

CURB AND CURB & GUTTER QUANTITIES

LOCATION			LINEAL FEET									
ROAD	STA. TO STA.	SIDE	Item No. 70.01 Type "A" Curb	Item No. 70.55 Type "AG" Curb & Gutter	Item No. 70.58 Type "AGM" Curb & Gutter	Item No. 70.04 Type "D" Curb	Item No. 70.70 Type "DG" Curb & Gutter	Item No. 74.01 Reconstructed Lava Rock Curb	Item No. 70.28 Type "A" Gutter			
Frontage Road "J"	± 202+25 to 203+50	Right	129									
Frontage Road "J"	"J" 41+93 to Pensacola	Right		411								
Pensacola		Left		114								
Pensacola		Right		116								
Westbound Lanes	± 202+25 to 202+85	Left					60					
± Median	± 199+00 to 204+19	Left			519							
± Median	± 199+00 to 204+19	Right			519							
Eastbound Lanes	± 202+25 to 202+95	Left					70					
Frontage Road "J"	Pensacola to Piikoi	Right		661								
Piikoi	± 3+30 to 4+66	Left		139								
Frontage Road "J"	Frontage Rd. "J" to Piikoi	Left					60					
Frontage Road "J"	Piikoi to Liholiho	Left					343	343				
Ramp "F"	Piikoi to Ramp "F"	Right					160					
Ramp "F"	Piikoi to Ramp "F"	Left	136									
Piikoi Island	± 215+00			138								
Piikoi Nose	± 215+20	Left	87									
Frontage Road "J"	"J" 53+65 to 57+84	Right		422								
Ramp "F"	"F" 15+83 to 22+00	Left		617								
Ramp "F"	"F" 16+25 to ± 227+25	Right				1100						
Eastbound Lanes	± 221+30 to 222+00	Right					70					
Ramp "F"	Nose "F" 22+00	Left	4									
Liholiho	Island		58									
Frontage Road "J"	Liholiho to Kewalo	Left					334	334				
Kewalo	Island		123									
Frontage Road "J"	Kewalo to Keeaumoku	Left					679	679				
Frontage Road "J"	"J" 57+84 to 63+30	Right	546									
Westbound Lanes	± 219+40 to 230+00	Right			1060							
Eastbound Lanes	± 219+40 to 220+25	Left			85							
Eastbound Lanes	± 220+25 to 227+50	Left		725								
Eastbound Lanes	± 227+50 to 234+93	Left			743							
Westbound Lanes	± 224+50 to 224+98	Left					48					
Frontage Road "J"	"J" 63+30 to 66+38	Right	380									
Ramp "G"	± 225+00 to 229+00	Left					400					
Westbound Lanes	± 228+98 to 229+58	Left							60			
Eastbound Lanes	± 227+25 to 228+35	Right					110					
Eastbound Lanes	± 228+35 to 228+95	Right							60			
Westbound Lanes	± 229+60 to 231+50	Left					190					
Eastbound Lanes	± 228+95 to 234+70	Right					574					
Makiki St.	End of Makiki St.	Rt. of ±					88					
Westbound Lanes	± 230+00 to 234+00	Right		400								
Westbound Lanes	± 231+54 to 234+50	Left				296						
Keeaumoku St.	± 228+00	Right					80					

METAL GUARD RAIL QUANTITIES

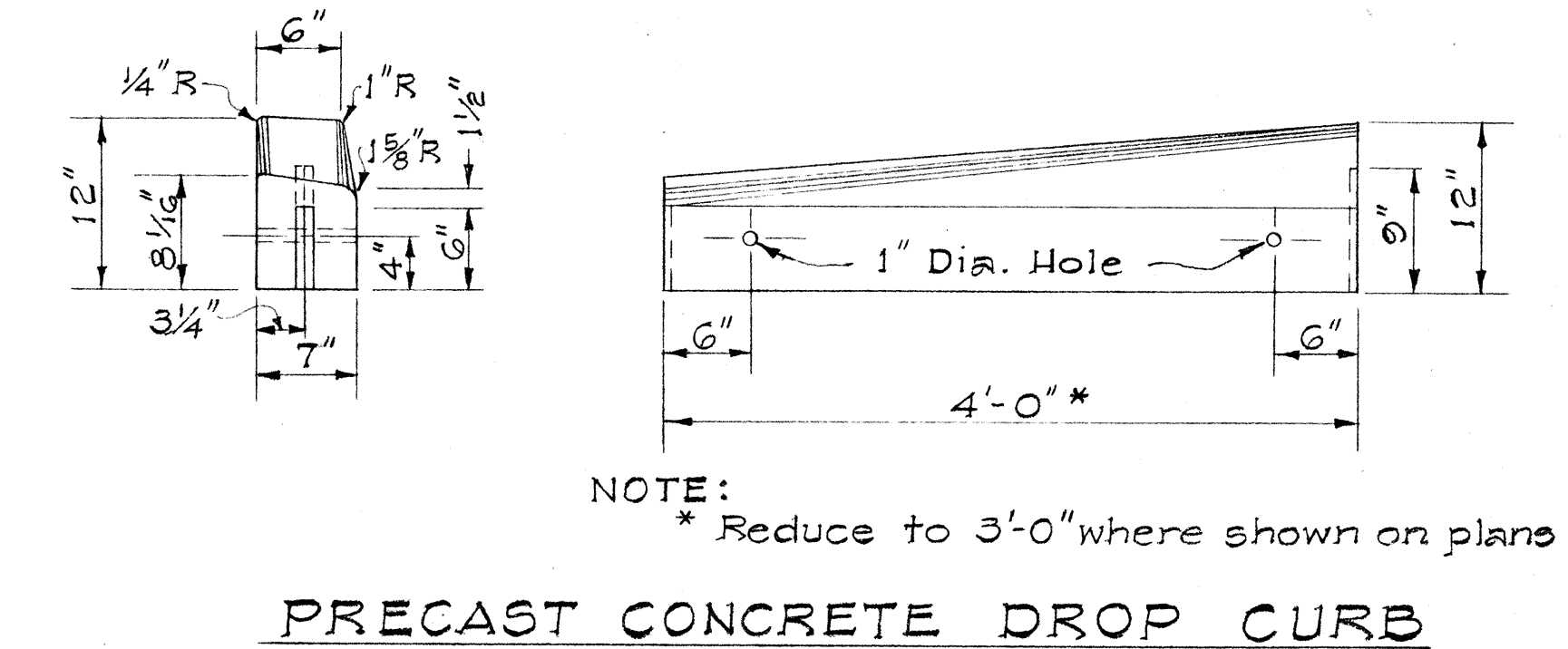
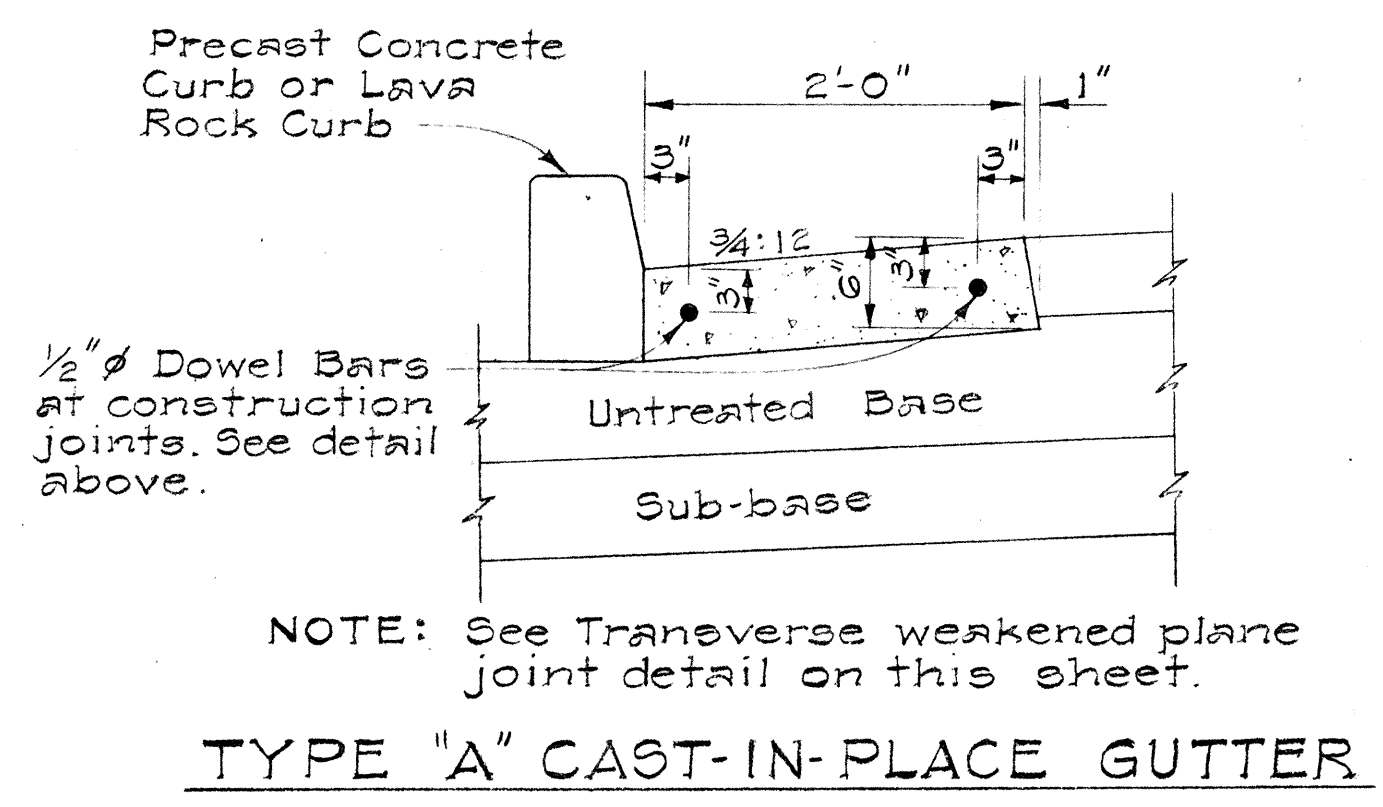
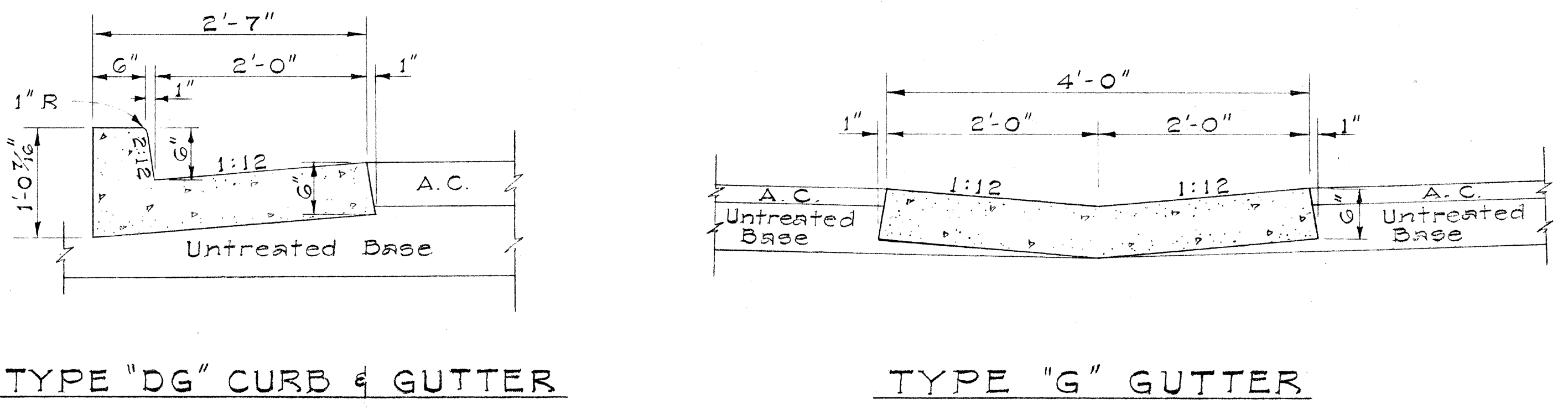
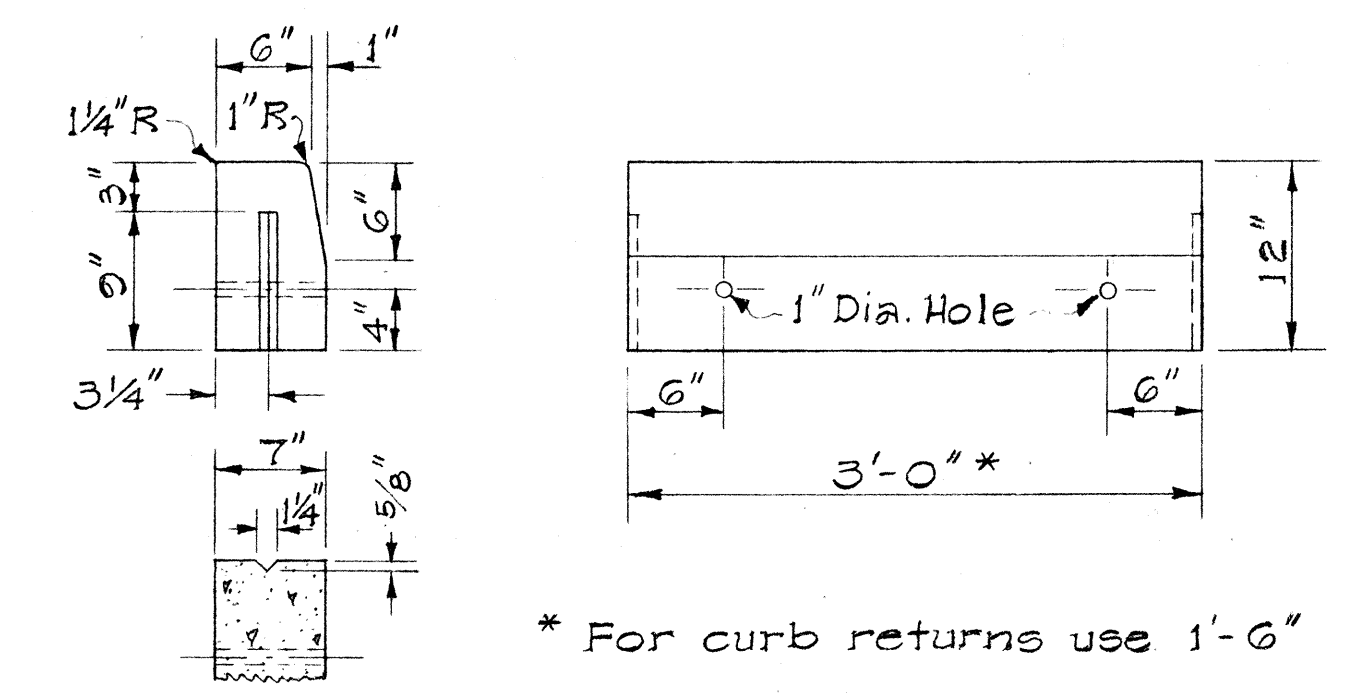
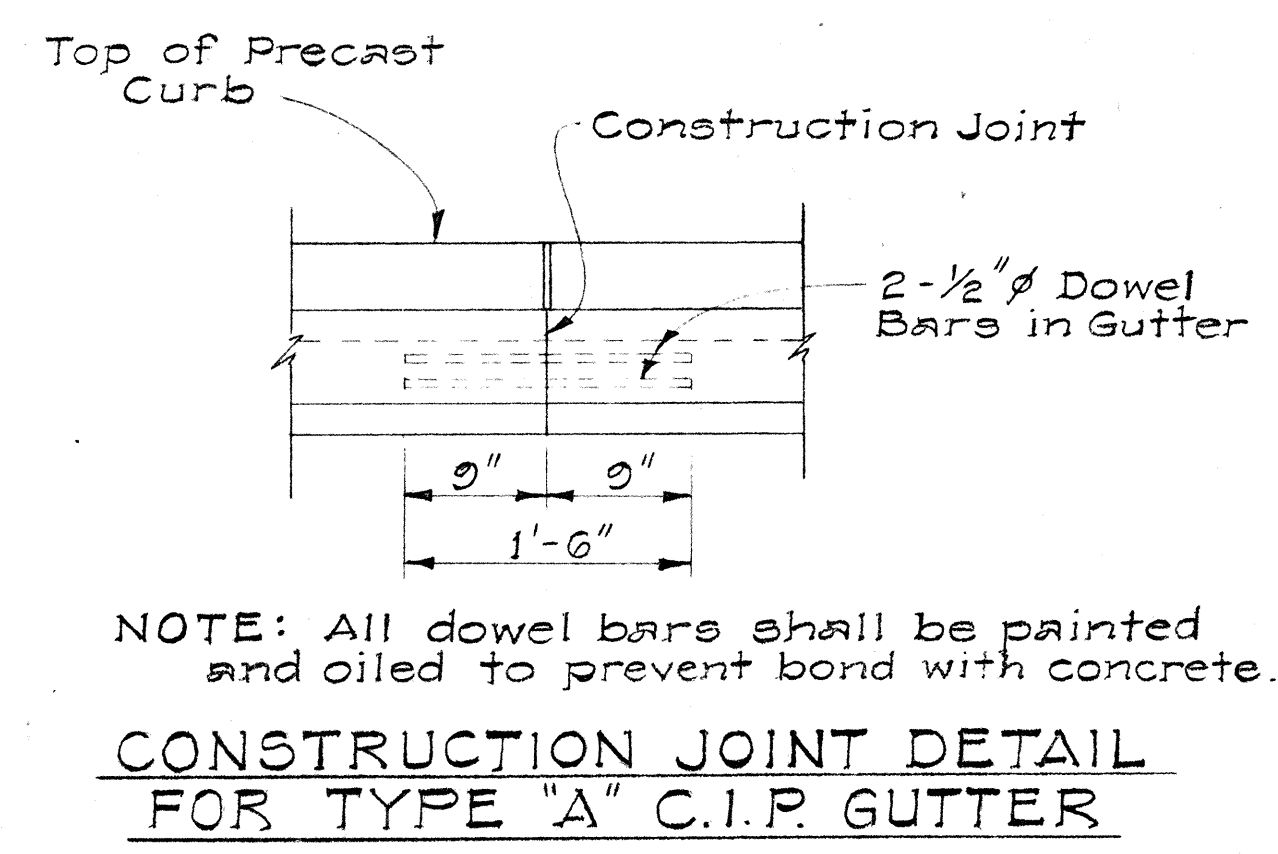
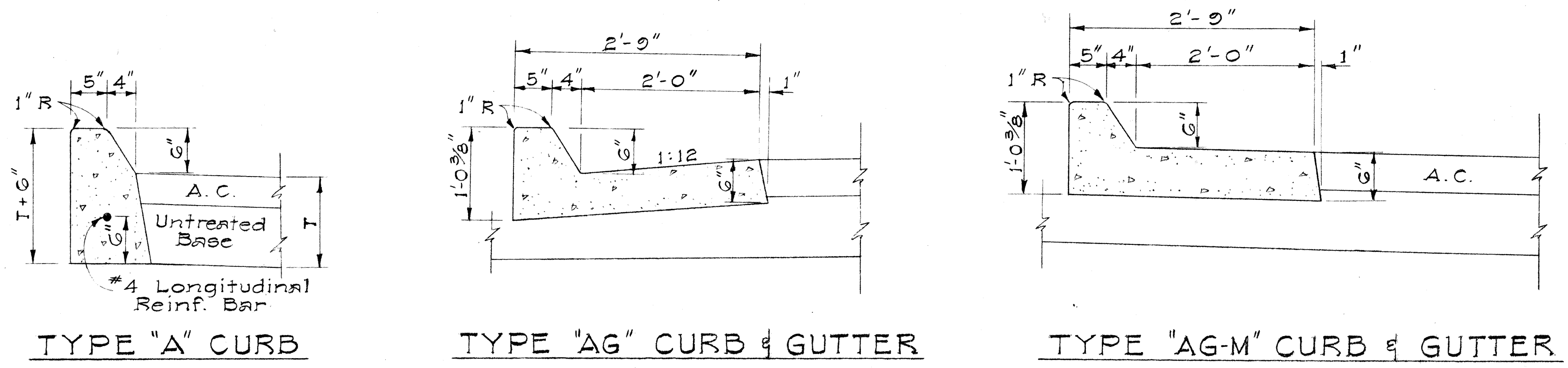
LOCATION			ESTIMATED LENGTH			
ROAD	STA. TO STA.	SIDE	80.02 I or 80.05 II Single (Lin. Ft.)	80.12 I or 80.15 II Double (Lin. Ft.)	46.10 I Type "A" Concrete (C.Y.)	46.10 I Type "B" Concrete (C.Y.)
Eastbound Lanes	± 202+25 to 202+95	Right	70			
Freeway Median	± 198+75 to 203+50	Median		475		
Freeway Median	± 203+50 to 204+20	Lt. & Rt.	140			
Freeway Median	± 219+40 to 220+10	Lt. & Rt.	140			
Freeway Median	± 220+10 to 228+60	Median		850		
Frontage Road "J"	"J" 62+56 to 63+06	Right	75			
Frontage Road "J"	"J" 65+85 to 66+81	Right	125			
Westbound Lanes	± 228+49 to 228+99	Left	50			12
Westbound Lanes	± 228+98 to 229+59	Left				12
Westbound Lanes	± 229+59 to 230+59	Left	100			
Freeway Median	± 228+60 to 229+36	Median			28	
Eastbound Lanes	± 227+50 to 228+35	Right	85			
Eastbound Lanes	± 228+35 to 228+96	Right				12
Eastbound Lanes	± 228+96 to 229+71	Right	75			
Freeway Median	± 229+35 to 234+93	Median		560		
Ramp "F"	"F" 18+00 to 21+00	Left	300			

CHAIN LINK FENCE QUANTITIES

LOCATION			Item No. 88.16 6-Ft. Chain Link Fence on Wall (LIN. FT.)	Item No. 88.06 6-Ft. Chain Link Fence in Conc. Footings (LIN. FT.)	Item No. 88.14 8-Ft. Chain Link Fence on Wall (LIN. FT.)	Item No. 89.11 Reconstructed 4-Ft. Chain Link Fence (LIN. FT.)	Item No. 89.10 Reconstruct 6-Ft. Chain Link Fence (LIN. FT.)
ROAD	STA. TO STA.	SIDE					
Eastbound Lanes	± 202+94	Right	25				
Eastbound Lanes	± 202+94 to 206+47	Right		363			
Ramp "G"	± 225+51 to 228+50	Left			300		
Eastbound Lanes	± 225+91 to 227+65	Right		175			
Eastbound Lanes	± 233+36 to 234+77	Right		145			
Westbound Lanes	± 228+50 to 233+47	Left					497
Westbound Lanes	± 233+47 to 234+17	Left		70			
Westbound Lanes	± 234+17 to 235+22	Left					93
Eastbound Lanes	± 227+65 to 233+35	Right					570
Median	± 230+00 to 234+93	Median				493	
Ramp "F"	Piikoi 4+64 to "F" 15+88	Right		115			

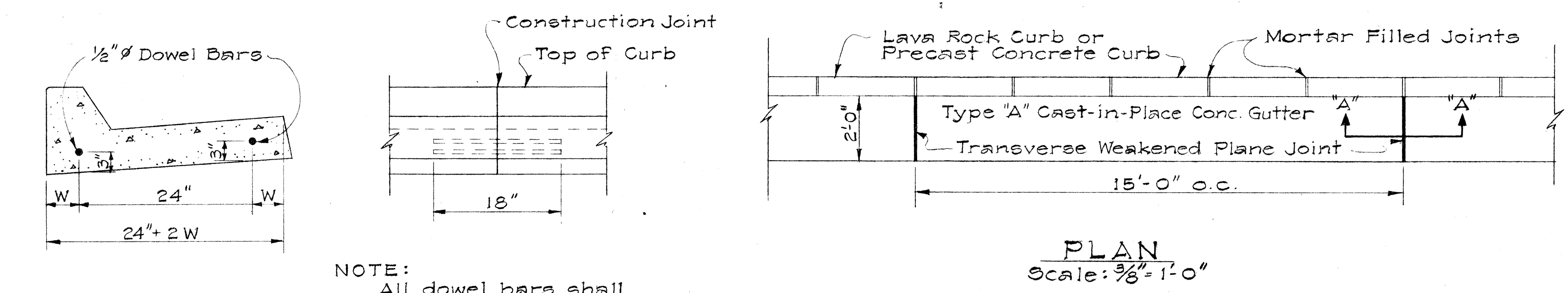
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
ESTIMATED QUANTITIES
CURB AND CURB & GUTTER,
METAL GUARD RAIL, AND
CHAIN LINK FENCE
INTERSTATE ROUTE H-1
(LUNALILO FREEWAY)
Victoria St. to Keeaumoku St.
F.A.I. Proj. No. I-HI-1(31), Unit 2
Date: April, 1967
SHEET No. 1 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HI-1(31), Unit 2	1967	20	217



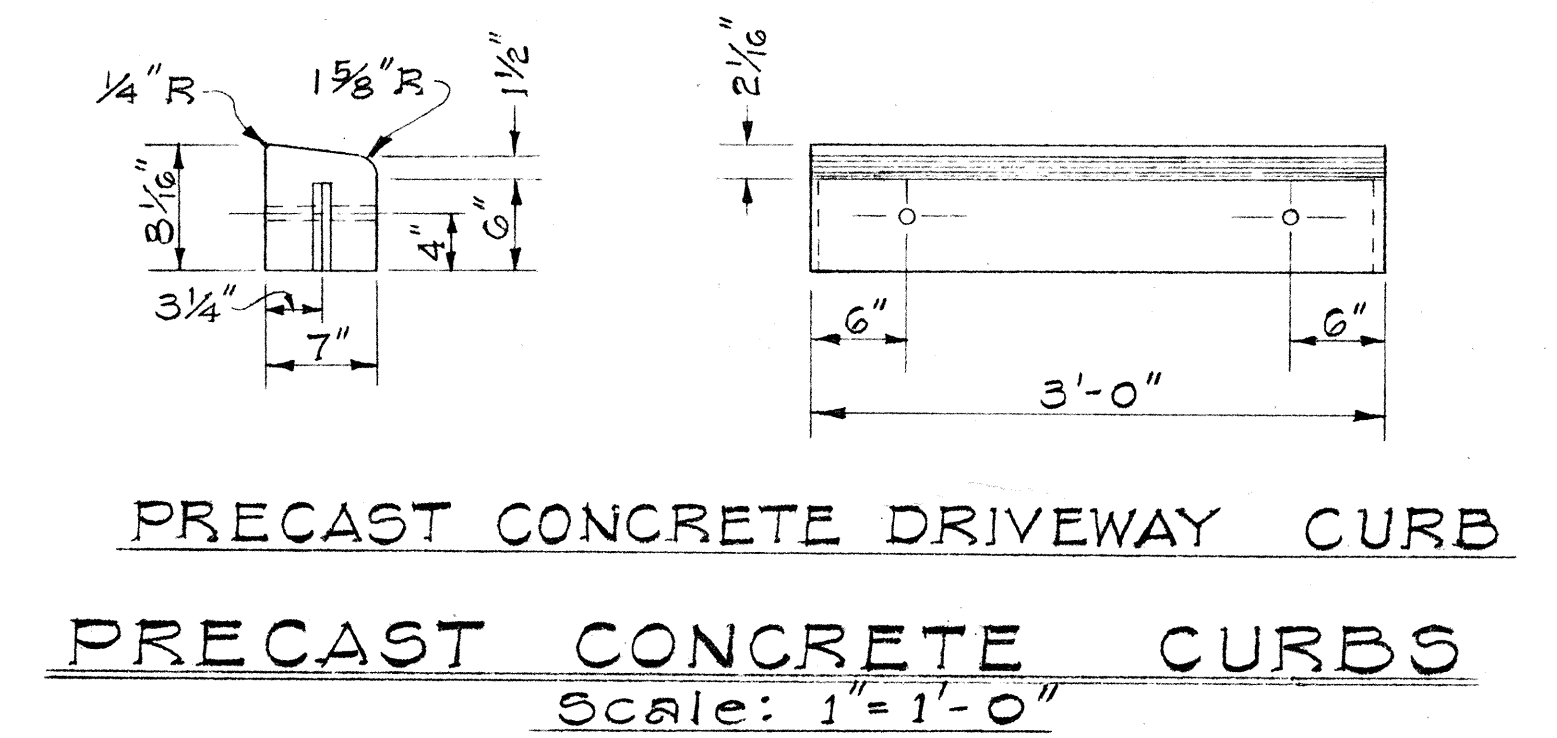
DETAIL OF CAST-IN-PLACE CURBS, GUTTERS AND CURBS & GUTTERS

Scale: 1" = 1'-0"



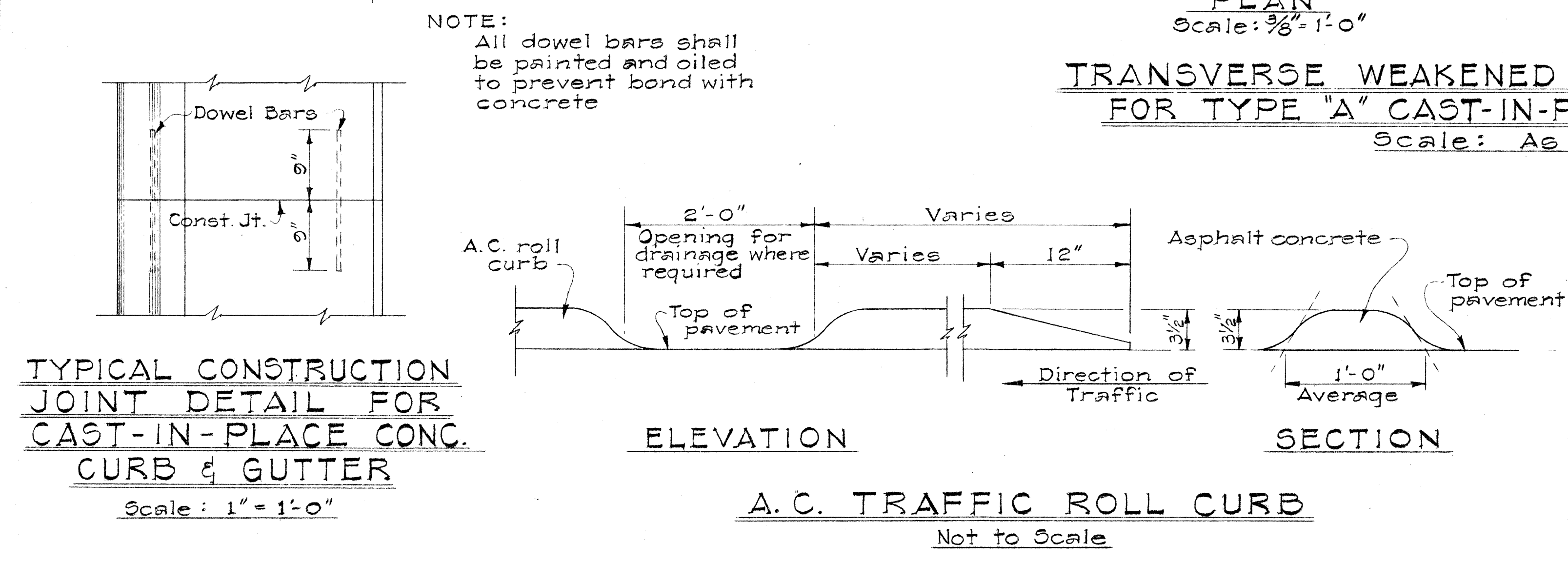
TRANSVERSE WEAKENED PLANE JOINT DETAIL FOR TYPE "A" CAST-IN-PLACE CONC. GUTTERS

Scale: As Shown



PRECAST CONCRETE CURBS

Scale: 1" = 1'-0"



PAYMENT FOR CURB AND CURB & GUTTER TRANSITIONS		
TYPE OF TRANSITION		MEASURED FOR PAYMENT AS:
From	To	
C.I.P. Curb or Precast Curb	C.I.P. Curb & Gutter	C.I.P. Curb & Gutter
C.I.P. Curb & Gutter	Pre-cast Curb & C.I.P. Gutter	C.I.P. Curb & Gutter
C.I.P. Curb & Gutter Type	C.I.P. Curb & Gutter Type	C.I.P. Curb & Gutter 1/2 of Transition to each type
C.I.P. Curb Type	C.I.P. Curb Type	C.I.P. Curb 1/2 of Transition to each type
Bridge Abutments	C.I.P. Curb and/or Gutter or Precast Curb or Lava Rock Curb	C.I.P. Curb and/or Gutter or Precast Curb or Lava Rock Curb

NOTE: C.I.P. = Cast-in-Place

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAILS FOR CONCRETE CURBS AND GUTTERS

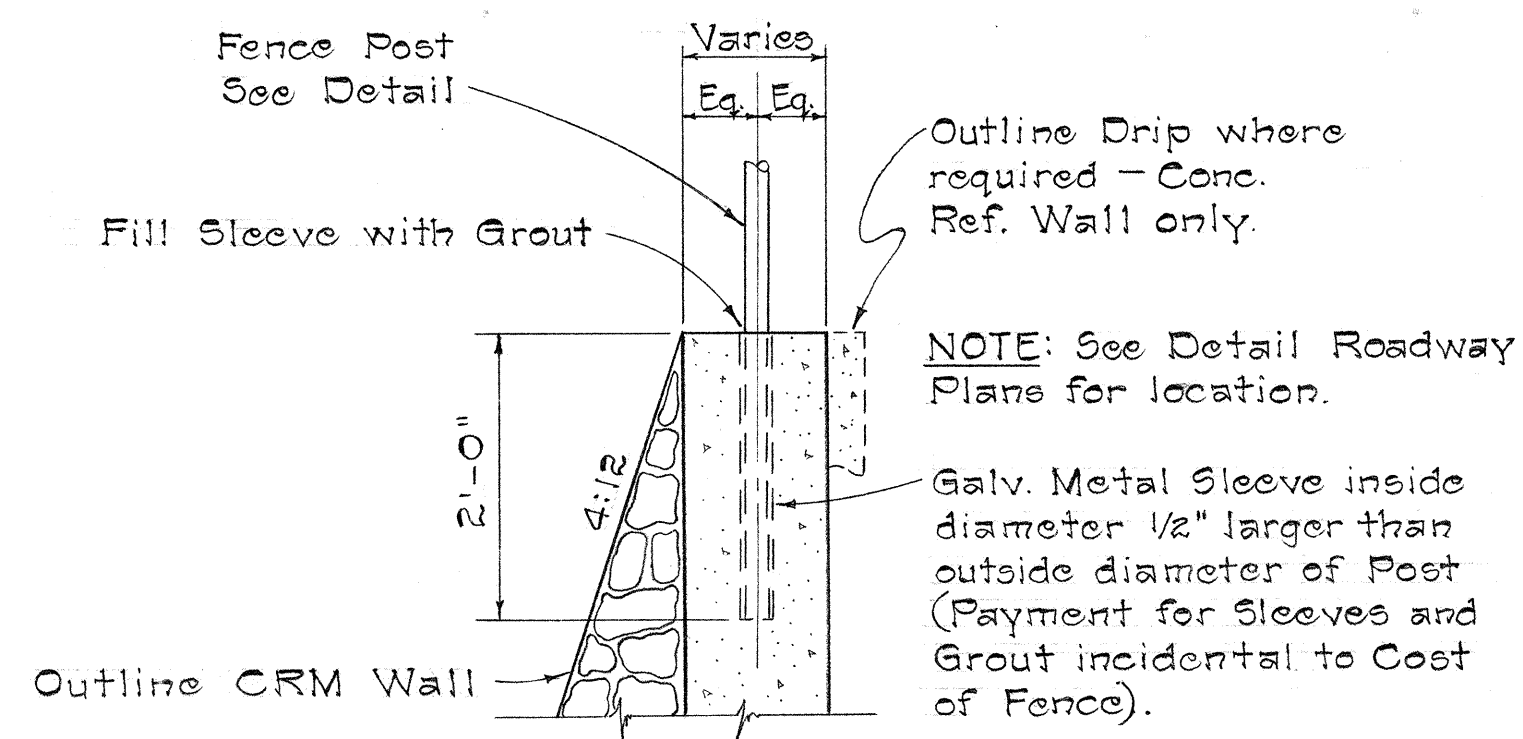
INTERSTATE ROUTE H-1
Victoria St. to Kesaumoku St.
F.A.I. Proj. No. I-HI-1(31), Unit 2

Scale: As Shown Date: April 1967

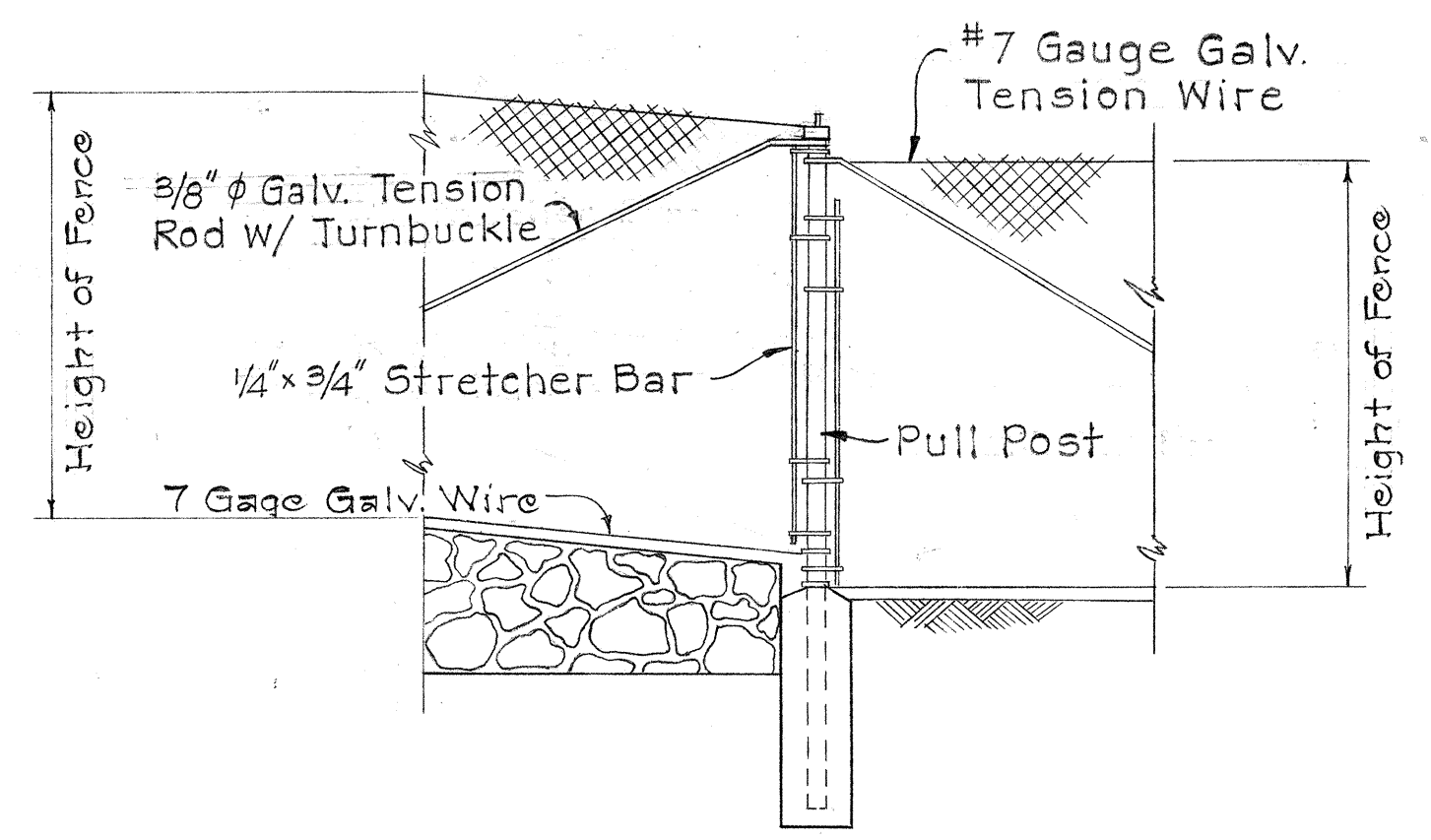
SHEET No. 2 OF 9 SHEETS

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
NOTED BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
NO.	

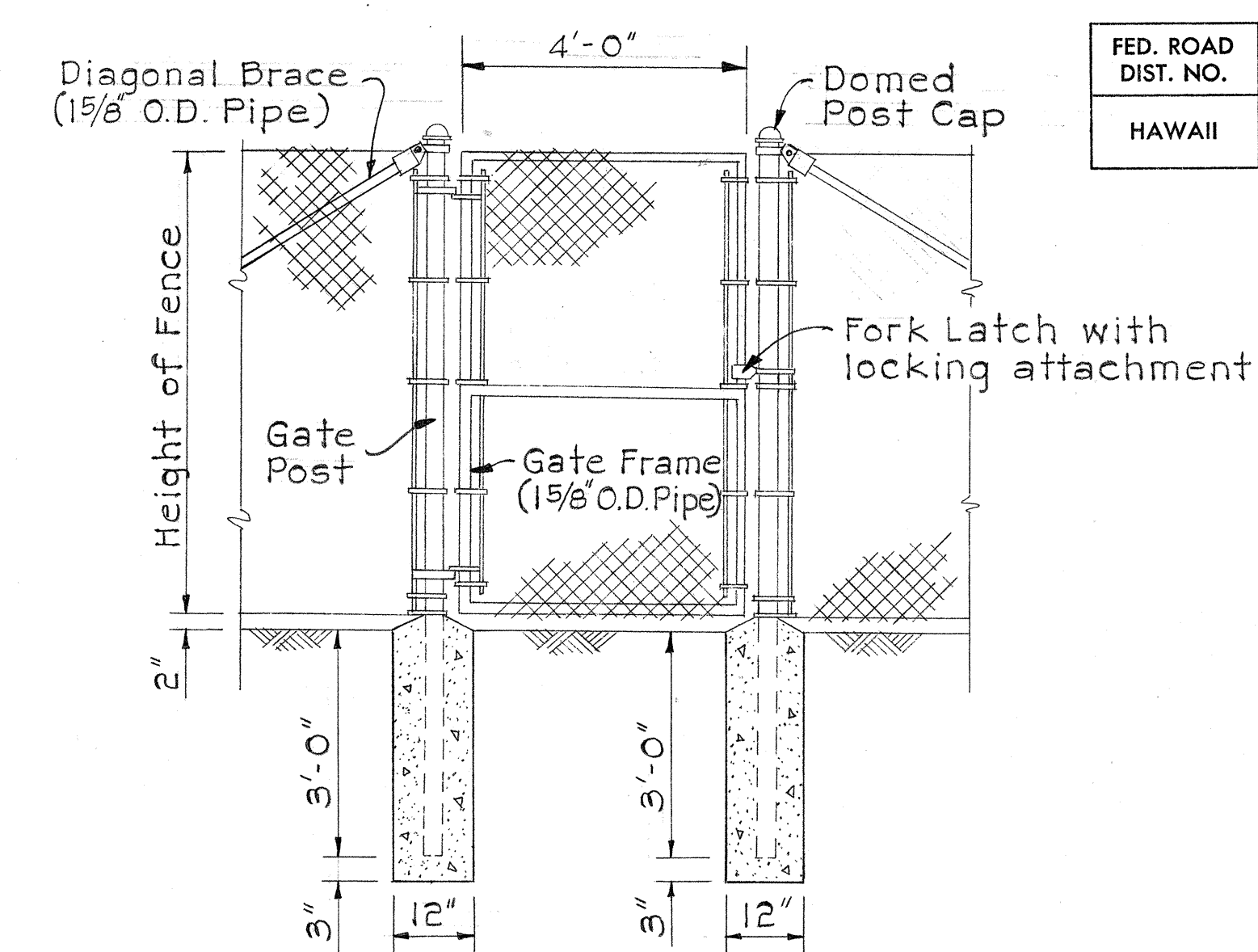
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(31) UNIT 2	1967	21	217



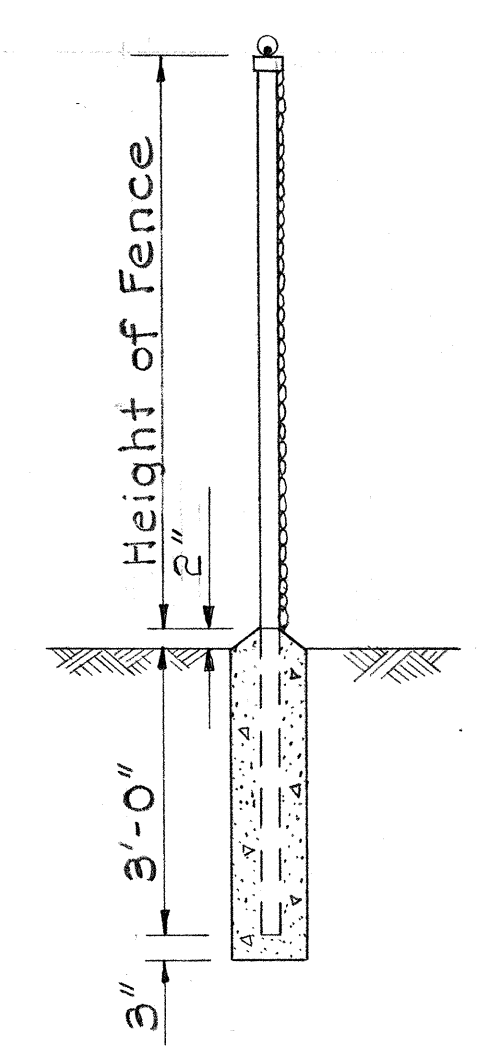
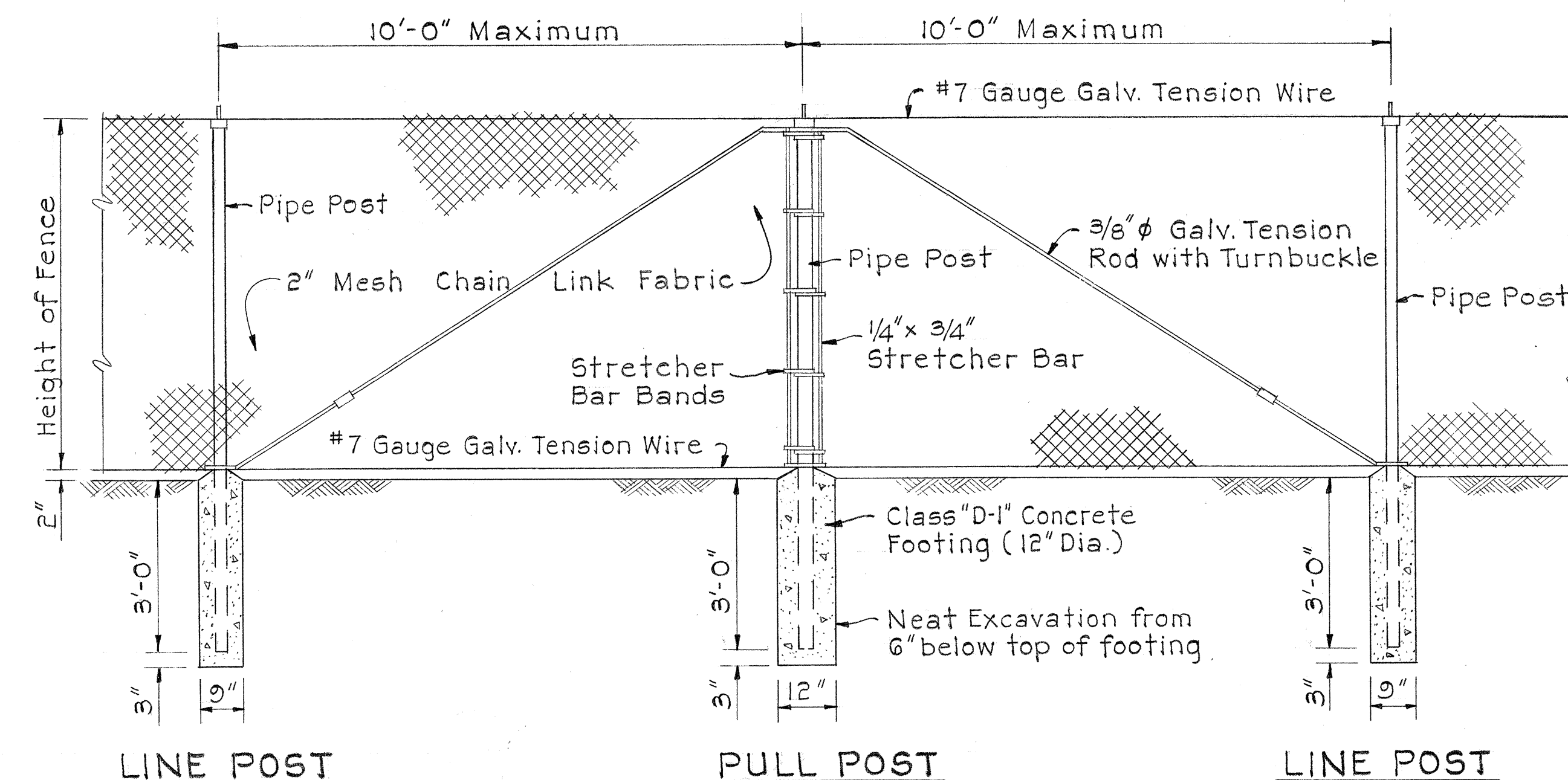
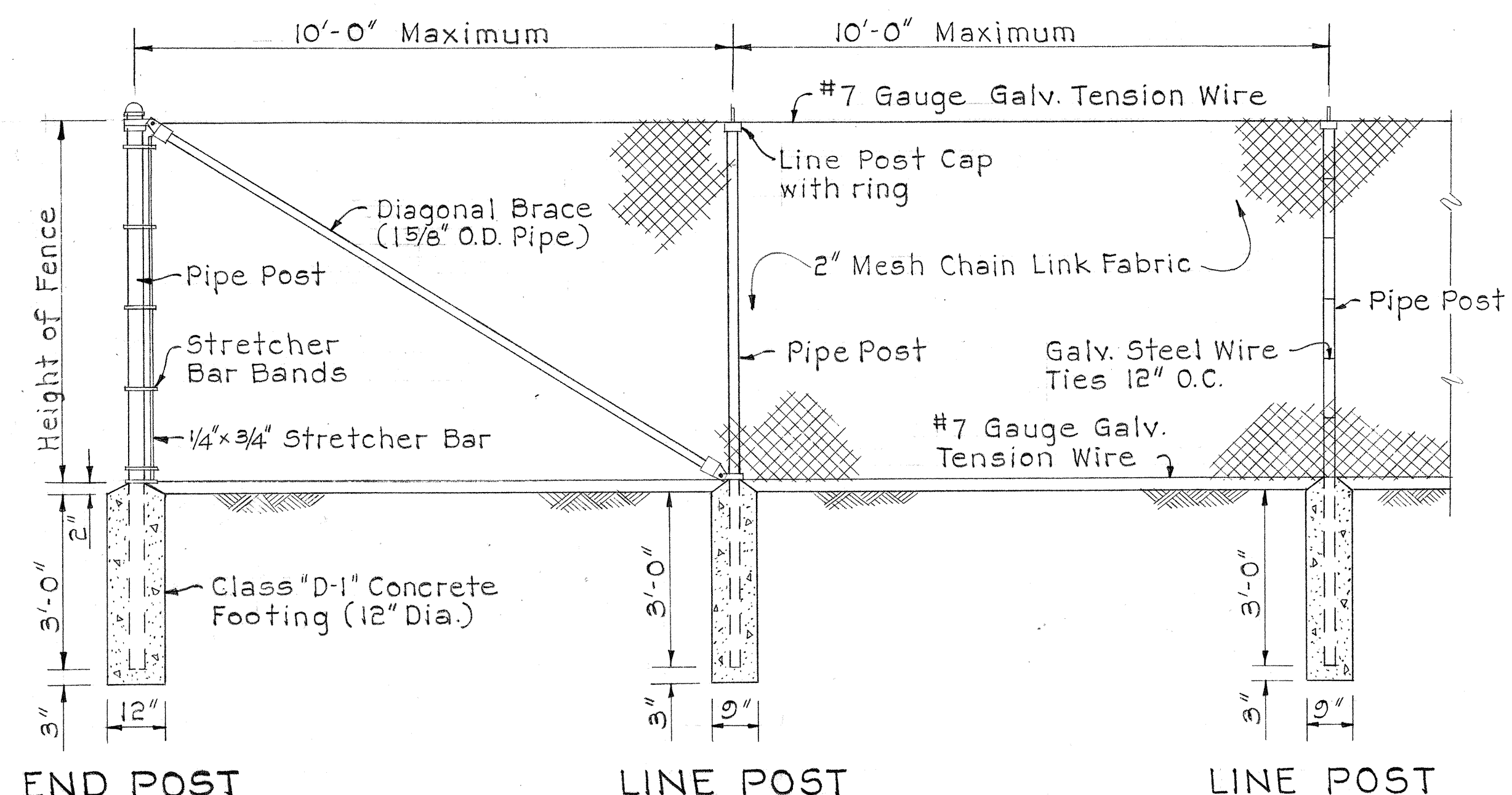
TYPICAL SECTION OF FENCE POST ON CRM & CONC. RETAINING WALL
Scale: 3/4" = 1'-0"



TYPICAL FENCE CONNECTION DETAIL AT RETAINING WALL
Scale: 3/8" = 1'-0"



GATE POST GATE POST DETAIL OF 4 FT. CH. LK. GATE
Scale: 1/2" = 1'-0"



NOTE: See Standard Specifications for pipe post sizes for the varies heights of fence
CHAIN LINK FENCE DETAILS
Scale: 1/2" = 1'-0"

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

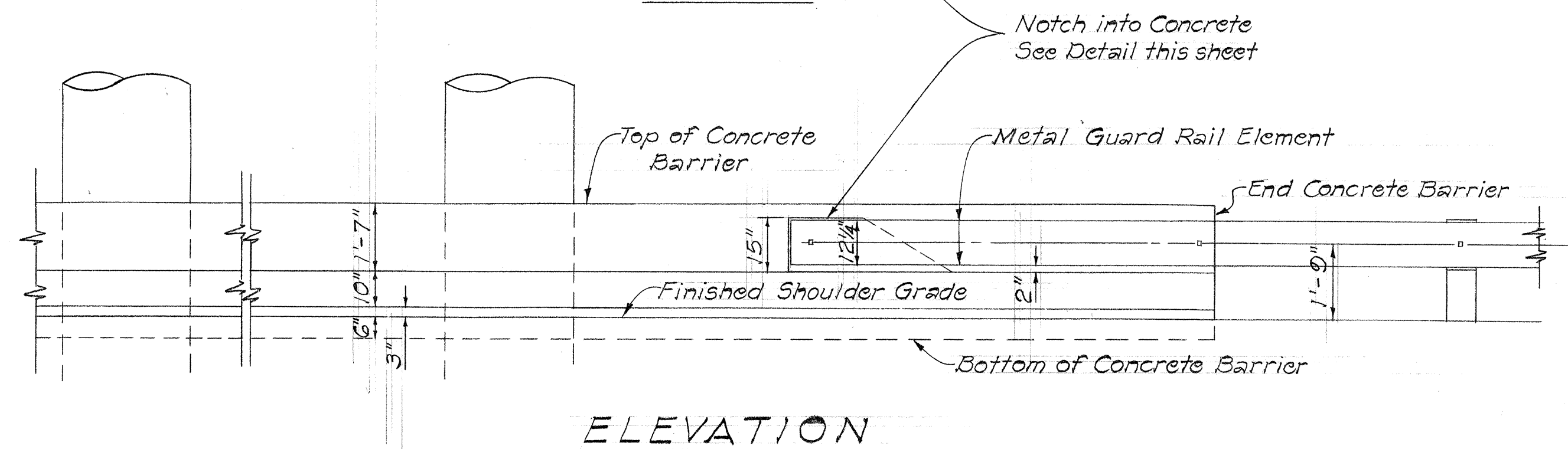
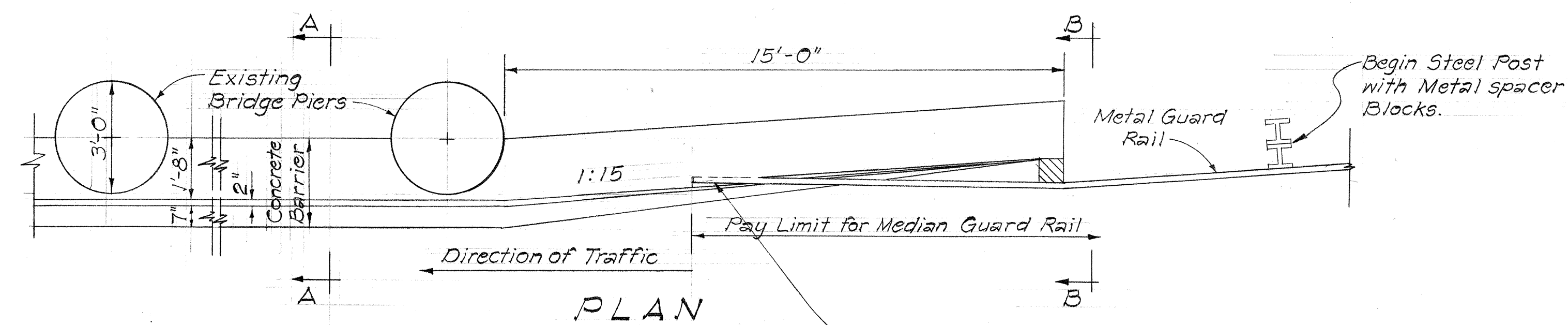
CHAIN LINK FENCE

INTERSTATE ROUTE H-1
Victoria St. to Keeaumoku St.
F.A.I. Proj. No. I-HI-1(31), Unit 2

Scale: As Shown Date: April 1967

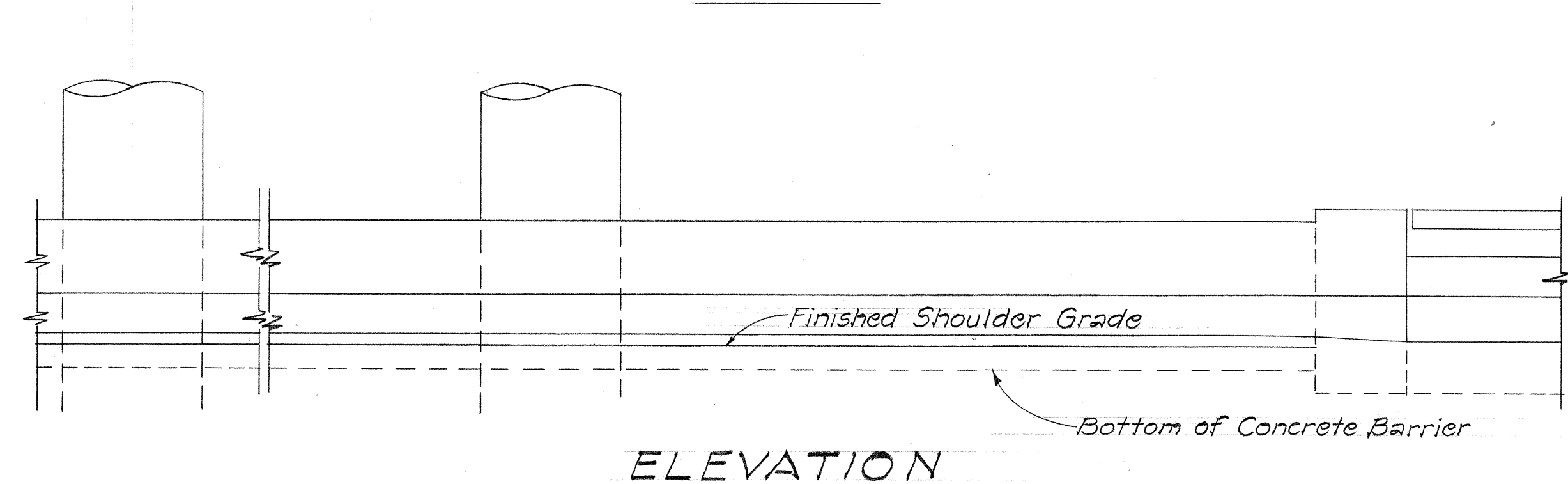
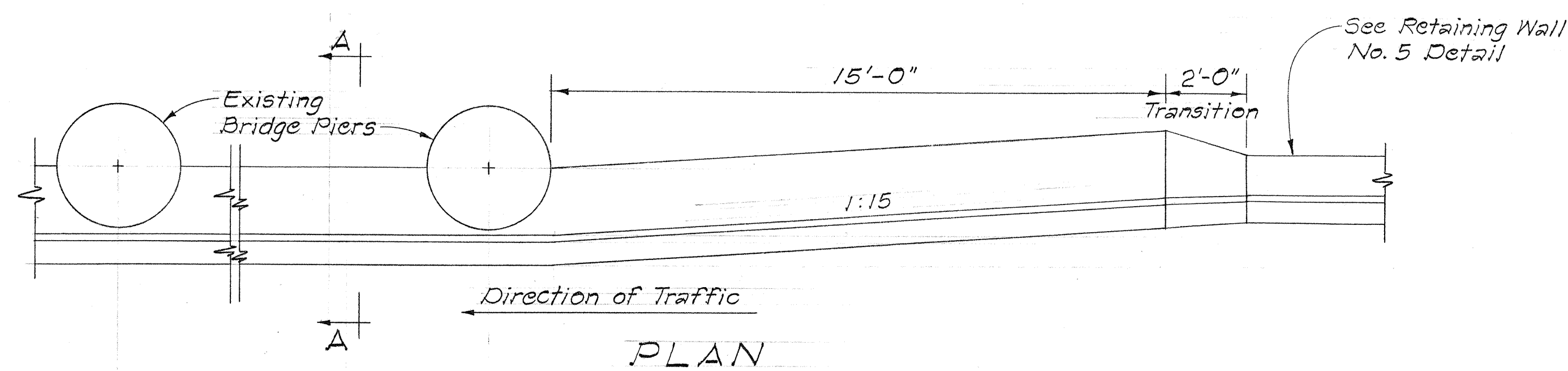
SHEET No. 3 OF 3 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(31), Unit 2	1967	CO22	217



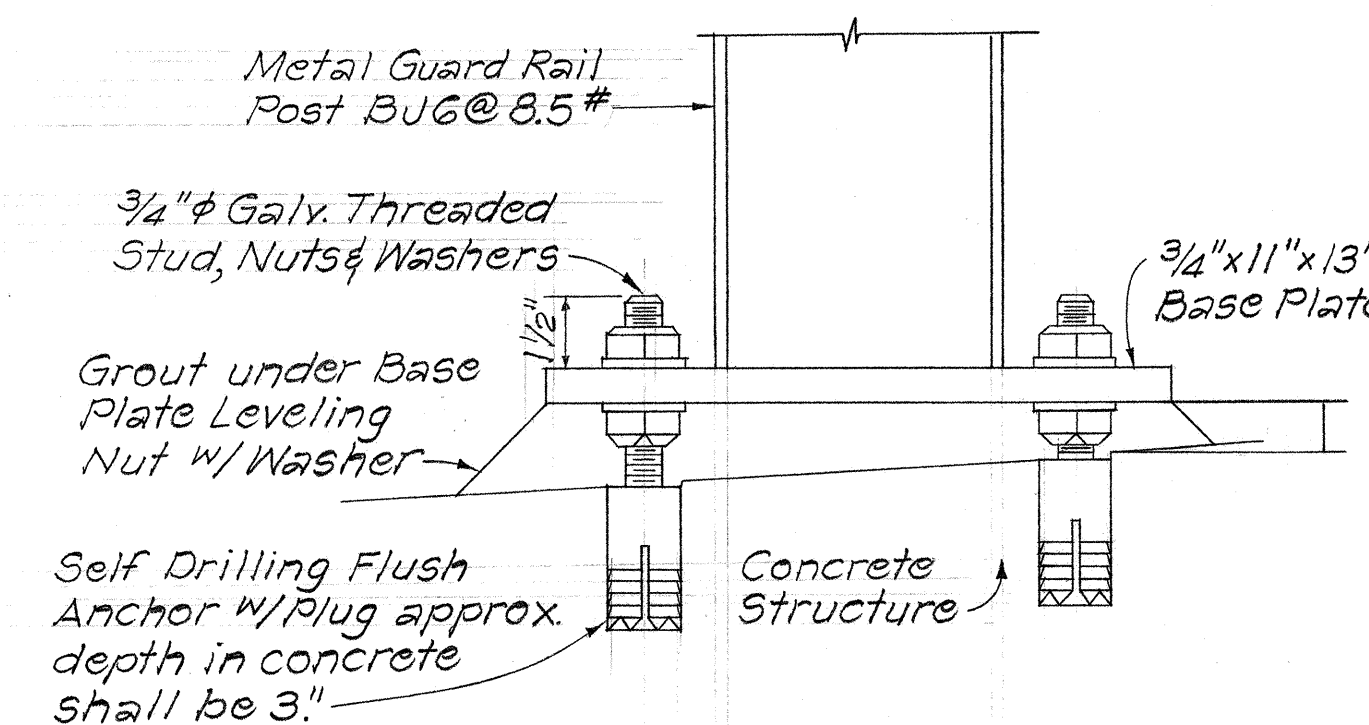
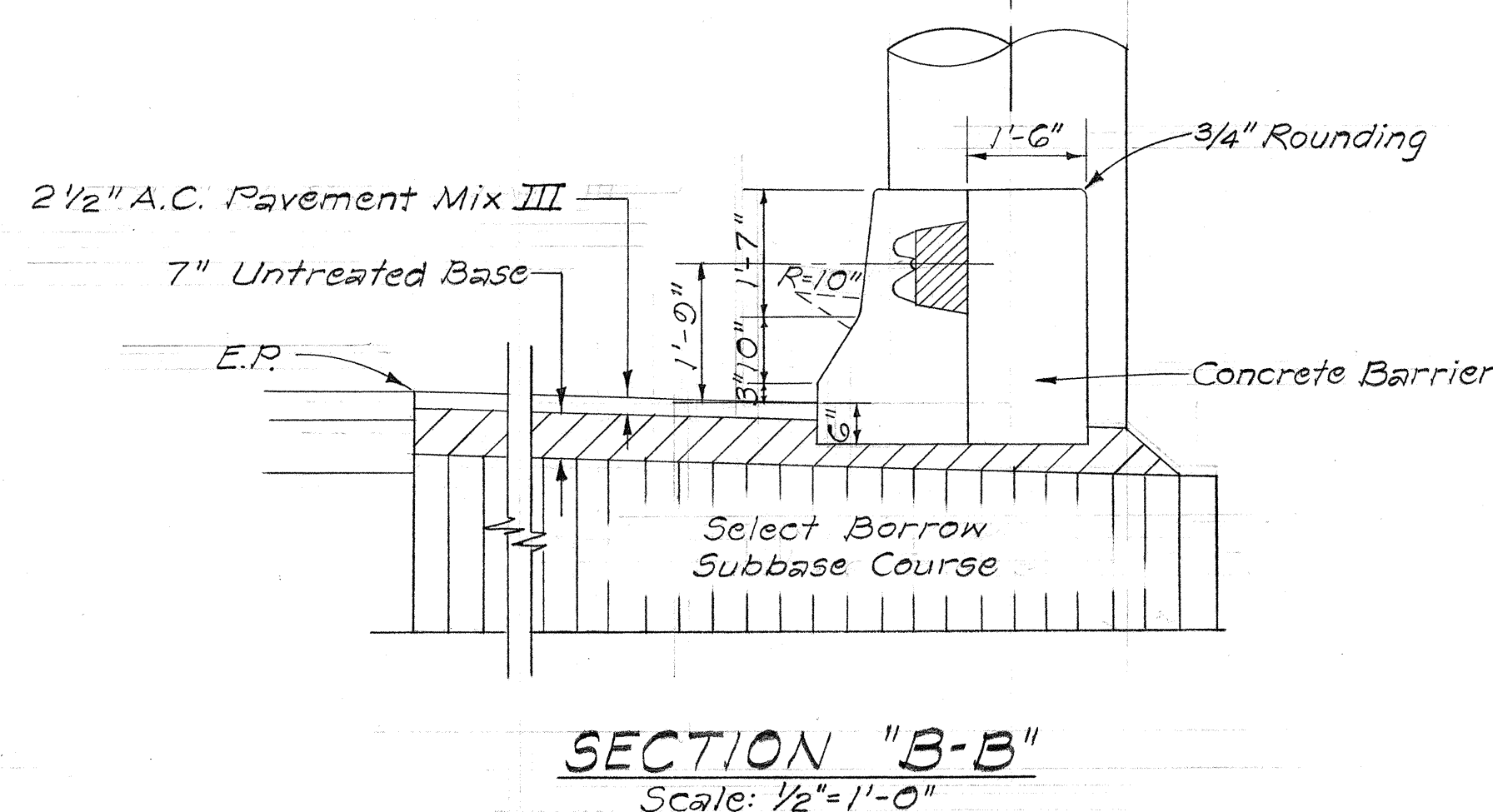
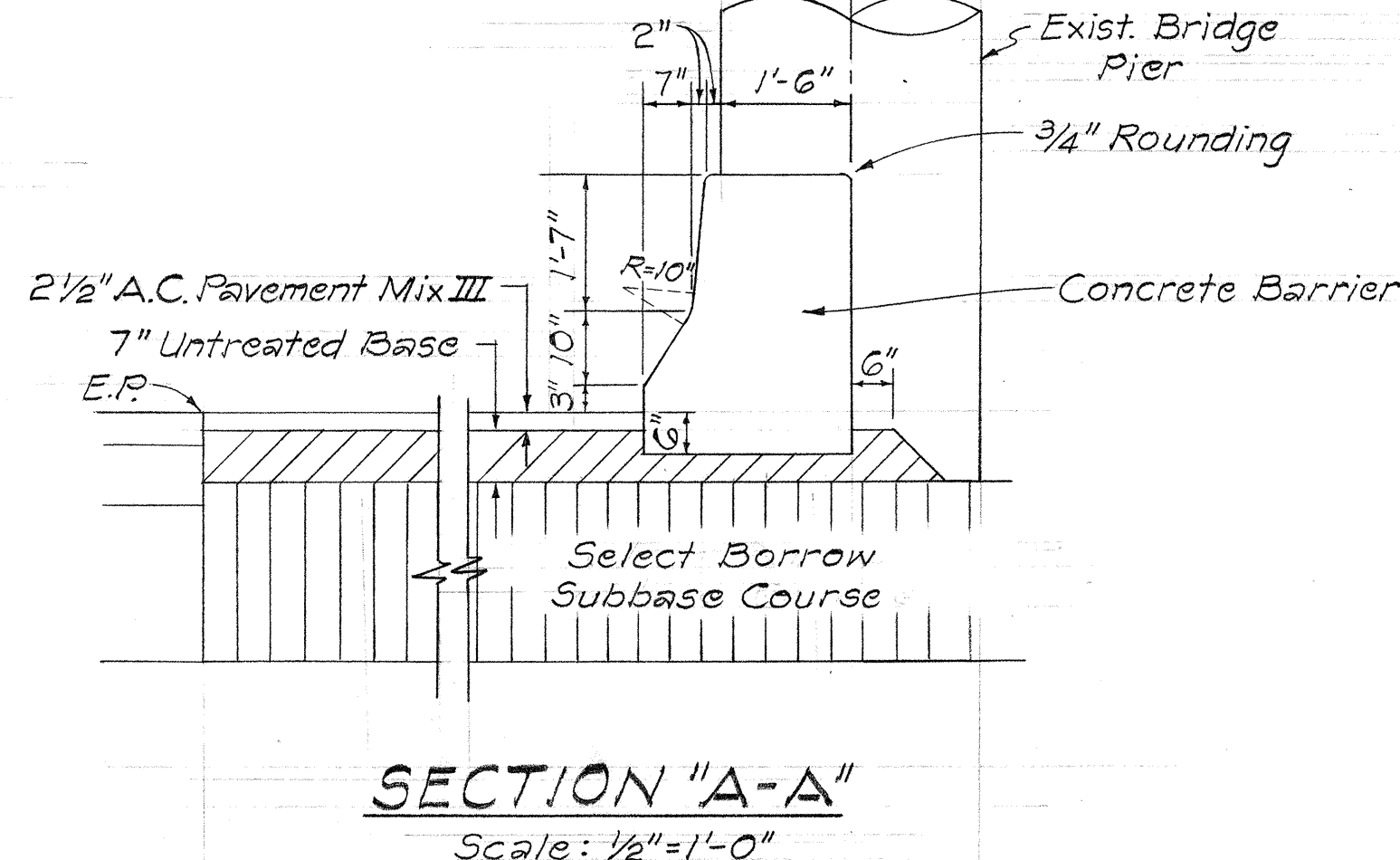
**TYPE "B" CONCRETE BARRIER (FOR ROADSIDES)
AT METAL GUARD RAIL**

Scale: 3/8"=1'-0"

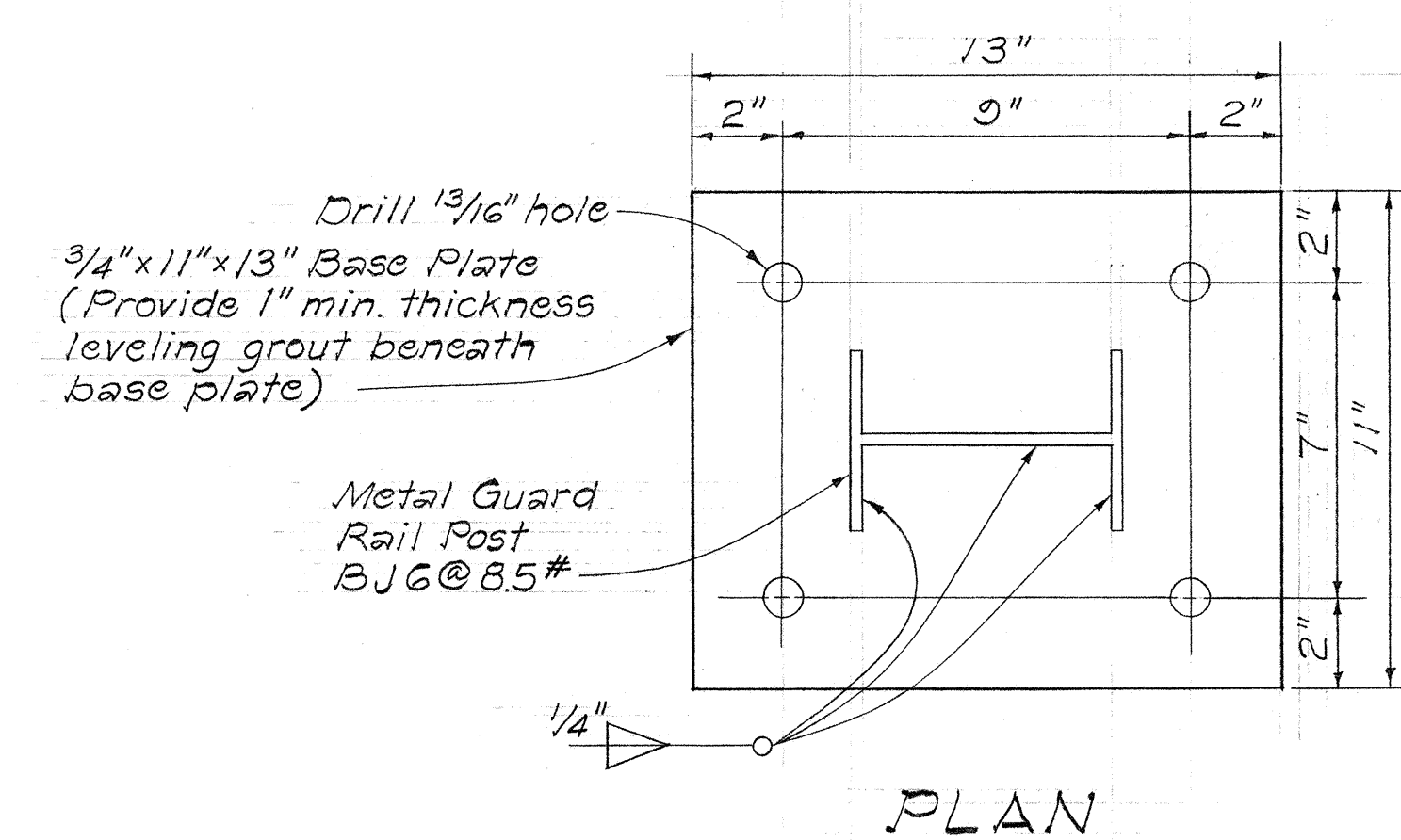


**TYPE "B" CONCRETE BARRIER (FOR ROADSIDES)
AT CONCRETE RAILING ON RETAINING WALL**

Scale: 3/8"=1'-0"

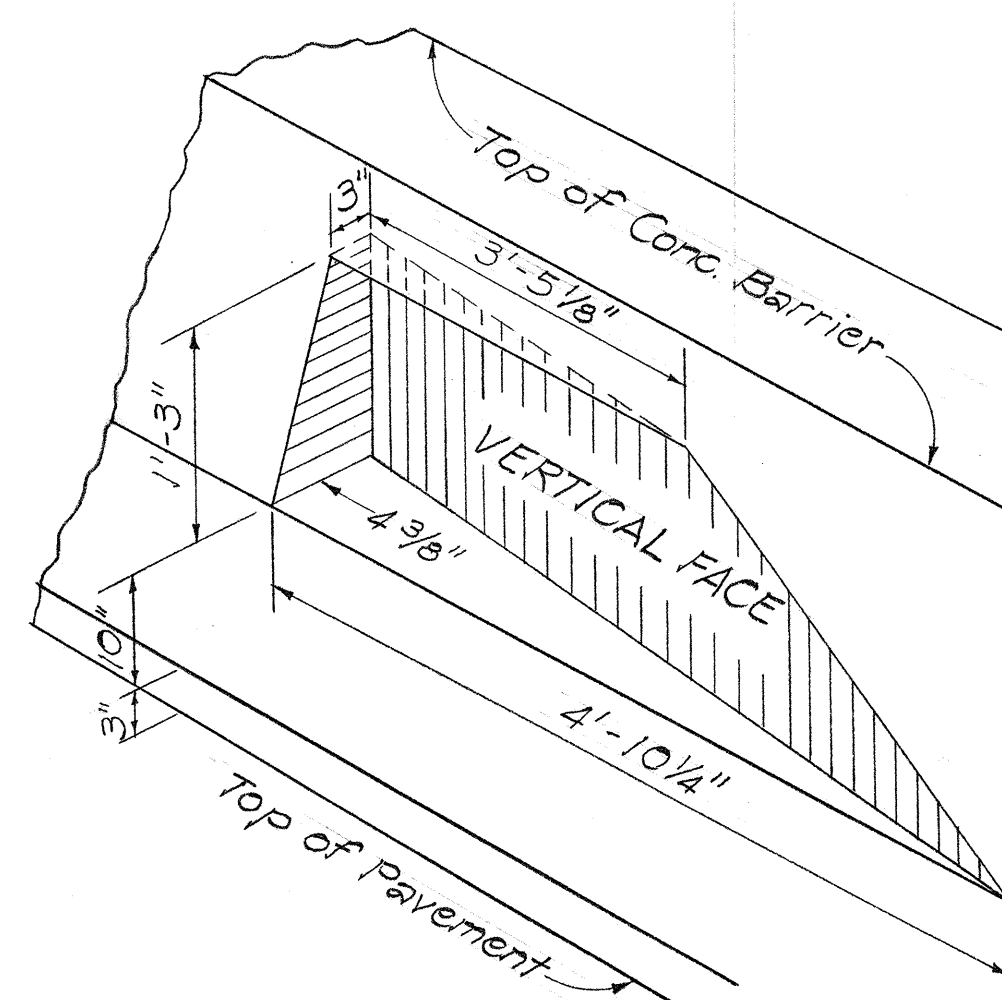


DETAIL OF CONNECTION



**METAL GUARD RAIL
ON CONCRETE STRUCTURES**

NOTE: This detail applies whenever a Metal Guard Rail Post must be located on a concrete structure.



DETAIL OF NOTCH IN CONC. BARRIER

Not to Scale

NOTE:

Dimensions shown are for Type "A" Concrete Barriers at structures with col. diameter of 2'-6" only. The Contractor shall measure and provide notches of appropriate sizes to fit Barriers.

GENERAL NOTES

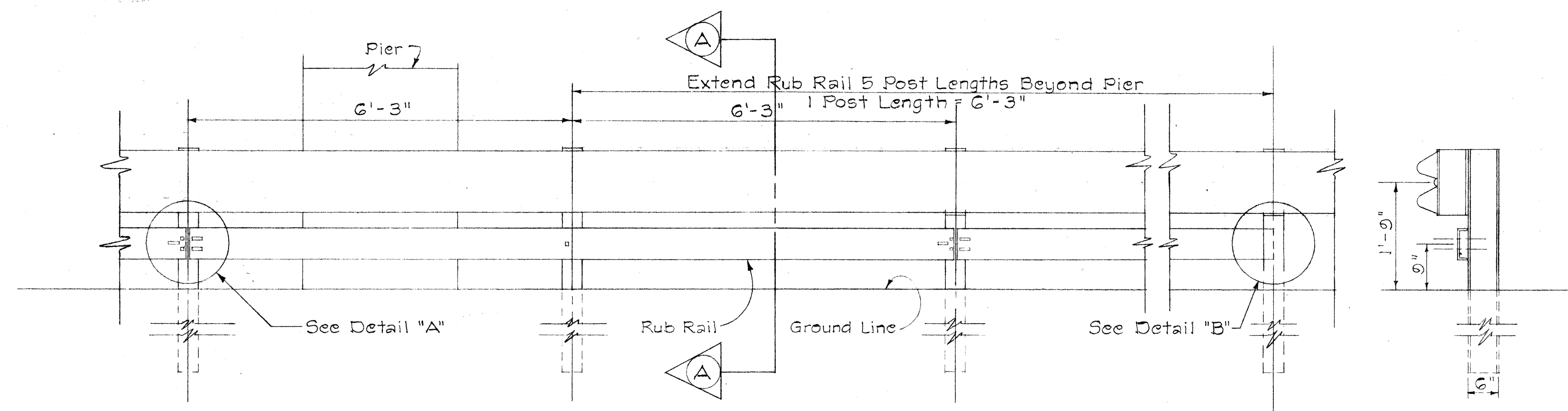
- Concrete for Concrete Barriers shall be Class "A-1."
- Concrete Barriers shall be constructed after bridge structures are completed unless otherwise noted.
- Refer to Roadway Plan Sheets for superelevation, finished grades, pavement design and median widths.
- Height of Guard Rails from finished shoulder grade to Φ guard rail element shall be 1'-0".
- The Contractor shall furnish and install 5/8" Φ bolts of appropriate lengths, and appurtenant washers, nuts and wooden blocks for anchoring metal guard rail elements to Concrete Barrier. (Incidental to Metal Guard Rail.)

THIS SHEET SUPERSEDES AND REPLACES SHEET NO. 22.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
TYPE "B" CONCRETE BARRIER & METAL GUARD RAIL ON CONCRETE STRUCTURES	
Interstate Route H-1 Victoria Street to Keeaumoku Street F.A.I. Proj. No. I-HI-1(31), Unit 2	
Scale: As Shown	Date: Dec. 8, 1967
SHEET No. OF SHEETS	

CO 22

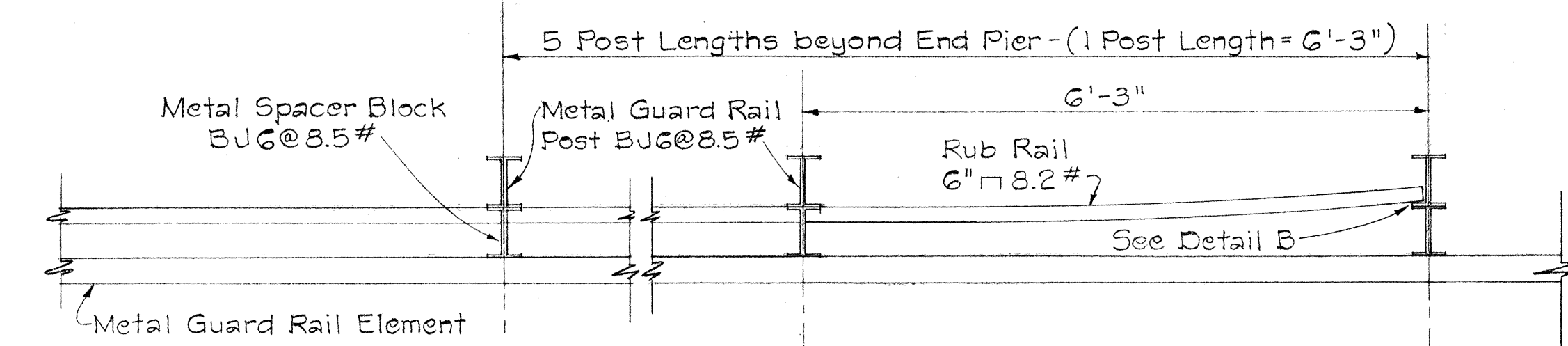
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(31), Unit 2	1967	C0225	217



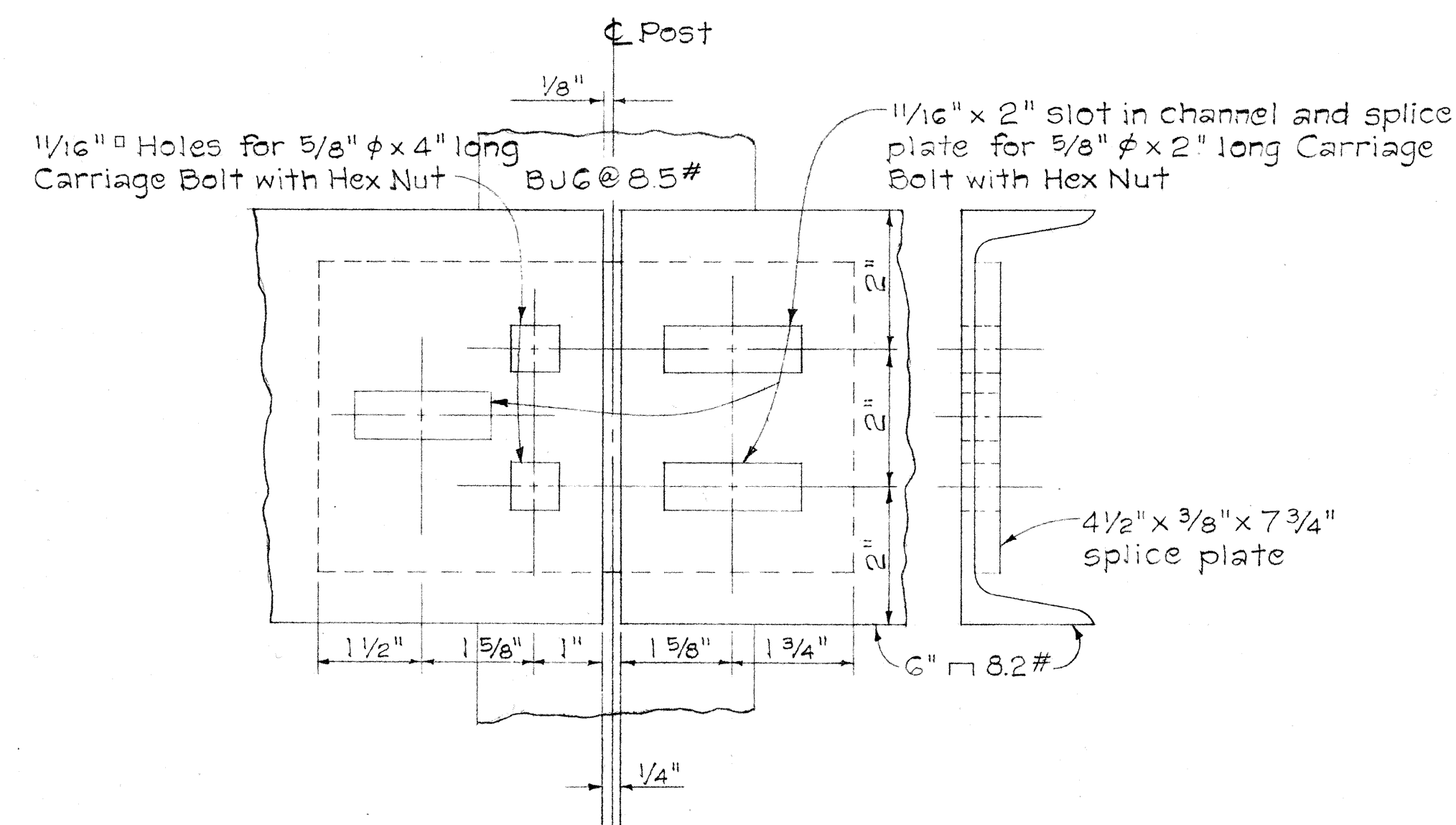
SECTION "A-A"

NOTE:
1. Cut washers are required at all bolt installations.

ELEVATION
RUB RAIL
Scale: 3/4" = 1'-0"

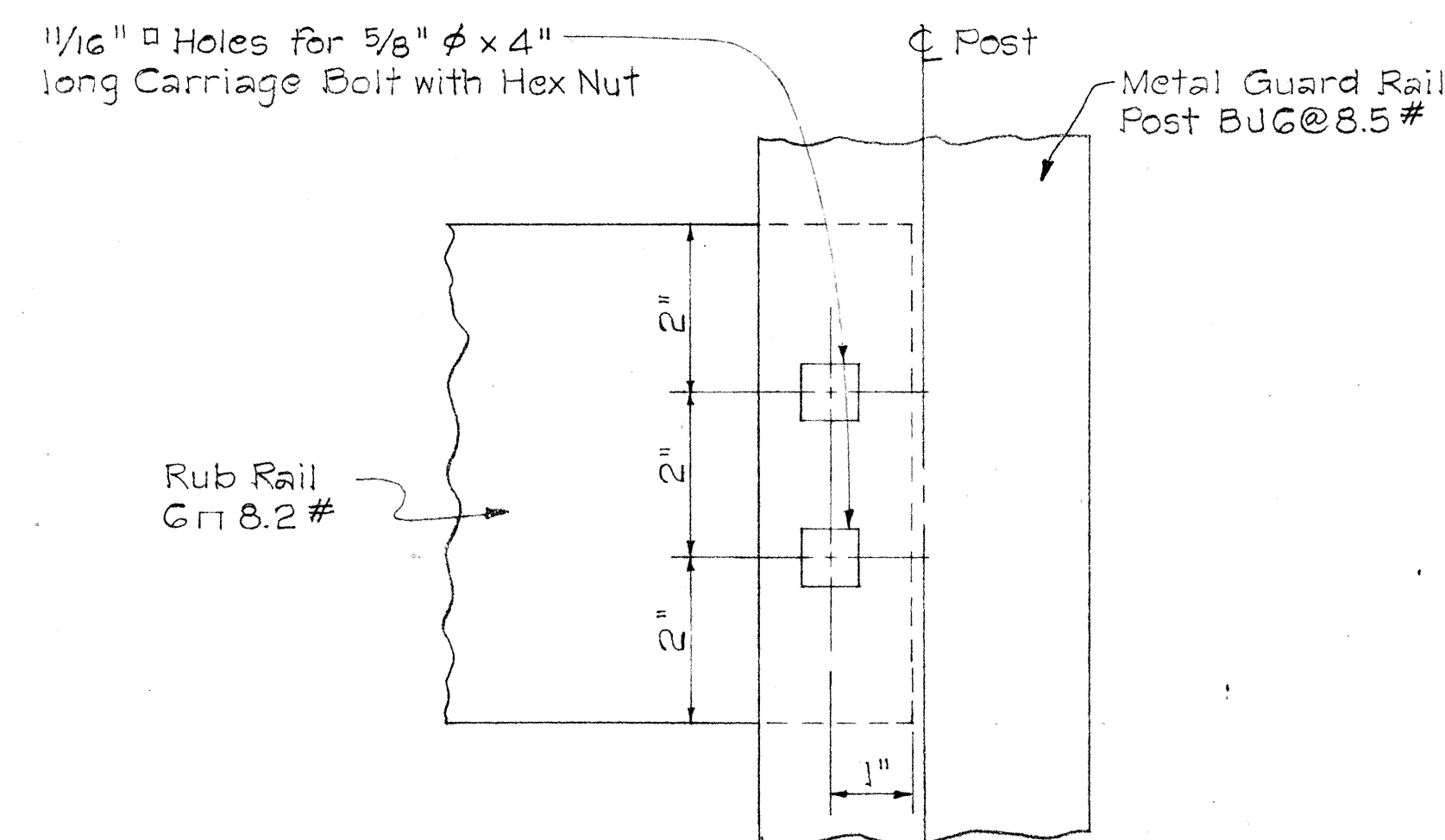


PLAN
Scale: 3/4" = 1'-0"



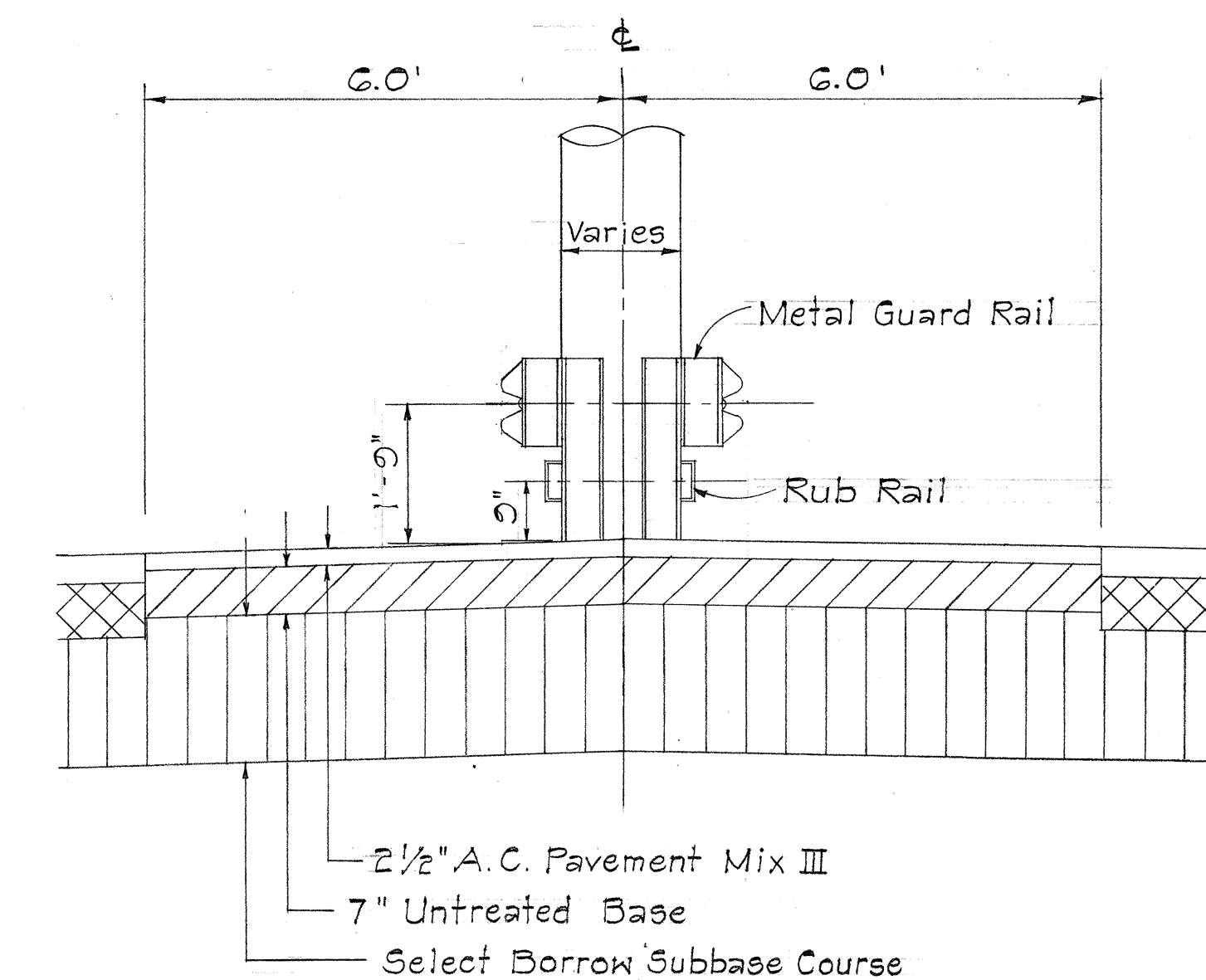
ELEVATION

DETAIL "A" OF RUB RAIL SPLICE
(Rail Splices to occur at 12'-6")
Scale: 6" = 1'-0"



ELEVATION

DETAIL "B"
Scale: 6" = 1'-0"



TYPICAL SECTION AT OBSTRUCTION

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DETAILS OF RUB RAIL
Victoria Street to Keeaumoku Street
F.A.I. Proj. No. I-HI-1(31), Unit 2

Scale: As Shown Date: Dec., 1967

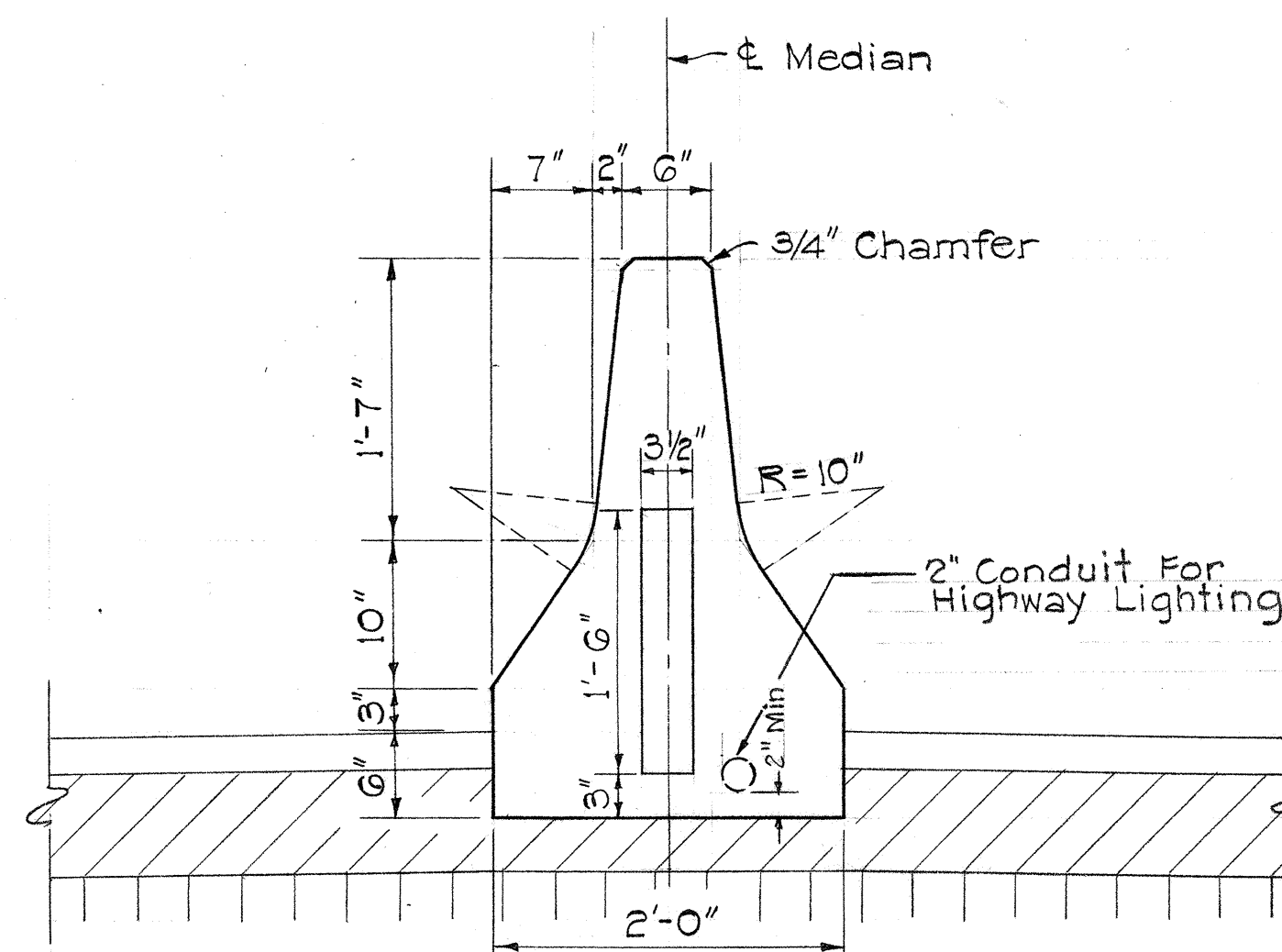
SHEET No. OF SHEETS

THIS SHEET IS A SUPPLEMENT TO
THE CONTRACT DRAWINGS.

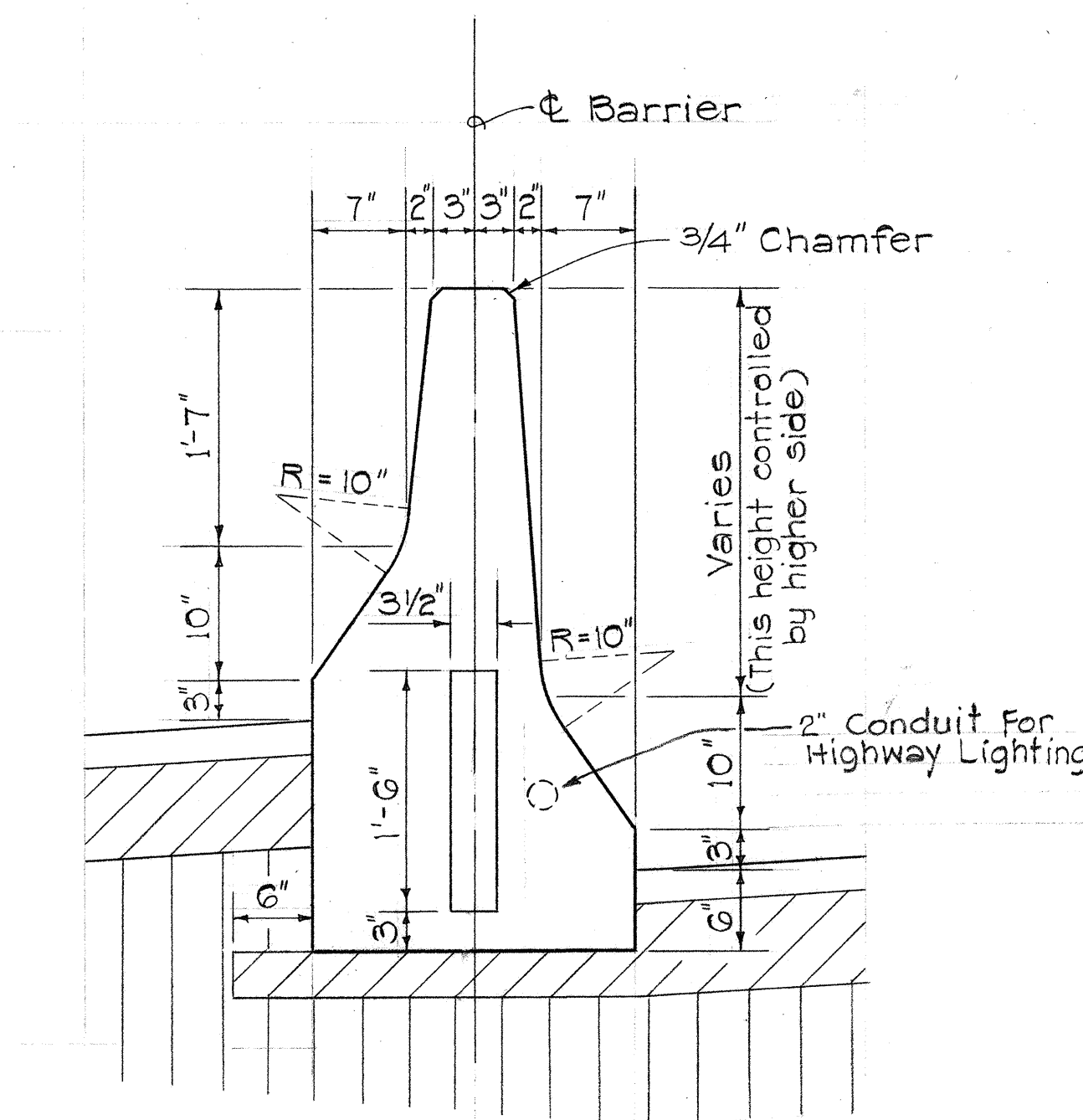
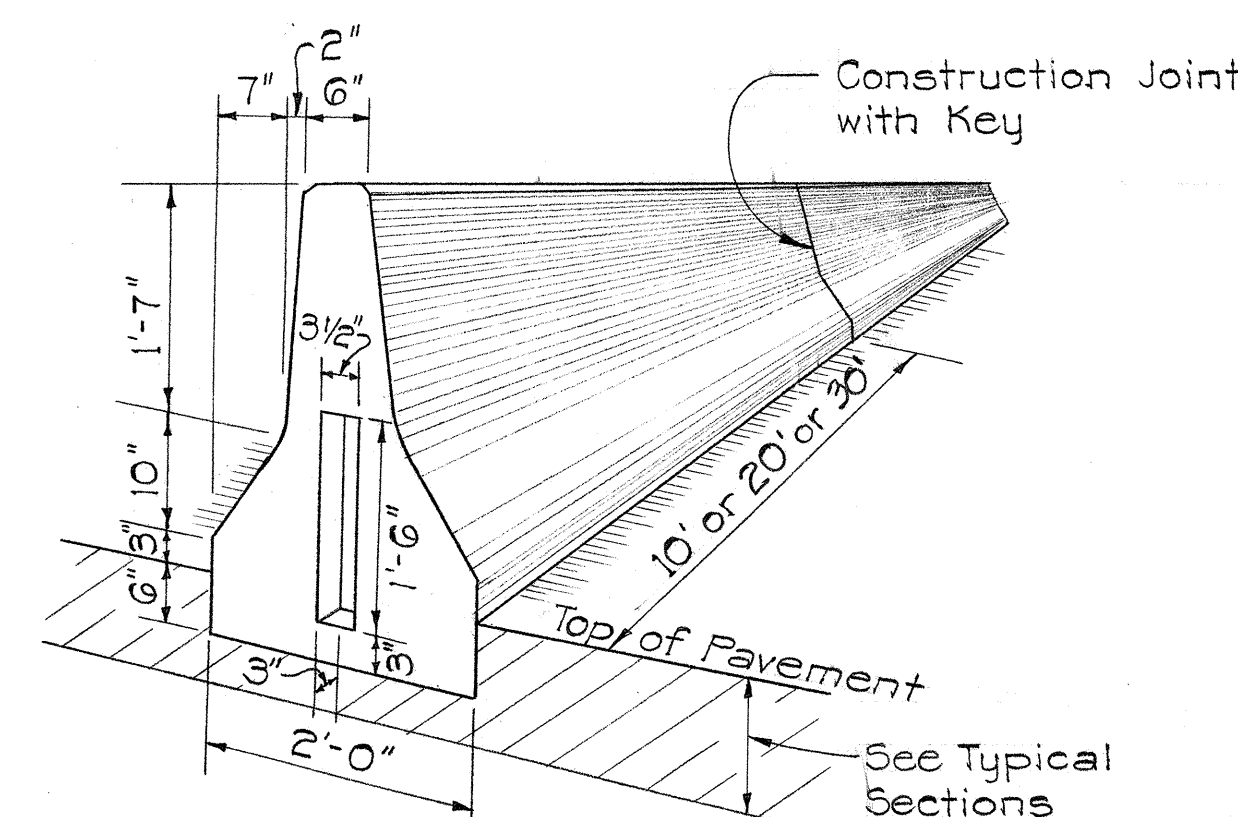
C0225

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(31), Unit 2	1968	00225(1)	217

Revised: April 1, 1969
April 7, 1969



TYPICAL SECTION
(TANGENT SECTION)
Scale: 1" = 1'-0"



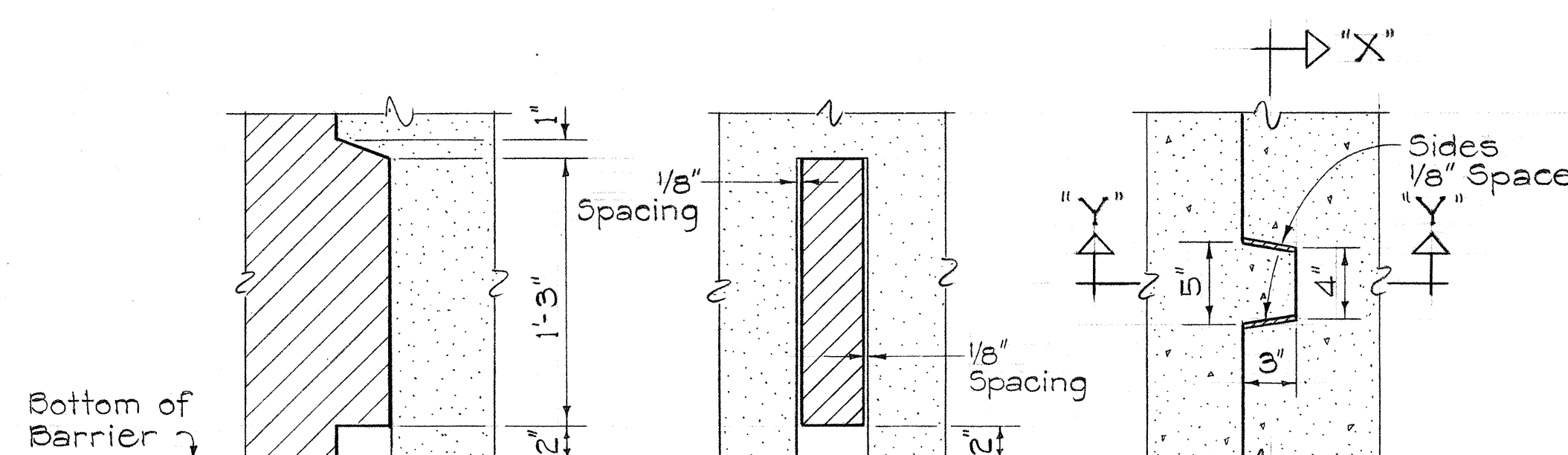
TYPICAL SECTION TYPE "C"
CONCRETE BARRIER
(SUPERELEVATED SECTION)
Scale: 1" = 1'-0"

SUMMARY OF CONCRETE MEDIAN BARRIER

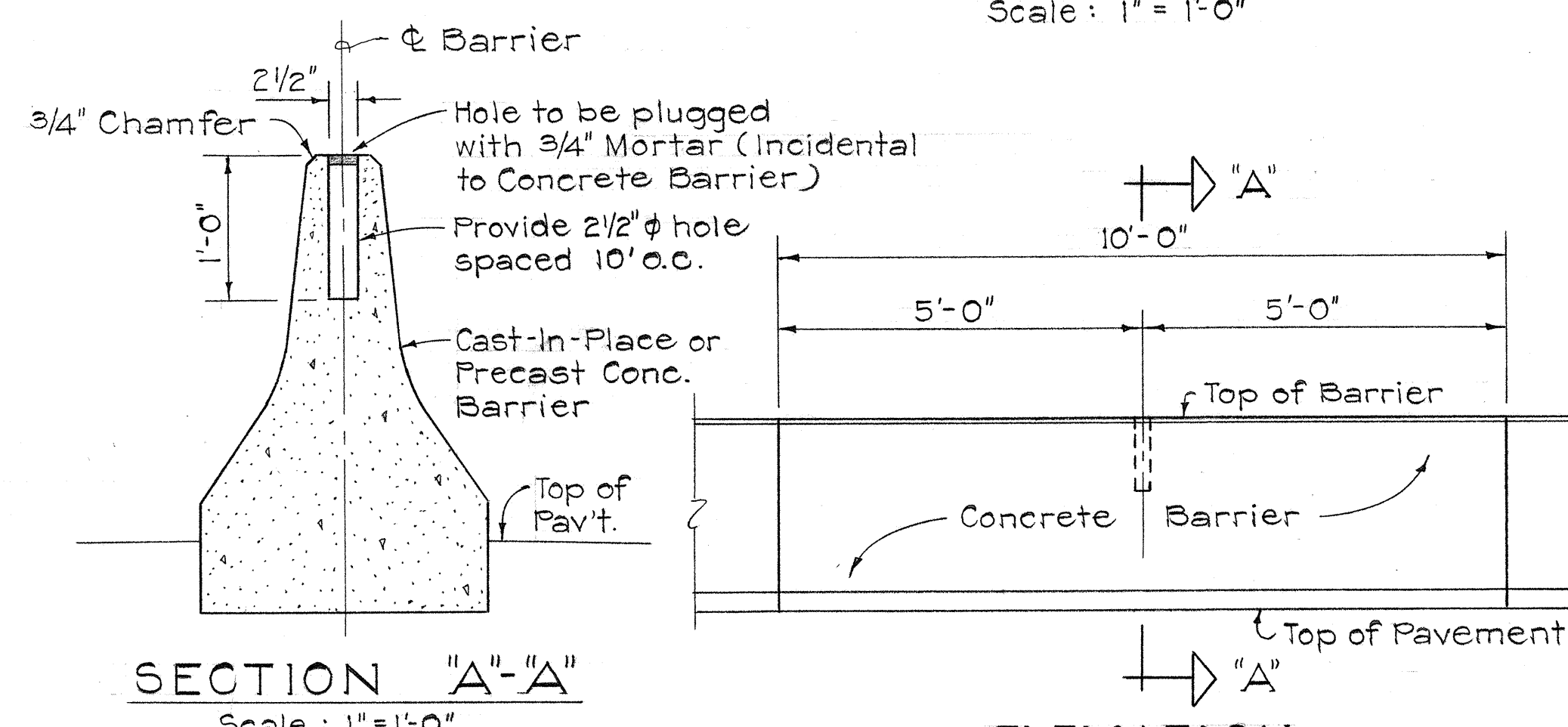
STATION	TYPE "A"	TYPE "B"	TYPE "C"	TYPE "C" AT EXPRESSWAY SIGN OR HWY. LIGHTING	TRANS.
	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.	
202+25 to 202+56				6	25
202+56 to 202+89			33		
202+89 to 203+24				3	32
203+24 to 203+83			59		
203+83 to 204+18				3	32
204+18 to 219+40	See Concrete Barrier on Viaduct Details				
219+40 to 228+76			579	30	327
228+76 to 229+22	46	122			
229+22 to 230+03				6	75
230+03 to 233+72			369		
233+72 to 234+28				6	50
234+28 to 234+93			65		
TOTALS	46	122	1080	54	566

NOTE: All the quantities shown are original theoretical quantities. For actual quantities, refer to project ledger and/or computation book.

- NOTES:
- Concrete for Concrete Barriers shall be A-1.
 - Reinforcing Steel and Construction Joint shall be provided at all Structure Columns as shown in Details for Type "A" Concrete Barrier (Incidental to Concrete Barrier).
 - Expansion Joint shall be constructed at ninety (90) foot intervals or at existing expansion joints of Structures (Use 1/2" pre-molded joint filler, incidental to Concrete Barrier).
 - Construction Joints with Keys shall be provided for all Concrete Barrier.
 - Precast Type "C" Concrete Barrier may be installed as an alternate to Cast-in-Place Type "C" Concrete Barrier at tangent section.
 - 2 1/2" ϕ hole spaced 10' o.c. as shown in details shall be provided for all Concrete Barriers (Incidental to Concrete Barrier).

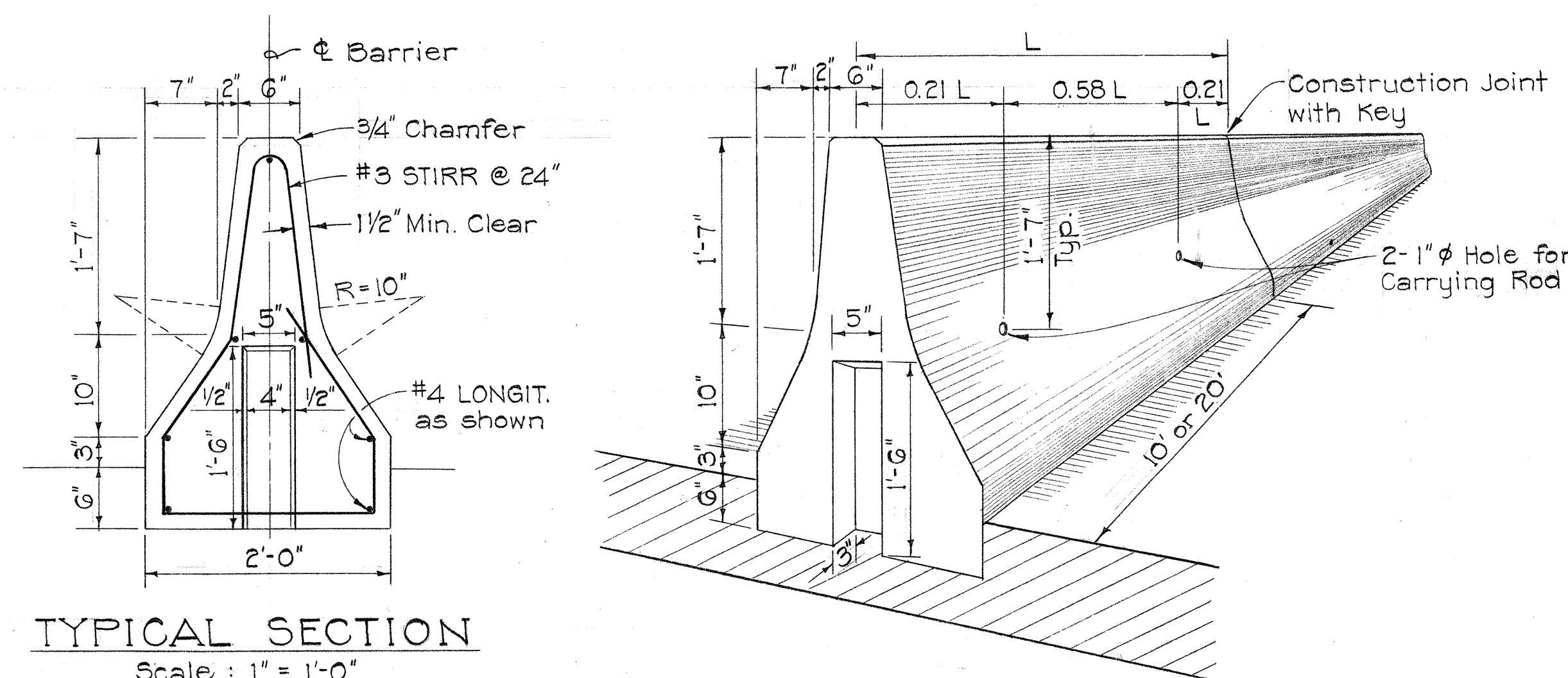


SECTION "Y-Y" SECTION "X-X"
TYPICAL CONSTRUCTION JOINT KEY
(See Sheet CO 135 S(3) for Details of Alternate Construction Joints)
Scale: 1 1/2" = 1'-0"



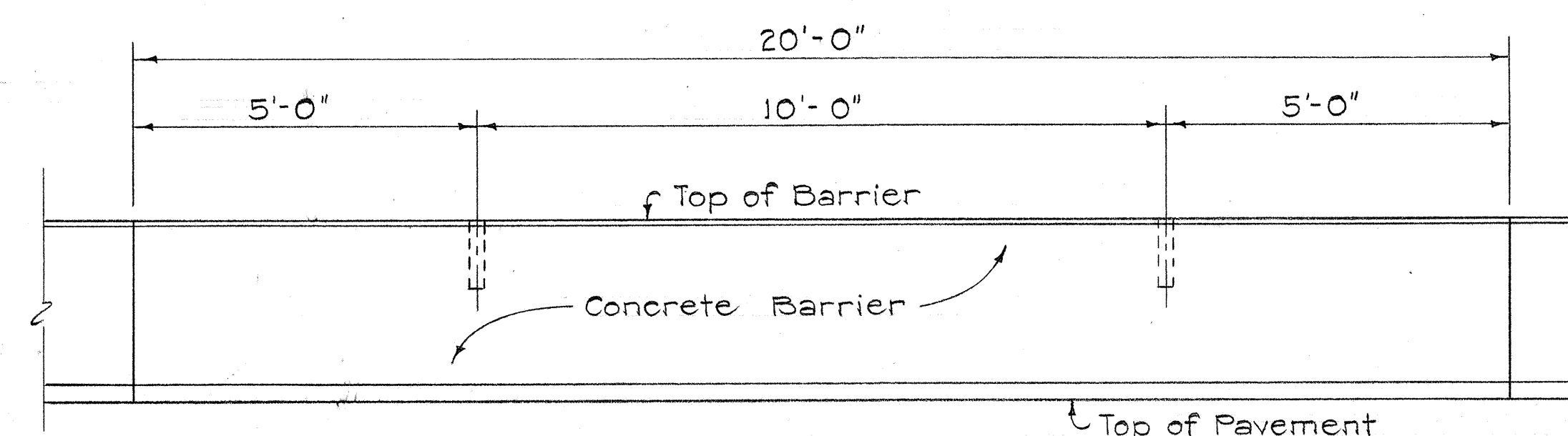
SECTION "A-A"
Scale: 1" = 1'-0"

ELEVATION
10' LENGTH CONCRETE BARRIER
Scale: 1/2" = 1'-0"



TYPICAL SECTION
Scale: 1" = 1'-0"

DETAILS FOR PRECAST TYPE "C"
CONCRETE BARRIER



ELEVATION
20' LENGTH CONCRETE BARRIER
Scale: 1/2" = 1'-0"

HOLE SPACING DETAILS FOR CONC. BARRIER

THIS SHEET IS A SUPPLEMENT TO
THE CONTRACT PLANS AND
SUPERSEDES & REPLACES
SHEET NO. CO 22 S

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

CONCRETE MEDIAN BARRIER

INTERSTATE ROUTE H-1
Victoria St. to Keeaumoku St.
F.A.I. Proj. No. I-HI-1(31), Unit 2

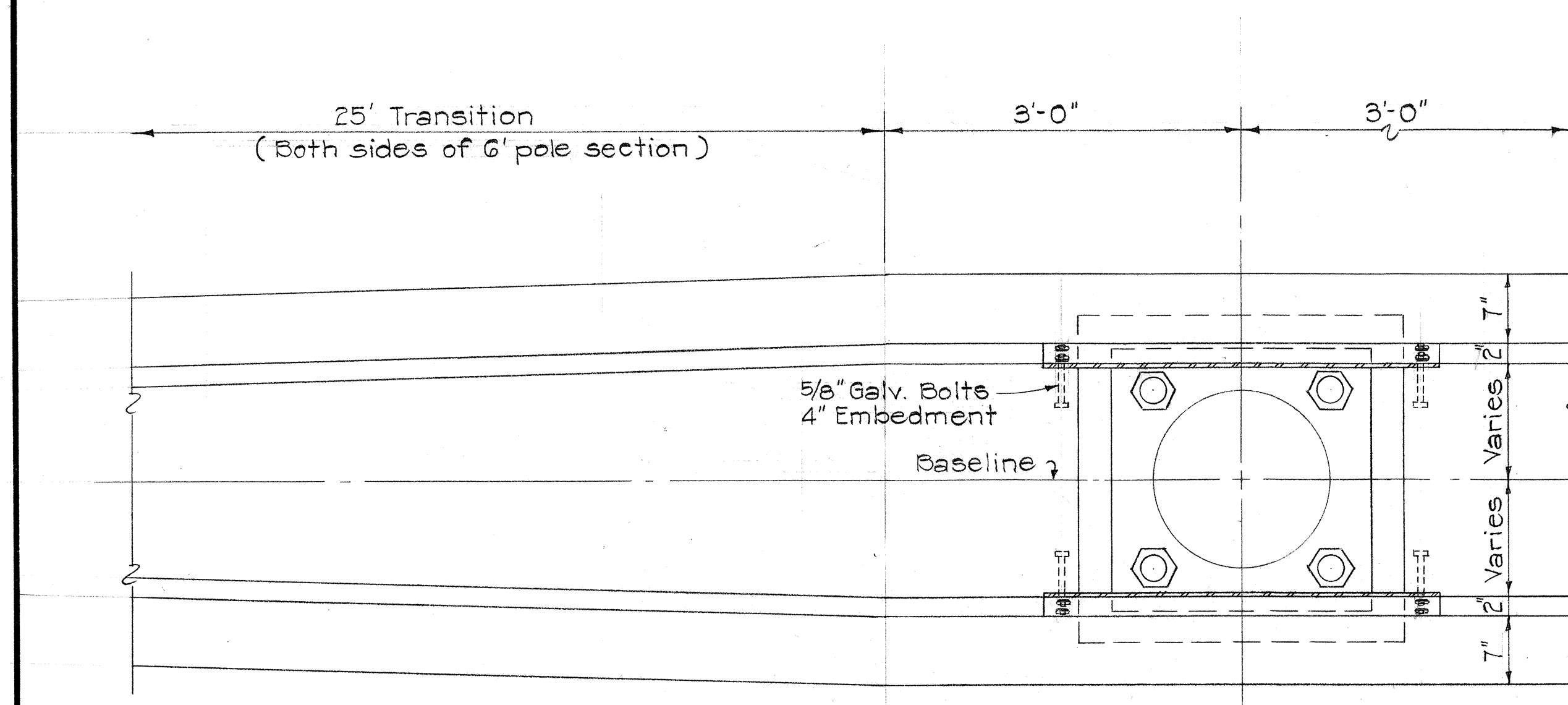
Scale: As Shown Date: Aug., 1968

SHEET No. OF SHEETS

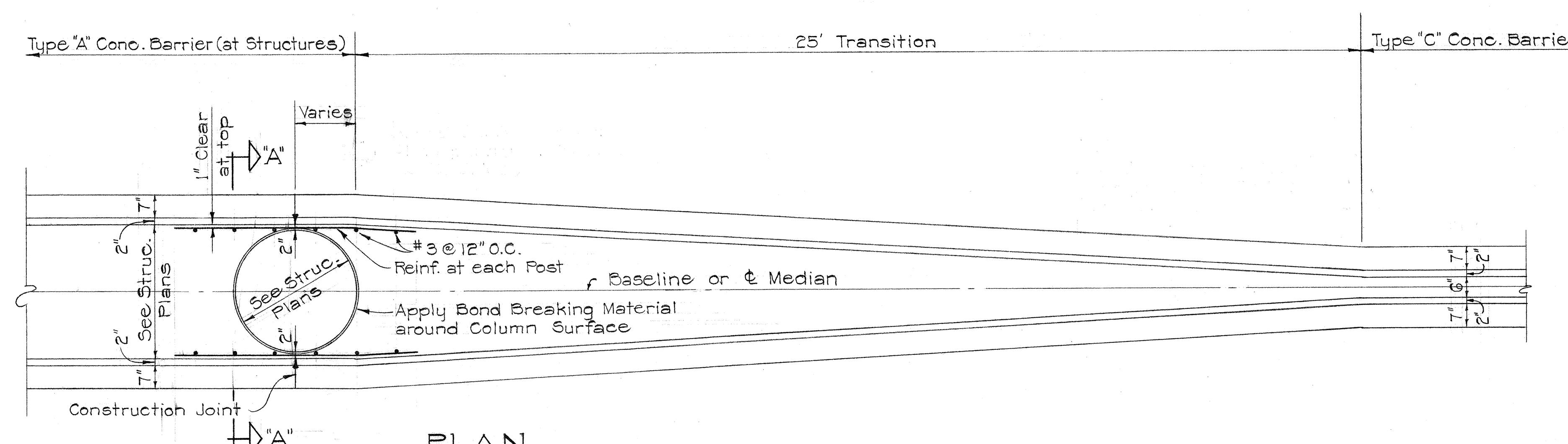
CO 22 S(1)

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(31), Unit 2	1968	00225(2)	217

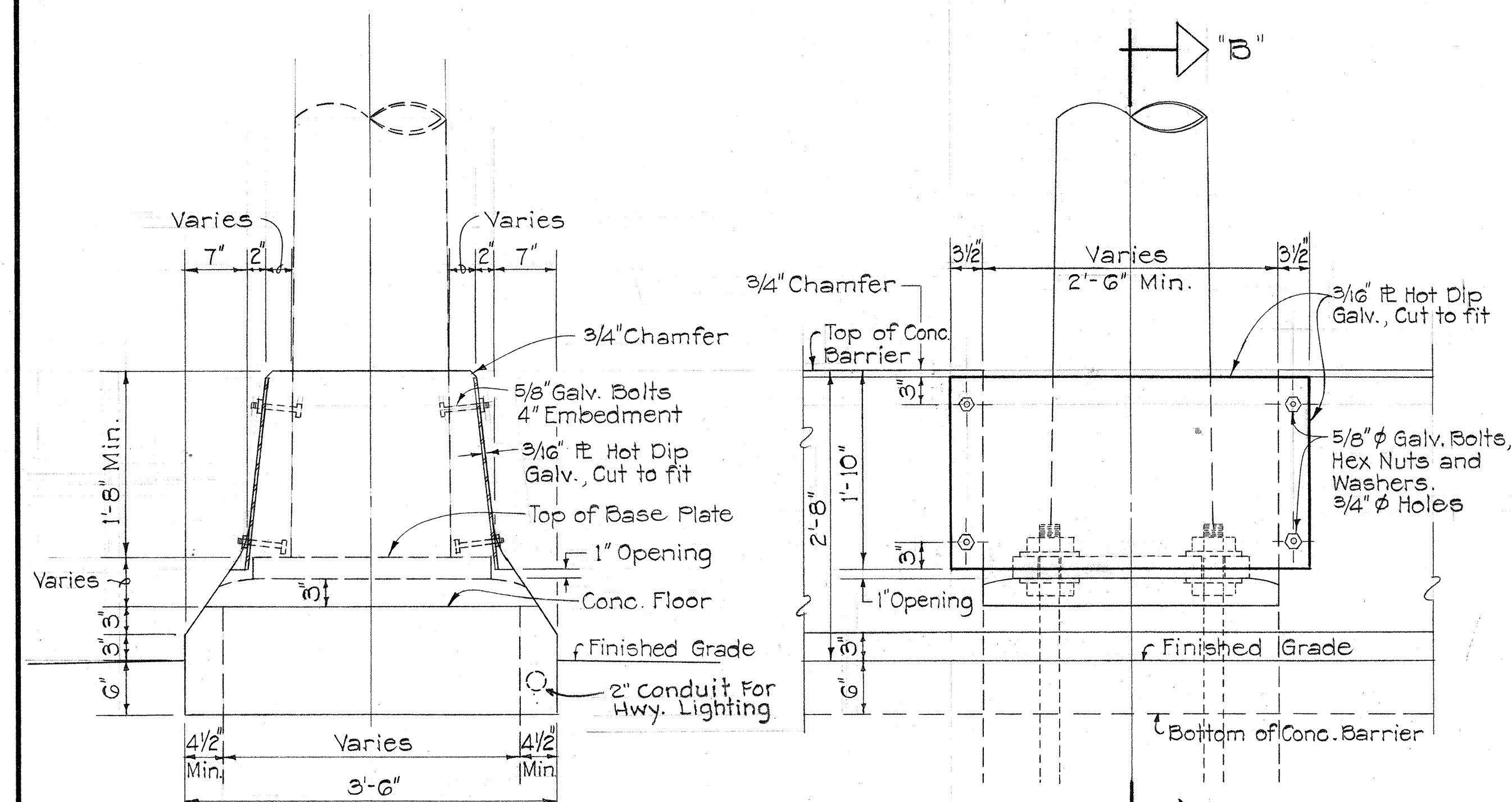
Revised: April 1, 1969
April 7, 1969



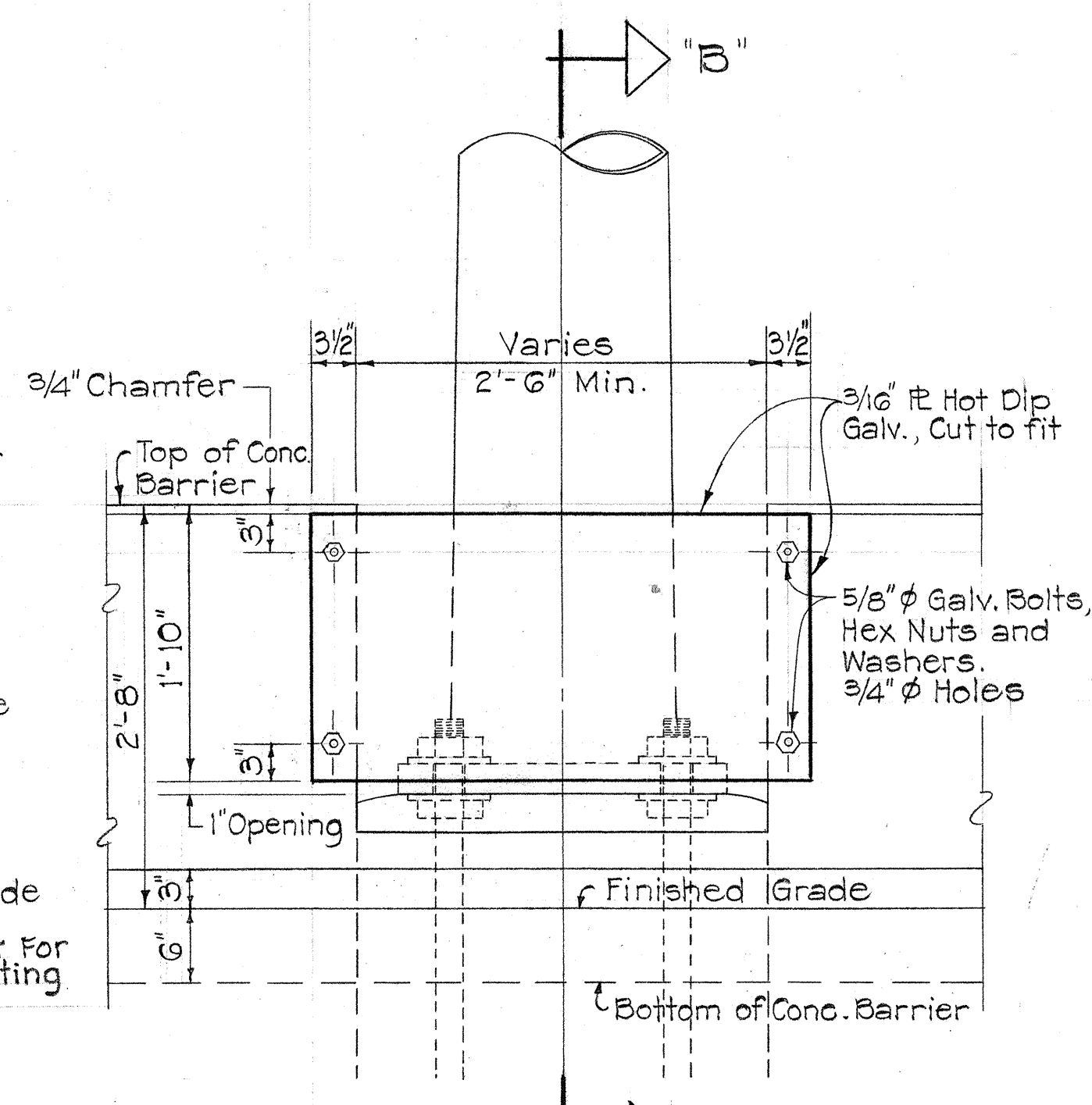
PLAN



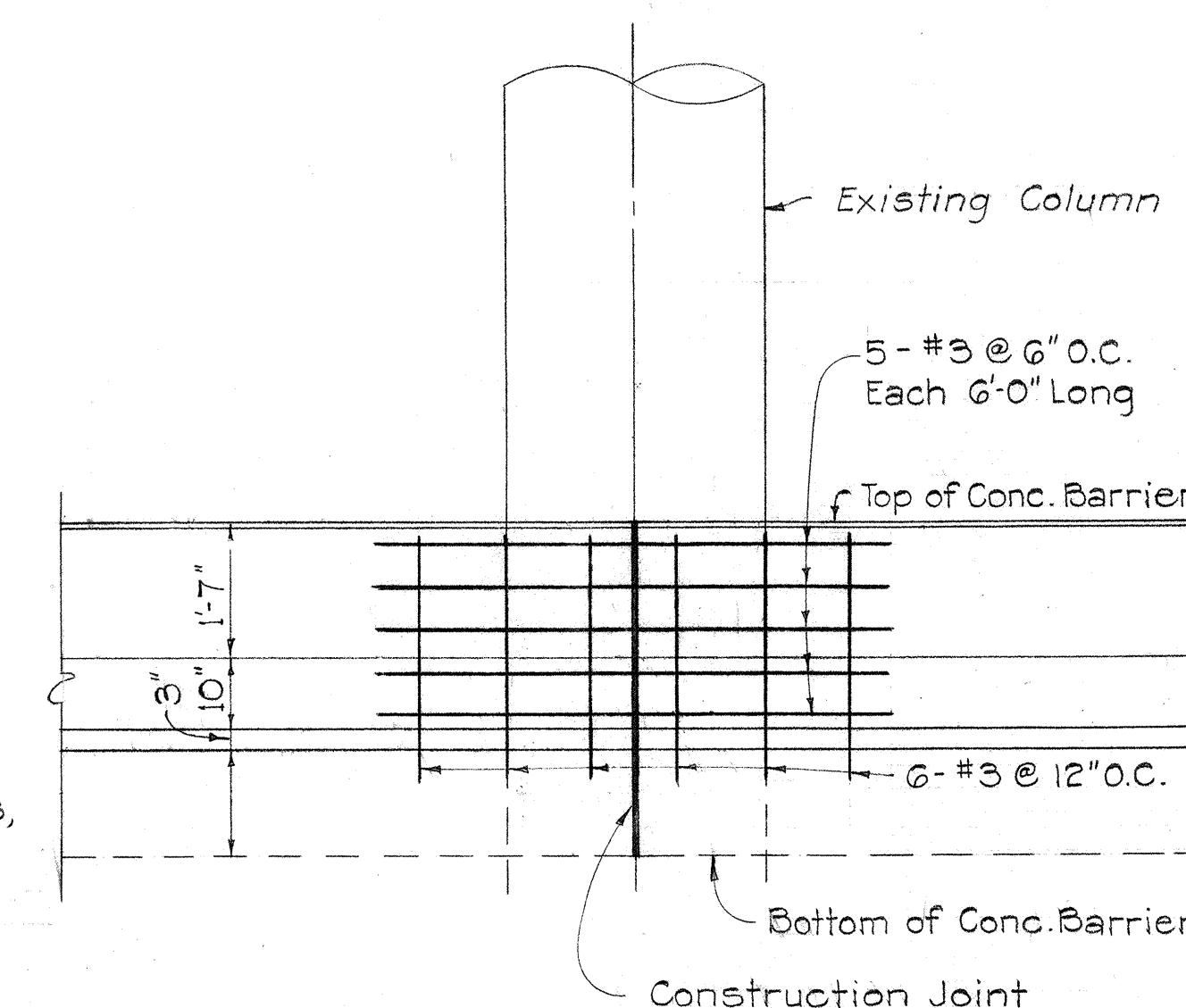
PLAN



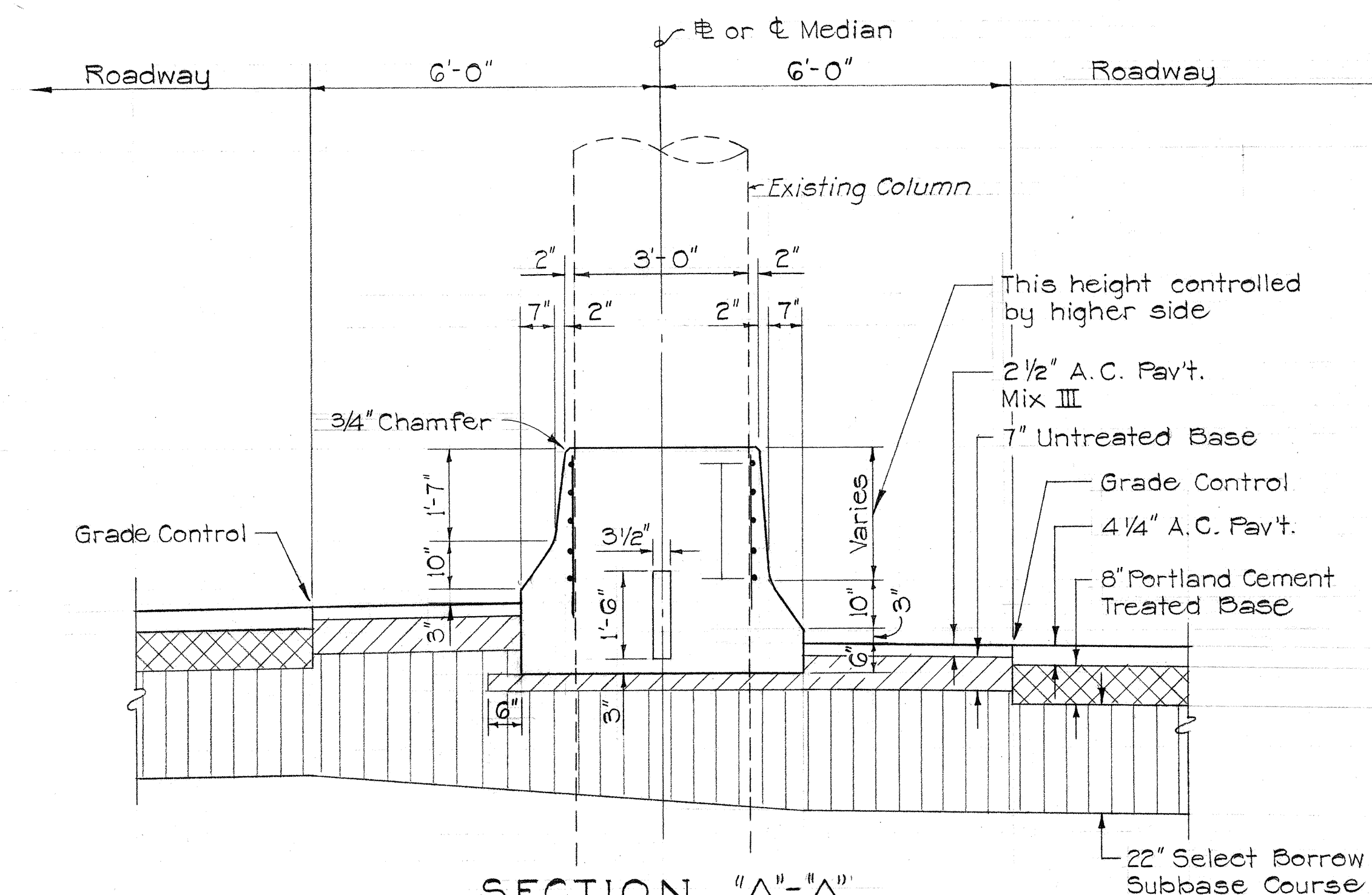
SECTION "B"-B"



ELEVATION



ELEVATION



SECTION "A"- "A"

TYPE "A" CONCRETE BARRIER

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

TYPE "C" CONCRETE BARRIER AT EXPRESSWAY SIGN POLE

Scale : 1" = 1'-0"

- NOTES :**
1. Constructing Concrete Barrier for Expressway Sign Pole shall consist of all work and materials necessary for constructing the 6'-0" Concrete Barrier section as shown on the plans. The work shall include furnishing & installing cover plate, nuts, bolts and all other appurtenances, and labor including galvanizing, as shown and necessary to complete the work.
 2. The length of the Steel Plate shall be determined in the field.
 3. Refer to PLAN, TYPE "A" CONCRETE BARRIER for transition details of Type "C" Concrete Barrier at Expressway Sign Pole.

THIS SHEET IS A SUPPLEMENT
TO THE CONTRACT PLANS

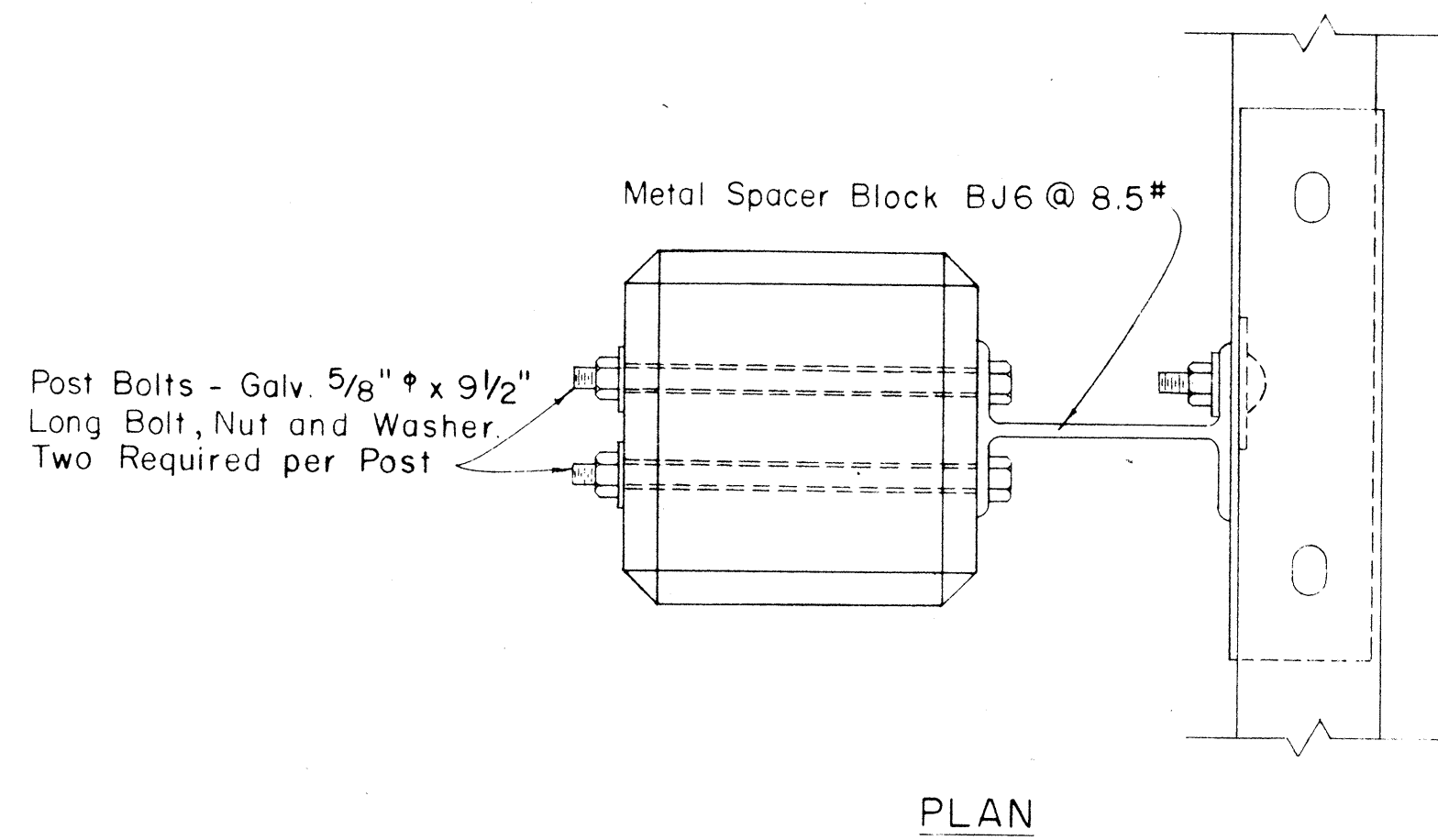
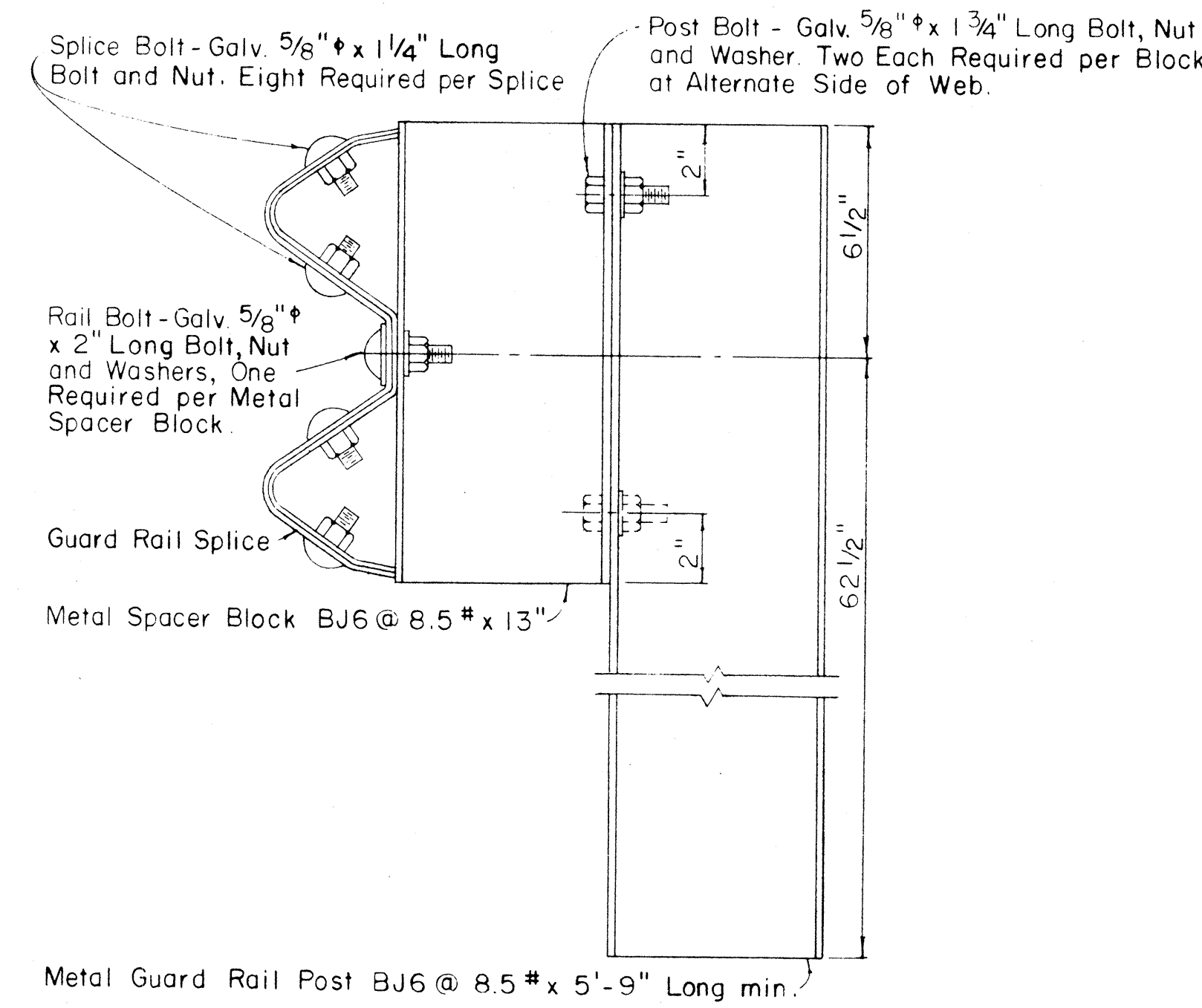
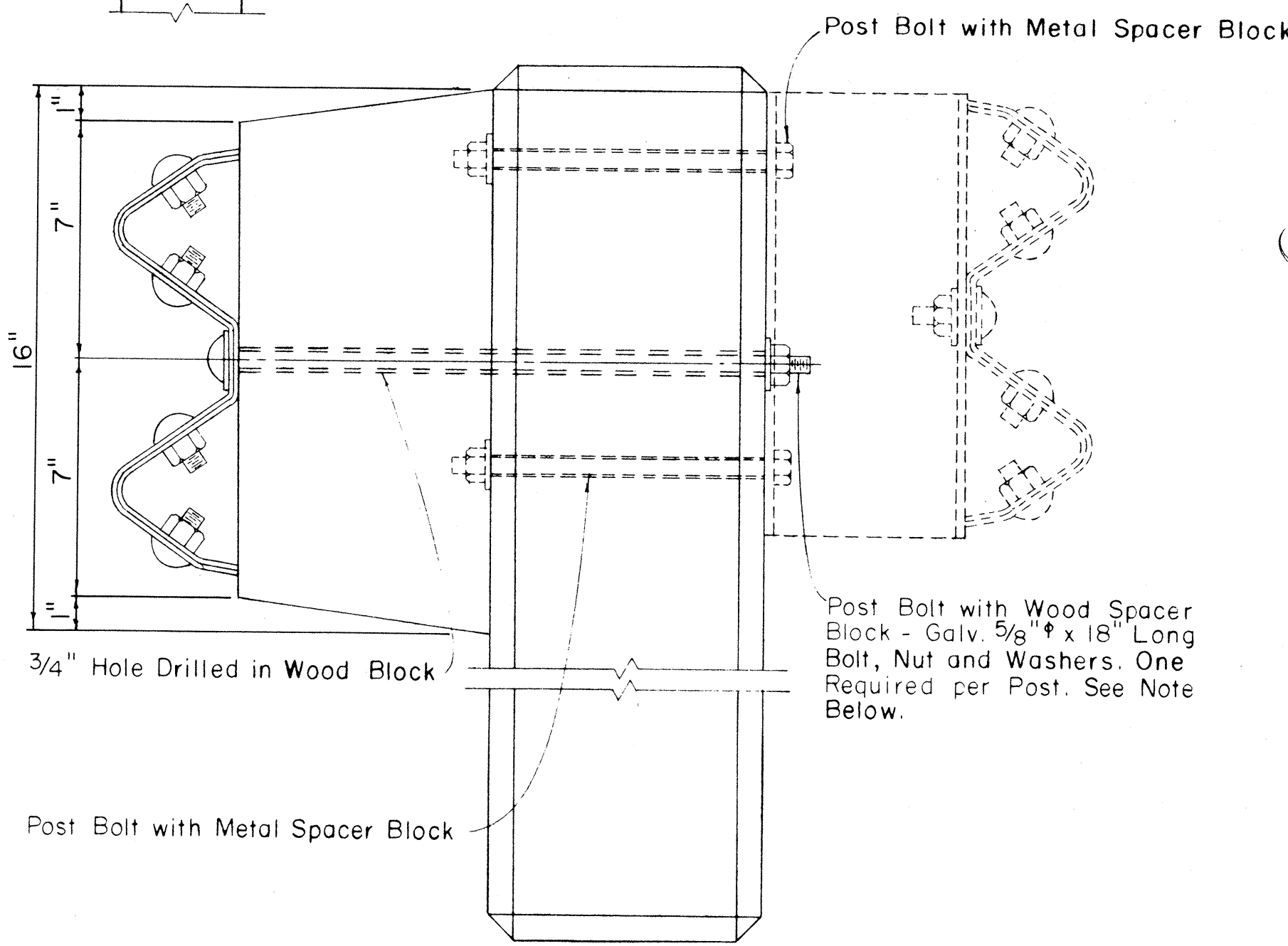
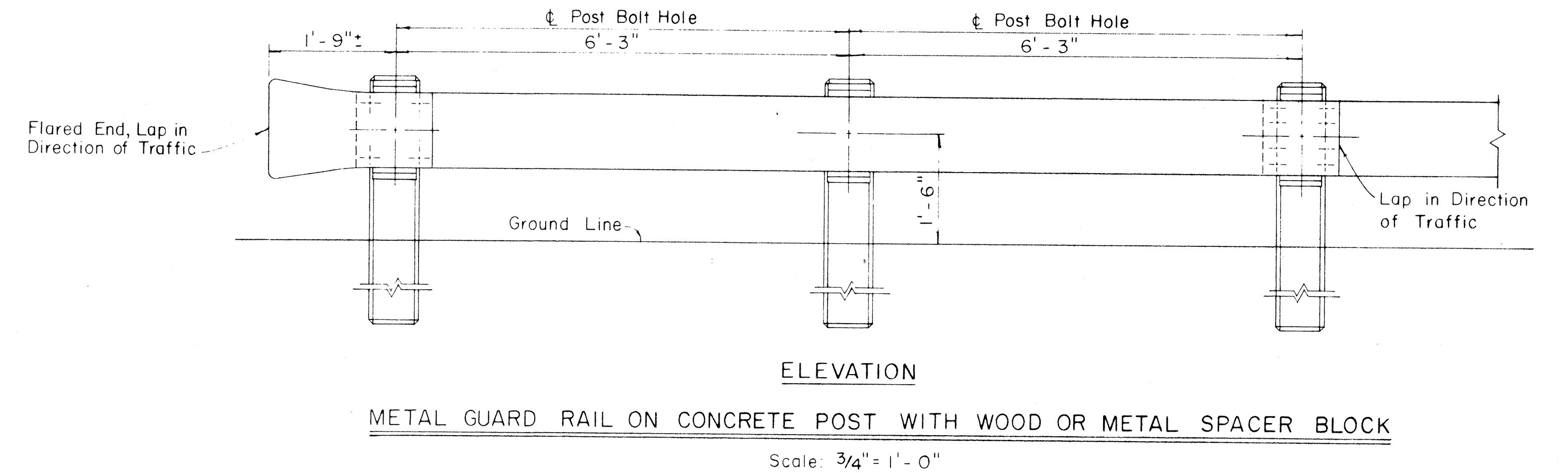
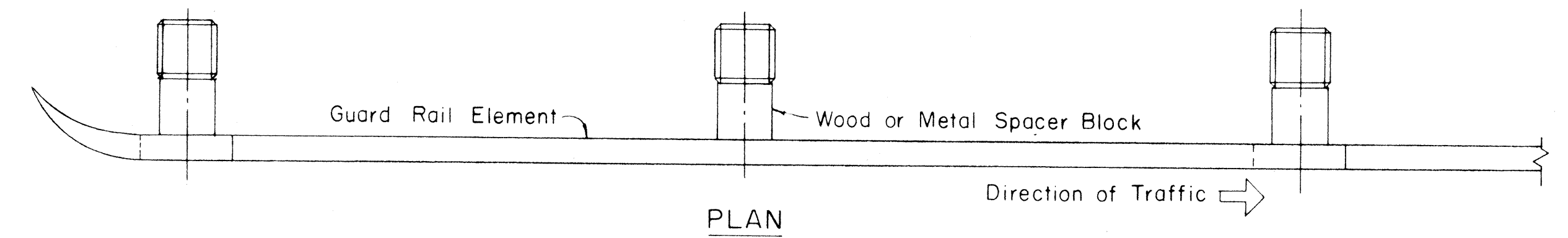
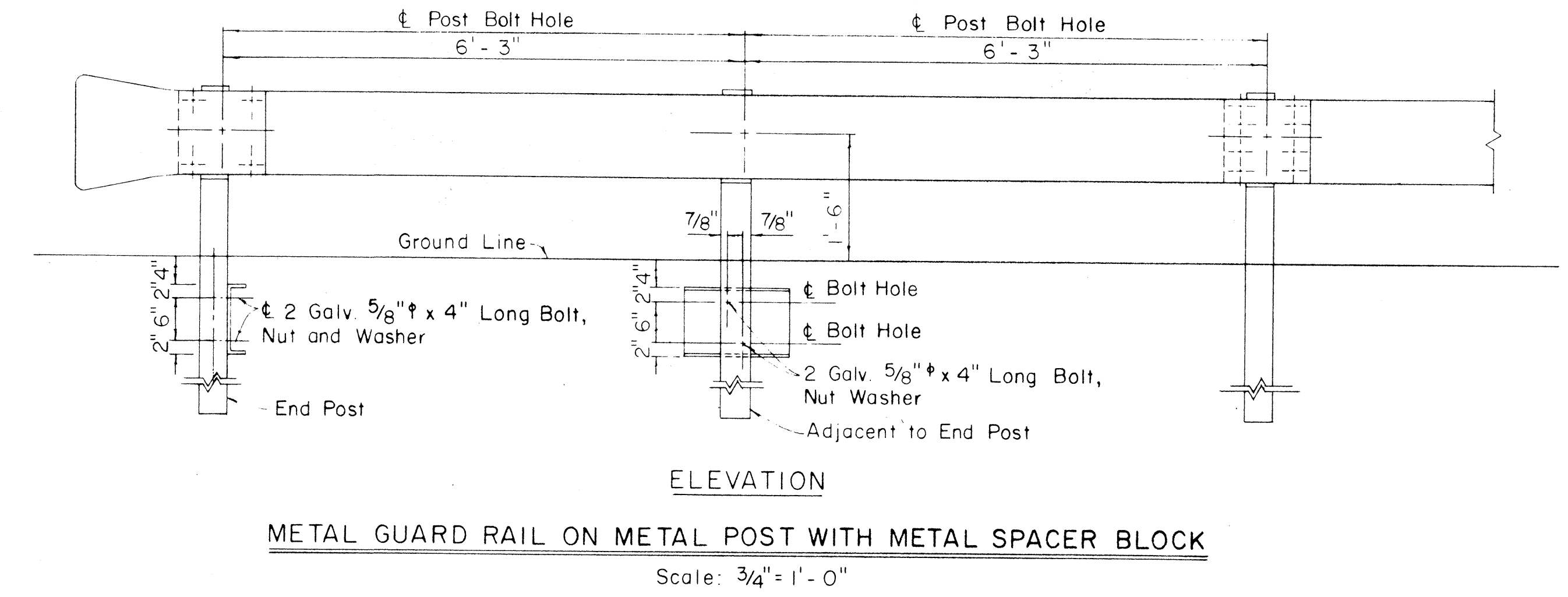
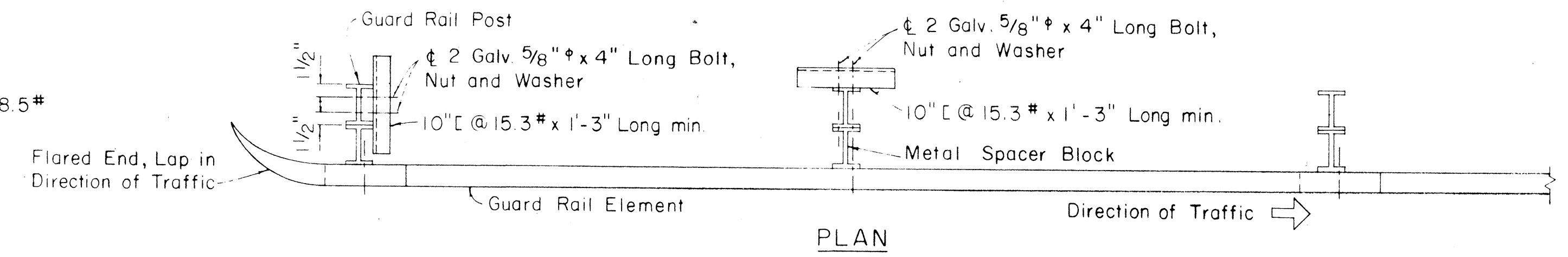
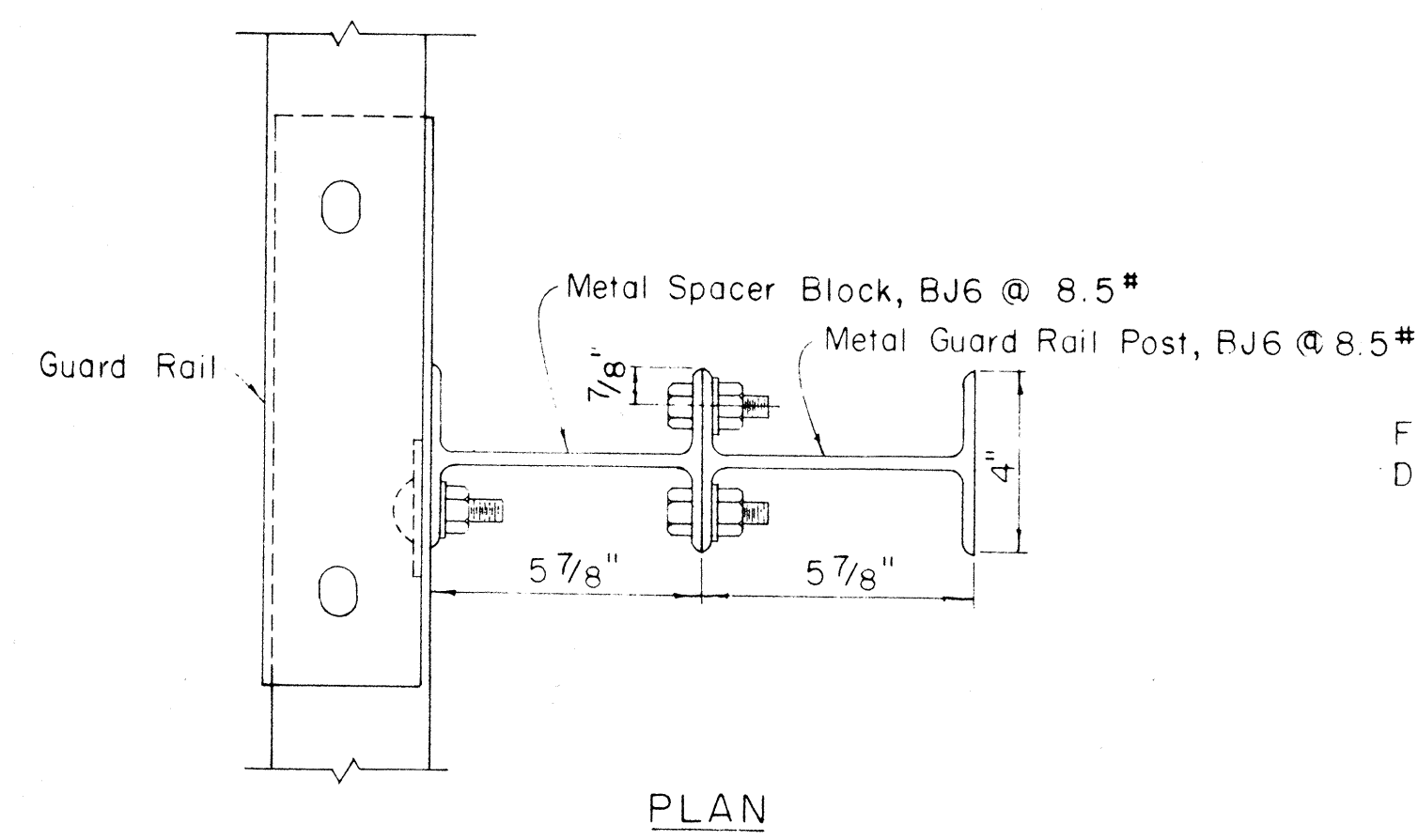
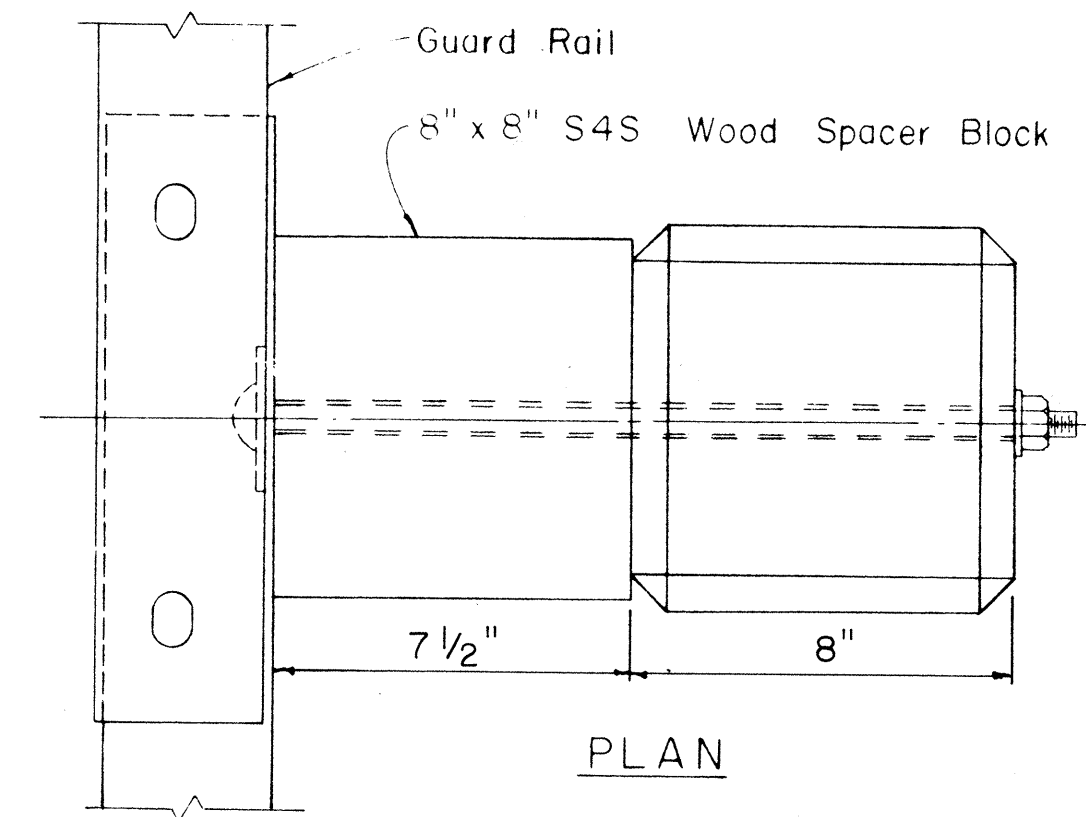
**STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION**

INTERSTATE ROUTE H-1
Victoria St. to Keeaumoku St.
F.A.I. Proj. No. I-H1-1(31), Unit 2

Scale: As Shown Date: Aug., 1968

SHEET No. OF SHEETS

C O N S I D E R



SINGLE METAL GUARD RAIL ON METAL POST WITH METAL SPACER BLOCK
Scale: 3" = 1' - 0"

SINGLE METAL GUARD RAIL ON PRECAST CONCRETE POST WITH WOOD OR METAL SPACER BLOCK
Scale: 3" = 1' - 0"

NOTE: Single Guard Rails Shown. For Double Guard Rails Additional Spacer Blocks and Rail Elements Required on Opposite Side of Posts. See Bolt Schedule for Required Bolt Lengths.

DETAILS FOR SINGLE GUARD RAIL

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

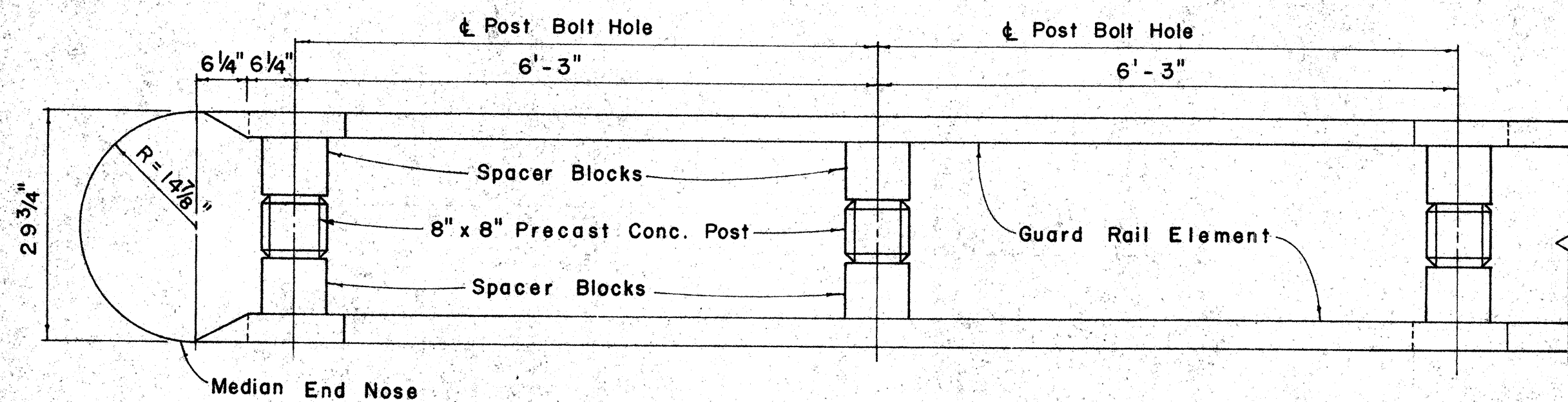
STANDARD DETAILS

METAL GUARD RAIL

Scale: as noted Date: April, 1967

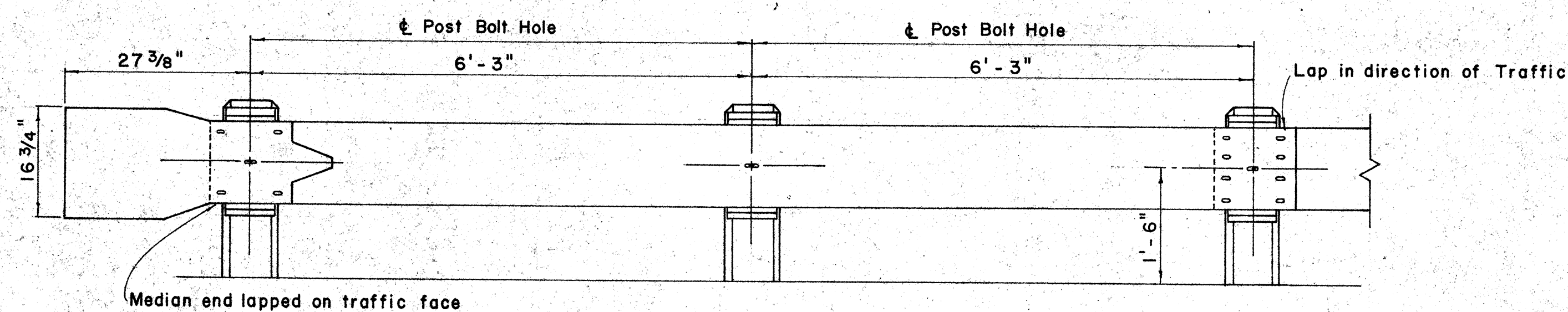
SHEET No. 6 OF 9 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-111(81) UNIT 2	1967	25	217



PLAN

Scale: $\frac{3}{4}$ " = 1' - 0"

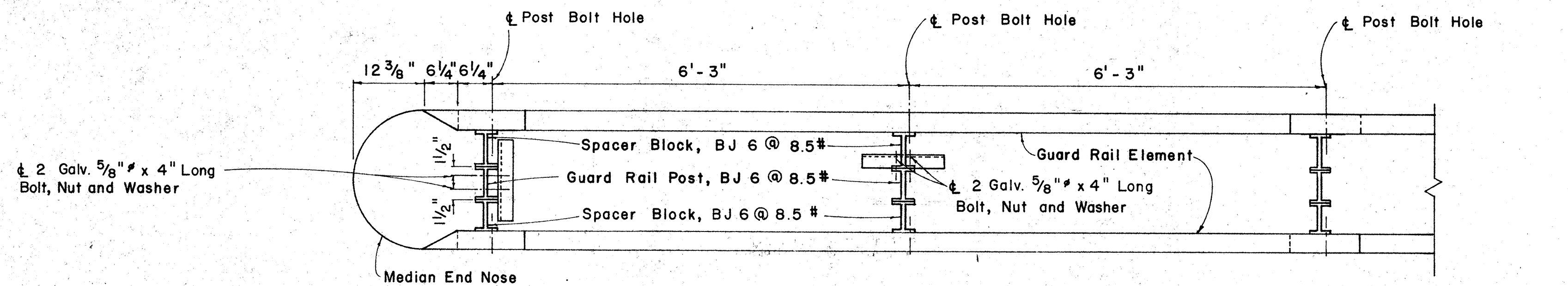


DIRECTION OF TRAFFIC →

ELEVATION

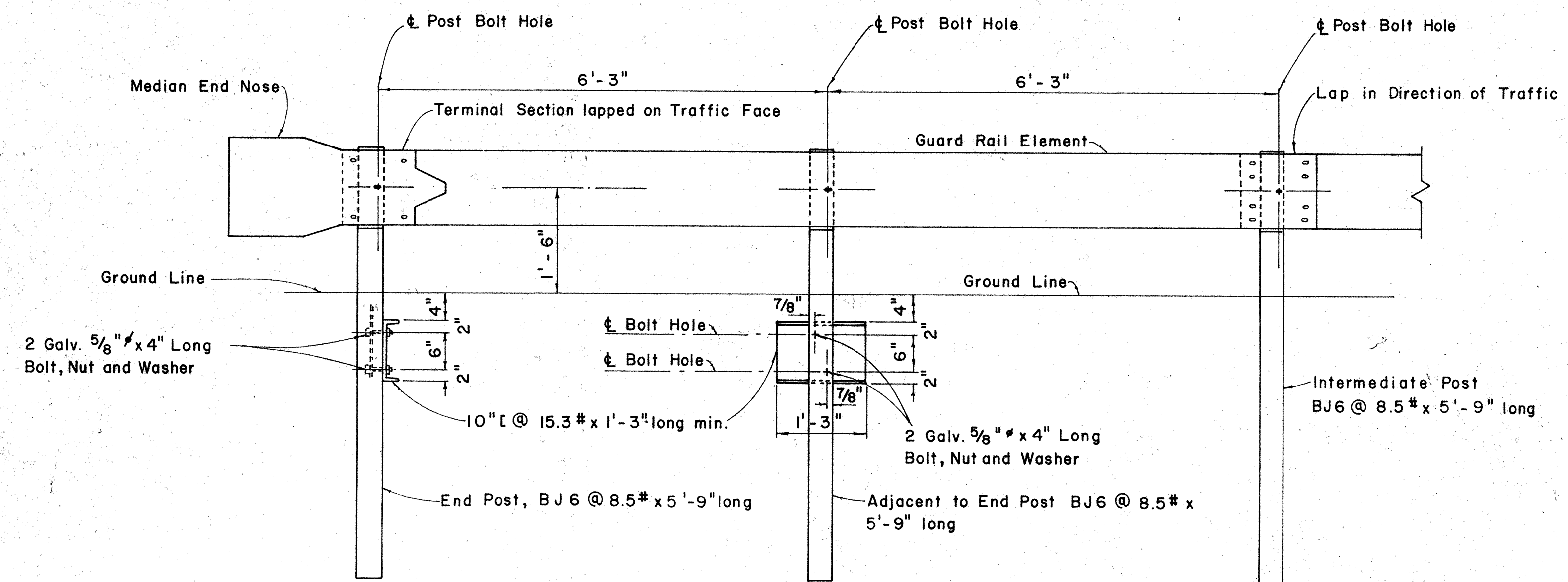
METAL GUARD RAIL ON CONCRETE POSTS AND WOOD SPACER BLOCKS

Scale: $\frac{3}{4}$ " = 1' - 0"



PLAN

Scale: $\frac{3}{4}$ " = 1' - 0"



ELEVATION

METAL GUARD RAIL ON METAL POSTS AND METAL SPACER BLOCKS

Scale: $\frac{3}{4}$ " = 1' - 0"

DETAIL FOR DOUBLE METAL GUARD RAIL IN MEDIAN

Scale: As Shown

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

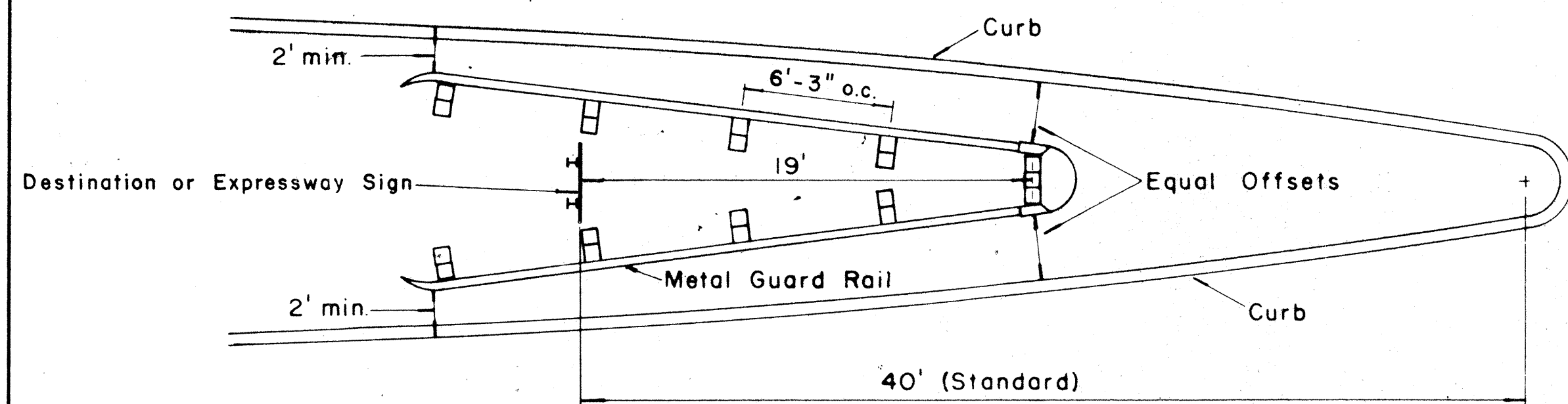
STANDARD DETAILS
METAL GUARD RAIL

Scale: As Noted Date: April, 1967

SHEET No. 7 OF 9 SHEETS

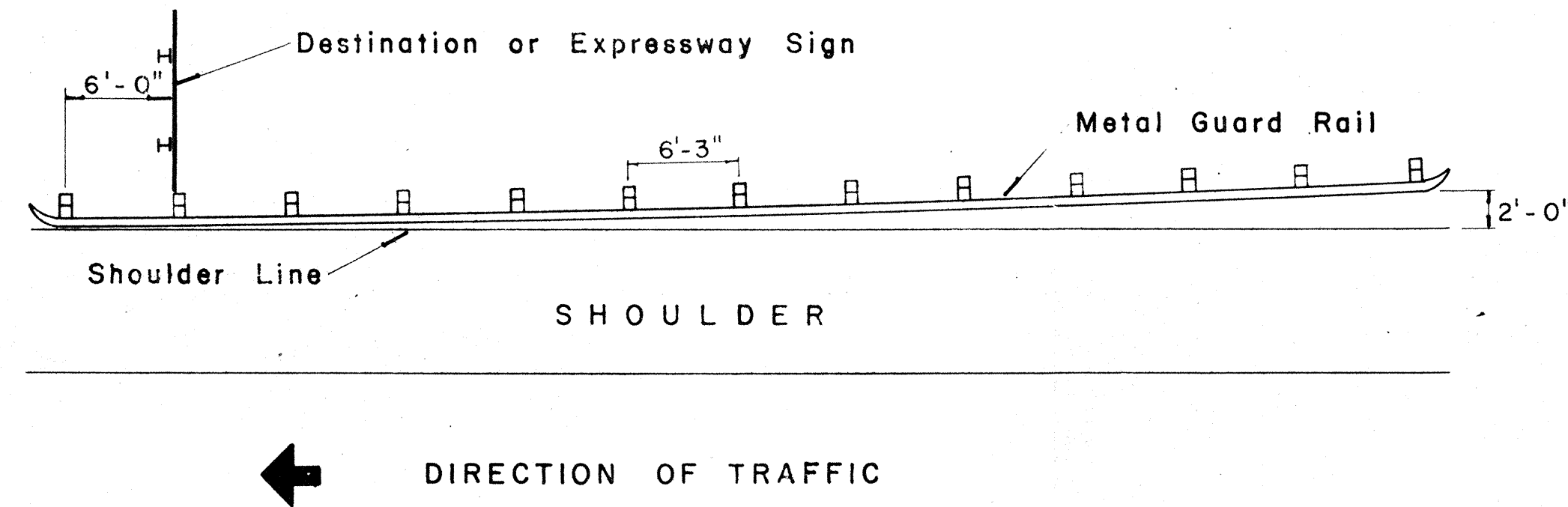
25

ORIGINAL PLAN	DESIGNED BY	CHECKED BY
NOTE BOOK	QUANTITIES BY	
No.		



GORE MOUNTED SIGN

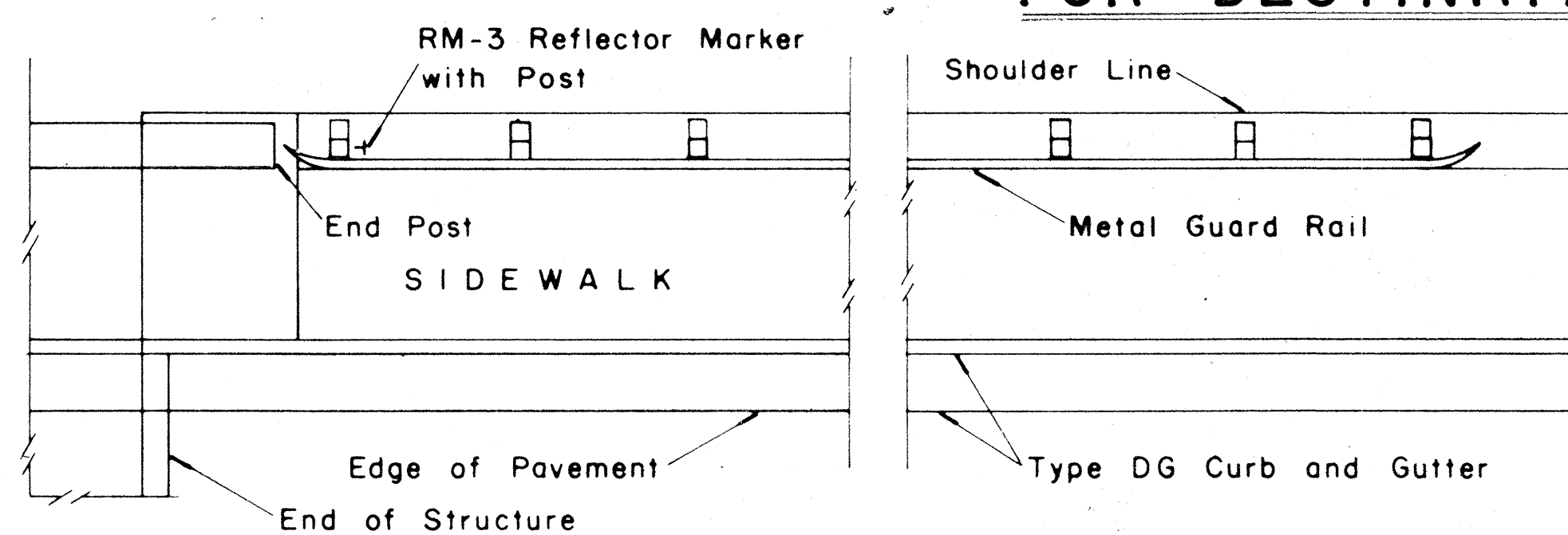
Scale: $\frac{3}{16}'' = 1' - 0''$



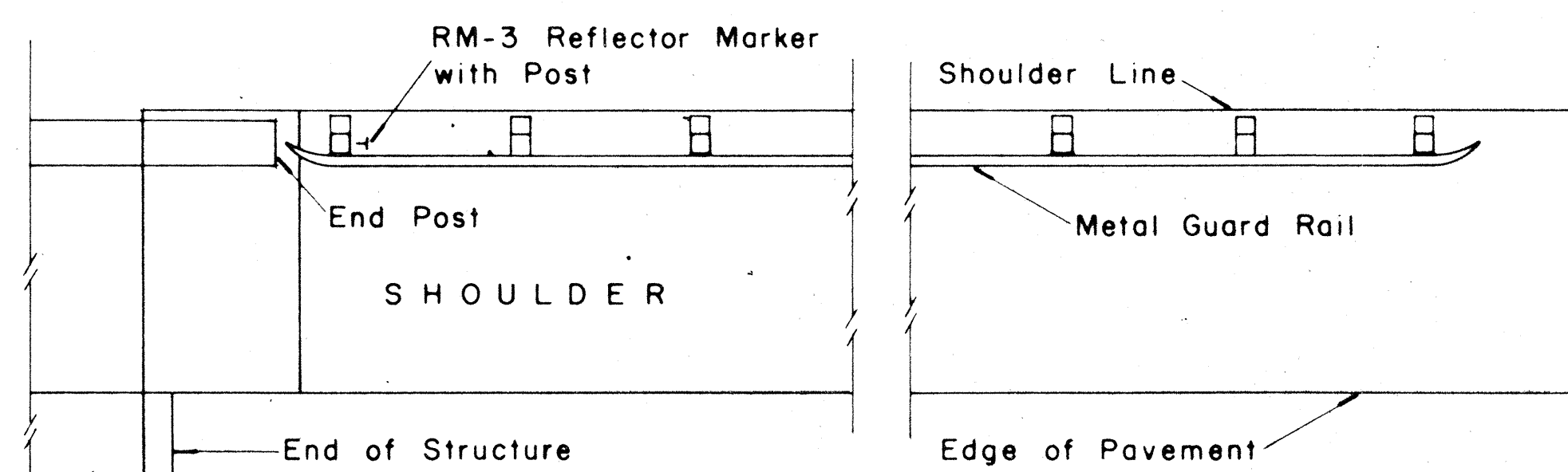
SHOULDER MOUNTED SIGN

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

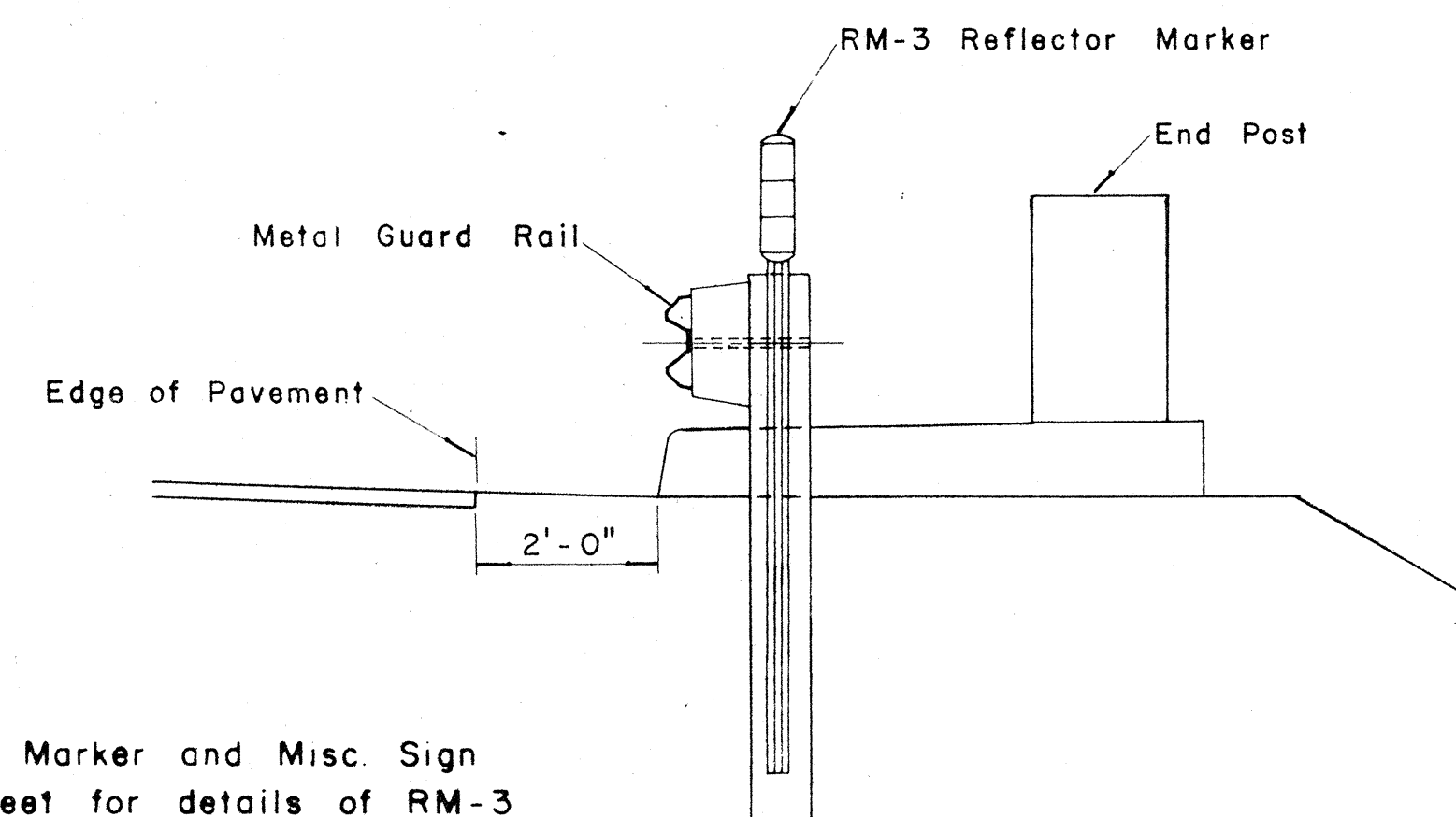
INSTALLATION OF METAL GUARD RAIL FOR DESTINATION AND EXPRESSWAY SIGNS



SIDEWALK CARRIED THROUGH STRUCTURE



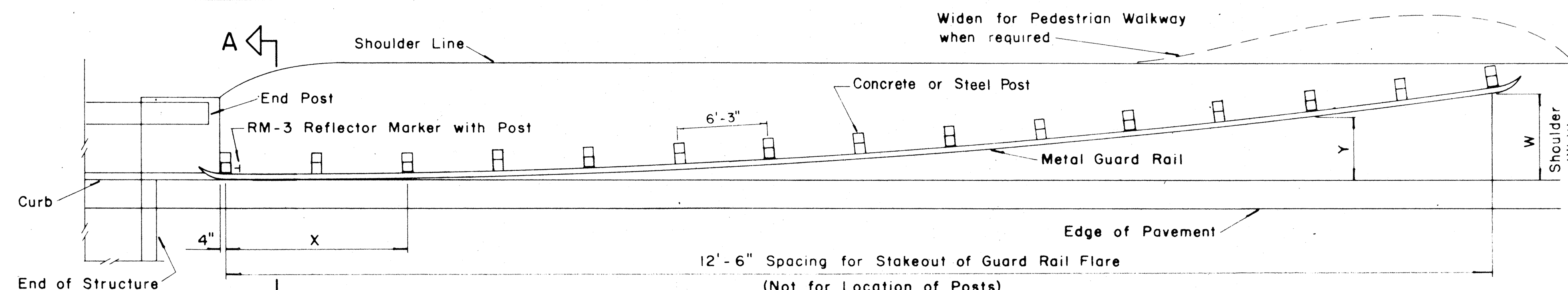
SHOULDER CARRIED THROUGH STRUCTURE



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.



SHOULDER NOT CARRIED THROUGH STRUCTURE

INSTALLATION OF METAL GUARD RAIL FLARE AT STRUCTURES

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

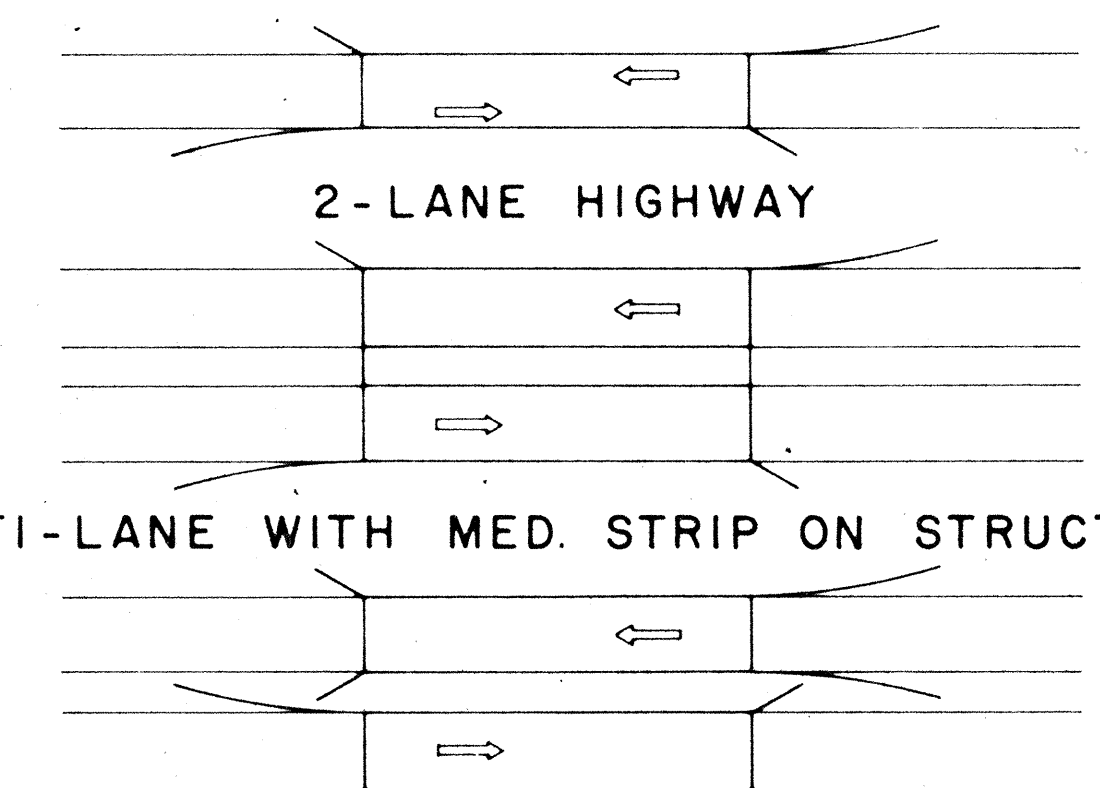
X	Y					
	W=3'	W=4'	W=5'	W=6'	W=7'	W=8'
12.5	0.19	0.16	0.14	0.12	0.09	0.08
25.0	0.75	0.64	0.55	0.49	0.35	0.32
37.5	1.69	1.44	1.25	1.10	0.78	0.72
50.0	3.00	2.56	2.22	1.96	1.38	1.28
62.5		4.00	3.47	3.06	2.16	2.00
75.0			5.00	4.41	3.11	2.85
87.5				6.00	4.23	3.92
100.0					5.53	5.12
112.5					7.00	6.48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

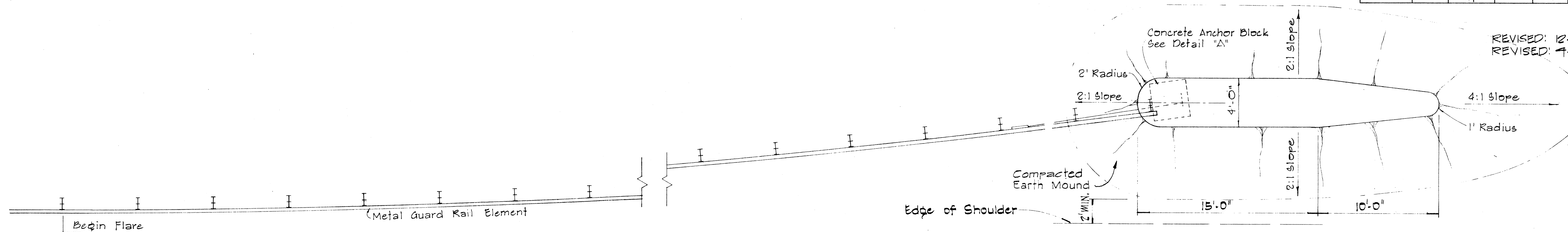
Scale: As Noted Date: April, 1967

SHEET No. 8 OF 9 SHEETS

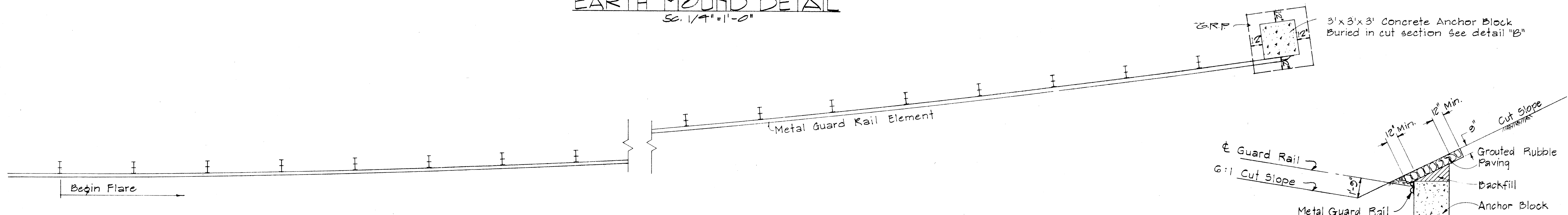
DATE
SURVEY PLOTTED BY
DRAWN BY
CHECKED BY
NOTE BOOK
QUANTITIES BY
CHECKED BY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	111-1(3) UNIT 2	1967	20	217

REVISED: 12-11-60
REVISED: 4-25-67

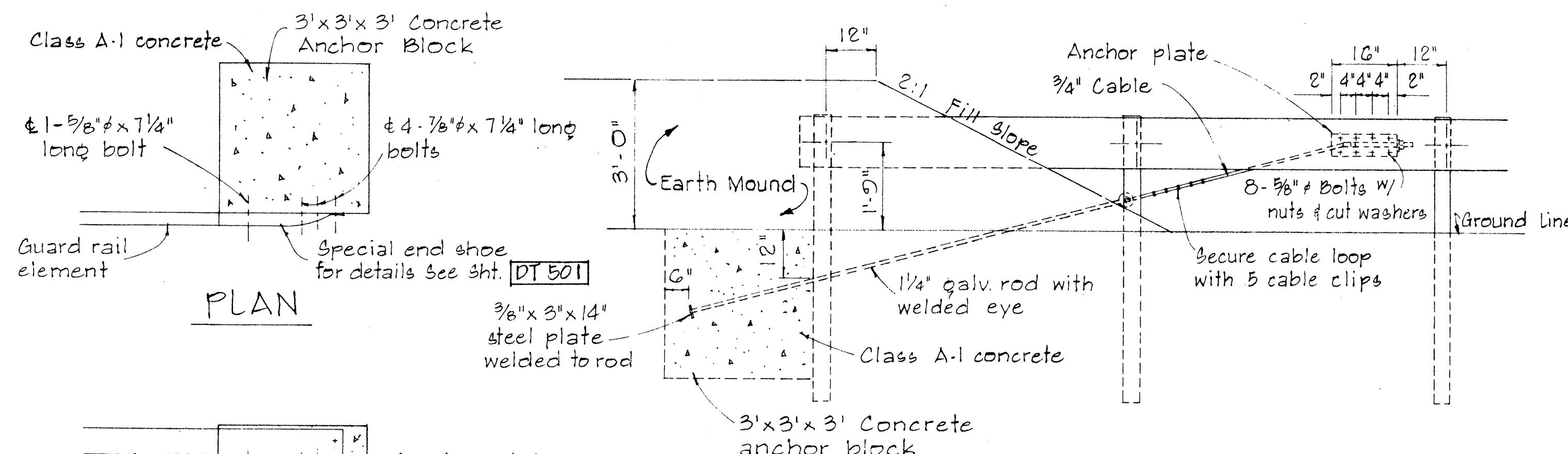


EARTH MOUND DETAIL
Scale: 1/4" = 1'-0"

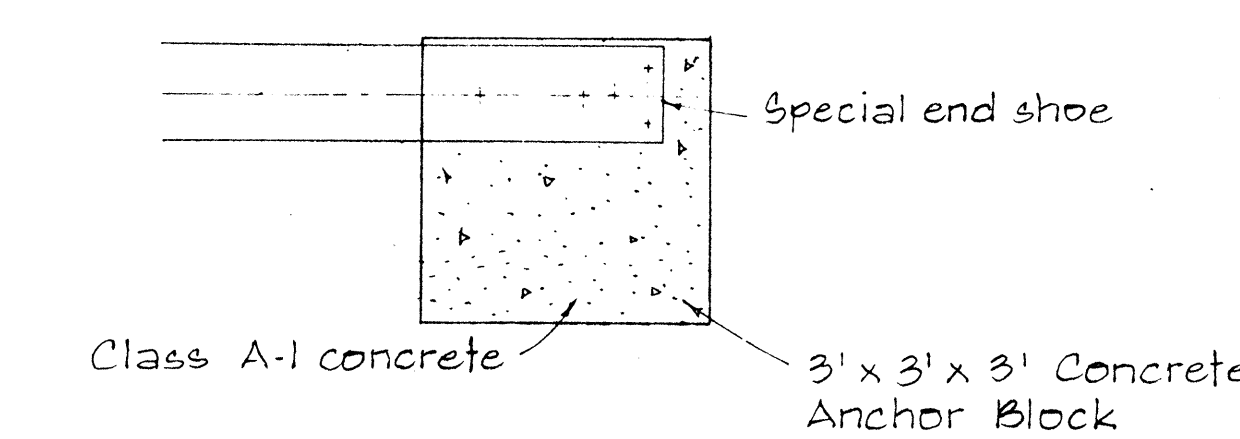


ANCHOR BLOCK IN CUT SECTION
Scale: 1/4" = 1'-0"

DETAIL "B"
Not to Scale



PLAN

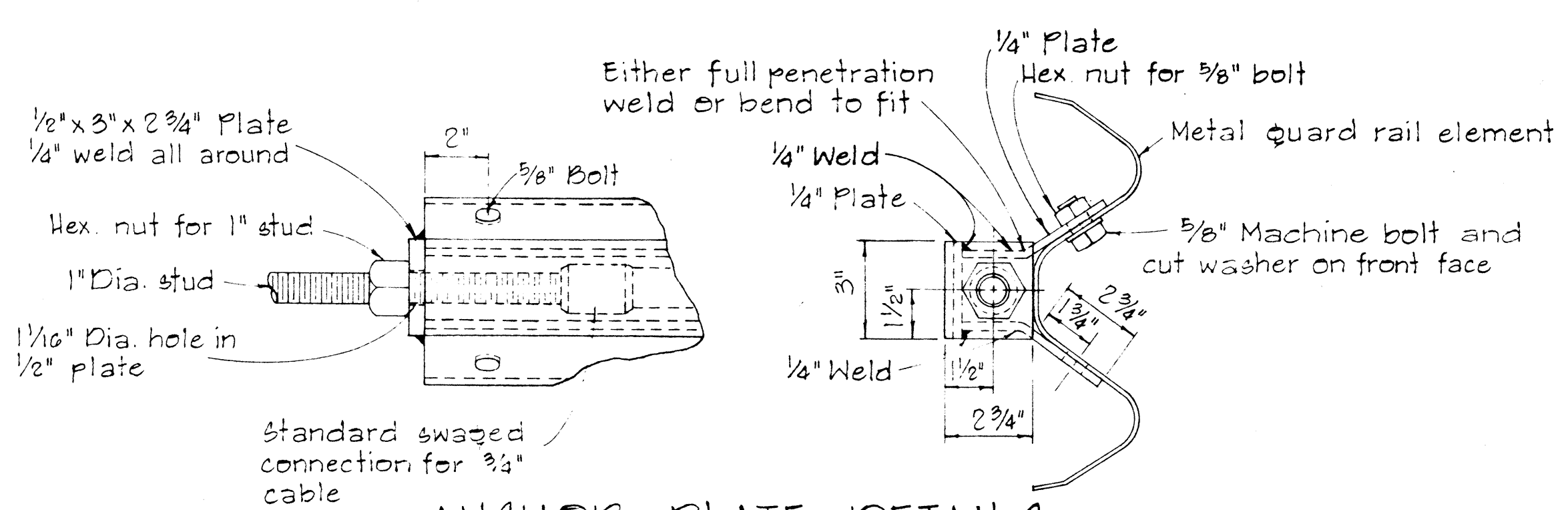


ELEVATION

ANCHOR BLOCK DETAIL
Scale: 1/2" = 1'-0"

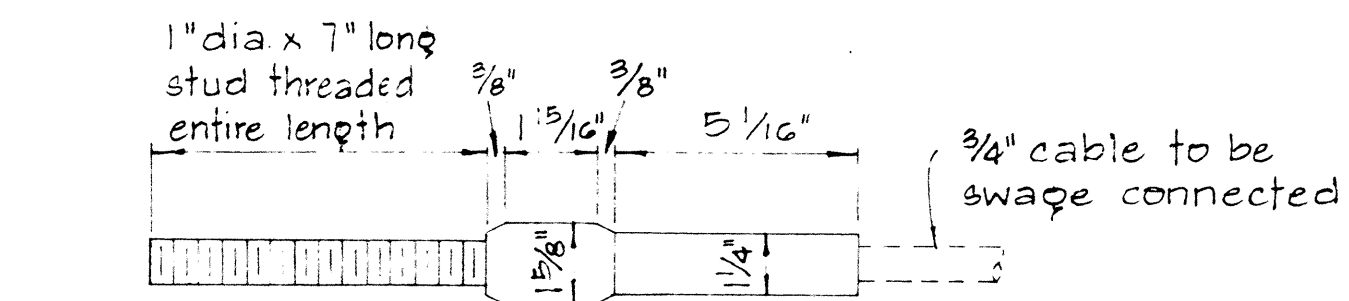
DETAIL "A"
Scale: 1/2" = 1'-0"

- NOTE:**
1. Galvanized Anchor Rod, Metal Guard Rail and Post buried in ground shall be covered with coat of coal tar enamel.
 2. Concrete, GRP, Excavation, Earth Mound, Anchor Rods, and Miscellaneous Appurtenances necessary to anchor the Guard Rail Ends, shall be incidental to the Metal Guard Rail.



ANCHOR PLATE DETAILS

Scale: 1" = 3'



STANDARD SWAGED FITTING AND STUD

Scale: 1" = 3'

NOTE:
THIS SHEET IS A SUPPLEMENT TO THE CONTRACT DRAWINGS.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**STANDARD DETAILS
EARTH MOUND AND
ANCHOR BLOCK DET.**

Scale: As Shown

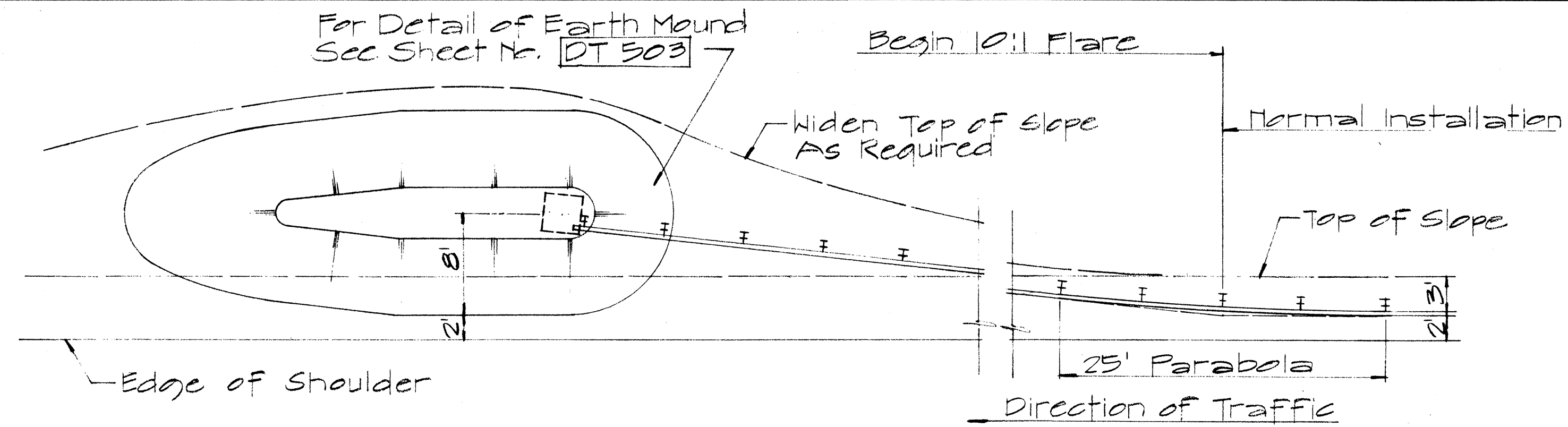
Nov. 1968

SHEET No. OF SHEETS DT 503

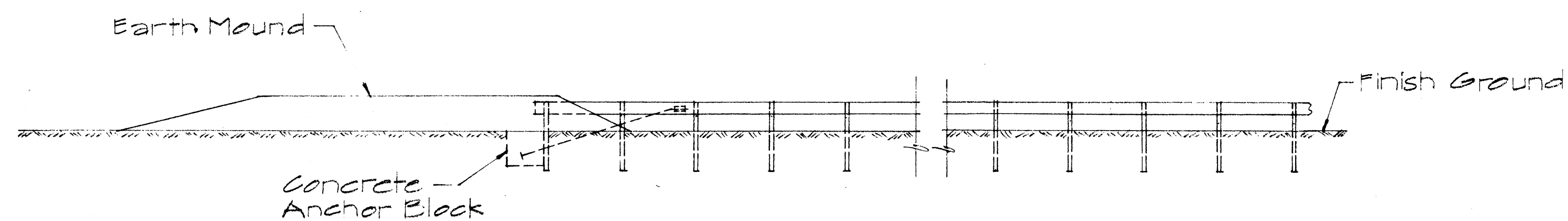
C O 26 S - 1

CO 26 S - 1

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-HI-1(31) UNIT 2	1967	217	217

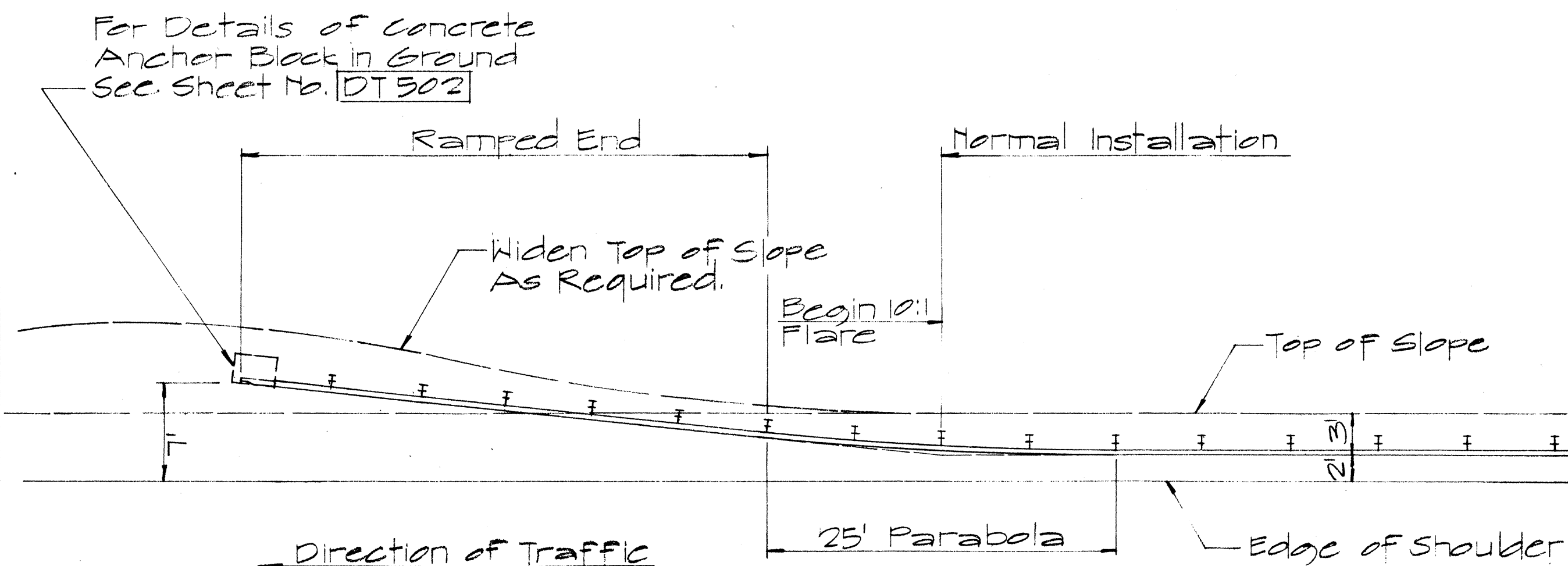


PLAN

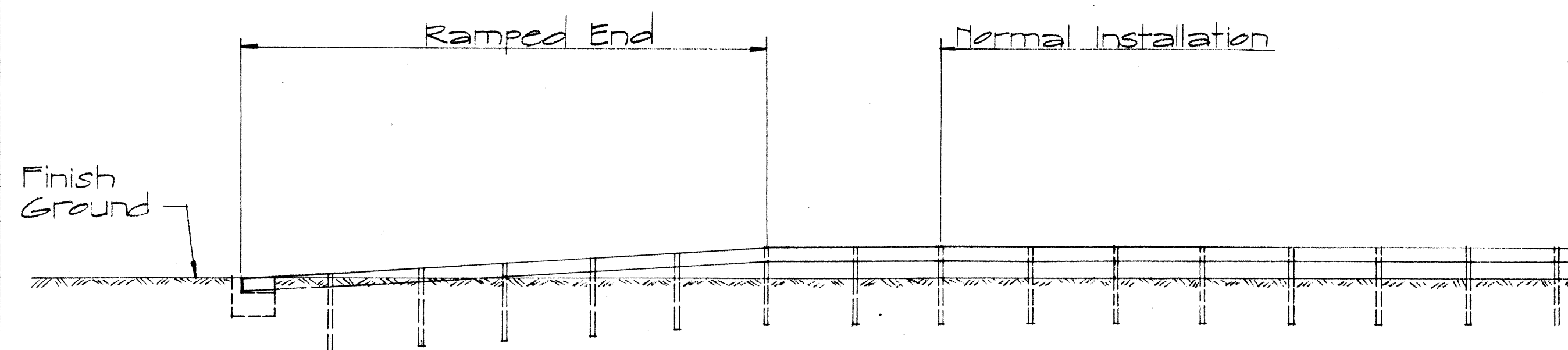


ELEVATION

TYPE "D" FLARE
Sc. 1/8" = 1'-0"

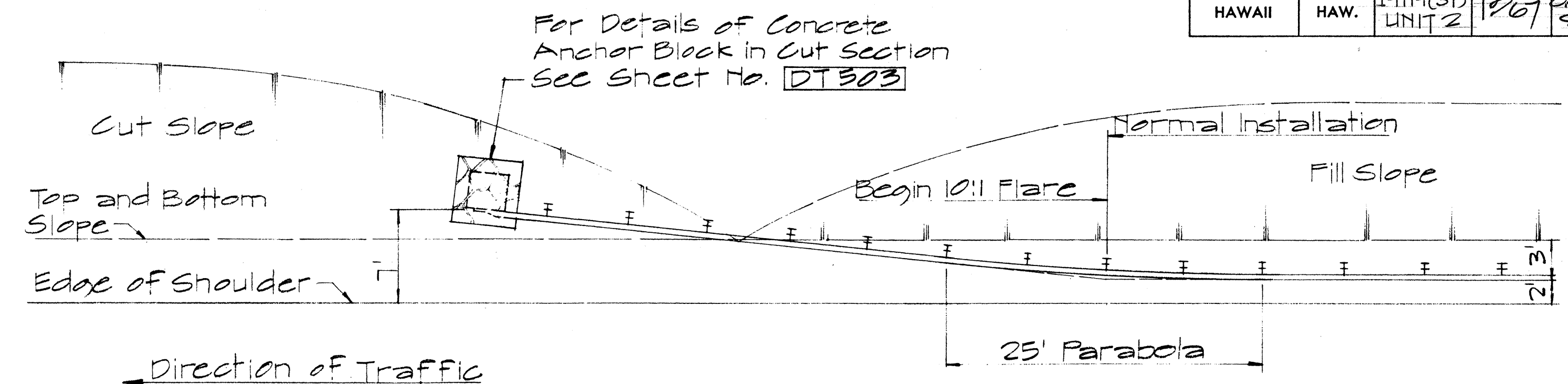


PLAN

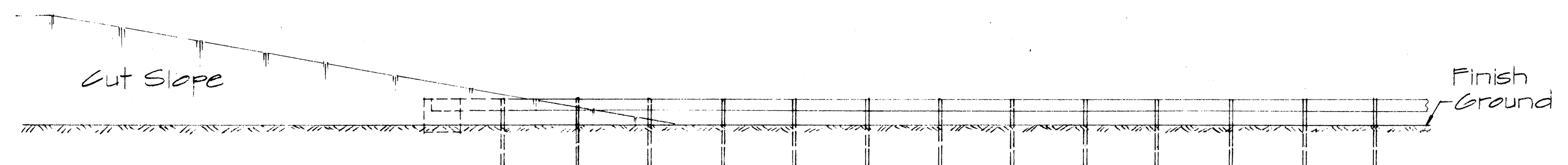


ELEVATION

TYPE "E" FLARE
Sc. 1/8" = 1'-0"

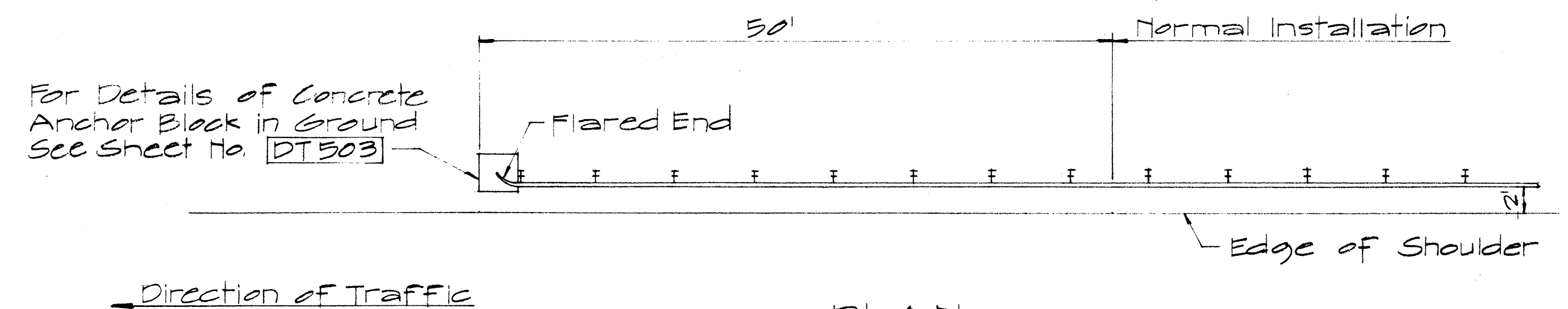


PLAN

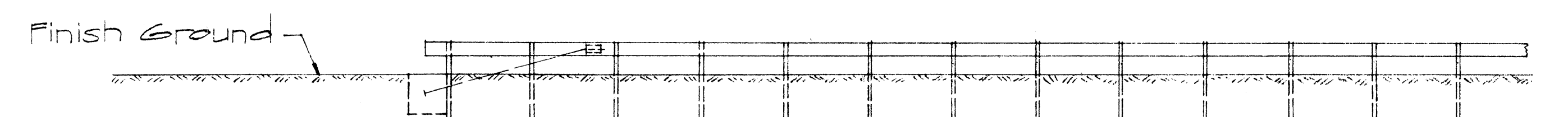


ELEVATION

TYPE "F" FLARE
Sc. 1/8" = 1'-0"

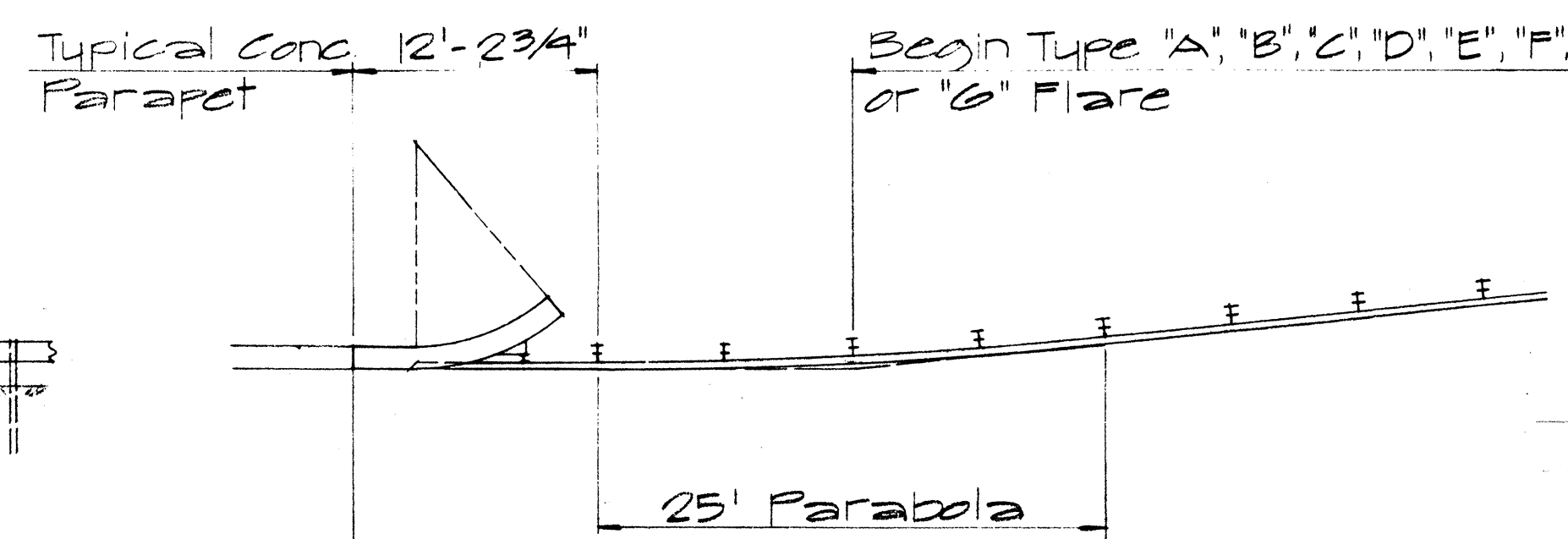


PLAN



ELEVATION

TYPE "G" FLARE
Sc. 1/8" = 1'-0"



TYPICAL LAYOUT PLAN OF
END POST CONNECTION
Sc. 1/8" = 1'-0"

NOTE!
THIS SHEET IS A
SUPPLEMENT TO THE
CONTRACT DRAWINGS.

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION	
STANDARD DETAILS OF TRAILING END FLARE - ONE & TWO WAY ROADWAY	
Sc. As Noted	APRIL 1967
SHEET No. 26	OF SHEETS 217

CO 26 S-2
CO 76 S-2

DATE	_____
SURVEY PLATTED BY	_____
DRAWN BY	_____
REVIEWED BY	_____
NOTED BY	_____
CHECKED BY	_____
ORIGINAL PLAN	_____
NOTE BOOK	_____
No.	_____

