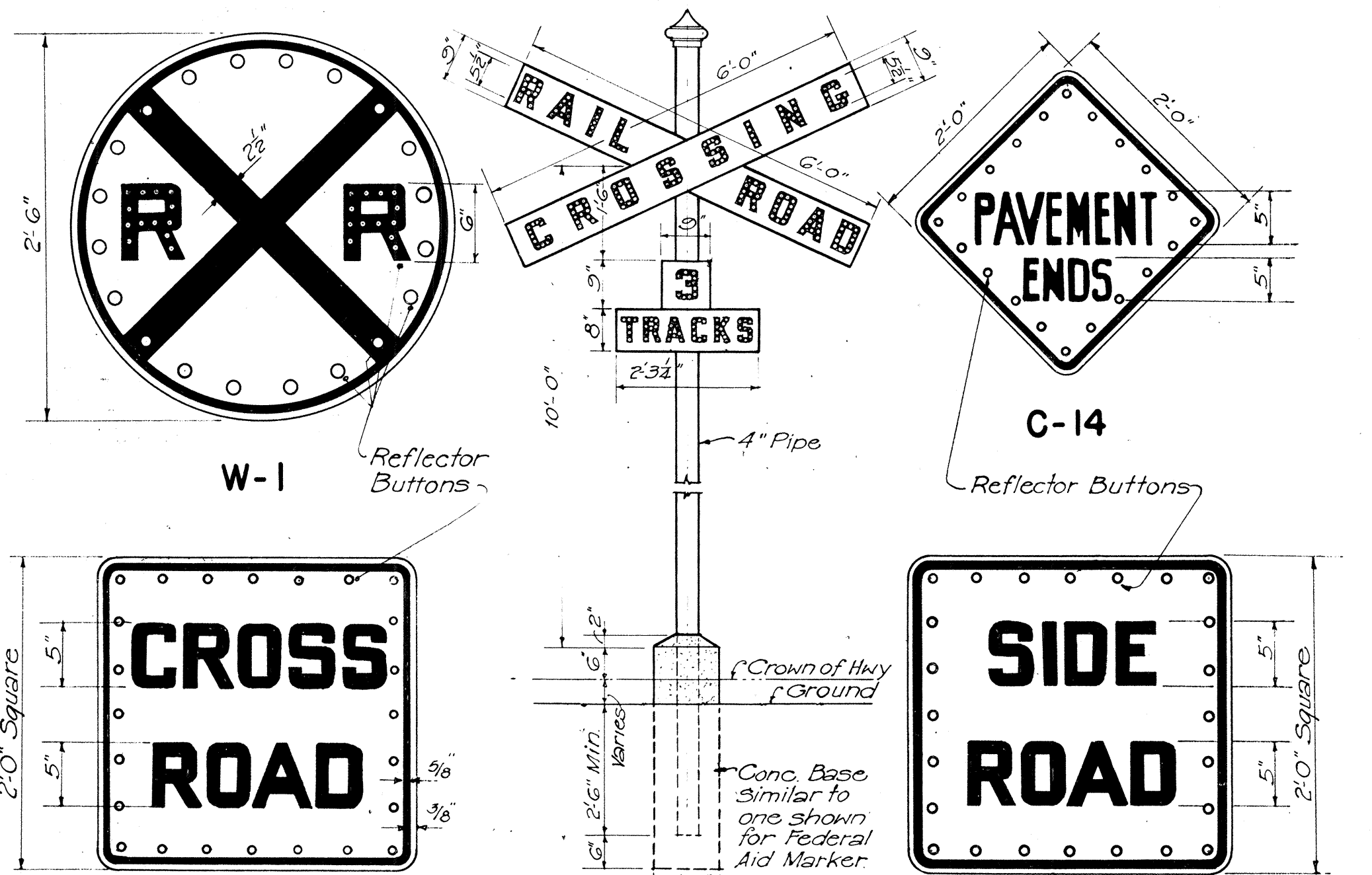
SHEET NO. 1 OF 4 SHEETS

5191.5

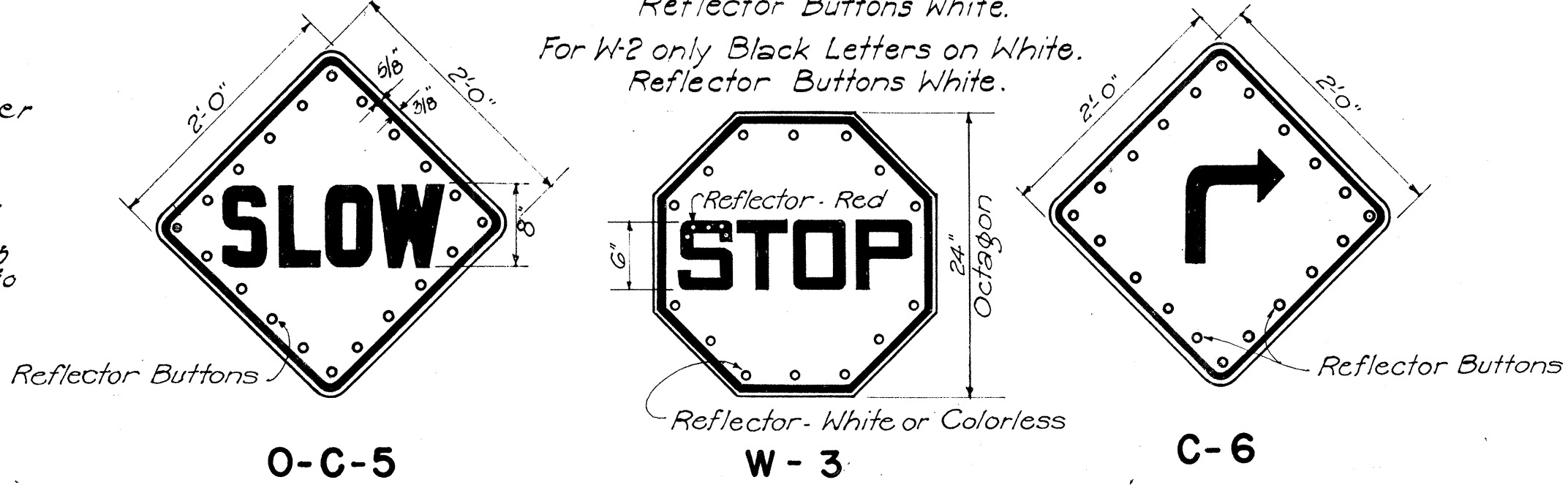
DATE: _____
SURVEY PLATTED BY: _____
DRAWN BY: S. Demba
CHECKED BY: _____
NOTE: _____



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

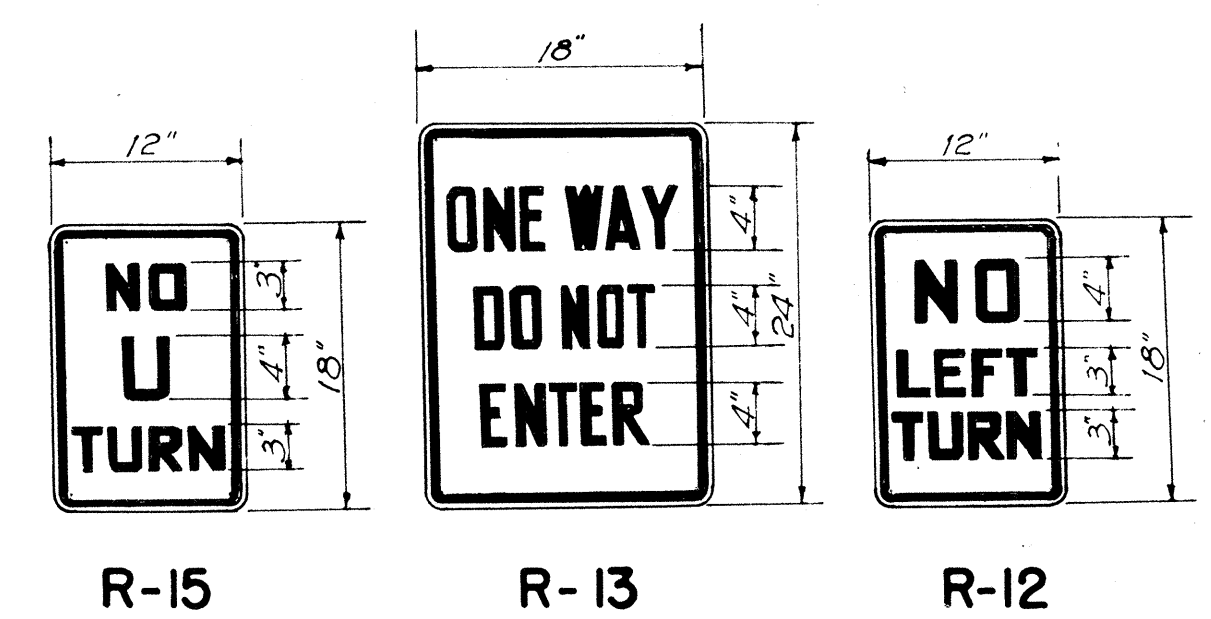


W-2
Black Letters on Yellow.
Reflector Buttons White.
For W-2 only Black Letters on White.
Reflector Buttons White.

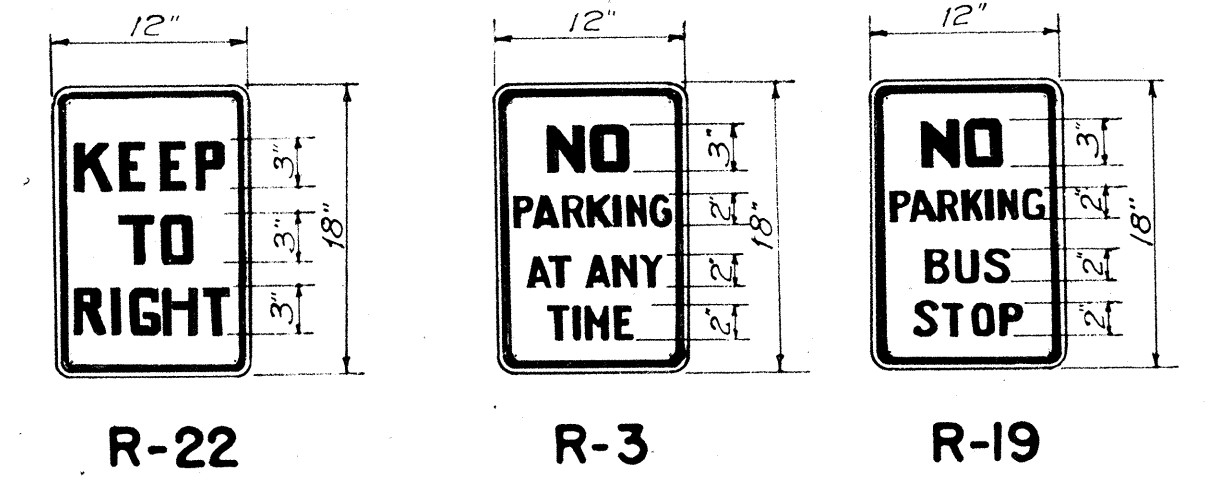


WARNING AND CAUTION SIGNS

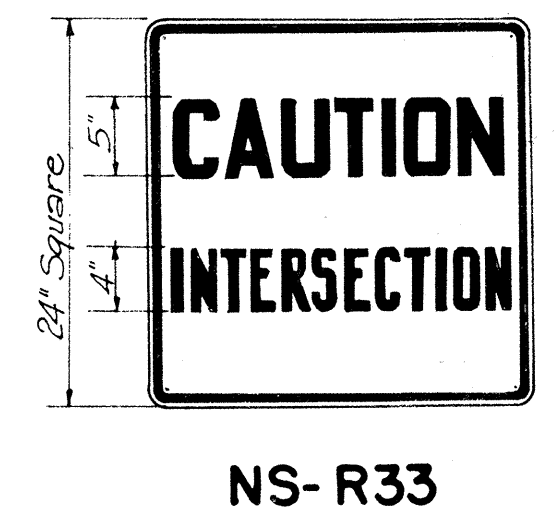
NOTE: Each sign, except W-2 is to be mounted on 3" Galv. Pipe in the same manner as detailed for Regulatory Sign.



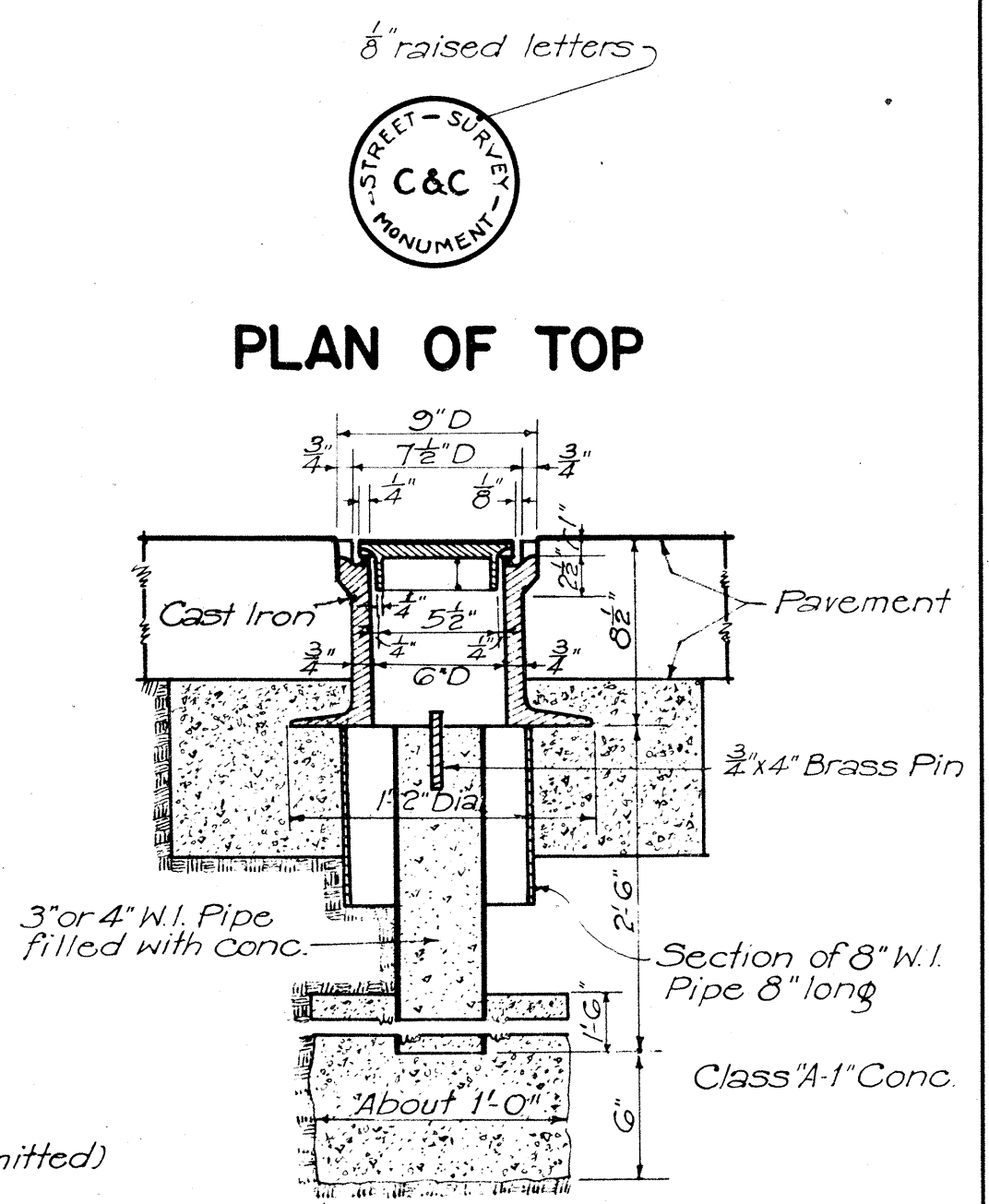
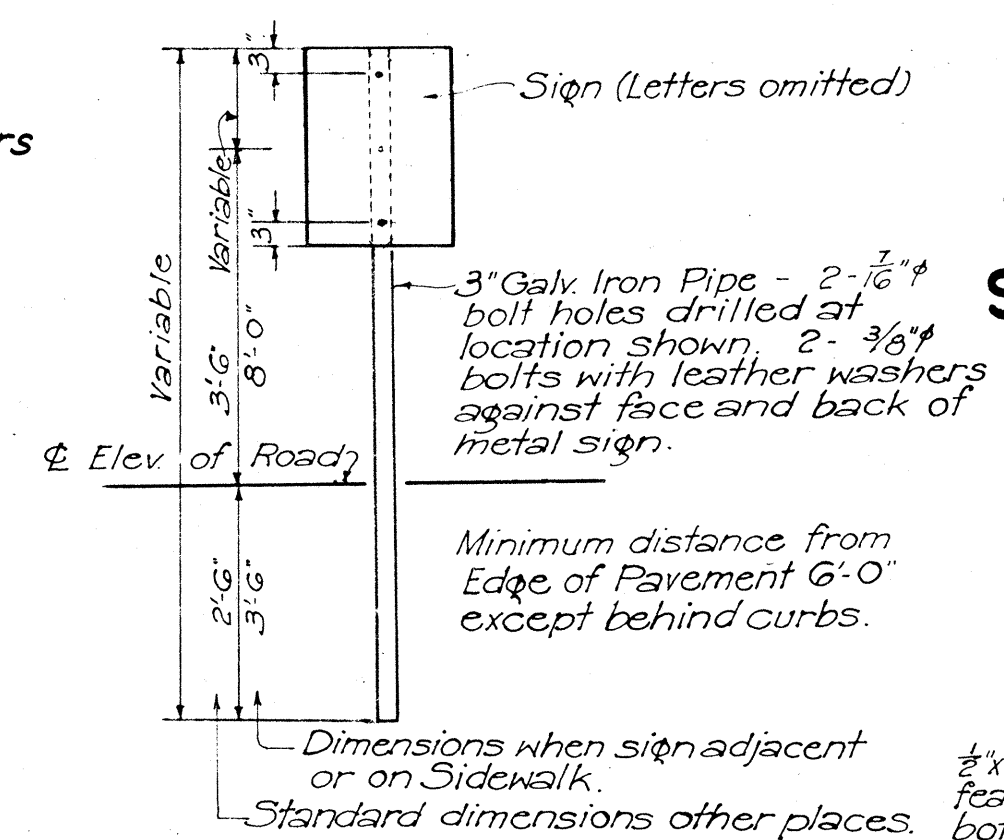
For R-15, R-13, R-12, R-22, R-3, and R-19:
Black Letters and Borders on White Background



For NS-R33:
Black Letters and Borders on Yellow Background.

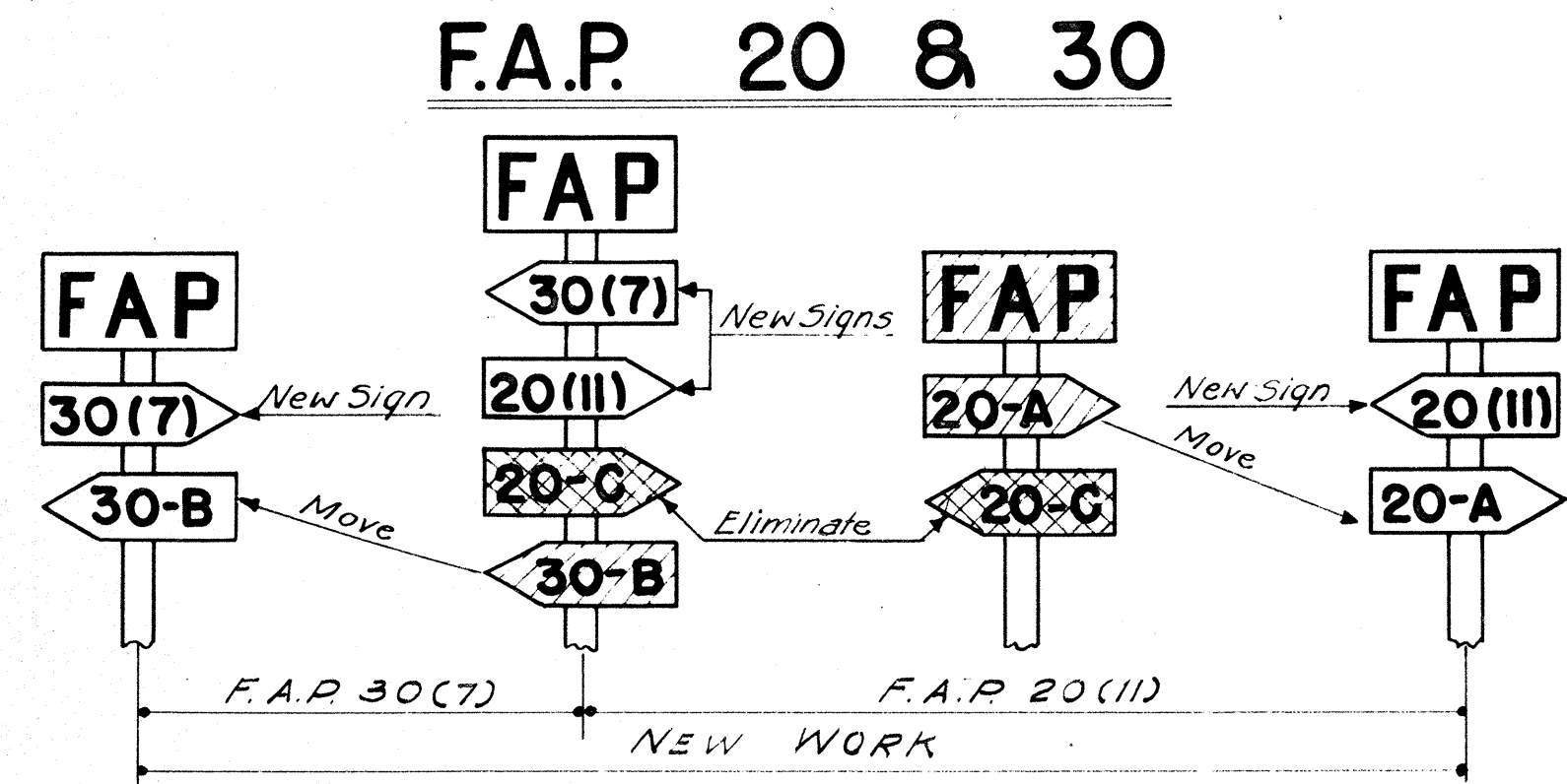


DETAILS OF REGULATORY SIGNS



STD. C&C STREET SURVEY MONUMENT

CENTER LINE MONUMENT
Scale: 1/2" = 1'-0"

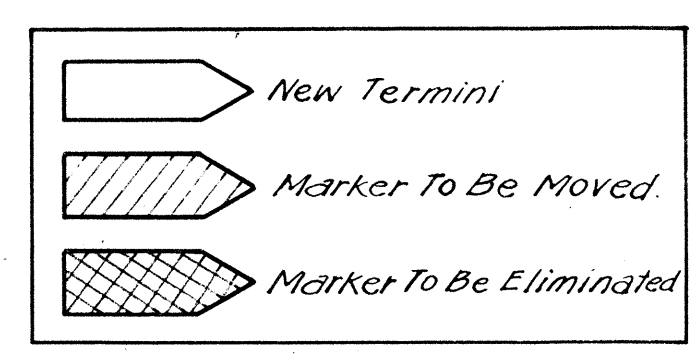


NOTE: Federal Aid markers should be placed at the termini of suffix designated sections. Intermediate letter designated markers

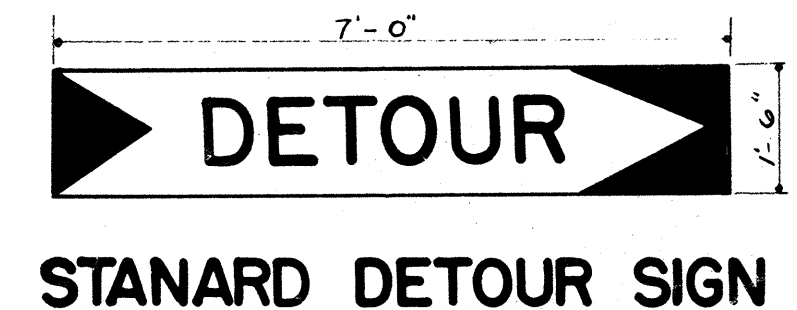
of adjacent sections located within the limits of new improvements should be moved to the termini of the new work.

The same procedure would be followed on each successive improvement until all markers for letter designated sections are eventually eliminated.

METHOD OF MARKNG 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.



STANARD DETOUR SIGN

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

STANDARD DETAILS

SCALES AS NOTED Sept. 5, 1946

APPROVED: *B.F. Rush*
Territorial Highway Engineer

SHEET No. 2 OF 4 SHEETS