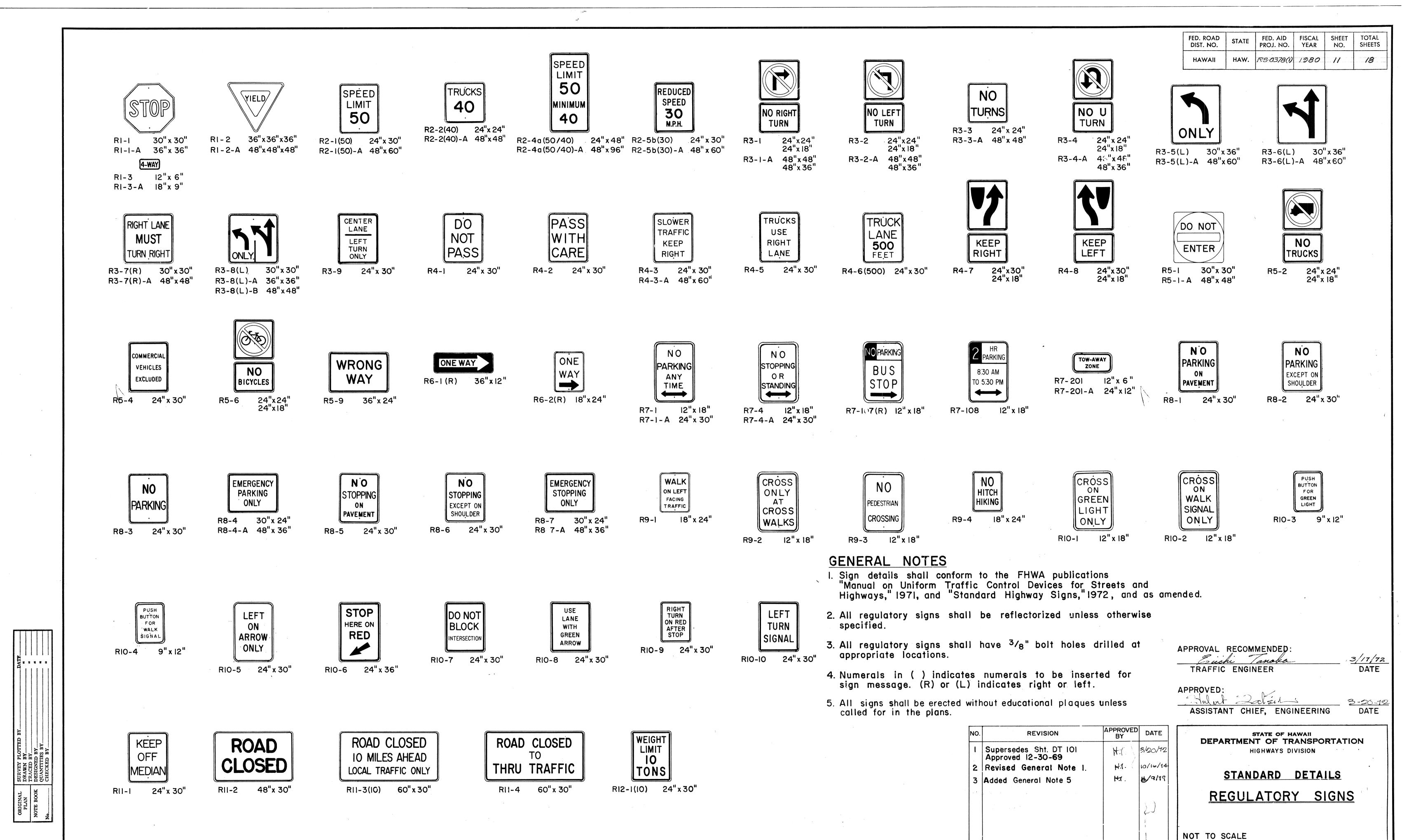


K-E TRACING PAPER

10



HIPE IMPERIAL M LA 3207

SHEET No. 2 OF 9 SHEETS DT 101



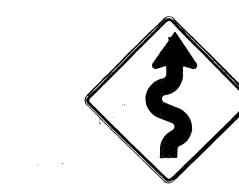
WI-I(R) 30"x30" WI-I(R)-A 48"x48"



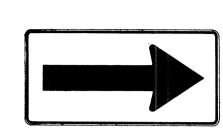
WI-2(R) 30"x 30" WI-2(R)-A 48"x 48"



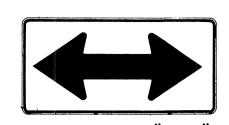
WI-3(R) 30"x30" WI-3(R)-A 48"x48" WI-4(R) WI-4(R)-A 48"x48"

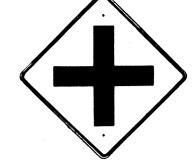


WI-5(R) 30"x30" WI-5(R)-A 48"x48"

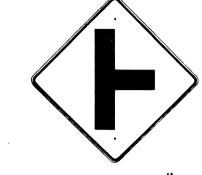


48"x 24"

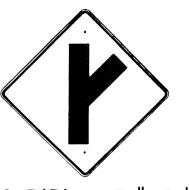




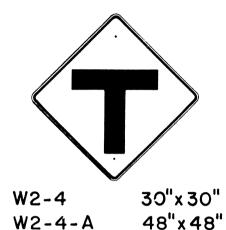
W2-1 W2-1-A 30"x 30"



W2-2 W2-2-A 48"x 48"

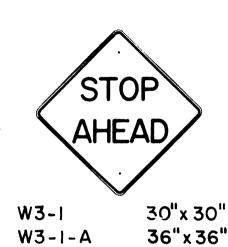


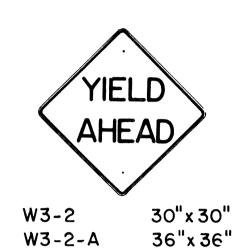
W2-3(R) W2-3(R)-A 48"x48"



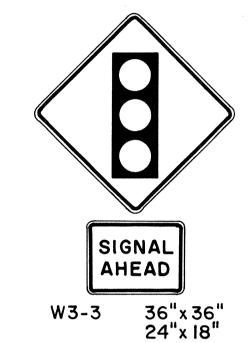
30"x 30" W2-5 48"x 48"

W2-5-A



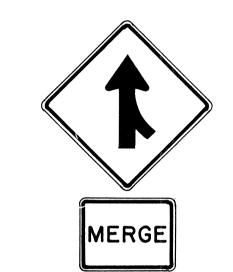


30"x30"



USE LOW GEAR

24"x 18"



W4-2(R) 36"x36" W4-2(R)-A 48"x48"

ROAD

W5-1 36"x 36"



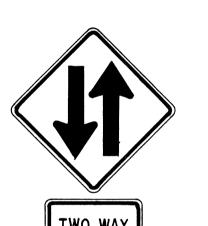
30"x 30" W5-2 W5-2-A



DIVIDED HIGHWAY 36"x 36" 24"x 18'



DIVIDED HIGHWAY ENDS 36"x 36" 24"x 18"



**3**0"x 30" 24"x 18" W6-3-A 36"x 36" 24" x 18" W6-3-B 48"x 48" 24"x 18"

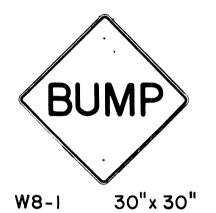
25

M.P.H.

TRAFFIC



30"x 30" 24"x 18" W7-I-A 36"x 36" 24"x 18"

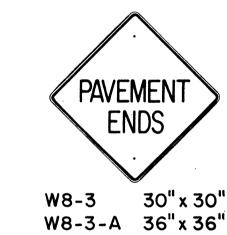


36"x 36"

W4-I(R)-A 48"x 48" 24"x 18"

30" x 30" 24" x 18"

W8-2 30" x 30" W8-2-A 36" x 36"



GENERAL NOTES

W8-4 30" x 30" W8-4-A 36" x 36"



24"x 18" W8-5-A 36"x 36" 24"x 18"



W9-I(R) 30" x 30" W9-I(R)-A 36"x 36" W9-I(R)-B 48"x48".



36"x 36" WIO-I 36" Diameter W9-2(L)-A 48"x 48"



BIKE

XING

WII-I 30"x 30"

WII-I-A 36"x36" 24"x18"

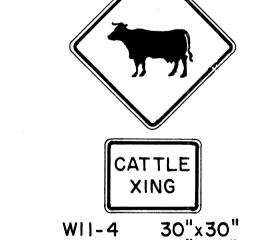
24"x 18"



W7-2



WII-2-A 36"x36" 24"x18"



24"x 18"

WII-4-A 36"x36" 24"x18"





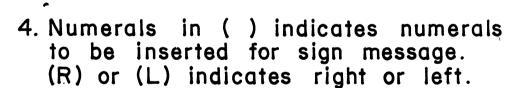


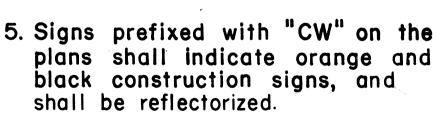
**30**"x30" 24"x 18" WII-5-A 36"x36" 24"x18"

"Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, and "Standard Highway Signs," 1972, and as amended. 2. All warning signs shall be reflectorized unless otherwise specified.

I. Sign details shall conform to the FHWA publications

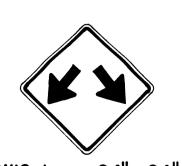
3. All warning signs shall have 3/8" bolt holes drilled at appropriate locations.





3/17/12
DATE
3-20-12

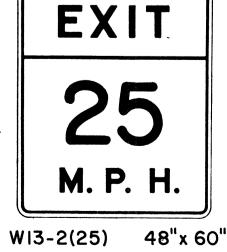
ASSISTANT CHIEF, ENGINEERING



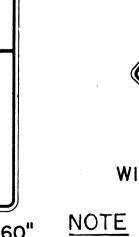
24" x 24" W12-1 WI2-I-A 36"x 36" WI2-I-B 48"x 48"



WI3-I(25) 18" x 18" WI3-I(25)-A 24" x 24" LOW CLEARANCE W12-2(12'-6") 36" x 36" 24" x 18"



RAMP 25 M. P. H. W13-3(25) 48"x 60"





All signs shall be erected without educational plaques unless called for in the plans.

NO.	REVISION	APPROVED BY	DATE
-	Supersedes Sht. DT 102 Approved 12-30-69	H.T.	3/20/1
2	Revised General Note I	H1.	10/16/4
3	Revised General Note 5	M	9-16-7.
4	Revised General Note 5	14.7.	9-14-70
5	Added Note I	H.I.	11-9-79
		1	

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OVED Y	DATE	
Λ.	3/20/12	
1.	10/16/14	
-	9-16-75	
T.	9-14-760	
۲.	11-9-79	

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

STANDARD DETAILS WARNING SIGNS

NOT TO SCALE

SHEET No. 3 OF 9 SHEETS DT 102

SURVEY PLOTTE
DRAWN BY\_\_\_\_\_
TRACED BY\_\_\_\_
DESIGNED BY\_\_\_\_
QUANTITIES BY\_\_\_
CHECKED BY\_\_\_\_

HE IMPERIALIM LA 3207

DATE

FED. ROAD DIST. NO. FED. AID FISCAL SHEET PROJ. NO. YEAR NO. TOTAL SHEETS HAW. 185-0378(1) 1980 13 HAWAII





CW20-2d 48"x48"

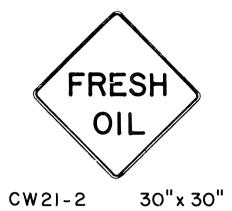




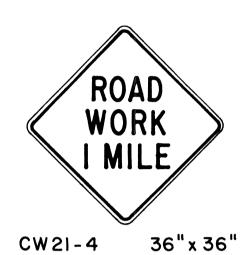




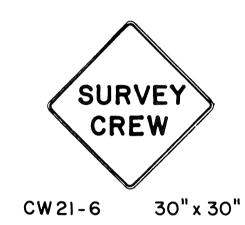




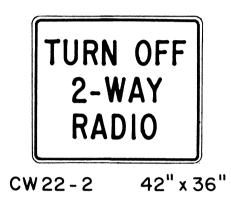


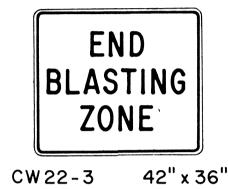






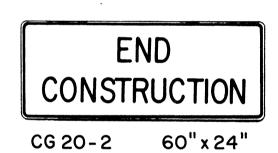




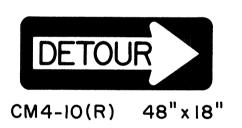


ROAD CONSTRUCTION NEXT 5 MILES

CG 20-I(5) 60" x 36"

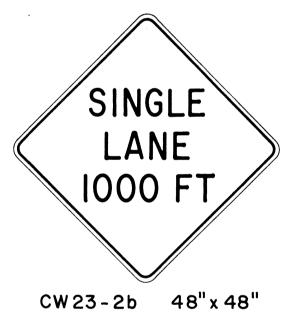














### GENERAL NOTES

- I. Sign details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, and "Standard Highway Signs,"1972, and as amended.
- 2. All construction signs shall be reflectorized.
- 3. All construction 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. For "CW" series signs, suffixes a,b,c and d are as follows: a-1500 FT, b-1000 FT, c-500 FT and d-AHEAD.

NO.	REVISION	APPROVED BY	DATE	
ı	Supersedes Sht. DT 104 Approved 12-30-69	H.T.	3/23/72	
2	Revised General Note 1	H.1.	10/16/14	
3 4	Revised General Note 2 Revised General Note 2 and sign CG20-1(5)	M+ H-P.	9-16-75 9-14-76	

APPROVAL BECOMMENDED: Euch makes
TRAFFIC ENGINEER

3/21/72 DATE

3/23/12

DATE

APPROVED

ASSISTANT CHIEF, ENGINEERING

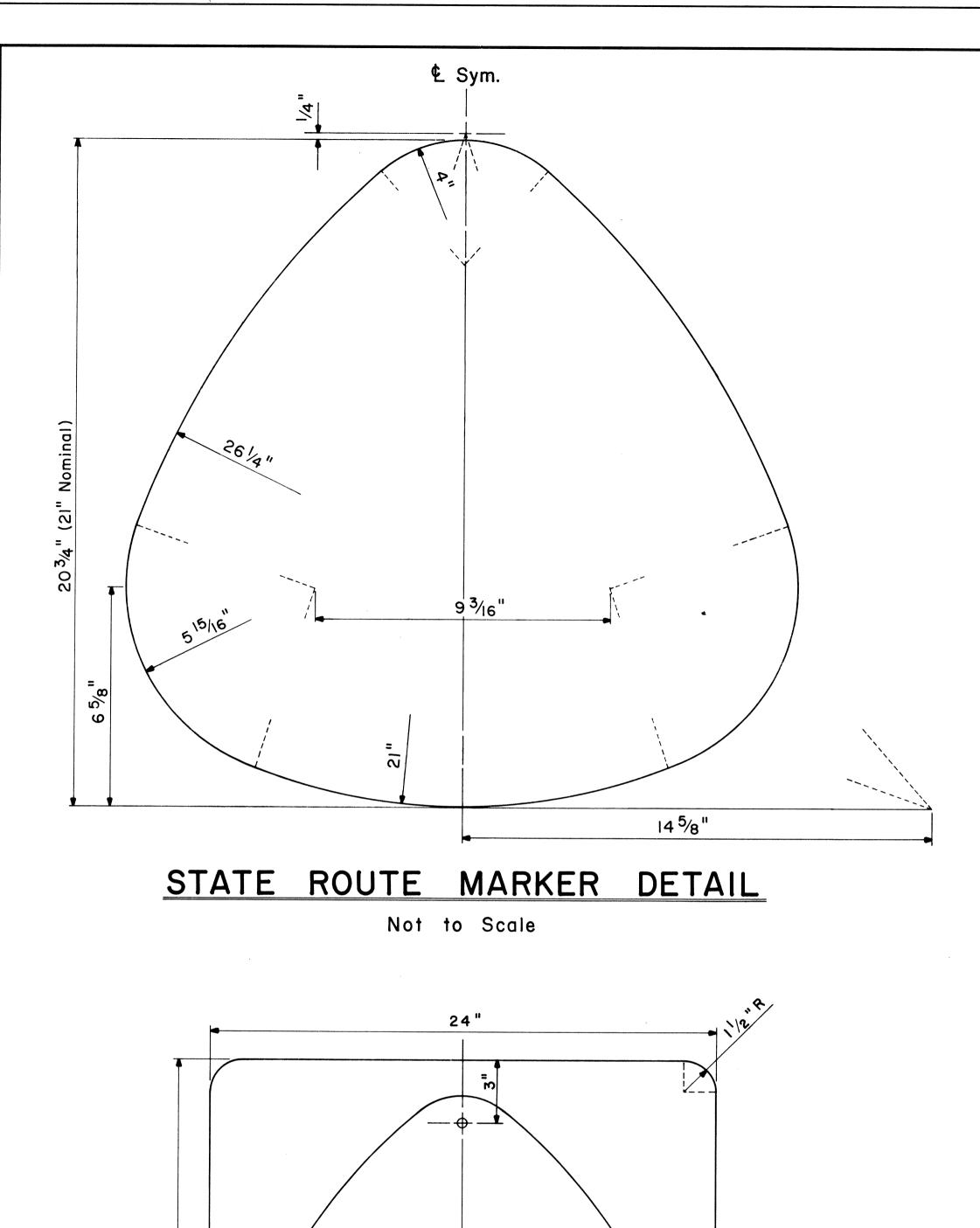
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION LAND TRANSPORTATION FACILITIES DIVISION

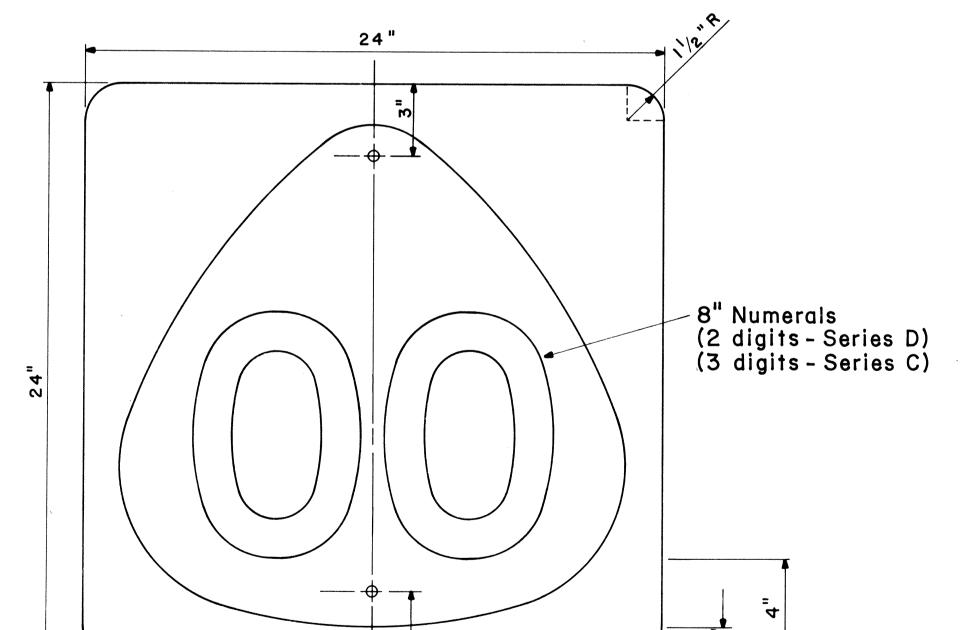
STANDARD DETAILS

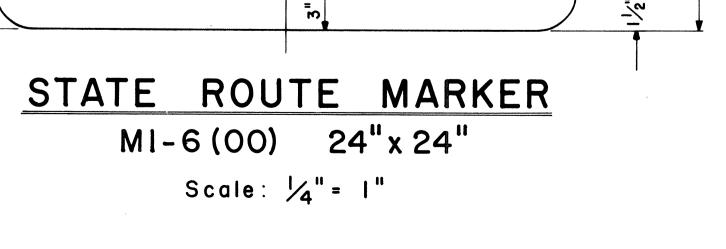
CONSTRUCTION SIGNS

NOT TO SCALE

SHEET No. 4 OF 9 SHEETS DT 104

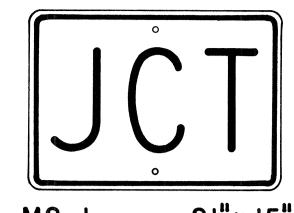






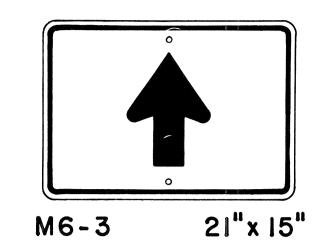
ORIGINAL BRAWN BY TRACED BY OUTE BOOK QUANTITIES BY CHECKED BY

LIETZ 1103 ARKWRIGHT TRACING CLOTH 10-60 200P



21"x 15" M2 - 1

M5-I(L)



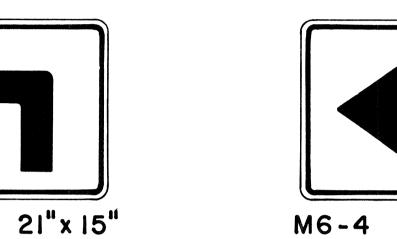
21"x 15"

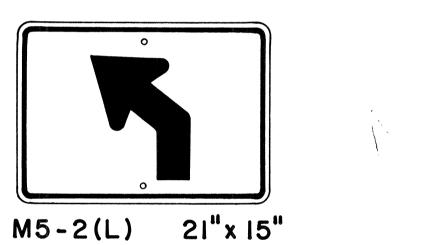
21"x 15"

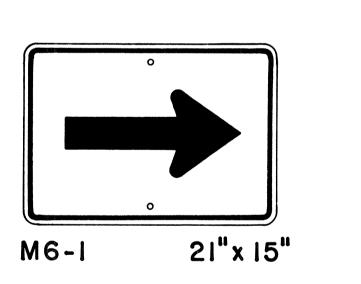
21"x 15"

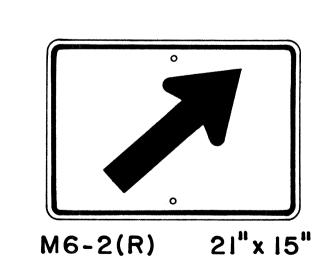
M6-5(R)

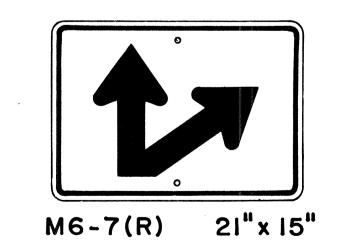
M6-6(R)











# AUXILIARY MARKERS

Not to Scale

24" x 12" 36" x 18"



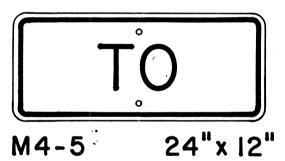
24"x 12" M4-1



24" x 12" M4-2



24" x 12" M4-3



END

24"x 12" M4 - 6

TEMPORARY

24"x 12"



24"x 12" M4-8

INATE	APPROVED BY	NO.
6/1/12		l
10/16/14	H.( .	2
•		

#### **NOTES** GENERAL

Marker details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, "Standard Alphabets for Highway Signs," 1966, and "Standard Highway Signs," 1972, and as amended.

FED. ROAD DIST. NO.

- 2. All markers shall be reflectorized unless otherwise specified.
- 3. All markers shall have  $\frac{3}{8}$ " bolt holes drilled at appropriate locations.
- 4. Numerals in ( ) indicates numerals to be inserted for marker message. (R) or (L) indicates right or left.
- 5. Sign message of Cardinal Direction Marker (M3 series) shall be denoted by the following:

M3-I: NORTH M3-2: EAST M3-3: SOUTH M3-4: WEST

FED. AID FISCAL PROJ. NO. YEAR

HAW. 185-0378(1) 1980

SHEET NO.

14

SHEETS

6. Markers prefixed with "IM" on the plans shall have a white legend on a blue background.

APPROVAL RECOMMENDED:

TRAFFIC ENGINEER

APPROVED:

6/6/72 DATE

ASSISTANT CHIEF, ENGINEERING

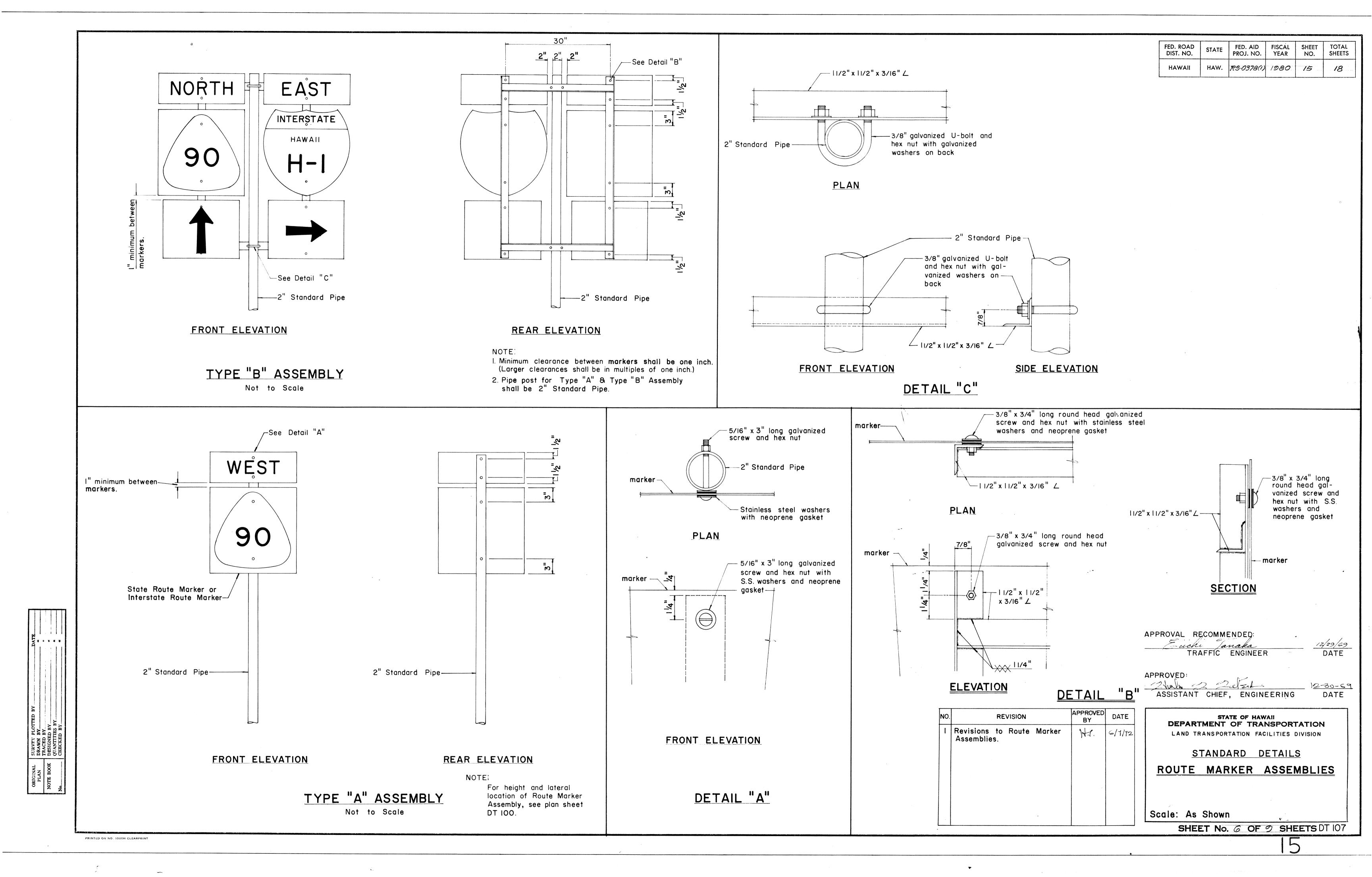
C-1-12 DATE STATE OF HAWAII DEPARTMENT OF TRANSPORTATION

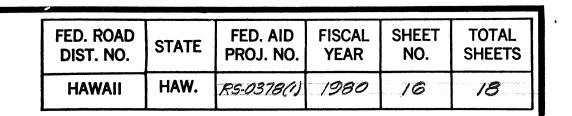
LAND TRANSPORTATION FACILITIES DIVISION

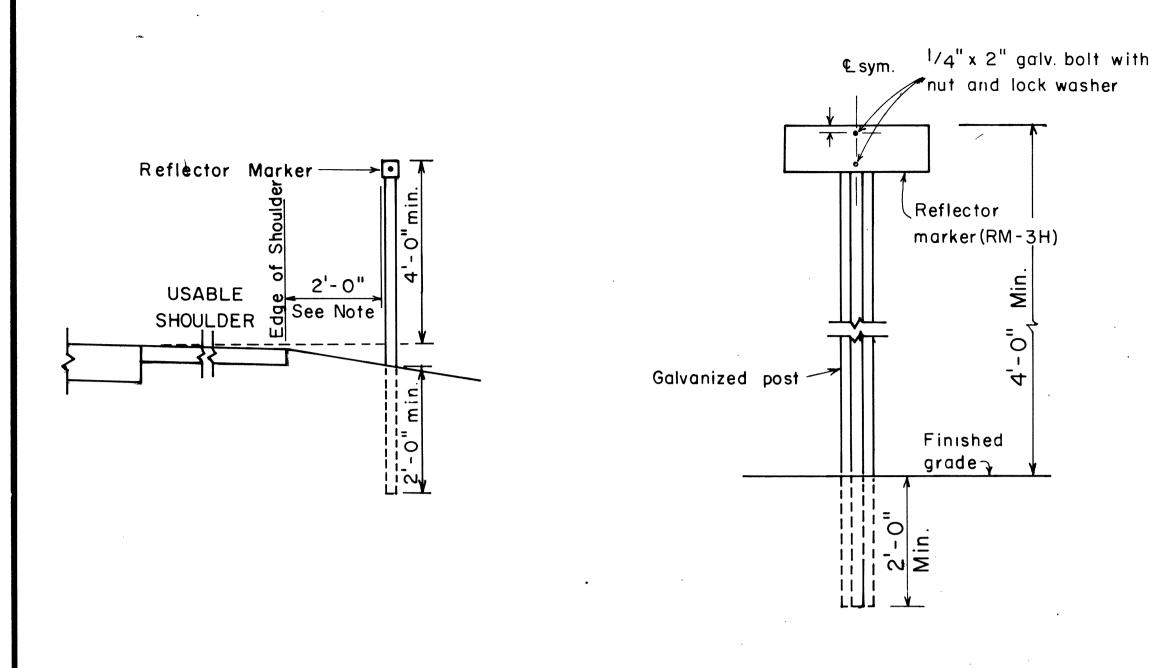
STANDARD DETAILS STATE ROUTE MARKER AND AUXILIARY MARKERS

| Scale: As Shown

SHEET Nº 5 OF 9 SHEETS DT 105







MARKER MOUNTING DETAIL

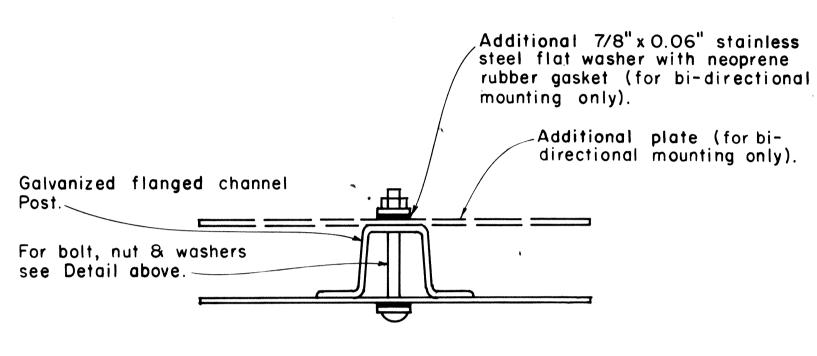
REFLECTOR

Galv. sq. tube post

1/4"  $\phi \times 2$  1/2" galv. bolt,
lock washer 8. 7/8" x 0.06"
stainless steel flat washer
with neoprene rubber gasket

Reflector marker (for bi-directional mounting see Detail below).

### GALVANIZED SQUARE TUBE POST

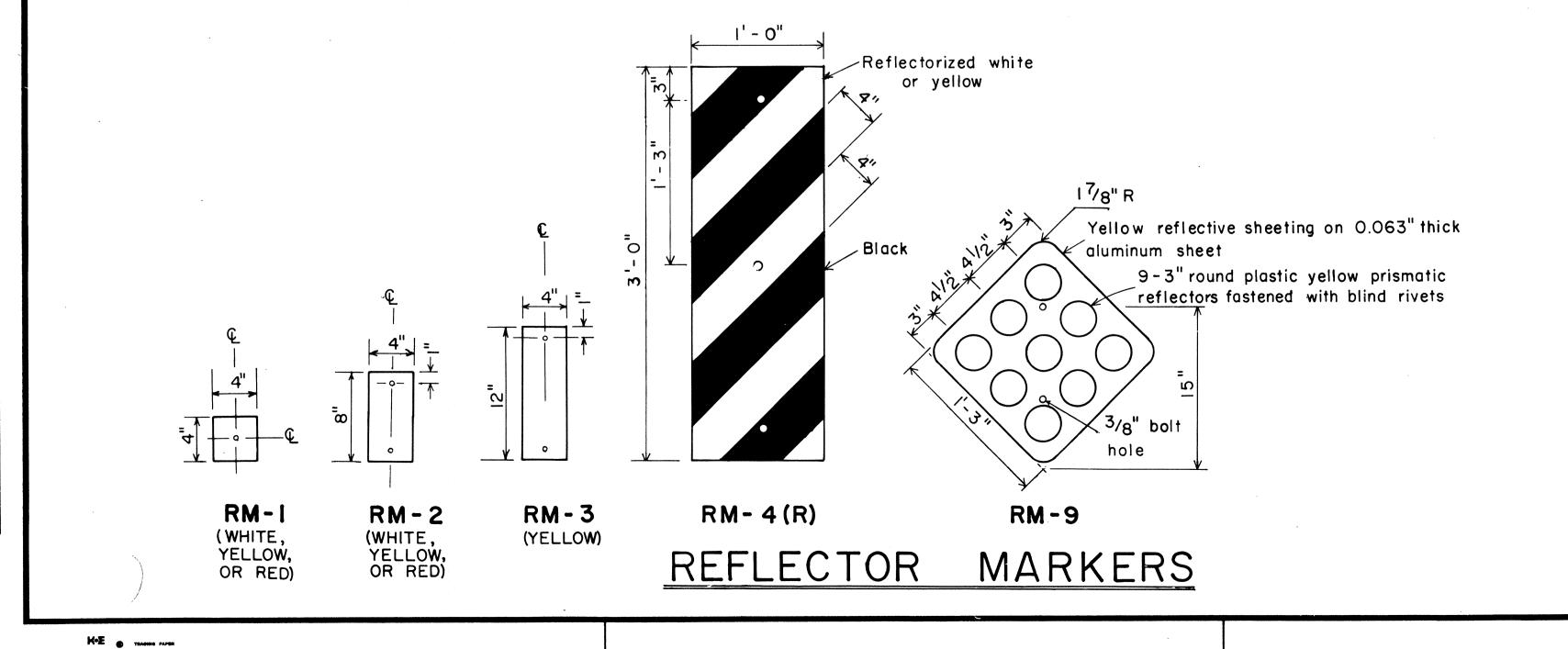


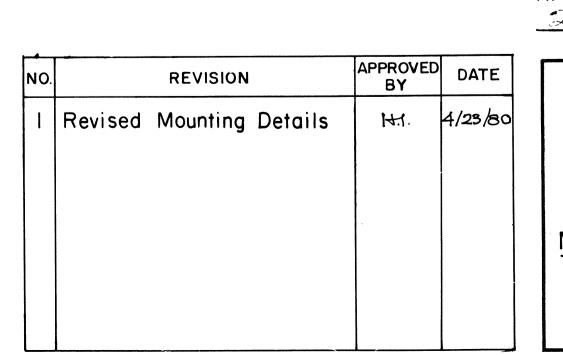
GALVANIZED FLANGED CHANNEL POST

TYPICAL MOUNTING DETAILS

### GENERAL NOTES:

- 1. Clearance markers (RM-3, RM-4) shall be installed with the edge of the marker in line with the inner edge of the obstruction.
- 2. (R) or (L) indicates right or left and shall be as shown on the plans.
- 3. Reflector markers RM-1 and RM-2 shall be:
- a) Yellow if placed along the left edge of divided roadways, one-way roadways, and ramps in the direction of travel.
- , b) White if placed along the right edge of divided roadways, one-way roadways, and ramps in the direction of travel.
- 4. For reflector marker RM-9, reflective sheeting material may be used as an alternate.
- 5. For RM-4, the stripes shall slope downward at an angle of 45° in the direction of traffic.





TRAFFIC ENGINEER

APPROVED:

ASSISTANT CHIEF, ENGINEERING

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

MISCELLANEOUS REFLECTOR MARKERS

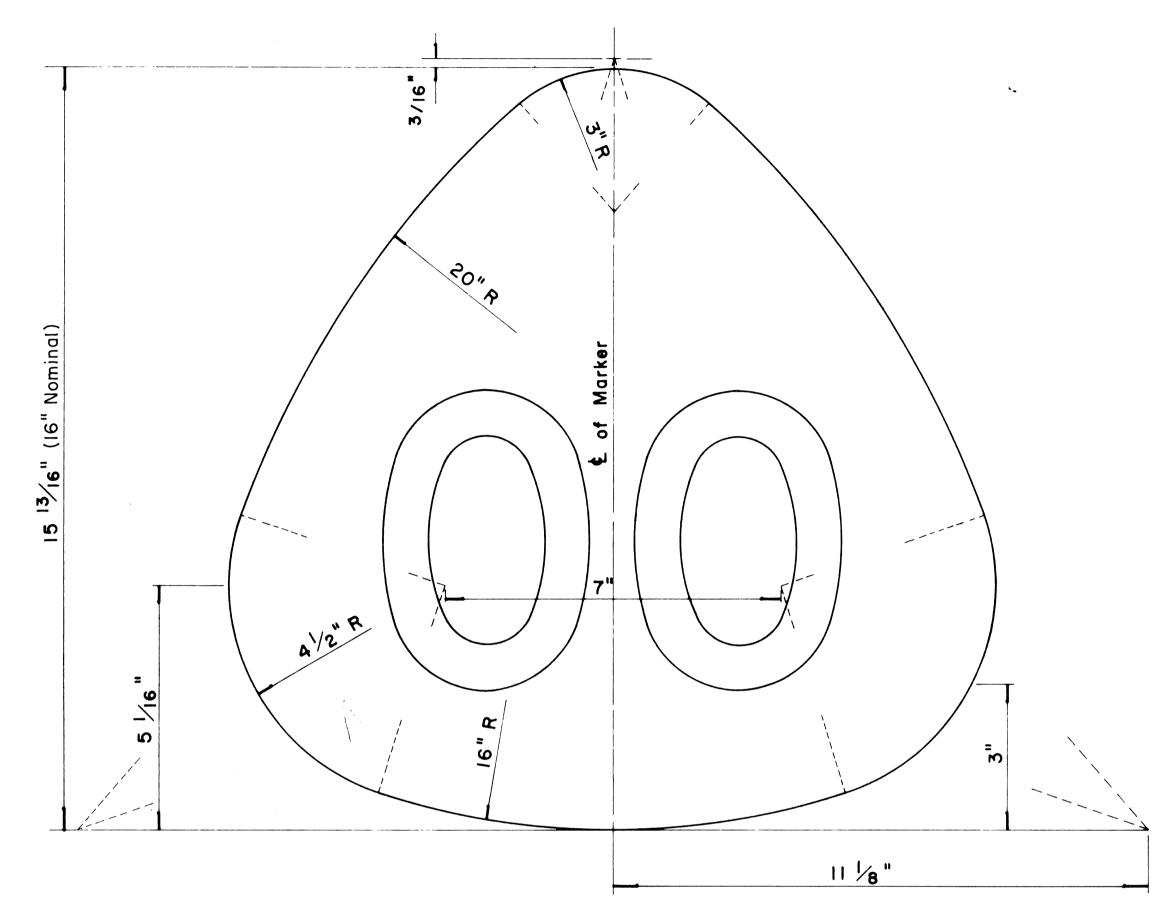
APPROVAL RECOMMENDED

Not to scale June, 1977

SHEET NO. 7 OF 9 SHEETS DT 110

16

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



# STATE ROUTE MARKER FOR GUIDE SIGNS

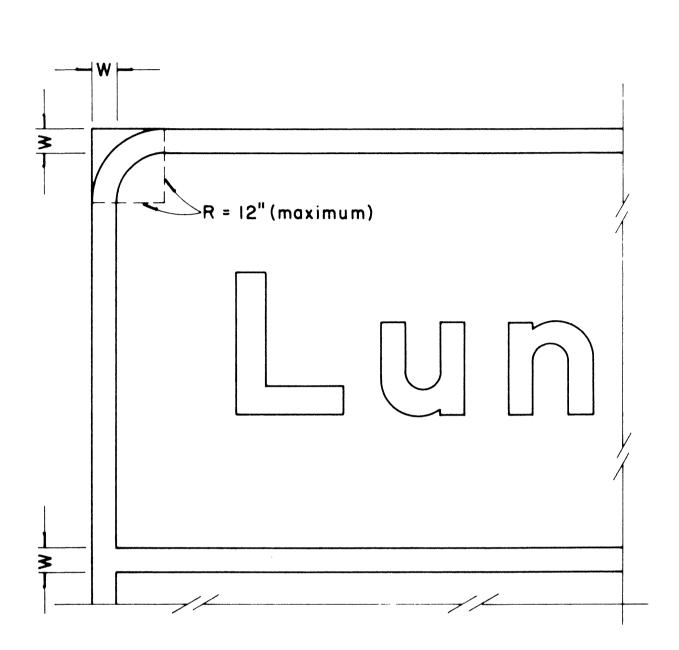
Scale: Half Size

### NOTE:

- I. 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.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	RS-0378(1)	1980	17	

RADII FOR SIGNS	6	
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:

I. Area outside corner radius need not be trimmed.

- 2. All borders shall be white reflectorized cut-outs.
- 3. All Guide signs shall have borders.

REVISION

Supersedes Sht. DT 209 Approved 12-30-69

2 Revised Notes and Schedules

APPROVAL RECOMMENDED:

4/11/12 DATE

4/12/72 DATE

APPROVED:

ASSISTANT CHIEF, ENGINEERING

 APPROVED BY	DATE	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION
H-C.	4/12/12	LAND TRANSPORTATION FACILITIES DIVISION
14.7.	9-14-76	STANDARD DETAILS

STATE ROUTE MARKER AND BORDER DETAIL FOR GUIDE SIGNS

Scale: As Shown

SHEET No. 8 OF 9 SHEETS DT 209

 OBLIGINAL
 SURVEY PLOTTED BY
 DATE

 PLAN
 TRACKD BY
 \*\*\*

 NOTE BOOK
 DESIGNED BY
 \*\*\*

 No.
 CHECKED BY
 \*\*\*

PRINTED ON NO. 1000H CLEARPRINT

