

Notes:

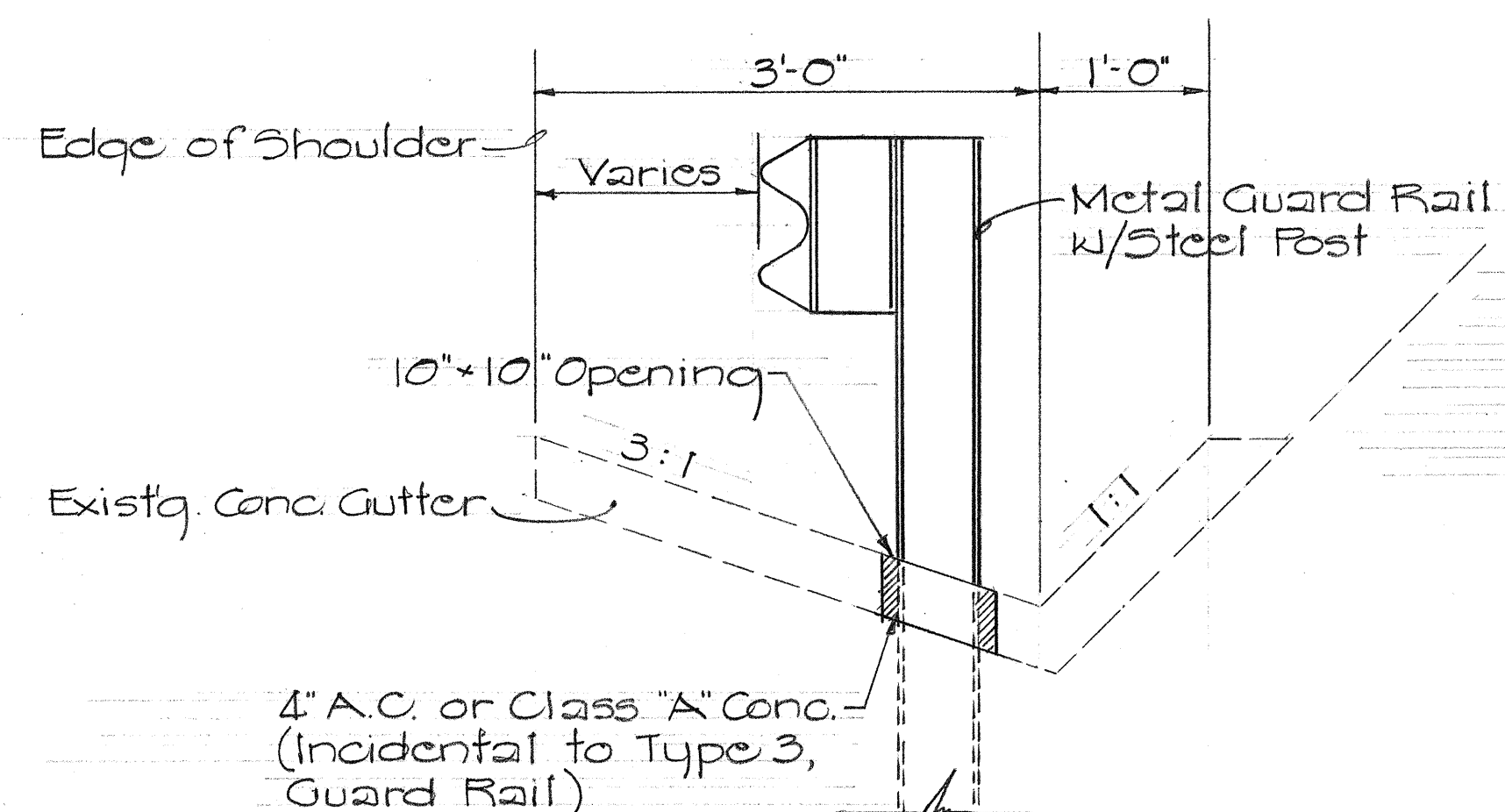
Install Guard Rails at the following locations.
See Sheets 6-11 for Details. If connected
to existing rails, see Details, this sheet.
Est. Quant.

Sta. to Sta.	Type Flare	Guard Rail Lin. Ft.	Embankment Cu. Yd.
17+13 - 20+50 Lt.	"E"	138 137.4	
23+50 - 24+25 Lt.	"B"	75 75.9	
17+10 - 22+27 Rt.	"B" & "E"	388 376.0	
27+50 - 28+00 Lt.	"E"	50 49.9	
31+00 - 31+75 Lt.	"B"	75 75.9	
60+12 - 62+00 Rt.	"B"	188 188.4	
59+90 - 62+15 Lt.	"B" & "E"	225 363.7	30 0
65+72 - 66+22 Rt.	"F"	50 51.3	
68+85 - 72+83 Lt.	"C" & "F"	400 402.4	
84+55 - 85+42 Lt.	"F" & Std	88 91.4	
87+26 - 88+60 Lt.	"C" & Std*	66 66.5	
106+47 - 108+10 Lt.	"C" & "E"	163 163.6	
107+06 - 108+31 Rt.	"C" & "F"	125 128.6	
112+07 - 113+07 Rt.	"C" & "F"	100 128.7	
115+73 - 116+23 Lt.	"F"	50 51.4	
117+18 - 121+81 Lt.	"C" & "F"	263 266.5	
135+50 - 137+63 Rt.	"C"	213 240.0	
136+70 - 137+00 Lt.	"E"	200 231.1	25 0

Remove and reconstruct existing Guard Rail to
smoothen transition from existing rails to added
flare. If necessary, modify flare taper and flare
length to fit new rail installation to ground
conditions. See Sheets 6-11 for Details.
Est. Quant.

Sta. to Sta.	New Guard Rail (L.F.)	Reconstructed Guard Rail (L.F.)	Type Flare
71+26 - 71+76 Rt.	13 13.5	37 37.5	"B"
74+10 - 74+73 Rt.	50 50.0	13 12.5	"E"
84+17 - 84+54 Rt.	25 27.4	13 15.1	"C"
88+23 - 88+85 Rt.	50 51.4	13 40.1	"F"
91+22 - 92+36 Lt.	38 38.9		"F"
97+76 - 98+13 Lt.	25 27.4	13 12.5	"C"
115+48 - 115+23 Rt.	50 52.4		"C"
117+47 - 117+27 Rt.	38 38.9	13 0	"F"
117+86 - 118+35 Lt.	25 15.0	25 25.1	"Std" One Curved Rail Req'd. R=30'
118+23 - 119+30 Rt.	38 39.8		"C"
120+42 - 121+04 Rt.	63 76.3		"D" Emb. 10 Cu. Yd. "F"
126+37 - 126+62 Lt.	25 26.4		"F"
128+13 - 128+50 Lt.	25 40.0	13	"C"
85+20 - 85+45 Rt.	25 26.4	10	"Std."*

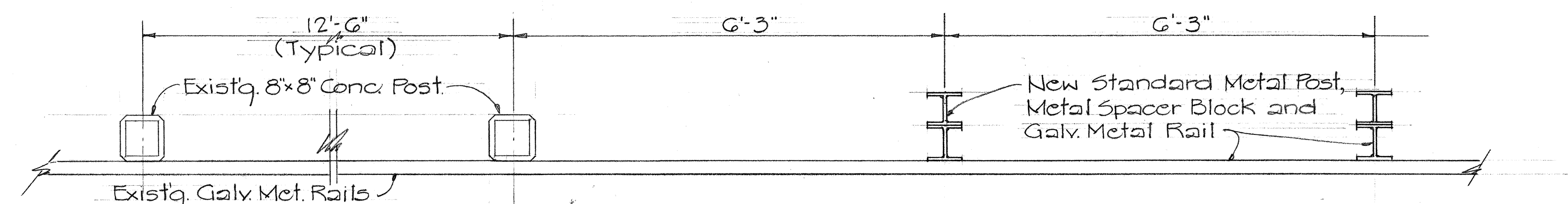
* End Post Connections to Molokai Stream Bridge
See Sheet No. 5 for Details.



NOTE: Steel Posts in the existing
concrete gutter shall be avoided
whenever possible by varying the
final Guard Rail alignment as
directed by the Engineer.

DETAIL OF METAL GUARD RAIL
IN EXISTING CONC. GUTTER

Scale: 1"=1'-0"

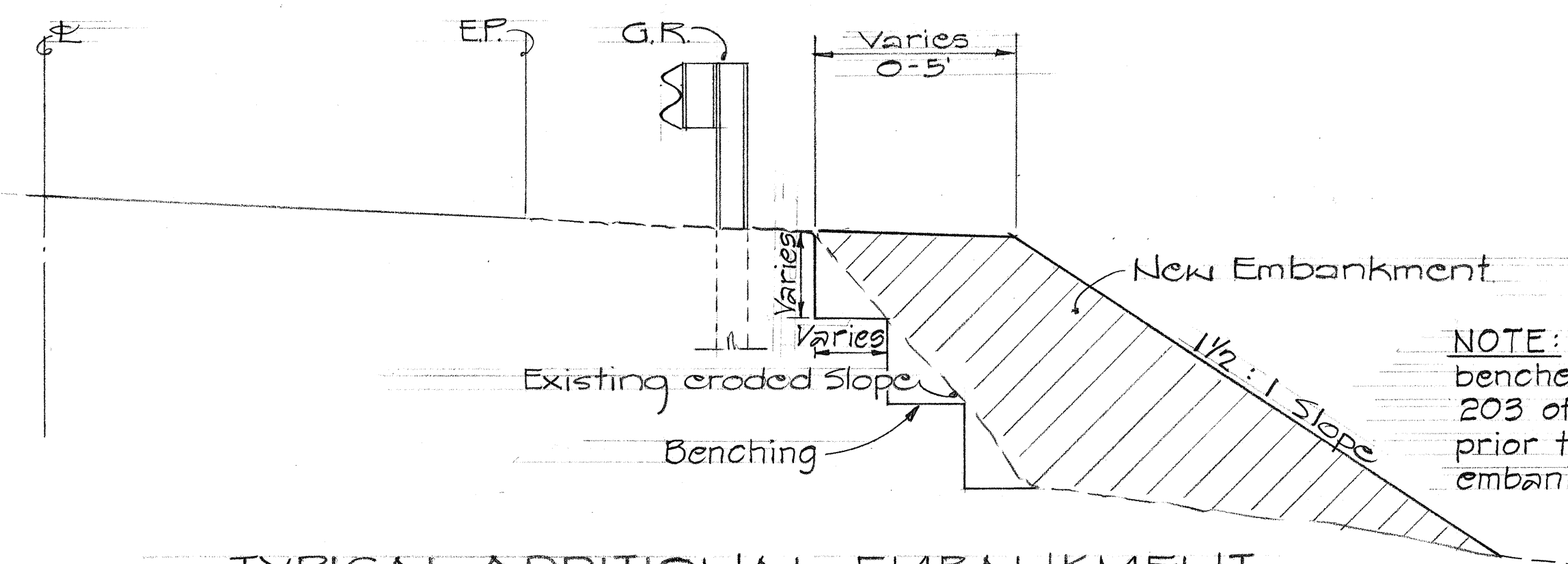


EXISTING TYPICAL GUARD RAIL OR
RECONSTRUCTED GUARD RAIL SECTION

NEW GUARD RAIL SECTION

PLAN ~ CONNECTION DETAIL OF
NEW GUARD RAIL TO EXISTING

Scale: 3/4"=1'-0"



NOTE: The existing slope shall be
benched in accordance with Section
203 of the Standard Specifications
prior to placement of the new
embankment.

TYPICAL ADDITIONAL EMBANKMENT

Not to scale

DATE	_____
DESIGNED BY	_____
TRACED BY	_____
NOTED BY	_____
CHECKED BY	_____
APPROVED BY	_____

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**KAUAI BELT ROAD
GUARD RAIL IMPROVEMENTS**

PROJ. No. 56C-01-73

DETAILS

Scale: As Shown Feb 1973

SHEET No. 1 OF 1 SHEETS