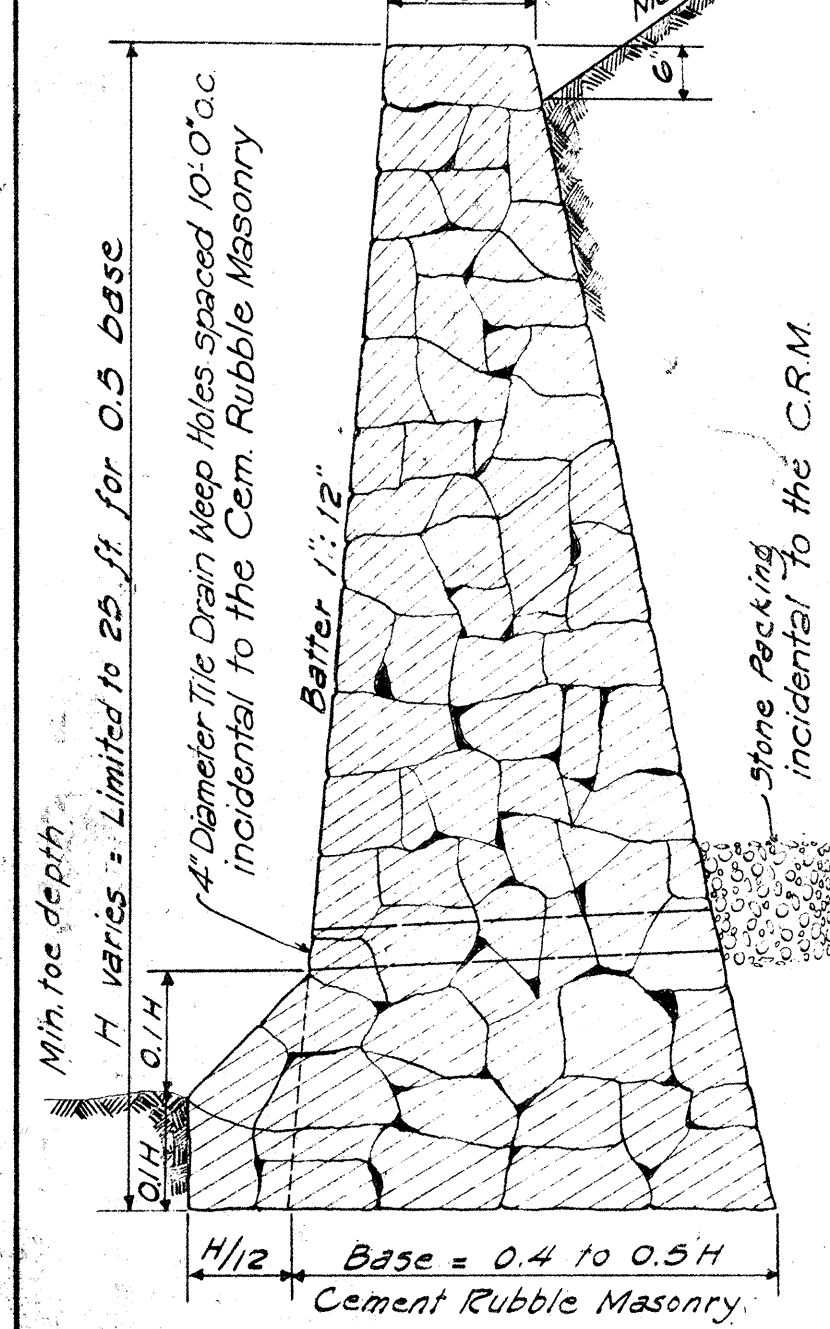


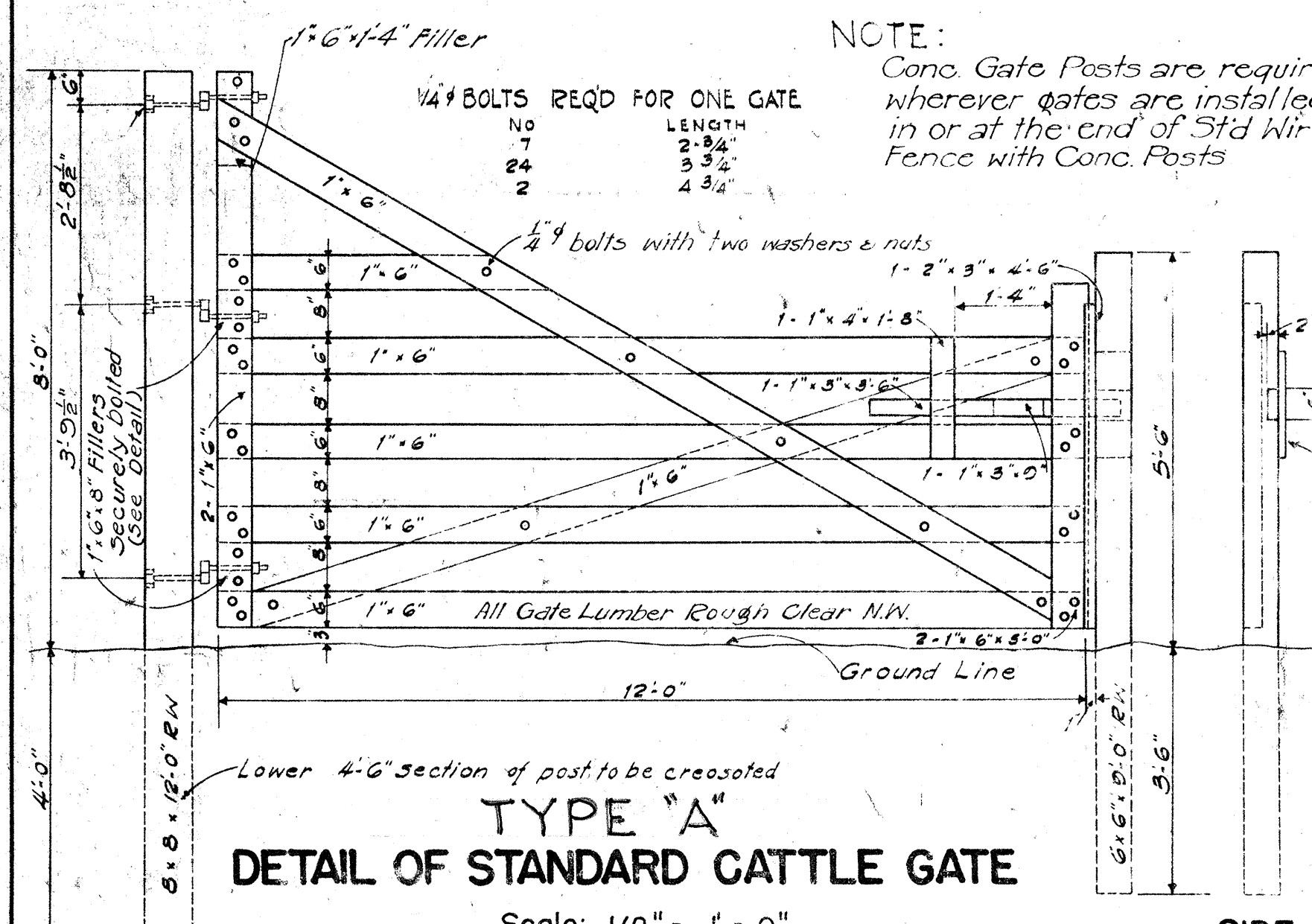
Note: TO RESIDENT ENGINEER
Consider economy of using corr. for high retaining walls which do not originate on plan layout.



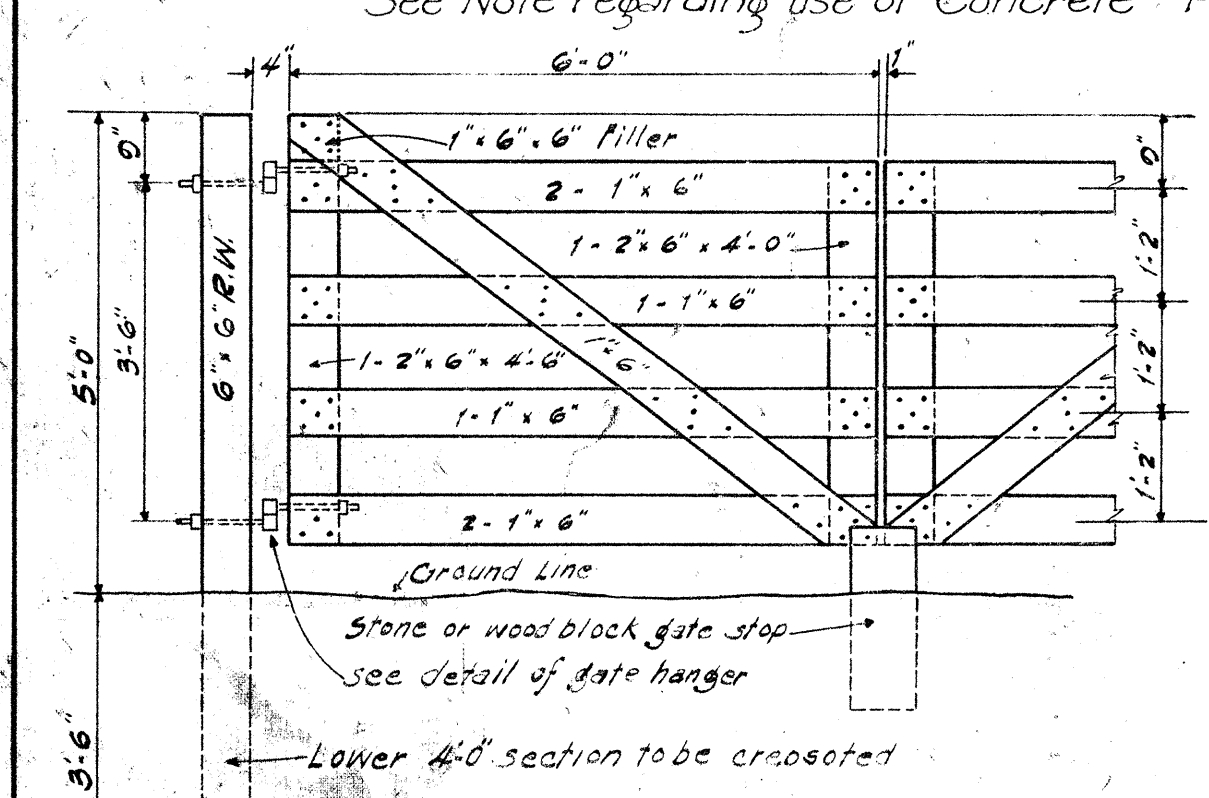
STANDARD SECTION OF LOW MASONRY RETAINING WALL OR SEAWALL
Scale: 1/2" = 1'-0"

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.

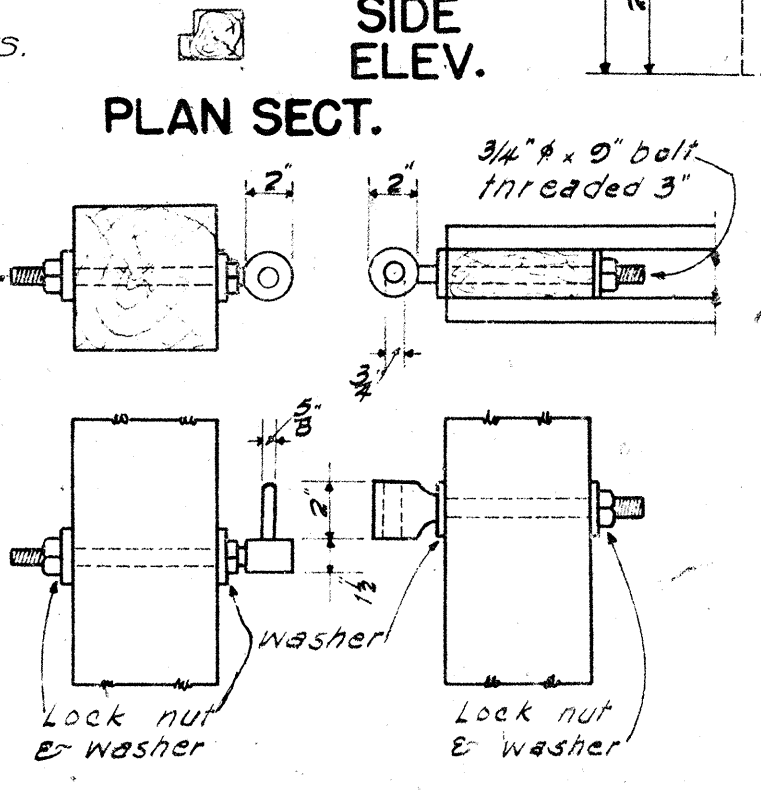
STANDARD SECTION OF HIGH CEMENT RUBBLE MASONRY RETAINING WALL OR SEAWALL
Scale: 1/2" = 1'-0"



DETAIL OF STANDARD CATTLE GATE
Scale: 1/2" = 1'-0"



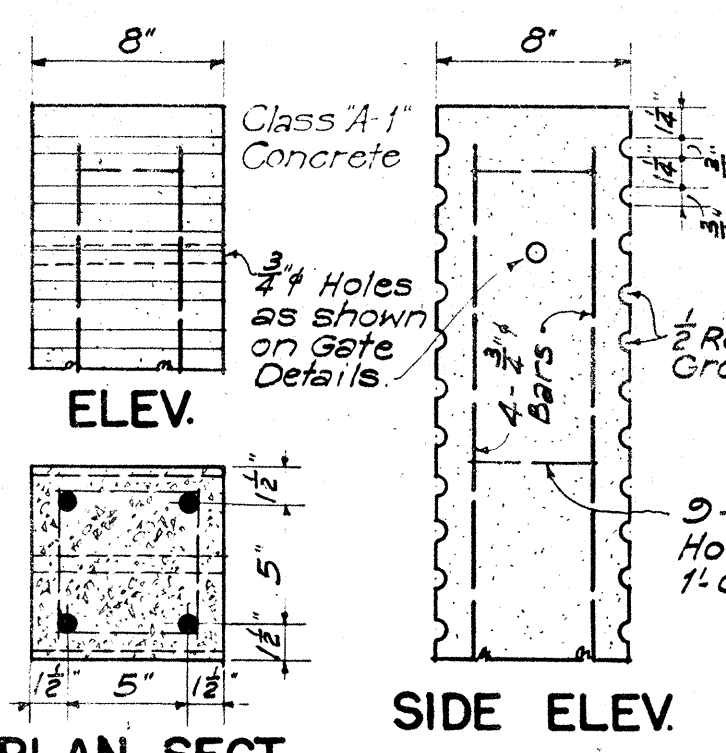
DOUBLE HUNG GATE
Scale: 1/2" = 1'-0"



DETAIL OF GATE HANGER
Scale: 1/2" = 1'-0"

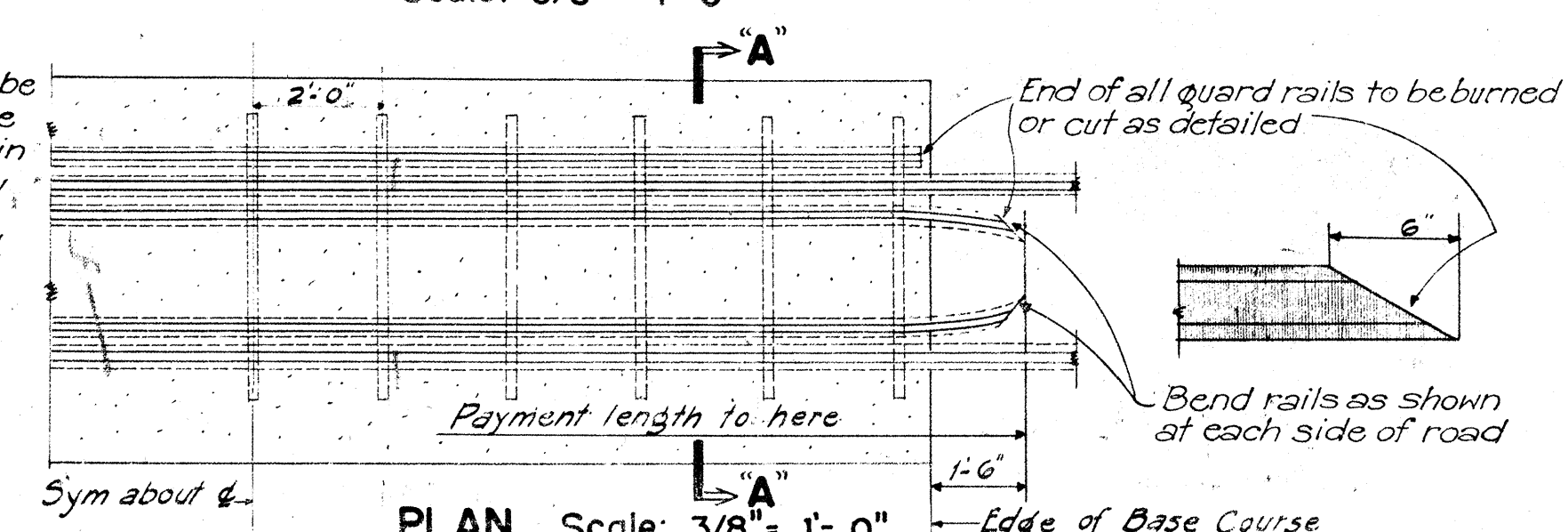
Data	Standard	Masonry	Drop	Intake	Where Variable Equals
D	D	L x D x G	Cu. Yds		
22 1/2"	18"	2'-0"	2.41	4'-6"	
29"	24"	2'-6"	2.89	5'-0"	
35 1/2"	30"	3'-0"	3.38	5'-6"	
42"	36"	3'-6"	3.92	6'-0"	

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



STANDARD MASONRY DROP INTAKE
Scale: 3/8" = 1'-0"

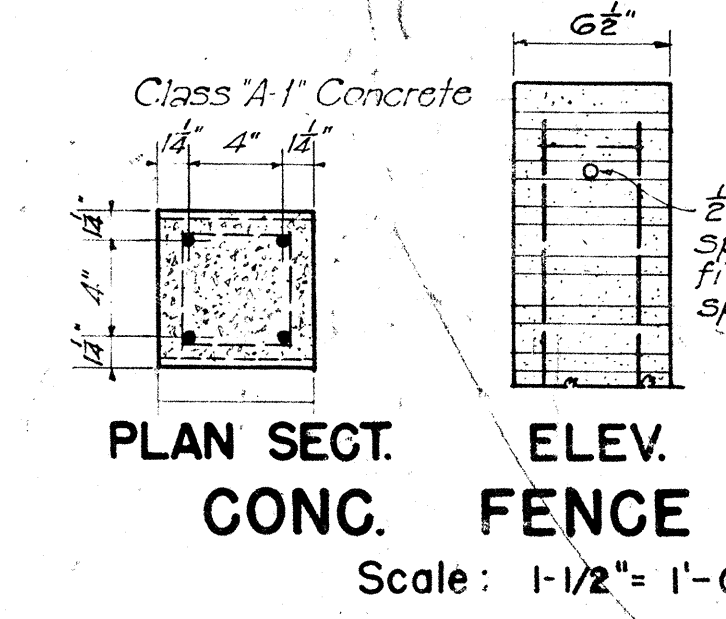
NOTE: Guard rails are to be of the same shape and weight as Main rails. Details may be varied to suit conditions in field.



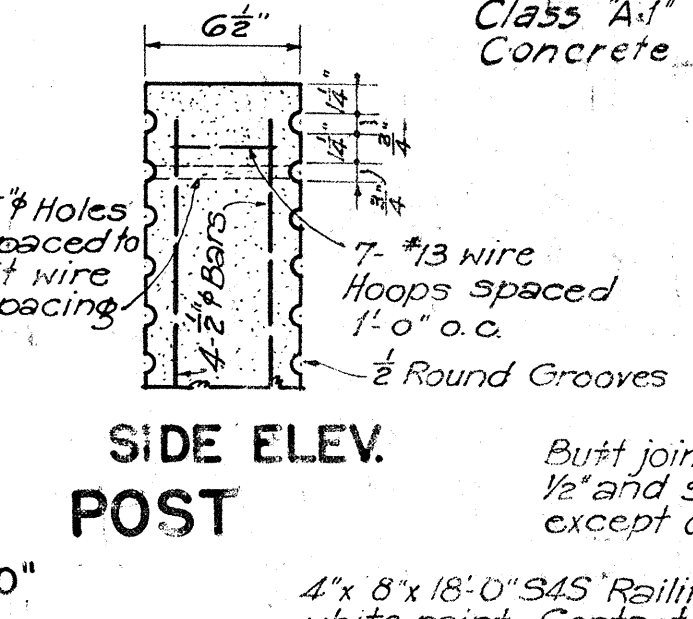
STANDARD MASONRY HEADWALL
Scale: 1/2" = 1'-0"

Cast-in-Place	Pre-cast	Data-Standard	Rubble Masonry	H.W.	Cu. Yds.	Wt.	Cu. Yds.	Wt.
0.85	0.95	18"	3'-6"	1'-0"	6'-0"	0.03	0.03	0.03
1.28	1.45	24"	4'-0"	2'-0"	7'-6"	1.41	1.41	1.41
1.83	2.06	30"	4'-6"	2'-3"	9'-0"	2.00	2.00	2.00
2.49	2.84	36"	5'-0"	2'-6"	10'-6"	2.72	2.72	2.72

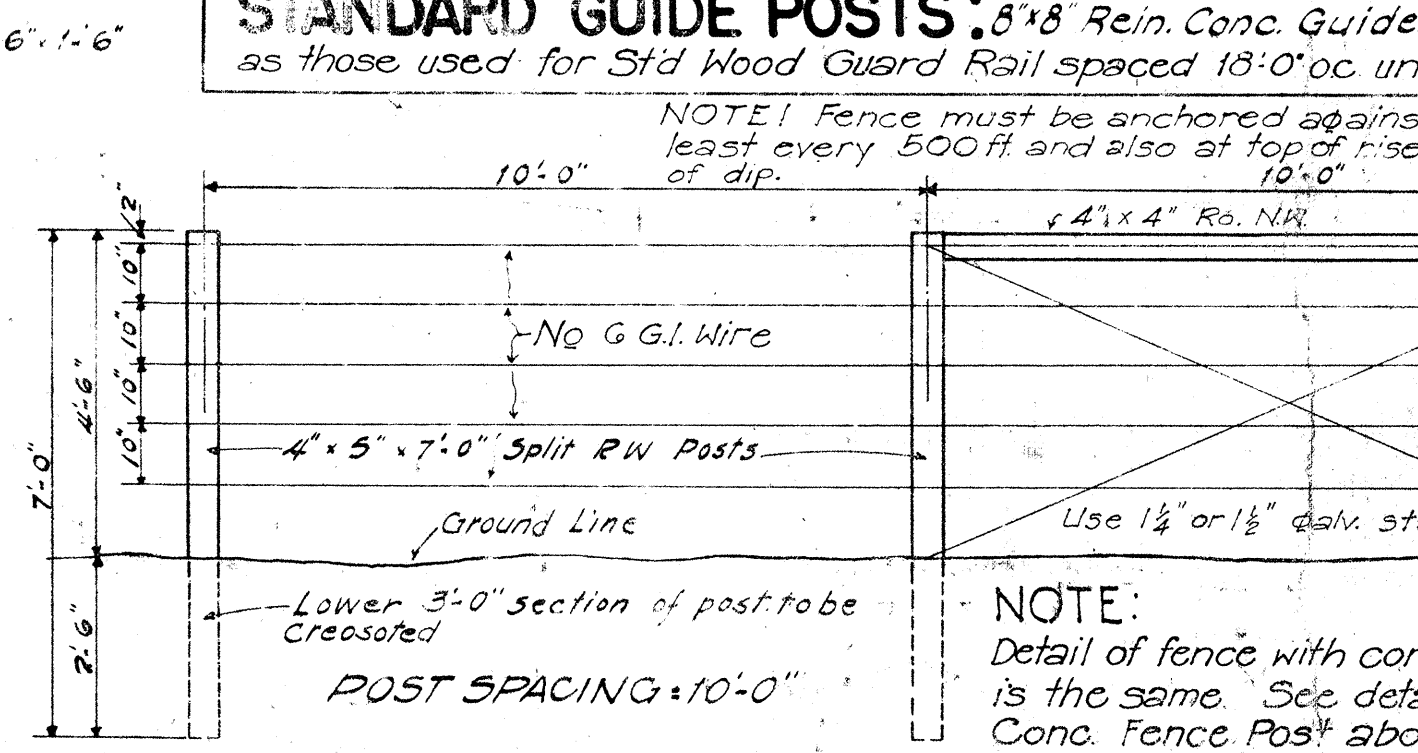
NOTE: Volume for one head wall is for corrugated pipe culvert.



STANDARD GUIDE POSTS
Scale: 1-1/2" = 1'-0"



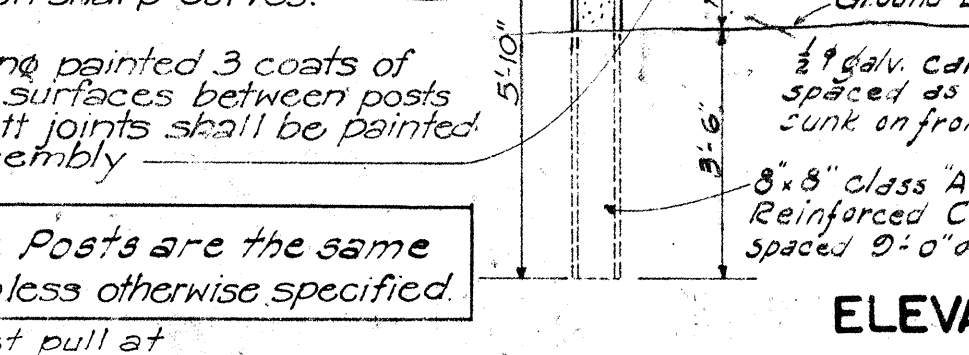
STANDARD GUIDE POSTS
Scale: 1-1/2" = 1'-0"



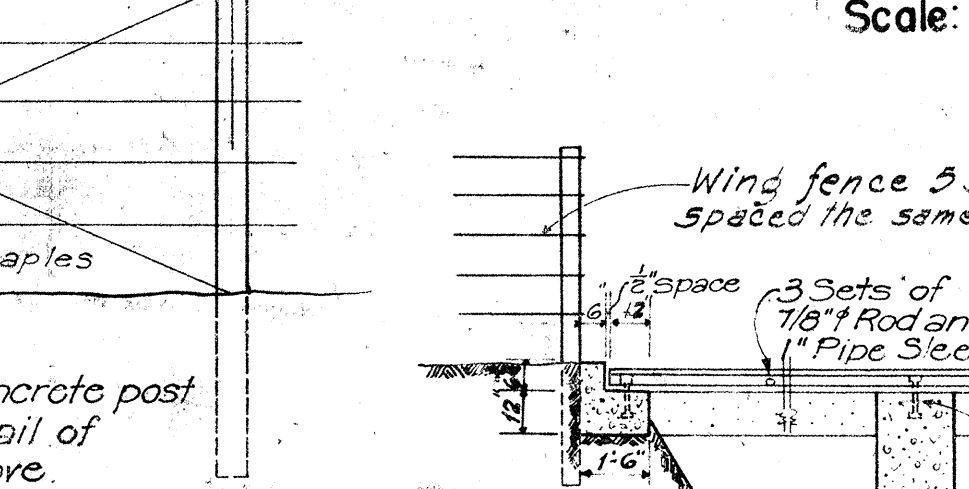
STANDARD GUIDE POSTS
Scale: 1-1/2" = 1'-0"

INDUSTRIAL TRACK CROSSING
Scale: 1-1/2" = 1'-0"

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



INDUSTRIAL TRACK CROSSING
Scale: 1-1/2" = 1'-0"



INDUSTRIAL TRACK CROSSING
Scale: 1-1/2" = 1'-0"

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

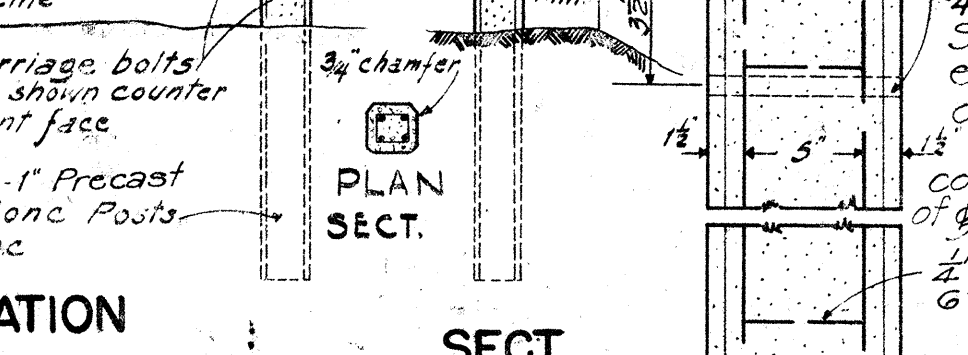
INDUSTRIAL TRACK CROSSING
Scale: 1-1/2" = 1'-0"

INDUSTRIAL TRACK CROSSING
Scale: 1-1/2" = 1'-0"

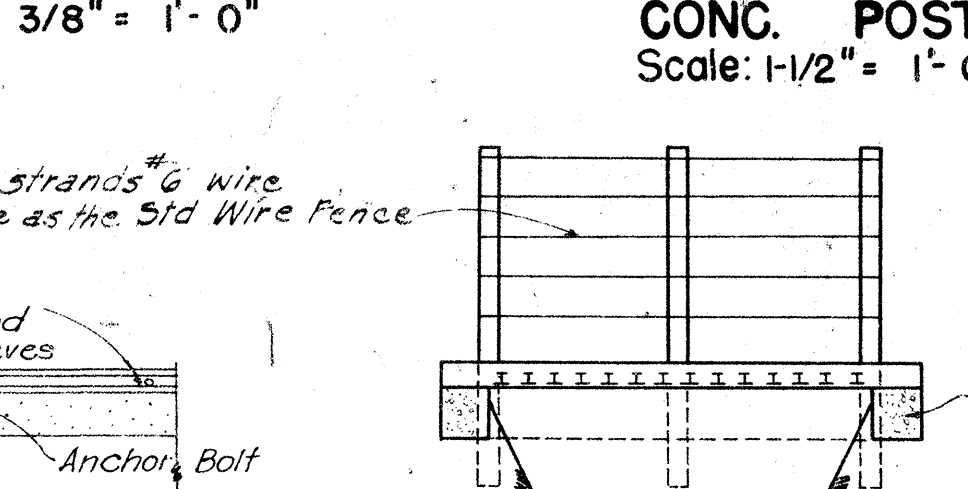
INDUSTRIAL TRACK CROSSING
Scale: 1-1/2" = 1'-0"

STANDARD WOOD GUARD RAIL
Scale: 3/8" = 1'-0"

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



STANDARD WOOD GUARD RAIL
Scale: 3/8" = 1'-0"



STANDARD WOOD GUARD RAIL
Scale: 3/8" = 1'-0"

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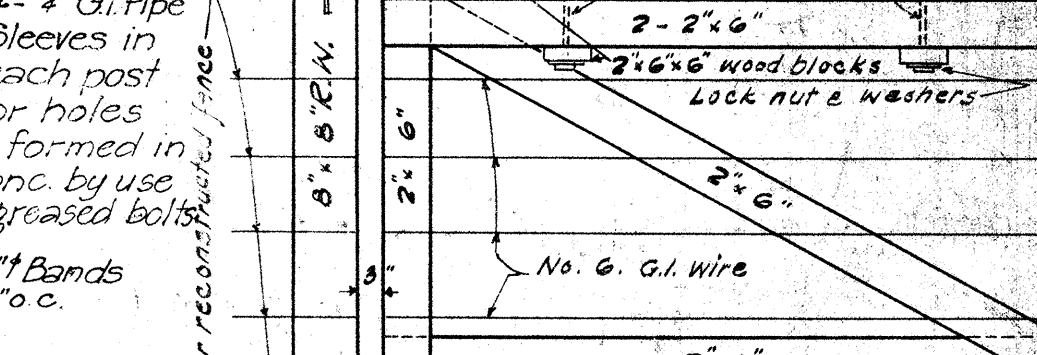
STANDARD WOOD GUARD RAIL
Scale: 3/8" = 1'-0"

STANDARD WOOD GUARD RAIL
Scale: 3/8" = 1'-0"

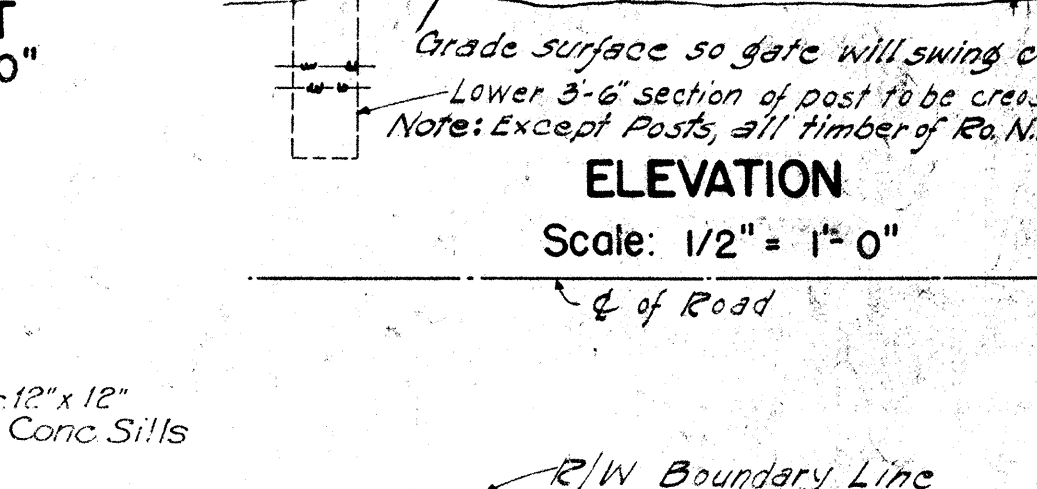
STANDARD WOOD GUARD RAIL
Scale: 3/8" = 1'-0"

DETAIL OF STANDARD OUTLET DITCH
Scale: 1/2" = 1'-0"

NOTE: Suggest holes in rail for bolts be bored from back of post after lining up and temporarily fastening rails.



DETAIL OF STANDARD OUTLET DITCH
Scale: 1/2" = 1'-0"



DETAIL OF STANDARD OUTLET DITCH
Scale: 1/2" = 1'-0"

DETAIL OF STANDARD OUTLET DITCH
Scale: 1/2" = 1'-0"

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DETAIL OF STANDARD OUTLET DITCH
Scale: 1/2" = 1'-0"

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

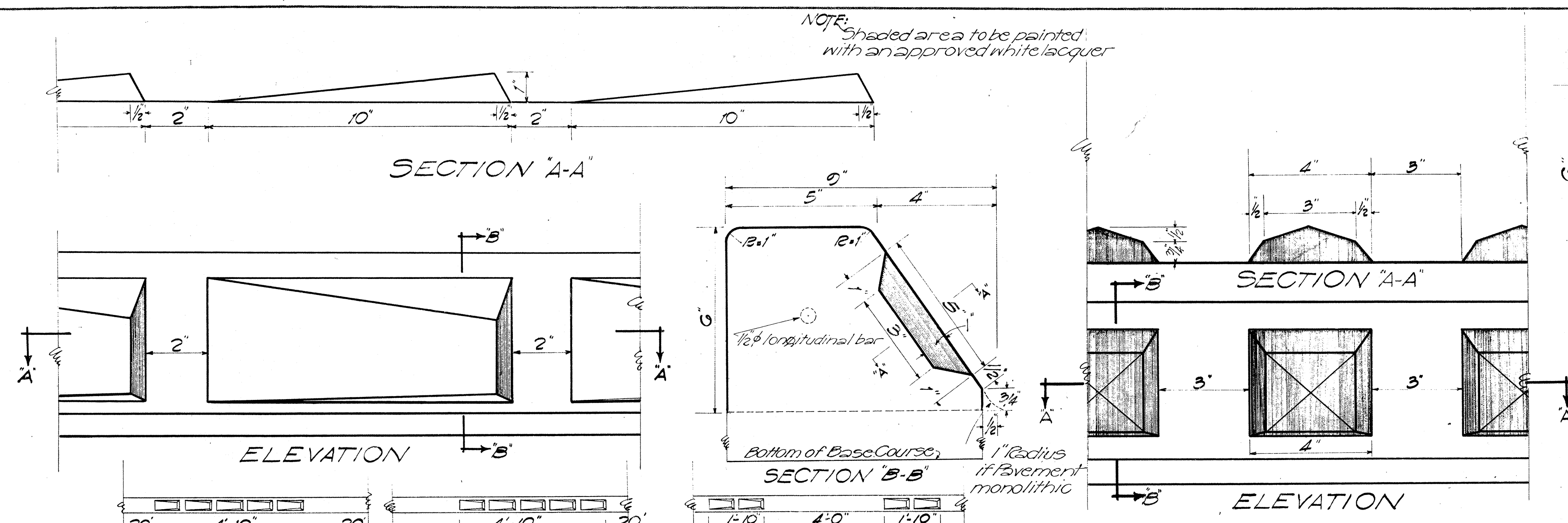
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII

STANDARD DETAILS

SCALES AS NOTED
APPROVED: [Signature]
Territorial Highway Engineer

SHEET NO. 1 OF 6 SHEETS

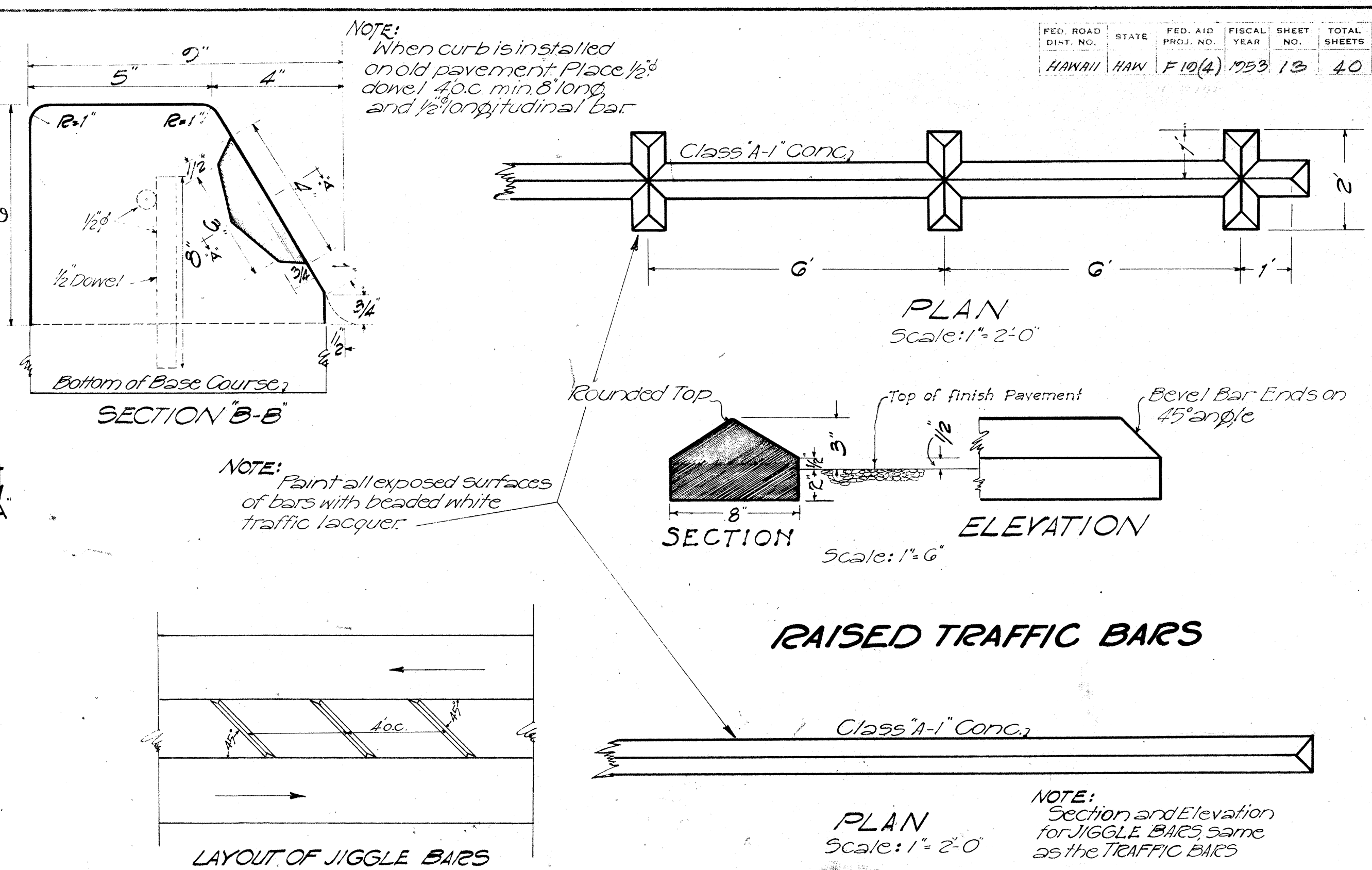
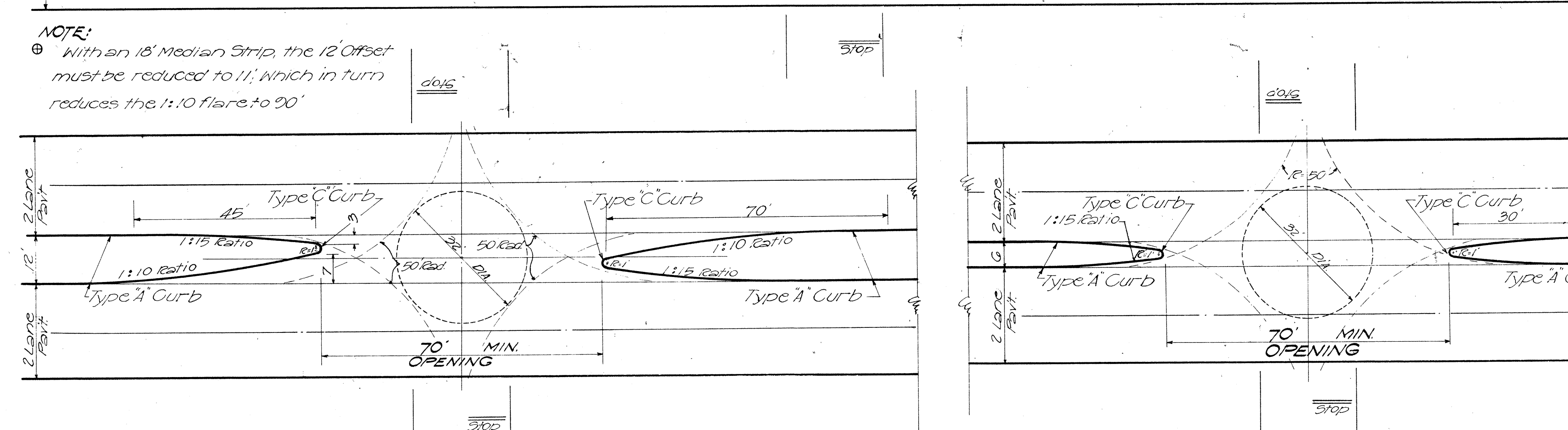
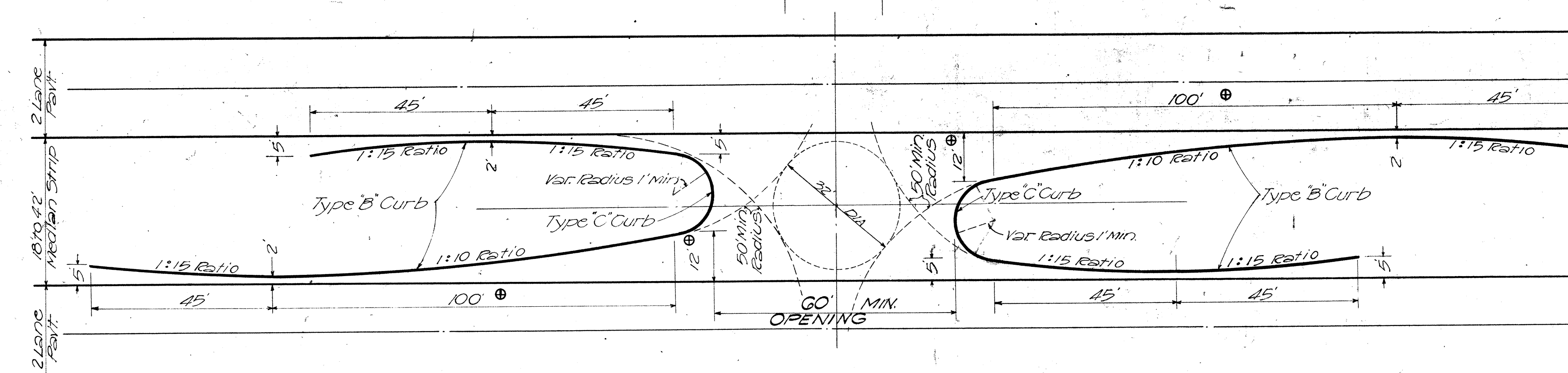
5605.10



TYPE "A" CAST-IN-PLACE CONCRETE CURB
Scale: 3/8"=1'-0"
NOTE: This type and spacing of recesses to be used where medians are curved continuously.

TYPE "B" CAST-IN-PLACE CONCRETE CURB
Scale: 3/8"=1'-0"
NOTE: This type and spacing of recesses to be used on islands at intersections.

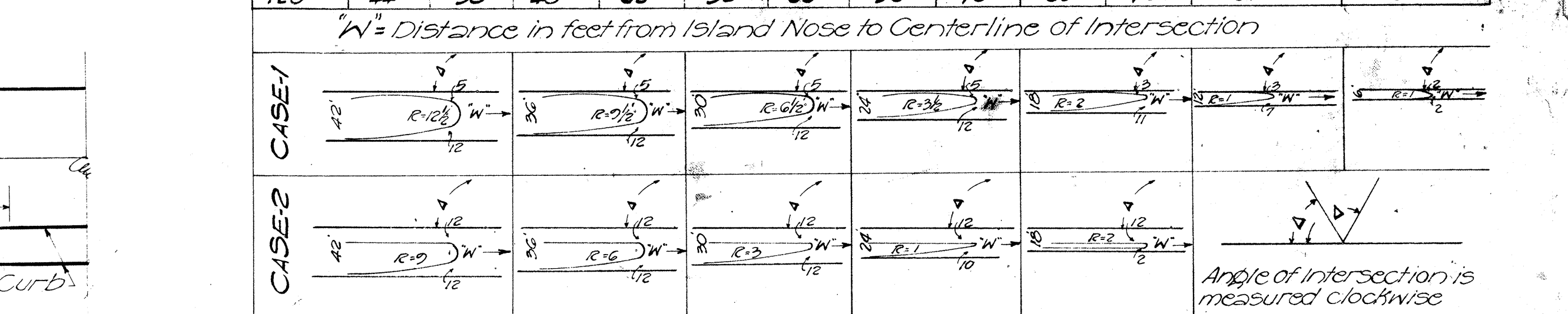
TYPE "C" CAST-IN-PLACE CONCRETE CURB
Scale: 3/8"=1'-0"
NOTE: This type and spacing of recesses to be used on curb returns.



LAYOUT OF JIGGLE BARS
Not drawn to scale

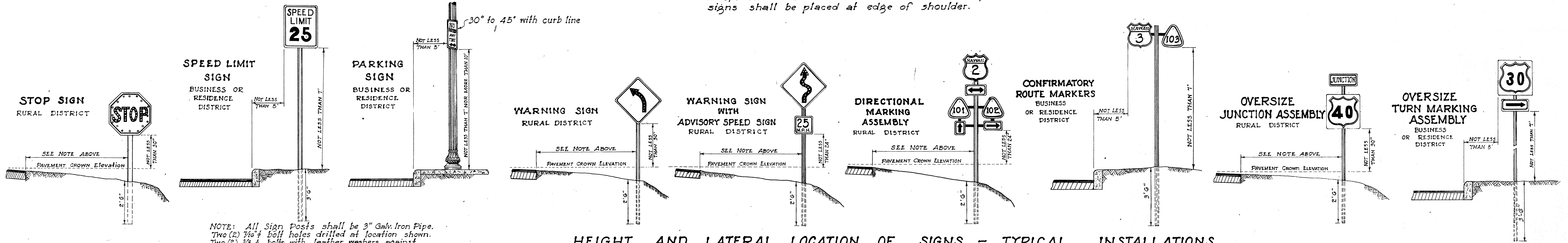
NOTE: Section and Elevation for JIGGLE BARS same as the TRAFFIC BARS

Angle of Inters.	WIDTH OF MEDIAN STRIP									
	42'	36'	30'	24'	18'	12'	6'	4'	3'	2'
42°	54	58	62	66	70	74	78	82	86	90
45°	48	52	56	60	64	68	72	76	80	84
50°	42	46	50	54	58	62	66	70	74	78
55°	36	40	44	48	52	56	60	64	68	72
60°	30	34	38	42	46	50	54	58	62	66
65°	24	28	32	36	40	44	48	52	56	60
70°	20	24	28	32	36	40	44	48	52	56
75°	18	22	26	30	34	38	42	46	50	54
80°	16	20	24	28	32	36	40	44	48	52
85°	14	18	22	26	30	34	38	42	46	50
90°	12	16	20	24	28	32	36	40	44	48
95°	10	14	18	22	26	30	34	38	42	46
100°	8	12	16	20	24	28	32	36	40	44
105°	6	10	14	18	22	26	30	34	38	42
110°	4	8	12	16	20	24	28	32	36	40
115°	2	6	10	14	18	22	26	30	34	38
120°	0	4	8	12	16	20	24	28	32	36

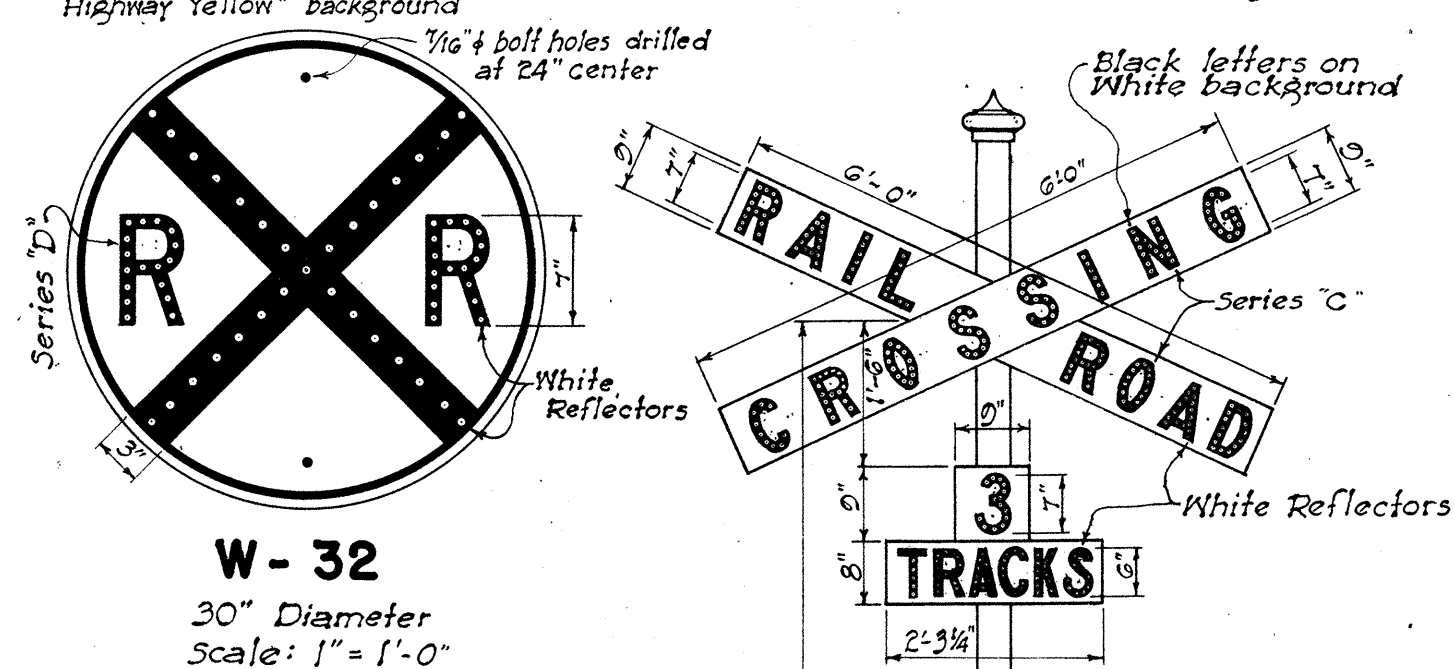


TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
STANDARD DETAILS
Scale as shown
APPROVED: *[Signature]* Date: 9-2-49
TERRITORIAL HIGHWAY ENGINEER

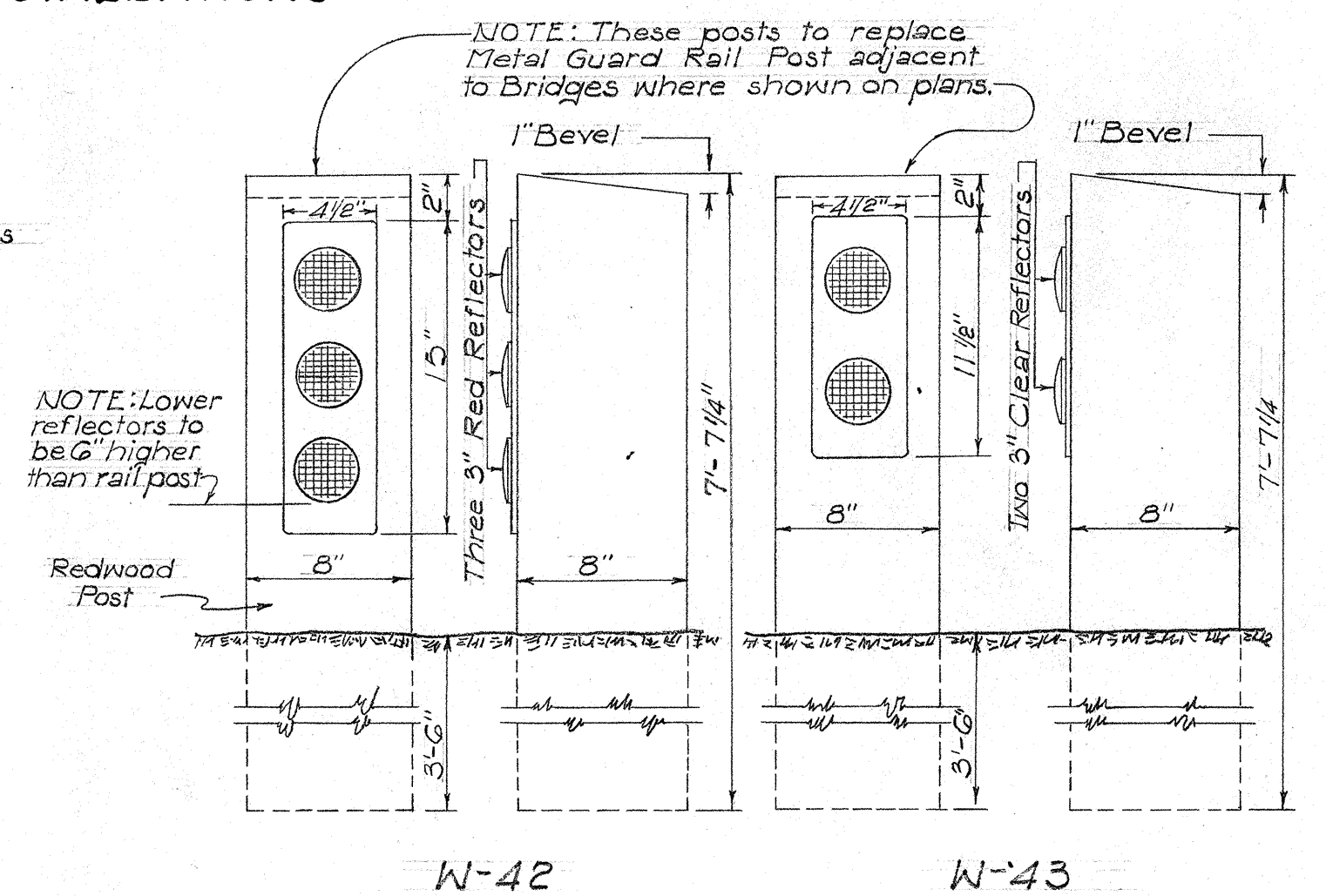
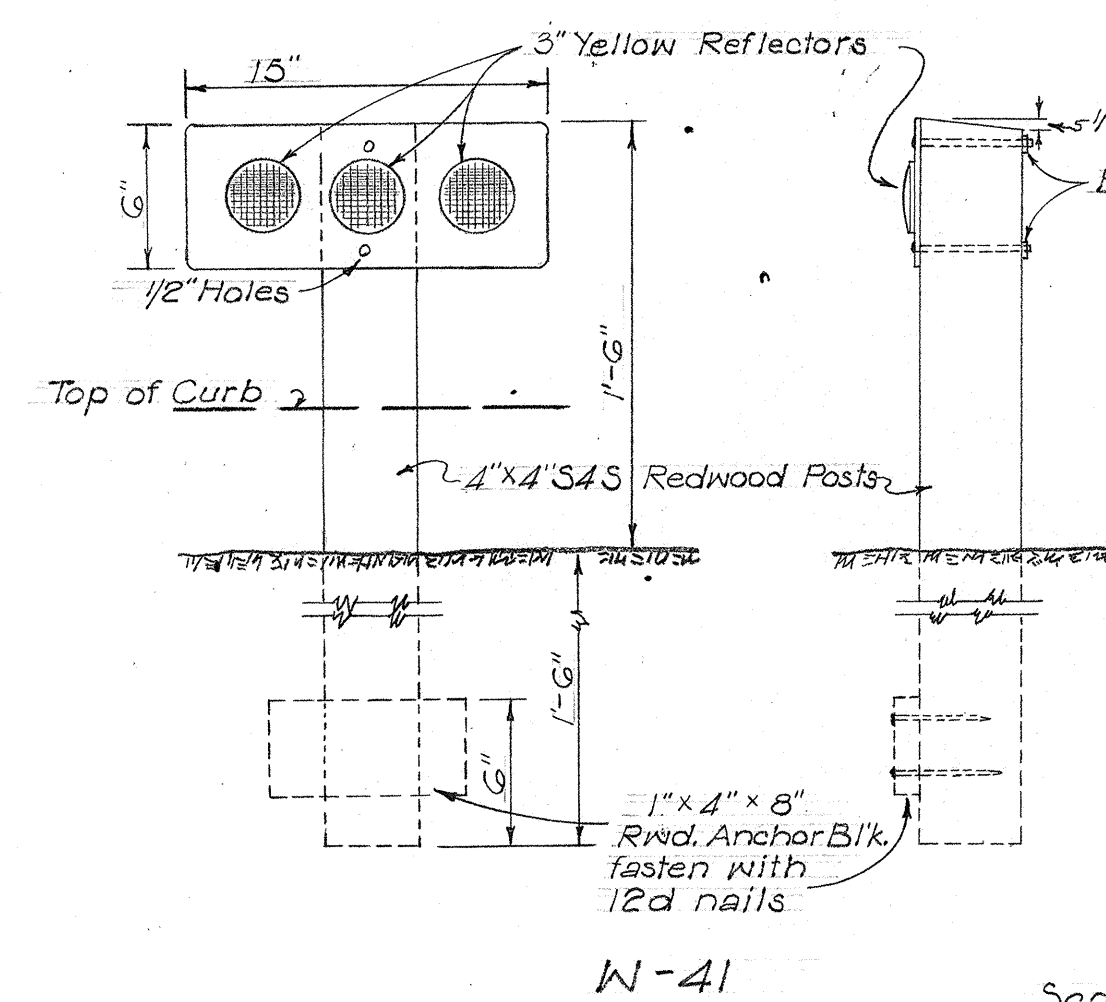
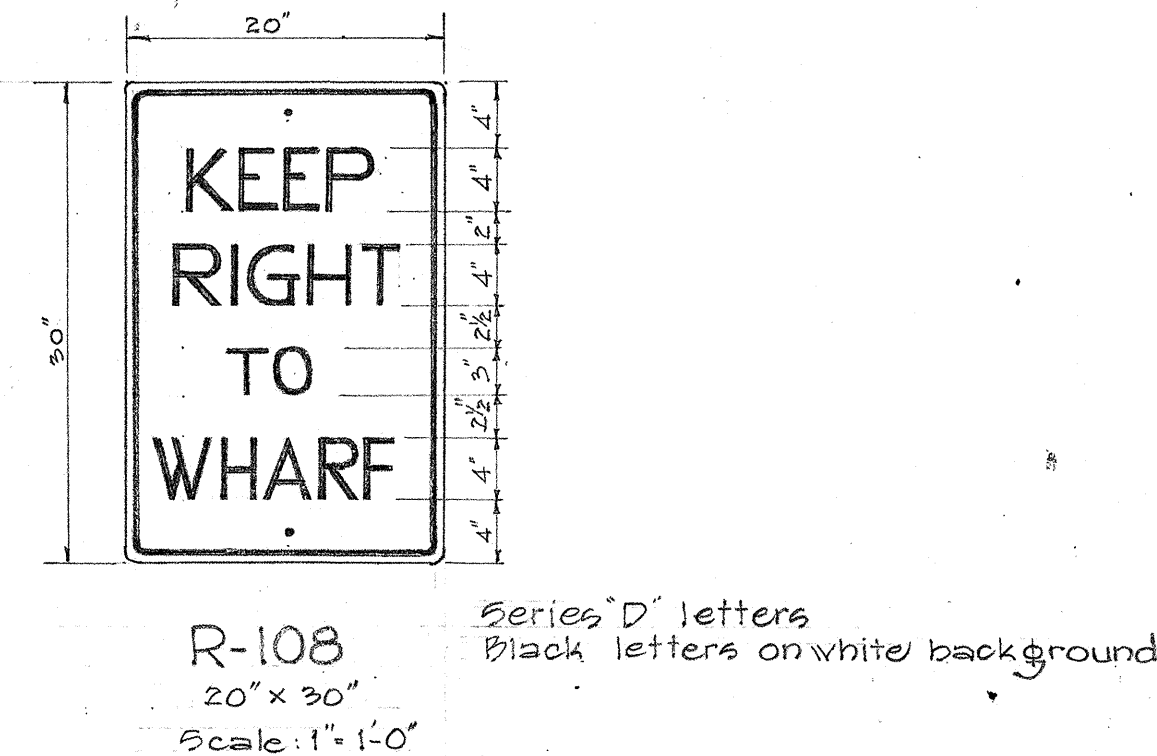
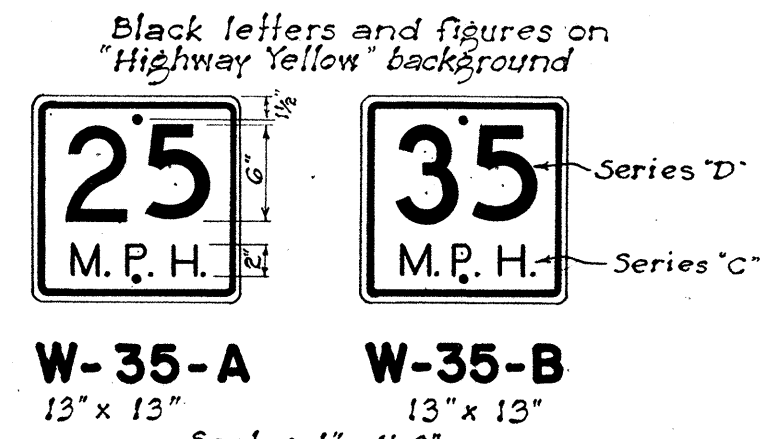
Note: All signs shall be placed 10' from edge of pavement except where shoulder width is less than 10', in which case signs shall be placed at edge of shoulder.



HEIGHT AND LATERAL LOCATION OF SIGNS - TYPICAL INSTALLATIONS
Scale: 1" = 3'-0"



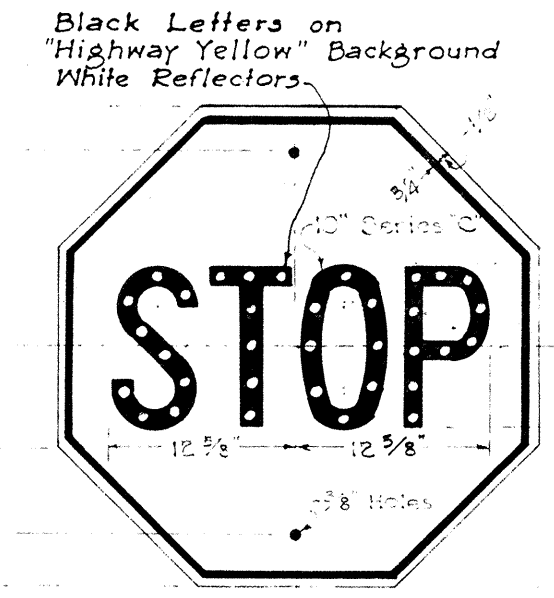
NOTE: This sign shall be placed from 300 to 500 feet from R. R. intersections in rural areas and a minimum distance of 100 feet from R. R. intersections in Residence or Business districts.



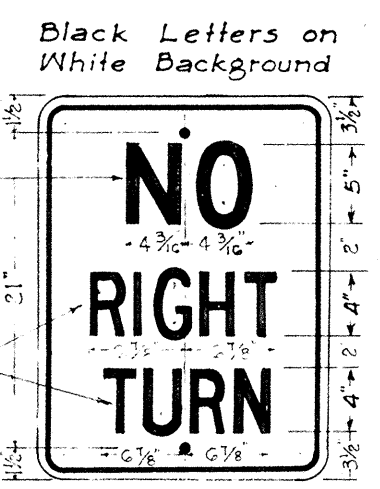
NOTE: This marker shall be installed opposite and at the same height as marker W-42

ORIGINAL PLAN	DATE
DESIGNED BY	
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES CHECKED BY	
CHECKED BY	

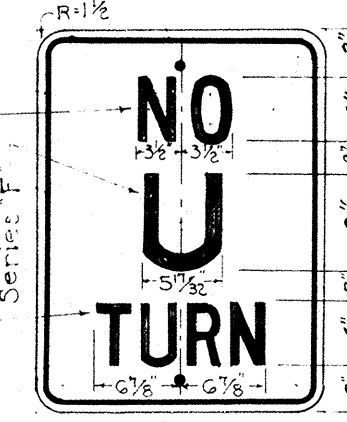
TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
REGULATORY & WARNING SIGNS
SCALE AS NOTED
APPROVED: *[Signature]*
Territorial Highway Engineer
May 31, 1949



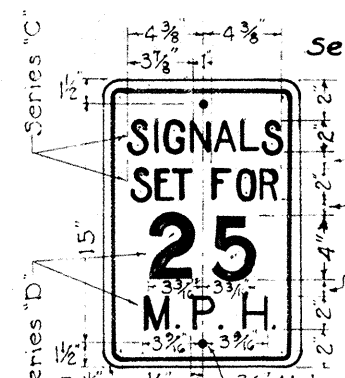
R-1
30" x 30"



R-6
18" x 24"



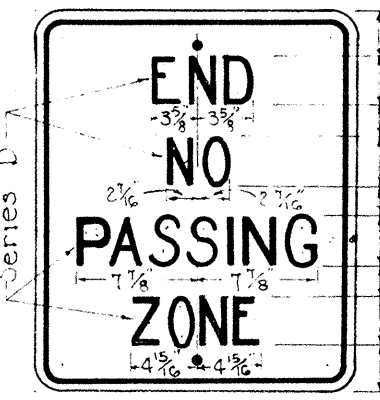
R-8
18" x 24"



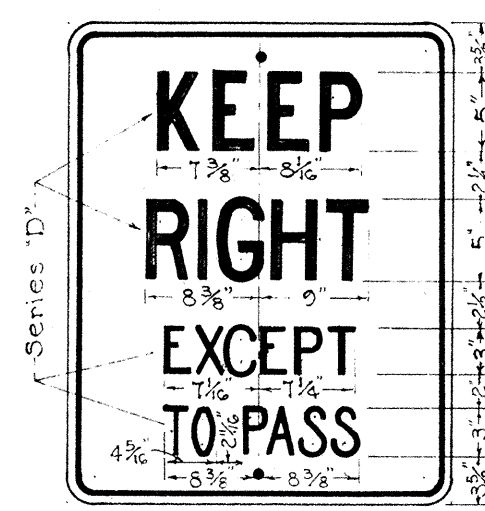
R-10
12" x 18"



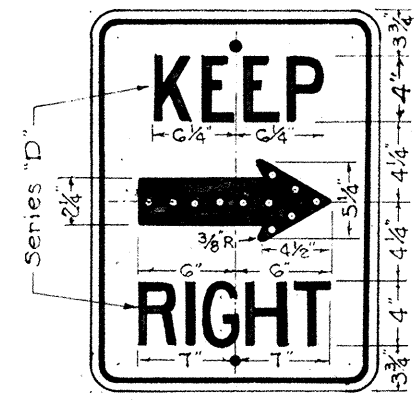
R-11
20" x 24"



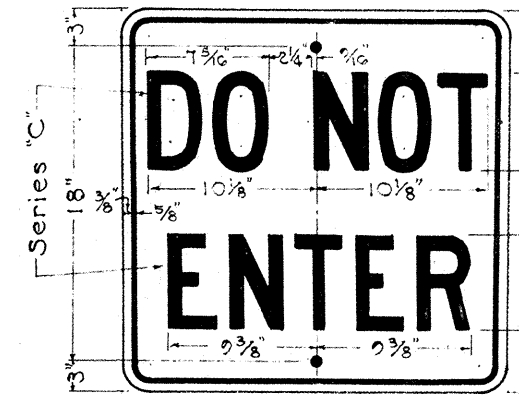
R-12
20" x 24"



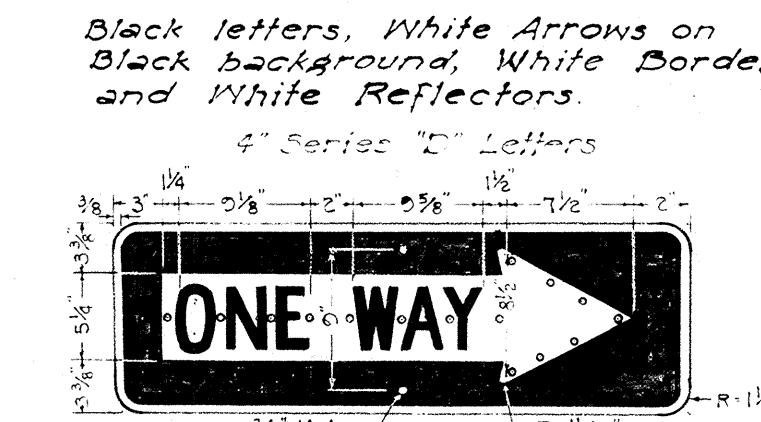
R-13
24" x 30"



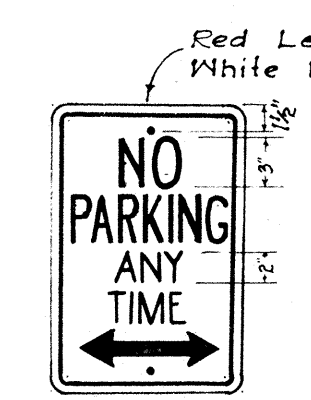
R-14
18" x 24"



R-15
24" x 24"



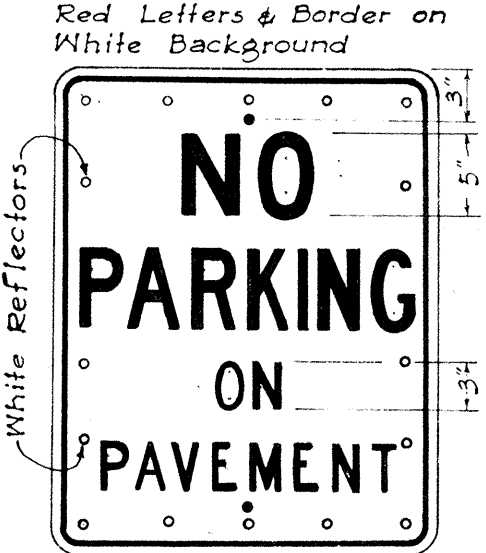
R-16-R
*R-16-L
36" x 12"



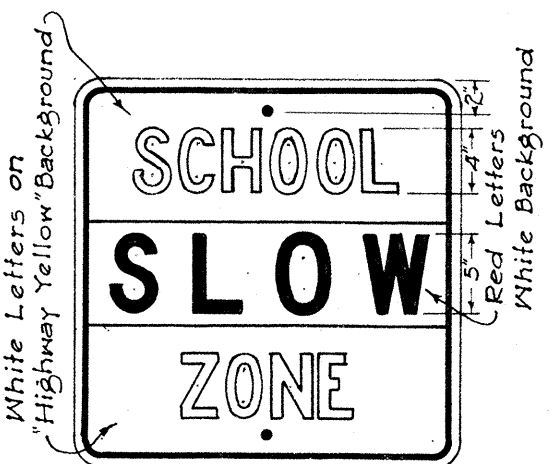
R-18
12" x 18"



R-26
12" x 18"



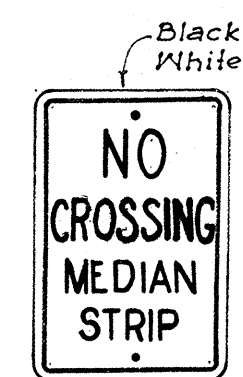
R-29
24" x 30"



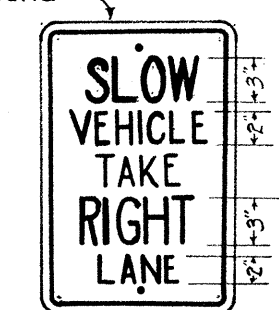
R-41-S
24" x 24"



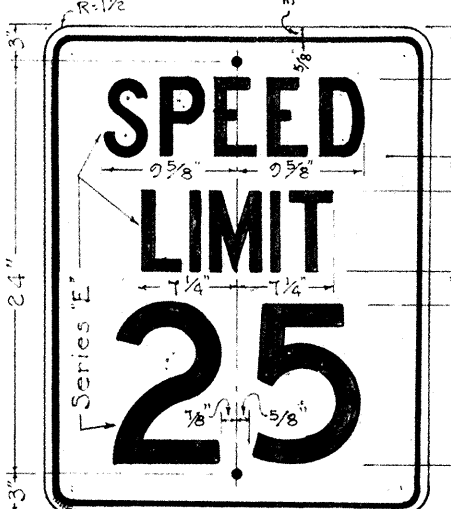
R-42-S
12" x 18"



R-43-S
12" x 18"



R-44-S
12" x 18"



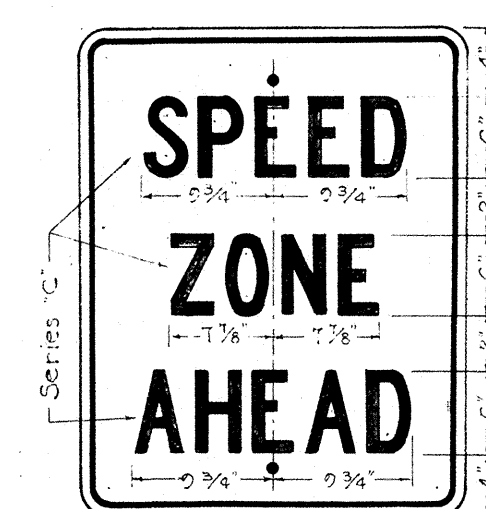
R-102-A
24" x 30"



R-102-B
24" x 30"



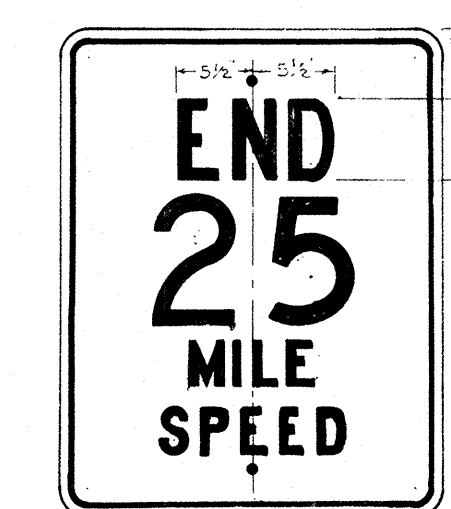
R-102-C
24" x 30"



R-104
24" x 30"



R-105-A
24" x 30"



R-105-B
24" x 30"



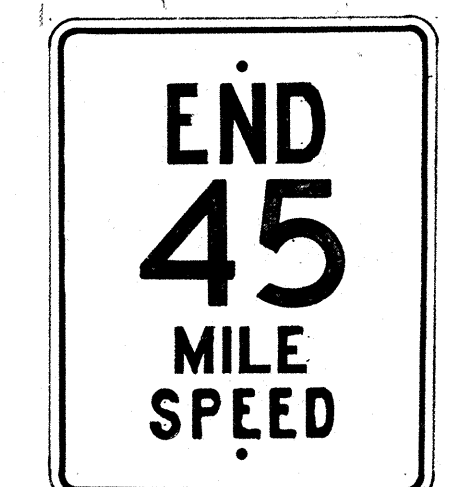
R-105-C
24" x 30"



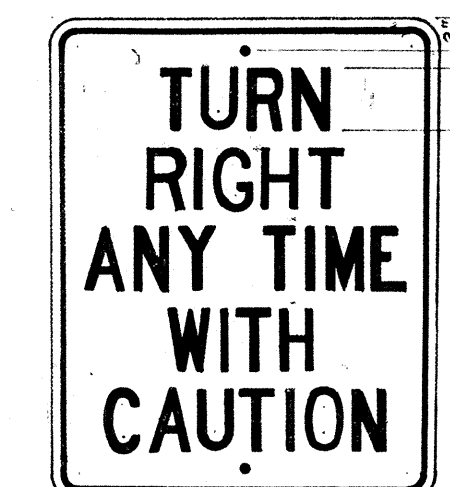
R-105-D
24" x 30"



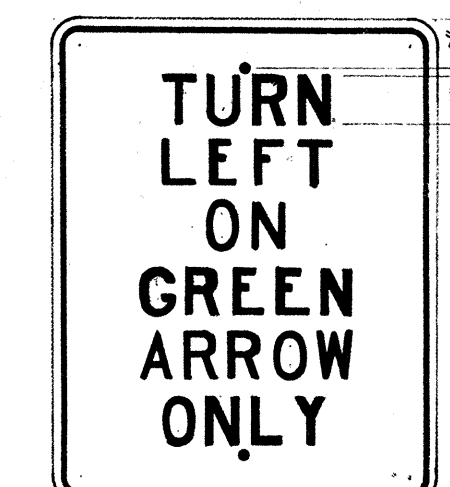
R-105-E
24" x 30"



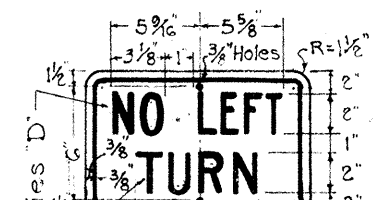
R-105-F
24" x 30"



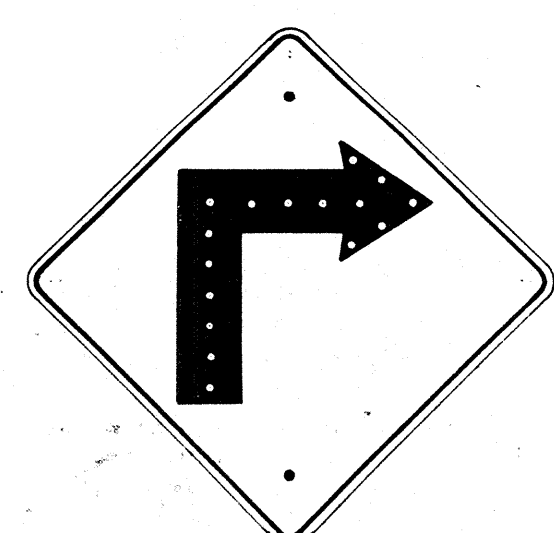
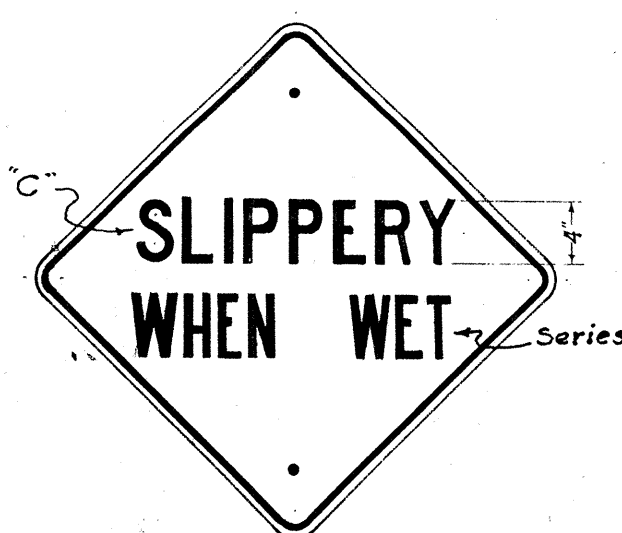
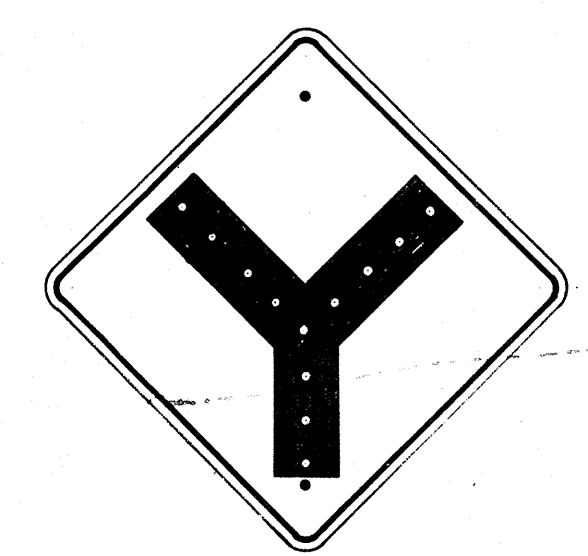
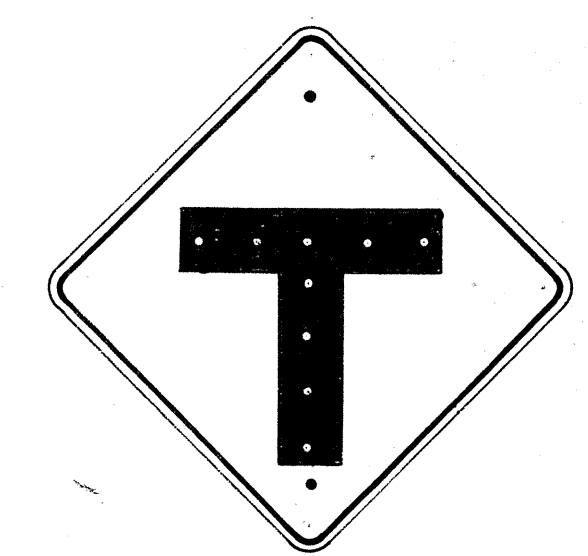
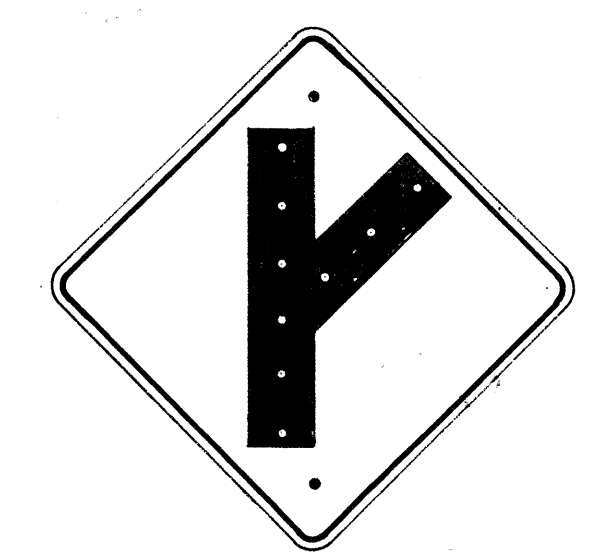
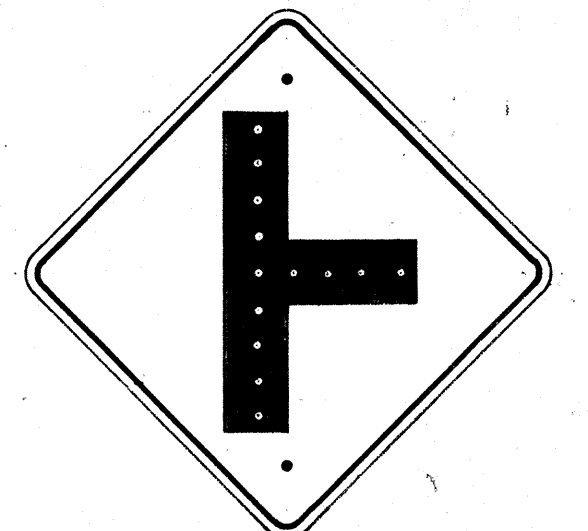
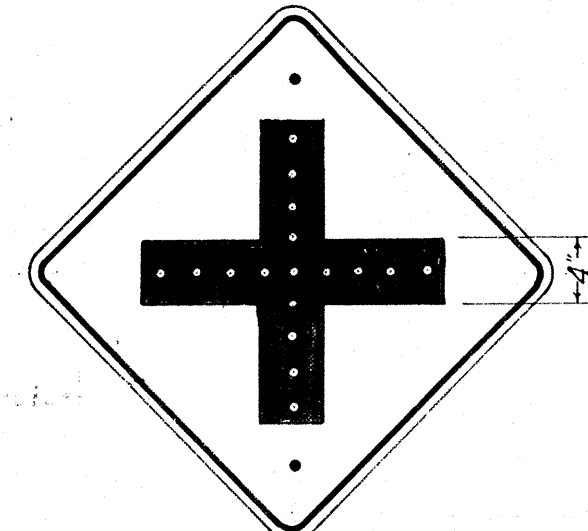
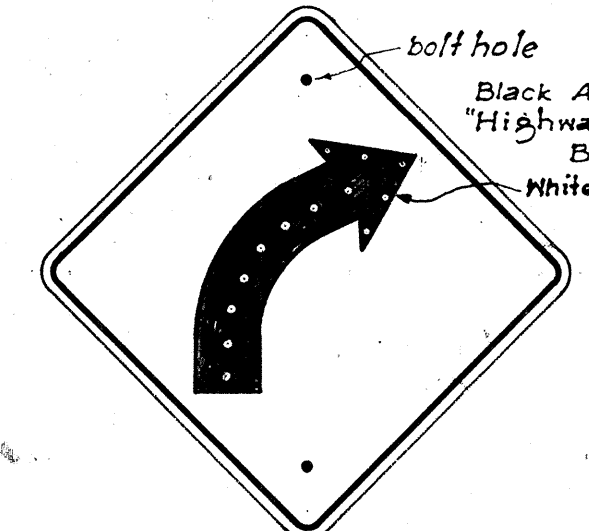
R-106
24" x 30"



R-107-A
24" x 30"



R-107
14" x 9"



All letters and figures shall be of size and design shown and shall conform with Standard Alphabets for Highway signs as set forth by the Public Roads Administration, Federal Works Agency. Series "C" letters and Series "D" numerals shall be used except where noted.

Note: All Regulatory (R) signs shall have black letters on a white background except where noted. All Warning (W) signs shall have black letters or figures on a "Highway Yellow" background. *Signs shall be similar but opposite in direction. See Specifications for Materials and Finish.

TERRITORIAL HIGHWAY DEPARTMENT
TERRITORY OF HAWAII
REGULATORY & WARNING SIGNS
Scale: 1" = 1'
APPROVED: *[Signature]* May 31, 1949
TERRITORIAL HIGHWAY ENGINEER
SHEET No 6 OF 6 SHEETS

DATE
DESIGNED BY
CHECKED BY
ORIGINAL
PLAN
NOTE BOOK
No.