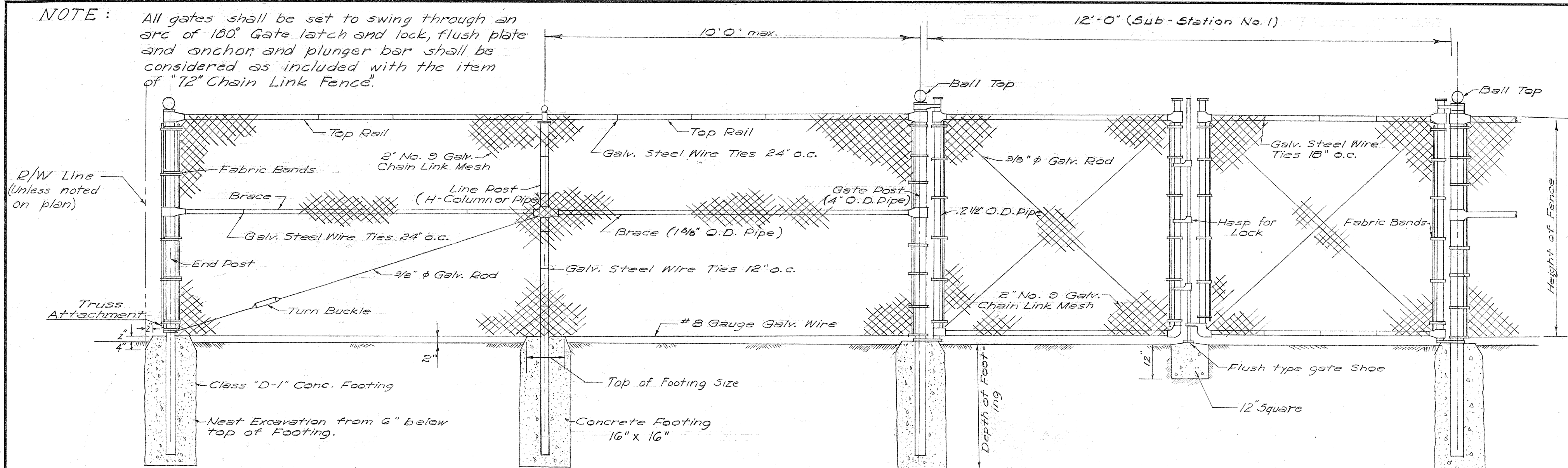
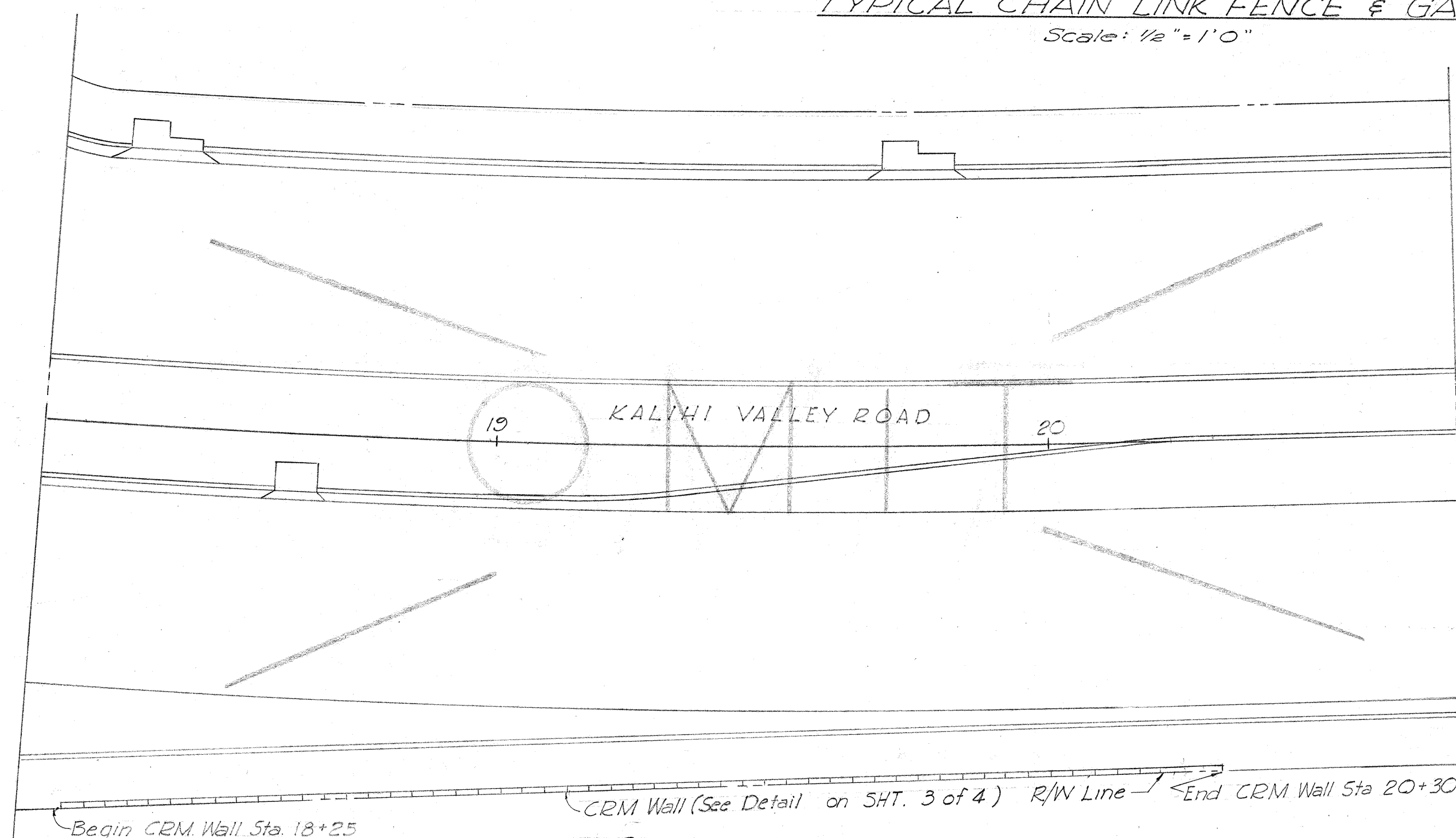


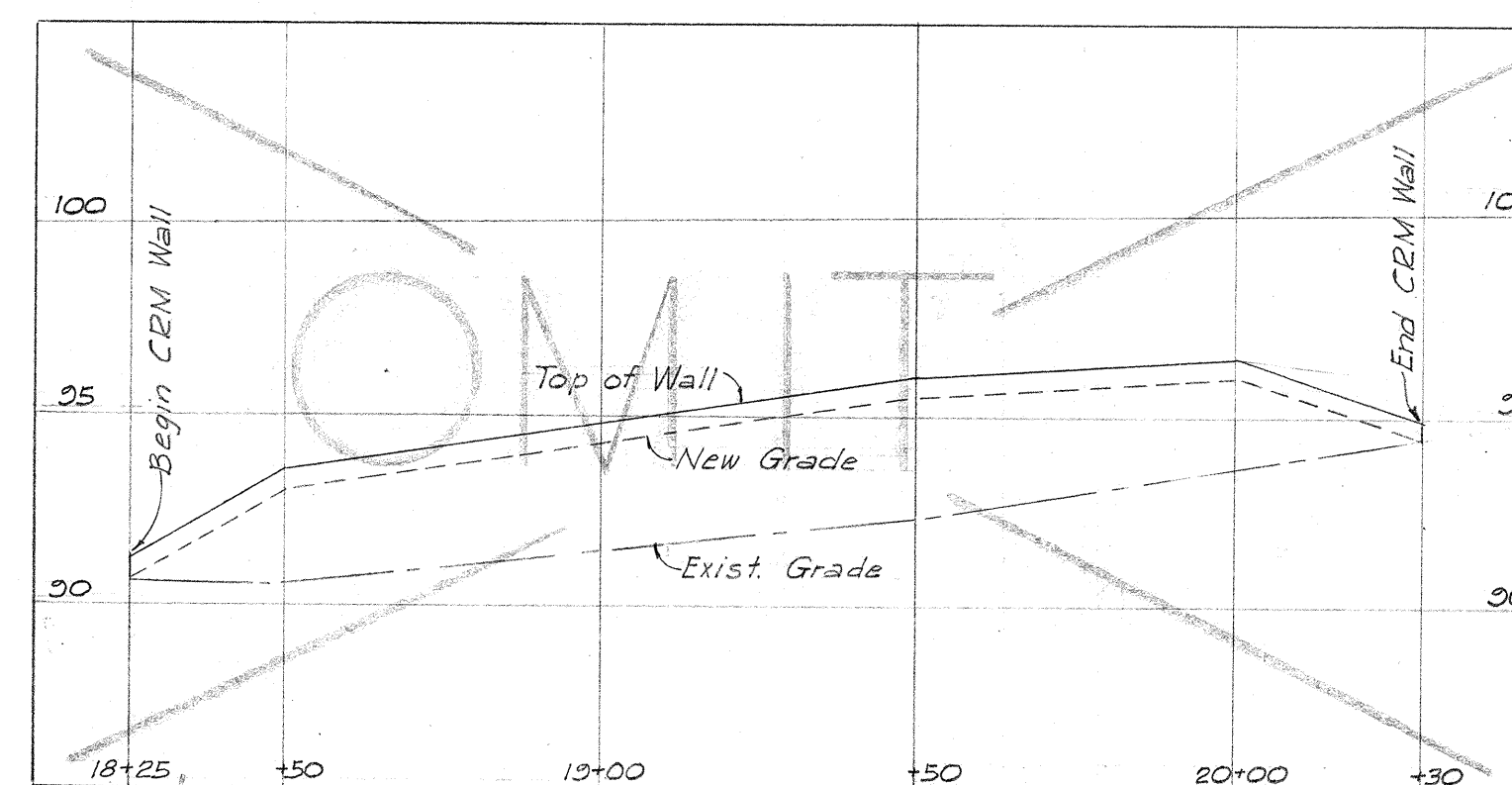
NOTE: All gates shall be set to swing through an arc of 180°. Gate latch and lock, flush plate and anchor and plunger bar shall be considered as included with the item of "12" Chain Link Fence".



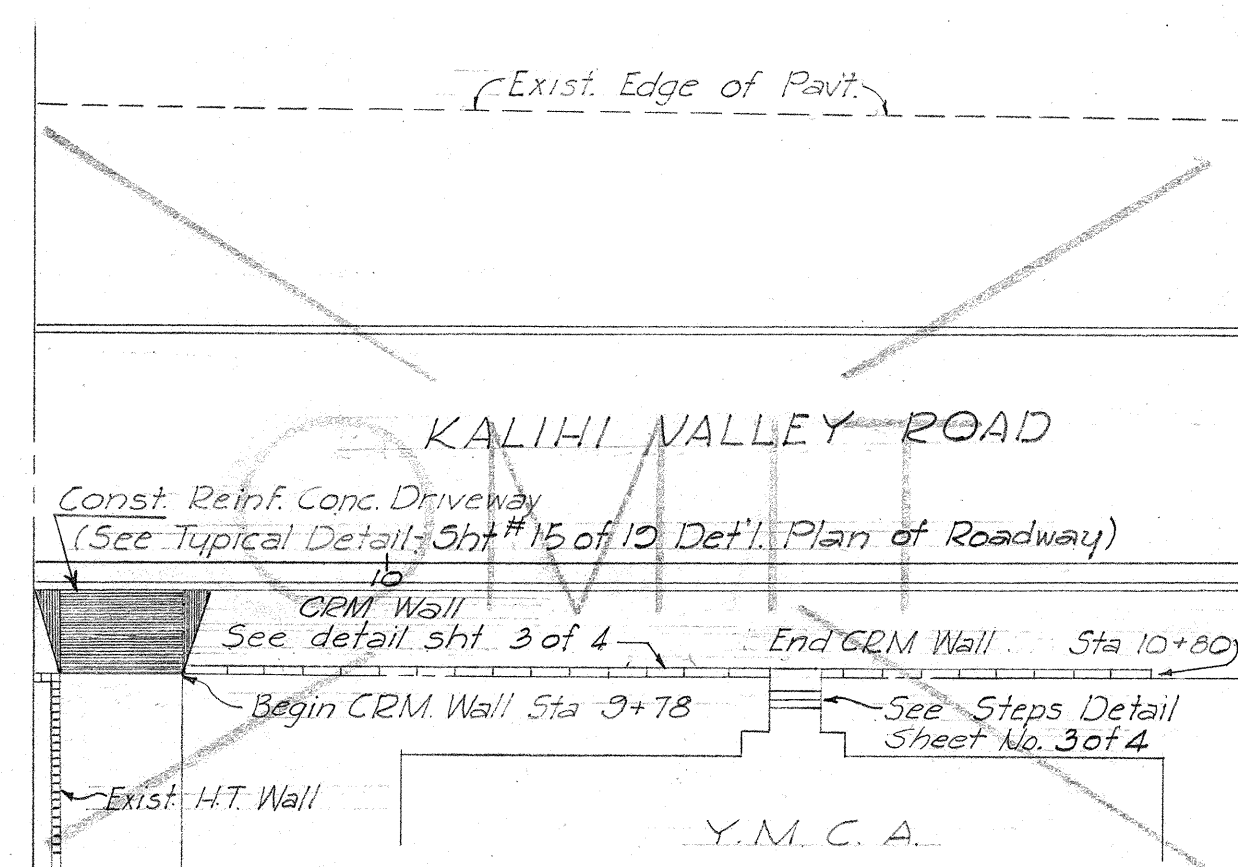
TYPICAL CHAIN LINK FENCE & GATE DETAIL
Scale: 1/8" = 1'-0"



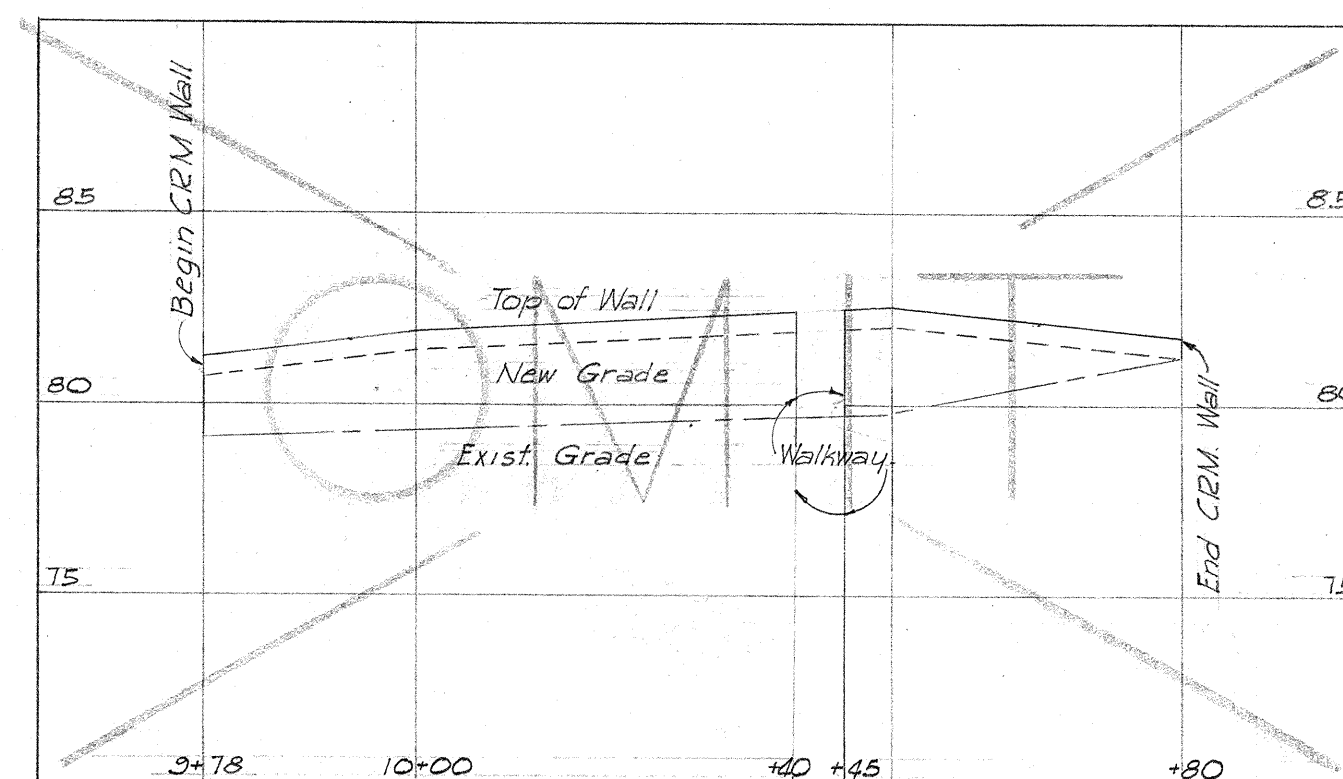
PLAN-CRM WALL
Scale: 1" = 80'



PROFILE-CRM WALL
Scale: Hor: 1" = 30'-0"
Vert: 1" = 5'-0"



PLAN-CRM WALL
Scale: 1" = 20'

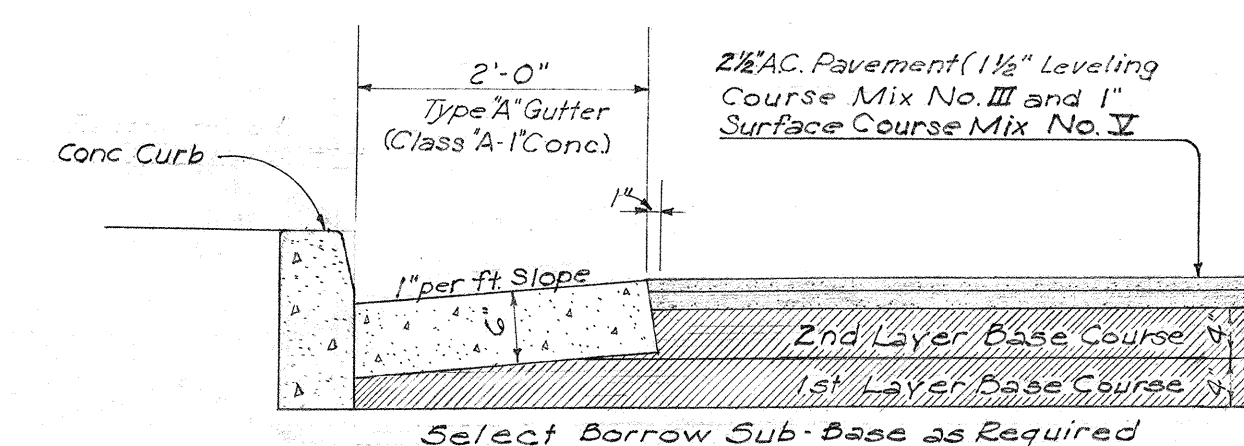


PROFILE-CRM WALL
Scale: Hor: 1" = 20'-0"
Vert: 1" = 5'-0"

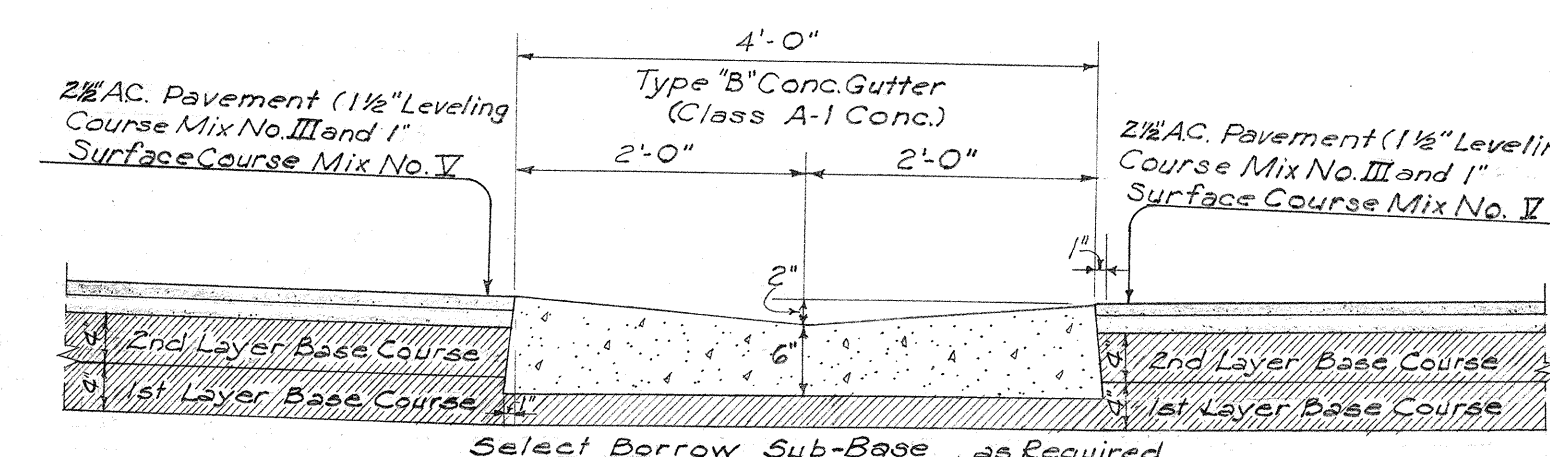
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	065-0202	1960	15	79
		UNIT 3			
		UNIT 4	1960	23	113
		UNIT 5	1960	23	115

Schedule For Chain Link Fence

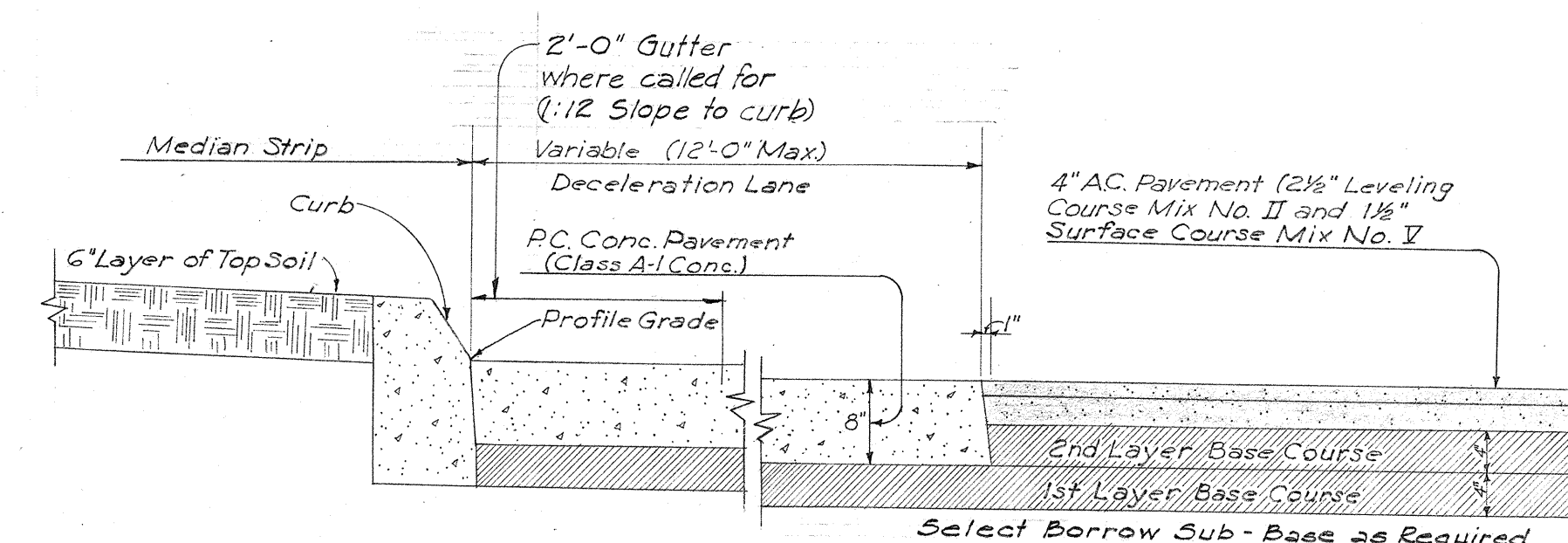
Height of Fence	Line Post		End Post Top Rail		Depth of Footing	Top of Footing Size	Length of Post
	H-Column	Pipe	Pipe	Pipe			
6'	4 1/4" x 1 ft.	2 3/8" o.d.	3" o.d.	1 3/8" o.d.	36" x 36"	16" sq.	9'0" x 9'0"



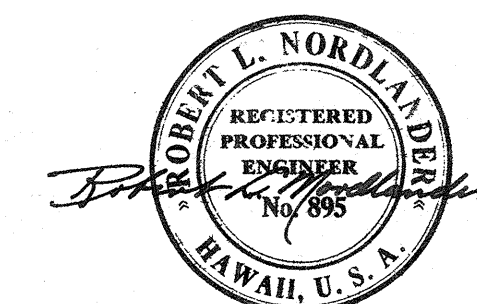
DETAIL OF TYPE "A" CONC. GUTTER
Scale: 3/4" = 1'-0"



DETAIL OF TYPE "B" CONC. GUTTER
Scale: 3/4" = 1'-0"



DETAIL OF P.C. CONC. PAVEMENT (DECELERATION LANE)
Scale: 3/4" = 1'-0"



BELT, COLLINS & ASSOC., LTD.
Civil and Structural Engineers

HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII

MISCELLANEOUS DETAILS

MOANALUA ROAD US-S-0720(3) UNIT 3
LUNALILO FREEWAY BU-072-1(2) UNIT 4
MIDDLE STREET BU-065-1(1) UNIT 3

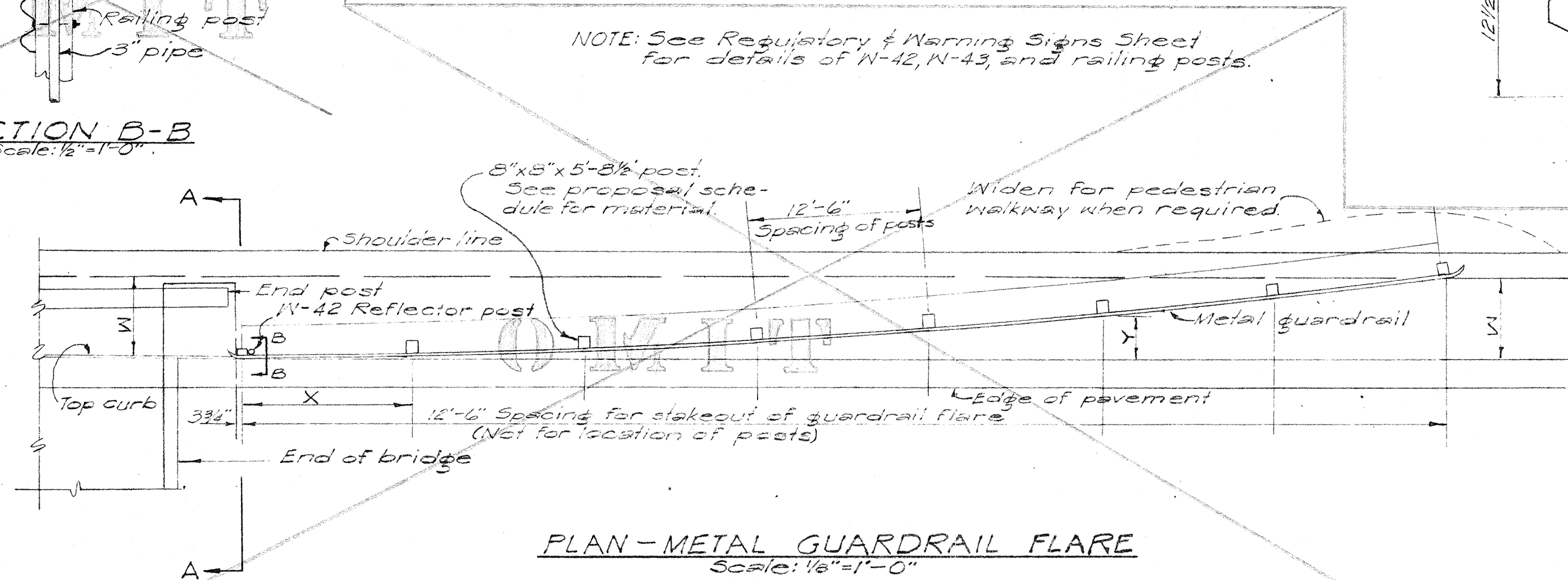
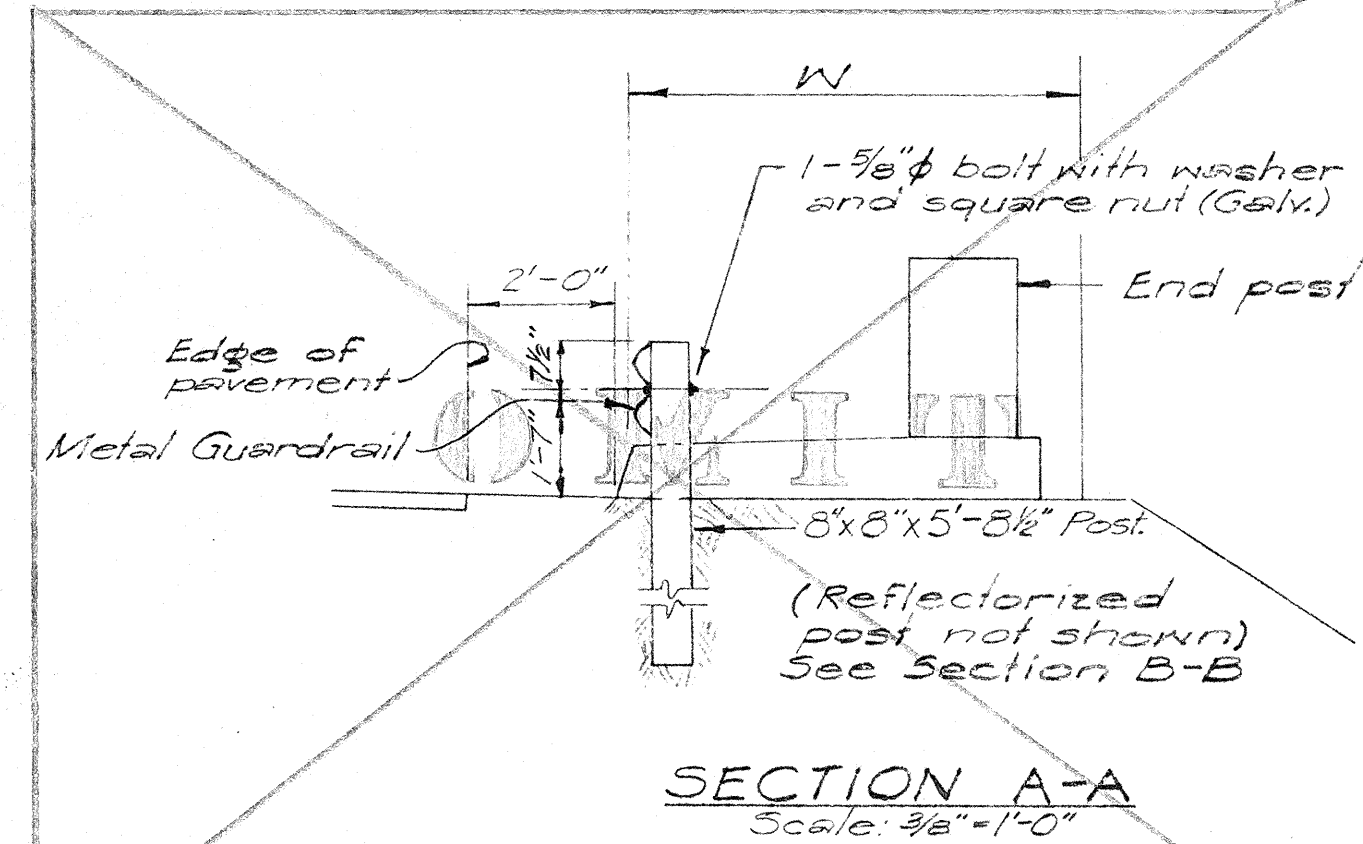
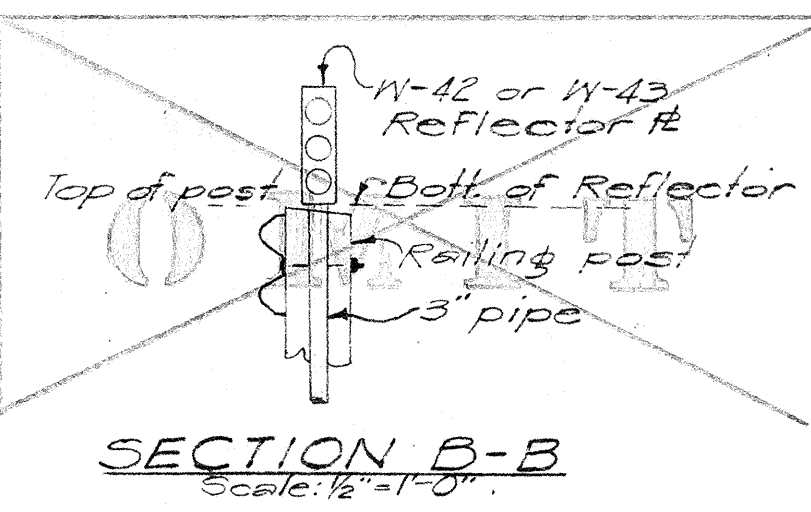
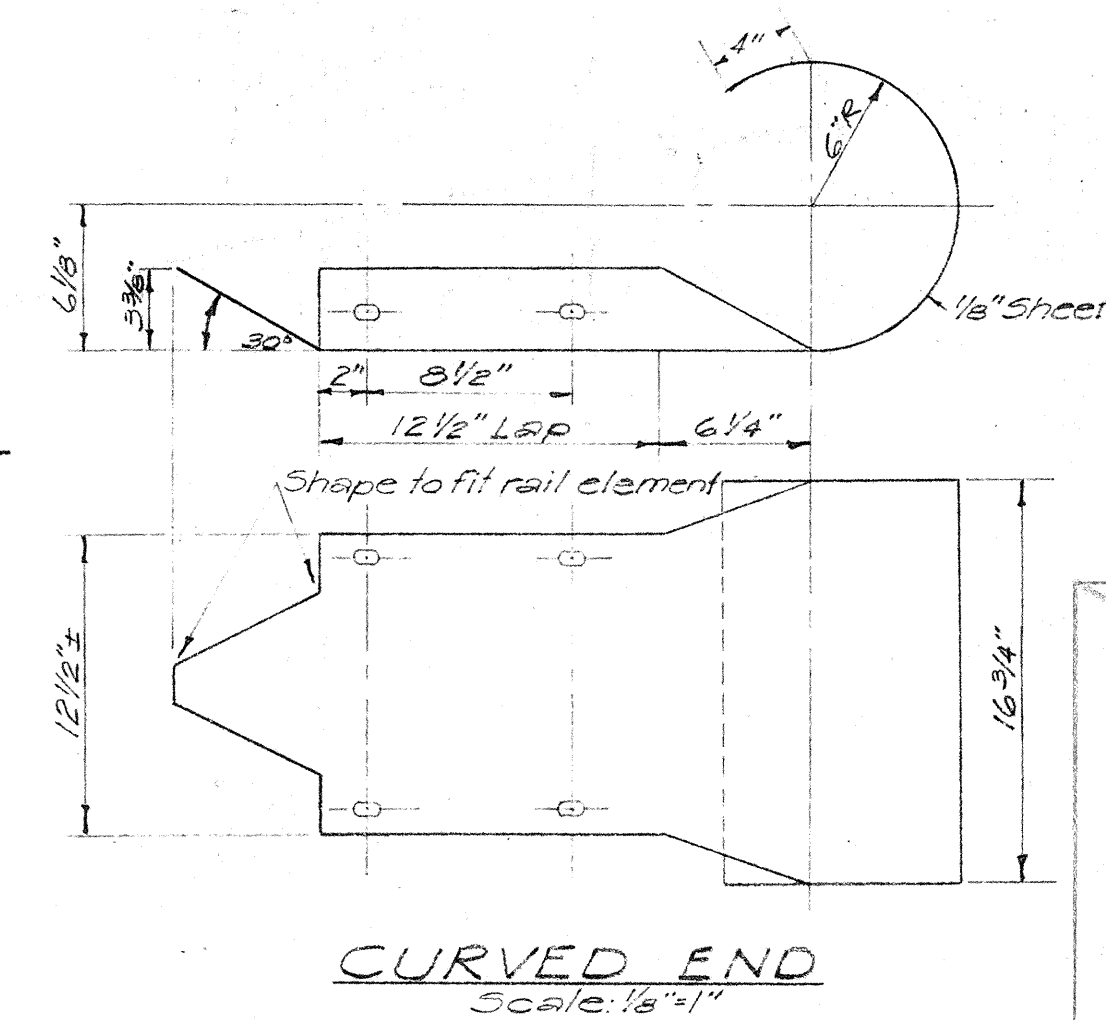
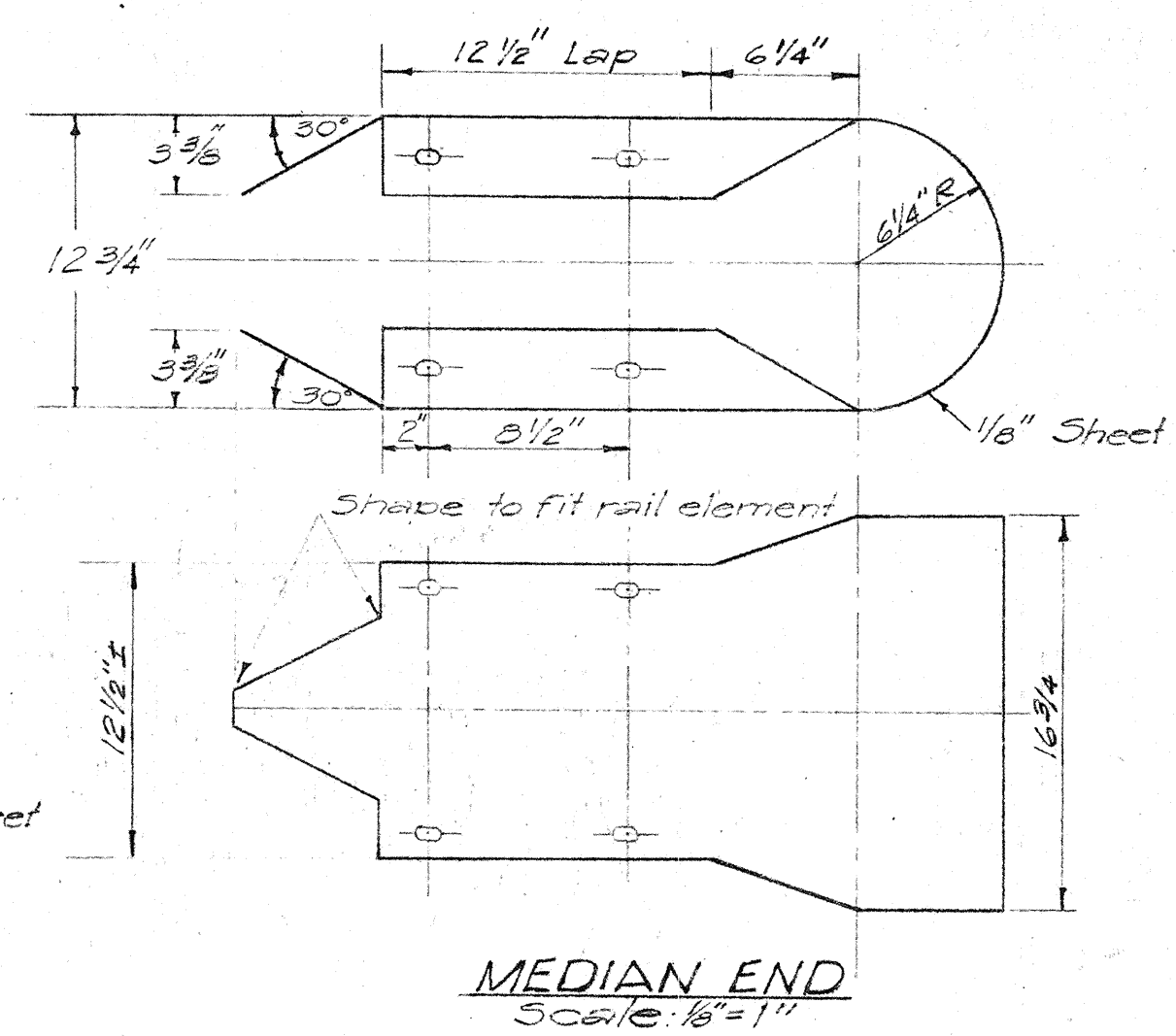
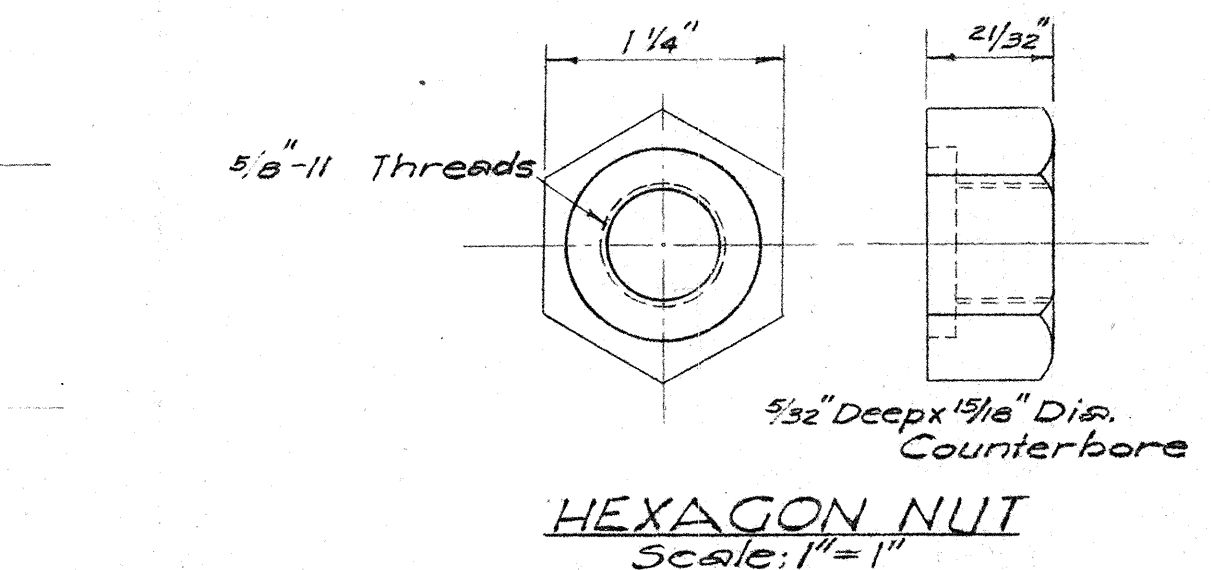
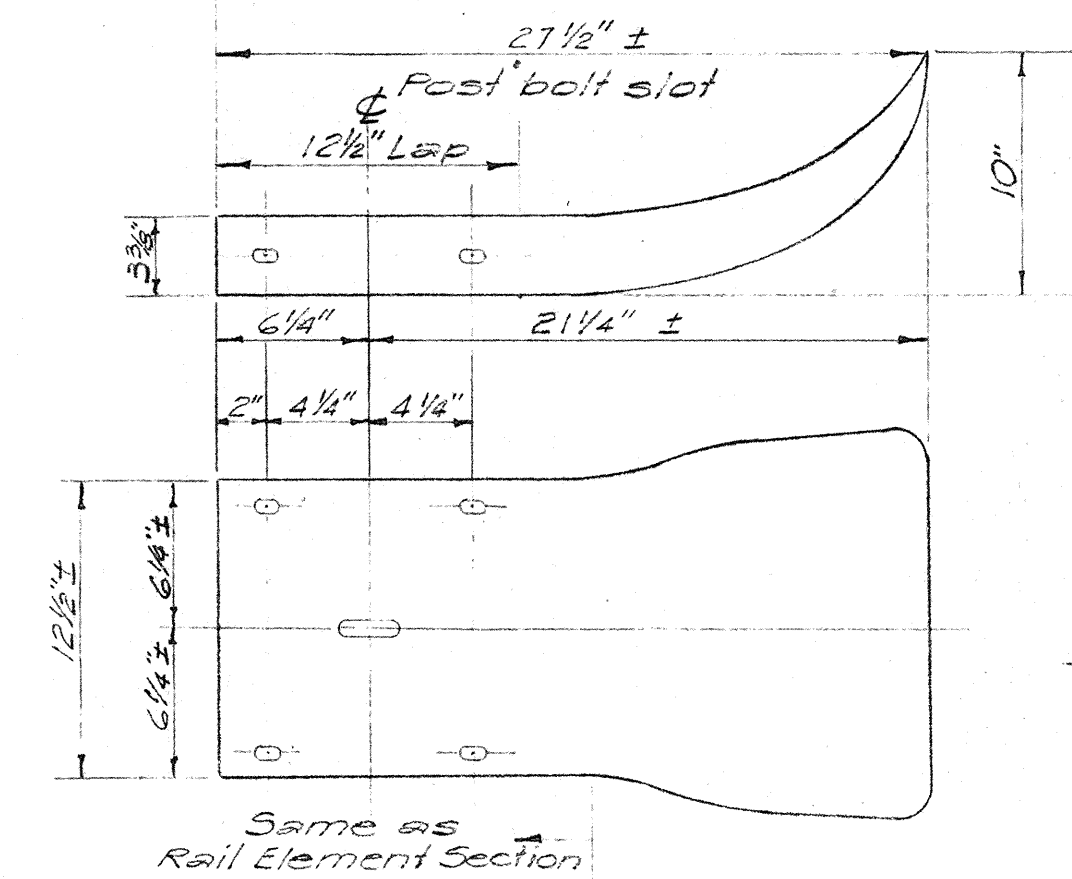
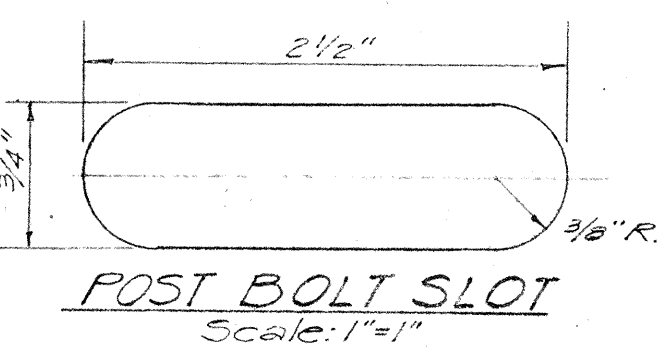
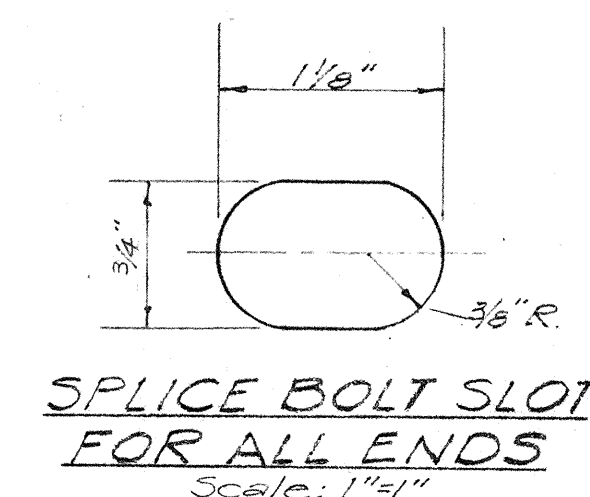
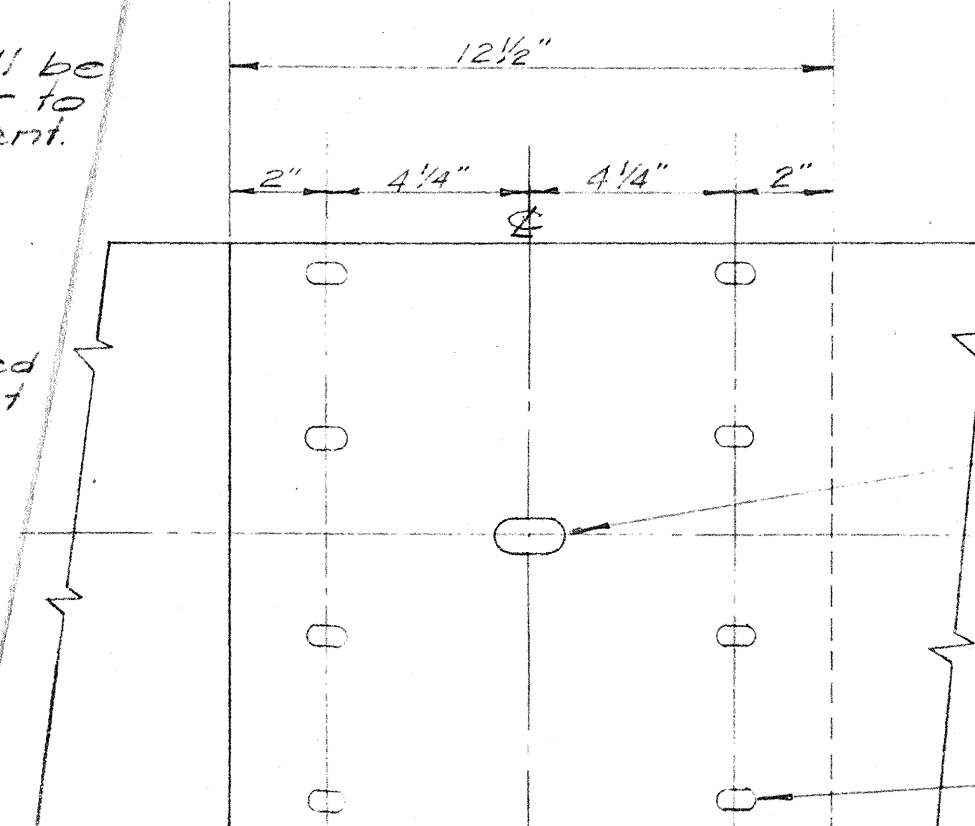
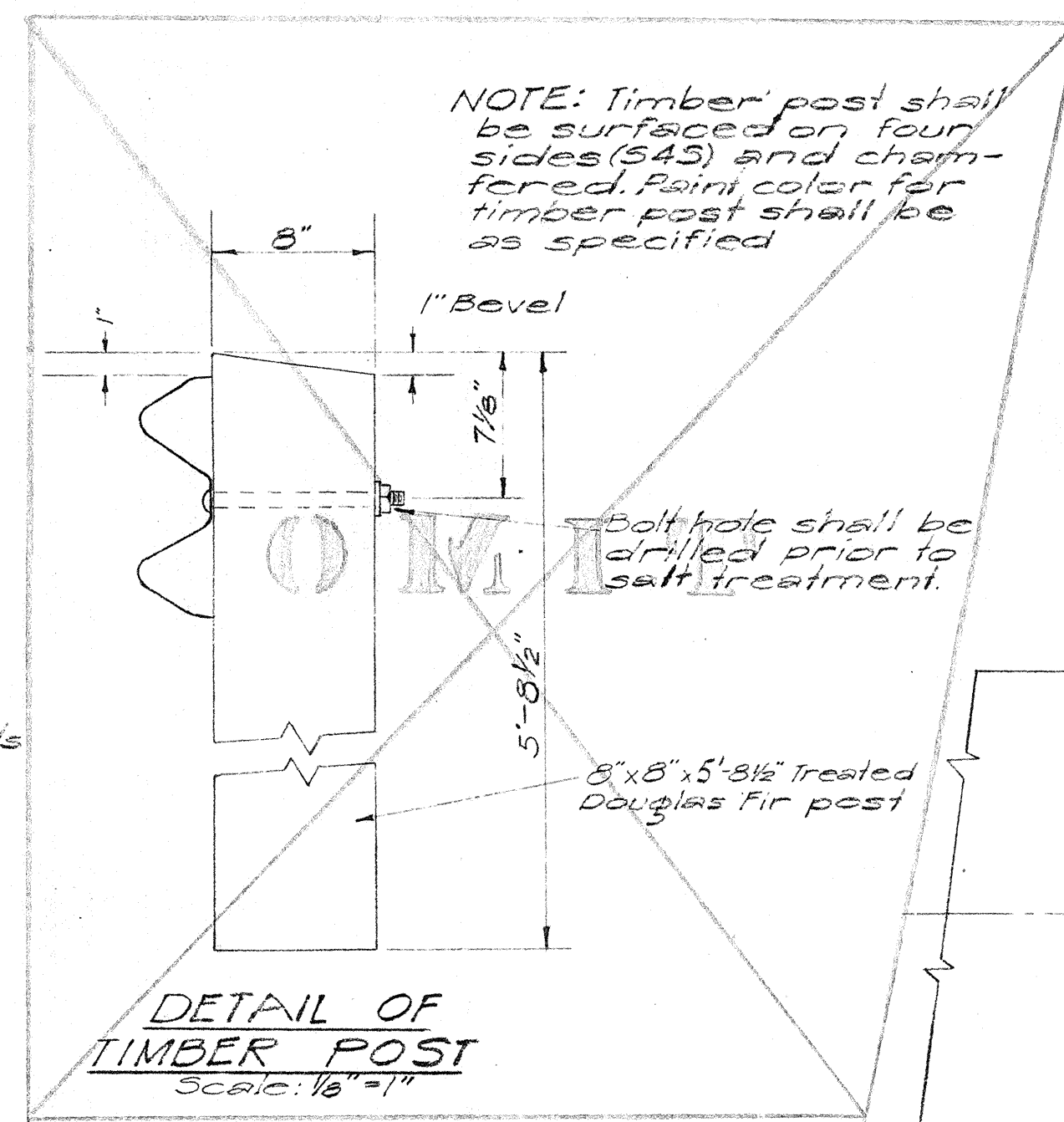
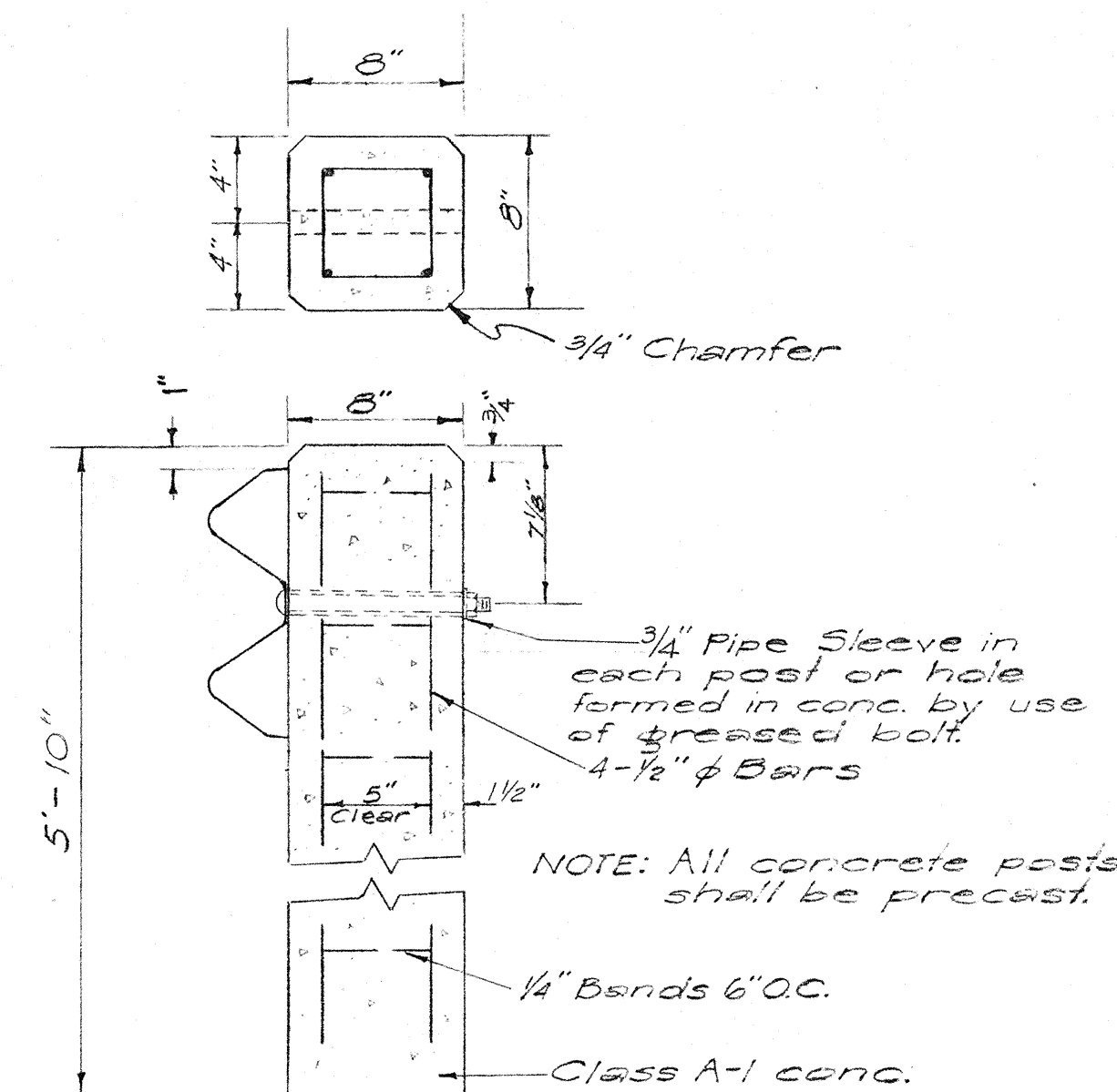
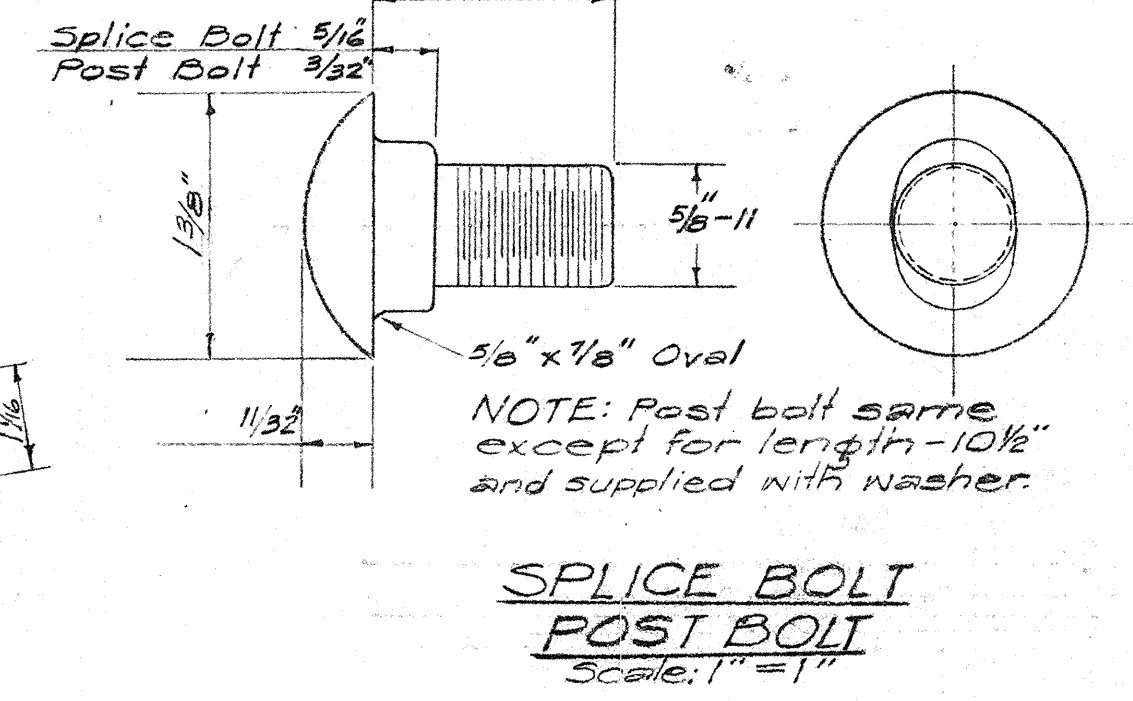
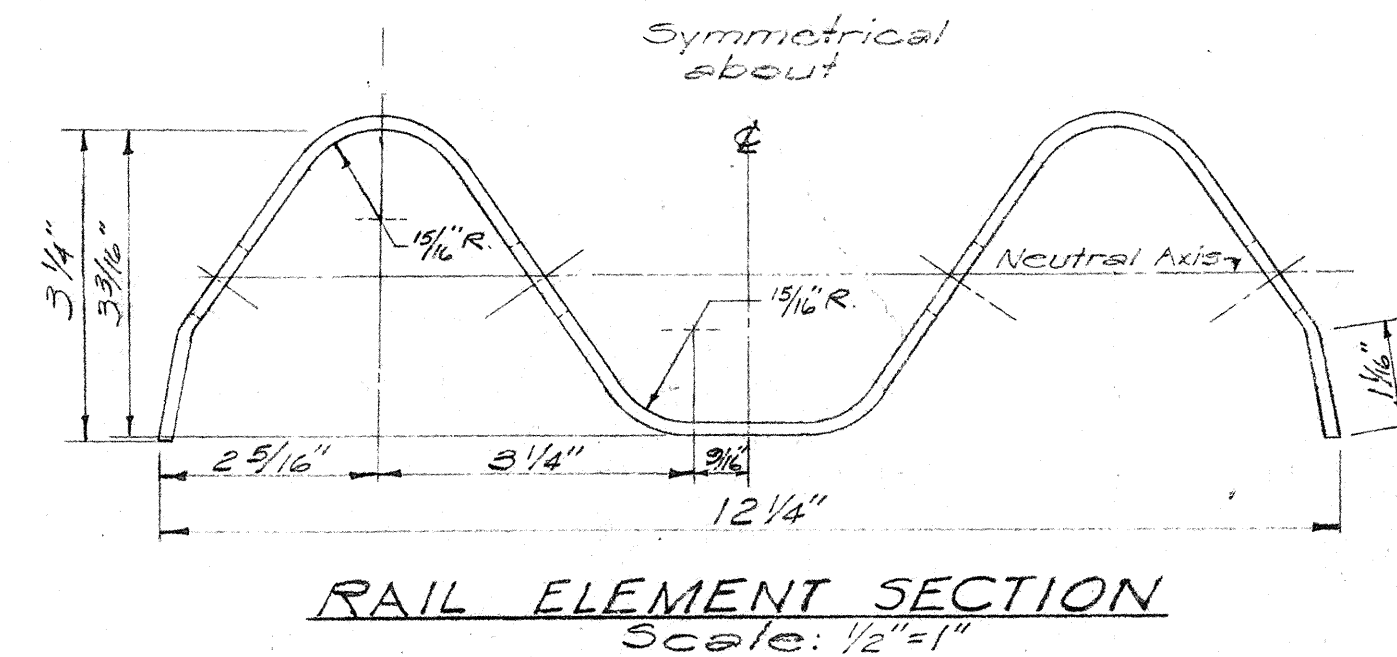
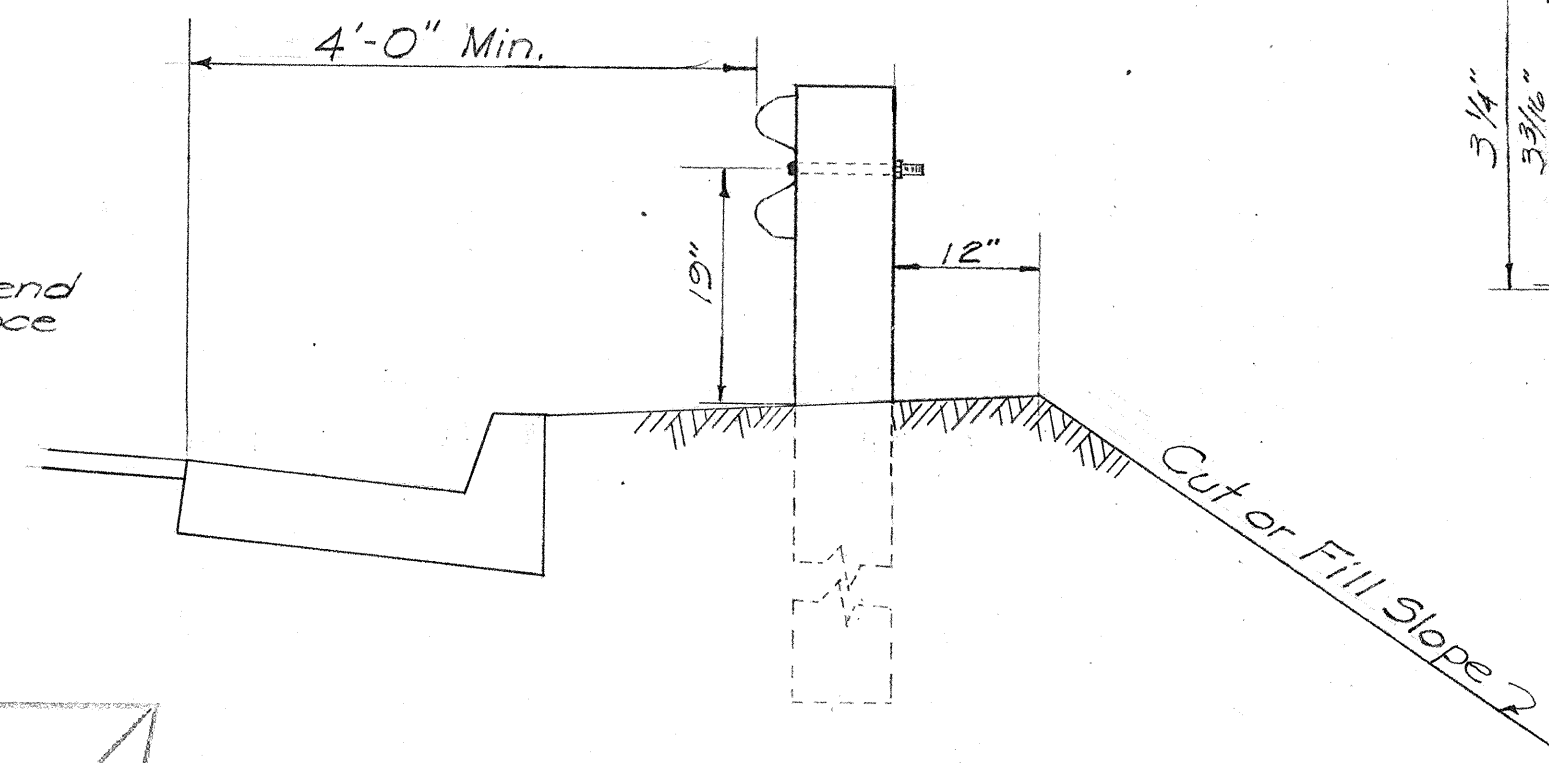
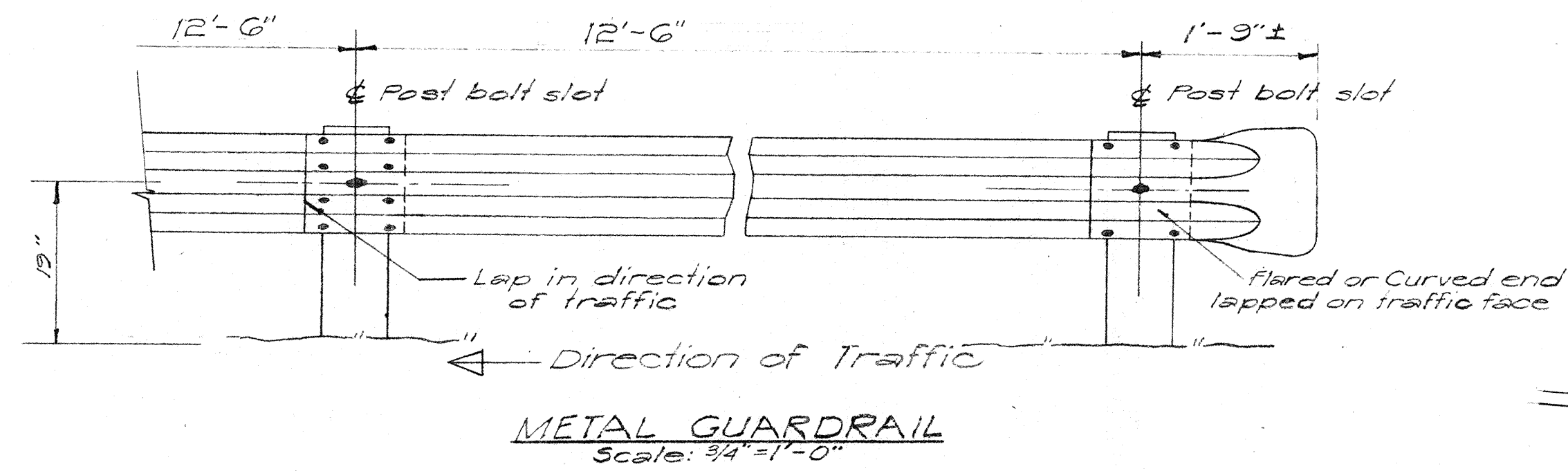
SHEET NO. 1 OF 4 SHEETS

\$526.15

\$174.23

\$161.23

FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS	FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS	FED. ROAD DIST. No.	STATE	FED. AID PROJ. No.	FISCAL YEAR	SHEET No.	TOTAL SHEETS
HAWAII	HAW.	155-07266 UNIT 3	1960	15A	79	HAWAII	HAW.	155-07266 UNIT 4	1960	25A	118	HAWAII	HAW.	155-07266 UNIT 5	1960	24A	115



GUARDRAIL OFFSET

	Y					
X	N=3'	N=4'	N=5'	N=6'	N=7'	N=8'
125	0.19	0.16	0.14	0.12	0.09	0.08
250	0.75	0.64	0.55	0.49	0.35	0.32
375	1.69	1.44	1.25	1.10	0.75	0.72
500	3.00	2.56	2.22	1.96	1.38	1.28
625		4.00	3.47	3.06	2.16	2.00
750			5.00	4.41	3.11	2.88
875				6.00	4.23	3.92
1000					5.53	5.12
1125					7.00	6.48
1250						8.00

W = Guardrail flare.
X = Distance from post at bridge
to offset points.
Y = Guardrail flare offset.

HAWAII STATE HIGHWAY DEPARTMENT
STATE OF HAWAII
MISCELLANEOUS DETAILS
(METAL GUARD RAIL)

MOANALUA ROAD	US-S-0720(3) UNIT 3
LUNALILO FREEWAY	BU-072-1(2) UNIT 4
MIDDLE STREET	BU-065-1(1) UNIT 3

SHEET No. 4 OF 4 SHEETS

\$526.15 A \$174.25 A \$161.24 A 33A