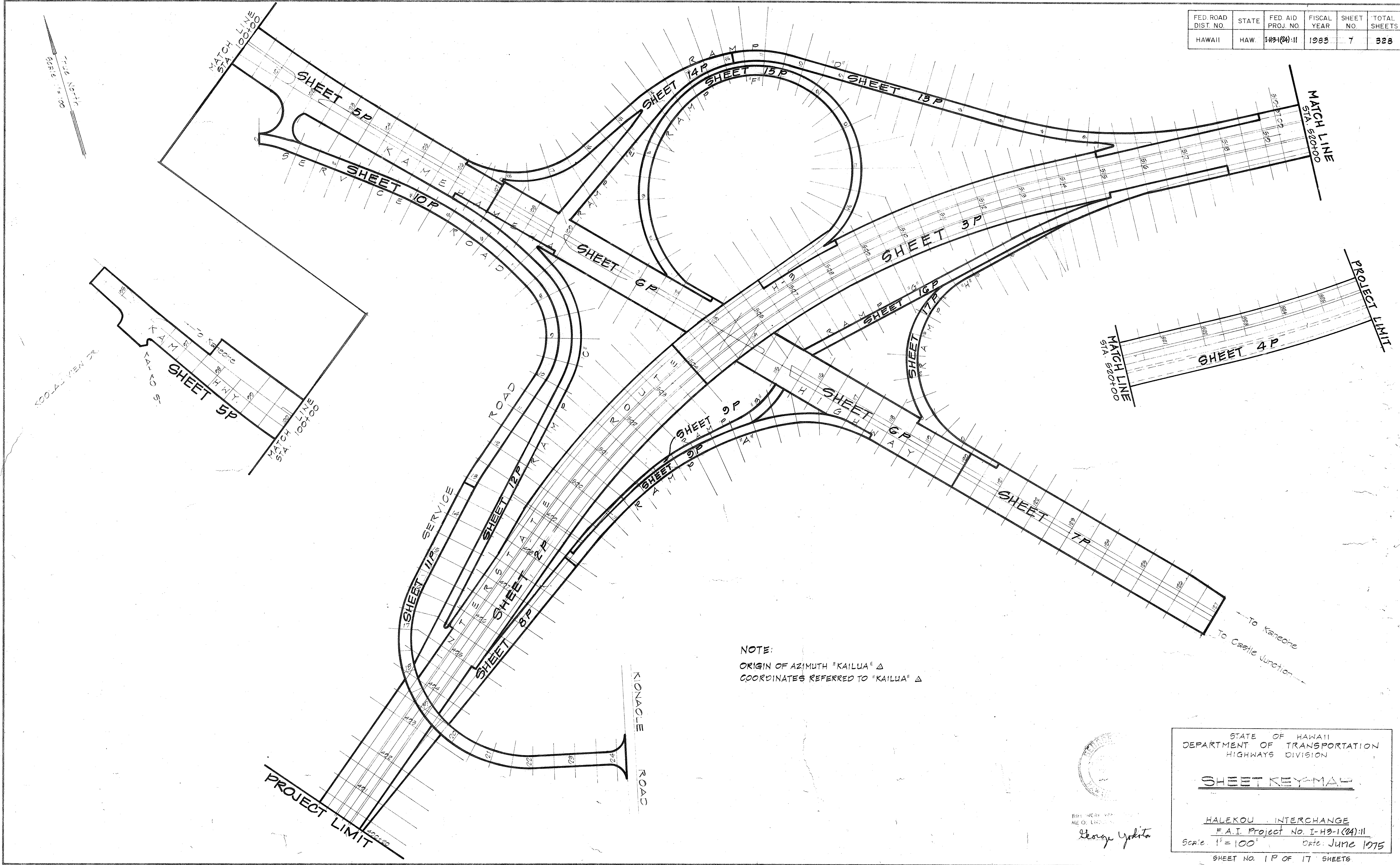


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H3-1(24)-11	1983	7	328



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SHEET KEY-MAP

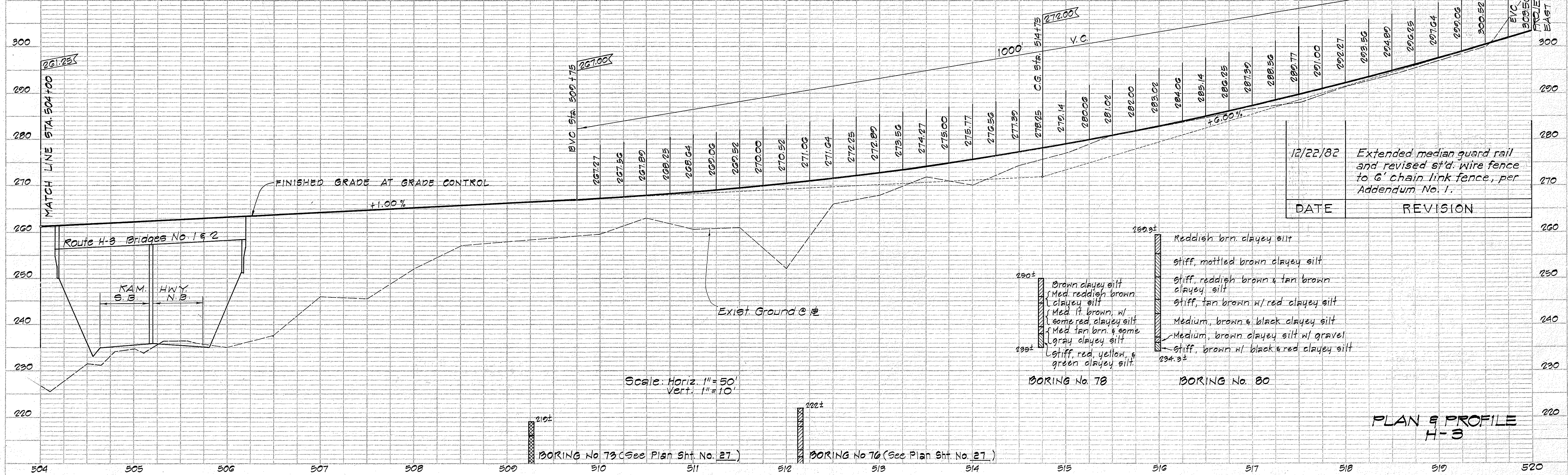
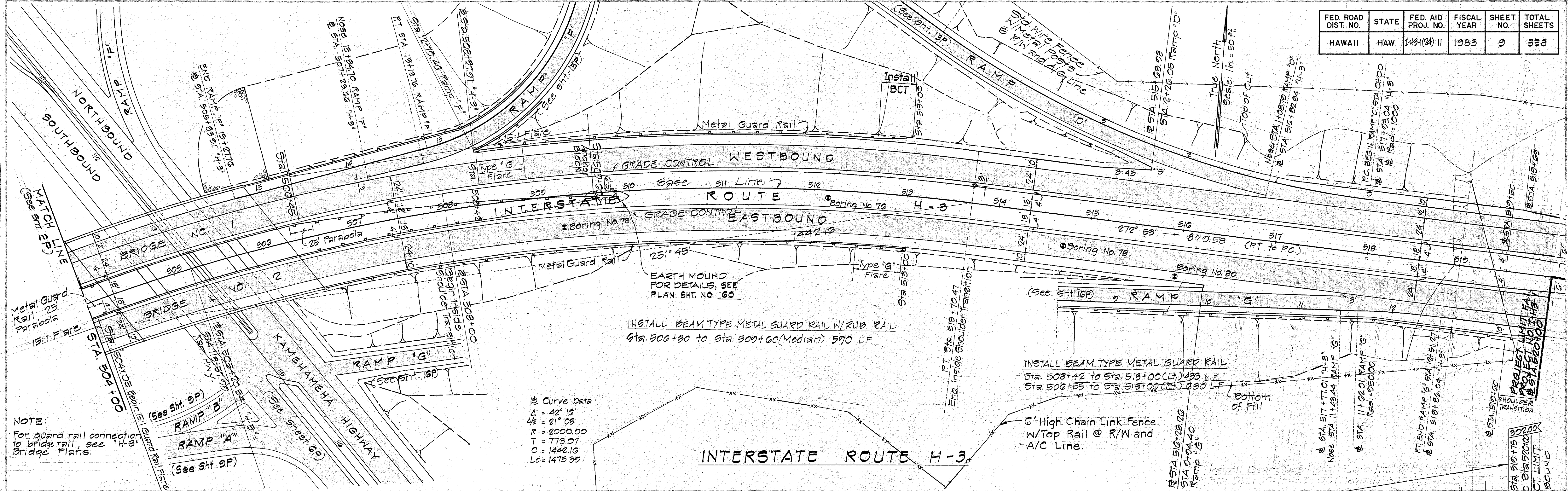
HALEKOU INTERCHANGE
F.A.I. Project No. I-H3-1(24)-11
Scale: 1" = 100' Date: JUNE 1975

SHEET NO. 1P OF 17 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	149-1(24)-11	1983	9	326

PLAN	DATE	BY
DESIGNED		
CHECKED		
NOTED		
DATE		

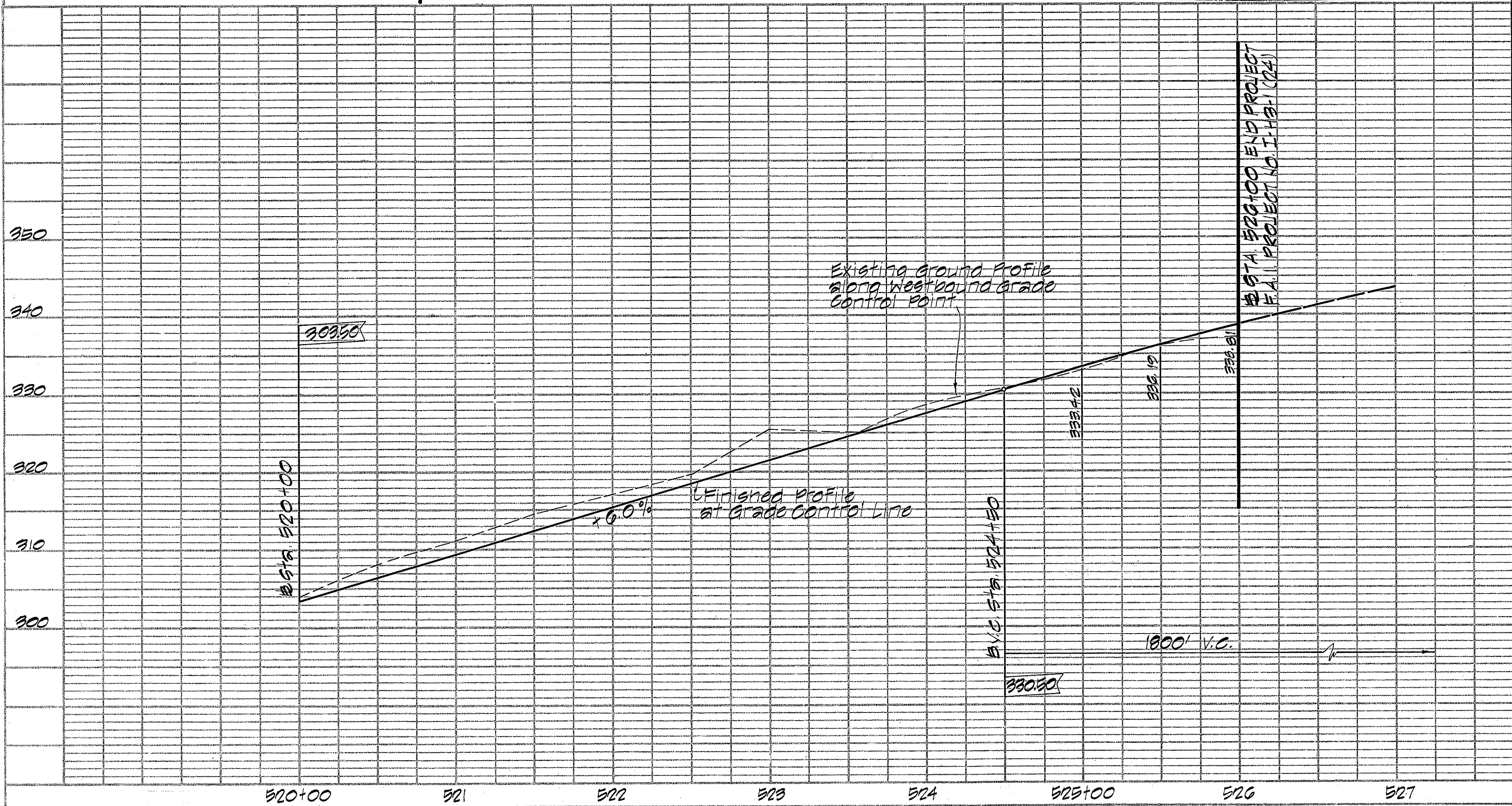
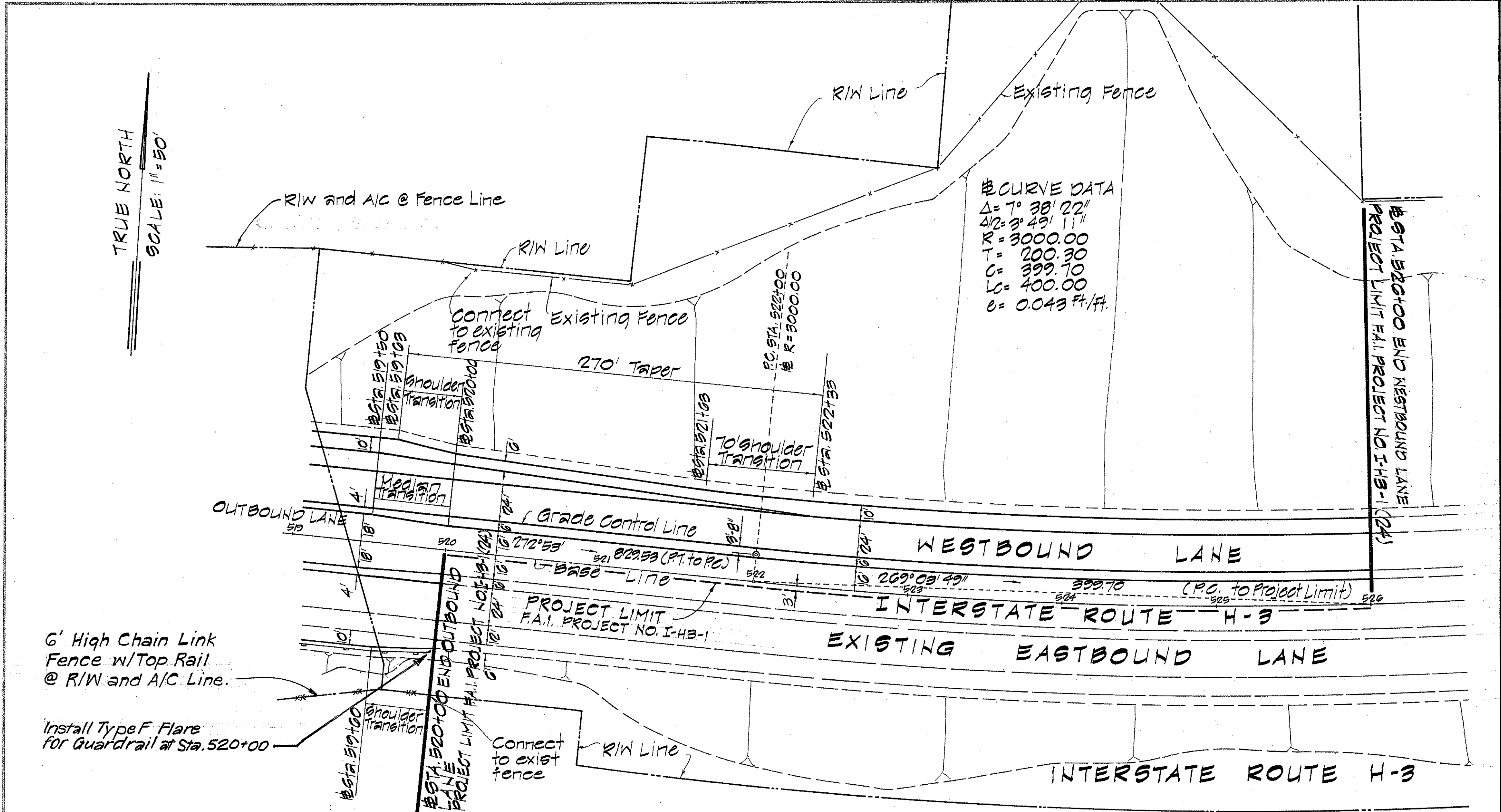
PROFILE	DATE	BY
DESIGNED		
CHECKED		
NOTED		
DATE		



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	543-1(24)-11	1983	10	328

PLAN	DATE	BY
SURVEYED		
NOTES		
PLACEMENT CHECKED		
NOTE BOOK		
NO.		

PROFILE	DATE	BY
SURVEYED		
NOTES		
GRADES CHECKED		
NO.		



12/22/82

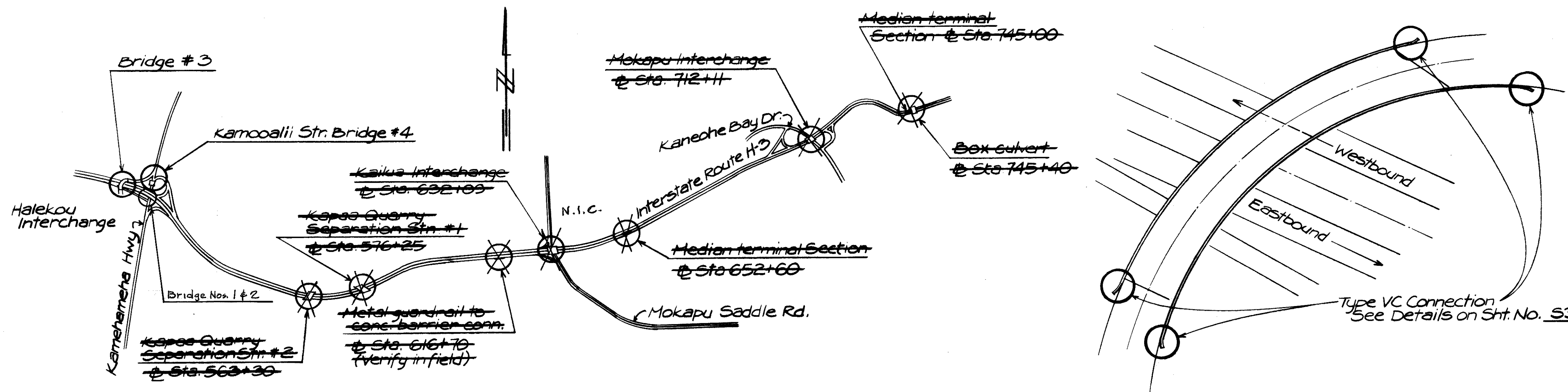
Revised st'd. wire fence to 6' chain link fence per Addendum No. 1.

DATE

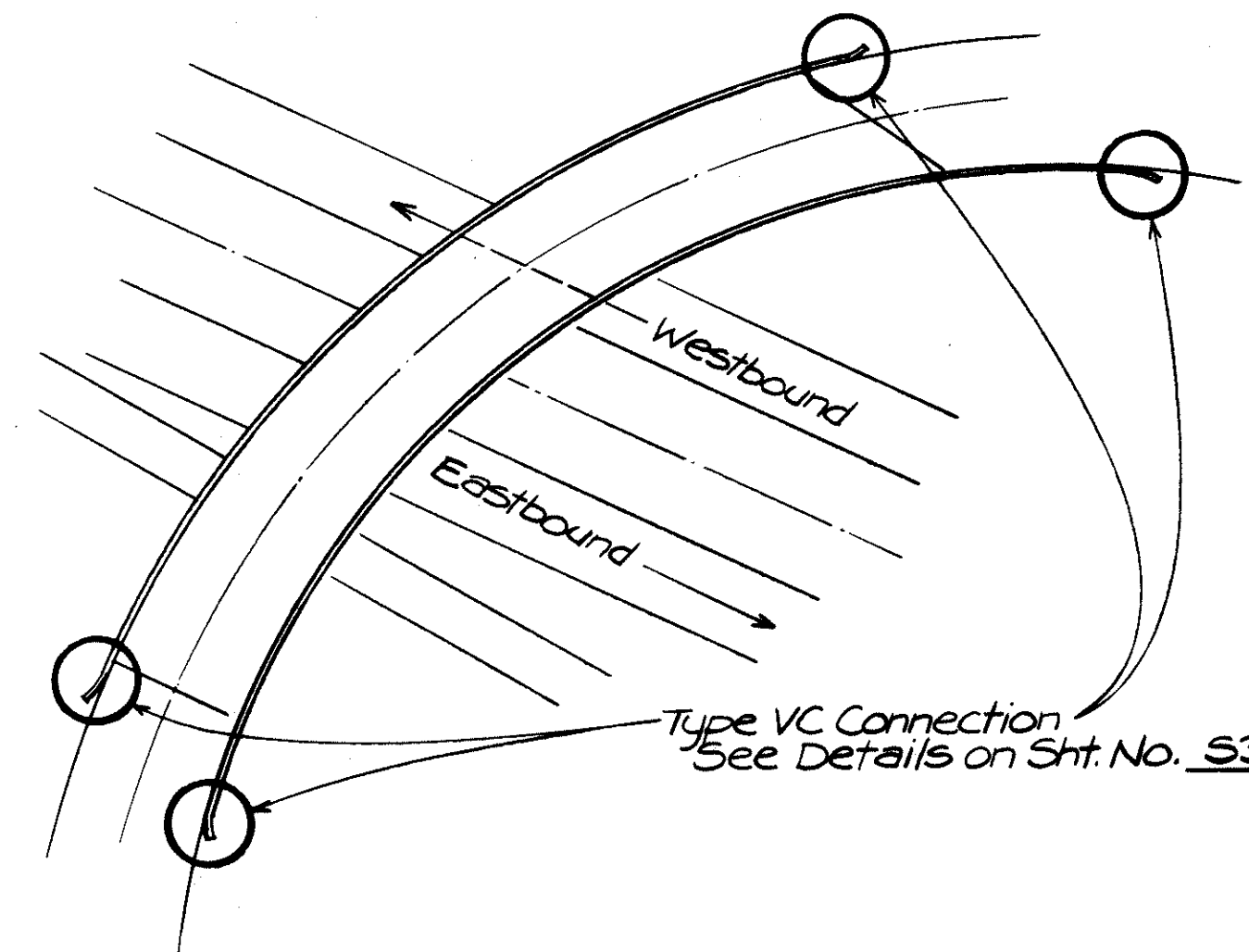
REVISION

PLAN & PROFILE
H-3

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IE-H3-1(56)	1988	60,109	40



WORK SITE LOCATION PLAN
Not To Scale



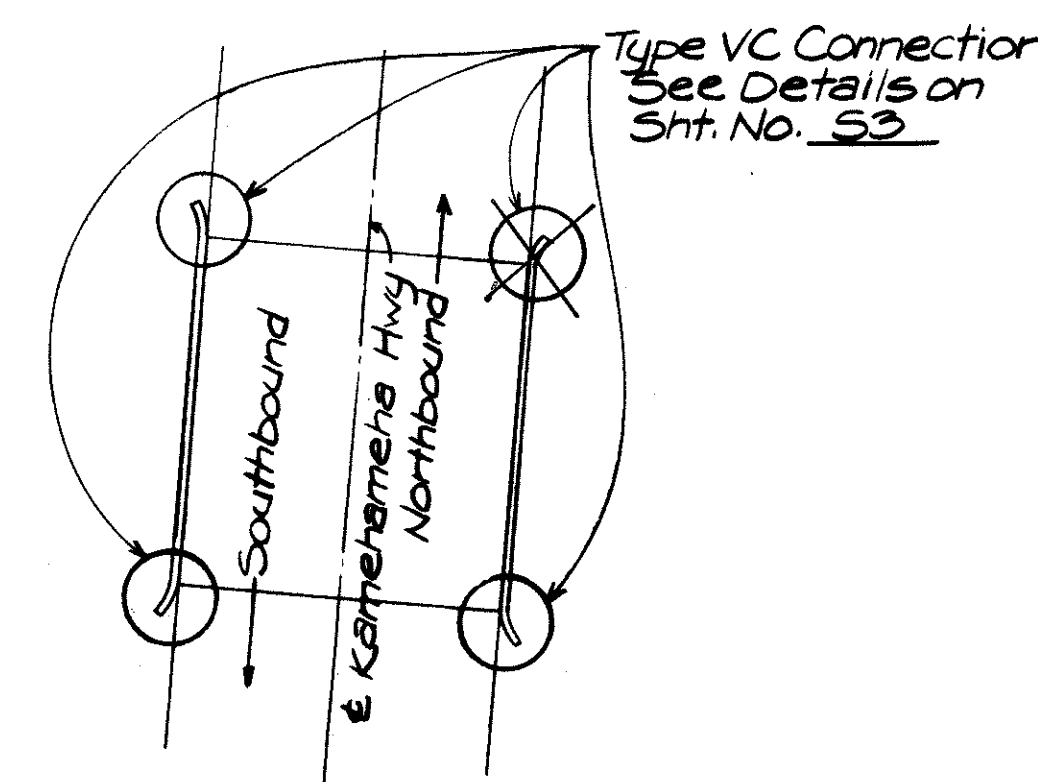
BRIDGE #3
Not To Scale

GENERAL NOTES

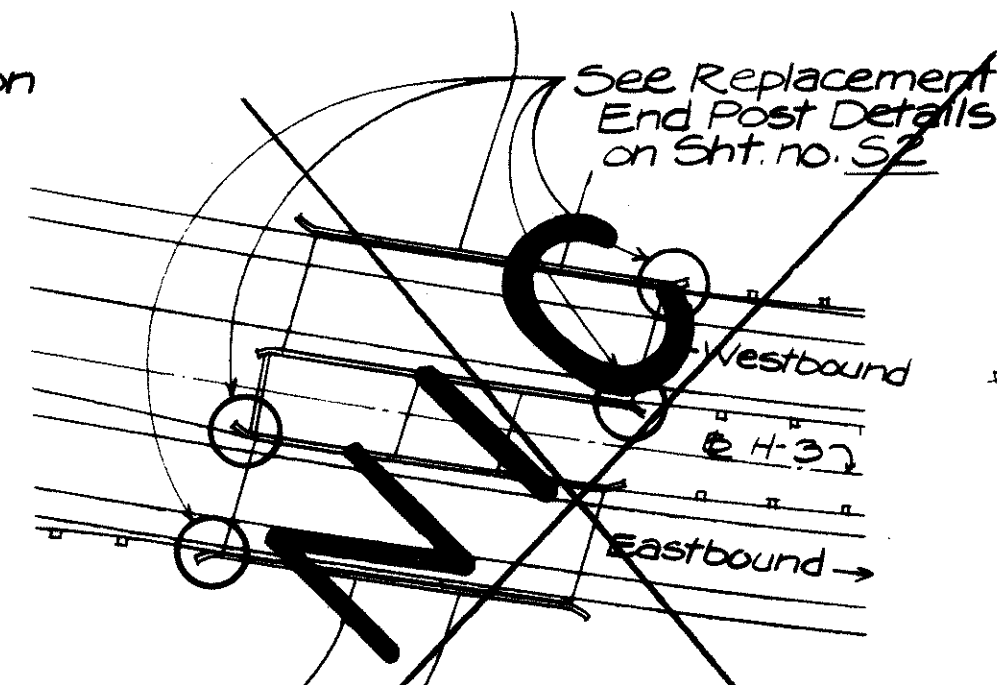
- See Standard Specifications for Road and Bridge Construction (Hawaii 1985) and Special Provisions.
- See State of Hawaii, D.O.T. Standard Plans; Sht. # TE-50, TE-51, and TE-57 for details of metal guardrail and "terminal connector".
- All anchor bolts shall be high strength bolts conforming to the requirements of ASTM A325.
- "Terminal Connector" shall be fabricated from 10 gauge steel conforming to the requirements of AASHTO M180.
- All anchor bolts, cap fl, nuts and washers shall be hot-dipped galvanized.
- First 25'-0" of guardrail adjoining "Terminal Connector" shall be of galvanized steel and supports spaced at 1'-6 3/4" for the first 6'-3" and at 3'-1 1/2" for the balance.
- Large impacting or vibratory type of equipment will not be permitted in the removal operation of the designated items nor for drilling of holes.
- Any damage to the existing structures due to the Contractor's operation shall be repaired at his or her expense, to the satisfaction of the Engineer.
- The Contractor shall verify all the dimensions in the field before commencing with work.
- The Contractor shall verify the location of all existing utility lines near structures and notify their respective owners before commencing with work.
- All wooden spacer blocks to be treated with approved wood preservative.

ESTIMATED QUANTITIES

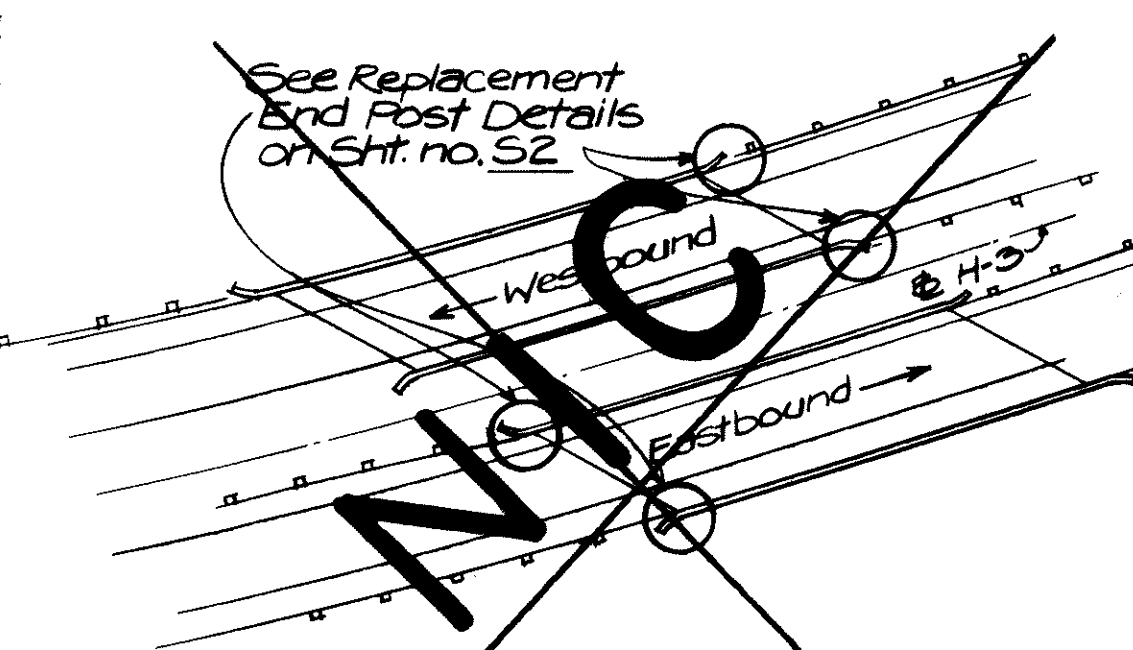
Item No.	Item	Unit	Quantity
NIC	Removal of Concrete End Post	Ea.	16
NIC	Removal of Median Terminal Section	L.F.	170
507.3600	Metal Tube Sleeve Installation @ Intermediate Joints	Ea.	2
NIC	Metal Tube Sleeve Installation @ Replacement End Post	Ea.	16
507.3602	Metal Tube Sleeve Installation @ Exist. Conc. End Post	Ea.	6
606.3111	Guardrail, Type 3 - Three Beam with Steel Post	L.F.	400
NIC	Beam Type Guardrail with Rubrail	L.F.	520
NIC	Replacement of Concrete Median Barrier (Type 4B)	L.F.	170
NIC	Replacement Concrete End Post	Ea.	16
606.8500	Type VC Connection	Ea.	8
NIC	Metal Guardrail To Concrete Barrier Connection	Ea.	1
NIC	Reconstructed Guardrail		



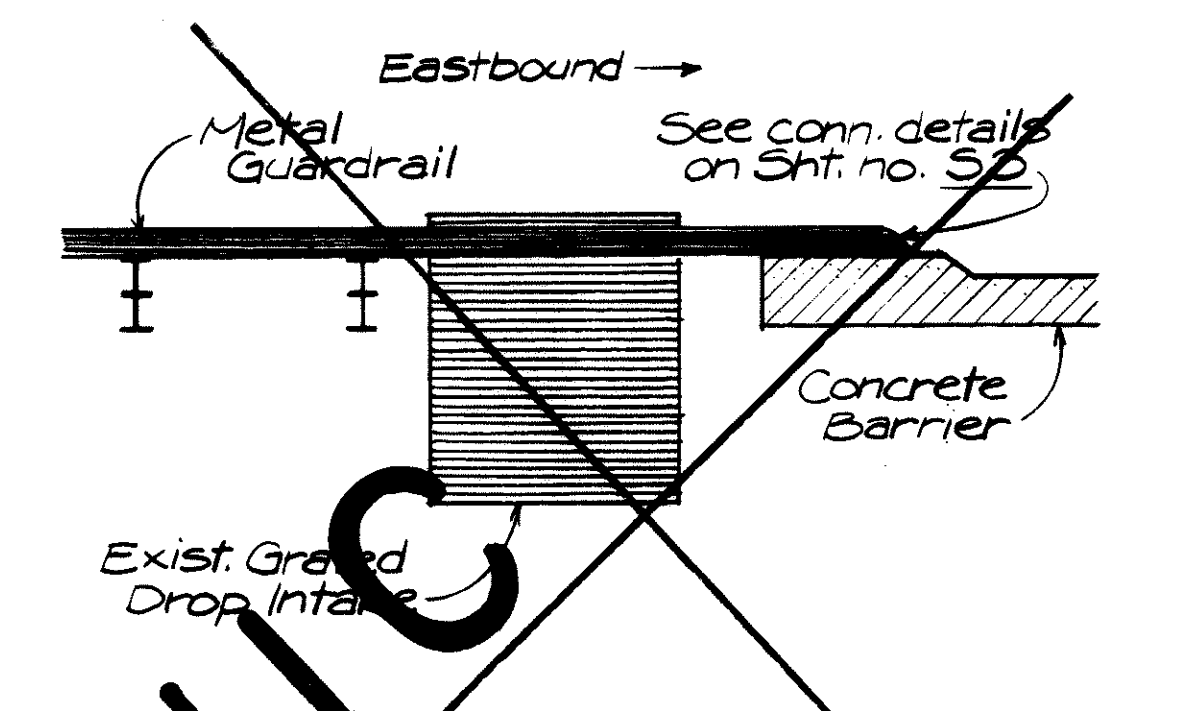
KAMOOALII STR. BR. BRIDGE #4
Not To Scale



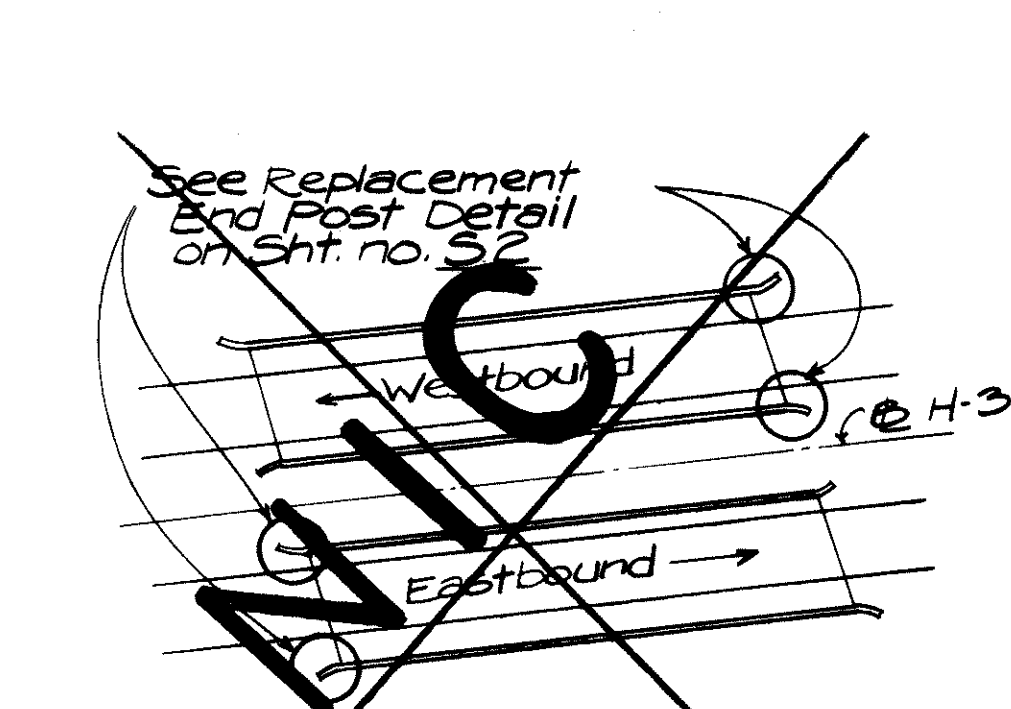
KAPAA QUARRY SEPARATION STRUCTURE #2
Not To Scale



KAPAA QUARRY SEPARATION STRUCTURE #1
Not To Scale



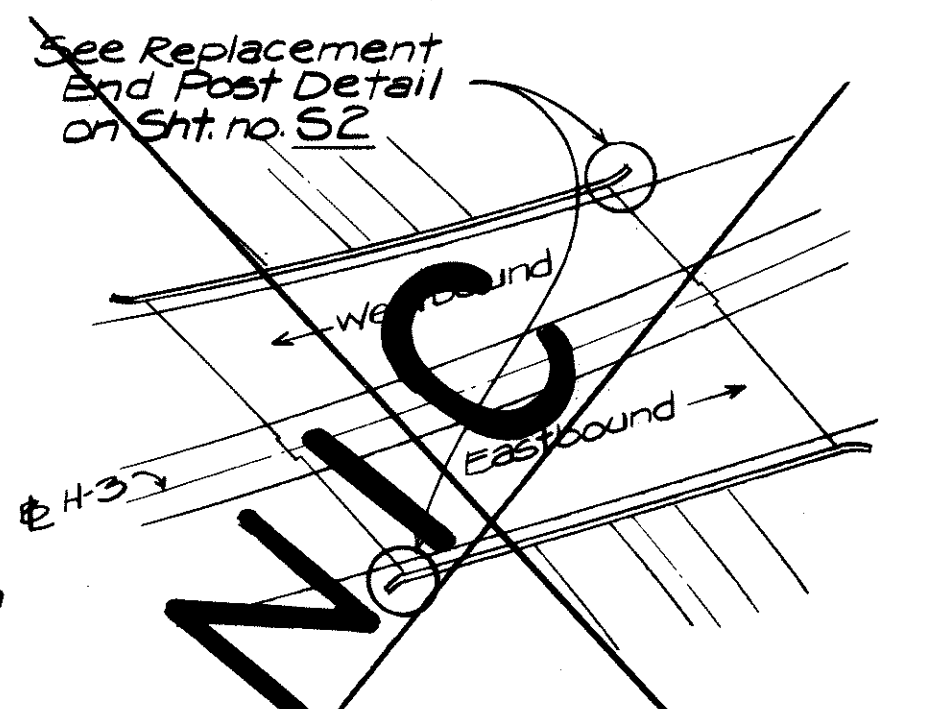
METAL GUARDRAIL TO CONCRETE BARRIER CONNECTION
Not To Scale



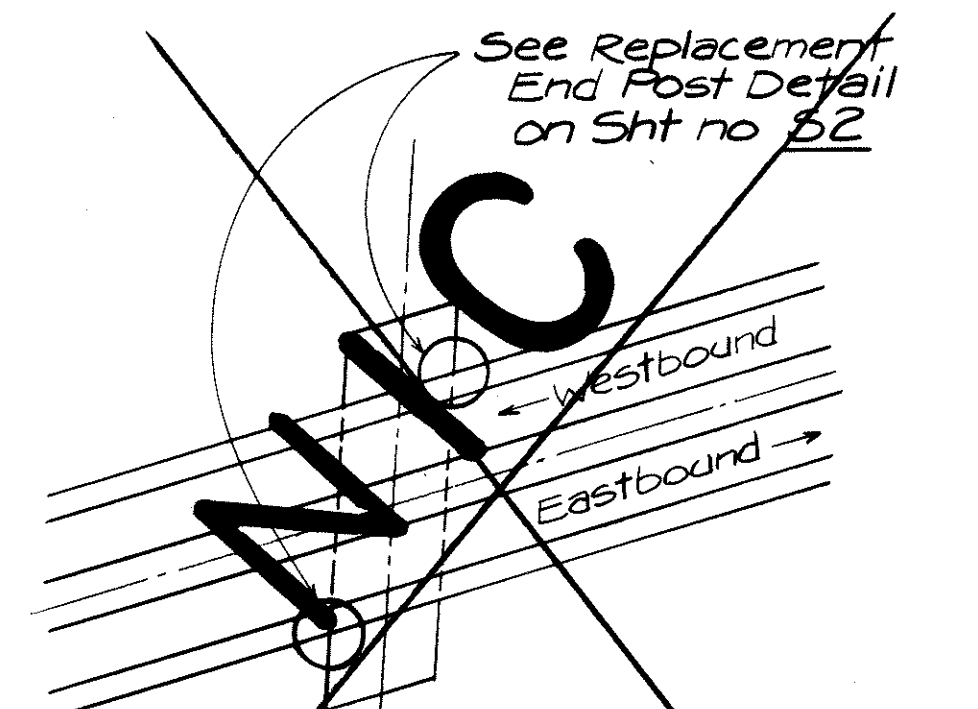
KAILUA INTERCHANGE
Not To Scale



MEDIAN TERMINAL SECTION
@ STA. 652+60 & STA. 745+00
Not To Scale



MOKAPU INTERCHANGE
Not To Scale



CONCRETE BOX CULVERT
@ STA. 745+40
Not To Scale

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
WORK SITE & STRUCTURE PLAN	
GENERAL NOTES & ESTIMATED QUANTITIES	
INTERSTATE ROUTE H-3 REHABILITATION	
HALEKOU INTERCHANGE	
F.A.I.R. No. IE-H3-1(56):11	
Scale: As Noted	Date: Mar 1988

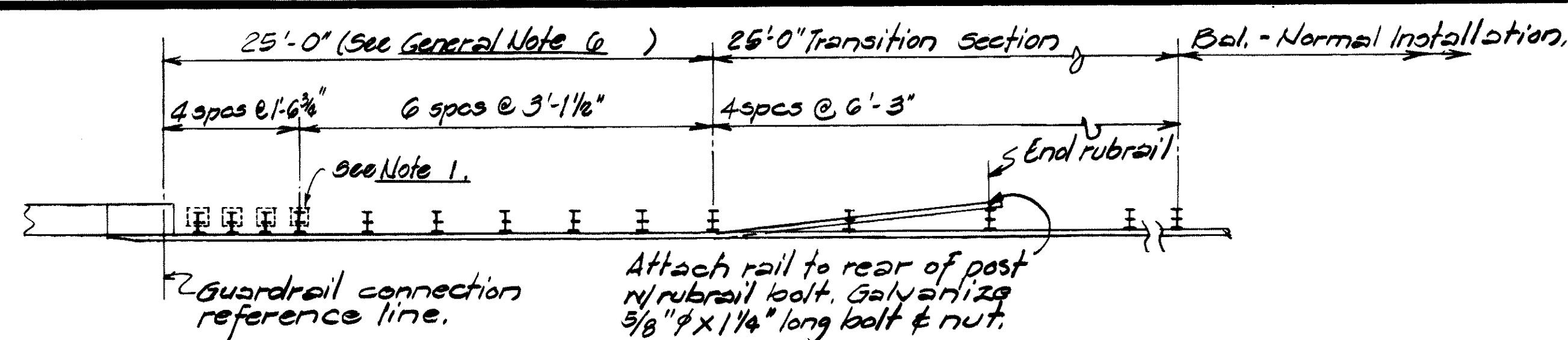
SHEET No. 51 OF 3 SHEETS

"AS BUILT"

C.O. 10 S-1

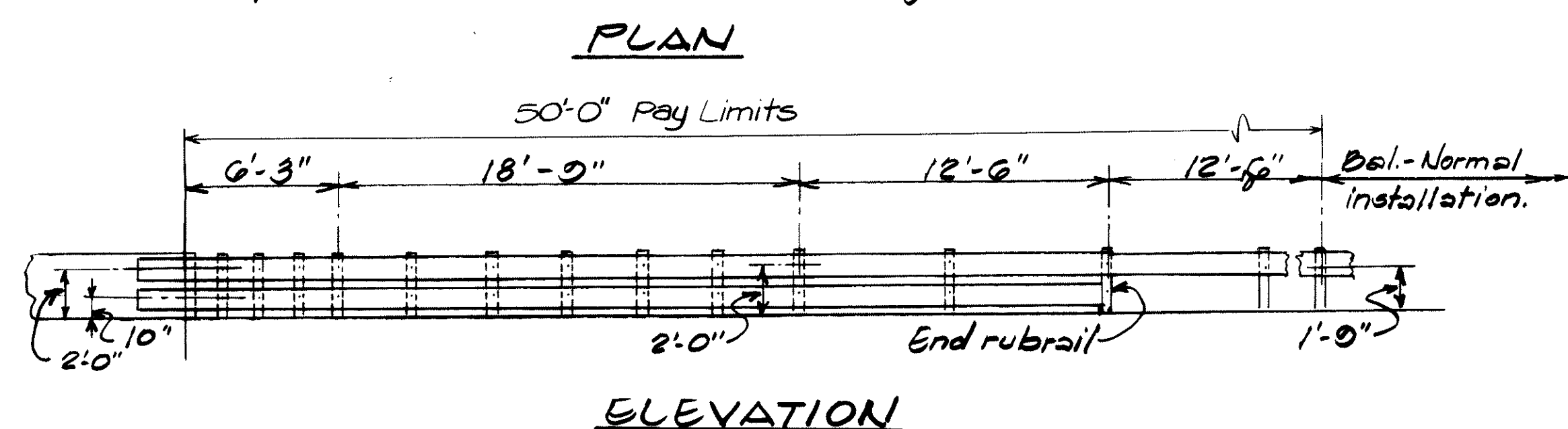
SURVEY PLOTTED BY	DATE
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR-H3-1(56)	1988	001052	40

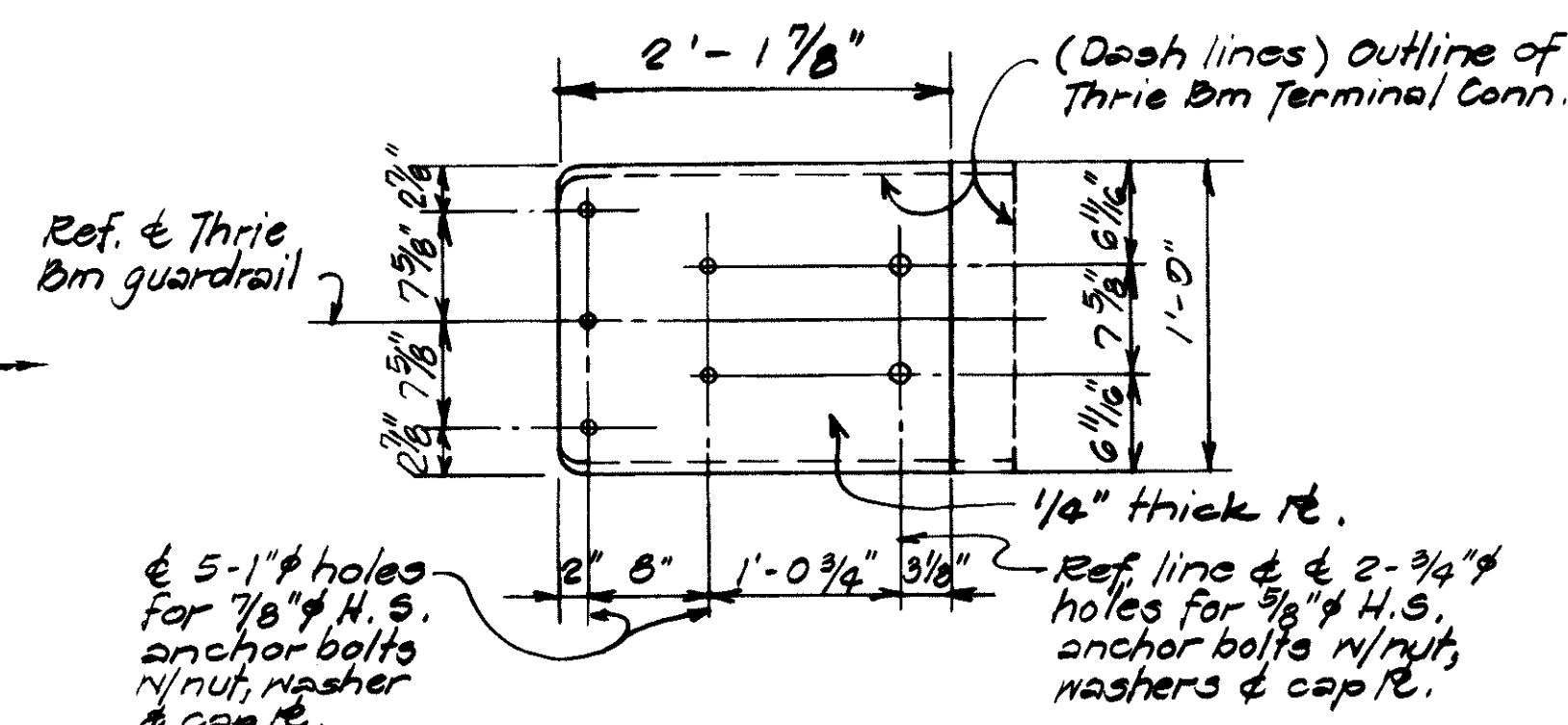


Note: 1. Where guardrail post occur on existing concrete surface, saw cut and remove approx. one (1) concentric sq. ft. opening for driving of post & fill with A.C. and refinish to match grade after installation of post.

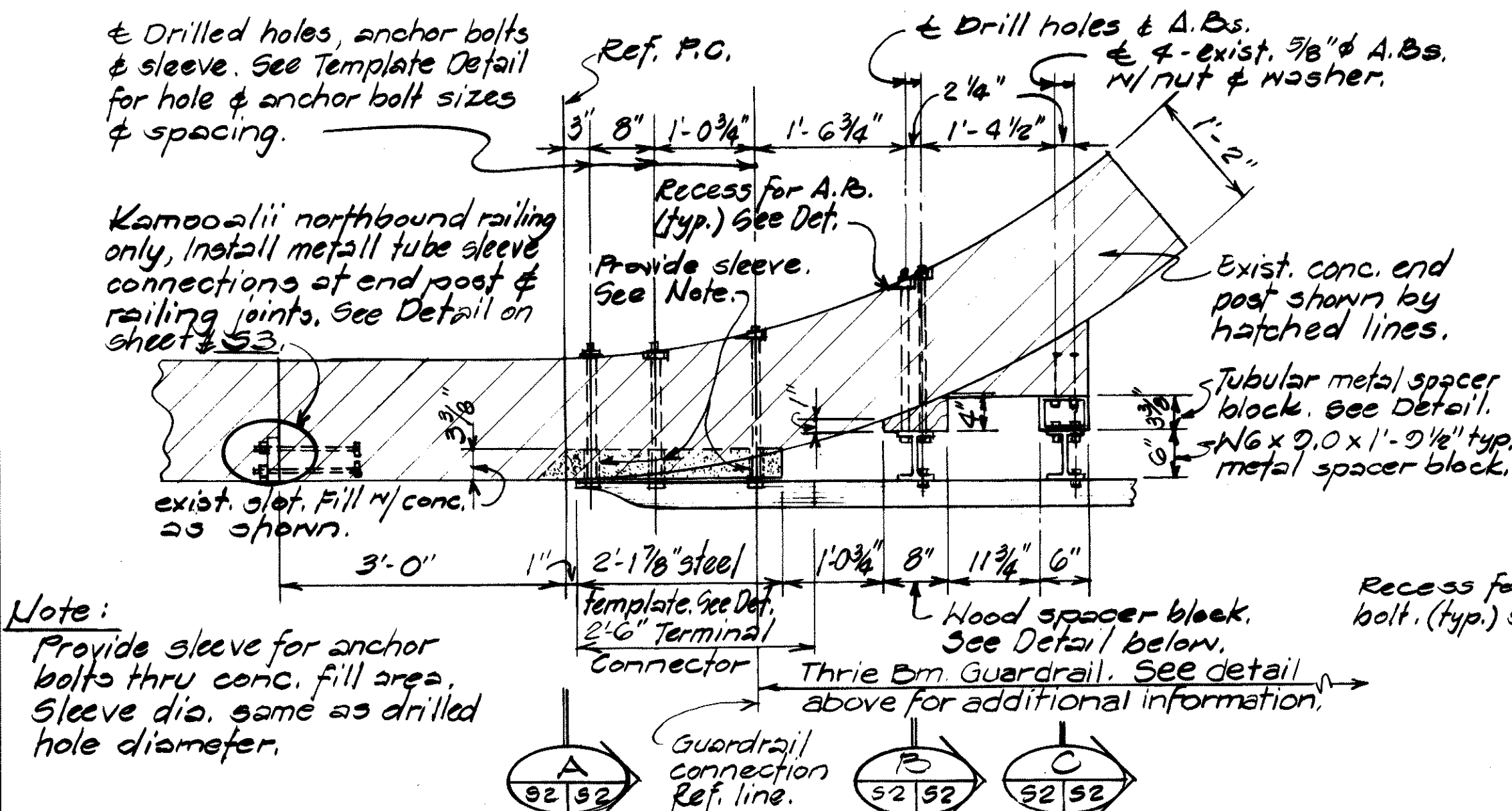
2. Exist. concrete surface to be bonded with the new concrete shall be thoroughly wetted with clean water and scrubbed with a solution of not more than one part hydrochloric (muriatic) acid to nine parts water followed immediately by thorough rinsing with clean water.



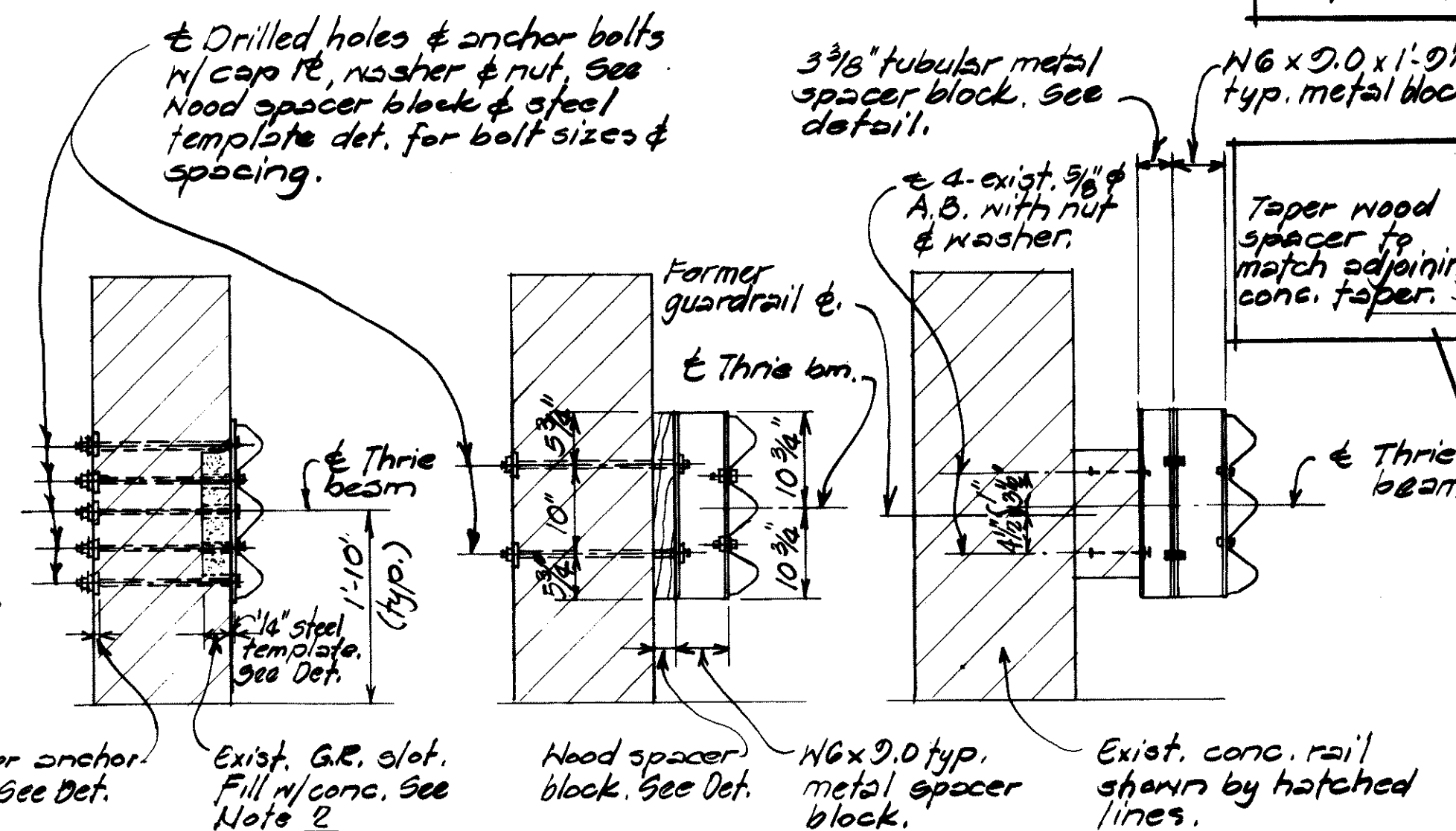
BEAM TYPE GUARDRAIL WITH RUBRAIL AT END OF CONCRETE END POST
(THREE BEAM GUARDRAIL POST SPACING SIMILAR) $S_{c=1/2} = 2/3 = 1'-0"$



STEEL TEMPLATE DETAIL
3/32" @ 1" = 1'-0"



Note:
Provide sleeve for anchor bolts thru conc. fill area, Sleeve dia. same as drilled hole diameter.

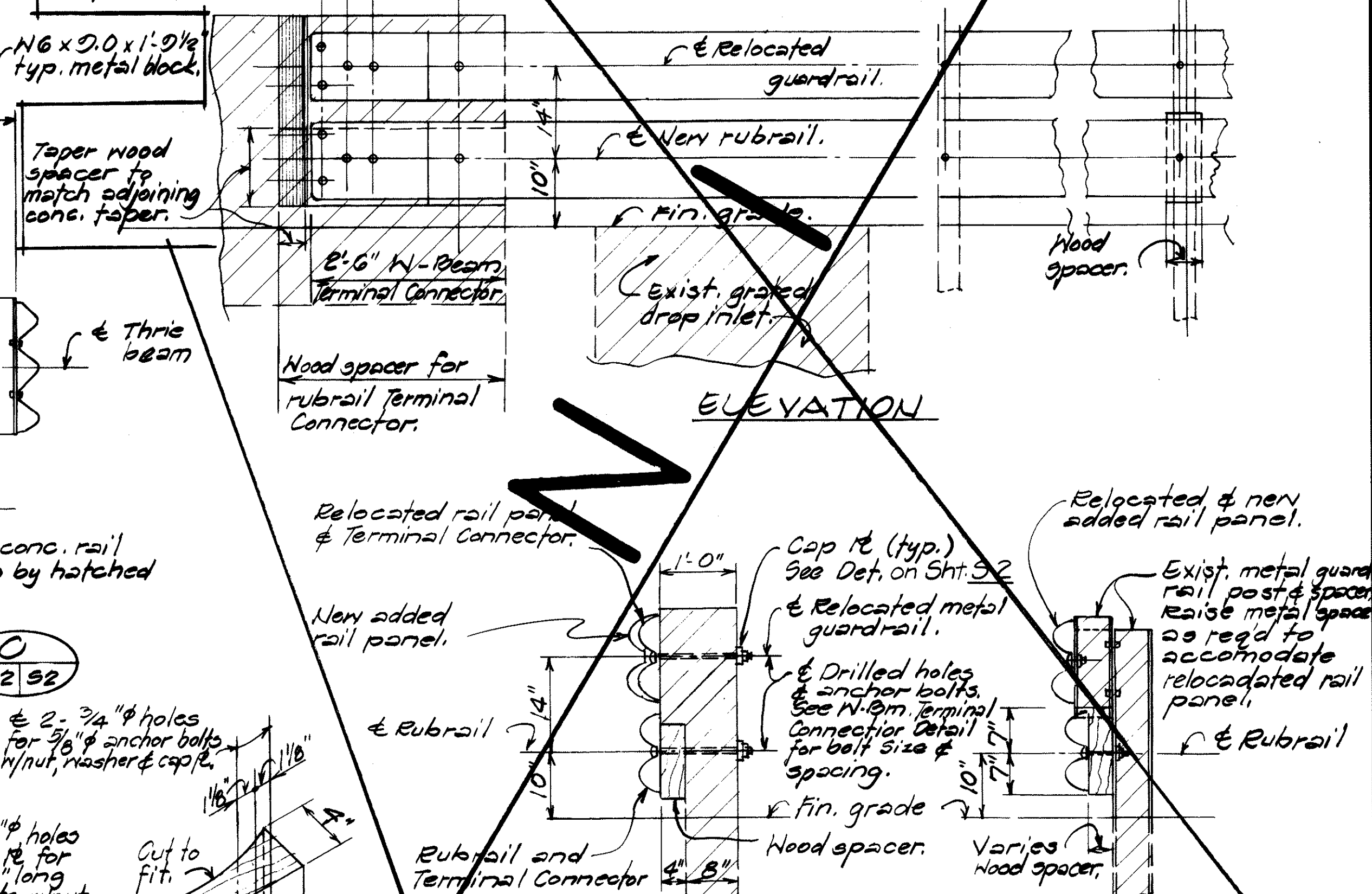


SECTION
Scale: 3/4" = 1'-0"

SECTION

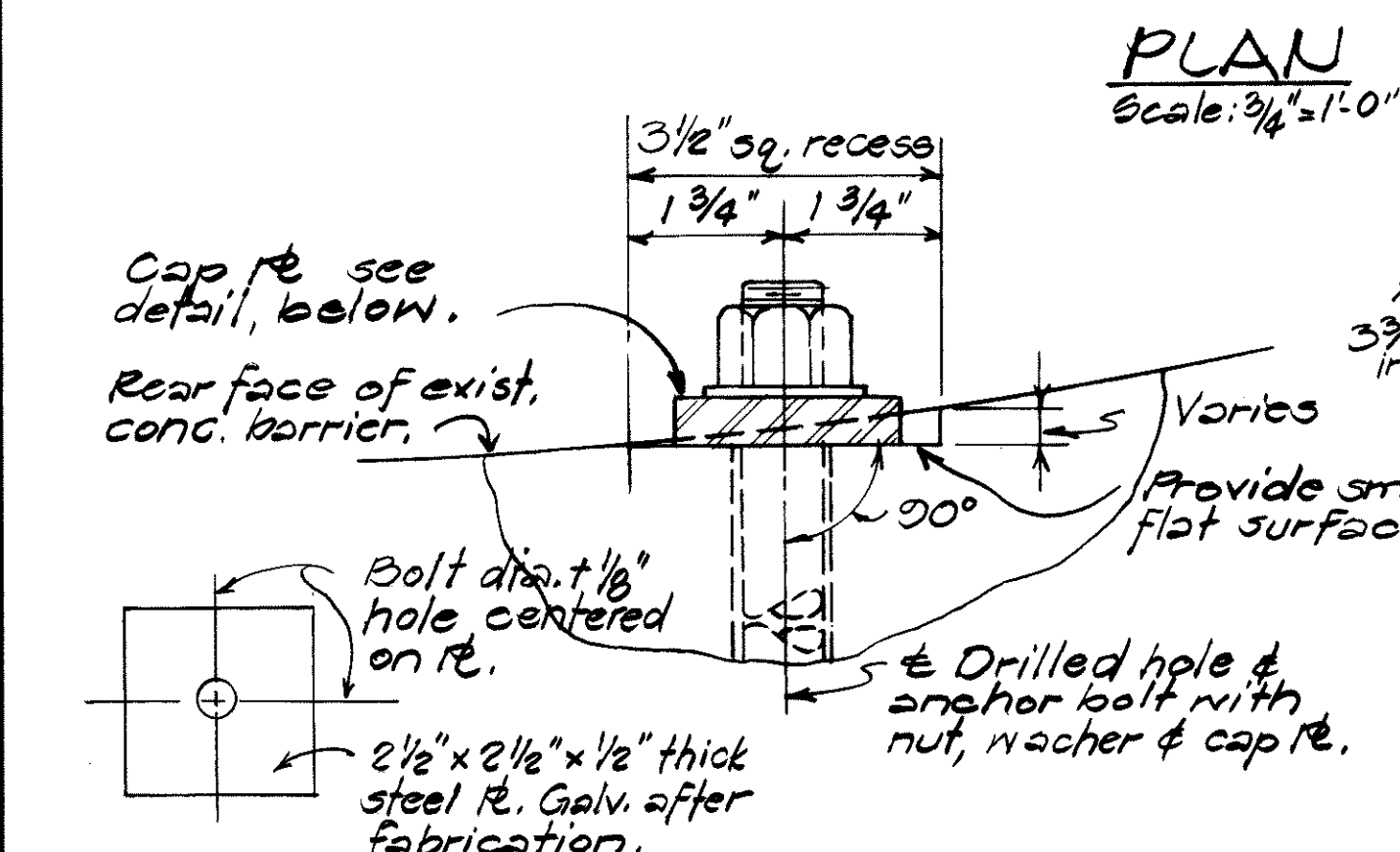
Scale: $\frac{3}{8}" = 1'-0"$

SECTION
Scale: $\frac{3}{8}'' = 1'-0''$

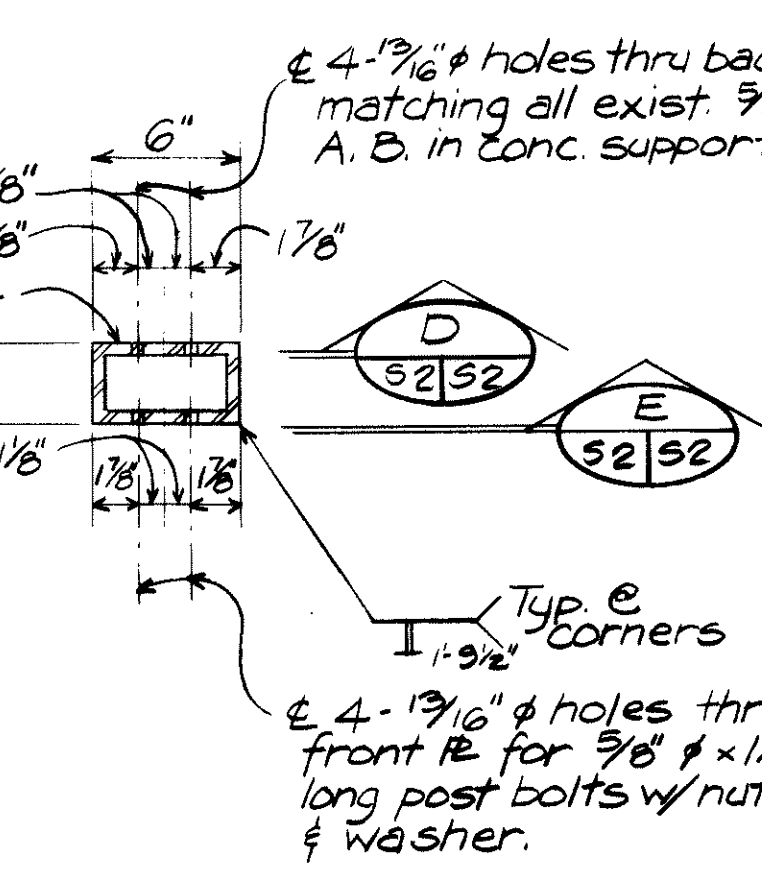


SECTION SECTION
METAL GUARDRAIL TO CONCRETE BARRIER CONNECTION DETAILS

\$ Sta. 616+70 ±
Scallops: 3/4" ± 1'-0"

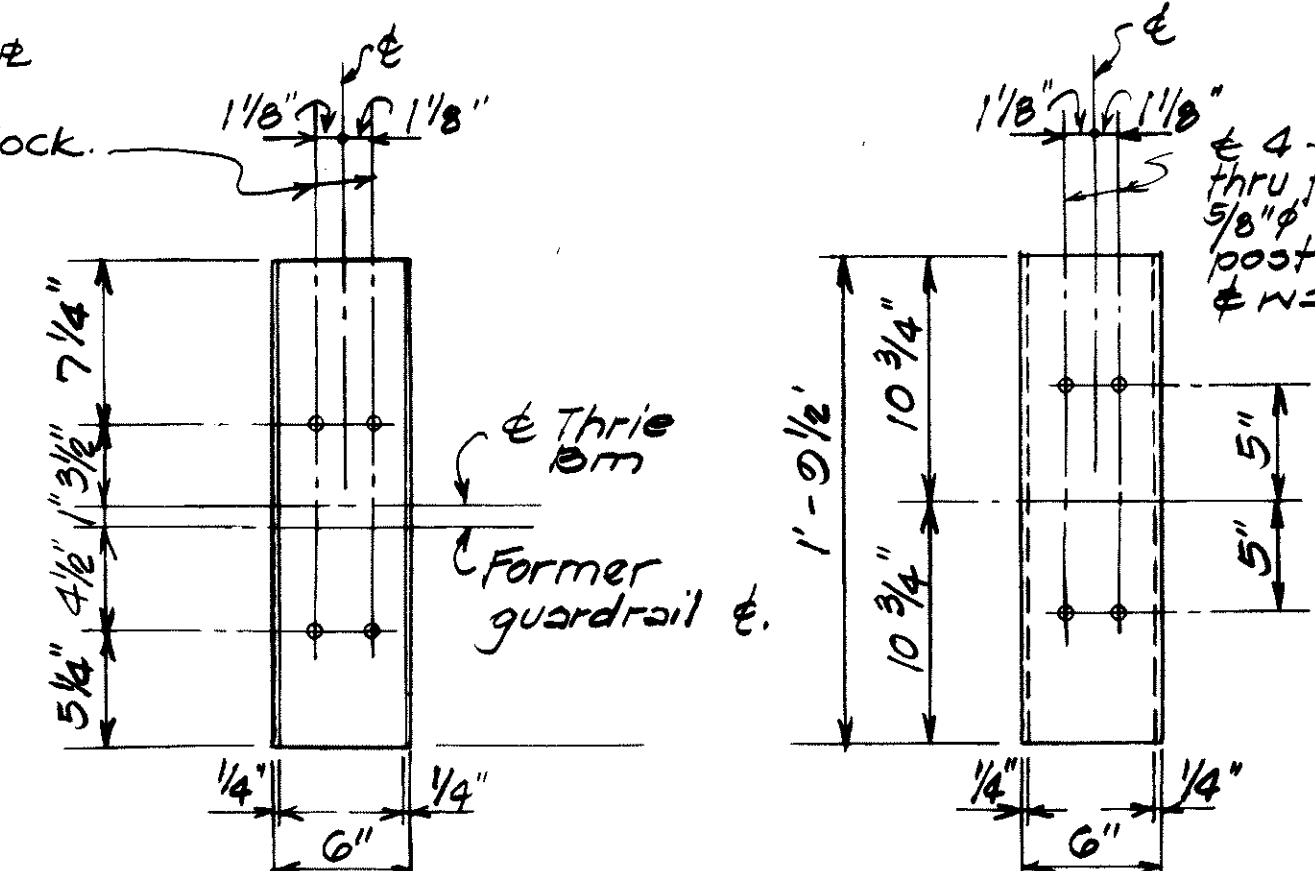


CAP & DETAIL TOP VIEW
DETAIL FOR RECESSED SEAT FOR
ANCHOR BOLT



PLAN SECTION SEC

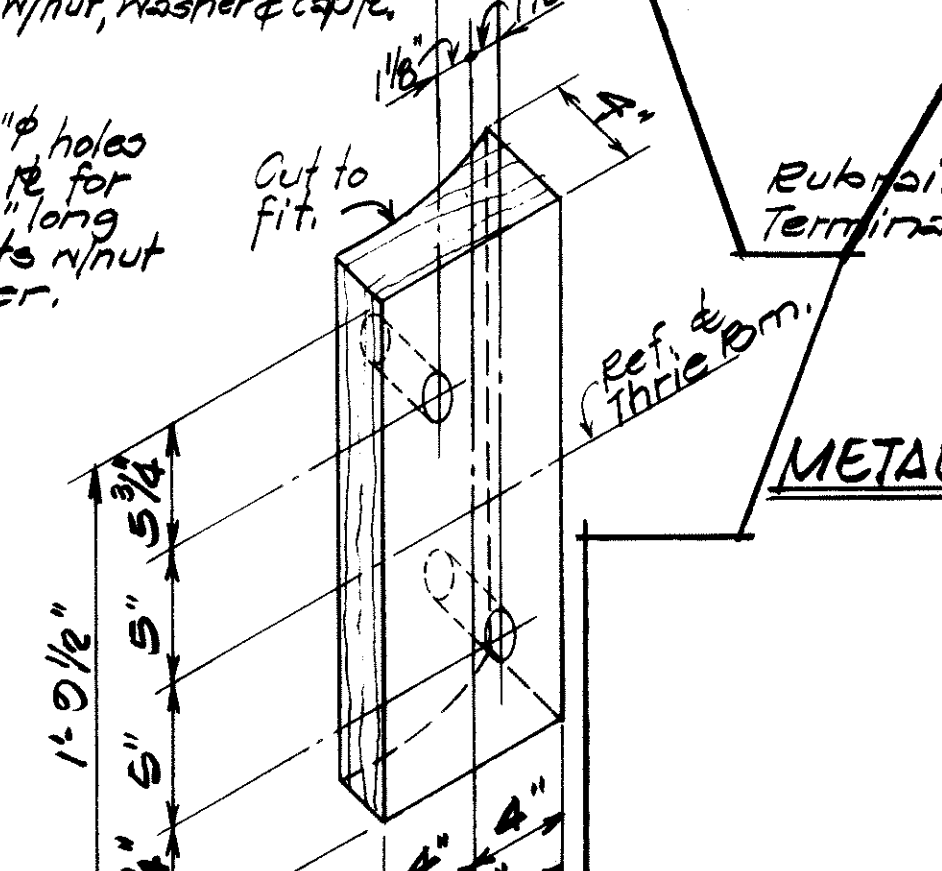
TUBULAR METAL SPACER BLOCK DETAILS



SECTION

52	52
----	----

 SEC
SPACED BLOCK DETAILS



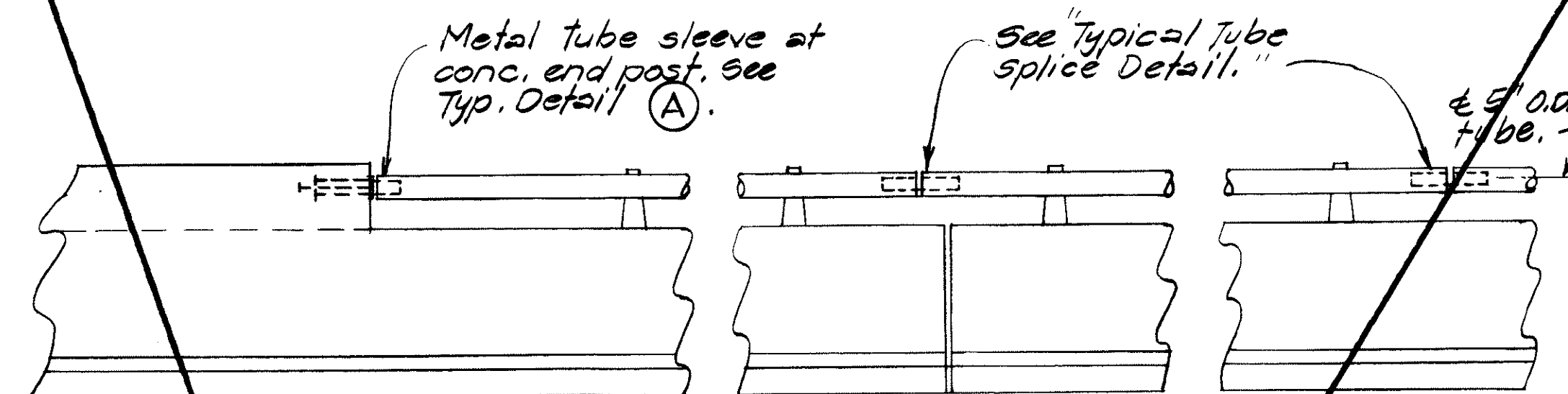
WOOD SPACER BLOCK DETAIL

TYPE VC CONNECTION DETAILS (AT EXISTING VERTICAL FACED, CURVED, END POST)

"AS BUILT

C.O. 10 S-2

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IR H3-1(56)	1988	621053	40



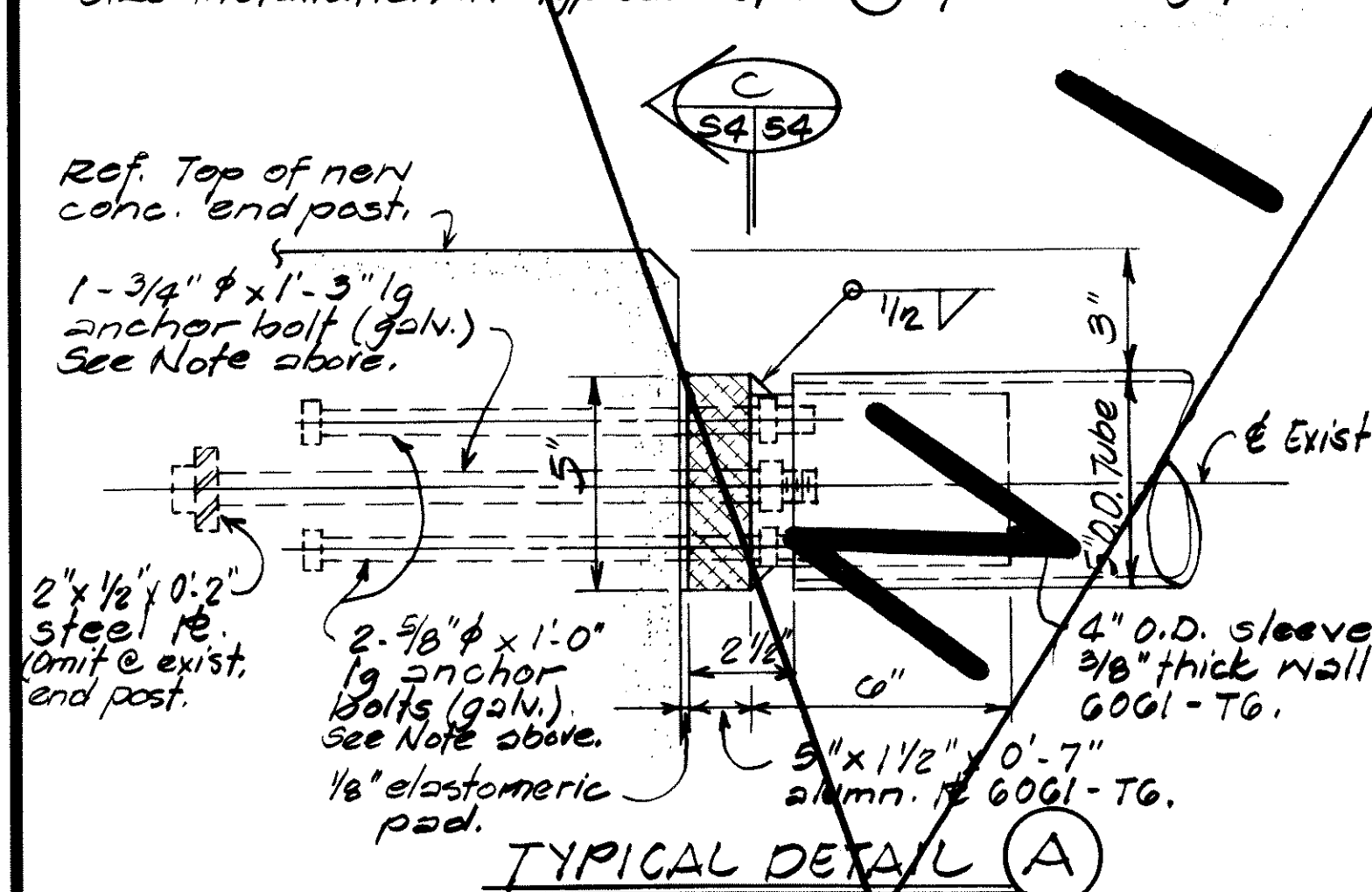
ELEVATION

METAL TUBE SLEEVE INSTALLATION DETAIL

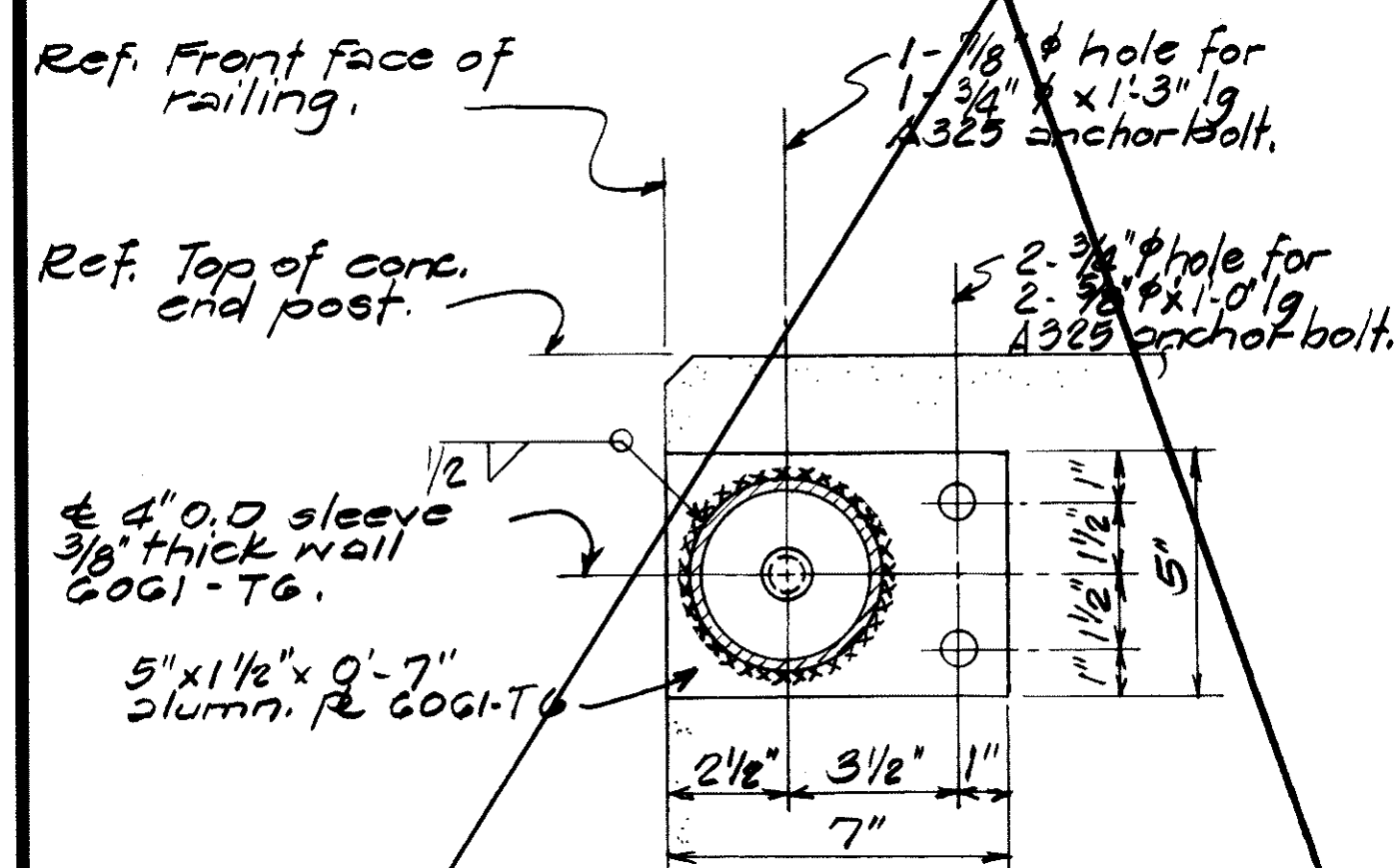
AT REPLACEMENT END POST, EXIST. END POST & RAIL JOINTS

Note:

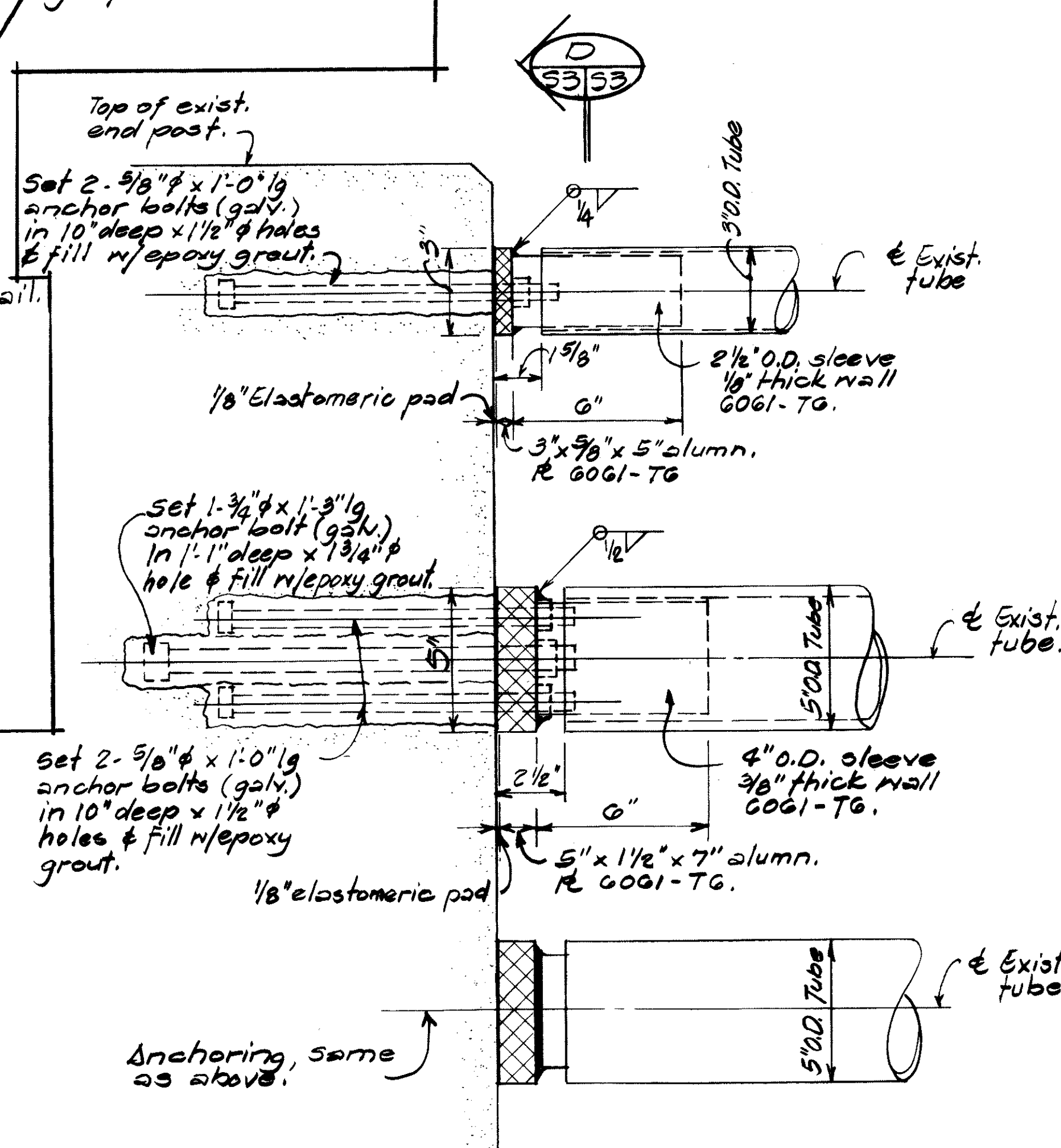
Installation of sleeve at exist. end post is similar to replacement end post, except for drilling of holes for anchor bolts. See appropriate size installation in "Typical Detail (B)" for drilling & anchoring information.



TYPICAL DETAIL (A)

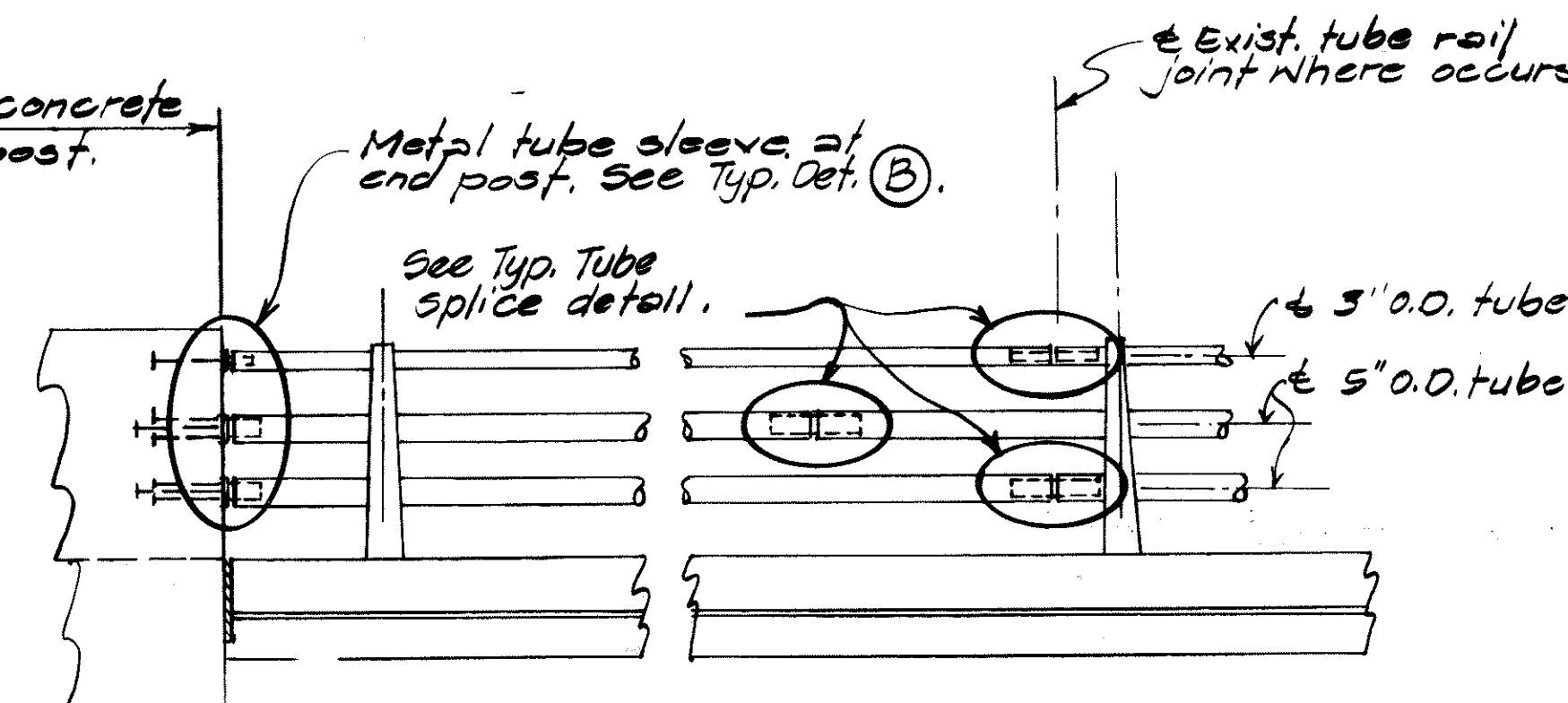


SECTION C



TYPICAL DETAIL (B)

Scale: 3"=1'-0"

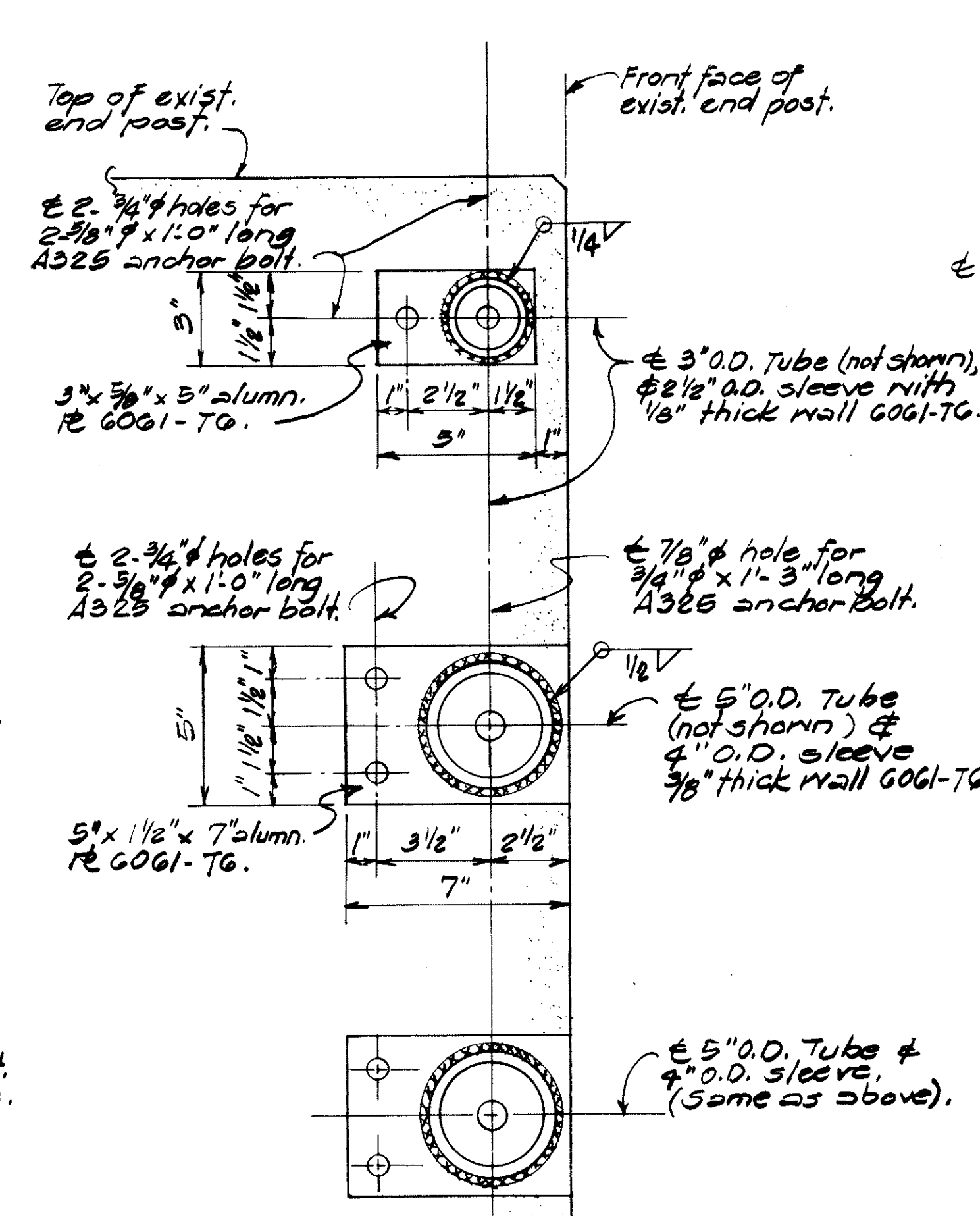


ELEVATION

KAMOOLII STREAM BRIDGE

METAL TUBE SLEEVE INSTALLATION DETAIL

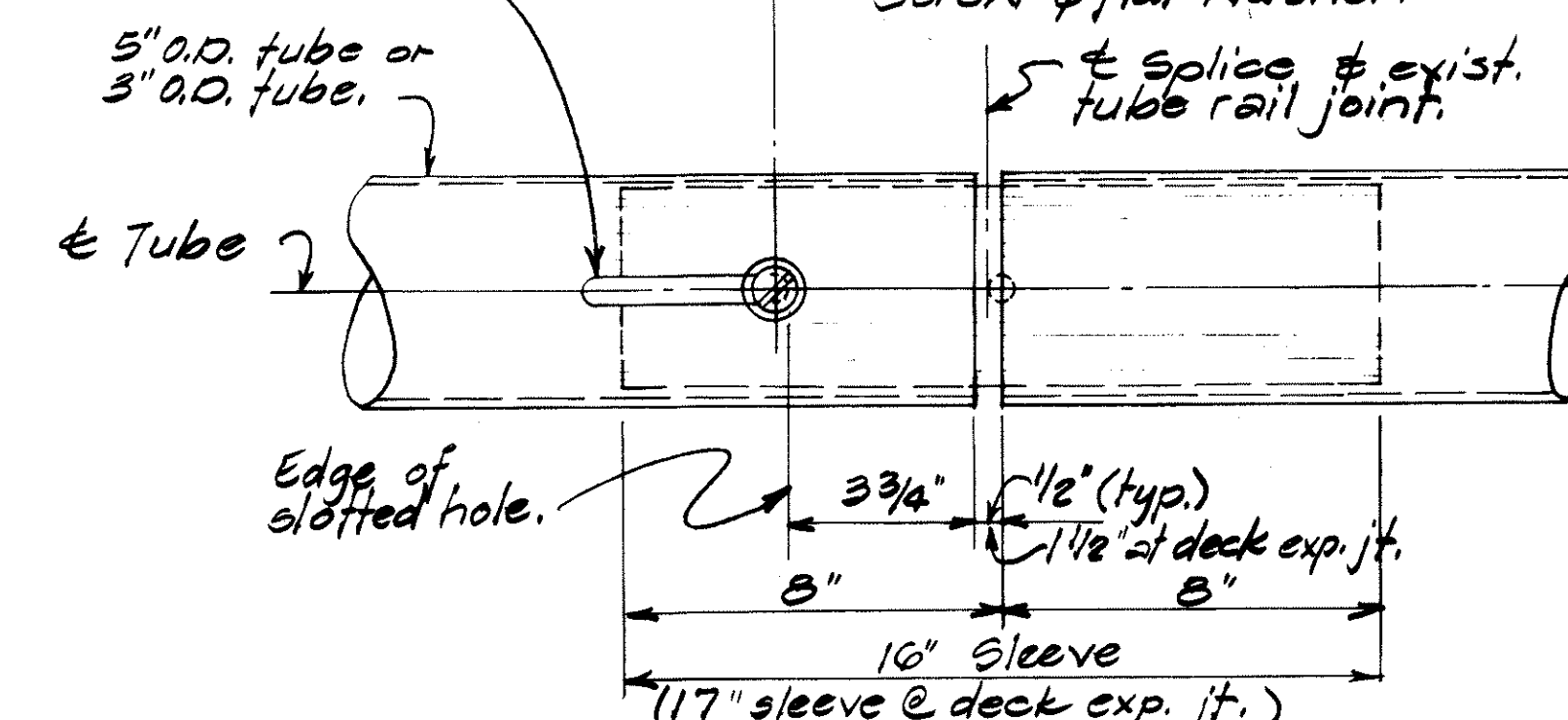
(NORTHBOUND RAILING ONLY)



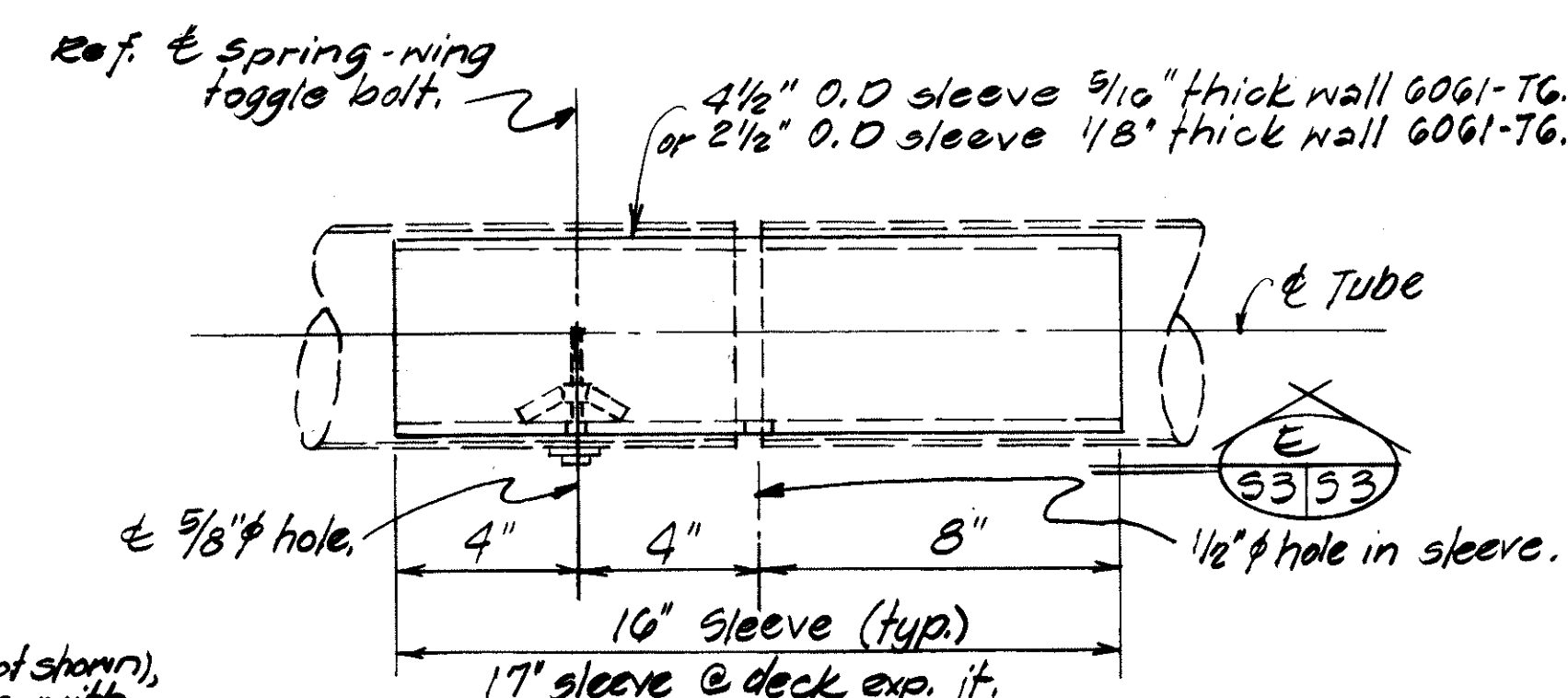
SECTION P

Scale: 3"=1'-0"

Slotted hole & toggle bolts shall be located on under side of tube. Slot size, 5/8" x 4 1/2".



BOTTOM VIEW



SLEEVE ~ (FRONT VIEW)

TYPICAL TUBE SPLICE DETAIL

Scale: 3"=1'-0"

METAL SLEEVE SCHEDULE

LOCATION	AT EXISTING END POST	AT REPLACEMENT END POST	AT INTERMEDIATE RAIL JOINTS
KAMOOLII (NORTHBOUND) RAILING ONLY	6	0	0
KAPAA STRUCTURE #2	4	4	16
KAPAA STRUCTURE #1	4	4	20
KAILUA INTERCHANGE	4	4	24
MOKAPI INTERCHANGE	2	2	11
2-656 BOX CULVERT	2	2	2
TOTAL	62	16	82

*Verify in field

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**END AND INTERMEDIATE SLEEVE
INSTALLATION DETAILS**

INTERSTATE ROUTE H-3 REHABILITATION
HALEKOU INTERCHANGE
F.A.T.P. No. IR-H3-1(56):11

Scale: As Noted Date: Mar 1988

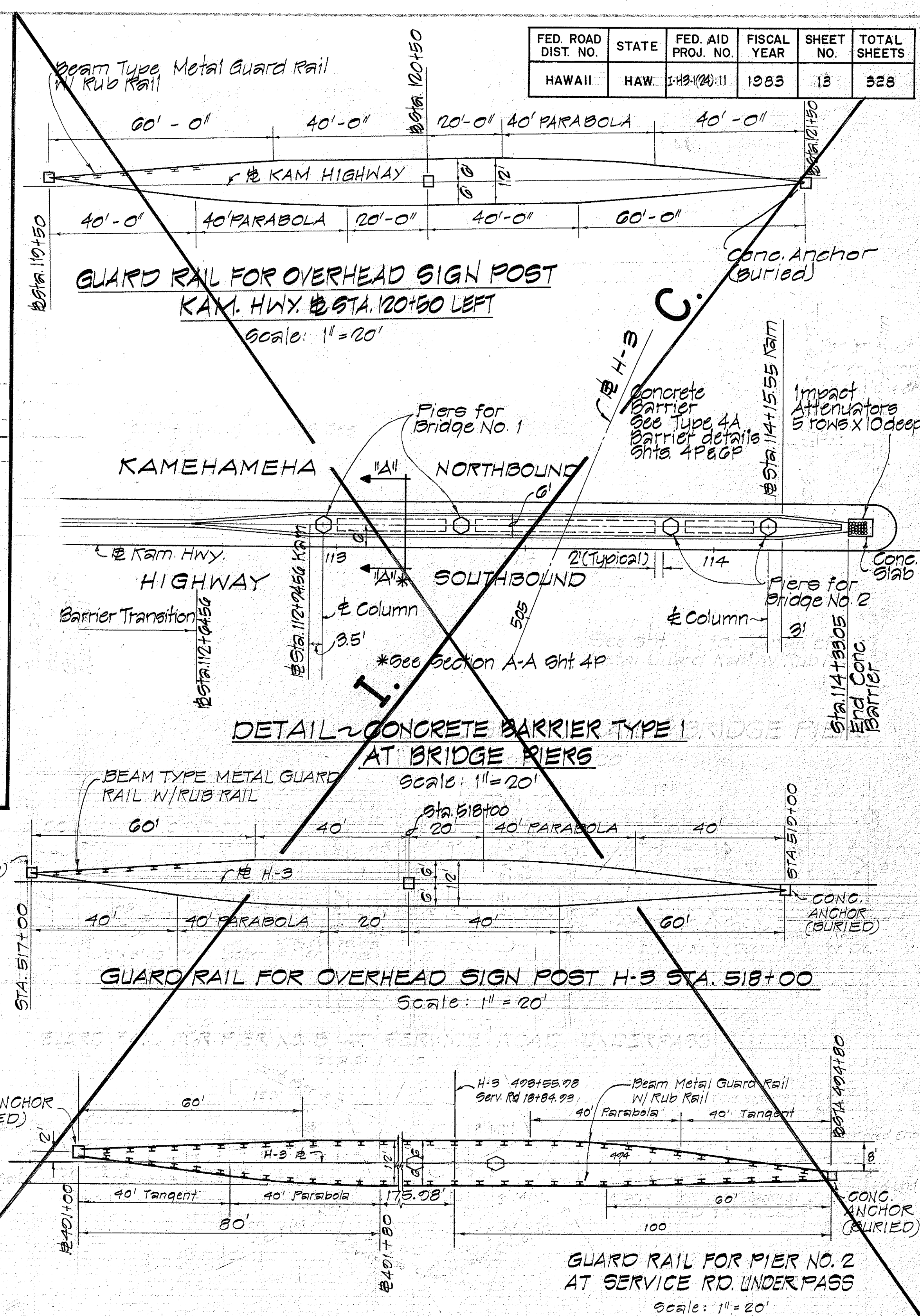
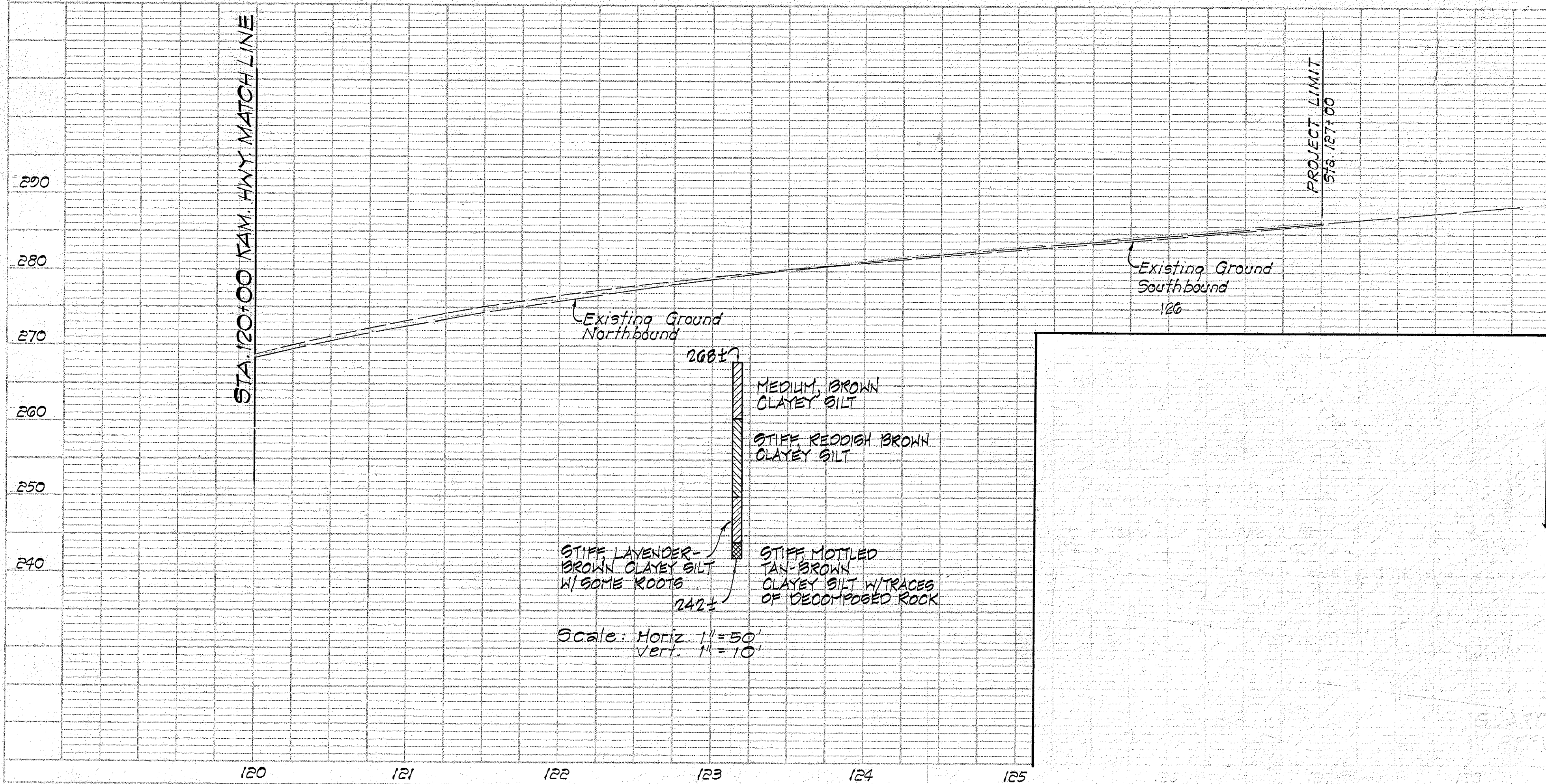
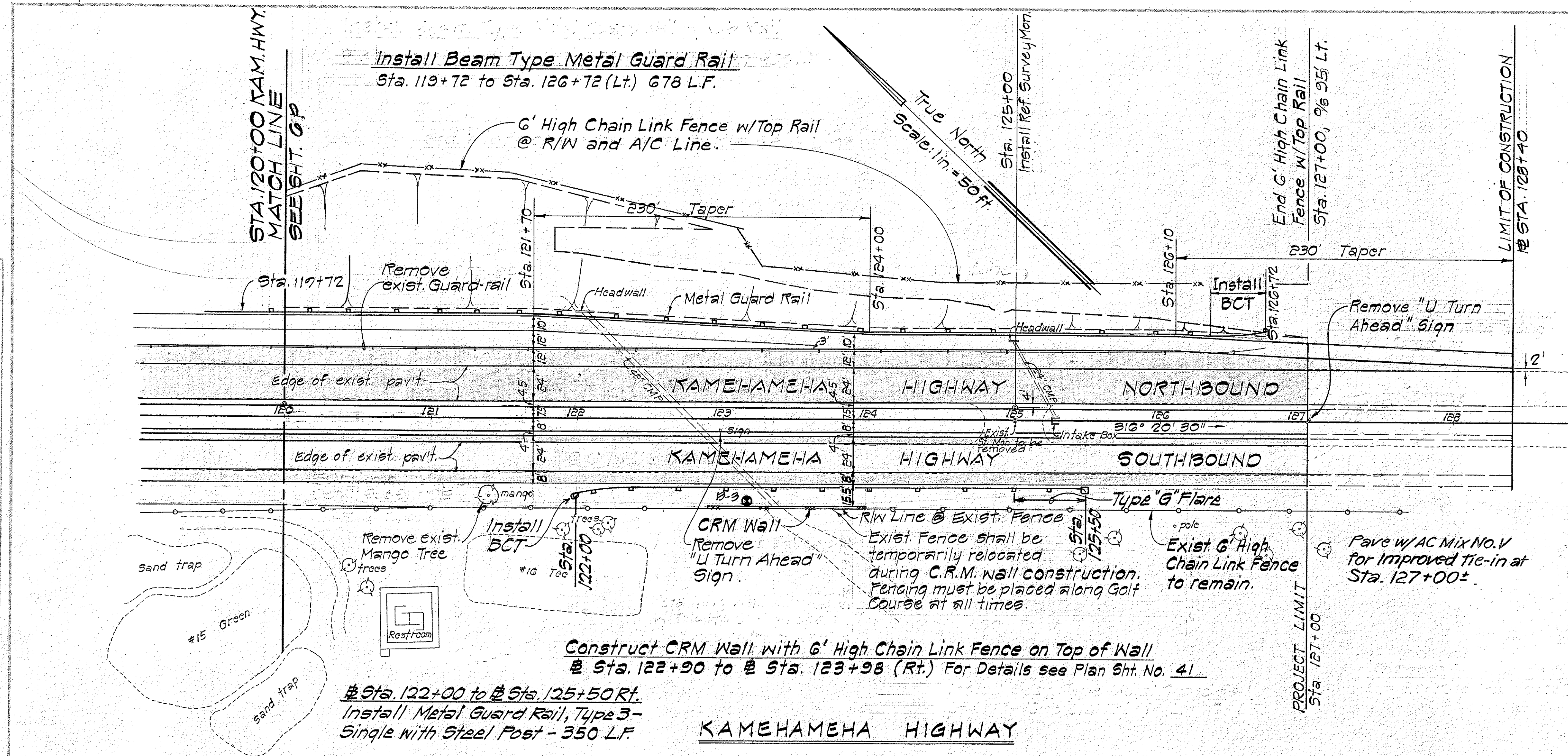
SHEET NO. 53 OF 3 SHEETS

"AS BUILT"

C.O. 10 S-3

DATE	BY	REVISION
12/22/82	W. B. B. STANBARD	Revised std. wire fence to G' chain link fence per Addendum No. 1.

DATE	BY	REVISION
12/22/82	W. B. B. STANBARD	Revised std. wire fence to G' chain link fence per Addendum No. 1.



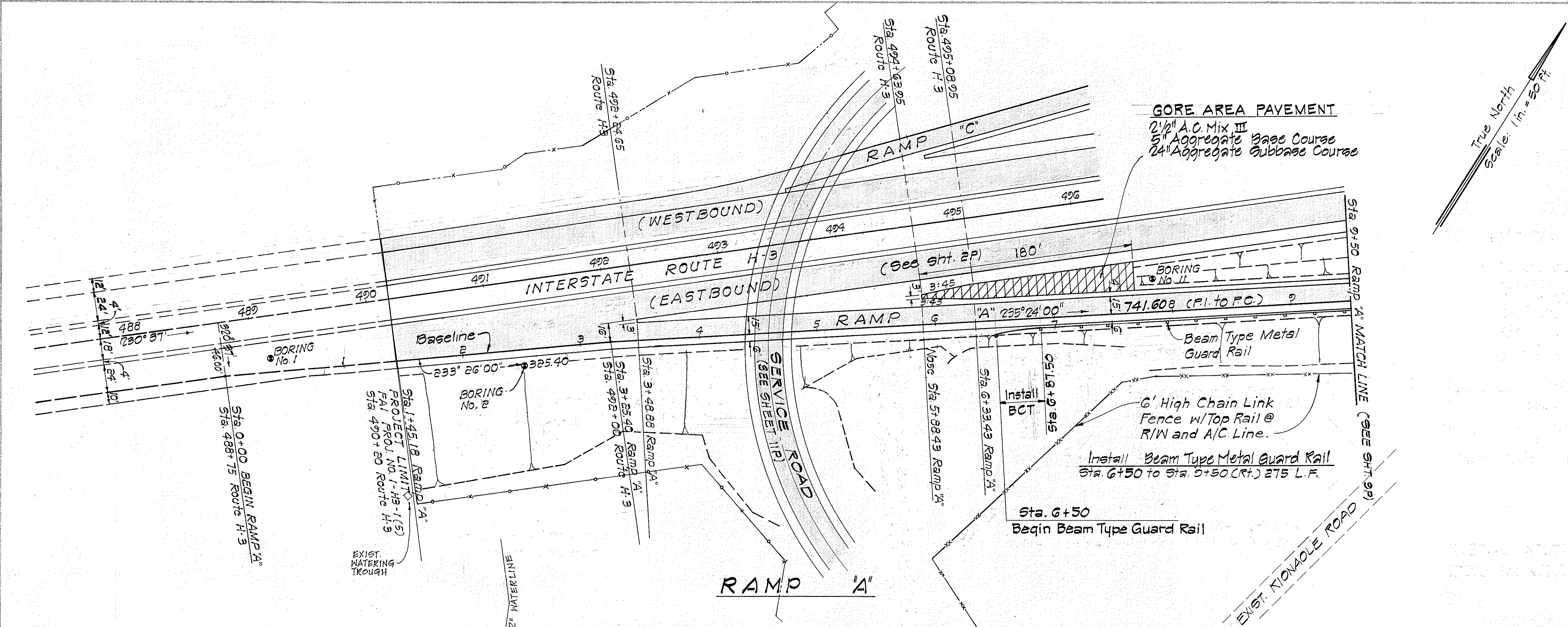
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	143-1(24)-11	1983	13	328

DATE	REVISION
12/22/82	Revised std. wire fence to G' chain link fence per Addendum No. 1.

PLAN & PROFILE
KAMEHAMEHA HIGHWAY

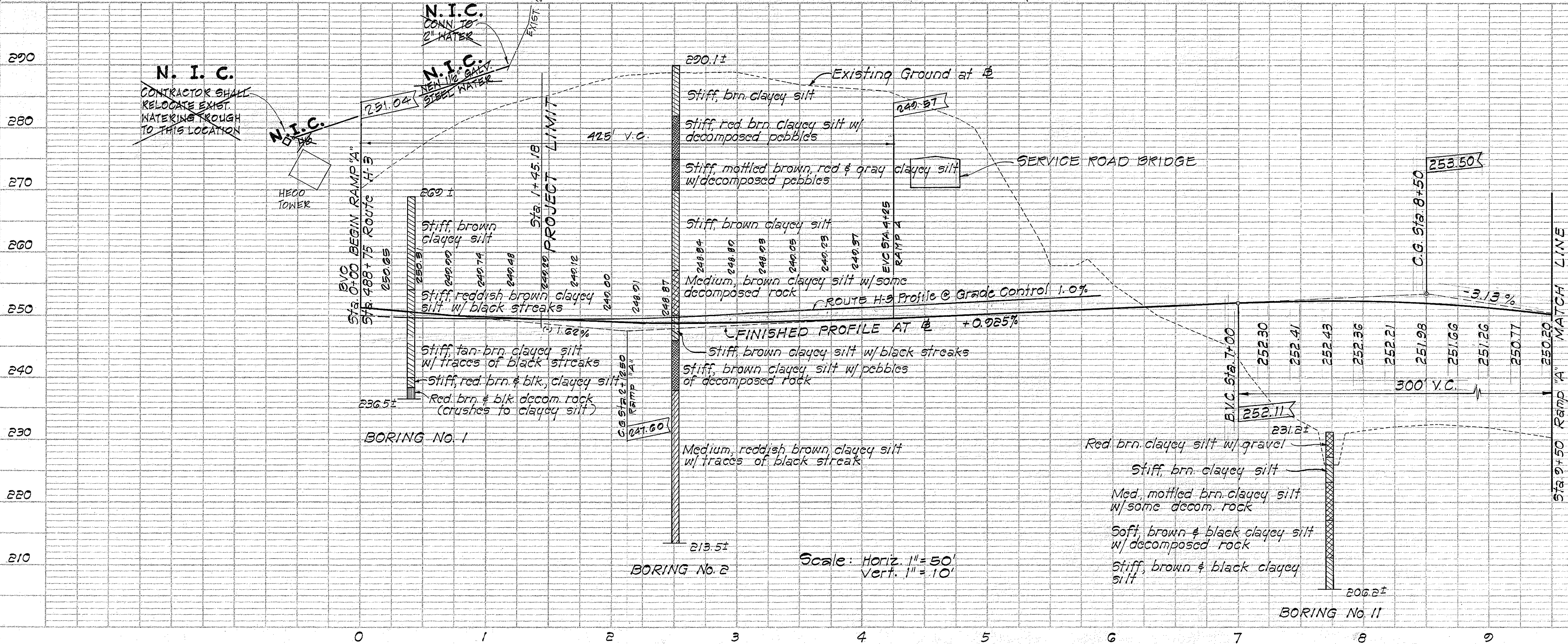
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-10-11	1983	14	328

DATE	BY	REVISION
1/14/83	PLA	1. PLAN
		2. CHECKED
		3. APPROVED
		4. REVISION
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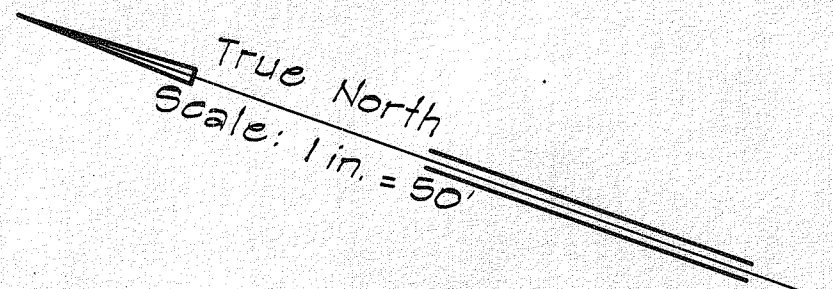
DATE	REVISION
2/1/83	Deleted relocation of watering trough.
12/22/82	Revised st'd. wire fence to 6' chain link fence, per Addendum No. 1.

DATE	BY	REVISION
1/14/83	PLA	1. PROFILE
		2. CHECKED
		3. APPROVED
		4. REVISION
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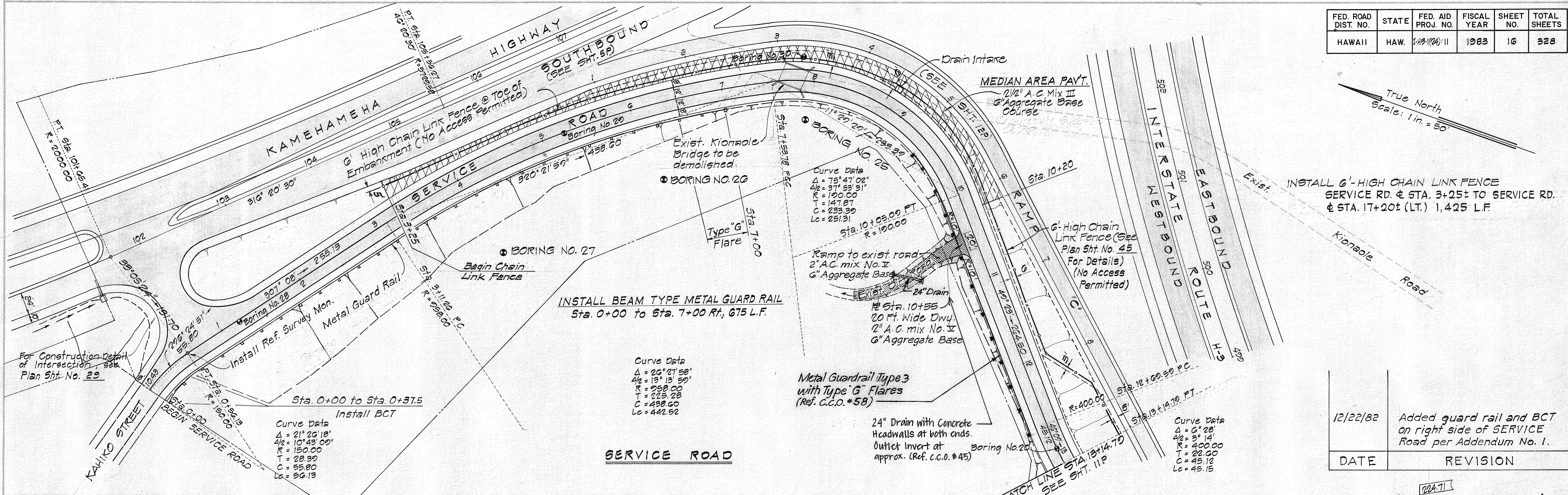


PLAN & PROFILE
RAMP "A"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-43-1(24)-11	1983	16	328

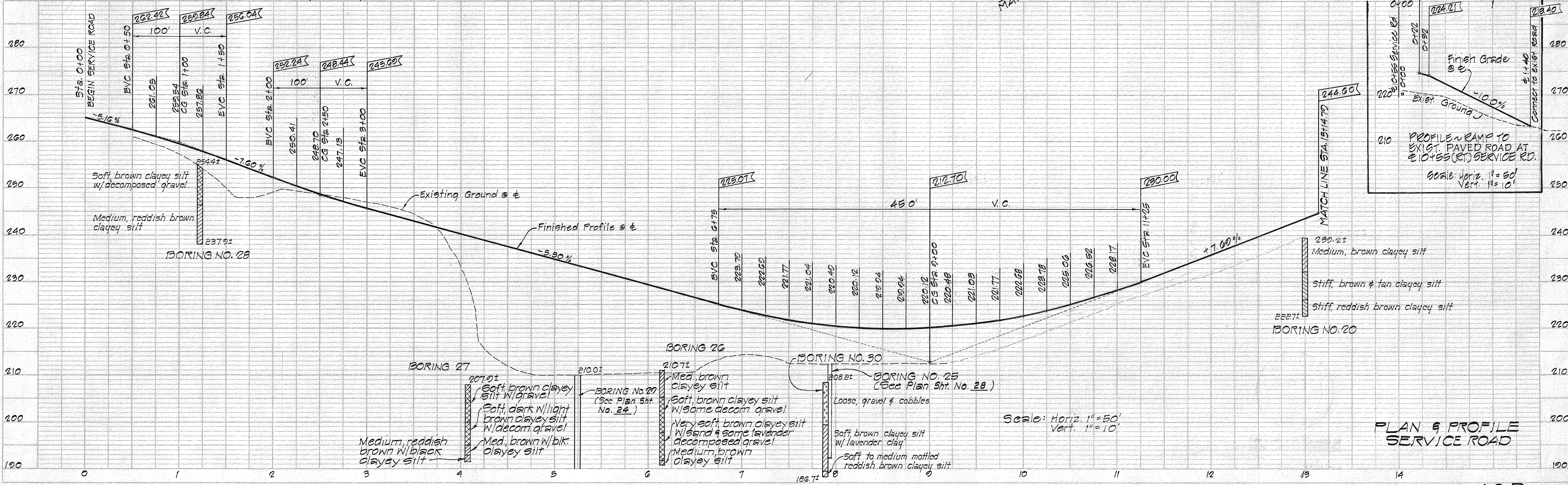


PLAN	DATE	BY	NO.
SURVEYED			
PLOTTED			
NOTE BOOK			
RE. OF WY. CHECKED			



12/22/82	Added guard rail and BCT on right side of SERVICE Road per Addendum No. 1.
DATE	REVISION

PROFILE	DATE	BY	NO.
SURVEYED			
PLOTTED			
NOTE BOOK			
STRUCTURE NOTATION CHECKED			



PLAN & PROFILE SERVICE ROAD

PLAN	SUBMITTED	BY	DATE
NOTE BOOK	FORWARDED		
NO	ALONGHEIM CHECKED		
	RT. OF WAY CHECKED		

DATE	BY	PROFILE
		SURVEYED
		PLOTTED
		GRAPHED
		PLAS WITTED
		STRUCTURE NOTED AS CHGO.
		NOTE BOOK
		NO.

Sta.15+10 to Sta.17+05 (Lt.) 170 L.F.
Sta.20+02 to Sta.22+20 (Lt.) 263 L.F.
Sta.20+02 to Sta.23+25 (Rt.) 273 L.F.
Sta.17+40± (Rt.) to Acc.Rd.to Park Sta.0+25±(Lt.) 75 L.F.
Sta.20+08 to Sta.20+48 (Rt.) 40 L.F.

For Typical Section of
Access Road to Hō'omaluhia
Park see Plan Sht. No. 6

1	$\Delta = 73^{\circ}00'00''$ $\frac{1}{2} = 36^{\circ}30'00''$ $R = 80.00'$ $T = 59.20'$ $C = 25.17'$ $Lc = 101.93'$	2	$\Delta = 24^{\circ}18'19''$ $\frac{1}{2} = 12^{\circ}09'09.5''$ $R = 30.00'$ $T = 6.46'$ $C = 12.63'$ $Lc = 12.73'$
3	$\Delta = 117^{\circ}05'08''$ $\frac{1}{2} = 58^{\circ}32'34''$ $R = 20.00'$ $T = 32.69'$ $C = 34.12'$ $Lc = 40.87'$	4	$\Delta = 38^{\circ}08'27''$ $\frac{1}{2} = 19^{\circ}04'13.5''$ $R = 250.00'$ $T = 86.43'$ $C = 163.36'$ $Lc = 166.42'$

$\Delta = 119^{\circ} 04' 00''$
 $4/2 = 59^{\circ} 32' 00''$
 $R = 300.00$
 $T = 509.98$
 $C = 517.15$
 $LC = 623.43$

Join existing pavement

$\Delta = 70^{\circ} 00' 00''$	$\Delta = 70^{\circ} 00' 00''$
$4/2 = 45^{\circ} 00' 00''$	$4/2 = 45^{\circ} 00' 00''$
$R = 40.00'$	$R = 32.00'$
$T = 40.00'$	$T = 32.00'$
$C = 56.57'$	$C = 45.26'$
$LC = 62.83'$	$LC = 50.27'$

True North
Scale: 1" = 50'

Double Hung Gate (20' wide)

0+00 1+00 2+00
Scale: Horiz. 1"=50'
Vert. 1"=10'

Scale: Horiz. $1'' = 50'$
Vert. $1'' = 10'$

PLAN & PROFILE SERVICE ROAD

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	249-1(24)11	1983	18	328

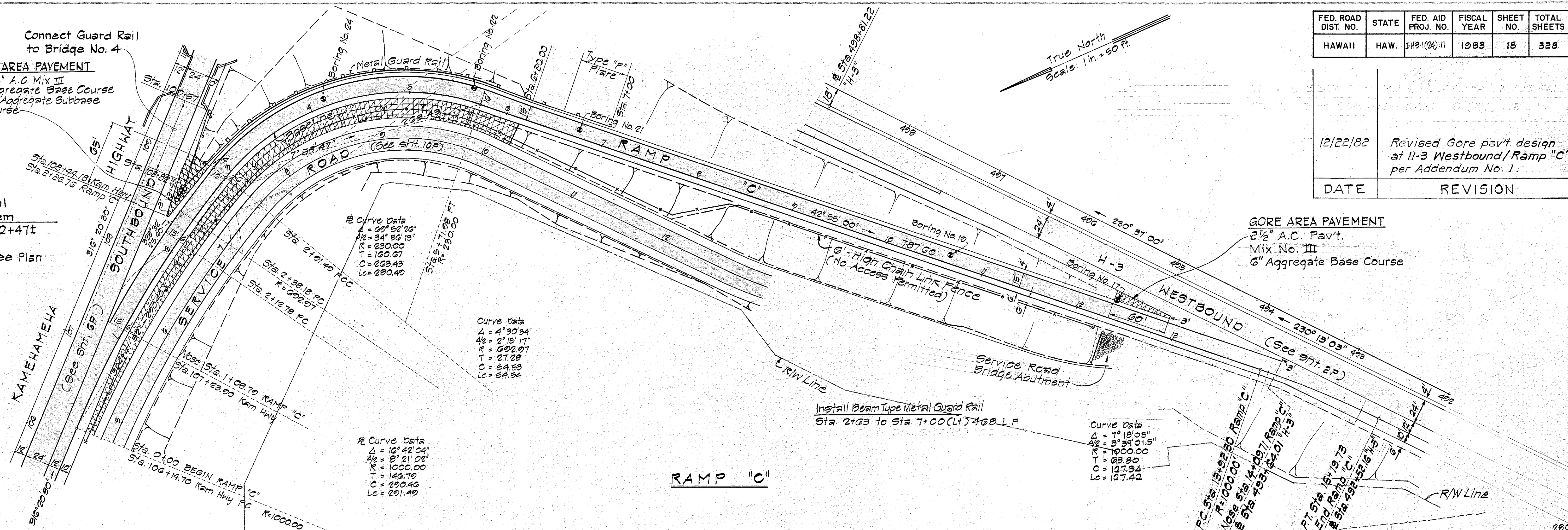
12/22/82	Revised Gore pav't design at H-3 Westbound/Ramp "C" per Addendum No. 1.
DATE	REVISION

Connect Guard Rail to Bridge No. 4

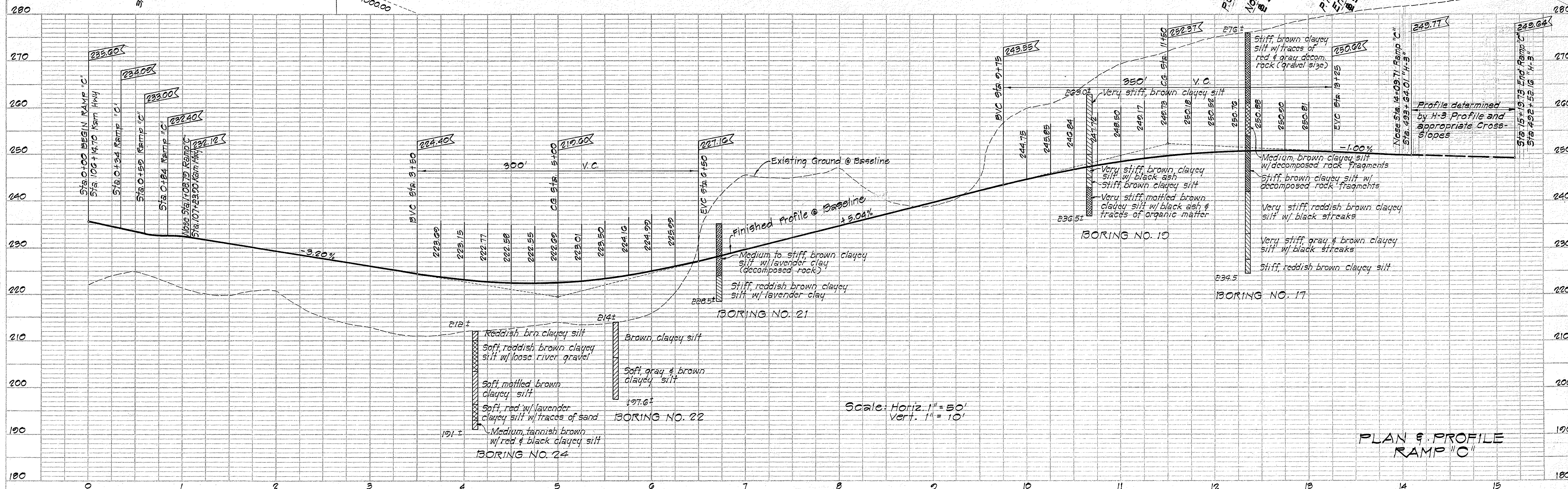
GORE AREA PAVEMENT
 2 1/2" A.C. Mix III
 8 1/2" Aggregate Base Course
 2 1/2" Aggregate Subbase Course

Install Inertial Barrier System
 Ramp "C" Sta. 2+471 to 2+621 Lt.
 For Details see Plan Sht. No. 42

GORE AREA PAVEMENT
 2 1/2" A.C. Pav't.
 Mix No. III
 6" Aggregate Base Course



RAMP "C"



PLAN & PROFILE RAMP "C"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	143(04)11	1983	20	328

CURVE DATA
 (RAMP "E")
 $\Delta = 29^\circ 47' 34"$
 $4a = 14' 53' 47"$
 $R = 268.00$
 $T = 71.29$
 $Ch = 137.79$
 $L = 139.36$

CURVE DATA
 (RAMP "E")
 $\Delta = 10' 38' 28"$
 $4a = 5' 10' 14"$
 $R = 458.16$
 $T = 42.67$
 $Ch = 84.97$
 $L = 85.09$

MEDIAN AREA
 PAVEMENT
 2 1/2" A.C. Mix III
 6" Aggregate Base Course

BORING No. 53

Sta. 11+82.69 to Sta. 15+15
 Install Metal Guardrail
 Type 3 Single w/Steel Posts
 (Ref. C.C.O. #69)

CURVE DATA
 (RAMP "D")
 $\Delta = 30' 54' 12"$
 $4a = 15' 27' 06"$
 $R = 500.00$
 $T = 138.21$
 $Ch = 266.43$
 $L = 269.68$

RAMP "D" & "E"

Pipe Sta. 5+55
 Connect to
 Concrete channel
 Inv. = 209.80

Sta. 14+80+18+30
 Install Metal Guardrail
 Type 3 Single w/Steel Posts
 (Ref. C.C.O. #69)

CURVE DATA
 (RAMP "D")
 $\Delta = 71' 48' 40"$
 $4a = 35' 54' 20"$
 $R = 230.00$
 $T = 166.53$
 $Ch = 269.77$
 $L = 288.27$

GORE AREA PAVEMENT

2 1/2" A.C. Mix III
 8 1/2" Aggregate Base Course
 24" Aggregate Subbase Course

Type G1614 GDI #D-1
 @ Sta. 16+75 Ramp E
 Inv. 225.10

GORE AREA PAVEMENT
 2 1/2" A.C. Pav't. Mix No. III
 6" Aggregate Base Course

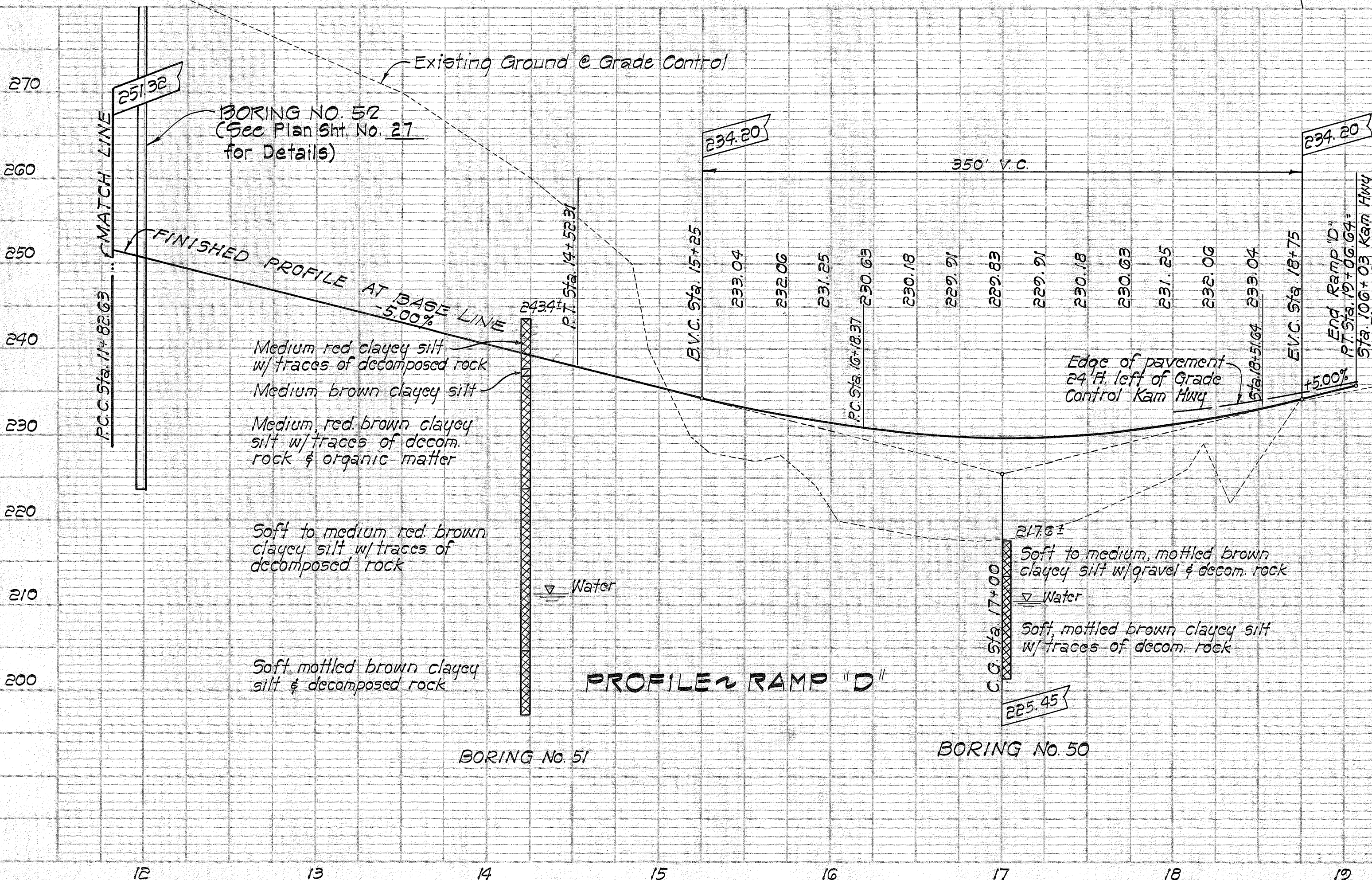
@ STA. 13+50 Lt. to @ STA. 17+35 Lt. RAMP E
 CONSTRUCT:
 Gutter, Type 2 (G1614)
 (See sht. 65-1 for

DRAIN LINE "D"
 @ STA. 16+75 Lt. RAMP E
 CONSTRUCT:
 Type G1614 GDI #D-1
 INSTALL:
 24" RCP, C.I. III, 24" ACP, C.I. III or
 24" CMP, Sht. "t" = 0.070
 (See sht. C.O. 40 S-1 for Profile

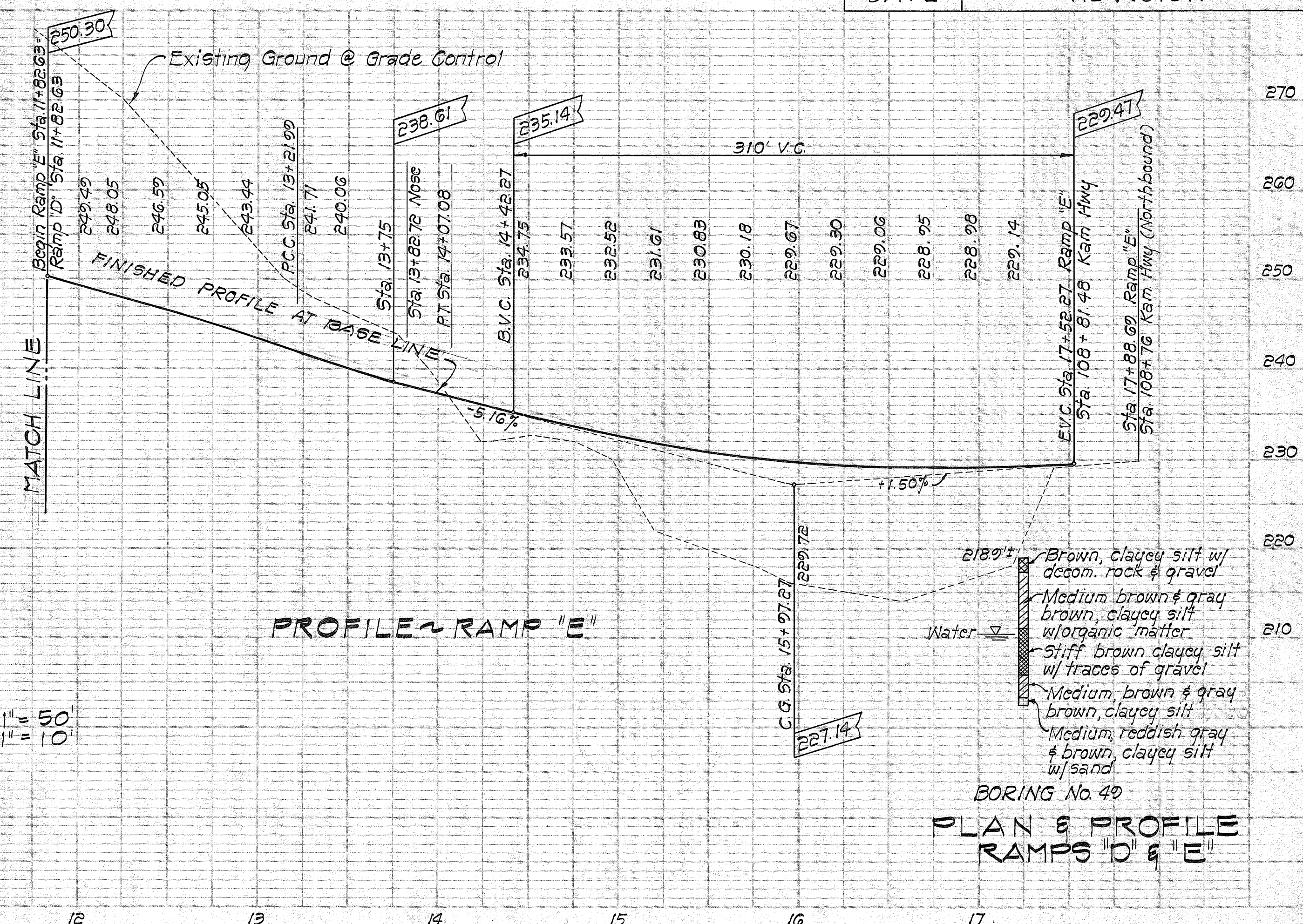
RAMP "D" Sta. 18+11.69 to 19+06.64 (Rt.)
 6' to 0' Shoulder Transition, Ramp "D"
 Gutter Transition, Type 2 (G1614) Ramp "D"
 to Type 2 (G1216) Kam. Hwy.

DATE	REVISION
10/30/86	Added Drainage System for Ramp E
7/26/83	Revised Ramp "E" width from 24' to 16'
12/22/82	Revised Gore pav't. design at Kam Hwy. Northbound/Ramp "D" per Addendum No. 1.

0 50 100
 SCALE IN FEET

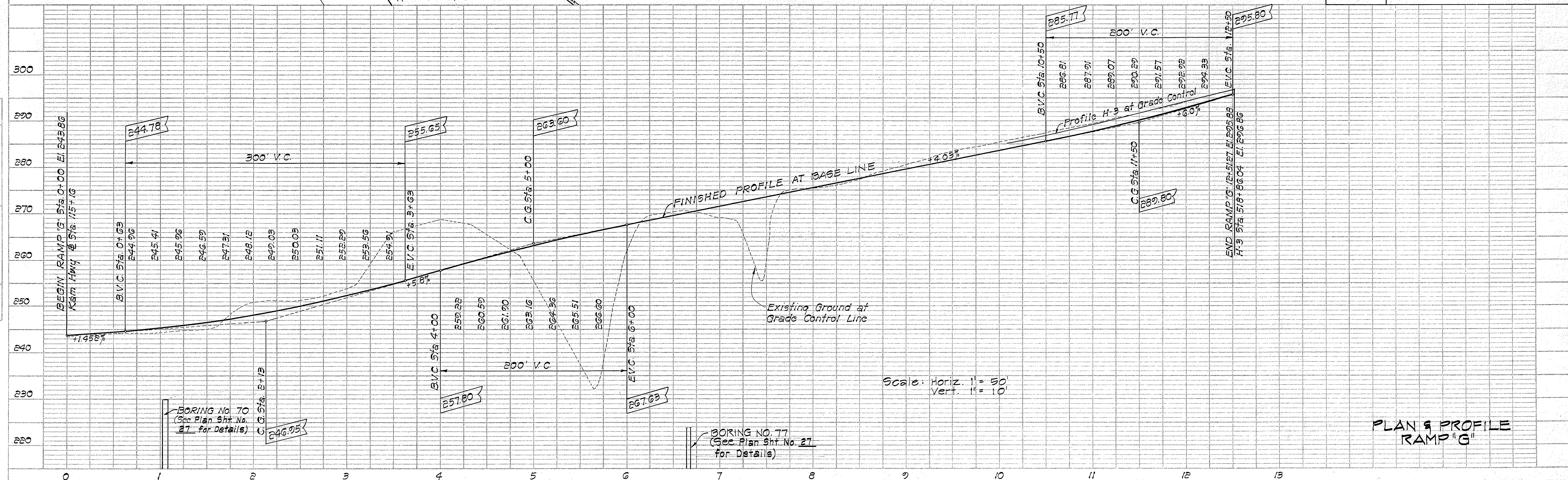
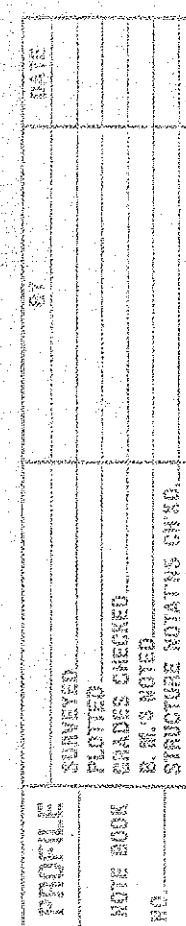
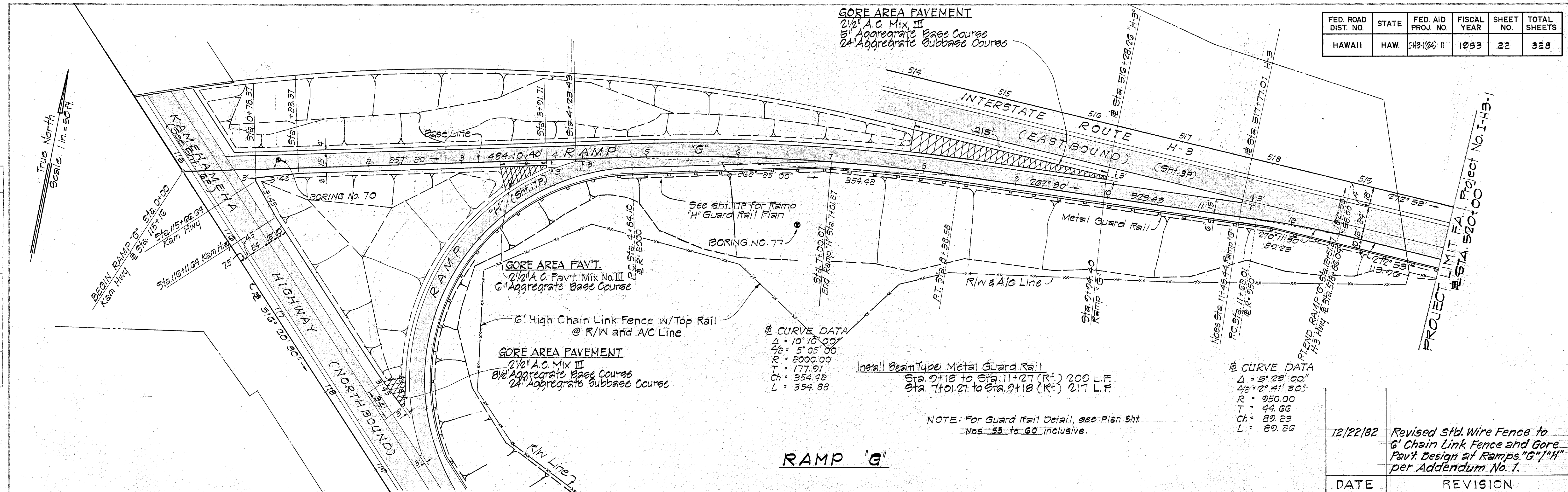
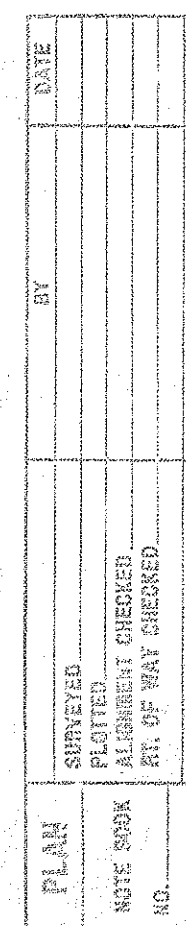


Scale: Horiz. 1" = 50'
 Vert. 1" = 10'



PLAN & PROFILE
 RAMPS "D" & "E"

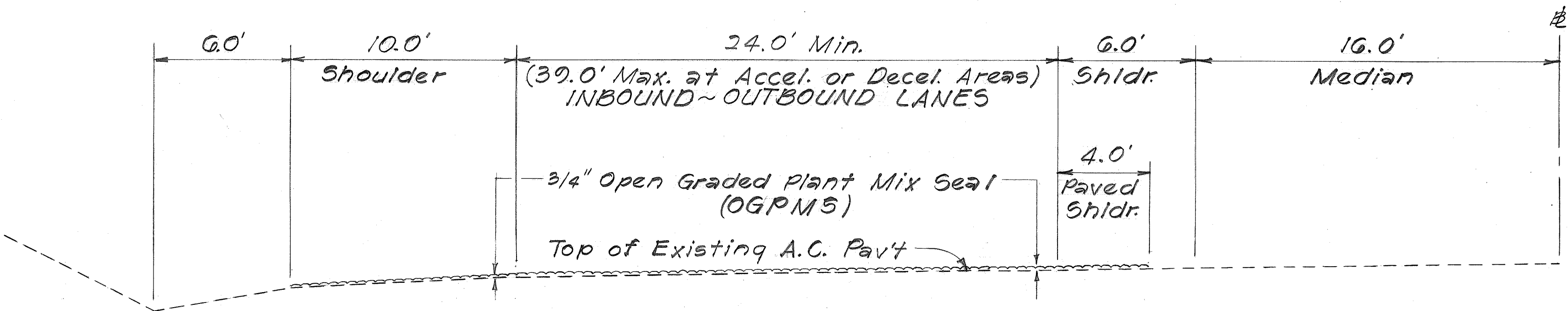
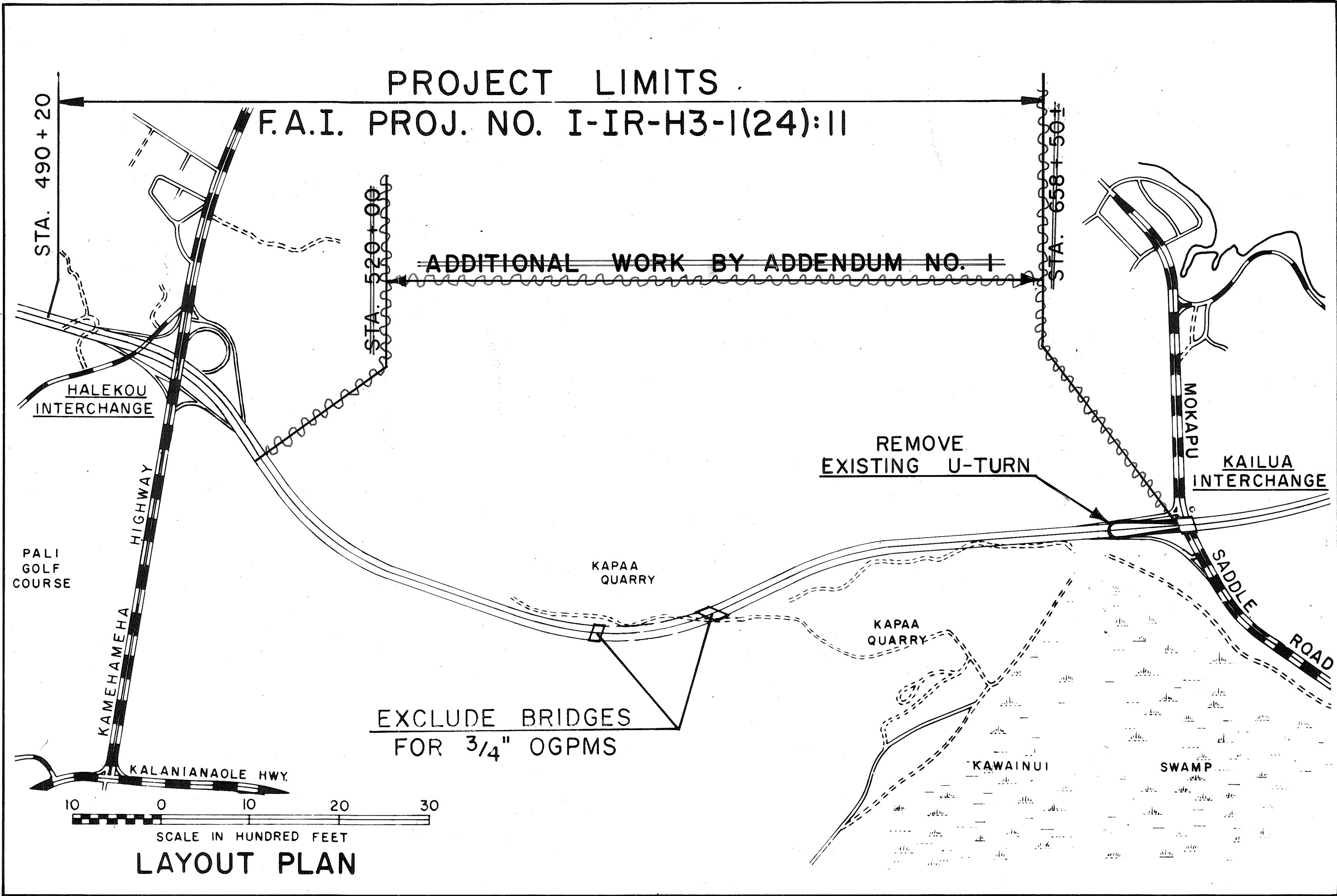
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	149-1(24)	1983	22	328



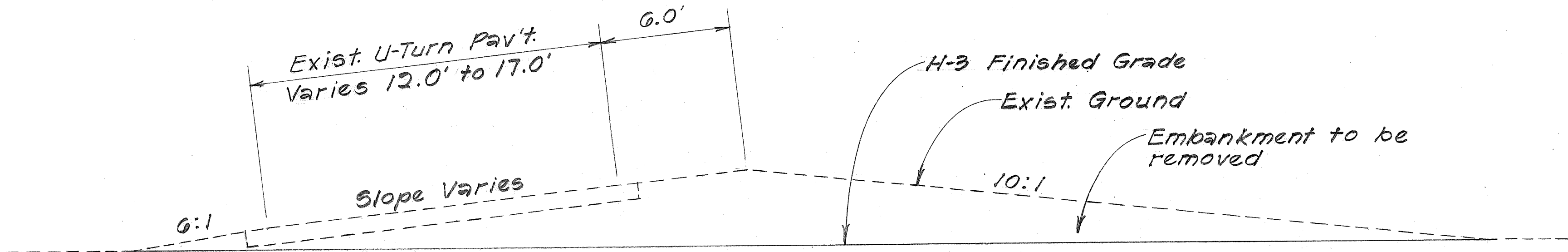
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-IR-H3-1(24):11	1983	22R S-1	328

SCOPE OF ADDITIONAL WORK

1. Removing of existing U-Turn near Kailua Interchange. Cold plane existing U-Turn pavement where necessary.
2. Placing of 3/4 inch Open-Graded Plant Mix Seal (OGPMS) on the existing Asphalt Concrete Pavement including shoulders from Sta. 520+00 (Eastbound) and Sta. 526+00 (Westbound) to Sta. 658+50±.
3. Other improvements: Paving, pavement markings, signing, striping, highway lighting standards, clearing and grubbing, and grass planting.



H-3 TYPICAL HALF SECTION~INBOUND/OUTBOUND LANES
STA. 520+00 TO # STA. 658+50±
Scale: 1/4"=1'-0"



TYPICAL SECTION
EXISTING U-TURN AT KAILUA INTERCHANGE
Scale: 1/4"=1'-0"

12/22/82	Weather Course and Other Miscellaneous Work per Addendum No. 1
DATE	REVISION

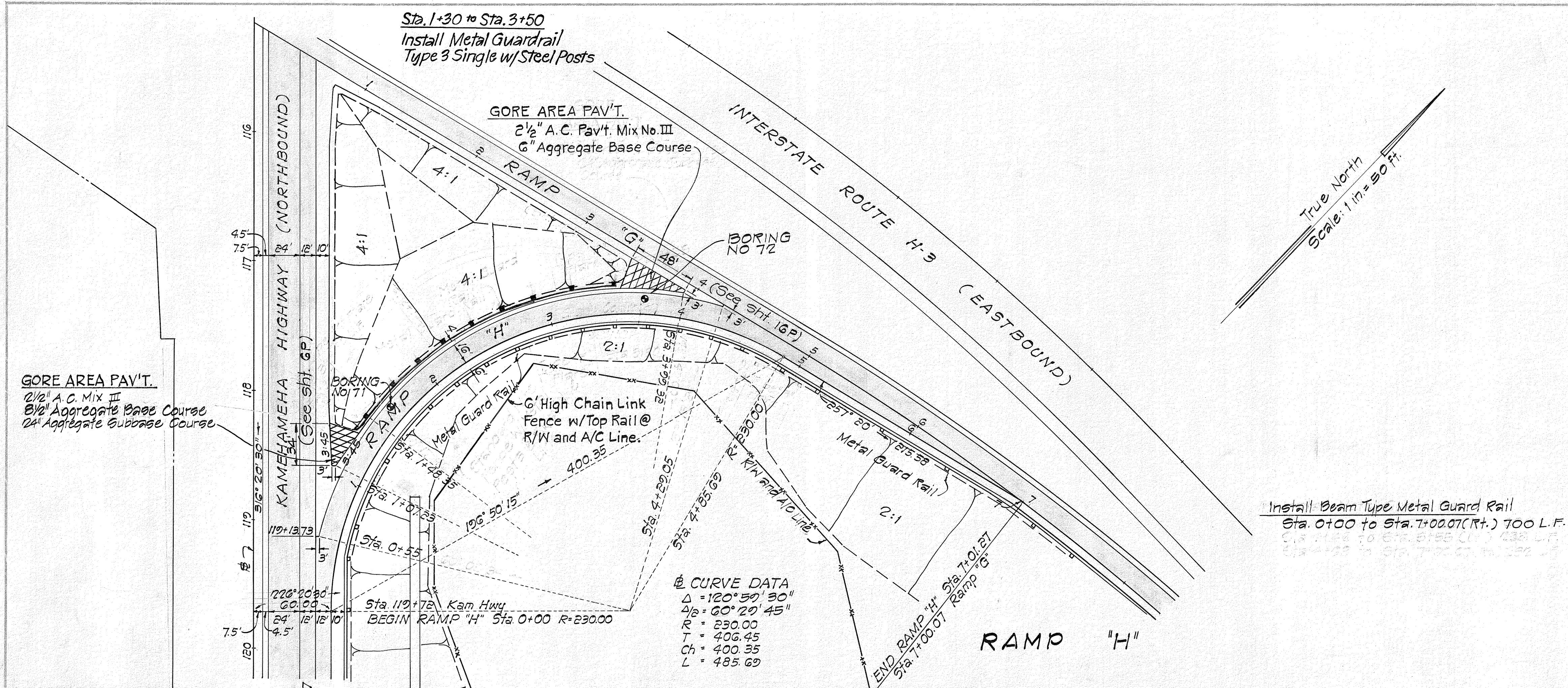
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
ADDITIONAL WORK BY ADDENDUM NO. 1 # STA. 520+00 TO # STA. 658+50±	
INTERSTATE ROUTE H-3 HALEKOU INTERCHANGE F.A.I. PROJ. No. I-IR-H3-1(24):11	
Scale: As Noted Date: Dec., 1982	
SHEET NO.	OF SHEETS

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
QUANTITIES BY	
NO.	

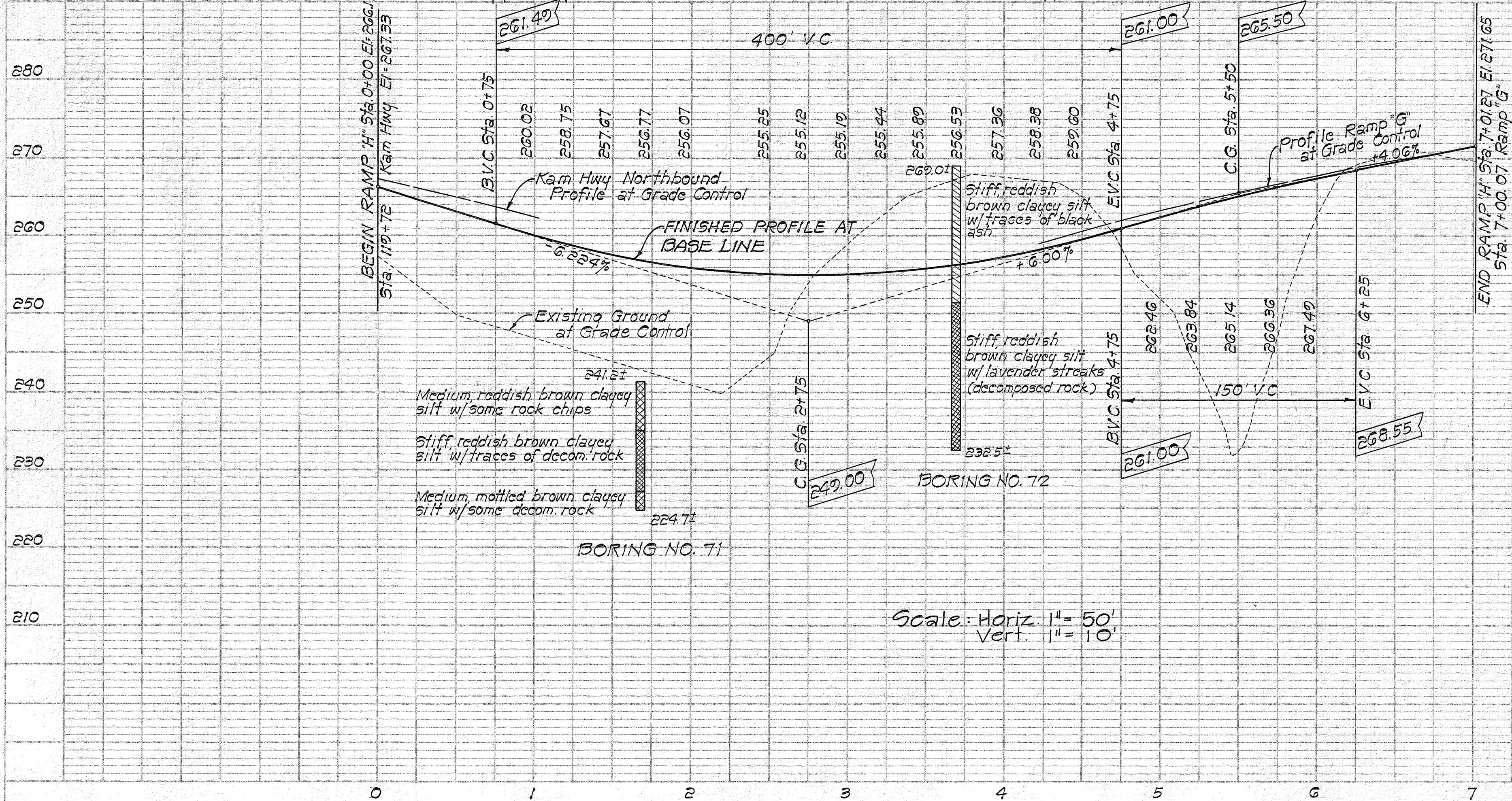
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-43-1(24)11	1983	23	328

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	BY	

PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	BY	



12/22/82	Revised Std. Wire Fence to 6' Chain Link Fence and Gore Pav't. Design at Ramp "G"/"H" per Addendum No. 1.
DATE	REVISION



PLAN & PROFILE
RAMP "H"