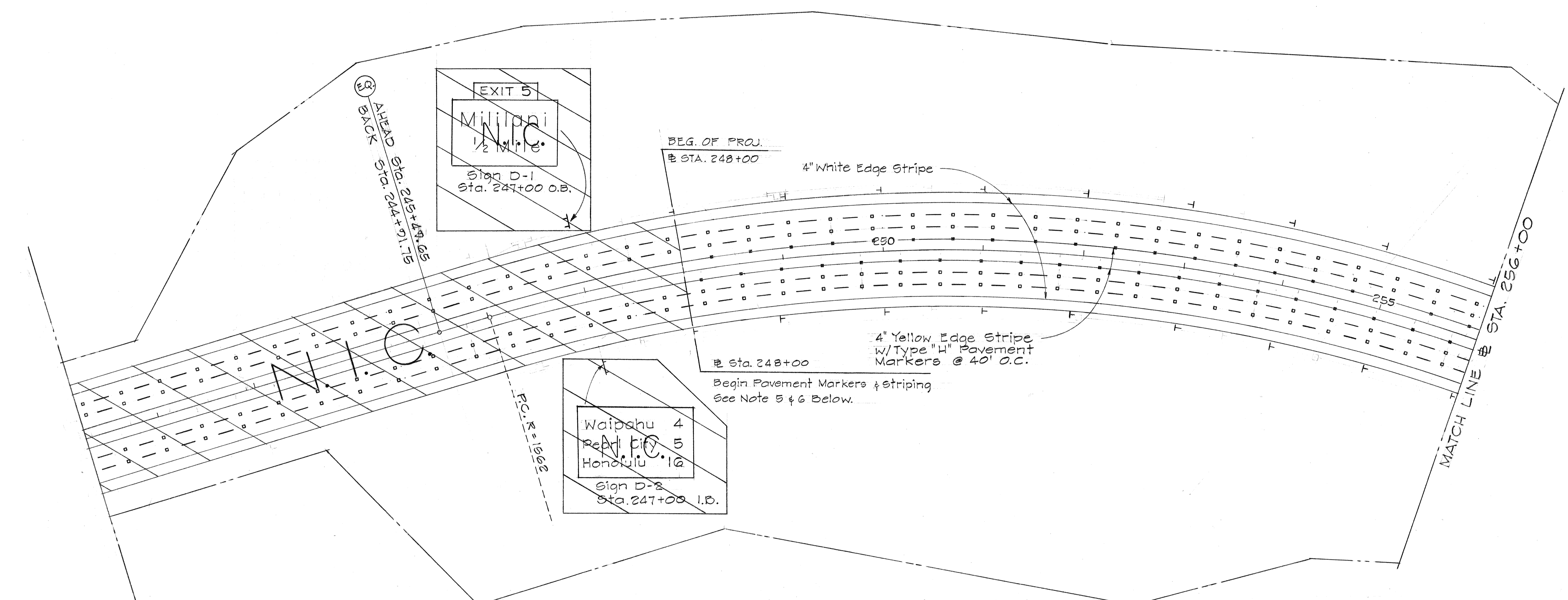


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(12):0	1973	64	171



### GENERAL NOTES

- All pavement striping shall be done by the contractor.
- Paint 4" edge stripe on edge of pavement lines @ Sta. 248+00 to 430+00 as specified on plans.
- Exact location of all regulatory and warning signs, expressway and destination signs, reflector markers, pavement markers, and pavement striping to be determined in the field by the Engineer.
- Milepost markers (D12-1) shall conform to Section 621 of the Standard Specifications.
- @ Sta. 241+25 to 248+00 Pavement markers and striping to be done under future project, Kipapa Bridge F.A.I. Proj. No. I-H2-1(9):4.
- Signs D-1 and D-2 also to be installed under F.A.I. Proj. No. I-H2-1(9):4.

### LEGEND

- ■ — 4" Yellow Edge stripe w/Type "H" Markers @ 40' O.C.
- □ — Type "A" & "C" Pavement Markers
- ⊥ RM-1
- ⊥ RM-2
- I Class I Barricade
- ⊥ Regulatory and Warning, Construction Sign w/Posts
- ⊥ Destination Sign (D)
- ⊥ Expressway Sign (E)
- ⊥ Class I Barricade

DATE	REVISION
6/5/74	Added Class I Barricade to Legend
5/17/73	Changed Barricade from Class I to Class II
5/17/73	Added Type "H" Pavement Markers

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

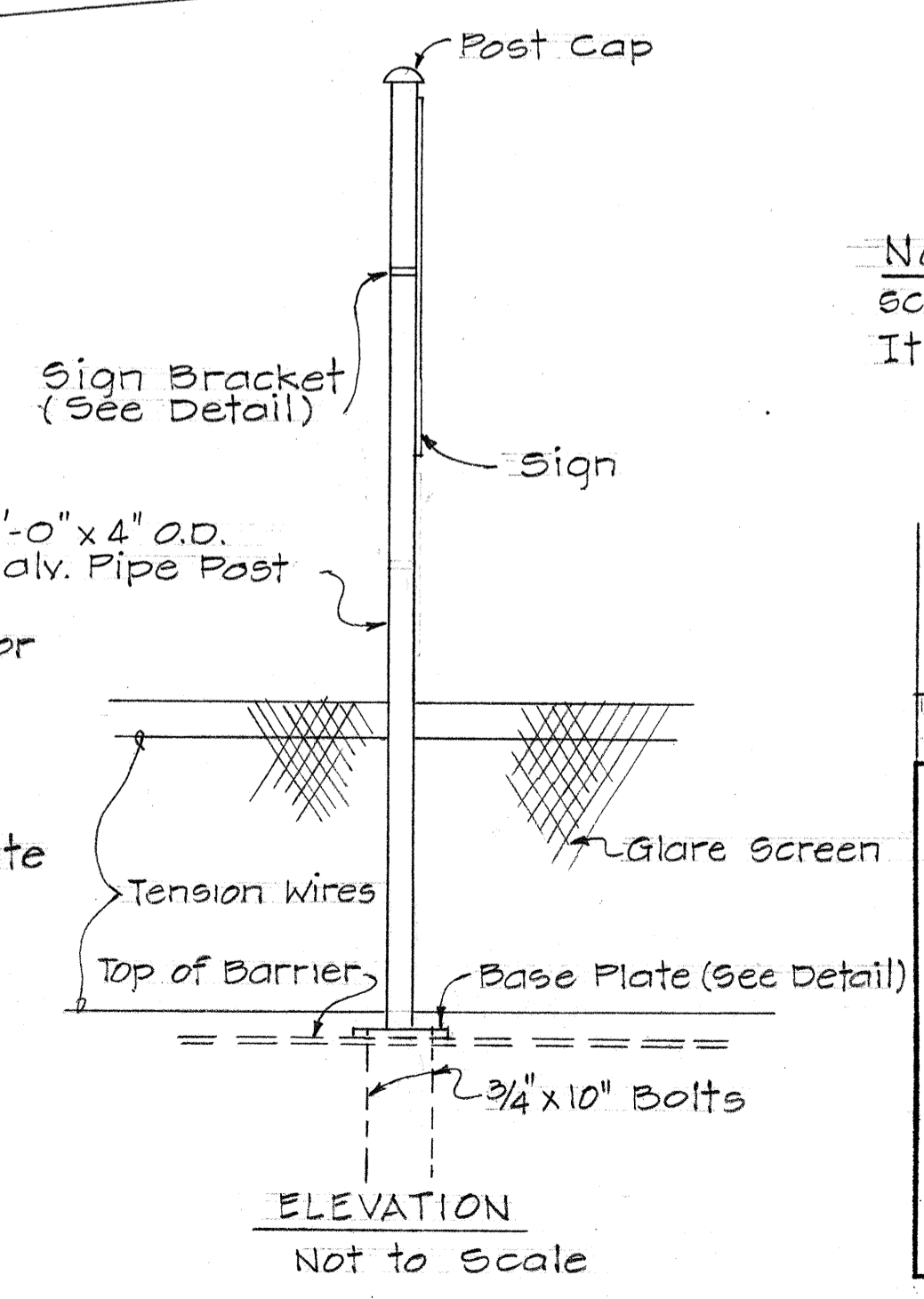
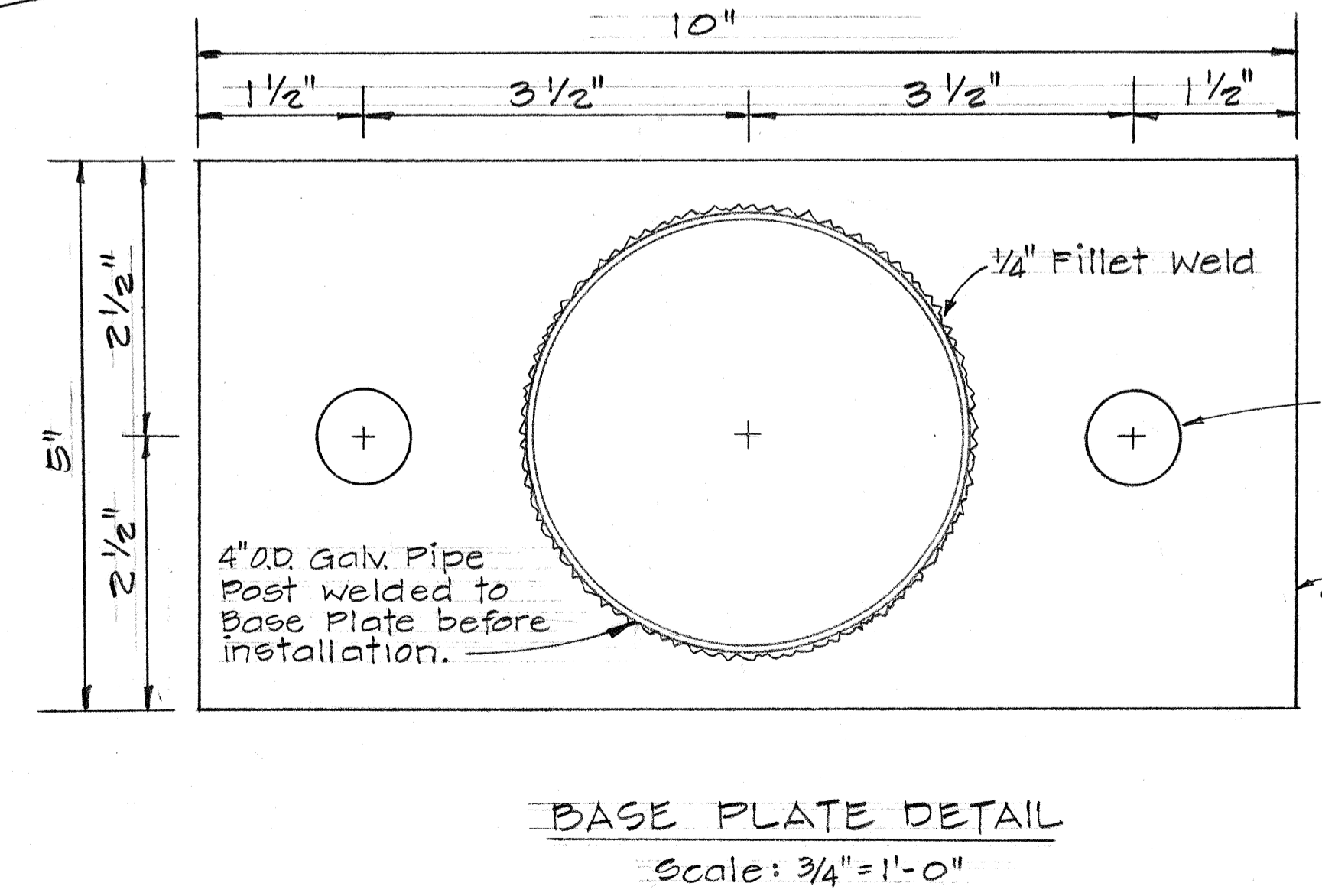
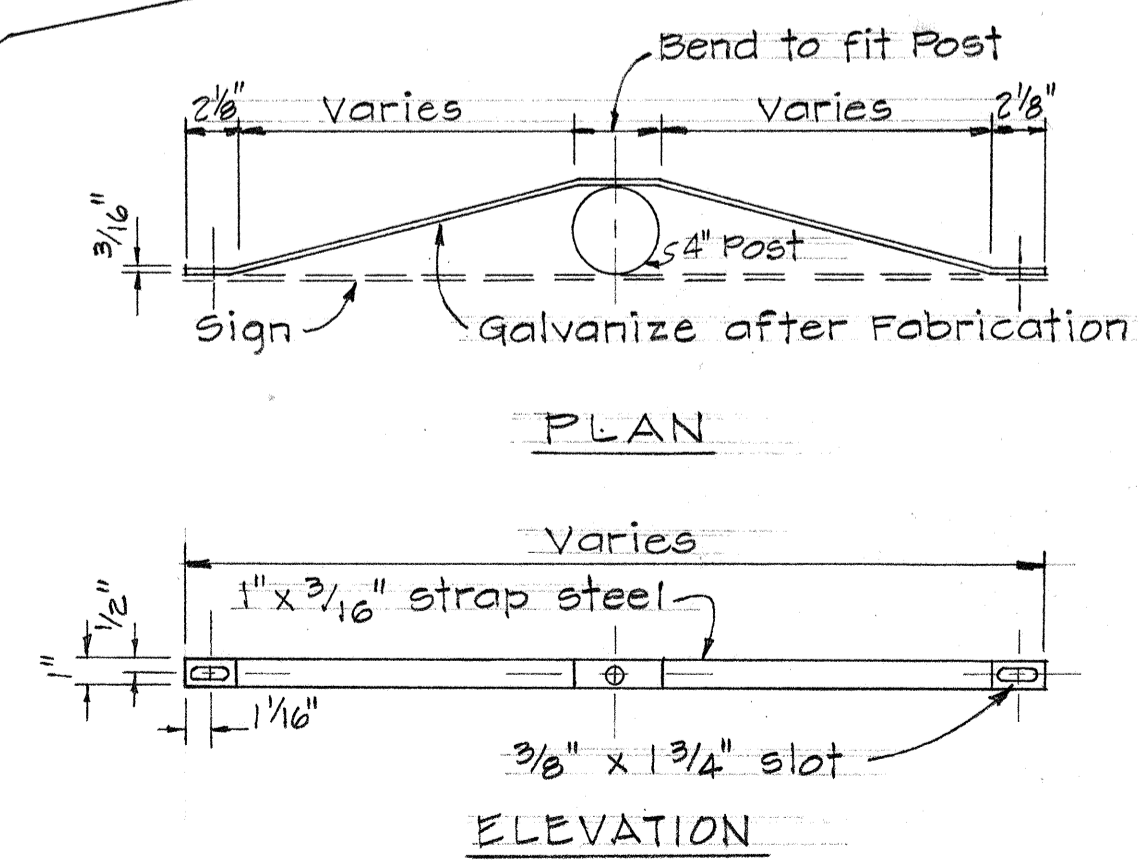
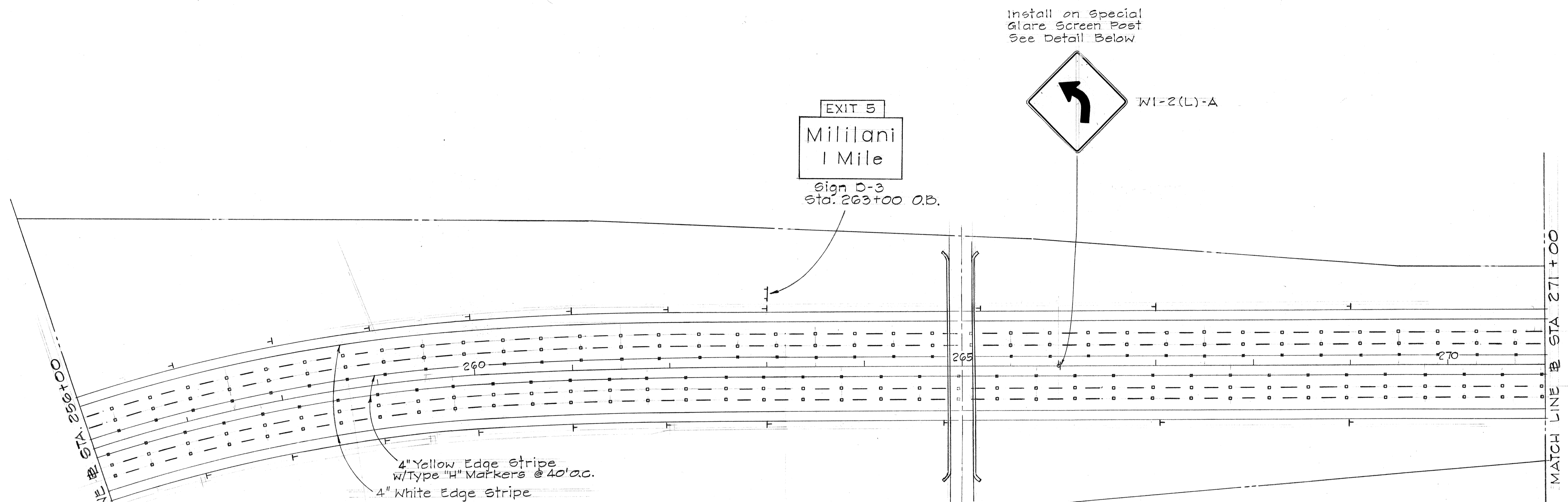
**PAVEMENT MARKERS  
SIGNING & STRIPING**

INTERSTATE ROUTE H-2  
Kipapa Gulch to Waiawa Interchange  
F.A.I. Proj. No. I-H2-1(12):0  
Scale: 1"=50' Date: April 1973

SHEET No. 1 OF 34 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	
NO.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	IHZ-1(12)-0	1973	65	171



Note: Payment for special glare screen post to be incidental to Item 660.01, Glare Screen.

DATE	REVISION
6/5/74	Deleted W13-1(55)-A Sign
5/17/73	Added Type "H" Pavement Markers

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PAVEMENT MARKERS  
SIGNING & STRIPING**

INTERSTATE ROUTE H-2  
Kipapa Gulch to Waiawa Interchange  
F.A.I. Proj. No. I-HZ-1(12)-0  
Scale: 1" = 50' Date: April 1973

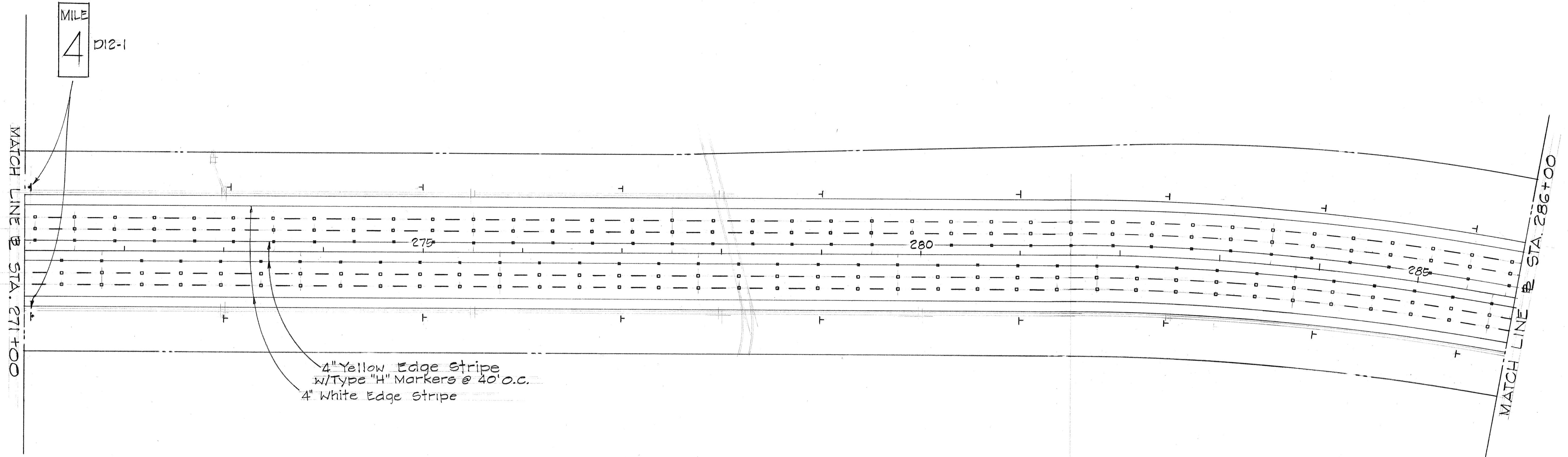
**SHEET No. 2 OF 34 SHEETS**

DATE: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_  
APPROVED BY: \_\_\_\_\_

ORIGINAL PLAN: \_\_\_\_\_  
NOTE BOOK: \_\_\_\_\_  
NO. \_\_\_\_\_

C. O. A. D. D. 65

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(12):0	1973	66	171



MILE  
4  
D12-1

MATCH LINE @ STA. 271+00

MATCH LINE @ STA. 286+00

4" Yellow Edge Stripe  
w/Type "H" Markers @ 40' o.c.  
4" White Edge Stripe

ORIGINAL PLAN	DATE
TRACED BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

5/17/73	Added Type "H" Pavement Markers
DATE	REVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

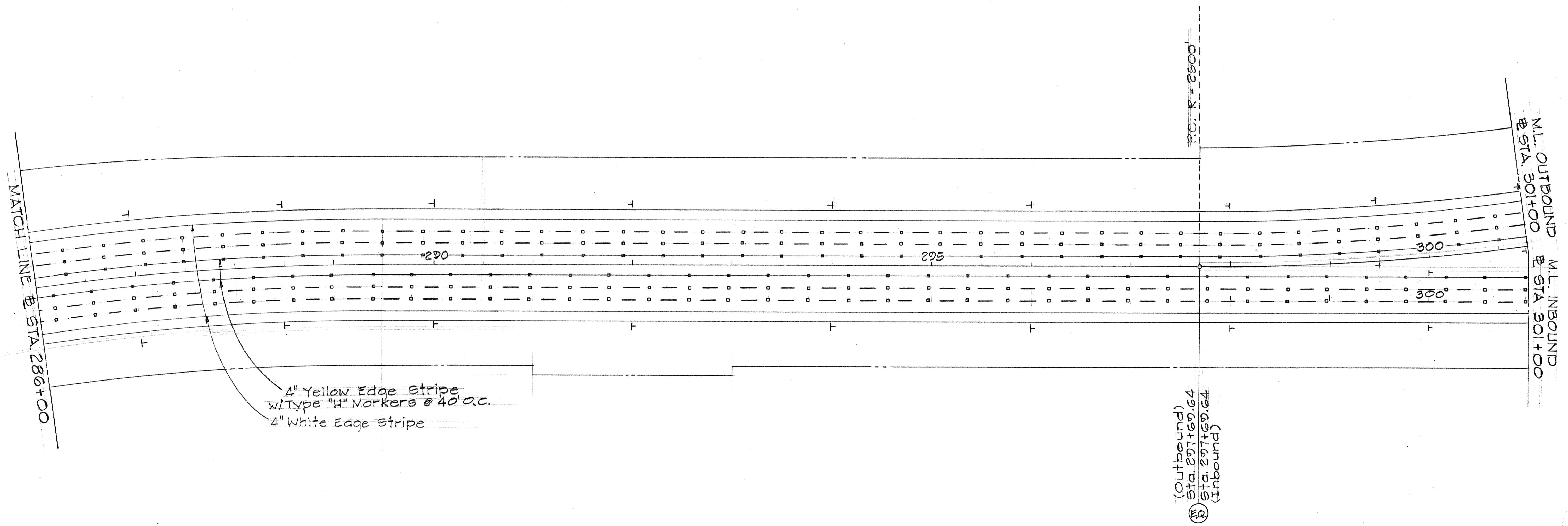
**PAVEMENT MARKERS  
SIGNING & STRIPING**

INTERSTATE ROUTE H-2  
Kipapa Gulch to Waiowa Interchange  
F.A.I. Proj. No. I-H2-1(12):0  
Scale: 1" = 50'      Date: April 1973

**SHEET No. 3 OF 34 SHEETS**

A D D D . G G

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(12):0	1973	67	171



4" Yellow Edge Stripe  
w/Type "H" Markers @ 40' O.C.  
4" White Edge Stripe

(Outbound)  
Sta. 297+69.64  
(Inbound)  
Sta. 297+69.64

DATE	REVISION
5/17/73	Added Type "H" Pavement Markers

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PAVEMENT MARKERS  
SIGNING & STRIPING**

INTERSTATE ROUTE H-2  
Kipapa Gulch to Waiawa Interchange  
F.A.I. Proj. No. I-H2-1(12):0

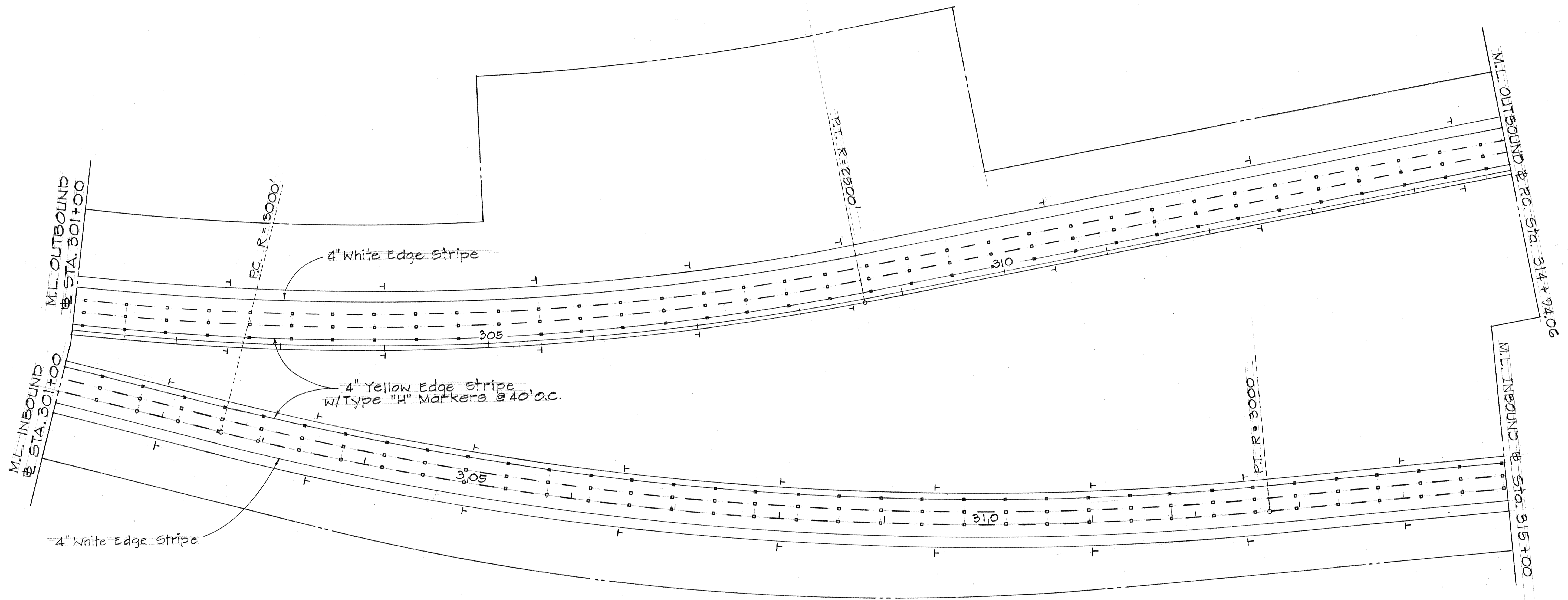
Scale: 1"=50'      Date: April 1973

**SHEET No. 4 OF 34 SHEETS**

A 1111.65

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(12):0	1973	68	171

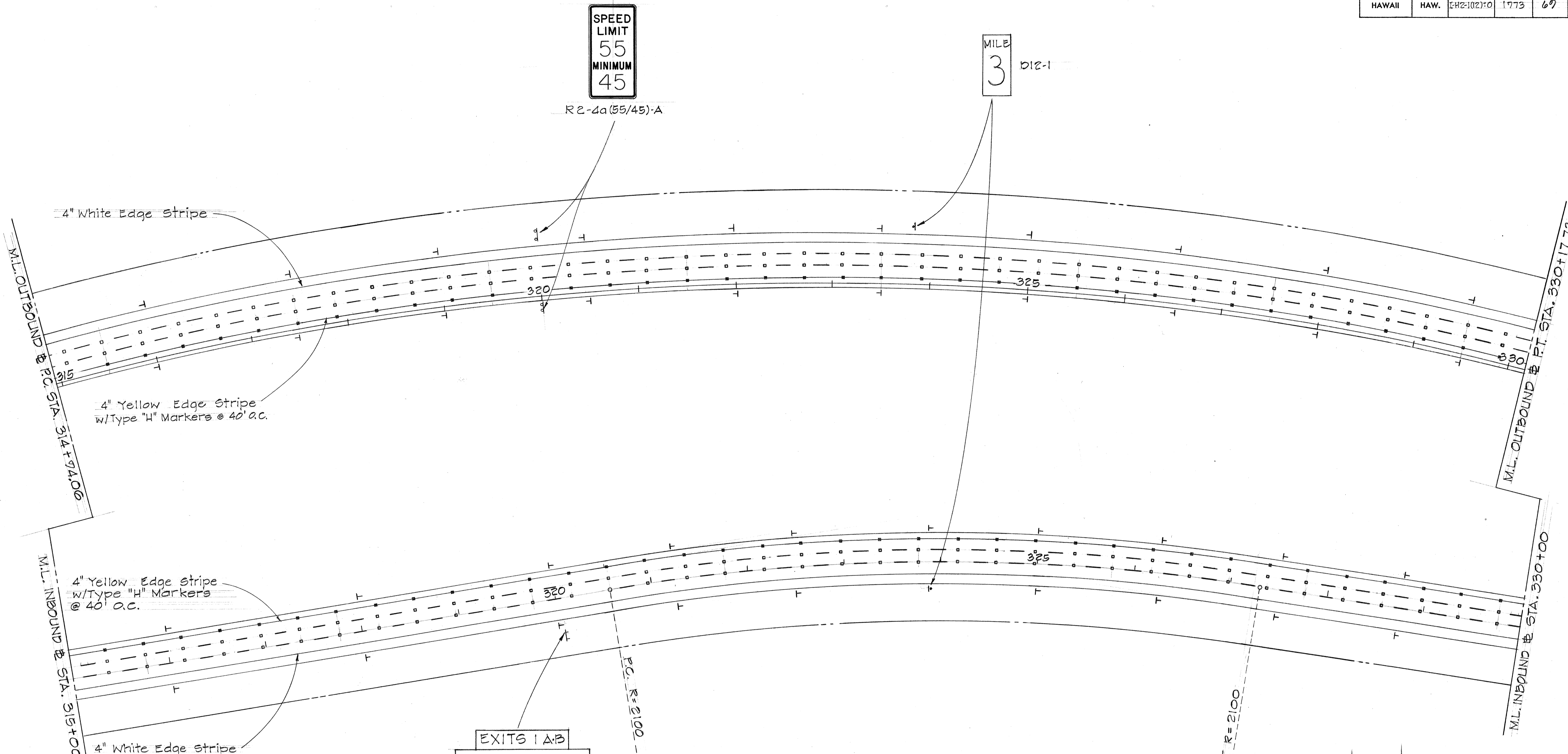


DATE	
DESIGNED BY	
CHECKED BY	
DATE	
DESIGNED BY	
CHECKED BY	
DATE	
DESIGNED BY	
CHECKED BY	

5/17/73	Added Type "H" Pavement Markers
DATE	REVISION
STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION <b>PAVEMENT MARKERS</b> <b>SIGNING &amp; STRIPING</b> INTERSTATE ROUTE H-2 Kipapa Gulch to Waiawa Interchange F.A.I. Proj. No. I-H2-1(12):0 Scale: 1"=50'      Date: April 1973 <b>SHEET No. 5 OF 34 SHEETS</b>	

A D D O G S

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(12):0	1973	69	171




SPEED LIMIT  
55  
MINIMUM  
45

R2-4a(55/45)-A

MILE  
3

D12-1

EXITS 1A/B

  
Honolulu  
Waianae  
2 MILES

SIGN D-4  
STA. 320+00 IB

DATE	REVISION
6/3/74	Changed R2-4a (55/55)-A to R2-4a (55/45)-A
5/17/73	Added Type "H" Pavement Markers

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

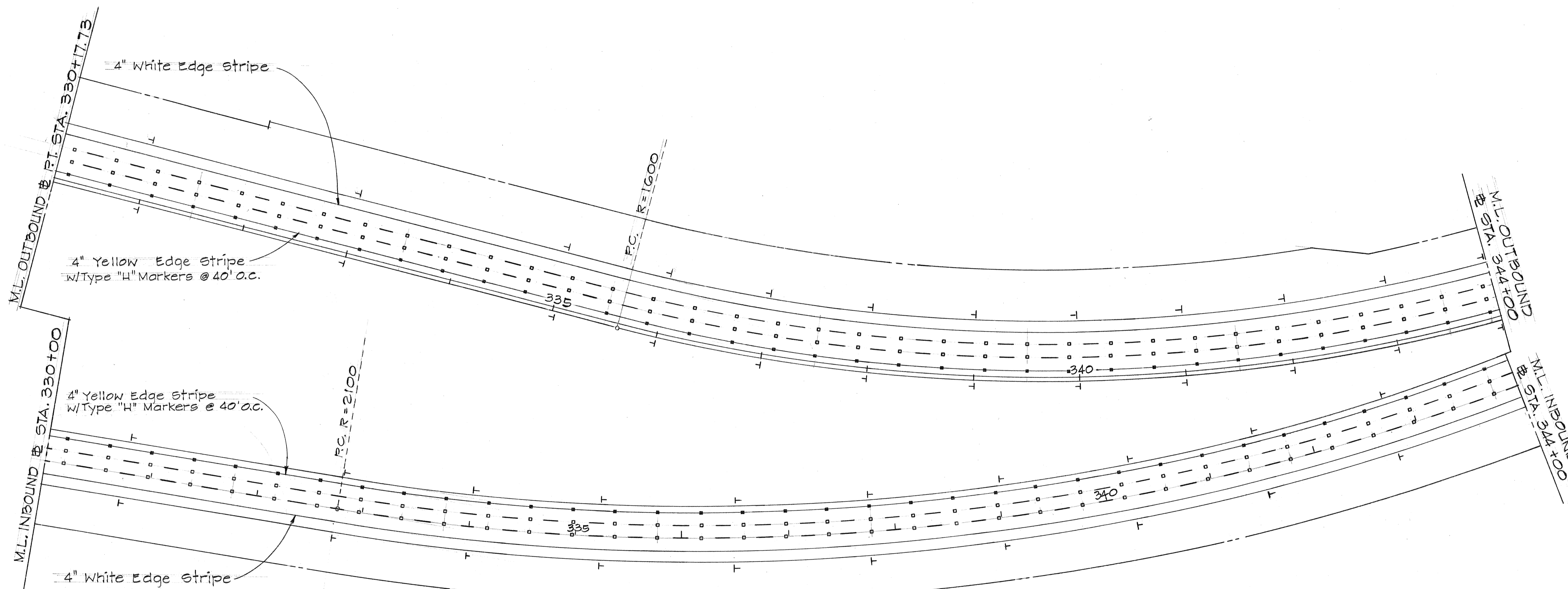
**PAVEMENT MARKERS  
SIGNING & STRIPING**

INTERSTATE ROUTE H-2  
Kipapa Gulch to Waiawa Interchange  
F.A.I. Proj. No. I-H2-1(12):0  
Scale: 1"=50' Date: April 1973

SHEET No. 6 OF 34 SHEETS

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED 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.	I-H2-1(12):0	1973	70	171



ORIGINAL PLAN	DATE
DRAWN BY	
TRACED BY	
NOTED BY	
CHECKED BY	
NO.	

DATE	REVISION
5/17/73	Added Type "H" Pavement Markers

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

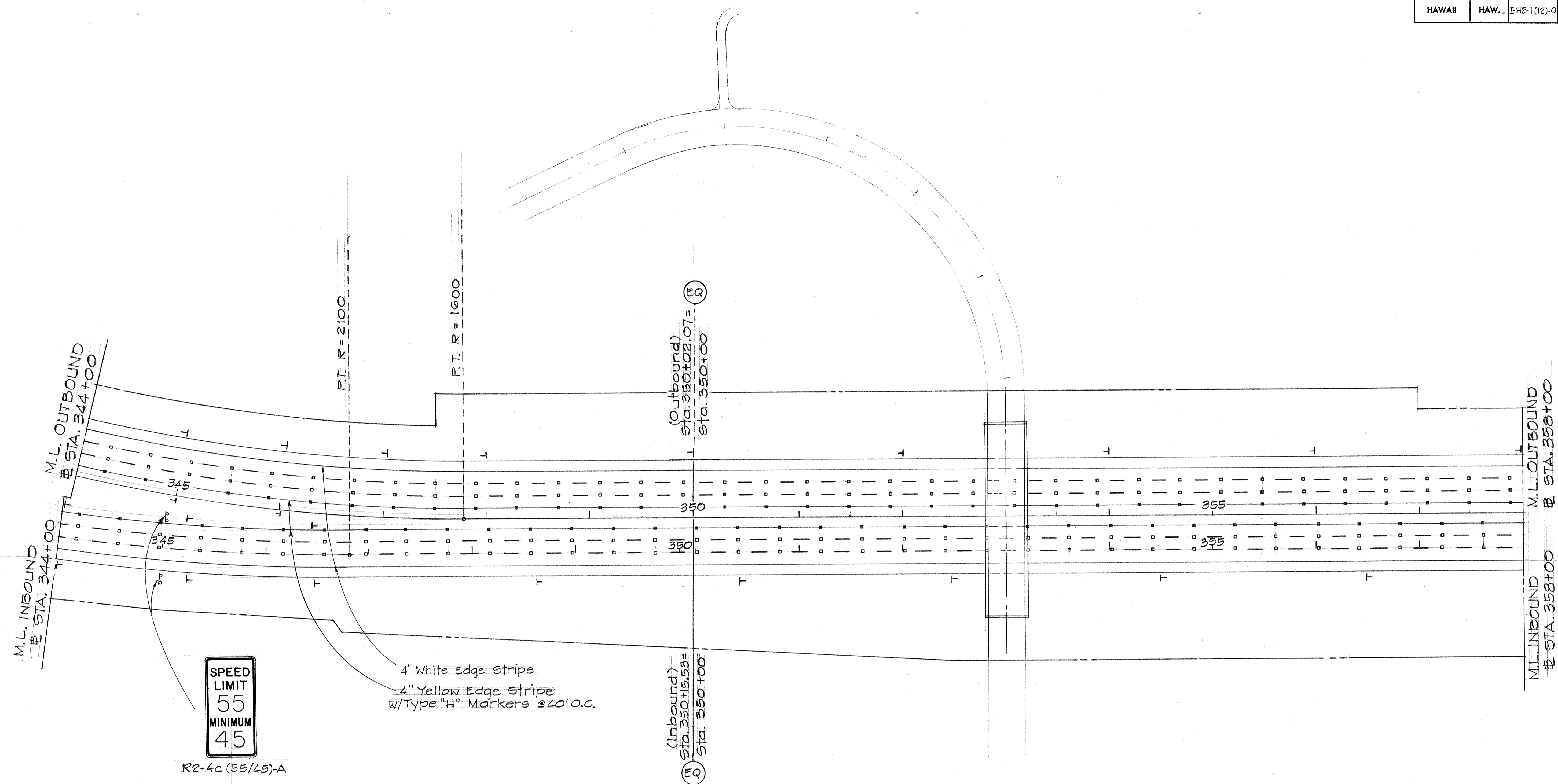
**PAVEMENT MARKERS  
SIGNING & STRIPING**

INTERSTATE ROUTE H-2  
Kipapa Gulch to Waiawa Interchange  
E.A.I. Proj. No. I-H2-1(12):0  
Scale: 1"=50' Date: April 1973

**SHEET No. 7 OF 34 SHEETS**

13 11 11 . 5 0

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(12):0	1973	71	171



ORIGINAL PLAN	DATE
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

DATE	REVISION
6/5/74	Changed R2-4a (65/55)-A to R2-4a (55/45)-A
5/17/73	Added Type "H" Pavement Markers

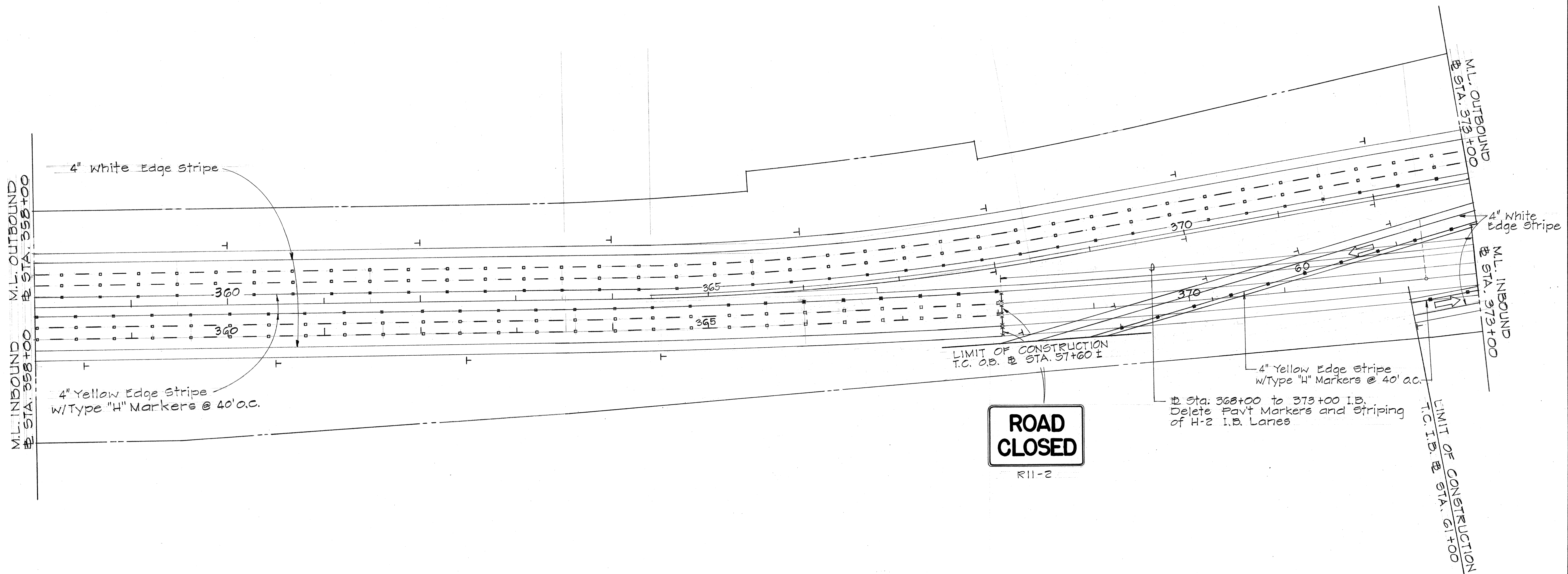
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PAVEMENT MARKERS  
SIGNING & STRIPING**

INTERSTATE ROUTE H-2  
Kipapa Gulch to Waiawa Interchange  
F.A.I. Proj. No. I-H2-1(12):0  
Scale: 1" = 50' Date: April 1973

**SHEET No. 8 OF 34 SHEETS**

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(12):0	1973	72	171



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

6/5/74	Temporary Connector Revised Pavement Markers, Signing Striping, and Barricades. Revised
5/17/73	Added Type "H" Pavement Markers
DATE	REVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PAVEMENT MARKERS  
SIGNING & STRIPING**

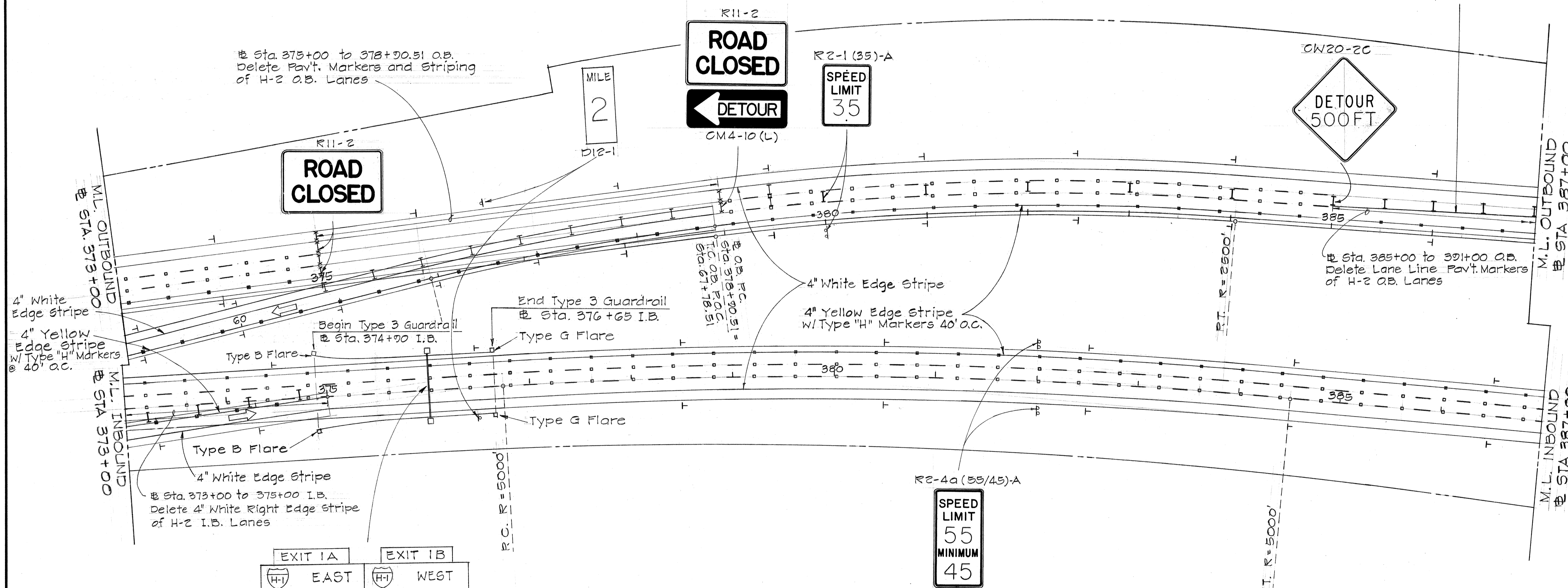
INTERSTATE ROUTE H-2  
Kipapa Gulch to Waiawa Interchange  
F.A.I. Proj. No. I-H2-1(12):0  
Scale: 1"=50' Date: April 1973

**SHEET No. 9 OF 34 SHEETS**

C. O. ADD. 72

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(12):0	1973	73	171

600 L.F. 4" White Pavement Marking Adhesive Tape Payment made under Contract Item 690.02, Construction and Maintenance of Special Detours



# Sta. 375+00 to 378+00.51 O.B. Delete Pav't. Markers and Striping of H-2 O.B. Lanes

CW20-20

R11-2  
**ROAD CLOSED**  
← **DETOUR**  
CM4-10 (L)

R2-1 (35)-A  
**SPEED LIMIT 35**

**DETOUR 500 FT**

R11-2  
**ROAD CLOSED**

MILE 2

# Sta. 385+00 to 391+00 O.B. Delete Lane Line Pav't. Markers of H-2 O.B. Lanes

4" White Edge Stripe  
4" Yellow Edge Stripe w/ Type "H" Markers @ 40' o.c.

End Type 3 Guardrail # Sta. 376+65 I.B.  
Type G Flare

4" White Edge Stripe  
4" Yellow Edge Stripe w/ Type "H" Markers 40' o.c.

Begin Type 3 Guardrail # Sta. 374+00 I.B.  
Type B Flare

4" White Edge Stripe  
# Sta. 373+00 to 375+00 I.B. Delete 4" White Right Edge stripe of H-2 I.B. Lanes

R2-4a (55/45)-A  
**SPEED LIMIT 55 MINIMUM 45**

EXIT IA EAST  
EXIT IB WEST  
Honolulu Waianae  
↓ ↓ ↓ 1 MILE

Sign E-1  
Sta. 376+00 I.B.

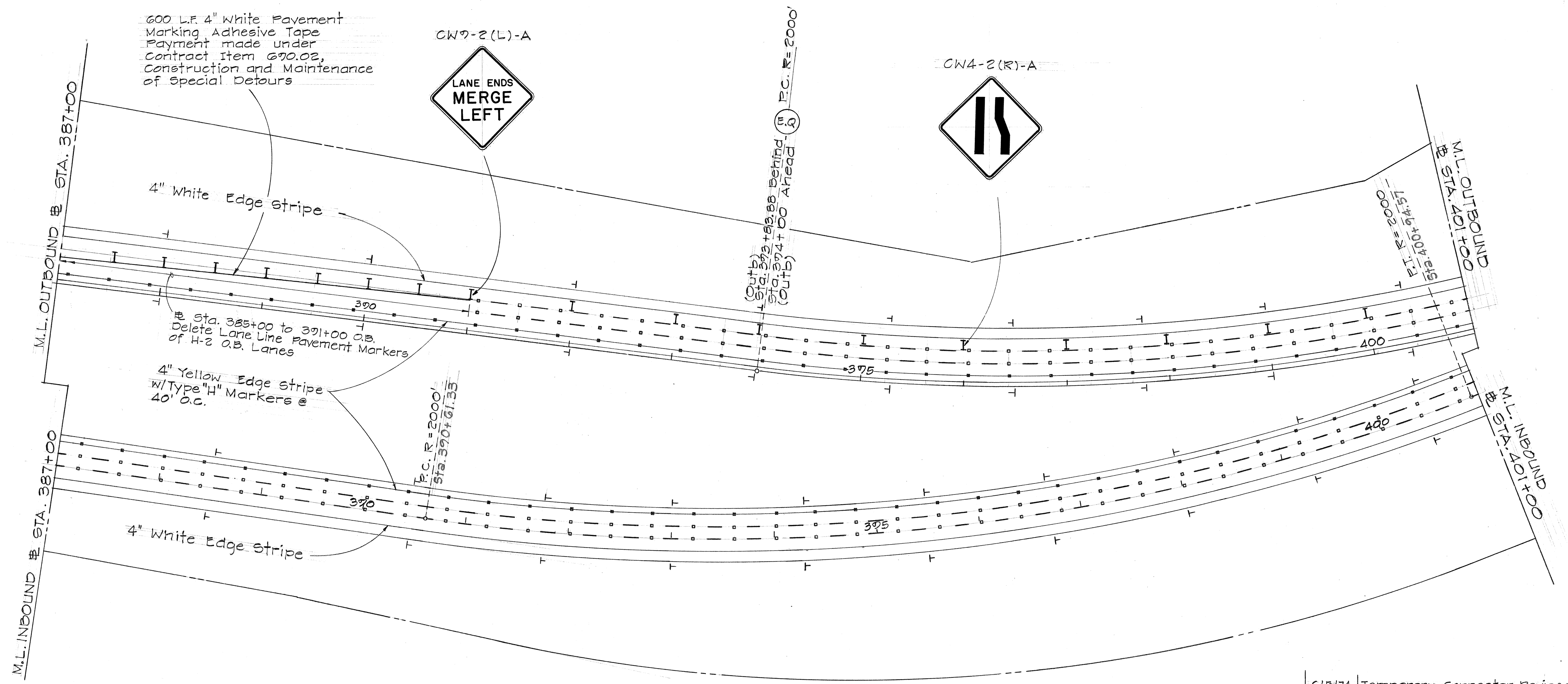
DATE	REVISION
6/5/74	Temporary Connector Revised Pavement Markers, Signing, Striping, and Barricades Revised
5/17/73	Added Type "H" Pavement Markers

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
**PAVEMENT MARKERS  
SIGNING & STRIPING**  
INTERSTATE ROUTE H-2  
Kipapa Gulch to Waiawa Interchange  
F.A.I. Proj. No. I-H2-1(12):0  
Scale: 1"=50' Date: April 1973

SHEET No. 10 OF 34 SHEETS

DATE	
SURVEY PLOTTED BY	
DRAWN BY	
DESIGNED 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.	I-H2-1(12):0	1973	74	171



600 L.F. 4" White Pavement Marking Adhesive Tape  
 Payment made under Contract Item 670.02, Construction and Maintenance of Special Detours



4" White Edge stripe

Sta. 385+00 to 391+00 O.B.  
 Delete Lane Line Pavement Markers of H-2 O.B. Lanes

4" Yellow Edge stripe w/Type "H" Markers @ 40' O.C.

4" White Edge stripe

P.C. R=2000'  
 STA. 390+61.35

(Outb) Sta. 392+88.88 Behind Sta. 394+00 Ahead (Outb)  
 P.C. R=2000'

DATE	REVISION
6/3/74	Temporary Connector Revised Pavement Markers and Striping Revised
5/17/73	Added Type "H" Pavement Markers

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

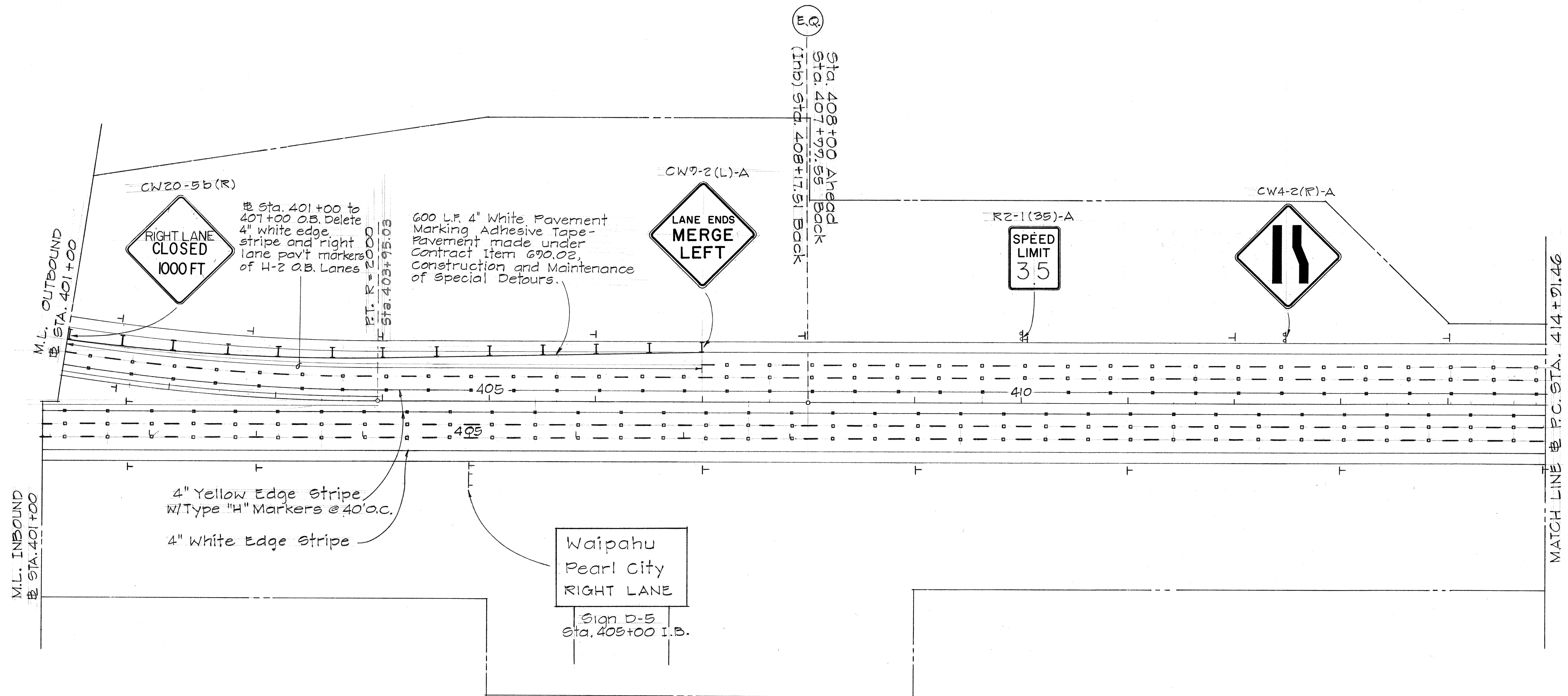
**PAVEMENT MARKERS  
 SIGNING & STRIPING**

INTERSTATE ROUTE H-2  
 Kipapa Gulch to Waiawa Interchange  
 F.A.I. Proj. No. I-H2-1(12):0  
 Scale: 1"=50' Date: April 1973

**SHEET No. 11 OF 34 SHEETS**

SURVEY PLOTTED BY	DATE
DRAWN BY	
DESIGNED BY	
QUANTITIES BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(12):0	1973	75	171



ORIGINAL PLAN	DATE
DESIGNED BY	
DRAWN BY	
CHECKED BY	
DATE	

DATE	REVISION
6/5/74	Pavement Markers, Striping Revised
5/17/73	Added Type "H" Pavement Markers

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**PAVEMENT MARKERS  
SIGNING & STRIPING**

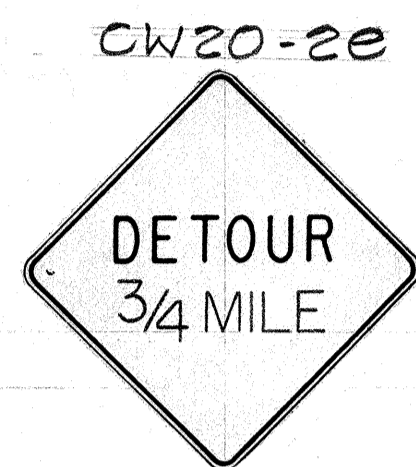
INTERSTATE ROUTE H-2  
Kipapa Gulch to Waiawa Interchange  
P.A.I. Proj. No. I-H2-1(12):0  
Scale: 1"=50' Date: April 1973

**SHEET No. 12 OF 34 SHEETS**

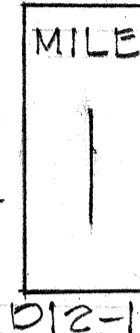
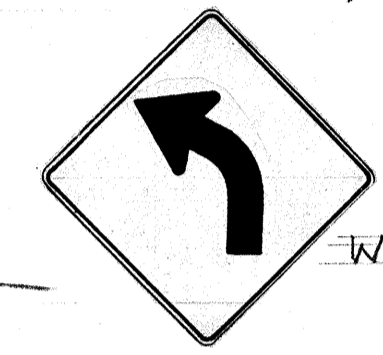
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(12):0	1973	76	171

Install in place without legend. See Sheet No. 78, Note No. 6

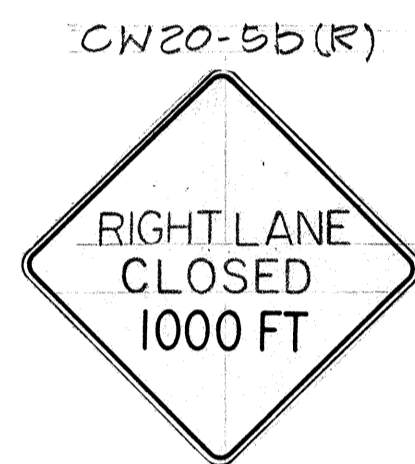
Millilani	4
Wheeler AFB	6
Wahiawa	7



Install on Special glare screen Post See Detail, Sht. No. 65



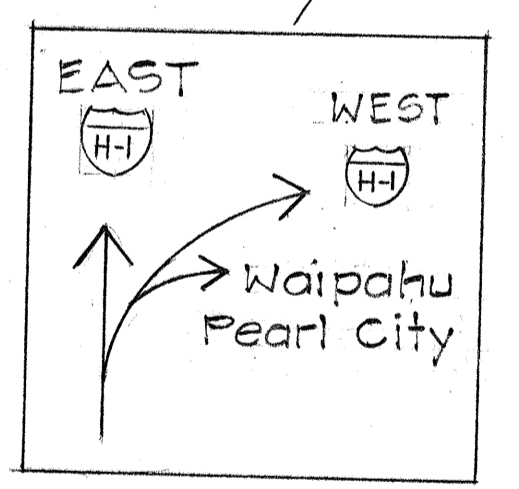
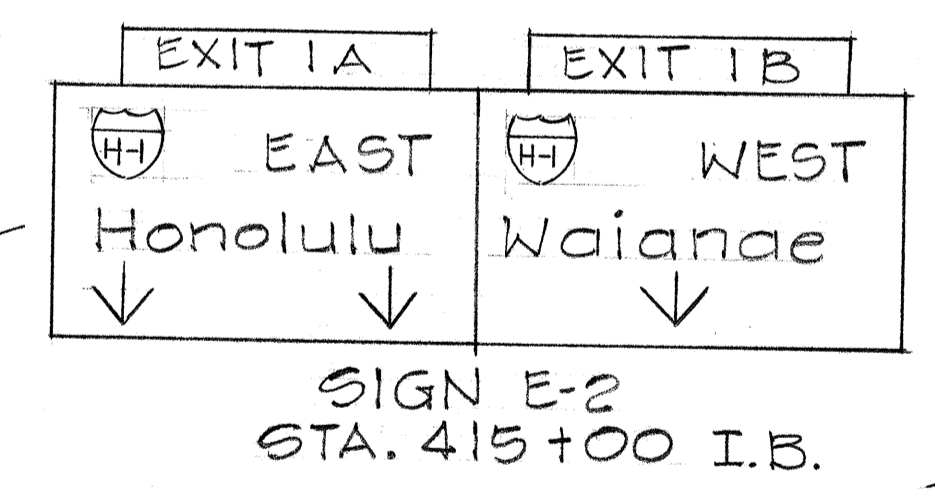
R2-5b(35)-A



4" white Edge Stripe

4" Yellow Edge Stripe w/Type "H" Markers @ 40' a.c.

STA. 429+63.38 BACK  
STA. 430+00 FORWARD  
END OF PROJECT



Sign D-7 Sta. 425+00 I.B.

TYPE	DESCRIPTION	QUANTITY	
		W/POST	W/O POST
D12-1	MILE 1	2	
D12-1	MILE 2	2	
D12-1	MILE 3	2	
D12-1	MILE 4	2	
R2-1(35)-A	SPEED LIMIT 35	2	1
R2-4a(55/45)-A	SPEED LIMIT 55/45 MIN	6	
R2-5b(35)-A	REDUCED SPEED 35	1	
W1-2(L)-A	Left Turn Arrow		2
R11-2	ROAD CLOSED	5	
CW4-2(R)-A	Right Lane Closed	1	1
CW7-2(L)-A	LANE ENDS MERGE LEFT		2

TYPE	DESCRIPTION	QUANTITY
A	NON-REFLECTIVE WHITE	6780
C	RED-CLEAR REFLECTIVE	1745
H	ONE-WAY YELLOW REFLECTIVE	920

TYPE	DESCRIPTION	QUANTITY
RM-1	Reflector Marker	345
Class I	Barricade	10
Class II	Barricade	54

TYPE	DESCRIPTION	QUANTITY	REMARKS
CW20-5b(R)	RIGHT LANE CLOSED 1000 FT	1	
CM4-10(L)	← DETOUR		1
CW20-2e	DETOUR 3/4 MILE	1	
CW20-2c	DETOUR 500 FT		1
CW20-5a(R)	RIGHT LANE CLOSED 1500 FT	1	

DATE	REVISION
6/5/74	Deleted W13-1(55)-A Sign
6/5/74	Revised All Summaries
5/17/73	Changed Barricade from Class I to Class II
5/17/73	Added Type "H" Pavement Markers

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

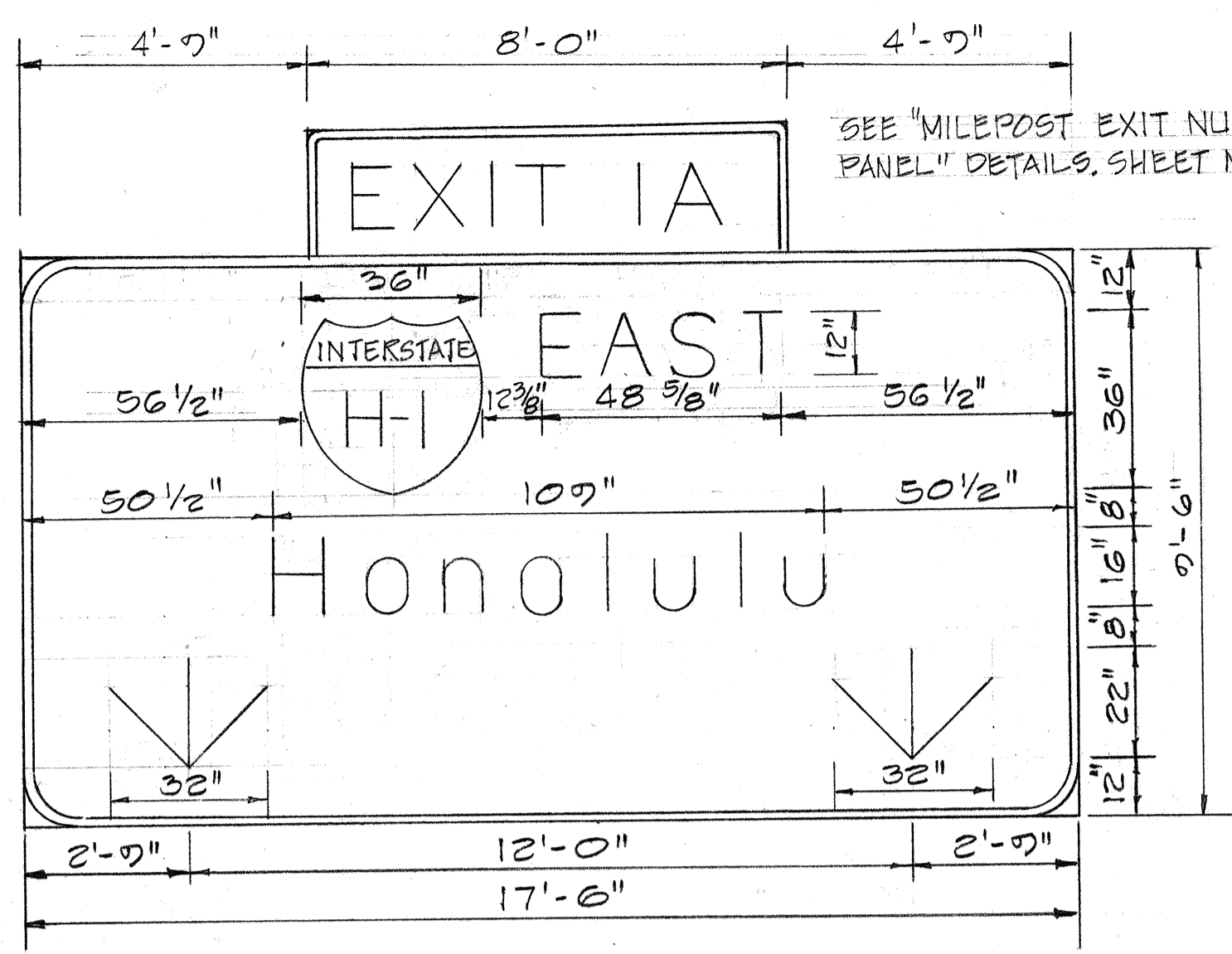
PAVEMENT MARKERS  
SIGNING & STRIPING  
INTERSTATE ROUTE H-2  
Kipapa Gulch to Waiawa Interchange  
F.A.I. Proj. No. I-H2-1(12):0  
Scale: 1"=50' Date: April 1973  
SHEET No. 13 OF 34 SHEETS

DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
APPROVED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

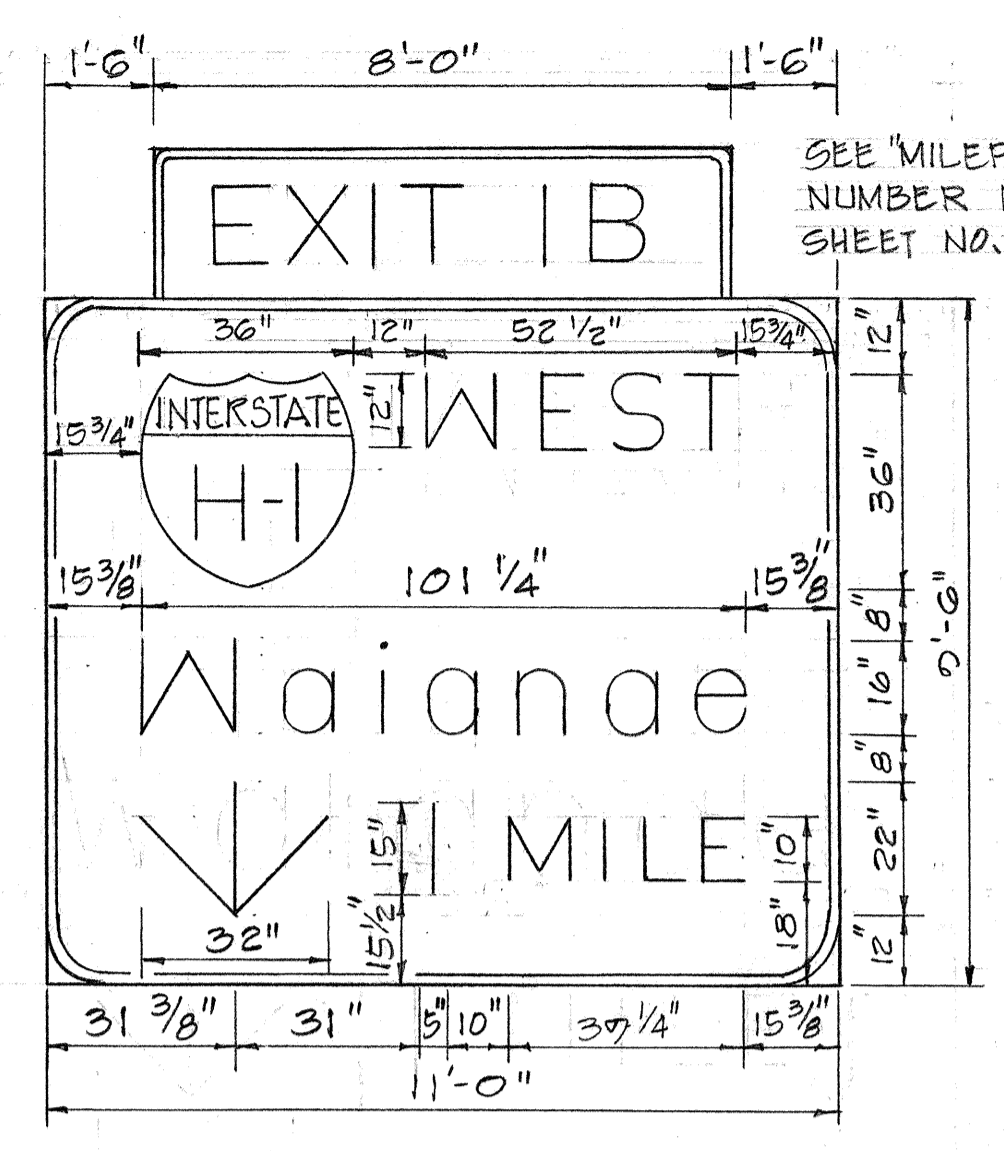
MATCH LINE  
P.C. STA. 414 + 91.46

C. O. ADD. 56

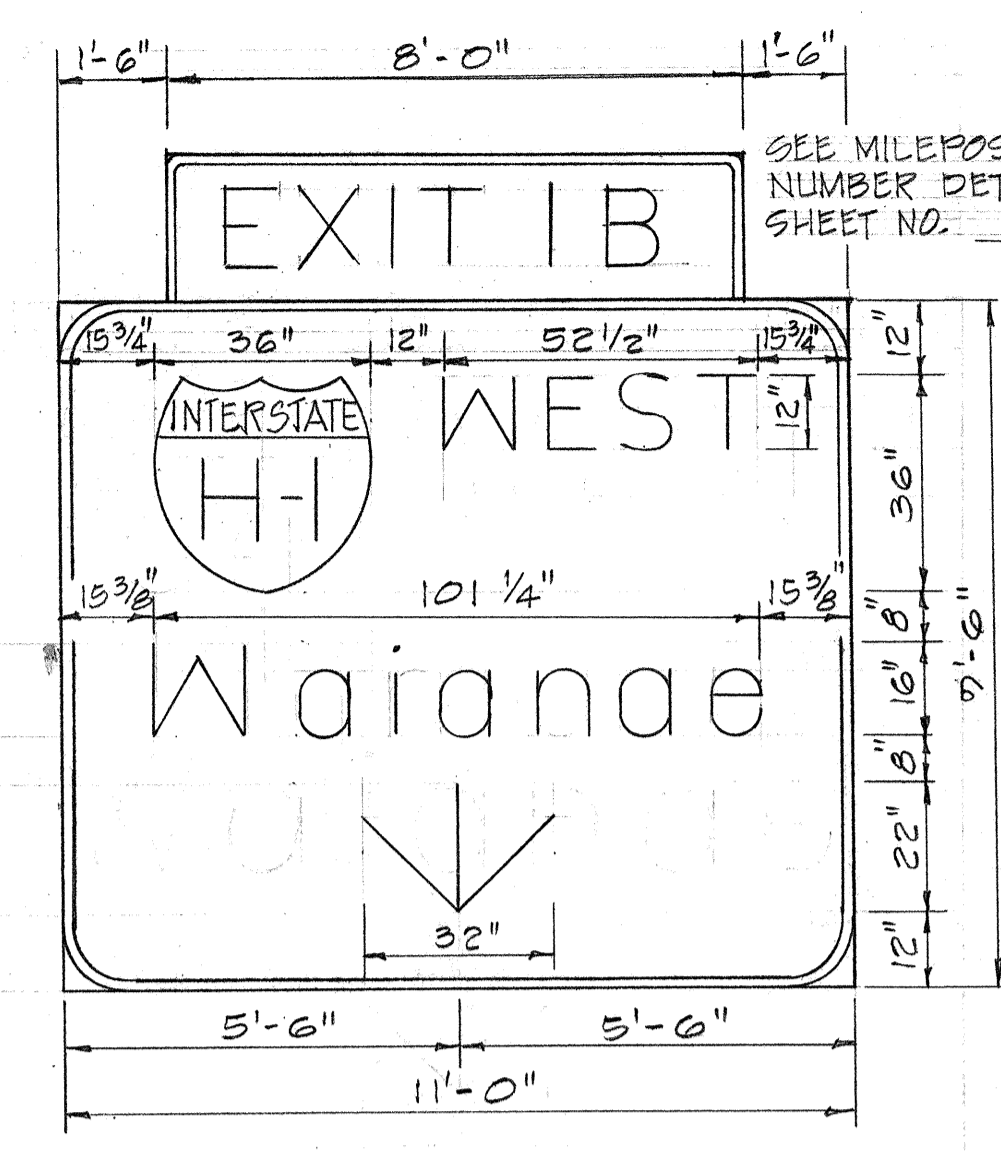
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(12):0	1973	77	171



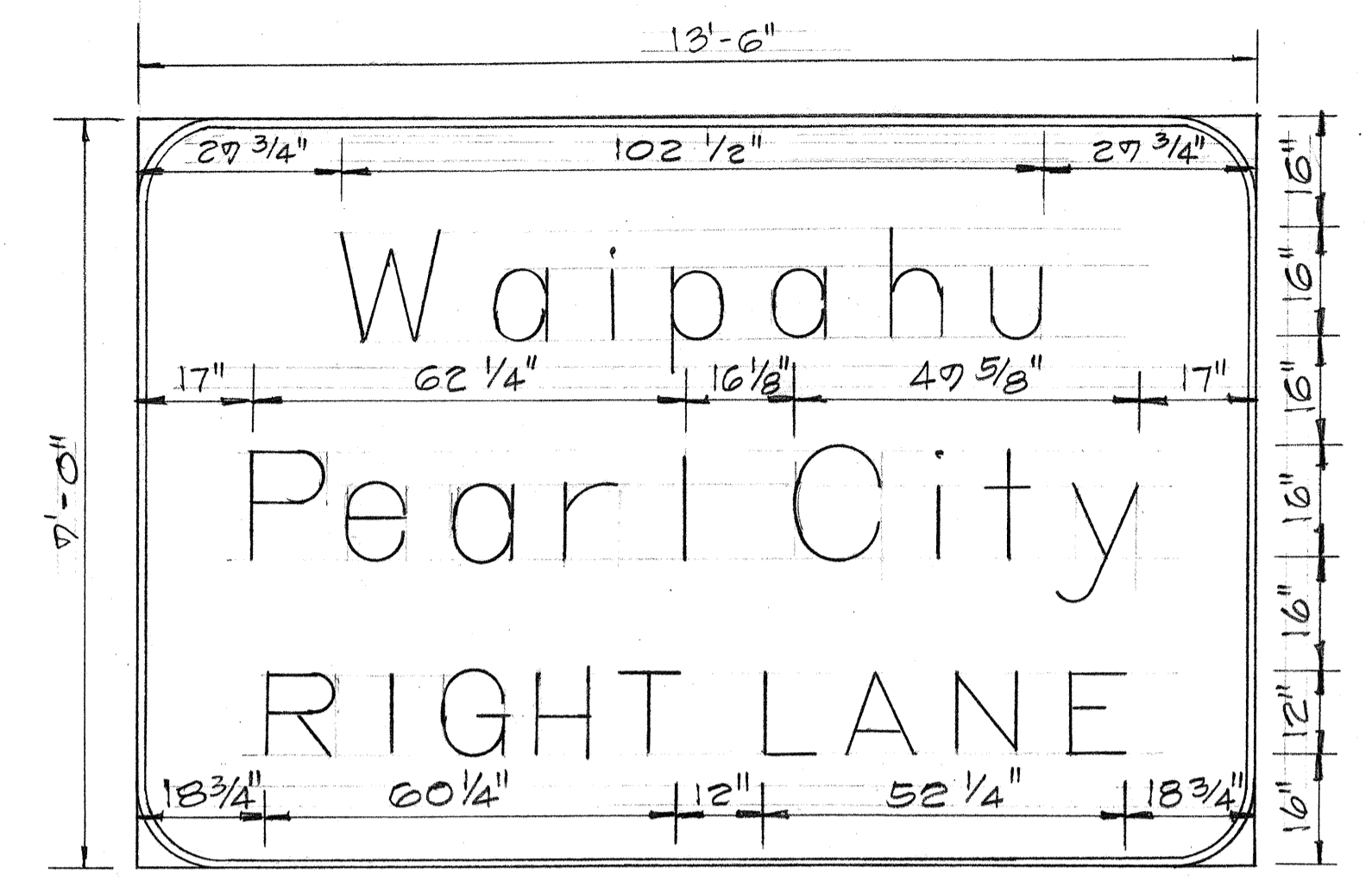
SIGNS E-1(L) & E-2(L)  
3/8" = 1'-0"



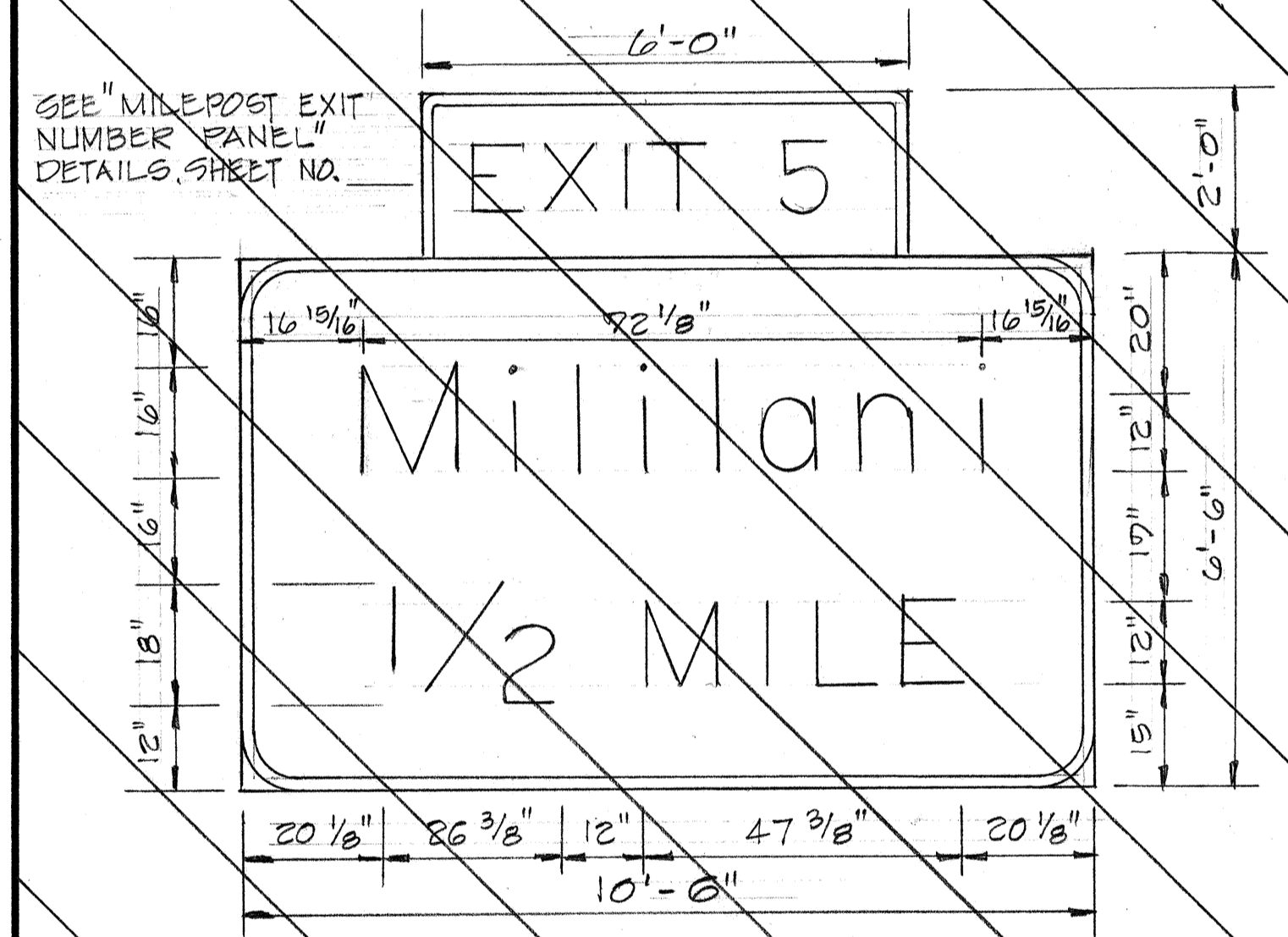
SIGN E-1(R)  
3/8" = 1'-0"



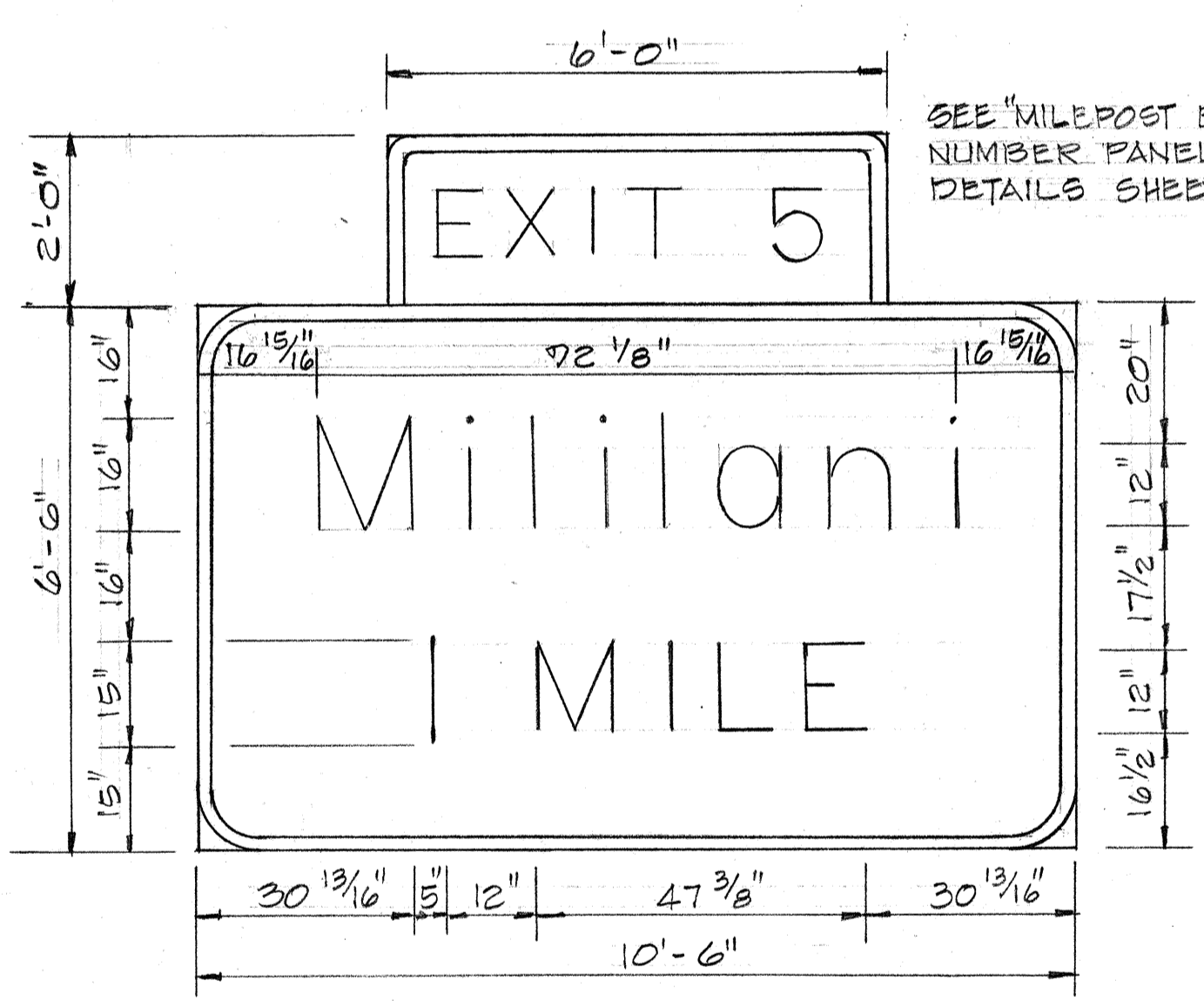
SIGN E-2(R)  
3/8" = 1'-0"



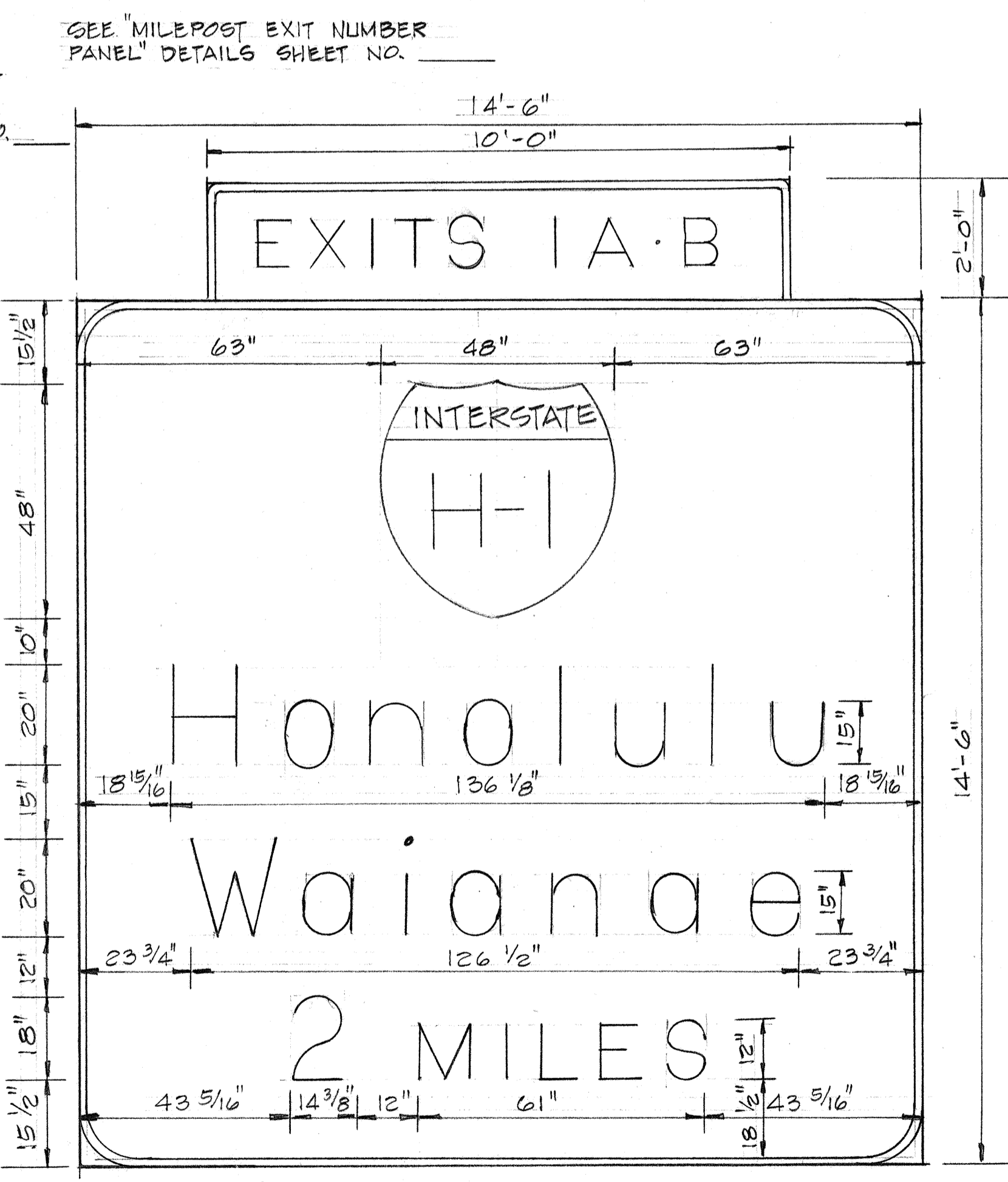
SIGN D-5  
1/2" = 1'-0"



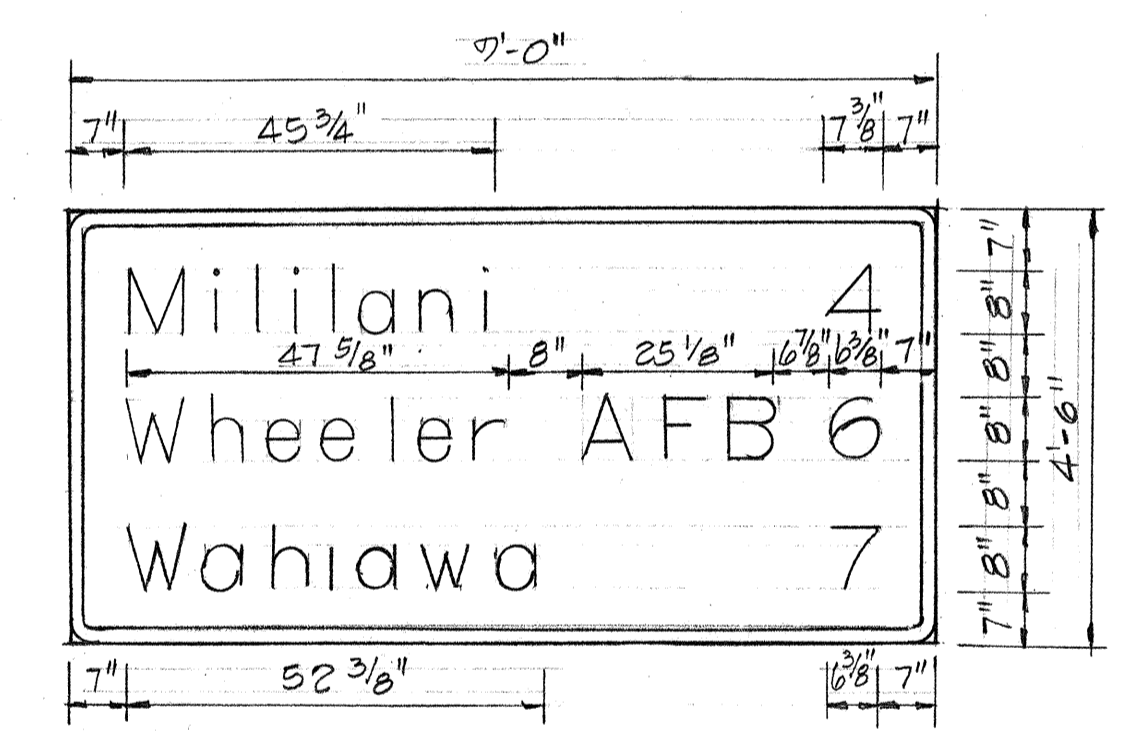
SIGN D-1  
1/2" = 1'-0"



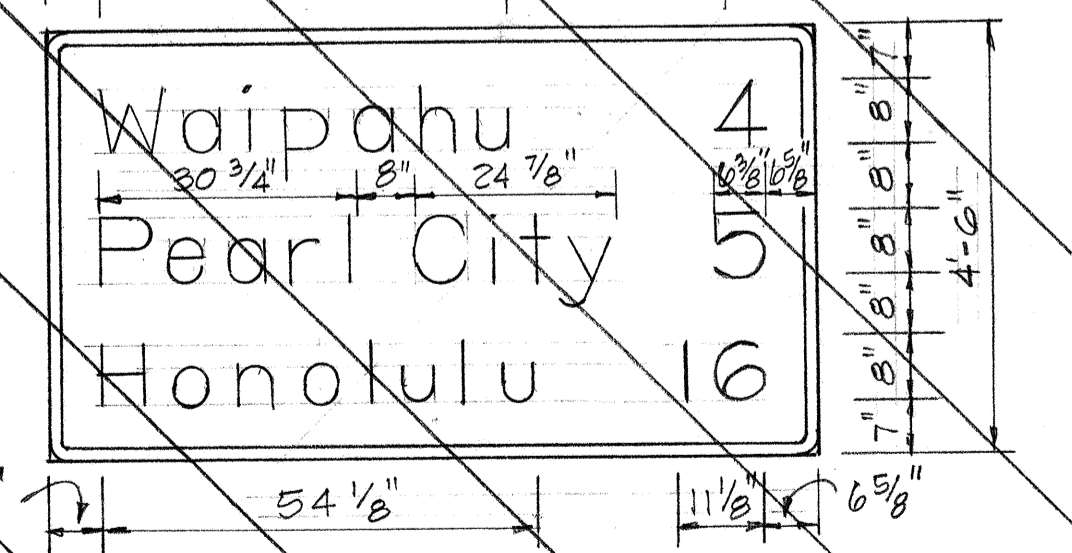
SIGN D-3  
1/2" = 1'-0"



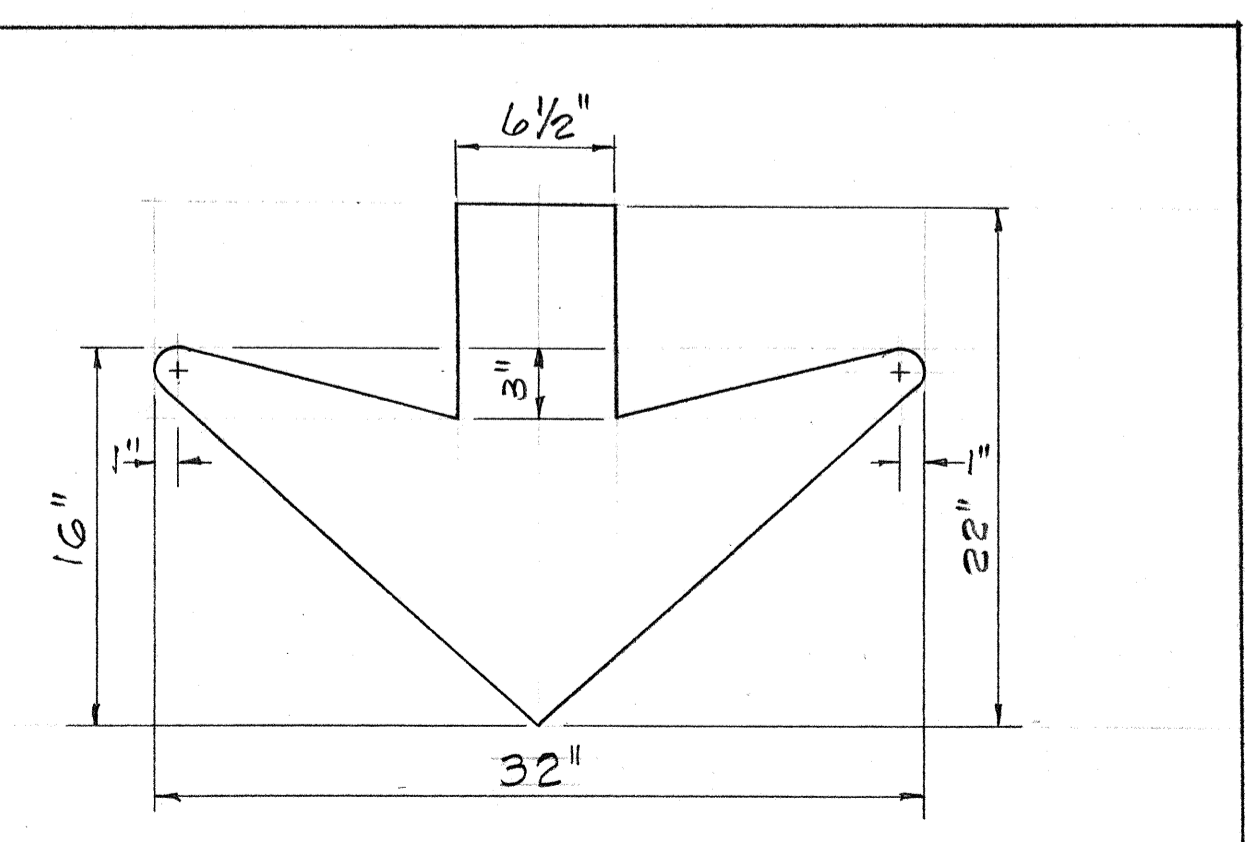
SIGN D-4  
1/2" = 1'-0"



SIGN D-6  
1/2" = 1'-0"



SIGN D-2  
1/2" = 1'-0"



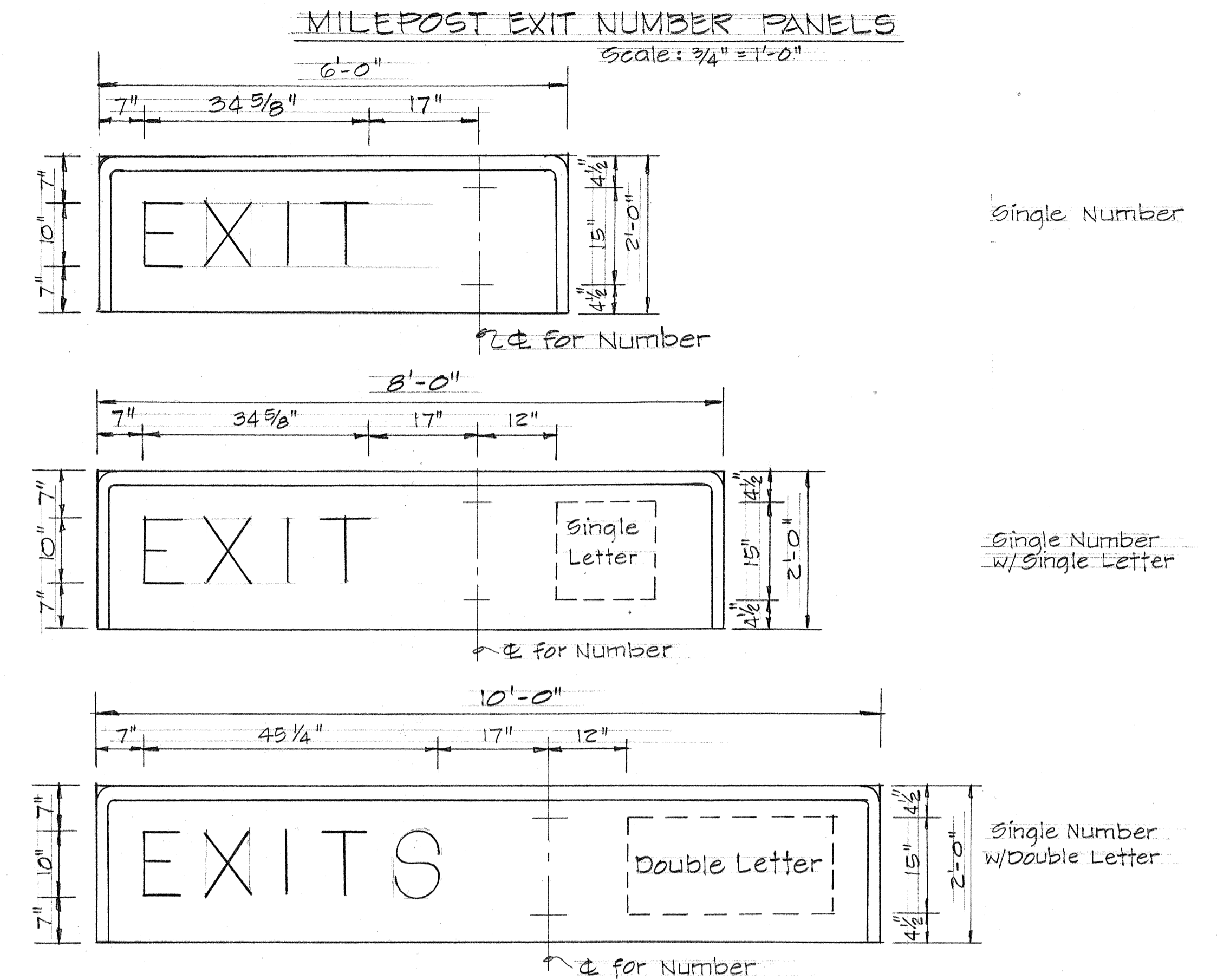
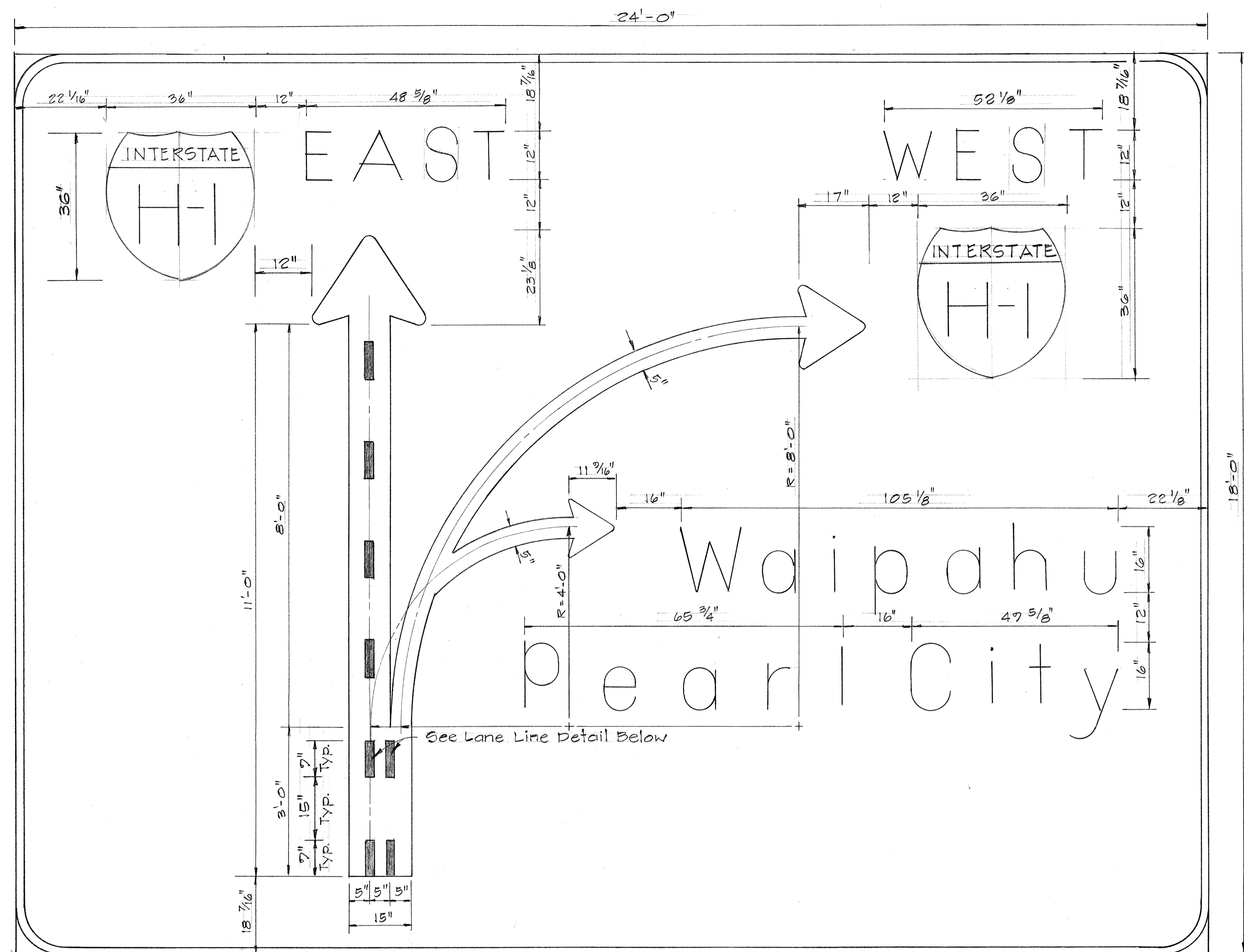
VERTICAL DOWN ARROW DETAIL  
1/2" = 1'-0"

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

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

PANEL LAYOUT  
INTERSTATE ROUTE H-2  
Kipapa Gulch to Waiawa Interchange  
F.A.I. Proj. No. I-H2-1(12):0  
Scale: As Shown Date: April 1973  
SHEET No. 14 OF 34 SHEETS

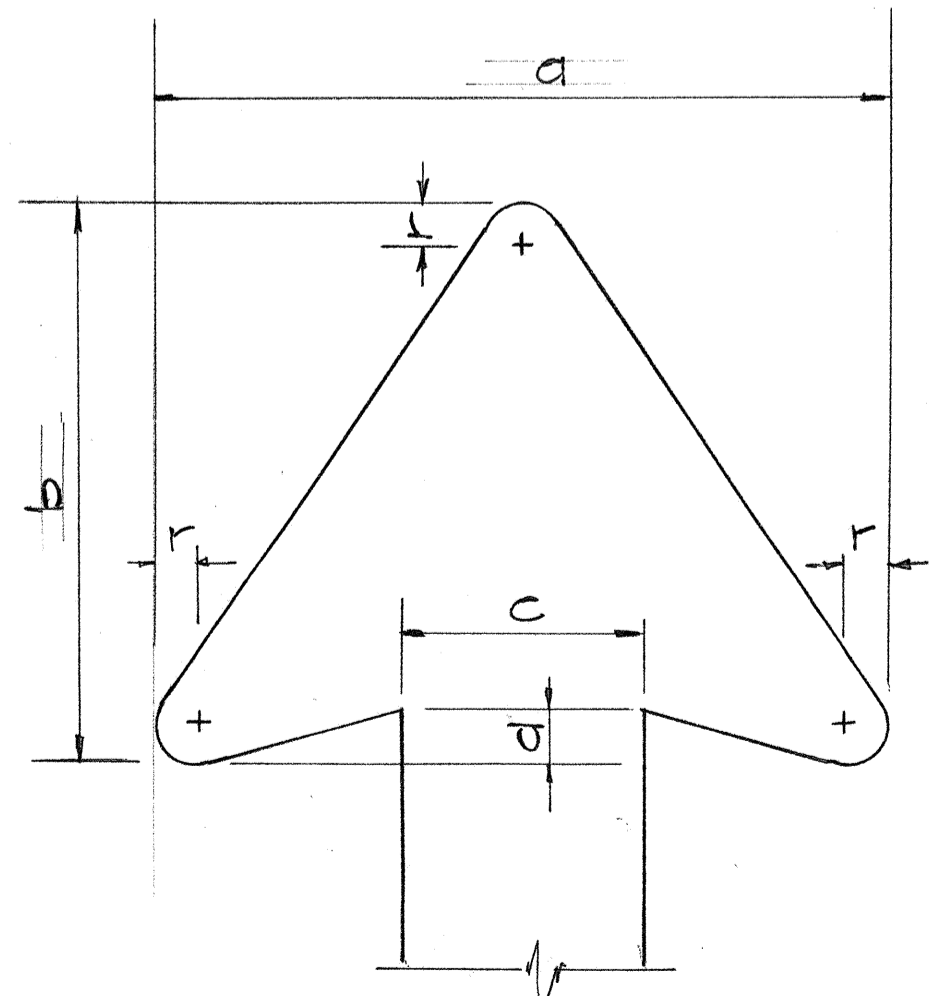
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(12):0	1973	78	171



**GENERAL NOTES**

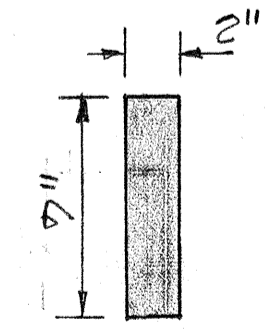
1. Sign message shall be lettered in uppercase according to Standard Alphabets for Highway Signs; Bureau of Public Roads, 1966, and lower case according to Standard Lower-Case Alphabets for Highway Signs, Bureau of Public Roads, 1962. Use Series "E" modified letters unless otherwise noted.
2. Arrows, borders, and route markers shall conform with details as shown on plans.
3. Letters, numerals, symbols and borders shall be demountable aluminum cutouts with white reflective sheeting or clear reflex reflectors and shall be fastened on the sign panel with aluminum blind rivets.
4. Destination (D) and Expressway (E) Signs shall have white reflective sheeting on aluminum cutout on green reflective sheeting background.
5. Milepost Exit Number Panels shall conform to all plans and specifications for Destination and Expressway Sign Panels.
6. Sign D-6 shall be installed in place without aluminum cutout legend. Legend shall be packaged separately and stockpiled at the direction of the Engineer for installation at a later date by others.

**SIGN D-7**  
3/4" = 1'-0"



ARROW DETAIL

ARROW DIMENSIONS (Inches)				
a	b	c	d	r
30 1/4	23 1/8	10	2 1/4	1 5/8
22 1/4	17	5	1 3/4	1
18 1/2	11 7/16	5	1 5/16	13/16



LANE LINE DETAIL  
Black sheeting on Demountable Aluminum Cutouts Mounted on White Background

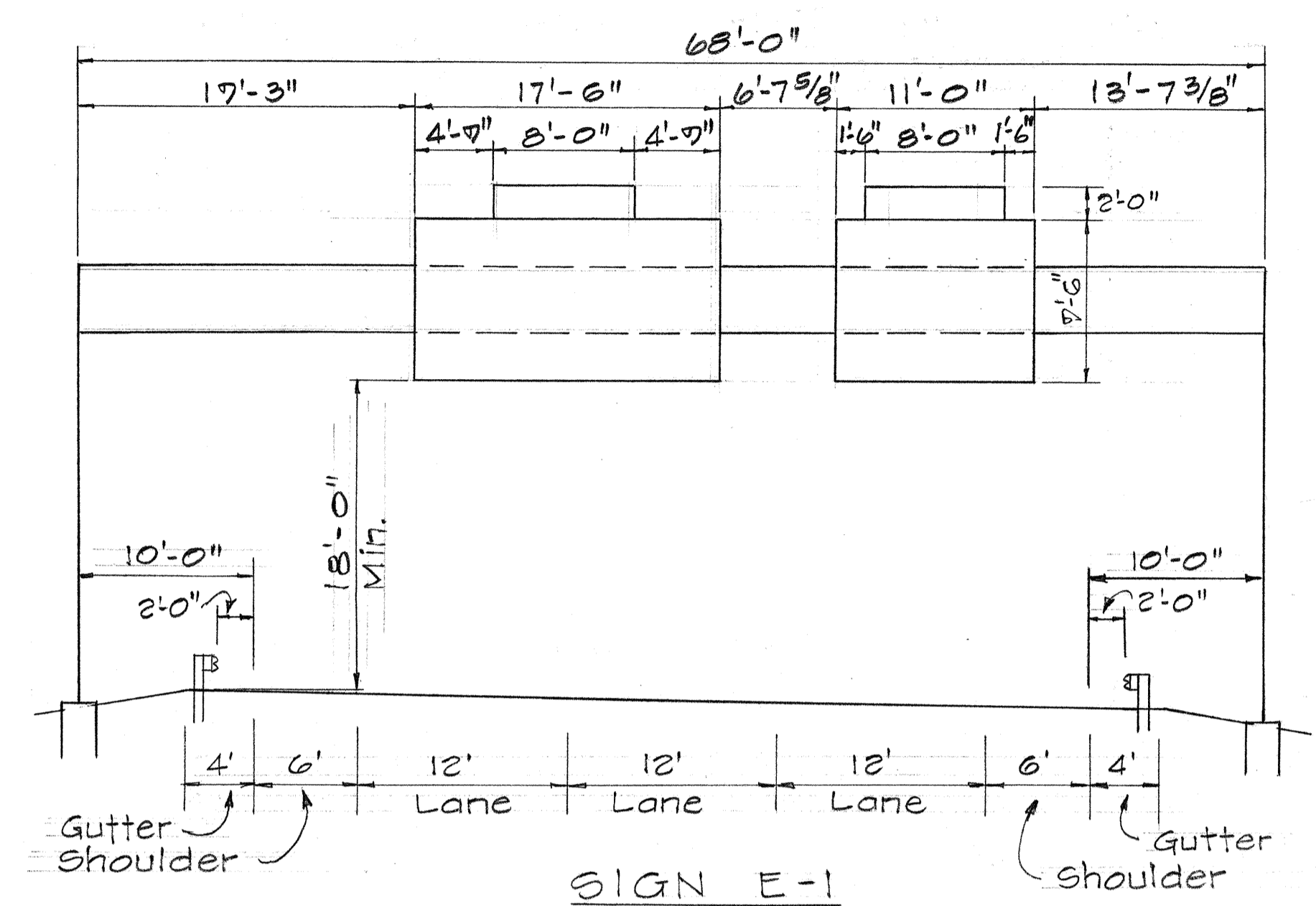
DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NO.	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

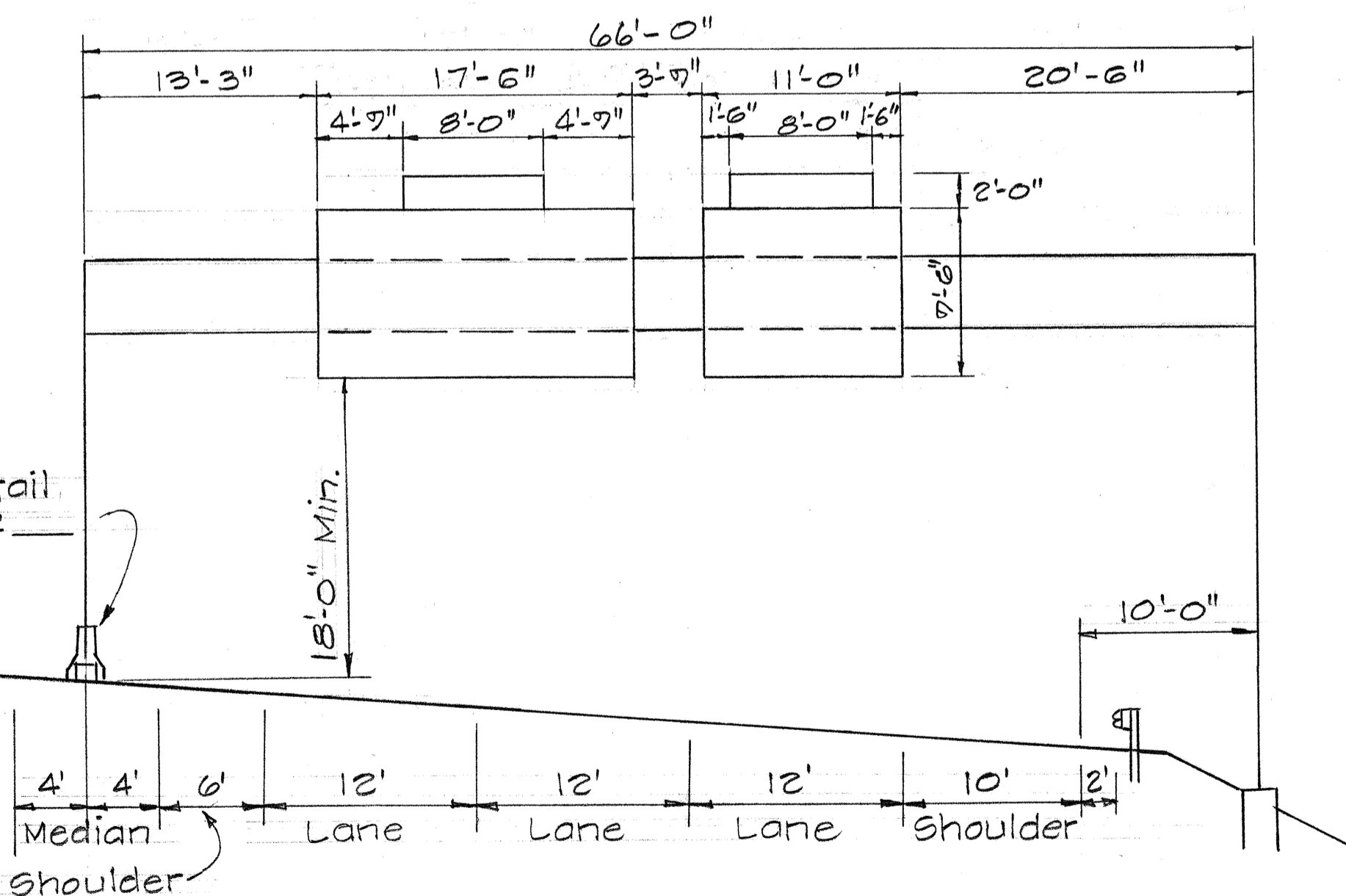
**PANEL LAYOUT**

INTERSTATE ROUTE H-2  
Kipapa Gulch to Waiawa Interchange  
F.A.I. Proj. No. I-H2-1(12):0  
Scale: As Shown Date: April 1973  
SHEET No. 15 OF 34 SHEETS

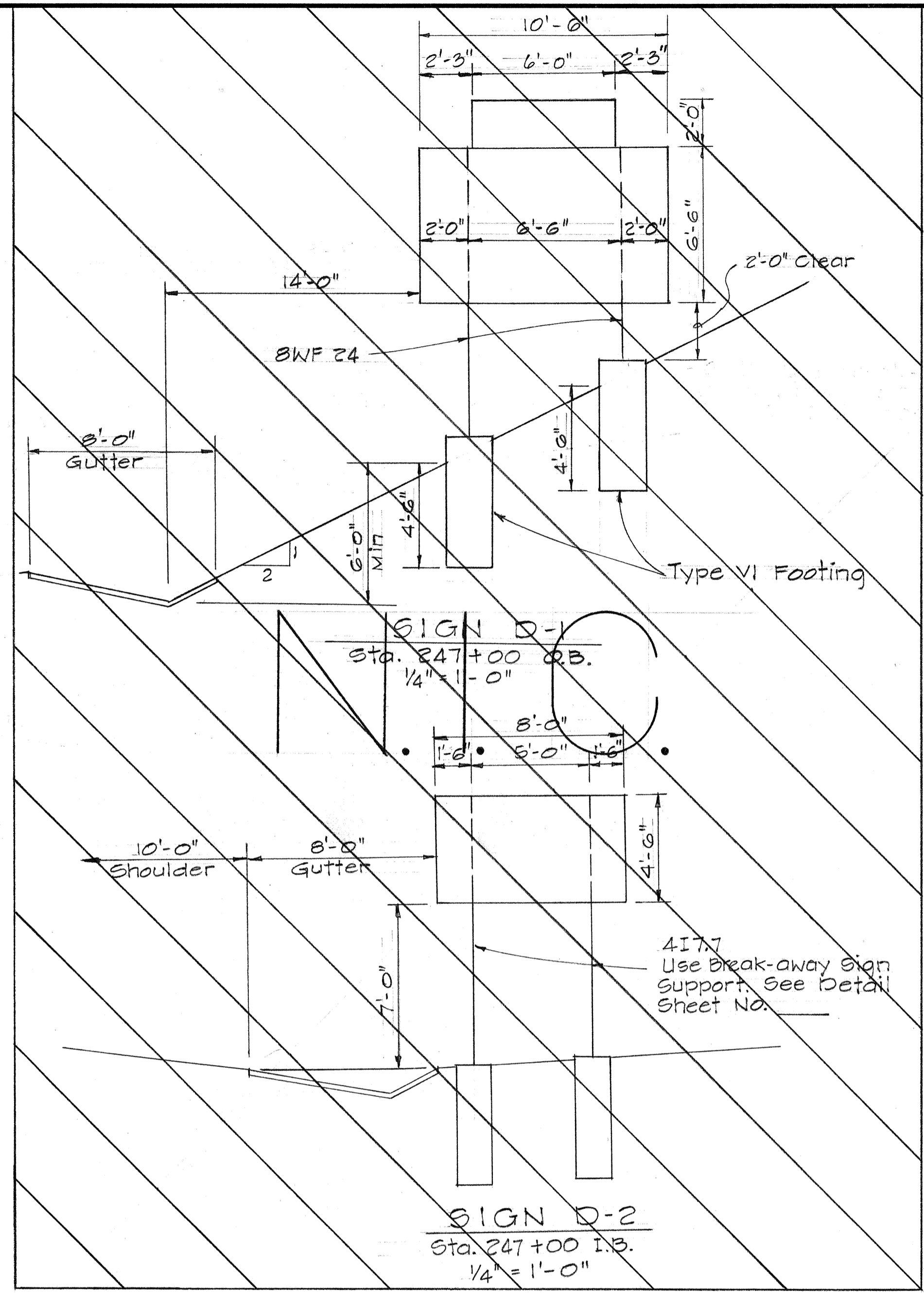
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(12)0	1973	79	171



**SIGN E-1**  
Sta. 376+00 I.B.  
Not to Scale

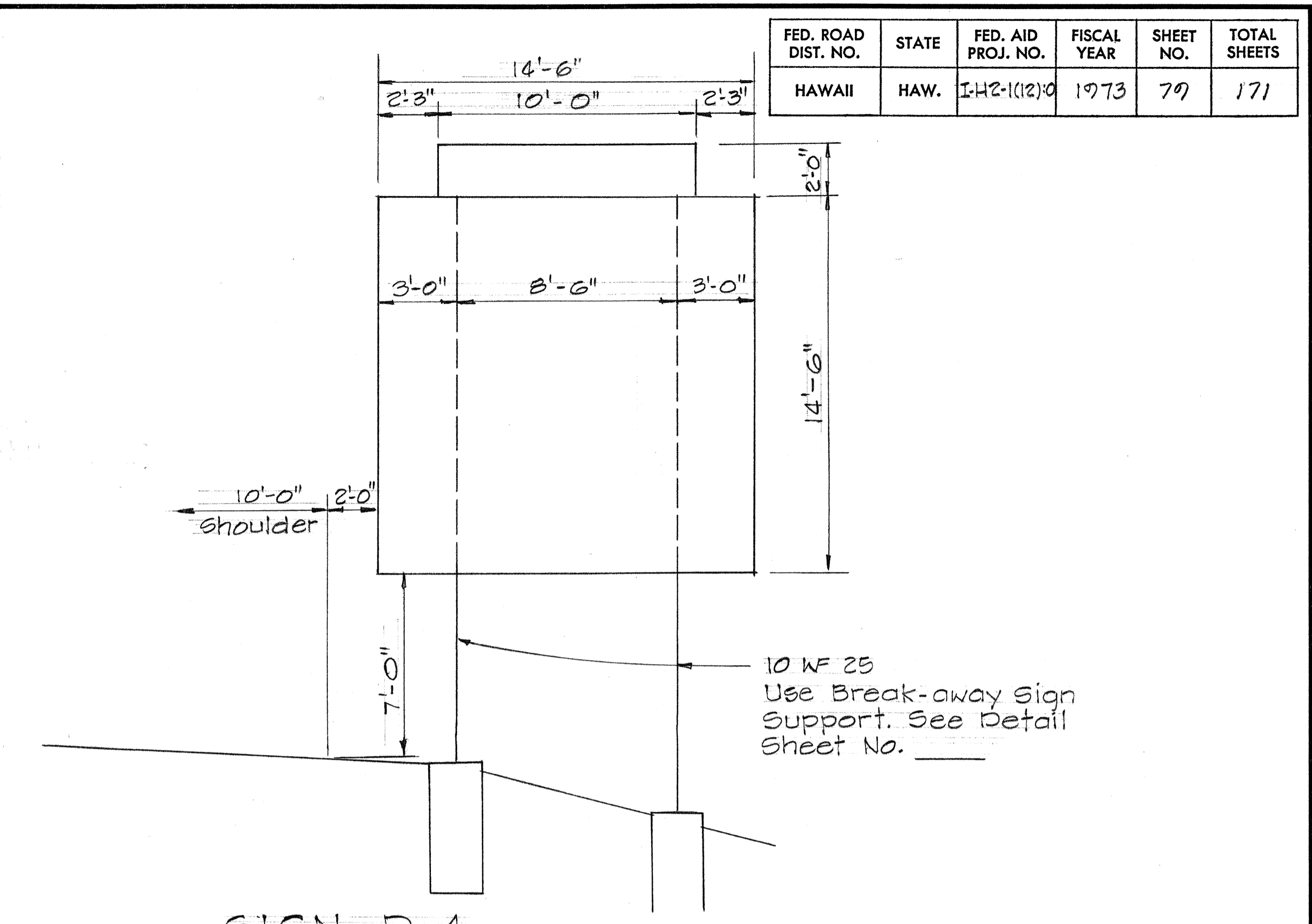


**SIGN E-2**  
Sta. 415+00 I.B.  
Not to Scale

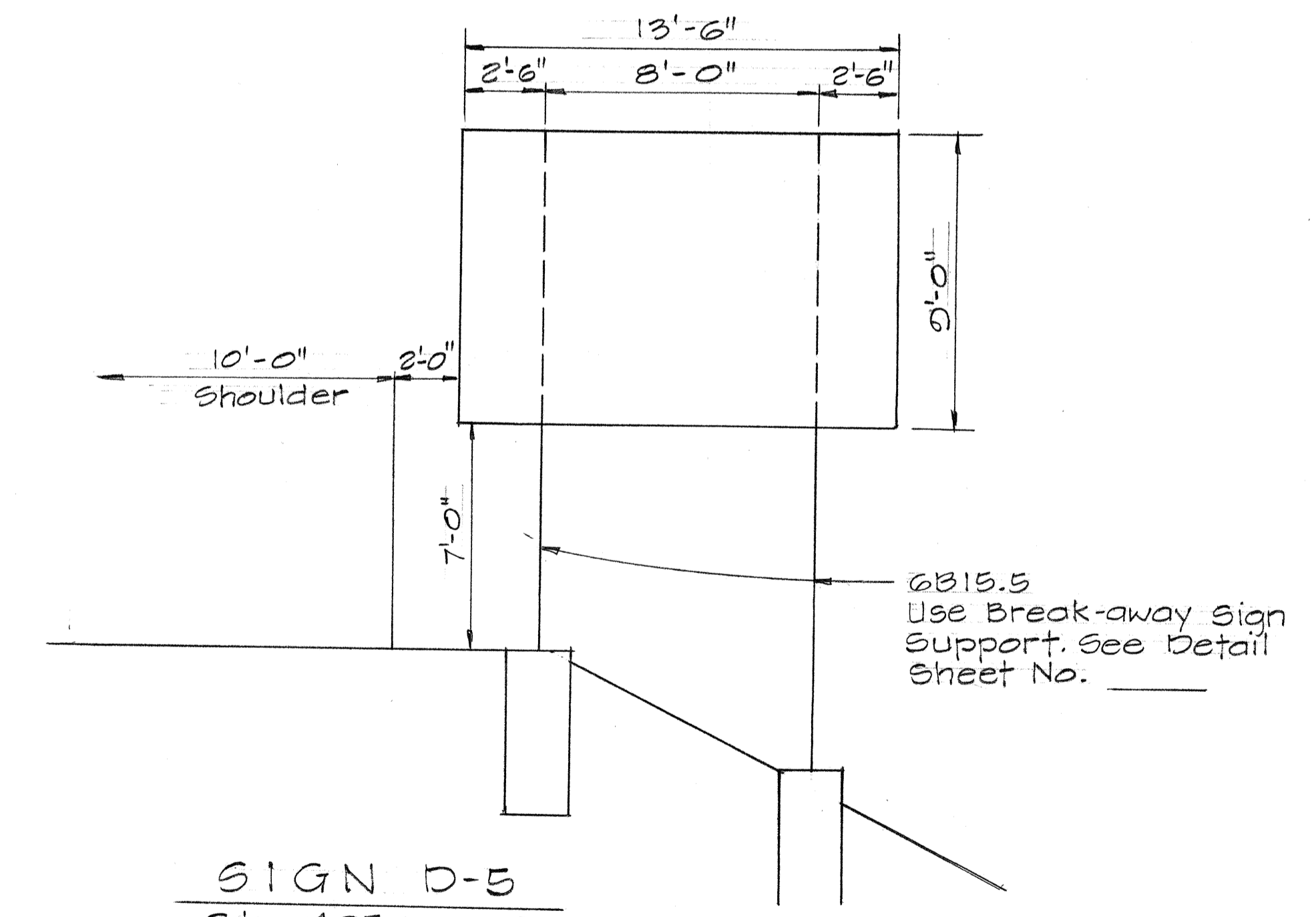


**SIGN D-1**  
Sta. 247+00 O.B.  
1/4" = 1'-0"

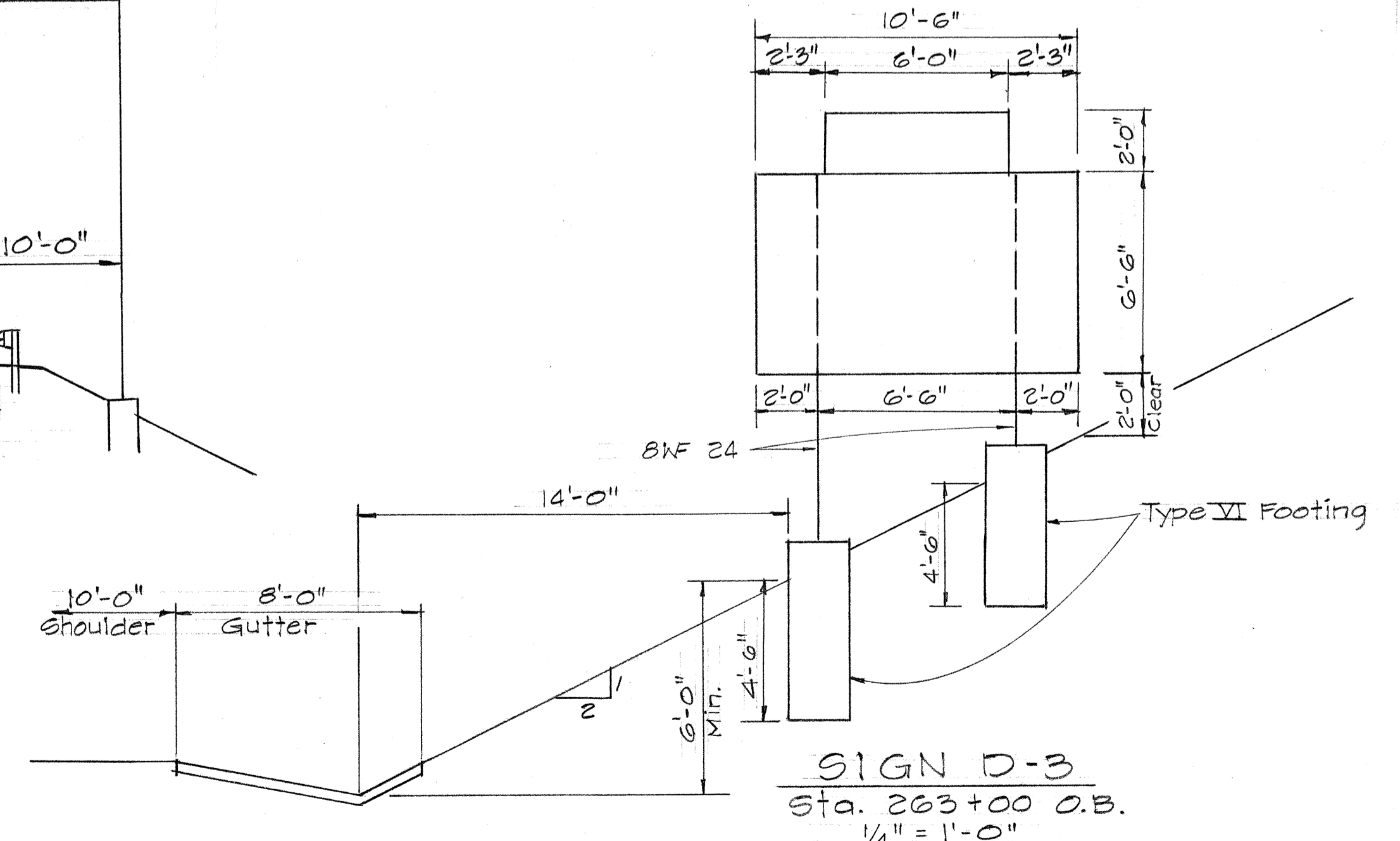
**SIGN D-2**  
Sta. 247+00 I.B.  
1/4" = 1'-0"



**SIGN D-4**  
Sta. 320+00 I.B.  
1/4" = 1'-0"



**SIGN D-5**  
Sta. 403+00 O.B.  
1/4" = 1'-0"



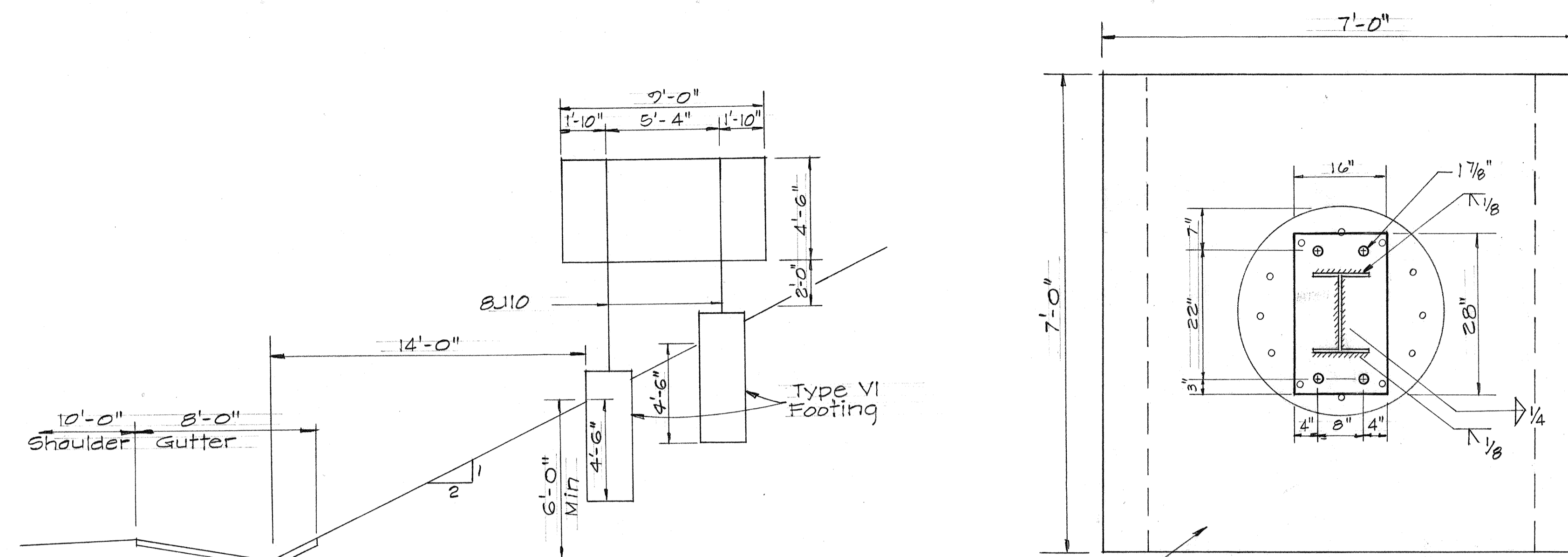
**SIGN D-3**  
Sta. 263+00 O.B.  
1/4" = 1'-0"

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

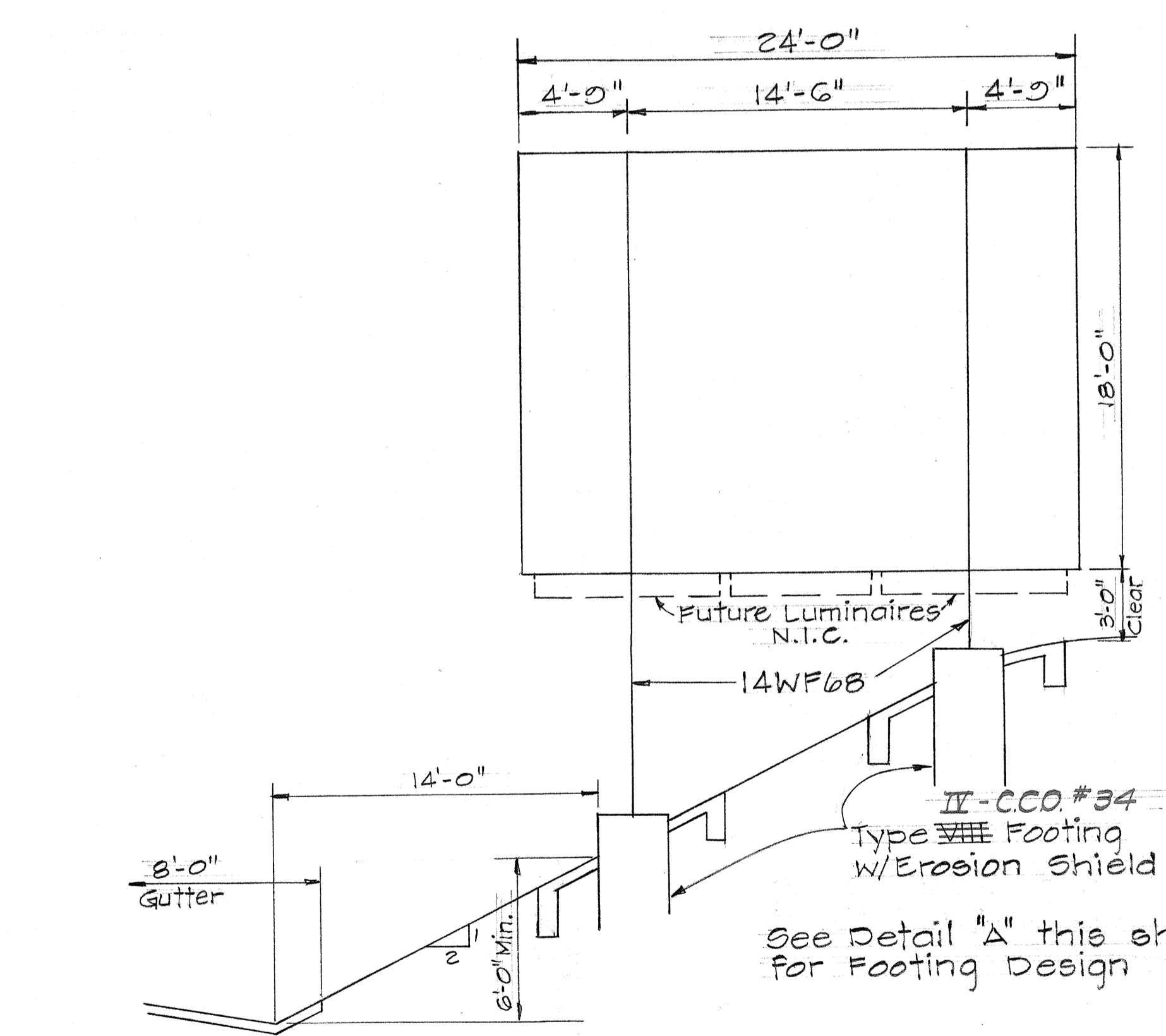
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**FRAME LAYOUT**  
INTERSTATE ROUTE H-2  
Kipapa Gulch to Waiawa Interchange  
F.A.I. Proj. No. I-H2-1(12)0  
Scale: As Shown Date: April 1973  
**SHEET No. 16 OF 34 SHEETS**

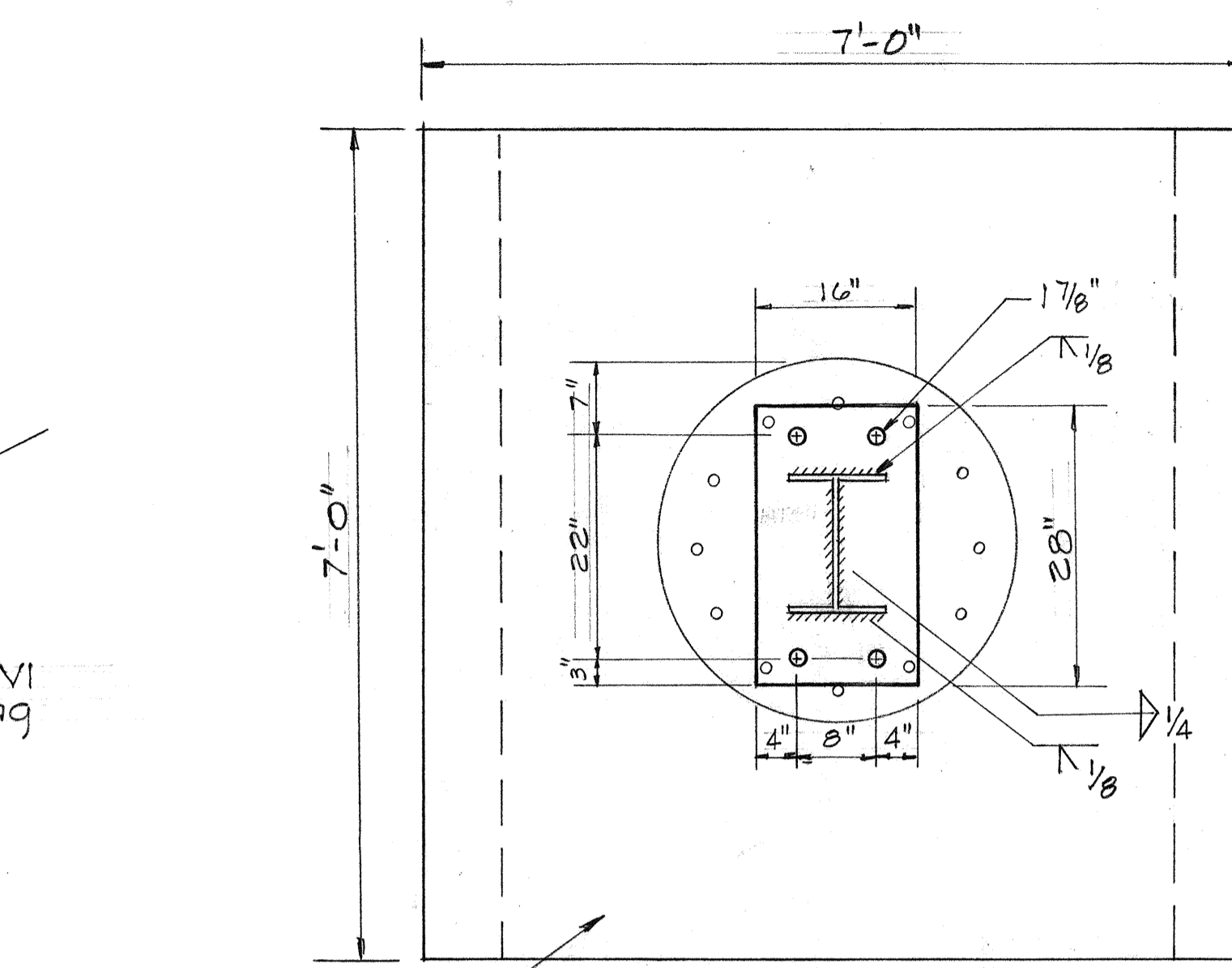
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	EH2-1(12):0	1973	80	171



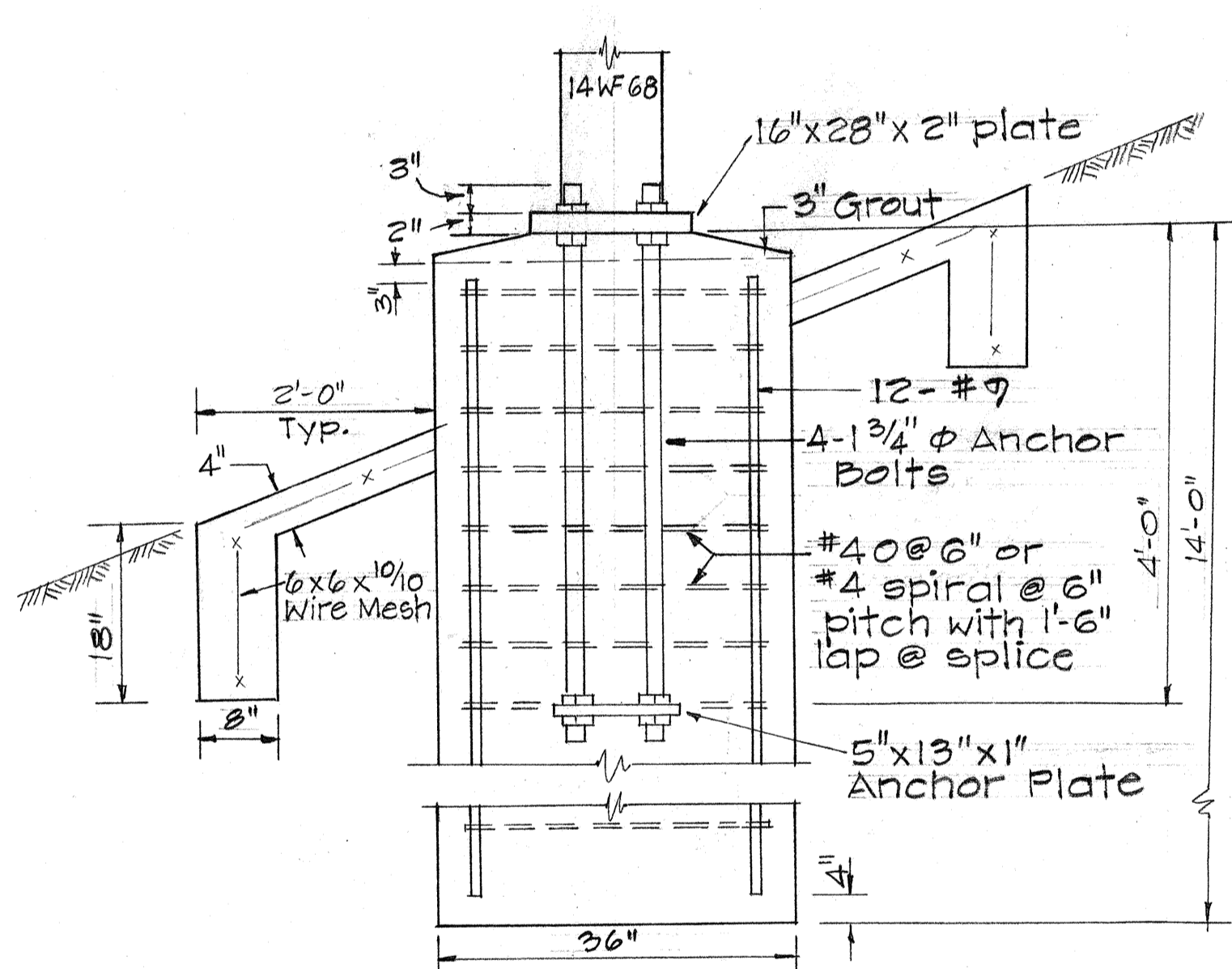
**SIGN D-6**  
Sta. 425+00 O.B.  
1/4" = 1'-0"



**SIGN D-7**  
Sta. 425+00 I.B.  
3/16" = 1'-0"



TOP VIEW



ELEVATION

DETAIL "A"  
TYPE VIII FOOTING  
3/4" = 1'-0"

SIGN NO.	DESCRIPTION	EXIT PANEL		AREA (SQ. FT.)		TOTAL AREA (SQ. FT.)
		SIZE	MILE	SIGN	EXIT PANEL	
E-1(L)	Honolulu	2'x8'	1A	166.25	16.00	182.25
(R)	Waianae 1 Mile	2'x8'	1B	104.50	16.00	120.50
E-2(L)	Honolulu	2'x8'	1A	166.25	16.00	182.25
(R)	Waianae	2'x8'	1B	104.50	16.00	120.50
TOTAL						605.50

SIGN NO.	DESCRIPTION	EXIT PANEL		AREA (SQ. FT.)		TOTAL AREA (SQ. FT.)
		SIZE	MILE	SIGN	EXIT PANEL	
D-1	Mililani 1/2 Mile	2'x6'	5	68.25	12.00	80.25
	Waipahu 4					
	Pearl City 5					
	Honolulu 6					
D-3	Mililani 1 Mile	2'x6'	5	68.25	12.00	80.25
D-4	Honolulu 2 Miles	2'x10'	1A+B	210.25	20.00	230.25
D-5	Waipahu Right Lane			121.50		121.50
	Mililani 4					
D-6	Wheeler AFB 6			40.50		40.50
	Wahiawa 7					
	Honolulu					
D-7	Waianae			432.00		432.00
	Waipahu					
	Pearl City					
TOTAL						904.50

**GENERAL NOTES**

1. Signs are shown in the direction of travel regardless of stationing.
2. Cost for 7'x7' concrete erosion shield shall be considered incidental to payment for Type VIII Footings. Concrete erosion shield shall conform to requirements of Section 603-Sidewalks.

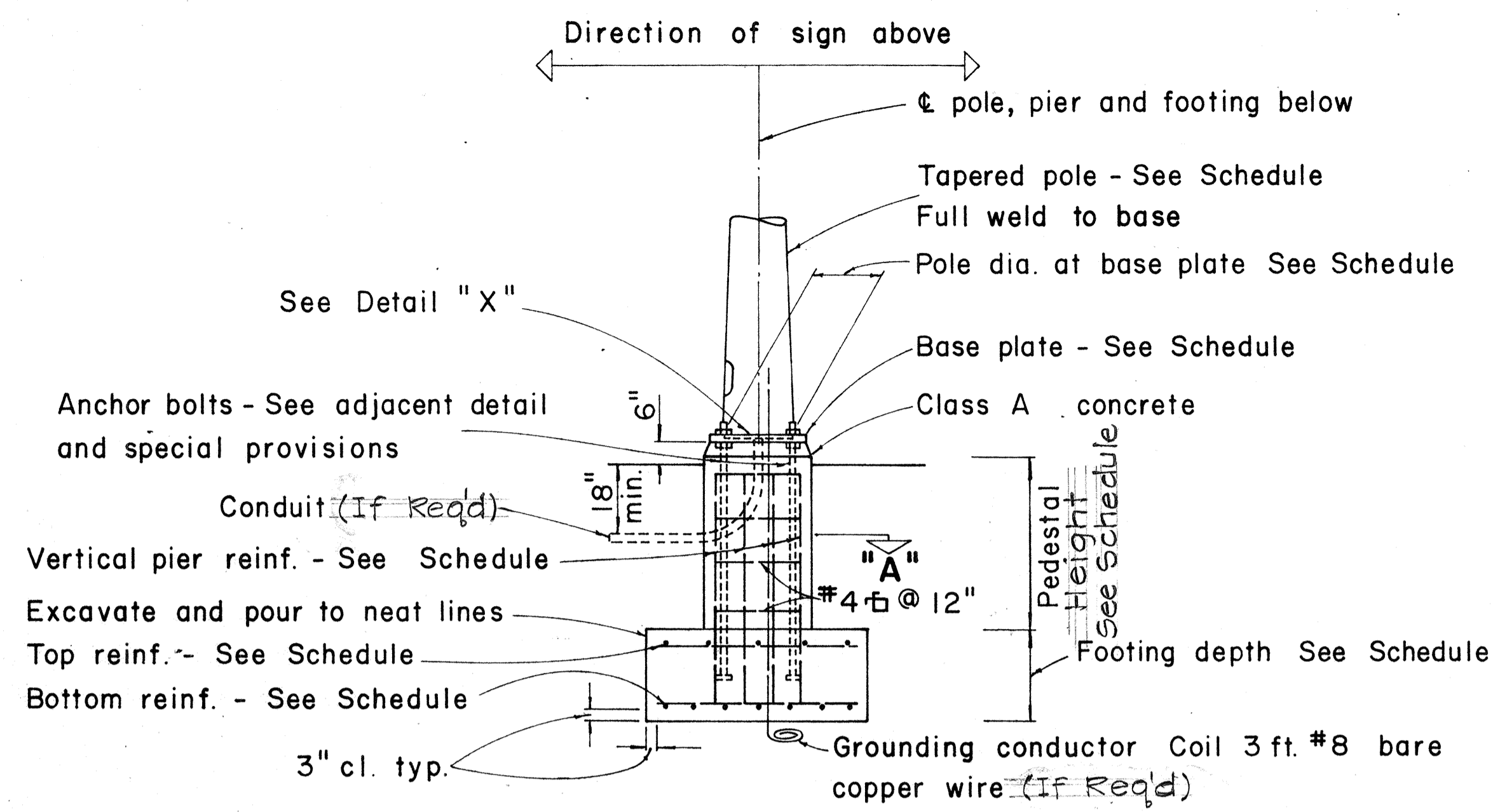
DATE	
DESIGNED BY	
DRAWN BY	
CHECKED BY	
ORIGINAL FILED	
NOTE BOOK No.	

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

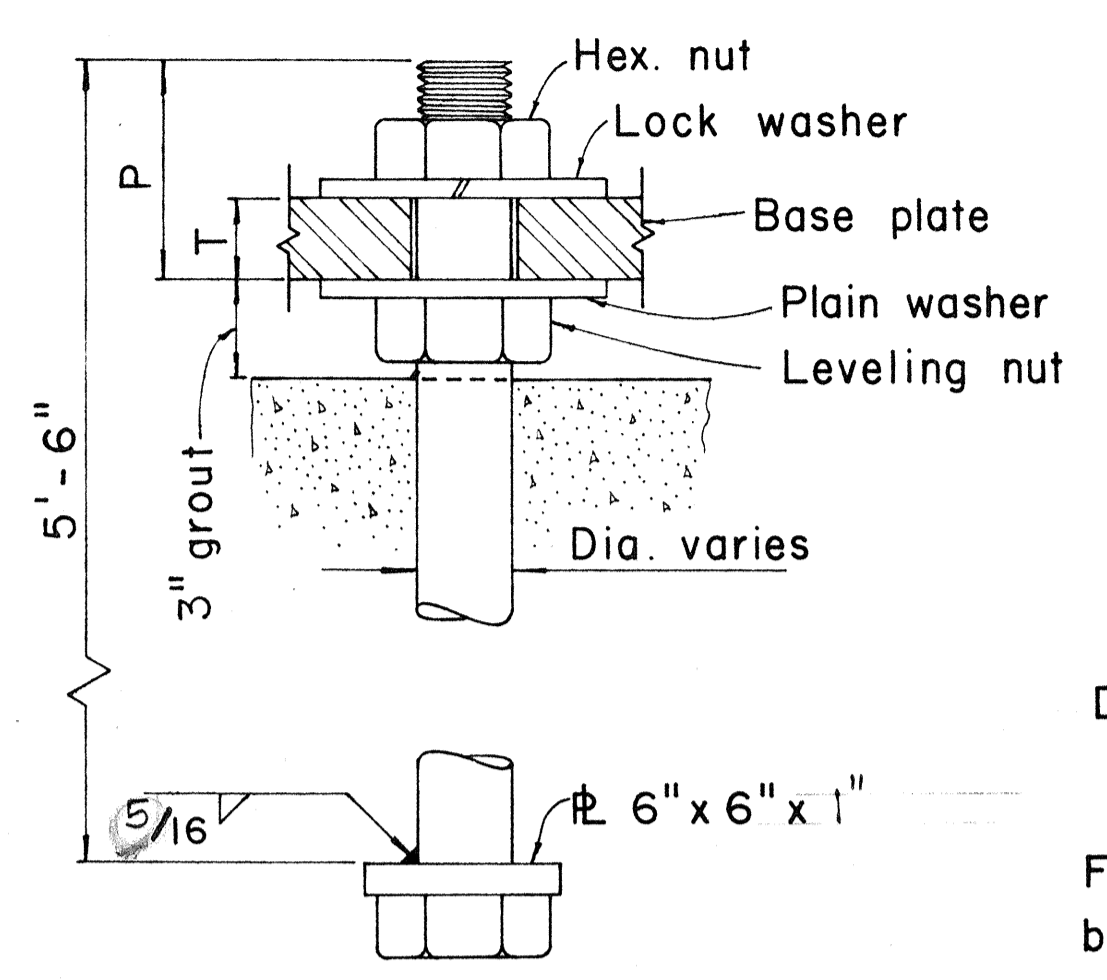
**FRAME LAYOUT**

INTERSTATE ROUTE H-2  
Kipapa Gulch to Waiawa Interchange  
F.A.I. Proj. No. I-H2-1(12):0  
Scale: As Shown Date: April 1973  
**SHEET No. 17 OF 34 SHEETS**

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(12)0	1973	81	171

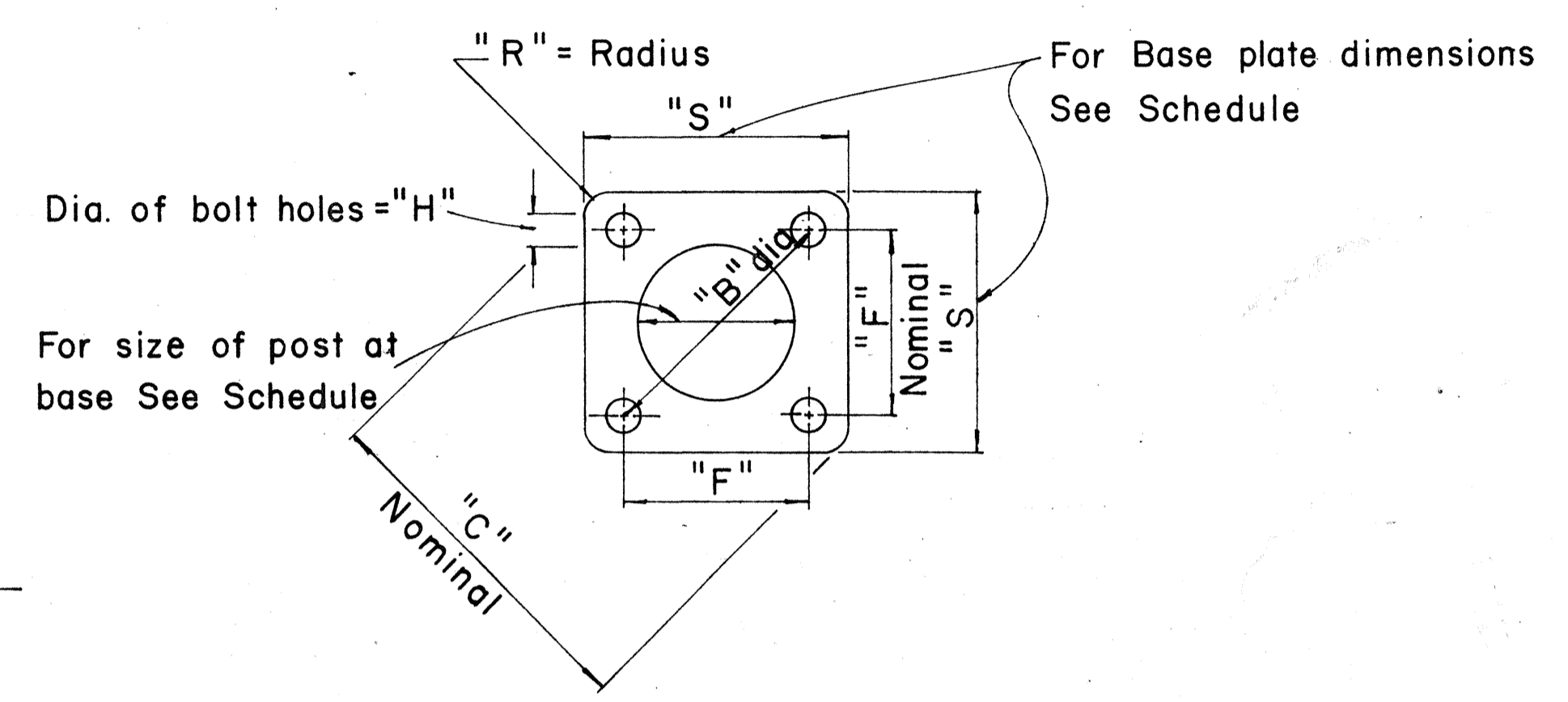


**TYPICAL POLE FOUNDATION DETAIL**

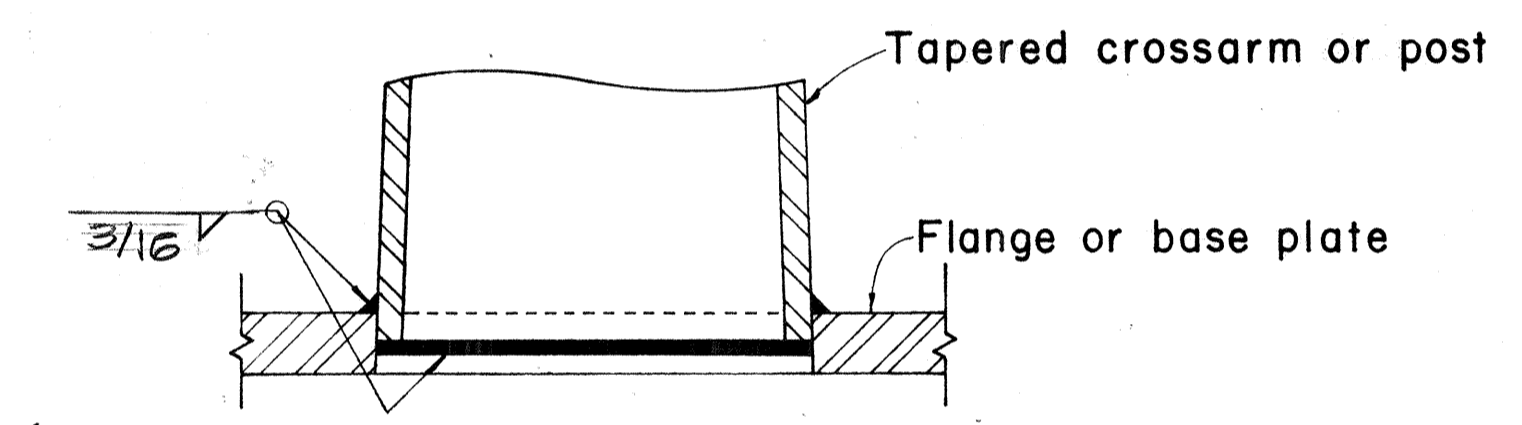


**TYPICAL ANCHOR BOLT 4 REQ'D**

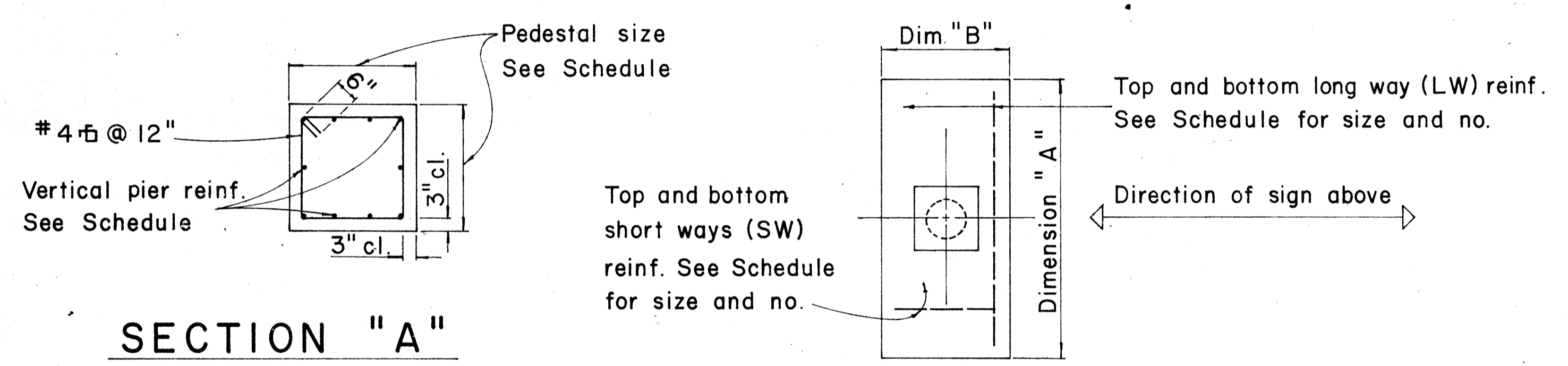
BASE PLATE SCHEDULE										
Gage No.	Post Dia.	B	C	F	H	P	R	S	T	Bolt Dia.
0	18"	25 1/2"	33"	18"	27 1/8"	4 3/4"	5 1/2"	26 1/2"	2 1/2"	2 1/4"



**TYPICAL BASE PLATE**



**DETAIL "X"**



**SECTION "A"**

**TYPICAL FOOTING DETAIL**

Type	Dimension		Depth	Bot Reinf.		Top Reinf.		Pedestal		
	A	B		L.W.	S.W.	L.W.	S.W.	Size	Vert. Reinf.	Height
	I	7'-0"		3'-0"	2'-0"	3-#6	8-#4	#4 @ 12 each way		1'-11"
II	9'-0"	4'-6"	2'-0"	6-#6	10-#4	Do.		2'-6"	10-#7	
III	10'-0"	5'-0"	2'-0"	5-#8	11-#4	Do.		2'-6"	10-#8	
IV	12'-0"	6'-0"	2'-0"	7-#9	13-#4	Do.		2'-9"	10-#10	
V	14'-0"	7'-0"	2'-0"	8-#11	19-#4	Do.		2'-9"	10-#11	3'-7"
V-A	14'-0"	7'-0"	2'-0"	12-#7	17-#4	Do.		2'-7"	10-#11	4'-7"
V-B	14'-0"	7'-0"	2'-0"	12-#7	17-#4	Do.		2'-7"	10-#11	6'-6"

TYPE D TWO TUBE TRUSS SPAN						
Sign No.	Station	Cross Beams	POSTS LEFT & RIGHT	BASE PLATE	PEDESTAL & FOOTING	
					LEFT	RIGHT
E-1	376+00	3 Ga. 13"	0 Ga. 18"	26 1/2" x 26 1/2" x 2 1/2"	V	V
E-2	415+00	3 Ga. 13"	0 Ga. 18"	26 1/2" x 26 1/2" x 2 1/2"	V-A	V-B

SURVEY PLOTTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 ORIGINAL PLAN: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 No. \_\_\_\_\_

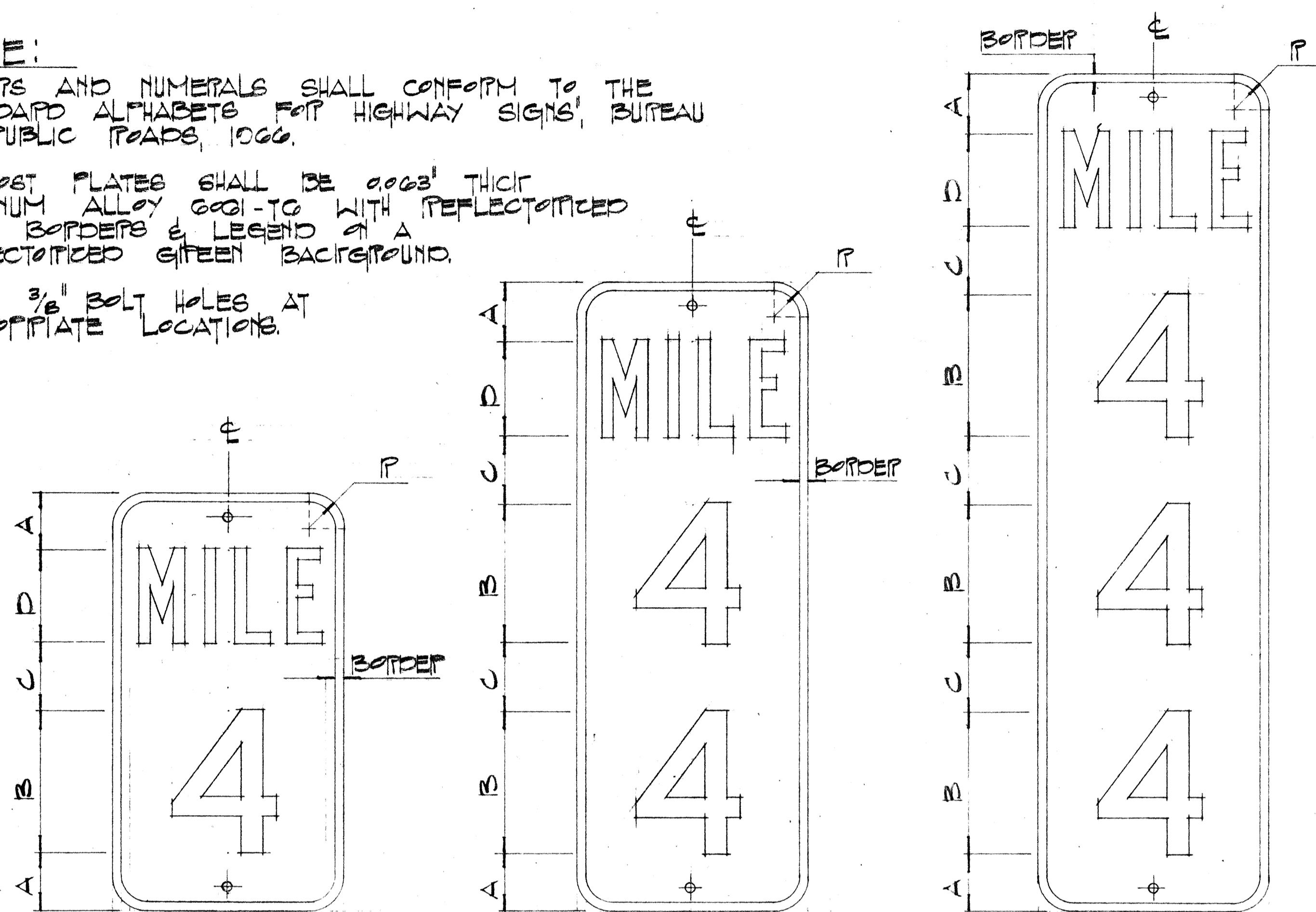
STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION  
**POSTS AND CROSSARMS**  
**DETAILS & SCHEDULES**  
 INTERSTATE ROUTE H-2  
 Kipapa Gulch to Waiawa Interchange  
 F.A.I. Proj. No. I-H2-1(12):0  
 NOT TO SCALE DATE: APRIL 1973  
**SHEET No. 18 OF 34 SHEETS**



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	H-2 (12) 0	1973	20	171

**NOTE:**

- LETTERS AND NUMERALS SHALL CONFORM TO THE 'STANDARD ALPHABETS FOR HIGHWAY SIGNS', BUREAU OF PUBLIC ROADS, 1966.
- MILEPOST PLATES SHALL BE .003" THICK ALUMINUM ALLOY 6061-T6 WITH REFLECTORIZED WHITE BORDERS & LEGEND ON A REFLECTORIZED GREEN BACKGROUND.
- DRILL  $\frac{3}{8}$ " BOLT HOLES AT APPROPRIATE LOCATIONS.

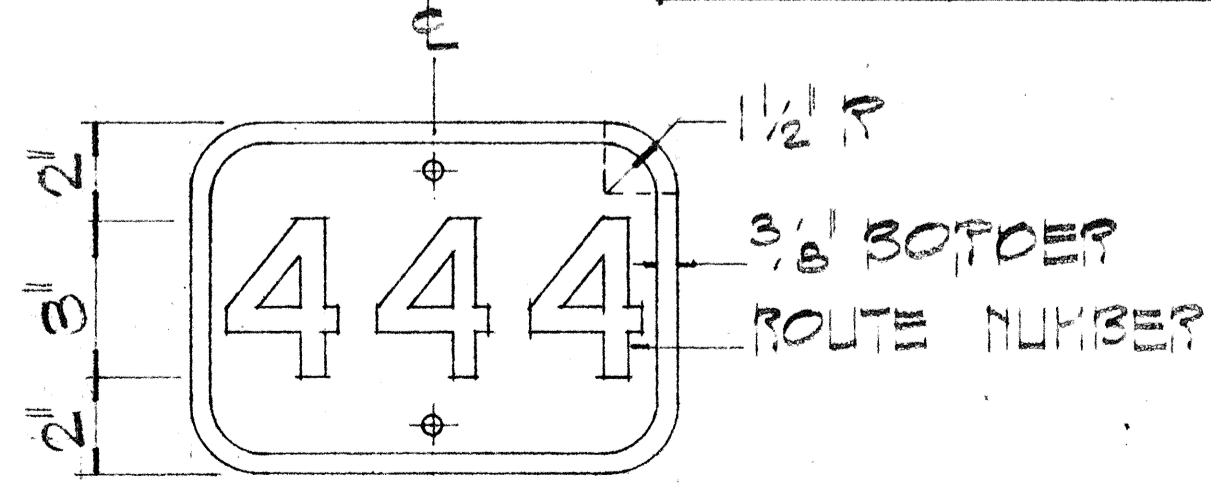


D10-1 10' x 18"  
 D12-1 12' x 24"  
 D10-2 10' x 27"  
 D12-2 12' x 36"  
 D10-3 10' x 36"  
 D12-3 12' x 48"

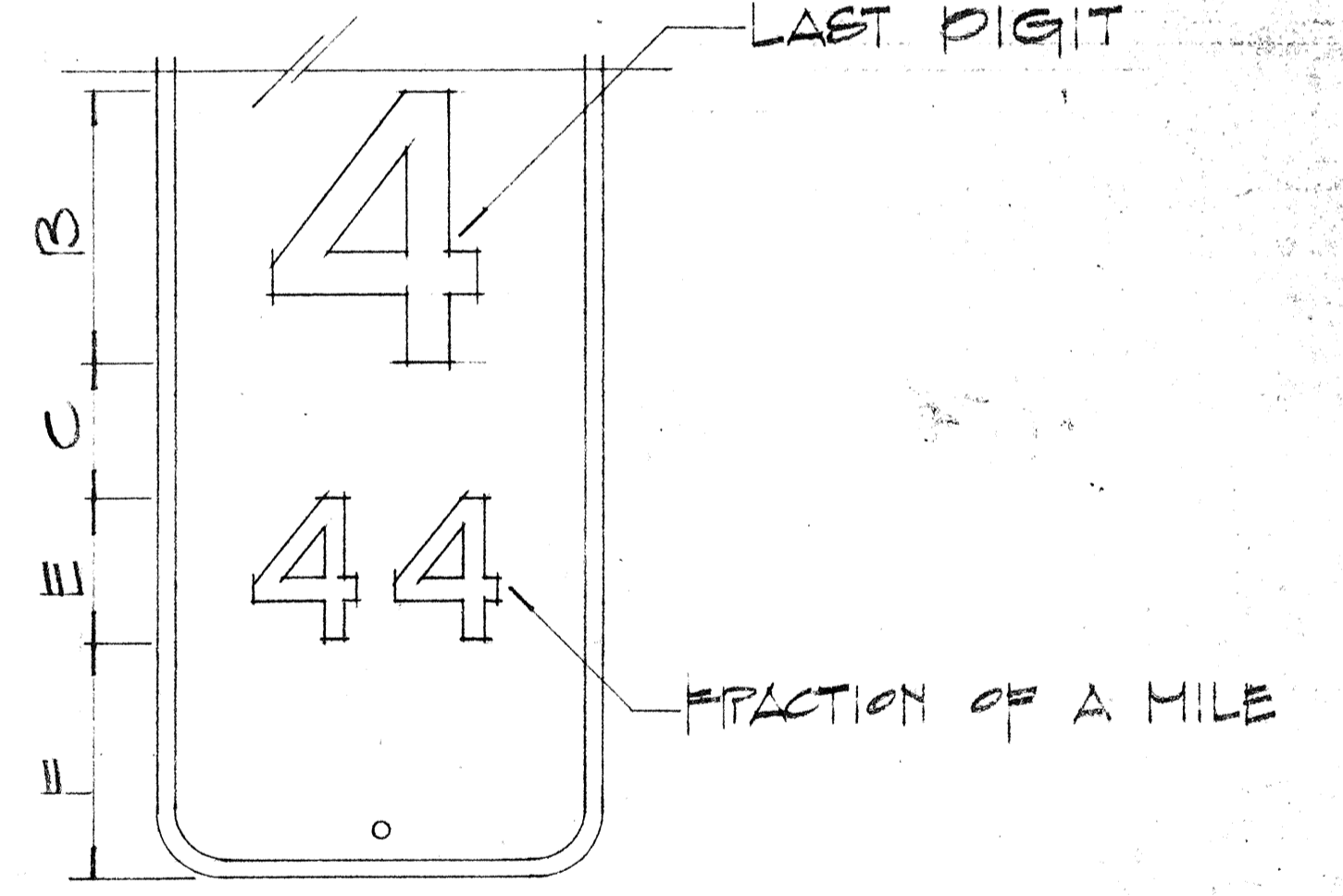
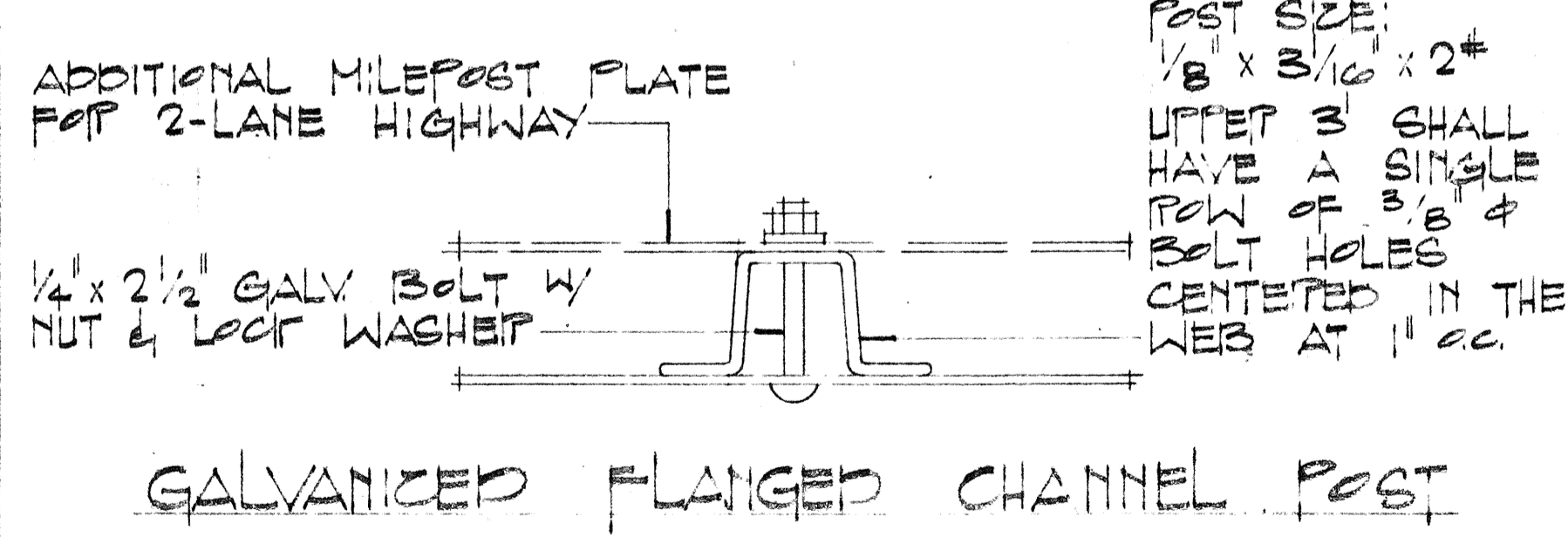
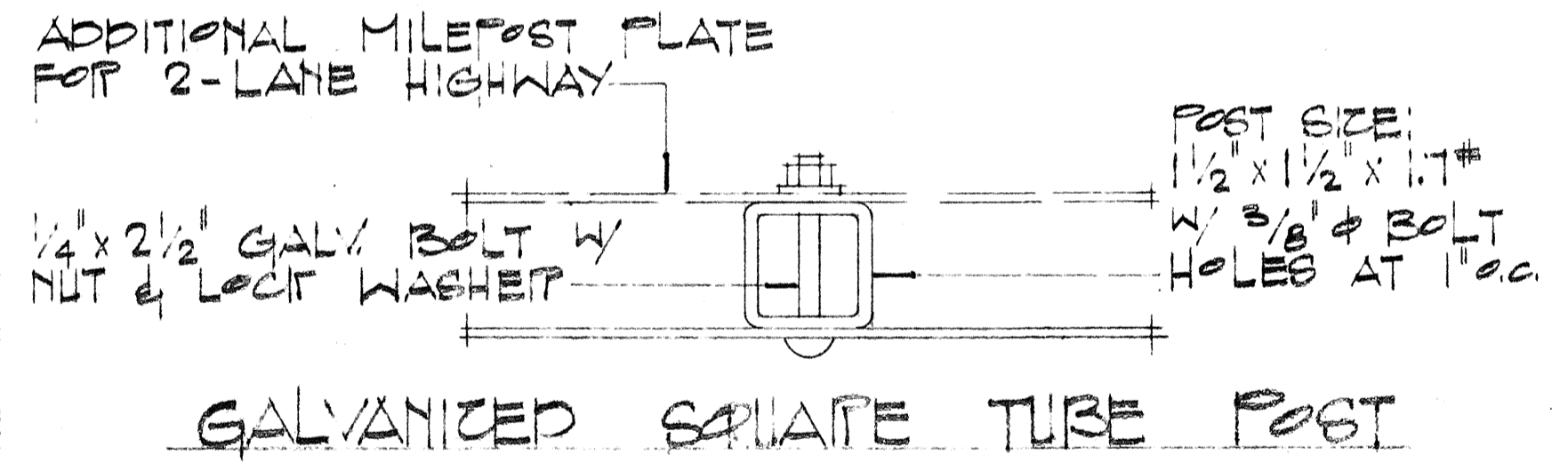
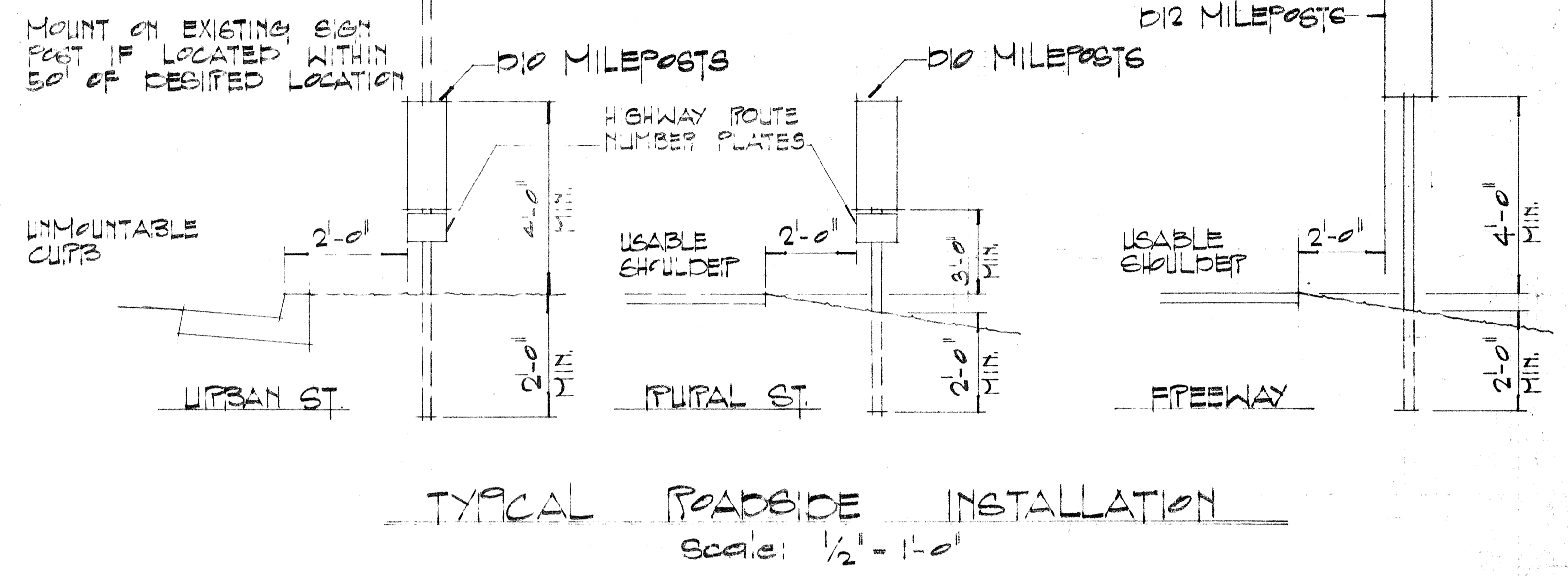
**MILEPOST PLATES**  
 Scale: 1/4" = 1"

NAME	SIZE	A	B	C	D	R	BORDER	LETTER SERIES	NUMERAL SERIES
D10-1 D12-1	10 x 18 12 x 24	2 1/2 3	6 10	3 3	4 5	1/2	3/8	B	D
D10-2 D12-2	10 x 27 12 x 36	2 1/2 2 1/2	6 10	3 3	4 5	1/2	3/8	B	D
D10-3 D12-3	10 x 36 12 x 48	2 1/2 2	6 10	3 3	4 5	1/2	3/8	B	D

**NOTE:**  
 HIGHWAY ROUTE NUMBER PLATES FOR URBAN & RURAL STREET MILEPOSTS SHALL BE .003" THICK ALUMINUM ALLOY 6061-T6 WITH BLACK NUMERALS & BORDERS ON A REFLECTORIZED WHITE BACKGROUND.



D10-7 10' x 7"  
**HIGHWAY ROUTE NUMBER PLATE**  
 (FOR URBAN & RURAL STREET MILEPOSTS)



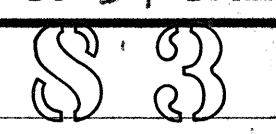
NAME	SIZE	B	C	E	F	NUMERAL SERIES
D10-1F D12-1F	10' x 27" 12' x 36"	10"	10"	10"	5 1/2"	D
D10-2F D12-2F	10' x 36" 12' x 48"	10"	10"	10"	5 1/2"	D
D10-3F D12-3F	10' x 48" 12' x 66"	10"	10"	10"	5 1/2"	D

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

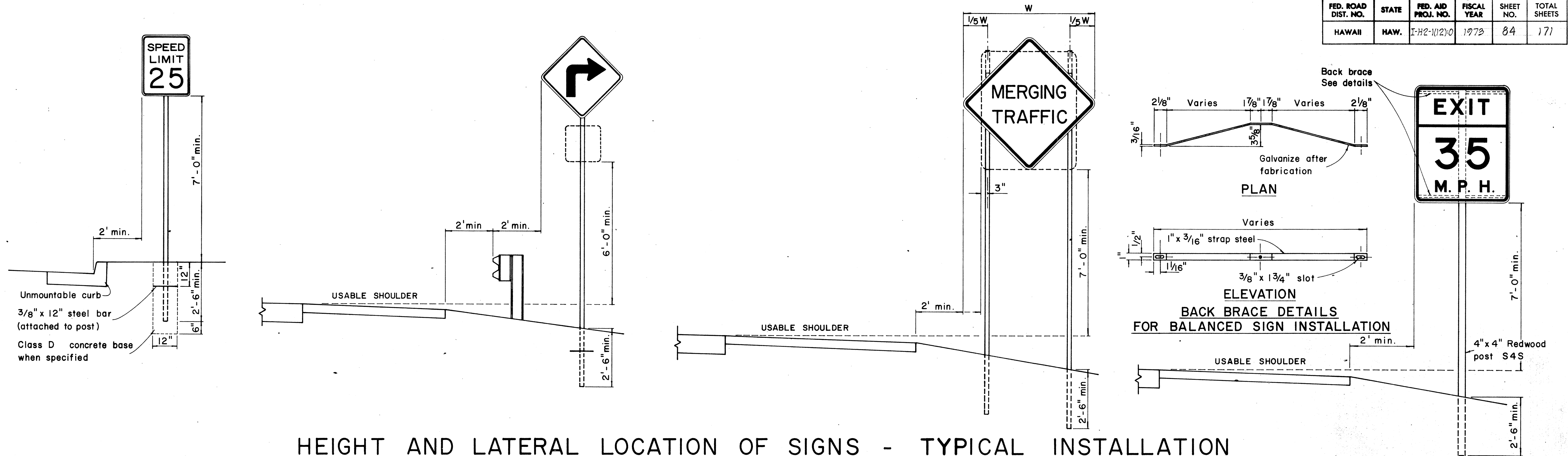
**MILEPOSTS**  
 INTERSTATE ROUTE H-2  
 Kipapa Gulch to Waiawa Interchange  
 F.A.I. PROJ. No. I-H2-1 (12) 0  
 Scale: As Shown January 1972

No.	REVISION	APPROVED BY	DATE

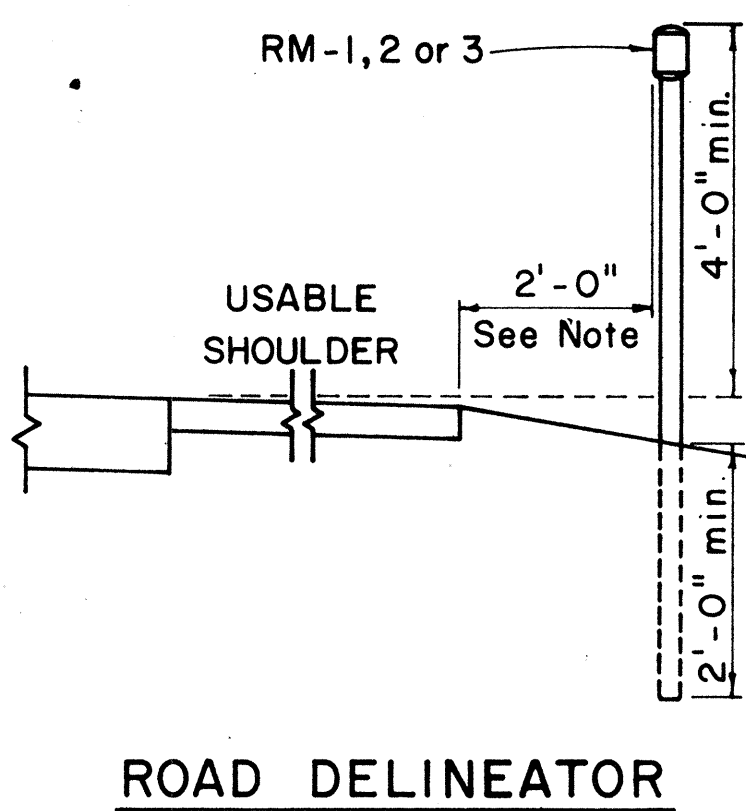
DATE: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 ORIGINAL PLAN: \_\_\_\_\_  
 NO. \_\_\_\_\_



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-12-102-0	1973	84	171

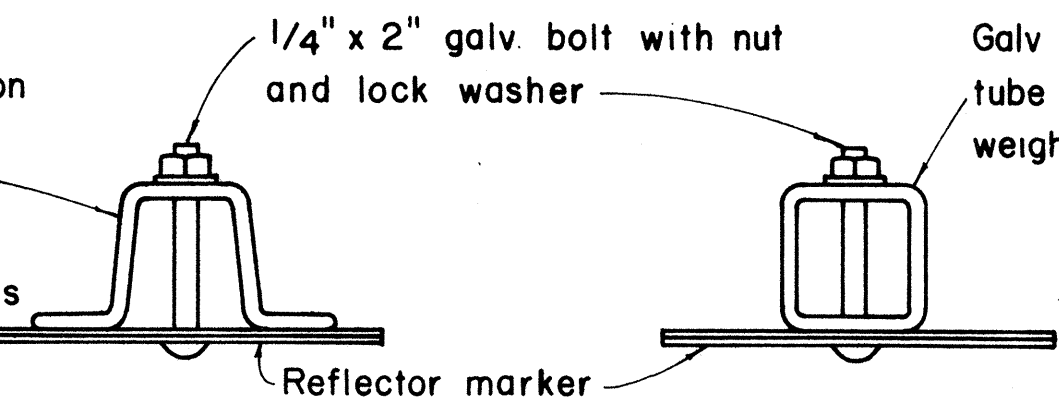


## HEIGHT AND LATERAL LOCATION OF SIGNS - TYPICAL INSTALLATION

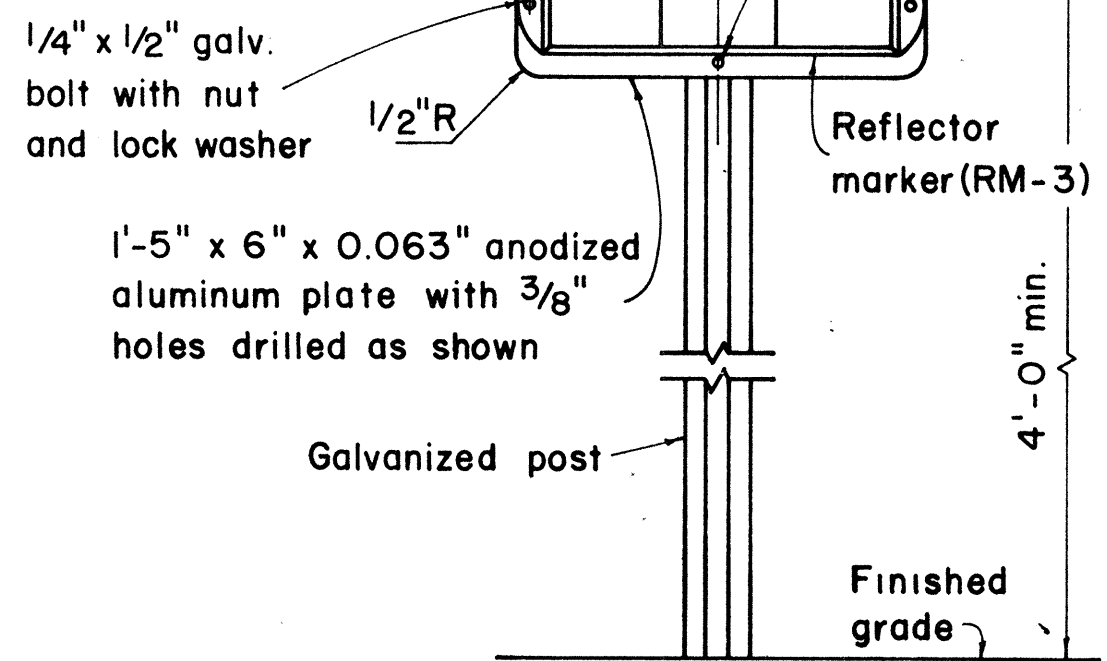


Galv. flanged channel 1/8" x 3/16" rolled section post with a minimum weight of 2 lbs. per ft.. Upper 2 ft shall have a single row of 3/8" holes centered in the web at 1" o.c.

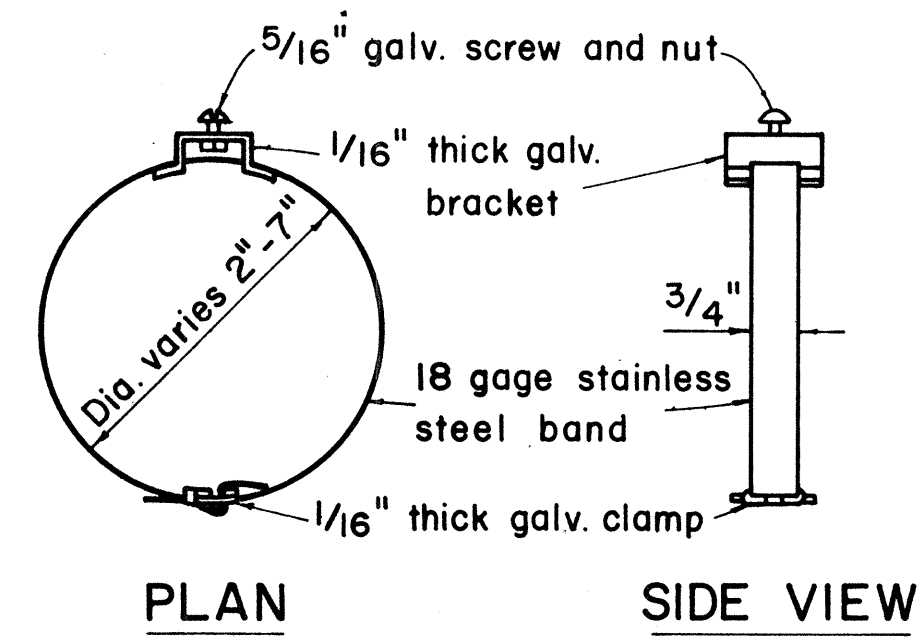
TYPICAL SECTION OF ROAD DELINEATOR



1/4" x 2" galv. bolt with nut and lock washer  
Galv 1/2" x 1/2" square tube post with a minimum weight of 1.7 lbs per ft



TYPICAL DETAIL  
HORIZONTAL REFLECTOR MARKER  
RM-3H



PLAN  
SIDE VIEW  
FRONT VIEW

- GENERAL NOTES:**
- Sign posts shall be 2" galv. standard pipe or 2" x 2" galv. sq. tube post.
  - Signs 48" and wider or larger than 10 sq. ft. in area shall be mounted on two 2" galv. standard pipe or two 2" x 2" galv. sq. tube post or 4" x 4" redwood post S4S.
  - Signs shall be attached to post with 5/16" galv. bolts with nuts and 7/8" x 0.06 stainless steel washers with neoprene rubber gasket.
  - Sign posts shall extend 3 1/2" above sign where required for City and County street name signs.
  - Reflector markers RM-1, 2, 3 shall be glass sphere reflector markers with 4" x 5" reflector units (as shown) or plastic prismatic reflector markers with 3" diameter reflector units.
  - Clearance markers (RM-3, RM-4) shall be installed with the edge of the marker in line with the inner edge of the obstruction.
  - (R) or (L) indicates right or left and shall be as shown on the plans.

APPROVAL RECOMMENDED:  
*E. Ichi Tanaka* 12/29/69  
TRAFFIC ENGINEER DATE

APPROVED:  
*John J. DeSanti* 12-30-69  
ASSISTANT CHIEF, ENGINEERING DATE

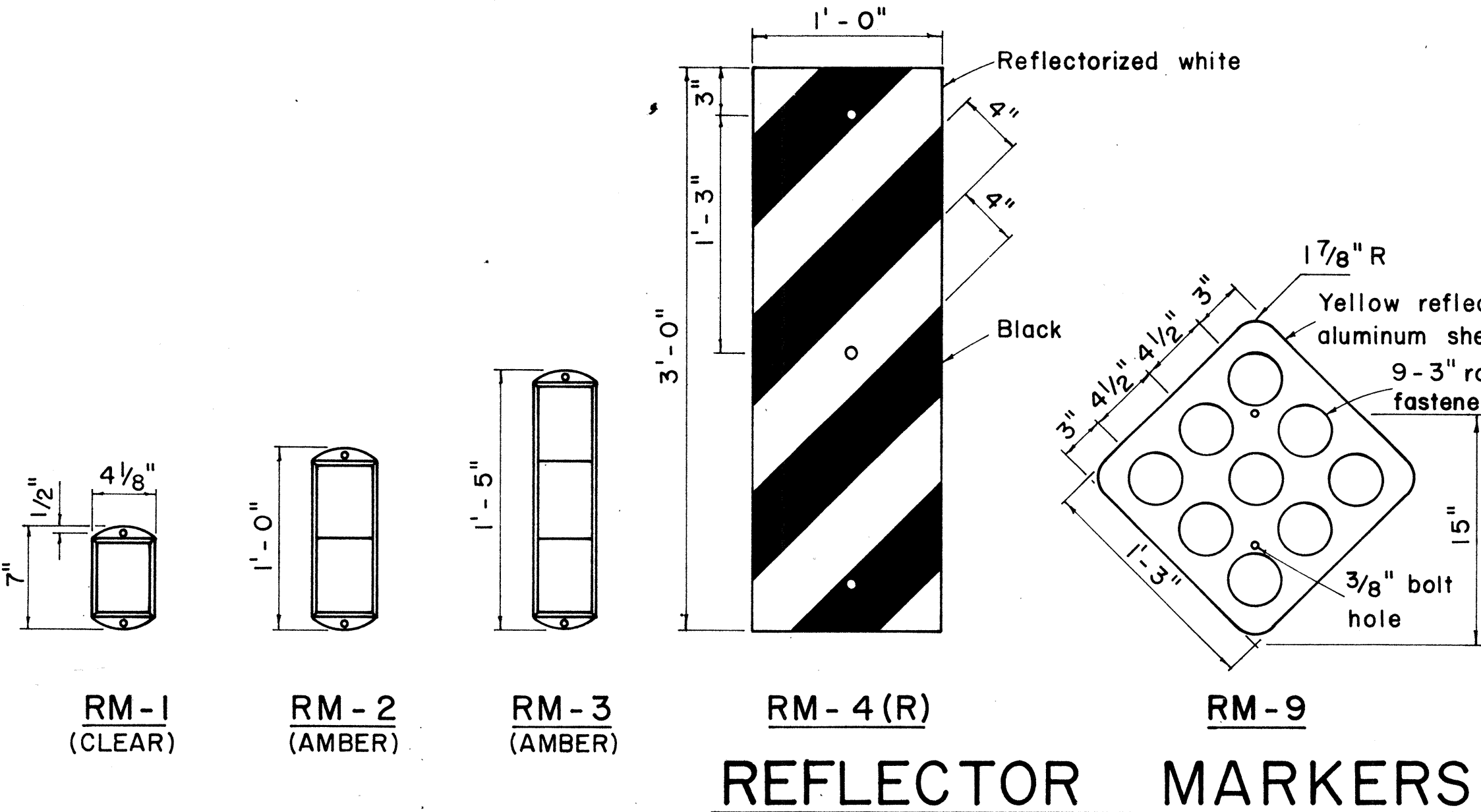
NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**STANDARD DETAILS**  
MISCELLANEOUS SIGN DETAILS

Not to scale March, 1968

SHEET No. 21 OF 34 SHEETS DT 100



REFLECTOR MARKERS

SURVEY PLOTTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 ORIGINAL DRAWN BY: \_\_\_\_\_  
 TRACED BY: \_\_\_\_\_  
 NOTE BOOK QUANTITIES BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-42-1(12)0	1979	85	171

R1-1 30" x 30"  
R1-1-A 36" x 36"  
4-WAY  
R1-3 12" x 6"  
R1-3-A 18" x 9"

R1-2 36" x 36" x 36"  
R1-2-A 48" x 48" x 48"

R2-1(50) 24" x 30"  
R2-1(50)-A 48" x 60"

R2-2(40) 24" x 24"  
R2-2(40)-A 48" x 48"

R2-4a(50/40) 24" x 48"  
R2-4a(50/40)-A 48" x 96"

R2-5b(30) 24" x 30"  
R2-5b(30)-A 48" x 60"

R3-1 24" x 24"  
24" x 18"  
R3-1-A 48" x 48"  
48" x 36"

R3-2 24" x 24"  
24" x 18"  
R3-2-A 48" x 48"  
48" x 36"

R3-3 24" x 24"  
R3-3-A 48" x 48"

R3-4 24" x 24"  
24" x 18"  
R3-4-A 48" x 48"  
48" x 36"

R3-5(L) 30" x 36"  
R3-5(L)-A 48" x 60"

R3-6(L) 30" x 36"  
R3-6(L)-A 48" x 60"

R3-7(R) 30" x 30"  
R3-7(R)-A 48" x 48"

R3-8(L) 30" x 30"  
R3-8(L)-A 36" x 36"  
R3-8(L)-B 48" x 48"

R3-9 24" x 30"

R4-1 24" x 30"

R4-2 24" x 30"

R4-3 24" x 30"  
R4-3-A 48" x 60"

R4-5 24" x 30"

R4-6(500) 24" x 30"

R4-7 24" x 30"  
24" x 18"

R4-8 24" x 30"  
24" x 18"

R5-1 30" x 30"  
R5-1-A 48" x 48"

R5-2 24" x 24"  
24" x 18"

R5-4 24" x 30"

R5-6 24" x 24"  
24" x 18"

R5-9 36" x 24"

R6-1(R) 36" x 12"

R6-2(R) 18" x 24"

R7-1 12" x 18"  
R7-1-A 24" x 30"

R7-4 12" x 18"  
R7-4-A 24" x 30"

R7-107(R) 12" x 18"

R7-108 12" x 18"

R7-201 12" x 6"  
R7-201-A 24" x 12"

R8-1 24" x 30"

R8-2 24" x 30"

R8-3 24" x 30"

R8-4 30" x 24"  
R8-4-A 48" x 36"

R8-5 24" x 30"

R8-6 24" x 30"

R8-7 30" x 24"  
R8-7-A 48" x 36"

R9-1 18" x 24"

R9-2 12" x 18"

R9-3 12" x 18"

R9-4 18" x 24"

R10-1 12" x 18"

R10-2 12" x 18"

R10-3 9" x 12"

R10-4 9" x 12"

R10-5 24" x 30"

R10-6 24" x 36"

R10-7 24" x 30"

R10-8 24" x 30"

R10-9 24" x 30"

R10-10 24" x 30"

R11-1 24" x 30"

R11-2 48" x 30"

R11-3(10) 60" x 30"

R11-4 60" x 30"

R12-1(10) 24" x 30"

**GENERAL NOTES**

1. Sign details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, and "Standard Highway Signs."
2. All regulatory signs shall be reflectorized unless otherwise specified.
3. All regulatory signs shall have 3/8" bolt holes drilled at appropriate locations.
4. Numerals in ( ) indicates numerals to be inserted for sign message. (R) or (L) indicates right or left.

APPROVAL RECOMMENDED:  
*Eishi Tanaka* 3/17/72  
TRAFFIC ENGINEER DATE

APPROVED:  
*Robert Zebien* 3-20-72  
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 101 Approved 12-30-69	H.C.	3/20/72

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION


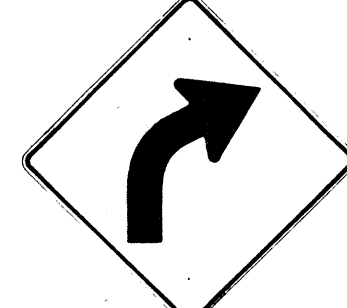
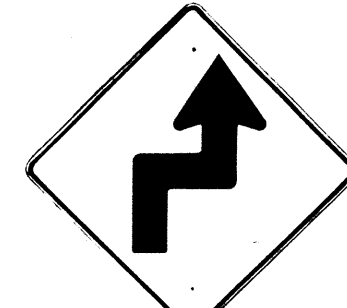
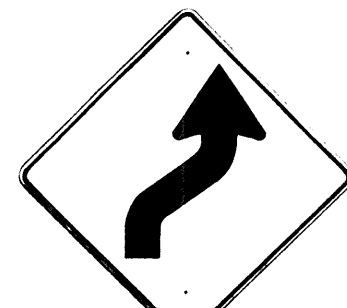

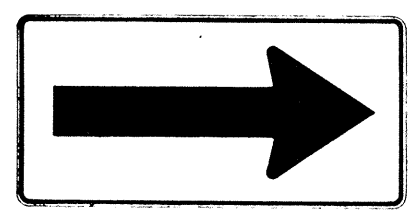
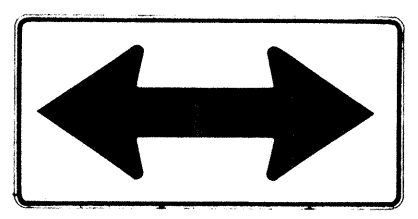
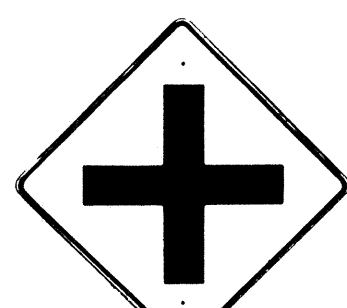
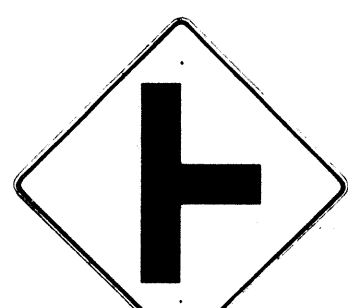
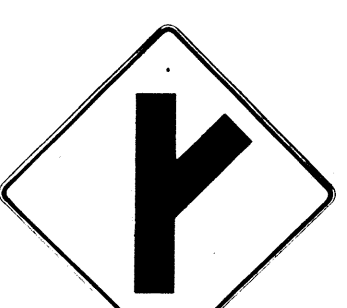
**STANDARD DETAILS**  
**REGULATORY SIGNS**

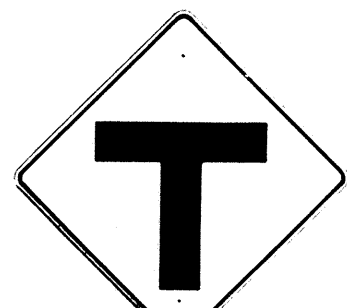
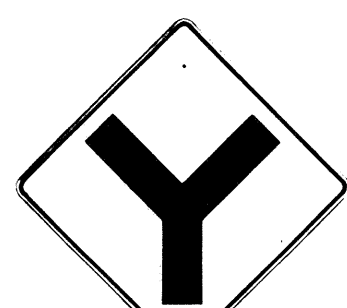


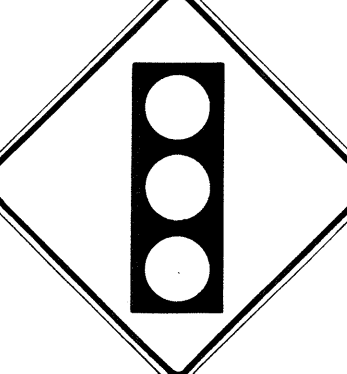

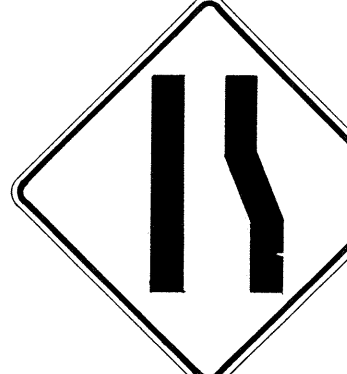



NOT TO SCALE


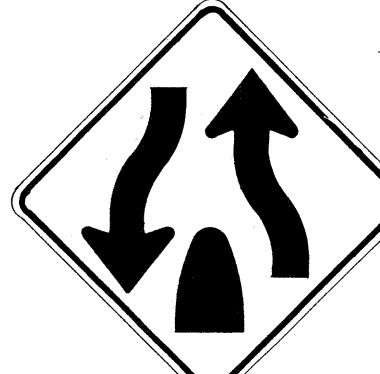
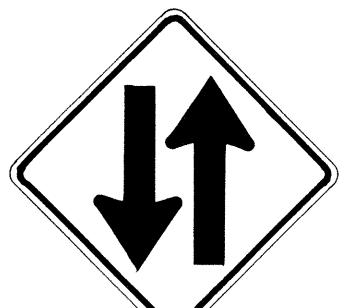







SHEET No. 22 OF 34 SHEETS DT 101






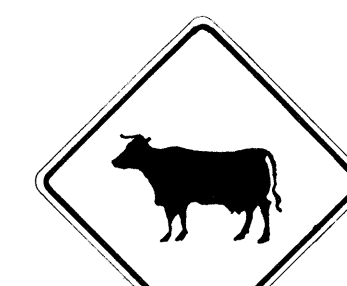

DATE  
DRAWN BY  
DESIGNED BY  
CHECKED BY  
ORIGINAL PLAN  
NOTE BOOK  
No.

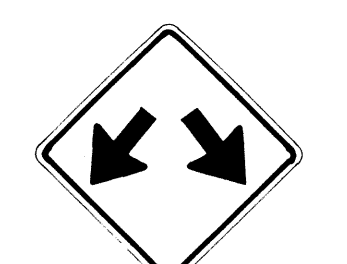


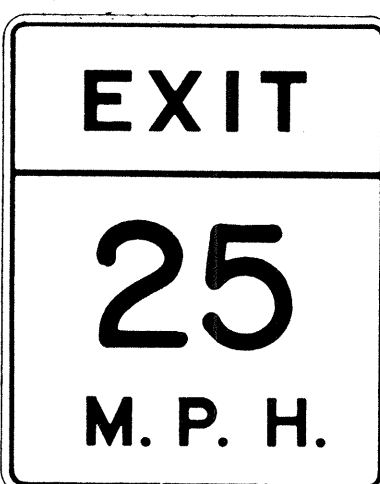
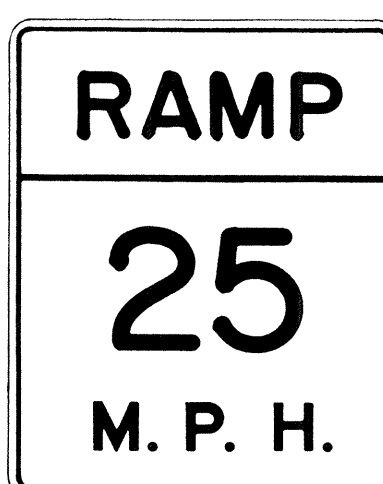


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(12)-0	1973	86	171

 W1-1(R) 30"x30" W1-1(R)-A 48"x48"	 W1-2(R) 30"x30" W1-2(R)-A 48"x48"	 W1-3(R) 30"x30" W1-3(R)-A 48"x48"	 W1-4(R) 30"x30" W1-4(R)-A 48"x48"	 W1-5(R) 30"x30" W1-5(R)-A 48"x48"	 W1-6 48"x24"	 W1-7 48"x24"	 W2-1 30"x30" W2-1-A 48"x48"	 W2-2 30"x30" W2-2-A 48"x48"	 W2-3(R) 30"x30" W2-3(R)-A 48"x48"
---	---	--	---	---	---	---	---	---	---

 W2-4 30"x30" W2-4-A 48"x48"	 W2-5 30"x30" W2-5-A 48"x48"	 W3-1 30"x30" W3-1-A 36"x36"	 W3-2 30"x30" W3-2-A 36"x36"	 W3-3 36"x36" 24"x18"	 W4-1(R) 30"x30" 24"x18" W4-1(R)-A 48"x48" 24"x18"	 W4-2(R) 36"x36" W4-2(R)-A 48"x48"	 W5-1 36"x36"	 W5-2 30"x30" W5-2-A 36"x36"	 W5-3 36"x36"
---	---	--	---	--	---	---	---	---	---

 W6-1 36"x36" 24"x18"	 W6-2 36"x36" 24"x18"	 W6-3 30"x30" 24"x18" W6-3-A 36"x36" 24"x18" W6-3-B 48"x48" 24"x18"	 W7-1 30"x30" 24"x18" W7-1-A 36"x36" 24"x18"	 W7-2 24"x18"	 W8-1 30"x30" W8-1-A 36"x36"	 W8-2 30"x30" W8-2-A 36"x36"	 W8-3 30"x30" W8-3-A 36"x36"	 W8-4 30"x30" W8-4-A 36"x36"	 W8-5 30"x30" 24"x18" W8-5-A 36"x36" 24"x18"
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 W9-1(R) 30"x30" W9-1(R)-A 36"x36" W9-1(R)-B 48"x48"	 W9-2(L) 36"x36" W9-2(L)-A 48"x48"	 W10-1 36" Diameter	 W11-1 30"x30" 24"x18" W11-1-A 36"x36" 24"x18"	 W11-2 30"x30" 24"x18" W11-2-A 36"x36" 24"x18"	 W11-4 30"x30" 24"x18" W11-4-A 36"x36" 24"x18"	 W11-5 30"x30" 24"x18" W11-5-A 36"x36" 24"x18"
--	---	--	---	---	---	---

 W12-1 24"x24" W12-1-A 36"x36" W12-1-B 48"x48"	 W12-2(12'-6") 36"x36" 24"x18"	 W13-1(25) 18"x18" W13-1(25)-A 24"x24"	 W13-2(25) 48"x60"	 W13-3(25) 48"x60"	 W14-1 30"x30"	 W14-3 36"x48"x48"
--	---	--	--	--	--	--

**GENERAL NOTES**

1. Sign details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, and "Standard Highway Signs."
2. All warning signs shall be reflectorized unless otherwise specified.
3. All warning signs shall have 3/8" bolt holes drilled at appropriate locations.
4. Numerals in ( ) indicates numerals to be inserted for sign message. (R) or (L) indicates right or left.
5. Signs prefixed with "CW" on the plans shall indicate orange and black construction signs.

APPROVAL RECOMMENDED:  
*Erich Tanaka* 3/17/72  
TRAFFIC ENGINEER DATE

APPROVED:  
*John P. Roberts* 3-20-72  
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 102 Approved 12-30-69	H.C.	3/20/72

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

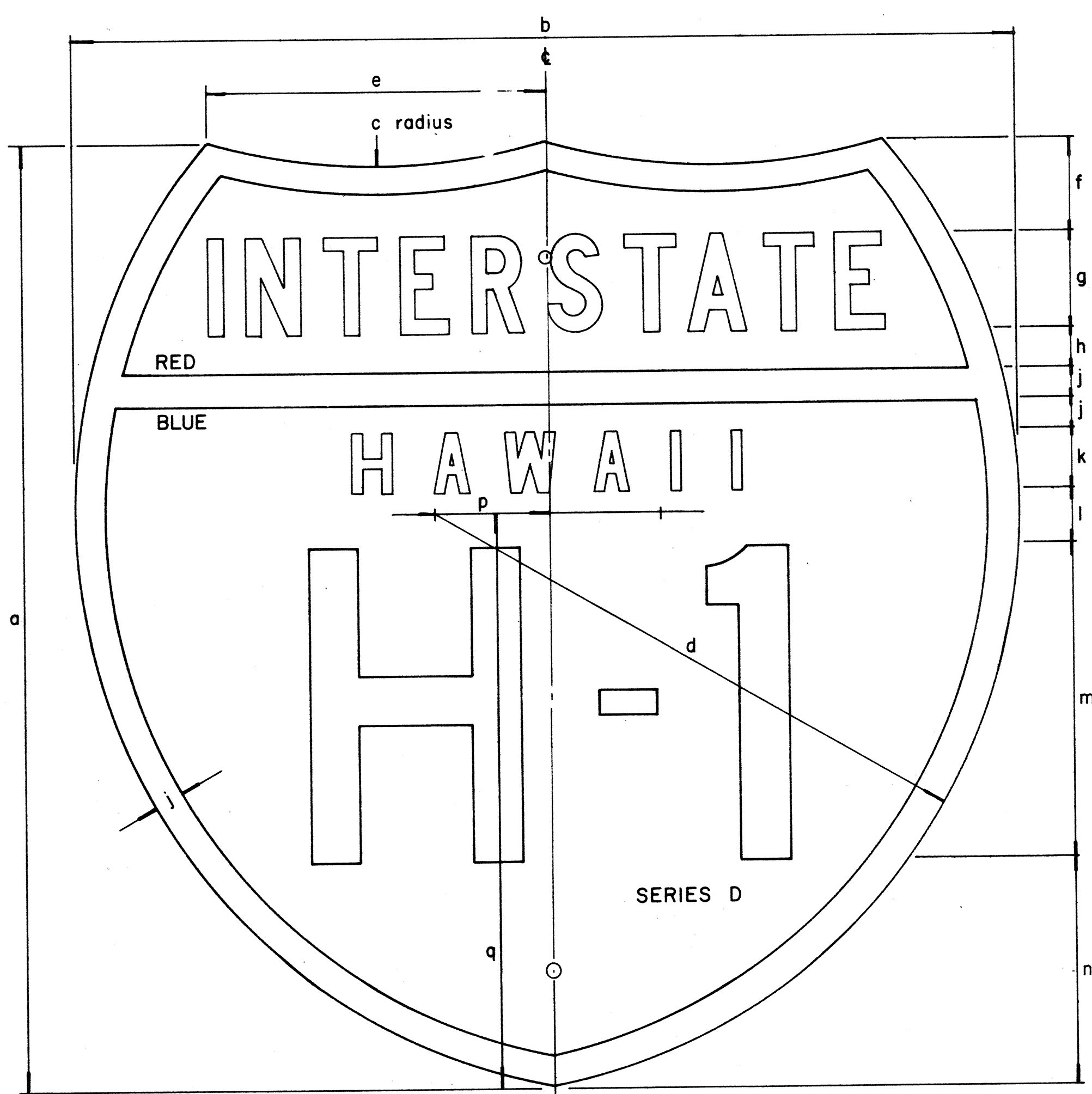
**STANDARD DETAILS**  
**WARNING SIGNS**

NOT TO SCALE

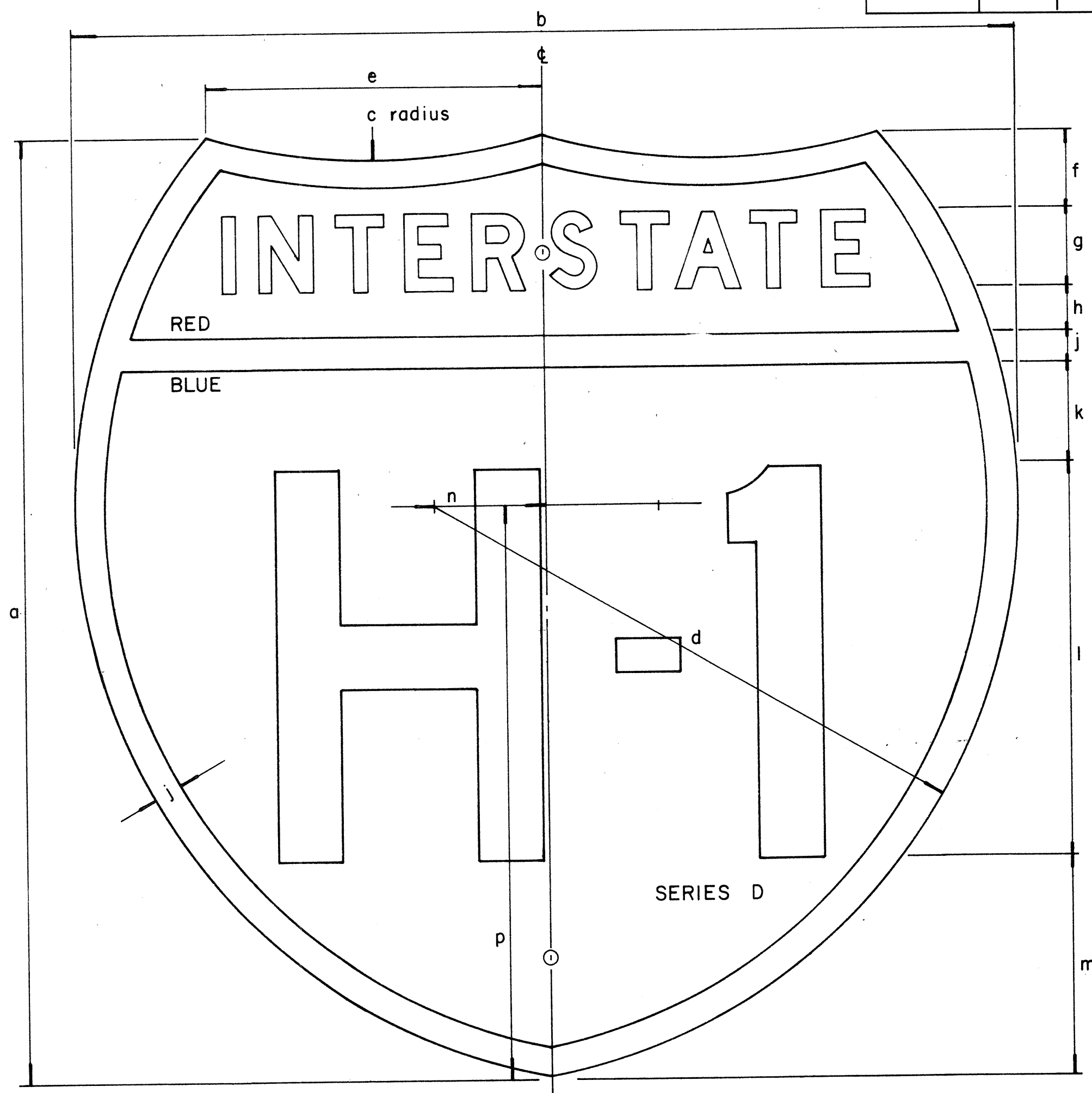
ORIGINAL PLAN  
DESIGNED BY  
CHECKED BY  
DATE



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(12)-0	1973	88	171



INTERSTATE ROUTE MARKER  
IM-1( )



INTERSTATE ROUTE MARKER  
IM-2( )

INTERSTATE SHIELDS - INDEPENDENT USE

( )	a	b	c	d	e	f	g	h	j	k	l	m	n	p	q
1	18	21	13 1/8	12 9/16	9 3/16	1 25/32	1 7/8 C	3/4	9/16	1 1/8 D	1 1/32	6	4 5/16	2 1/16	12 7/16
2	24	24	15	14 7/8	8 5/8	2 3/8	2 1/2 C	1	3/4	1 1/2 D	1 3/8	8	5 3/4	2 7/8	14 5/8
3	36	36	22 1/2	22 5/16	12 15/16	3 9/16	3 3/4 C	1 1/2	1 1/8	2 1/4 D	2 1/16	12	8 5/8	4 5/16	21 15/16

INTERSTATE SHIELDS ON GUIDE SIGNS

( )	a	b	c	d	e	f	g	h	j	k	l	m	n	p
2	24	24	15	14 7/8	8 5/8	2	2 D	1 3/16	3/4	2 9/16	10	5 1/2	2 7/8	14 5/8
3	36	36	22 1/2	22 5/16	12 15/16	3 7/16	3 C	1 5/16	1 1/8	3 1/8	15	9	4 5/16	21 15/16
4	48	48	30	29 3/4	17 1/4	4 3/4	5 C	2	1 1/2	4	18	12 3/4	5 3/4	29 1/4

SURVEY PLOTTED BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
 DRAWN BY: \_\_\_\_\_  
 DESIGNED BY: \_\_\_\_\_  
 QUANTITIES BY: \_\_\_\_\_  
 CHECKED BY: \_\_\_\_\_  
 ORIGINAL PLAN: \_\_\_\_\_  
 NOTE BOOK: \_\_\_\_\_  
 No. \_\_\_\_\_

GENERAL NOTES

- The shape, dimensions, symbols, wording, lettering, color and reflectorizing of all signs shall be in accordance with the "Manual on Uniform Traffic Control Devices for Streets and Highways," dated June, 1961 and the BPR manual "Standard Highway Signs," dated September, 1961, unless otherwise specified.
- All letters and figures shall conform to the manual "Standard Alphabets for Highway Signs," Dept. of Commerce, Bureau of Public Roads, 1966
- All markers shall be reflectorized unless otherwise specified.
- All markers shall have 3/8" bolt holes drilled at appropriate locations unless otherwise specified.
- The Interstate Route Marker shall be a cut-out shield, in a red, white and blue design as shown on the plans.

APPROVAL RECOMMENDED:  
*Eiichi Tanaka*  
 TRAFFIC ENGINEER  
 12/29/69  
 DATE

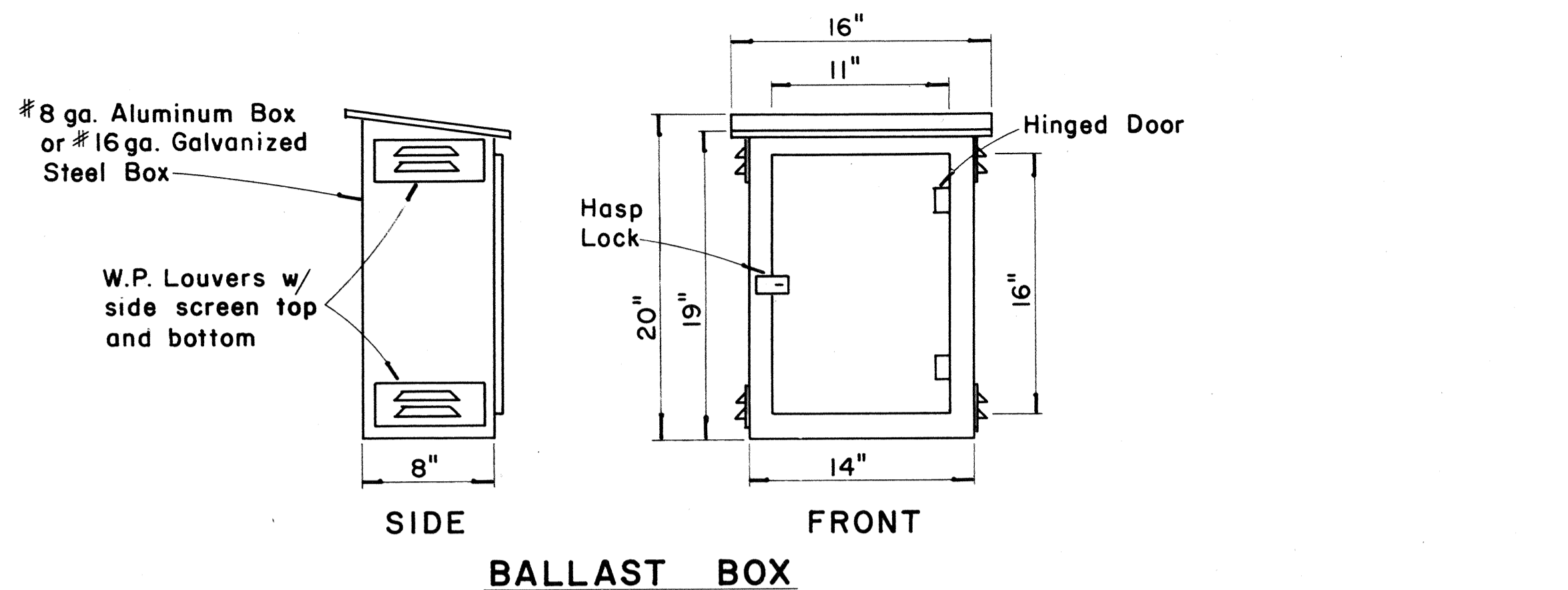
APPROVED:  
*John J. [Signature]*  
 ASSISTANT CHIEF, ENGINEERING  
 12-30-69  
 DATE

NO.	REVISION	APPROVED BY	DATE

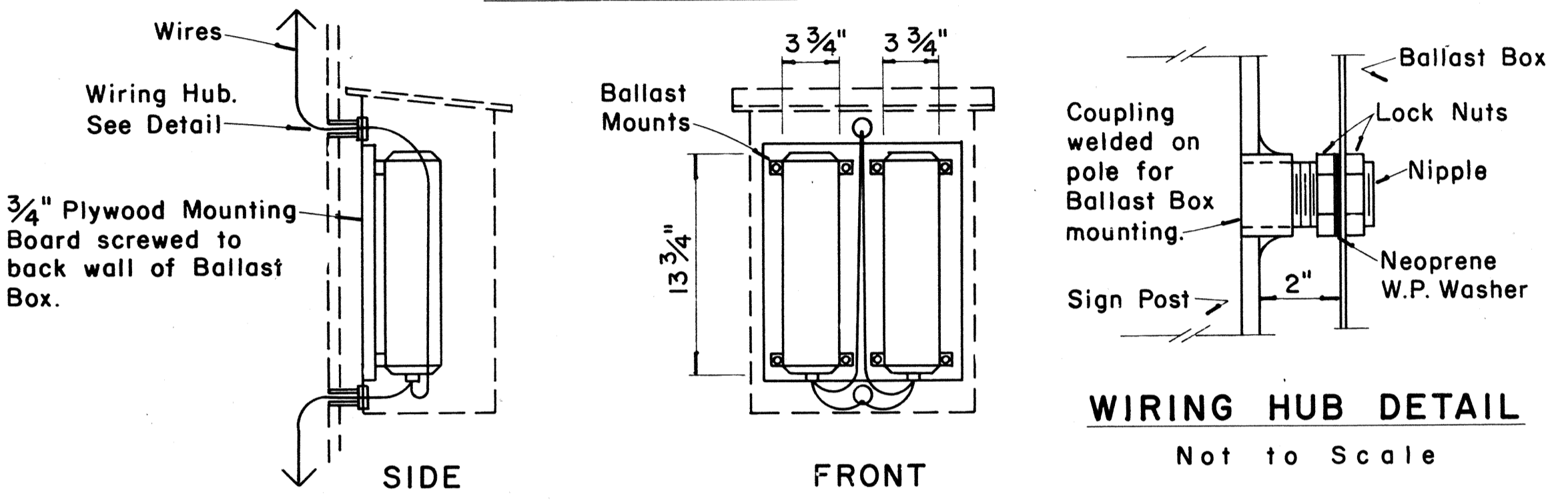
STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**STANDARD DETAILS**  
 INTERSTATE ROUTE MARKERS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-2-1(12)0	1973	89	171



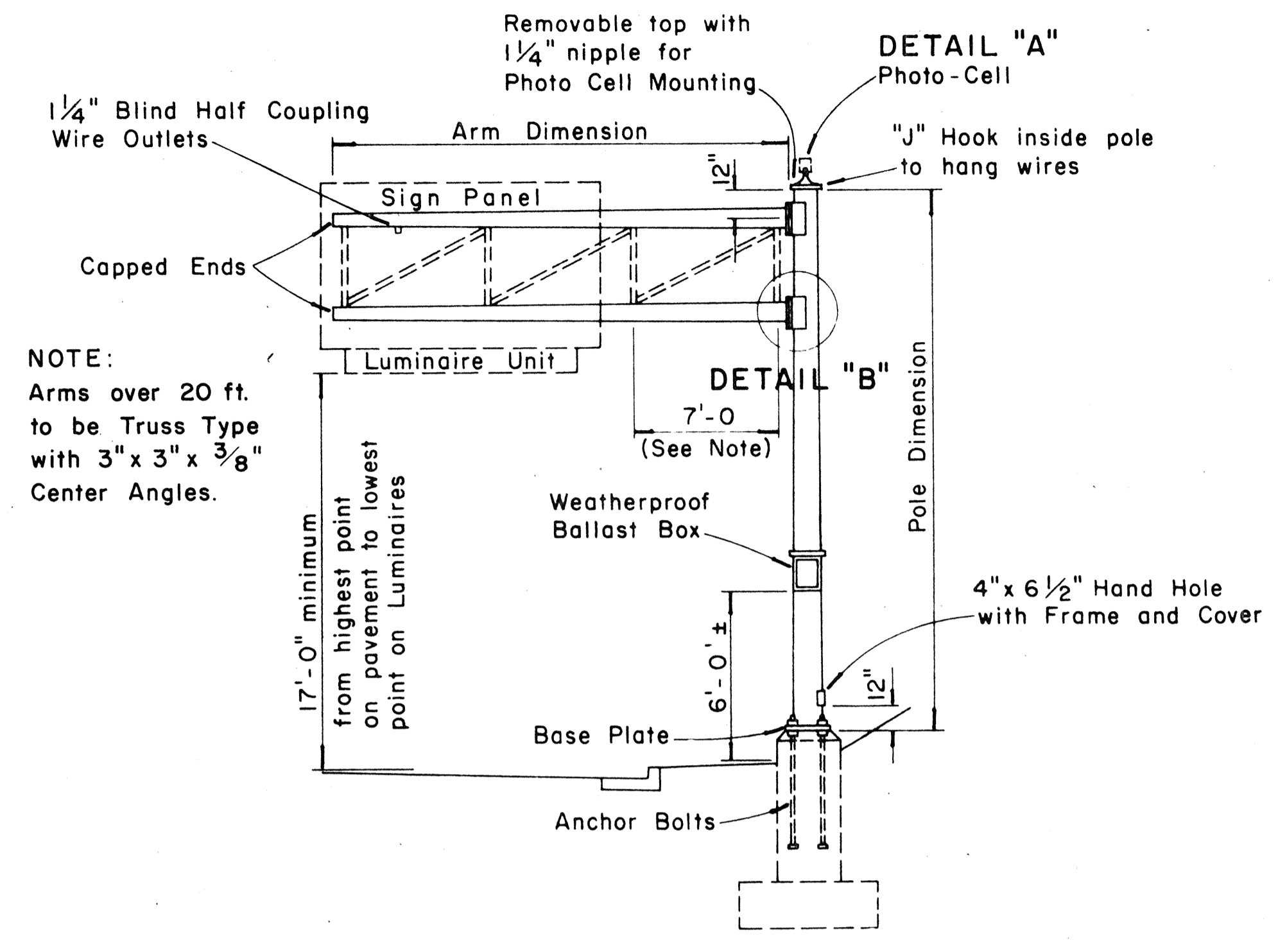
**BALLAST BOX**



**BALLASTS**

**WEATHERPROOF BALLAST BOX**

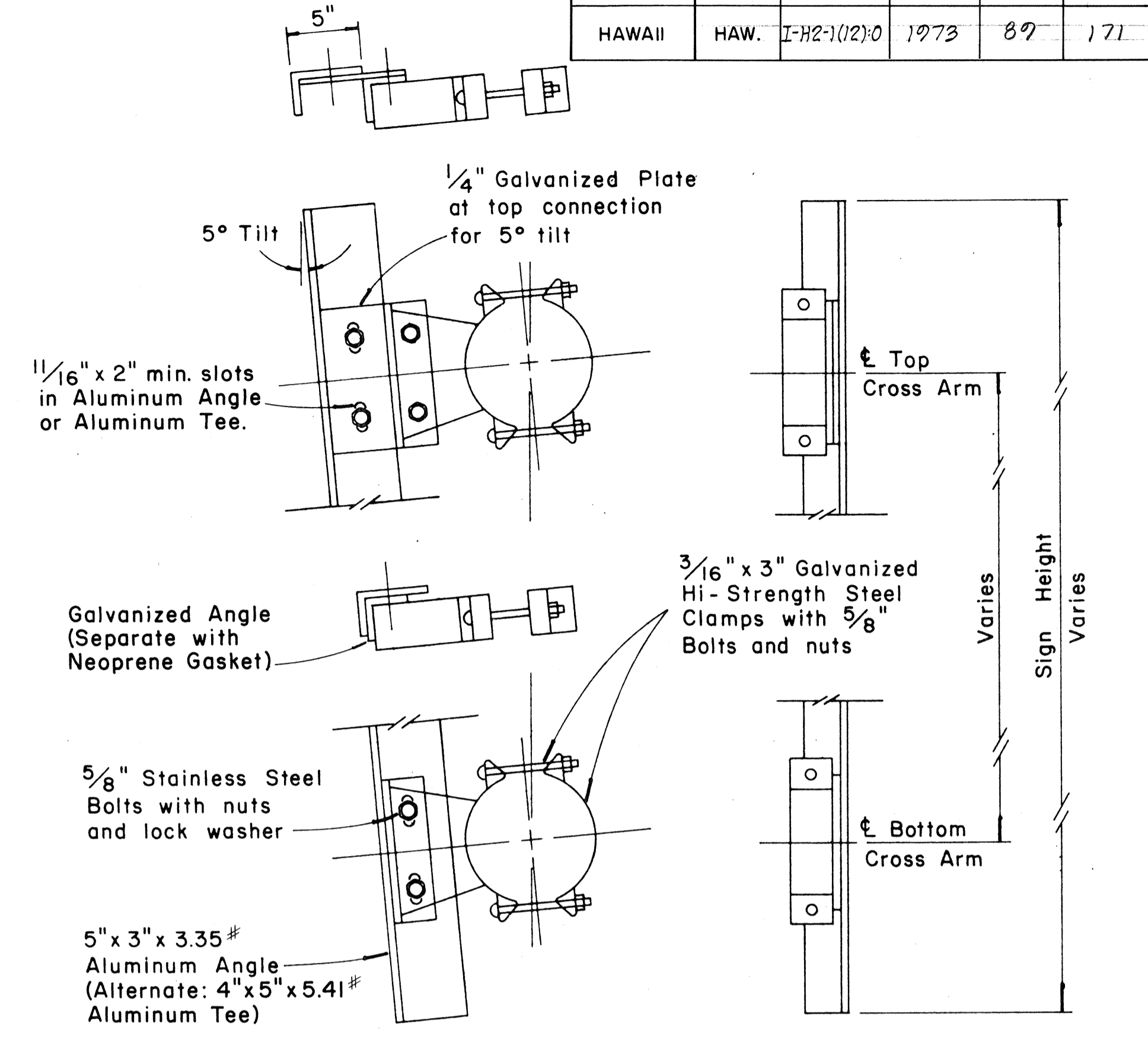
Scale: 1/2" = 1'-0"



NOTE:  
Arms over 20 ft. to be Truss Type with 3" x 3" x 3/8" Center Angles.

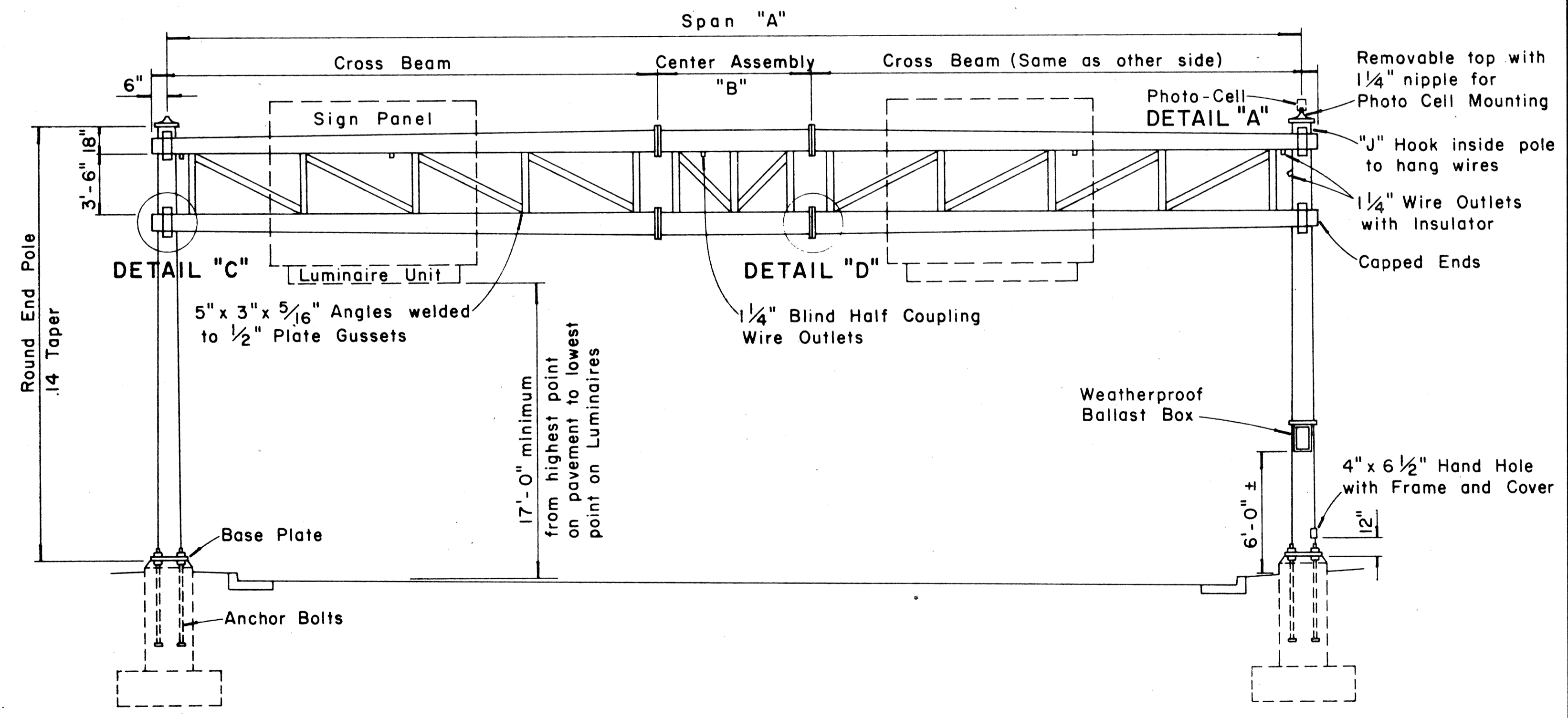
**TYPE "C"**  
**SINGLE SIGN POST — CANTILEVER TYPE**  
**DOUBLE MAST ARM**

Scale: 3/16" = 1'-0"



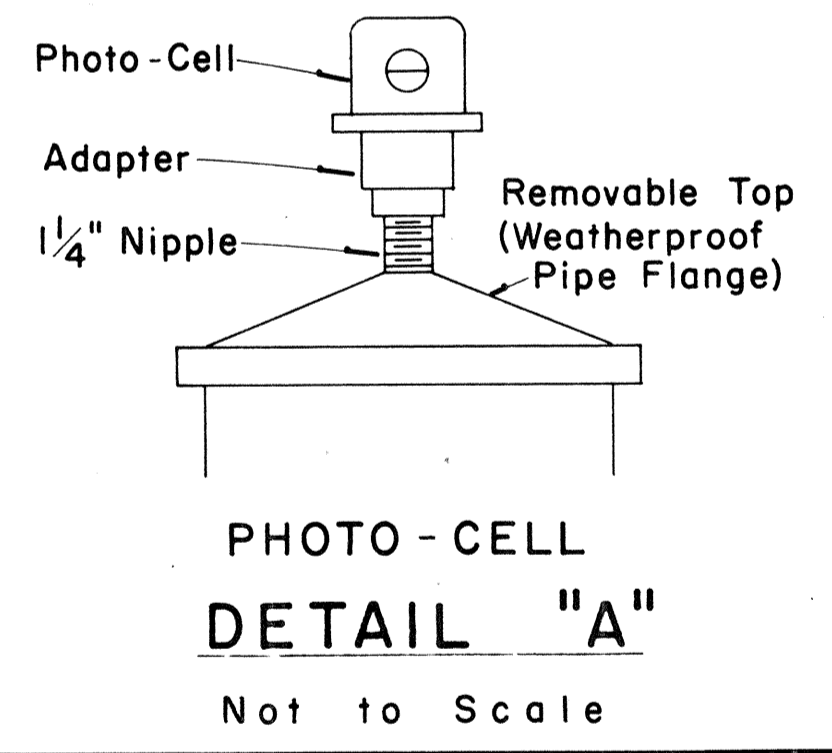
**SIGN BRACKET ASSEMBLY**

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



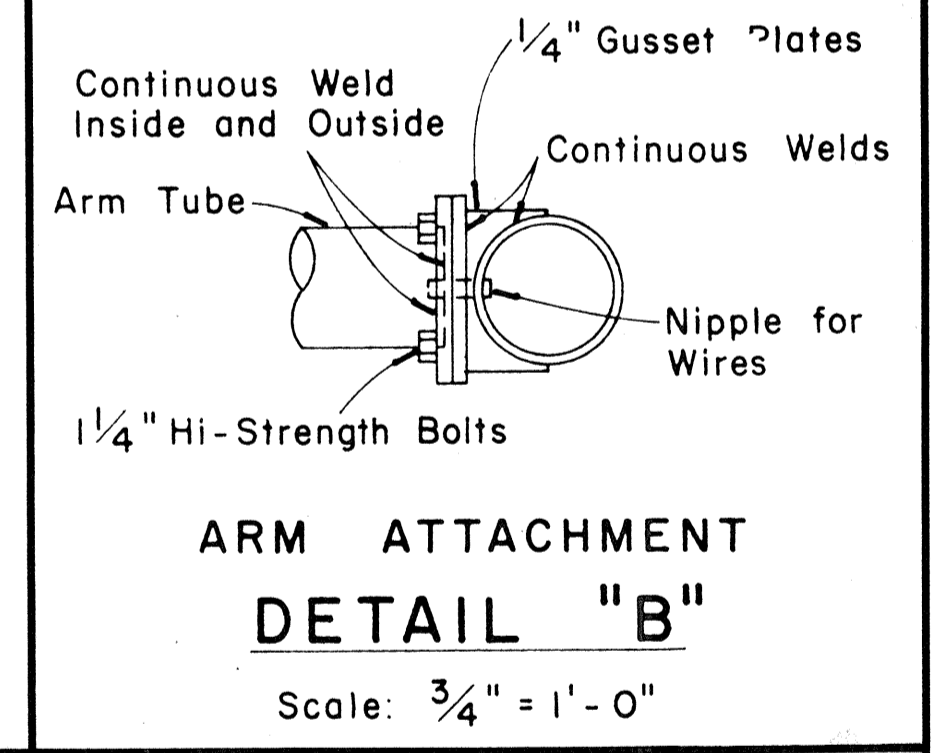
**TYPE "D"**  
**TWO-TUBE TRUSS — SPAN TYPE**

Scale: 3/16" = 1'-0"



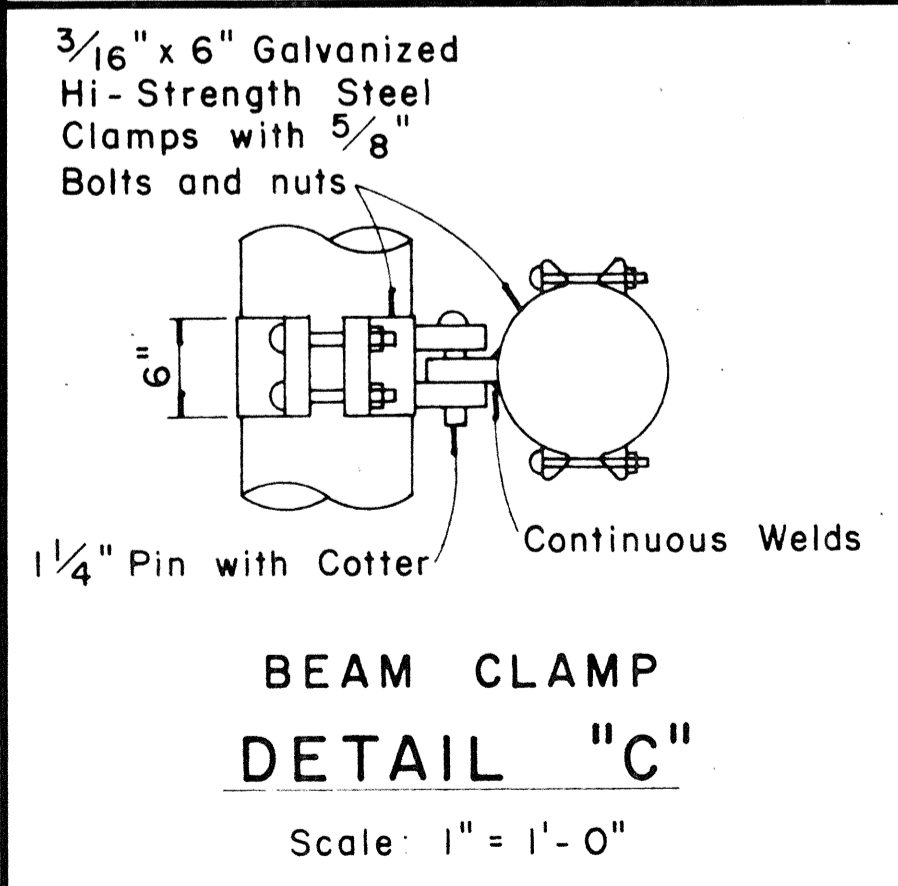
**PHOTO-CELL**  
**DETAIL "A"**

Not to Scale



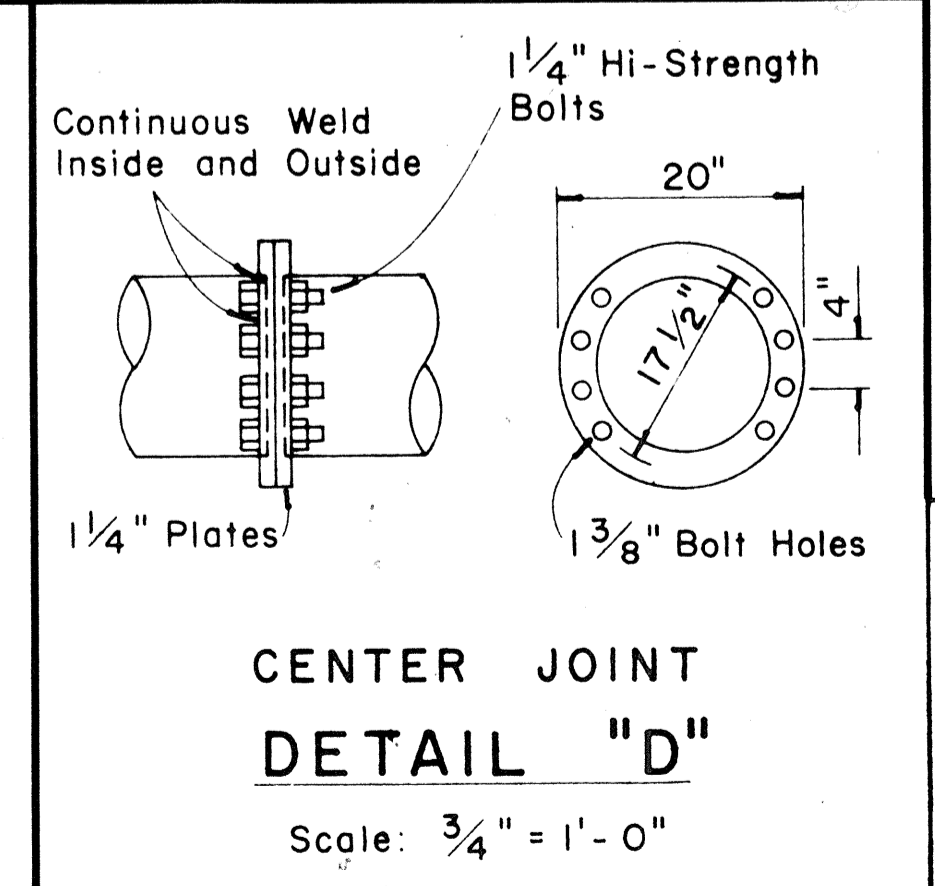
**ARM ATTACHMENT**  
**DETAIL "B"**

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



**BEAM CLAMP**  
**DETAIL "C"**

Scale: 1" = 1'-0"



**CENTER JOINT**  
**DETAIL "D"**

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

APPROVAL RECOMMENDED:  
*Eishi Tanaka* 12/29/69  
TRAFFIC ENGINEER DATE

APPROVED:  
*John J. Seif* 12-30-69  
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE

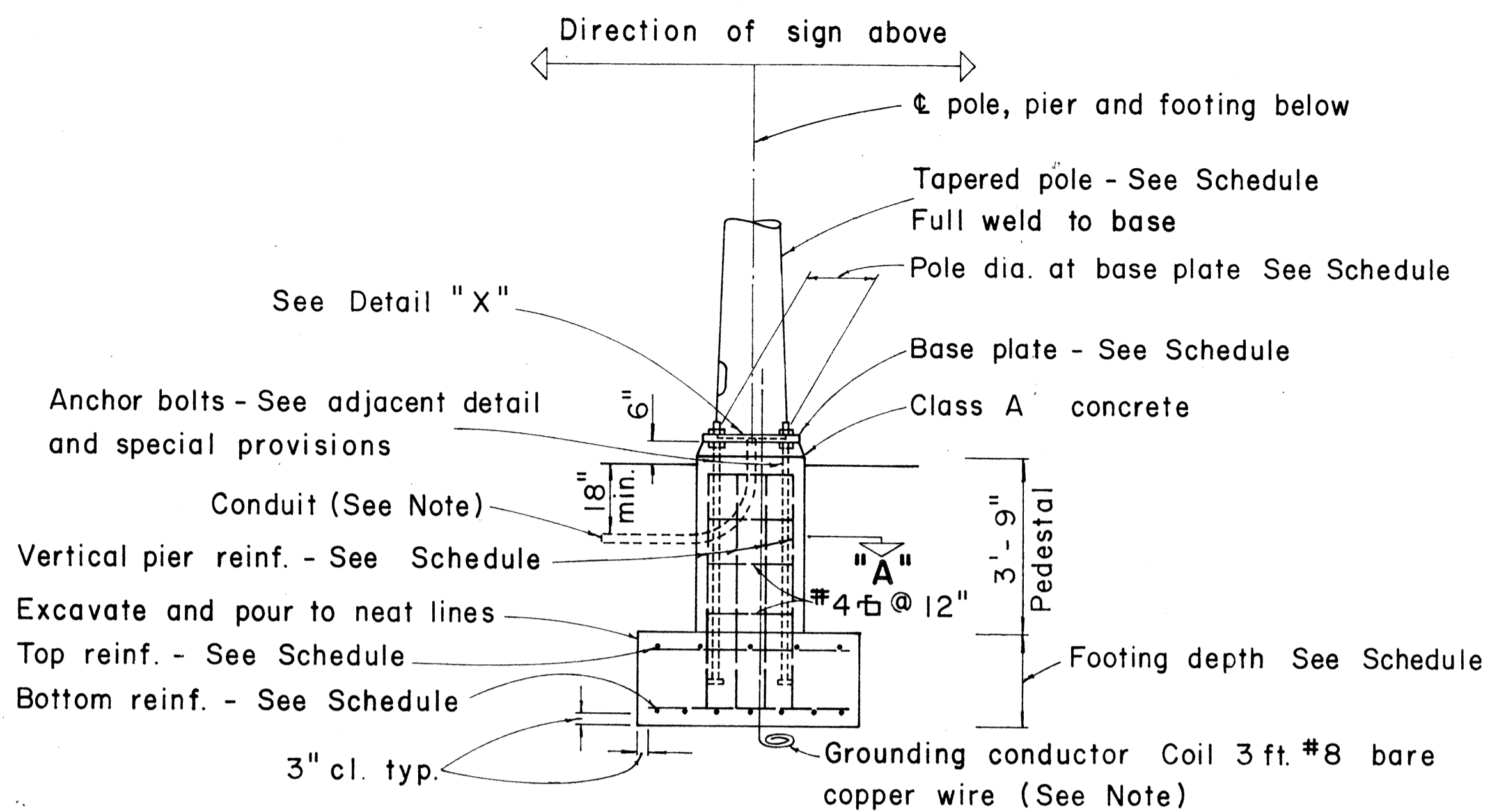
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**STANDARD DETAILS**  
**OVERHEAD SIGN SUPPORTS**

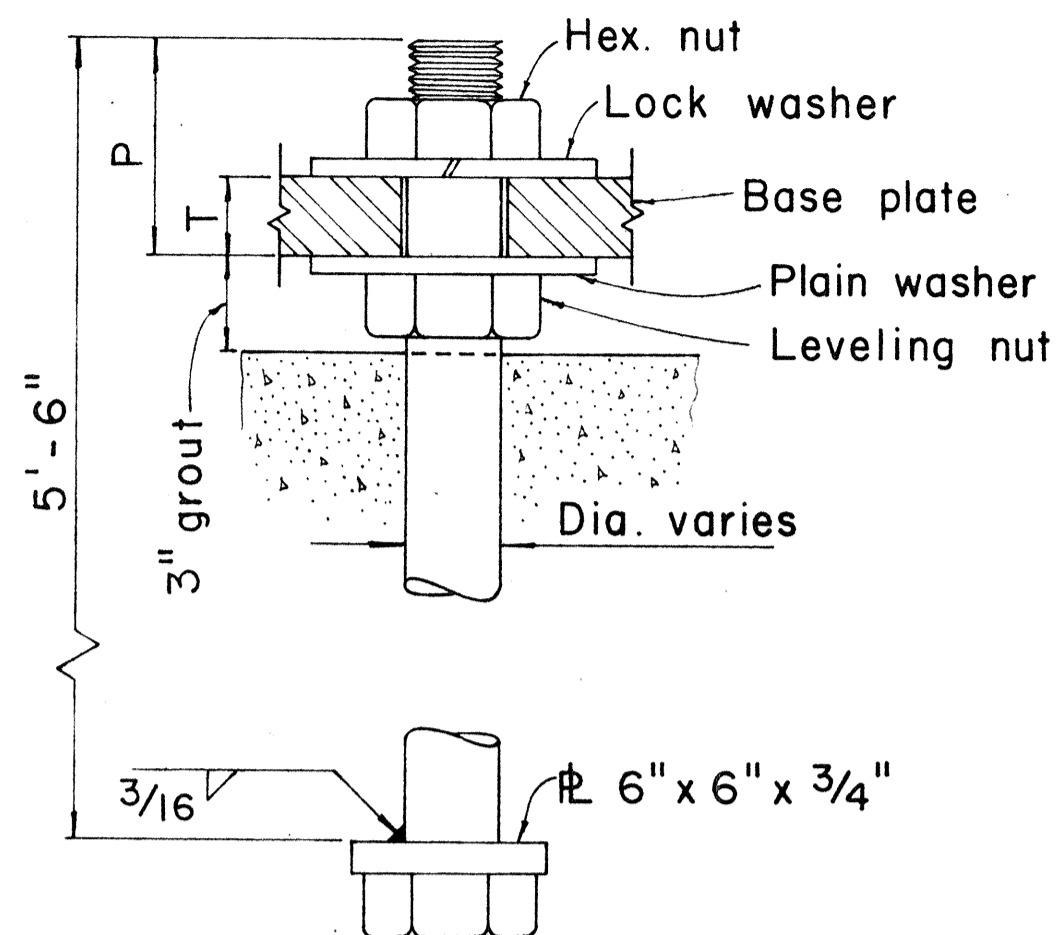
Scale As Shown  
SHEET No. 26 OF 34 SHEETS DT 200

DATE  
SURVEY PLATTED BY  
DRAWN BY  
DESIGNED BY  
QUANTITIES BY  
CHECKED BY  
NO.

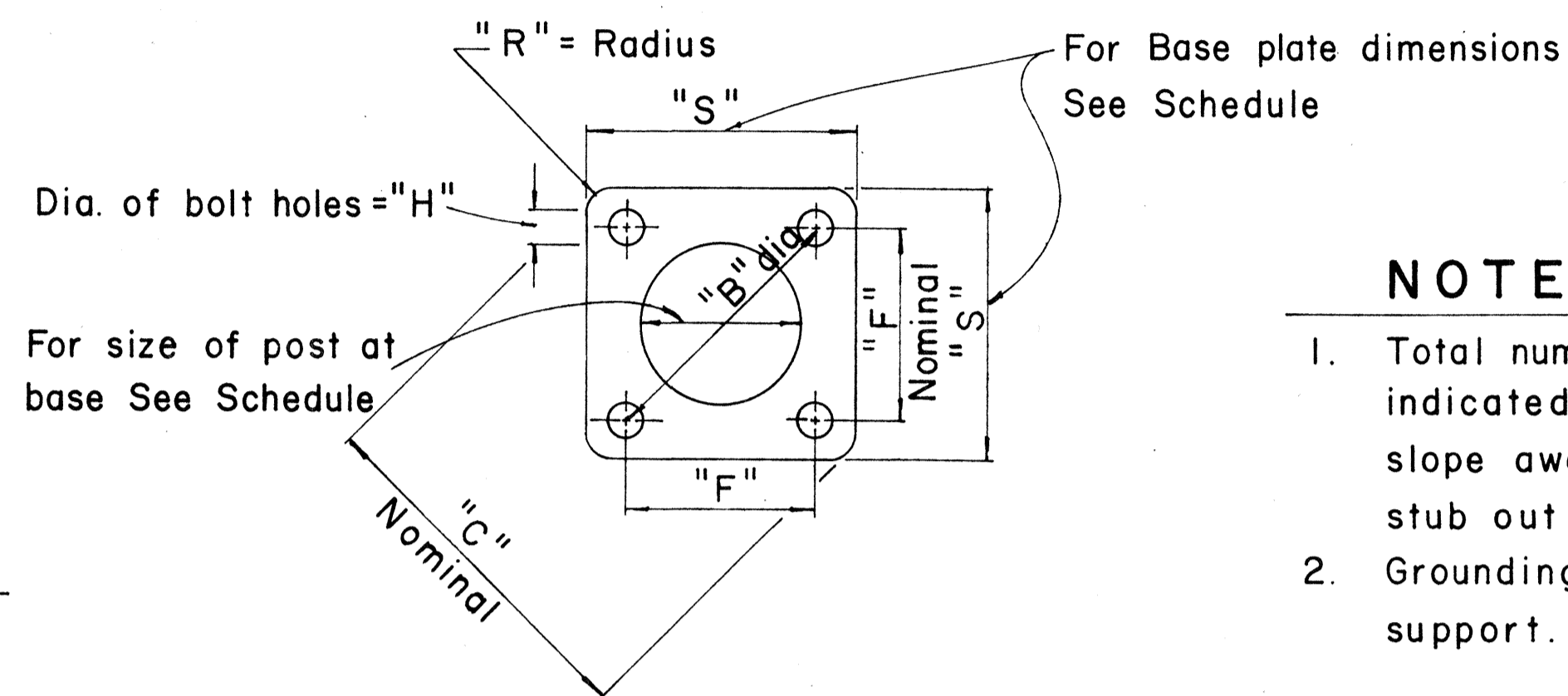
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-42-1(12)0	1973	90	171



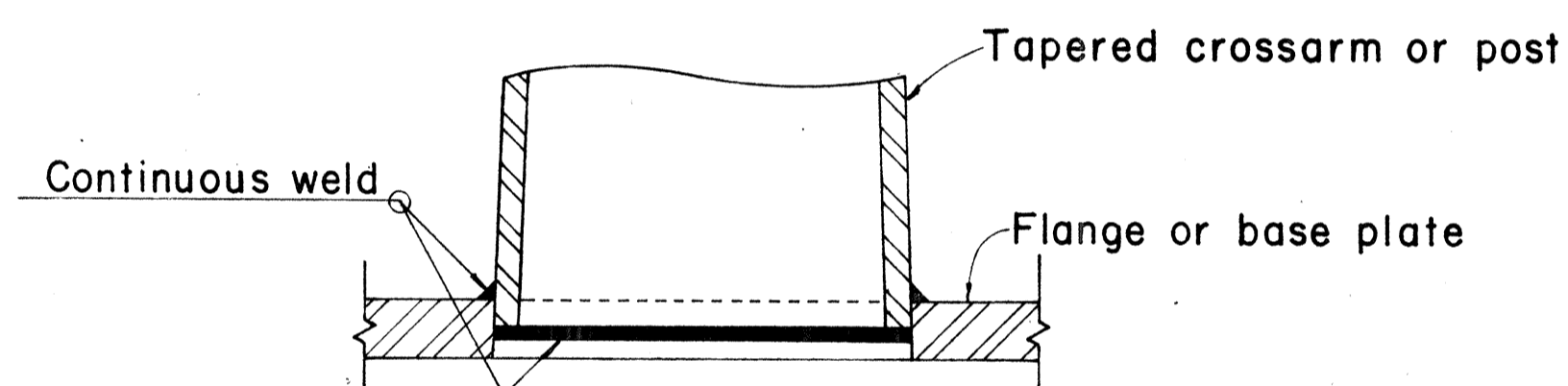
**TYPICAL POLE FOUNDATION DETAIL**



**TYPICAL ANCHOR BOLT 4 REQ'D**



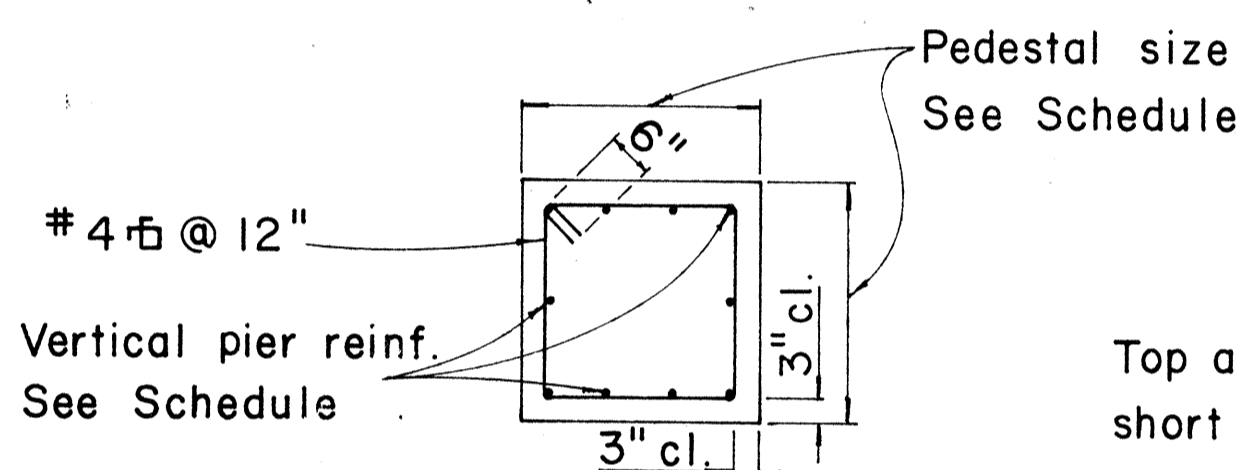
**TYPICAL BASE PLATE**



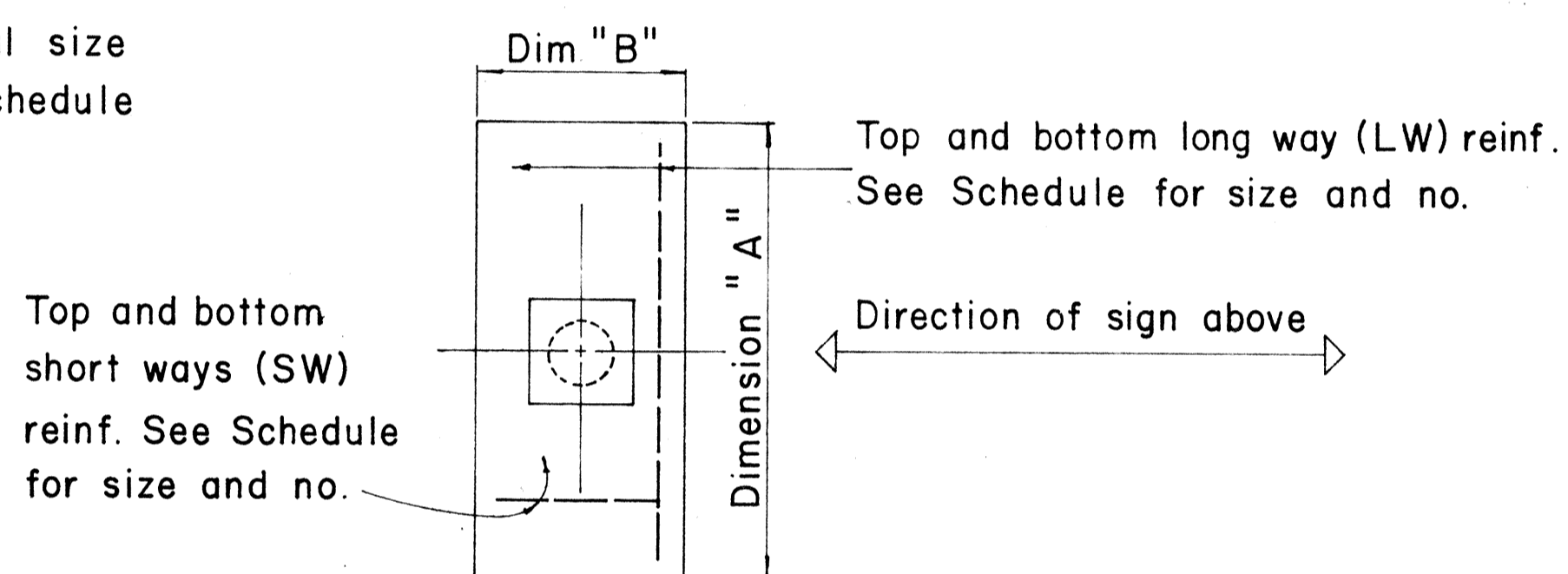
**DETAIL "X"**

**NOTE:**

1. Total number of conduits into pole foundation as indicated on Lighting plans. Conduits shall slope away from pole foundation. Conduit shall stub out 5'-0" min. for direct burial entry.
2. Grounding conductor shall be bonded to sign support.



**SECTION "A"**



**TYPICAL FOOTING DETAIL**

Type	Dimension		Depth	Bot Reinf.		Top Reinf.		Pedestal	
	A	B		L. W.	S. W.	L. W.	S. W.	Size	Vert. Reinf.
	I	7'-0"		3'-0"	2'-0"	3-#6	8-#4	#4 @ 12 each way	
II	9'-0"	4'-6"	2'-0"	6-#6	10-#4	Do.		2'-6"	10-#7
III	10'-0"	5'-0"	2'-0"	5-#8	11-#4	Do.		2'-6"	10-#8
IV	12'-0"	6'-0"	2'-0"	7-#9	13-#4	Do.		2'-9"	10-#10
V	14'-0"	7'-0"	2'-0"	8-#11	19-#4	Do.		2'-9"	10-#11

APPROVAL RECOMMENDED:

*Eishi Tanaka*  
TRAFFIC ENGINEER 12/29/69  
DATE

APPROVED:

*John B. [Signature]*  
ASSISTANT CHIEF, ENGINEERING 12-30-69  
DATE

NO.	REVISION	APPROVED BY	DATE
1	Foundation Schedule	H.C.	8/14/70

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

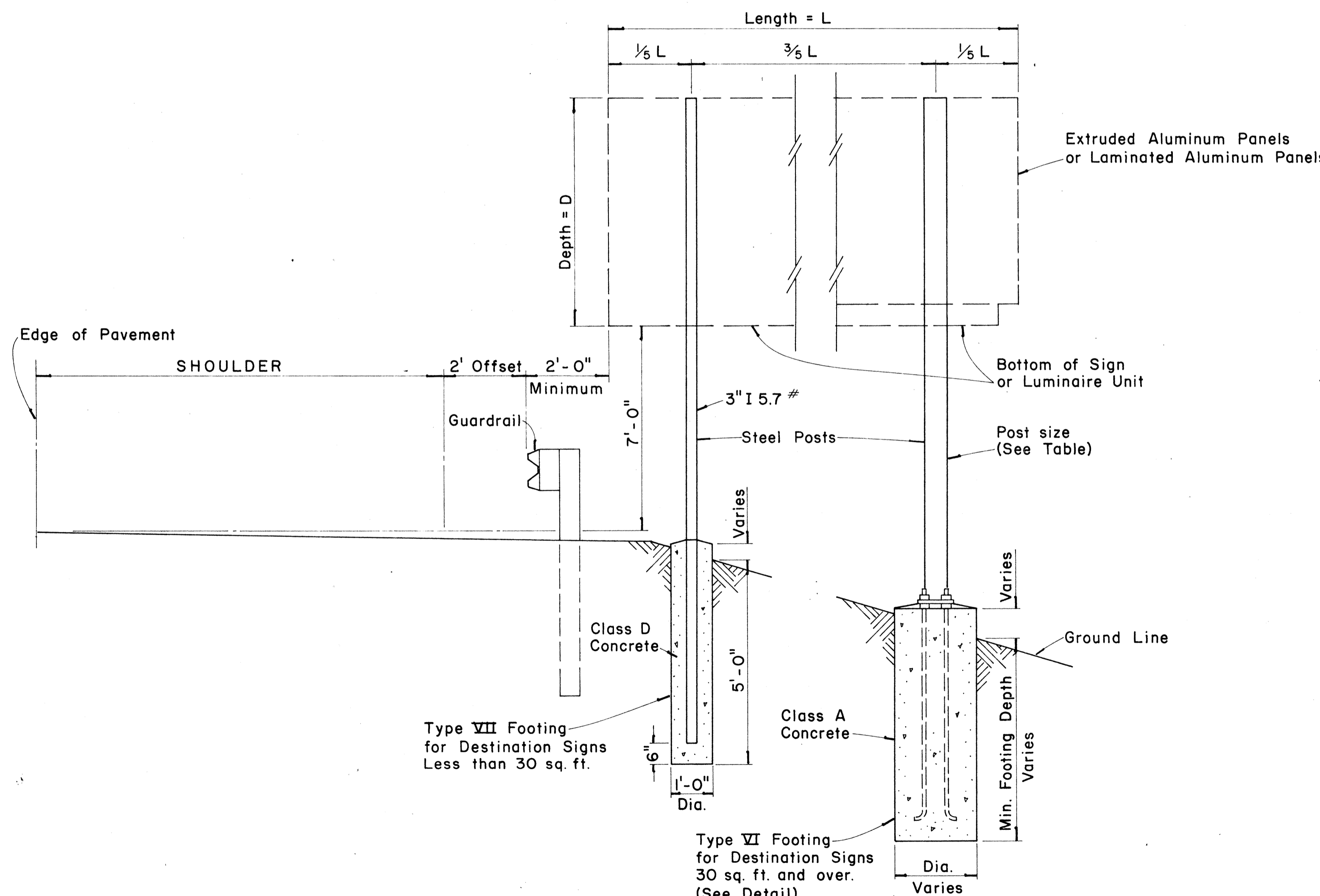
**DETAILS & SCHEDULES**

NOT TO SCALE

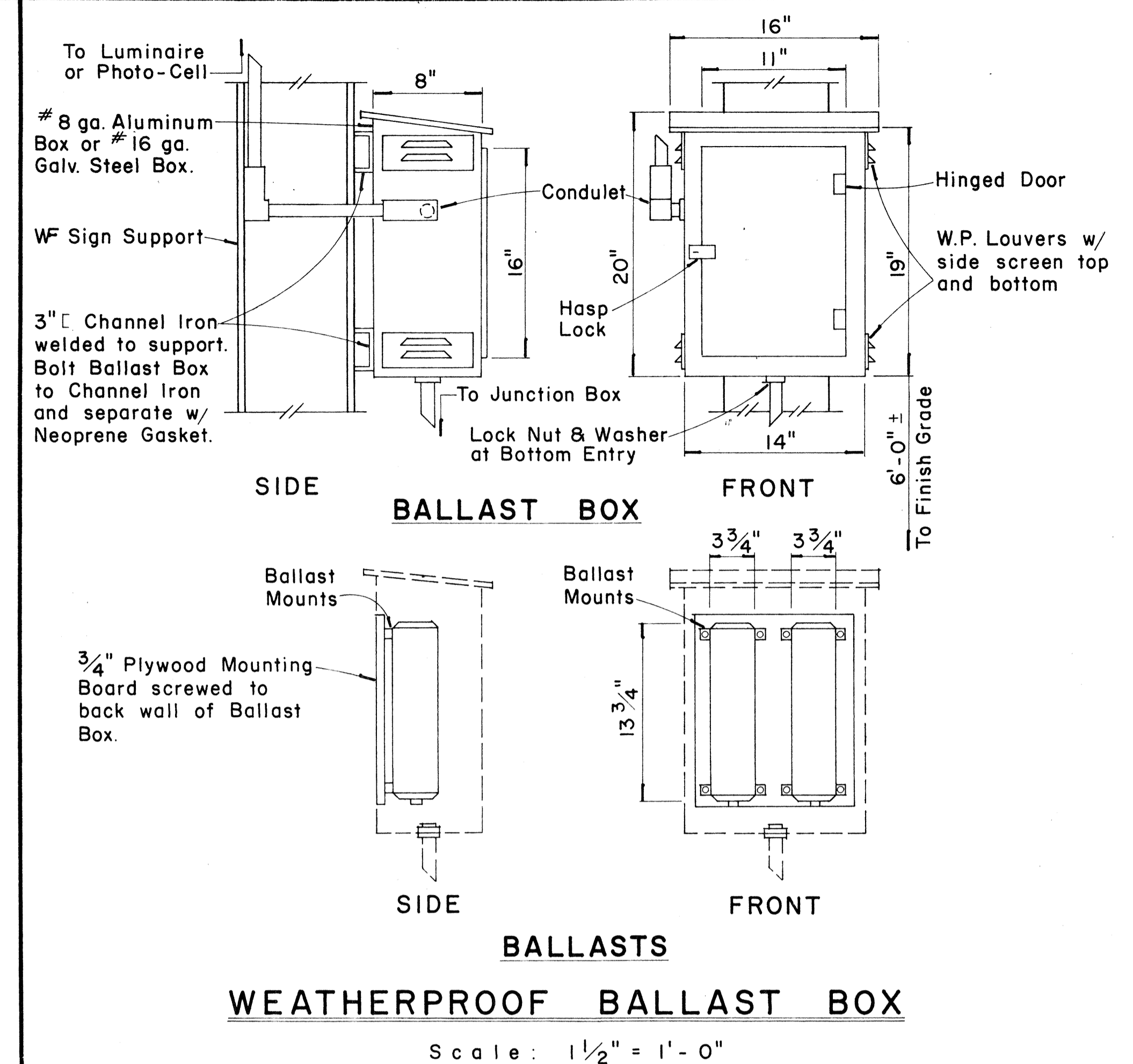
SURVEY PLOTTED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 DESIGNED BY \_\_\_\_\_  
 ORIGINAL PLAN \_\_\_\_\_  
 NOTE BOOK \_\_\_\_\_  
 QUANTITIES BY \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_  
 No. \_\_\_\_\_

\* For moment calculations only. Post shall be from top of foundation to top of sign.  
 \*\* For fills with side slopes flatter than 4:1, Minimum Footing Depth shall be 4 1/2 feet.

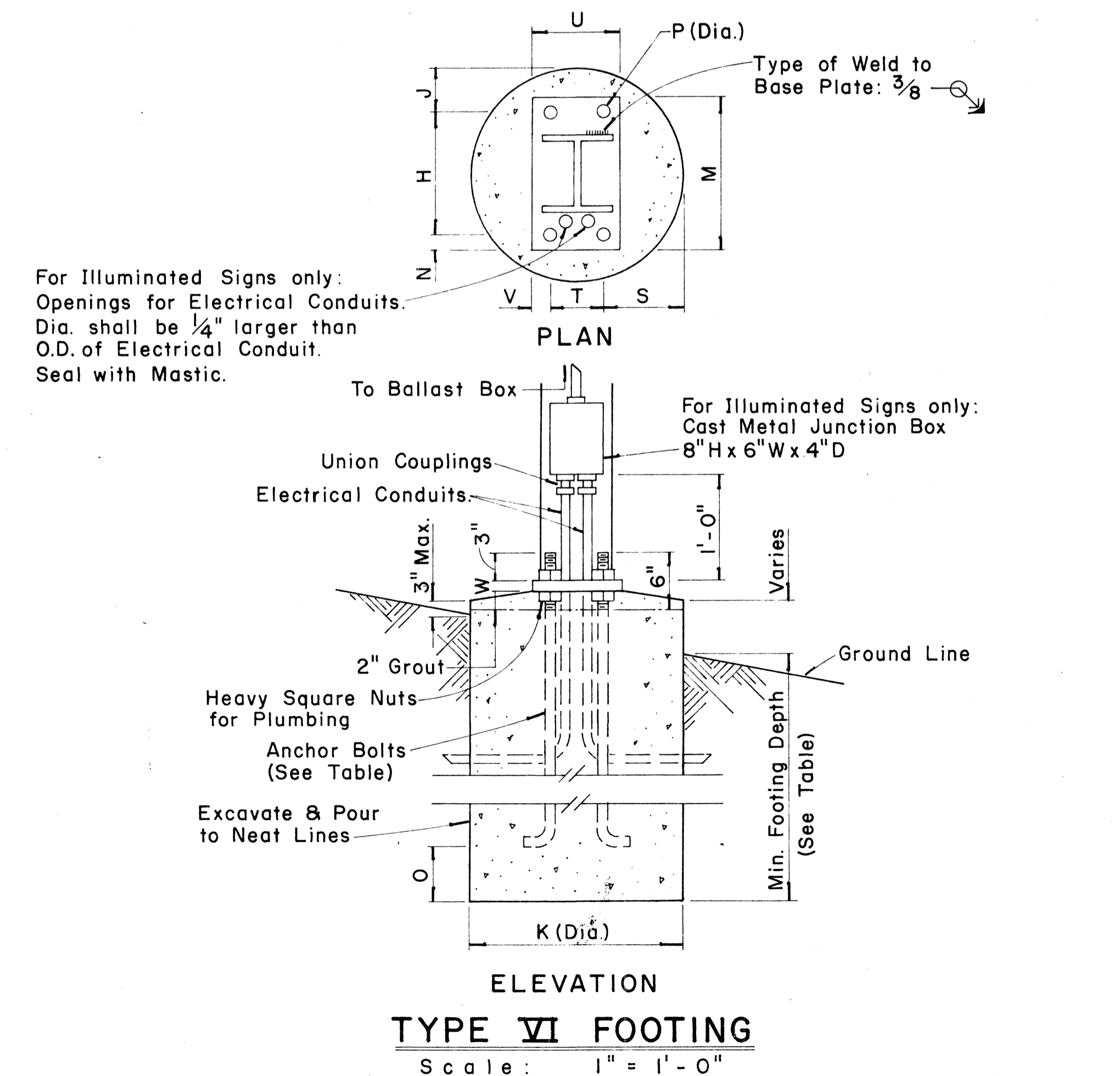
DATA TABLE FOR TYPE VI FOOTING																	
POST SIZE	MAXIMUM SIGN AREA	POST HEIGHT TOP OF FOUNDATION TO CENTER OF SIGN *	DIMENSIONS											ANCHOR BOLT DIA.	MINIMUM FOOTING DEPTH		
			H	J	K	M	N	O	P	S	T	U	V		W	CUT	FILL**
8 J10	50 sq. ft.	14'	14"	5"	24"	17 1/4"	1 5/8"	6"	1 1/4"	9"	6"	10"	2"	1"	1 1/8" ø	4 1/2'	4 1/2'
8 WF24	90 sq. ft.	21'															5'
8 WF35	190 sq. ft.	15'	16 1/2"	6 3/4"	30"	20"	1 3/4"	6"	1 3/8"	11 3/4"	6 1/2"	10"	1 3/4"	1"	1 1/4" ø	6'	7'
10 WF45	190 sq. ft.	25'															
10 WF45	200 sq. ft.	25'															
12 WF50	230 sq. ft.	25'															
12 WF50	250 sq. ft.	23'															



**TYPICAL DESTINATION & GROUND MOUNTED EXPRESSWAY SIGN**  
 Not to Scale

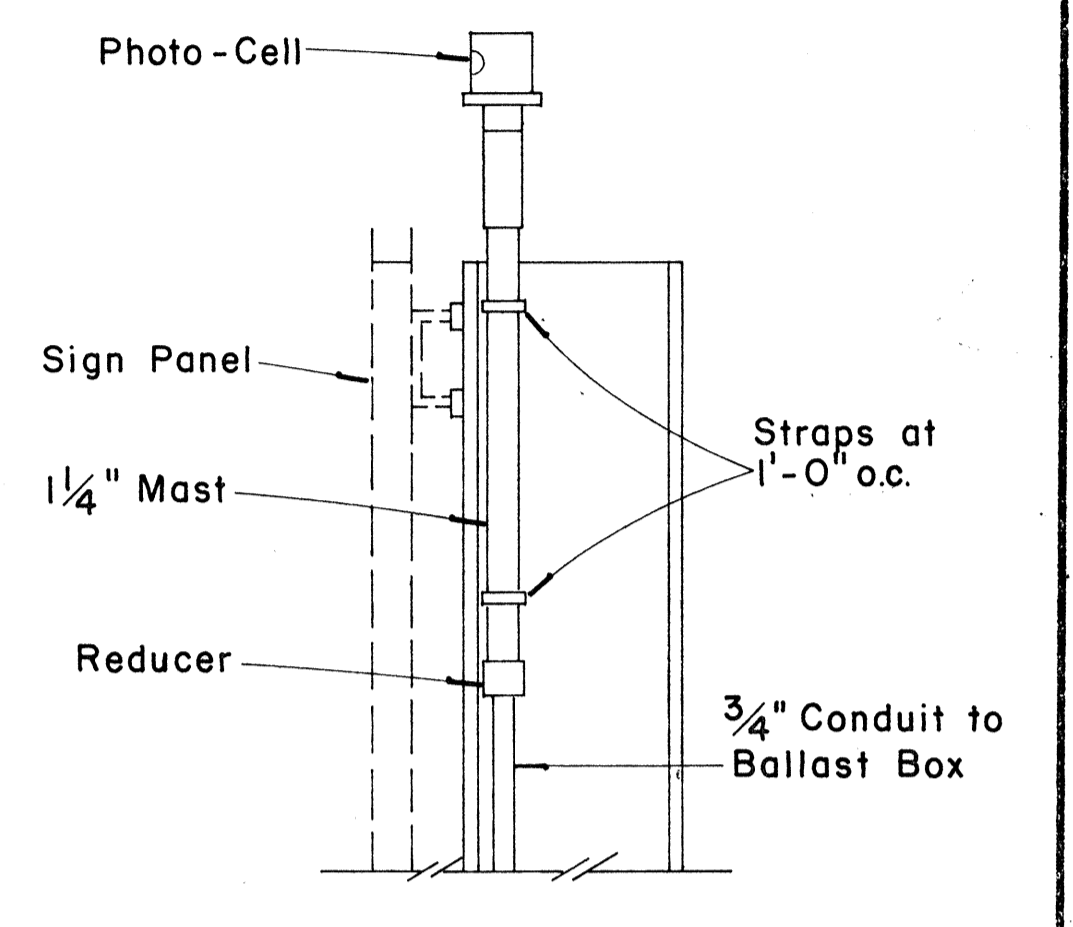


**WEATHERPROOF BALLAST BOX**  
 Scale: 1 1/2" = 1'-0"



**TYPE VI FOOTING**  
 Scale: 1" = 1'-0"

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(12)0	1973	91	171



**PHOTO-CELL DETAIL**  
 Scale: 1 1/2" = 1'-0"

APPROVAL RECOMMENDED:  
*Eiichi Tanaka* 12/23/69  
 TRAFFIC ENGINEER DATE

APPROVED:  
*John S. Sato* 12-30-69  
 ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

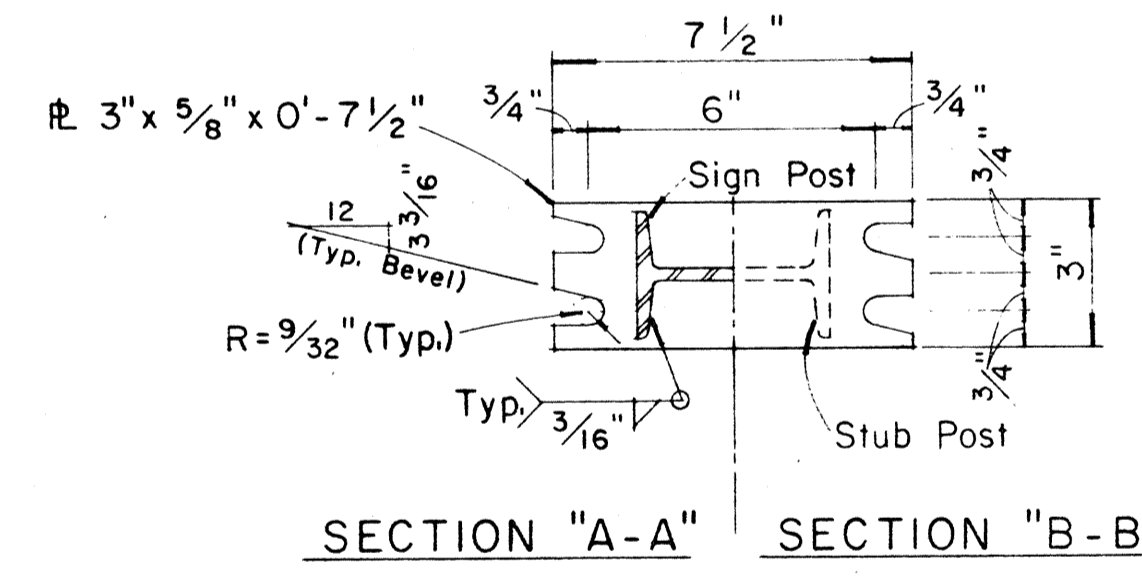
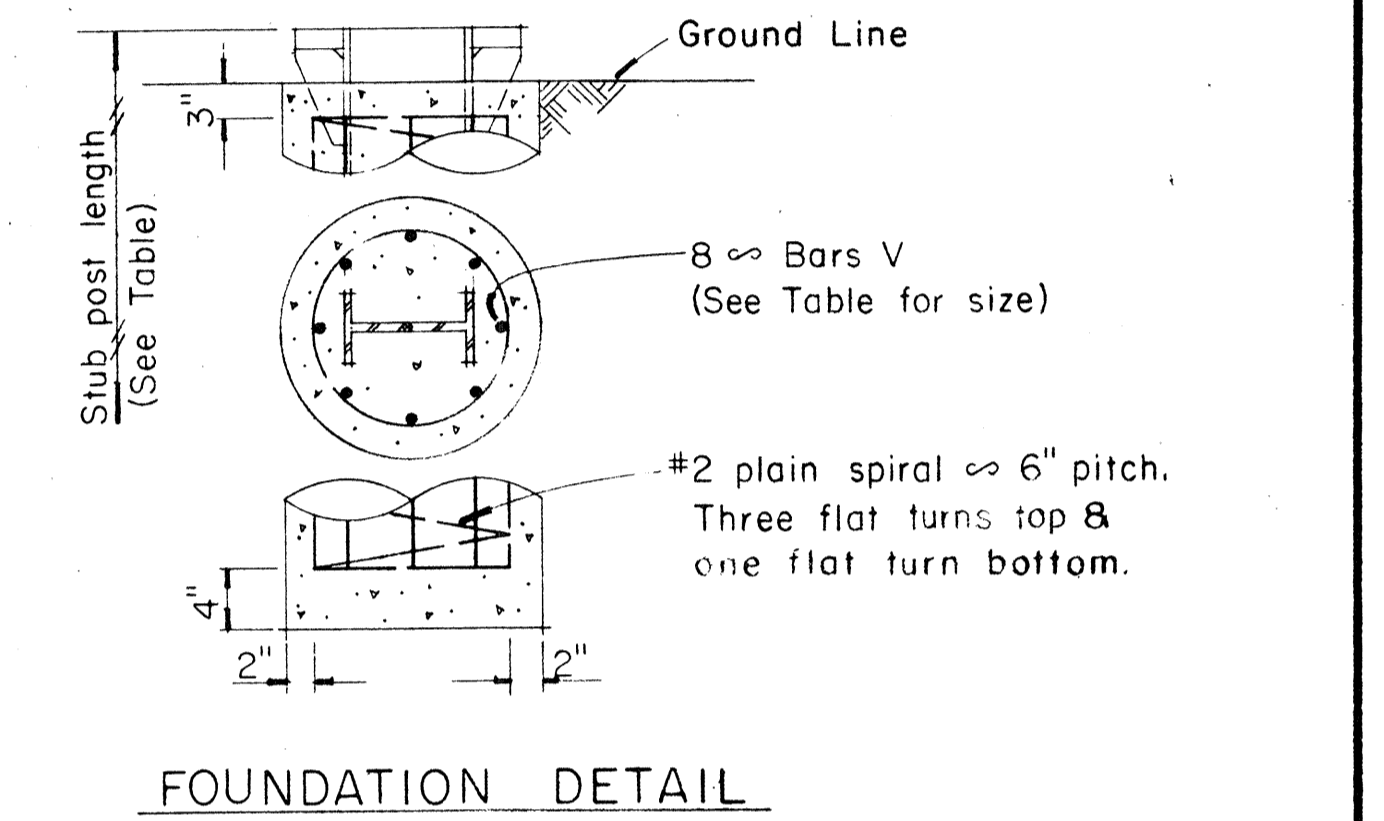
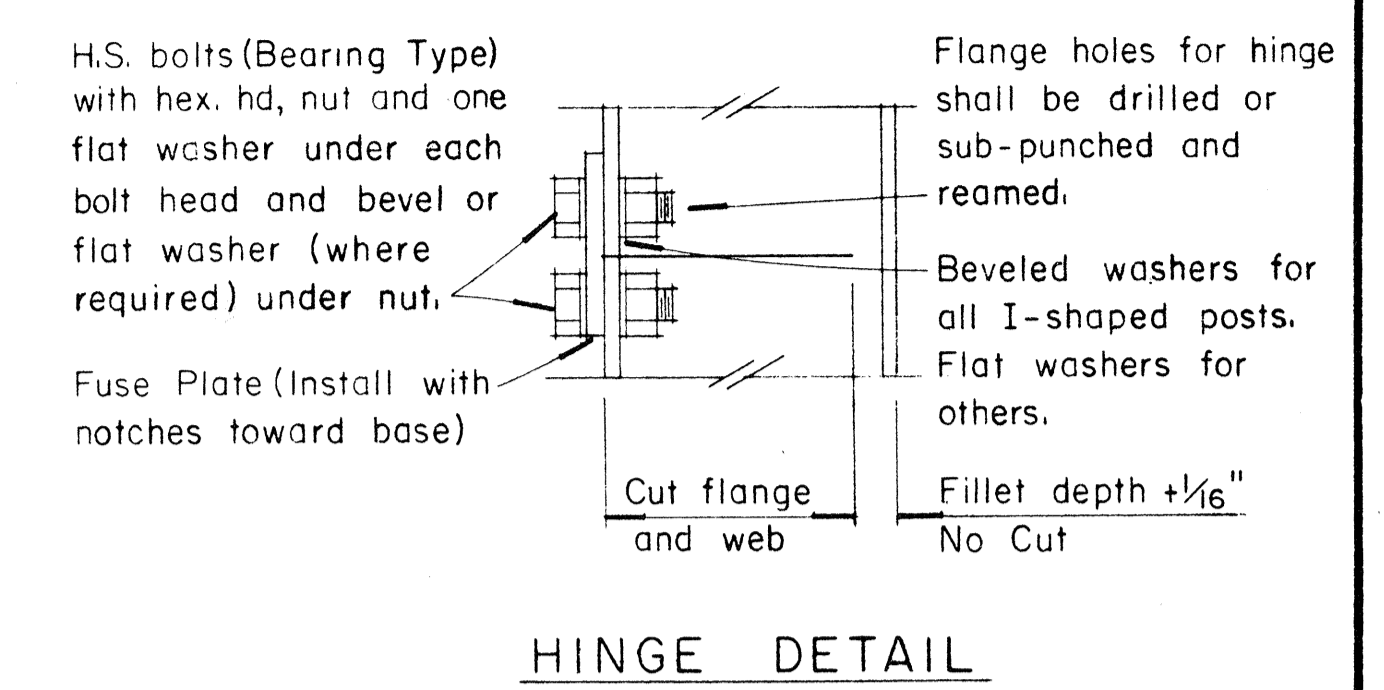
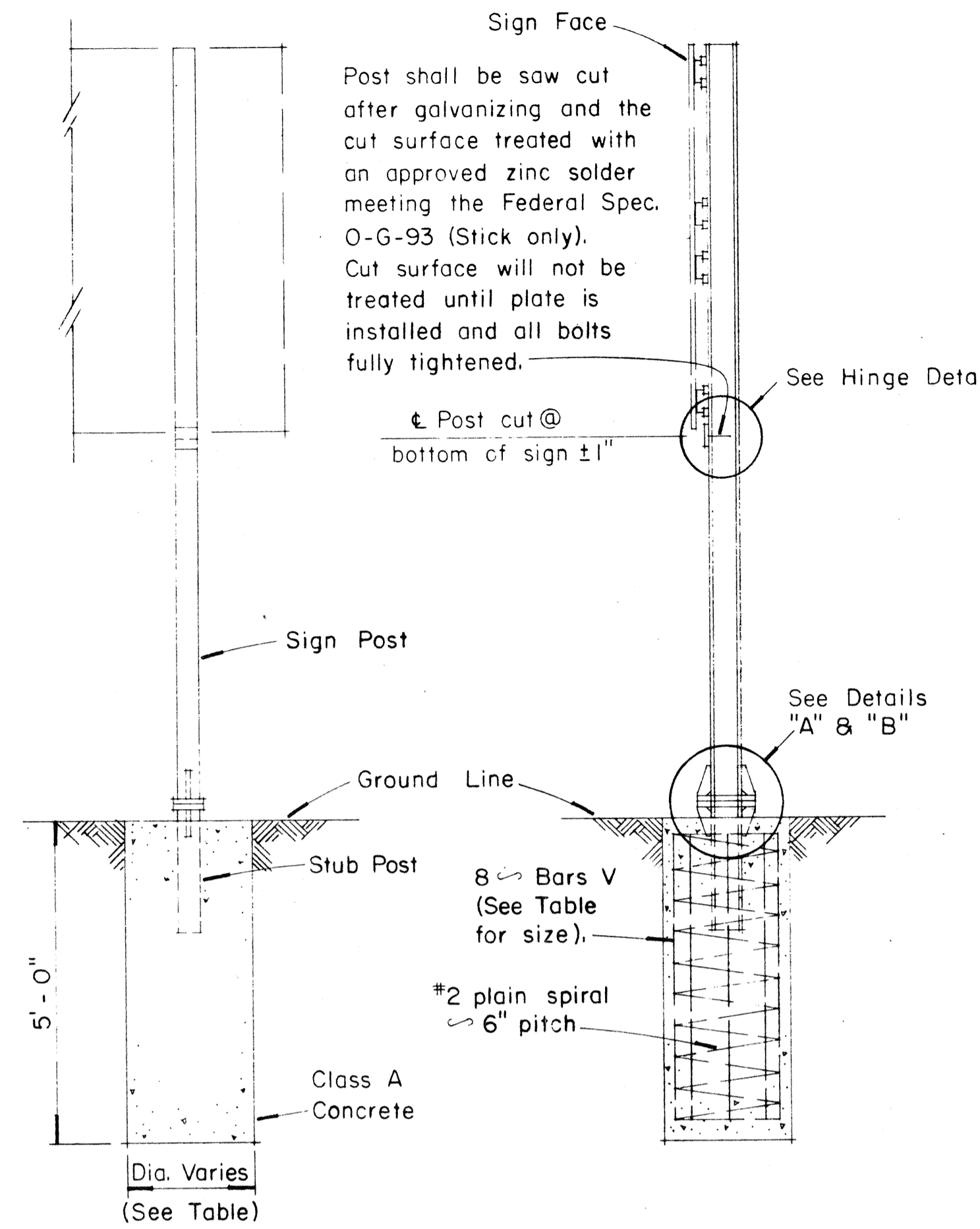
**STANDARD DETAILS**  
**DESTINATION & GROUND MOUNTED EXPRESSWAY SIGNS**

Scale: As Shown  
 SHEET No. 28 OF 34 SHEETS DT 203

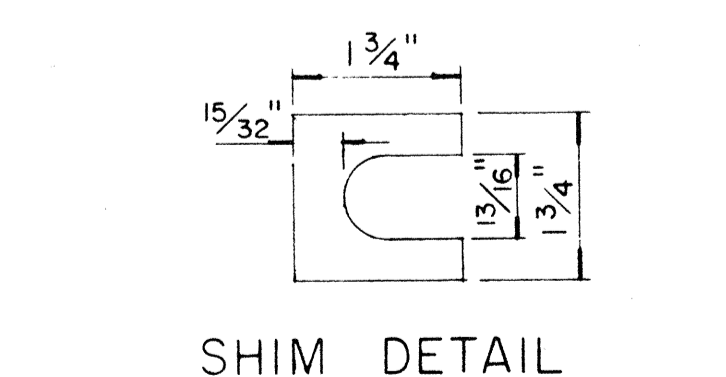
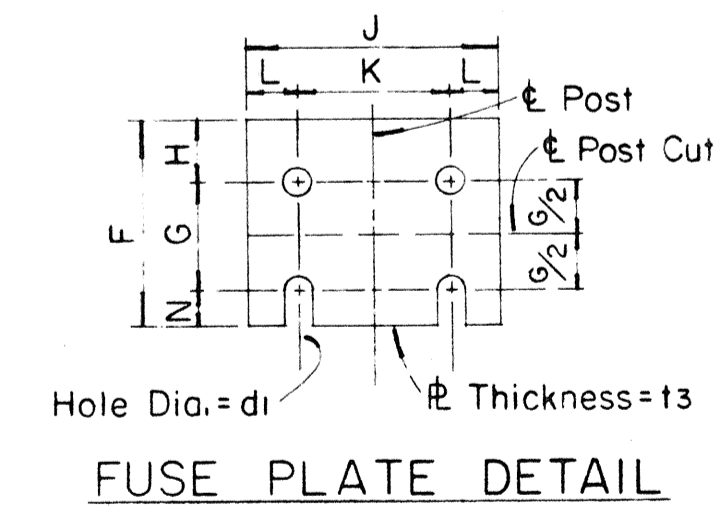
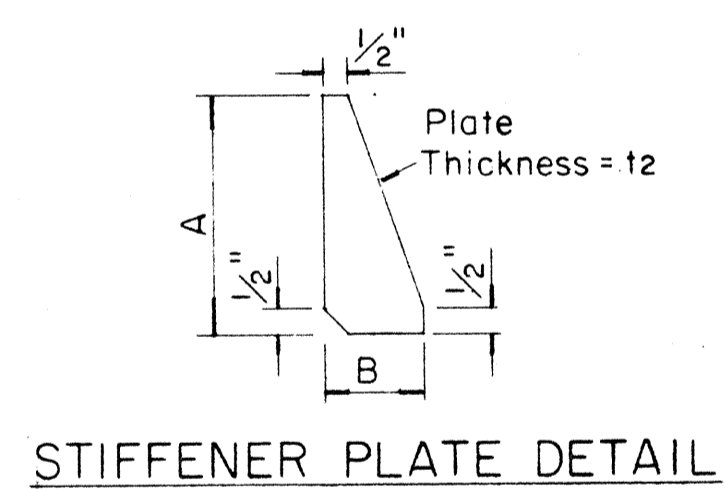
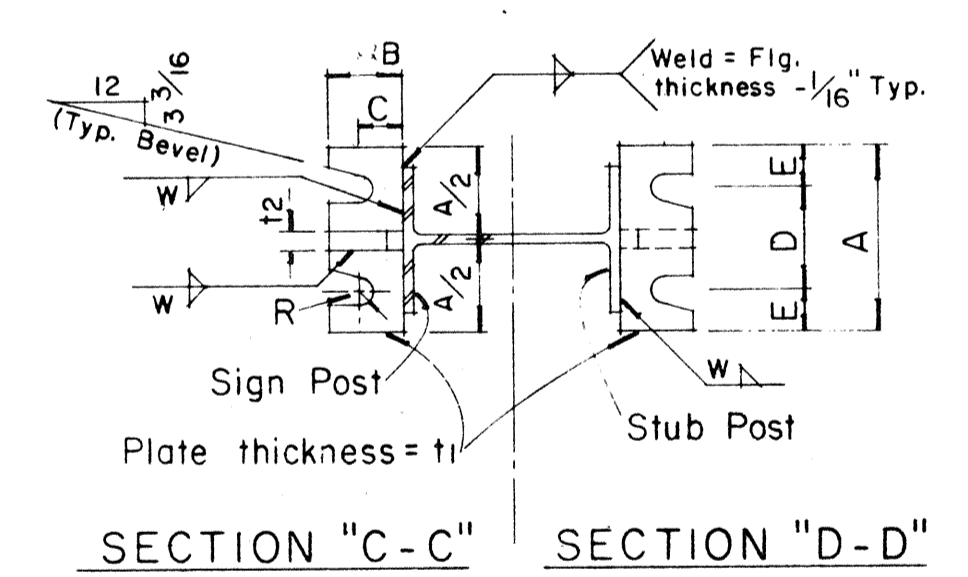
DATE  
 SURVEY PLOTTED BY  
 DRAWN BY  
 DESIGNED BY  
 QUANTITIES BY  
 CHECKED BY  
 No.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H2-1(12)-0	1973	92	171

BASE CONNECTION DATA TABLE											FUSE PLATE DATA TABLE										FOUNDATION DATA				
Post Size	Bolt Size & Torque	A	B	C	D	E	t1	t2	W	R	F	G	H	J	K	L	N	d1	t3	Bolt Dia.	Wt. of each Fuse Pl.	Stub Length	Stub Projection	Footing Diameter	Bars V Size
6 B 8.5	5/8" $\phi$ x 2 3/4" Torque = 450#	5"	2"	1 1/4"	2 3/4"	1 1/8"	3/4"	1/2"	1/4"	1 1/32"	3 5/8"	2"	1 1/8"	4"	2 1/4"	7/8"	1/2"	9/16"	1/4"	1/2" $\phi$	1.09#	2'-0"	3"	2'-0"	#5
6 B 12											3 3/4"	2"	1 1/8"	4"	2 1/4"	7/8"	5/8"	1 1/16"	3/8"	5/8" $\phi$	1.60#	2'-0"	3"	2'-0"	#5
6 B 15.5											4 1/2"	2 1/2"	1 1/4"	6"	3 1/2"	1 1/4"	3/4"	1 3/16"	1/2"	3/4" $\phi$	3.75#	2'-6"	3"	2'-0"	#6
8 WF 17											4 1/2"	2 1/2"	1 1/4"	5 1/4"	2 3/4"	1 1/4"	3/4"	1 3/16"	1/2"	3/4" $\phi$	3.27#	2'-6"	3"	2'-0"	#7
8 WF 20	3/4" $\phi$ x 3 1/2" Torque = 750#	6"	2 1/4"	1 3/8"	3 1/2"	1 1/4"	1"	3/4"	5/16"	1 3/32"	4 7/8"	2 1/2"	1 1/2"	5 3/4"	2 3/4"	1 1/2"	7/8"	1 5/16"	9/16"	7/8" $\phi$	3.93#	3'-0"	2 1/2"	2'-0"	#8
10 WF 21											5 3/8"	3"	1 1/2"	5 3/4"	2 3/4"	1 1/2"	7/8"	1 5/16"	9/16"	7/8" $\phi$	4.75#	3'-0"	2 1/2"	2'-0"	#9
10 WF 25											5 3/8"	3"	1 1/2"	5 3/4"	2 3/4"	1 1/2"	7/8"	1 5/16"	9/16"	7/8" $\phi$	4.79#	3'-0"	2 1/2"	2'-0"	#10
12 WF 27											5 3/8"	3"	1 1/2"	6 1/2"	3 1/2"	1 1/2"	7/8"	1 5/16"	9/16"	7/8" $\phi$	5.42#	3'-0"	2 1/2"	2'-0"	#11
3 I 5.7	1/2" $\phi$ x 2 1/2" Torque = 200#	SEE DETAIL "A"									3 1/8"	1 1/2"	1 1/8"	2 5/8"	1 1/2"	9/16"	1/2"	9/16"	1/4"	1/2" $\phi$	0.64#	1'-6"	3 1/2"	1'-6"	#5
4 I 7.7		3 1/8"	1 1/2"	1 1/8"	2 5/8"	1 1/2"	9/16"	1/2"	9/16"	1/4"	1/2" $\phi$	0.64#	1'-6"	3 1/2"	1'-6"	#5									



NOTE:  
Sections shown are for installations on right shoulder and in gore. Reverse plate slot bevels for installations on left shoulder.



GENERAL NOTES

- Design conforms with AASHTO Specifications for the design and Construction of Structural Supports for Highway Signs.
- Materials and Fabrication shall conform to the requirements of the Standard Specifications and Special Provisions.
- All holes shall be drilled. All plate cuts shall preferably be saw cuts, however; flame cutting will be permitted provided all edges are ground. Metal projecting beyond the plane of the plate face will not be tolerated.
- Tighten the high strength bolts in the base connection only to the torque shown, do not overtighten. All bolts other than high strength bolts shall conform to ASTM A 307, Class A.
- All structural steel, bolts, nuts and washers shall be galvanized as per the Standard Specifications and Special Provisions. Structural steel to be galvanized after fabrication except as noted.
- Structural steel shall conform with the requirements of ASTM A 441
- Galvanizing of all posts shall be projection above concrete plus 6" minimum.
- All friction fuse bolts shall be tightened in the shop following a method approved by the Engineer. Tightening shall be to such a degree as to obtain the following minimum residual tension in each bolt:

Bolt Size	Min. Tension	Bolt Size	Min. Tension
1/2" $\phi$	12050 Lbs.	3/4" $\phi$	28400 Lbs.
5/8" $\phi$	19200 Lbs.	7/8" $\phi$	36050 Lbs.

Furnish 2  $\phi$  .012"  $\pm$  thick and 2  $\phi$  .032"  $\pm$  thick shims per post. Shims shall be fabricated from brass shim stock or strip conforming to A.S.T.M. - B 36.

APPROVAL RECOMMENDED:  
*Eishi Tanaka*  
TRAFFIC ENGINEER  
DATE: 12/29/69

APPROVED:  
*John J. [Signature]*  
ASSISTANT CHIEF, ENGINEERING  
DATE: 12-30-69

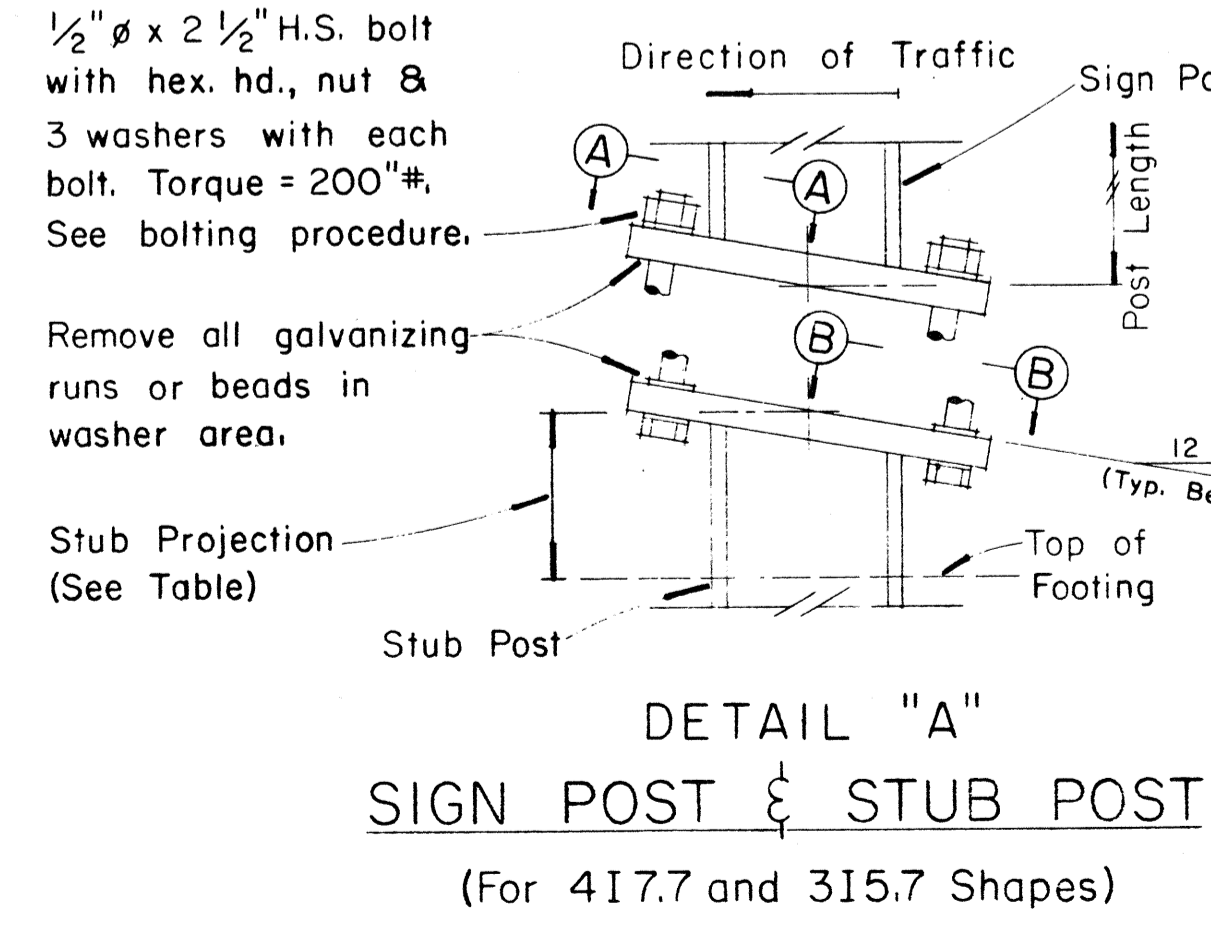
NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

STANDARD DETAILS  
BREAK-AWAY SIGN SUPPORTS  
FOR  
GROUND MOUNTED GUIDE SIGNS

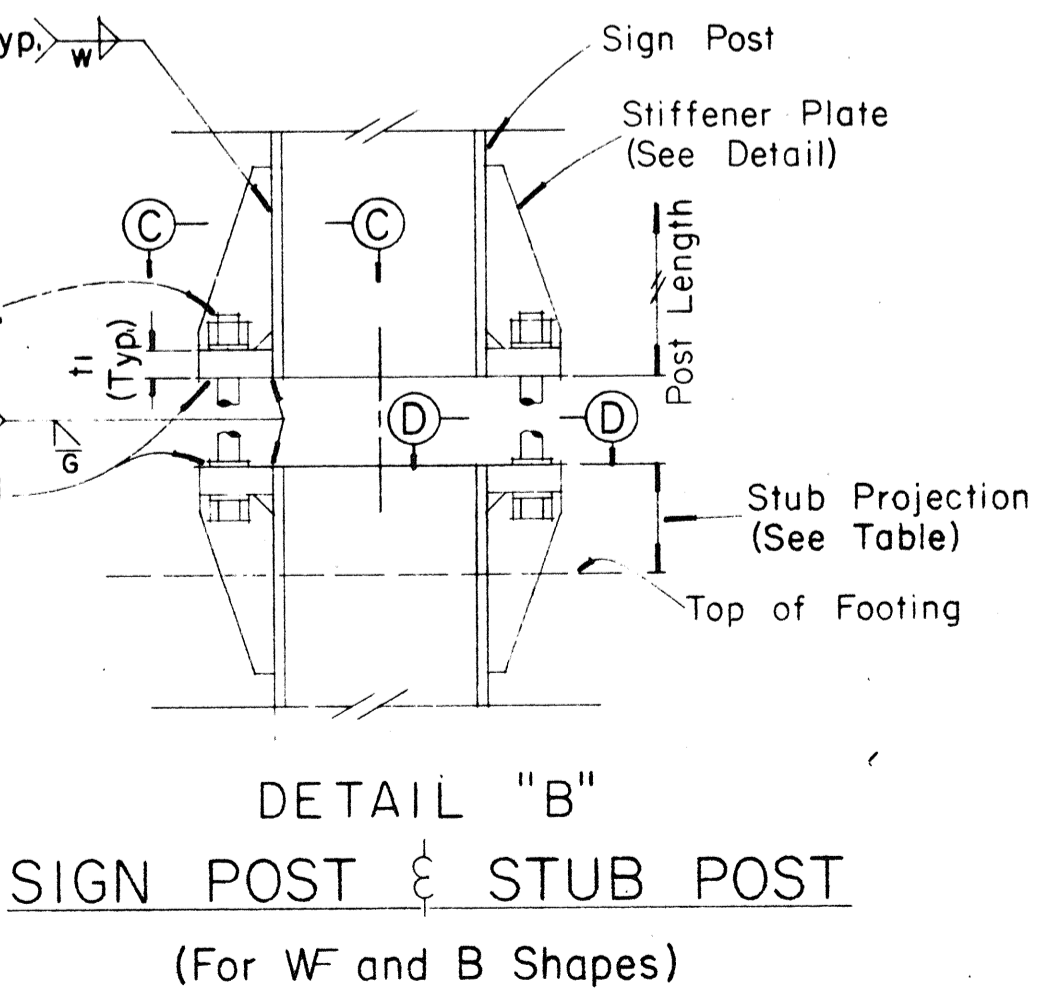
Not to Scale

DATE  
DESIGNED BY  
CHECKED BY  
QUANTITIES BY  
NOTE BOOK  
ORIGINAL PLAN



PROCEDURE FOR ASSEMBLY OF BASE CONNECTION:

- Assemble post to stub with bolts and with one flat washer on each bolt between plates.
- Shim as required to plumb post.
- Tighten all bolts the max. possible with 12" to 15" wrench to bed washers & shims and to clean bolt threads then loosen each bolt in turn & retighten bolts in systematic order to prescribed torque. (See Table)
- Burr threads at junction with nut using a center punch to prevent nut loosening.



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-112-1(12)-0	1973	93	171

(OVERHEAD SIGNS)  
SUPPORT SPACING TABLE

PANEL THICK.	LENGTH OF SIGN A	NO. OF SUPPORTS	OVERHANG	
			B	C or C <sub>1</sub>
1"	6'-0"	2	12"	48"
1"	6'-6"	2	15"	48"
1"	7'-0"	2	15"	54"
1"	7'-6"	2	18"	54"
1"	8'-0"	2	18"	60"
1"	8'-6"	2	20"	62"
1"	9'-0"	2	22"	64"
1"	9'-6"	2	23"	68"
1"	10'-0"	2	24"	72"
1"	10'-6"	2	24"	78"
1"	11'-0"	2	24"	84"
1"	11'-6"	2	27"	84"
1"	12'-0"	2	30"	84"
1"	12'-6"	2	30"	90"
1"	13'-0"	2	30"	96"
1"	13'-6"	2	30"	102"
1"	14'-0"	2	30"	108"
1"	14'-6"	2	36"	102"
1"	15'-0"	2	36"	108"
1"	15'-6"	3	24"	69"
1"	16'-0"	3	24"	72"
1"	16'-6"	3	24"	75"
1"	17'-0"	3	24"	78"
1"	17'-6"	3	24"	81"
1"	18'-0"	3	24"	84"
1"	18'-6"	3	27"	84"
1"	19'-0"	3	27"	87"
1"	19'-6"	3	27"	90"
1"	20'-0"	3	30"	90"
1"	20'-6"	3	30"	93"
1"	21'-0"	3	30"	96"
1"	21'-6"	3	33"	96"
1"	22'-0"	3	36"	96"
1"	22'-6"	3	36"	99"
1"	23'-0"	3	36"	102"
1"	23'-6"	3	36"	105"
1"	24'-0"	3	36"	108"

APPROVAL RECOMMENDED:  
*Eishi Tanaka* 12/29/69  
TRAFFIC ENGINEER DATE

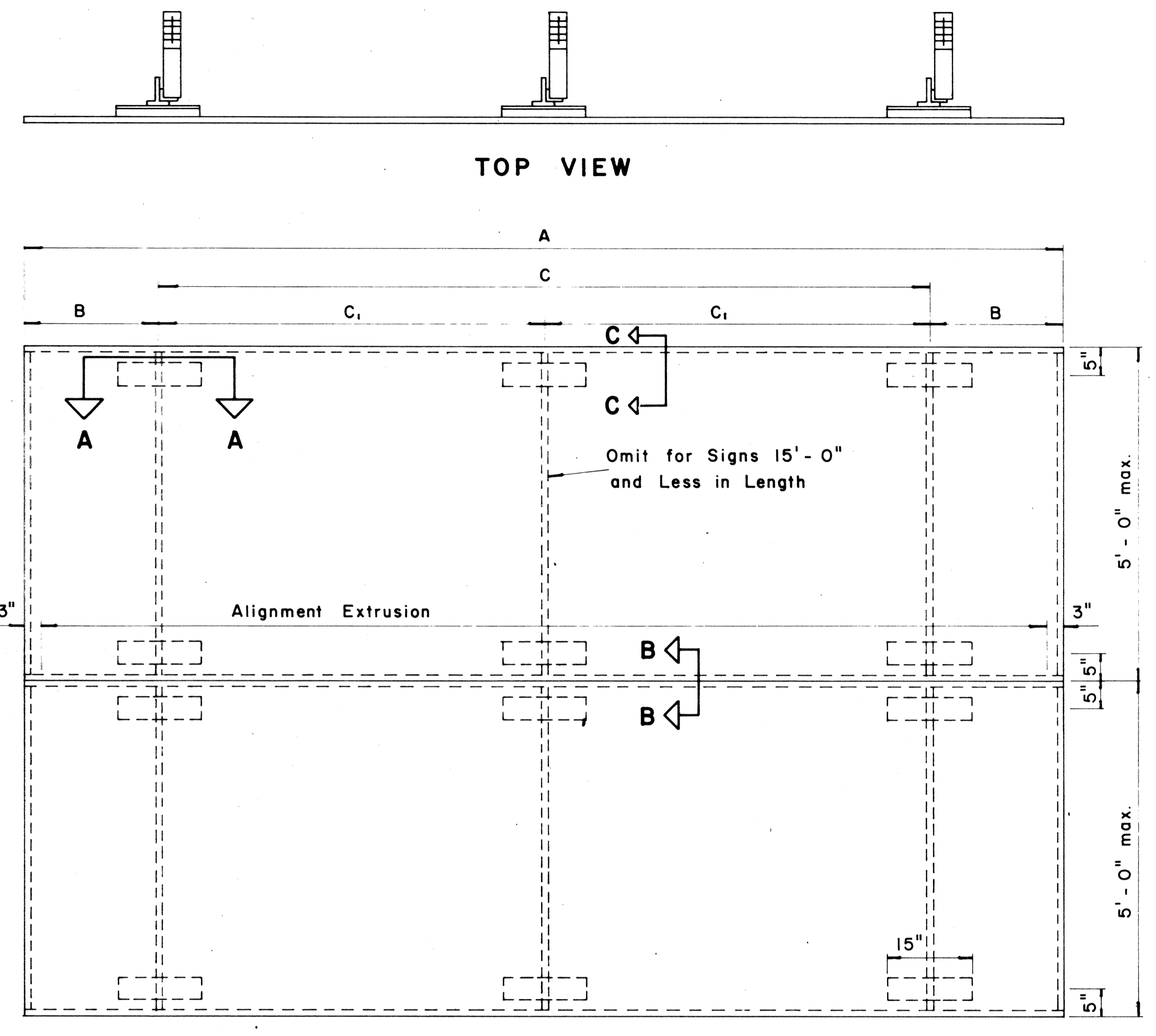
APPROVED:  
*W. S. Seal* 12-30-69  
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE

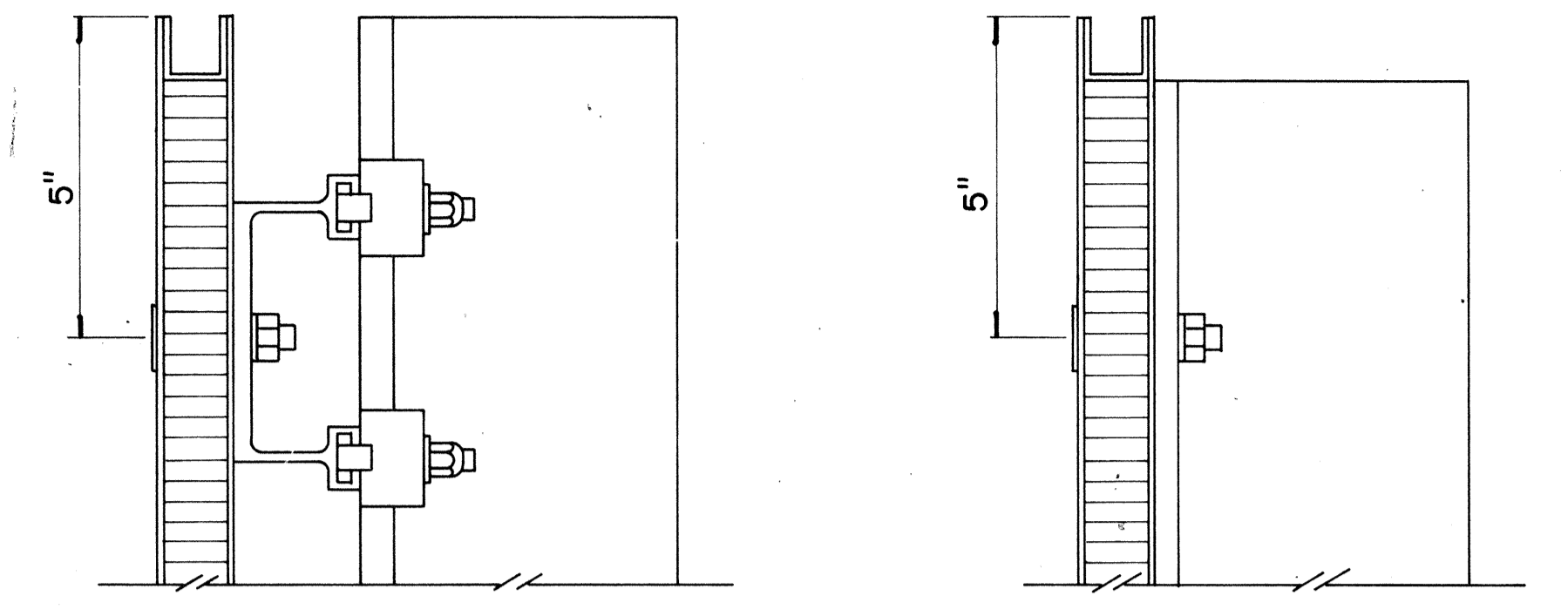
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**STANDARD DETAILS**  
LAMINATED ALUMINUM  
SIGN PANELS  
(OVERHEAD)

Scale: As Shown

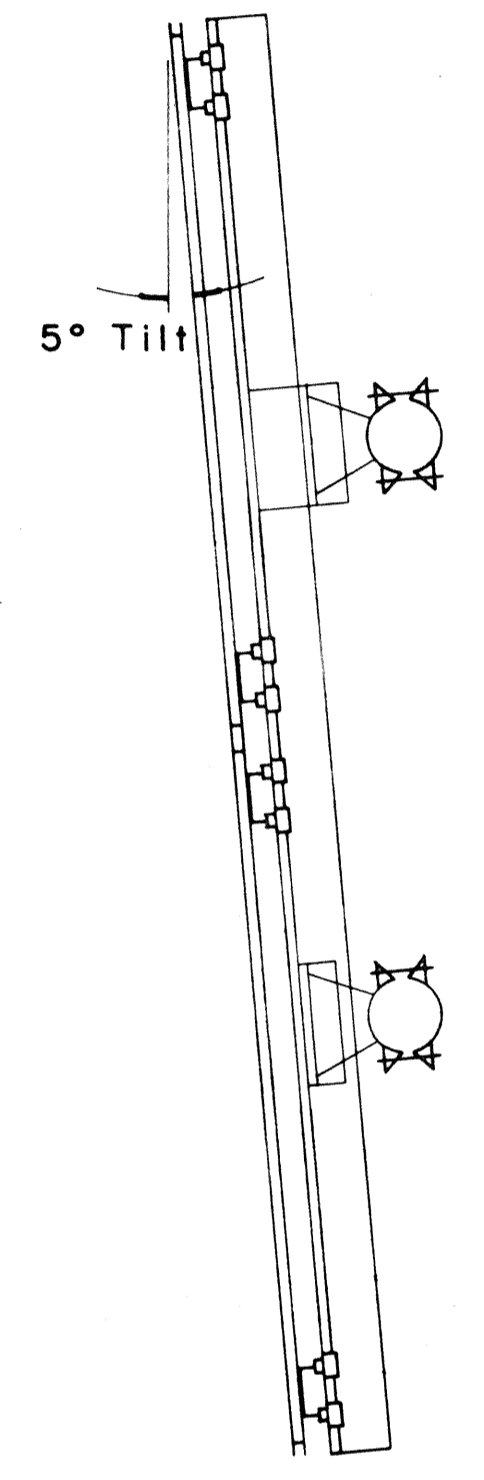


**TYPICAL SIGN ASSEMBLY**  
Scale:  $\frac{3}{4}$ " = 1'-0"

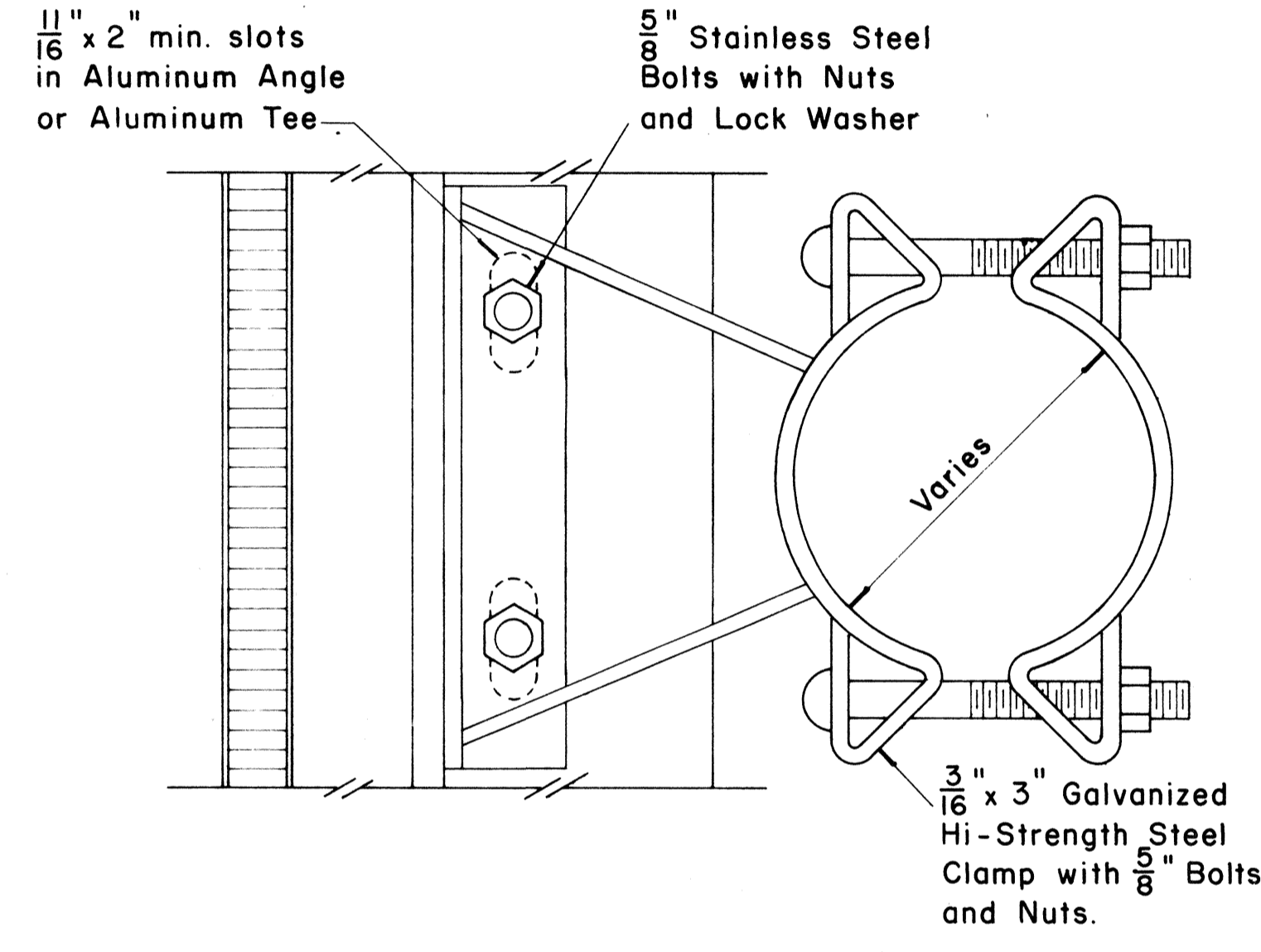


**SECTION "C-C"**  
Scale:  $\frac{3}{8}$ " = 1"

**SECTION "C-C" (Alternate)**  
Scale:  $\frac{3}{8}$ " = 1"

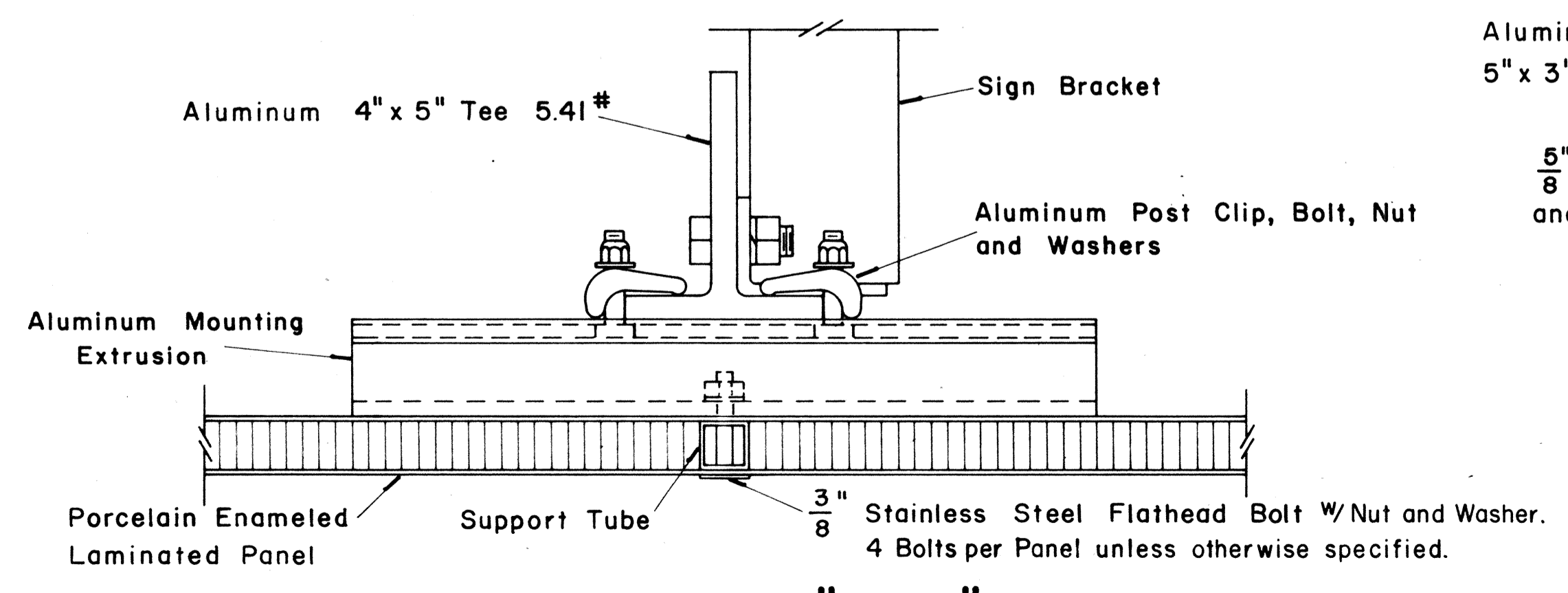


**SIDE VIEW**

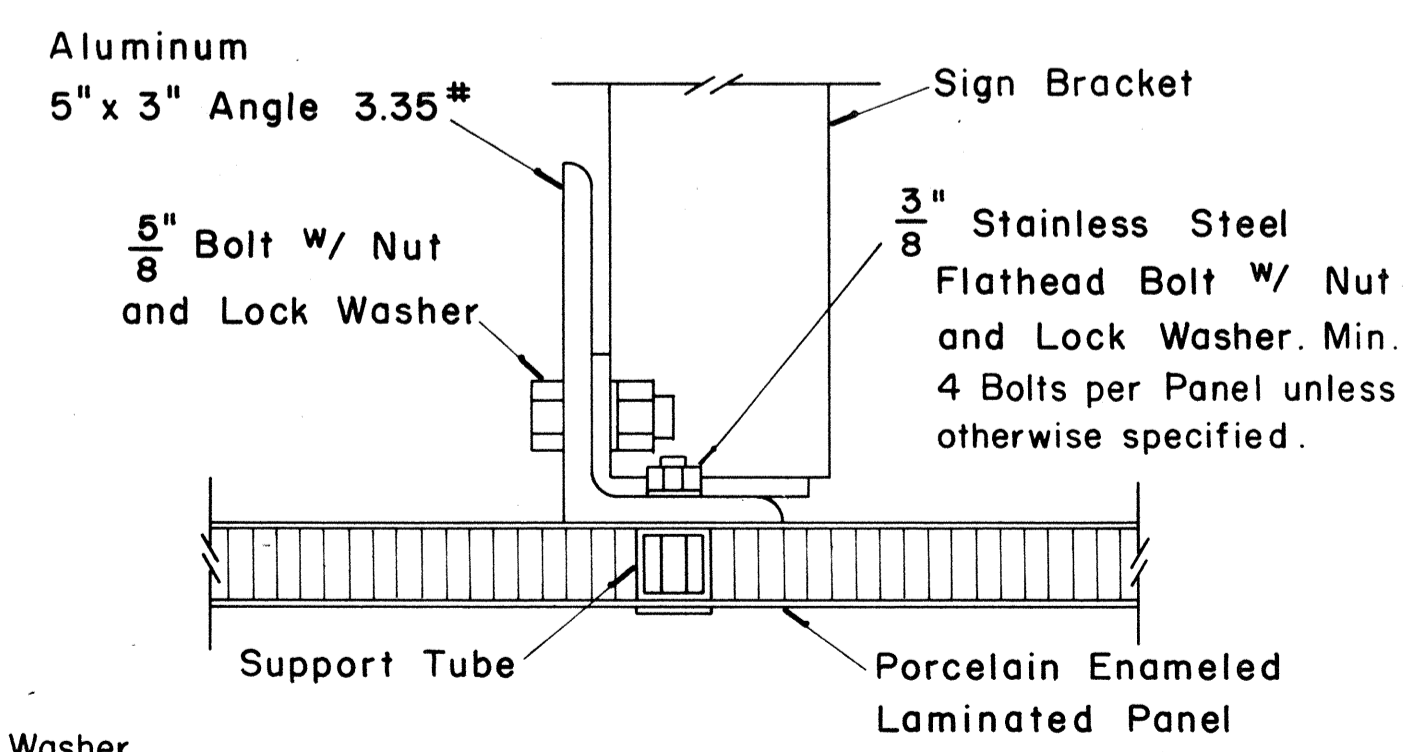


**SIGN BRACKET ASSEMBLY**  
Scale:  $\frac{3}{8}$ " = 1"

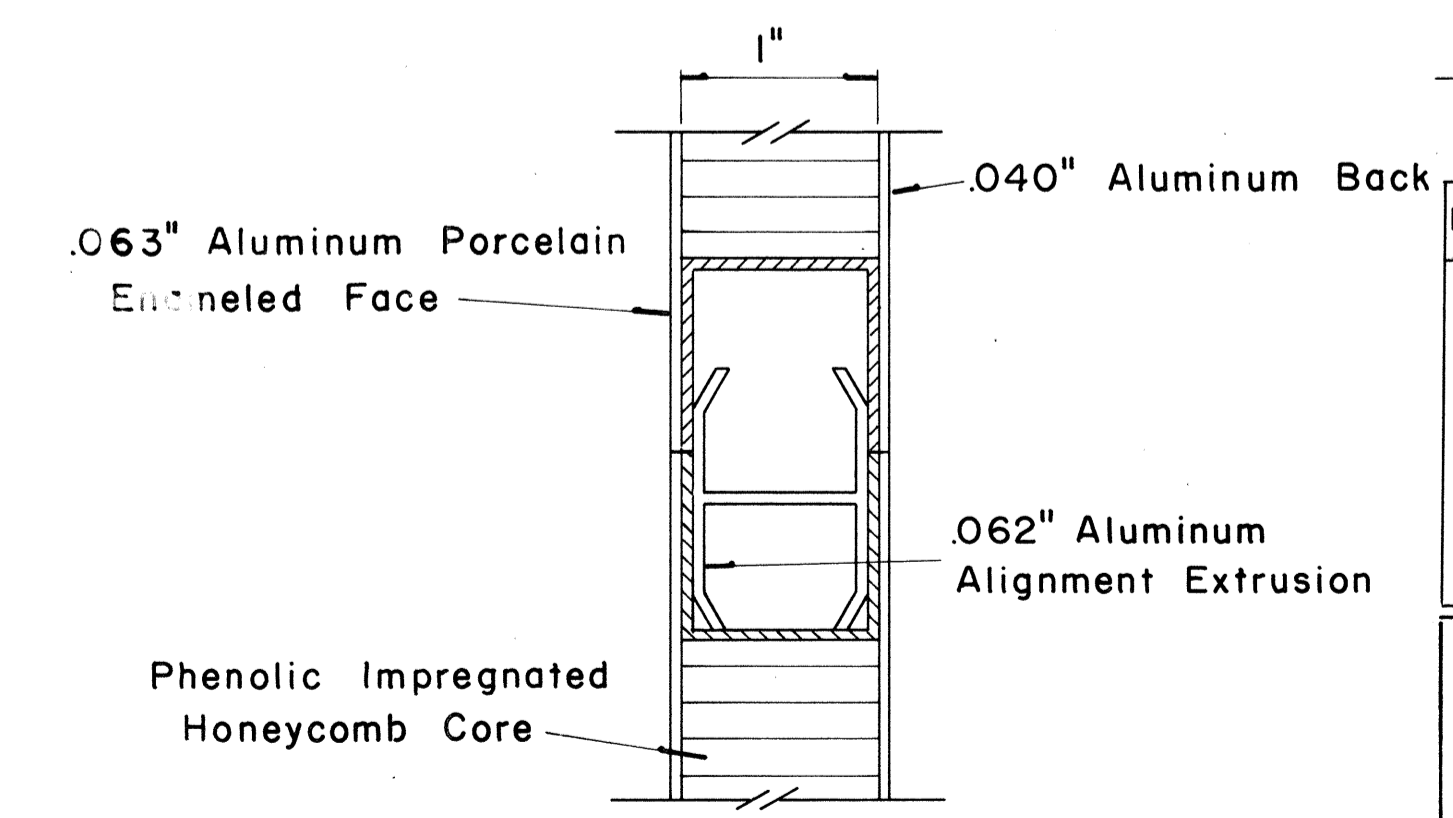
NOTE: For additional details of Sign Bracket Assembly, see Standard Detail Sheet "Overhead Sign Supports."



**SECTION "A-A"**  
Scale:  $\frac{3}{8}$ " = 1"



**SECTION "A-A" (Alternate)**  
Scale:  $\frac{3}{8}$ " = 1"



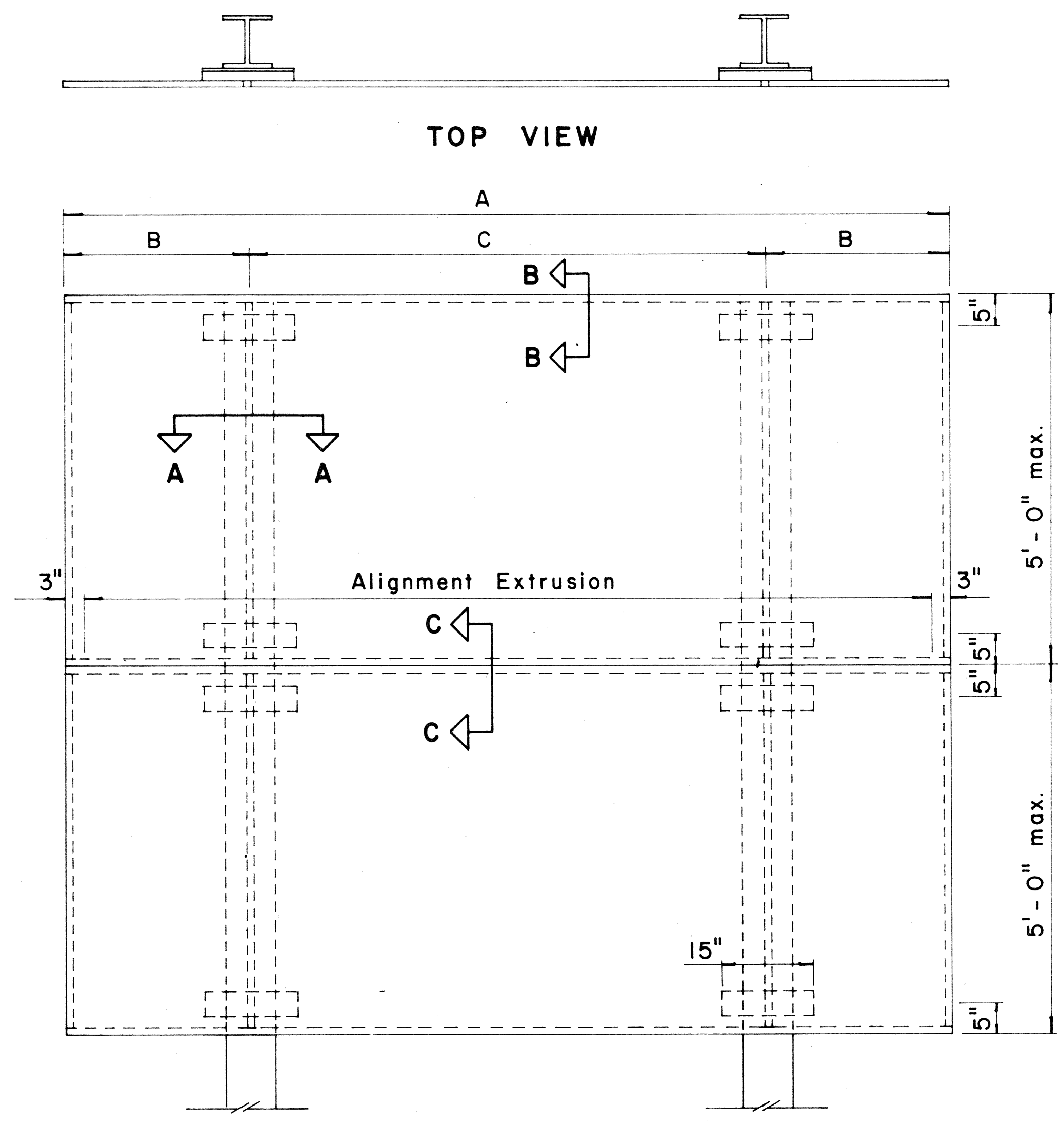
**CLOSURE DETAIL SECTION "B-B"**  
FULL SCALE

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

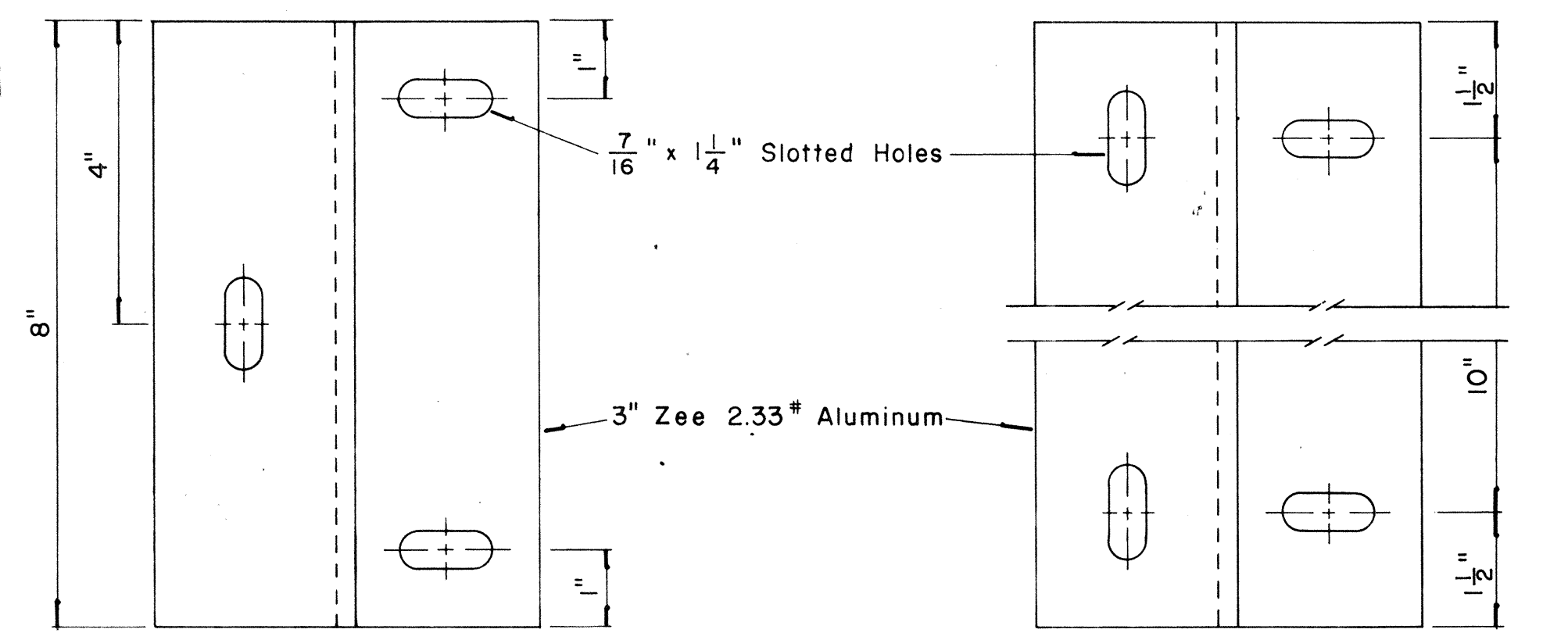
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-2-102-0	1973	74	171

(GROUND MOUNTED SIGNS)  
SUPPORT SPACING TABLE

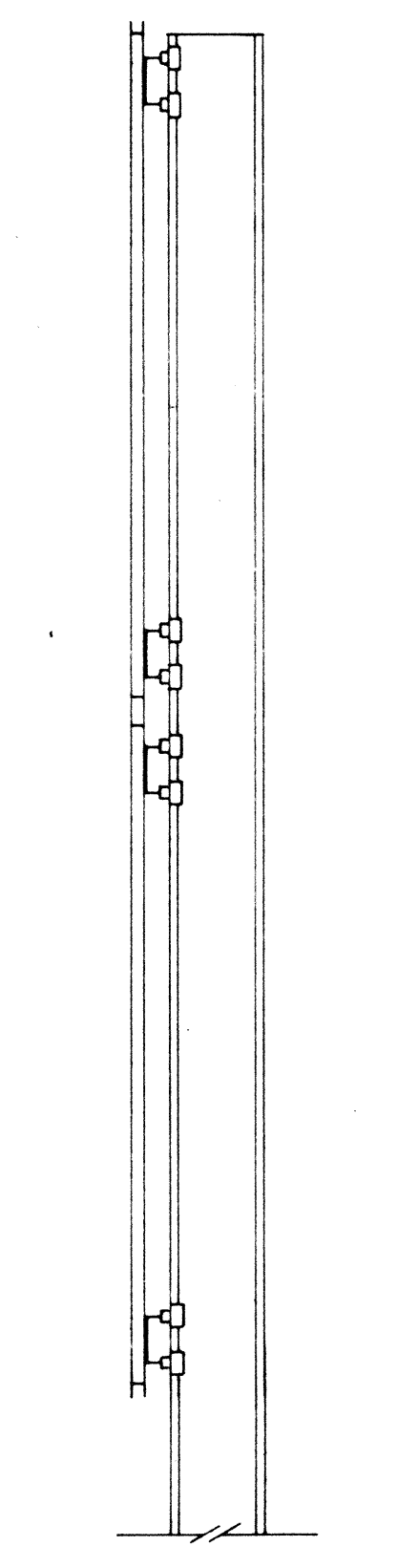
PANEL THICK.	LENGTH OF SIGN	NO. OF SUPPORTS	OVERHANG SUPPORT SPACING	
			B	C
1"	6'-0"	2	12"	48"
1"	6'-6"	2	15"	48"
1"	7'-0"	2	15"	54"
1"	7'-6"	2	18"	54"
1"	8'-0"	2	18"	60"
1"	8'-6"	2	20"	62"
1"	9'-0"	2	22"	64"
1"	9'-6"	2	23"	68"
1"	10'-0"	2	24"	72"
1"	10'-6"	2	24"	78"
1"	11'-0"	2	24"	84"
1"	11'-6"	2	27"	84"
1"	12'-0"	2	30"	84"
1"	12'-6"	2	30"	90"
1"	13'-0"	2	30"	96"
1"	13'-6"	2	30"	102"
1"	14'-0"	2	30"	108"
1"	14'-6"	2	36"	102"
1"	15'-0"	2	36"	108"
2.5"	15'-6"	2	36"	114"
2.5"	16'-0"	2	39"	114"
2.5"	16'-6"	2	39"	120"
2.5"	17'-0"	2	39"	126"
2.5"	17'-6"	2	42"	126"
2.5"	18'-0"	2	42"	132"
2.5"	18'-6"	2	45"	132"
2.5"	19'-0"	2	45"	138"
2.5"	19'-6"	2	45"	144"
2.5"	20'-0"	2	48"	144"
2.5"	20'-6"	2	48"	150"
2.5"	21'-0"	2	51"	150"
2.5"	21'-6"	2	51"	156"
2.5"	22'-0"	2	51"	162"
2.5"	22'-6"	2	54"	162"
2.5"	23'-0"	2	54"	168"
2.5"	23'-6"	2	54"	174"
2.5"	24'-0"	2	57"	174"



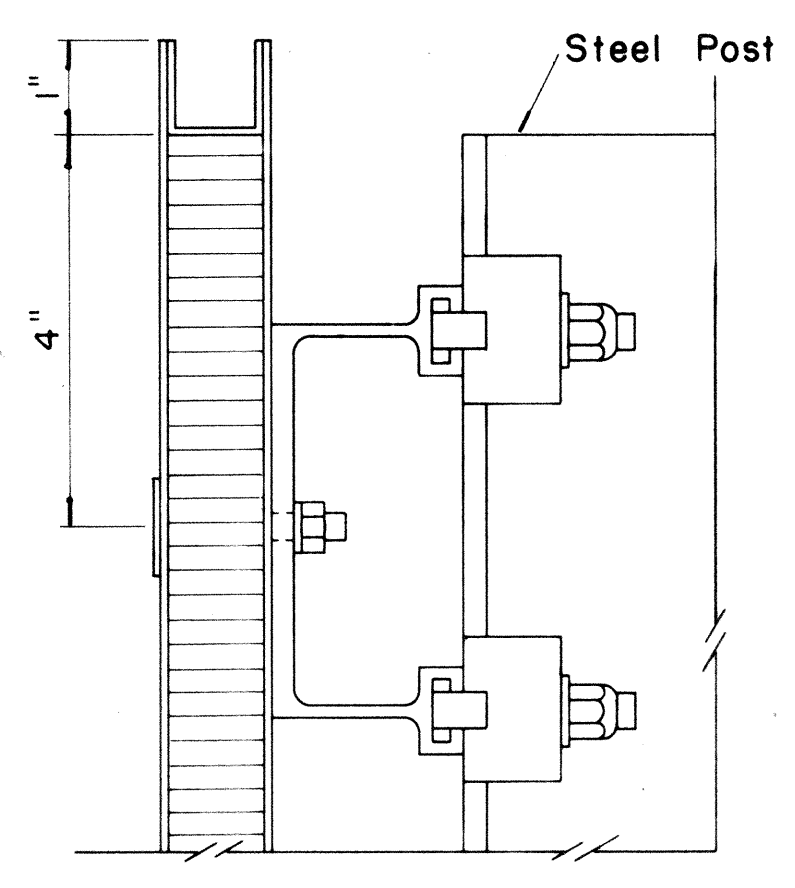
TYPICAL SIGN ASSEMBLY  
Scale:  $\frac{3}{4}$ " = 1'-0"



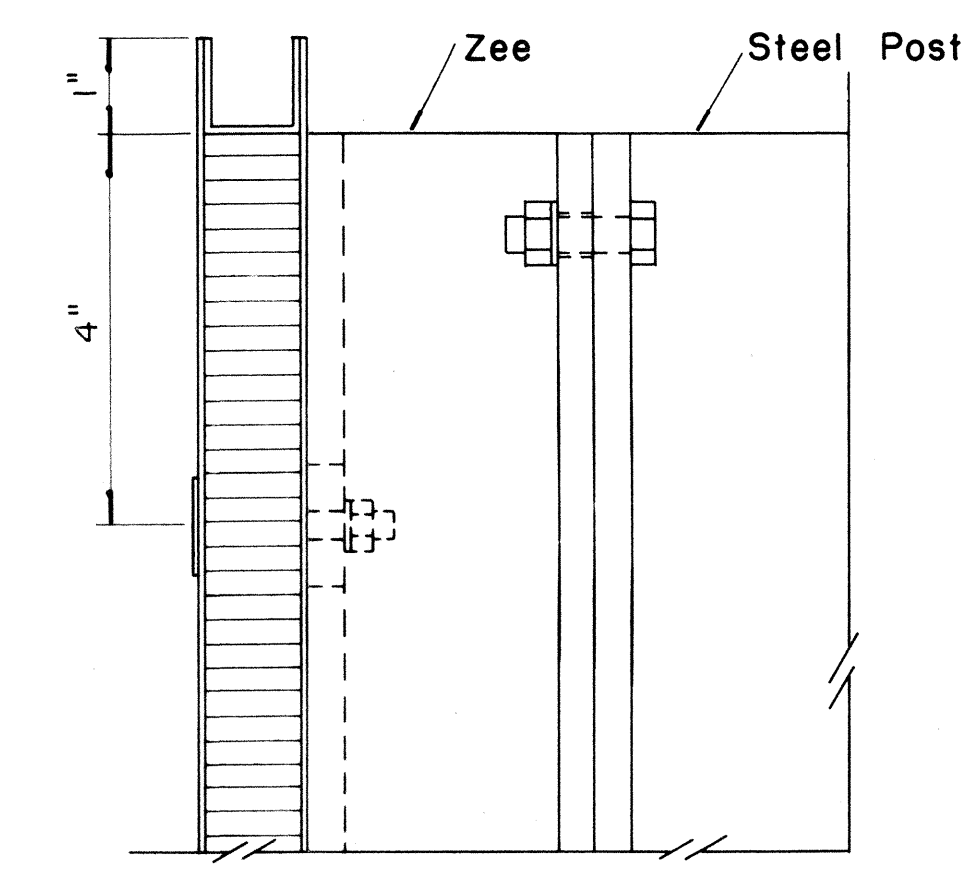
ZEE MOUNTING DETAILS  
Scale:  $\frac{1}{2}$ " = 1"



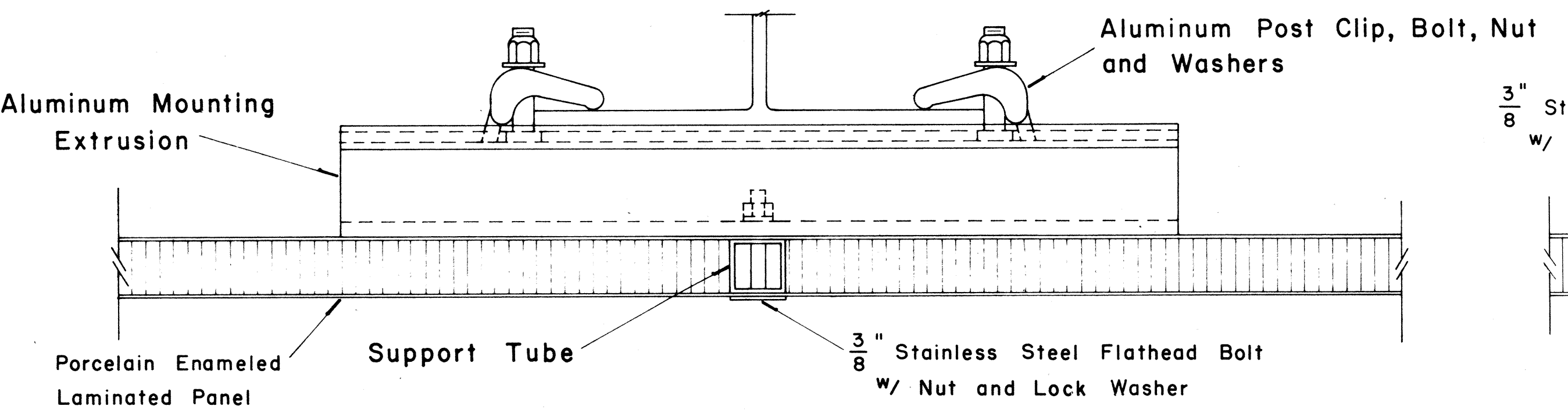
SIDE VIEW



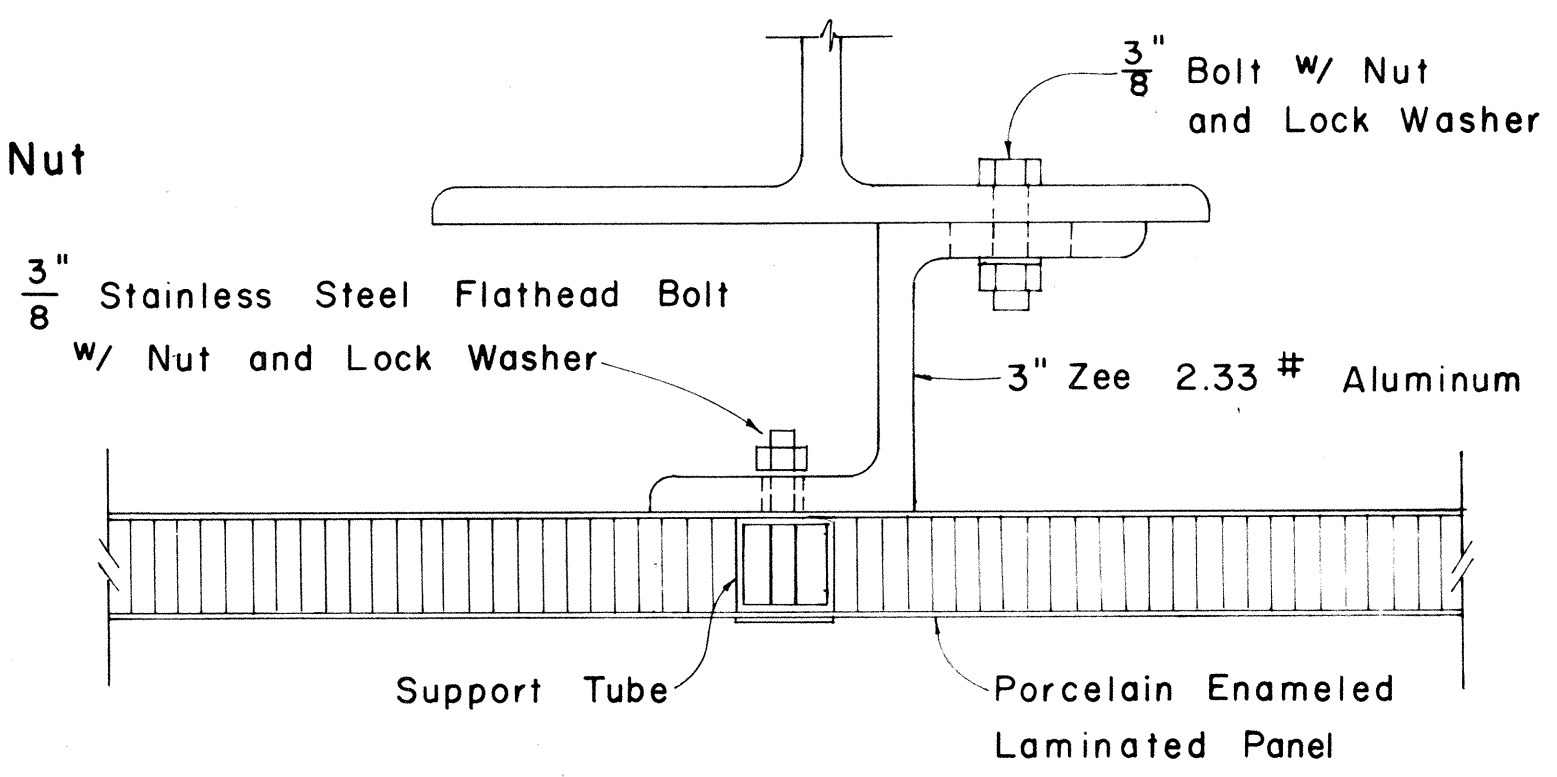
SECTION "B-B"  
Scale:  $\frac{1}{2}$ " = 1"



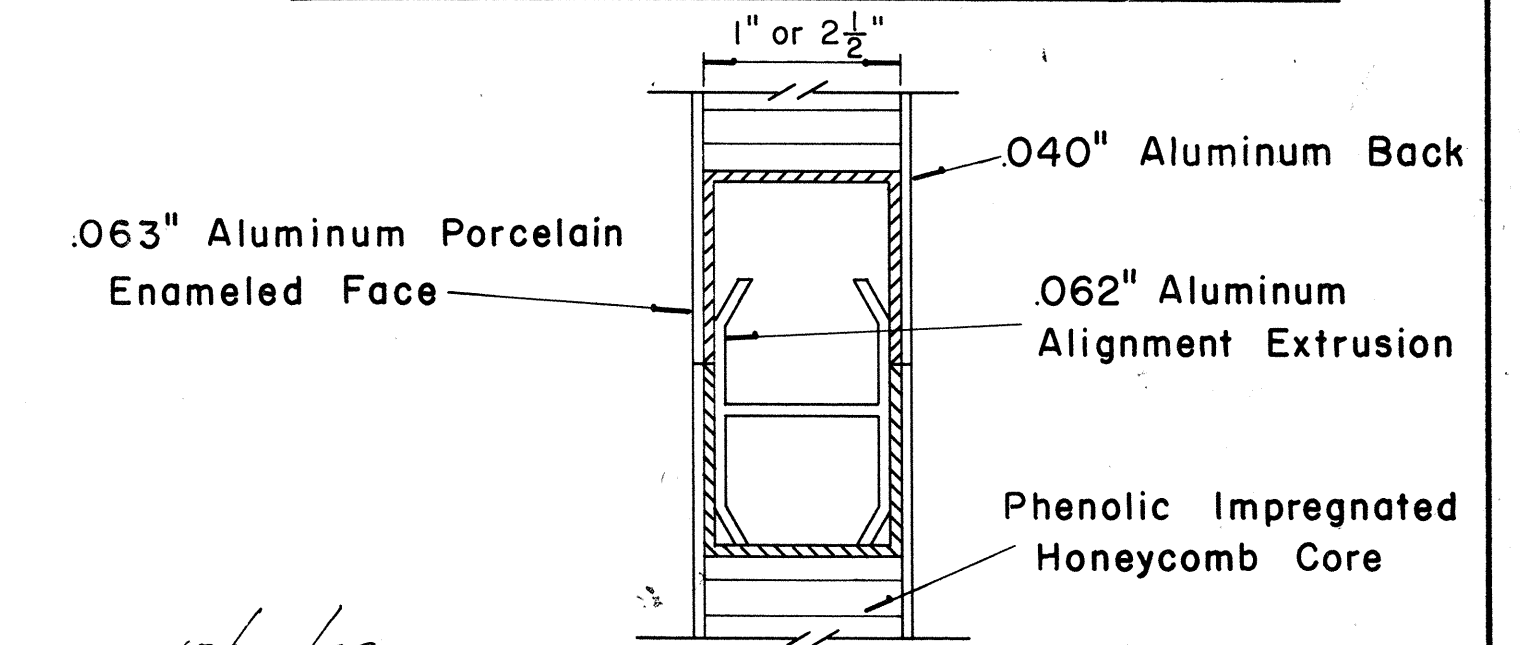
SECTION "B-B" (Alternate)  
Scale:  $\frac{1}{2}$ " = 1"



SECTION "A-A"  
Scale:  $\frac{1}{2}$ " = 1"



SECTION "A-A" (Alternate)  
Scale:  $\frac{1}{2}$ " = 1"



CLOSURE DETAIL SECTION "C-C"  
FULL SCALE

APPROVAL RECOMMENDED:  
*Eishi Tanaka* 12/29/62  
TRAFFIC ENGINEER DATE

APPROVED:  
*John J. [Signature]* 12-30-69  
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

STANDARD DETAILS  
LAMINATED ALUMINUM  
SIGN PANELS  
(GROUND MOUNTED)  
Scale: As Shown

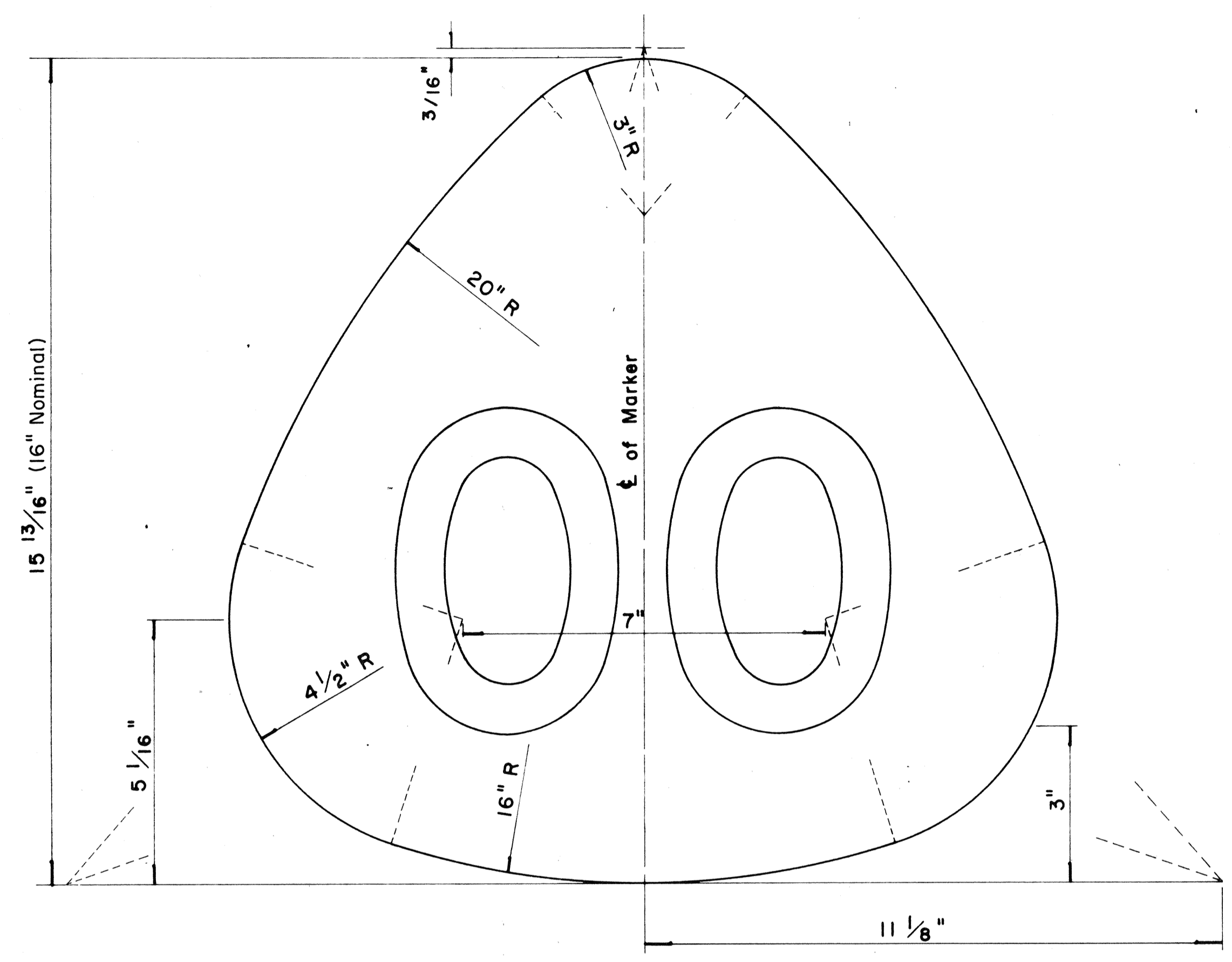
SHEET No. 31 OF 34 SHEETS DT 206

DATE  
SURVEY PLOTTED BY  
DRAWN BY  
DESIGNED BY  
CHECKED BY  
NOTE BOOK  
No.



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-42-1(12)-0	1973	96	171

MARKER SIZE	MULTIPLY DIMENSIONS BY	NUMERAL SIZE
		2 Digit - Series D 3 Digit - Series C
16"	1	6"
21"	1.3	8"
32"	2.0	12"
42"	2.63	16"



**STATE ROUTE MARKER  
FOR GUIDE SIGNS**

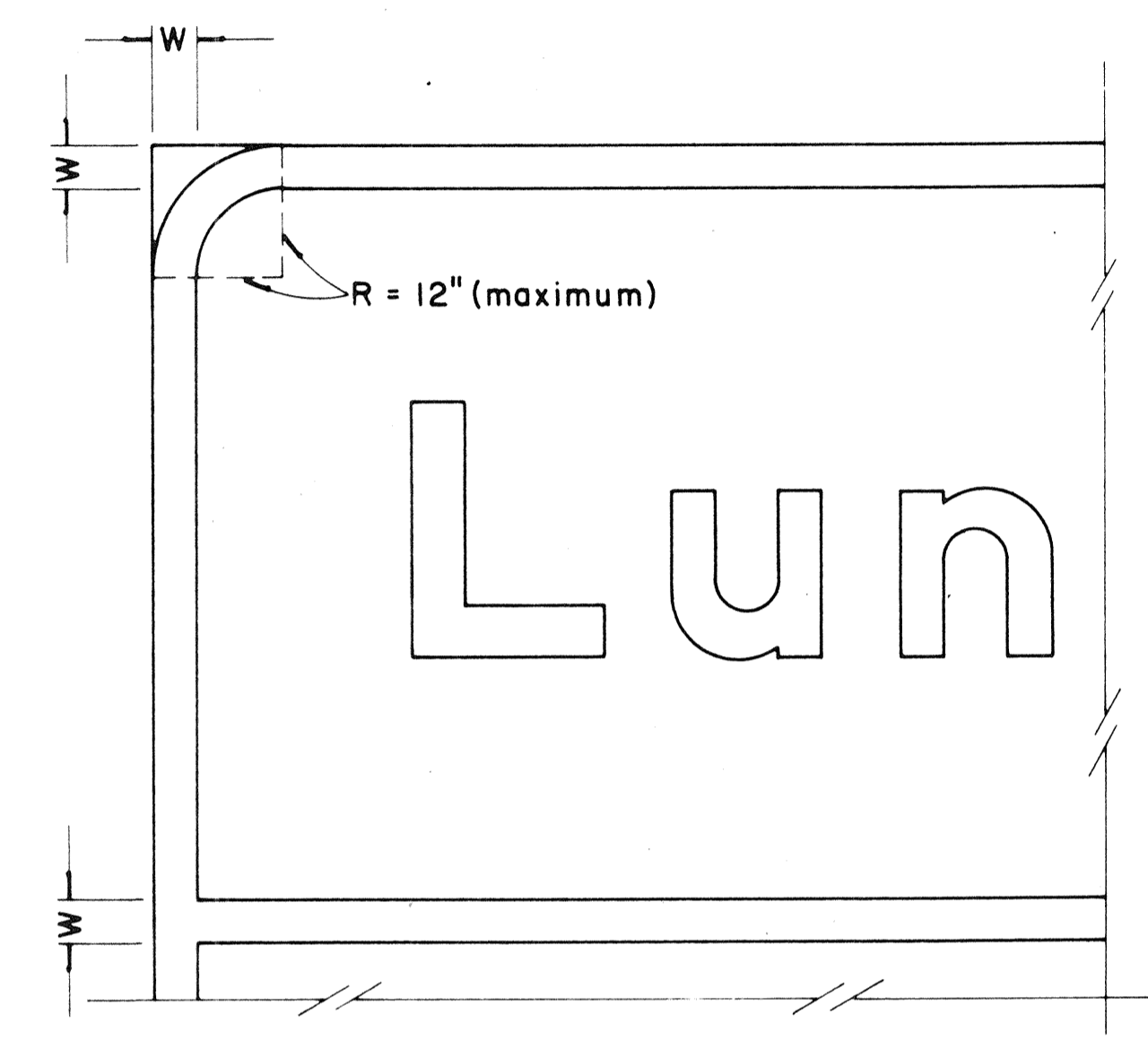
Scale: Half Size

**NOTE :**

1. State Route Markers on Guide signs shall have black numerals on a white reflectorized background mounted on a flat aluminum cut-out.
2. Numerals shall conform to the FHWA publication "Standard Alphabets for Highway Signs," 1966.
3. Cut-outs shall be fastened on sign panel with aluminum blind rivets. See Standard Specifications.
- \* 4. The 16" State Route Marker shall be used only with the Construction Identification sign.

**RADII FOR SIGNS**

Least Dimension of Sign	W	R
2'-0" to 4'-6"	2"	3"
4'-9" to 5'-6"	2"	6"
5'-9" to 7'-6"	2"	9"
7'-9" and greater	2"	12"



**BORDER DETAIL  
FOR GUIDE SIGNS**

Not to Scale

**NOTE:**

1. Area outside corner radius need not be trimmed.
2. All borders shall be embossed cut-outs, white and reflectorized.
3. All Guide signs shall have borders.

APPROVAL RECOMMENDED:

*Eisaku Tanaka* 4/11/72  
TRAFFIC ENGINEER DATE

APPROVED:

*Mulu Z. Sakishi* 4/12/72  
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 209 Approved 12-30-69	<i>N.T.</i>	4/12/72

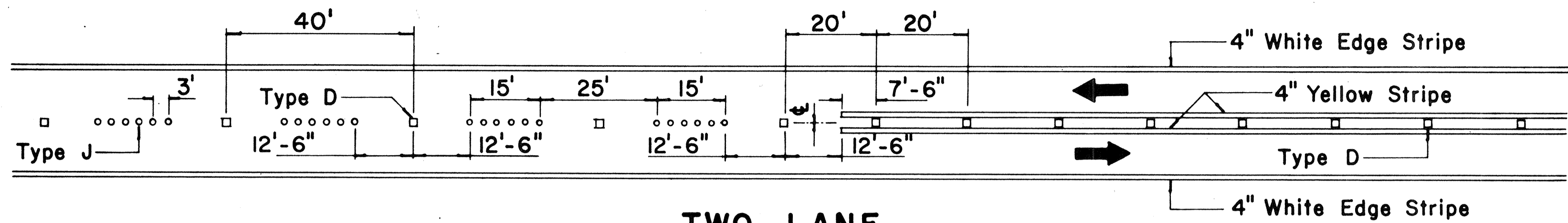
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**STANDARD DETAILS**  
**STATE ROUTE MARKER  
AND BORDER DETAIL  
FOR GUIDE SIGNS**

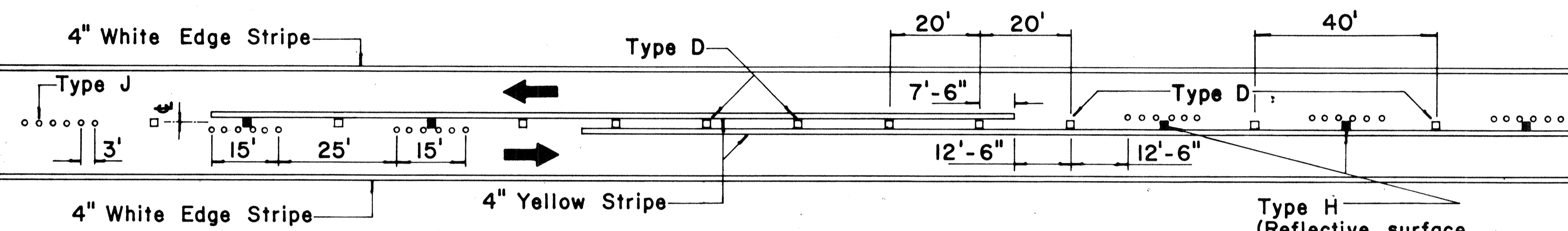
Scale: As Shown

DATE \_\_\_\_\_  
DESIGNED BY \_\_\_\_\_  
CHECKED BY \_\_\_\_\_  
ORIGINAL FILED IN \_\_\_\_\_  
NOTE BOOK No. \_\_\_\_\_

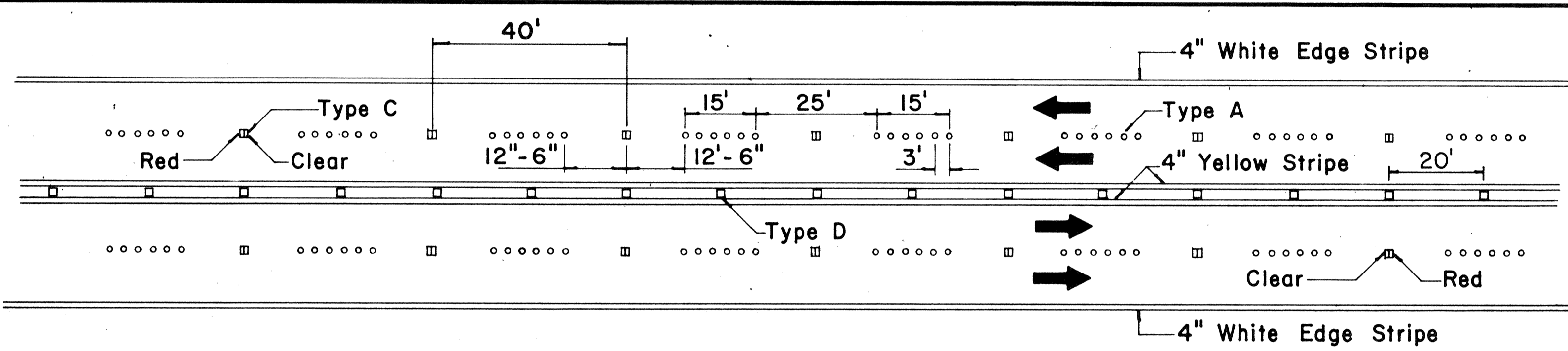
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	HA2-1(12)0	1973	97	171



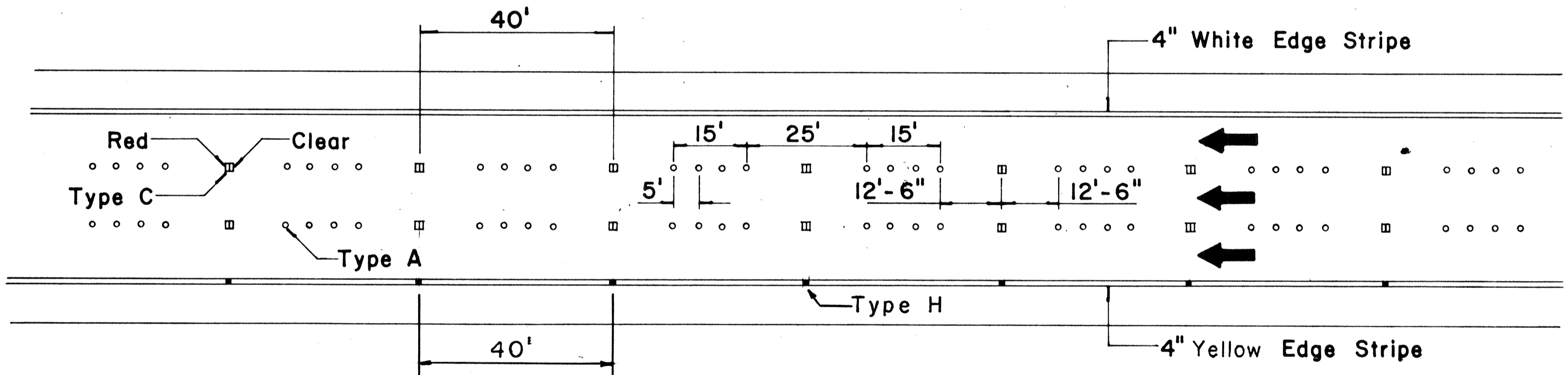
**TWO - LANE  
PASSING PERMITTED AND PASSING PROHIBITED**



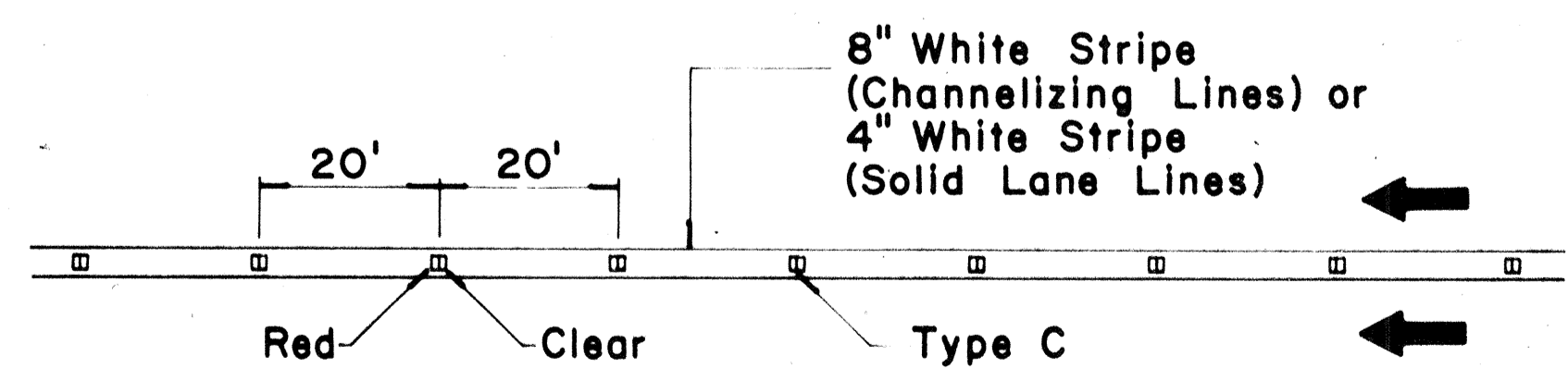
**TWO - LANE  
PASSING PROHIBITED ZONES**



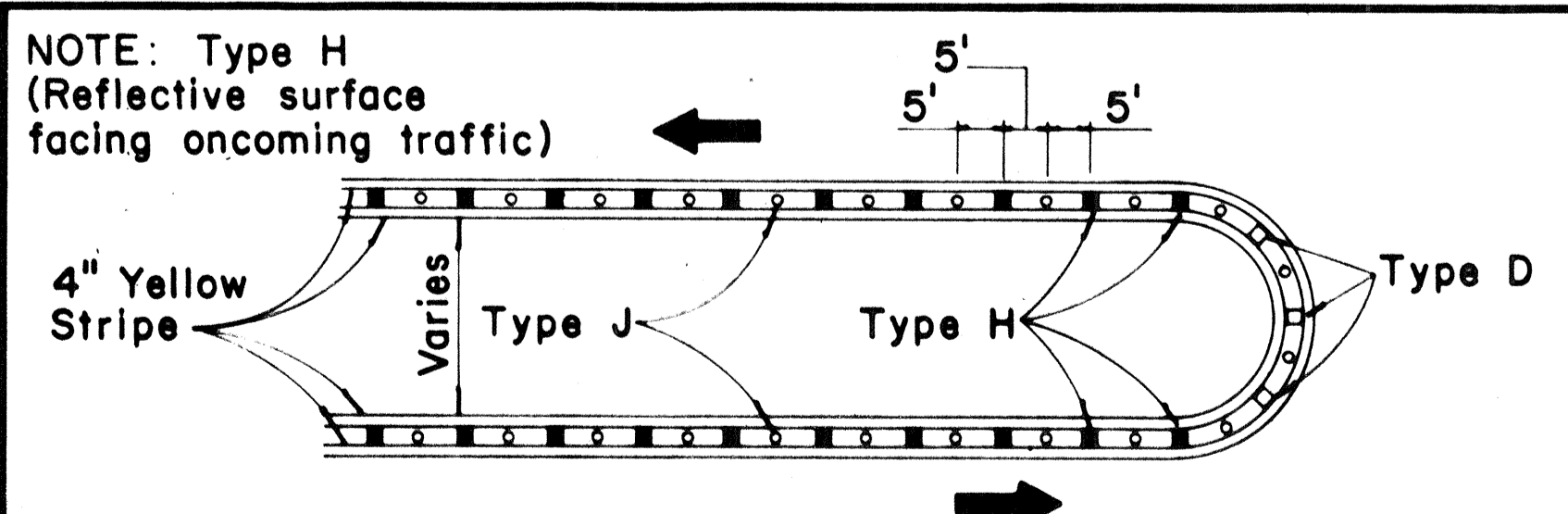
**MULTI - LANE  
LANE LINES AND CENTER LINE**



**FREEWAY LANE LINES**



**CHANNELIZING LINES  
OR SOLID LANE LINES**



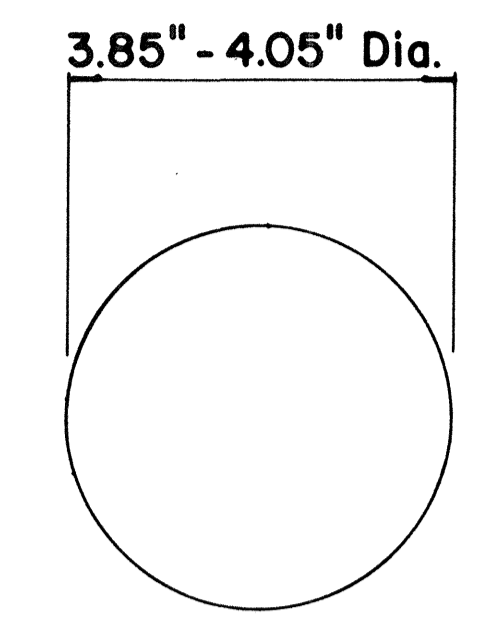
**MEDIAN NOSE DELINEATION**

**TWO - LANE**

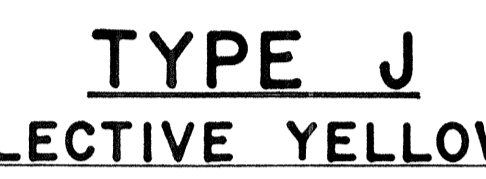
**MULTI - LANE**

**FREEWAY**

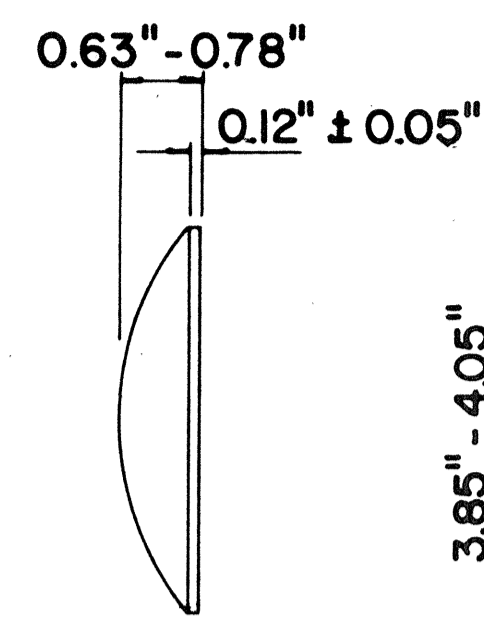
**MISCELLANEOUS**



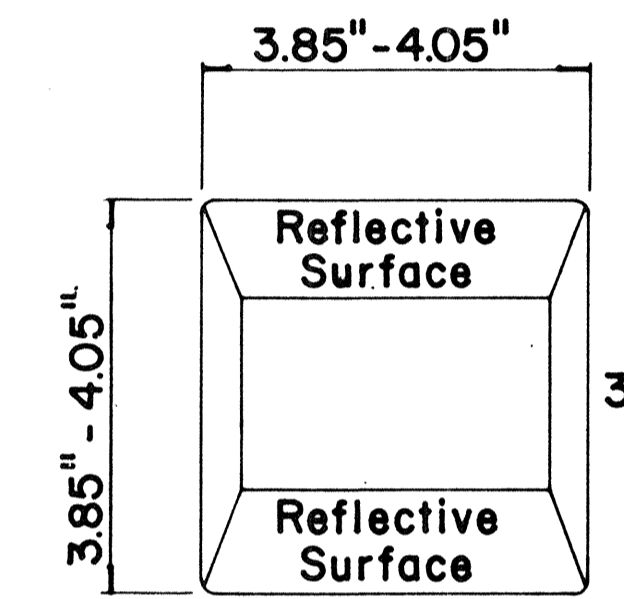
**TYPE A  
NON-REFLECTIVE WHITE MARKER**



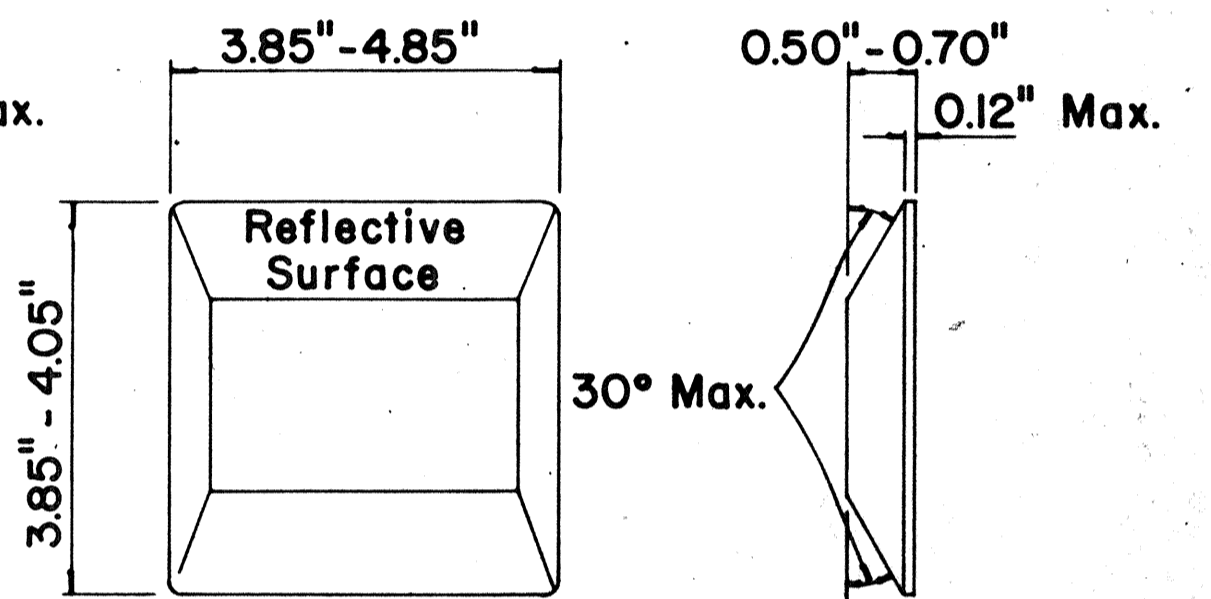
**TYPE J  
NON-REFLECTIVE YELLOW MARKER**



**TYPE C  
RED-CLEAR REFLECTIVE MARKER**



**TYPE D  
TWO-WAY YELLOW REFLECTIVE MARKER**



**TYPE H  
ONE-WAY YELLOW REFLECTIVE MARKER**

**GENERAL NOTES**

1. Painted stripes to be done by Contractor unless otherwise specified.

5/17/73 Added Type "H" Pavement Markers  
DATE REVISION

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**TYPICAL DETAILS  
RAISED PAVEMENT MARKERS**

Not to Scale October 1971

SHEET No. 34 OF 34 SHEETS

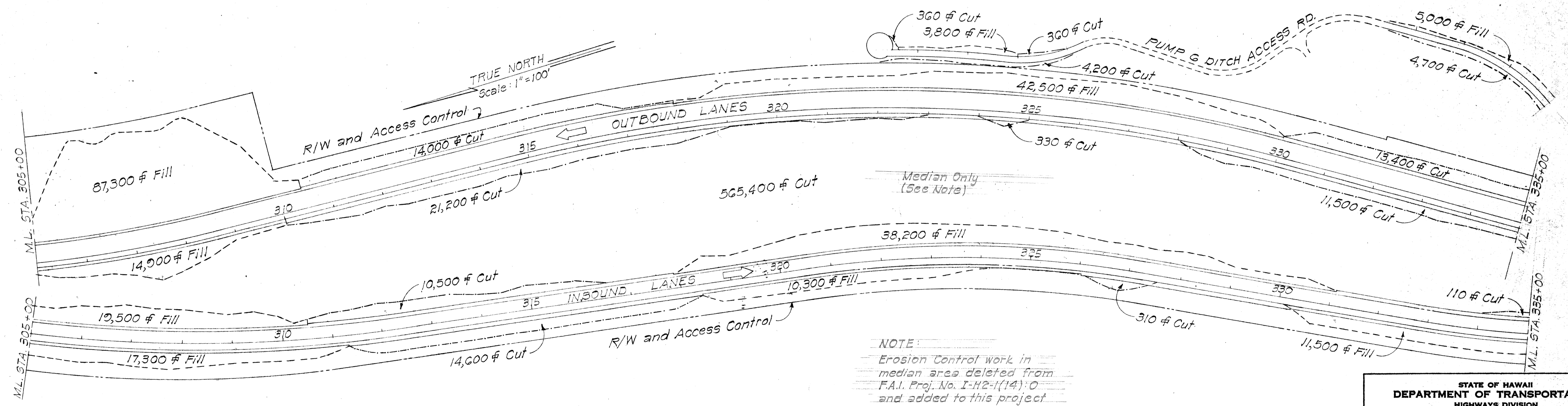
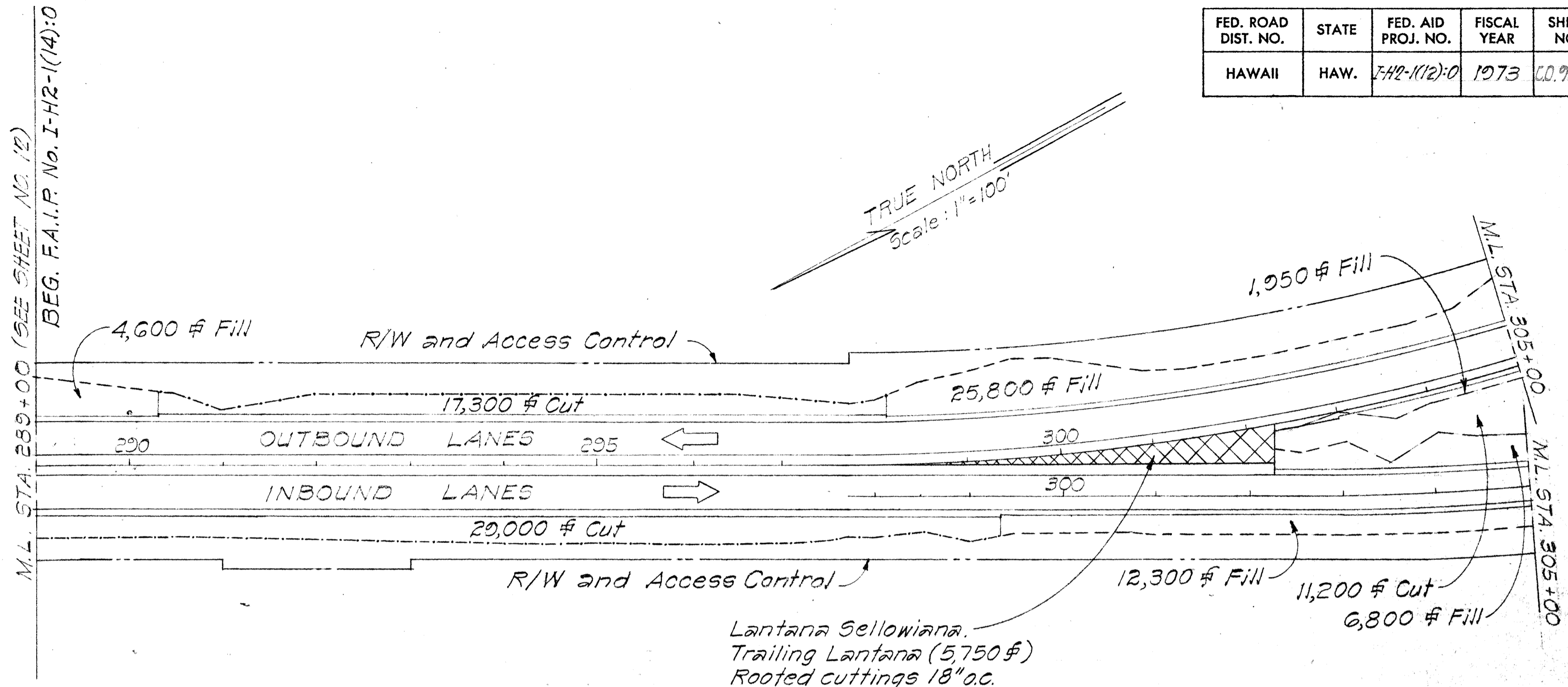
DESIGNED BY  
CHECKED BY  
DATE

ADD. 98

**GENERAL NOTES**

- 1- All fill and cut slopes shall be hydro-mulched (with Bermuda Seed) except where condition does not permit hydro-mulching such as on rock slopes. The Engineer will determine where hydro-mulching is not required.
- 2- Planting on roadside grass shall be as directed by the Engineer.
- 3- All eroded slopes shall be filled and dressed before hydromulching.
- 4- Erosion Control Planting shall not commence until notice 'to proceed' is obtained in writing from the Engineer.
- 5- For additional details, see Section 641 Slope Control Planting of the Special Provisions.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	142-1(12):0	1973	C.O.975-1	171



**NOTE:**  
Erosion Control work in median area deleted from F.A.I. Proj. No. I-H2-1(14):0 and added to this project by C.C.D.12.

DATE	REVISION
4/25/73	Replaced Bermuda Grass with Trailing Lantana ground cover in median area.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**EROSION CONTROL**

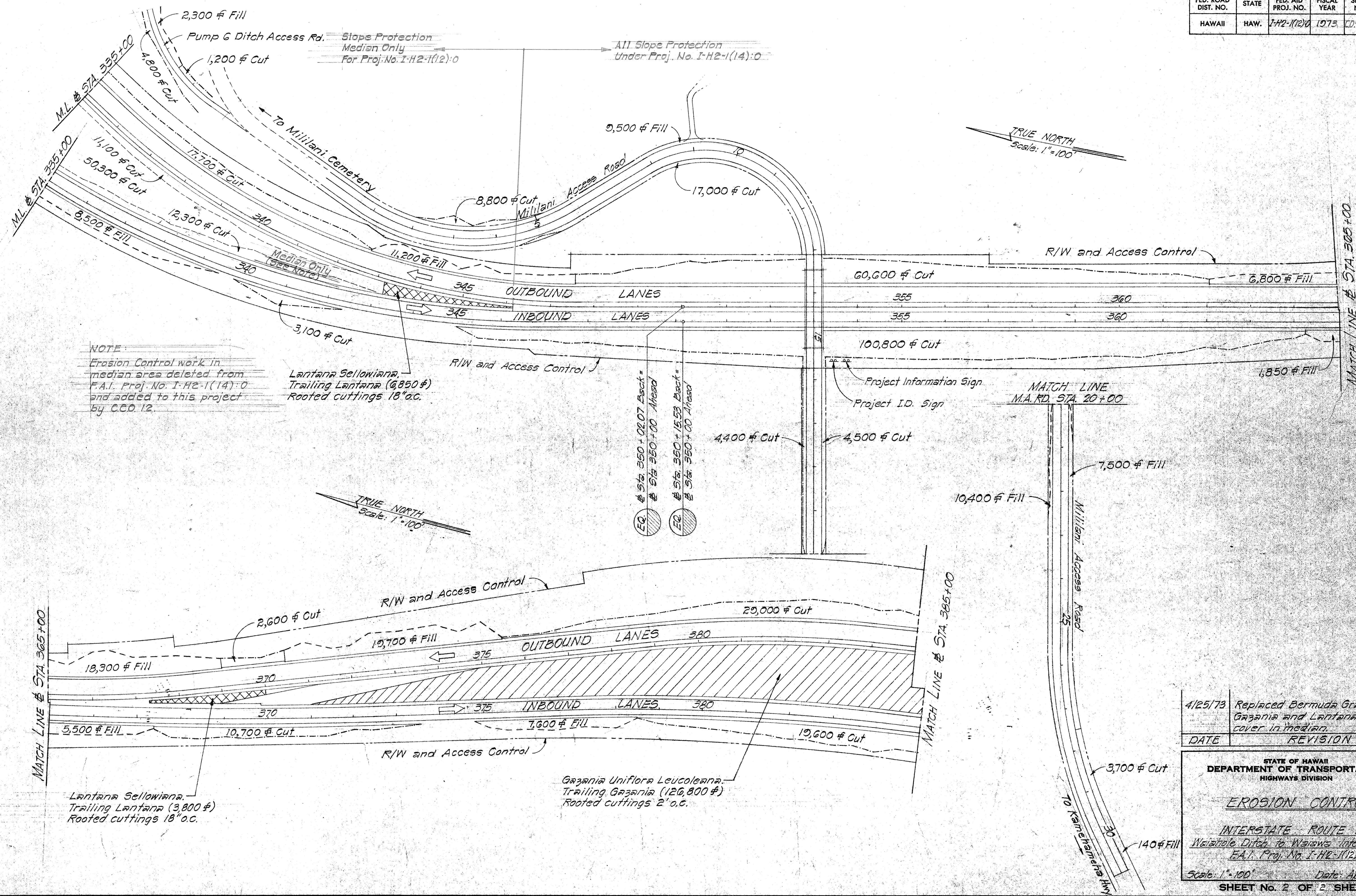
INTERSTATE ROUTE H-2  
Waiahole Ditch to Waiawa I.C.  
F.A.I. Proj. No. I-H2-1(12):0

Scale: 1"=100'      Date: April, 1972

**SHEET No. 1 OF 2 SHEETS**

SURVEY PLOTTED BY	DATE
DESIGNED 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.	I-H2-1(12)0	1975	C0.9752	171



DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NO. BOOK	

DATE	REVISION
4/25/73	Replaced Bermuda Grass with Gazania and Lantana ground cover in median.

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**EROSION CONTROL**

INTERSTATE ROUTE H-2  
Weiaho Ditch to Weiaho Interchange  
E.A.I. Proj. No. I-H2-1(12)0

Scale: 1"=100' Date: April 1972

SHEET No. 2 OF 2 SHEETS