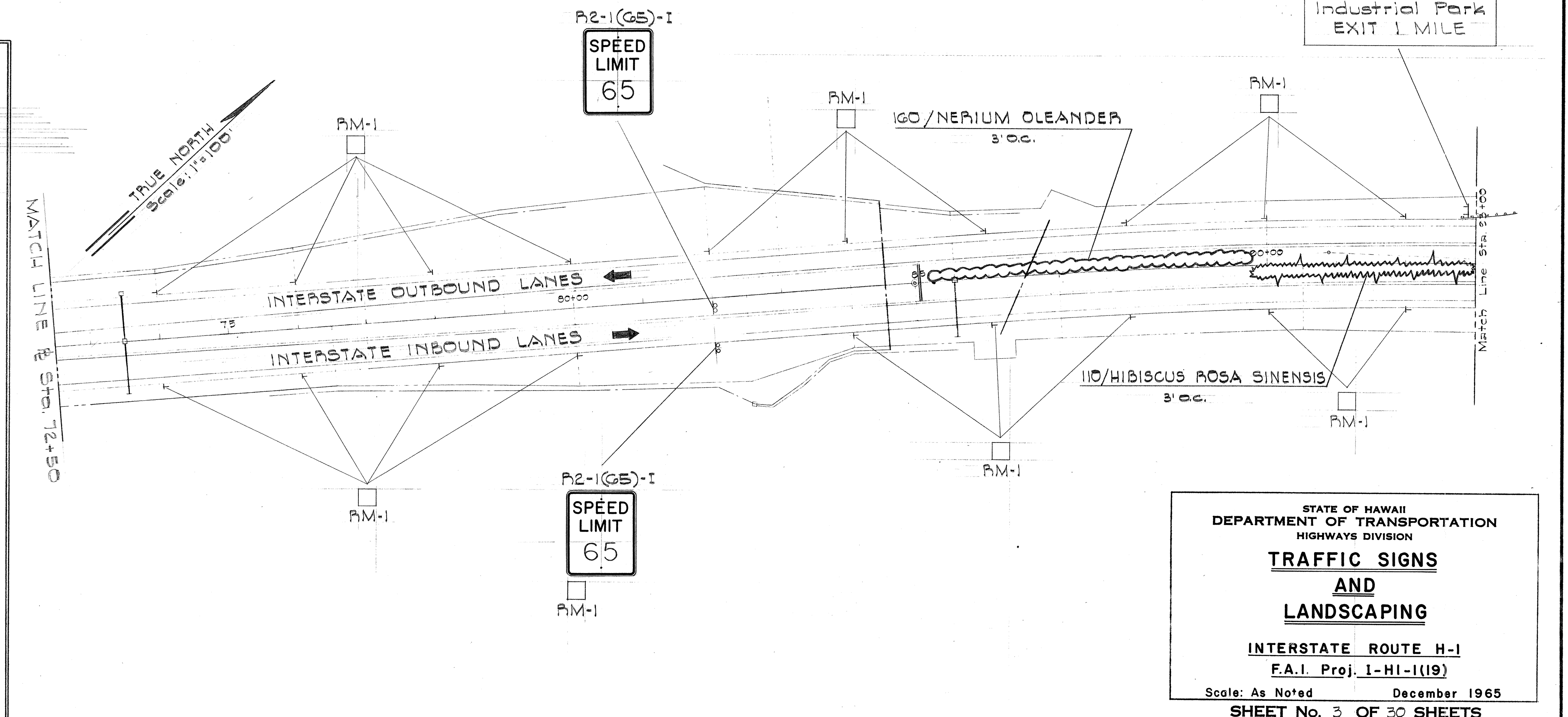
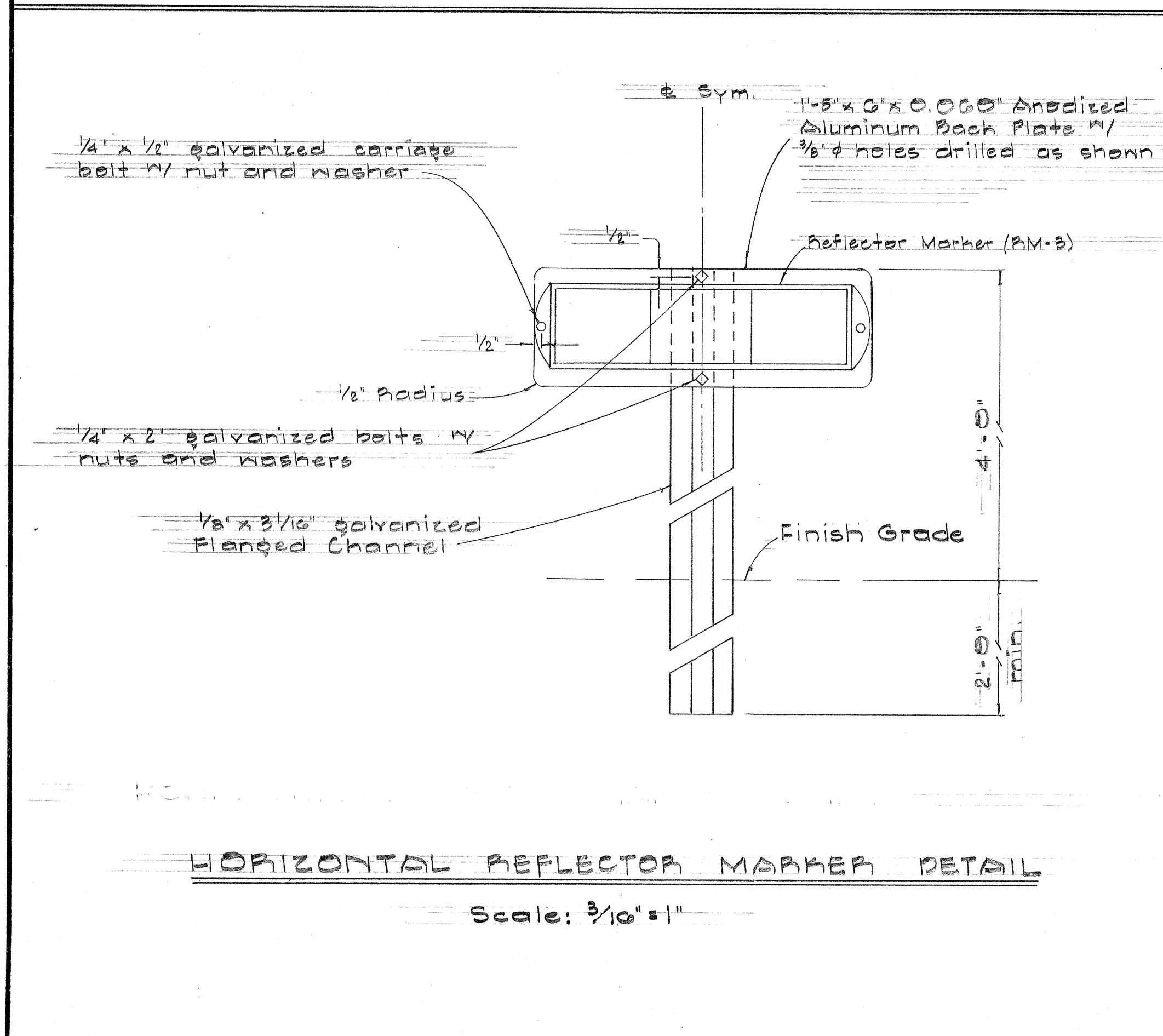
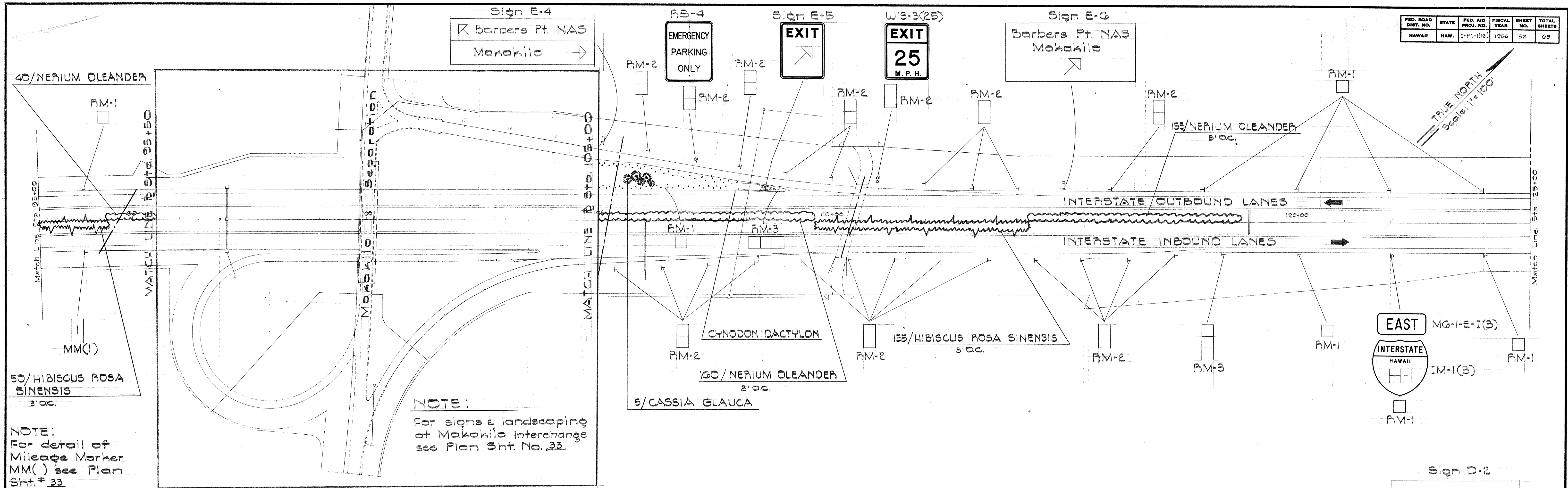


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-HI-1(19)	1966	32	65



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TRAFFIC SIGNS
AND
LANDSCAPING**

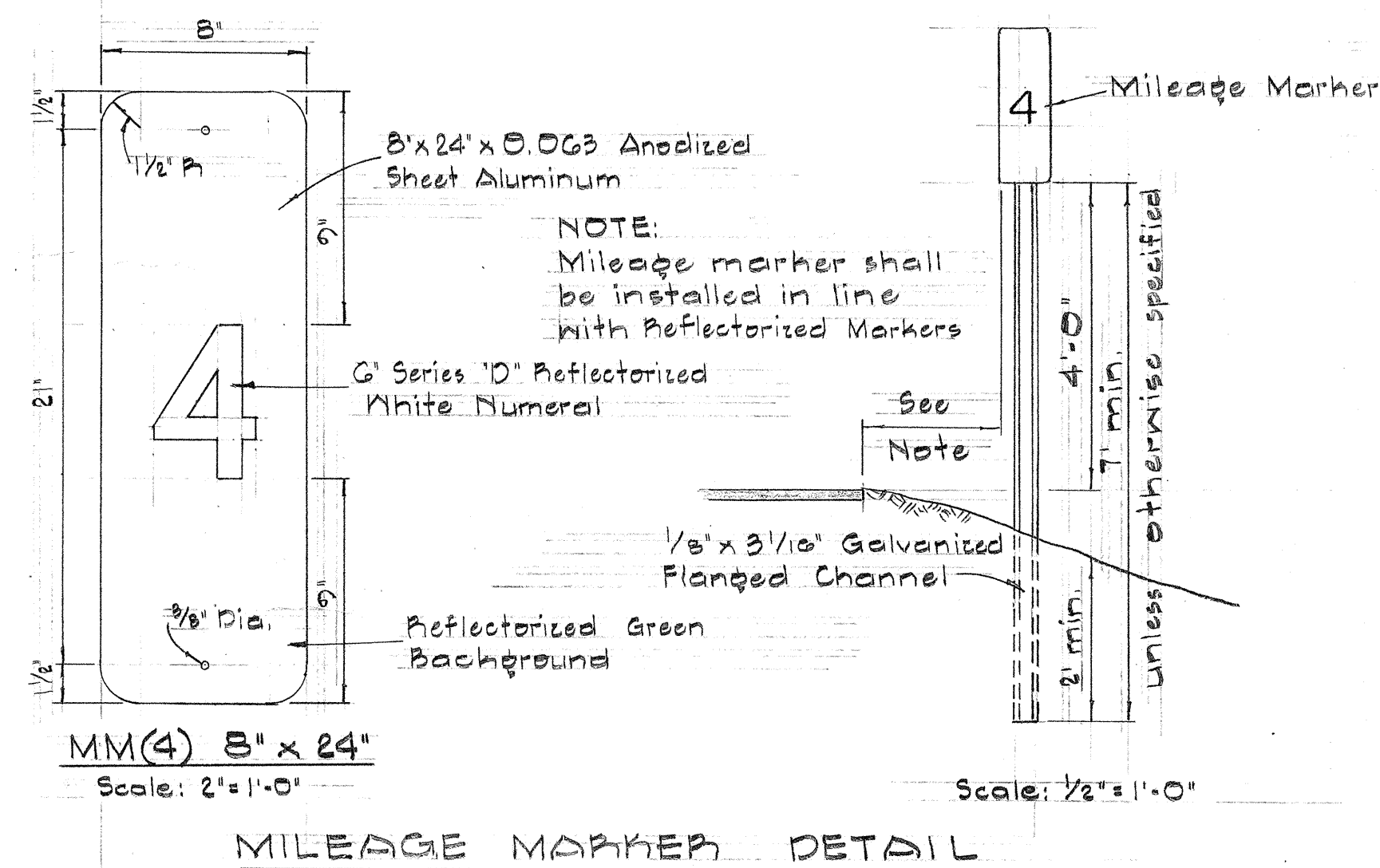
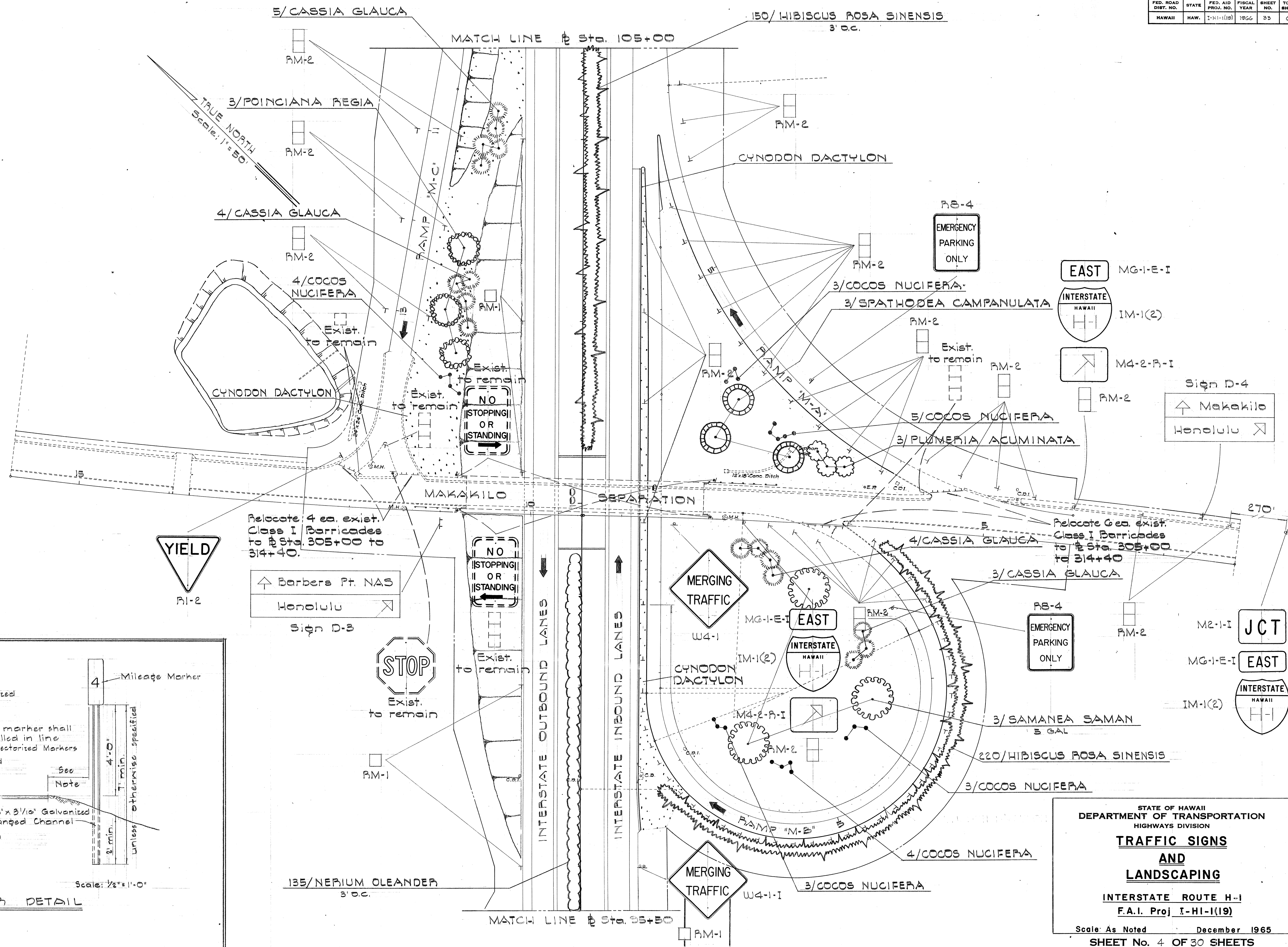
INTERSTATE ROUTE H-1
F.A.I. Proj. 1-HI-1(19)

Scale: As Noted December 1965

SHEET No. 3 OF 30 SHEETS

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

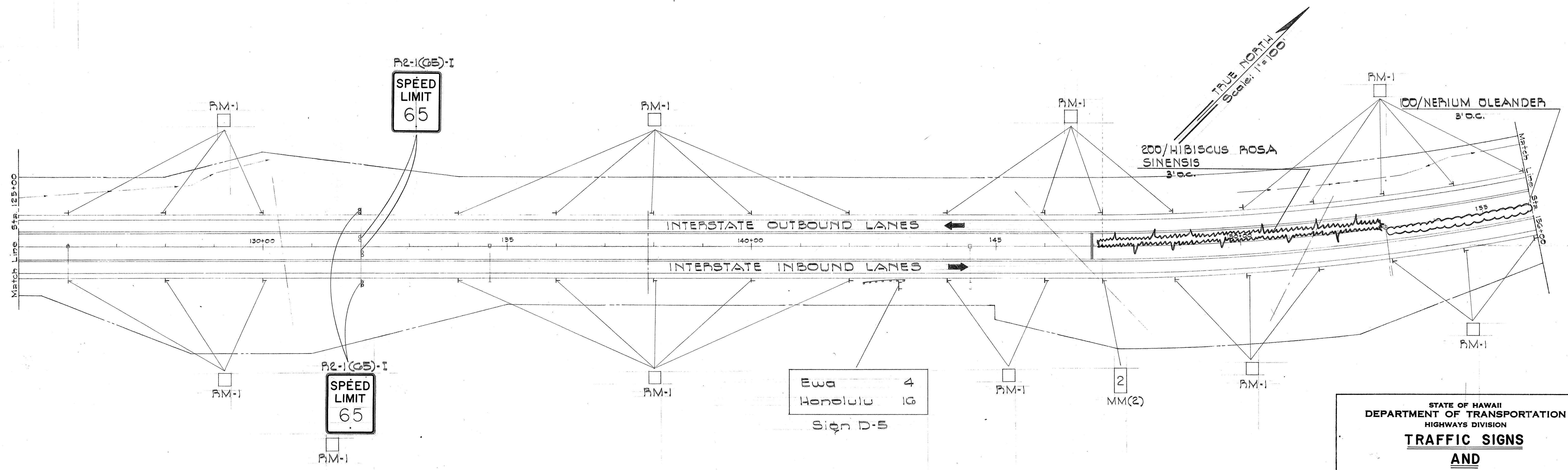
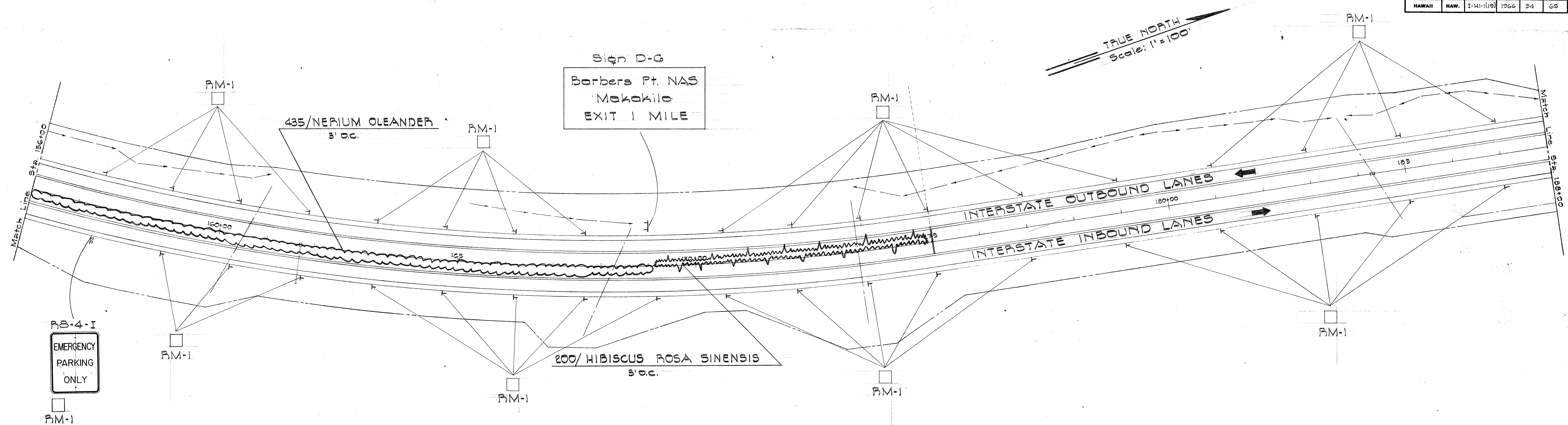
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(19)	1966	33	65



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
**TRAFFIC SIGNS
AND
LANDSCAPING**
INTERSTATE ROUTE H-1
F.A.I. Proj I-HI-1(19)
Scale: As Noted December 1965
SHEET No. 4 OF 30 SHEETS

SURVEYED BY	DATE
DRAWN BY	
DESIGNED BY	
NOTED BY	
CHECKED BY	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H-1(19)	1966	34	65



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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

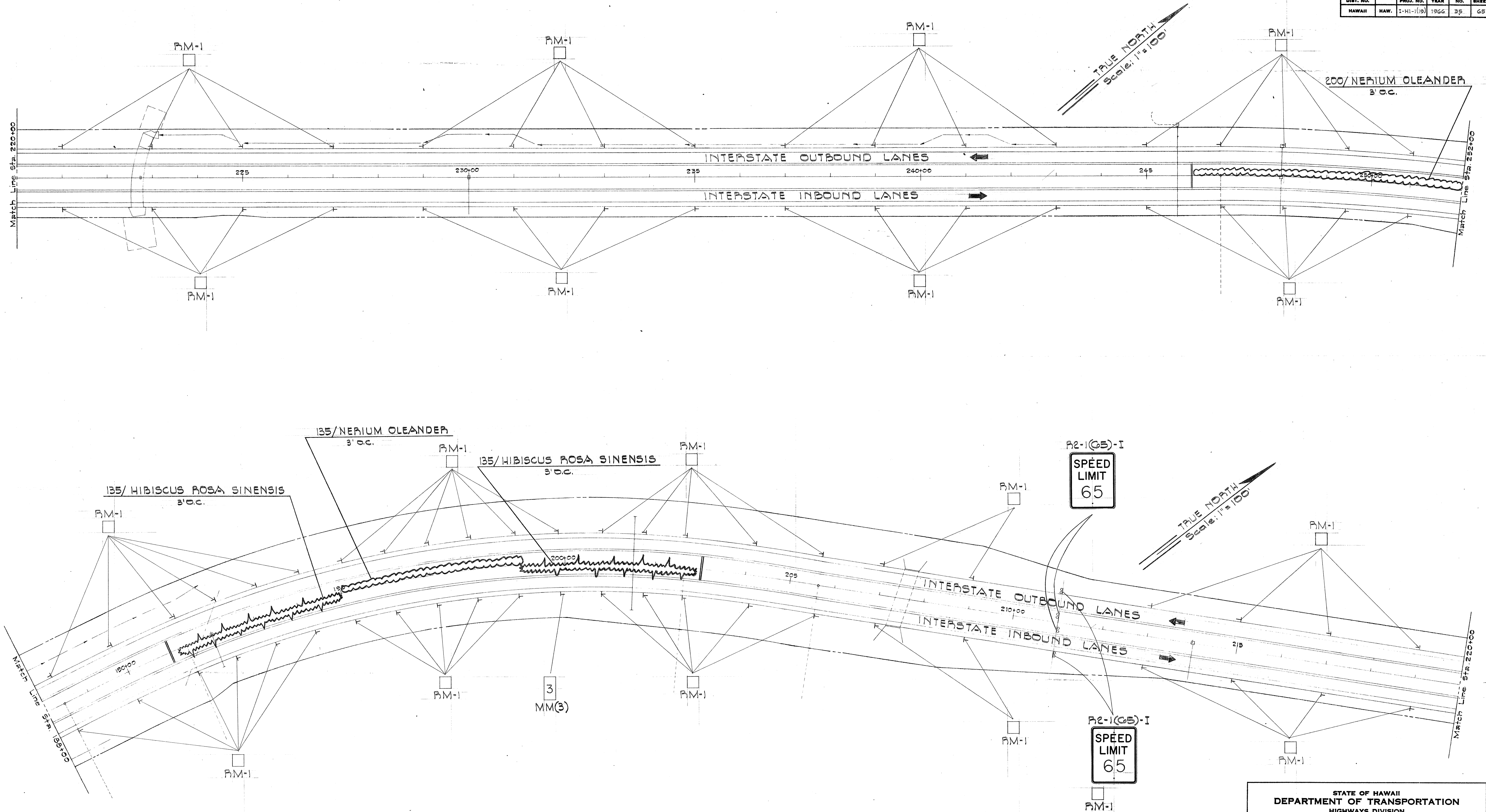
**TRAFFIC SIGNS
AND
LANDSCAPING**

INTERSTATE ROUTE H-1
F.A.I. Proj. I-H-1(19)

Scale: 1" = 100' December 1965

SHEET No. 5 OF 30 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(19)	1966	35	65



ORIGINAL PLAN	DATE
DESIGNED BY	DESIGNED BY
NOTED BY	NOTED BY
CHECKED BY	CHECKED BY
NO.	NO.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**TRAFFIC SIGNS
AND
LANDSCAPING**

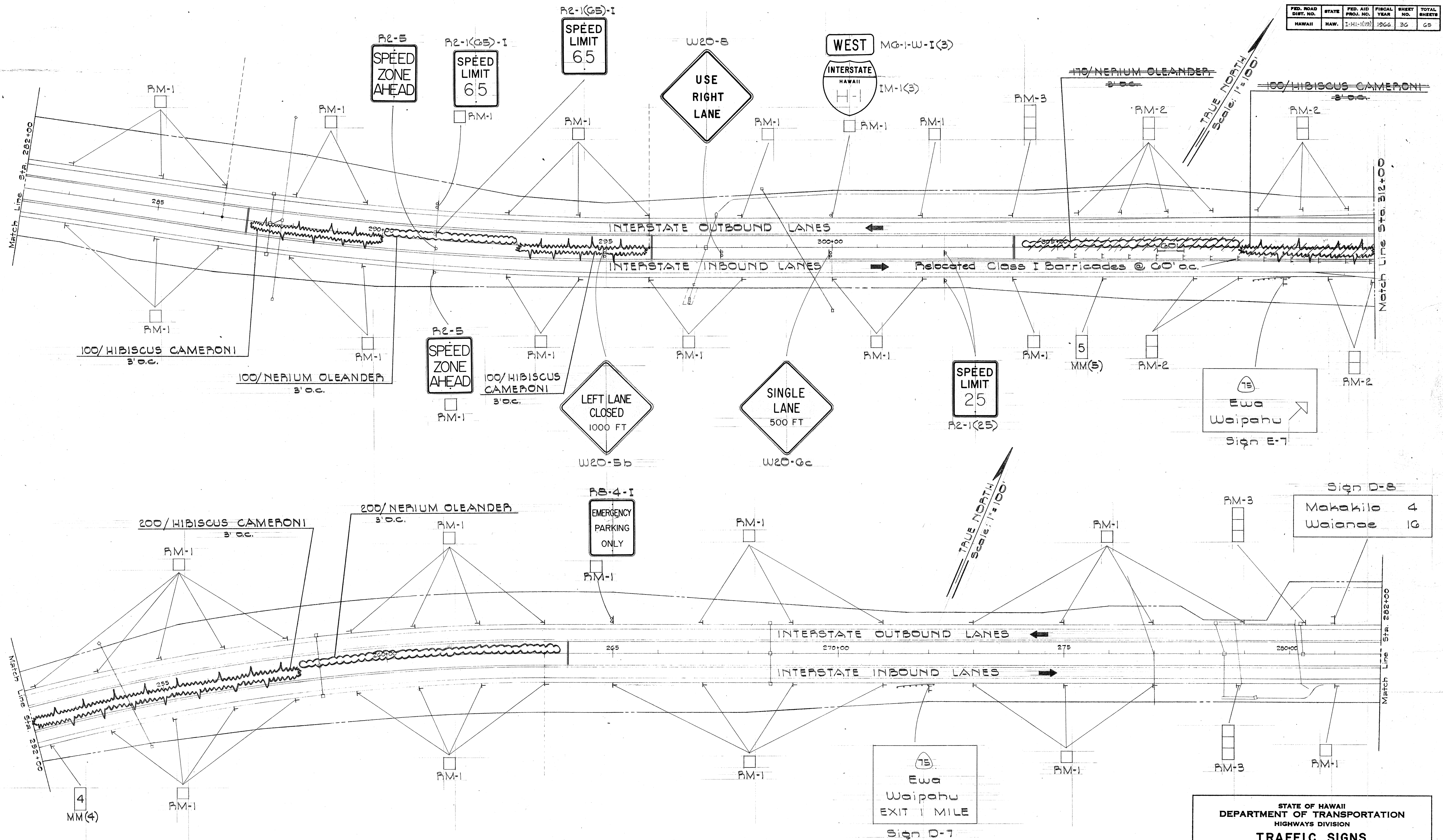
INTERSTATE ROUTE H-1
F.A.I. Proj I-HI-1(19)

Scale: 1" = 100' December 1965

SHEET No. 6 OF 30 SHEETS

35

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-HI-1(19)	1966	36	65



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

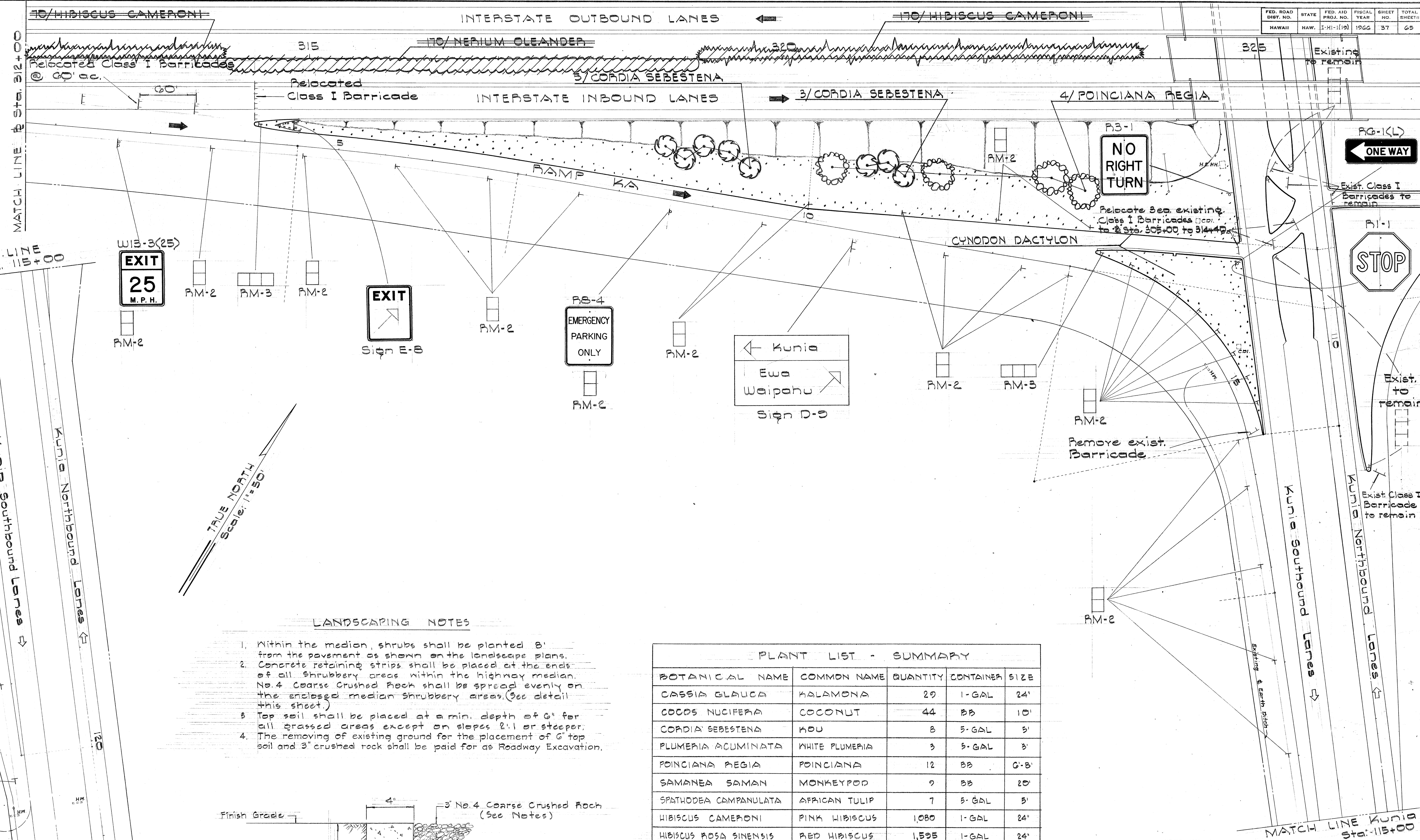
**TRAFFIC SIGNS
AND
LANDSCAPING**

INTERSTATE ROUTE H-1
F.A.I. Proj I-HI-1(19)

Scale: 1" = 100' December 1965

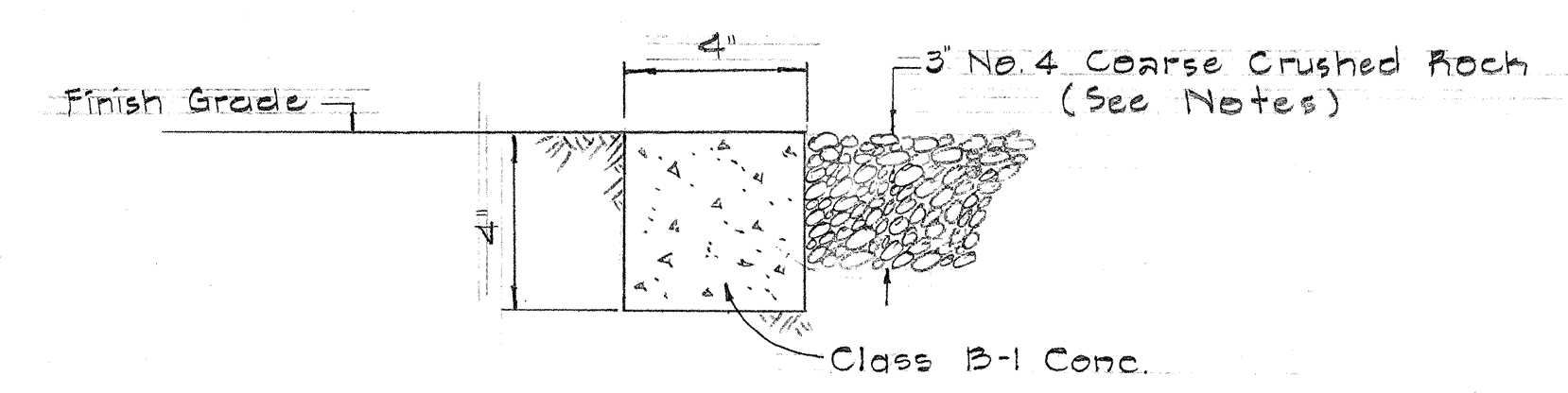
SHEET No. 7 OF 30 SHEETS

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



LANDSCAPING NOTES

1. Within the median, shrubs shall be planted 8' from the pavement as shown on the landscape plans.
2. Concrete retaining strips shall be placed at the ends of all shrubbery areas within the highway median. No. 4 Coarse Crushed Rock shall be spread evenly on the enclosed median shrubbery areas. (See detail this sheet.)
3. Top soil shall be placed at a min. depth of 6" for all grassed areas except on slopes 2:1 or steeper.
4. The removing of existing ground for the placement of 6" top soil and 3" crushed rock shall be paid for as Roadway Excavation.



CONCRETE RETAINING STRIP DETAIL
Scale 3"=1'-0"

PLANT LIST - SUMMARY				
BOTANICAL NAME	COMMON NAME	QUANTITY	CONTAINER	SIZE
CASSIA GLAUCA	KALAMONA	29	1-GAL	24"
COCOS NUCIFERA	COCONUT	44	BB	10'
CORDIA SEBESTENA	KOU	8	5-GAL	5'
PLUMERIA ACUMINATA	WHITE PLUMERIA	3	5-GAL	3'
POINCIANA REGIA	POINCIANA	12	BB	6'-8"
SAManea SAMAN	MONKEYPOD	9	BB	20'
SPATHODEA CAMPANULATA	AFRICAN TULIP	7	5-GAL	5'
HIBISCUS CAMERONI	PINK HIBISCUS	1,080	1-GAL	24"
HIBISCUS ROSA SINENSIS	RED HIBISCUS	1,595	1-GAL	24"
NERIUM OLEANDER	OLEANDER	2,655	1-GAL	24"
CYNODON DACTYLON	BERMUDA GRASS	452,000 sf.		

DATE: _____
 SURVEY PLOTTED BY: _____
 DRAWN BY: _____
 DESIGNED BY: _____
 NOTE BOOK: _____
 CHECKED BY: _____

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

**TRAFFIC SIGNS
 AND
 LANDSCAPING**

INTERSTATE ROUTE H-1
 F.A.I. Proj. 1-H-1(19)

Scale: As Noted December 1965
 SHEET No. 8 OF 30 SHEETS

TRAFFIC SIGN SUMMARY

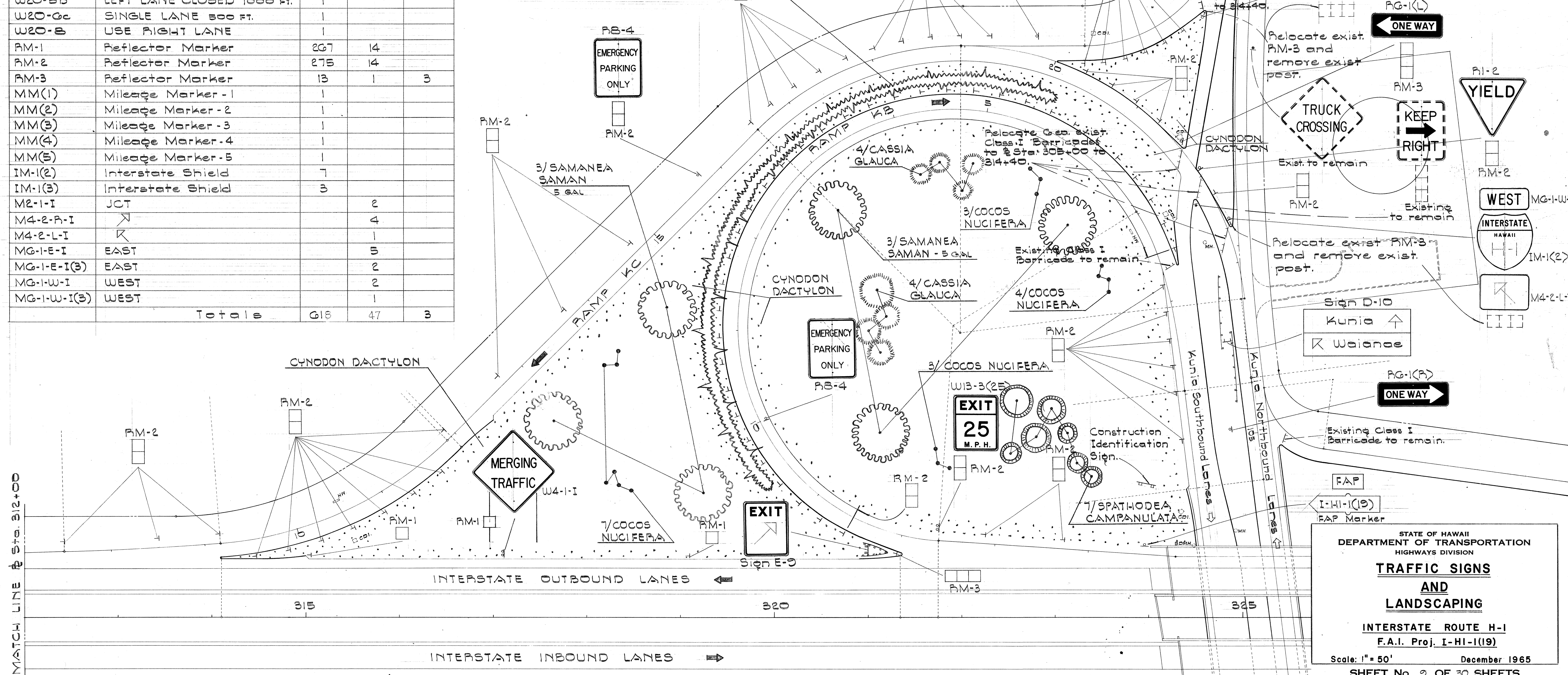
Type	Description	Quantity		
		W/Post	W/O Post	Relocated
R1-1	STOP	1		
R1-2	YIELD	3		
R2-1(25)	SPEED LIMIT 25	2		
R2-1(65)-I	SPEED LIMIT 65	12		
R2-3	SPEED ZONE AHEAD	2		
R3-1	NO RIGHT TURN	1		
R3-3	DO NOT ENTER	1		
R5-1	DO NOT ENTER	2		
RG-1(R)	ONE WAY	1		
RG-1(L)	ONE WAY	1	1	
RS-4	EMERGENCY PARKING ONLY	3		
RS-4-I	EMERGENCY PARKING ONLY	2		
W4-1	MERGING TRAFFIC	2		
W4-1-I	MERGING TRAFFIC	2		
W13-3(25)	EXIT 25 MPH	4		
W20-5b	LEFT LANE CLOSED 1000 FT.	1		
W20-6c	SINGLE LANE 500 FT.	1		
W20-8	USE RIGHT LANE	1		
RM-1	Reflector Marker	267	14	
RM-2	Reflector Marker	275	14	
RM-3	Reflector Marker	13	1	3
MM(1)	Mileage Marker - 1	1		
MM(2)	Mileage Marker - 2	1		
MM(3)	Mileage Marker - 3	1		
MM(4)	Mileage Marker - 4	1		
MM(5)	Mileage Marker - 5	1		
IM-1(2)	Interstate Shield	7		
IM-1(3)	Interstate Shield	3		
M2-1-I	JCT		2	
M4-2-R-I			4	
M4-2-L-I			1	
MG-1-E-I	EAST		5	
MG-1-E-I(3)	EAST		2	
MG-1-W-I	WEST		2	
MG-1-W-I(3)	WEST		1	
Totals		618	47	3

BARRICADE SUMMARY

Type	Quantity	
	Relocate	Remove
Class I Barricade	10	3
Class II Barricade		1

GENERAL NOTES:

- Exact location of signs to be determined in the field by the Engineer.
- Existing signs & barricades not incorporated into the new traffic layout shall be removed unless otherwise noted. All costs shall be considered incidental to the various items for the installation of signs.
- Cost of relocating & removing existing barricades shall be considered incidental to the various contract items.



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-HI-1(19)	1966	38	65

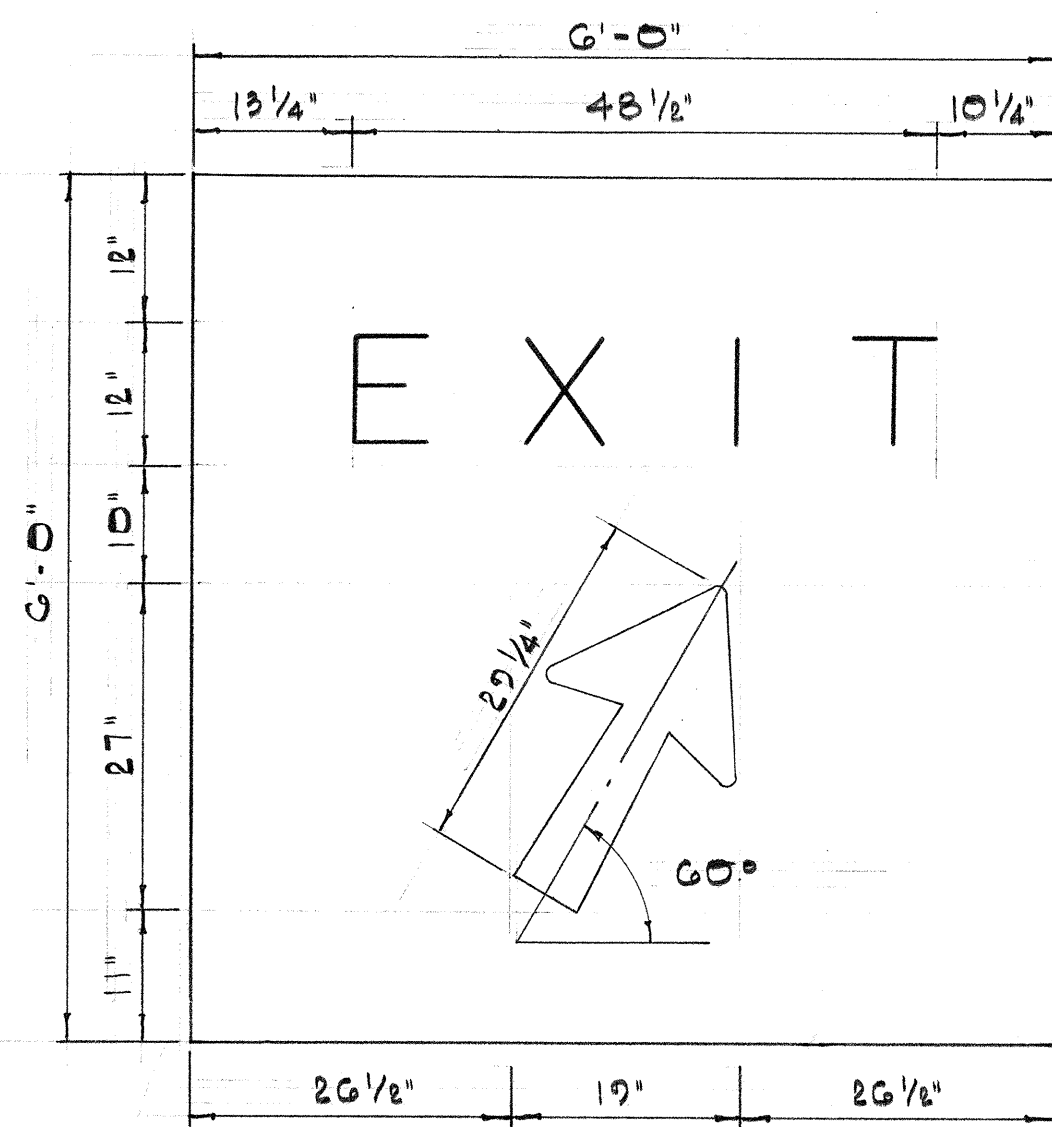
ORIGINAL PLAN
DESIGNED BY
NOTED BOOK
QUANTITIES BY
CHECKED BY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

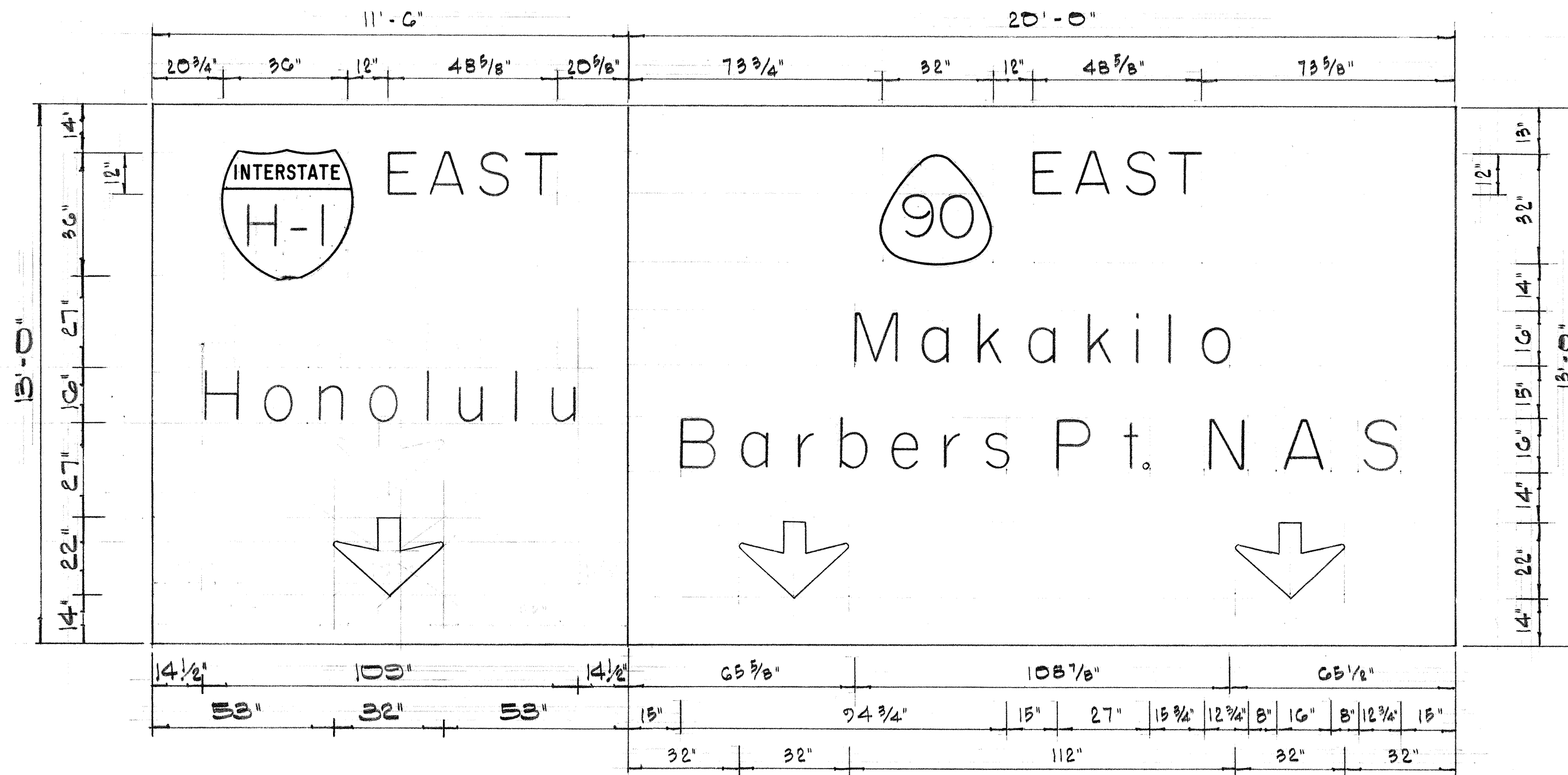
**TRAFFIC SIGNS
AND
LANDSCAPING**

INTERSTATE ROUTE H-1
F.A.I. Proj. I-HI-1(19)

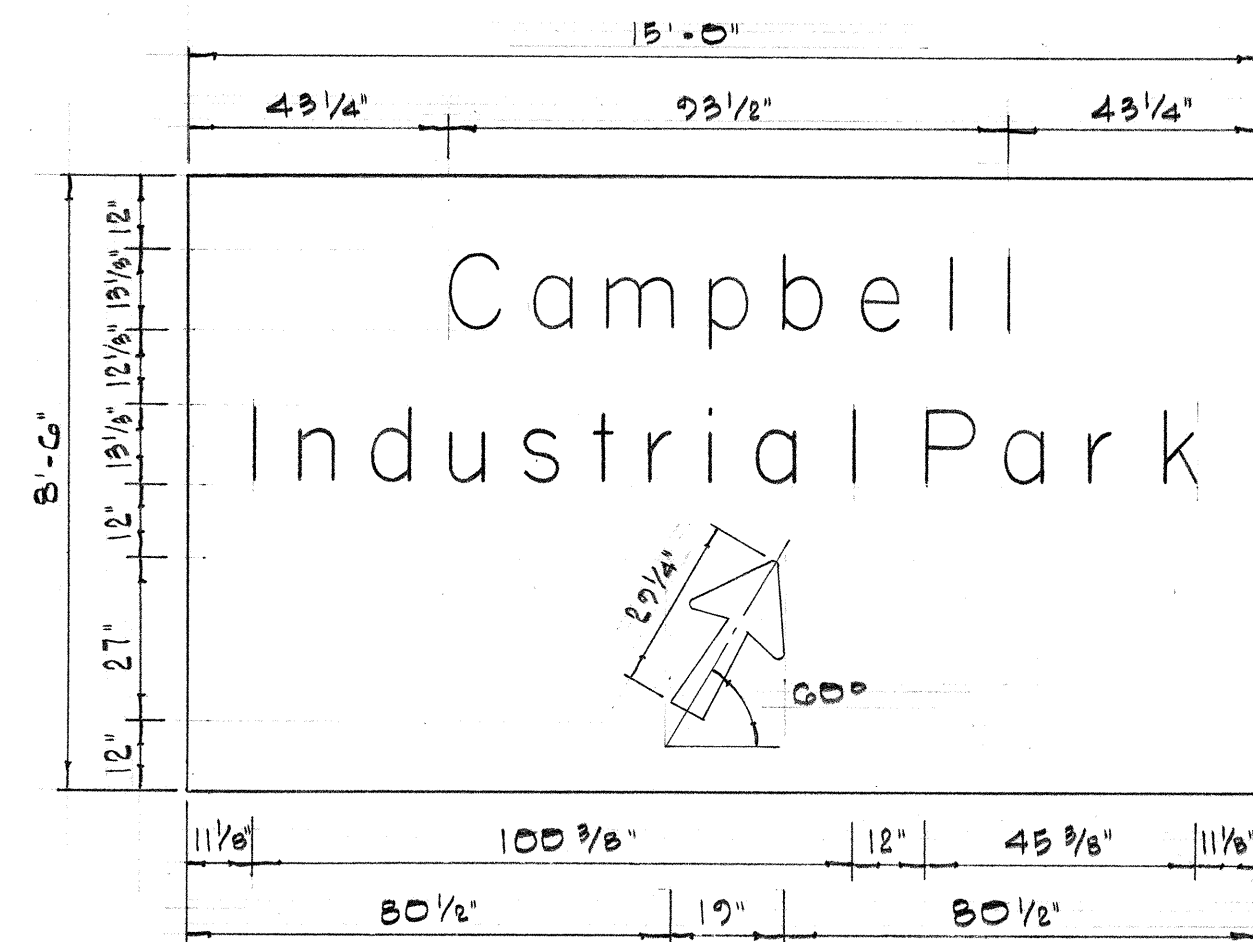
Scale: 1" = 50' December 1965
SHEET No. 9 OF 30 SHEETS



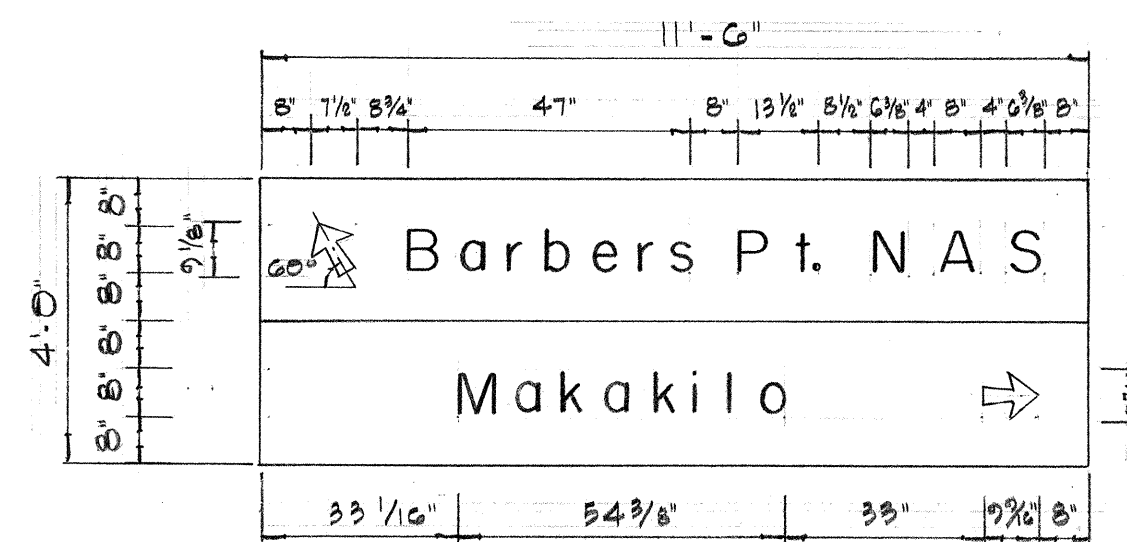
SIGN E-1, E-5, E-8, E-9



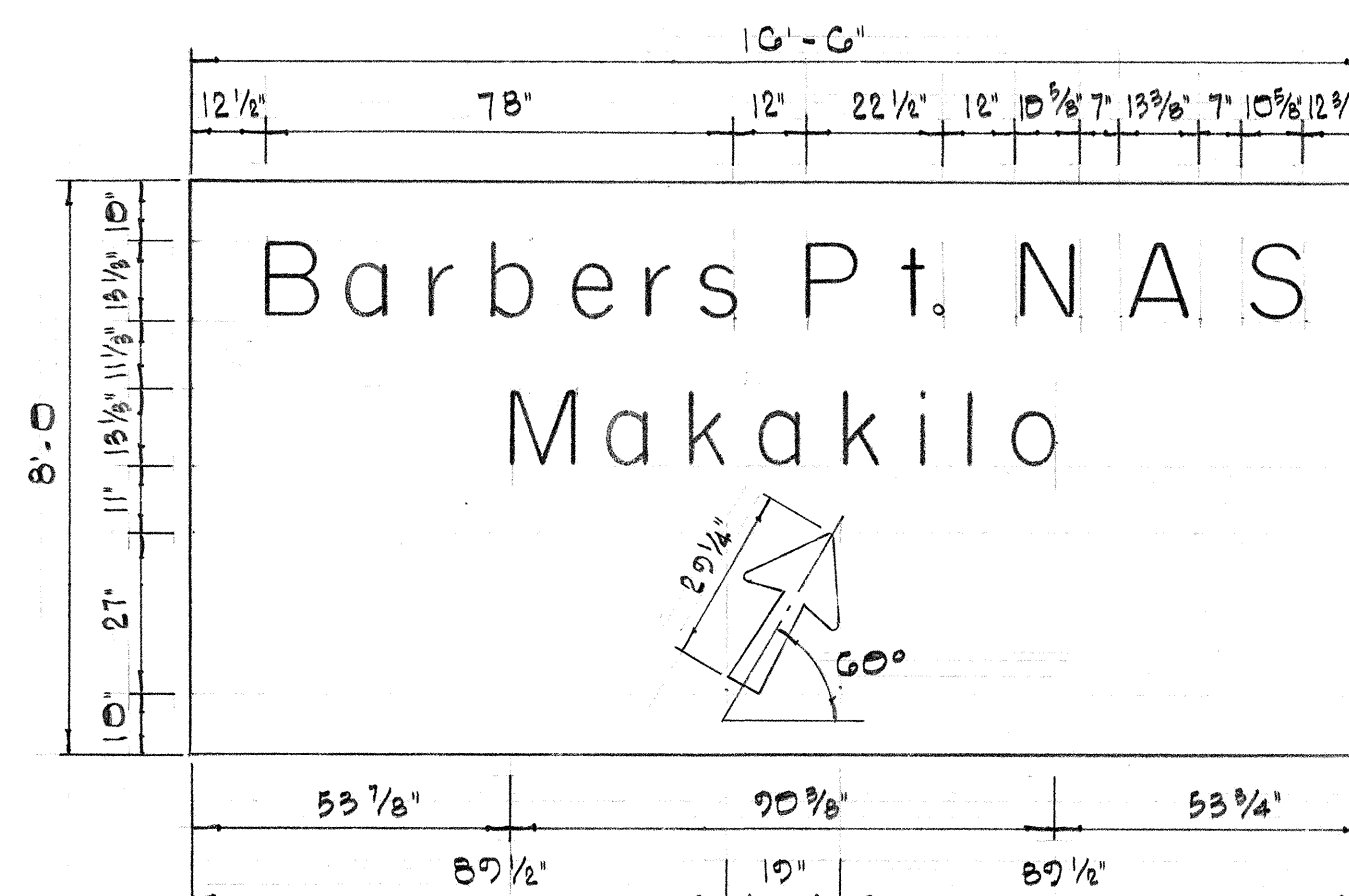
SIGN E-3



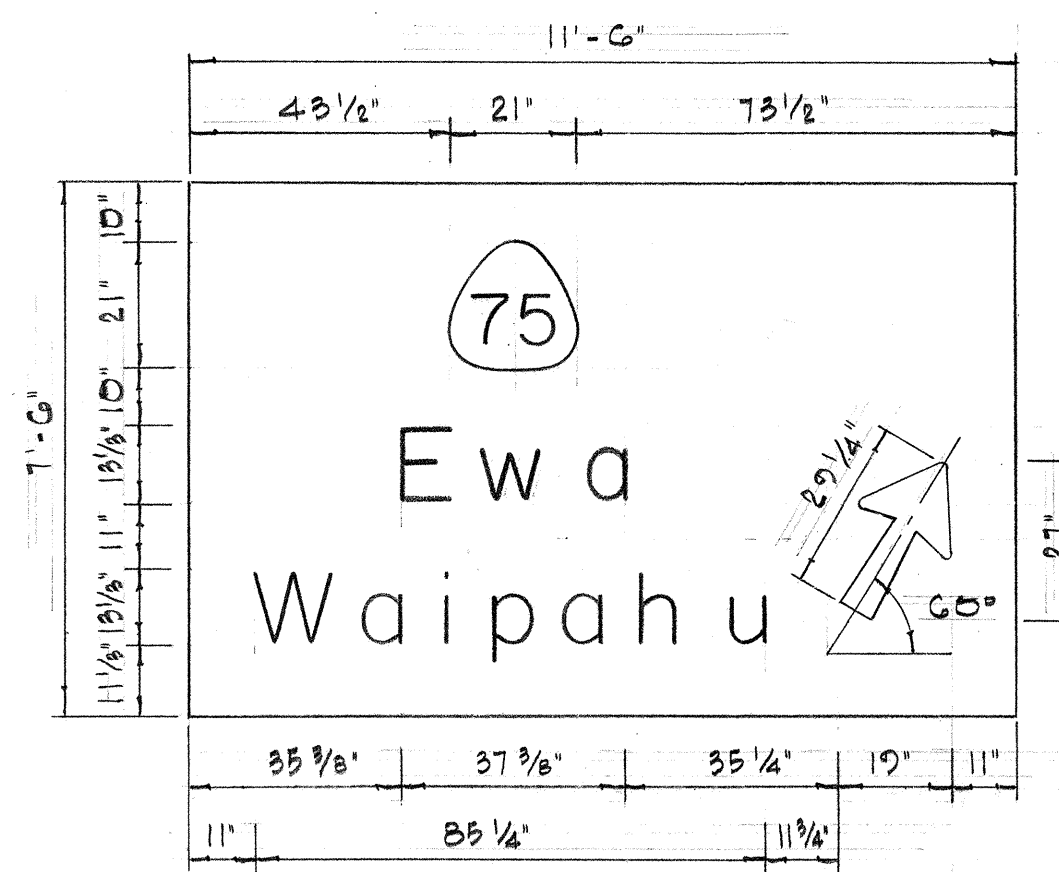
SIGN E-2



SIGN E-4



SIGN E-6



SIGN E-7

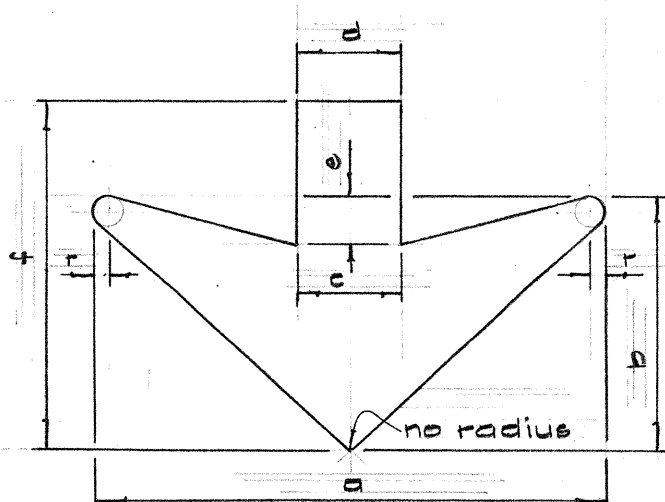
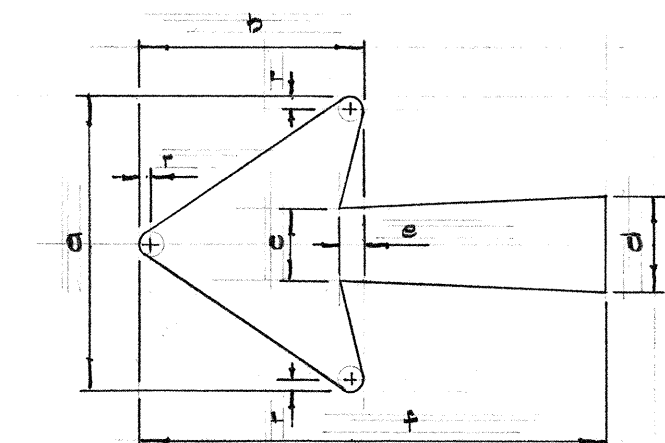
SUMMARY OF EXPRESSWAY SIGNS		
Sign No.	Message	Area (sq. ft.)
E-1	EXIT	36.00
E-2	Campbell Industrial Park	127.50
E-3(L)	Honolulu	149.50
E-3(R)	Makakilo, Barbers Pt. NAS	260.00
E-4	Barbers Pt. NAS - Makakilo	46.00
E-5	EXIT	36.00
E-6	Barbers Pt. NAS, Makakilo	132.00
E-7	Ewa, Waipahu	86.25
E-8	EXIT	36.00
E-9	EXIT	36.00
TOTAL		945.25

GENERAL NOTES

1. Sign message shall be lettered in upper case according to "Standard Alphabets for Highway Signs," Bureau of Public Roads, 1952, 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 shall conform with details as shown on plans. (See Detail this sheet.)
3. All borders and State Route Markers shall conform with details as shown on plans.
4. Letters, numerals, symbols and borders shall be reflectorized cut-outs or demountable copies.
5. All reflectorized cut-outs and demountable copies shall be fastened on sign panel with blind rivets. See Special Provisions.
6. Destination signs shall use reflectorized cut-outs.

Arrow Size	Arrow Dimension in Inches						
	a	b	c	d	e	f	r
8 7/16" x 27 1/16"	8 7/16	5 7/16	2 3/16	2 13/16	3/8	27 1/16	1/2
11 1/4" x 18 1/4"	11 1/4	8 3/4	3 3/8	3 7/8	7/8	18 1/4	5/8
15 1/4" x 27 1/4"	15 1/4	14	4 1/2	6	1 1/2	27 1/4	3/4
32" x 22"	32	16	6 1/2	6 1/2	3"	22	1"

TYPICAL ARROW DETAILS



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EXPRESSWAY SIGNS PANEL LAYOUT

INTERSTATE ROUTE H-1
F.A.I. Proj. I-HI-1(19)

Not to Scale December 1965

SHEET No. 10 OF 30 SHEETS

SURVEY PLOTTED BY: _____ DATE: _____
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-HI-1(19)	1966	40	65

NOTE:
For Arrow Details See Sheet No. 39

SUMMARY OF DESTINATION SIGNS		
Sign No.	Message	Area(sq. ft.)
D-1	Campbell Industrial Park	105.00
D-2	Campbell Industrial Park	112.50
D-3	Barbers Pt. NAS	46.00
D-4	Makakilo - Honolulu	30.00
D-5	Ewa Honolulu	68.75
D-6	Barbers Pt. NAS, Makakilo	123.75
D-7	Ewa, Waipahu	95.00
D-8	Makakilo Waianae	63.25
D-9	Kunia - Ewa, Waipahu	44.00
D-10	Kunia - Waianae	28.00
D-11	Honolulu, Ewa - Waianae	41.25
TOTAL		757.50

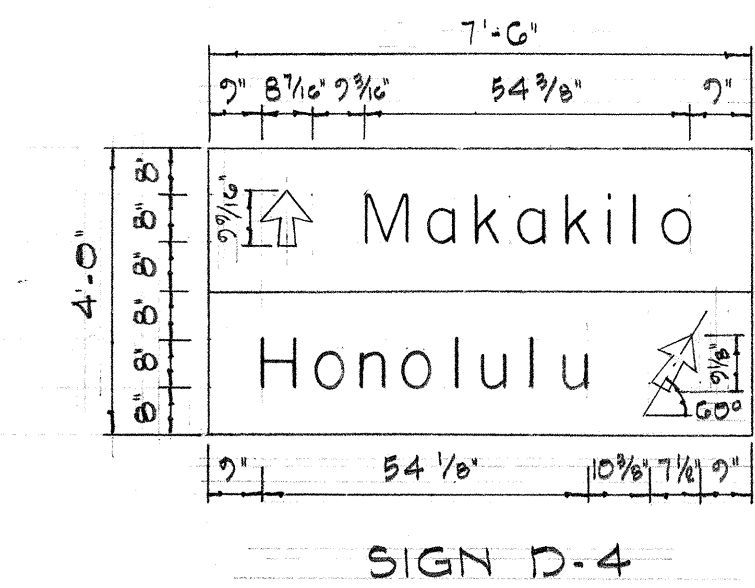
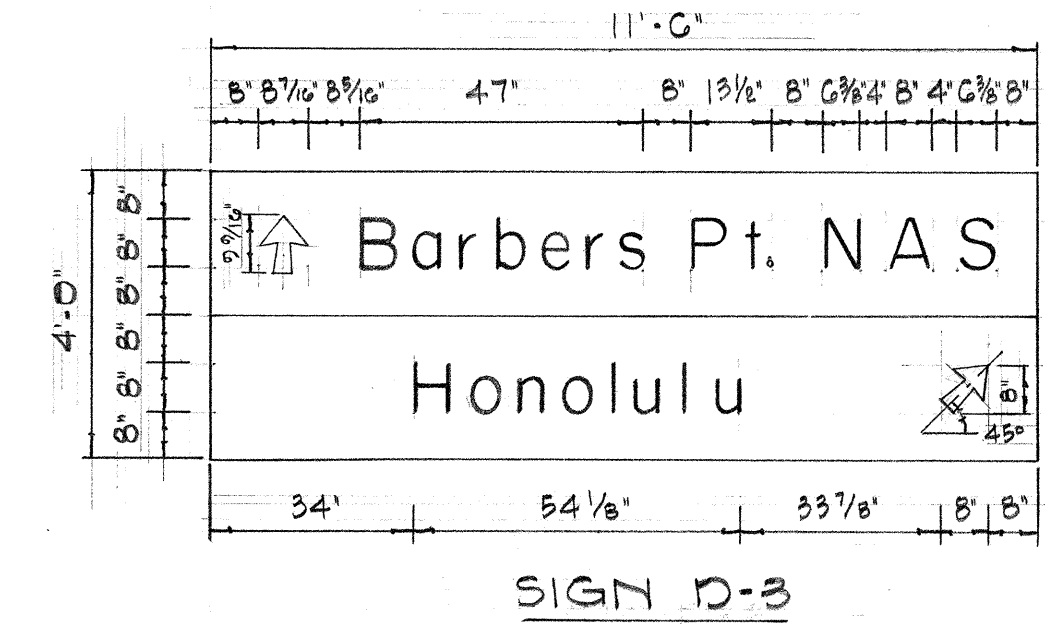
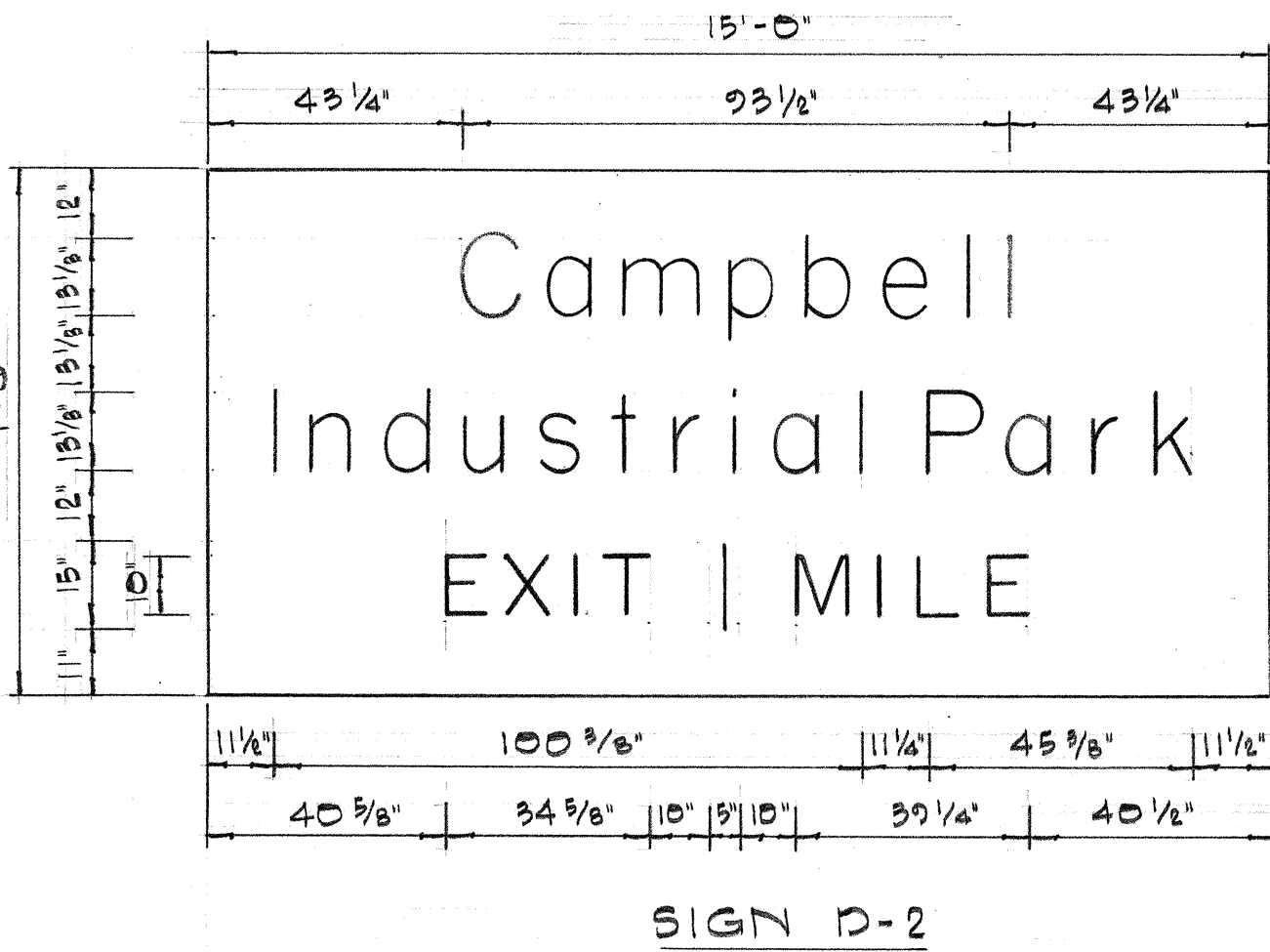
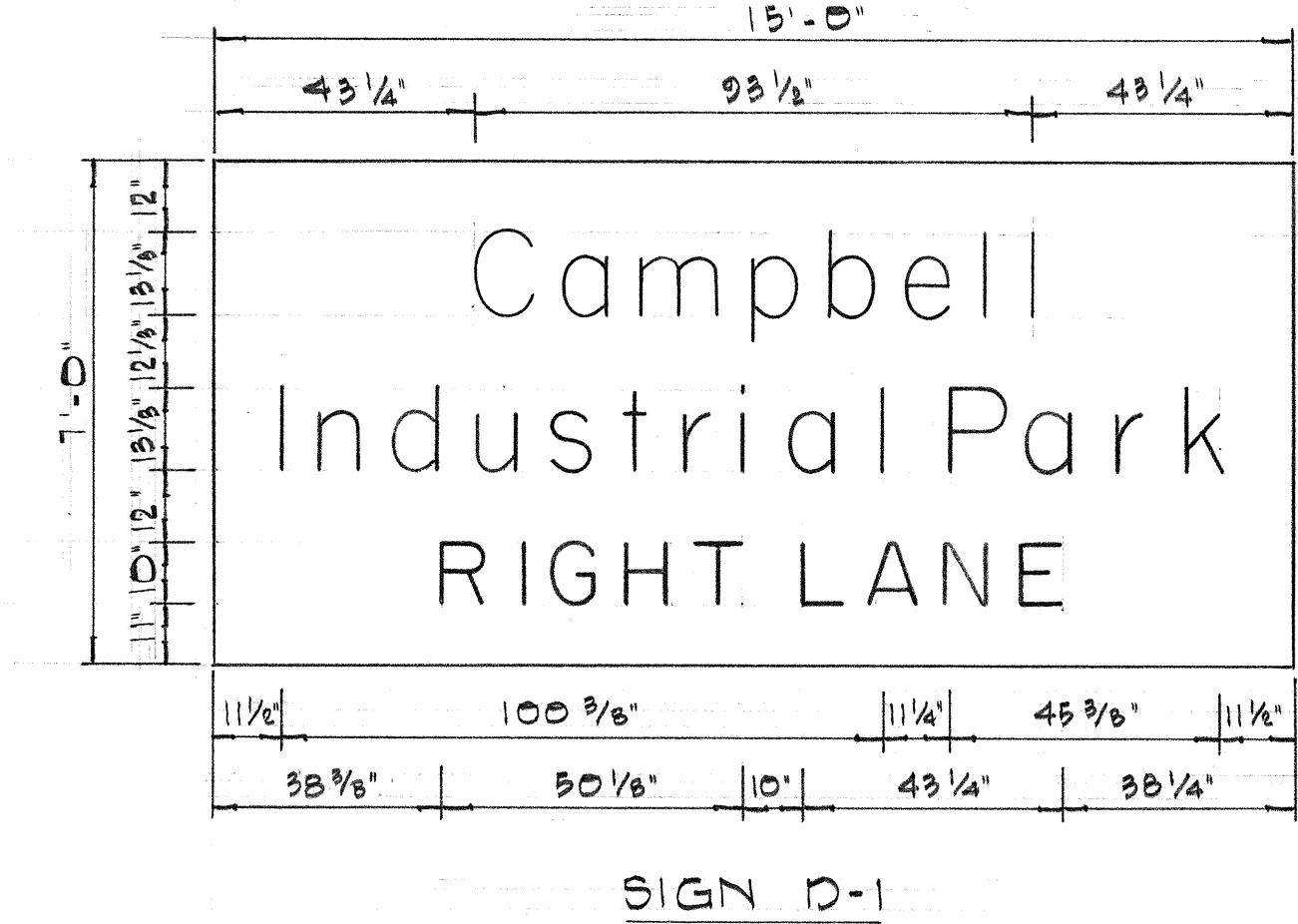
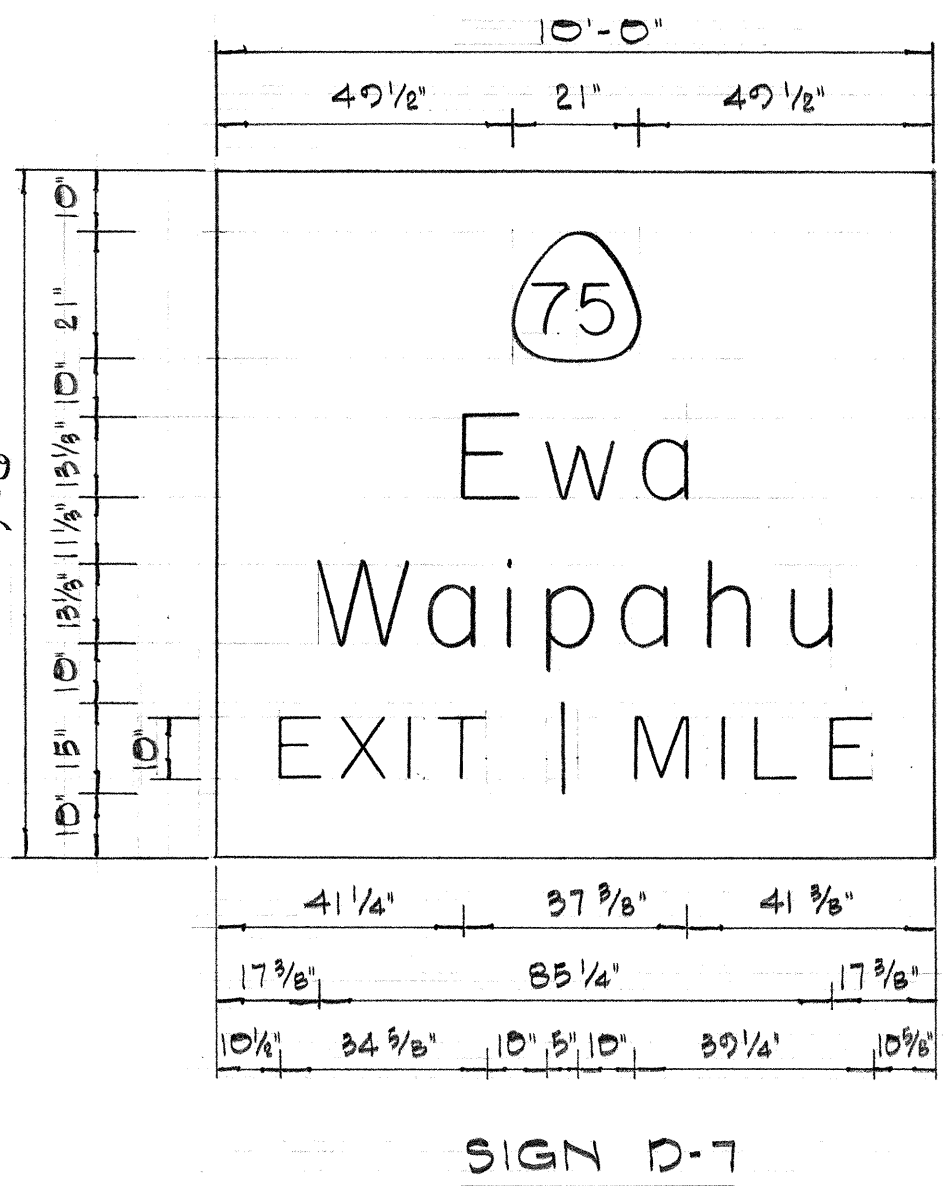
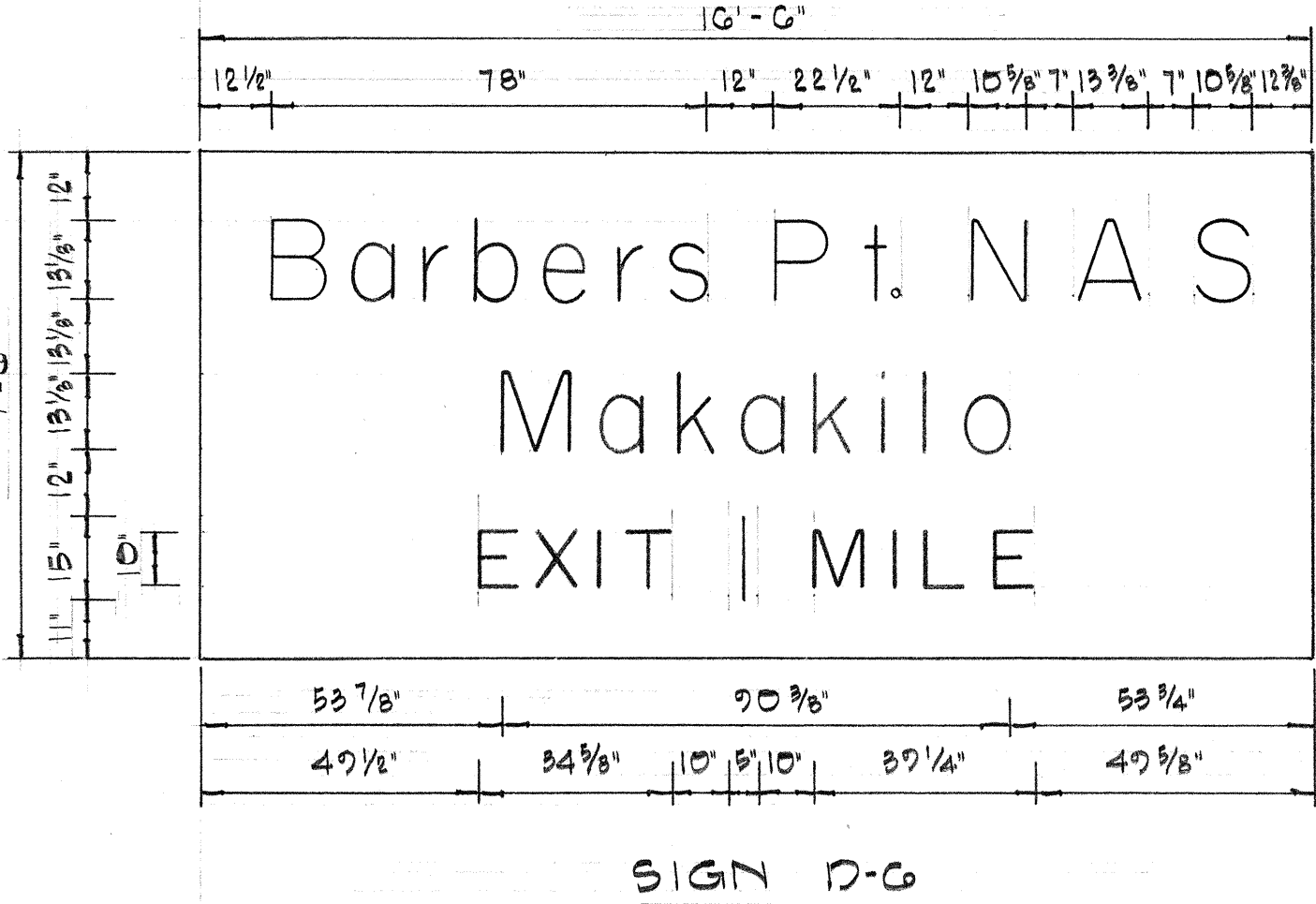
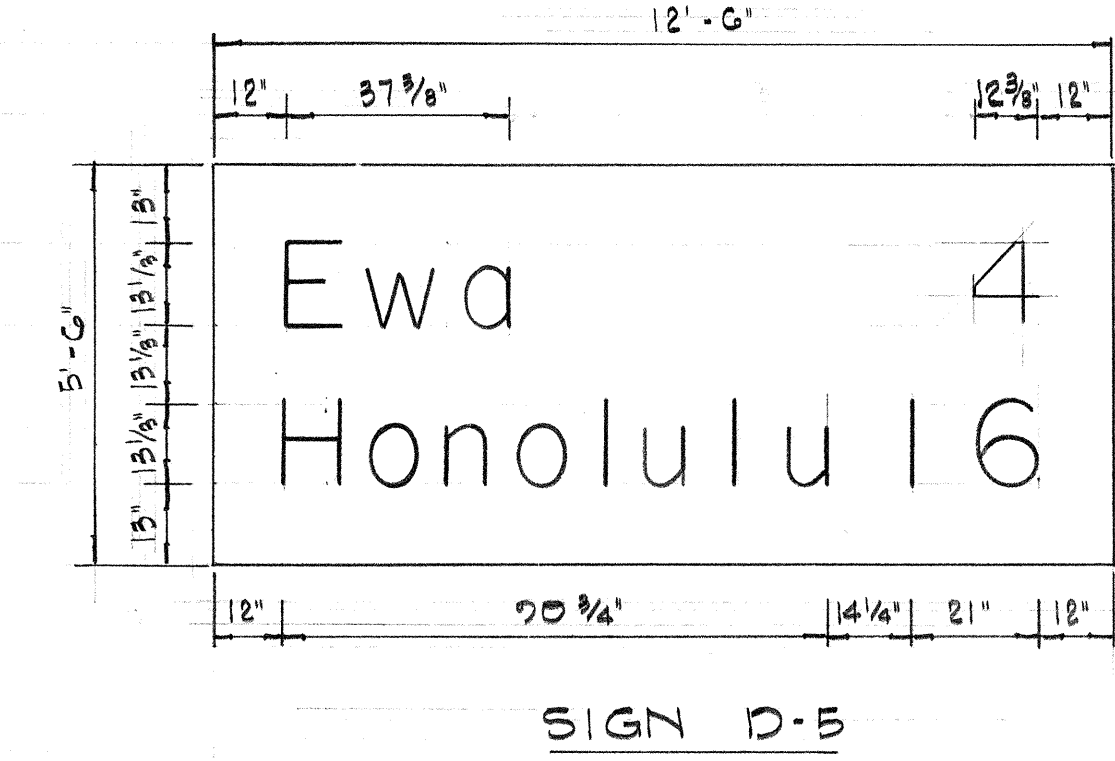
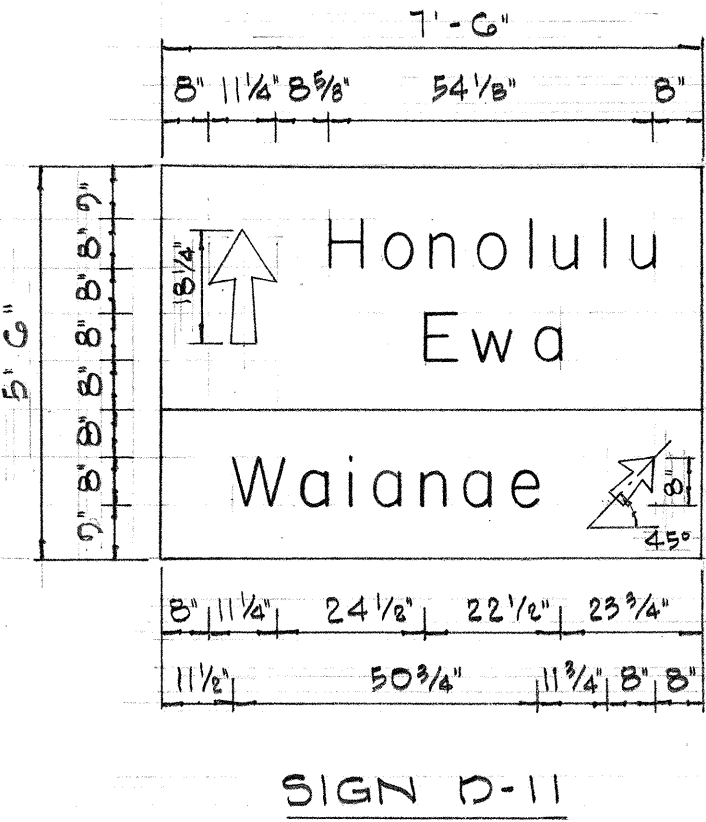
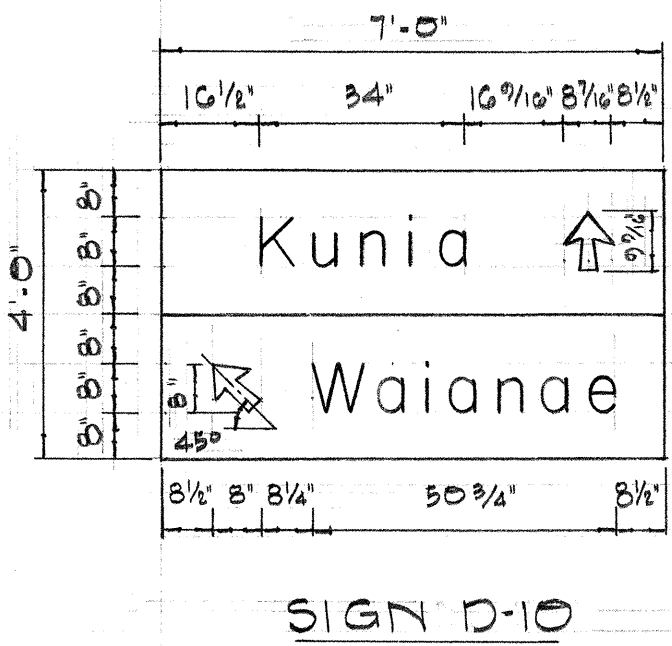
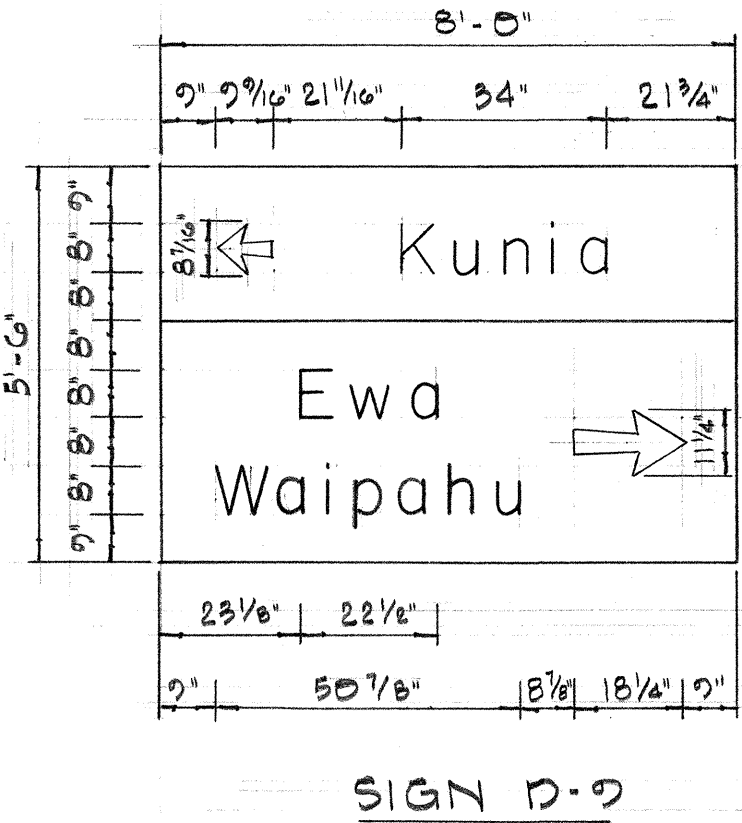
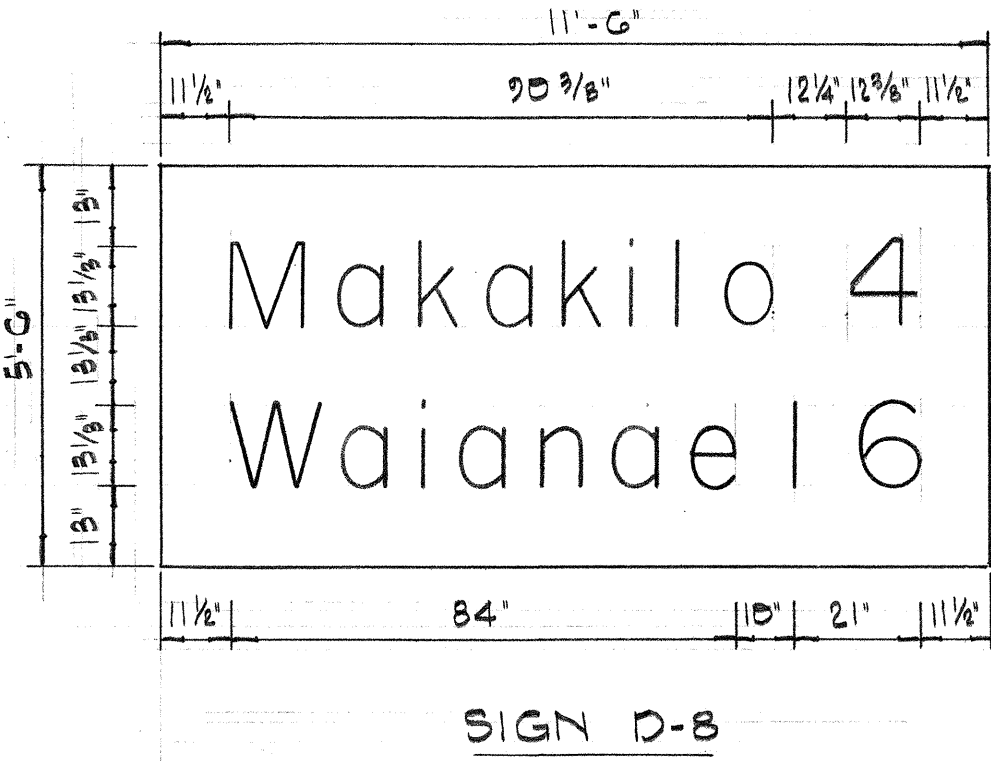
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DESTINATION SIGNS
PANEL LAYOUT

INTERSTATE ROUTE H-1
F.A.I. Proj. I-HI-1(19)

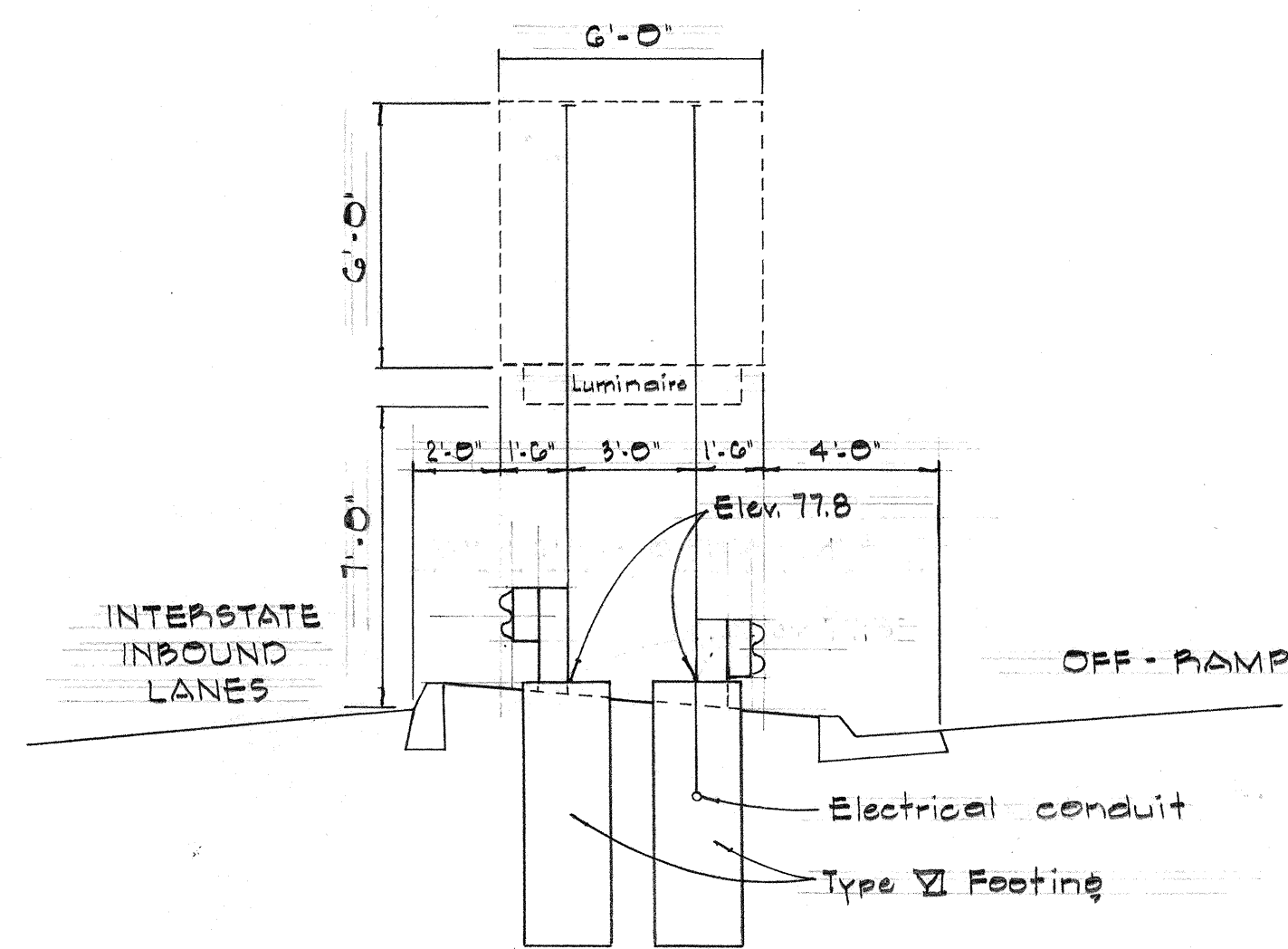
Not to Scale
December 1965

SHEET No. 11 OF 30 SHEETS

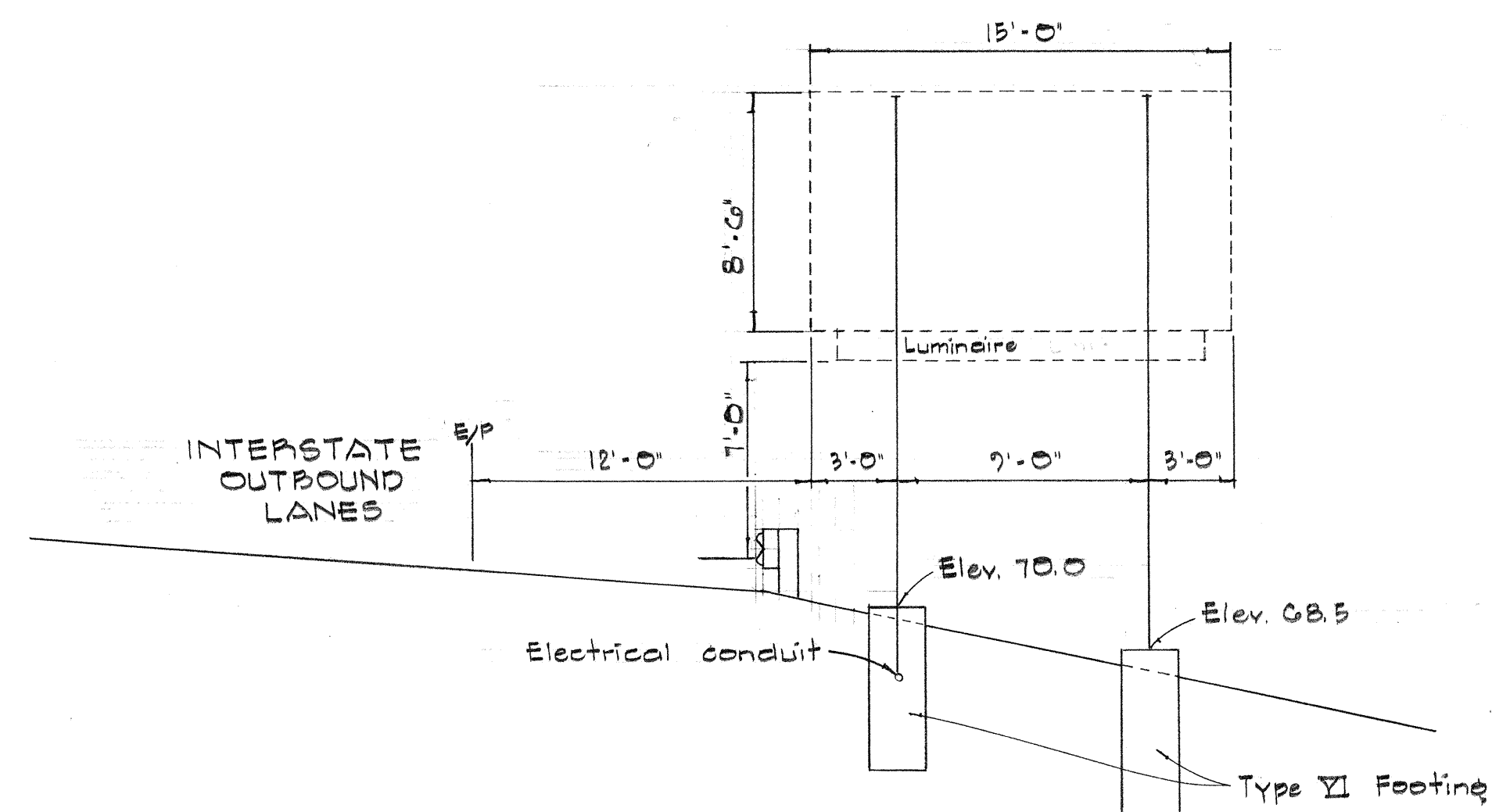


ORIGINAL PLAN	DATE
DESIGNED BY	
TRACED BY	
NOTED BY	
CHECKED BY	
NO.	

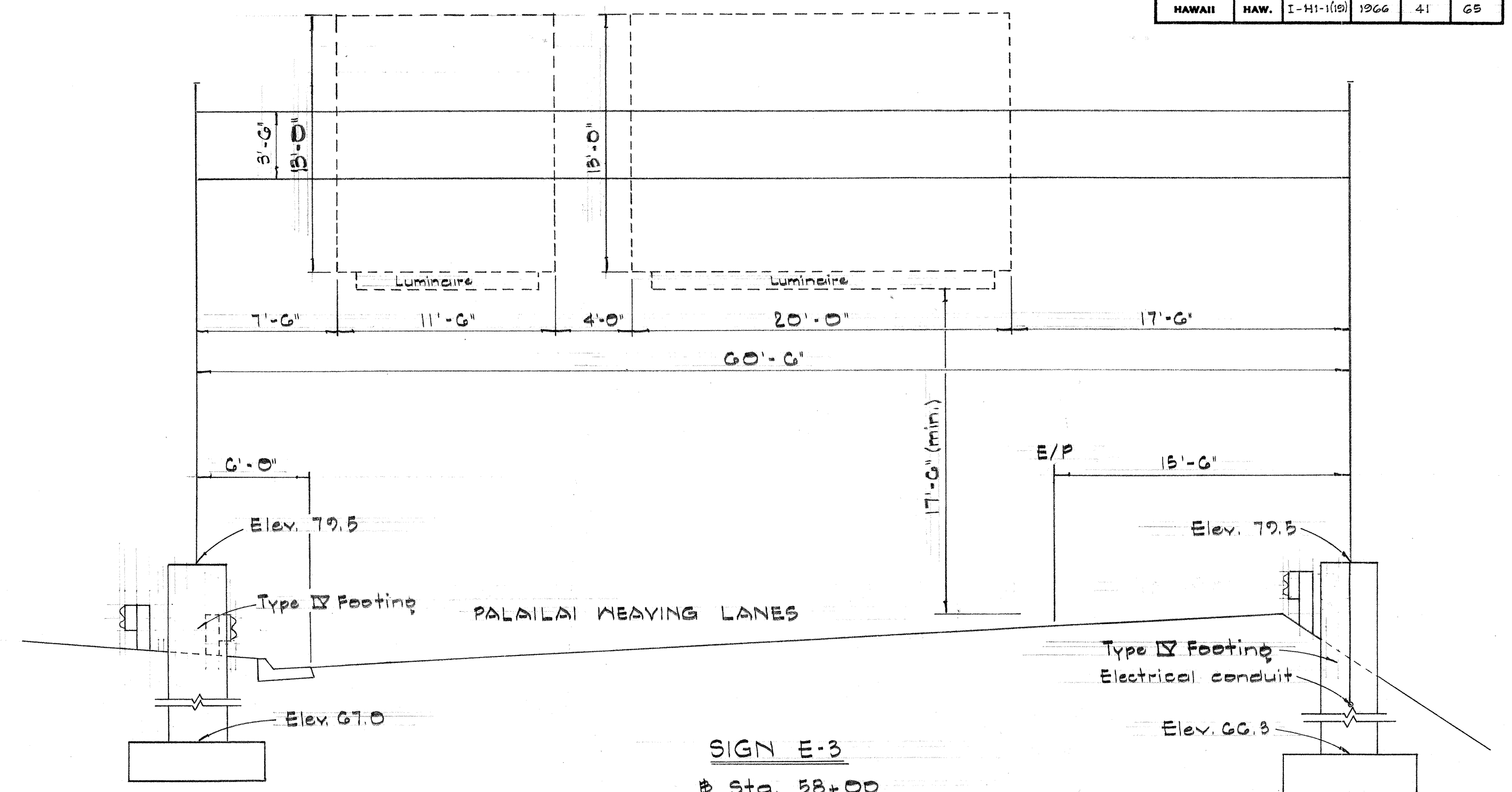
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-H1-1(19)	1966	41	65



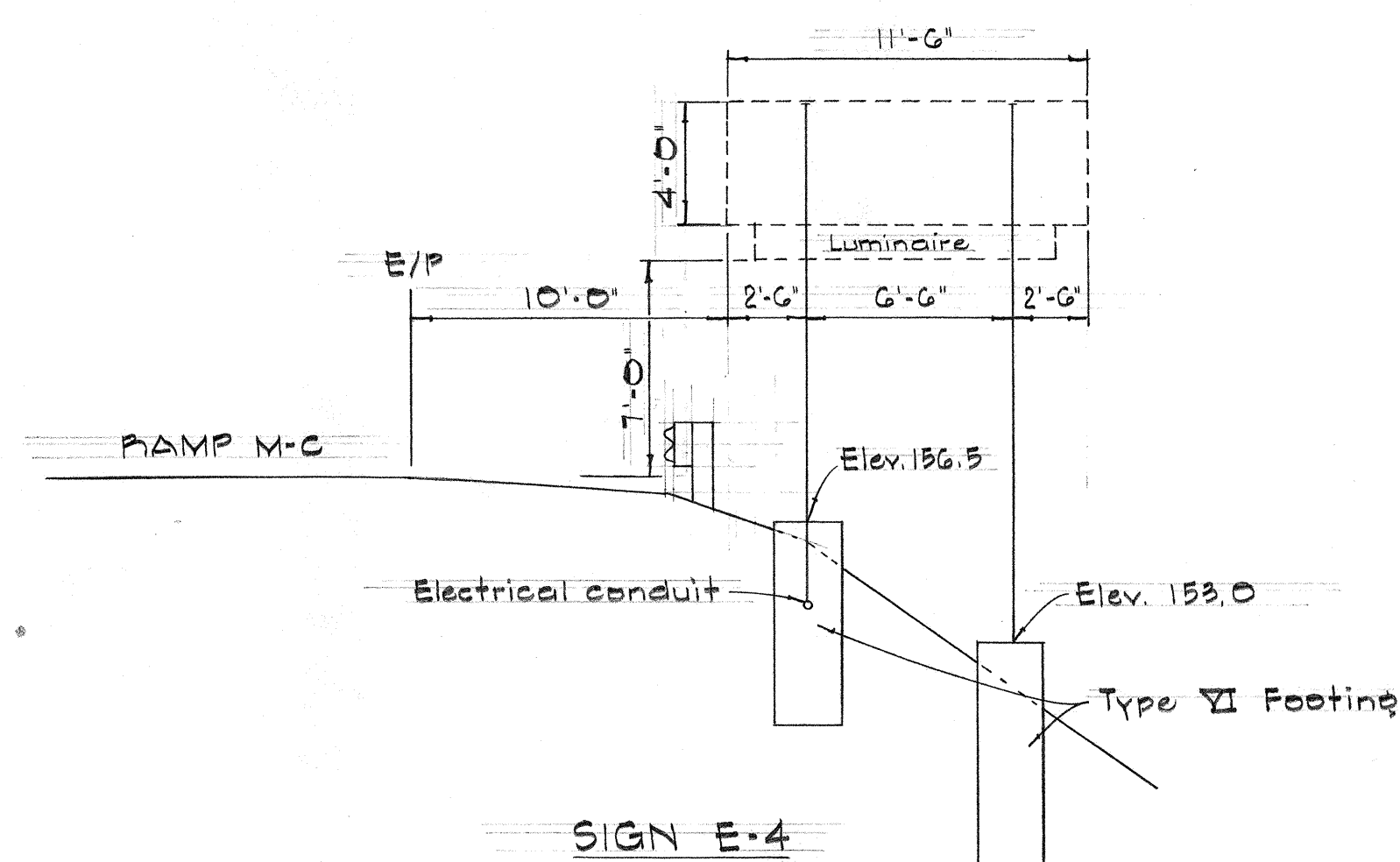
SIGN E-1
Sta. 49+30



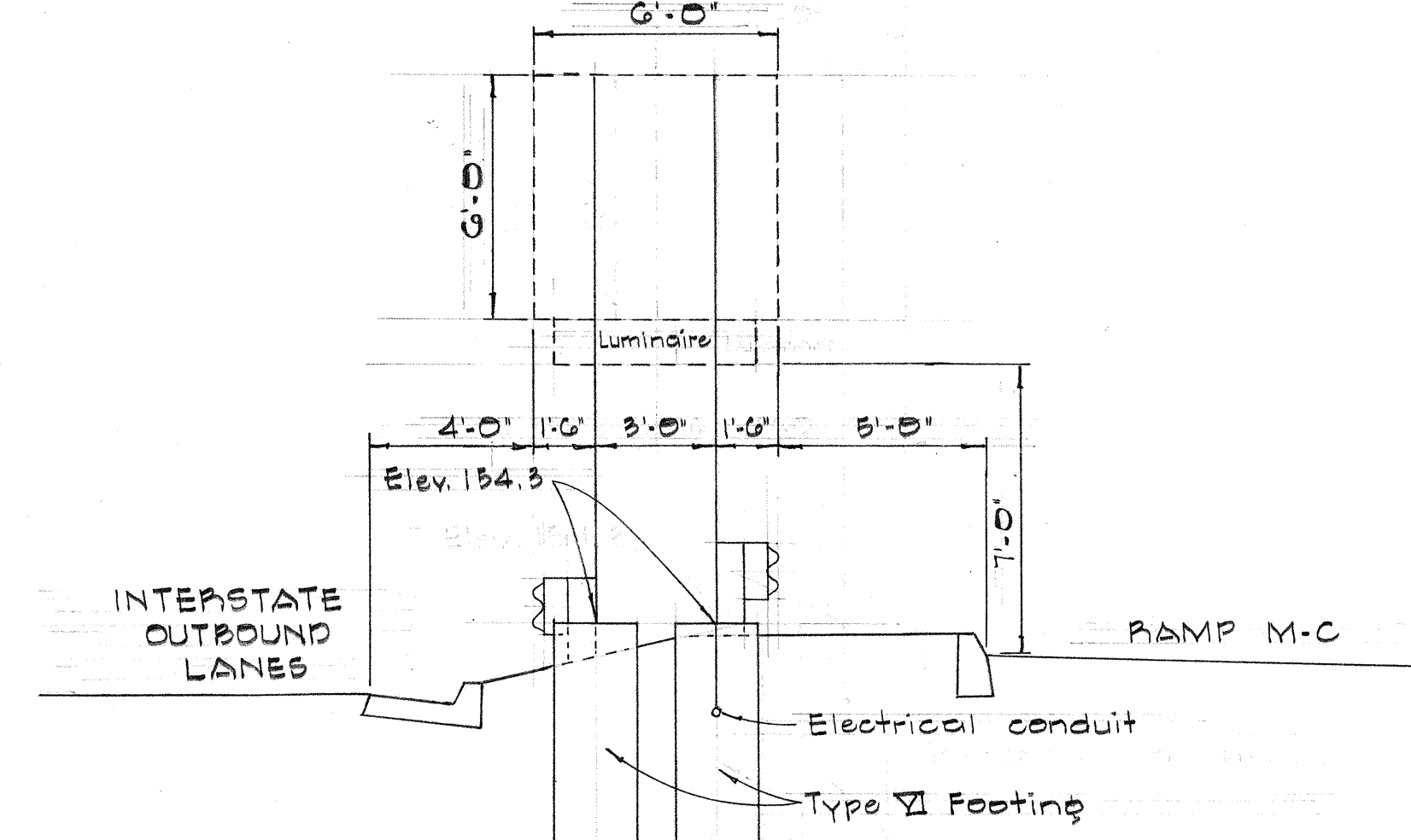
SIGN E-2
Sta. 54+50



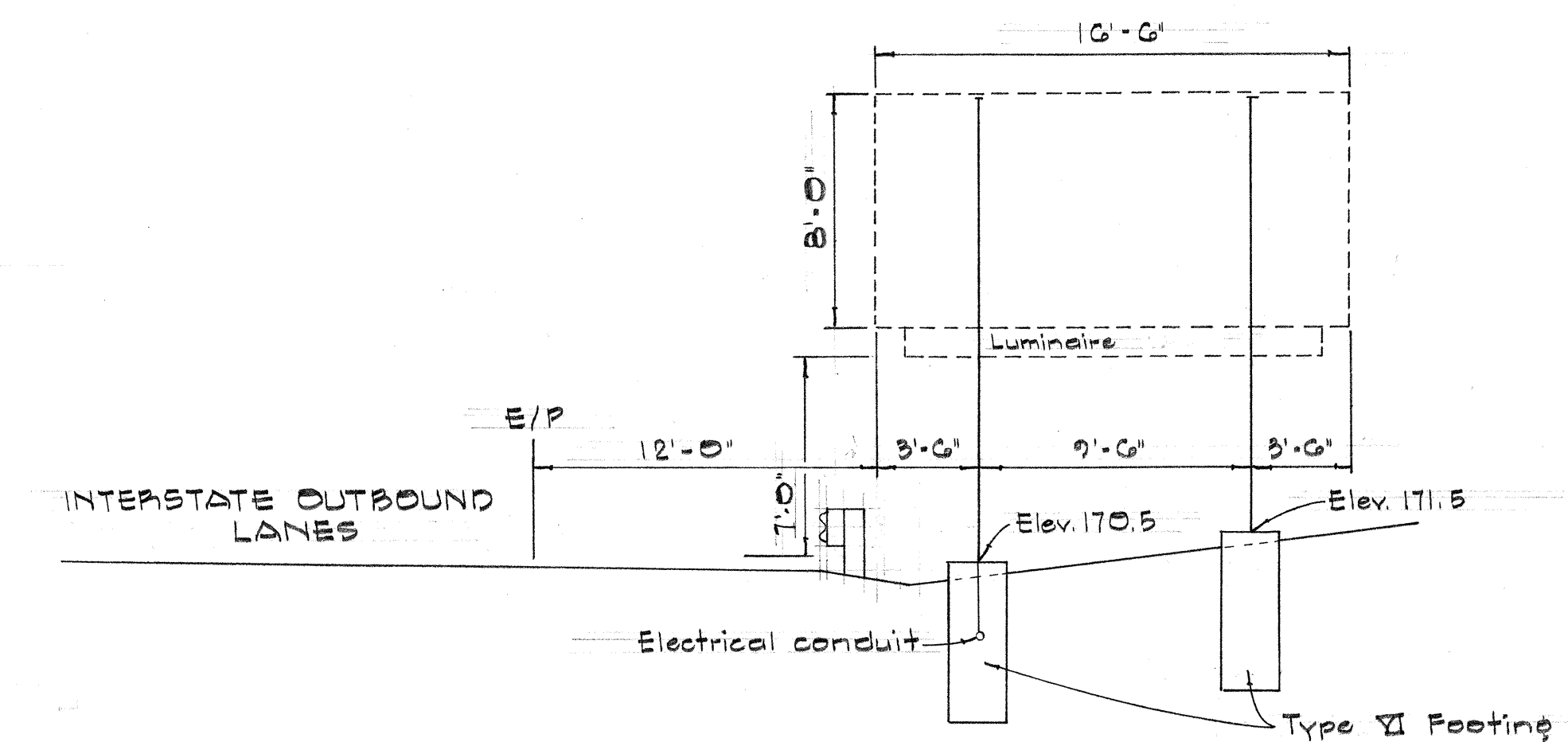
SIGN E-3
Sta. 58+00



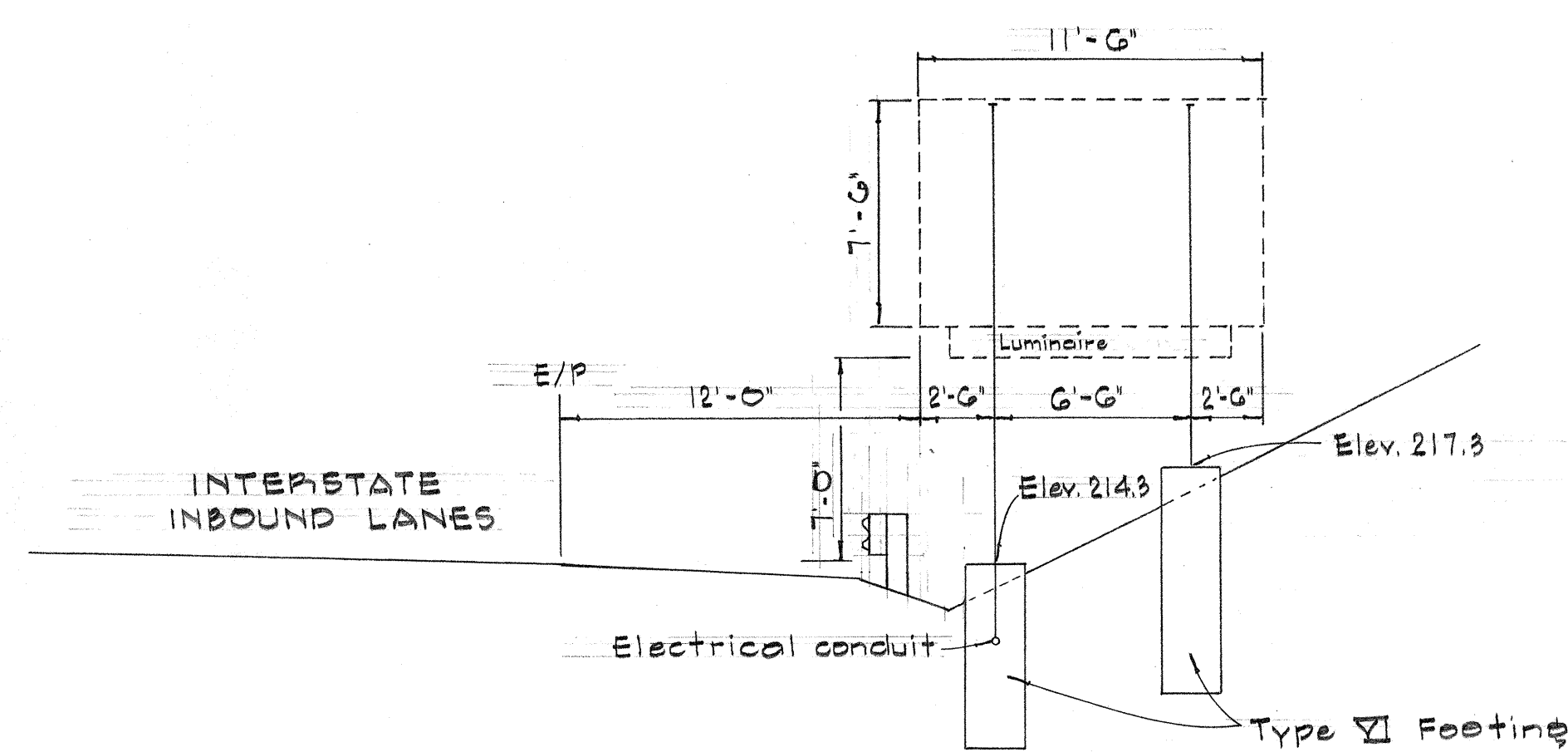
SIGN E-4
Ramp M-C Sta. 10+00



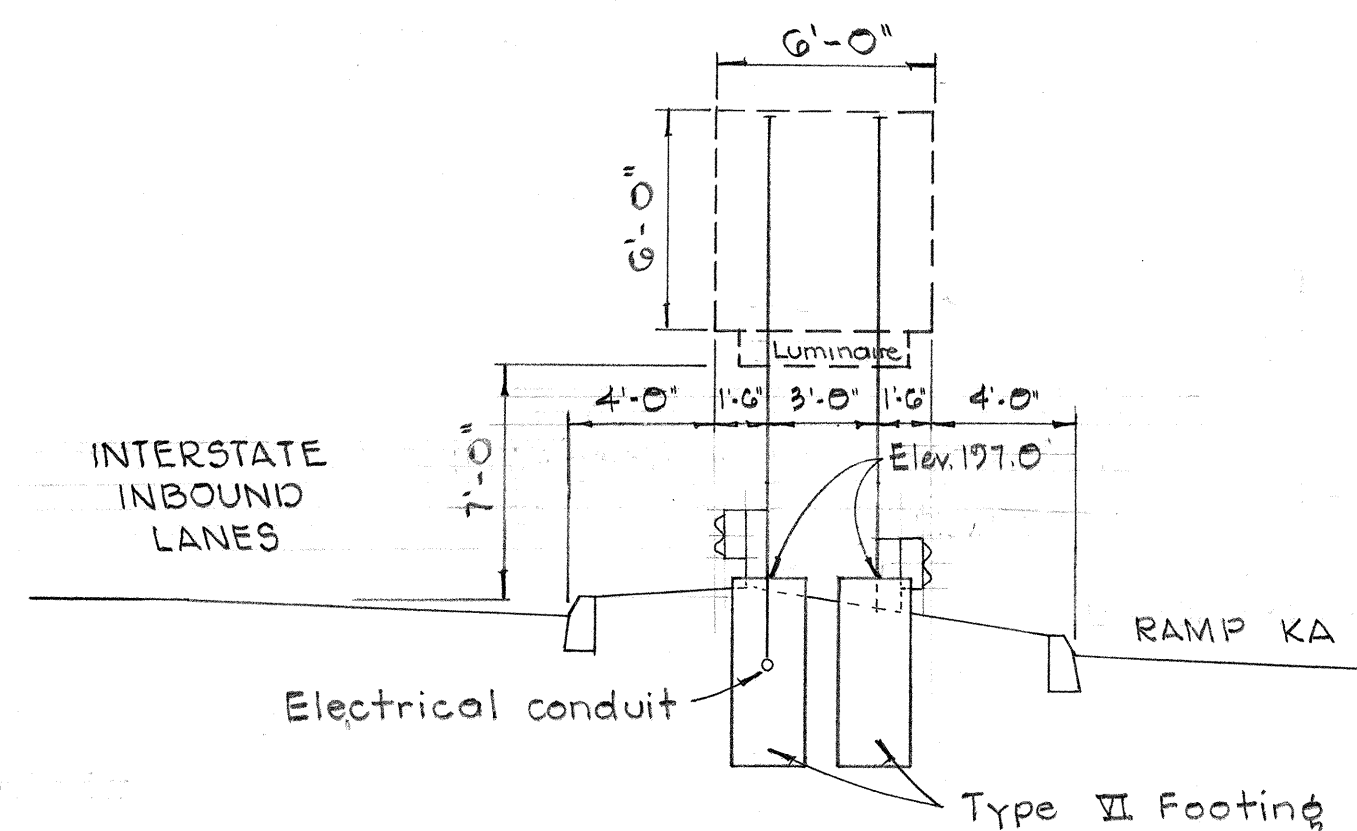
SIGN E-5
Sta. 108+50



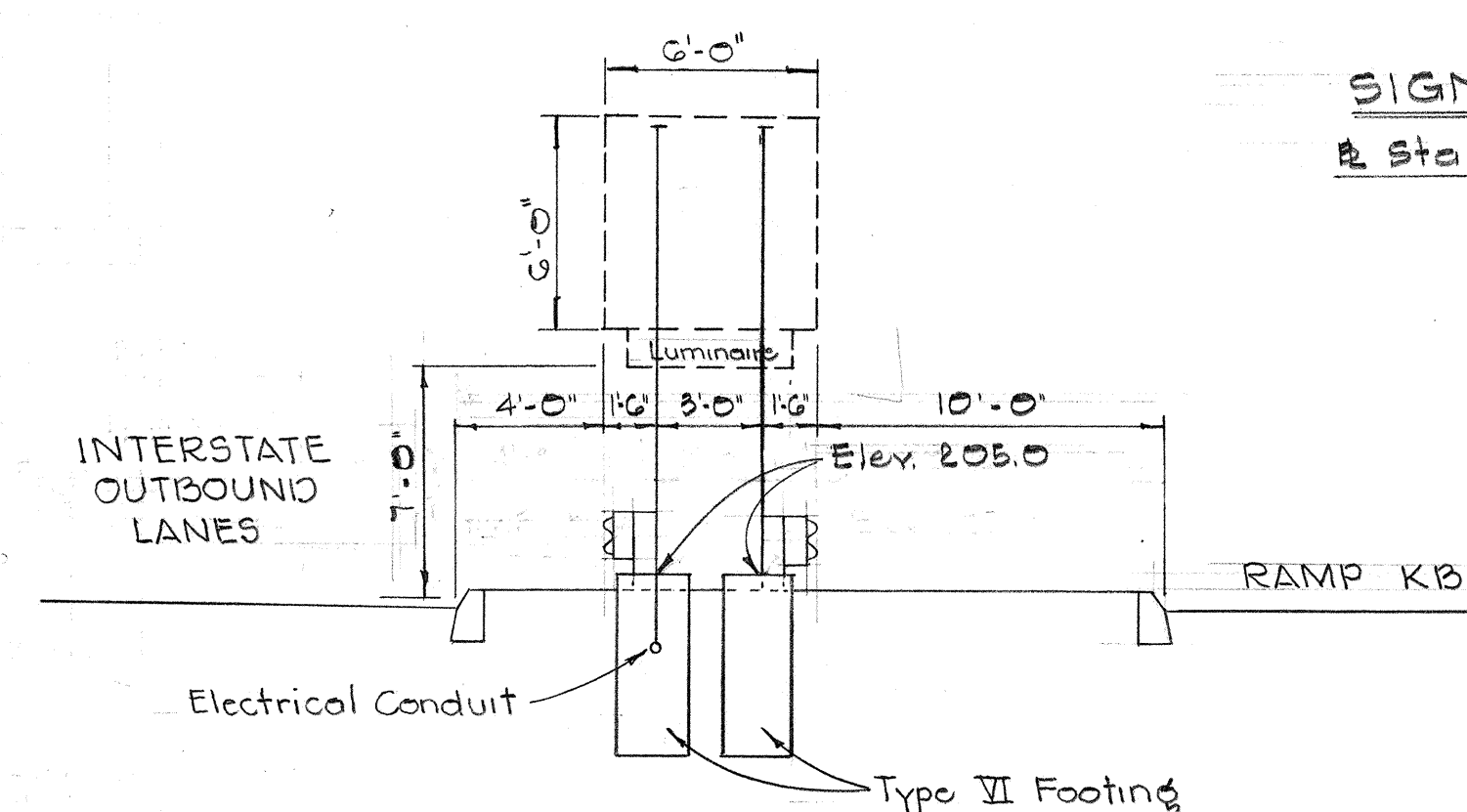
SIGN E-6
Sta. 115+00



SIGN E-7
Sta. 310+00



SIGN E-8
Ramp KA Sta. 4+50



SIGN E-9
Sta. 321+00

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EXPRESSWAY SIGNS

FRAME LAYOUT

INTERSTATE ROUTE H-1

F.A.I. Proj. I-H1-1(19)

Not to Scale

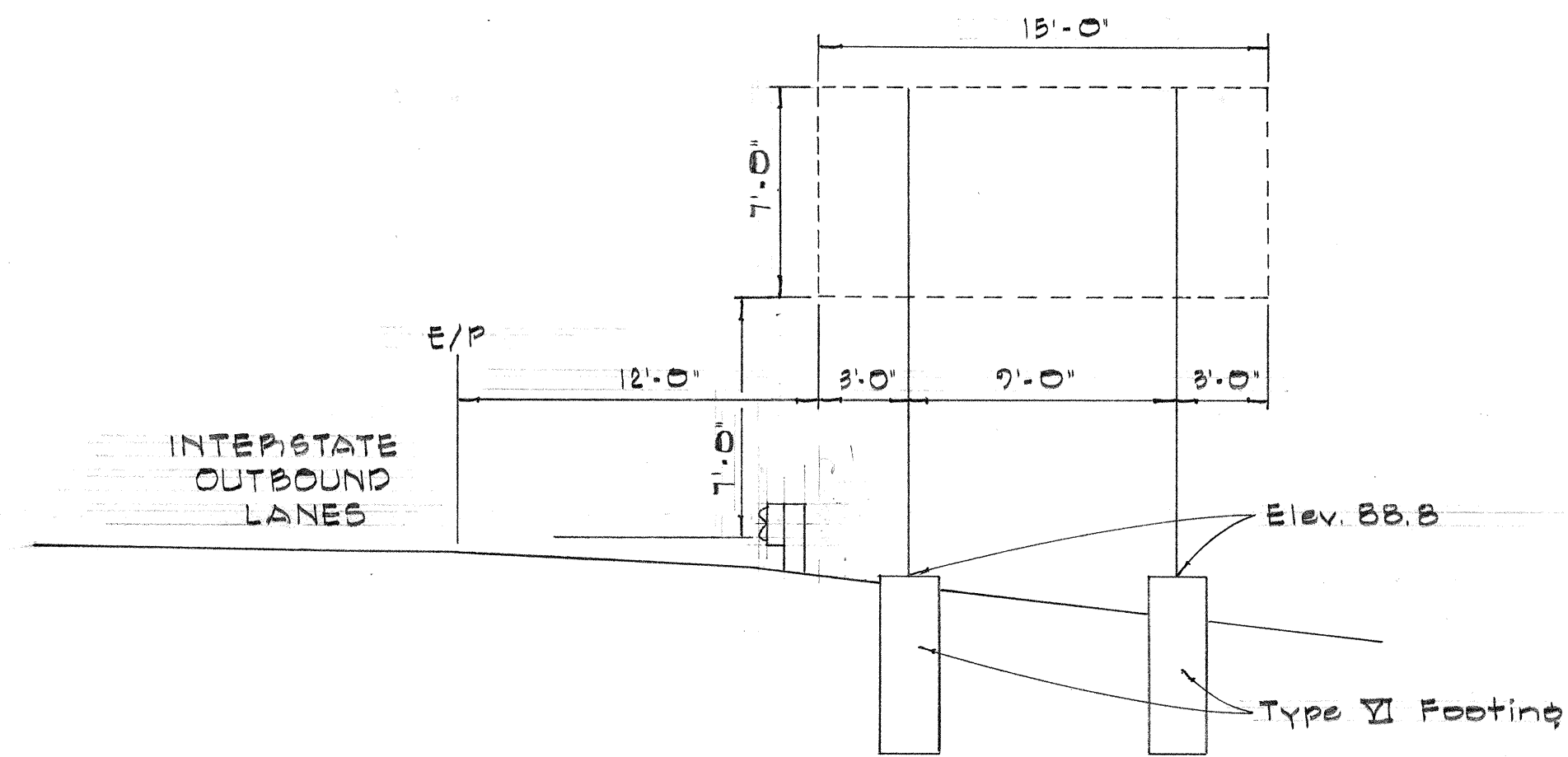
December 1965

SHEET No. 12 OF 30 SHEETS

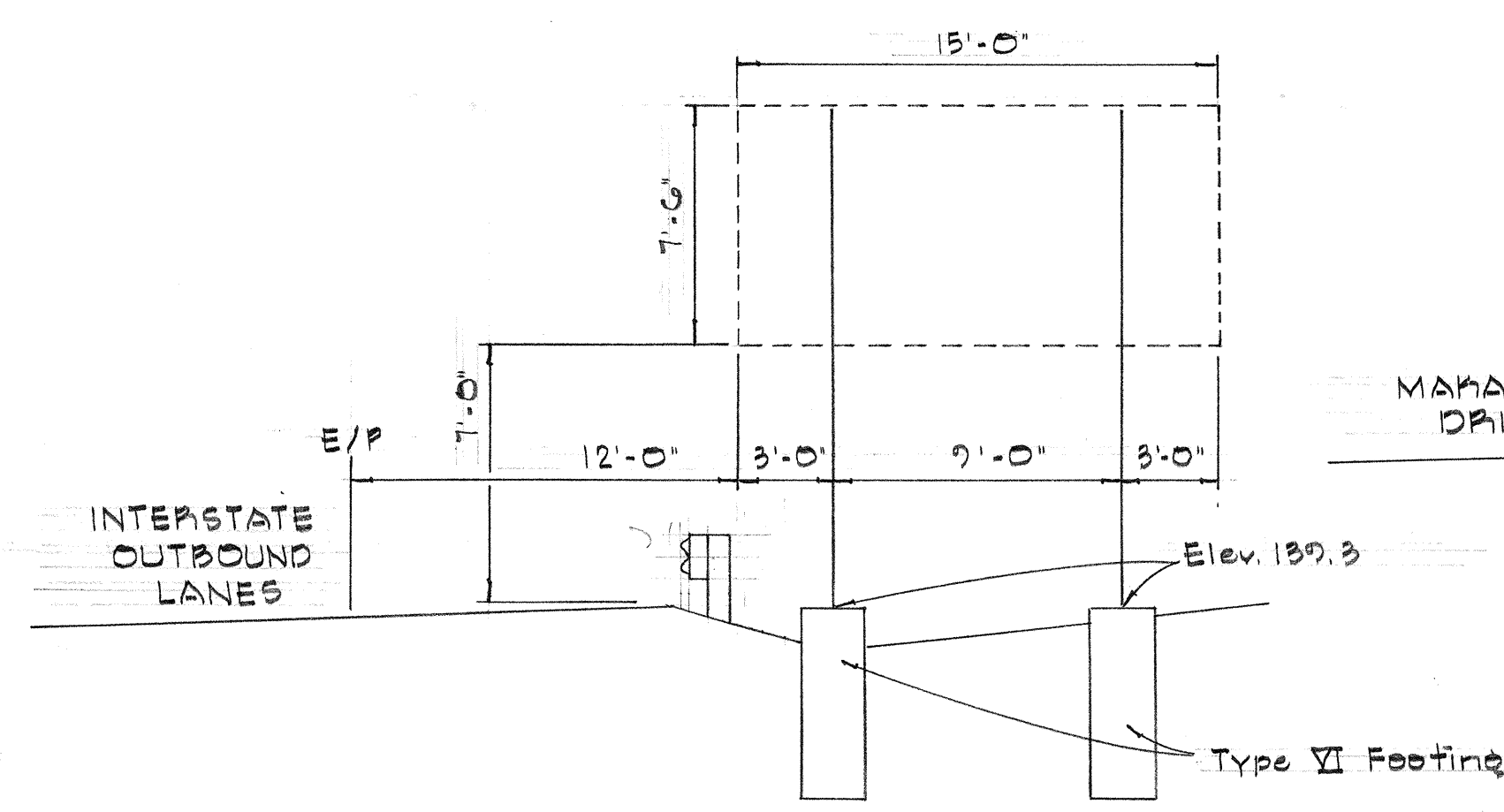
41 11

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

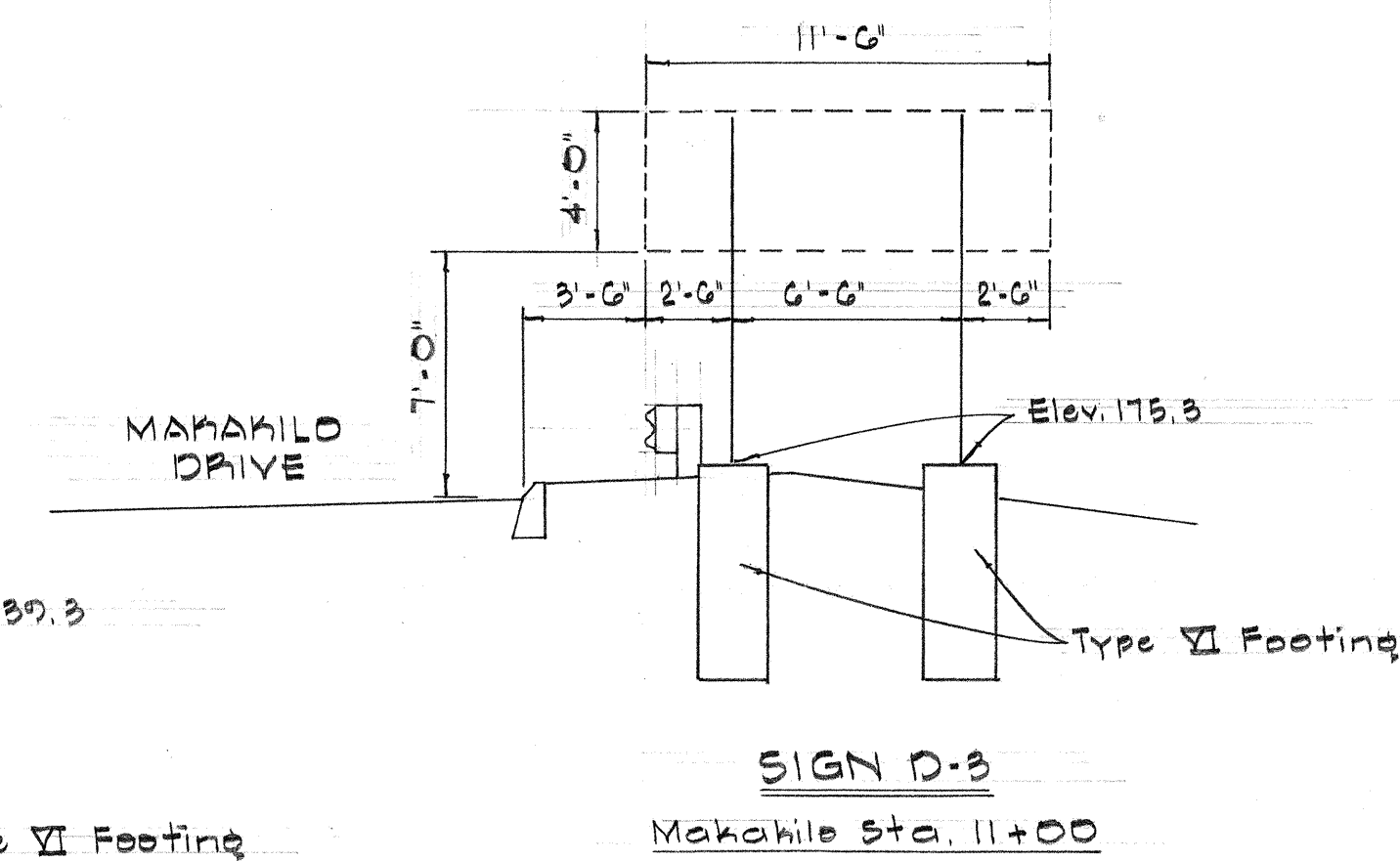
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(19)	1966	42	63



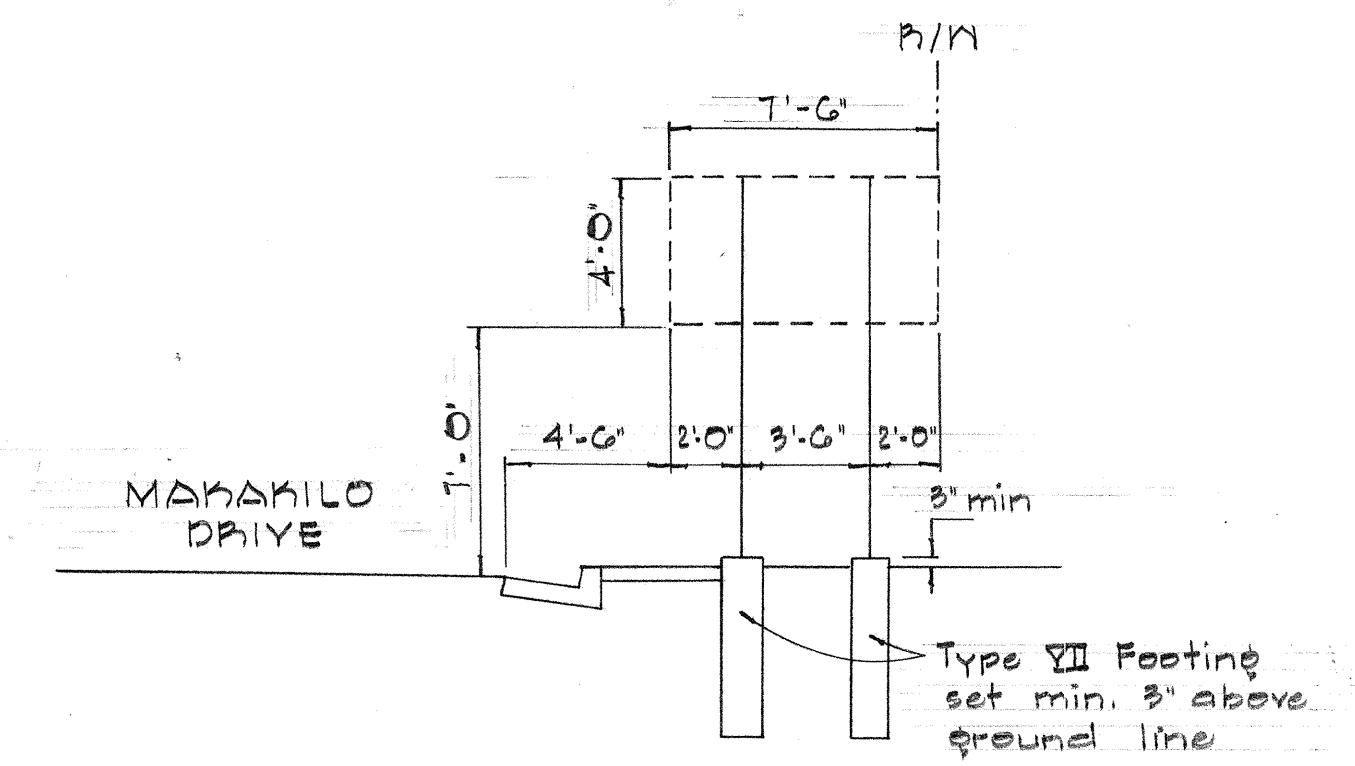
SIGN D-1
Sta. 67+50



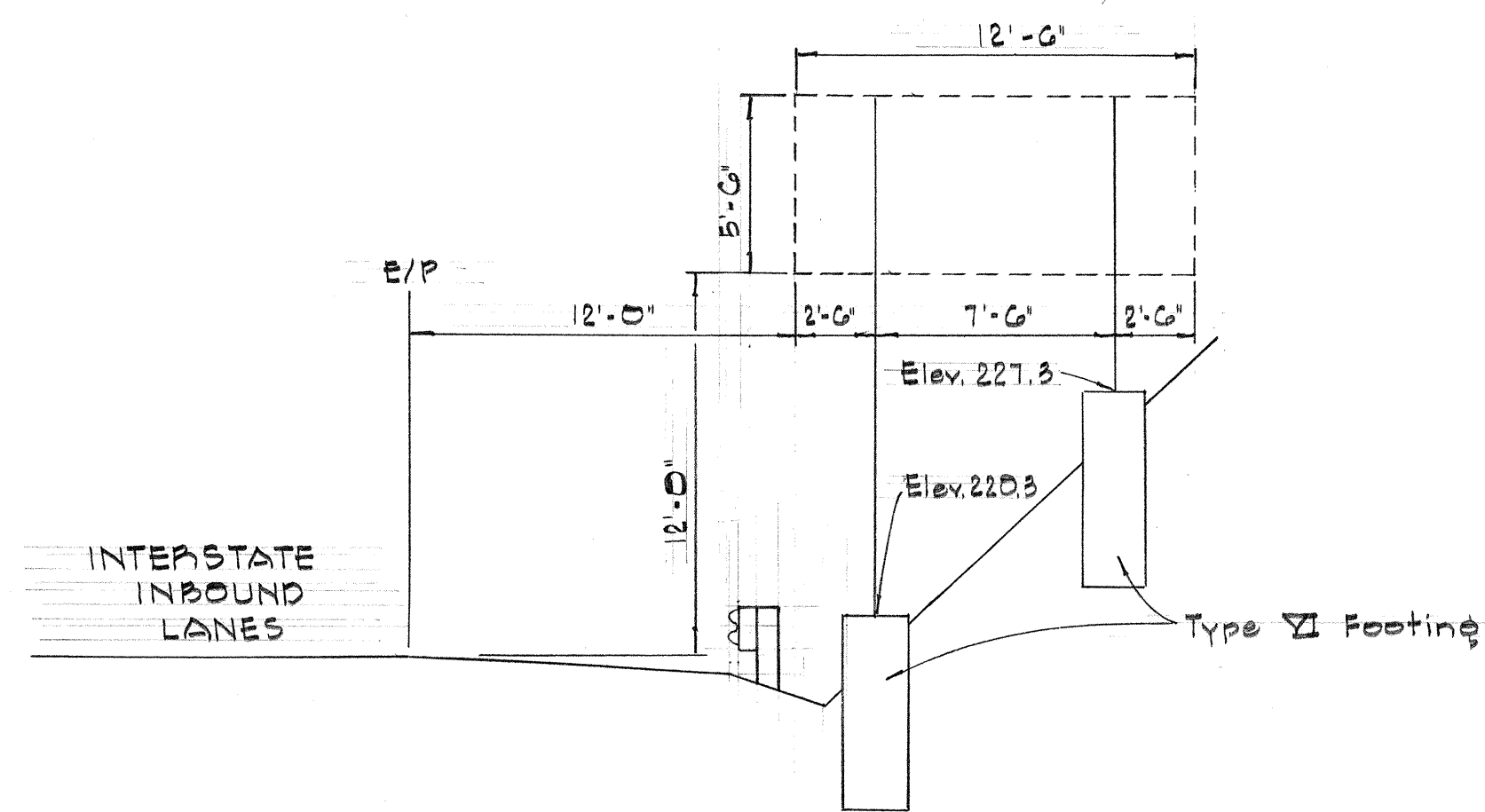
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Sta. 23+00



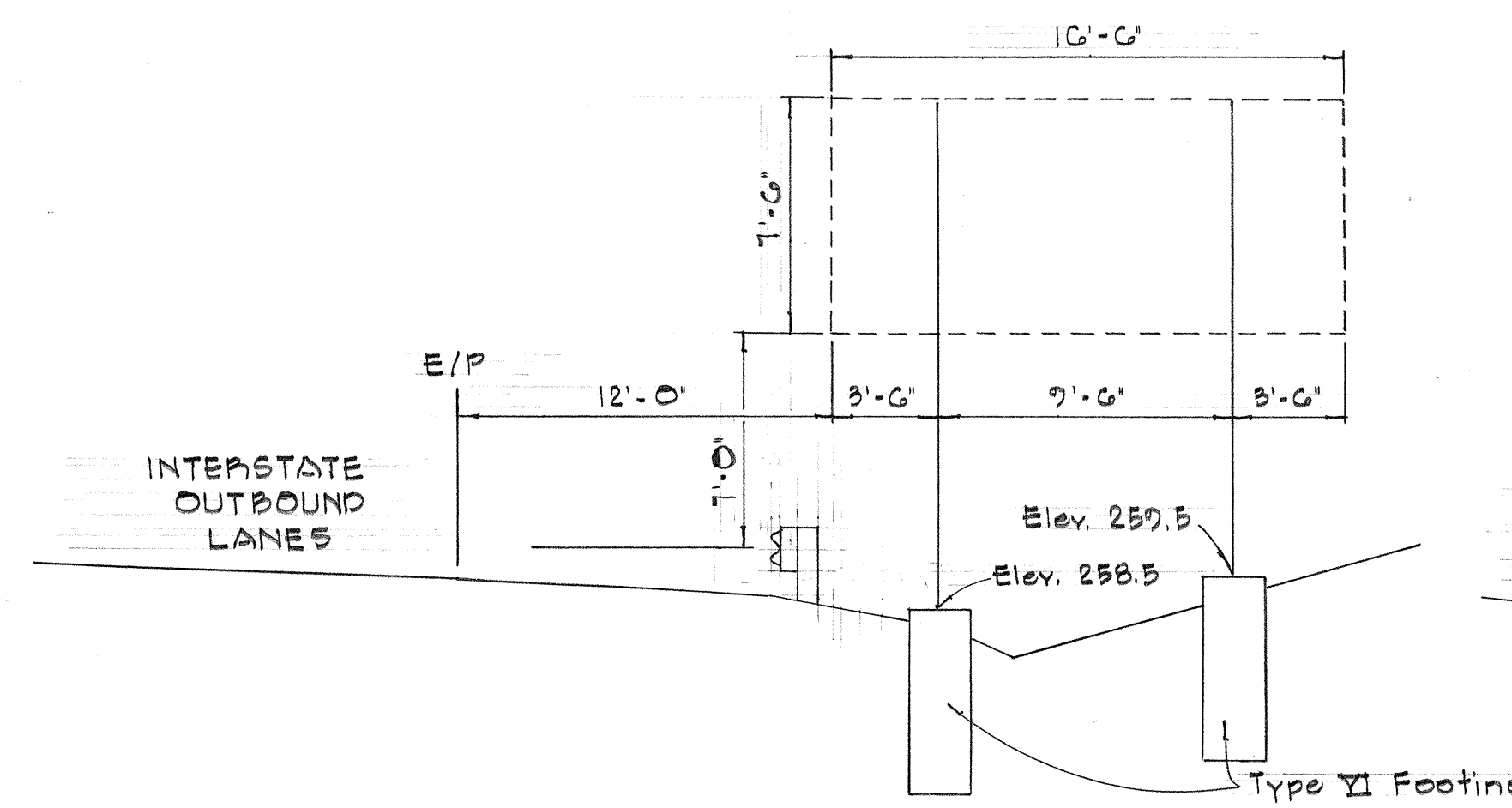
SIGN D-3
Mahakilo Sta. 11+00



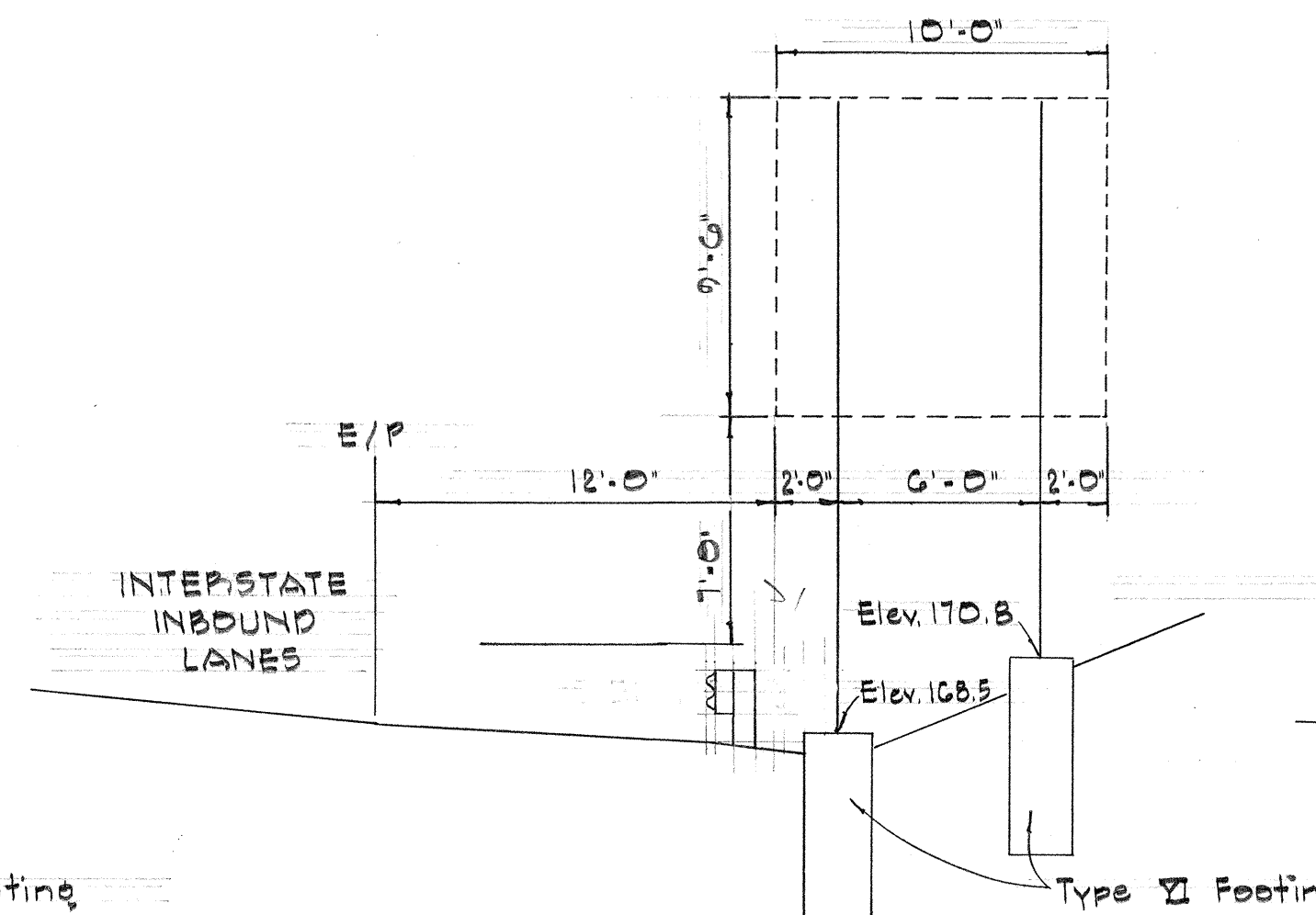
SIGN D-4
Mahakilo Sta. 2+50



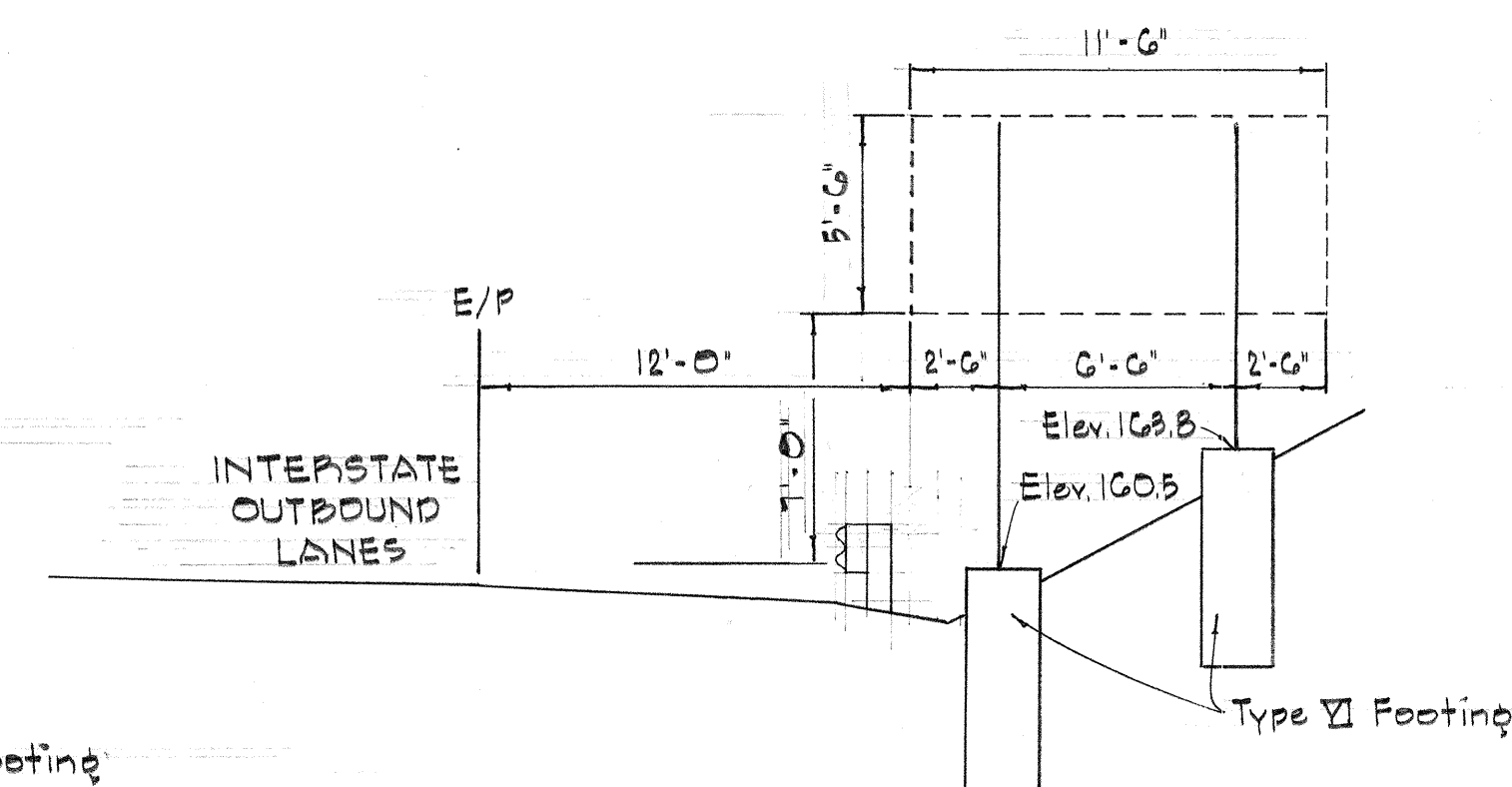
SIGN D-5
Sta. 143+00



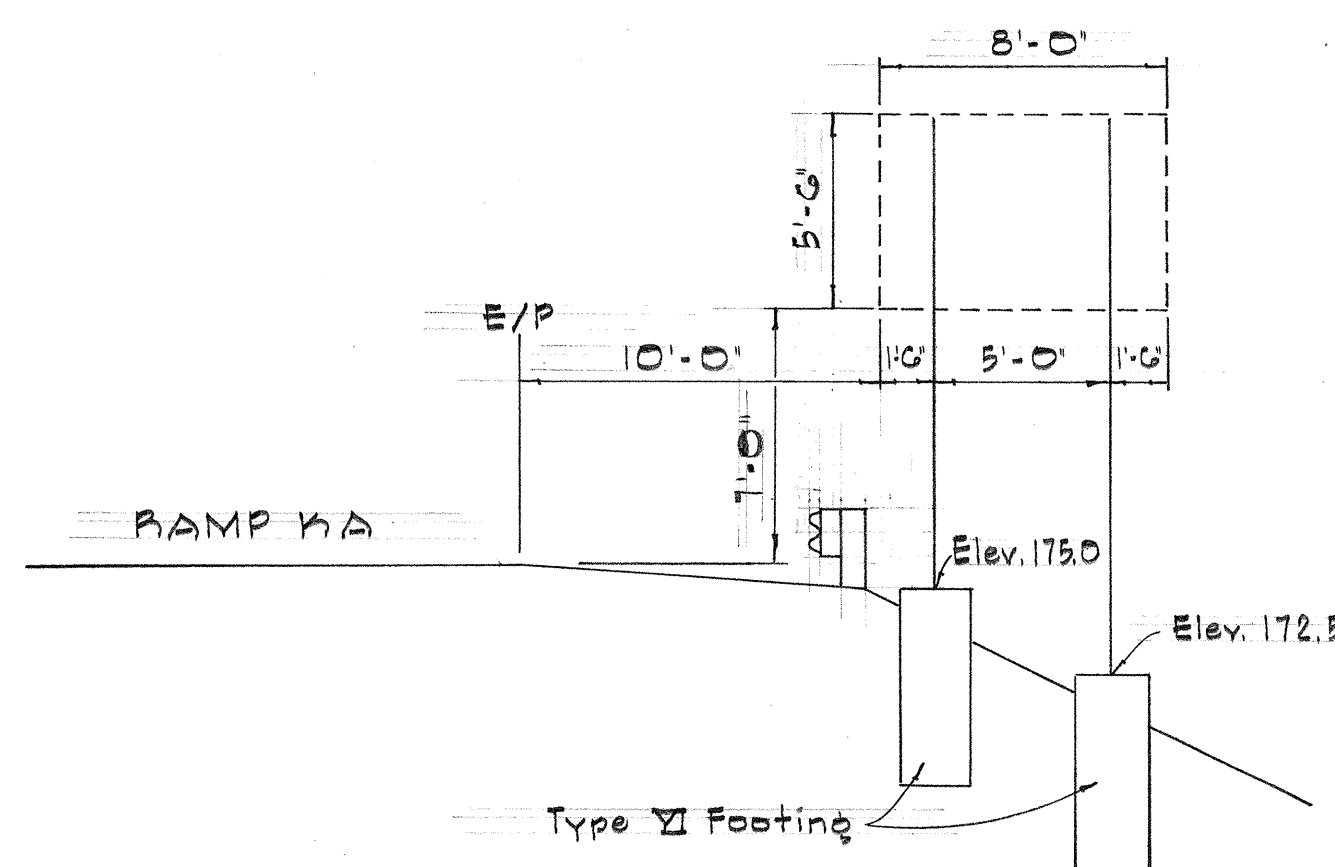
SIGN D-6
Sta. 167+00



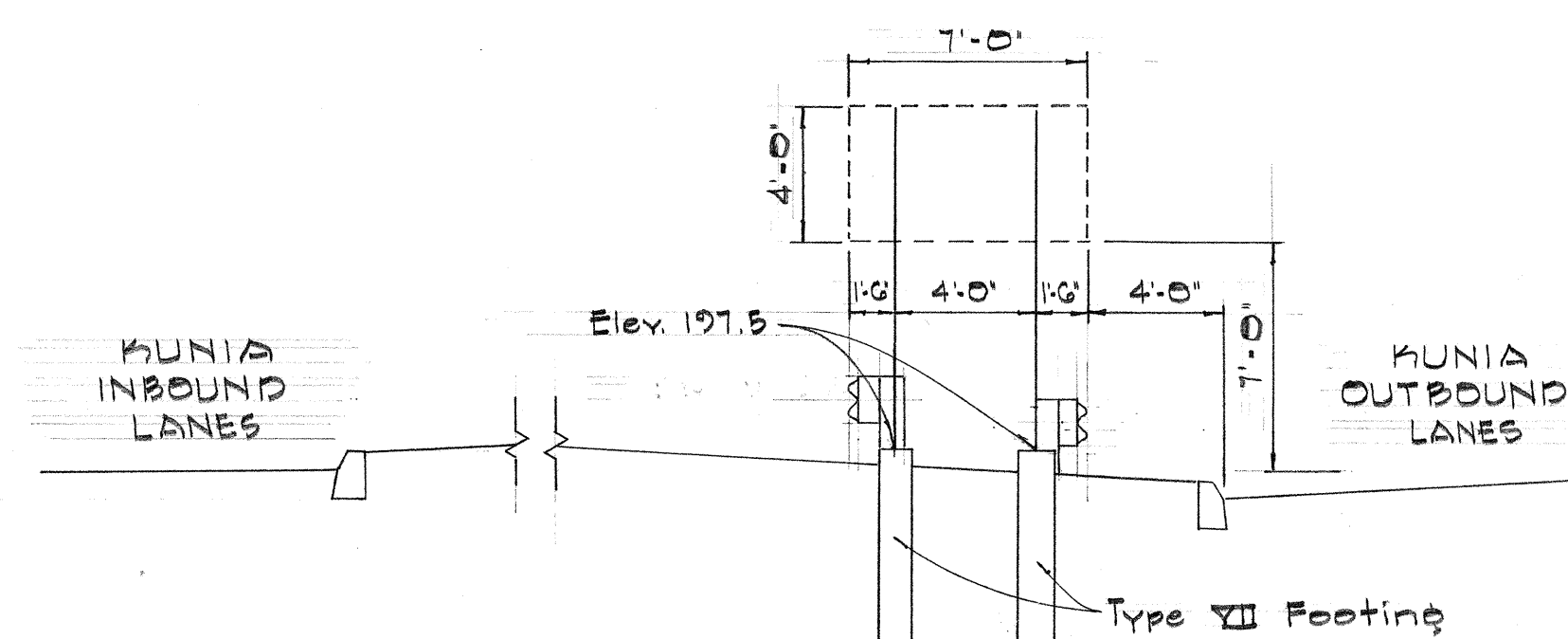
SIGN D-7
Sta. 272+00



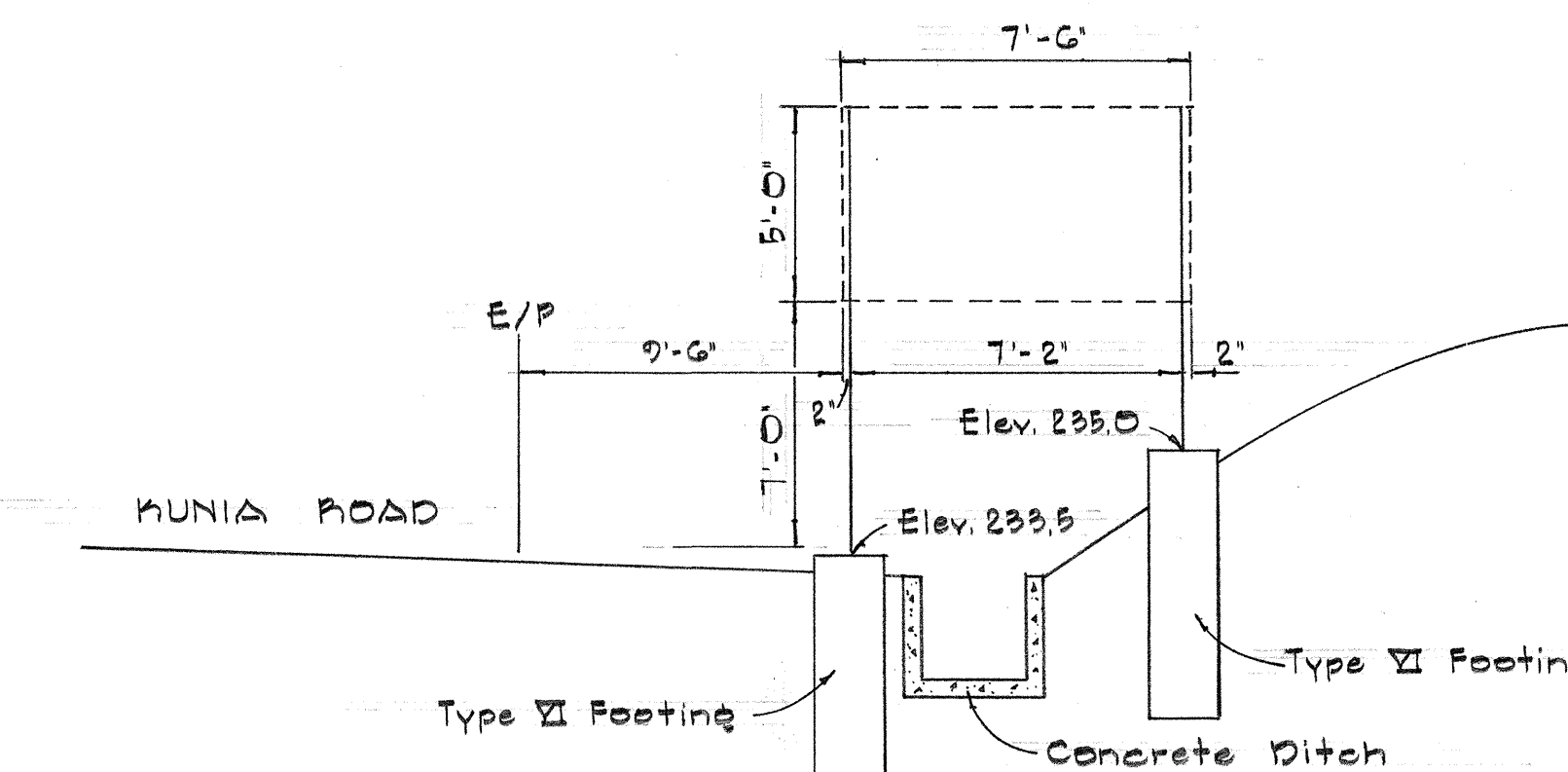
SIGN D-8
Sta. 281+00



SIGN D-9
Ramp KA Sta. 10+50



SIGN D-10
Kunia Sta. 104+00



SIGN D-11
Kunia Sta. 98+00

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

DESTINATION SIGNS FRAME LAYOUT

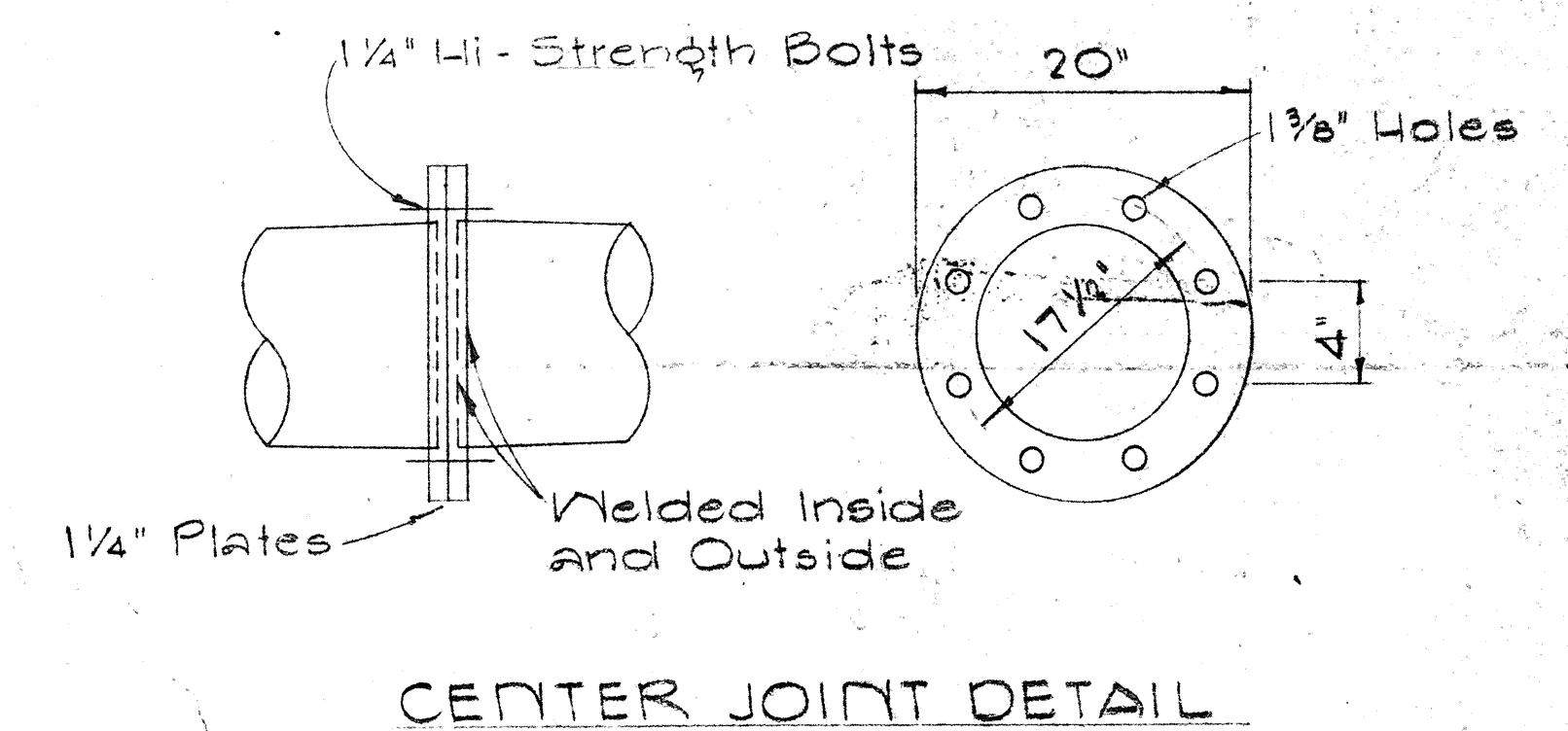
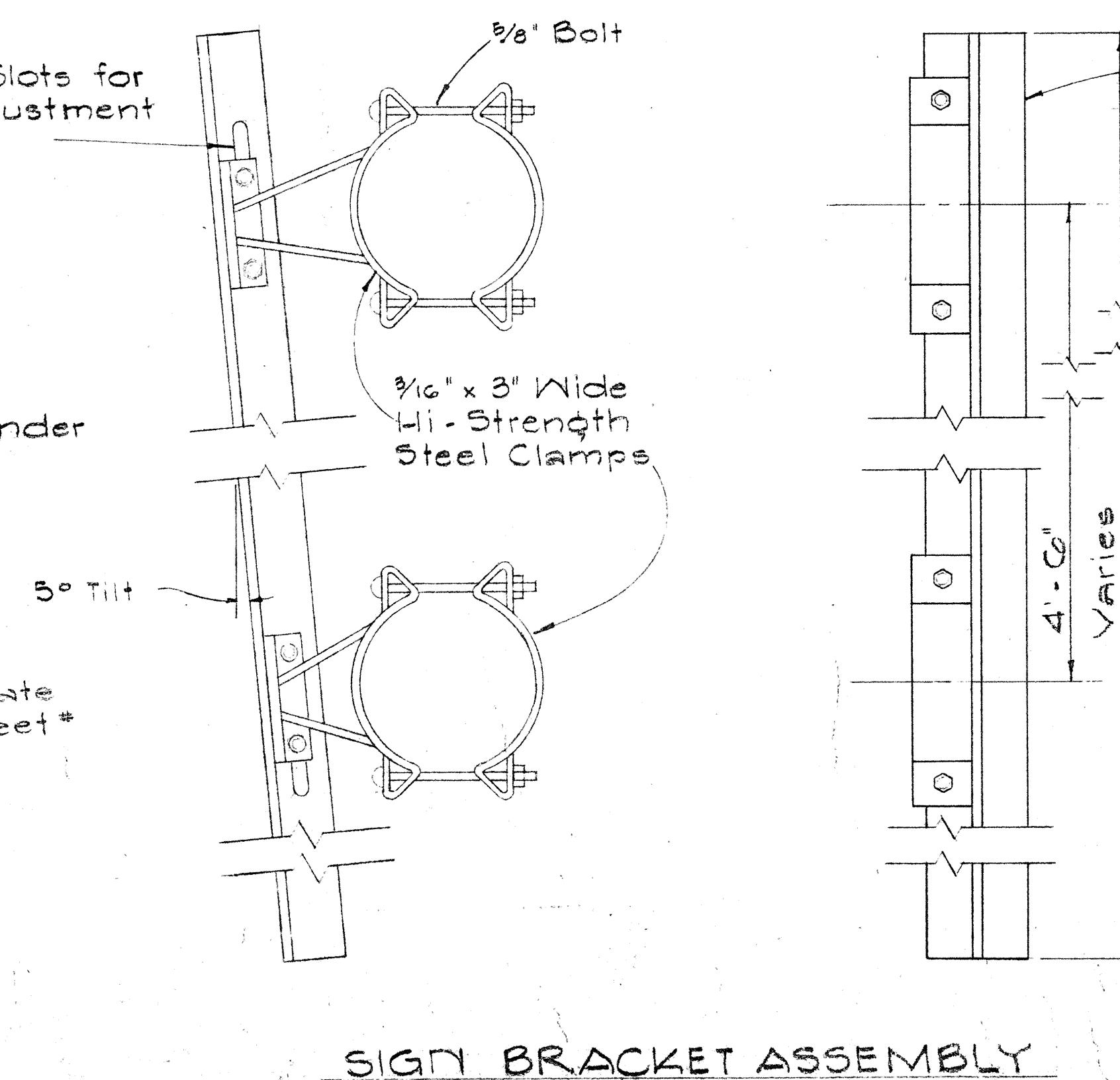
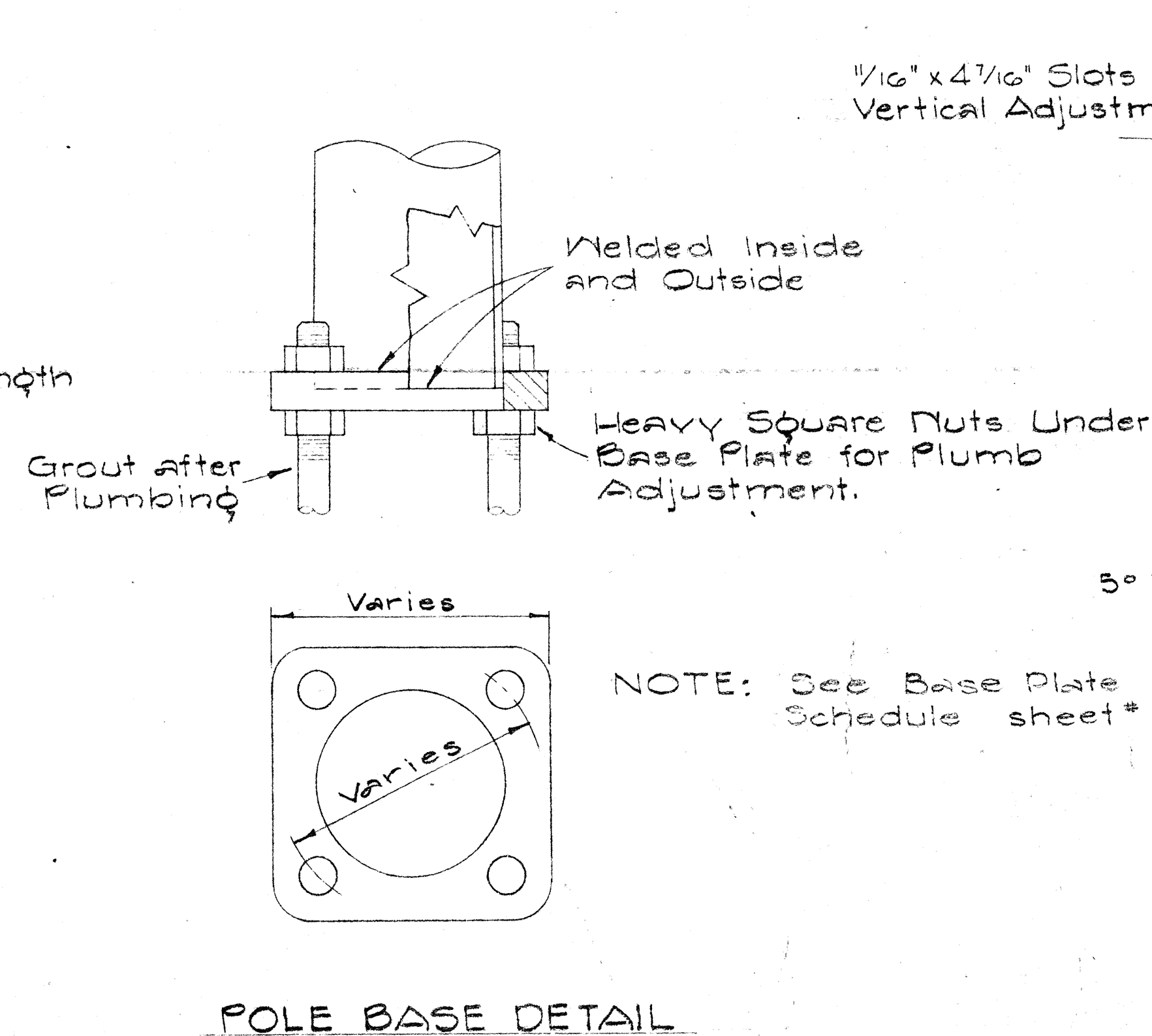
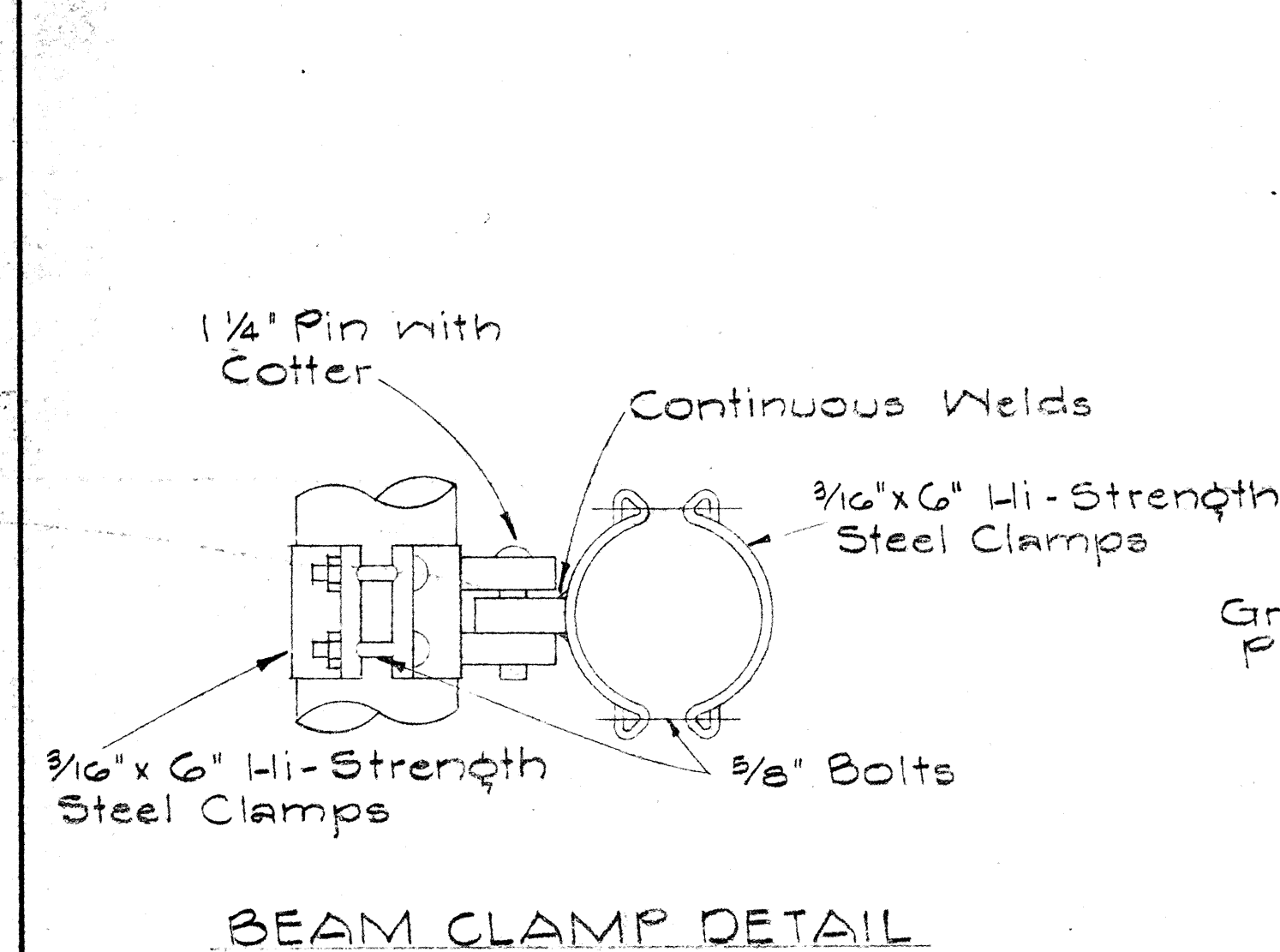
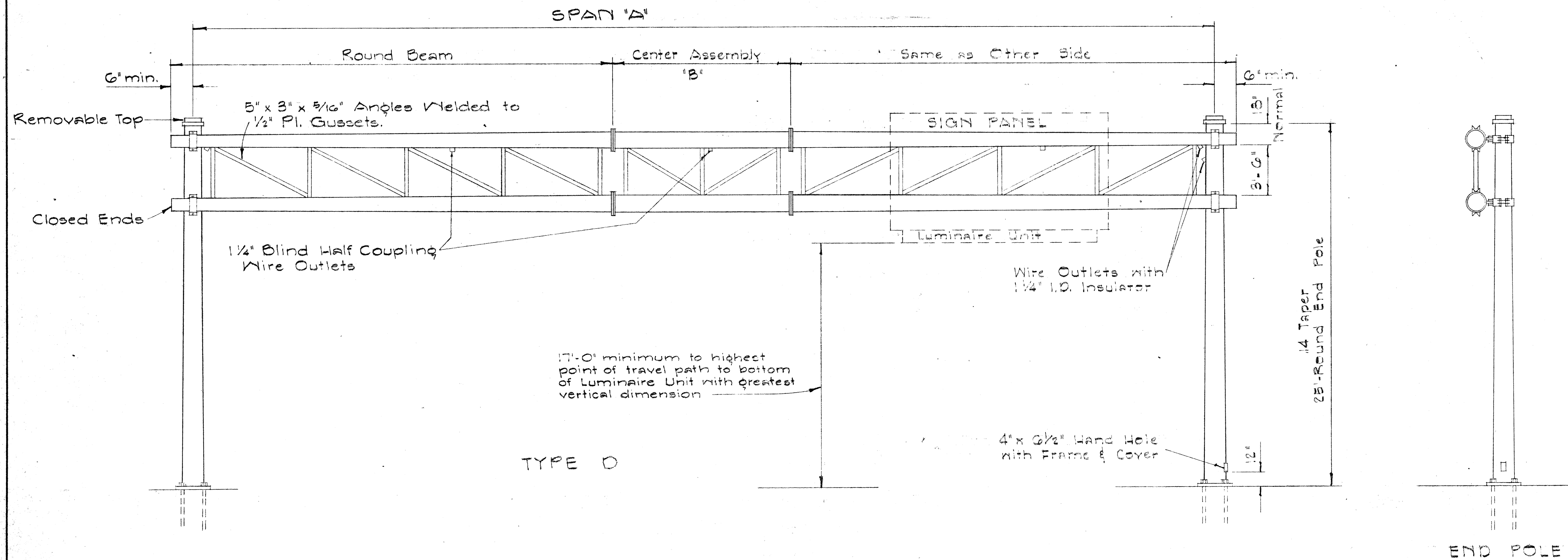
INTERSTATE ROUTE H-1
F.A.I. Proj. I-HI-1(19)

Scale: 3/16" = 1'-0" December 1965

SHEET No. 13 OF 30 SHEETS

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

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(19)	1966	45	65



STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

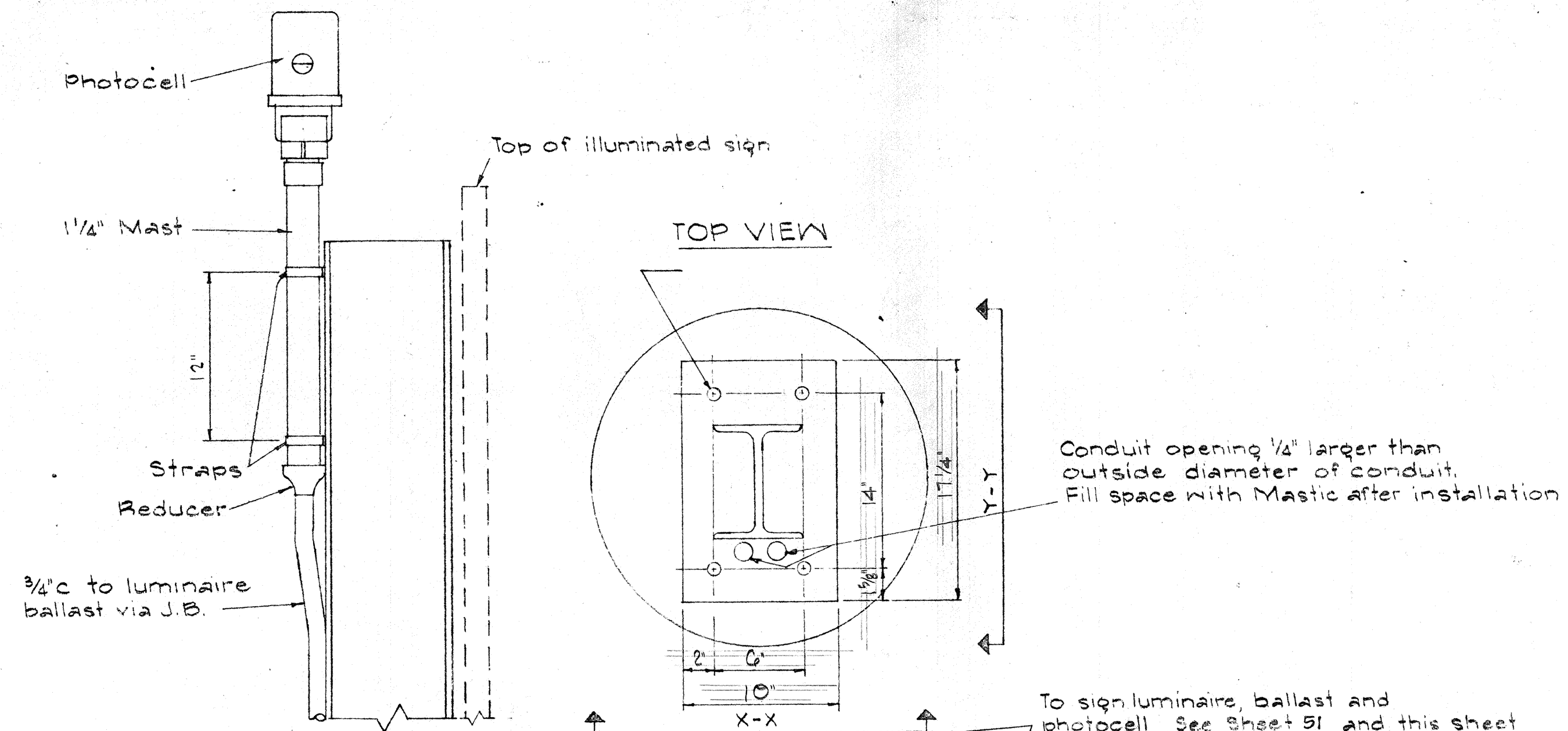
TYPE D
OVERHEAD SIGN SUPPORT
TWO-TUBE TRUSS TYPE
STEEL
INTERSTATE ROUTE H-1
F.A.I. Proj I-HI-1(19)

Not to Scale December 1965

SHEET No. 14 OF 30 SHEETS

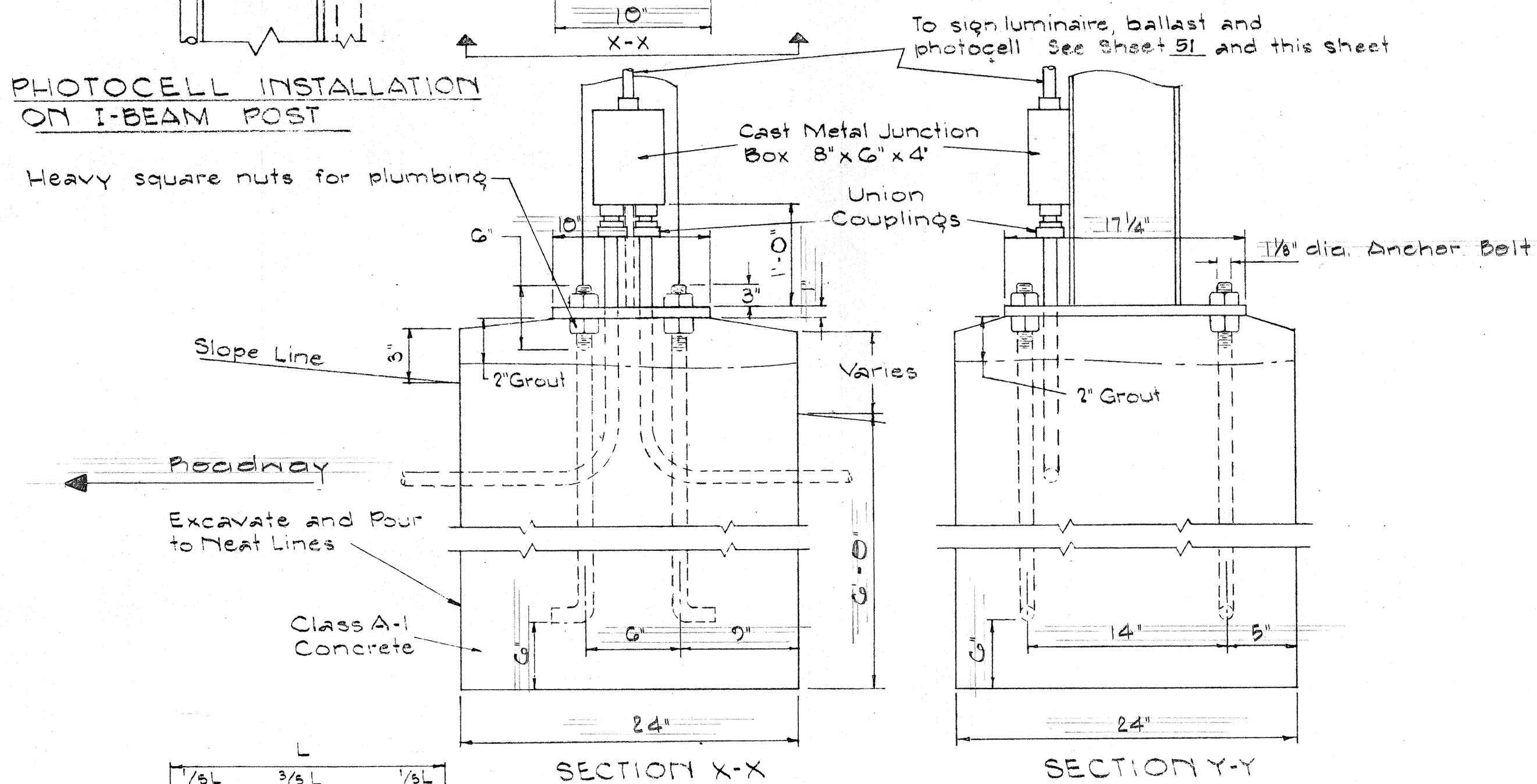
DATE	
SURVEY PLOTTED BY	
DRAWN BY	
TRACED BY	
QUANTITIES BY	
CHECKED BY	
ORIGINAL PLAN	
NOTE BOOK	
No.	

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(19)	1966	44	65



PHOTOCELL INSTALLATION ON I-BEAM POST

Heavy square nuts for plumbing

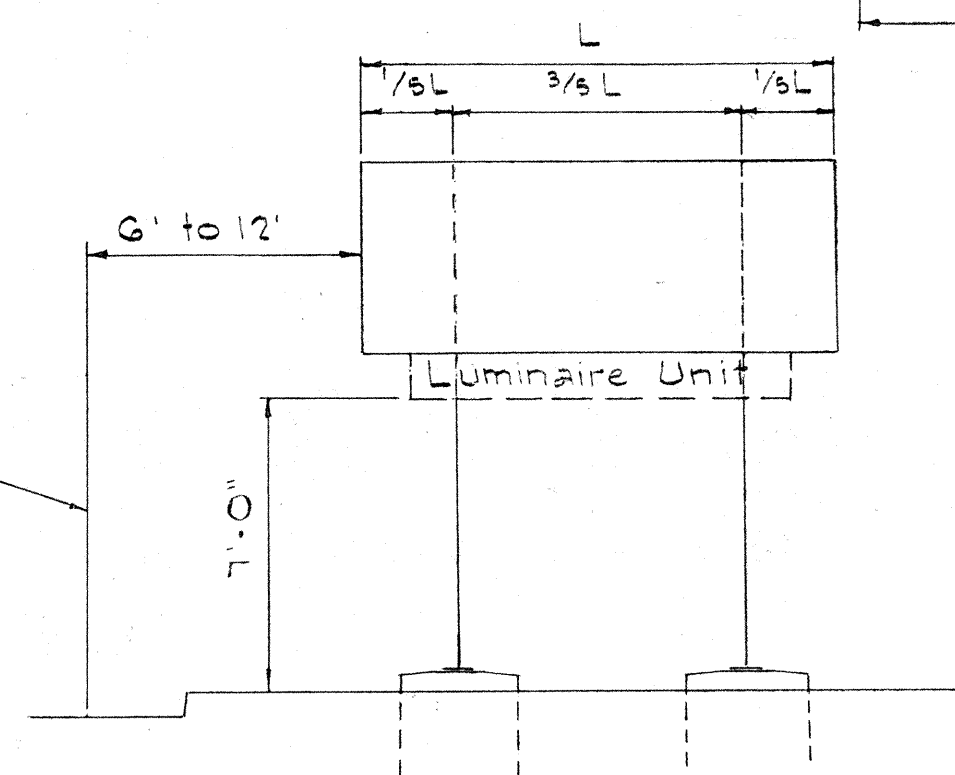


FOUNDATION DETAILS FOR GROUND MOUNTED EXPRESSWAY SIGN EXTRUDED ALUMINUM TYPE VI FOOTING

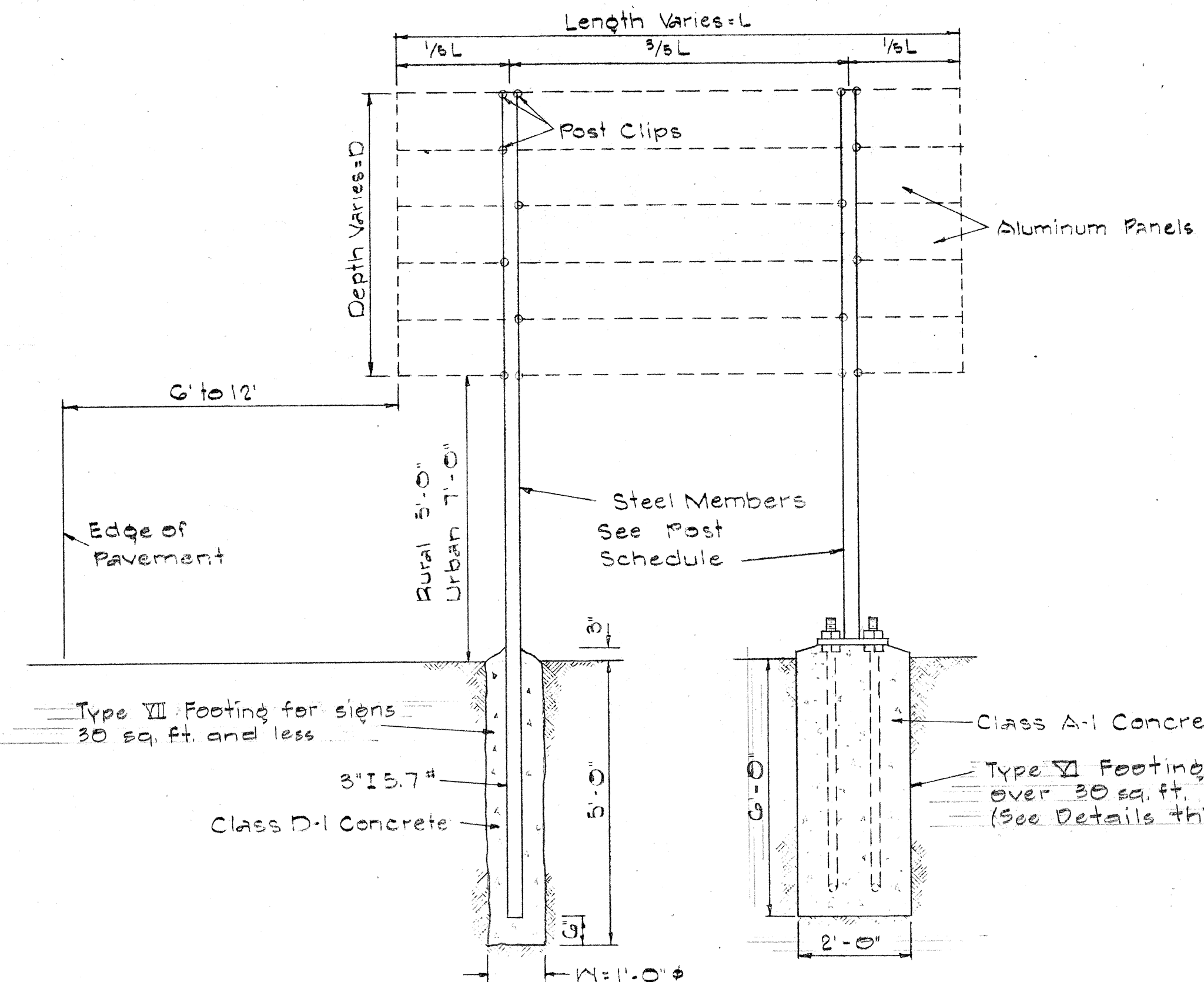
NOTE

Conduit and ballast details are shown only for ground mounted illuminated Expressway signs.

Edge of Pavement



TYPICAL GROUND MOUNTED EXPRESSWAY SIGN TYPE A



TYPICAL DESTINATION SIGN PANEL & POST

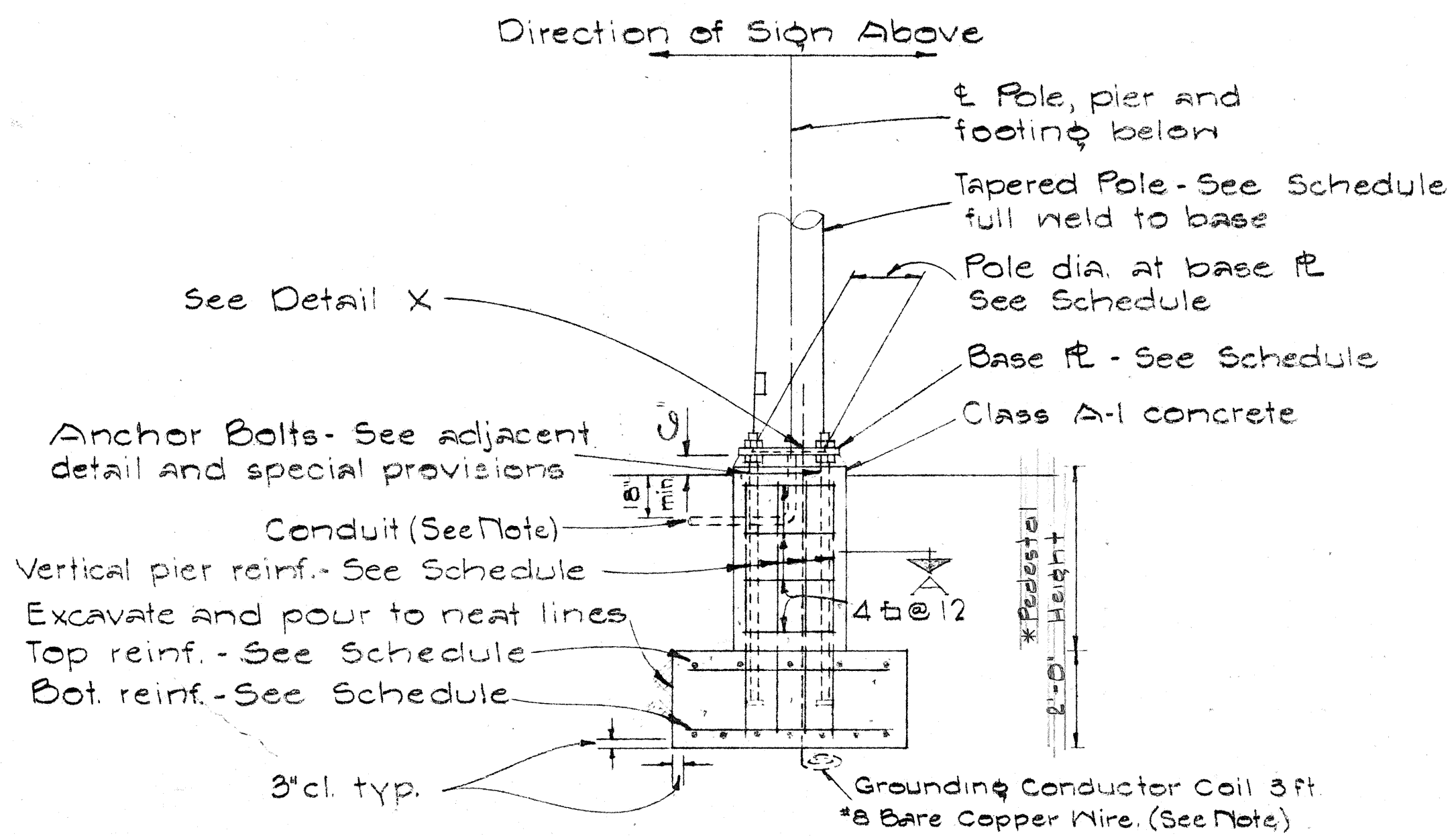
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**DESTINATION AND EXPRESSWAY SIGNS
DETAILS & SCHEDULES
TYPE VI FOOTING**

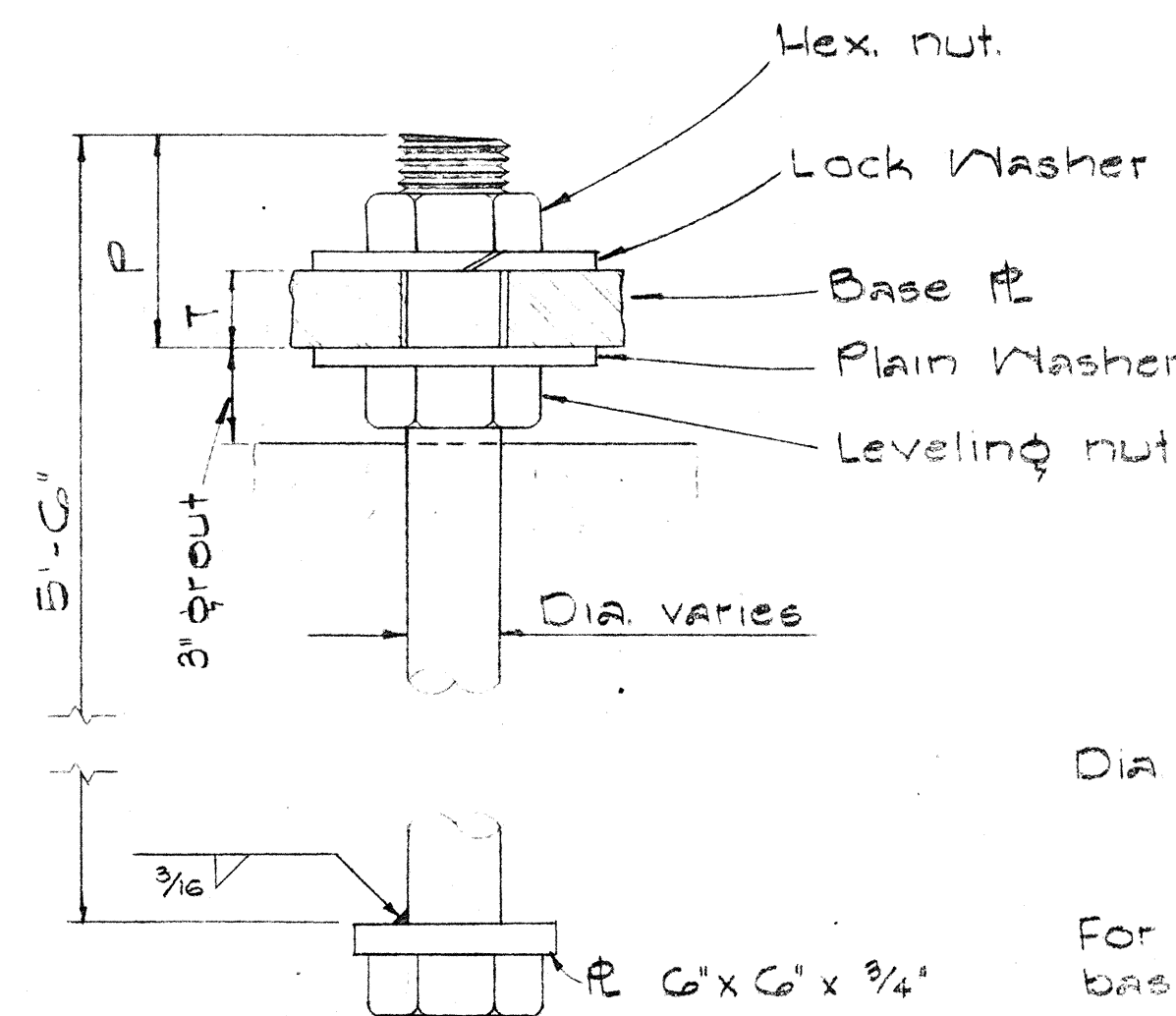
INTERSTATE ROUTE H-1
F.A.I. Proj. I-HI-1(19)

Not to Scale December 1965
SHEET No. 15 OF 30 SHEETS

ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	

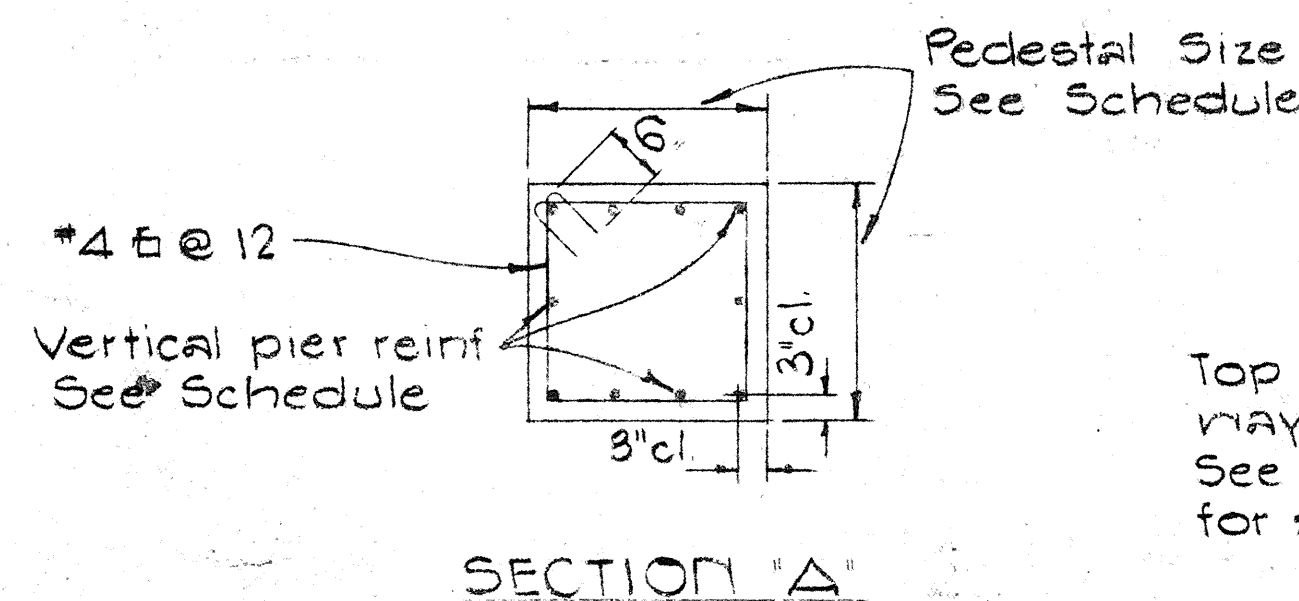


TYPICAL POLE FOUNDATION DETAIL



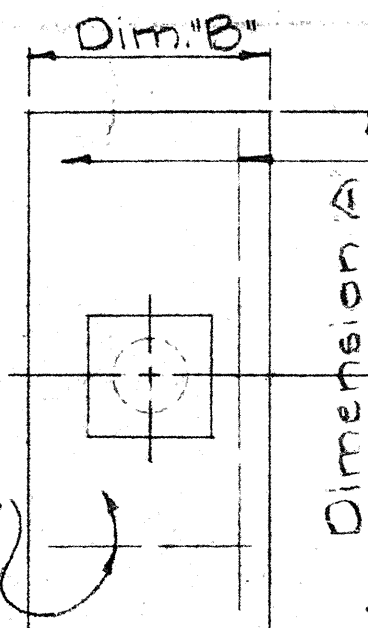
TYPICAL ANCHOR BOLT 4 REG'D

- *1 In cut sections, pedestal shall be minimum 3'-0" in height
 *2 In fill sections, pedestal shall be high enough to allow footing to rest on firm, undisturbed ground.



SECTION 'A'

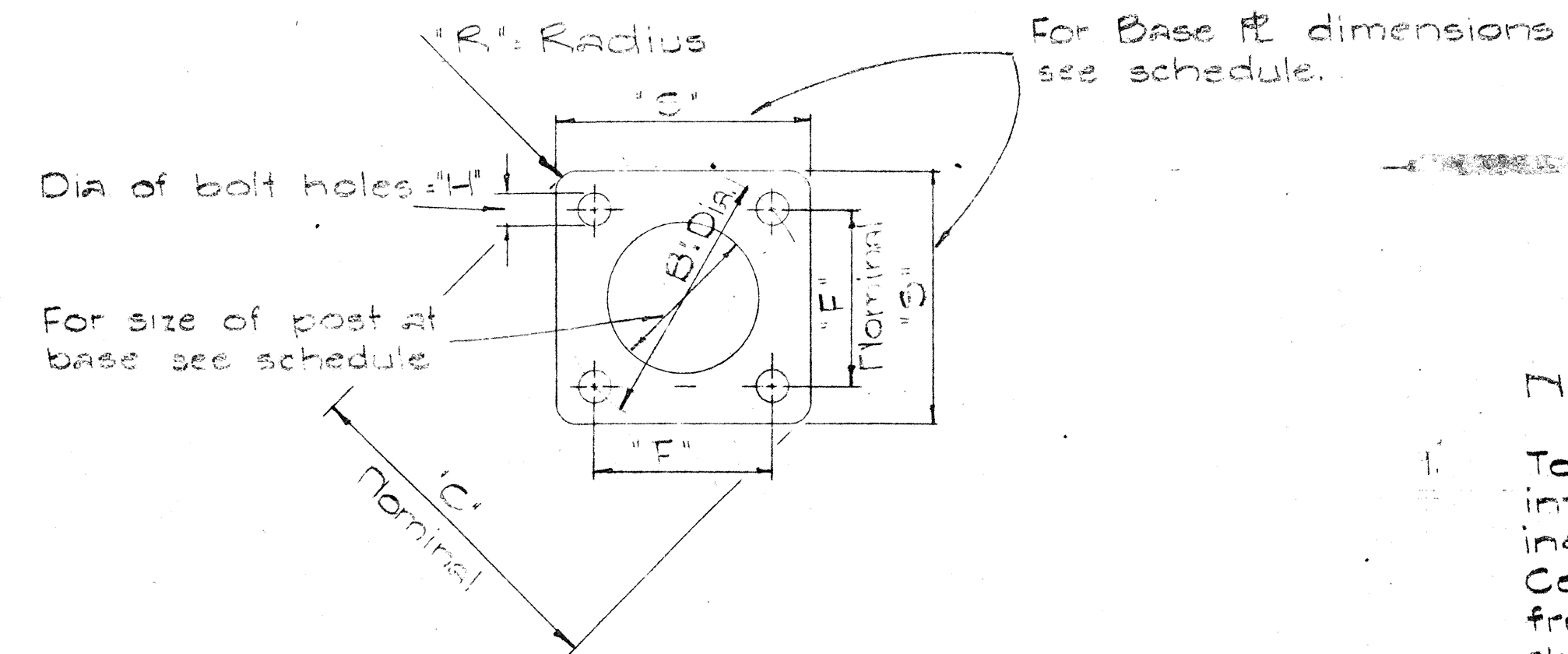
Top & bot short ways (SW) reinf. See Schedule for size and no.



TYPICAL FOOTING PLAN

*4 @ 12
 Vertical pier reinf. See Schedule

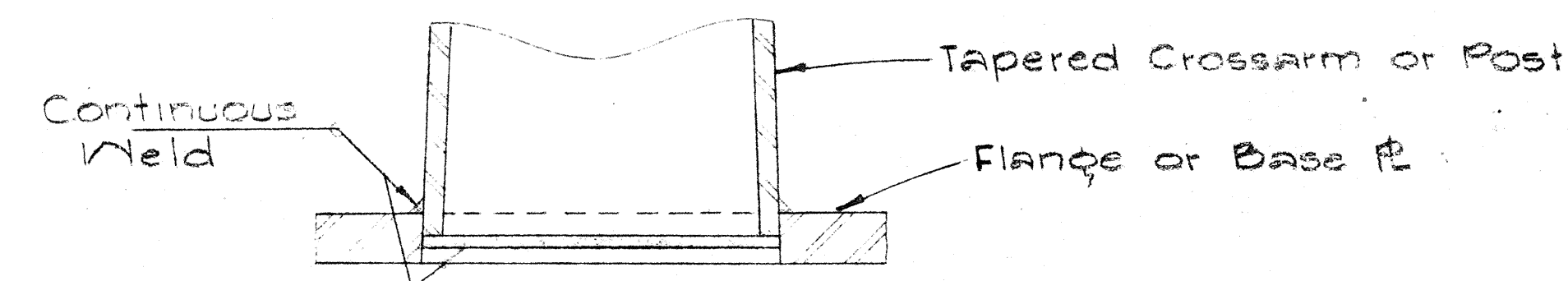
BASE		PLATE		SCHEDULE						Bolt Dia.
Gage No.	Post Dia.	B	C	F	H	P	R	S	T	
7-7	16	23 1/2	30 1/2	16 5/8	2 3/8	6	5	24 1/2	2 1/2	2 1/2



TYPICAL BASE PLATE

NOTE:

- Total number of conduits into pole foundation as indicated on lighting plans. Conduits shall slope away from pole foundation. Conduit shall stub out 3'-0" min. for direct burial entry.
- Grounding conductor shall be bonded to sign support.



DETAIL 'X'

FOUNDATION SCHEDULE									
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-#4	8-#4	*4 @ 12 Each Way		1'-11"	10-#5
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-#5	13-#4	Do.		2'-9"	10-#10
V	14'-0"	7'-0"	2'-0"	8-#11	15-#4	Do.		2'-9"	10-#11

OVERHEAD MOUNTED EXPRESSWAY SIGN

TYPE D - TWO TUBE TRUSS - SPAN

Sign No.	Station	Cross Beams	Center Section	Post Dimension	Base Plate	Footing	
						Type	Anchor Bolts
E-3	# 58+00	3ga. 14.25" x 30'-3"	None	2ply. 7ga. 16" x 25'-0"	24 1/2" x 2 1/2" x 24 1/2"	IV	IV 4 @ 2 1/4" #

GROUND MOUNTED - DESTINATION SIGNS						
Sign No.	Station	Steel Members		Base Plate	Footing	
		Left	Right		Type	Anchor Bolts
D-1	# 67+50	8 WF 24		17 1/2" x 10" x 1"	VI	4 @ 1 1/2" #
D-2	# 73+00	8 WF 24		17 1/2" x 10" x 1"	VI	4 @ 1 1/2" #
D-3	Makalea 11+00	6 J 8.5		17 1/2" x 10" x 1"	VI	4 @ 1 1/2" #
D-4	Makalea 2+50	3 I 5.7		None	VII	None
D-5	# 143+00	8 WF 17		17 1/2" x 10" x 1"	VI	4 @ 1 1/2" #
D-6	# 169+00	8 WF 24		17 1/2" x 10" x 1"	VI	4 @ 1 1/2" #
D-7	# 212+05	8 WF 24		17 1/2" x 10" x 1"	VI	4 @ 1 1/2" #
D-8	# 281+05	8 J 10		17 1/2" x 10" x 1"	VI	4 @ 1 1/2" #
D-9	Pump PA 10+50	8 J 10		17 1/2" x 10" x 1"	VI	4 @ 1 1/2" #
D-10	Hunia 104+00	3 I 5.7		None	VII	None
D-11	Hunia 98+00	8 J 10		17 1/2" x 10" x 1"	VI	4 @ 1 1/2" #

GROUND MOUNTED - EXPRESSWAY SIGNS						
Sign No.	Station	Steel Members		Base Plate	Footing	
		Left	Right		Type	Anchor Bolts
E-1	# 49+30	8 J 10		17 1/2" x 10" x 1"	VI	4 @ 1 1/2" #
E-2	# 54+50	8 WF 35		17 1/2" x 10" x 1"	VI	4 @ 1 1/2" #
E-4	Pump MC 10+00	8 WF 17		17 1/2" x 10" x 1"	VI	4 @ 1 1/2" #
E-5	# 108+50	8 J 10		17 1/2" x 10" x 1"	VI	4 @ 1 1/2" #
E-6	# 115+00	8 WF 24		17 1/2" x 10" x 1"	VI	4 @ 1 1/2" #
E-7	# 310+05	8 WF 17		17 1/2" x 10" x 1"	VI	4 @ 1 1/2" #
E-8	Hunia 4+50	8 J 10		17 1/2" x 10" x 1"	VI	4 @ 1 1/2" #
E-9	# 321+05	8 J 10		17 1/2" x 10" x 1"	VI	4 @ 1 1/2" #

STATE OF HAWAII
 DEPARTMENT OF TRANSPORTATION
 HIGHWAYS DIVISION

DESTINATION AND EXPRESSWAY SIGNS

DETAILS & SCHEDULES

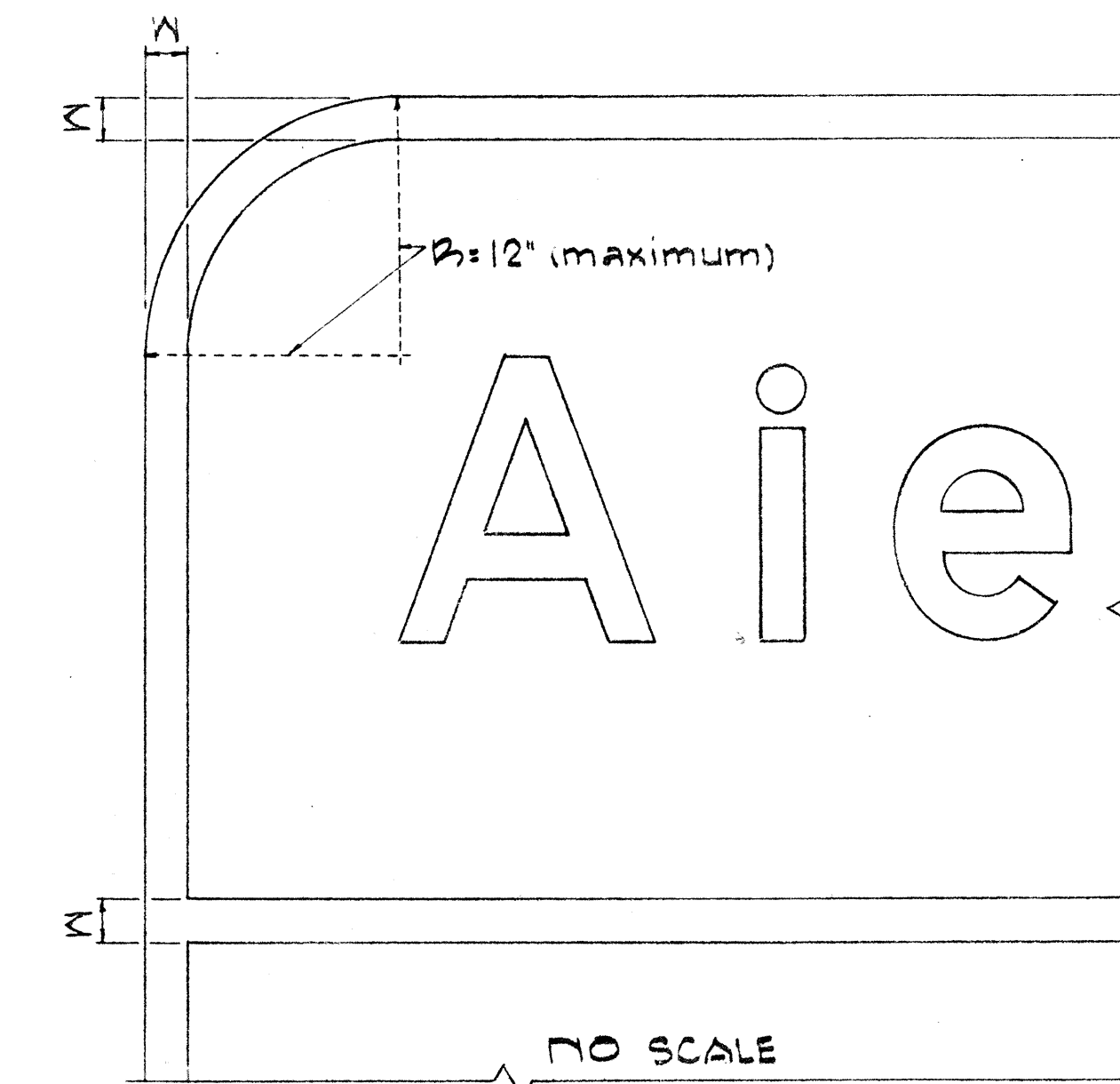
INTERSTATE ROUTE H-1
 F.A.I. Proj. I-HI-1(19)
 Not to Scale December 1965

SHEET No. 16 OF 30 SHEETS

ORIGINAL PLAN
 SURVEY PLOTTED BY
 DRAWN BY
 TRACED BY
 QUANTITIES BY
 CHECKED BY
 No.

GENERAL NOTES

1. State Route Markers on Destination & Expressway signs shall have black numerals and borders on a white reflectorized background mounted on a flat Aluminum cut-out.
2. All numerals shall be Series 'D' from the "Standard Alphabets for Highway Signs," Bureau of Public Roads, 1957.
3. All Cut-outs shall be fastened on sign panel with Aluminum blind rivets. See Special Provisions.



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

RADIi FOR EXPRESSWAY SIGNS (2" Border)		
Least Dimension of Sign	W	R
3'-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"
RADIi FOR DESTINATION SIGNS (1" Border)		
Least Dimension of Sign	W	R
Any Size	1"	3"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

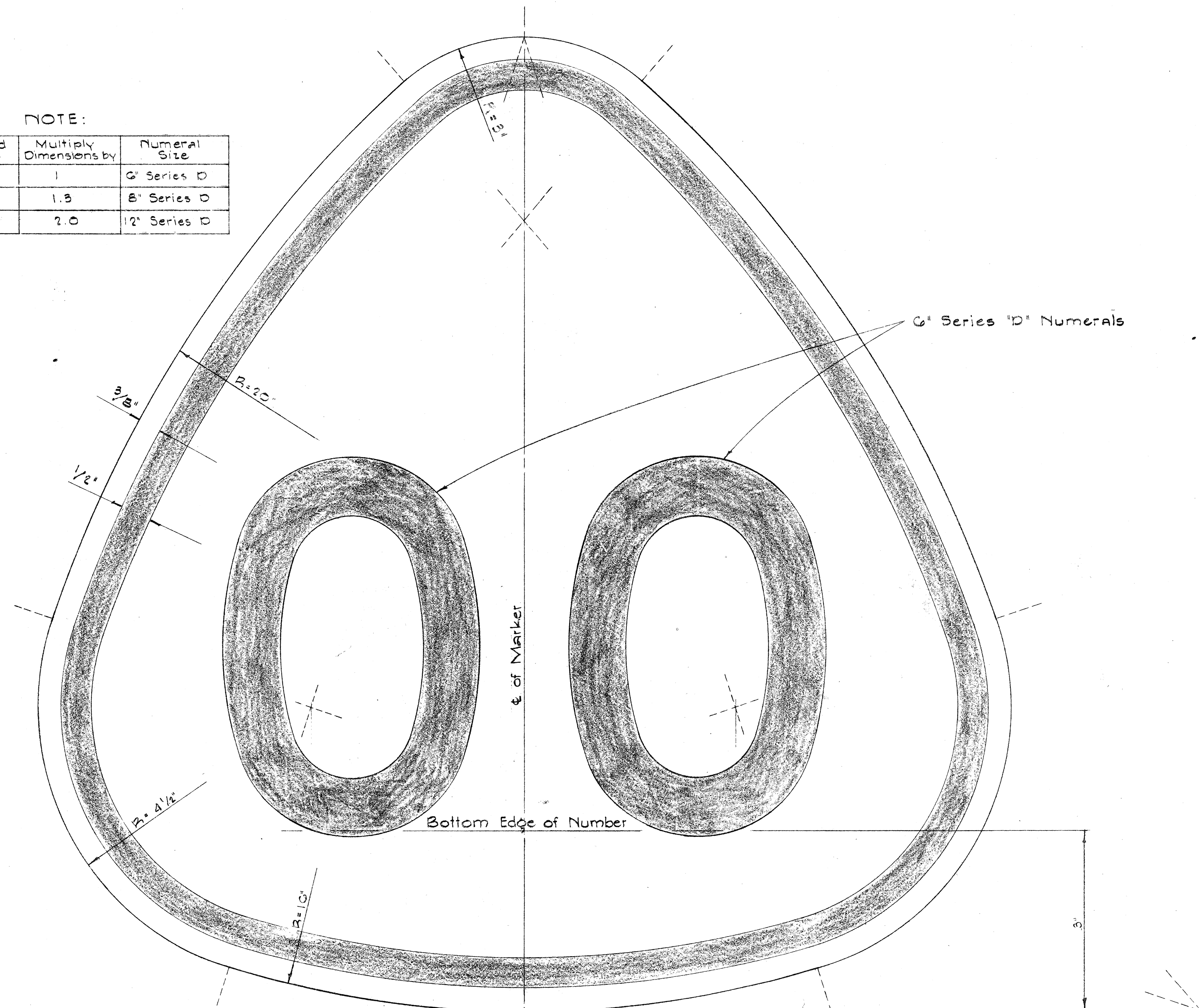
DESTINATION AND EXPRESSWAY SIGNS
STATE ROUTE MARKER
AND BORDER DETAILS

INTERSTATE ROUTE H-1
F.A.I. Proj. I-HI-1(19)
Scale: As Shown December 1965

SHEET No. 17 OF 30 SHEETS

NOTE:

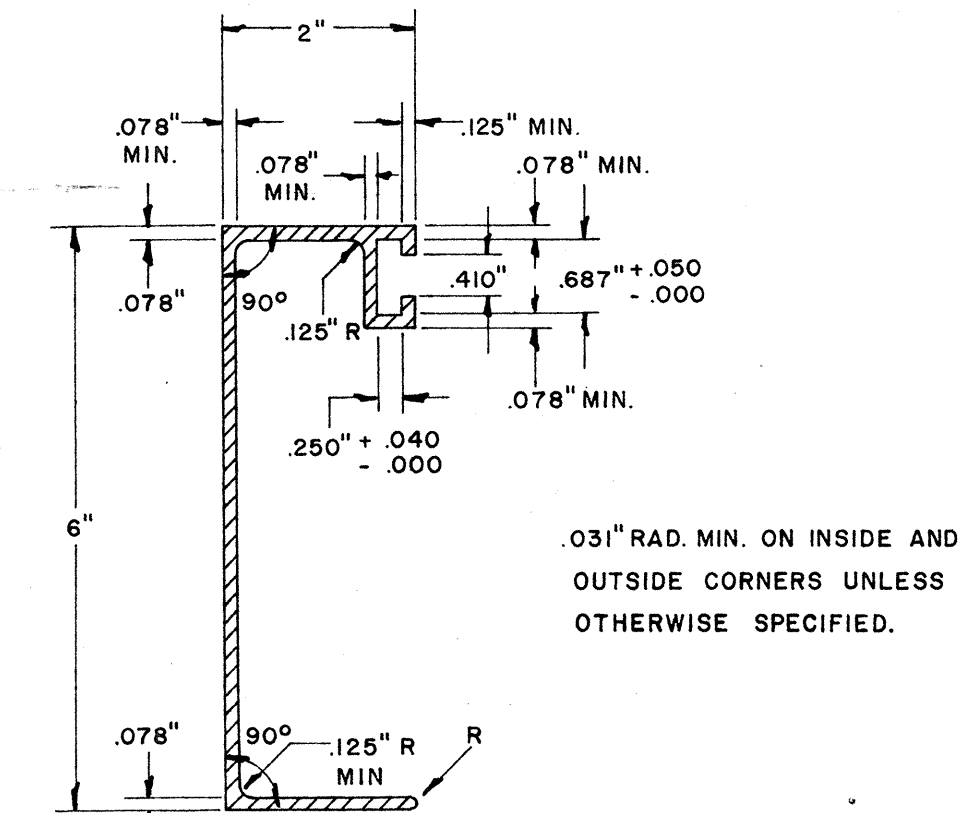
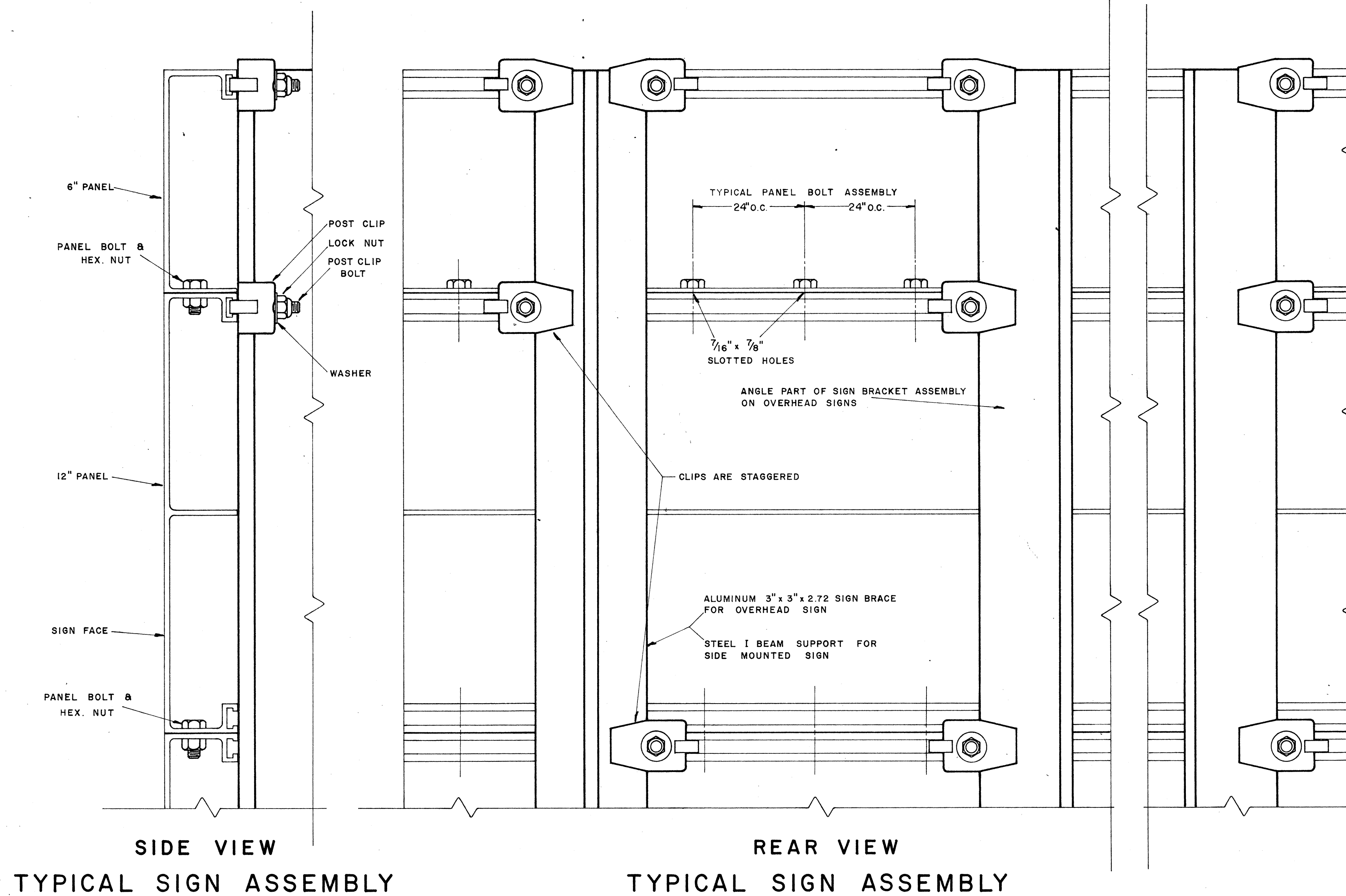
Shield Size	Multiply Dimensions by	Numerical Size
16"	1	6" Series D
21"	1.3	8" Series D
32"	2.0	12" Series D



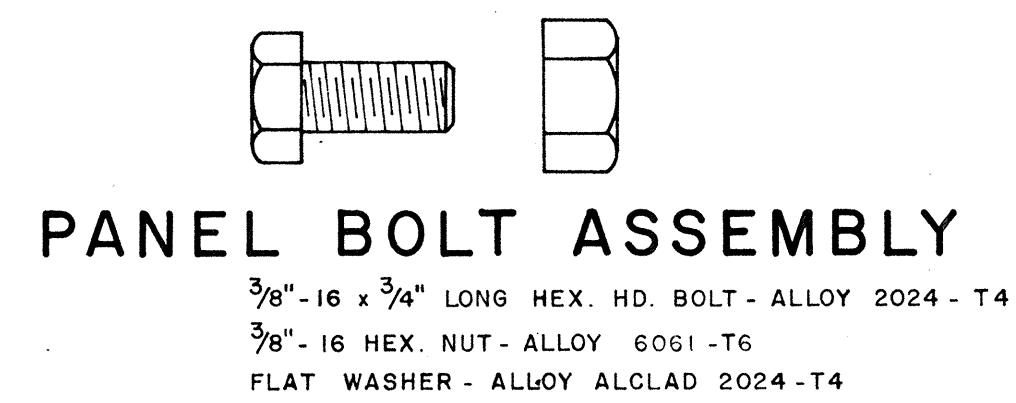
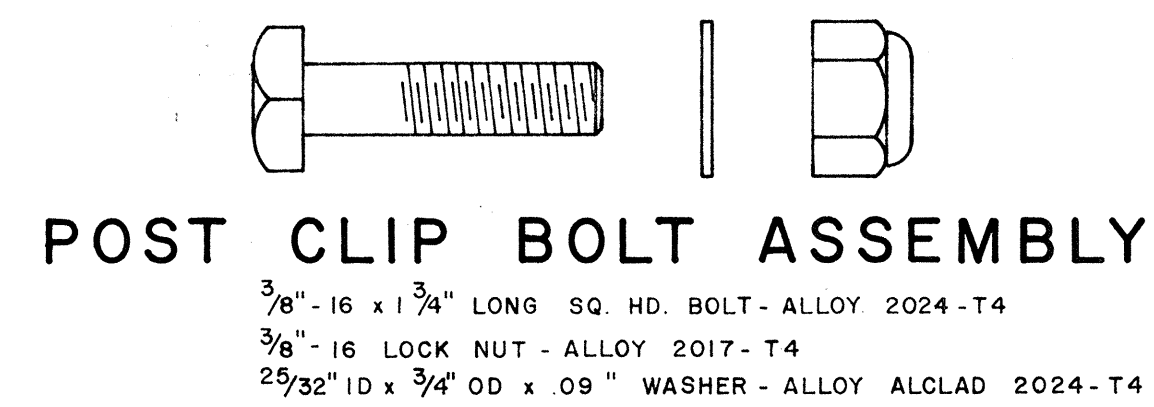
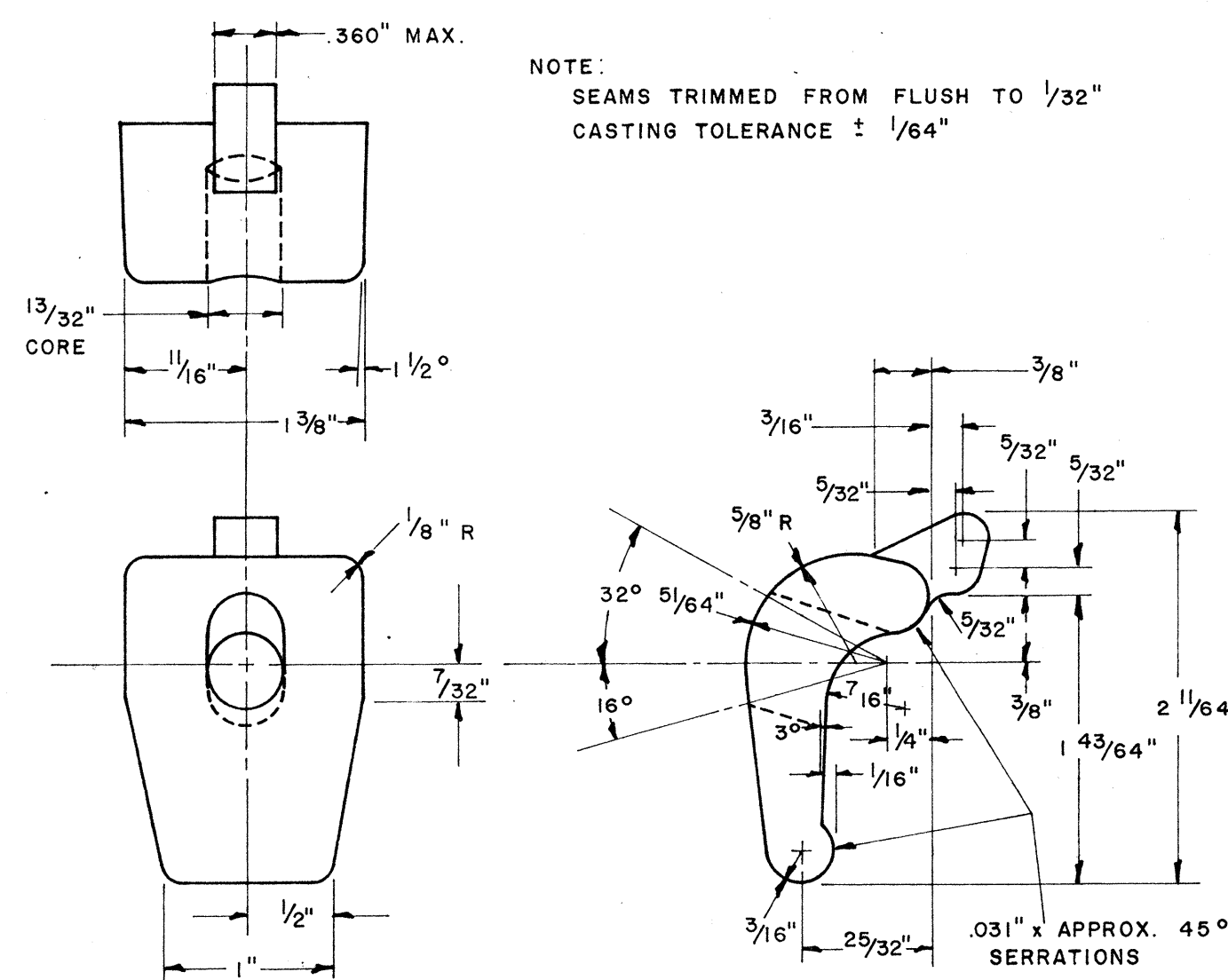
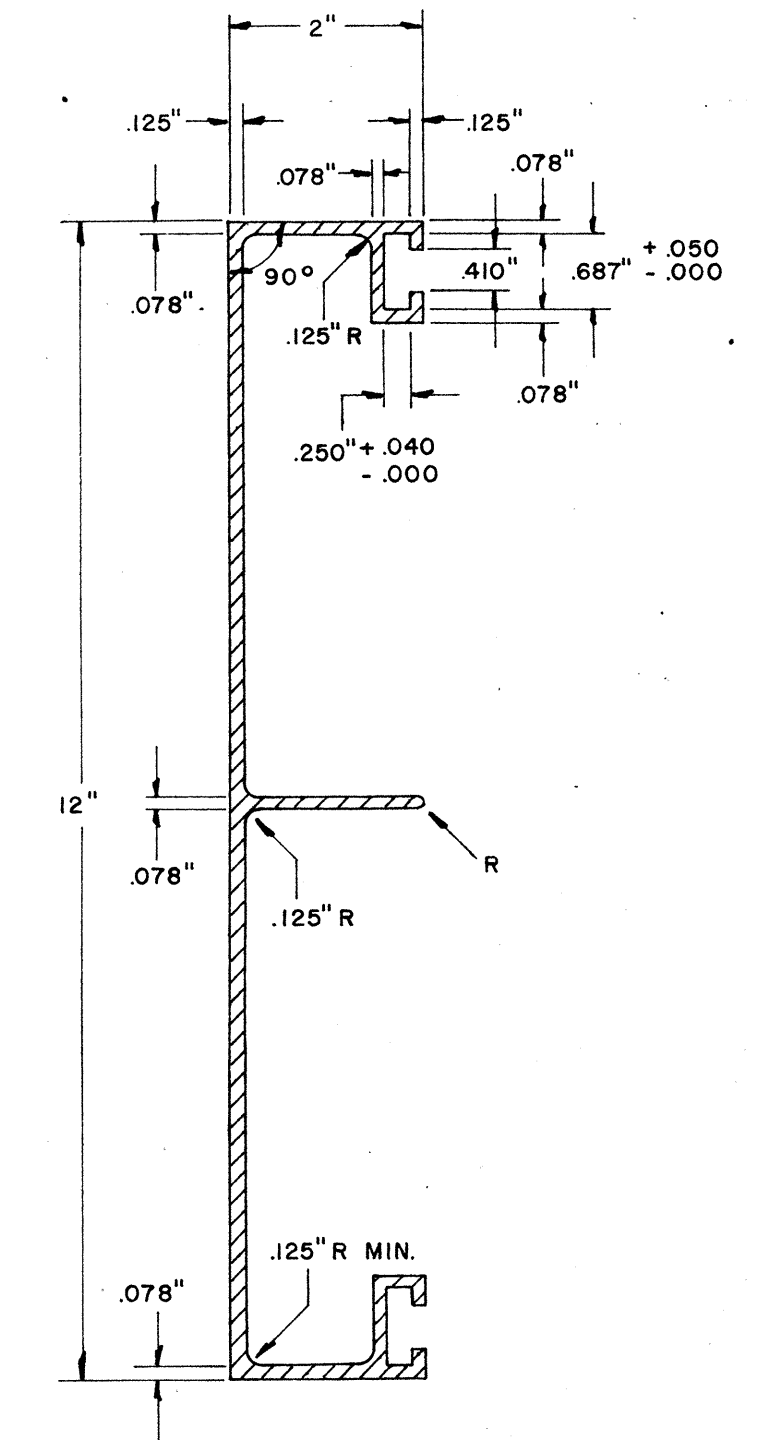
STATE ROUTE MARKER
FOR
DESTINATION & EXPRESSWAY SIGNS
Scale: Full Size

ORIGINAL PLAN
DATE
DESIGNED BY
CHECKED BY
NOTED BY
QUANTITIES BY
No.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-HI-1100	1966	47	65



SOLID EXTRUDED SIGN PANEL DETAILS



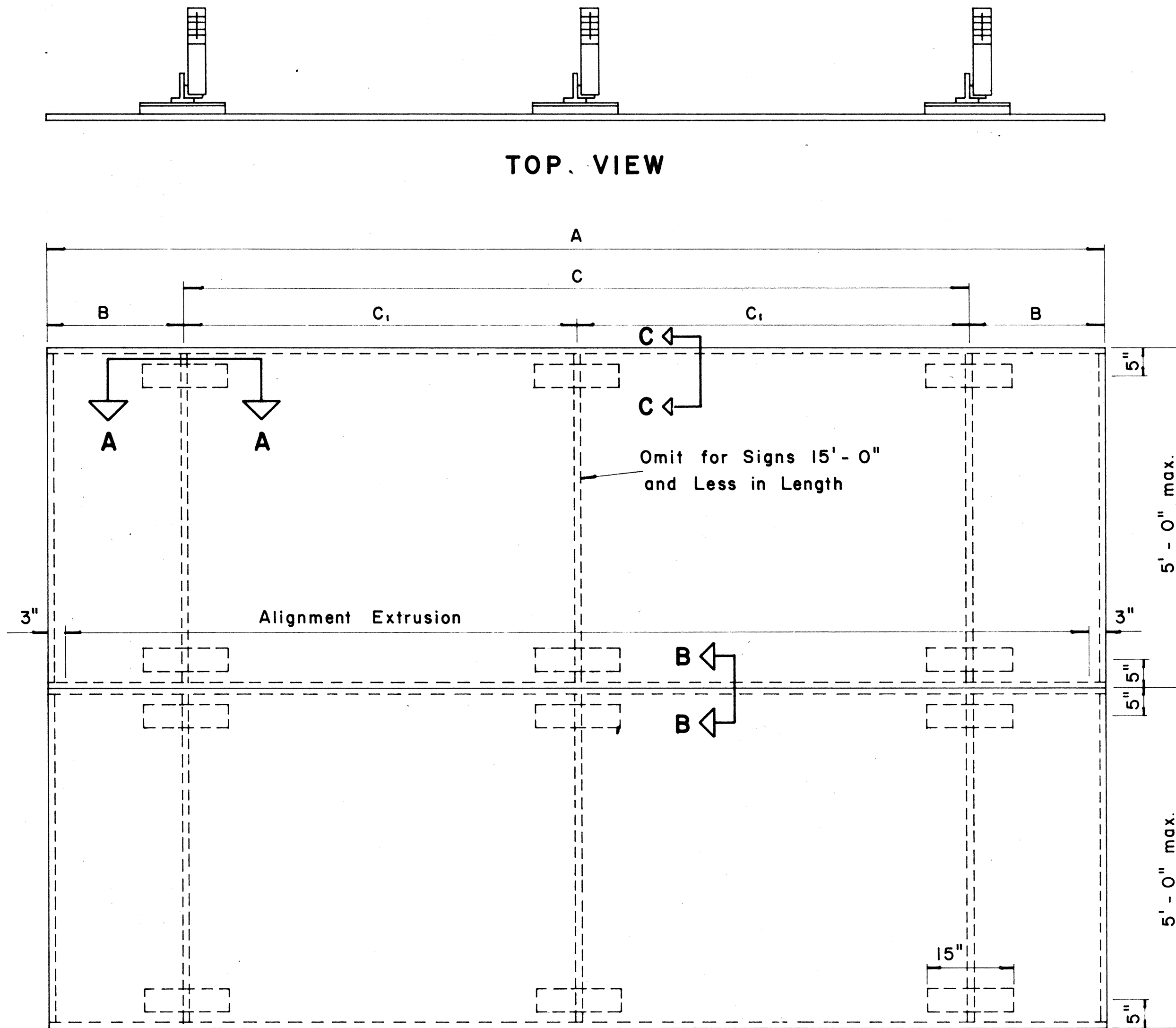
NOTE: EXTRUDED ALUMINUM PANELS SHALL BE USED FOR DESTINATION SIGNS ONLY.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD DETAILS
SOLID ALUMINUM
EXTRUDED SIGN PANEL
AND
ACCESSORY DETAILS
SCALE: Date: Dec. 1965

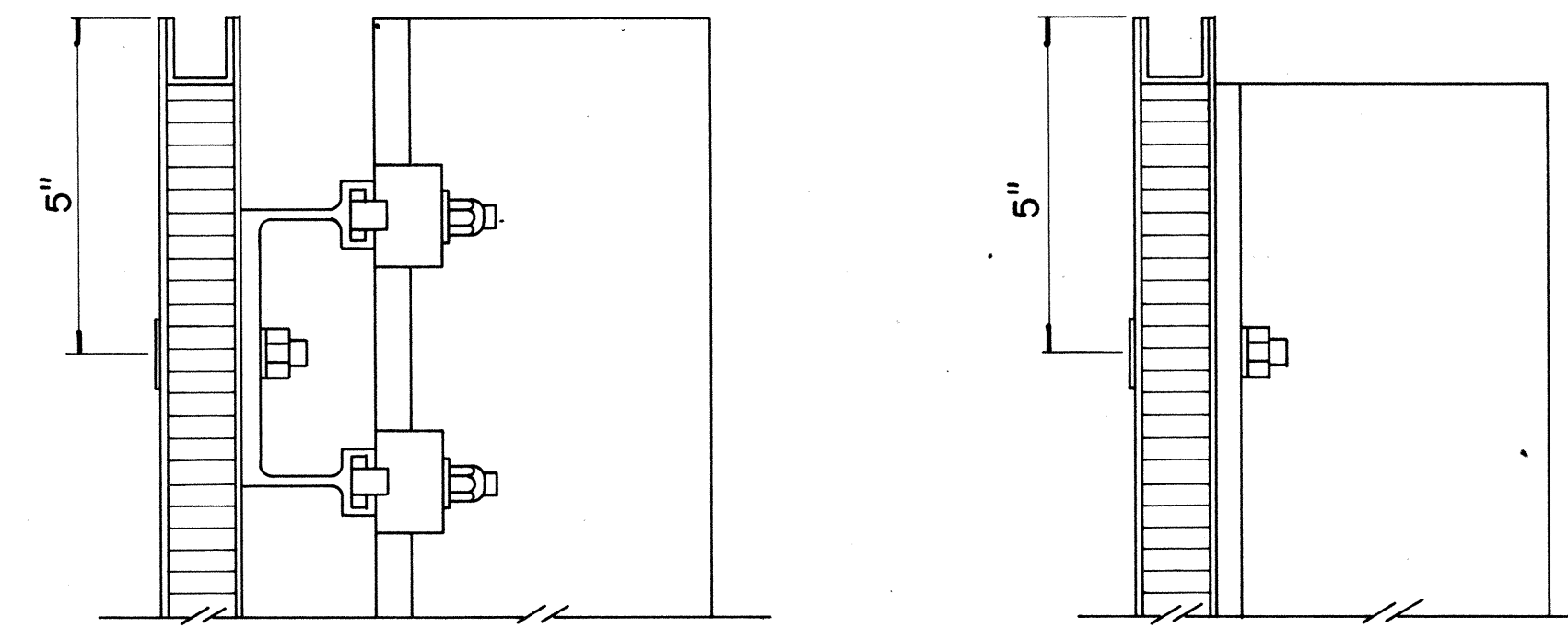
SHEET No. 18 OF 30 SHEETS

(OVERHEAD SIGNS)
SUPPORT SPACING TABLE

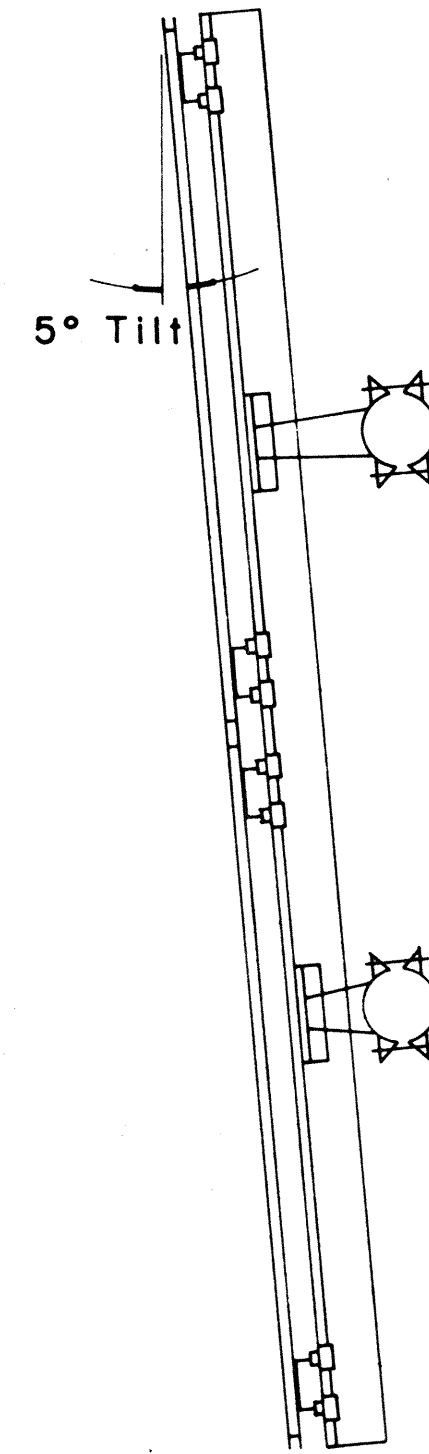
PANEL THICK.	LENGTH OF SIGN A	NO. OF SUPPORTS	OVERHANG B	SUPPORT SPACING C or C ₁
1"	6'-0"	2	12"	48"
1"	6'-6"	2	15"	48"
1"	7'-0"	2	15"	54"
1"	7'-6"	2	18"	54"
1"	8'-0"	2	18"	60"
1"	8'-6"	2	20"	62"
1"	9'-0"	2	22"	64"
1"	9'-6"	2	23"	68"
1"	10'-0"	2	24"	72"
1"	10'-6"	2	24"	78"
1"	11'-0"	2	24"	84"
1"	11'-6"	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"



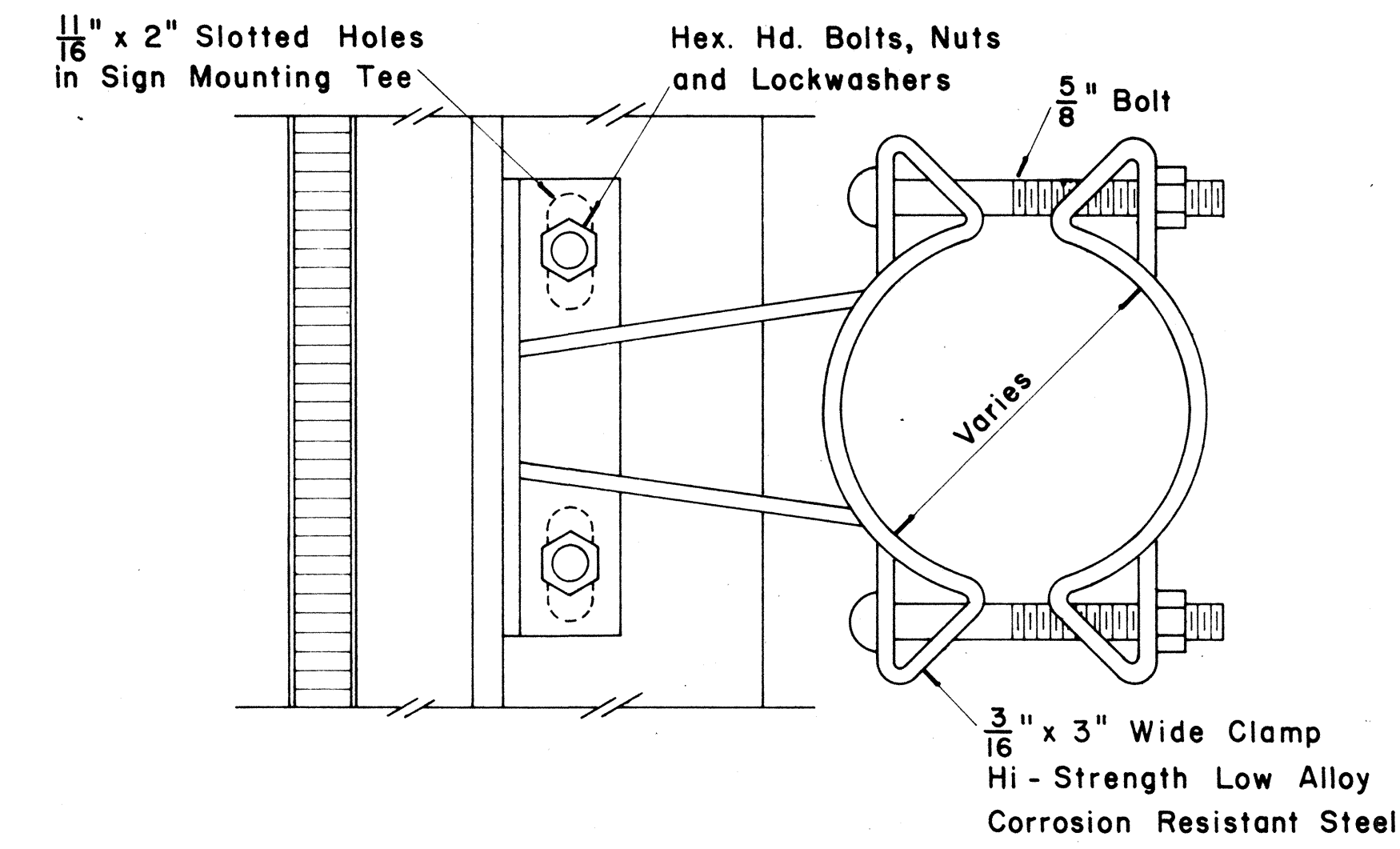
ELEVATION
TYPICAL SIGN ASSEMBLY
Scale: $\frac{3}{4}$ " = 1'-0"



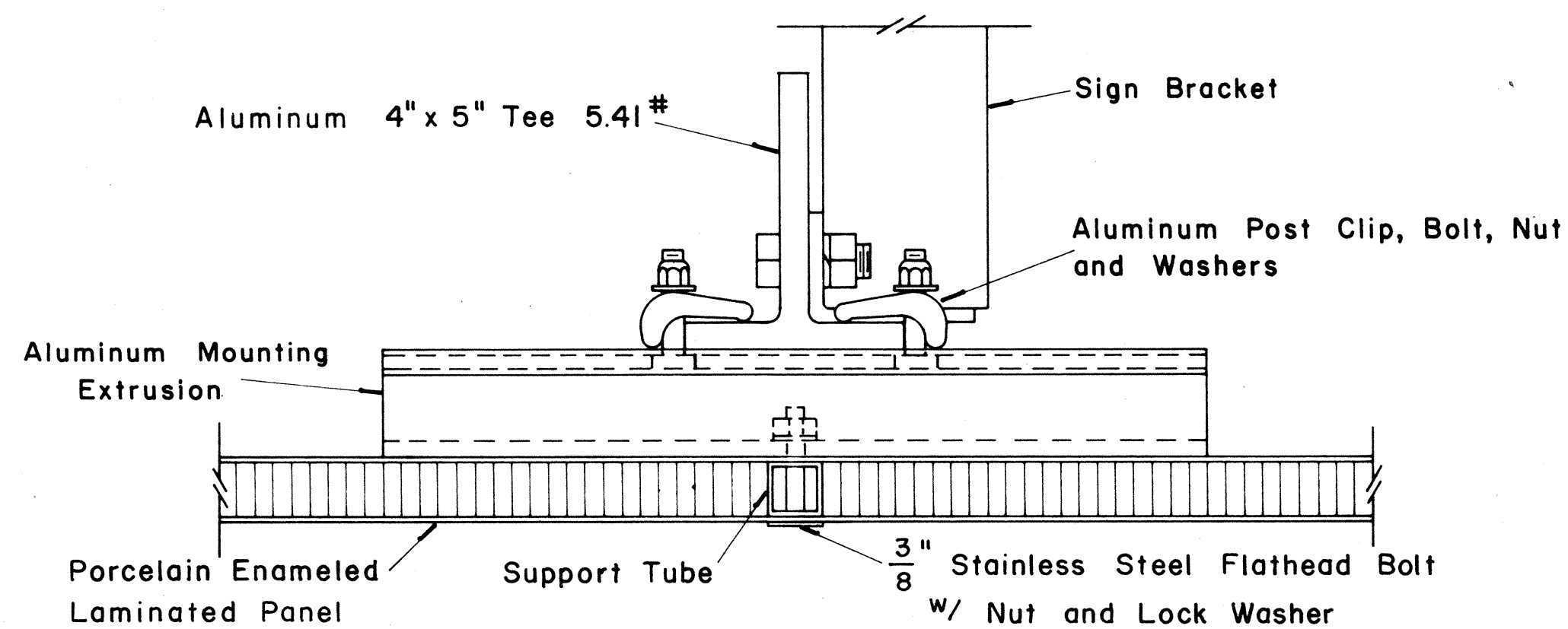
SECTION "C-C"
Scale: $\frac{3}{8}$ " = 1"
SECTION "C-C" (Alternate)
Scale: $\frac{3}{8}$ " = 1"



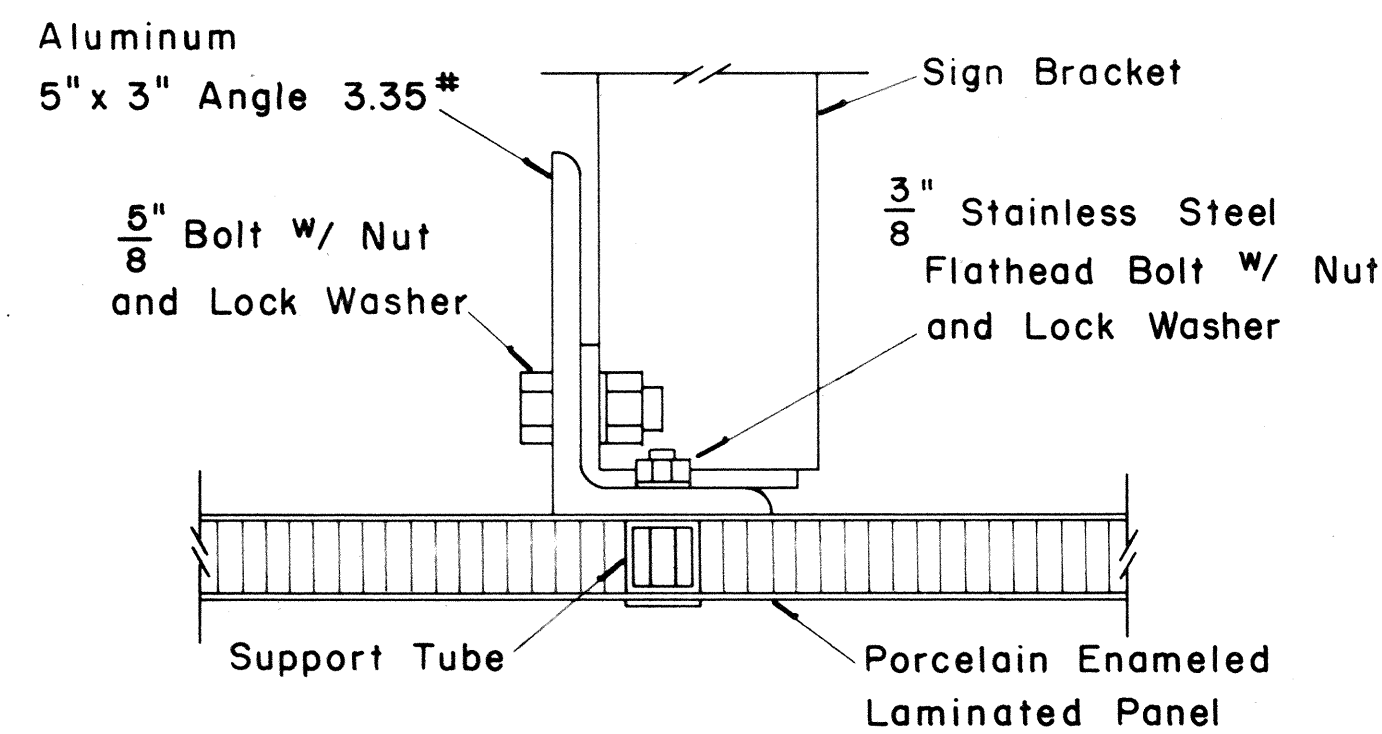
SIDE VIEW



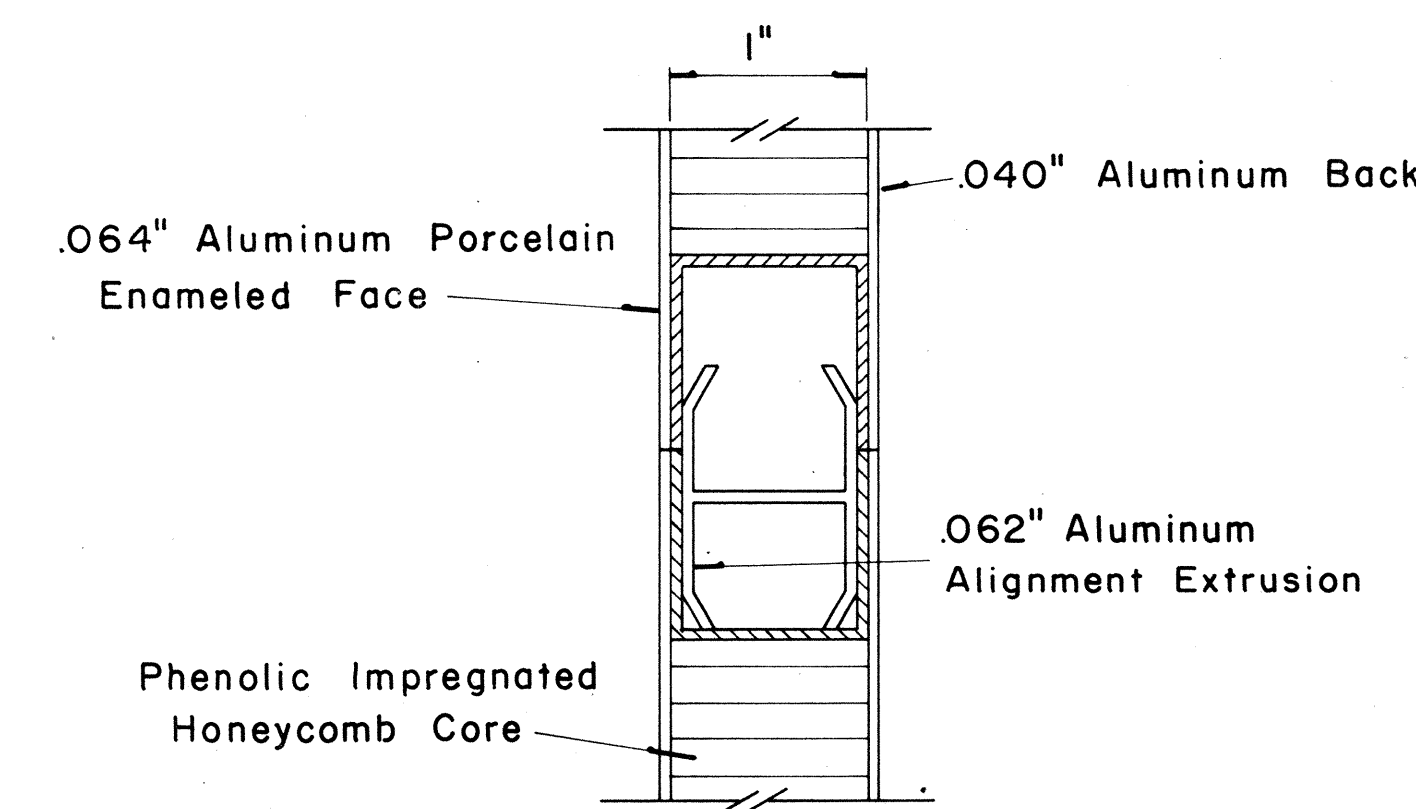
SIGN BRACKET ASSEMBLY
Scale: $\frac{3}{8}$ " = 1"



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



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



CLOSURE DETAIL
SECTION "B-B"
FULL SCALE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
LAMINATED ALUMINUM
SIGN PANELS
(OVERHEAD)

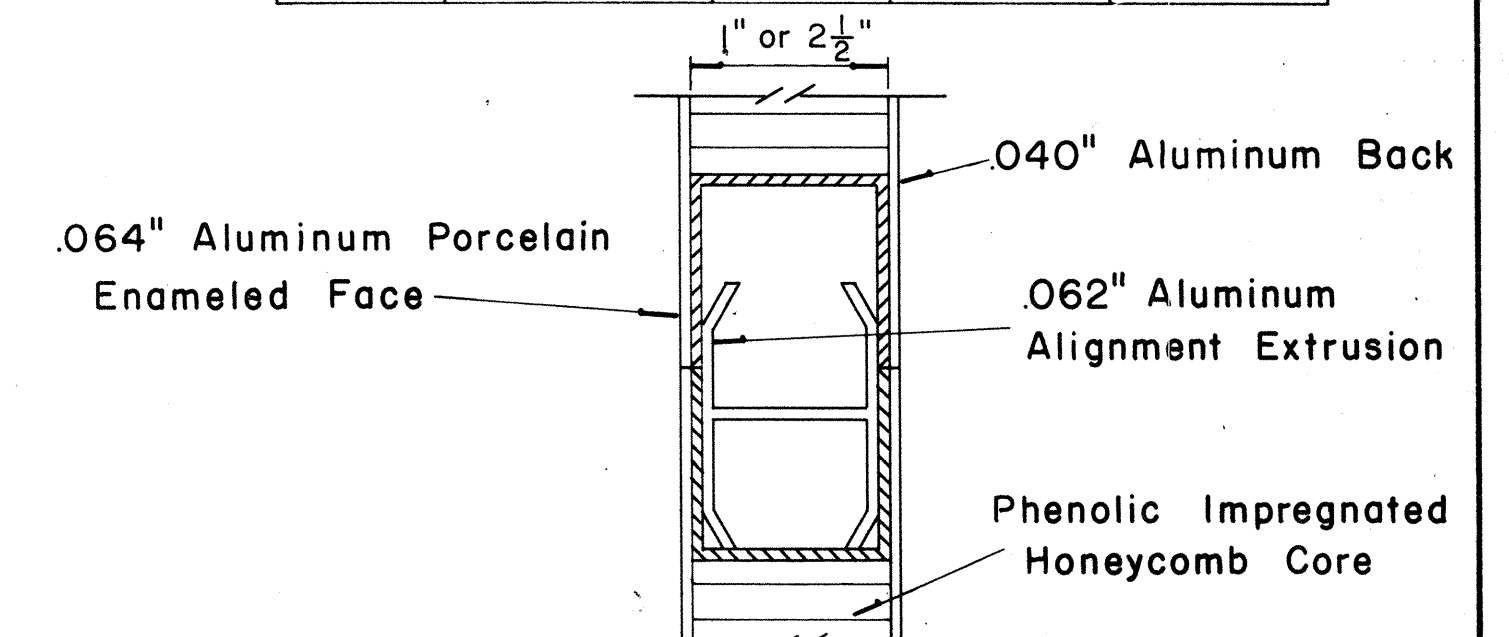
Scale: As Shown Date: Dec. 1965

SHEET No. 10 OF 30 SHEETS

DATE: _____
SURVEY PLOTTED BY: _____
DRAWN BY: _____
CHECKED BY: _____
NOTE BOOK: _____
No. _____

(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"



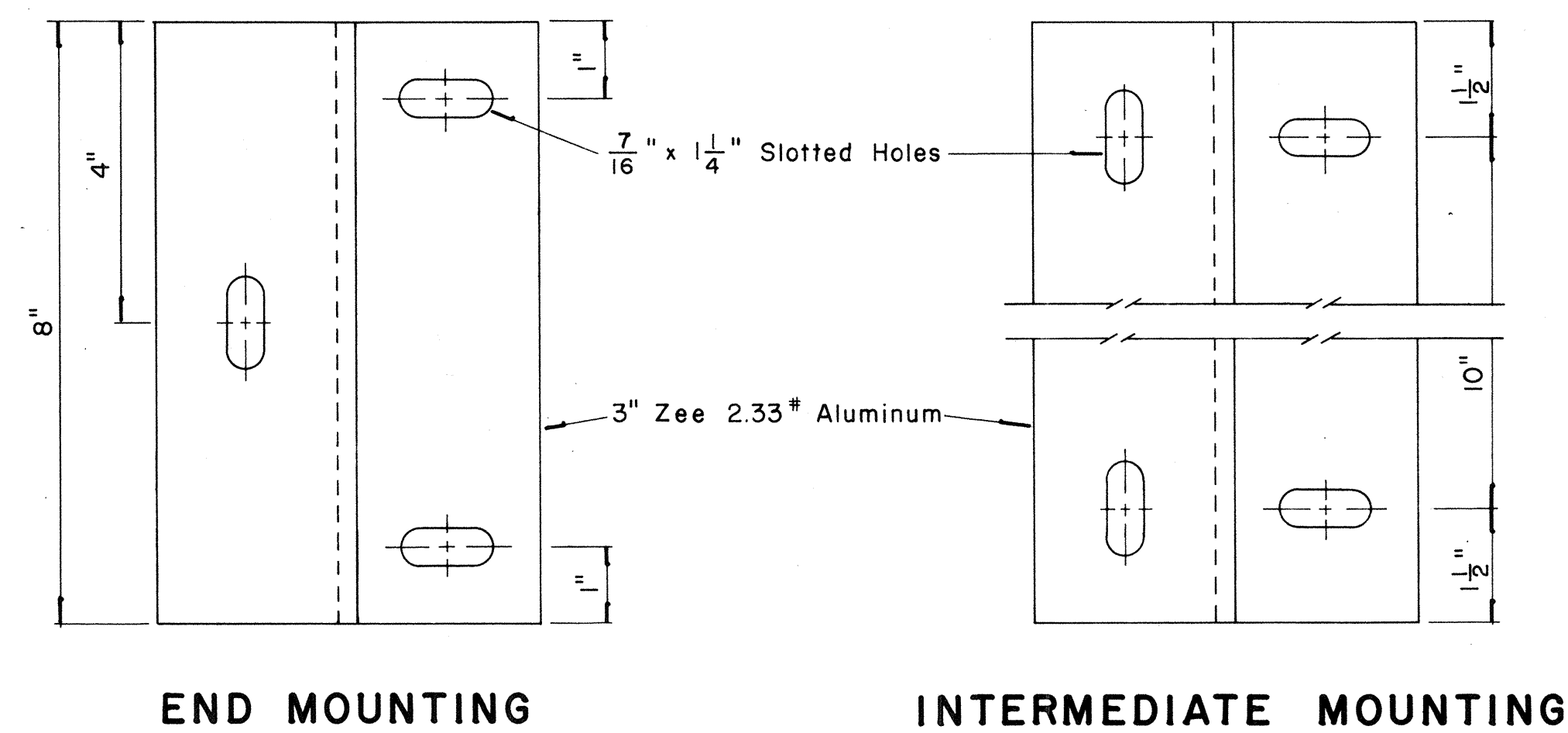
CLOSURE DETAIL
SECTION "C-C"
FULL SCALE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
LAMINATED ALUMINUM
SIGN PANELS
(GROUND MOUNTED)

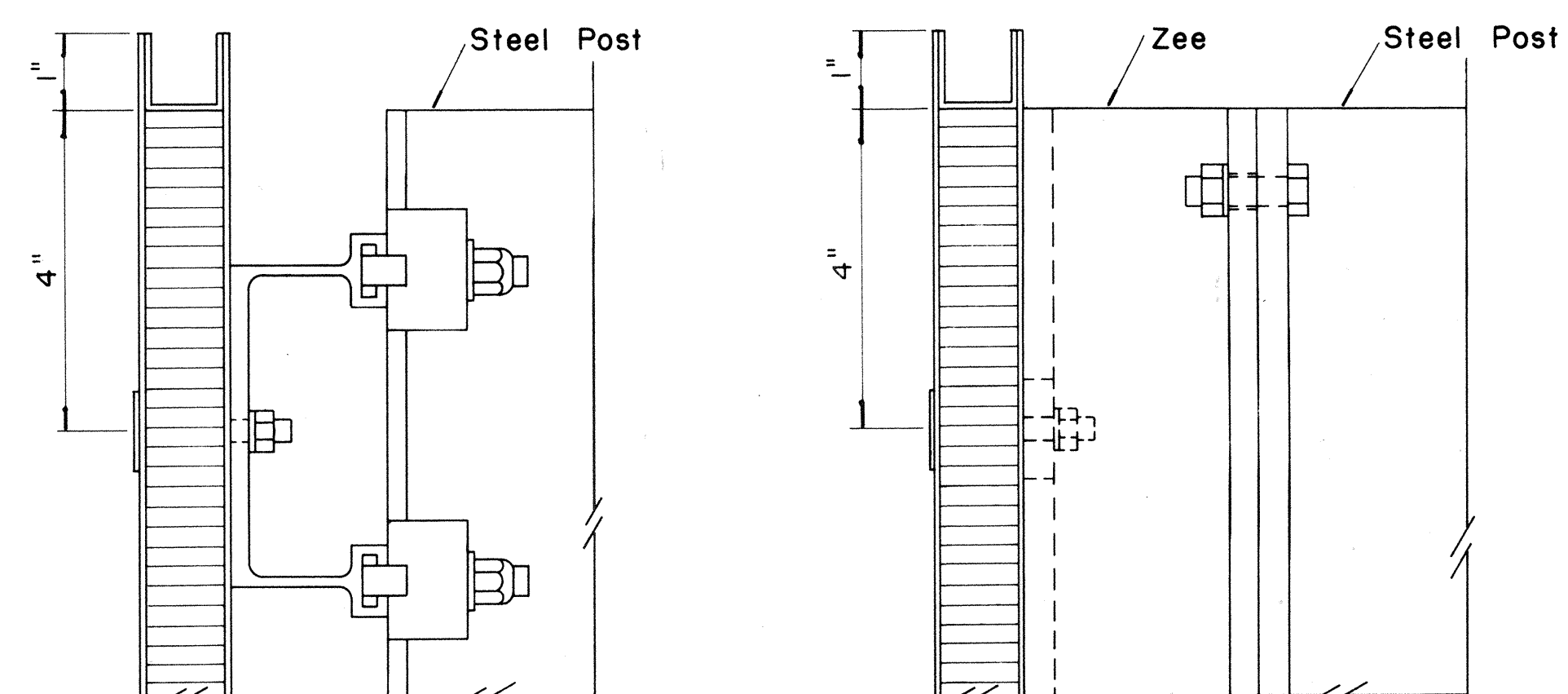
Scale: As Shown Date: Dec. 1965

SHEET No. 20 OF 30 SHEETS



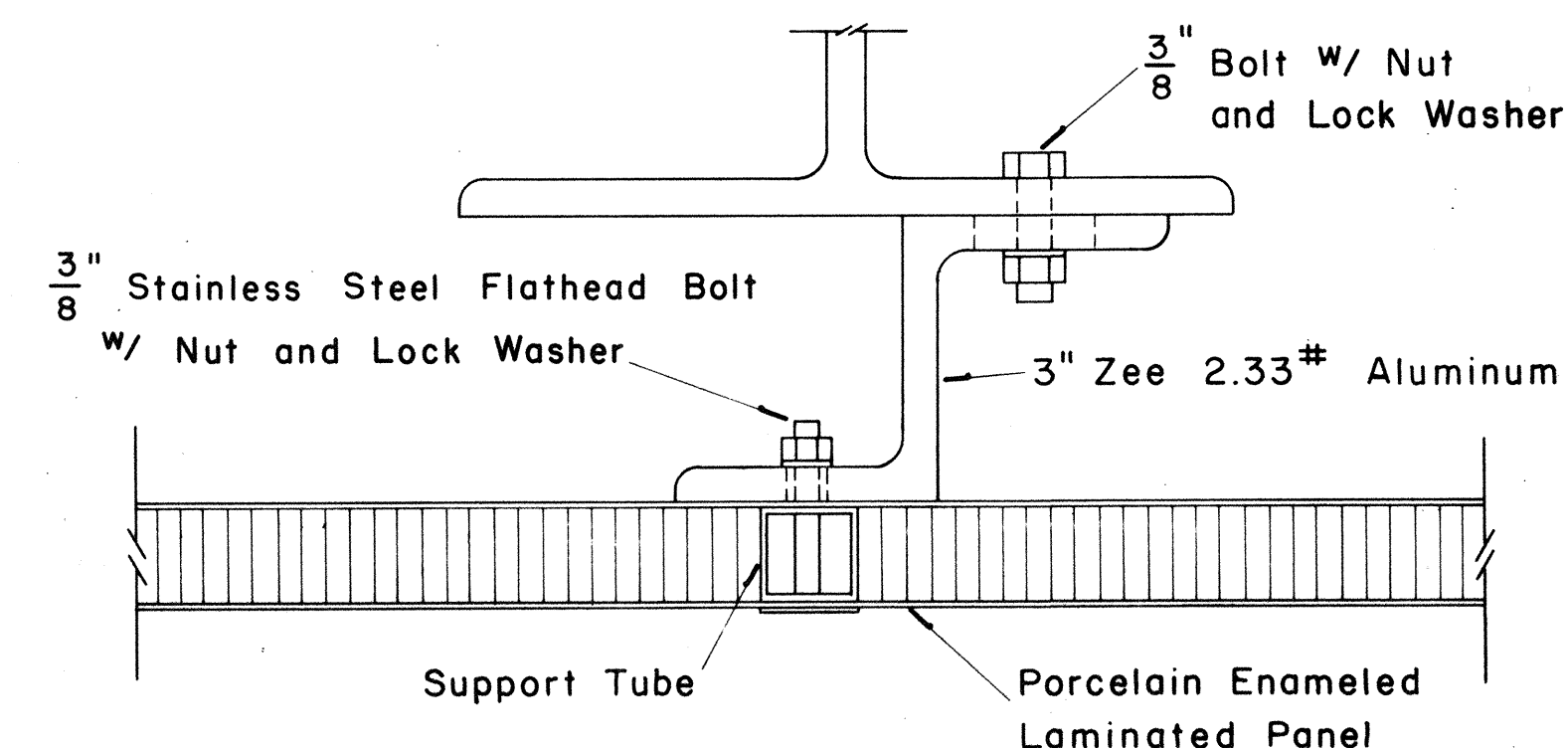
ZEE MOUNTING DETAILS

Scale: $\frac{1}{2}$ " = 1'

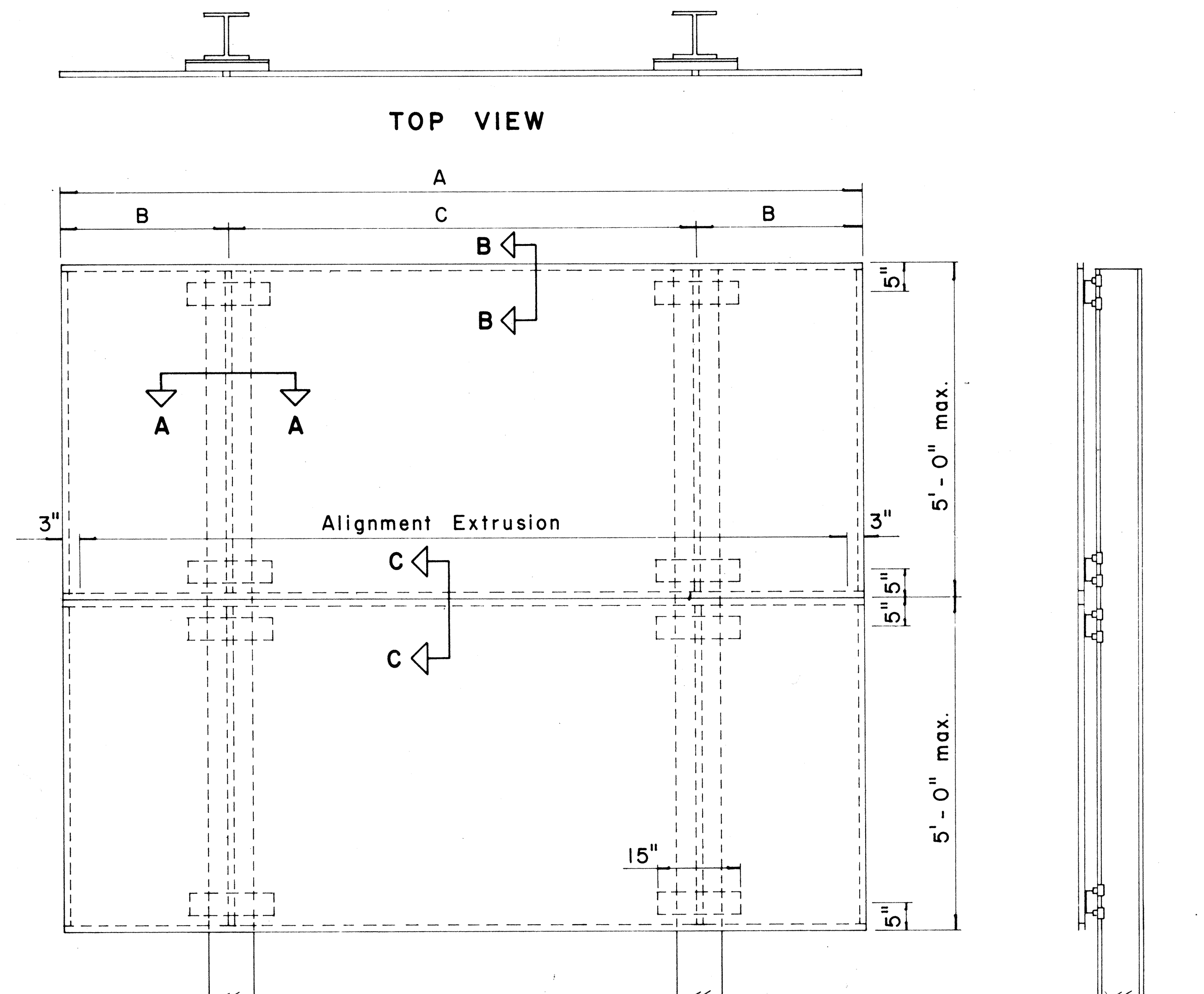


SECTION "B-B"
Scale: $\frac{1}{2}$ " = 1'

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

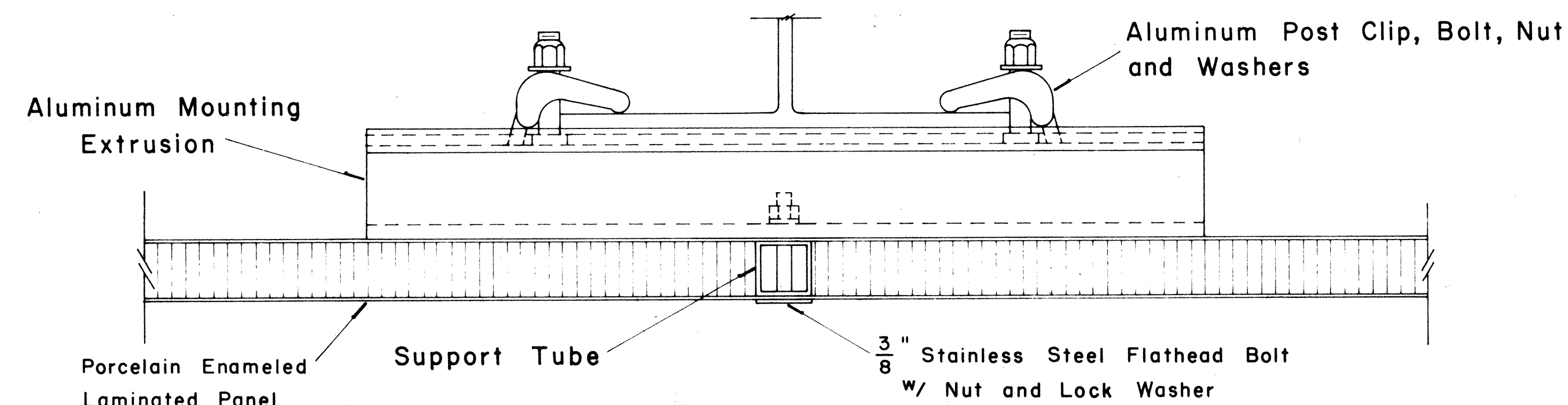


SECTION "A-A"
(Alternate)
Scale: $\frac{1}{2}$ " = 1'



TYPICAL SIGN ASSEMBLY

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



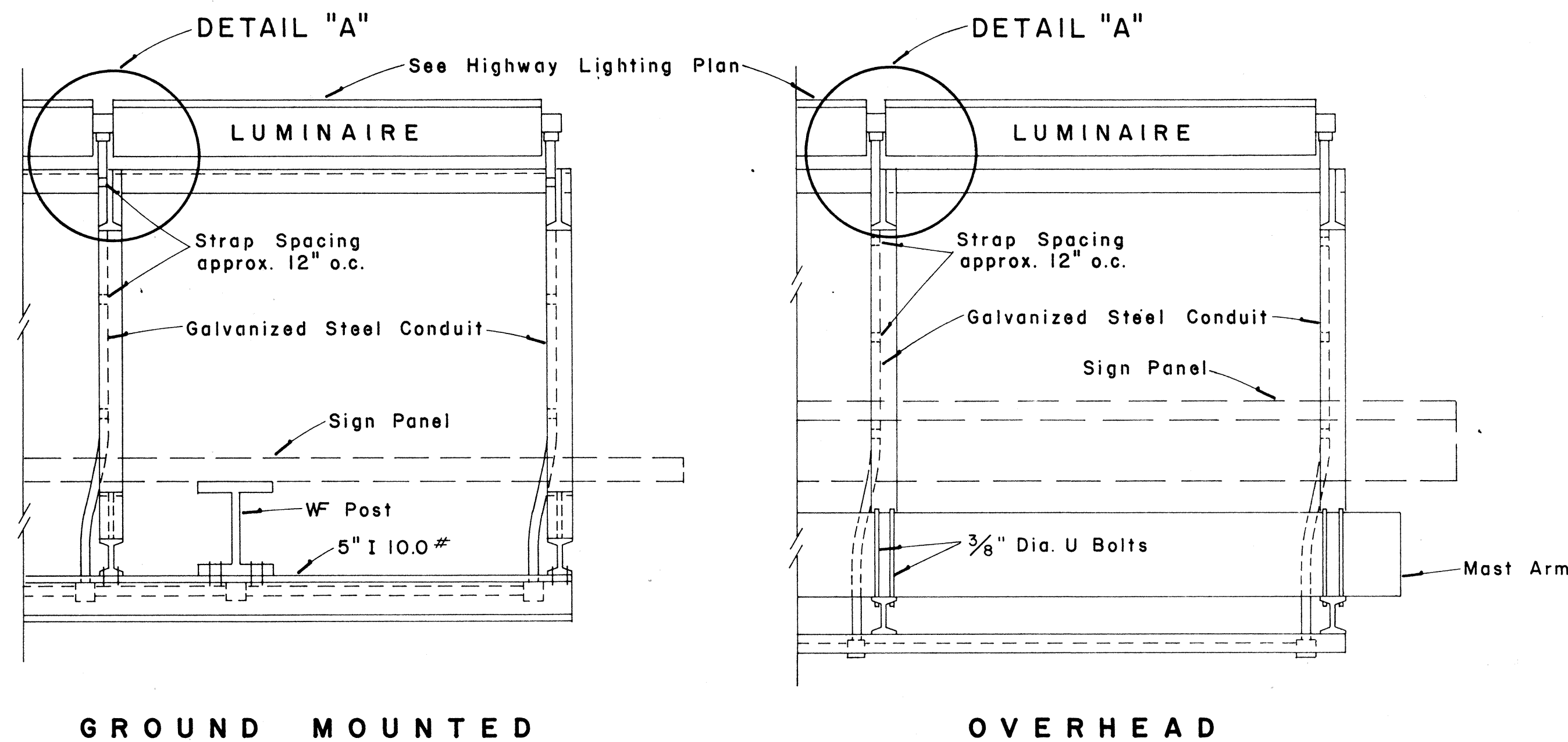
SECTION "A-A"
Scale: $\frac{1}{2}$ " = 1'

DATE
SURVEY PLOTTED BY
DESIGNED BY
NOTE BOOK
CHECKED BY
SHEETED BY

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(19)	1966	50	65

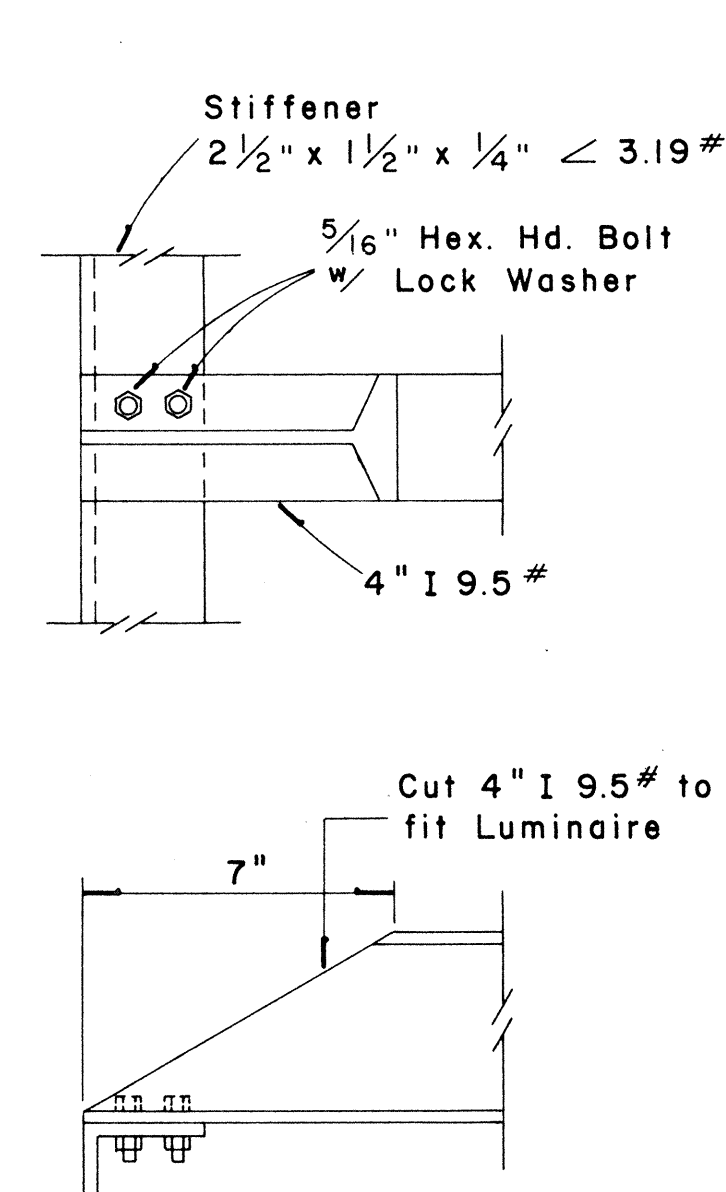
GENERAL NOTES

- Conduit sizes: $\frac{3}{4}$ " diameter for one or two Luminaire Units, 1" diameter for three or more Luminaire Units.
- Fluorescent Fixtures shall be installed as recommended by the manufacturer.
- Luminaire brackets shall be spaced to fit 4'-0" to 6'-0" luminaires with fittings. Eight feet (8'-0") luminaires shall have an additional bracket at midpoint.
- All parts of the bracket shall be hot-dip galvanized, prime coated with a suitable primer and painted with three coats of dark green enamel.



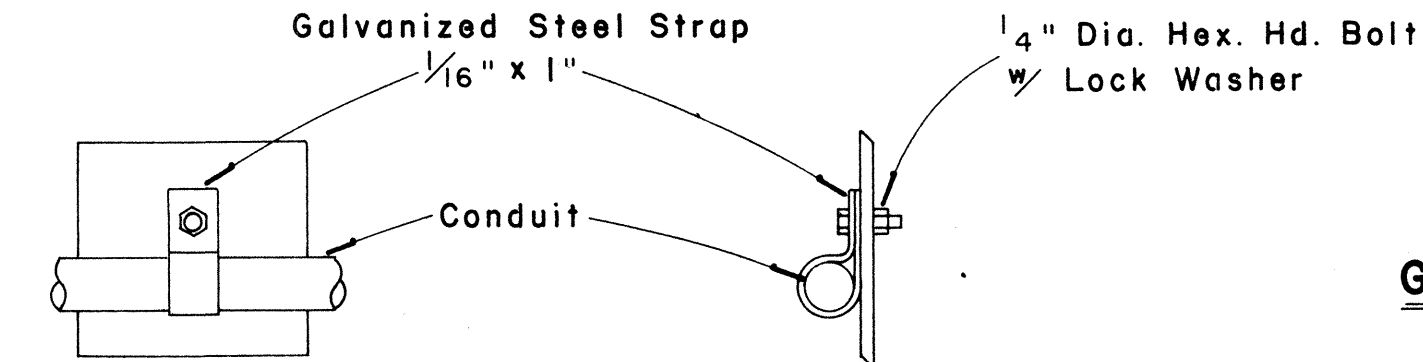
TOP VIEW LUMINAIRE MOUNTING

Scale: 1" = 1'-0"



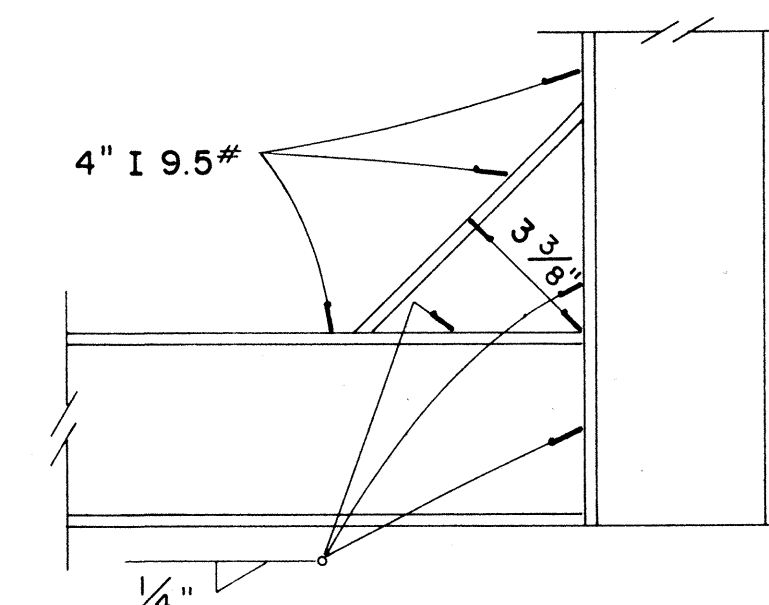
DETAIL "A"

Scale: 3" = 1'-0"



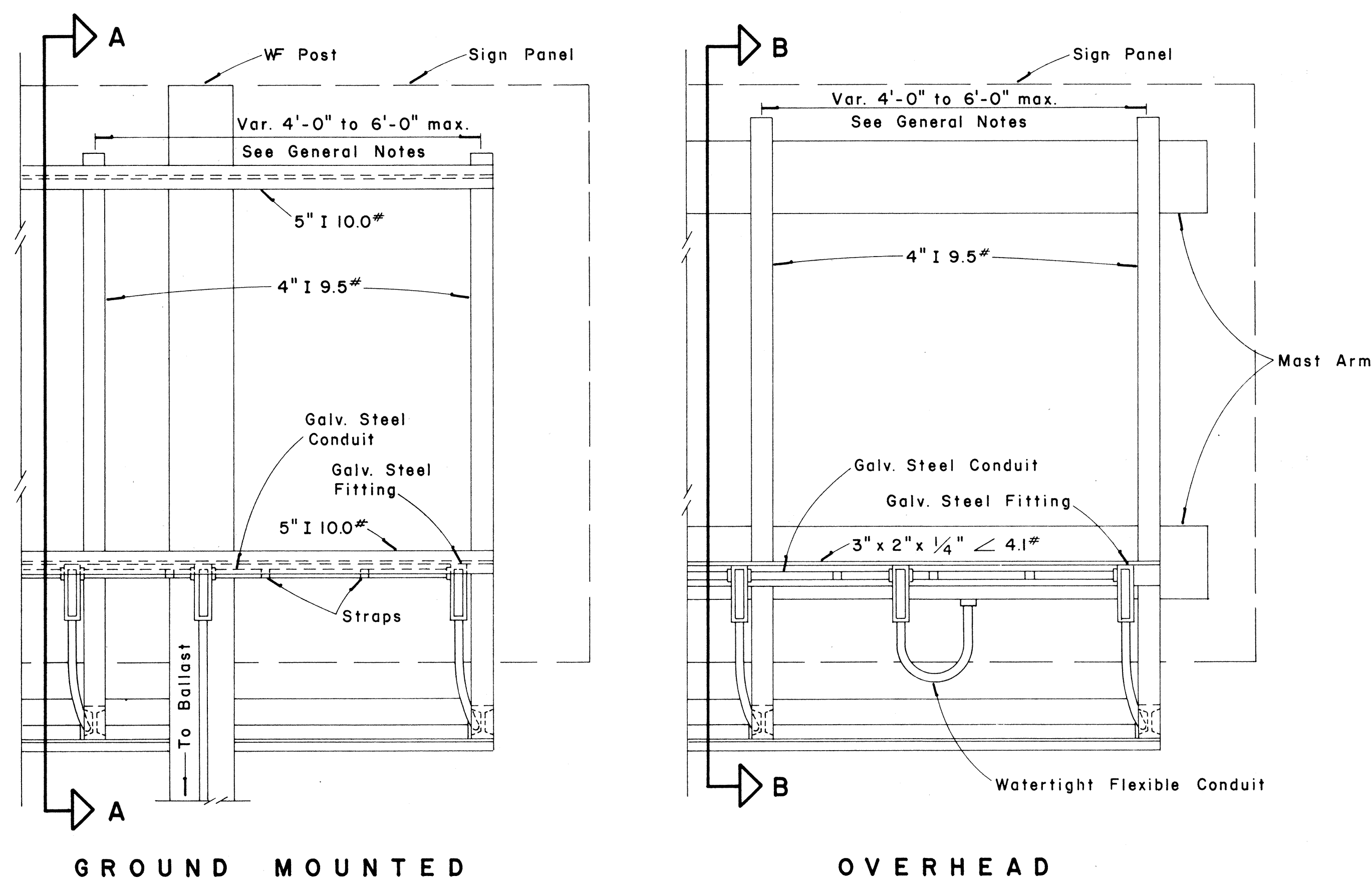
CONDUIT STRAP DETAIL

Scale: 3" = 1'-0"



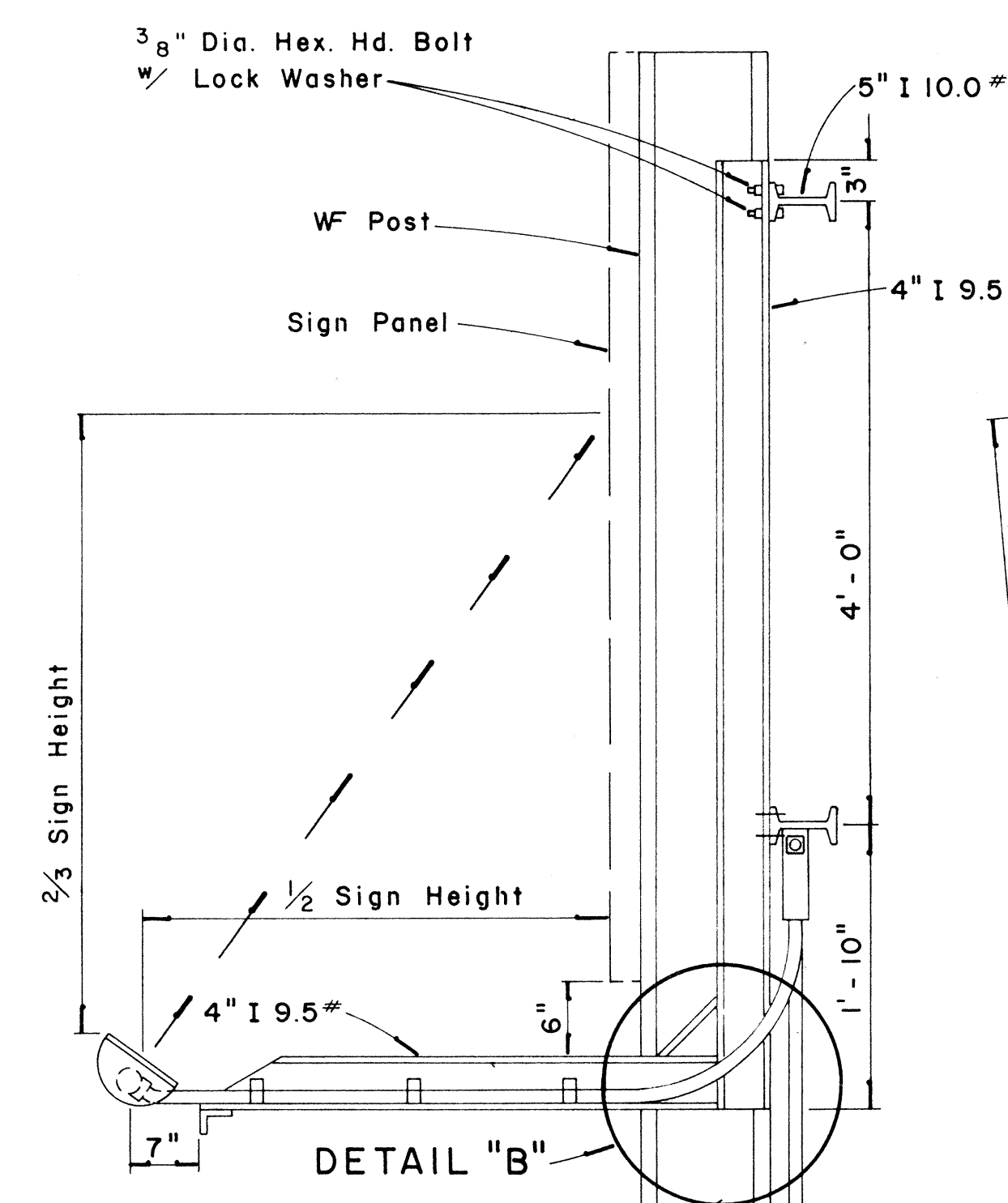
DETAIL "B"

Scale: 3" = 1'-0"



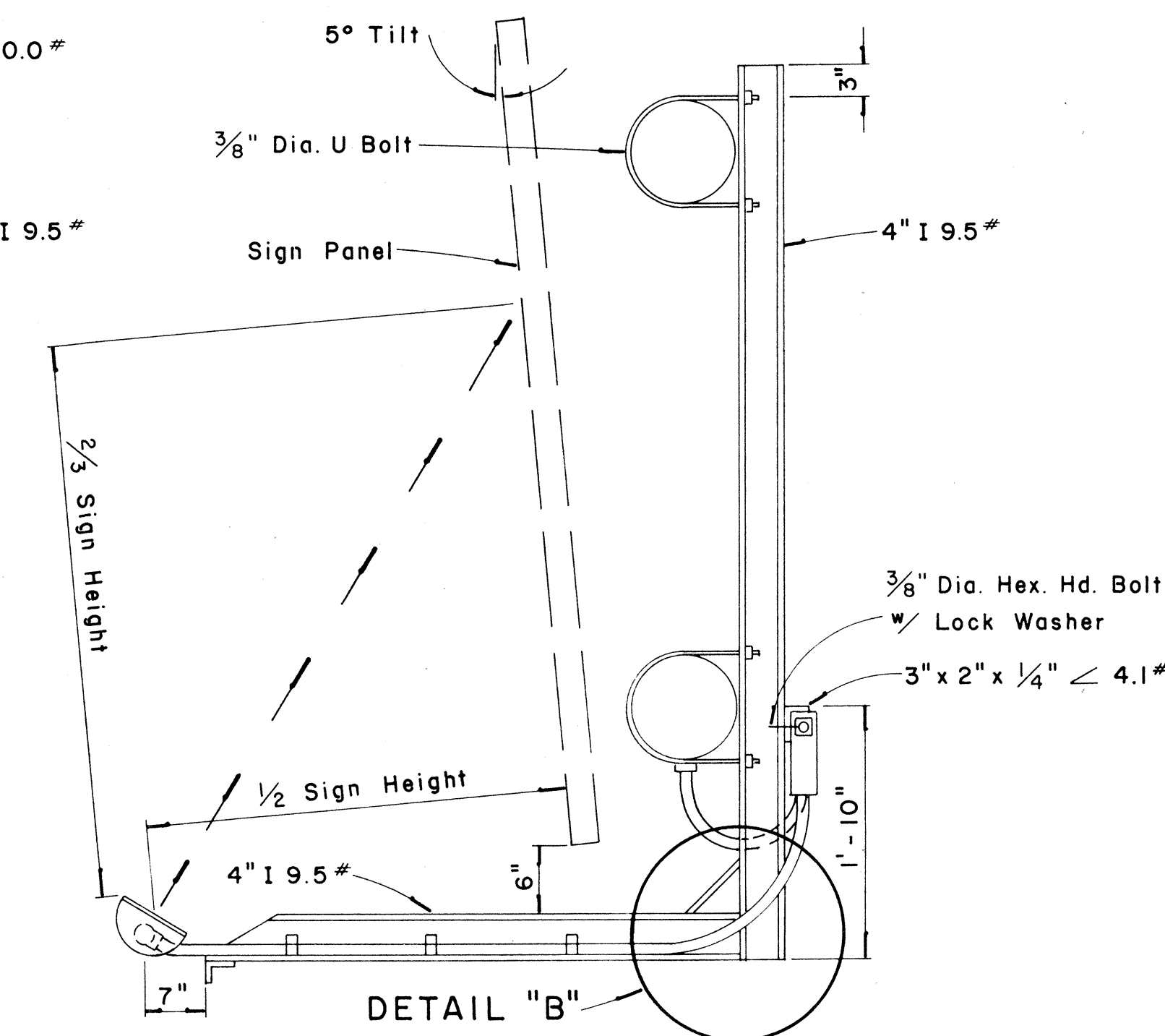
REAR VIEW LUMINAIRE MOUNTING

Scale: 1" = 1'-0"



SECTION "A-A"

Scale: 1" = 1'-0"



SECTION "B-B"

Scale: 1" = 1'-0"

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

EXPRESSWAY SIGNS LUMINAIRE MOUNTINGS

INTERSTATE ROUTE H-1

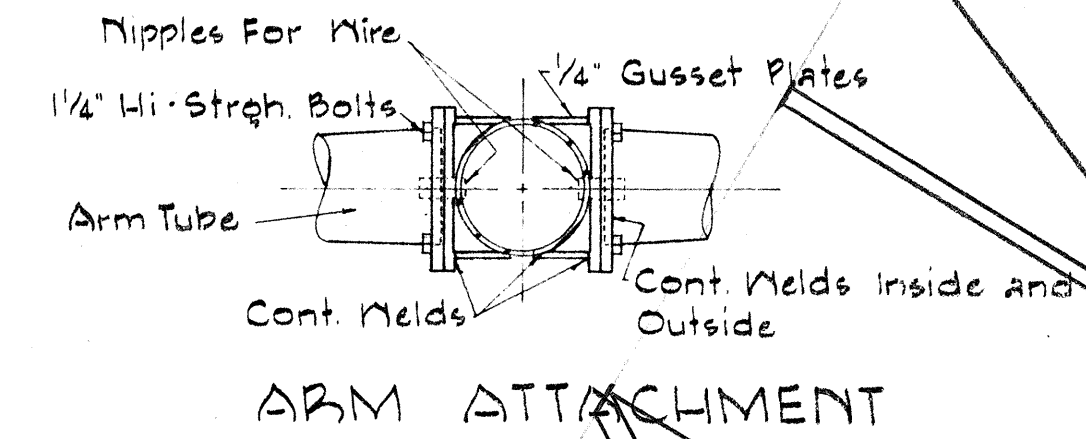
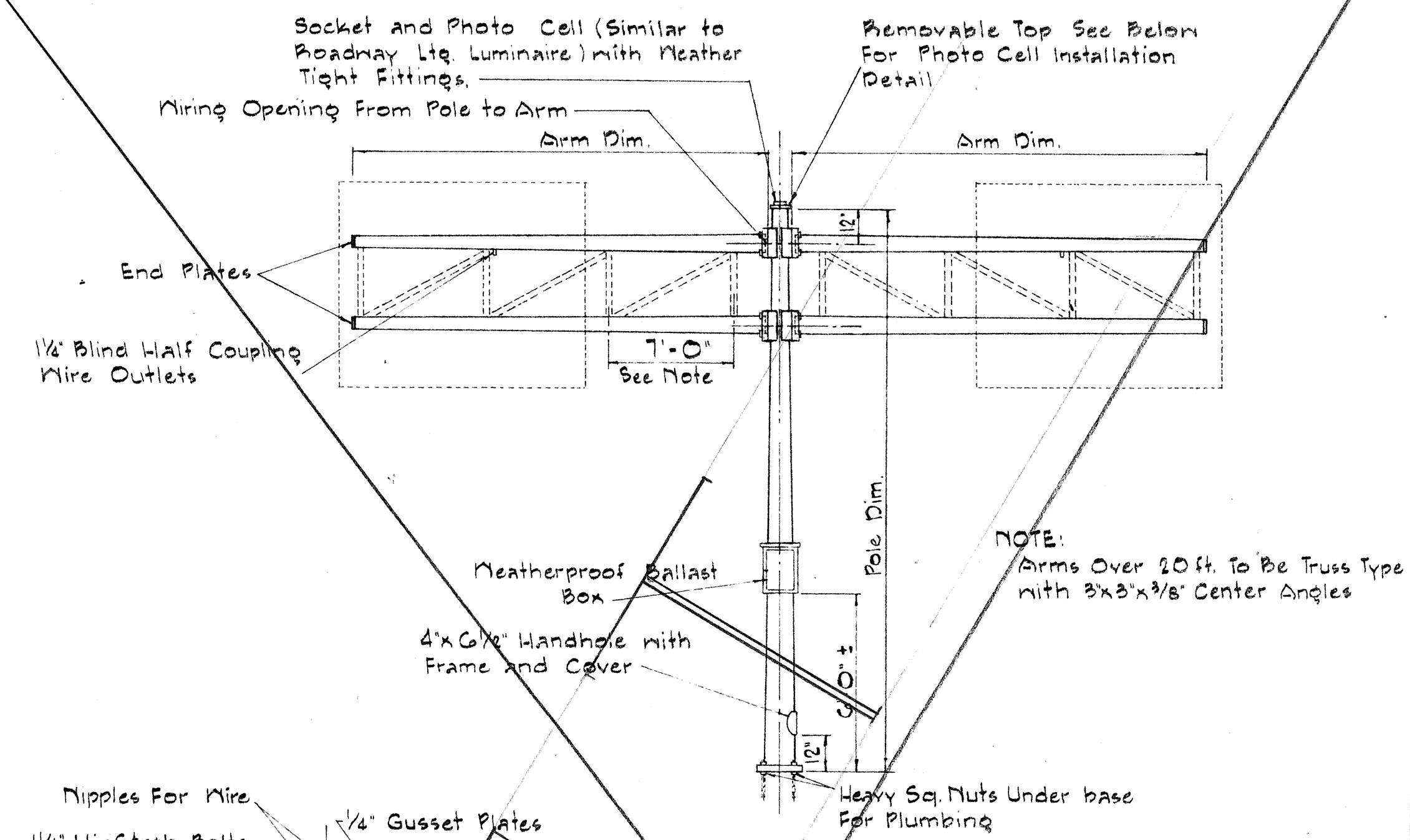
F.A.I. Proj. I-HI-1(19)

Scale: As Shown December 1965

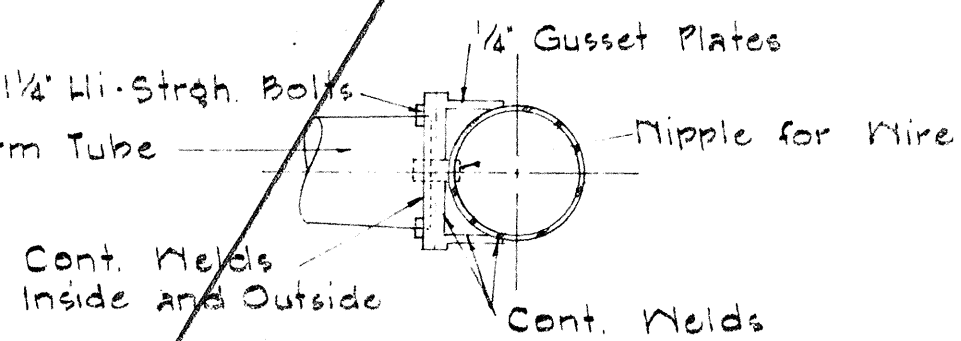
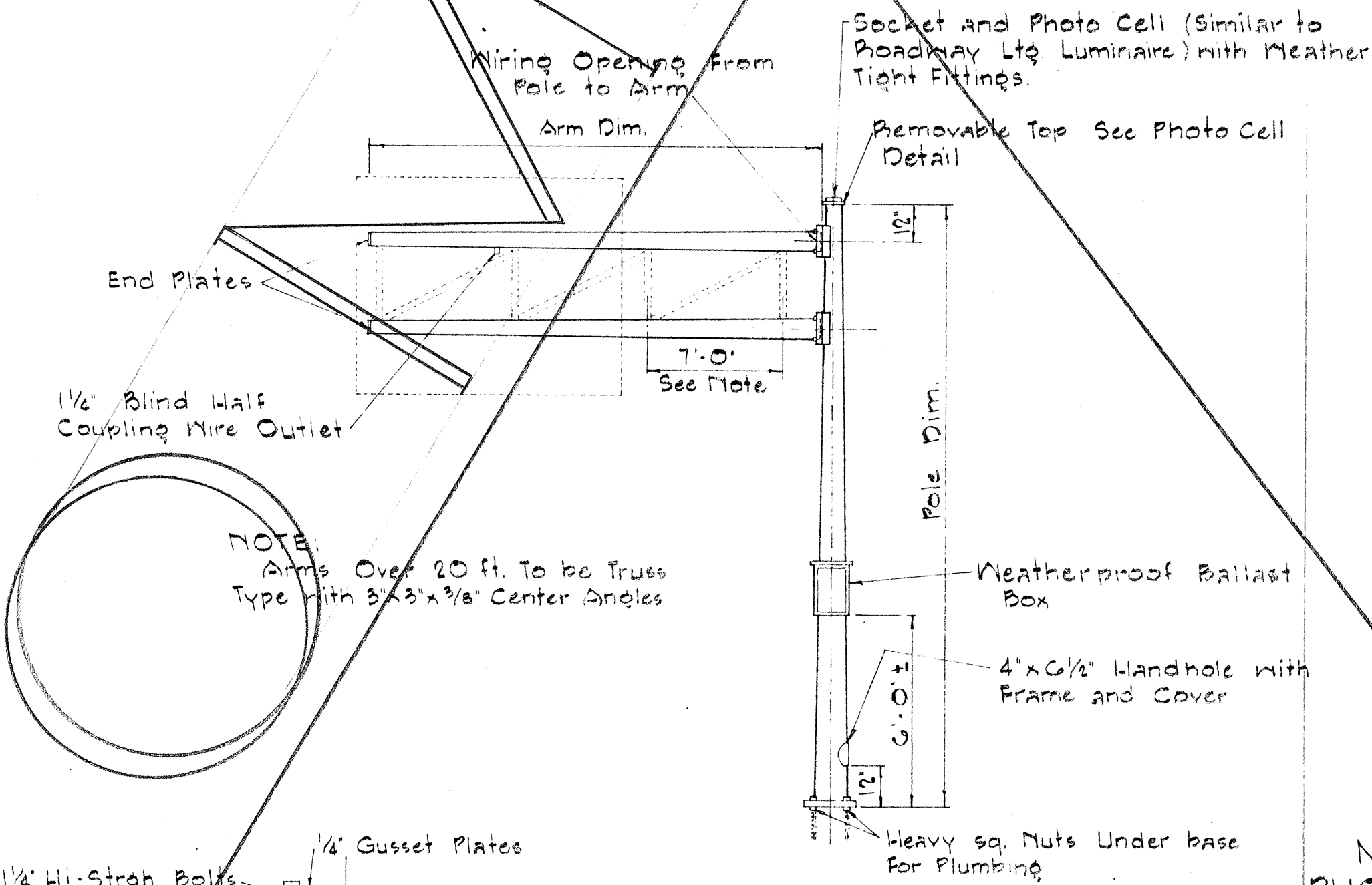
SHEET No. 21 OF 30 SHEETS

ORIGINAL PLAN	DATE
DRAWN BY	
CHECKED BY	
DESIGNED BY	
NOTED BY	
QUANTITIES BY	
CHECKED BY	

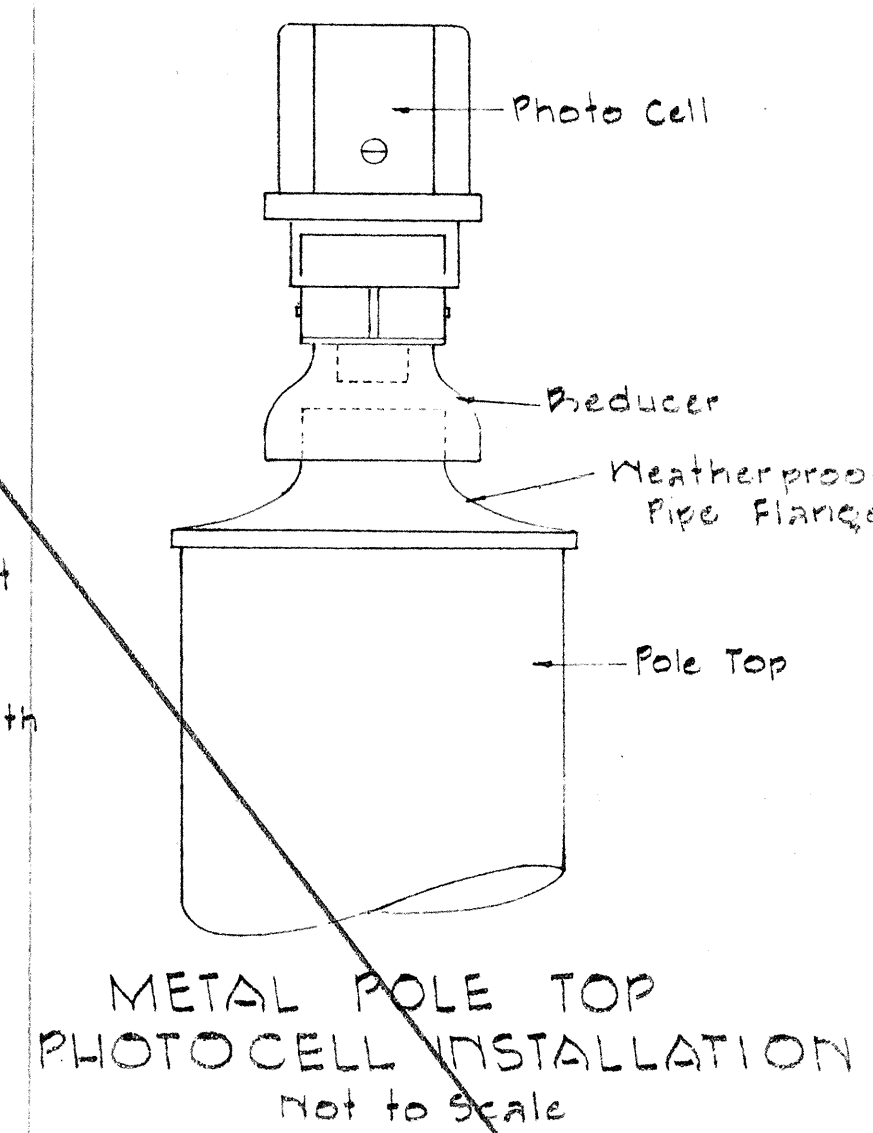
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(19)	1966	51	65



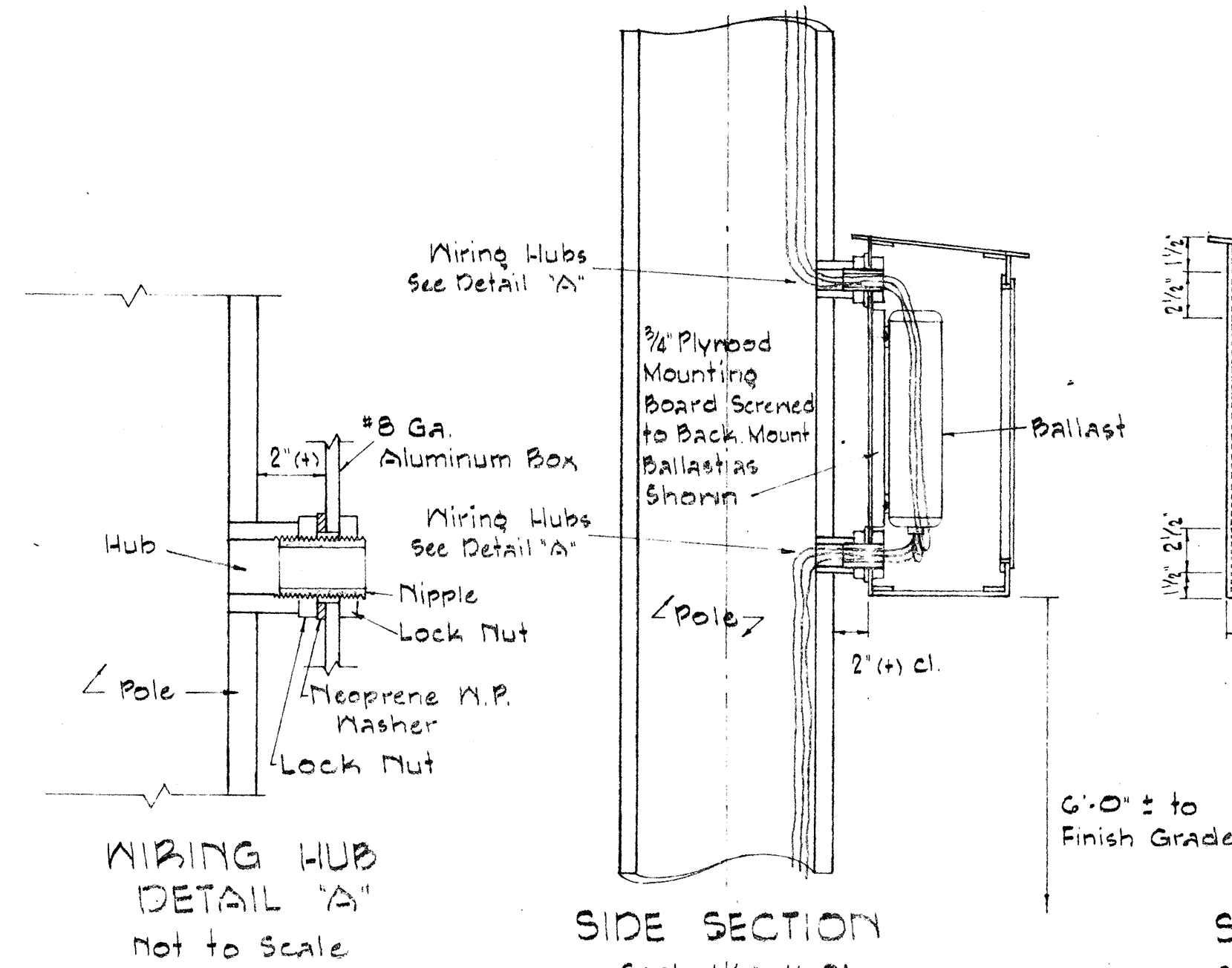
SINGLE SIGN POST
CENTER MOUNTED TYPE
DOUBLE MASTARM
TYPE B



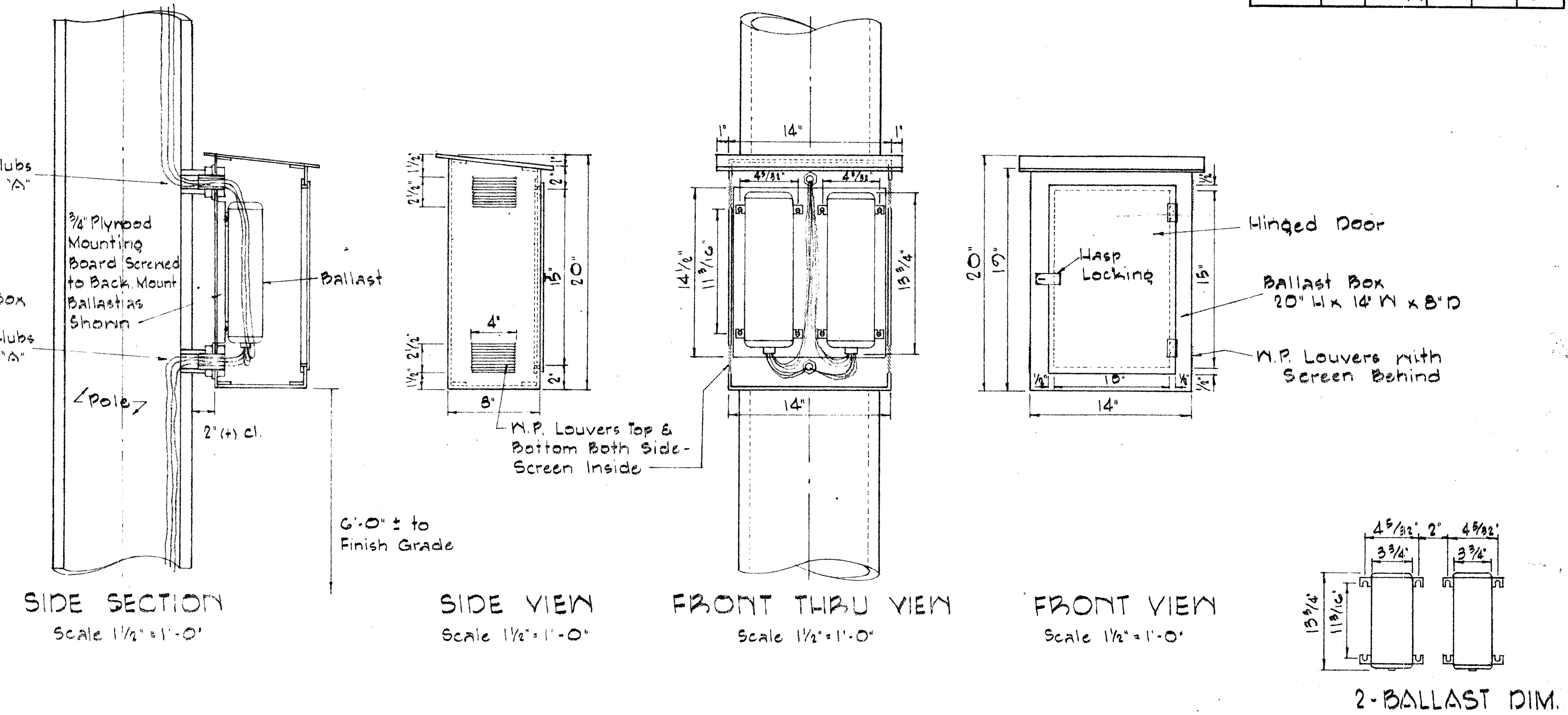
SINGLE SIGN POST
CANTILEVER TYPE
DOUBLE MASTARM
TYPE C



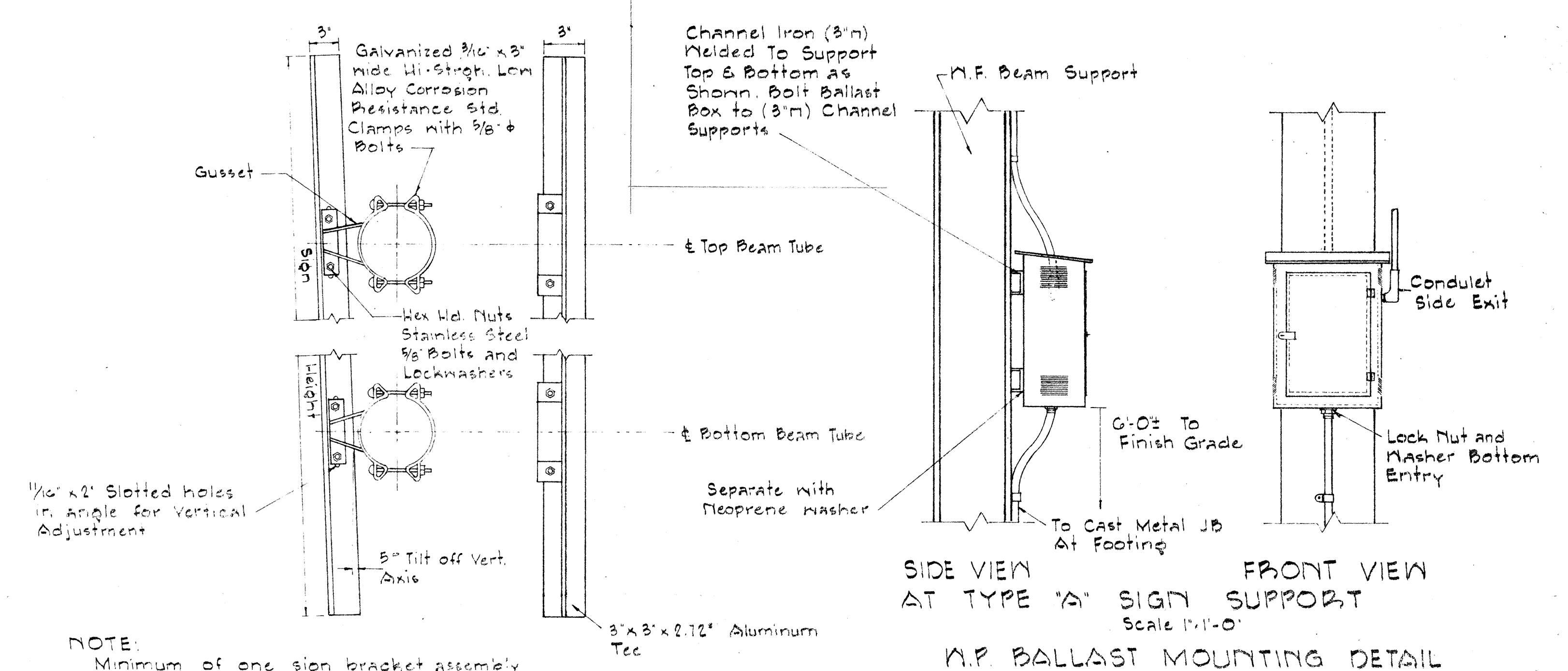
METAL POLE TOP
PHOTOCELL INSTALLATION
Not to Scale



WIRING HUB
DETAIL "A"
Not to Scale



WEATHER PROOF BALLASTS MOUNTING DETAIL



NOTE:
Minimum of one sign bracket assembly
required for each 5 linear ft. of sign width
for signs over 7 ft high. Minimum of one
sign bracket assembly for each 7 linear ft.
of sign width for signs up to 7 ft. high

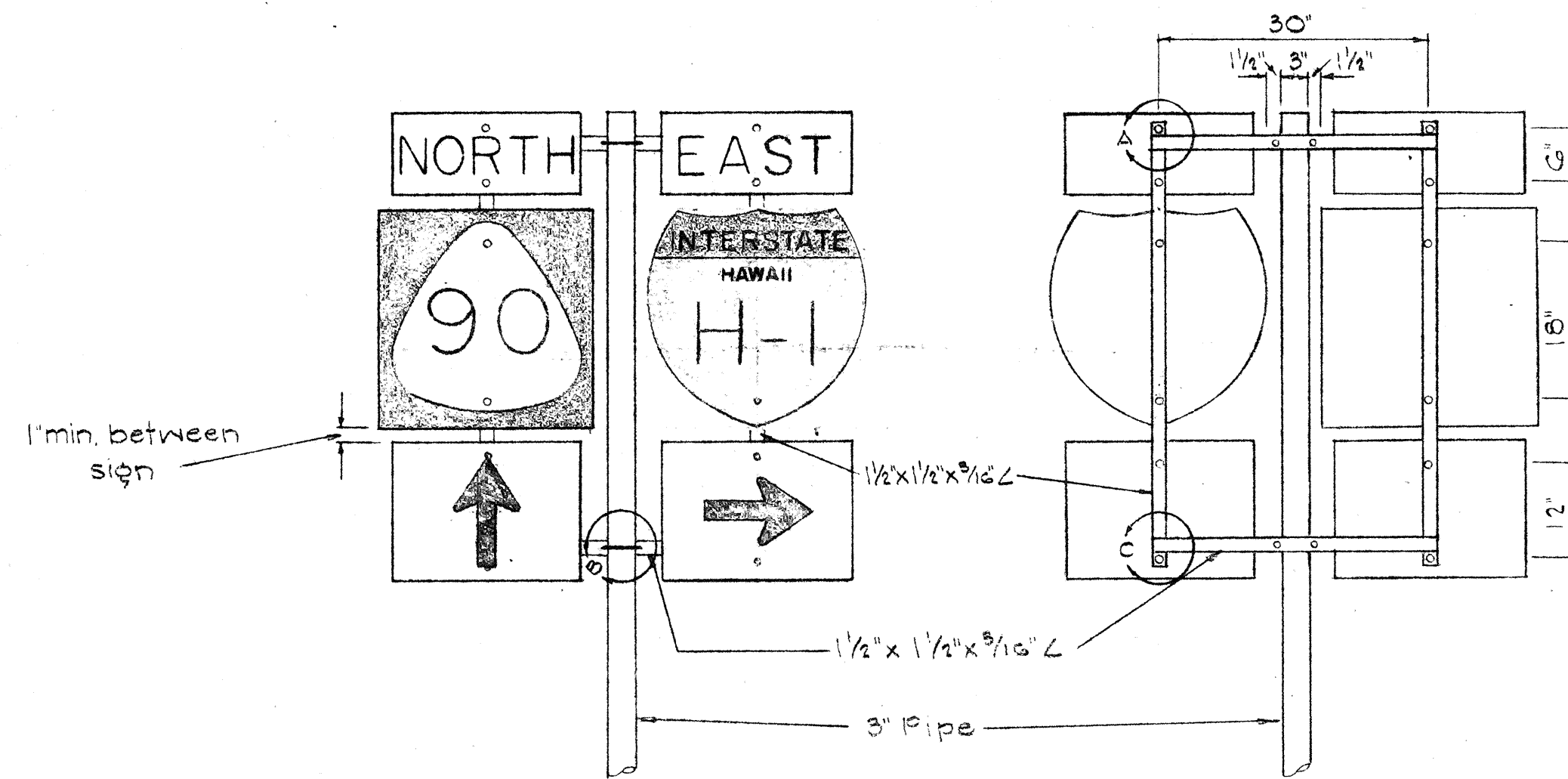
SIGN BRACKET ASSEMBLY

SIDE VIEW
AT TYPE "A" SIGN SUPPORT
Scale 1/2" = 1'-0"
W.P. BALLAST MOUNTING DETAIL

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
EXPRESSWAY SIGNS
BALLAST MOUNTING DETAIL

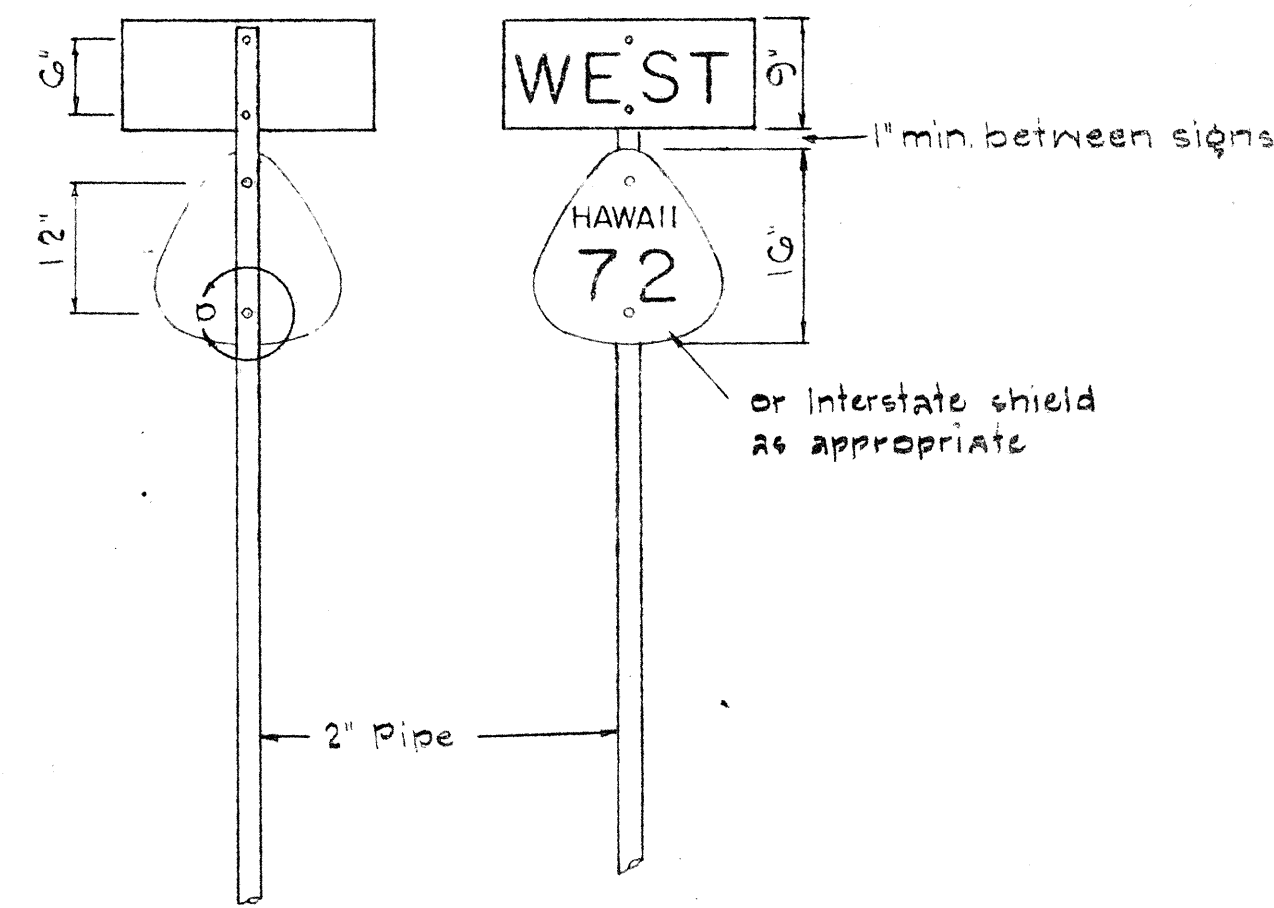
INTERSTATE ROUTE H-1
F.A.I. Proj I-HI-1(19)
Scale: As Shown December 1965
SHEET No. 22 OF 30 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	I-HI-1(19)	1966	52	65



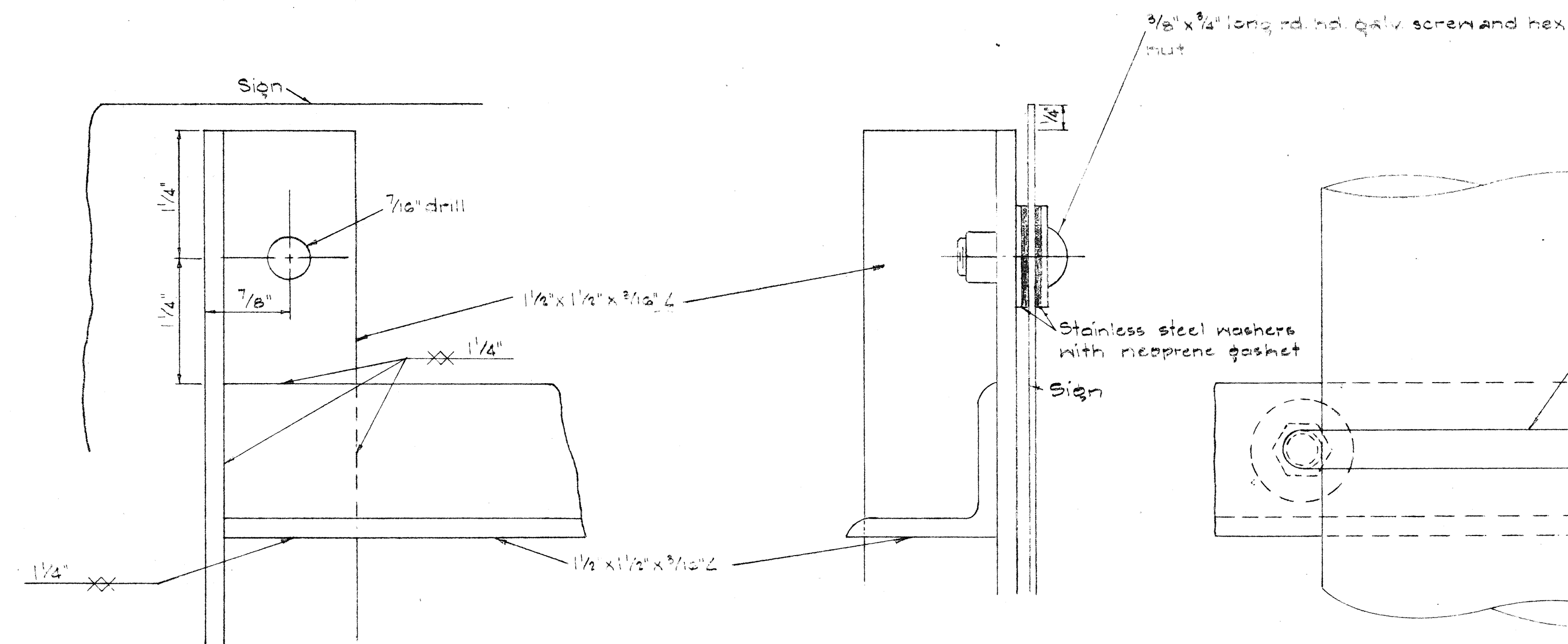
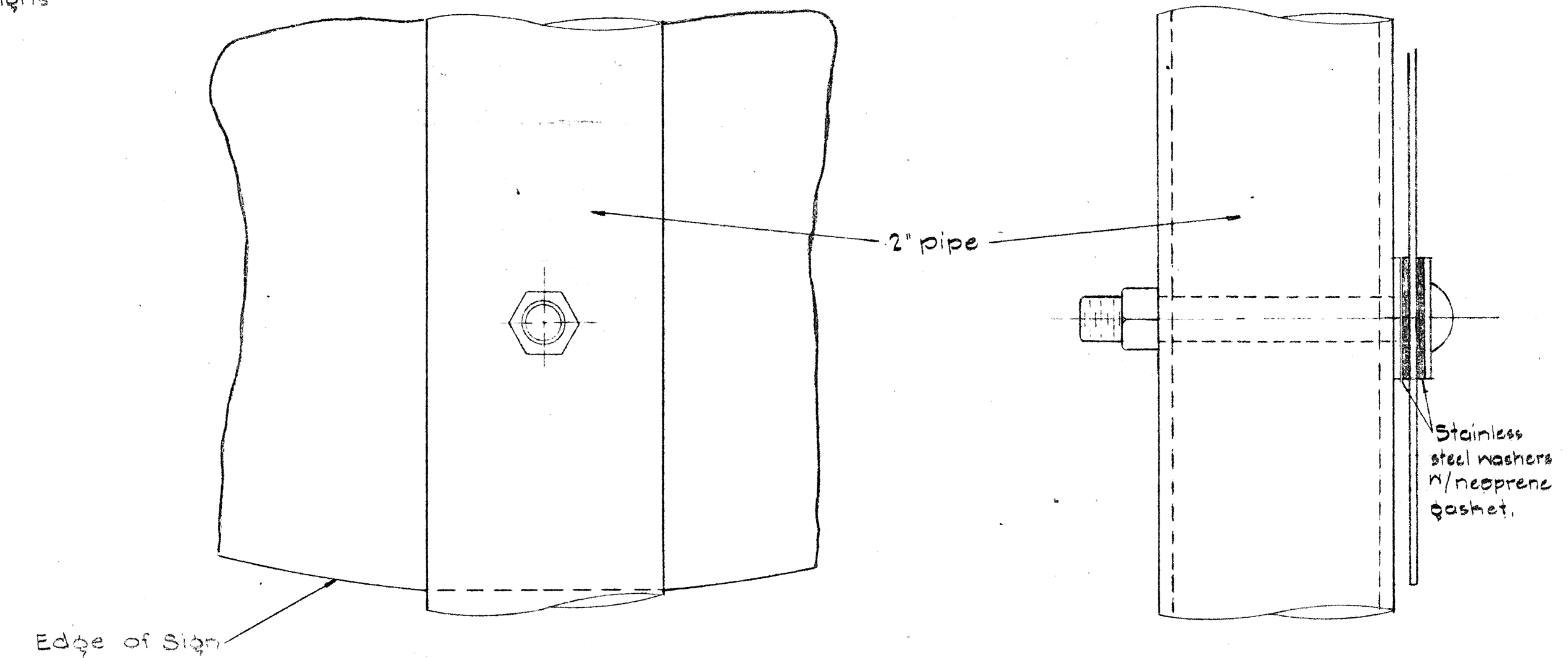
TYPE "B" ASSEMBLY
NOT TO SCALE

NOTE:
Minimum clearance between signs shall be 1 inch. (Larger clearances shall be in multiples of 1 inch.)

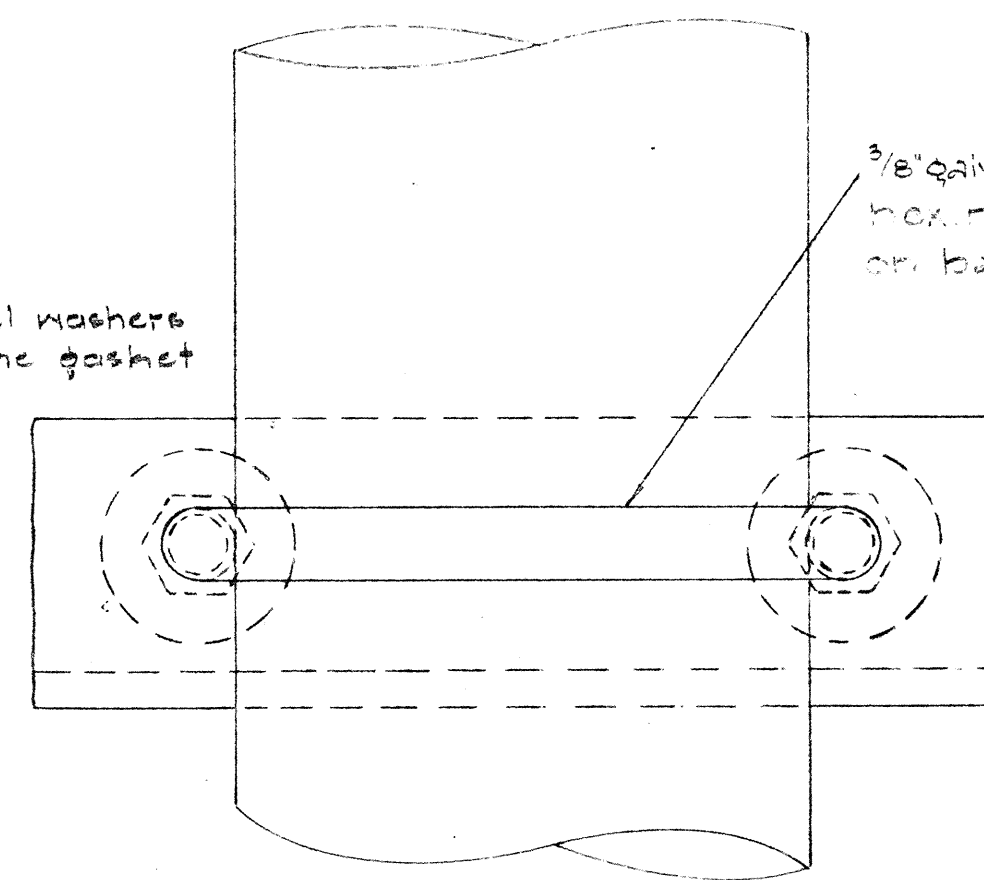


TYPE "A" ASSEMBLY
NOT TO SCALE

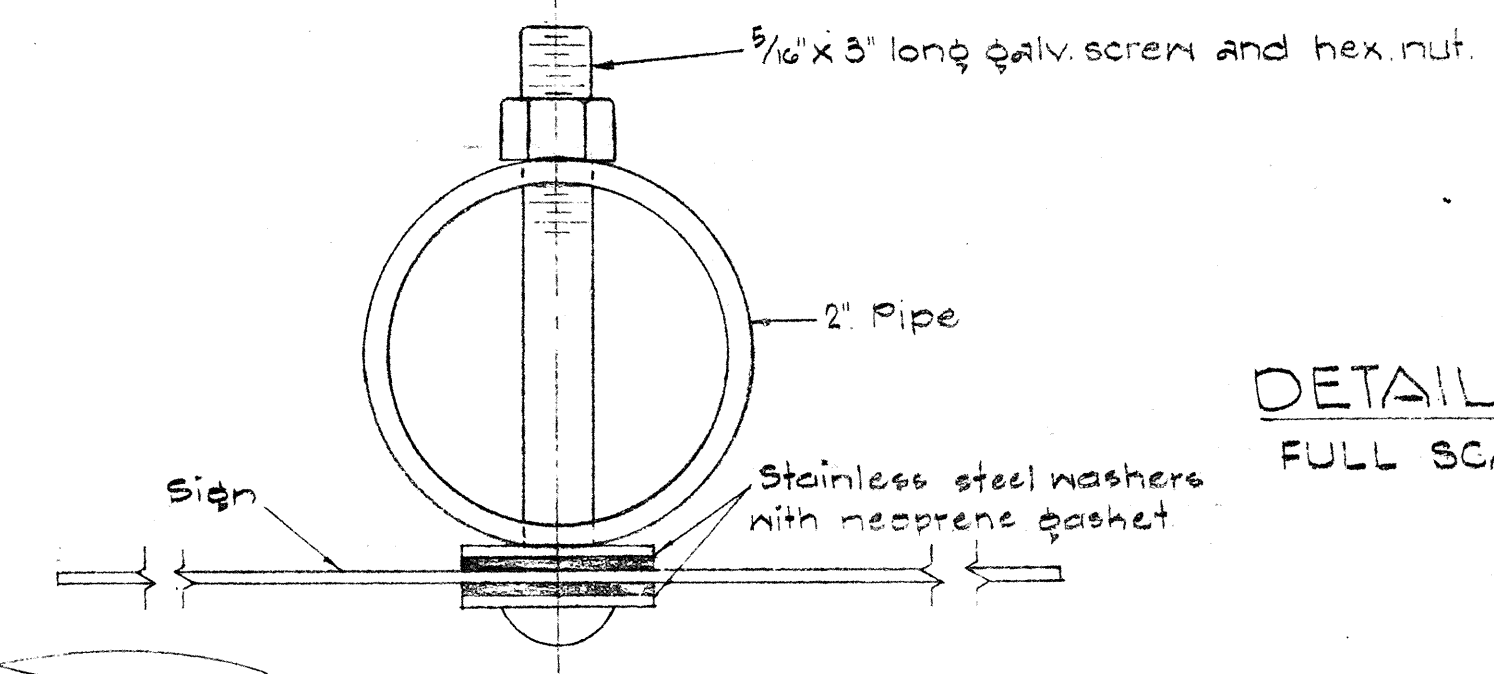
NOTE:
Use 2" pipe for Type "A" Assembly.
Use 3" pipe for Type "B" Assembly.



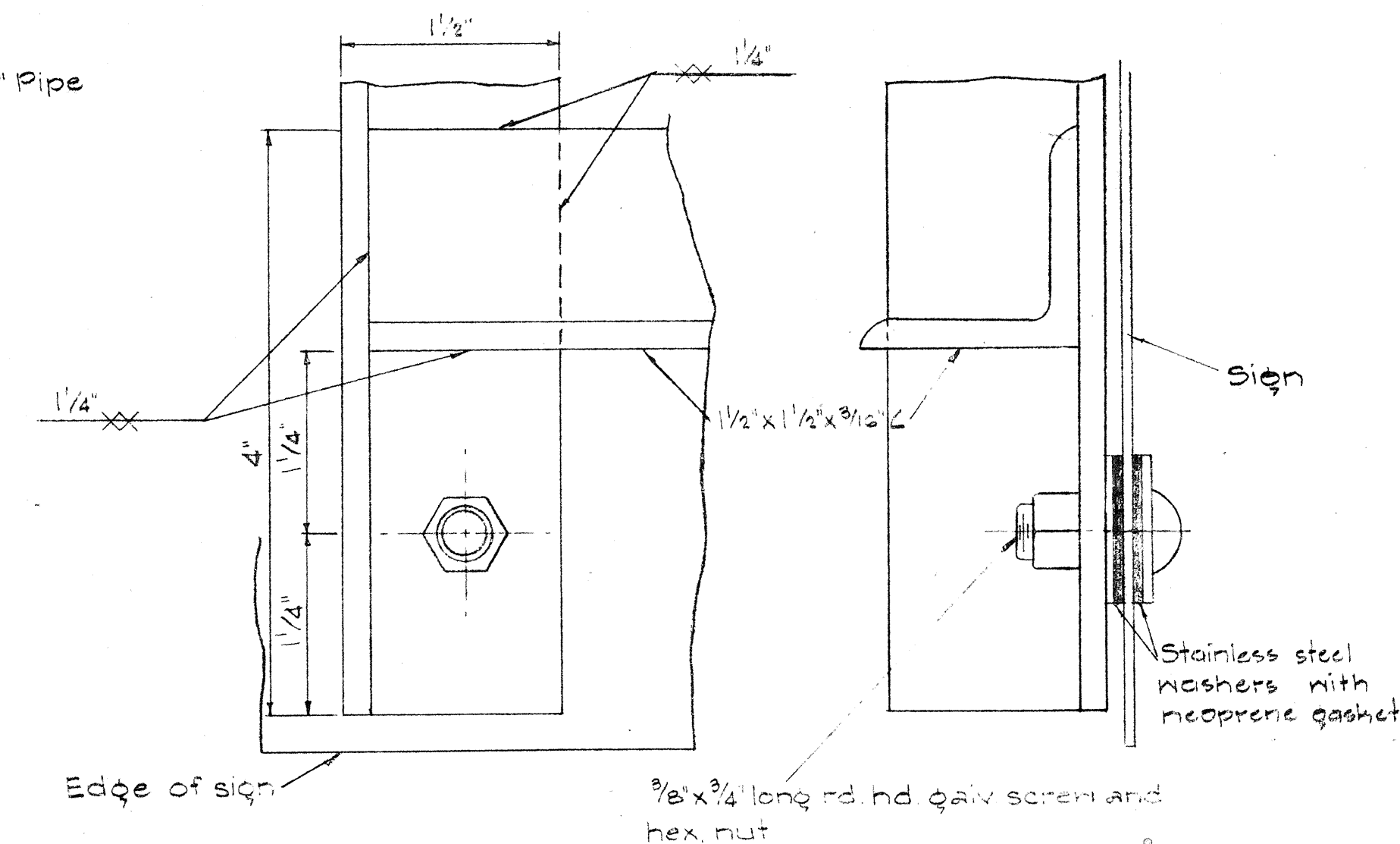
DETAIL "A"
FULL SCALE



DETAIL "B"
FULL SCALE



DETAIL "D"
FULL SCALE



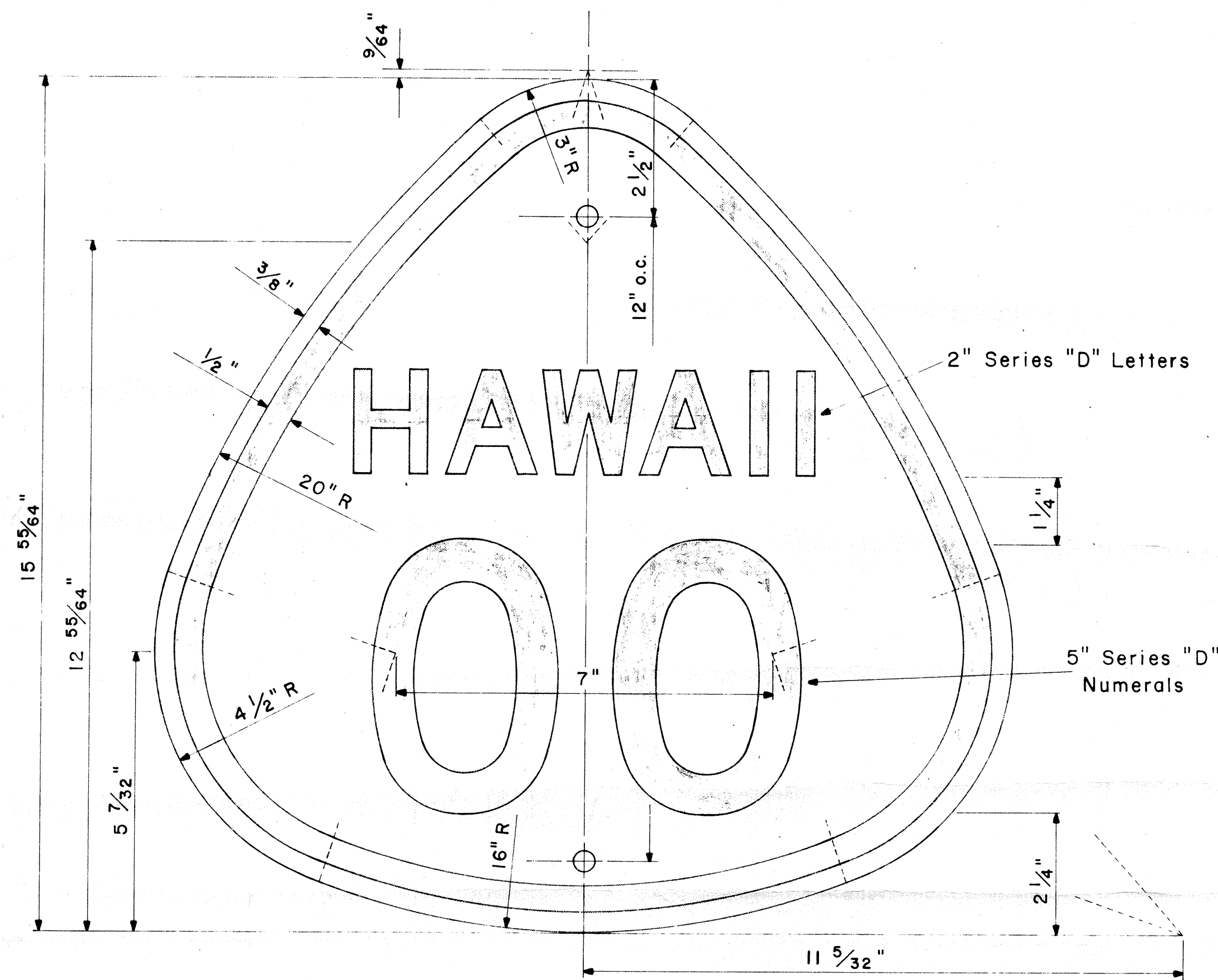
DETAIL "C"
FULL SCALE

NOTE:
For height and lateral location of Route Marker Assembly, see Sheet No. 55

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
TYPICAL DETAILS
ROUTE MARKER ASSEMBLY

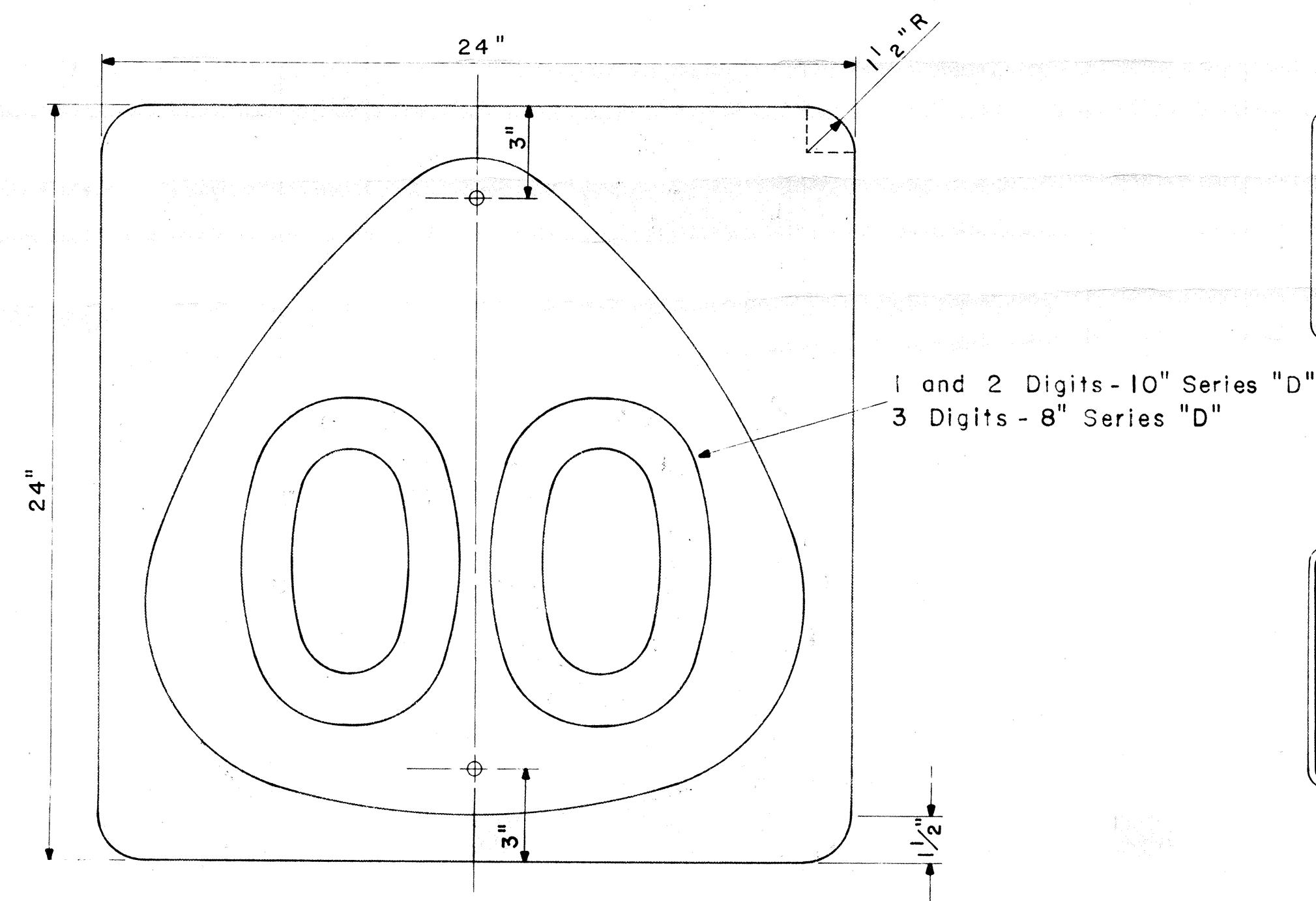
INTERSTATE ROUTE H-1
F.A.I. Proj. I-HI-1(19)
Scale: As Shown December 1965
SHEET No. 23 OF 30 SHEETS

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



STATE ROUTE MARKER
M1-3(OO)

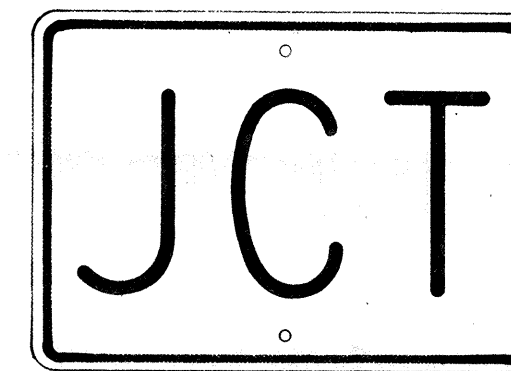
Scale: $\frac{1}{2}$ " = 1"



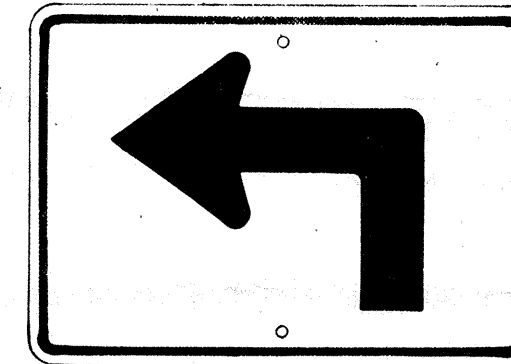
STATE ROUTE MARKER
M1-4(OO)

Scale: $\frac{1}{4}$ " = 1"

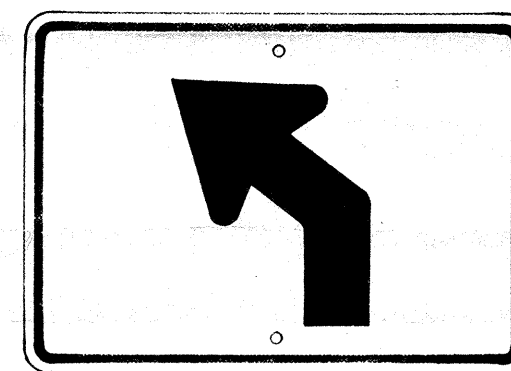
NOTE: Multiply all dimensions of State Route Marker M1-3 by 1.3 for the dimensions of the shield for M1-4.



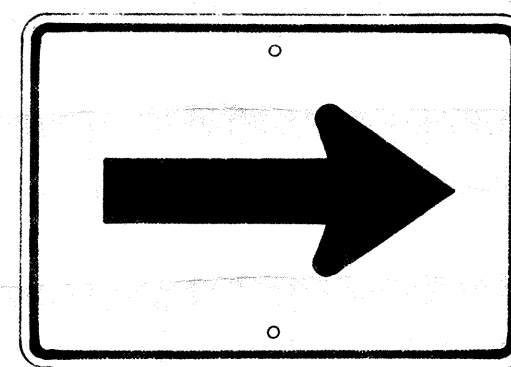
M2-1
21" x 15"



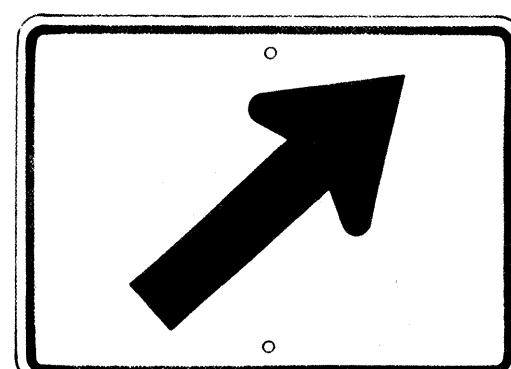
M3-1-L
* M3-1-R
21" x 15"



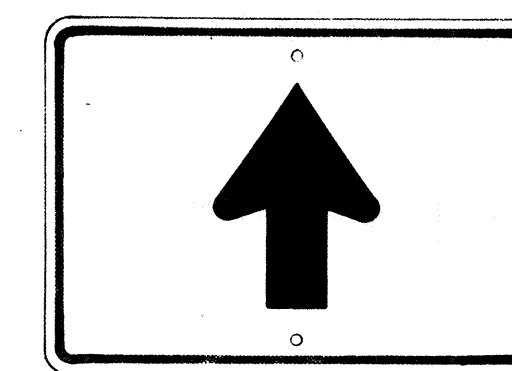
M3-2-L
* M3-2-R
21" x 15"



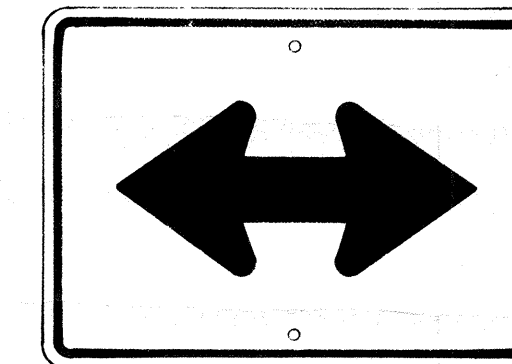
M4-1
21" x 15"



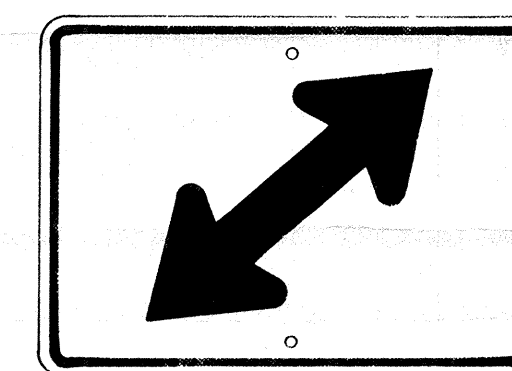
M4-2-R
* M4-2-L
21" x 15"



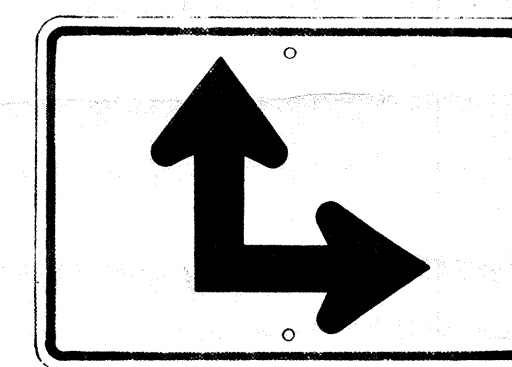
M4-3
21" x 15"



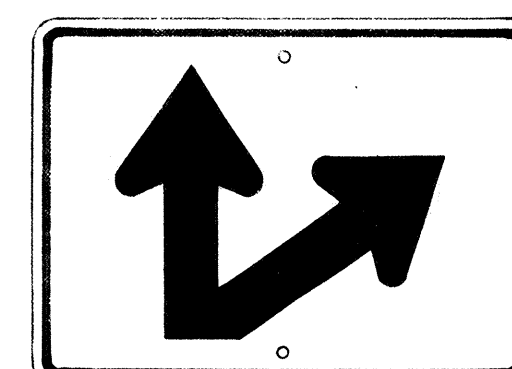
M4-4
21" x 15"



M4-5-R
* M4-5-L
21" x 15"



M4-6-R
* M4-6-L
21" x 15"

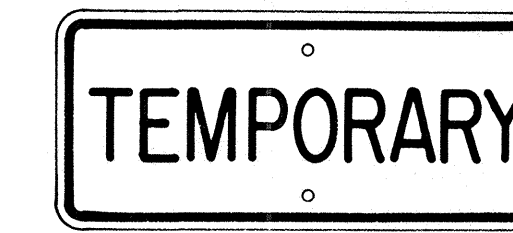


M4-7-R
* M4-7-L
21" x 15"

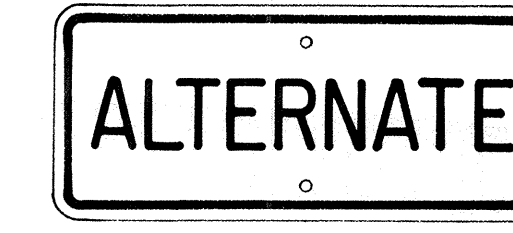
AUXILIARY MARKERS

Scale: $\frac{1}{8}$ " = 1"

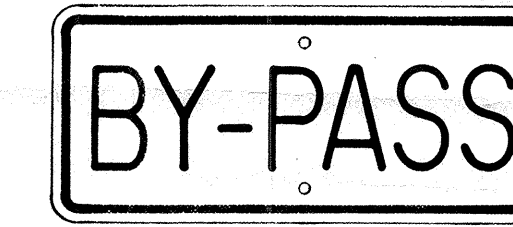
* NOTE: Signs shall be similar but opposite in direction.



M5-1
21" x 9"



M5-2
21" x 9"



M5-3
21" x 9"



M5-4
21" x 9"



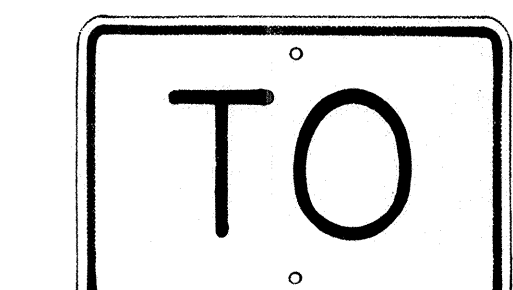
M5-5
21" x 9"



M5-6
21" x 9"



M6-1-N
21" x 9"
(See Note 6)

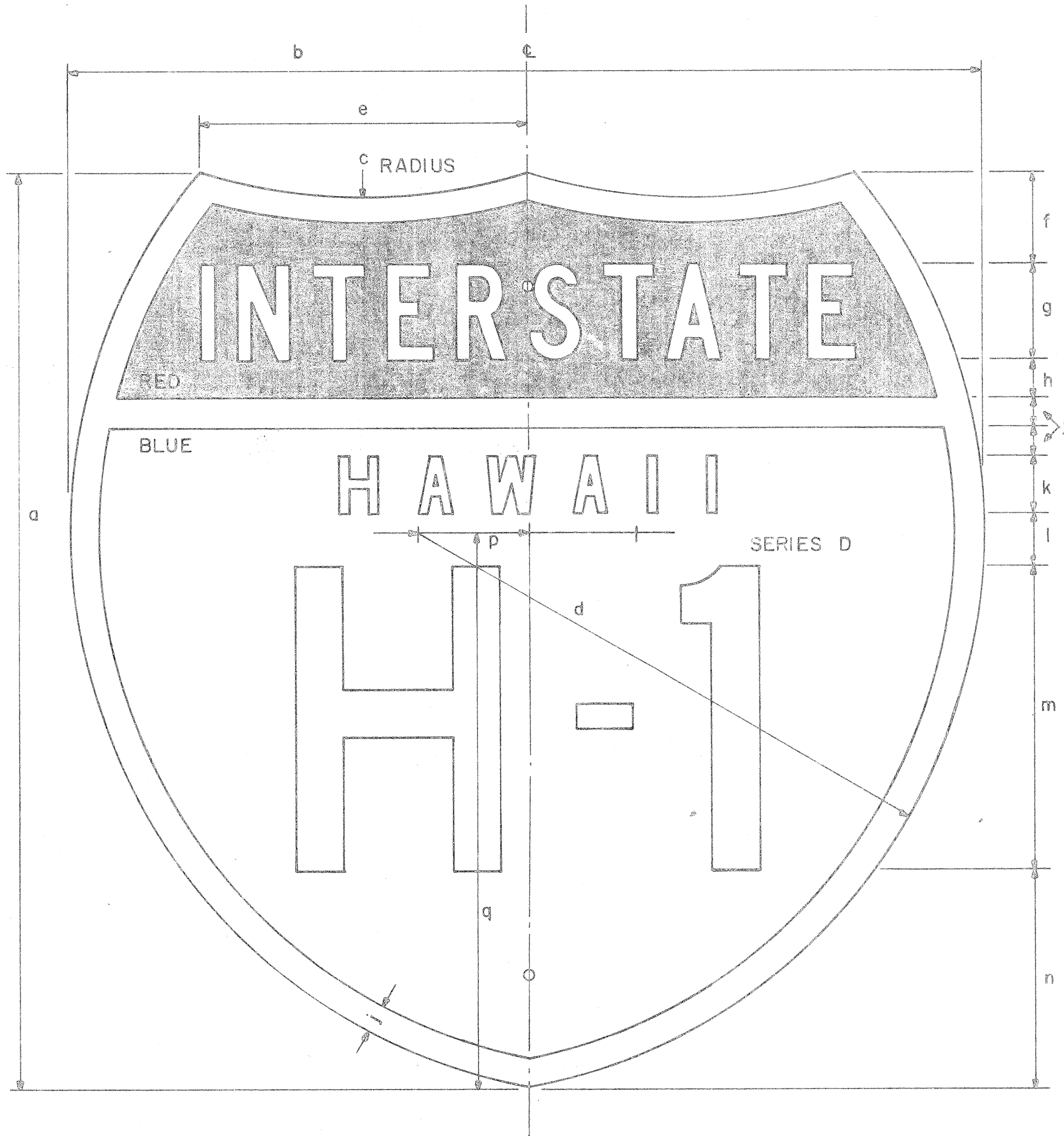


M7-1
18" x 12"

GENERAL NOTES

- The shape, color, dimensions, symbols, wording, lettering 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, 1952.
- All markers shall be reflectorized unless otherwise specified.
- All markers shall have $\frac{3}{8}$ " bolt holes drilled at appropriate locations unless otherwise specified.
- All markers shall have a black legend on a white background unless otherwise specified.
- Sign message of Cardinal Direction Marker (M6-1) shall be denoted by the following suffixes:
 - M6-1-N : NORTH
 - M6-1-E : EAST
 - M6-1-S : SOUTH
 - M6-1-W : WEST
- Auxiliary markers denoted with the suffix "I" (M4-1-I) shall have a white legend on a blue background.
- Cardinal Direction Marker (M6-1) with suffix I (3) shall have a white legend on a blue background and shall be 30" x 15" in size.
- For M1-3, and M1-4 signs, number in () indicates route number and shall be as shown on the plan.

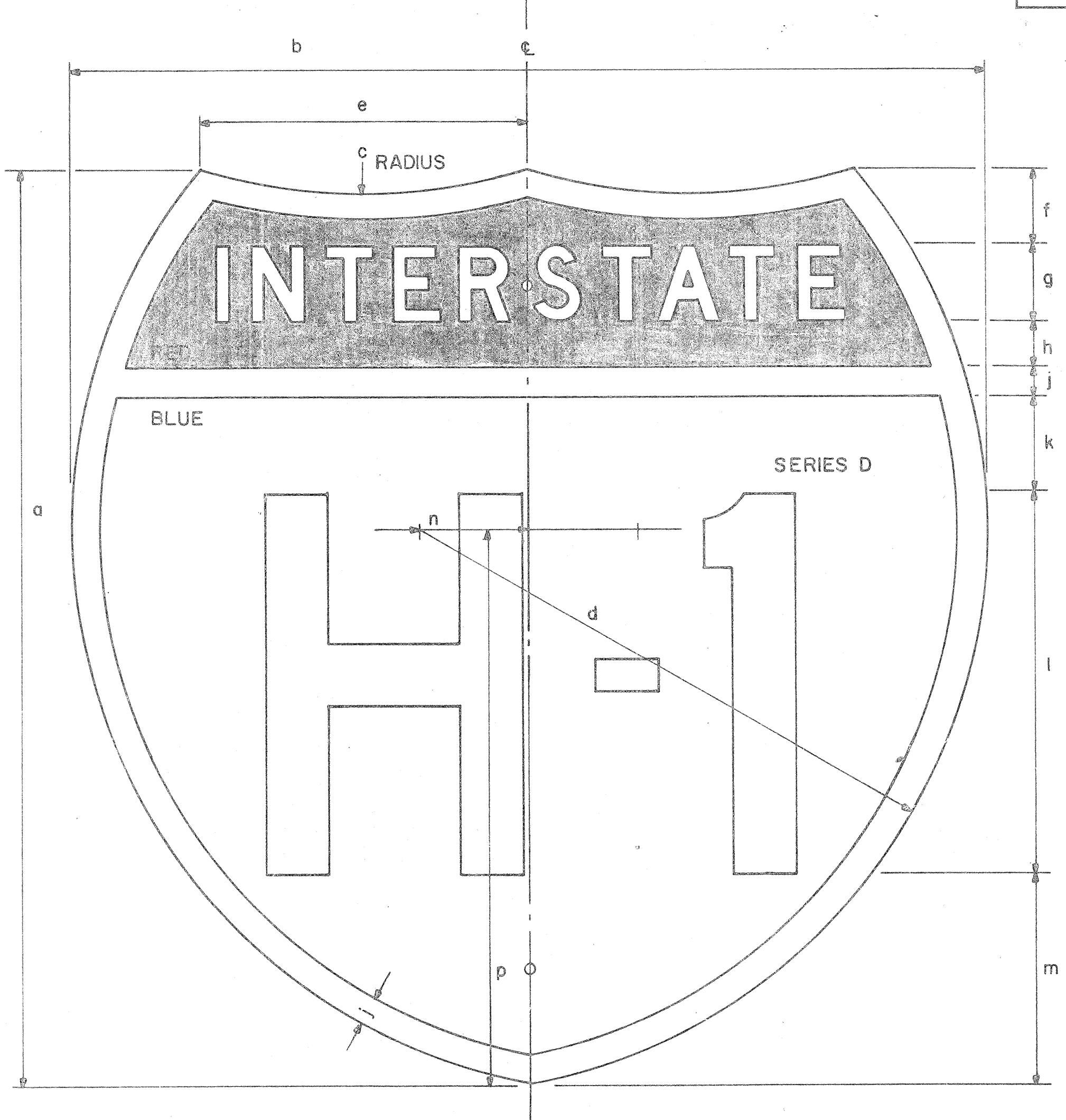
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD DETAILS
STATE ROUTE MARKERS
AND
AUXILIARY MARKERS
Scale: As Noted
SHEET NO. 24 OF 30 SHEETS



INTERSTATE ROUTE MARKER
IM-1 ()

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 ROUTE MARKER
IM-2 ()

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

GENERAL NOTES

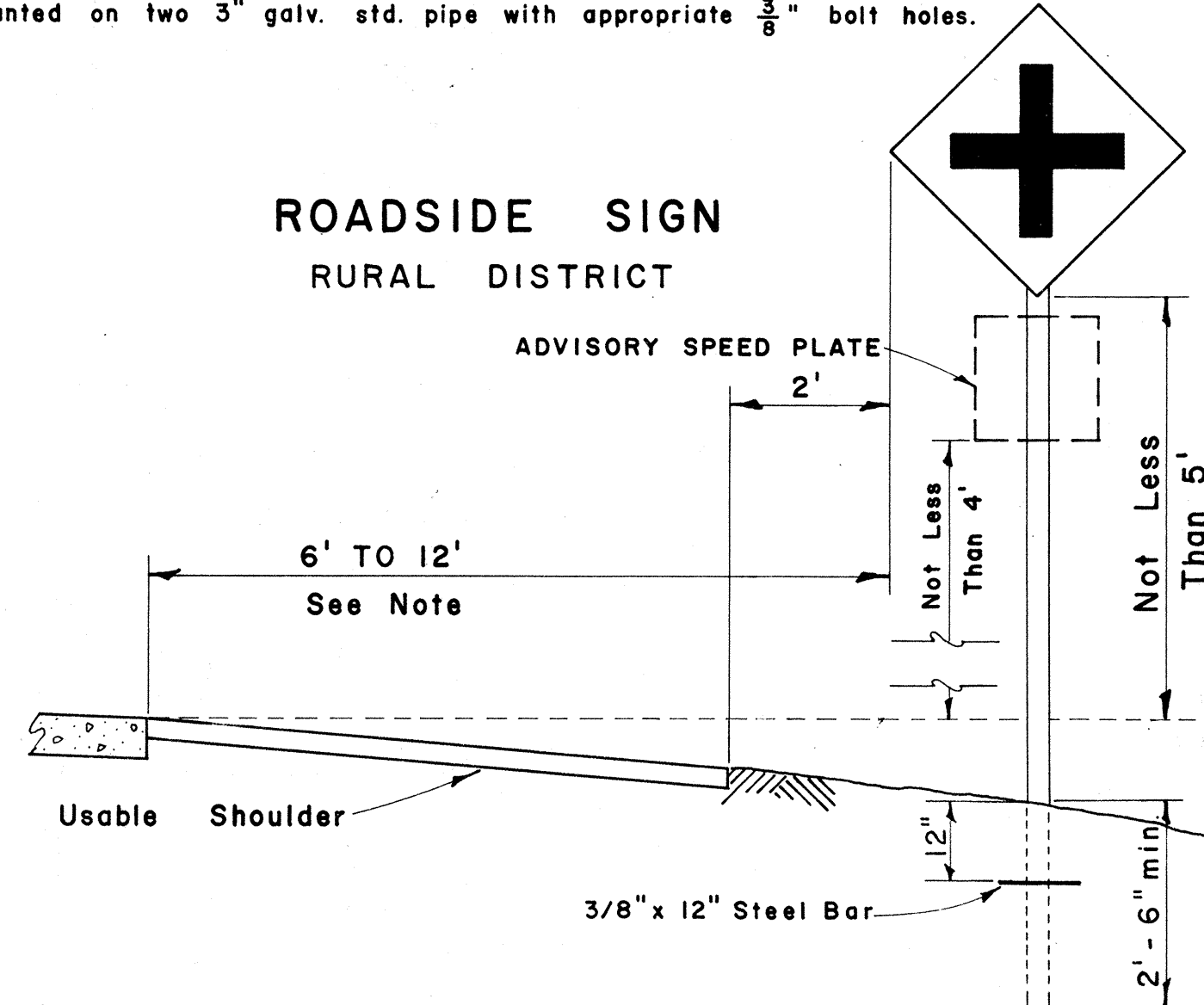
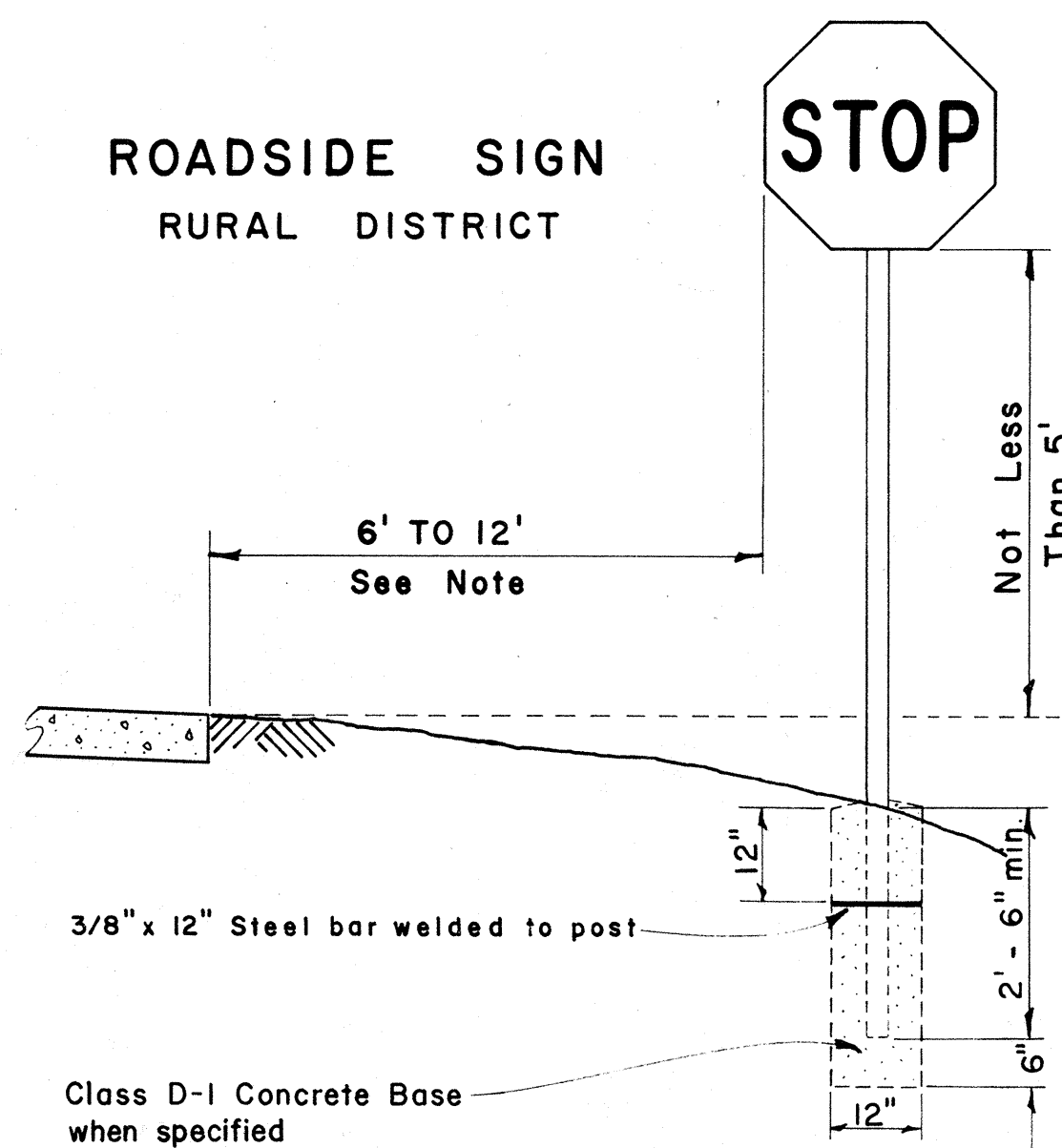
- The shape, color, dimensions, symbols, wording, lettering and reflectorizing of all signs shall be in accordance with the "Manual on Uniform Traffic Control Devices for Streets and Highways," dated June 1961 and the BPR manual "Standard Highway Signs," dated September 1961, unless otherwise specified.
- All letters and figures shall conform to the manual "Standard Alphabets for Highway Signs," Dept. of Commerce, Bureau of Public Roads, 1952.
- 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.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD DETAILS
INTERSTATE ROUTE MARKERS

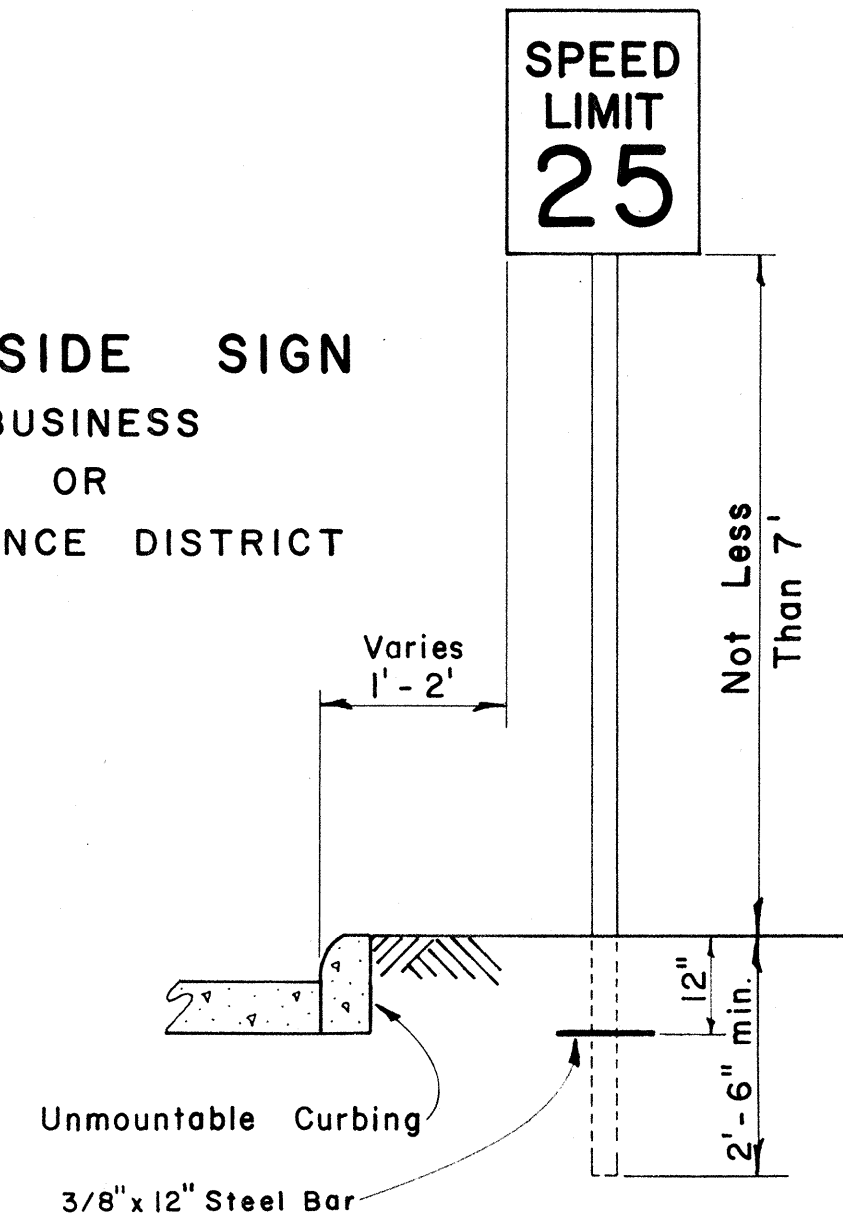
No Scale Date: Dec. 1965
SHEET No 25 OF 30 SHEETS

ORIGINAL PLAN
DATE
DRAWN BY
DESIGNED BY
NOTED BY
CHECKED BY
No.

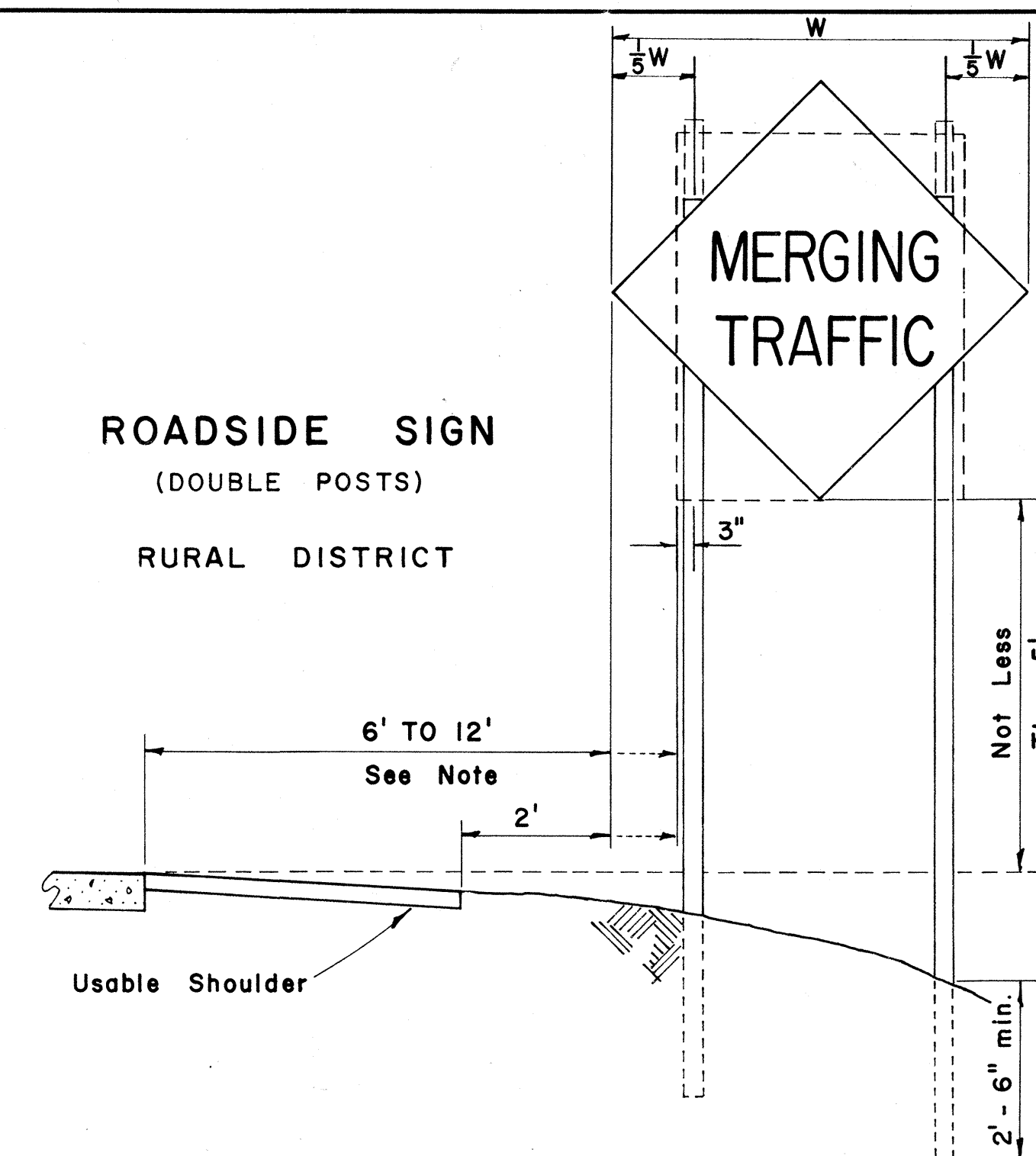
- NOTE:
1. All signs and road delineators shall be placed 2' outside the usable roadway shoulder or 1' outside unmountable curbing present and within the limits shown below.
 2. Except as noted below, sign posts shall be 3" galv. std. pipe for signs larger than 24" in any dimension and 2" galv. std. pipe for signs not over 24" in any dimension, with two $\frac{3}{8}$ " ϕ bolt holes or adjustable band brackets.
 3. Sign shall be attached to post with $\frac{5}{16}$ " galvanized carriage bolts with nuts and $\frac{7}{8}$ " x $\frac{7}{8}$ " x .120 stainless-steel washers with neoprene rubber gasket.
 4. Clearance Markers (RM-4, RM-3) shall be installed with the inside edge of the marker in line with the inner edge of the obstruction.
 5. Signs 48" and wider or larger than 10 sq. ft. in area shall be mounted on two 3" galv. std. pipe with appropriate $\frac{3}{8}$ " bolt holes.



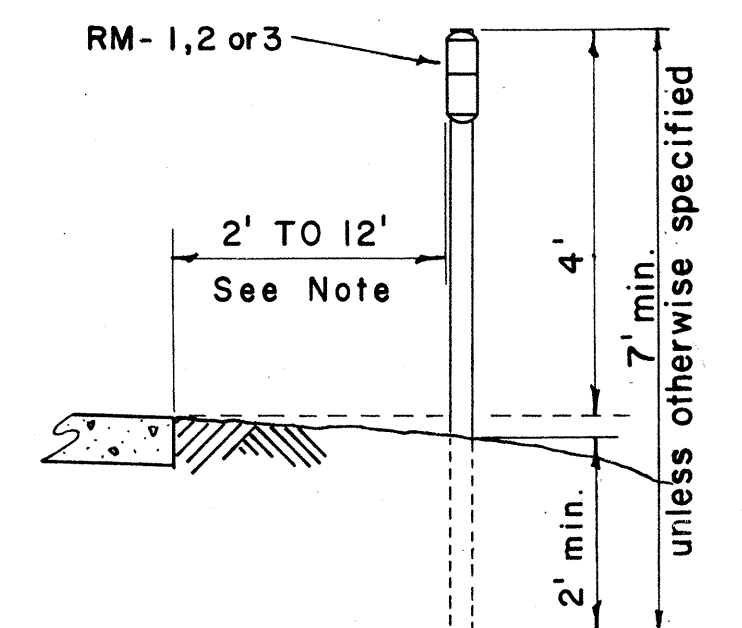
ROADSIDE SIGN
BUSINESS
OR
RESIDENCE DISTRICT



ROADSIDE SIGN
(DOUBLE POSTS)
RURAL DISTRICT

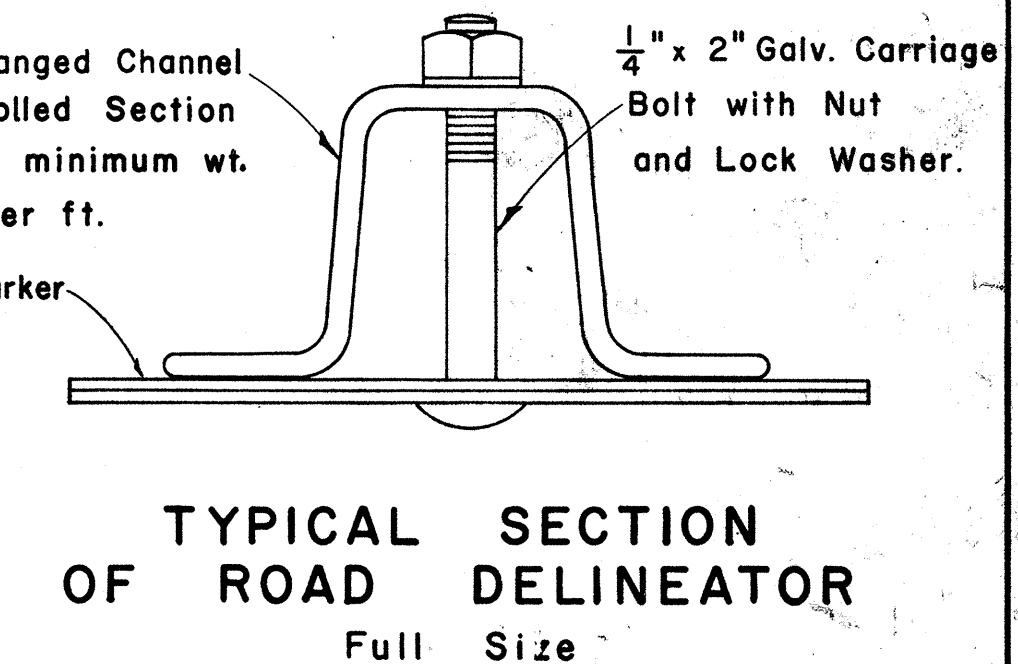
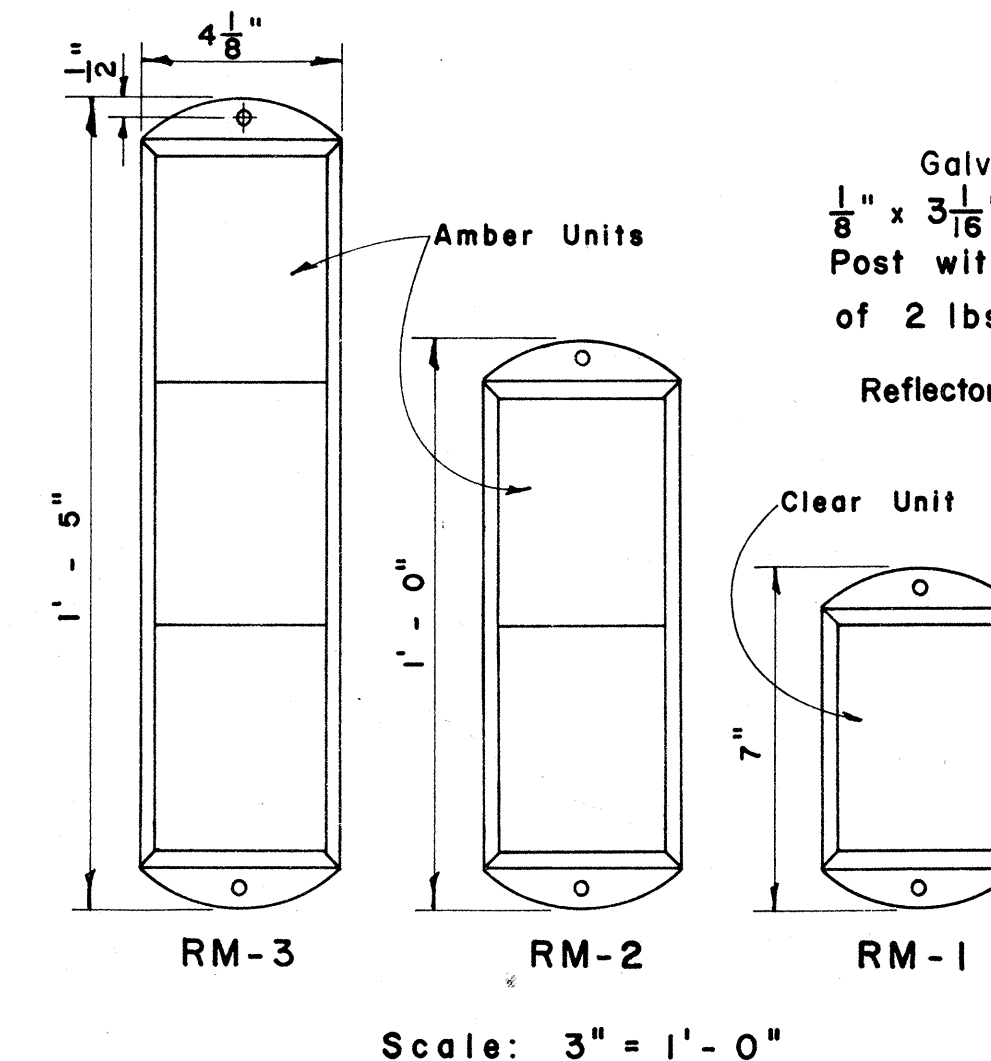
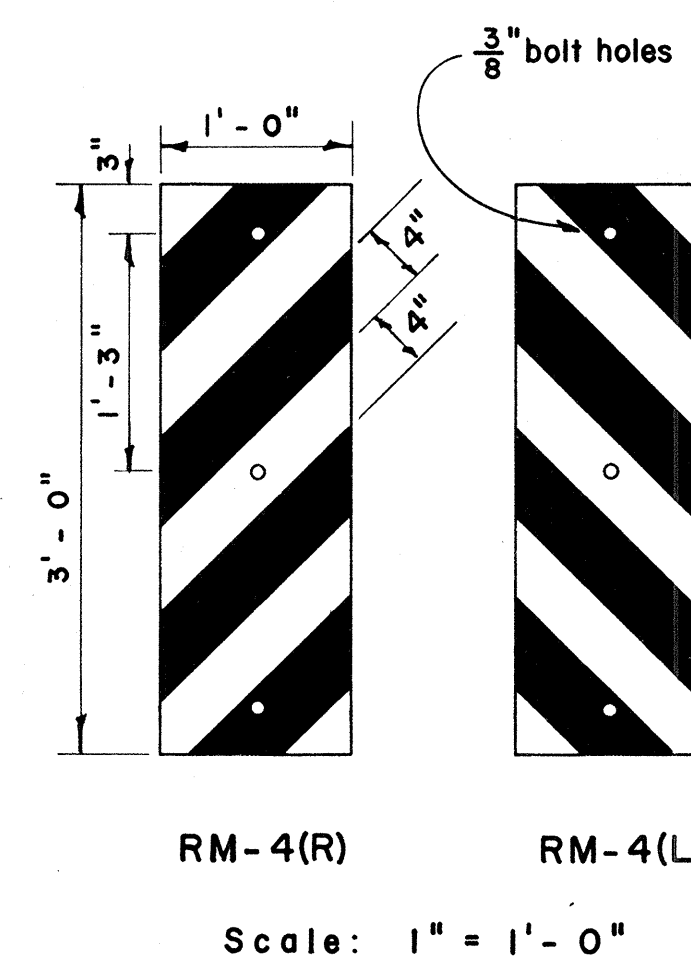
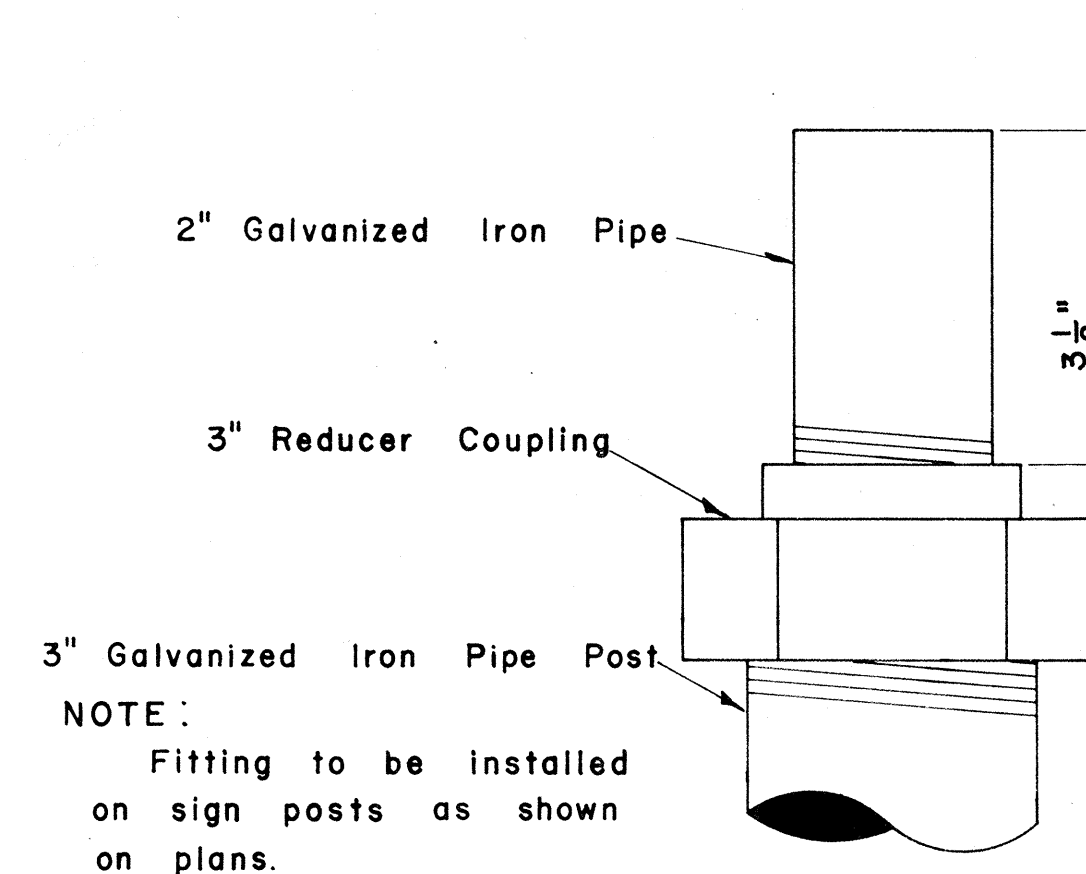
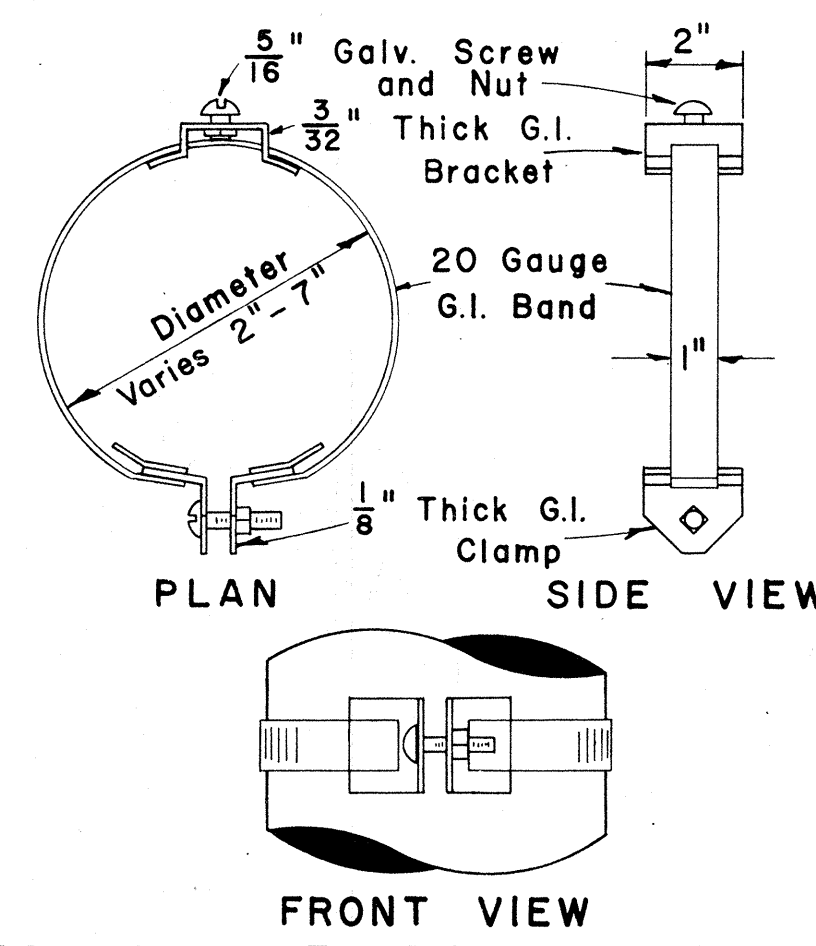
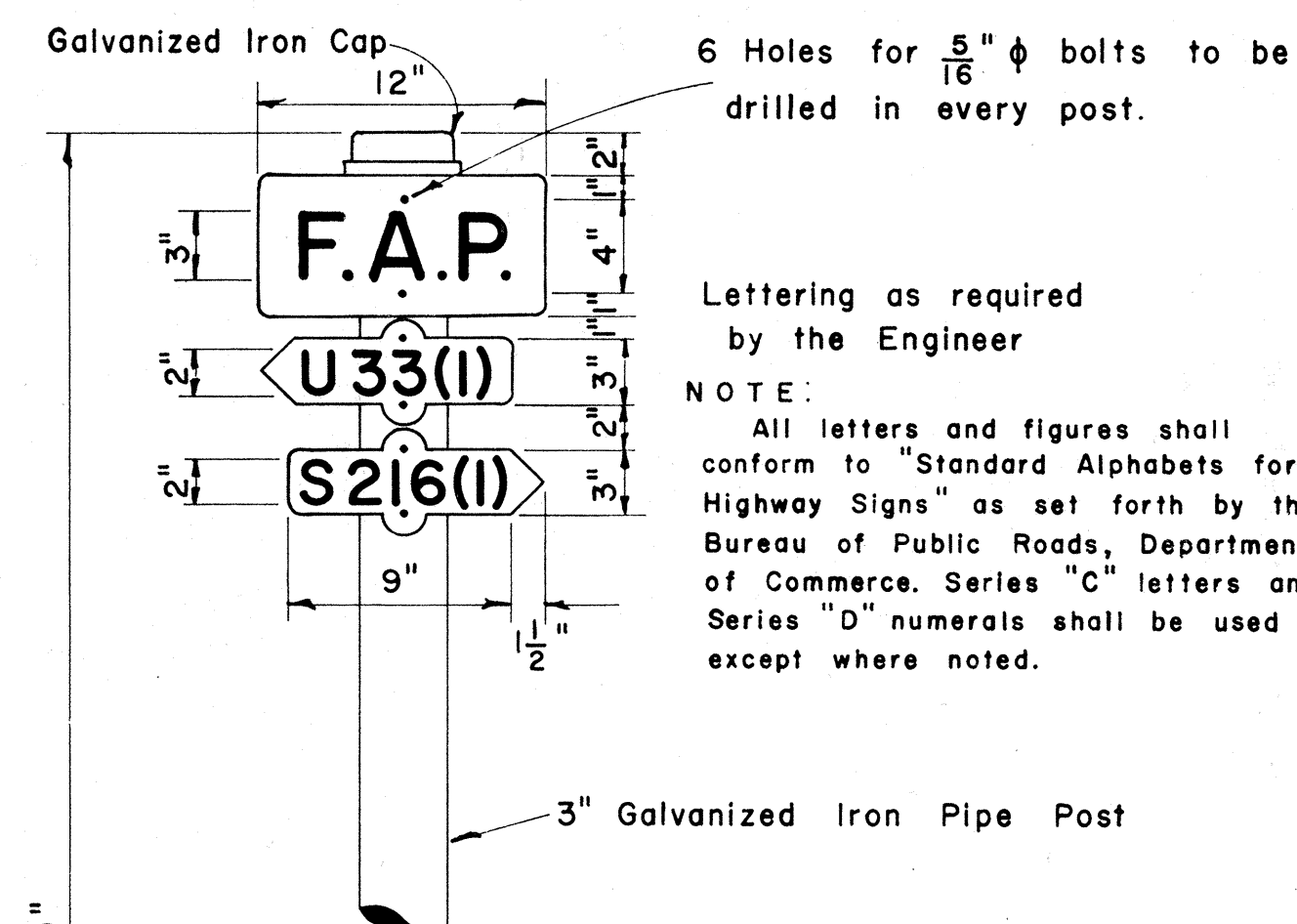


ROAD DELINEATOR

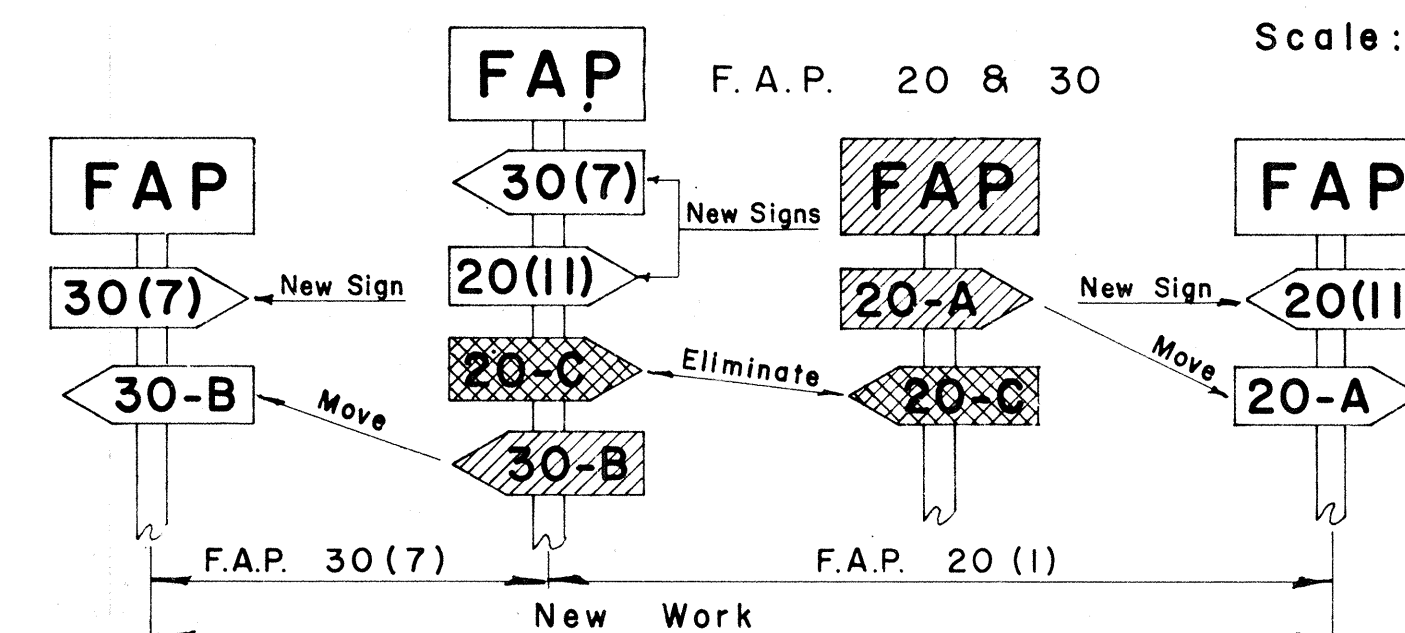
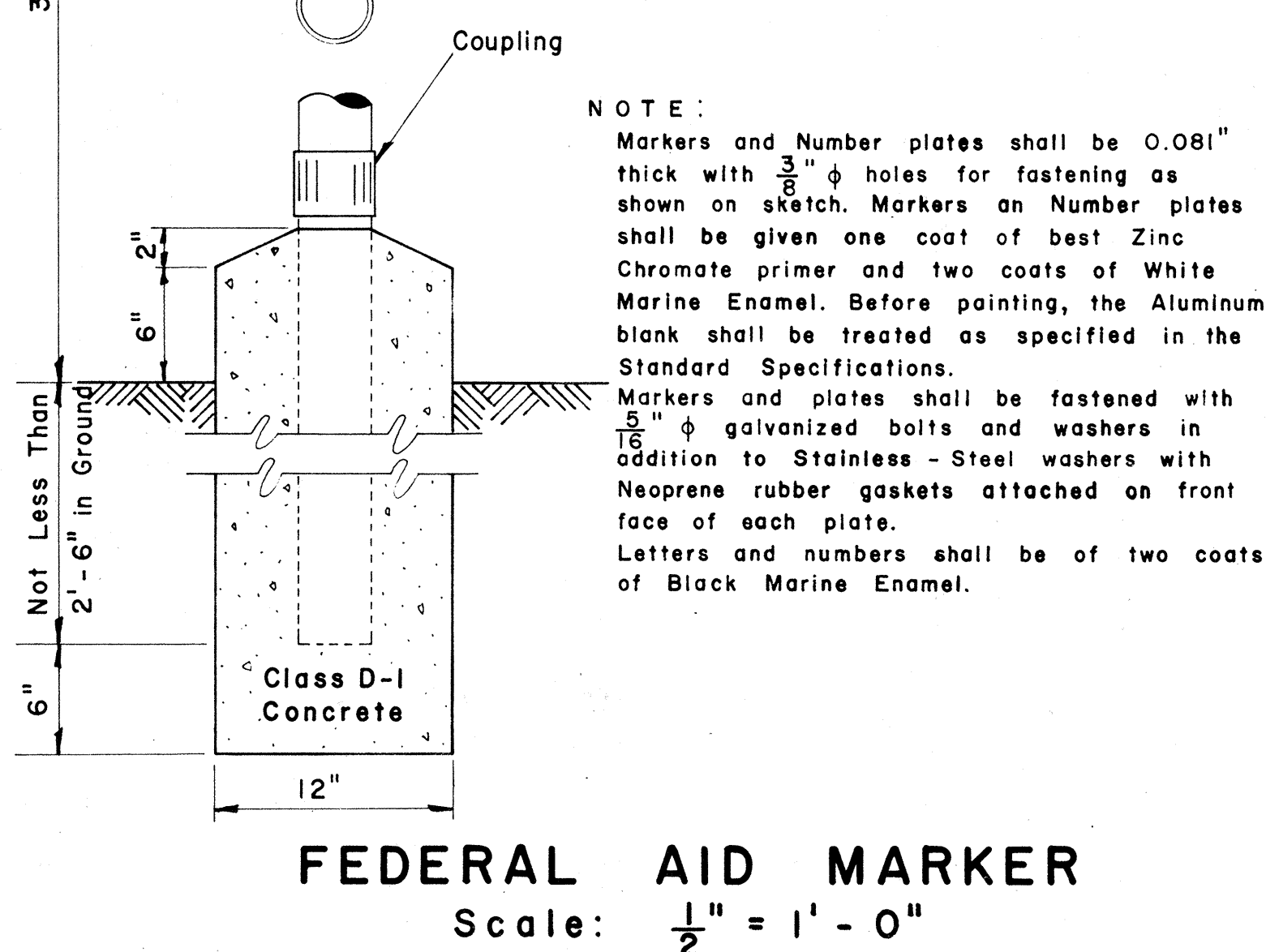


HEIGHT AND LATERAL LOCATION OF SIGNS - TYPICAL INSTALLATIONS

Scale: $\frac{1}{2}$ " = 1' - 0"

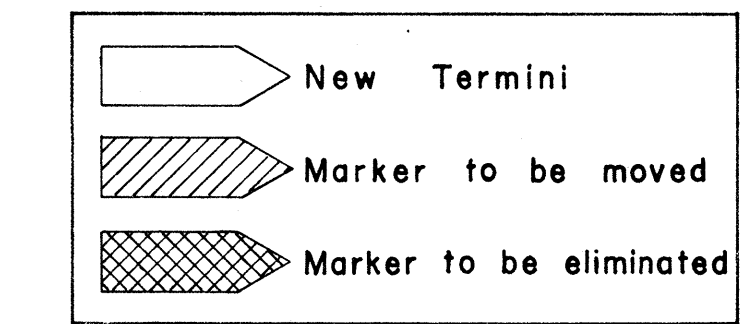
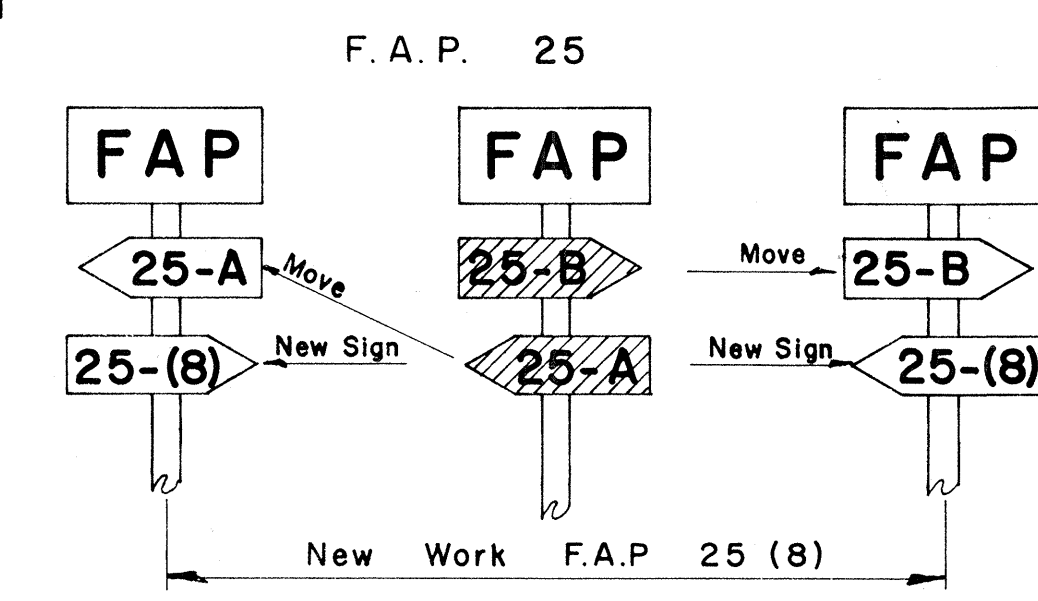


- NOTE:
1. Reflector Units for RM-1, 2, 3 shall be 4" x 5" in size and shall consist of reflective sheeting encapsulated in acrylic plastic.
 2. The upper 2 feet of the Galvanized Flanged Channel shall have a single row of $\frac{3}{8}$ " holes centered in the web and spaced 1 inch on centers.



NOTE:

Federal Aid Markers should be placed at the termini of suffix designated sections. Intermediate letter designated markers of adjacent sections located within the limits of new improvements should be moved to the termini of the new work. The same procedure should be followed on each successive improvement until all markers for letter designated sections are eventually eliminated.



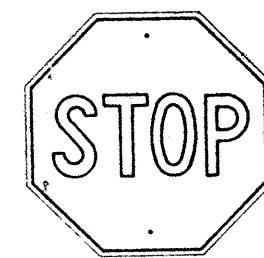
APPROVED: _____ DATE: _____
DIRECTOR OF TRANSPORTATION

REVISED: JULY 3, 1963

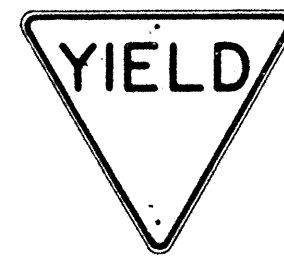
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION
STANDARD DETAILS
F. A. MARKER
AND
MISCELLANEOUS SIGN
DETAILS

Scale: As Shown Date: Dec. 1963

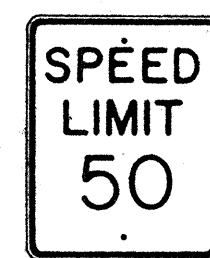
SHEET No. 26 OF 30 SHEETS



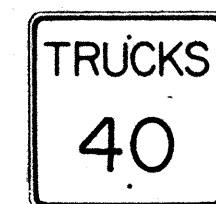
R1-1 30"x 30"



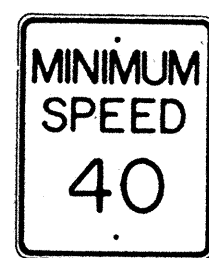
R1-2 36"x36"x36"
R1-2-E 48"x48"x48"
R1-2-I 60"x60"x60"



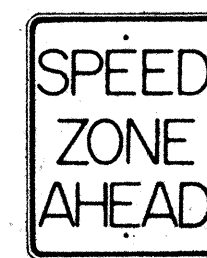
R2-1(50) 24"x 30"
R2-1(50)-E 36"x48"
R2-1(50)-I 48"x60"



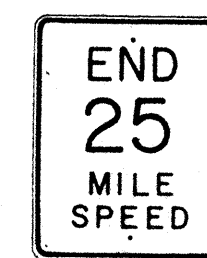
R2-2(40) 24"x 24"
R2-2(40)-E 36"x36"
R2-2(40)-I 48"x48"



R2-4(40) 24"x 30"
R2-4(40)-E 36"x48"
R2-4(40)-I 48"x60"



R2-5 24"x 30"
R2-5-E 36"x48"
R2-5-I 48"x60"



R2-6(25) 24"x 30"
R2-6(25)-E 36"x48"
R2-6(25)-I 48"x60"



R2-7 24"x 30"
R2-7-E 36"x48"
R2-7-I 48"x60"



R3-1 24"x 30"
R3-1-E 36"x48"



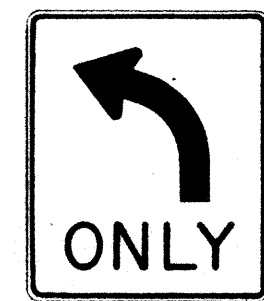
R3-2 24"x 30"
R3-2-E 36"x48"



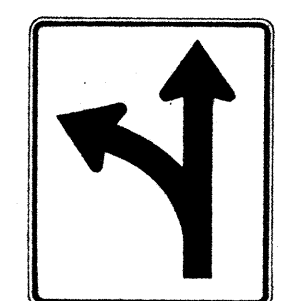
R3-3 24"x 24"



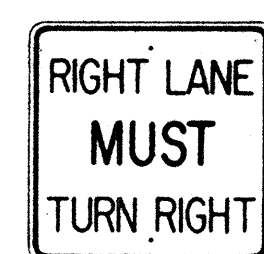
R3-4 24"x 30"
R3-4-E 36"x48"
R3-4-I 48"x60"



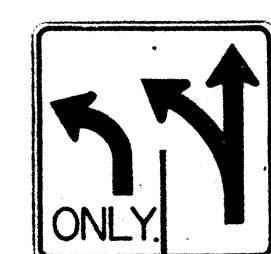
R3-5(L) 30"x 36"



R3-6(L) 30"x 36"



R3-7(R) 30"x 30"



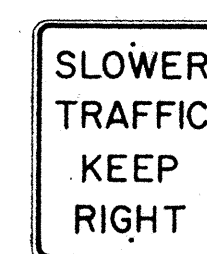
R3-8(L) 30"x 30"



R4-1 24"x 30"



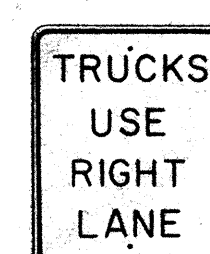
R4-2 24"x 30"



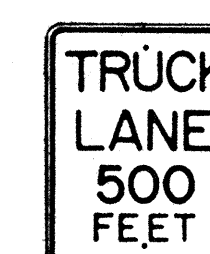
R4-3 24"x 30"
R4-3-E 36"x48"
R4-3-I 48"x60"



R4-4 24"x 30"
R4-4-E 36"x48"
R4-4-I 48"x60"



R4-5 24"x 30"
R4-5-E 36"x48"



R4-6 24"x 30"
R4-6-E 36"x48"



R4-7(R) 24"x 30"
R4-7(R)-E 36"x48"



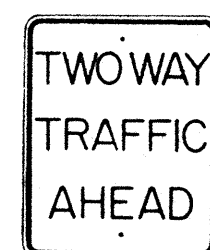
R5-1 24"x 24"



R6-1(R) 36"x 12"



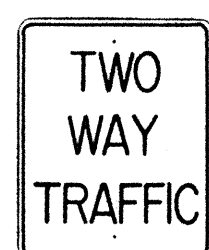
R6-2(R) 18"x 24"



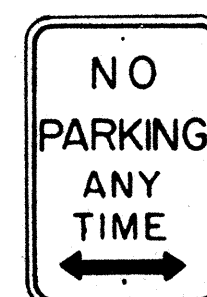
R6-3 24"x 30"



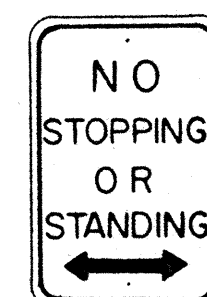
R6-4 24"x 30"



R6-5 24"x 30"



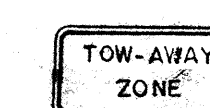
R7-1 12"x 18"



R7-4 12"x 18"
R7-4-E 24"x30"



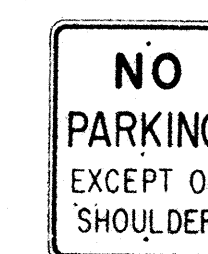
R7-107(R) 12"x 18"



R7-201 12"x 6"



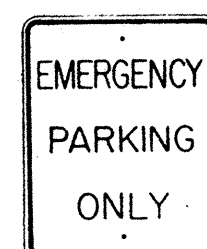
R8-1 24"x30"
R8-1-E 36"x48"
R8-1-I 48"x60"



R8-2 24"x30"
R8-2-E 36"x48"



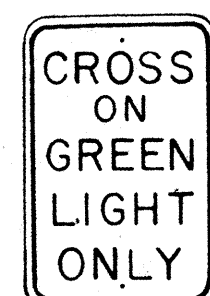
R8-3 24"x30"
R8-3-E 36"x48"



R8-4 24"x30"
R8-4-E 36"x48"
R8-4-I 48"x36"



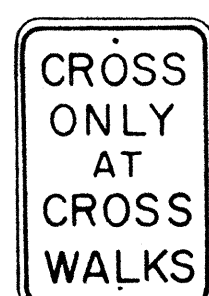
R9-1 18"x24"



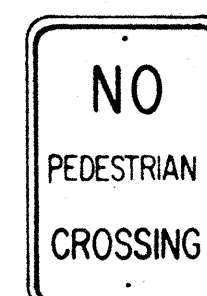
R9-2 12"x 18"



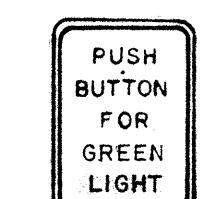
R9-3 12"x 18"



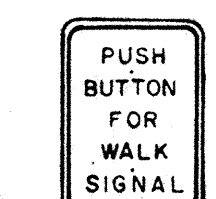
R9-4 12"x18"



R9-5 12"x18"



R9-6 9"x 12"



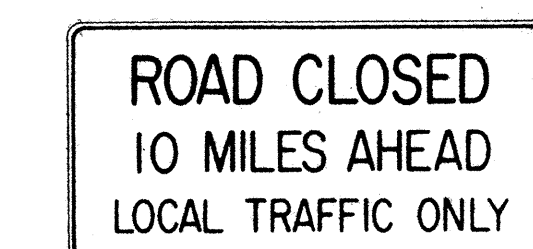
R9-7 9"x12"



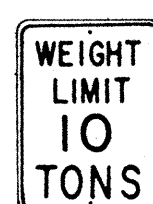
R10-1 24"x30"
R10-1-E 36"x48"
R10-1-I 48"x60"



R10-2 48"x 30"



R10-3(10) 60"x 30"



R10-4(10) 18"x 24"

NOTE:

1. The shape, color, dimensions, symbols, wording, lettering and reflectorization 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.
2. All regulatory signs shall be reflectorized unless otherwise specified.
3. All regulatory signs shall have $\frac{3}{8}$ " bolt holes drilled at appropriate locations unless otherwise noted.
4. The suffix "E" denotes Expressway signs and "I" denotes Interstate signs.
5. For R2 signs, number in () indicates speed and shall be as shown on the plans.
6. (R) or (L) indicates right or left and shall be as shown on the plans.
7. For R10-4 sign, number in () indicates weight and shall be as shown on the plan.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

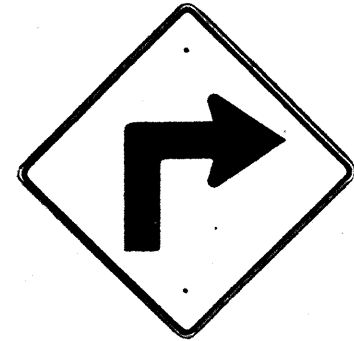
STANDARD DETAILS
REGULATORY SIGNS

NOT TO SCALE

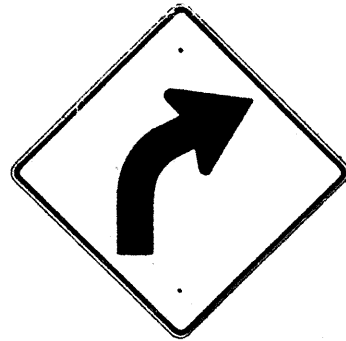
Date: Dec. 1965

SHEET No. 27 OF 30 SHEETS

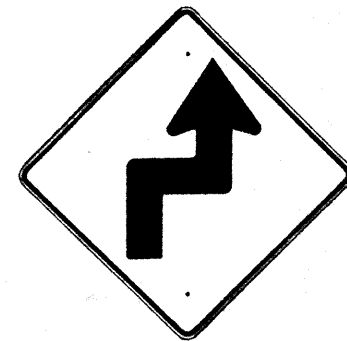
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	2-111-1(12)	1966	57	65



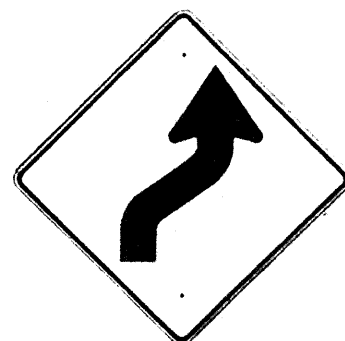
W1-1(R) 30" x 30"



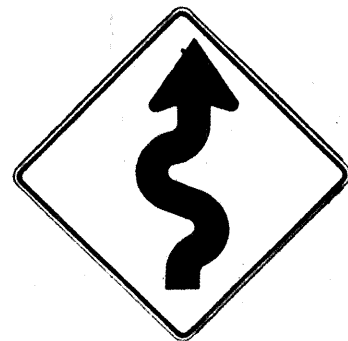
W1-2(R) 30" x 30"



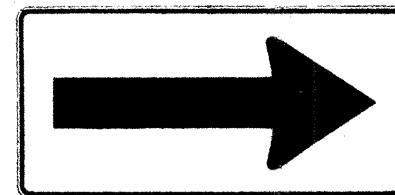
W1-3(R) 30" x 30"



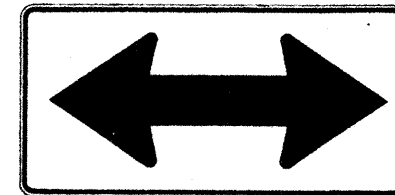
W1-4(R) 30" x 30"



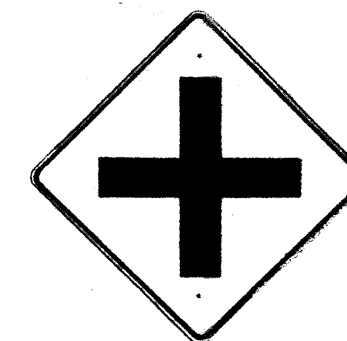
W1-5(R) 30" x 30"



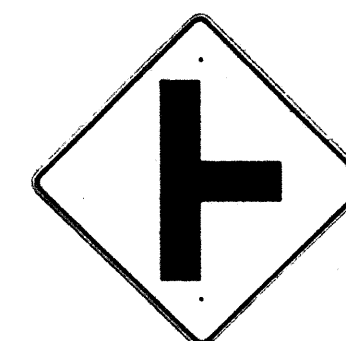
W1-6 48" x 24"



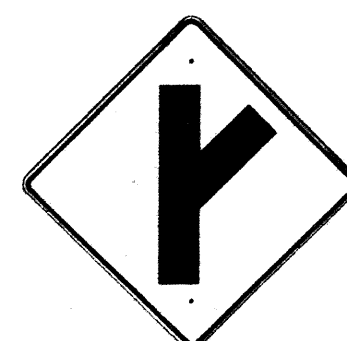
W1-7 48" x 24"



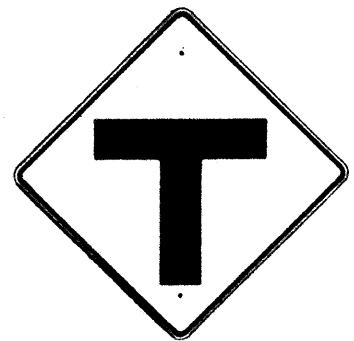
W2-1 30" x 30"



W2-2 30" x 30"



W2-3(R) 30" x 30"



W2-4 30" x 30"



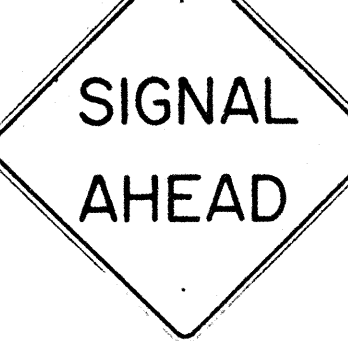
W2-5 30" x 30"



W3-1 30" x 30"



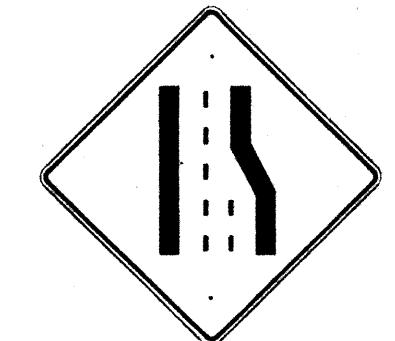
W3-2 30" x 30"



W3-3 36" x 36"



W4-1 30" x 30"
W4-1-E 36" x 36"
W4-1-I 48" x 48"



W4-2 30" x 30"
W4-2-E 36" x 36"



W5-1 30" x 30"
W5-1-E 36" x 36"



W5-2 30" x 30"



W5-3 30" x 30"



W6-1 36" x 36"



W6-2 36" x 36"



W7-1 30" x 30"



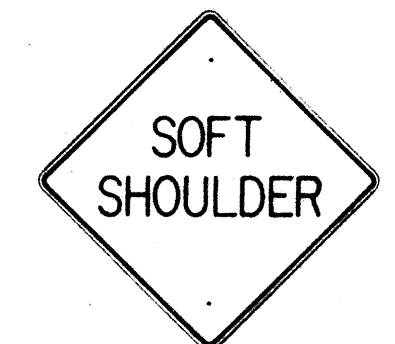
W8-1 30" x 30"



W8-2 30" x 30"



W8-3 30" x 30"



W8-4 30" x 30"



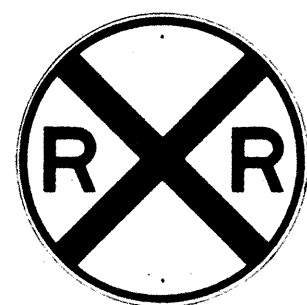
W8-5 30" x 30"



W9-1 30" x 30"



W9-2 30" x 30"



W10-1 36" DIAMETER



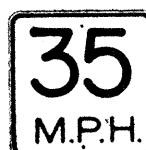
W11-1 30" x 30"



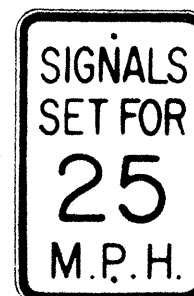
W11-5 30" x 30"



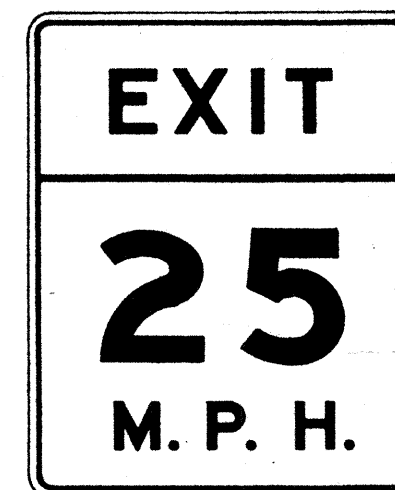
W12-2 36" x 36"



W13-1(35) 18" x 18"



W13-2(25) 12" x 18"



W13-3(25) 48" x 60"

NOTE:

1. The shape, color, dimensions, symbols, wording, lettering and reflectorization 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.
2. All warning signs shall be reflectorized unless otherwise specified.
3. All warning signs shall have $\frac{3}{8}$ " bolt holes drilled at appropriate locations unless otherwise noted.
4. (R) or (L) indicates right or left and shall be as shown on the plan.
5. The suffix "E" denotes Expressway signs and "I" denotes Interstate signs.
6. For W13 sign, number in () indicates speed and shall be as shown on the plans.

ORIGINAL PLAN	DATE
DESIGNED BY	
CHECKED BY	
NOTED BY	
NO.	

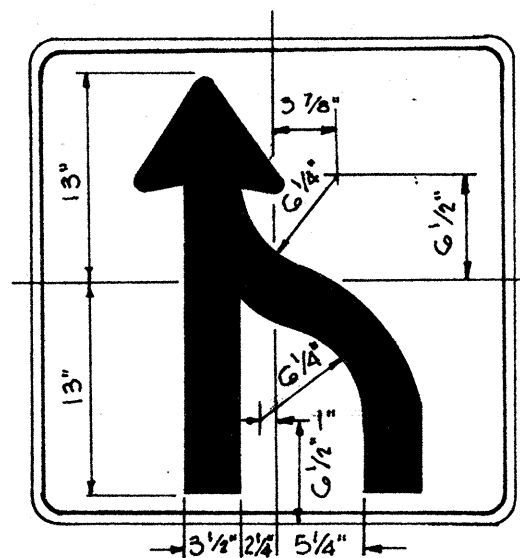
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
WARNING SIGNS

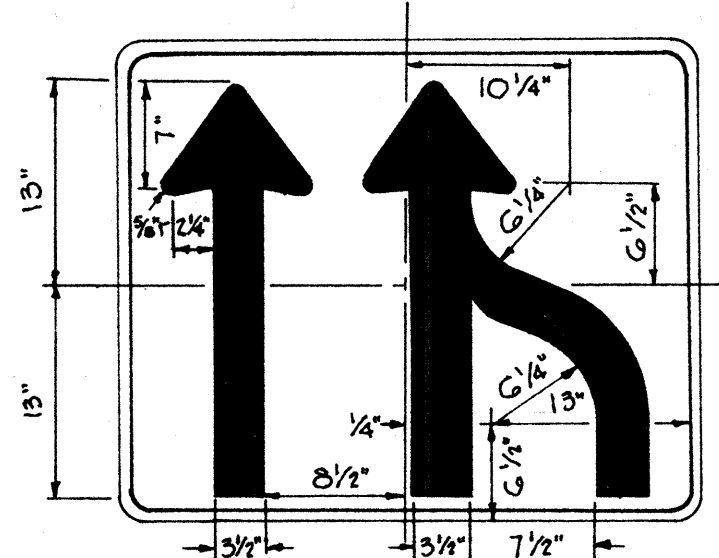
NOT TO SCALE
Date: Dec. 1965

SHEET No. 28 OF 30 SHEETS

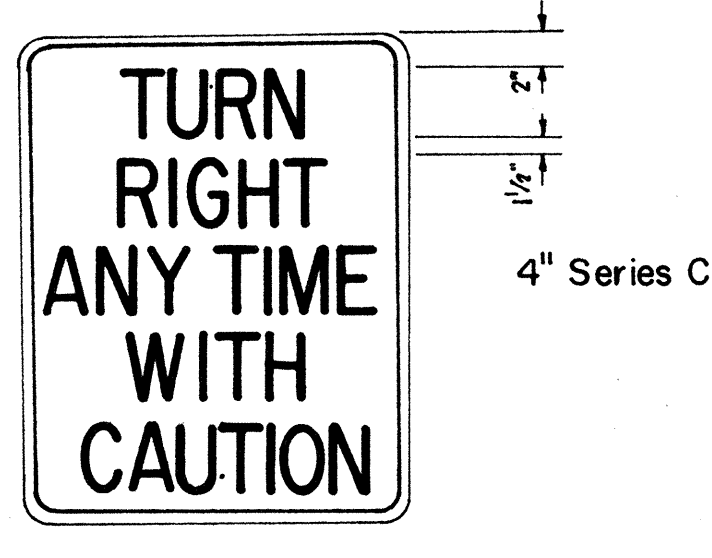
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-111-1(199)	1966	58	68



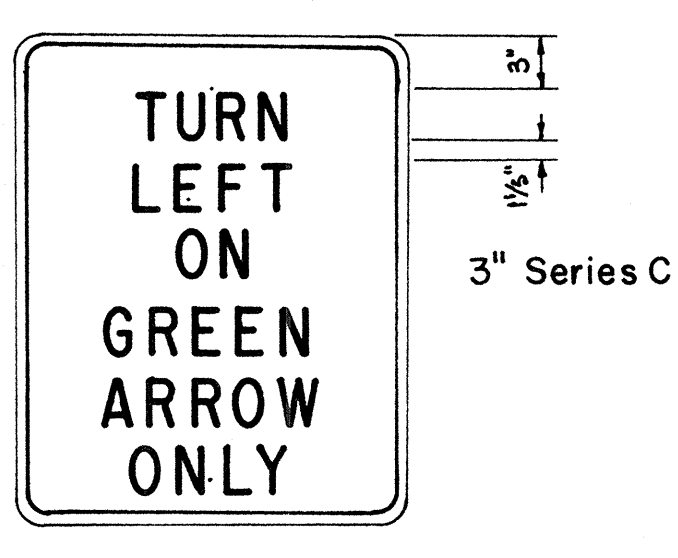
R3 - 9 30" x 30"



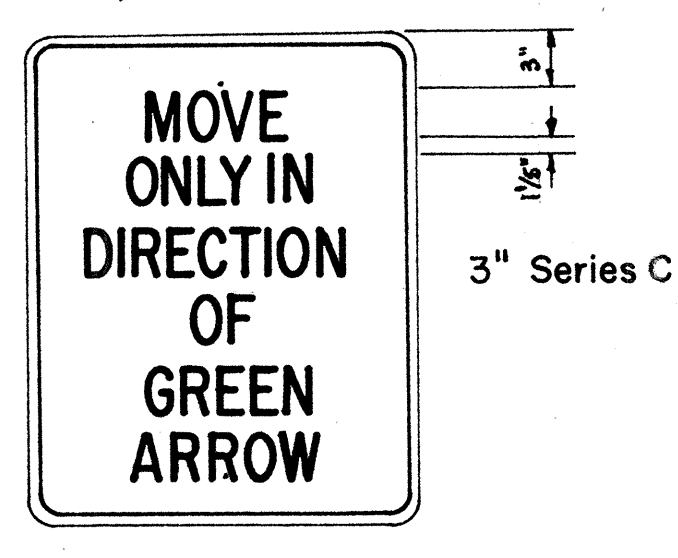
R3-10 36" x 30"



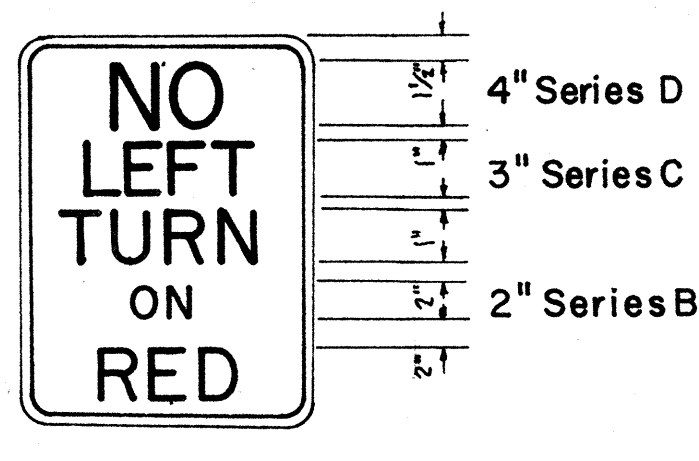
R15 - 1 24" x 30"



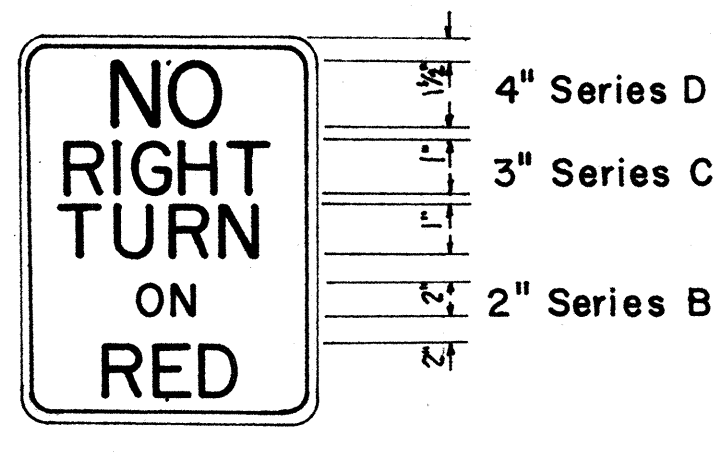
R16 - 1 24" x 30"



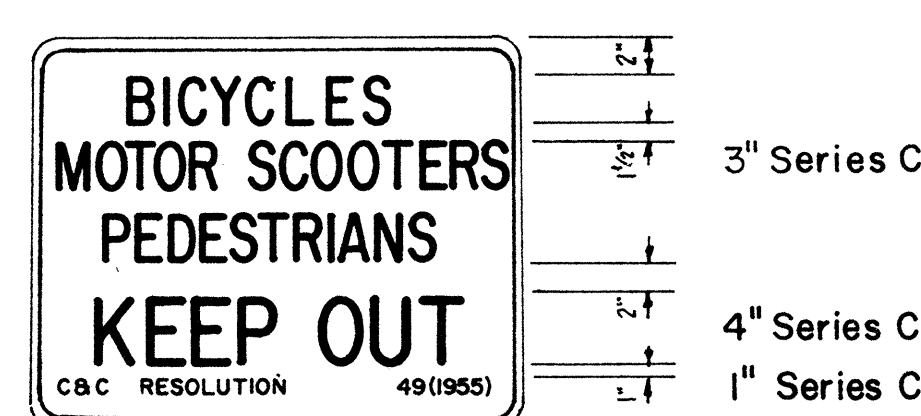
R16-2 24" x 30"



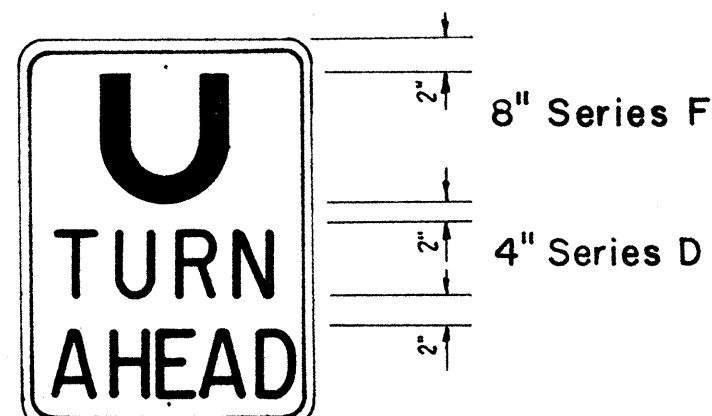
R17-1 18" x 24"



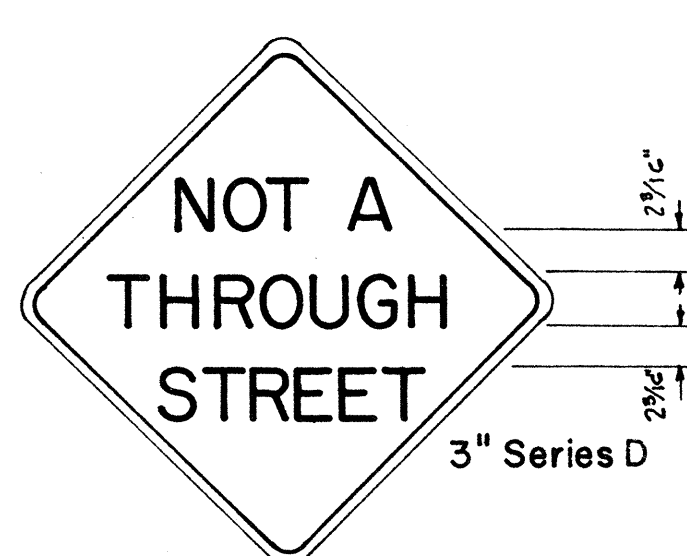
R17-2 18" x 24"



R18-1 30" x 24"



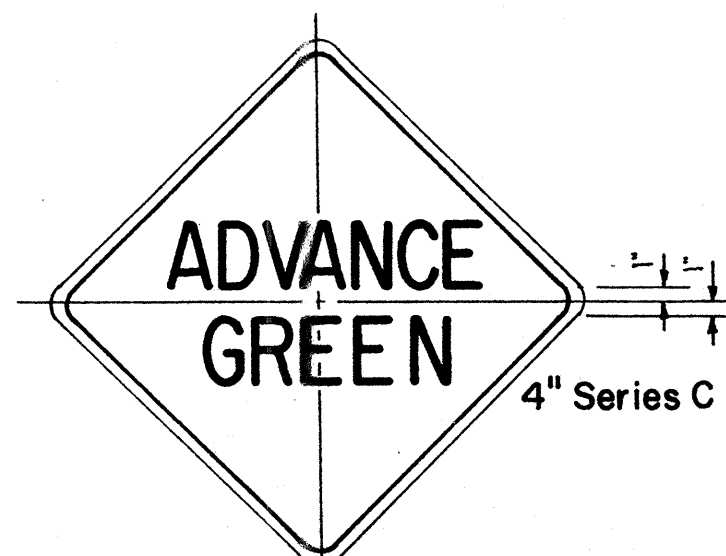
R19-1 18" x 24"



W13-4 24" x 24"



W15 - 1 24" x 24"



W15-2 24" x 24"

- NOTE:
1. The shape, color, plate details, lettering and reflectorization of Regulatory signs (Prefix R) and Warning signs (Prefix W) 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.
 2. All regulatory and warning signs shall be reflectorized unless otherwise specified.
 3. All regulatory and warning signs shall have 3/8" bolt holes drilled at appropriate locations unless otherwise noted.

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
DRAWN BY	DESIGNED BY	
NOTE BOOK	QUANTITIES BY	
CHECKED BY		

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
MISCELLANEOUS
REGULATORY & WARNING SIGNS

Scale: 1" = 1'- 0"
Date: Dec. 1965

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	1-HI-1(10)	1966	30	65



W7-2 48" x 48"



W8-7 30" x 30"



W14-1 30" x 30"



W20-1a 48" x 48"



W20-2d 48" x 48"



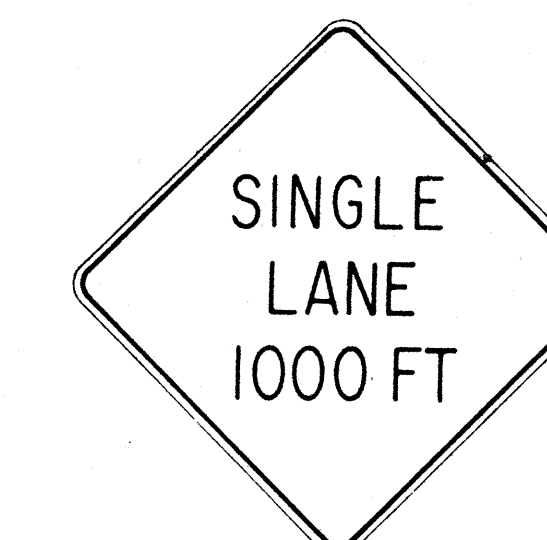
W20-3b 48" x 48"



W20-4d 48" x 48"



W20-5d(L) 48" x 48"



W20-6b 48" x 48"



W20-7c 48" x 48"



W21-1 30" x 30"



W21-2 24" x 24"



W21-3 36" x 36"



W21-4 30" x 30"



W21-5 30" x 30"



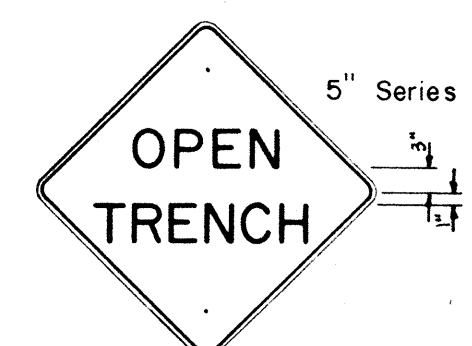
W21-6 30" x 30"



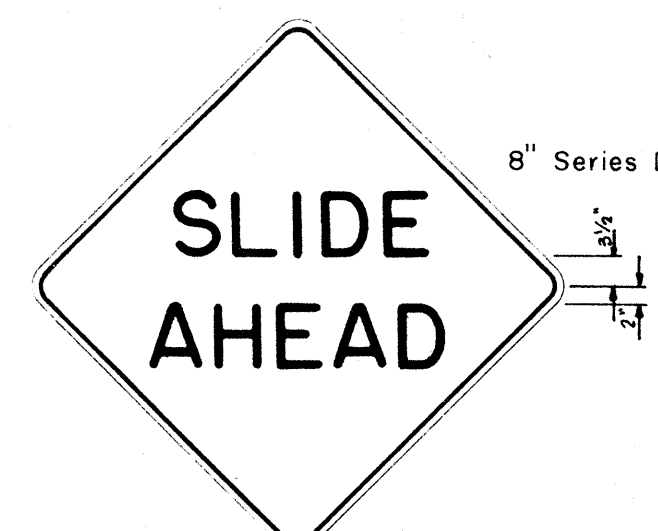
W22-1 30" x 30"



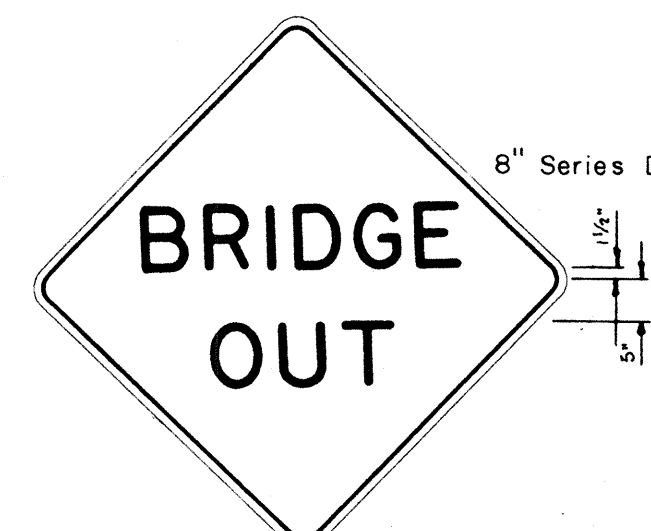
W22-2 30" x 30"



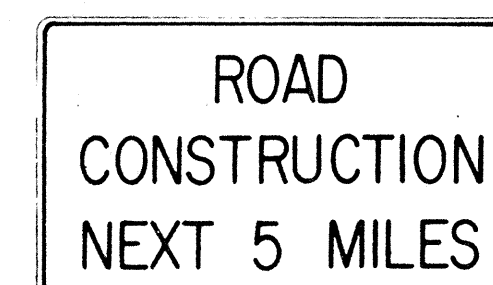
W22-3 30" x 30"



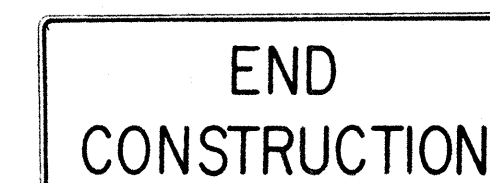
W22-4 48" x 48"



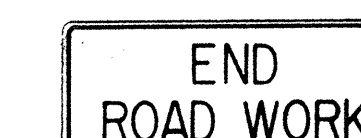
W22-5 48" x 48"



G20-1(5) 60" x 36"



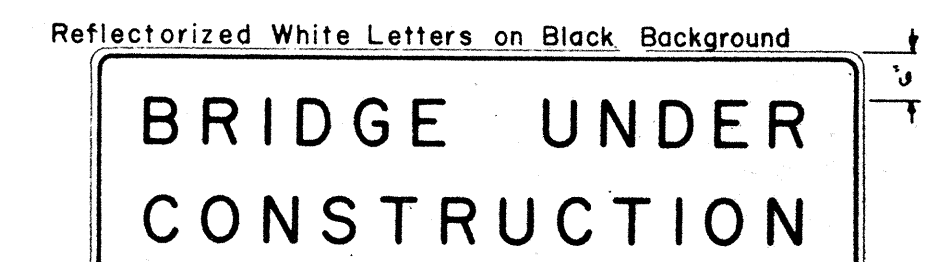
G20-2 60" x 24"



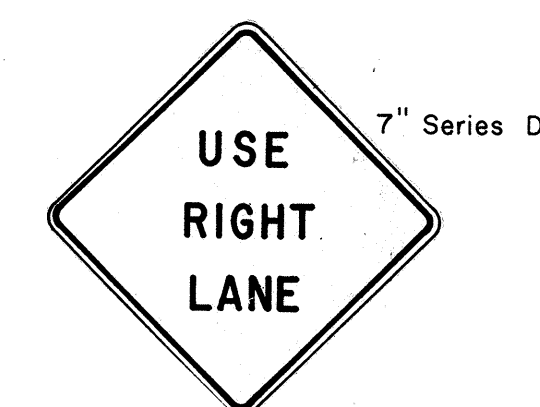
G20-3 42" x 18"



M5-7(L) 48" x 18"



CW-1 96" x 30"



W20-8 48" x 48"

NOTE:

- The shape, color, dimensions, symbols, wording, lettering and reflectorization 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 signs shall be reflectorized unless otherwise specified.
- All signs shall have $\frac{3}{8}$ " bolt holes drilled at appropriate locations unless otherwise noted.
- For W20 series signs, suffixes a, b, c and d are as follows: a 1500 FT, b 1000 FT, c 500 FT and d AHEAD.
- (R) or (L) indicates right or left and shall be as shown on the plans.
- Number in () indicates miles and shall be as shown on the plans.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS CONSTRUCTION SIGNS

NOT TO SCALE

Date: Dec. 1965

SHEET No. 30 OF 30 SHEETS

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