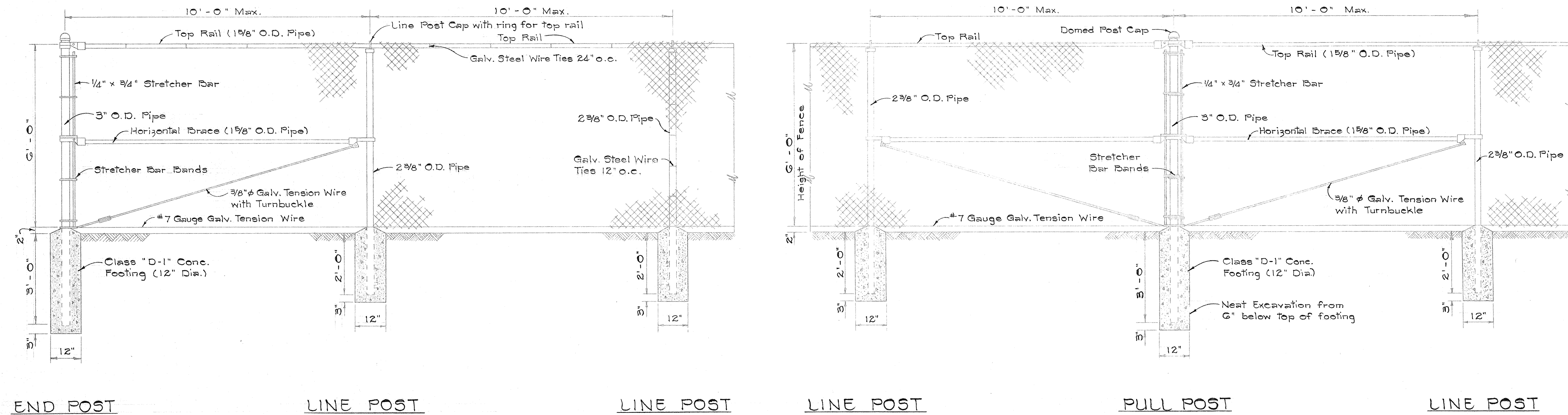
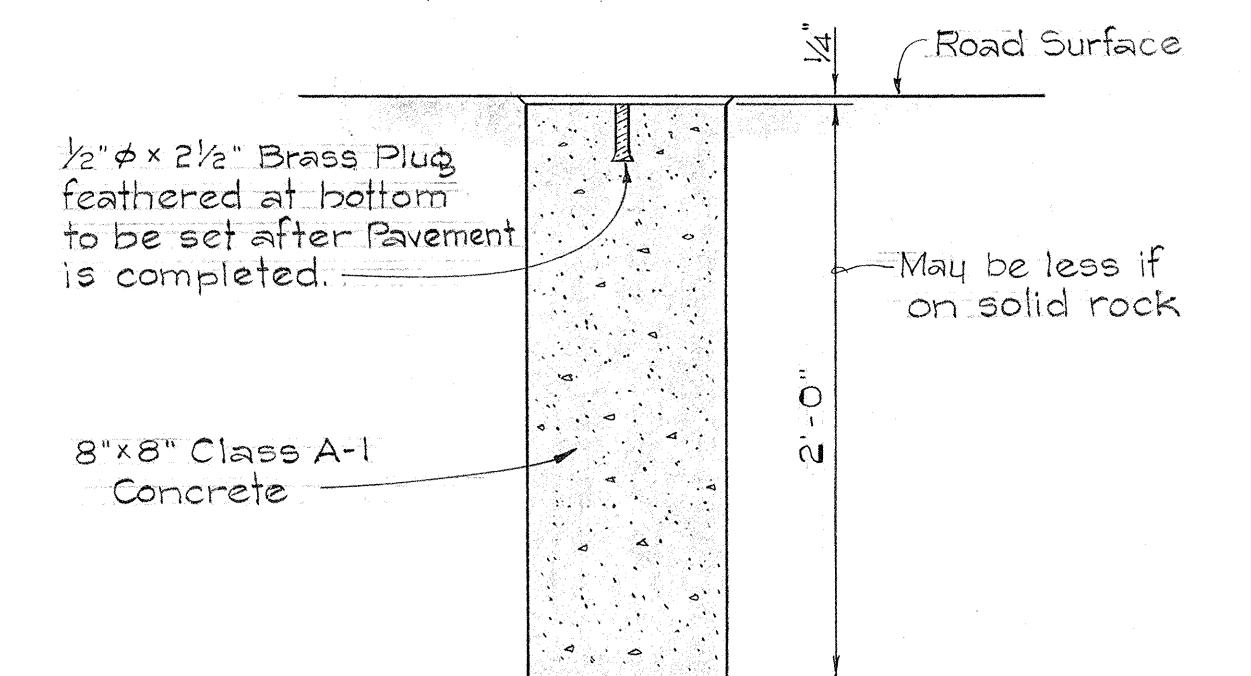
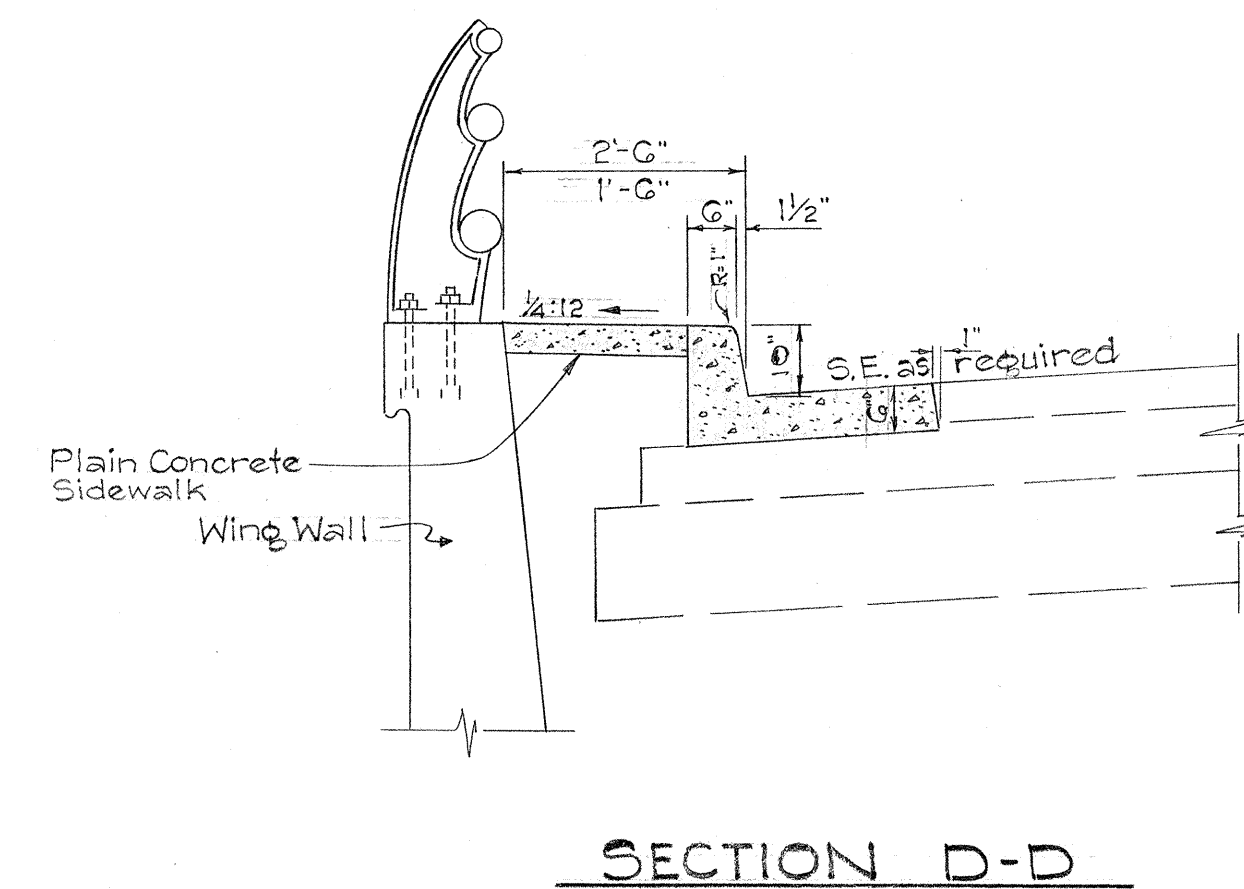
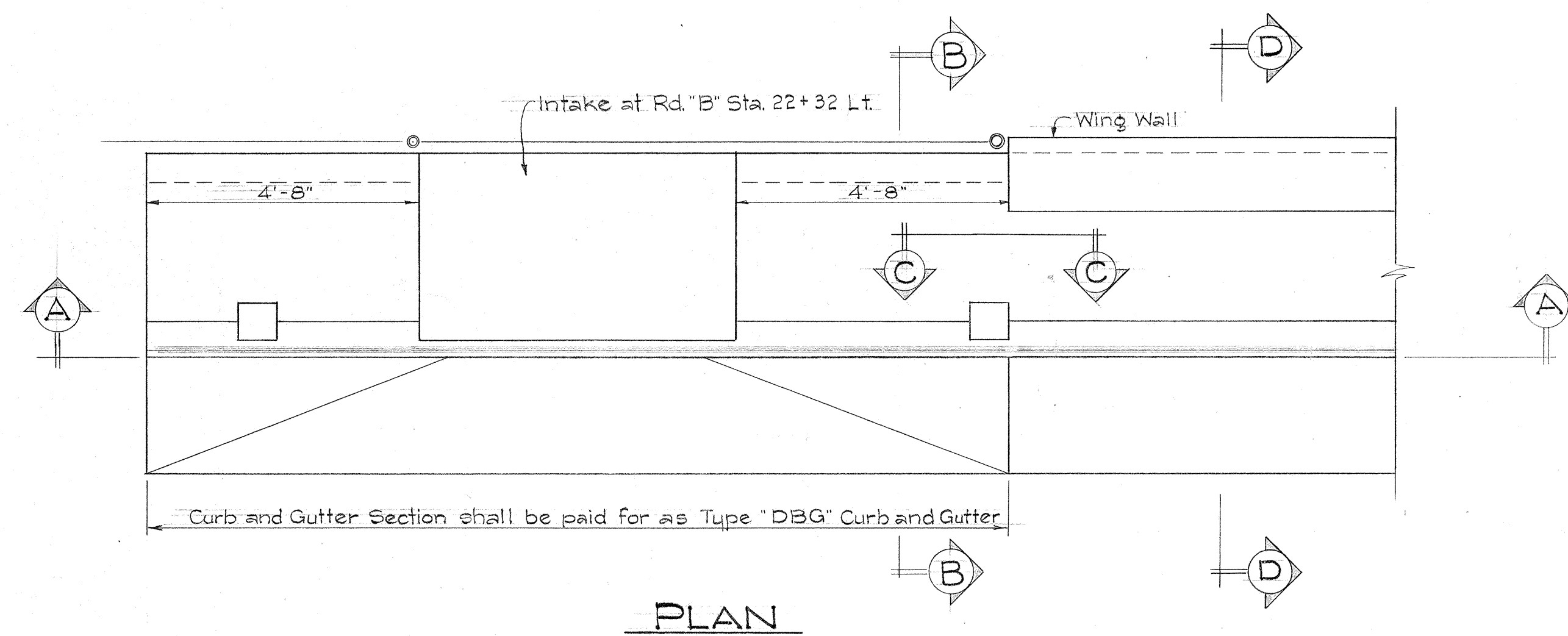
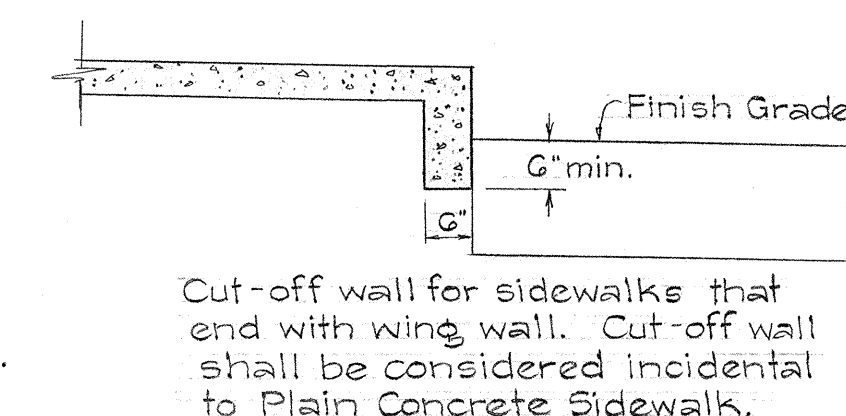
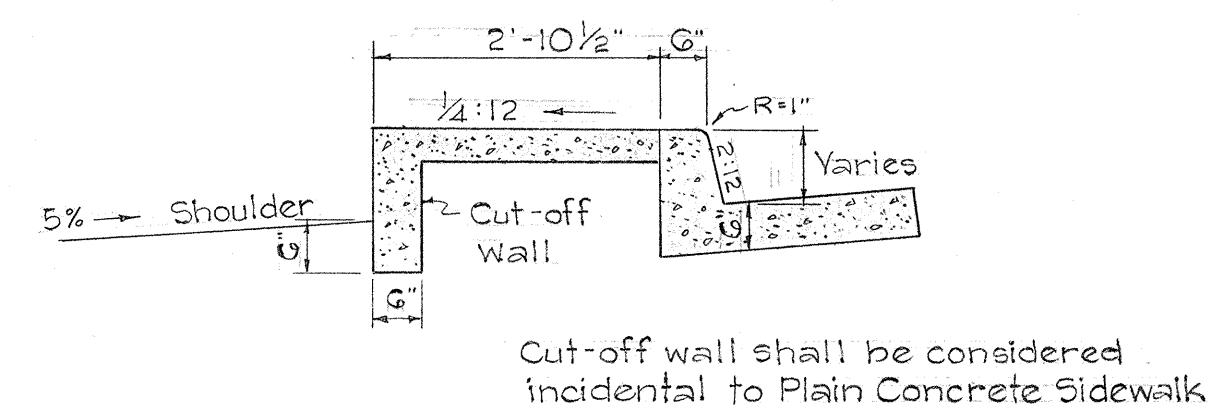
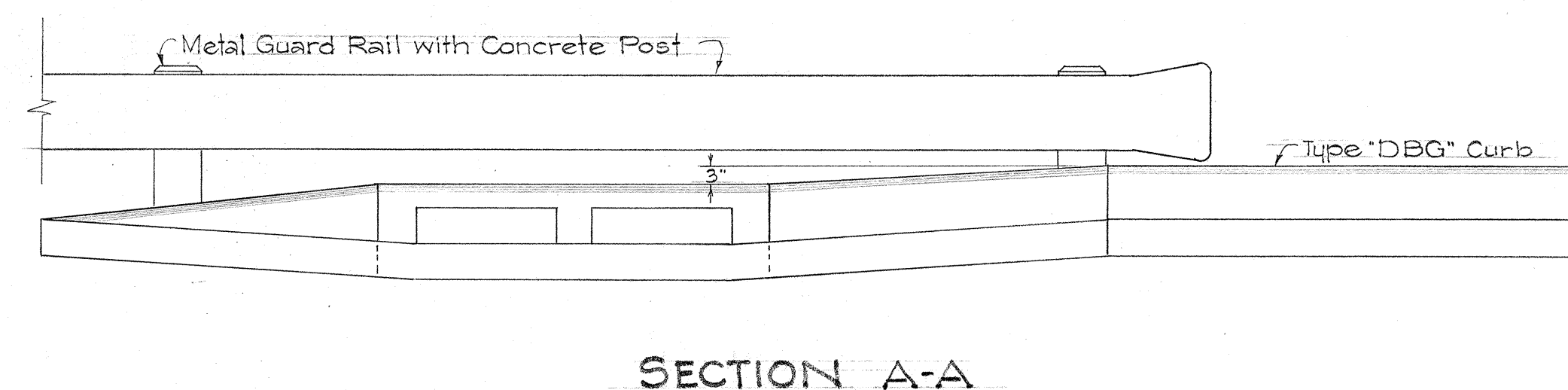




CHAIN LINK FENCE DETAILS
Scale: 1/2" = 1'-0"



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



SIDEWALK AND CURB & GUTTER SECTIONS
@ FARRINGTON HIGHWAY SEPARATION
Scale: 1/2" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

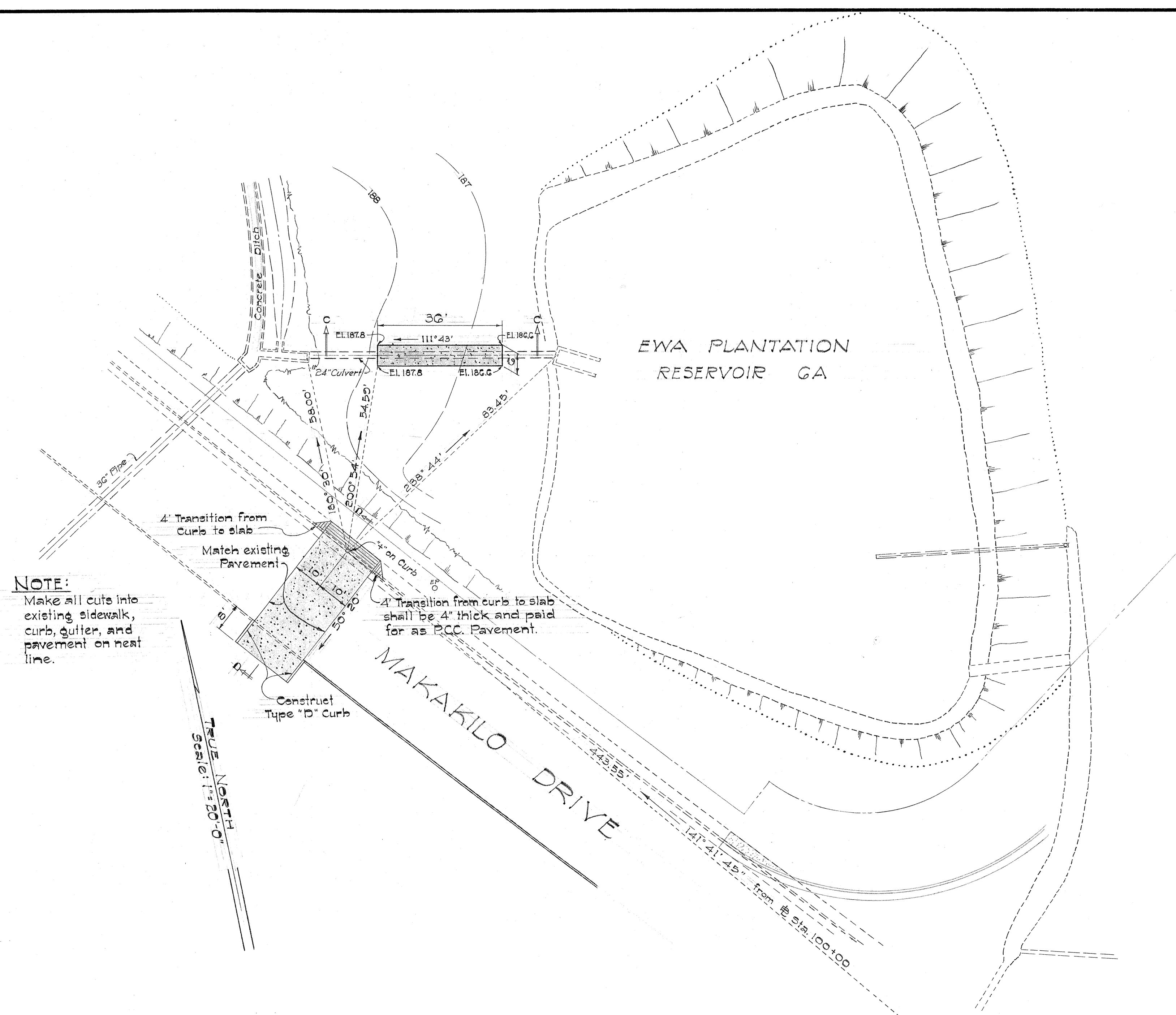
MISCELLANEOUS
ROADWAY DETAILS

INTERSTATE ROUTE H-1
F.A.I. Proj. No. I-HI-1 (17) UNIT 1

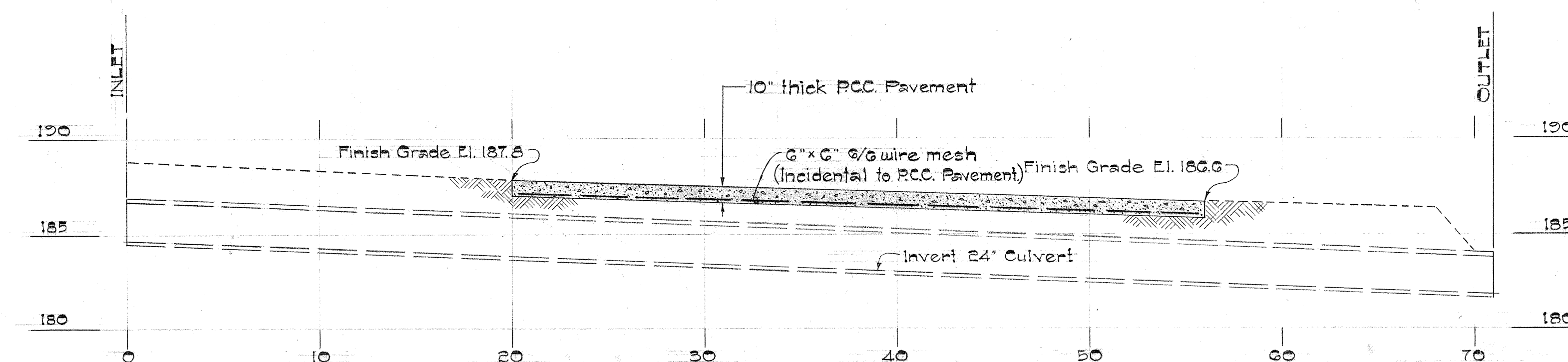
Scale: As Shown Date: Sept. 1964

SHEET NO. 1 OF 5 SHEETS

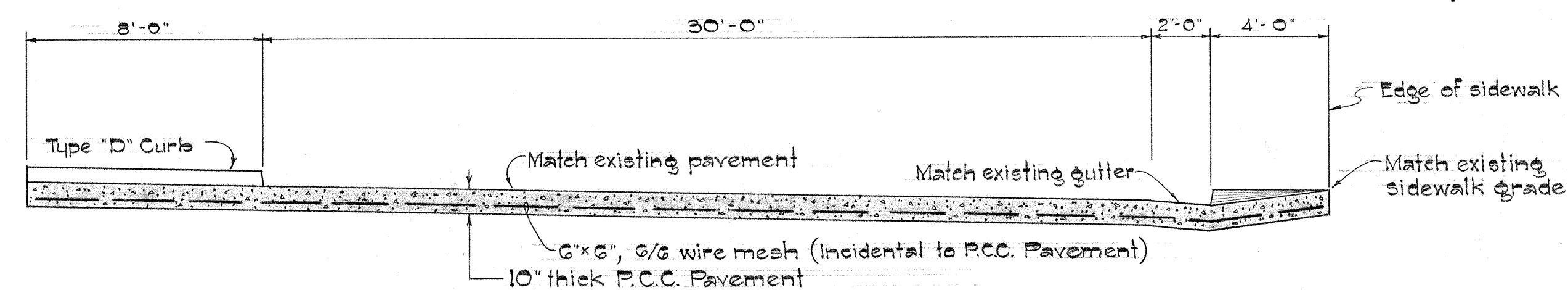
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1 (17) UNIT 1	1965	27	146



NOTE:
Make all cuts into existing sidewalk, curb, gutter, and pavement on next line.



SECTION C-C
Scale: 1" = 5'-0"



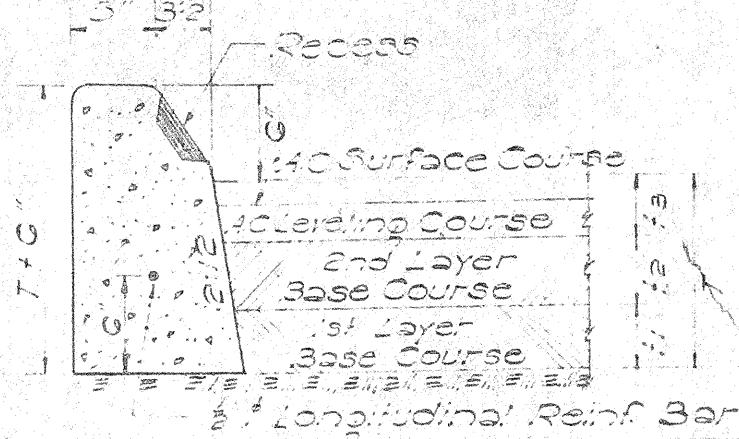
SECTION D-D
Scale: 1/2" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ROADWAY DETAIL
MAKAKILO DRIVE
TRACTOR CROSSING DETAIL

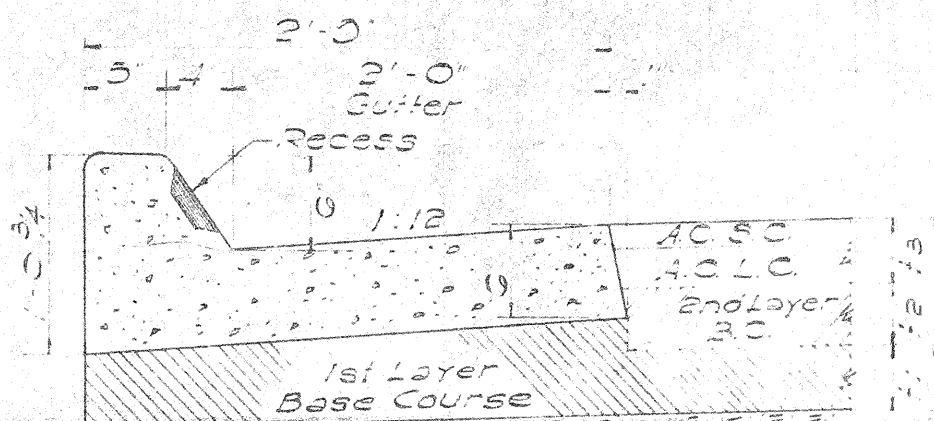
INTERSTATE ROUTE H-1
F.A.I. Proj. No. I-HI-1 (17), UNIT 1
Scale: As shown Date: Sept. 1964
SHEET No. 2 OF 5 SHEETS

2/17/60
9/22/61

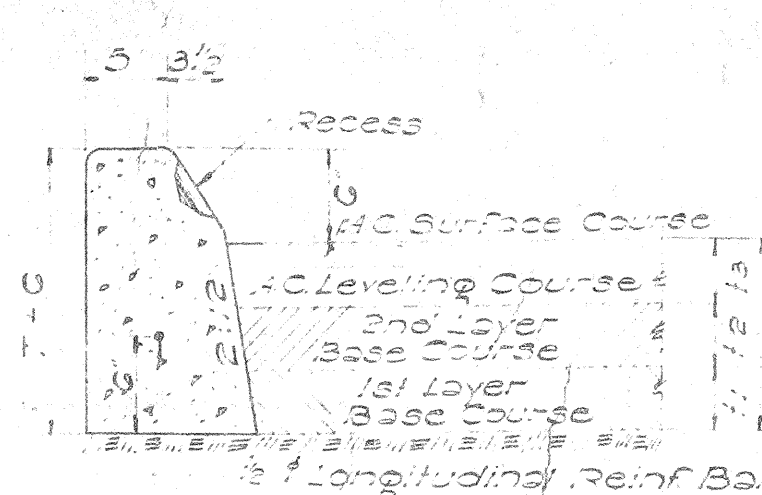
AUG. 1957



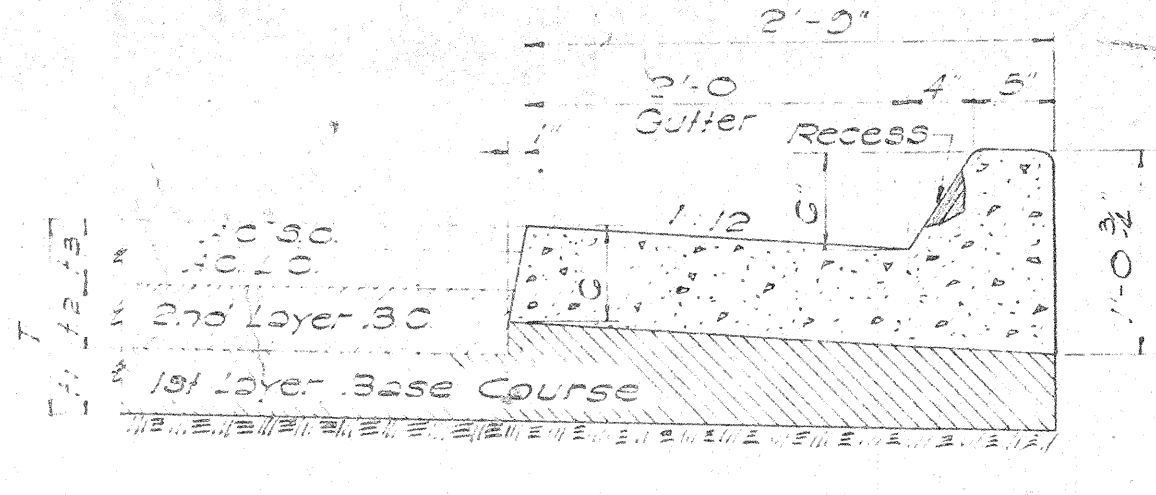
TYPE "A" & "B" CURB
SCALE: 1" = 1'-0"



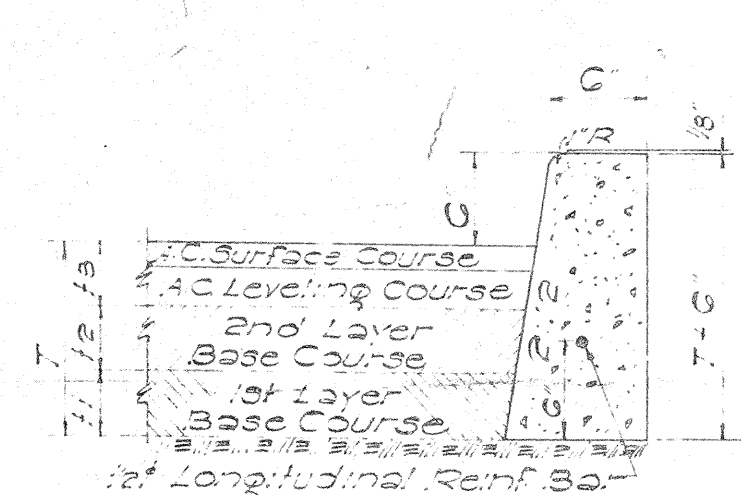
TYPE "AG" & "BG" CURB & GUTTER
SCALE: 1" = 1'-0"



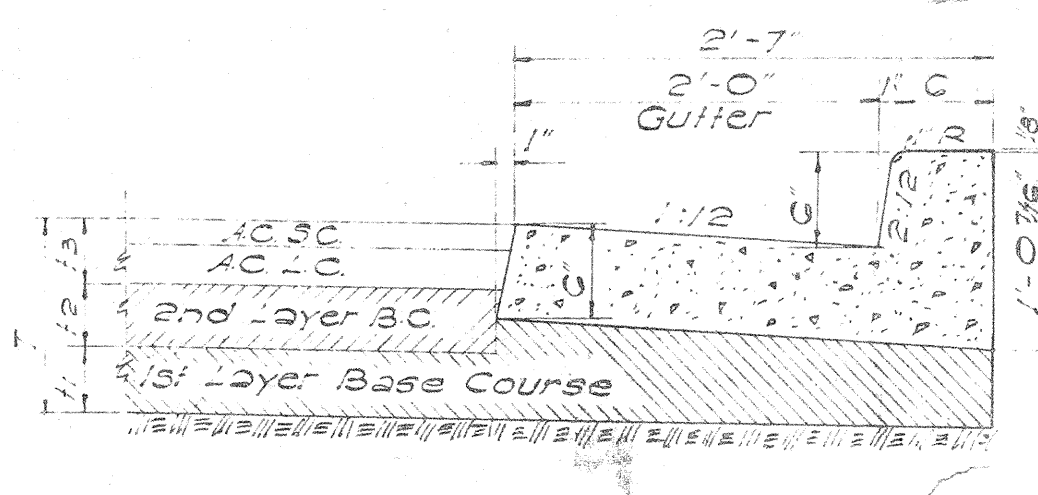
TYPE "C" CURB
SCALE: 1" = 1'-0"



TYPE "CG" CURB & GUTTER
SCALE: 1" = 1'-0"

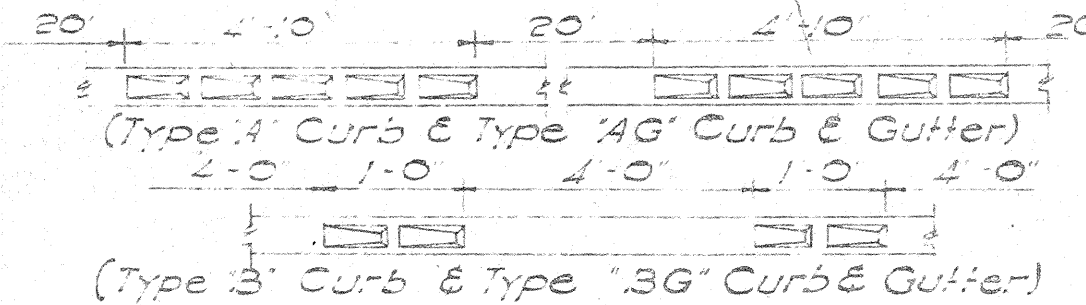


TYPE "D" CURB
SCALE: 1" = 1'-0"

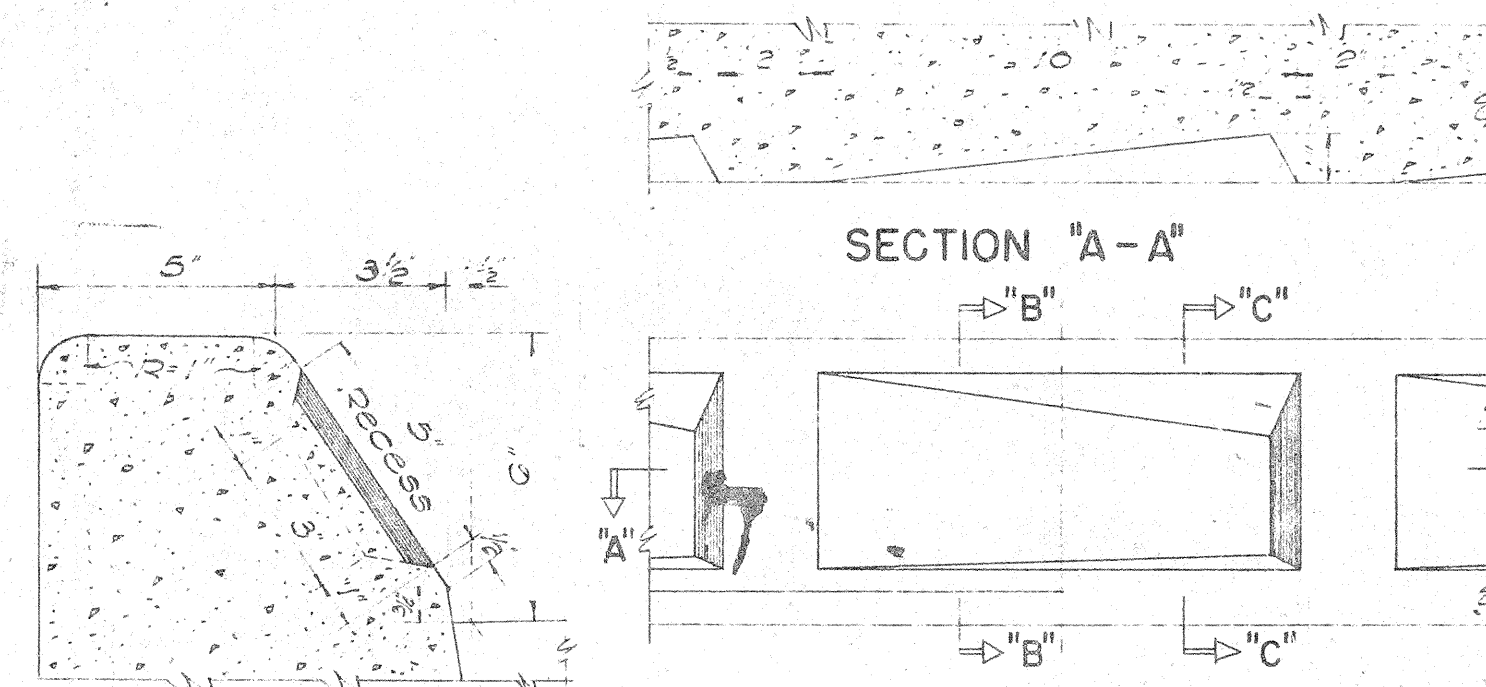


TYPE "DG" CURB & GUTTER
SCALE: 1" = 1'-0"

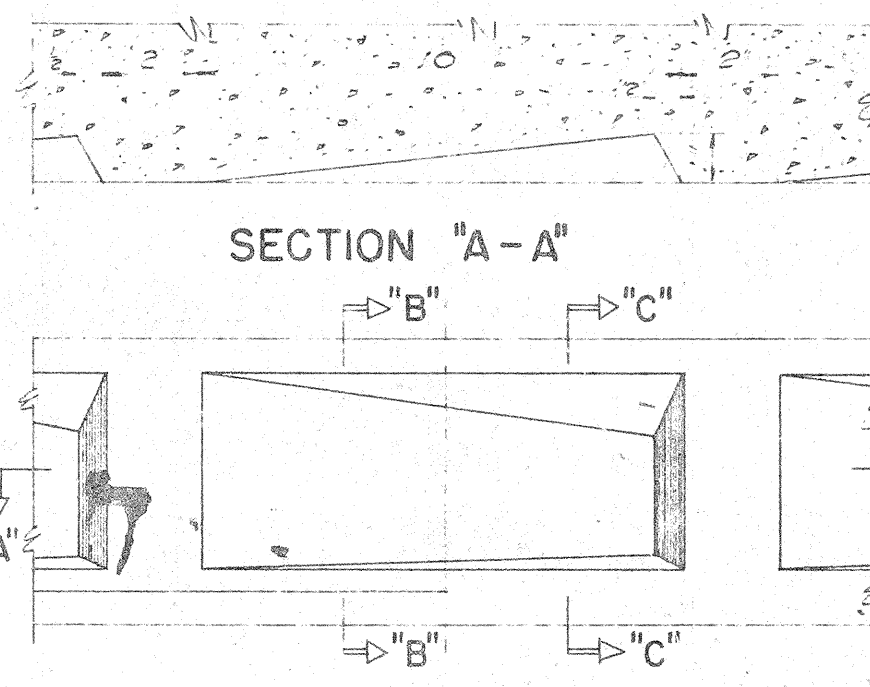
General Note Covering All Types of Curbs:
Occasionally curb rests on first layer of base course. See typical sections.



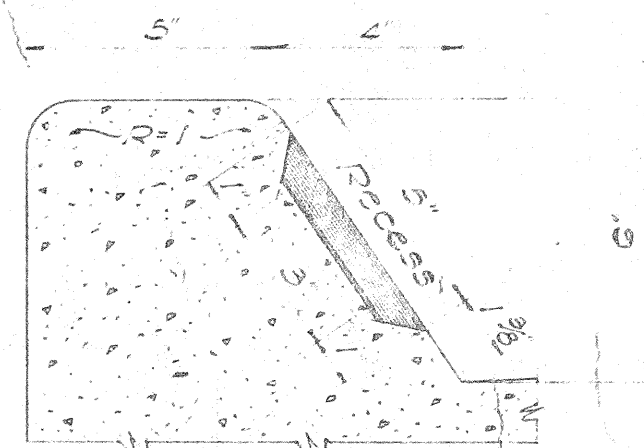
TYPE AND SPACING OF RECESSES



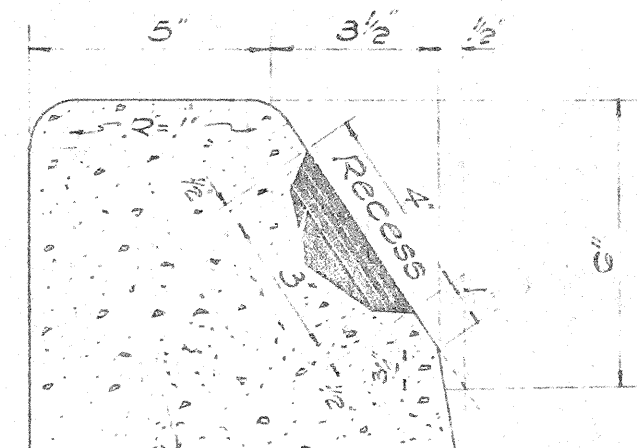
SECTION "A-A"
TYPE "A" & "B" CURB



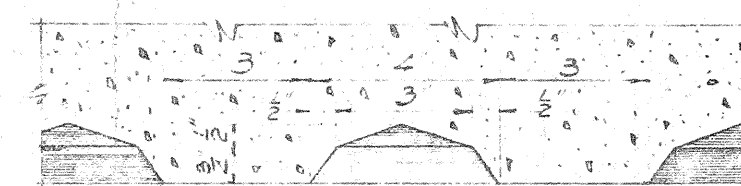
ELEVATION
SCALE: 3" = 1'-0"



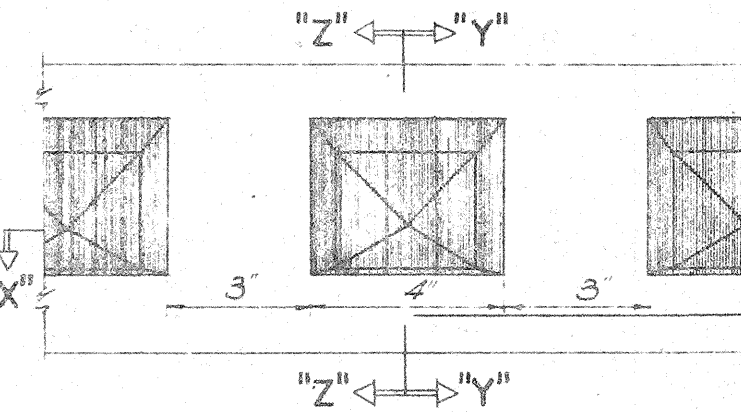
SECTION "C-C"
TYPE "AG" & "BG" CURB



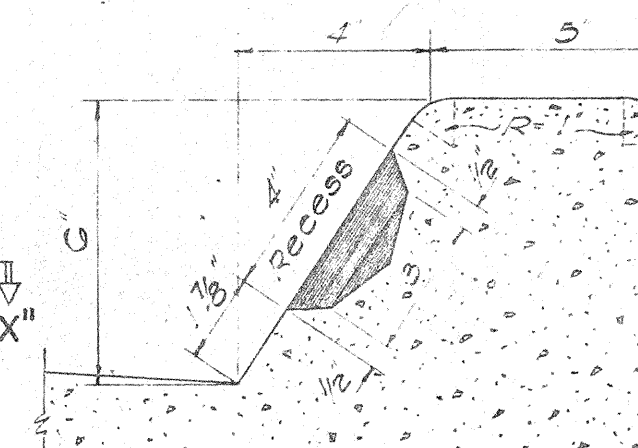
SECTION "Y-Y"
TYPE "C" CURB



SECTION "X-X"

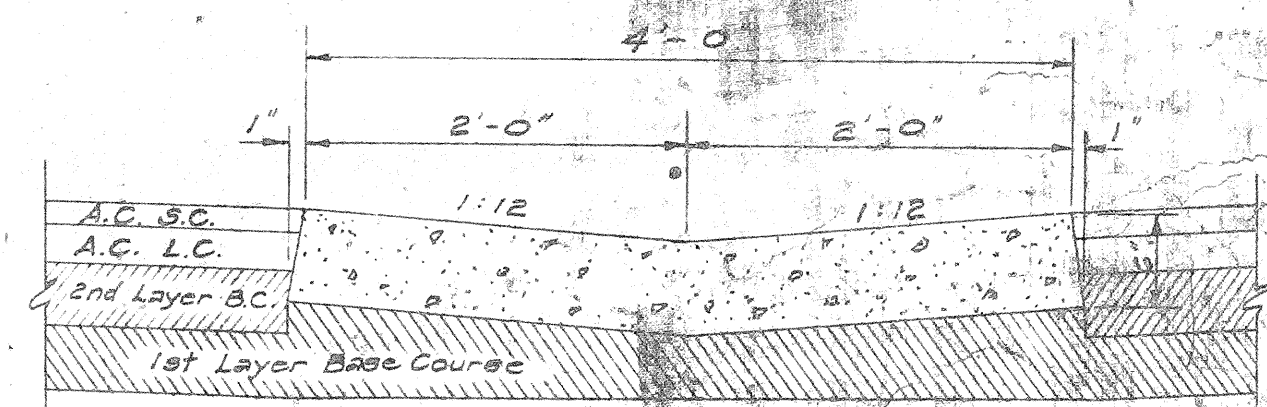


ELEVATION
SCALE: 3" = 1'-0"



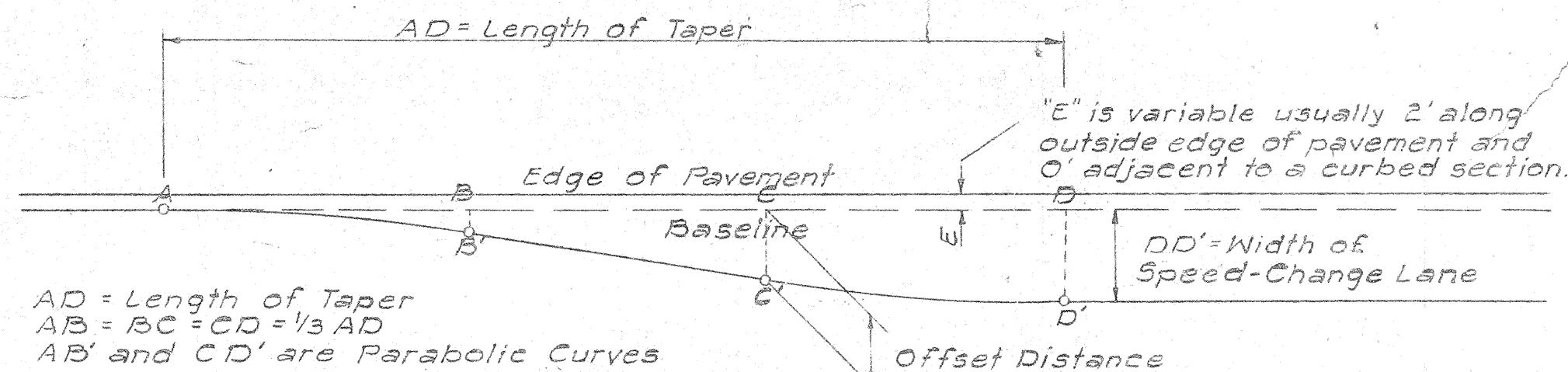
SECTION "Z-Z"
TYPE "CG" CURB

- NOTES:
- 1) Types "AG", "BG", "CG", "DG" and "EG" Concrete Curbs and Gutters are to be poured monolithically.
 - 2) Types "A", "B", and "C" Curbs and Types "AG", "BG" and "CG" Curbs and Gutters occur at Median Strips and Traffic Islands.
 - 3) Shaded area in Curbs are to be painted with an approved white lacquer. (One Coat)
 - 4) 4" Conc. Curbs and Gutters shown herein are to be of Class "A-1" Conc. and Cast in Place.



TYPE "G" GUTTER
SCALE: 1" = 1'-0"

DETAILS OF CAST-IN-PLACE CONC. CURBS AND GUTTERS

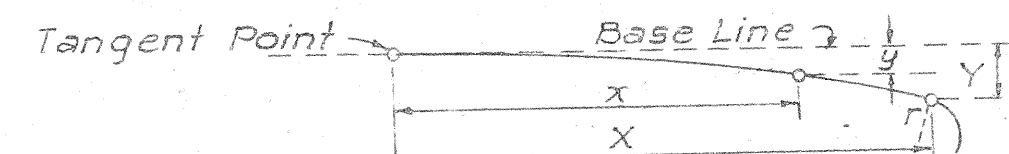


TAPER FOR SPEED-CHANGE LANES
Scale: 1" = 20'-0"

These Curves are based upon the following formula:

$$y = \frac{Y}{X^2} x^2$$

where: y = any offset, X = its tangent distance
 X = maximum tangent distance
 Y = maximum offset



PARABOLIC TAPER

FOLLOWING TABLE GIVES OFFSETS FROM BASELINE PARALLEL TO EDGE OF PAV'T AT INTERVALS MEASURED FROM POINT "A" ADD "E" FOR MEASUREMENT FROM EDGE OF PAV'T.

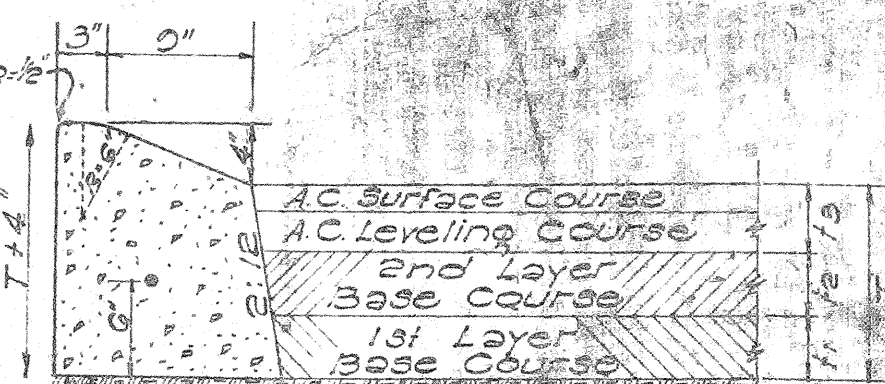
OFFSET FROM BASELINE (Ft)	90	120	150	180	210	240	270	300
DD/100 DD/12 DD/15 DD/18 DD/21 DD/24 DD/27 DD/30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.16	0.17	0.19	7.5	10	12.5	15	17.5	20
0.68	0.69	0.75	15	20	25	30	35	40
1.41	1.55	1.69	22.5	30	37.5	45	52.5	60
2.50	2.75	3.00	30	40	50	60	70	80
5.00	5.50	6.00	45	60	75	90	105	120
7.50	8.25	9.00	60	80	100	120	140	160
8.59	9.45	10.31	67.5	90	112.5	135	157.5	180
9.38	10.31	11.25	75	100	125	150	175	200
9.84	10.83	11.81	82.5	110	137.5	165	192.5	220
10.00	11.00	12.00	90	120	150	180	210	240

*Where edge of pavement is a curve, neither Baseline nor Taper between B' and C' will be a tangent. Use proportional offset from B' to C'.

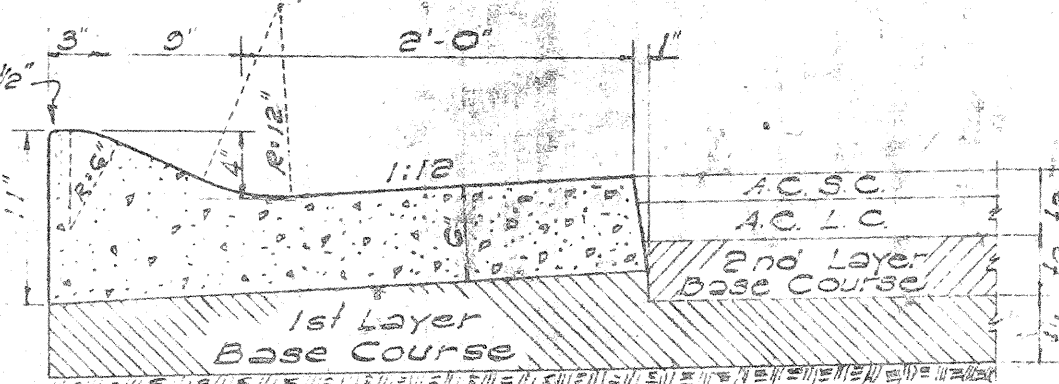
RATIO CURVE DATA

Dist. in ft.	Offset in feet (y)
(x)	2.30 3.45 5.50 7.70 9.90 10.100
10	0.22 0.15 0.20 0.14 0.11 0.10
20	0.89 0.59 0.80 0.57 0.44 0.40
30	2.00 1.33 1.80 1.29 1.00 0.90
40	3.37 2.20 2.89 1.78 1.60
50	5.00 3.57 2.78 2.50
60	5.14 4.00 3.60
70	7.00 5.44 4.90
80	7.11 6.40
90	9.00 8.10
100	10.00

NOTE: Any ratio curve in this tabulation is designated by the maximum offset and its tangent distance.



TYPE "E" CAST-IN-PLACE CONCRETE CURB
SCALE: 1" = 1'-0"



TYPE "EG" CAST-IN-PLACE CONC. CURB & GUTTER
SCALE: 1" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
CURBS AND GUTTERS DETAILS
AND TAPER DETAILS

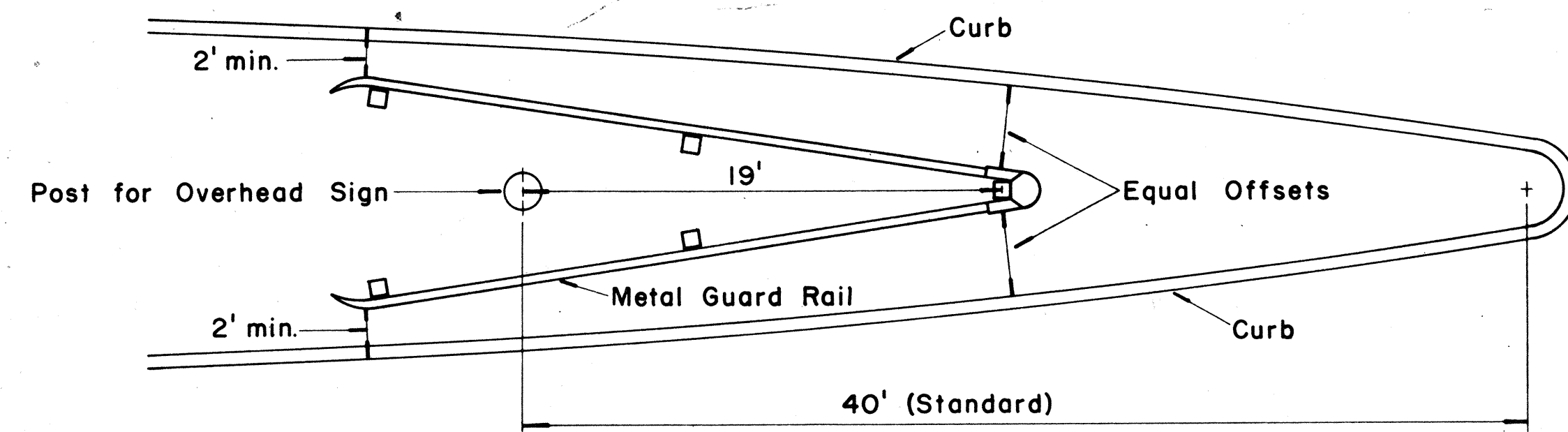
INTERSTATE ROUTE H-1
F.A.I. Proj. No. I-HI-1(17) UNIT 1

SCALE: AS SHOWN DATE: SEPT. 1964

SHEET NO. 3 OF 5 SHEETS

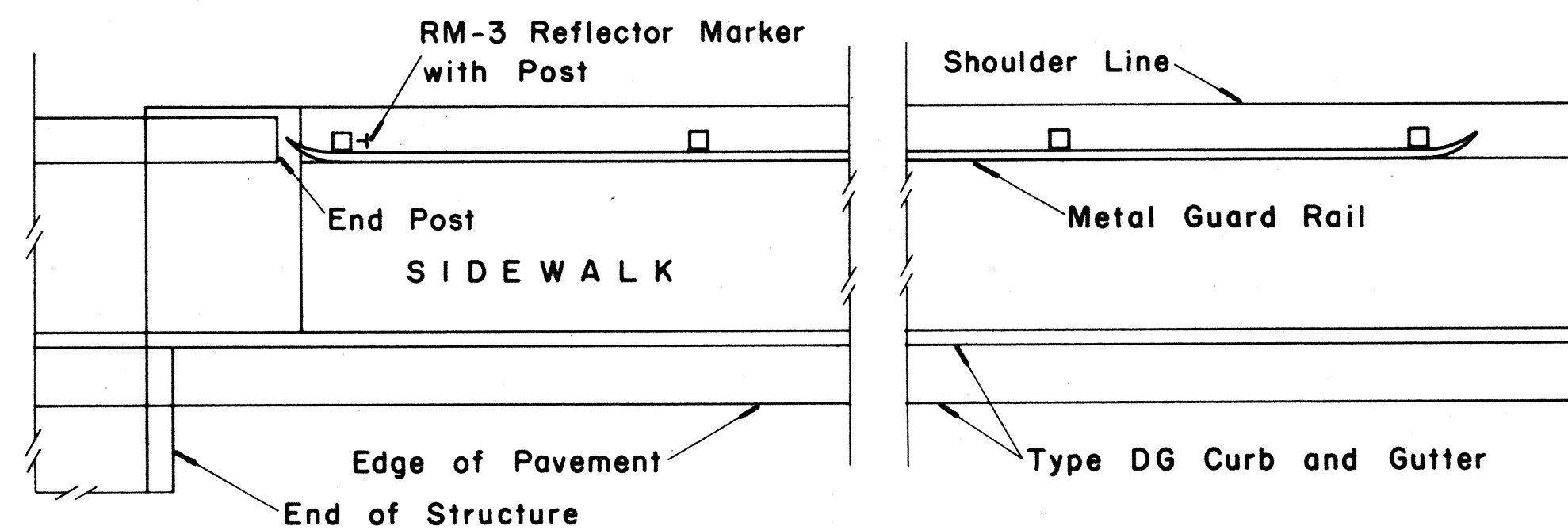
"E" and "EG" Curbs have been revised 7-26-61
"G" and "F" Gutters have been added 9-22-61

SURVEY PLOTTED BY: DATE: _____
DESIGNED BY: _____
TRACED BY: C. S. H. _____
QUANTITIES BY: _____
CHECKED BY: _____
ORIGINAL PLAN: _____
NOTE BOOK: _____
No. _____

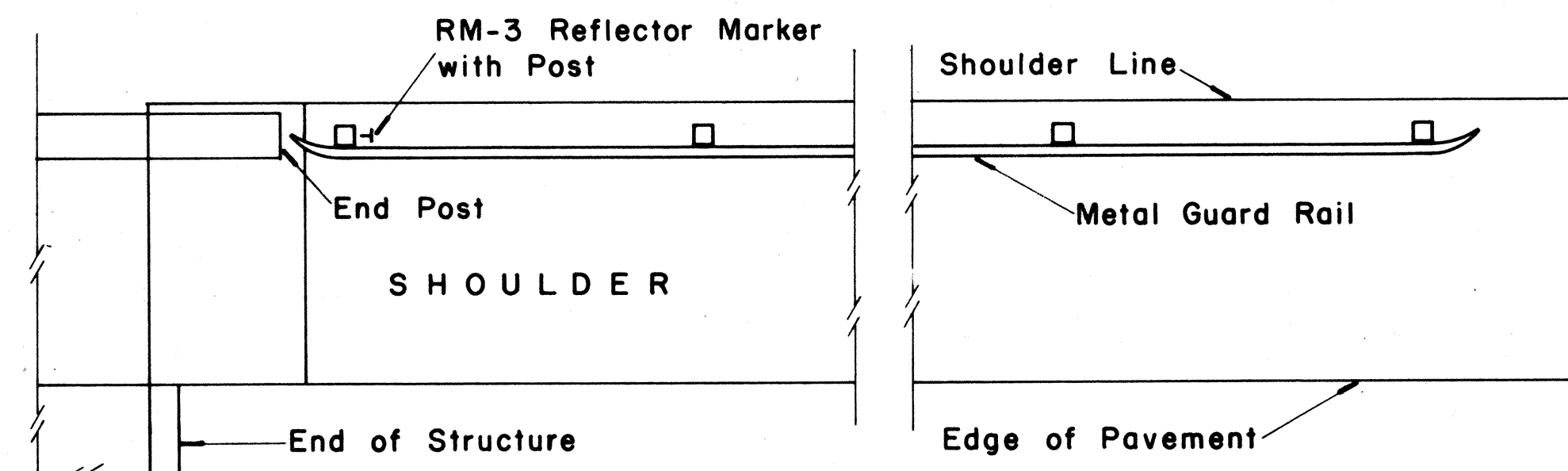


INSTALLATION OF METAL GUARD RAIL FOR OVERHEAD SIGNS

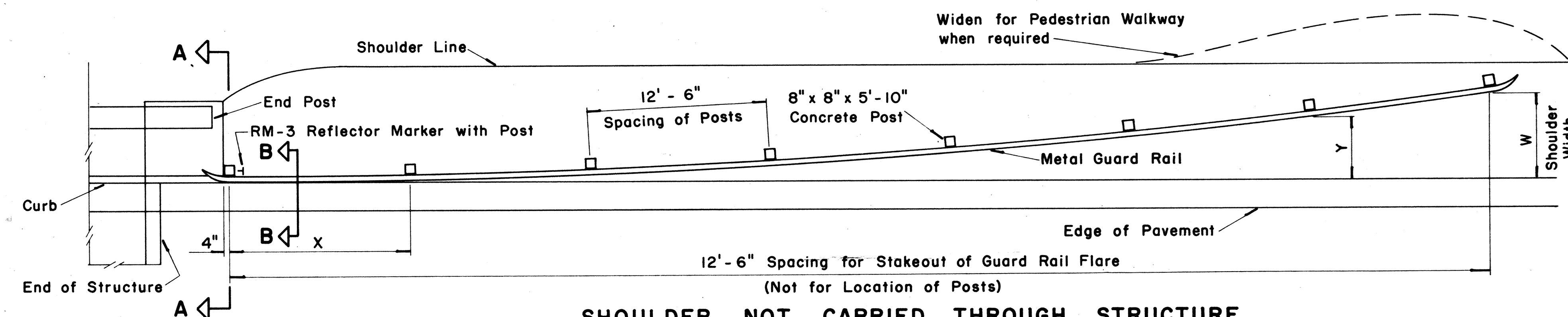
Scale: $\frac{3}{16}" = 1' - 0"$



SIDEWALK CARRIED THROUGH STRUCTURE



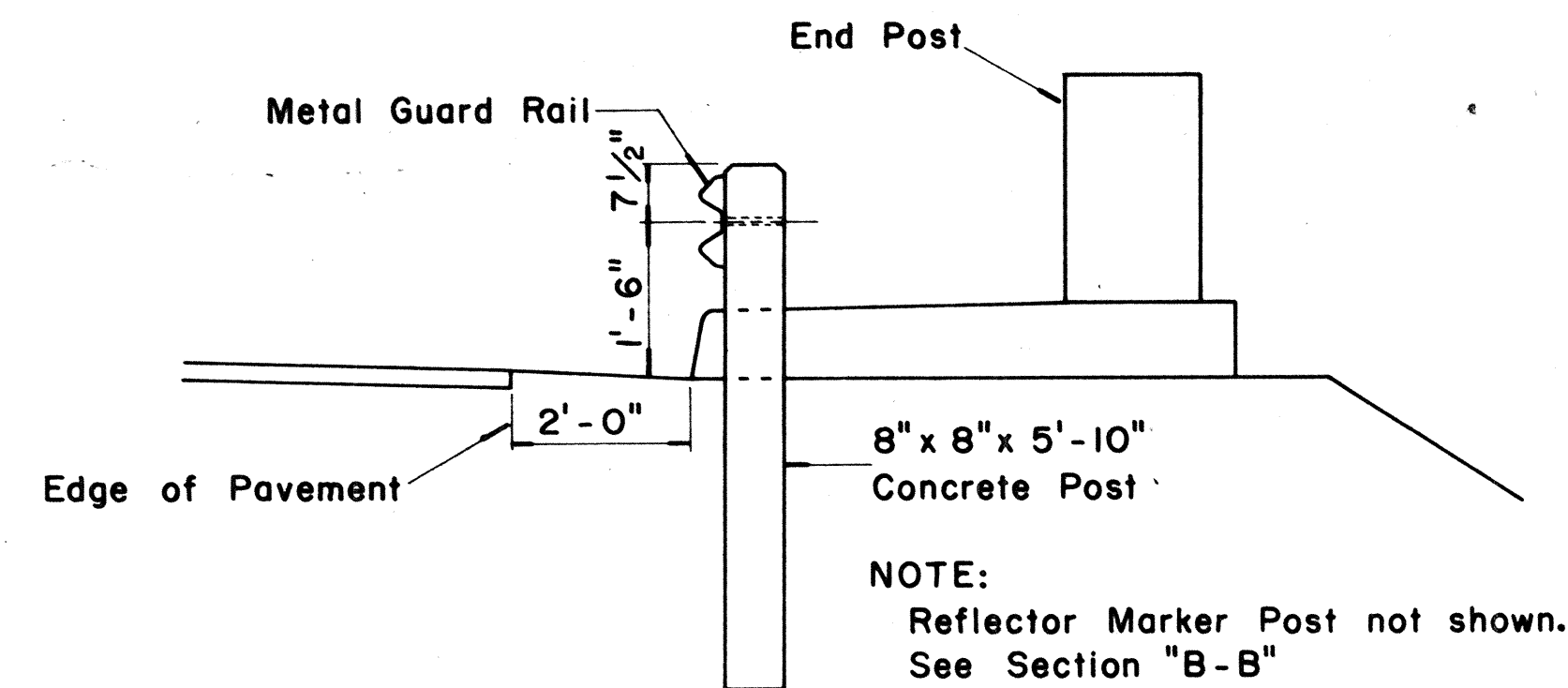
SHOULDER CARRIED THROUGH STRUCTURE



SHOULDER NOT CARRIED THROUGH STRUCTURE

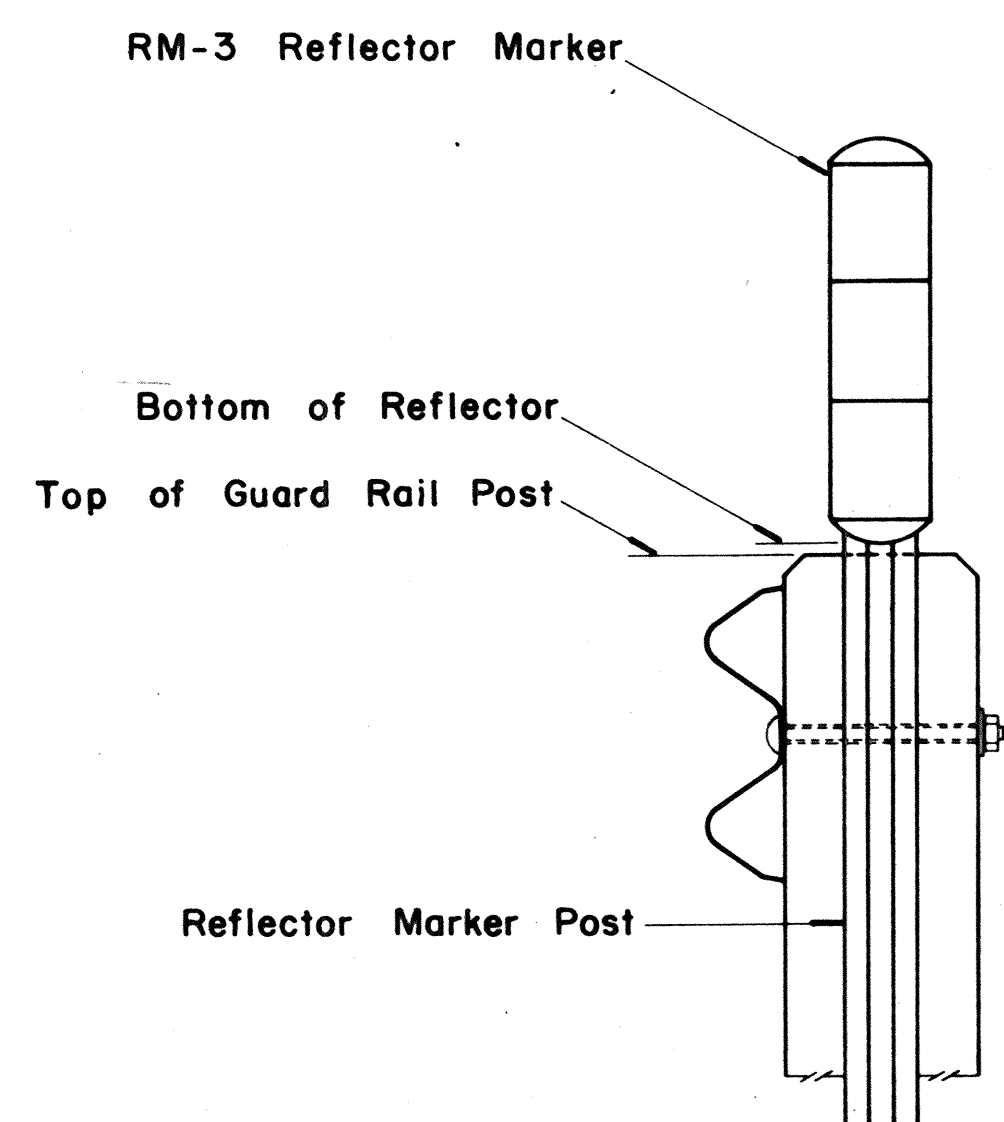
INSTALLATION OF METAL GUARD RAIL FLARE AT STRUCTURES

Scale: $\frac{3}{16}" = 1' - 0"$



SECTION "A-A"

Scale: $\frac{1}{2}" = 1' - 0"$



NOTE:
See F.A. Marker and Misc. Sign
Detail sheet for details of RM-3
Reflector Marker with Post.

SECTION "B-B"

Scale: $1\frac{1}{2}" = 1' - 0"$

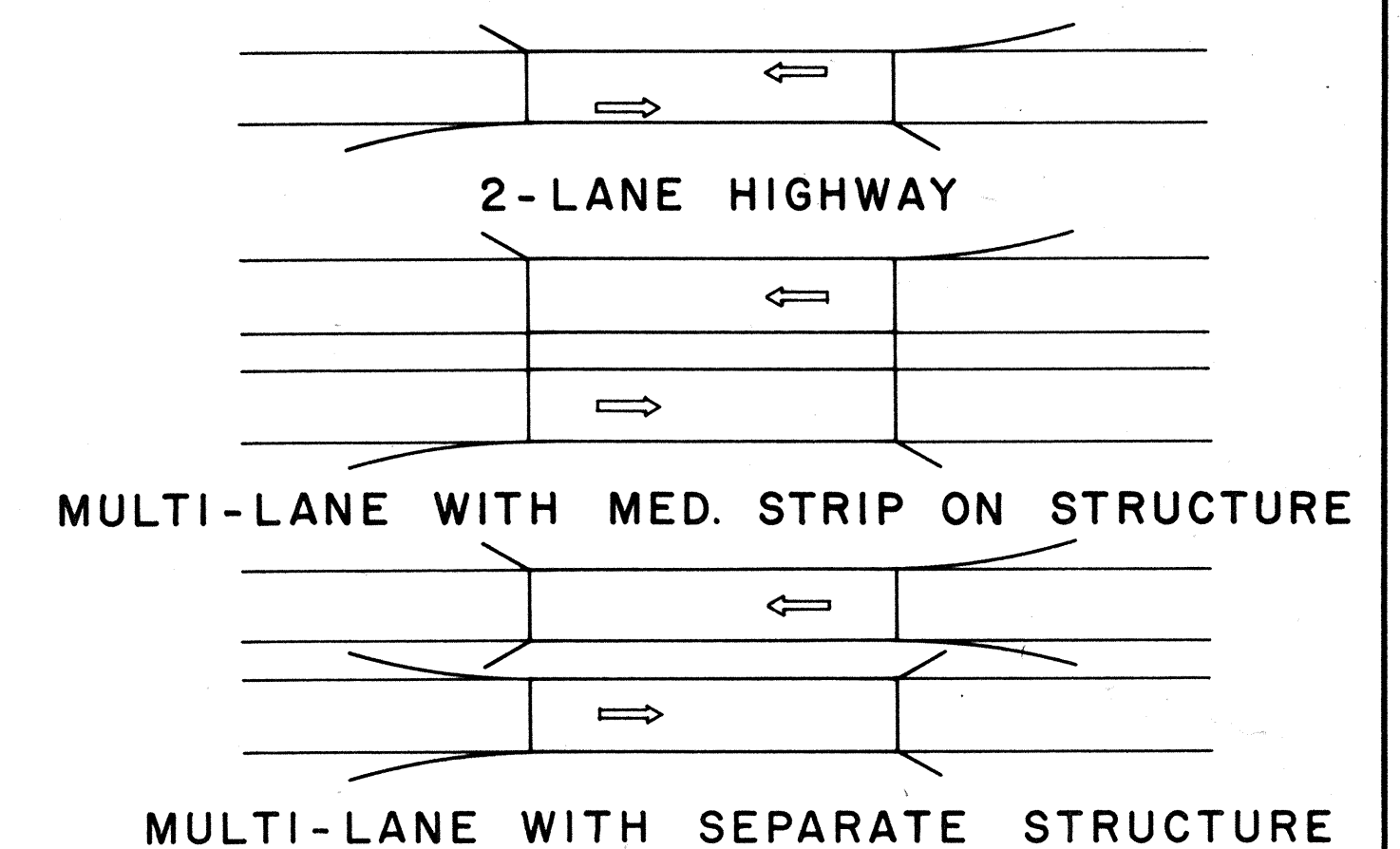
X	Y					
	W=3'	W=4'	W=5'	W=6'	W=7'	W=8'
12.5	0.19	0.16	0.14	0.12	0.09	0.08
25.0	0.75	0.64	0.55	0.49	0.35	0.32
37.5	1.69	1.44	1.25	1.10	0.78	0.72
50.0	3.00	2.56	2.22	1.96	1.38	1.28
62.5		4.00	3.47	3.06	2.16	2.00
75.0			5.00	4.41	3.11	2.85
87.5				6.00	4.23	3.92
100.0					5.53	5.12
112.5					7.00	6.48
125.0						8.00

W = GUARD RAIL FLARE

X = DISTANCE FROM POST AT
BRIDGE TO OFFSET POINTS

Y = GUARD RAIL FLARE OFFSET

GUARD RAIL OFFSET



TYPICAL GUARD RAIL FLARES AT STRUCTURE APPROACHES

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TYPICAL DETAILS
METAL GUARD RAILS
AT
STRUCTURES & OVERHEAD
SIGNS
Scale: As Noted
SHEET No. 5 OF 5 SHEETS

DATE
SURVEY PLOTTED BY
ORIGINAL PLAN
DESIGNED BY
NOTE BOOK
CHECKED BY
No.