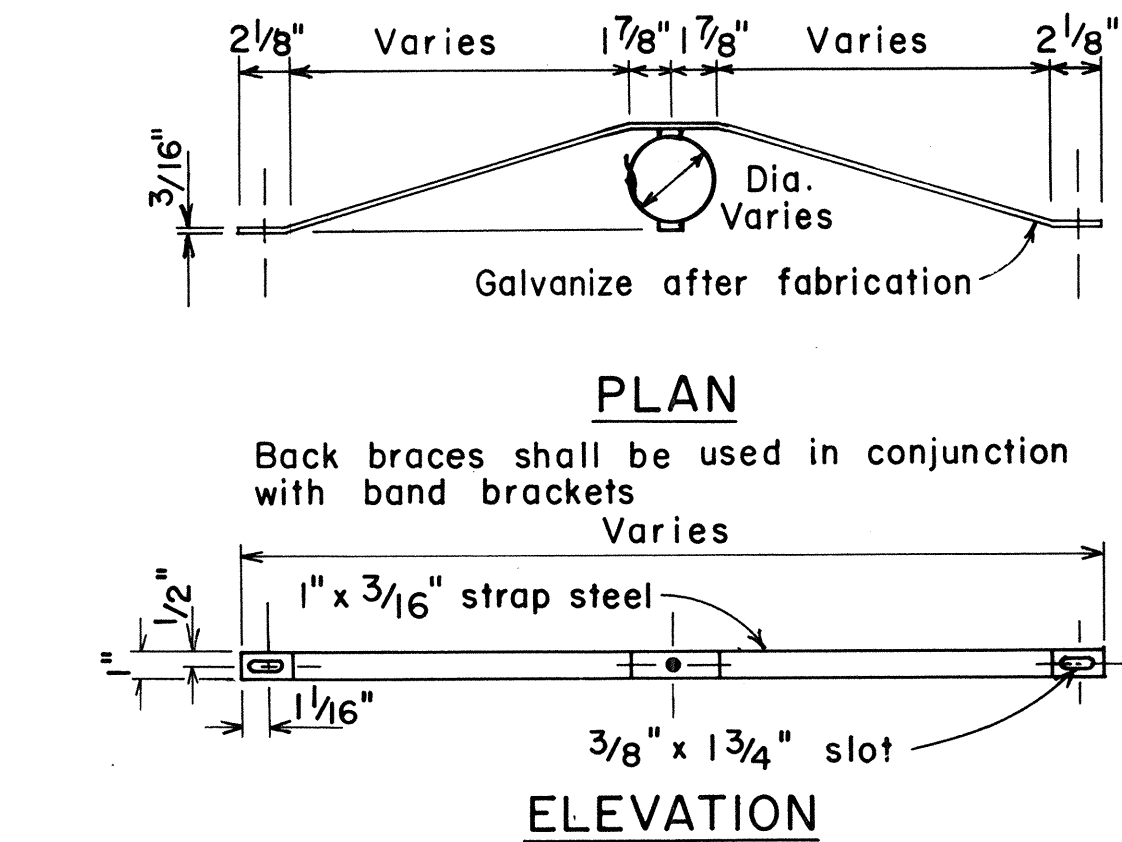


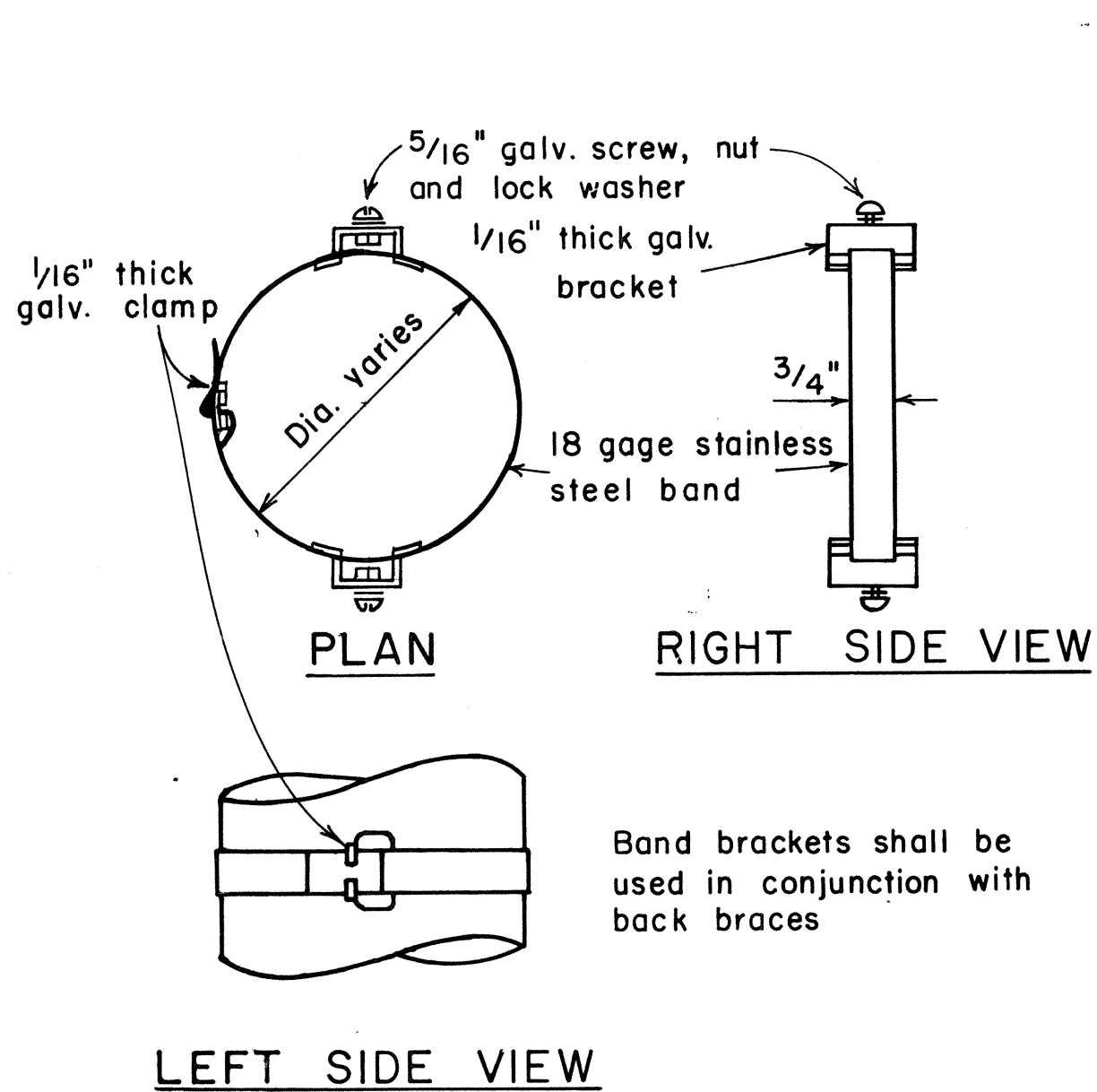
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	RS-0460(1)	1978	12	23

### GENERAL NOTES

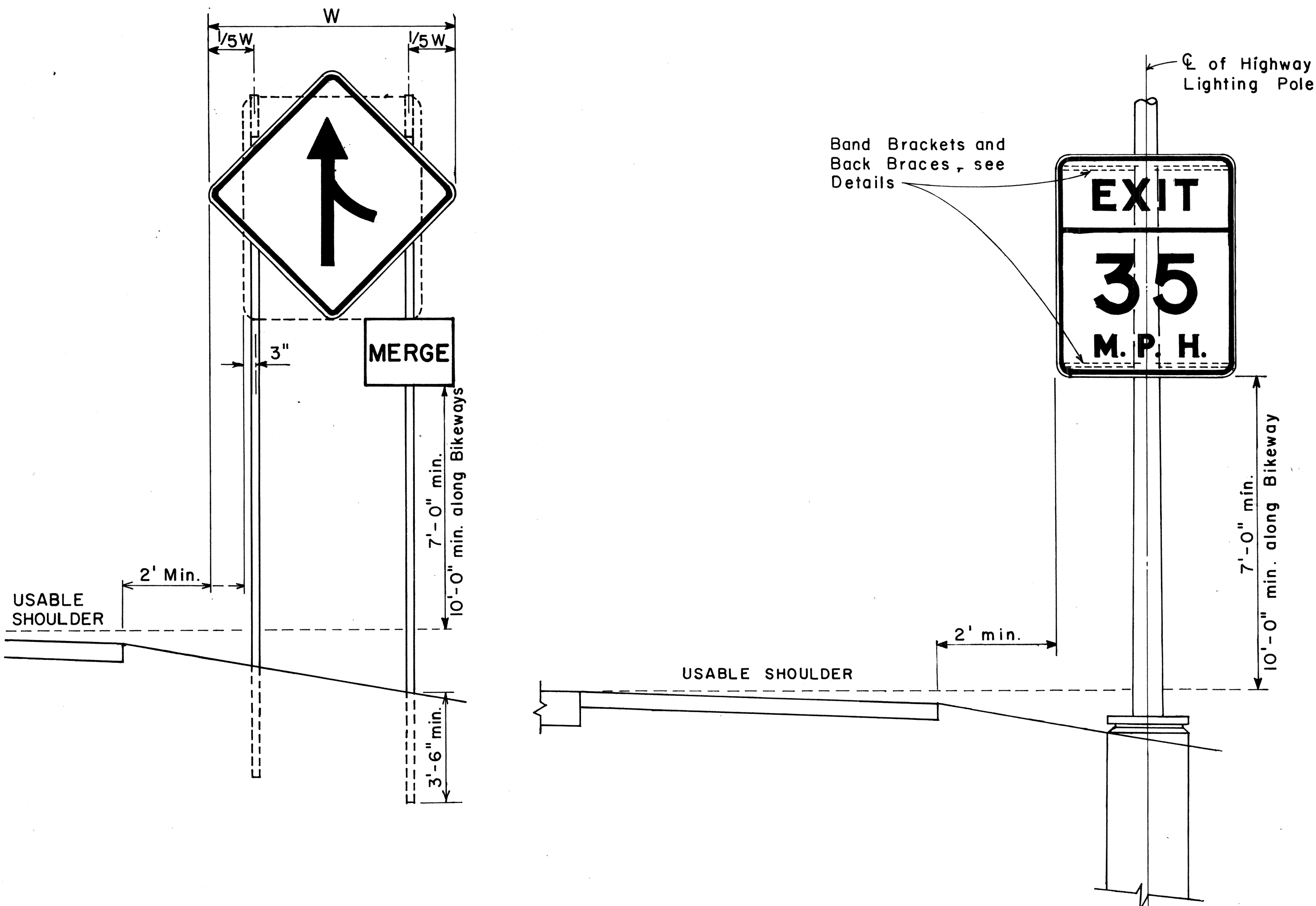
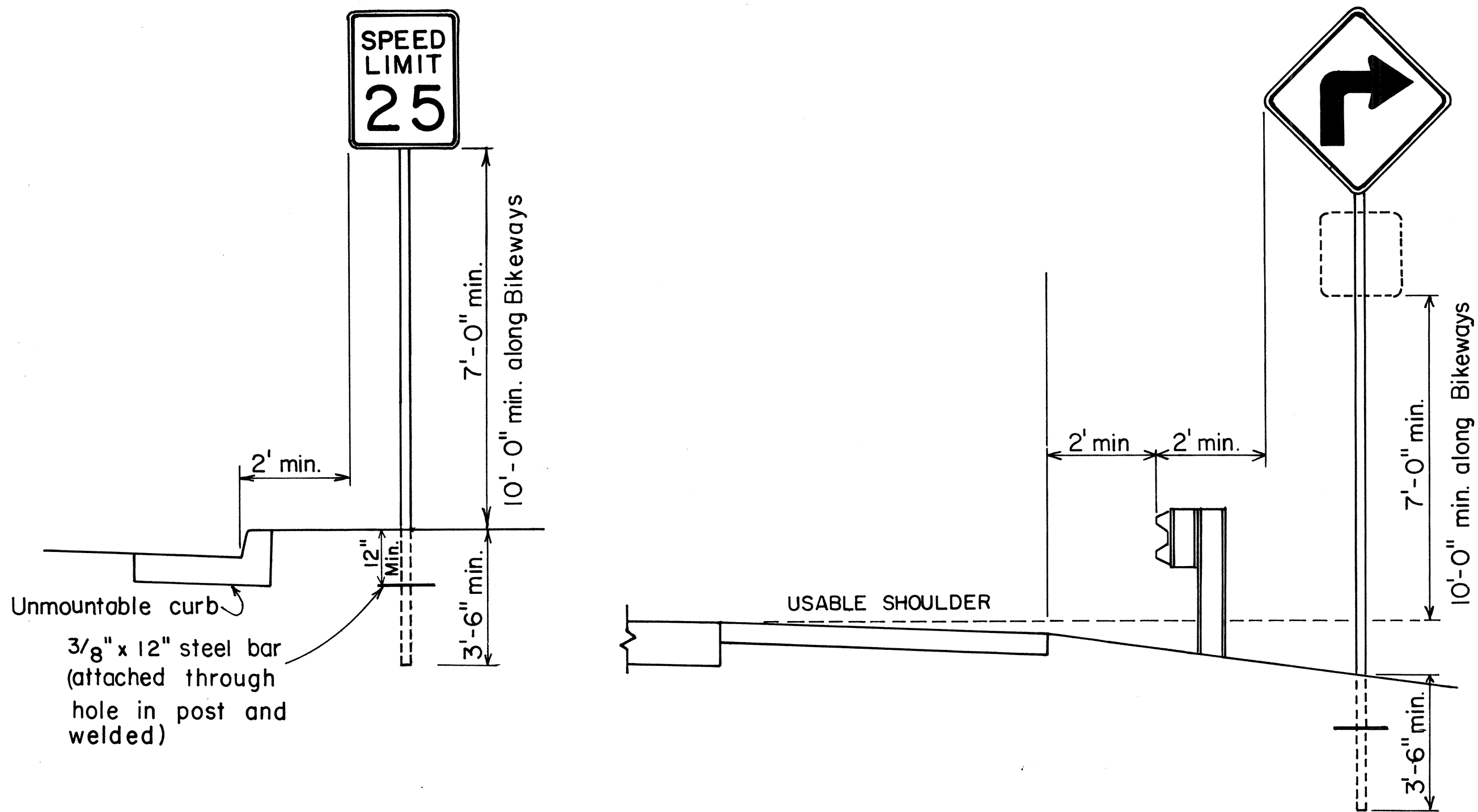
- Signs 48" and wider or larger than 10 sq. ft. in area shall be mounted on two sign posts.
- All signs larger than 10 sq. ft. in area or 48" inches and wider, and mounted on other than two posts supports (i.e., on highway lighting poles) shall have at least two sets of band brackets and back braces.
- All signs 28 sq. ft. in area or larger and mounted on other than two posts supports (i.e., on highway lighting poles) shall have at least three sets of band brackets and back braces.
- Signs shall be attached to post with  $\frac{5}{16}$ " galv. bolts with nuts and  $\frac{7}{8}$ " x 0.06" stainless steel washers with neoprene rubber gasket.
- Sign posts shall extend  $3\frac{1}{2}$ " above sign where required for City and County street name signs.
- (R) or (L) indicates right or left and shall be as shown on the plans.



### BACK BRACE DETAILS FOR BALANCED SIGN INSTALLATION



### TYPICAL BAND BRACKET FOR MOUNTING TRAFFIC SIGNS



### HEIGHT AND LATERAL LOCATION OF SIGNS TYPICAL INSTALLATION

APPROVAL RECOMMENDED:  
*Eishi Tanaka* 11/10/77  
TRAFFIC ENGINEER DATE

APPROVED:  
*Harvey S. Sakai* 11/15/77  
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT-100 approved 12/30/69	H.T.	11/15/77

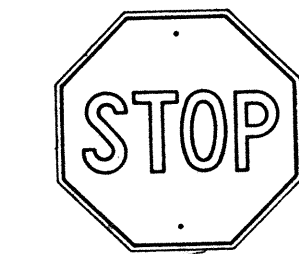
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS  
MISCELLANEOUS SIGN DETAILS

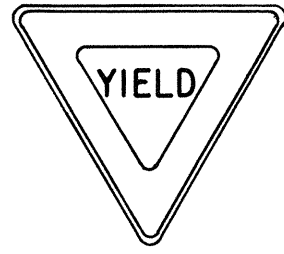
Not to scale  
June, 1977

SHEET NO. 1 OF 12 SHEETS DT 100

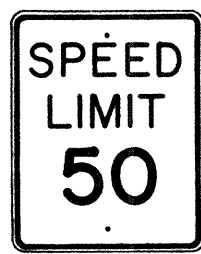
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	R8-0460(1)	1978	13	23



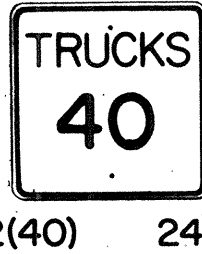
R1-1 30"x30"  
R1-1-A 36"x36"  
4-WAY  
R1-3 12"x6"  
R1-3-A 18"x9"



R1-2 36"x36"x36"  
R1-2-A 48"x48"x48"



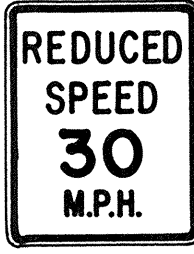
R2-1(50) 24"x30"  
R2-1(50)-A 48"x60"



R2-2(40) 24"x24"  
R2-2(40)-A 48"x48"



R2-4a(50/40) 24"x48"  
R2-4a(50/40)-A 48"x96"



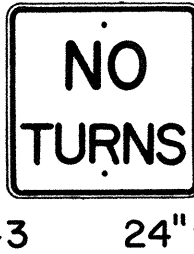
R2-5b(30) 24"x30"  
R2-5b(30)-A 48"x60"



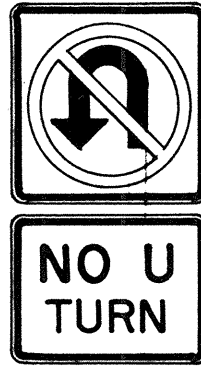
R3-1 24"x24"  
24"x18"  
R3-1-A 48"x48"  
48"x36"



R3-2 24"x24"  
24"x18"  
R3-2-A 48"x48"  
48"x36"



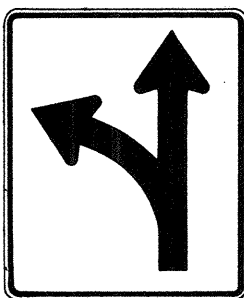
R3-3 24"x24"  
R3-3-A 48"x48"



R3-4 24"x24"  
24"x18"  
R3-4-A 48"x46"  
48"x36"



R3-5(L) 30"x36"  
R3-5(L)-A 48"x60"



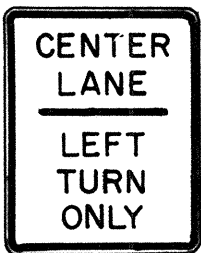
R3-6(L) 30"x36"  
R3-6(L)-A 48"x60"



R3-7(R) 30"x30"  
R3-7(R)-A 48"x48"



R3-8(L) 30"x30"  
R3-8(L)-A 36"x36"  
R3-8(L)-B 48"x48"



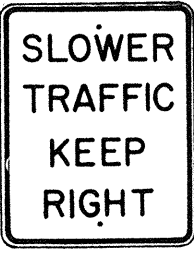
R3-9 24"x30"



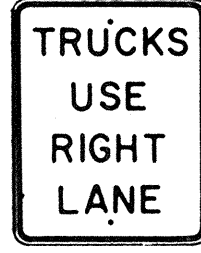
R4-1 24"x30"



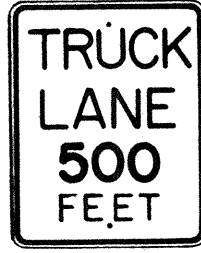
R4-2 24"x30"



R4-3 24"x30"  
R4-3-A 48"x60"



R4-5 24"x30"



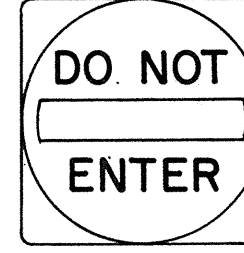
R4-6(500) 24"x30"



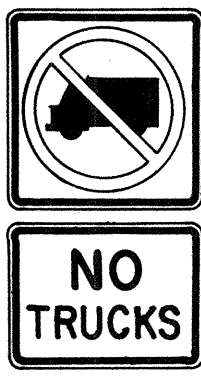
R4-7 24"x30"  
24"x18"



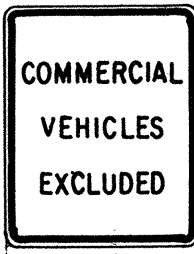
R4-8 24"x30"  
24"x18"



R5-1 30"x30"  
R5-1-A 48"x48"



R5-2 24"x24"  
24"x18"



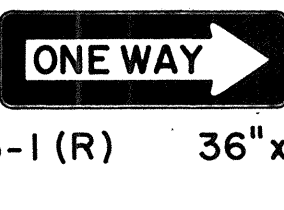
R5-4 24"x30"



R5-6 24"x24"  
24"x18"



R5-9 36"x24"



R6-1(R) 36"x12"



R6-2(R) 18"x24"



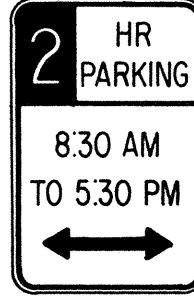
R7-1 12"x18"  
R7-1-A 24"x30"



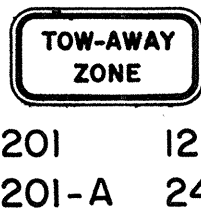
R7-4 12"x18"  
R7-4-A 24"x30"



R7-107(R) 12"x18"



R7-108 12"x18"



R7-201 12"x6"  
R7-201-A 24"x12"



R8-1 24"x30"



R8-2 24"x30"



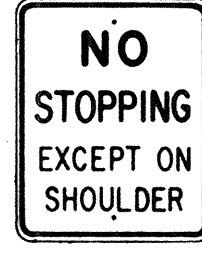
R8-3 24"x30"



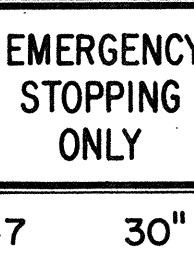
R8-4 30"x24"  
R8-4-A 48"x36"



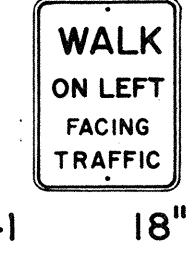
R8-5 24"x30"



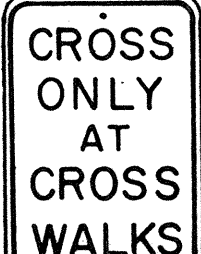
R8-6 24"x30"



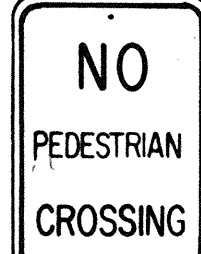
R8-7 30"x24"  
R8 7-A 48"x36"



R9-1 18"x24"



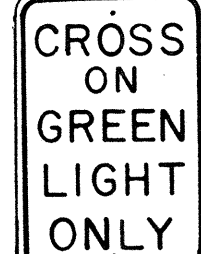
R9-2 12"x18"



R9-3 12"x18"



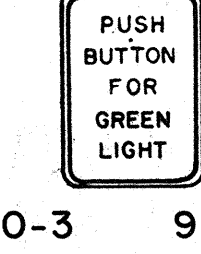
R9-4 18"x24"



R10-1 12"x18"



R10-2 12"x18"



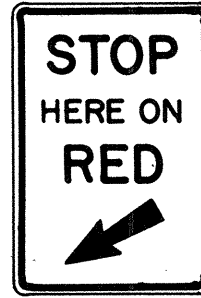
R10-3 9"x12"



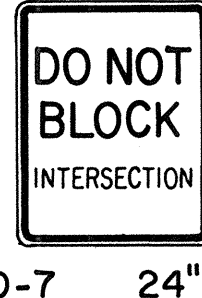
R10-4 9"x12"



R10-5 24"x30"



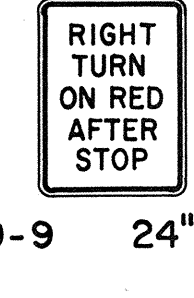
R10-6 24"x36"



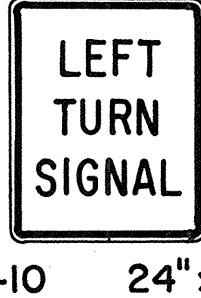
R10-7 24"x30"



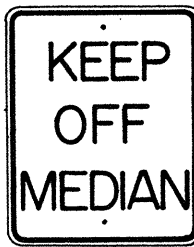
R10-8 24"x30"



R10-9 24"x30"



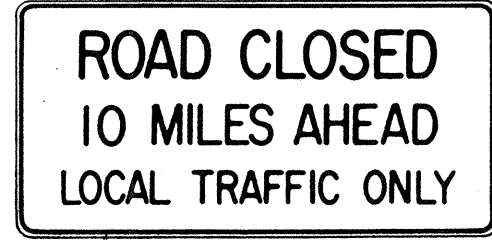
R10-10 24"x30"



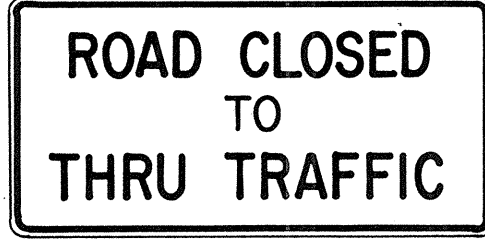
R11-1 24"x30"



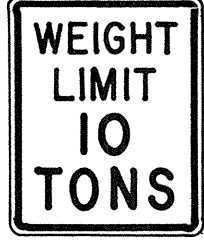
R11-2 48"x30"



R11-3(10) 60"x30"



R11-4 60"x30"



R12-1(10) 24"x30"

### GENERAL NOTES

- 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.
- All regulatory signs shall be reflectorized unless otherwise specified.
- All regulatory signs shall have 3/8" bolt holes drilled at appropriate locations.
- Numerals in ( ) indicates numerals to be inserted for sign message. (R) or (L) indicates right or left.

APPROVAL RECOMMENDED:  
TRAFFIC ENGINEER Euske Tanaka 3/17/72  
DATE

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

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 101 Approved 12-30-69	H.T.	3/20/72
2	Revised General Note 1.	H.T.	10/10/74

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION

### STANDARD DETAILS REGULATORY SIGNS

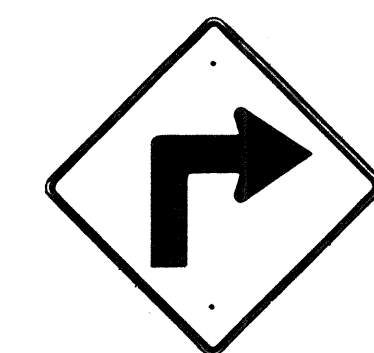
NOT TO SCALE

SHEET No. 2 OF 12 SHEETS DT 101

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



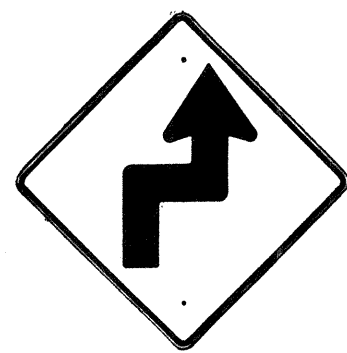
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII *	HAW.	PS-0460(1)	1978	14	23



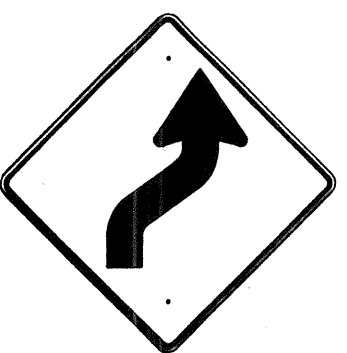
W1-1(R) 30"x30"  
W1-1(R)-A 48"x48"



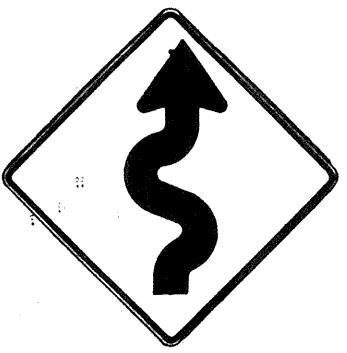
W1-2(R) 30"x30"  
W1-2(R)-A 48"x48"



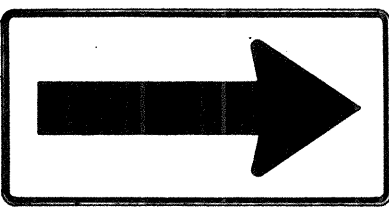
W1-3(R) 30"x30"  
W1-3(R)-A 48"x48"



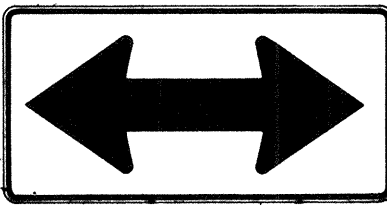
W1-4(R) 30"x30"  
W1-4(R)-A 48"x48"



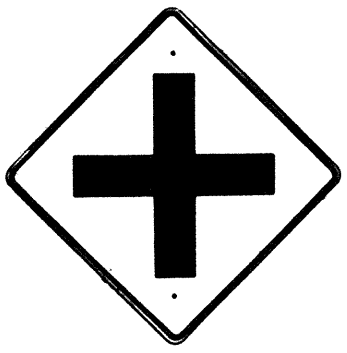
W1-5(R) 30"x30"  
W1-5(R)-A 48"x48"



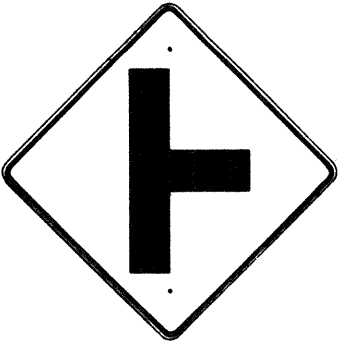
W1-6 48"x24"



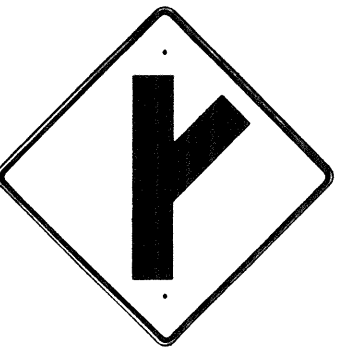
W1-7 48"x24"



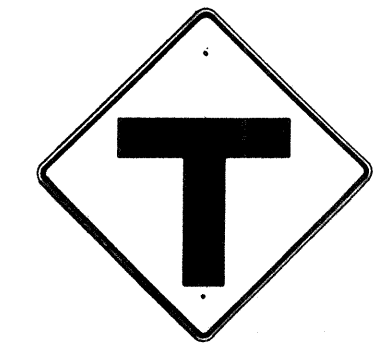
W2-1 30"x30"  
W2-1-A 48"x48"



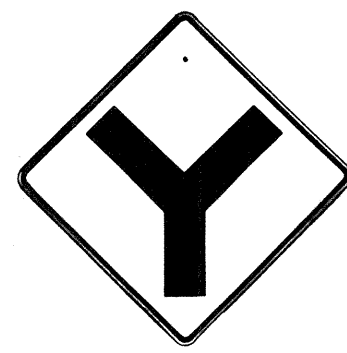
W2-2 30"x30"  
W2-2-A 48"x48"



W2-3(R) 30"x30"  
W2-3(R)-A 48"x48"



W2-4 30"x30"  
W2-4-A 48"x48"



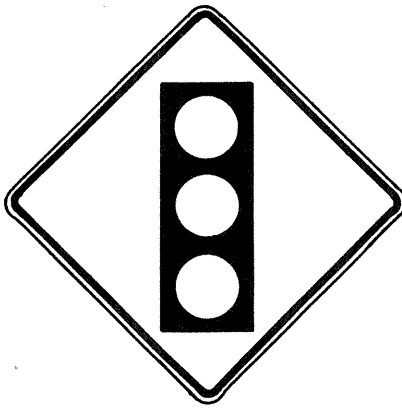
W2-5 30"x30"  
W2-5-A 48"x48"



W3-1 30"x30"  
W3-1-A 36"x36"



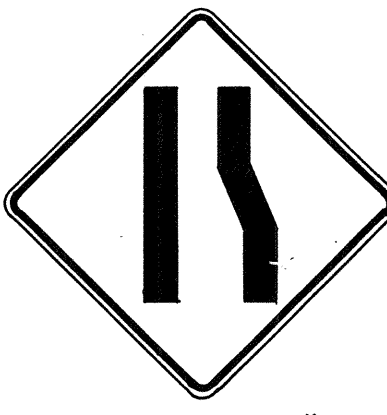
W3-2 30"x30"  
W3-2-A 36"x36"



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"



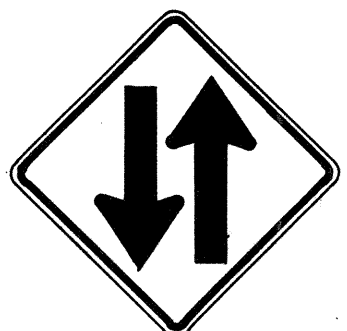
W5-3 36"x36"



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"



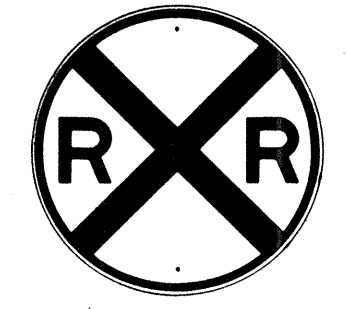
W8-5 30"x30"  
24"x18"  
W8-5-A 36"x36"  
24"x18"



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"



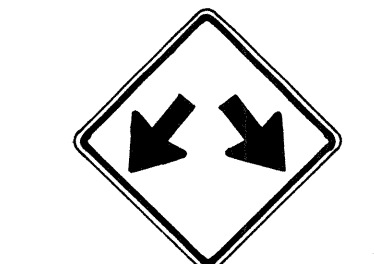
W11-2 30"x30"  
24"x18"  
W11-2-A 36"x36"  
24"x18"



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"



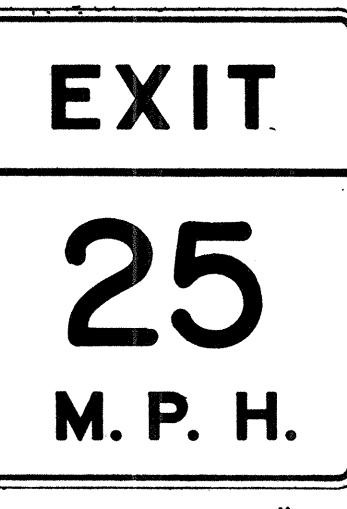
W12-1 24"x24"  
W12-1-A 36"x36"  
W12-1-B 48"x48"



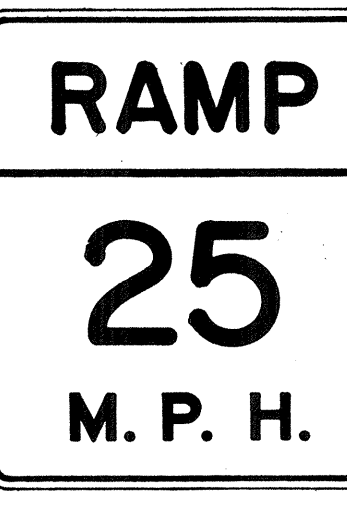
W12-2(12'-6") 36"x36"  
24"x18"



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," 1972, and as amended.
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, and shall be reflectorized.

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

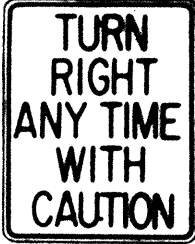
APPROVED:  
ASSISTANT CHIEF, ENGINEERING *Walter Dalsin* 3-20-72  
DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 102 Approved 12-30-69	H.T.	3/20/72
2	Revised General Note 1	H.T.	10/16/74
3	Revised General Note 5	M.T.	9-16-75
4	Revised General Note 5	H.T.	9-14-76

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION  
**STANDARD DETAILS**  
**WARNING SIGNS**

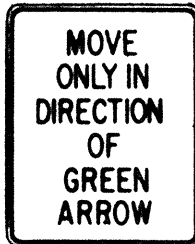
NOT TO SCALE  
SHEET No. 3 OF 12 SHEETS DT 102

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	RS-0460(1)	1978	15	23



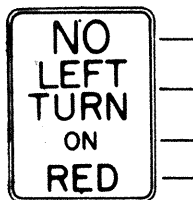
4" Series C

R16-1 24" x 30"

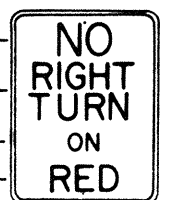


3" Series C

R16-2 24" x 30"



4" Series D



3" Series D


3" Series D

2" Series D

3" Series D

R16-3 18" x 24"

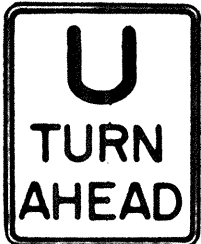
R16-4 18" x 24"



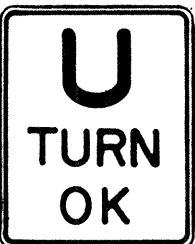
3" Series C

4" Series E

R16-5 36" x 42"



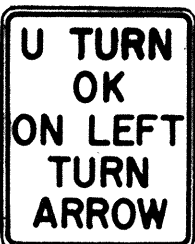
8" Series F



5" Series D


R16-6 24" x 30"

R16-7 24" x 30"




3" Series D

R16-8 24" x 30"




4" Series C




W15-1 24" x 24"


W15-2 24" x 24"



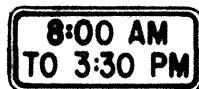
S1-1 36" x 36"




S2-1 36" x 36"




S3-1 30" x 30"




S4-1 24" x 10"



S4-2 24" x 10"




S4-3 24" x 8"

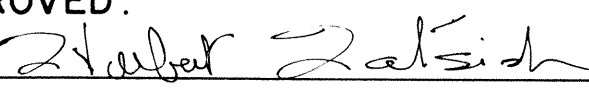


S4-4 24" x 10"

GENERAL NOTES

- 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.
- All regulatory and warning signs shall be reflectorized unless otherwise specified.
- All regulatory and warning signs shall have 3/8" bolt holes drilled at appropriate locations.
- Numerals in ( ) indicates numerals to be inserted for sign message. (R) or (L) indicates right or left.

APPROVAL RECOMMENDED:  
  
TRAFFIC ENGINEER  
3/17/72  
DATE

APPROVED:  
  
ASSISTANT CHIEF, ENGINEERING  
3-20-72  
DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 103 Approved 12-30-69	H.T.	3/20/72
2	Revised General Note 1	H.T.	10/16/74

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS  
MISCELLANEOUS  
REGULATORY & WARNING SIGNS

NOT TO SCALE

SHEET No. 4 OF 12 SHEETS DT 103


ORIGINAL PLAN	DATE
DESIGNED BY	
NOTED BY	
CHECKED BY	
NO.	



FLAGMAN  
500FT

A diamond-shaped sign with a black border and the text "SHOULDER WORK" in black capital letters.

TURN OFF  
2-WAY  
RADIO




END  
BLASTING  
ZONE


ROAD  
CONSTRUCTION  
NEXT 5 MILE

END  
CONSTRUCTION

DETOUR



PILOT CAR  
FOLLOW ME



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

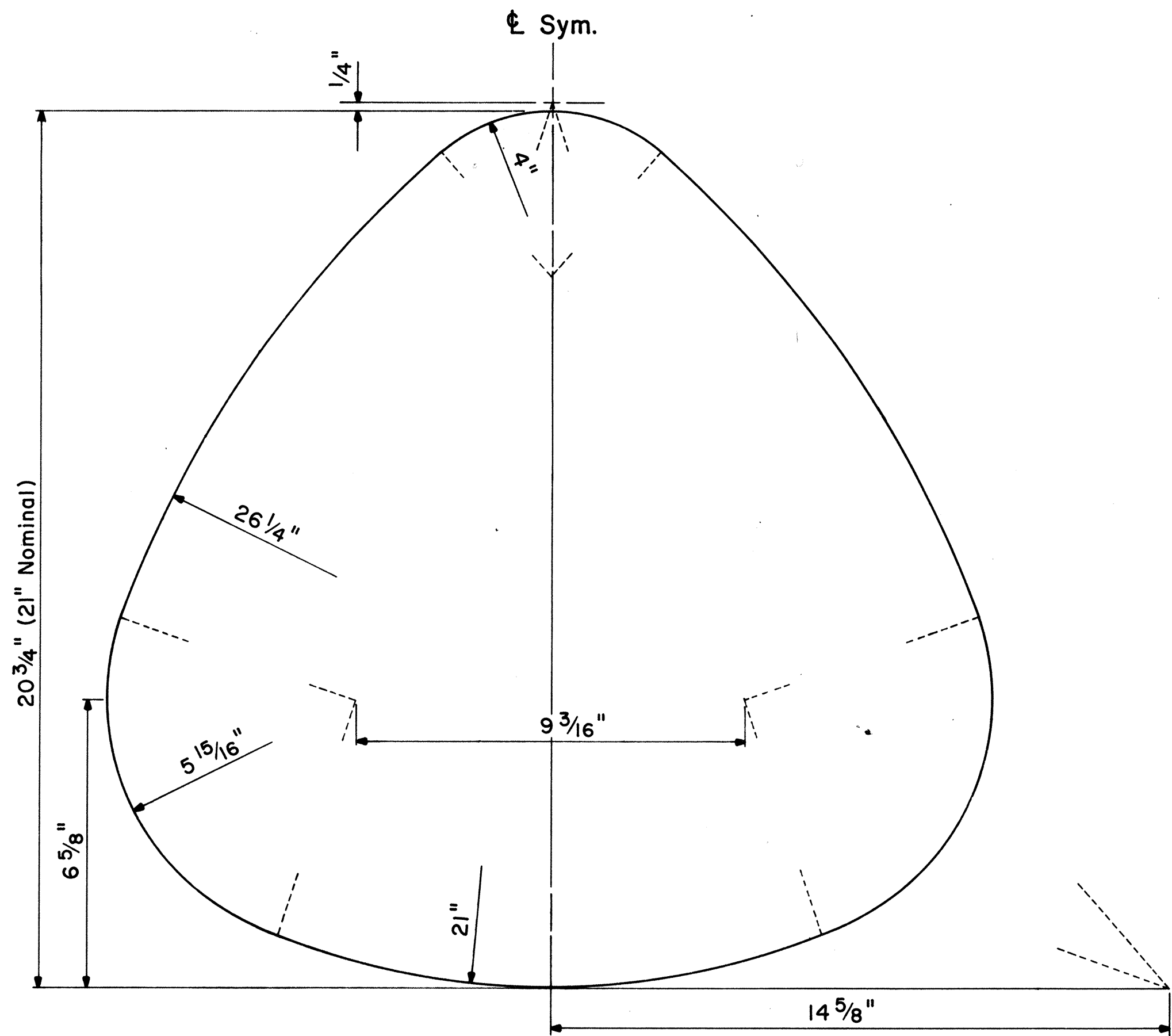


FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	RS-0460(1)	1978	17	23

GENERAL NOTES

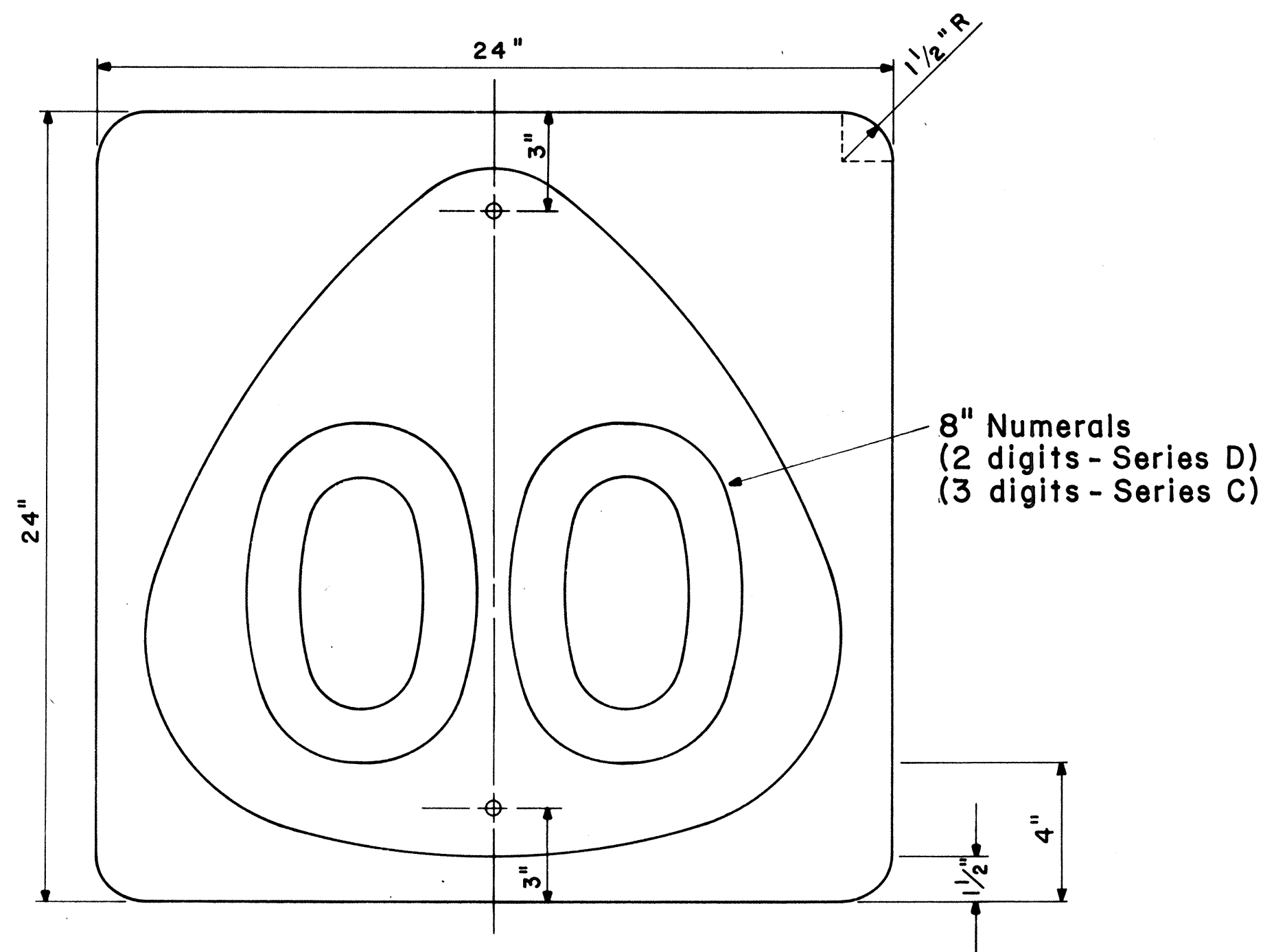
- Marker details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, "Standard Alphabets for Highway Signs," 1966, and "Standard Highway Signs," 1972, and as amended.
- All markers shall be reflectorized unless otherwise specified.
- All markers shall have  $\frac{3}{8}$ " bolt holes drilled at appropriate locations.
- Numerals in ( ) indicates numerals to be inserted for marker message. (R) or (L) indicates right or left.
- Sign message of Cardinal Direction Marker (M3 series) shall be denoted by the following:

M3-1 : NORTH  
M3-2 : EAST  
M3-3 : SOUTH  
M3-4 : WEST
- Markers prefixed with "IM" on the plans shall have a white legend on a blue background.



STATE ROUTE MARKER DETAIL

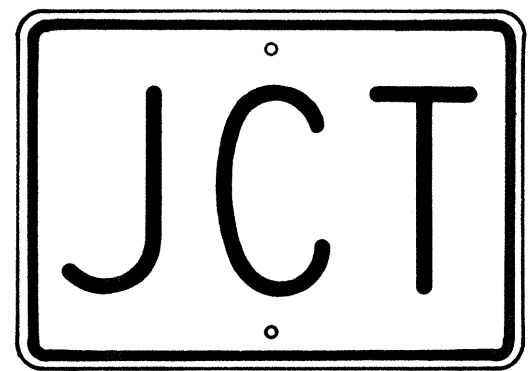
Not to Scale



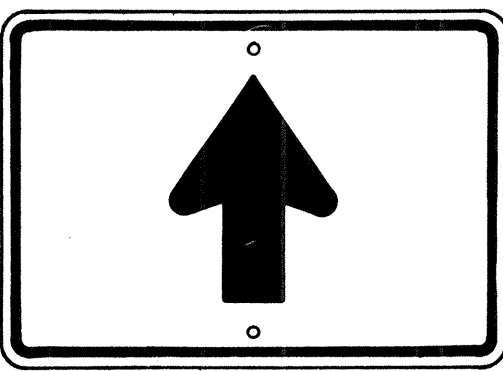
STATE ROUTE MARKER

MI-6 (00) 24"x 24"

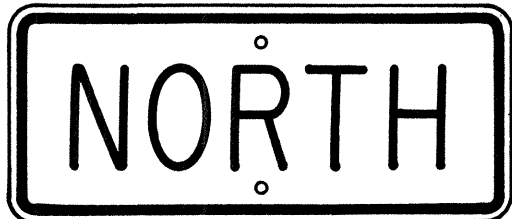
Scale:  $\frac{1}{4}$ " = 1"



M2-1 21"x 15"



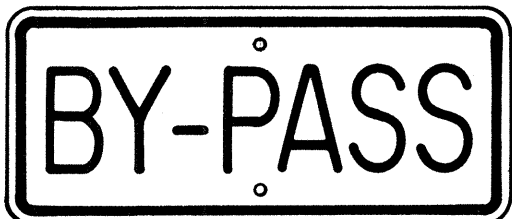
M6-3 21"x 15"



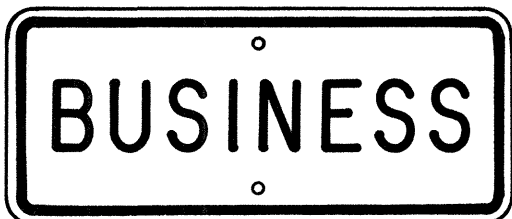
M3-1 24"x 12"  
M3-1-A 36"x 18"



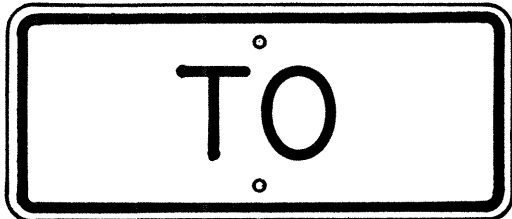
M4-1 24"x 12"



M4-2 24"x 12"



M4-3 24"x 12"



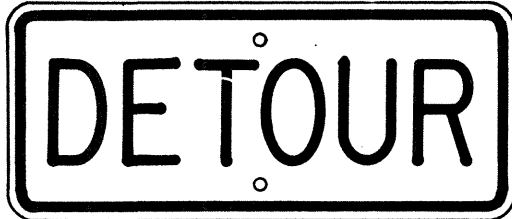
M4-5 24"x 12"



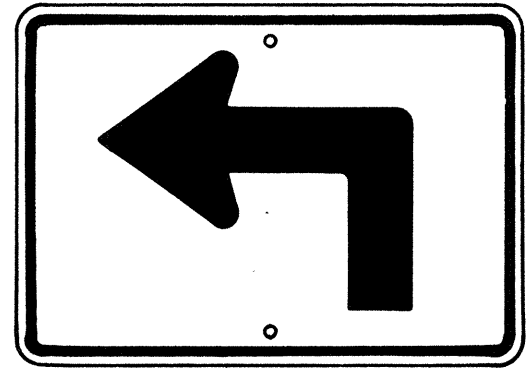
M4-6 24"x 12"



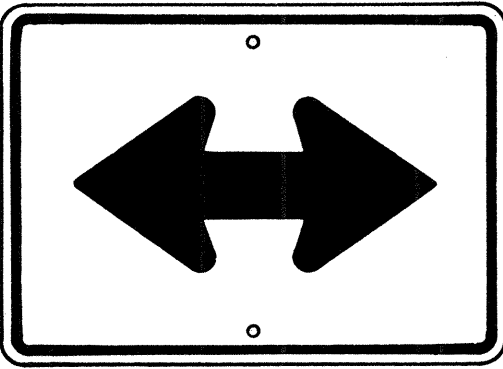
M4-7 24"x 12"



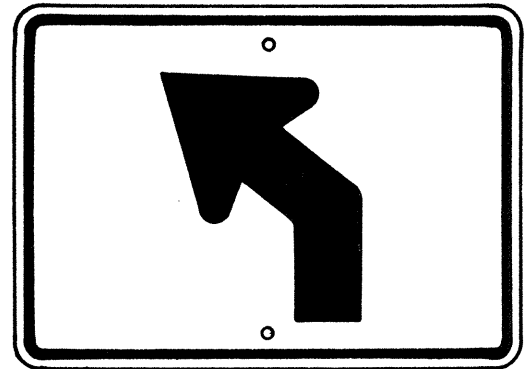
M4-8 24"x 12"



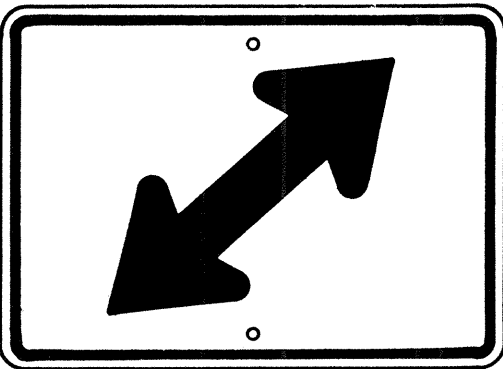
M5-1(L) 21"x 15"



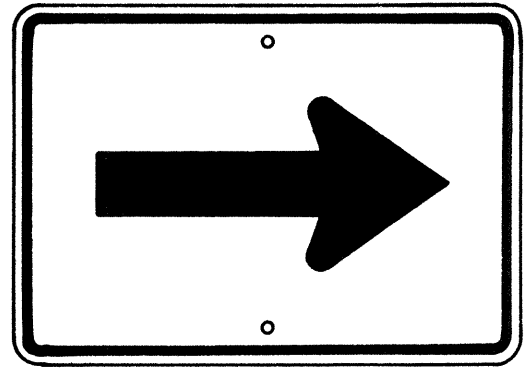
M6-4 21"x 15"



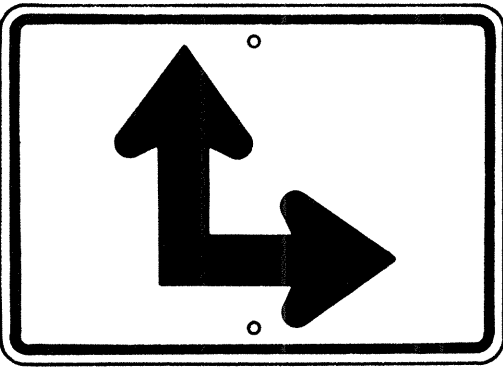
M5-2(L) 21"x 15"



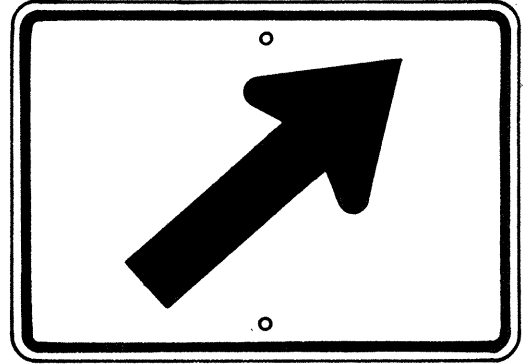
M6-5(R) 21"x 15"



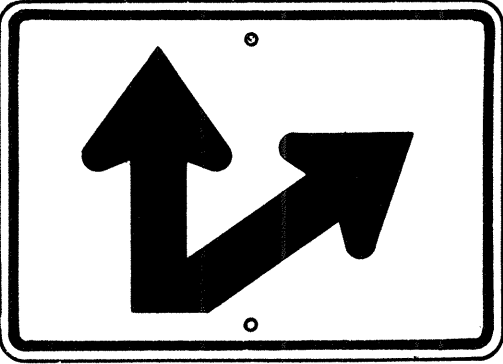
M6-1 21"x 15"



M6-6(R) 21"x 15"



M6-2(R) 21"x 15"



M6-7(R) 21"x 15"

AUXILIARY MARKERS

Not to Scale

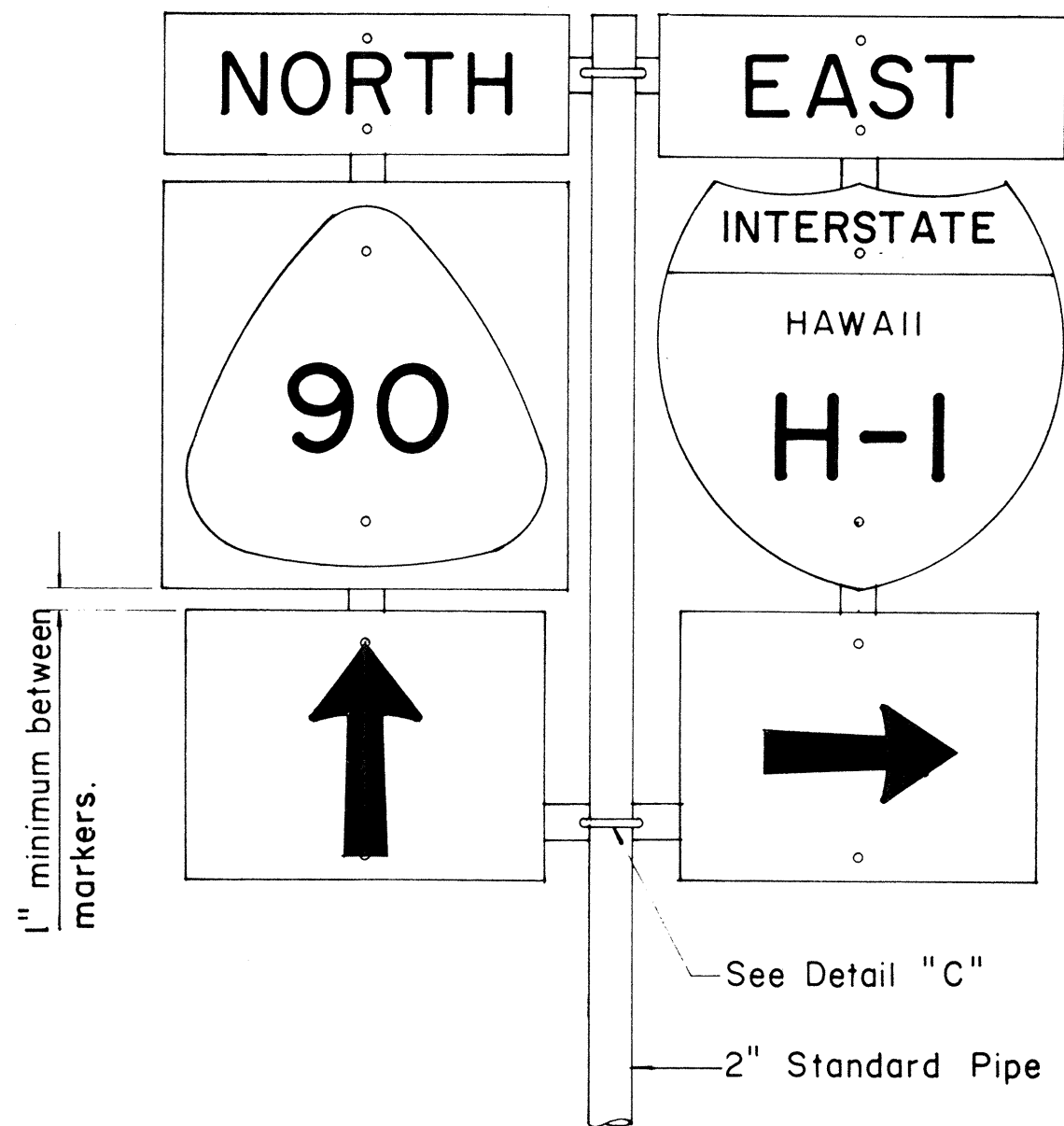
NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 105 Approved 12-30-69	H.T.	6/1/72
2	Revised General Note 1	H.T.	10/16/74

APPROVAL RECOMMENDED:  
*Erich Tanaka* 6/6/72  
TRAFFIC ENGINEER DATE  
APPROVED:  
*Arthur S. Sakuma* 6-7-72  
ASSISTANT CHIEF, ENGINEERING DATE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION  
STANDARD DETAILS  
STATE ROUTE MARKER  
AND AUXILIARY MARKERS  
Scale: As Shown  
SHEET NO 6 OF 12 SHEETS DT 105

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

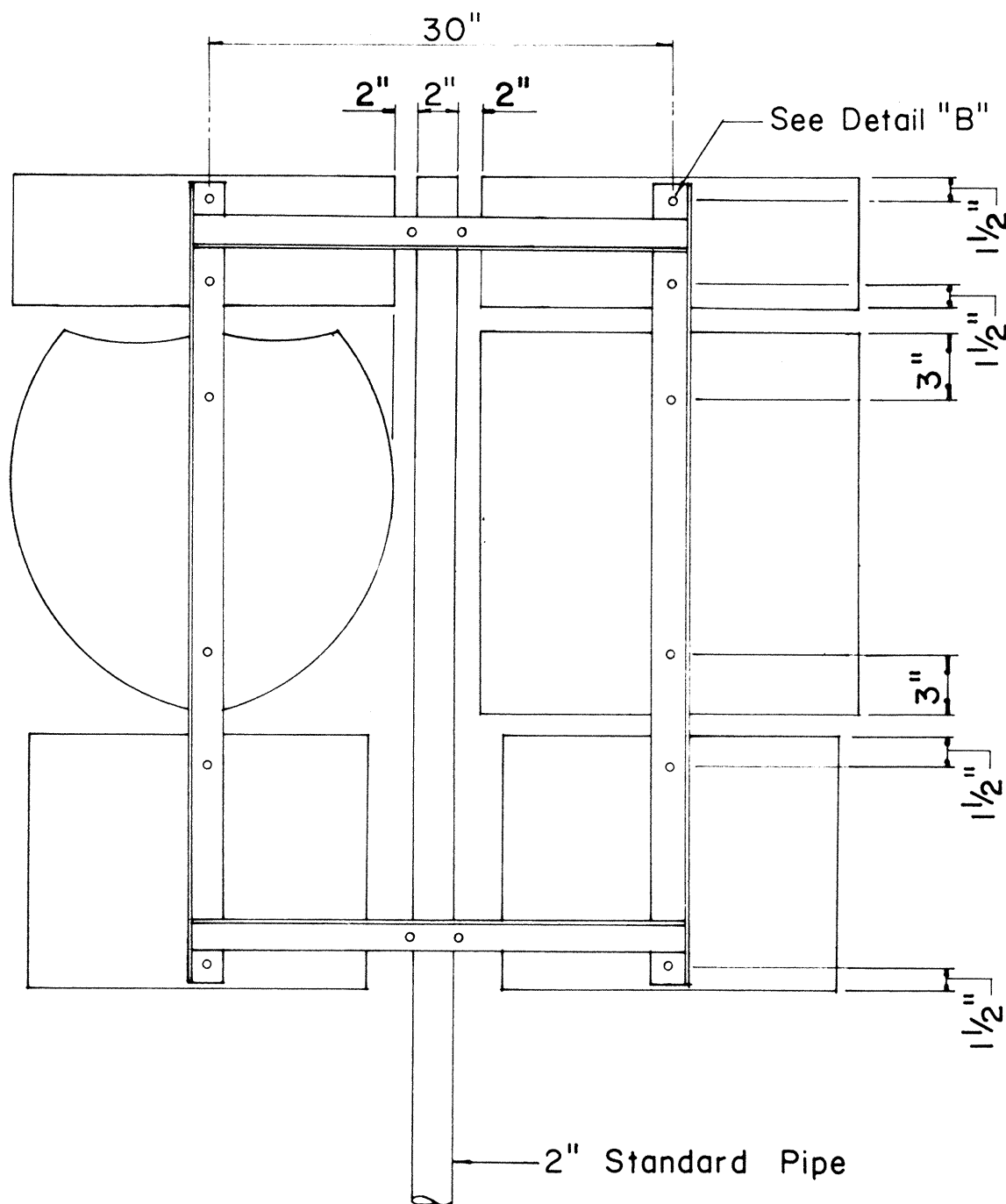
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	RS-0460(1)	1976	18	23



FRONT ELEVATION

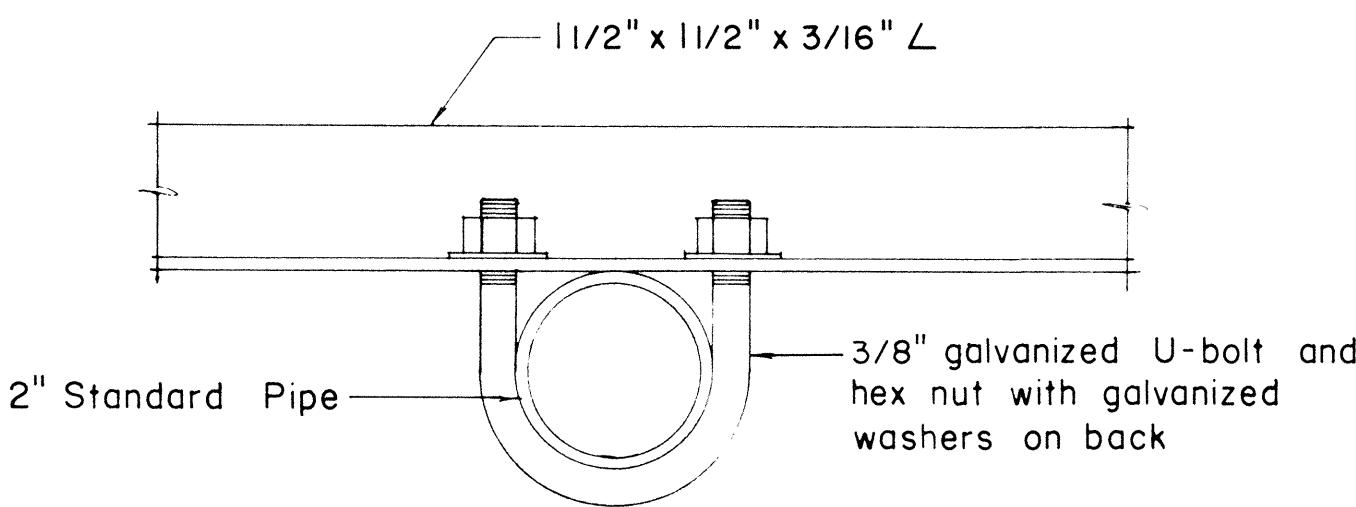
TYPE "B" ASSEMBLY

Not to Scale

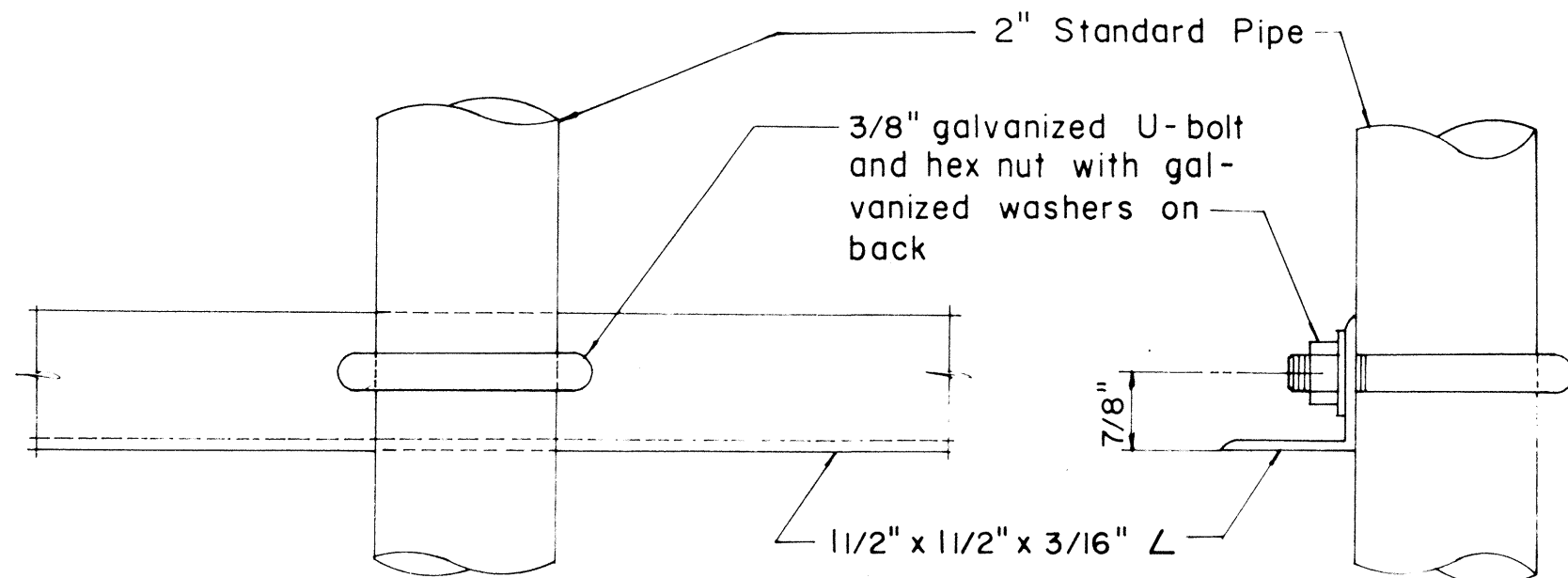


REAR ELEVATION

- NOTE:
- Minimum clearance between markers shall be one inch. (Larger clearances shall be in multiples of one inch.)
  - Pipe post for Type "A" & Type "B" Assembly shall be 2" Standard Pipe.



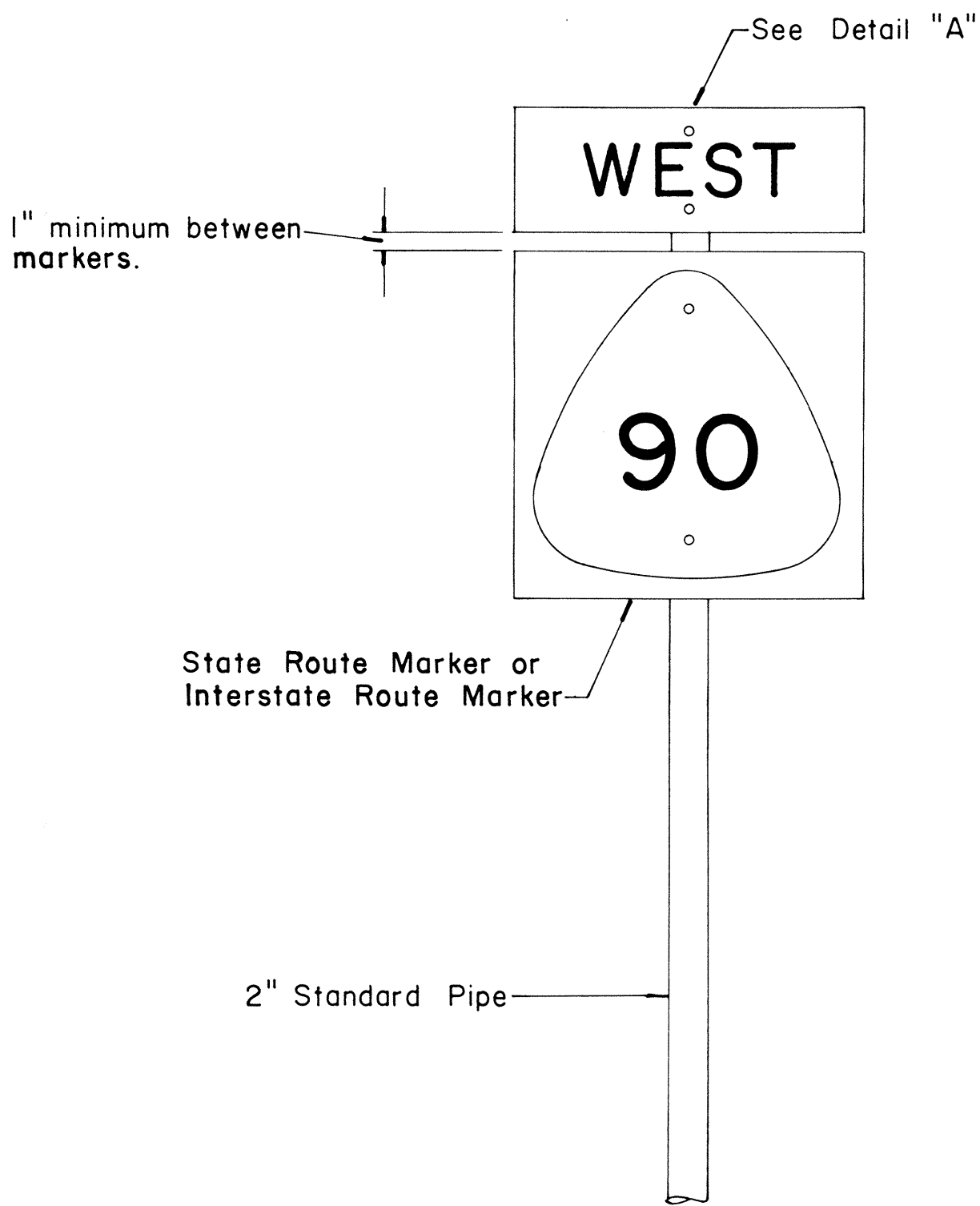
PLAN



FRONT ELEVATION

SIDE ELEVATION

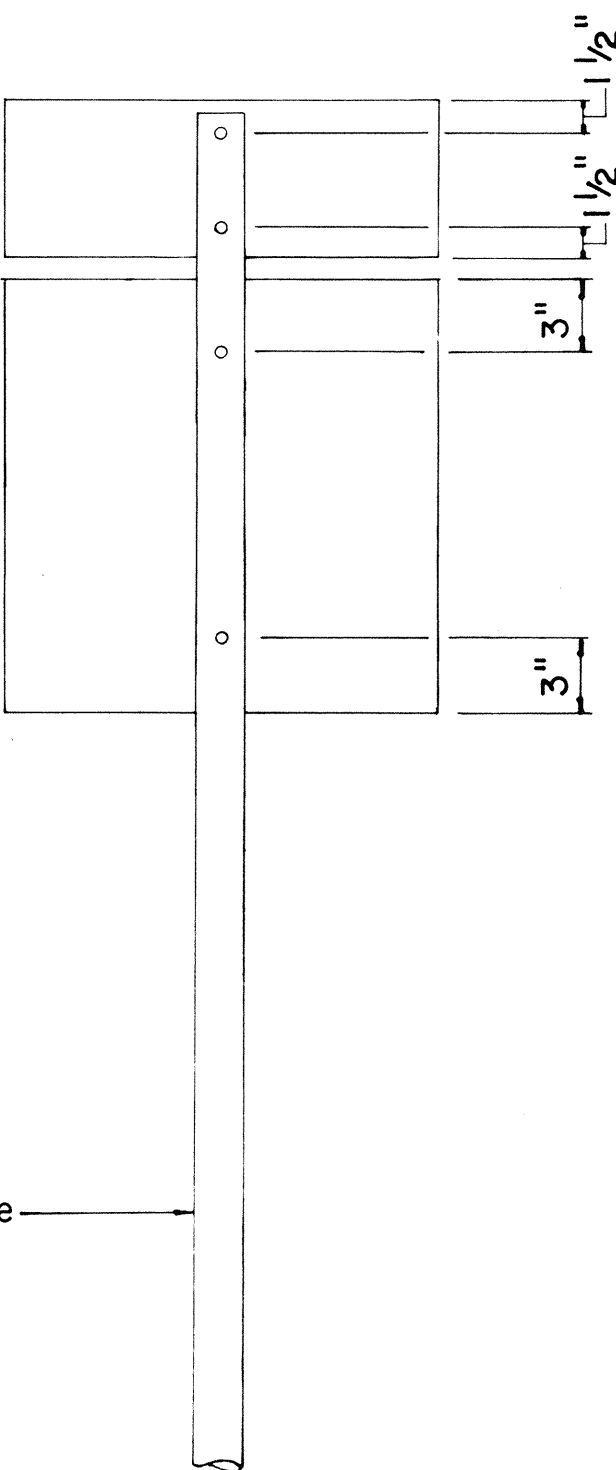
DETAIL "C"



FRONT ELEVATION

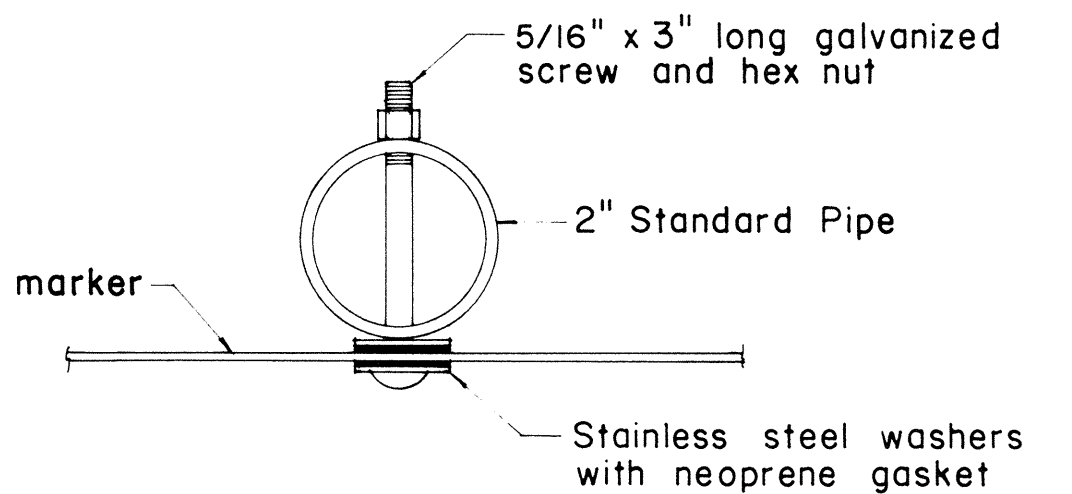
TYPE "A" ASSEMBLY

Not to Scale

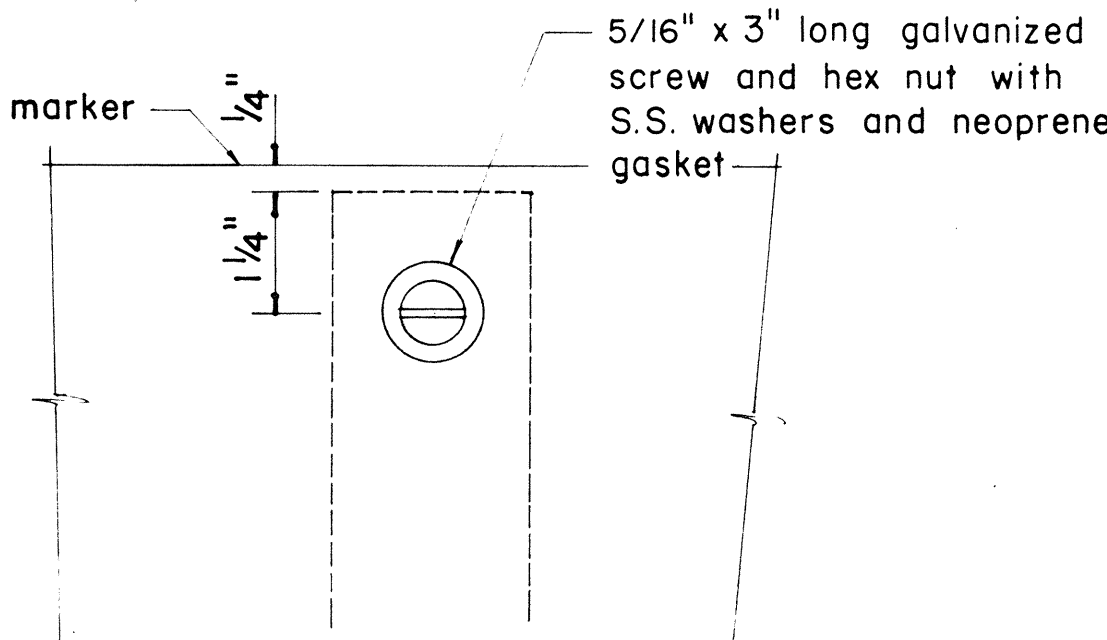


REAR ELEVATION

- NOTE:
- For height and lateral location of Route Marker Assembly, see plan sheet DT 100.

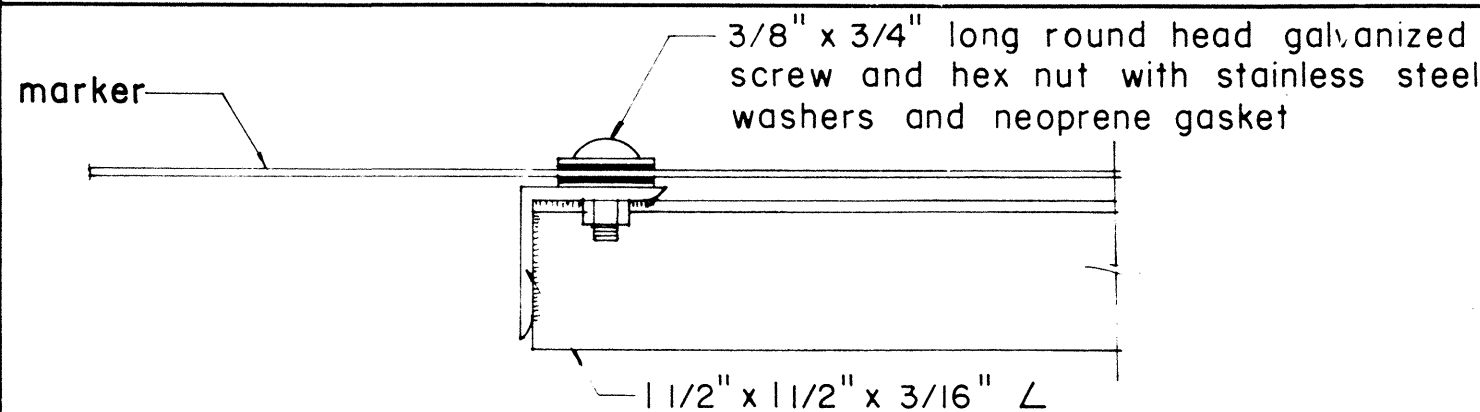


PLAN

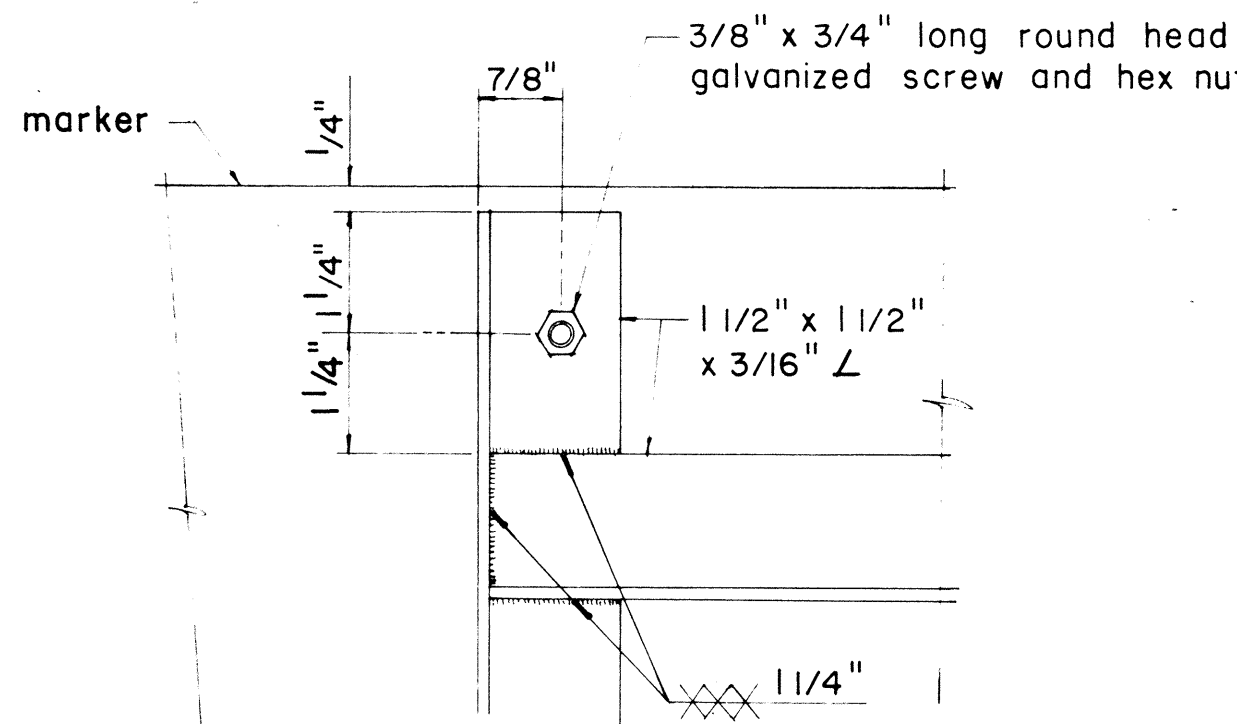


FRONT ELEVATION

DETAIL "A"

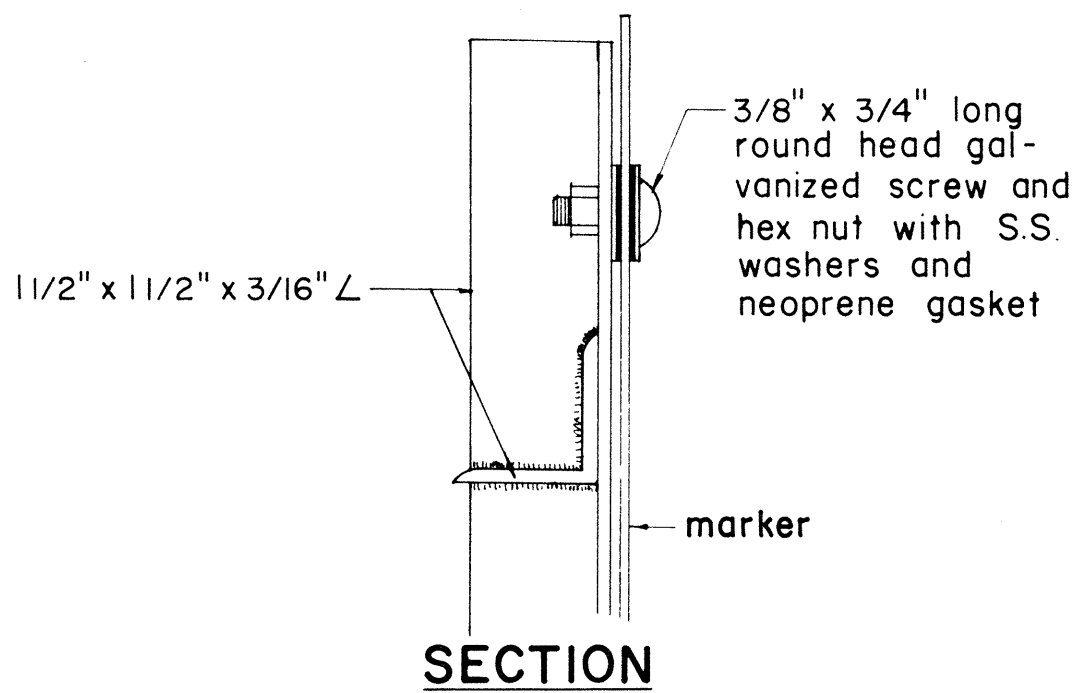


PLAN



ELEVATION

DETAIL "B"



SECTION

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

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

NO.	REVISION	APPROVED BY	DATE
1	Revisions to Route Marker Assemblies.	HT	6/1/72

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 LAND TRANSPORTATION FACILITIES DIVISION

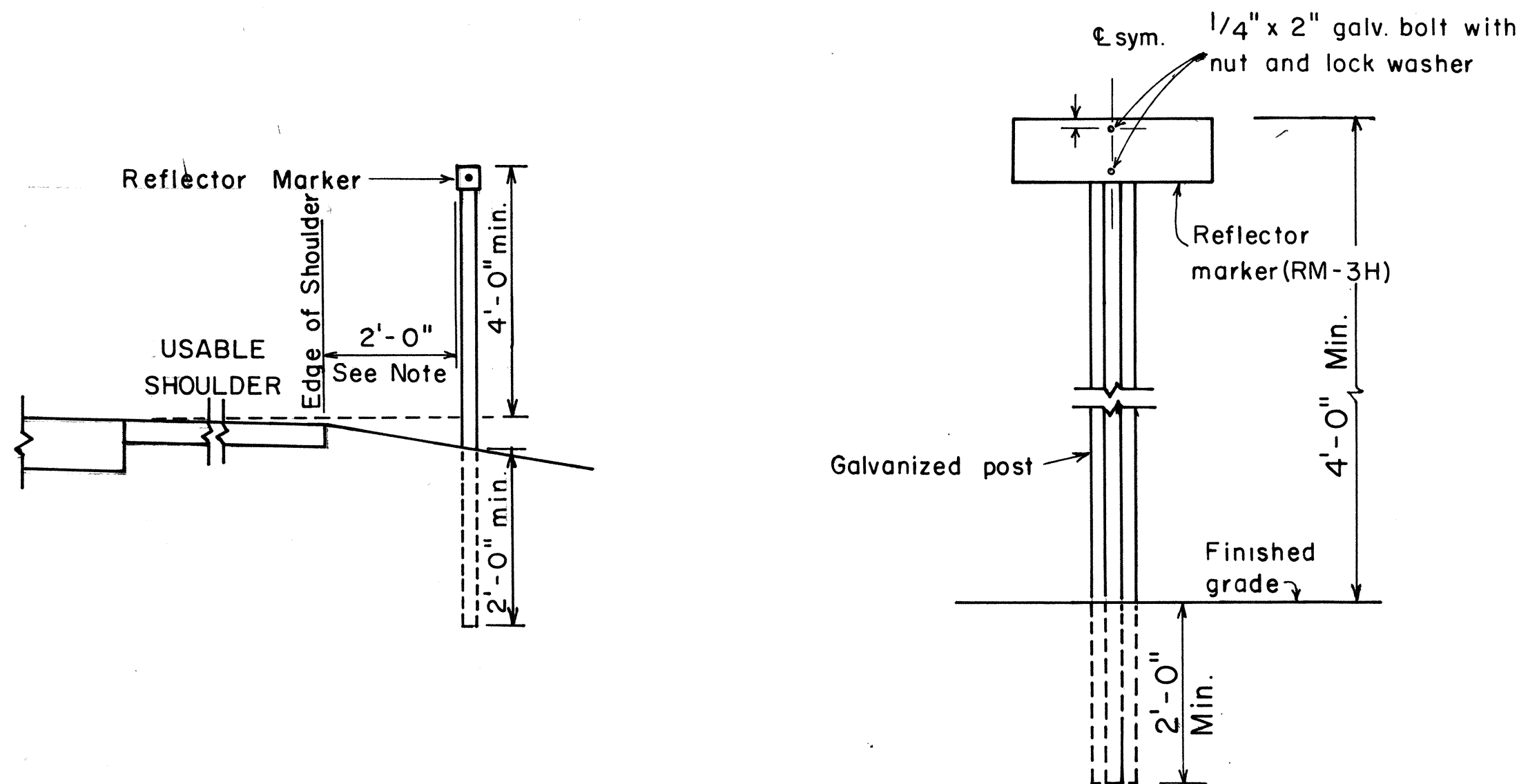
STANDARD DETAILS  
 ROUTE MARKER ASSEMBLIES

Scale: As Shown

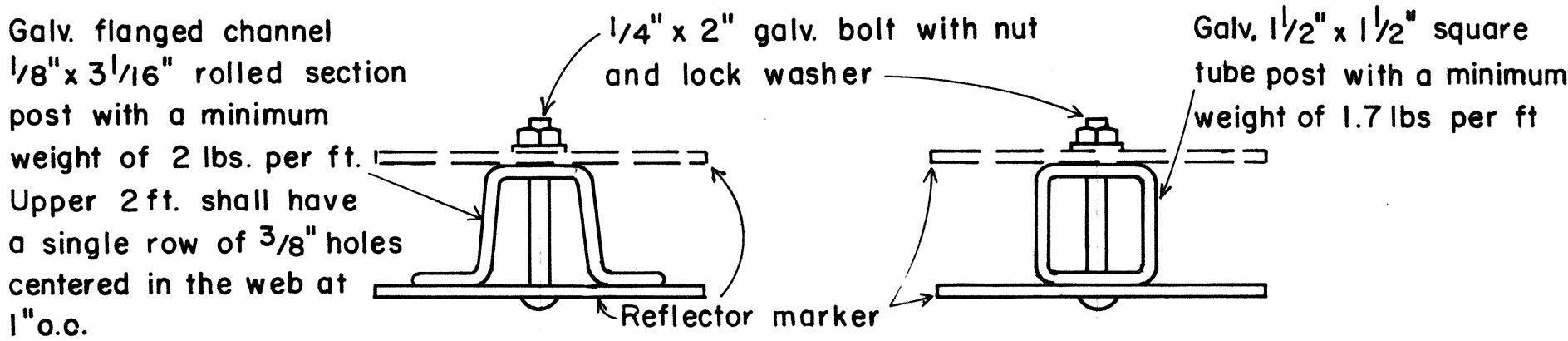
SHEET No. 7 OF 12 SHEETS DT 107

DESIGNED BY	DATE
DRAWN BY	
TRACED BY	
NOTE BOOK	
QUANTITIES BY	
CHECKED BY	
No.	

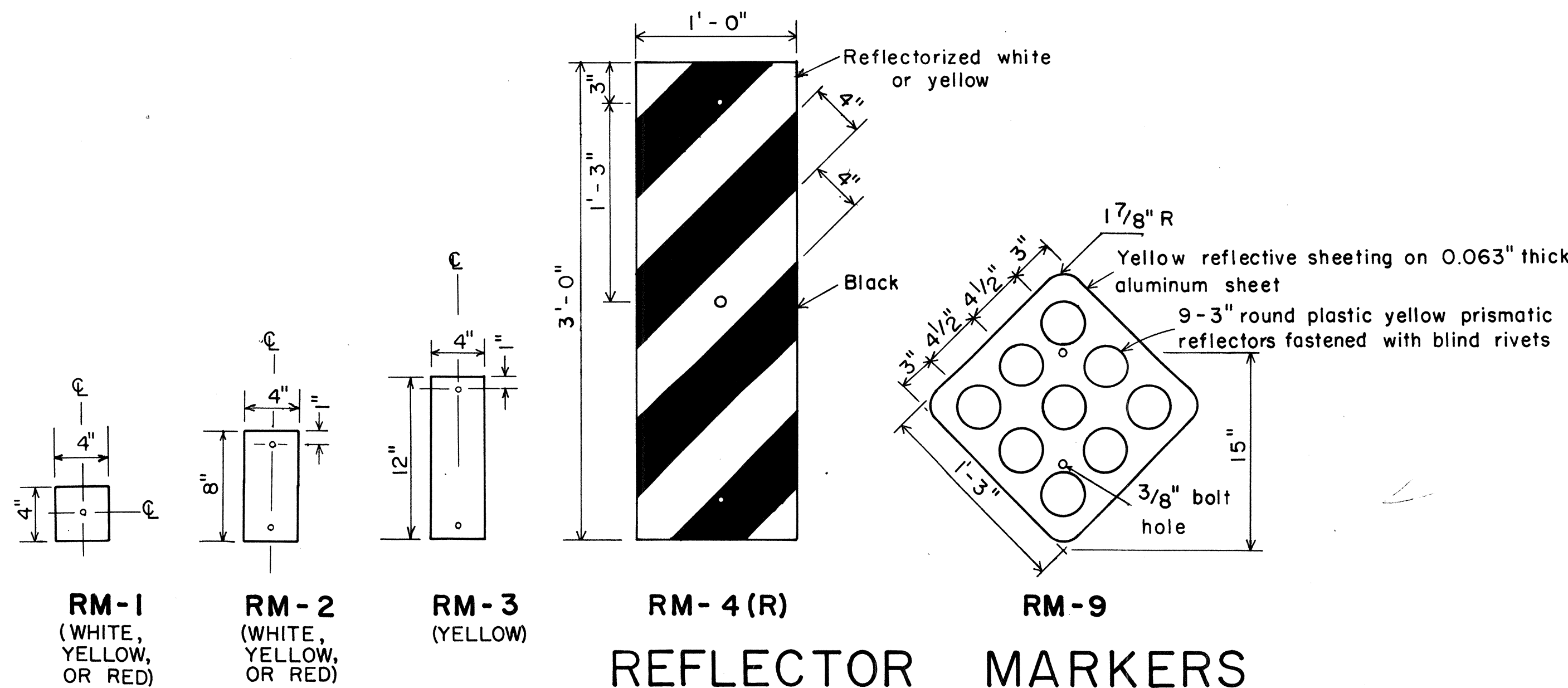
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	RS-0460(1)	1978	19	23



REFLECTOR MARKER MOUNTING DETAIL



TYPICAL SECTION OF ROAD DELINEATOR



### 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.

APPROVAL RECOMMENDED:  
*Eushi Tanaka* 11/7/77  
 TRAFFIC ENGINEER DATE

APPROVED:  
*Herbert S. Sakai* 11/15/77  
 ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION LAND TRANSPORTATION FACILITIES DIVISION	
<b>STANDARD DETAILS</b> MISCELLANEOUS REFLECTOR MARKERS	
Not to scale	June, 1977
SHEET NO. 8 OF 12 SHEETS DT 110	

SURVEY PLOTTED BY	DATE
DESIGNED BY	
TRACED BY	
DESIGNED BY	
NOTE BOOK	
CHECKED BY	
NO.	



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	RS-0460(1)	1978	20	23

GENERAL NOTES:

- Milepost marker and highway route number plates shall conform to the latest editions of the following FHWA publications:
  - "Standard Alphabets for Highway Signs," and as amended.
  - "Standard Highway Signs," and as amended.
  - "Manual on Uniform Traffic Control Devices for Streets and Highways," and as amended.
- Milepost markers and highway route numbers shall be completely reflectorized with reflective sheeting as follows:
  - Milepost markers shall have white legends and border on a green background.
  - Highway route numbers shall have black numerals on a white background.
- The plate backings for milepost markers and highway route numbers shall conform to the requirements for standard highway signs. The plates shall have 3/8" bolt holes drilled at appropriate locations.
- Highway route number plates shall be used in conjunction with milepost marker plates on all roadways, except Interstate freeways. Fabrication and installation costs of highway route number plates shall be considered incidental to the milepost marker assembly.
- Milepost markers shall be installed on all roadways as follows:
  - One milepost on each side of multi-lane roadways.
  - Back-to-back mileposts on one side of 2-lane roadways. (Right side of roadway in direction of increasing mileage.)

APPROVAL RECOMMENDED:  
*Erich Tanaka* 1/17/78  
 TRAFFIC ENGINEER DATE

APPROVED:  
*Robert S. Sakai* 1/18/78  
 ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

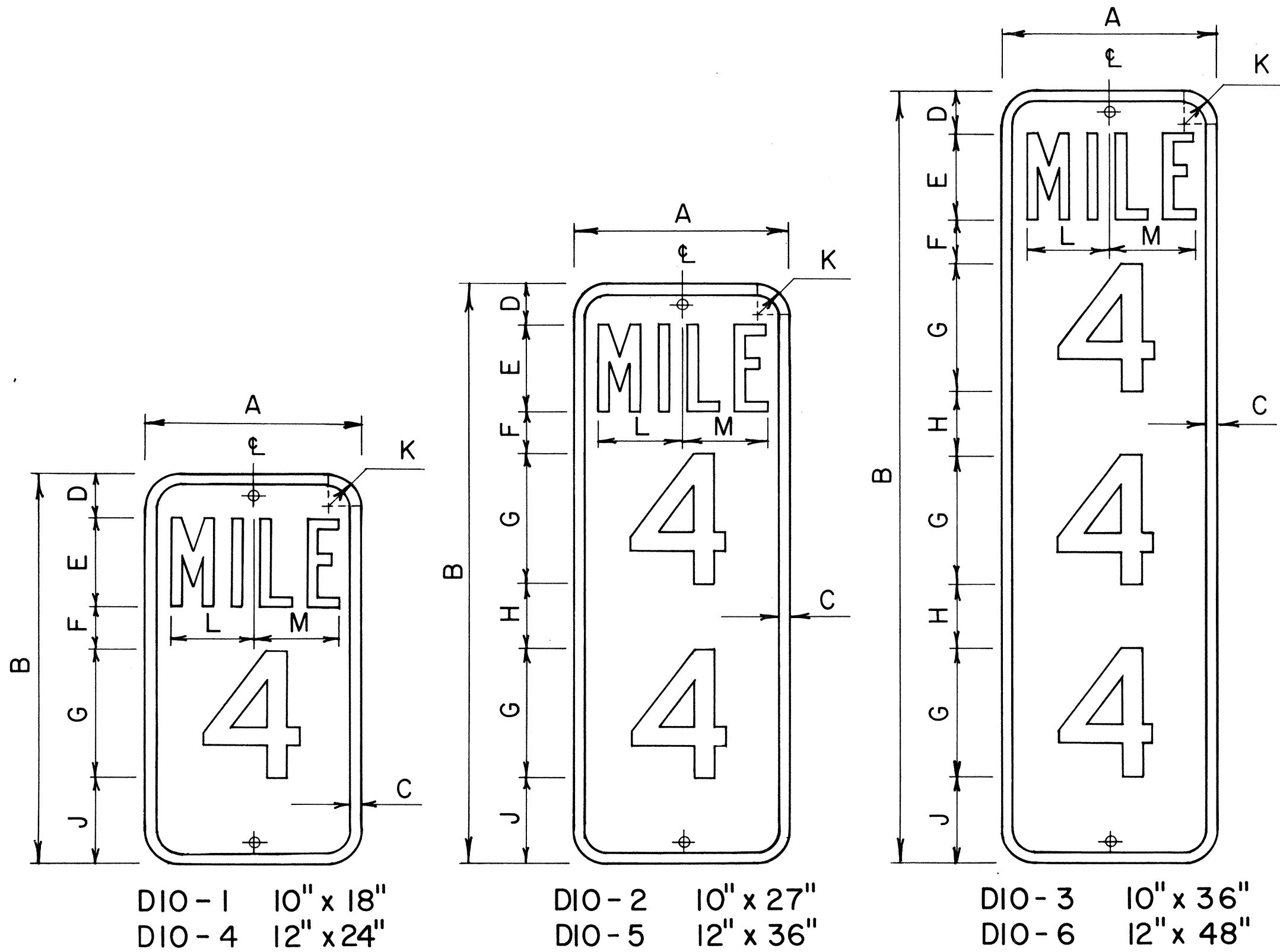
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS

MILEPOSTS

SCALE: As Shown      DATE: December, 1977

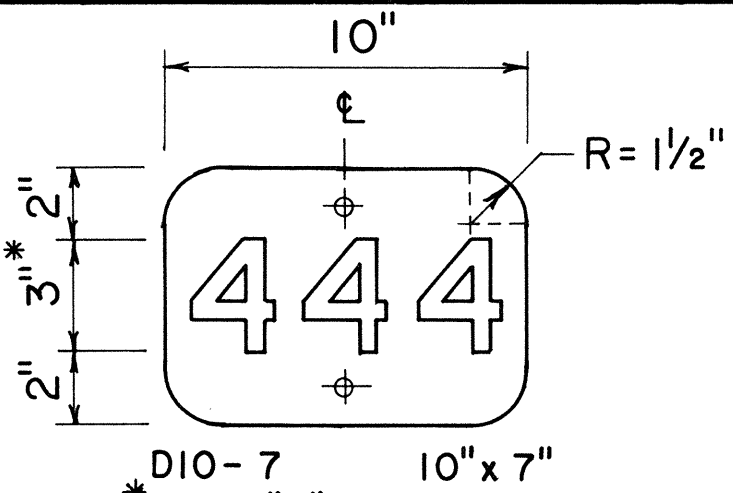
SHEET NO. 9 OF 12 SHEETS DT 116



MILEPOST MARKER PLATE DETAILS

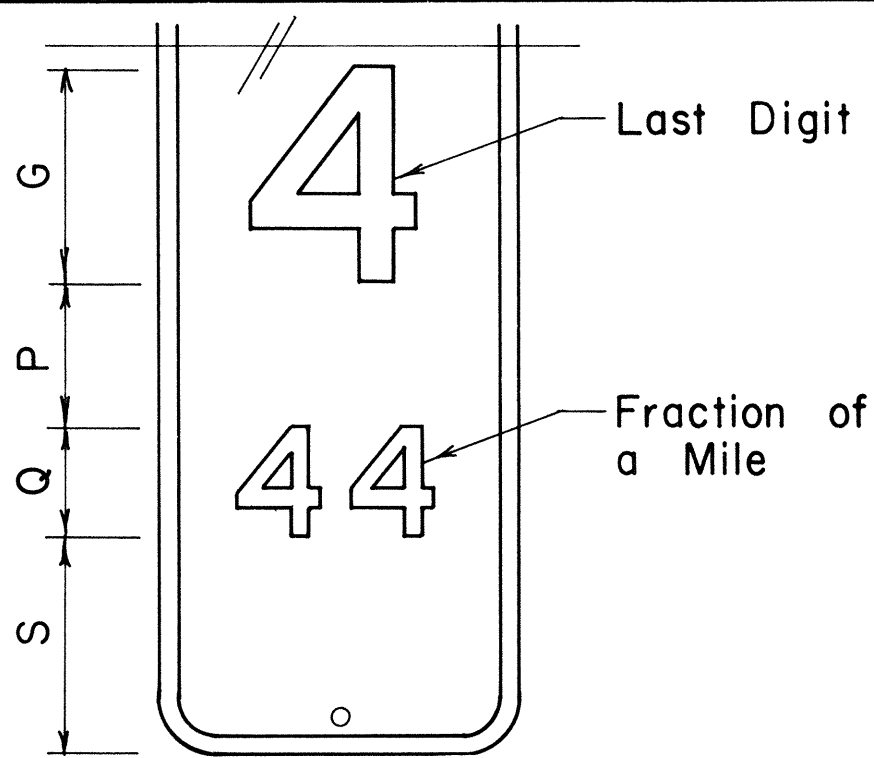
Scale: 3/16" = 1"

MILEPOST PLATE SCHEDULE (INCHES)															
NAME	SIZE	A	B	C	D	E	F	G	H	J	K	L	M	LETTER SERIES	NUMERAL SERIES
D10-1 D10-4	10 x 18 12 x 24	10 12	18 24	½ ½	2 3	4 4	2 3	6 10		4 4	1½ 1½	3⅝ 4⅞	3⅜ 4⅞	B C	C C
D10-2 D10-5	10 x 27 12 x 36	10 12	27 36	½ ½	2 3	4 4	2 3	6 10	3 3	4 3	1½ 1½	3⅝ 4⅞	3⅜ 4⅞	B C	C C
D10-3 D10-6	10 x 36 12 x 48	10 12	36 48	½ ½	2 3	4 4	2 3	6 10	3 2½	4 3	1½ 1½	3⅝ 4⅞	3⅜ 4⅞	B C	C C



HIGHWAY ROUTE NUMBER PLATE DETAIL

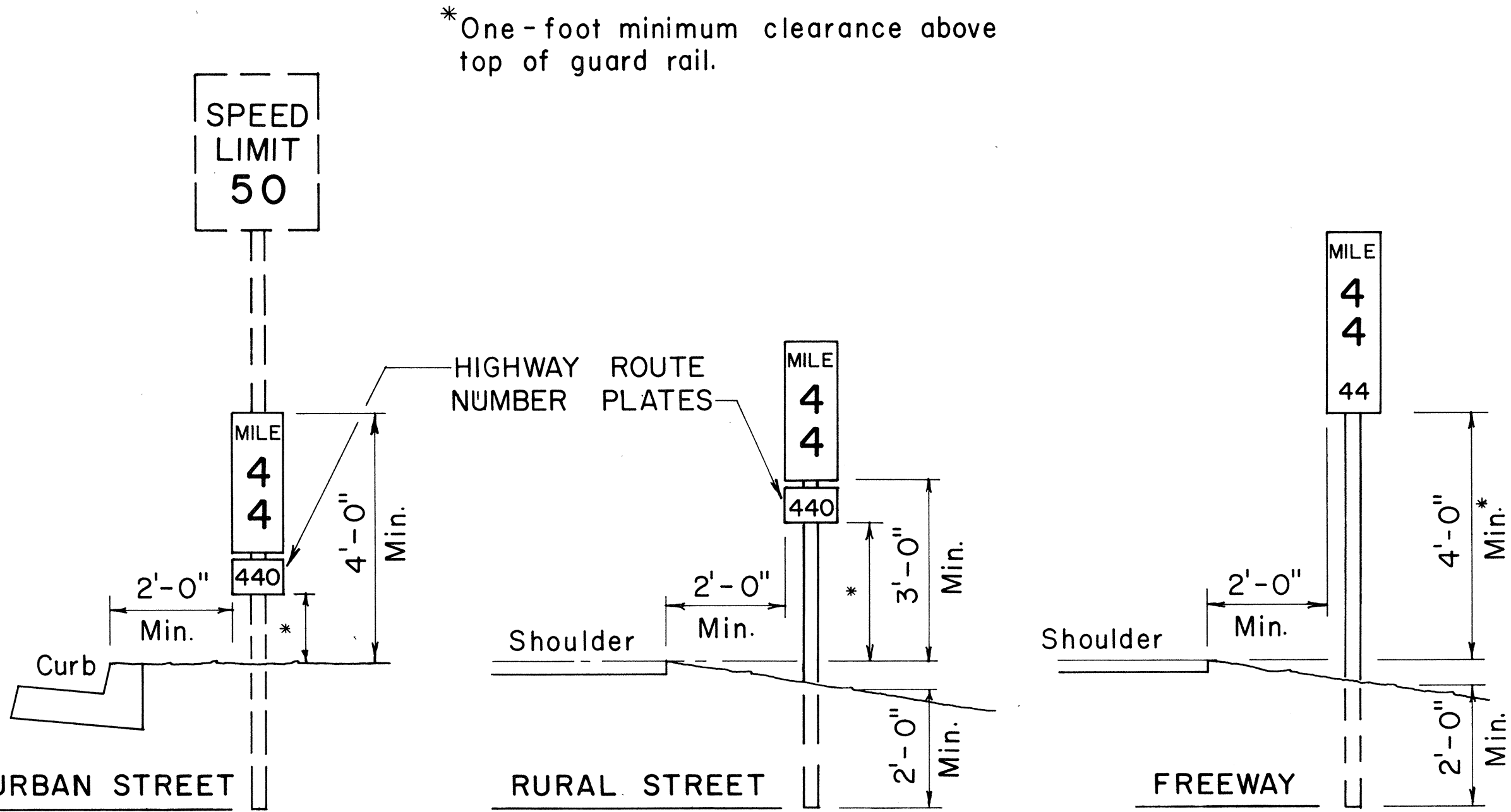
Scale: 3/16" = 1"



MILEPOST MARKER FRACTION DETAIL

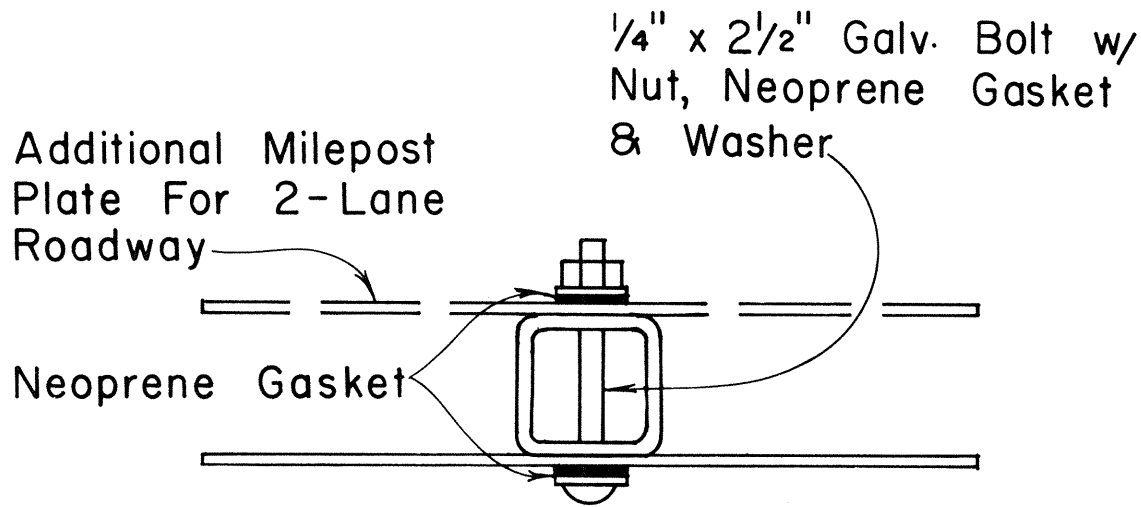
Scale: 3/16" = 1"

MILEPOST PLATE SCHEDULE WITH FRACTION OF A MILE						
NAME	SIZE	G	P	Q	S	NUMERAL SERIES
D10 - 1a	10" x 27"	6"	4"	3"	6"	C
D10 - 4a	12" x 36"	10"	4"	5"	7"	C
D10 - 2a	10" x 36"	6"	4"	3"	6"	C
D10 - 5a	12" x 48"	10"	4"	5"	6"	C
D10 - 3a	10" x 45"	6"	4"	3"	6"	C
D10 - 6a	12" x 60"	10"	4"	5"	6"	C

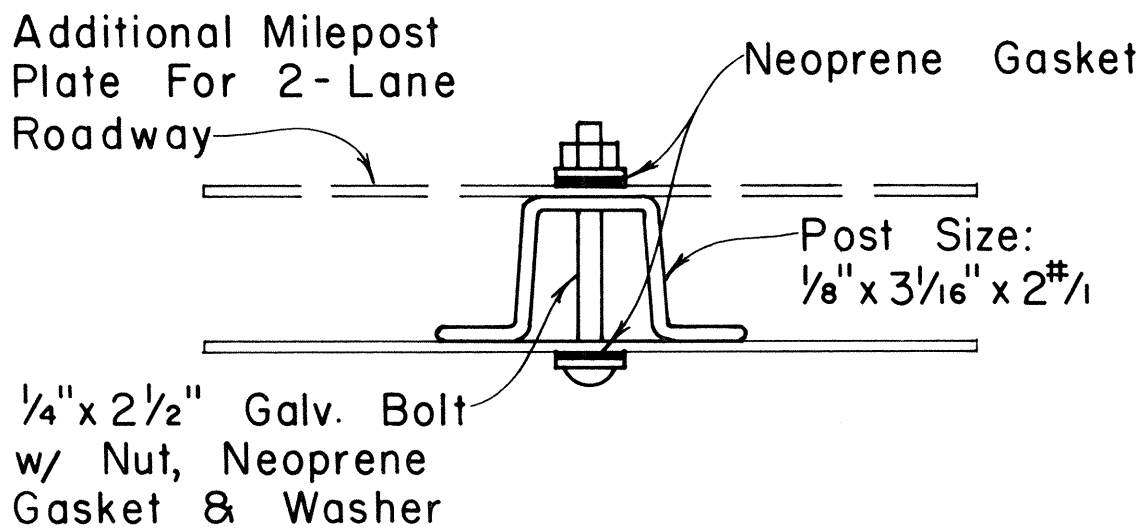


TYPICAL ROADSIDE INSTALLATION

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



GALVANIZED SQUARE TUBE POST



GALVANIZED FLANGED CHANNEL POST

TYPICAL MOUNTING DETAILS

Scale: 1/2" = 1"

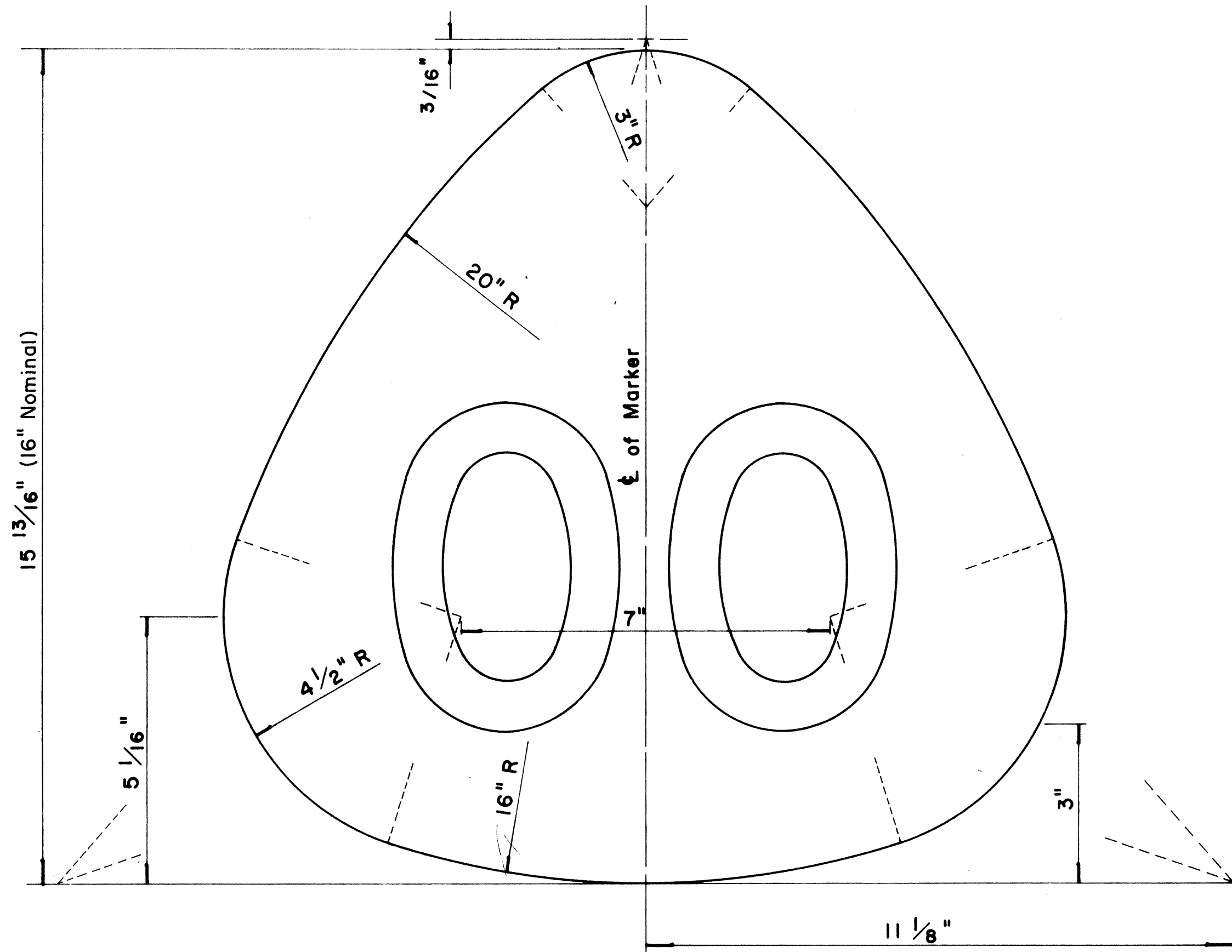




DESIGNED BY	DATE
DRAWN BY	
CHECKED BY	
NOTED BY	
NO.	

PRINTED ON NO. 1000H CLEARPRINT

MARKER SIZE	MULTIPLY DIMENSIONS BY	NUMERAL SIZE
21"	1.3	8"
32"	2.0	12"
42"	2.63	16"



### STATE ROUTE MARKER FOR GUIDE SIGNS

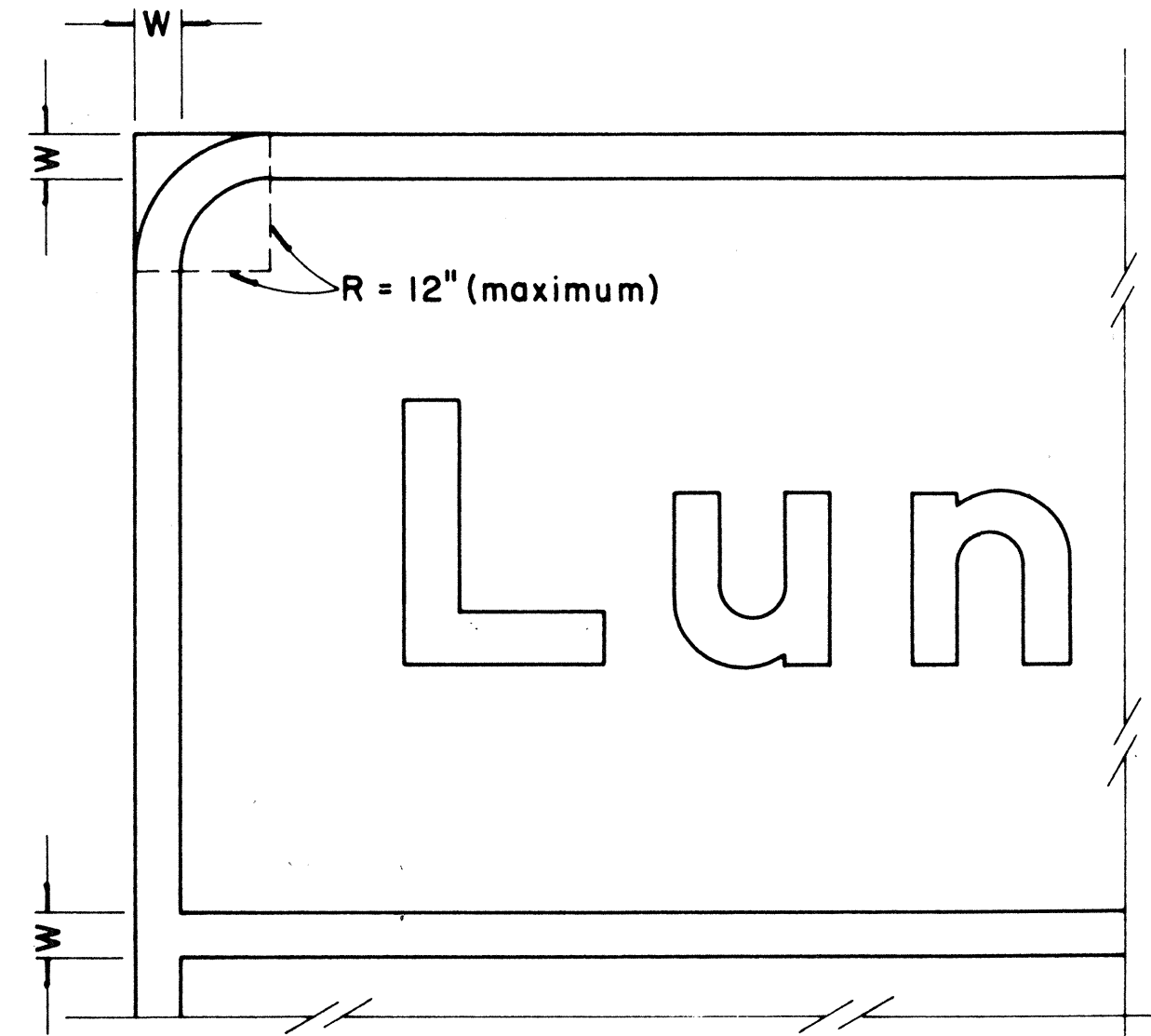
Scale: Half Size

#### NOTE:

- State Route Markers on Guide signs shall have black numerals on a white reflectorized background mounted on a flat aluminum cut-out.
- Numerals shall conform to the FHWA publication "Standard Alphabets for Highway Signs," 1966.
- 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-0460(1)	1978	22	23

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:

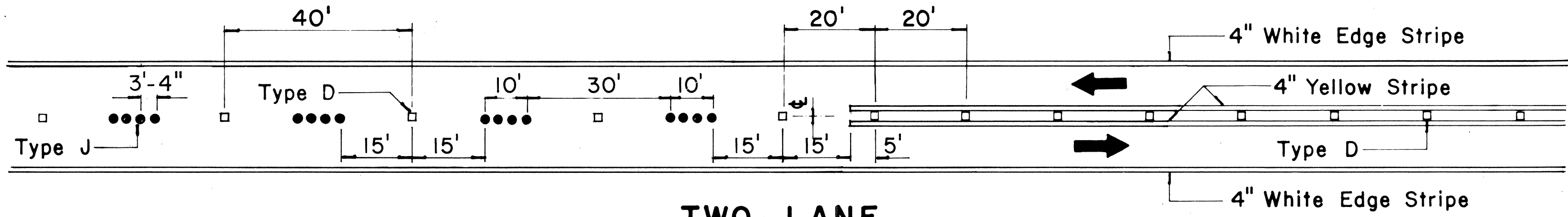
- Area outside corner radius need not be trimmed.
- All borders shall be white reflectorized cut-outs.
- All Guide signs shall have borders.

APPROVAL RECOMMENDED:  
*Erich Tanaka* 4/11/72  
 TRAFFIC ENGINEER DATE  
 APPROVED:  
*Walter Z. Zalsinski* 4/12/72  
 ASSISTANT CHIEF, ENGINEERING DATE

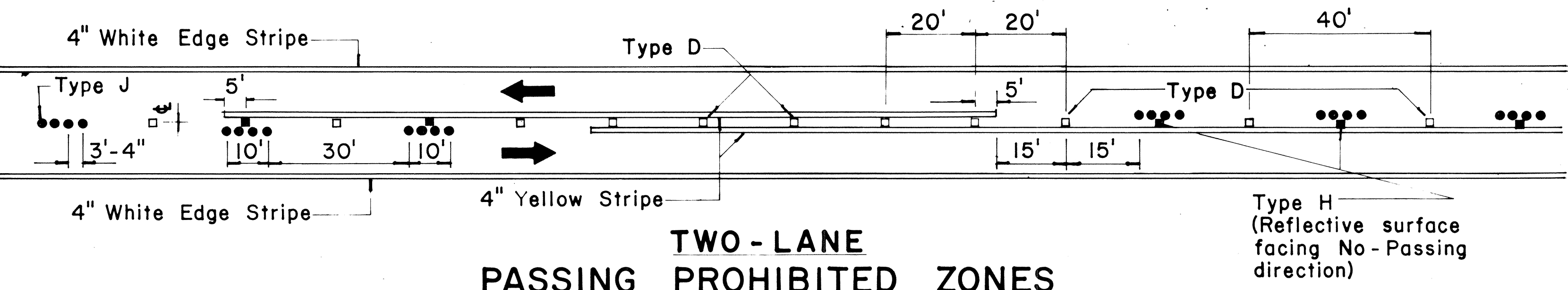
NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 209 Approved 12-30-69	H.T.	4/12/72
2	Revised Notes and Schedules	H.T.	9-14-76

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION LAND TRANSPORTATION FACILITIES DIVISION STANDARD DETAILS STATE ROUTE MARKER AND BORDER DETAIL FOR GUIDE SIGNS Scale: As Shown SHEET No. 11 OF 12 SHEETS DT 209
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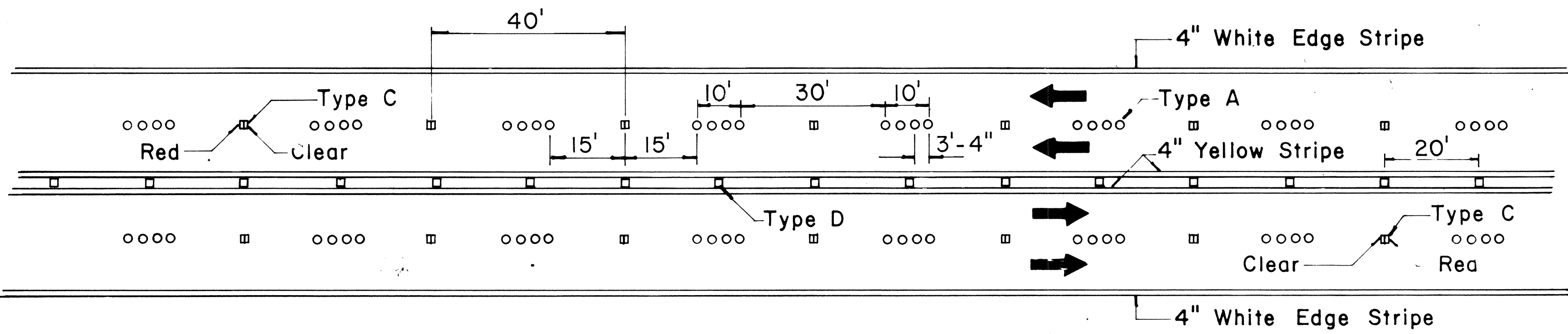
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	RS-0460(1)	1978	23	23



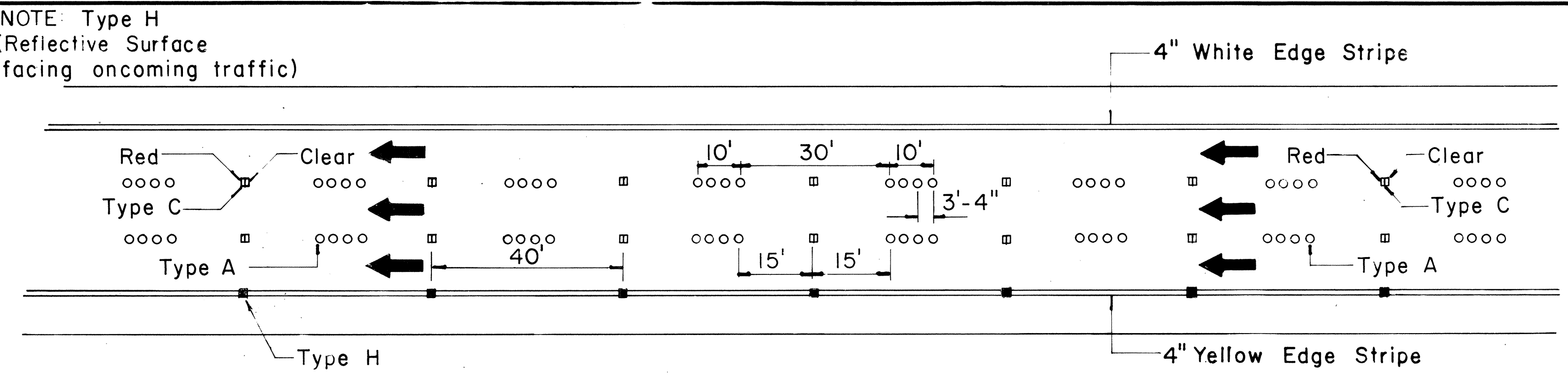
**TWO-LANE  
PASSING PERMITTED AND PASSING PROHIBITED**



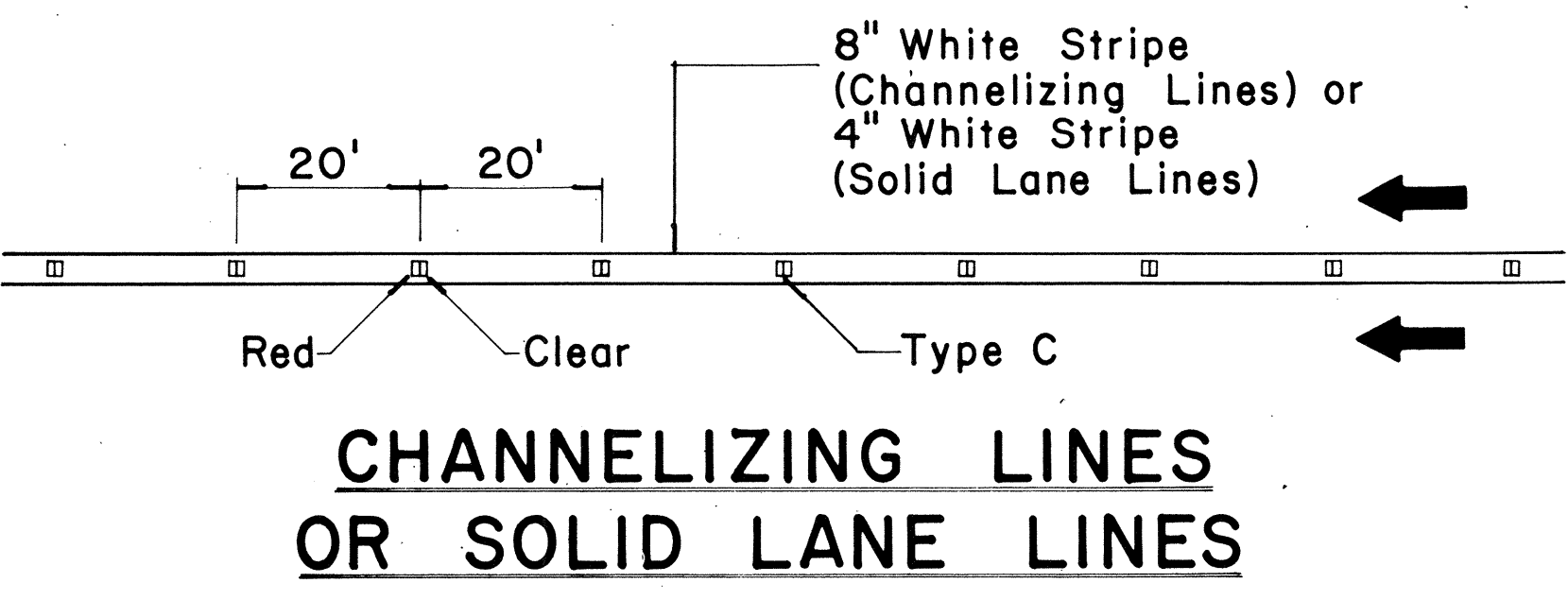
**TWO-LANE  
PASSING PROHIBITED ZONES**



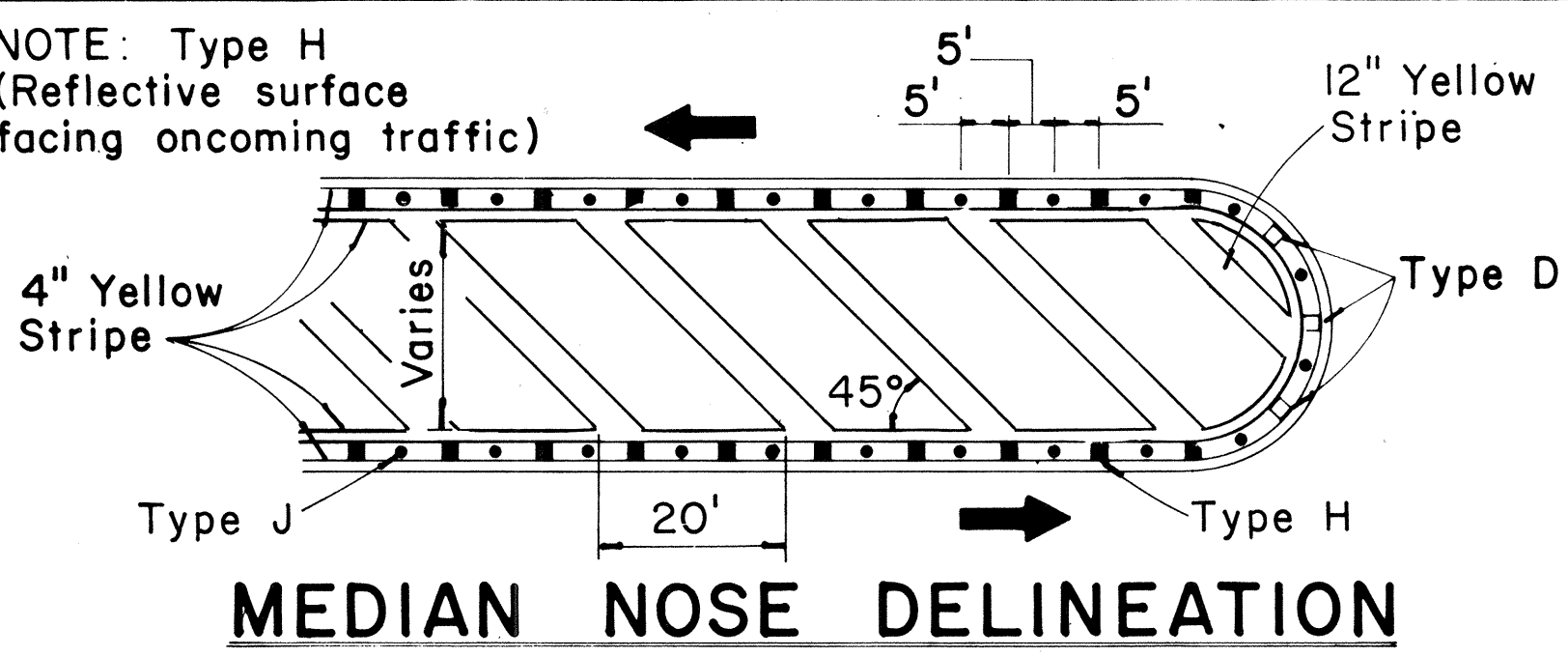
**MULTI-LANE  
LANE LINES AND CENTER LINE**



NOTE: Type H  
(Reflective Surface  
facing oncoming traffic)



**CHANNELIZING LINES  
OR SOLID LANE LINES**



NOTE: Type H  
(Reflective surface  
facing oncoming traffic)

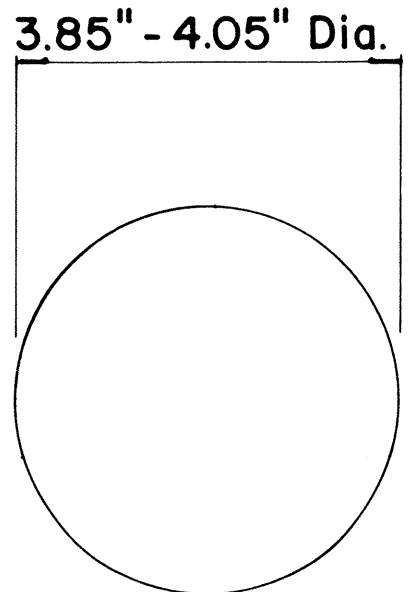
**MEDIAN NOSE DELINEATION**

**TWO - LANE**

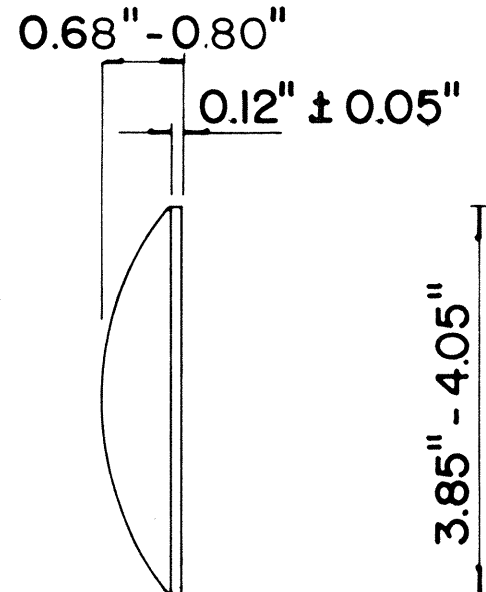
**MULTI - LANE**

**DIVIDED HIGHWAY  
AND  
FREEWAY**

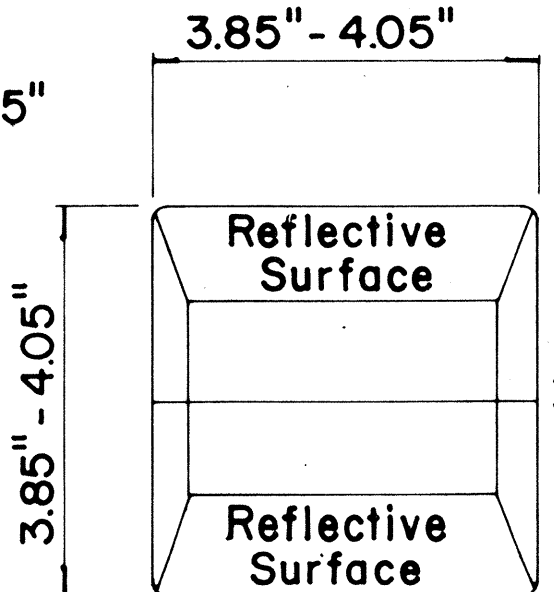
**MISCELLANEOUS**



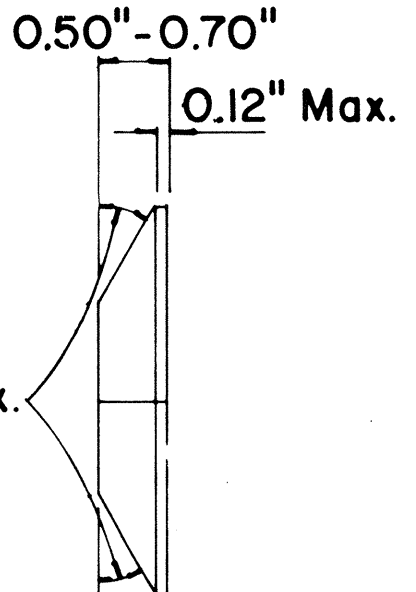
**TYPE A  
NON-REFLECTIVE WHITE MARKER**



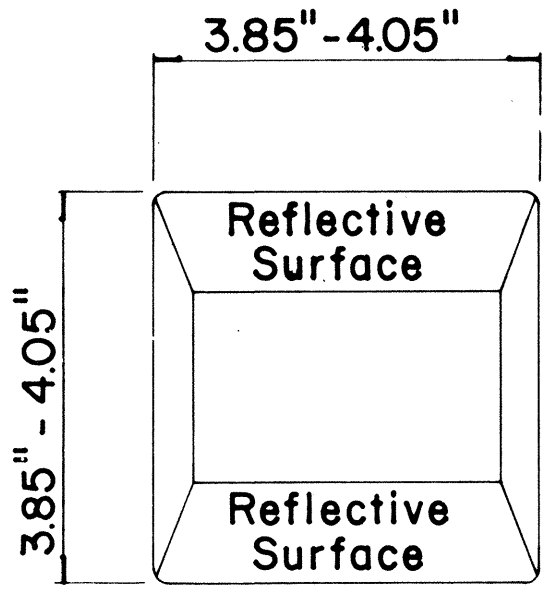
**TYPE J  
NON-REFLECTIVE YELLOW MARKER**



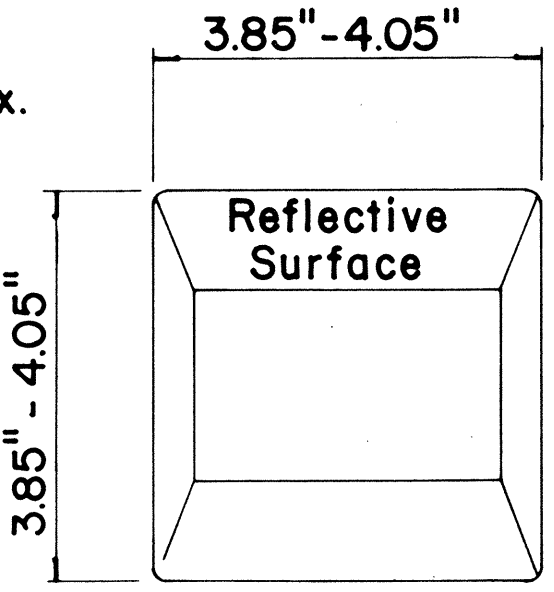
**TYPE C  
RED-CLEAR REFLECTIVE MARKER**



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



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



**GENERAL NOTES**

1. Pavement marking and striping shall conform to the latest "Manual on Uniform Traffic Control Devices for Streets and Highways," and as amended.
2. Layout and installation of pavement marking and striping shall be done by the Contractor. The Contractor shall check the layouts with the Engineer prior to performing work.

**LEGEND**

- Type A
- ◻ Type C
- ◻ Type D
- Type H
- Type J

APPROVAL RECOMMENDED:  
*Erich Tanaka* 11/10/71  
TRAFFIC ENGINEER DATE

APPROVED:  
*Hubert S. Sato* 11/18/71  
ASSISTANT CHIEF, ENGINEERING DATE

No.	REVISION	APPROVED BY	DATE
1	Add reflector marker in each line gap.	H.C.	10-21-72
2	Revised General Notes.	H.C.	10-21-72
3	Change 4" white edge stripe to 4" solid yellow edge stripe to left edge of a travel path and Add Type H Reflector Marker.	H.C.	5-22-74
4	Revised details, General Notes & Title Box.	H.C.	1-13-77
5	Revised dimensions on Type A & J Markers	H.C.	4-18-78

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION

**STANDARD DETAILS  
RAISED PAVEMENT MARKERS  
AND STRIPING**

Not to Scale October 1971  
SHEET No. 12 OF 12 SHEETS DT 300

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