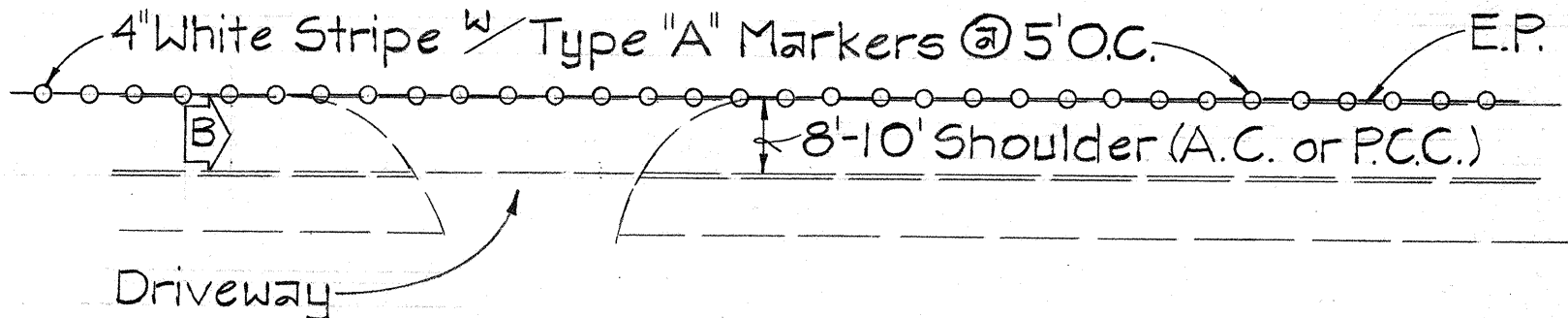
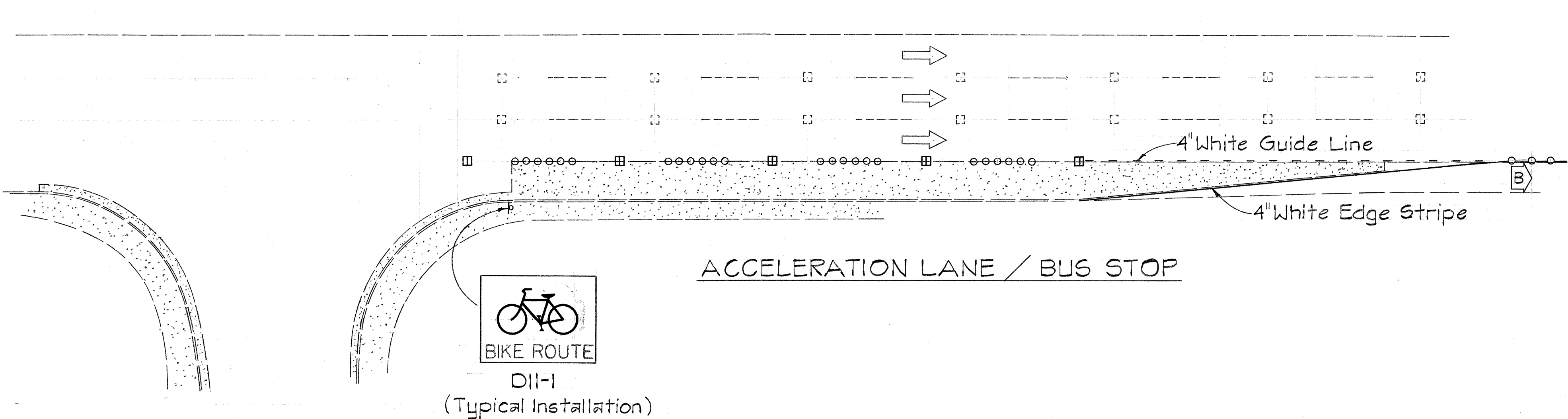


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72C-02-73 Phase I	1974	3	8

TYPICAL BIKEWAY PAVEMENT MARKINGS AT VARIOUS LOCATIONS



TYPICAL BIKEWAY MARKINGS

GENERAL NOTES

- Bike route signs shall conform to plans and specifications for regulatory and warning signs except as noted.
- Bikeway pavement markings shall be installed on Kalaniana'ole Highway as follows:
 - Inbound lanes from a point approx. 300' west of West Hind Drive to Kalaniiki Street.
 - Outbound lanes from the east side of Waikui Street to Wailupe Place.
- Layout of pavement markings shall be done by the contractor and approved by the Engineer.
- Sign details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, and "Standard Highway Signs."
- Relocate one (1) "SPEED LIMIT 35" sign located approx. 280' west of West Hind Drive to provide 1' min. clearance from edge of bikeway.

LEGEND

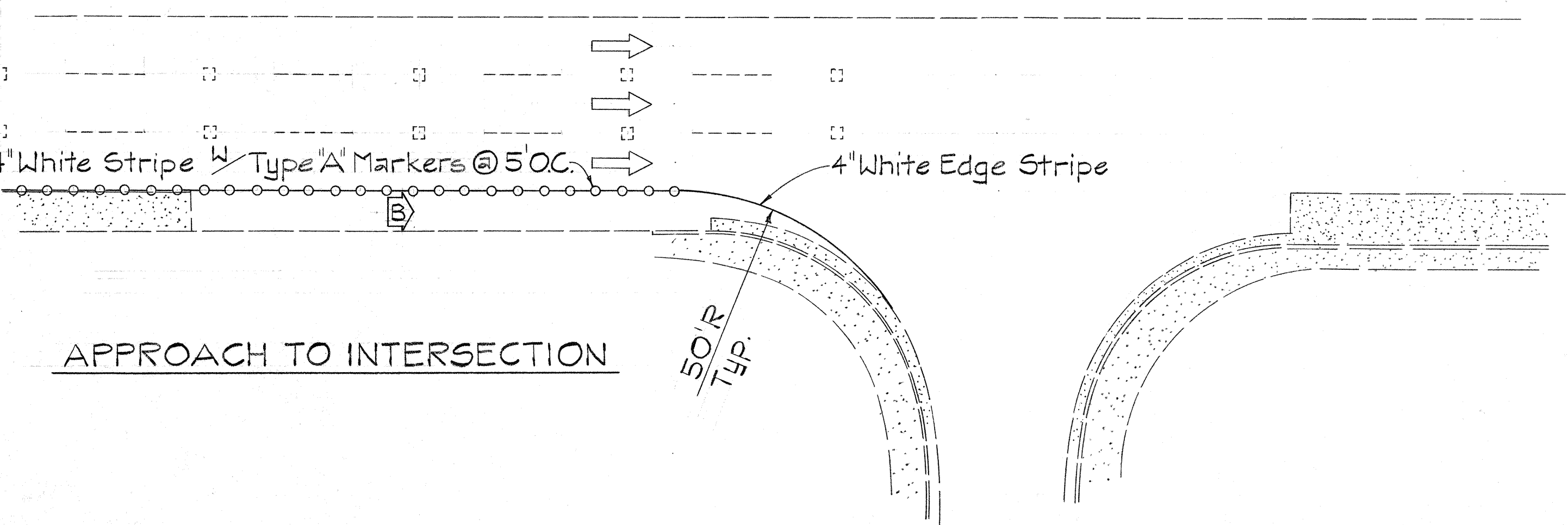
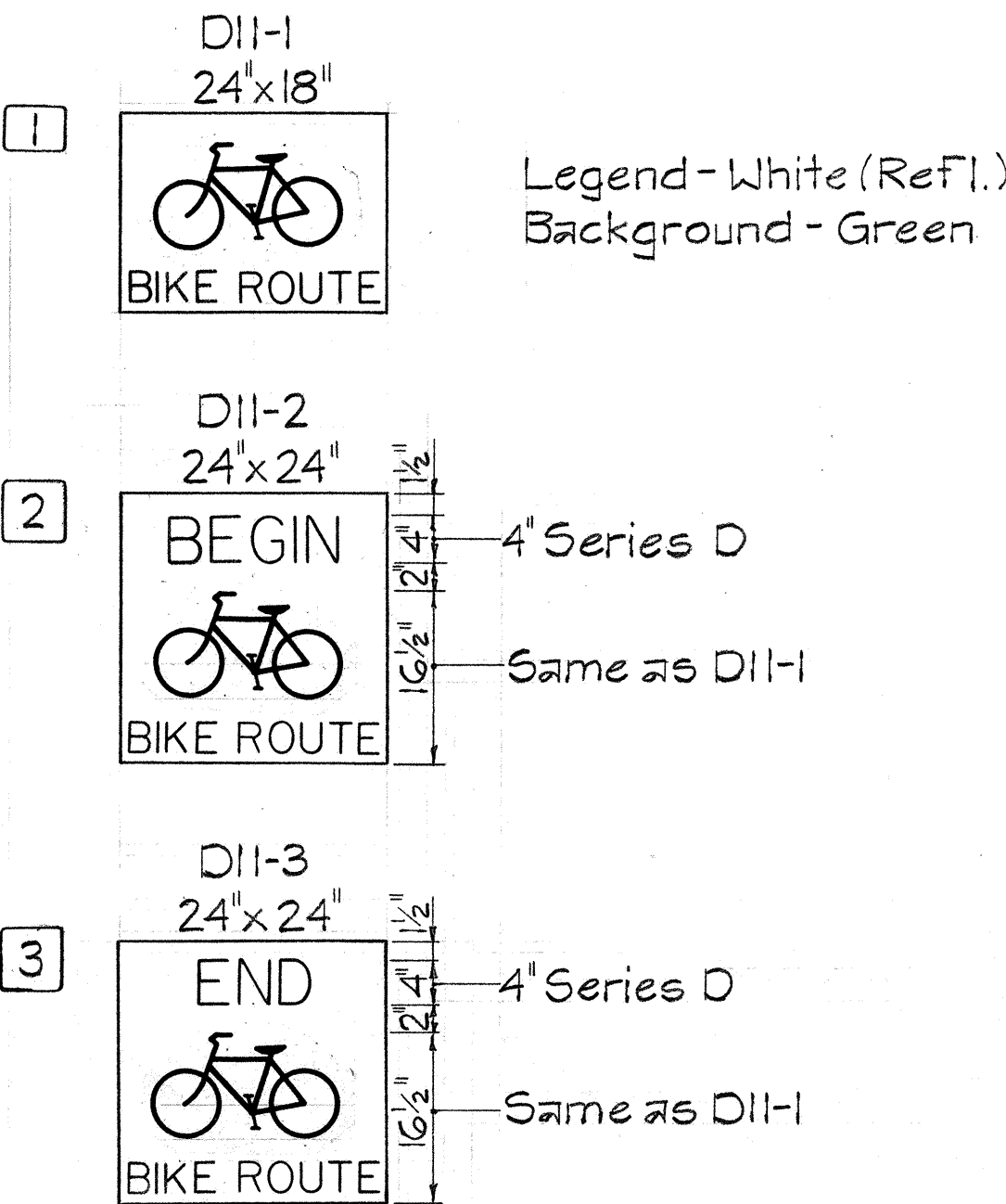
- Bike Route Marker Assembly - See Details for sign type.
- Type "A" Raised Pavement Marker
- Type "C" Raised Pavement Marker
- 4" Solid White Stripe
- 4" White Guide Line (2' stripe - 4' space)
- Bikeway

INSTALL R7-1 W/POST @ 200' SPACING AS FOLLOWS:

Outbound Lanes		Inbound Lanes	
1. Waikui St. to Waikeli St.	4 Ea.	1. West Hind Dr. to Keikilani Cir.	6 Ea.
2. Waikeli St. to Iki Pl.	2 Ea.	2. Keikilani Cir. to Waa St.	5 Ea.
3. Iki Pl. to Waiholo St.	5 Ea.	3. Waa St. to Anali St.	5 Ea.
4. Waiholo St. to Kaimoku Pl.	7 Ea.	4. Anali St. to Laukahi St.	7 Ea.
5. Kaimoku Pl. to Wailupe Cir.	13 Ea.	5. Laukahi St. to Kalaniiki St.	4 Ea.
6. Wailupe Cir. to Wailupe Pl.	3 Ea.		

Exact locations to be determined in the field by the Engineer.

BIKE ROUTE SIGN DETAILS



APPROACH TO INTERSECTION

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

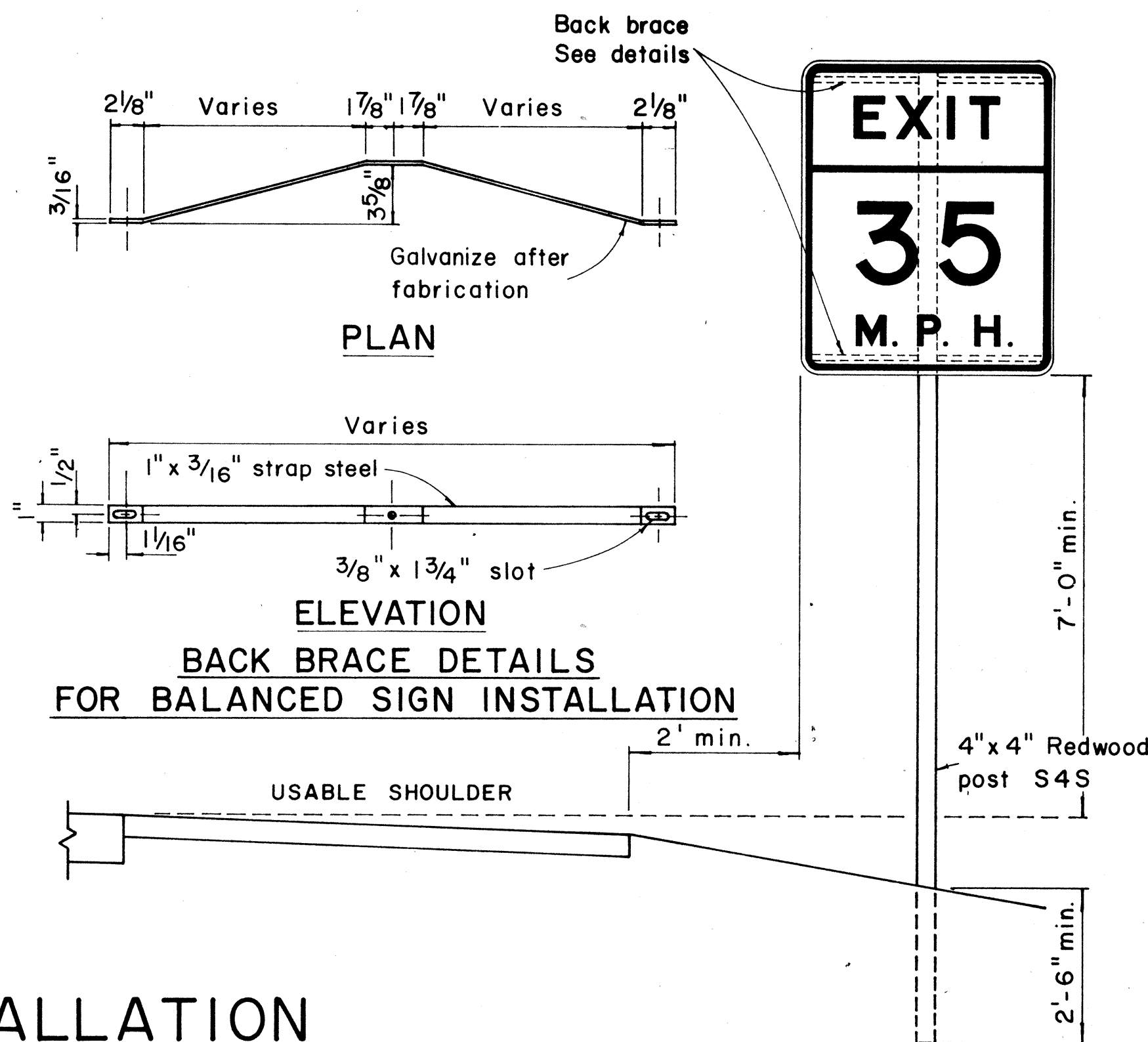
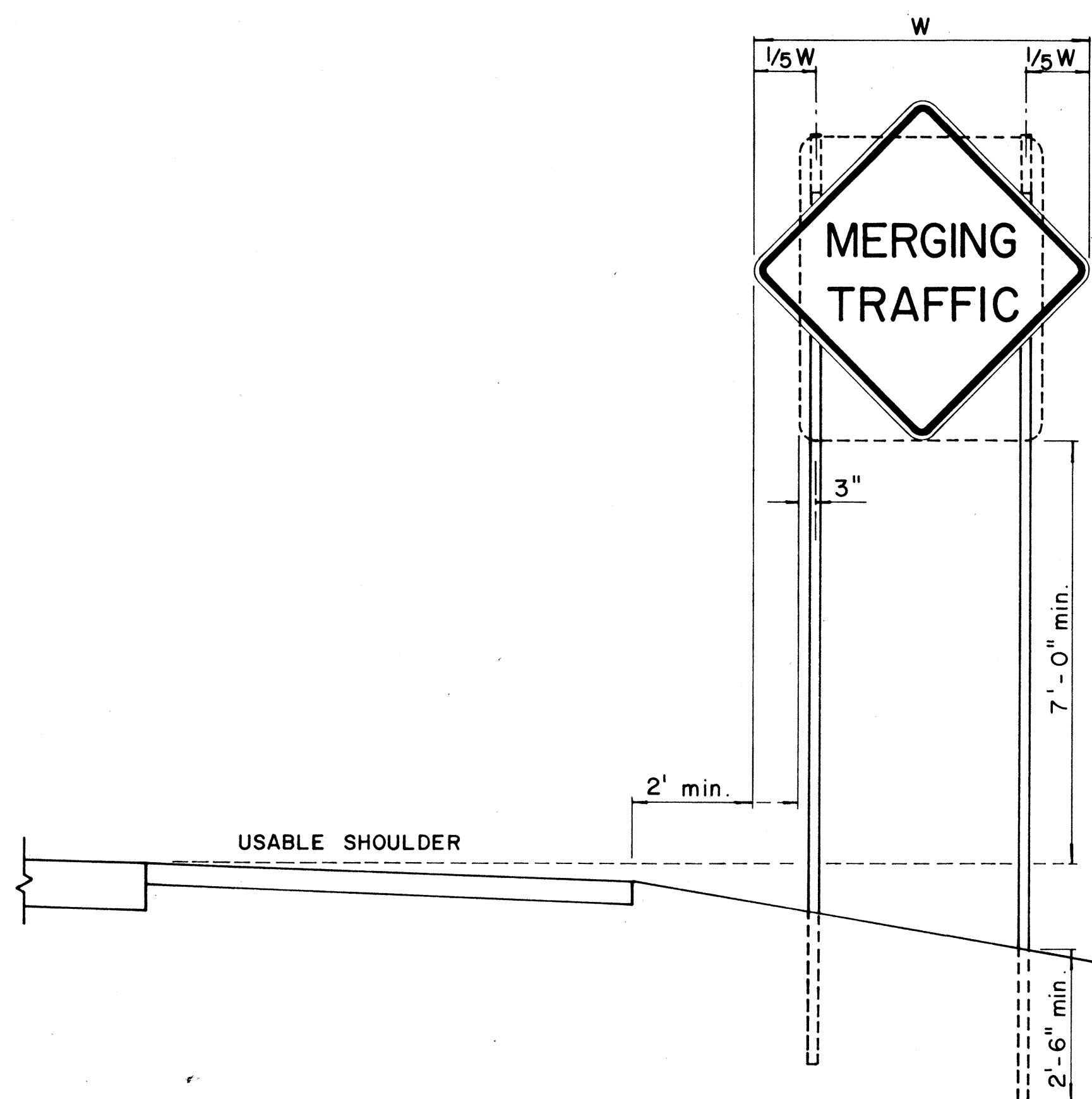
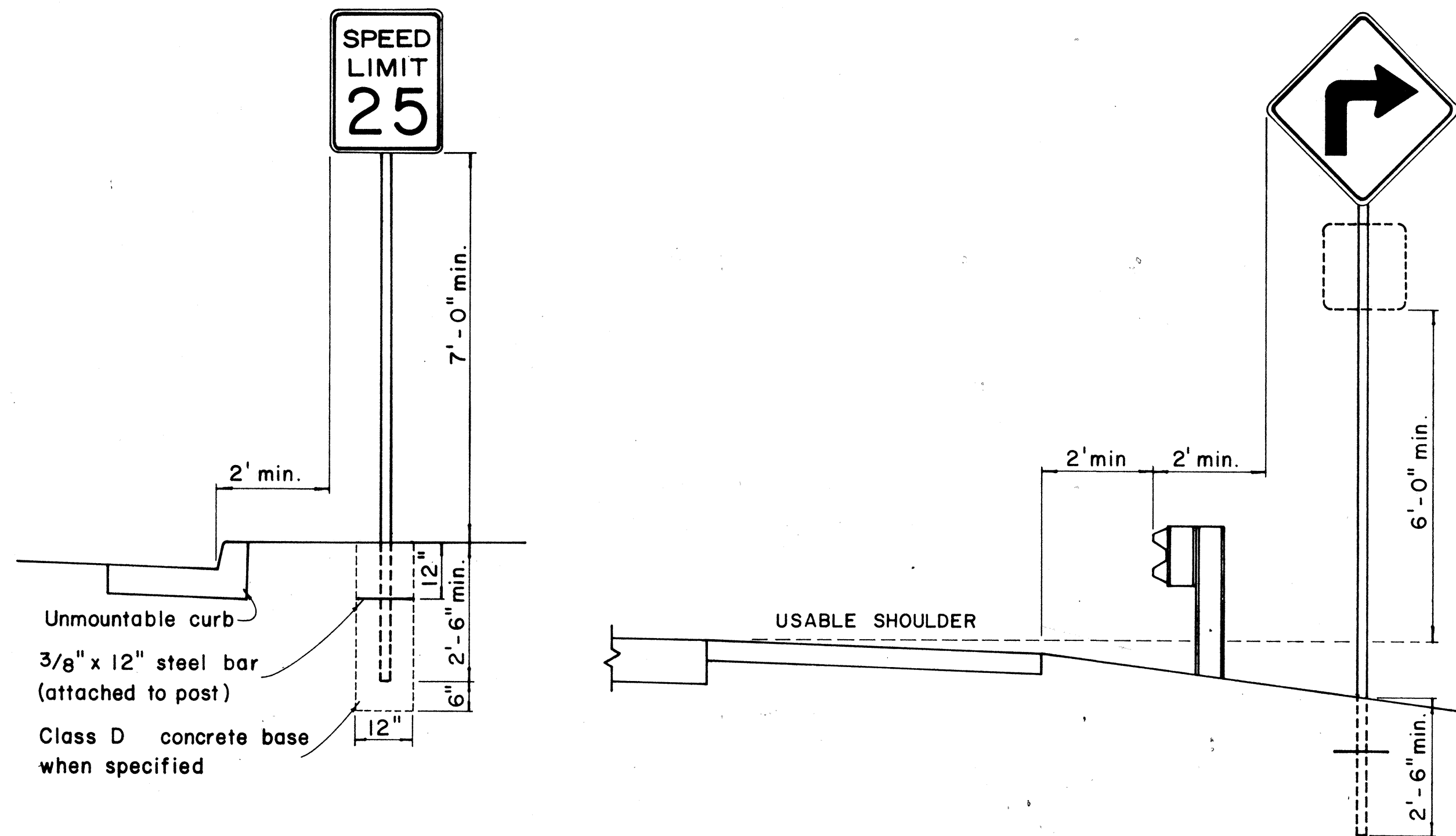
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

TRAFFIC CONTROL DEVICES
KALANIANA'OLE HIGHWAY
Bikeway from Ainakoa to Hawaii Kai Dr.
Project No. 72C-02-73
Phase I

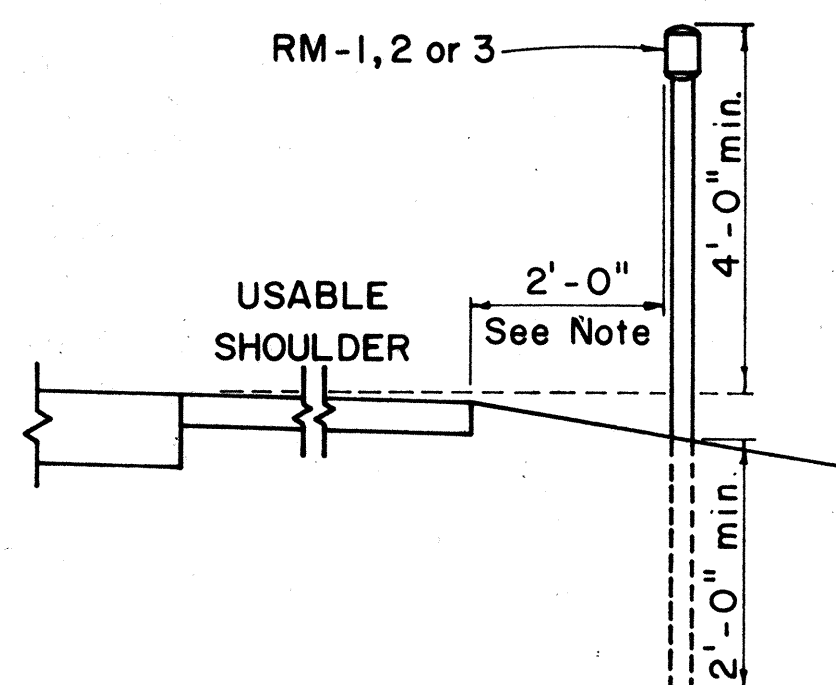
Not To Scale
SHEET NO. 1 OF 3 SHEETS

Date: May 1974

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72C-02-73 Phase I	1974	4	8

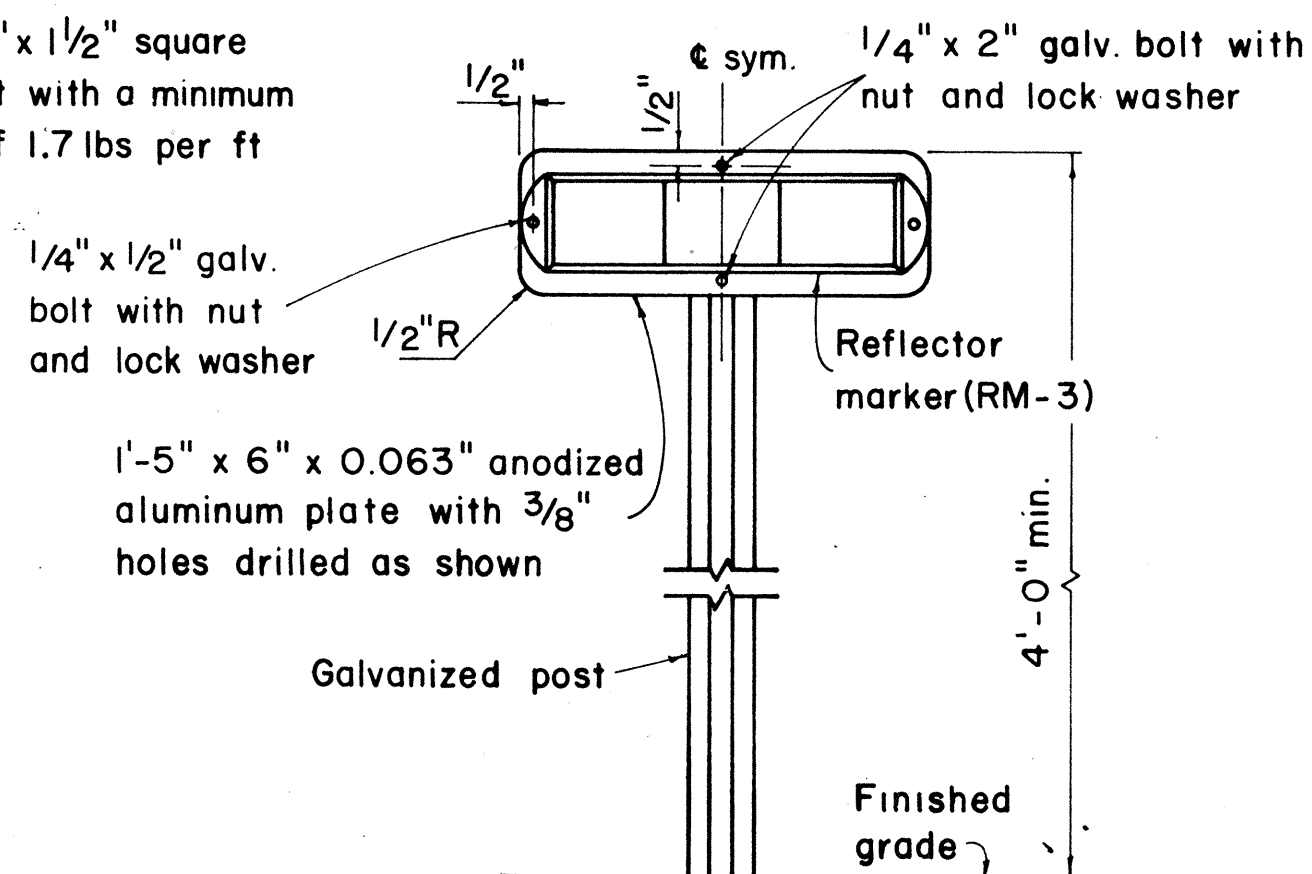


HEIGHT AND LATERAL LOCATION OF SIGNS - TYPICAL INSTALLATION

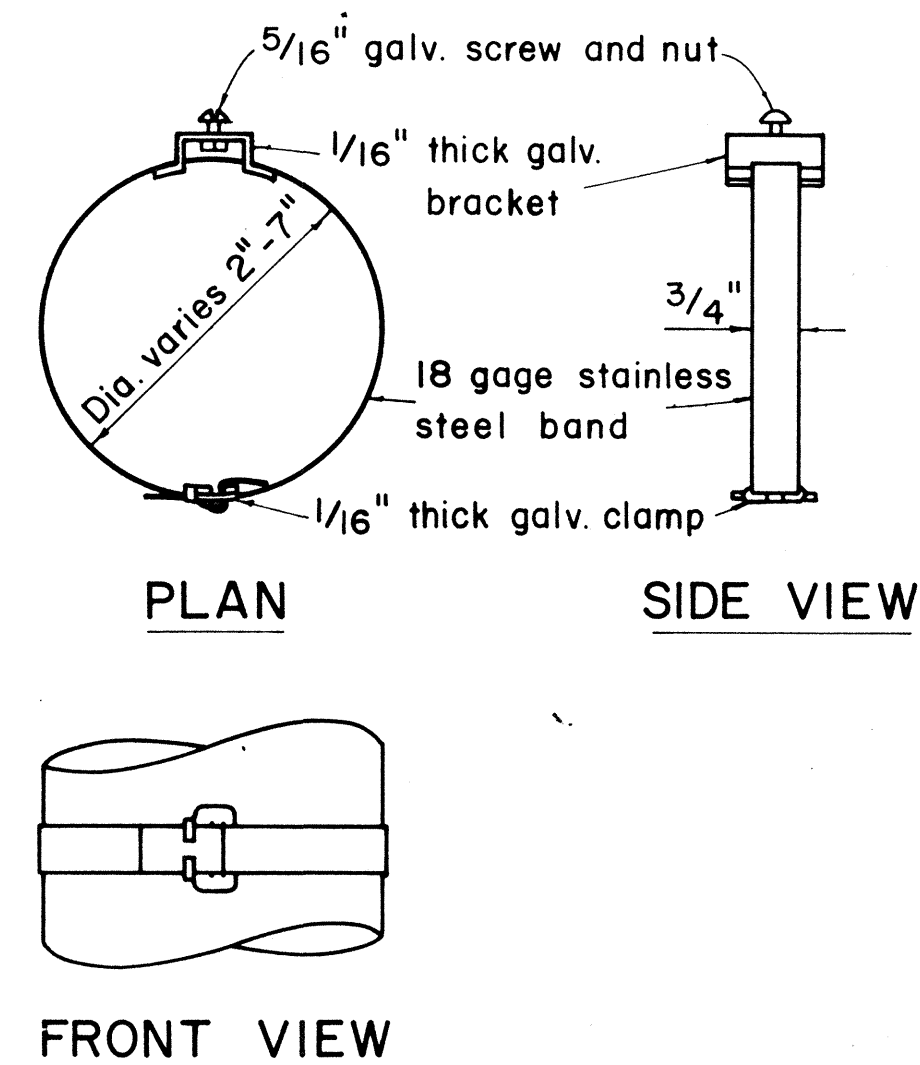


ROAD DELINEATOR

TYPICAL SECTION OF ROAD DELINEATOR



TYPICAL DETAIL
HORIZONTAL REFLECTOR MARKER
RM-3H



TYPICAL BAND BRACKET FOR
MOUNTING TRAFFIC SIGNS

GENERAL NOTES:

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

APPROVAL RECOMMENDED:

E.ichi Tanaka 12/29/69
TRAFFIC ENGINEER DATE

APPROVED:

Assistant Chief 12-20-69
ASSISTANT CHIEF, ENGINEERING DATE

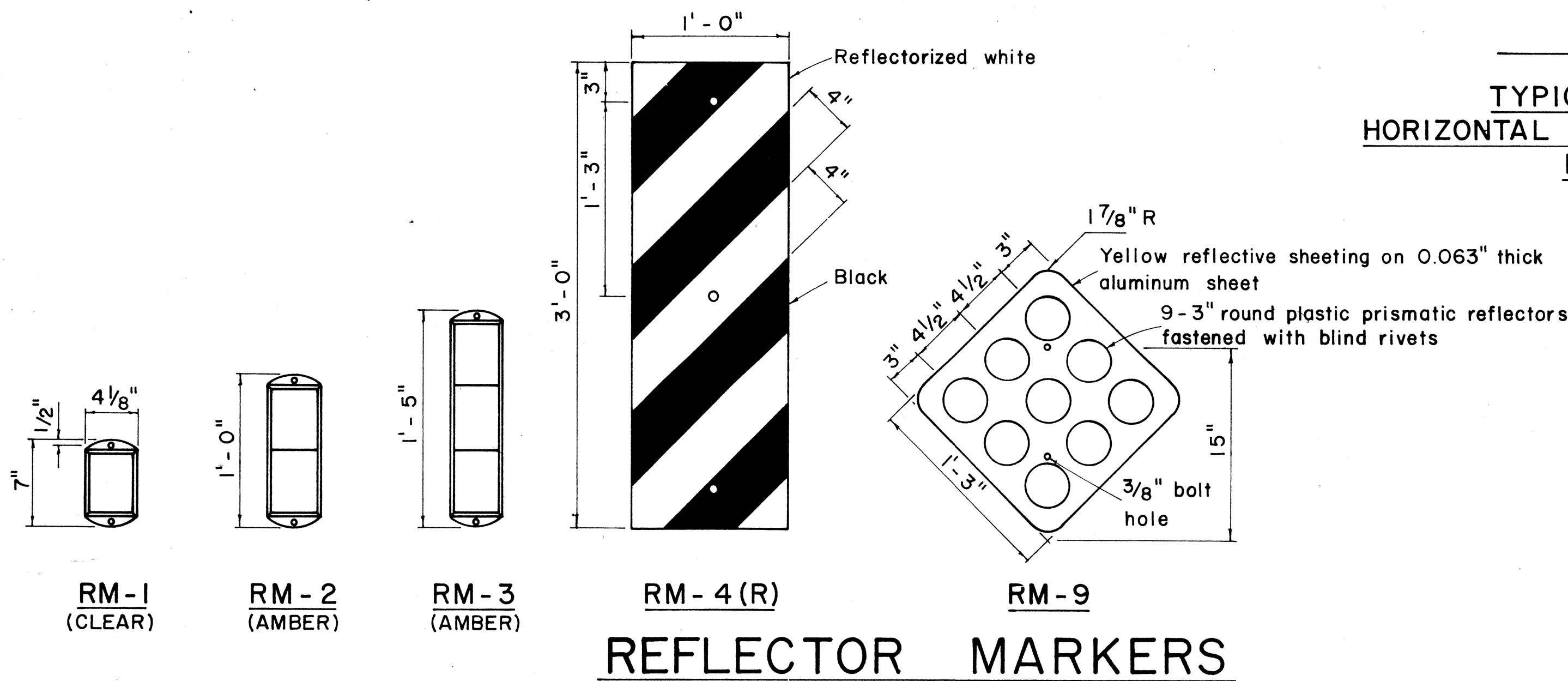
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
MISCELLANEOUS SIGN DETAILS

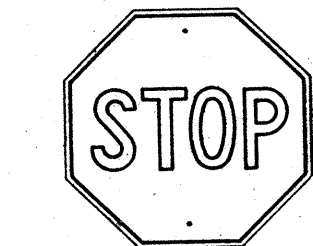
Not to scale March, 1968

SHEET No. 2 OF 3 SHEETS DT 100

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



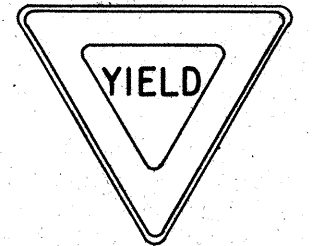
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72C-02-73 Phase I	1974	45-1	8



R1-1 30" x 30"
R1-1-A 36" x 36"

4-WAY

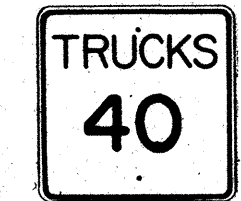
R1-3 12" x 6"
R1-3-A 18" x 9"



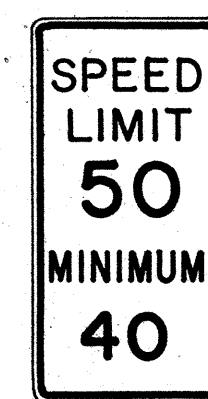
R1-2 36" x 36" x 36"
R1-2-A 48" x 48" x 48"



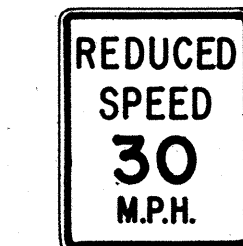
R2-1(50) 24" x 30"
R2-1(50)-A 48" x 60"



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



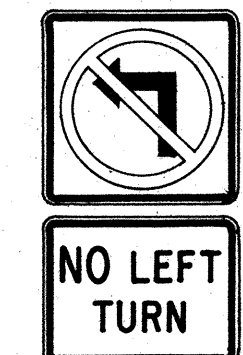
R2-4a(50/40) 24" x 48"
R2-4a(50/40)-A 48" x 96"



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



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



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



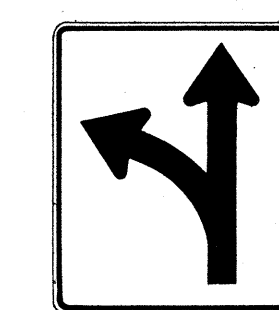
R3-3 24" x 24"
R3-3-A 48" x 48"



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



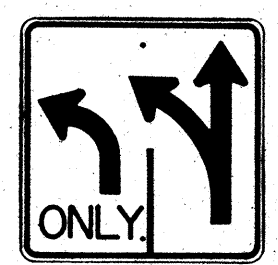
R3-5(L) 30" x 36"
R3-5(L)-A 48" x 60"



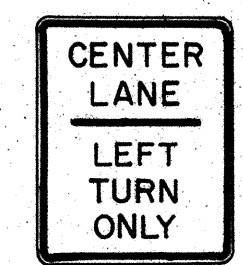
R3-6(L) 30" x 36"
R3-6(L)-A 48" x 60"



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



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



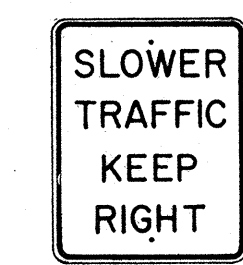
R3-9 24" x 30"



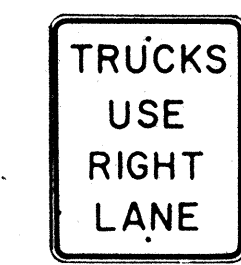
R4-1 24" x 30"



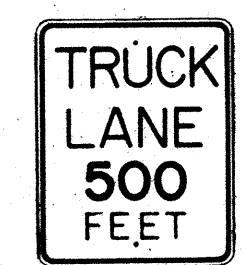
R4-2 24" x 30"



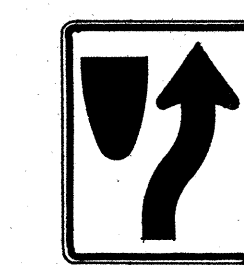
R4-3 24" x 30"
R4-3-A 48" x 60"



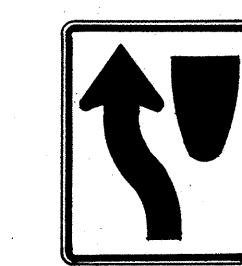
R4-5 24" x 30"



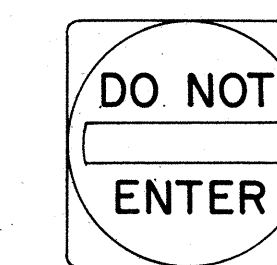
R4-6(500) 24" x 30"



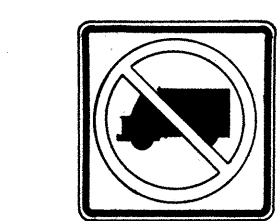
R4-7 24" x 30"
24" x 18"



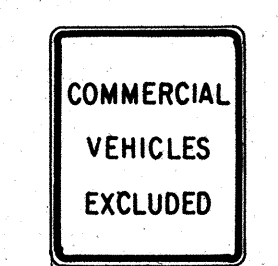
R4-8 24" x 30"
24" x 18"



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



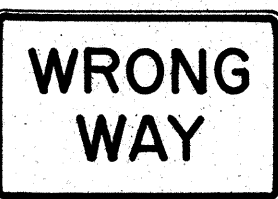
R5-2 24" x 24"
24" x 18"



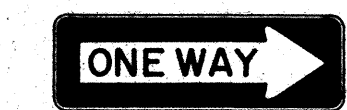
R5-4 24" x 30"



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



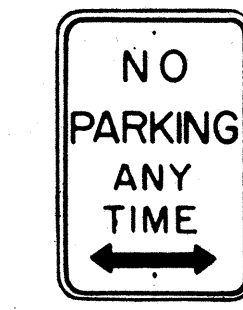
R5-9 36" x 24"



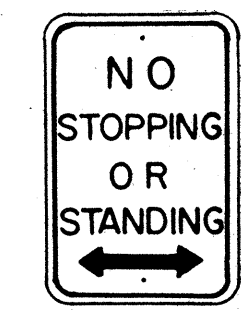
R6-1(R) 36" x 12"



R6-2(R) 18" x 24"



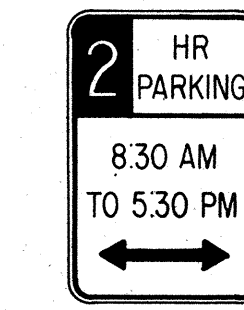
R7-1 12" x 18"
R7-1-A 24" x 30"



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



R7-107(R) 12" x 18"



R7-108 12" x 18"



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



R8-1 24" x 30"



R8-2 24" x 30"



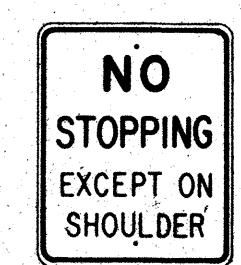
R8-3 24" x 30"



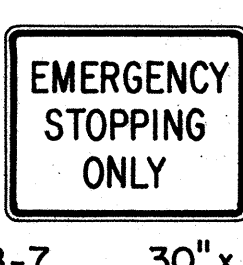
R8-4 30" x 24"
R8-4-A 48" x 36"



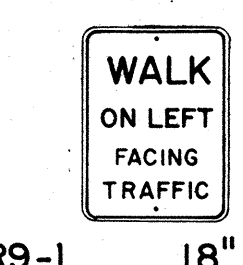
R8-5 24" x 30"



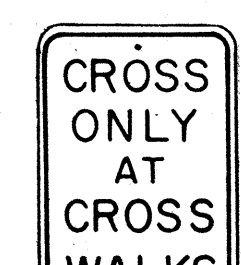
R8-6 24" x 30"



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



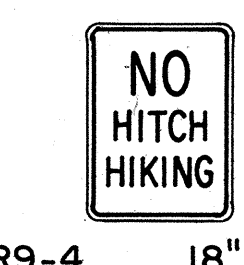
R9-1 18" x 24"



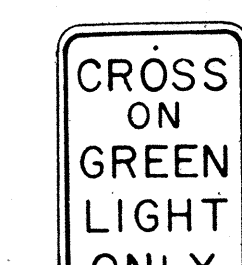
R9-2 12" x 18"



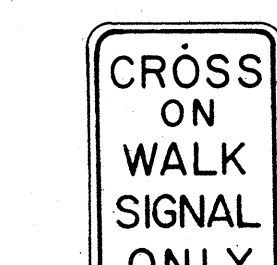
R9-3 12" x 18"



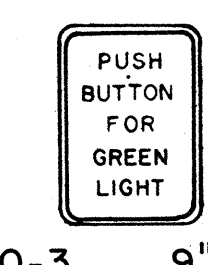
R9-4 18" x 24"



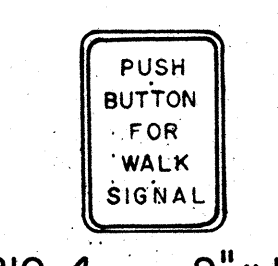
R10-1 12" x 18"



R10-2 12" x 18"



R10-3 9" x 12"



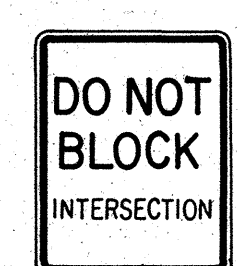
R10-4 9" x 12"



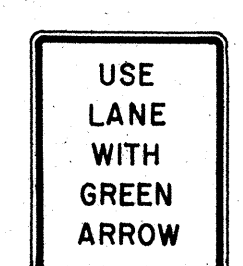
R10-5 24" x 30"



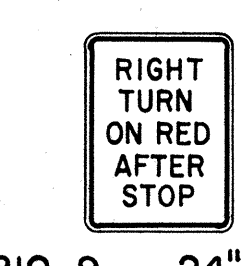
R10-6 24" x 36"



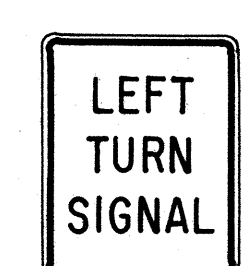
R10-7 24" x 30"



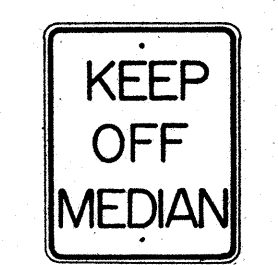
R10-8 24" x 30"



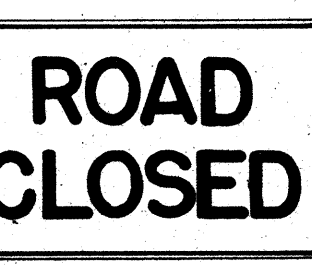
R10-9 24" x 30"



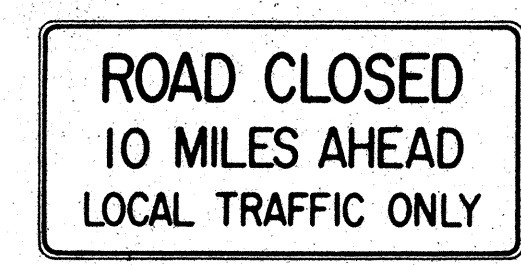
R10-10 24" x 30"



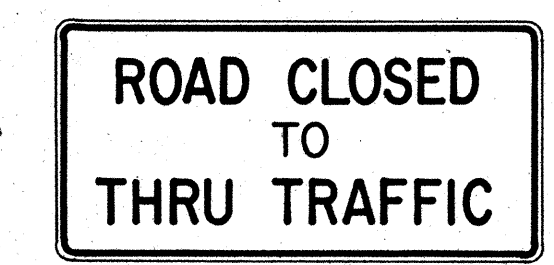
R11-1 24" x 30"



R11-2 48" x 30"



R11-3(10) 60" x 30"



R11-4 60" x 30"



R12-1(10) 24" x 30"

GENERAL NOTES

- Sign details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, and "Standard Highway Signs."
- 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 *Enishi Tanaka* 3/17/72
DATE

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

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS
REGULATORY SIGNS

NOT TO SCALE

SHEET No.2A OF 3 SHEETS DT 101

8/2/74	Details of Regulatory Sign R7-1
DATE	REVISION

SURVEY PLOTTED BY _____ DATE _____

DRAWN BY _____

TRACED BY _____

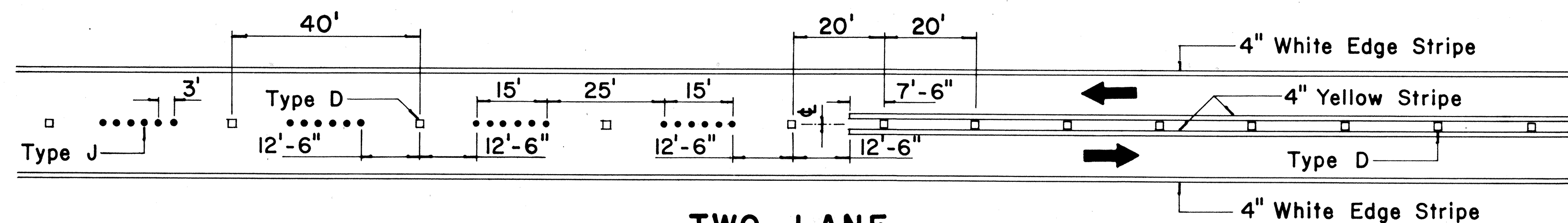
DESIGNED BY _____

CHECKED BY _____

NOTE BOOK No. _____

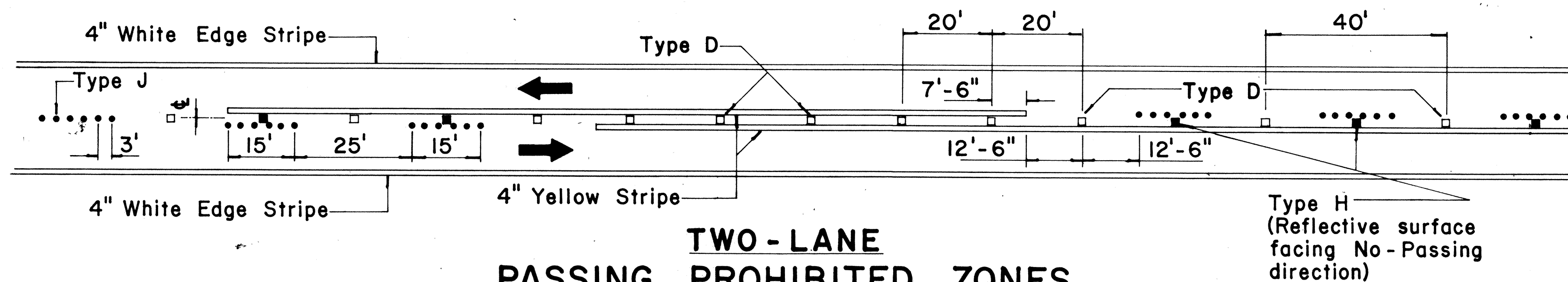
ORIGINAL PLAN _____

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	72C-02-73 Phase I	1974	5	8



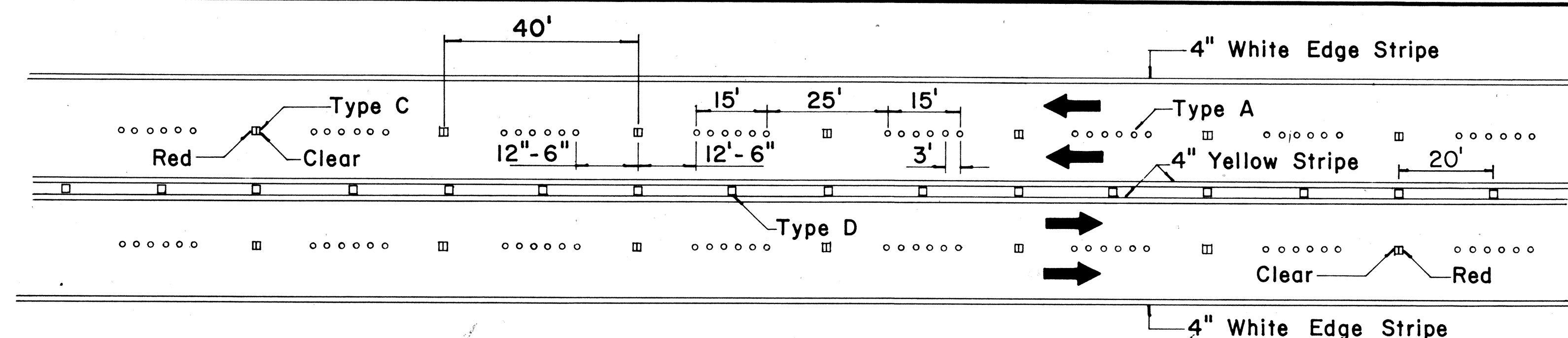
**TWO-LANE
PASSING PERMITTED AND PASSING PROHIBITED**

TWO - LANE

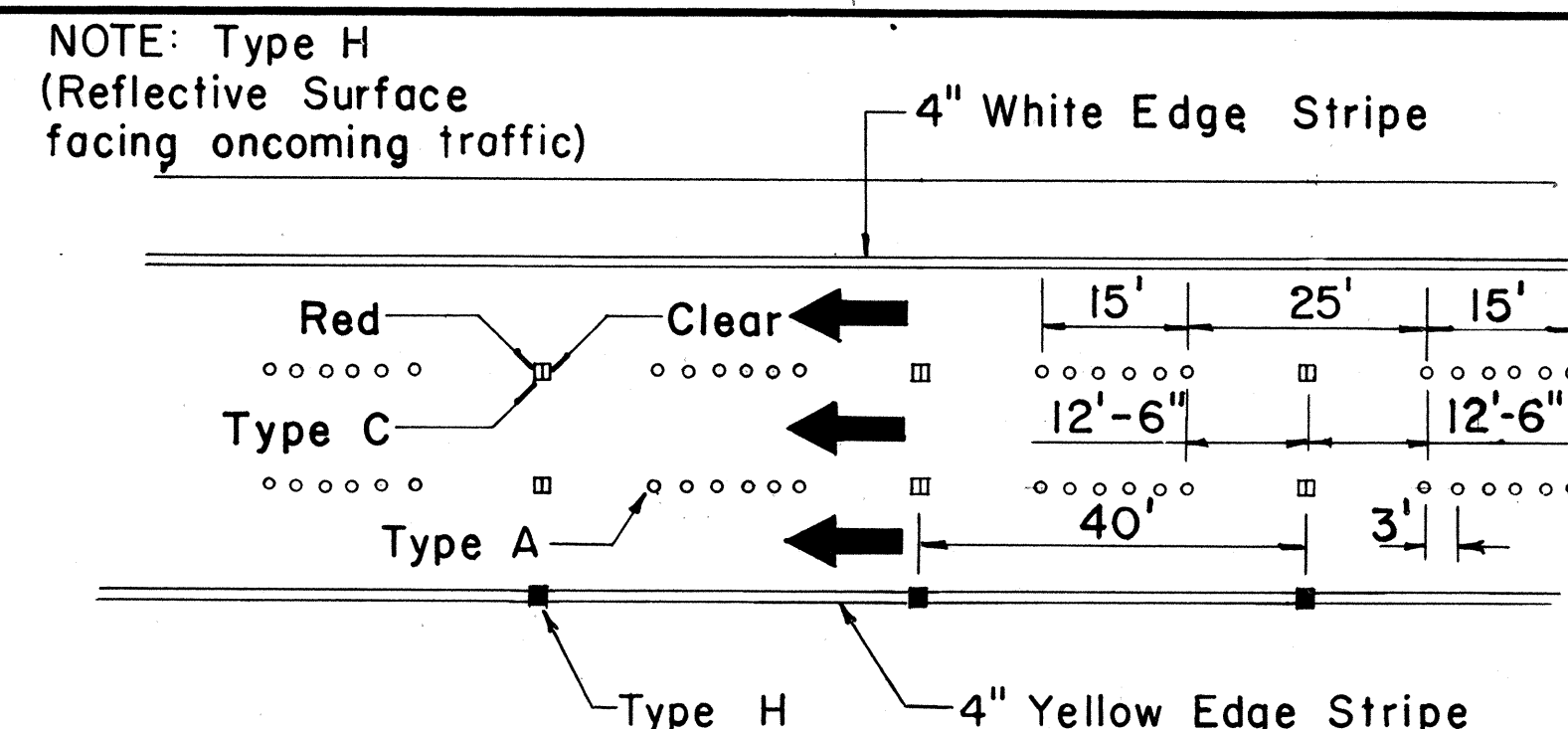


**TWO-LANE
PASSING PROHIBITED ZONES**

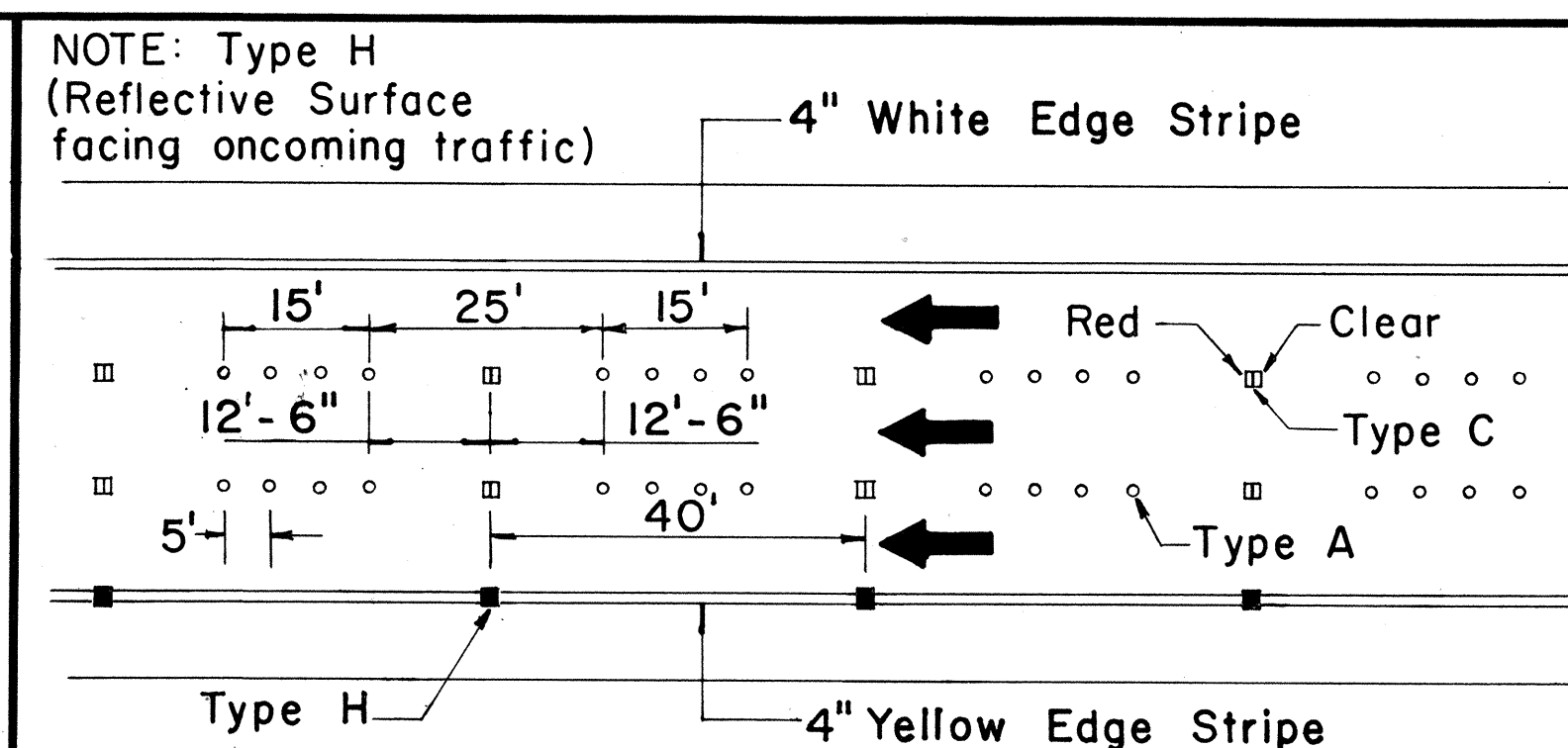
MULTI - LANE



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

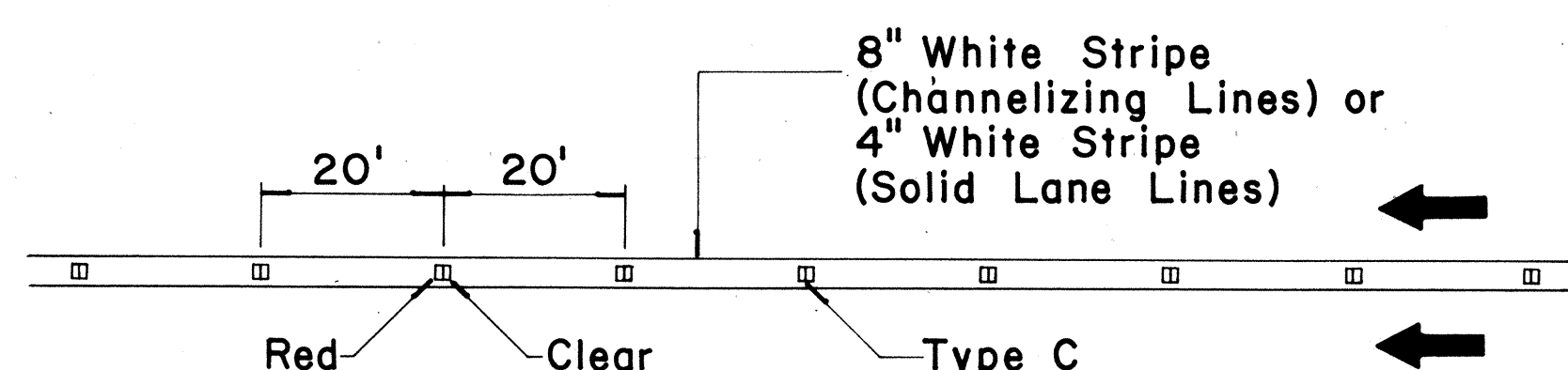


DIVIDED HIGHWAY LANE LINES

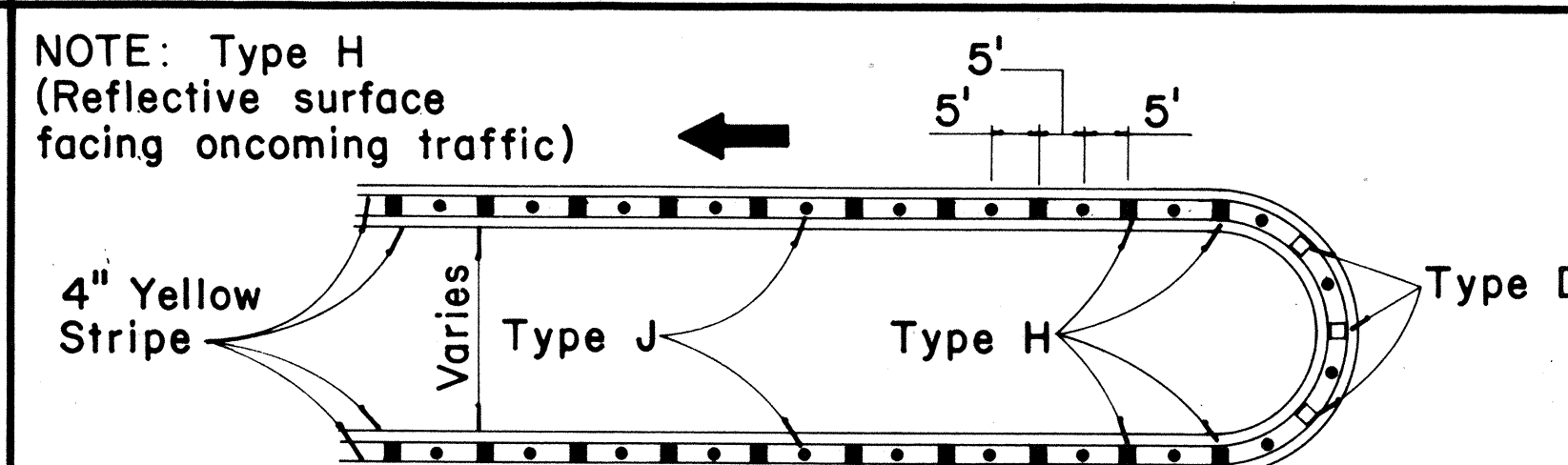


FREEWAY LANE LINES

**DIVIDED HIGHWAY
AND
FREEWAY**

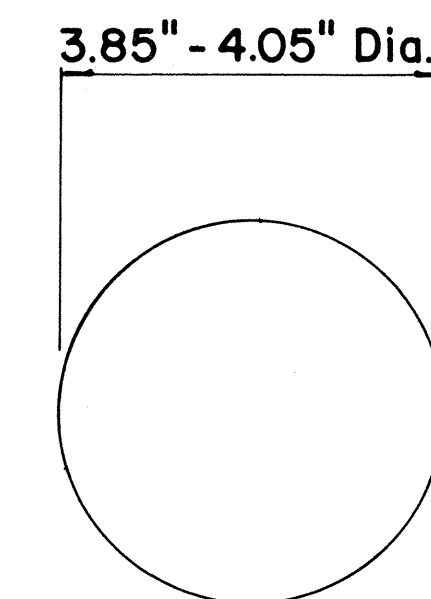


**CHANNELIZING LINES
OR SOLID LANE LINES**

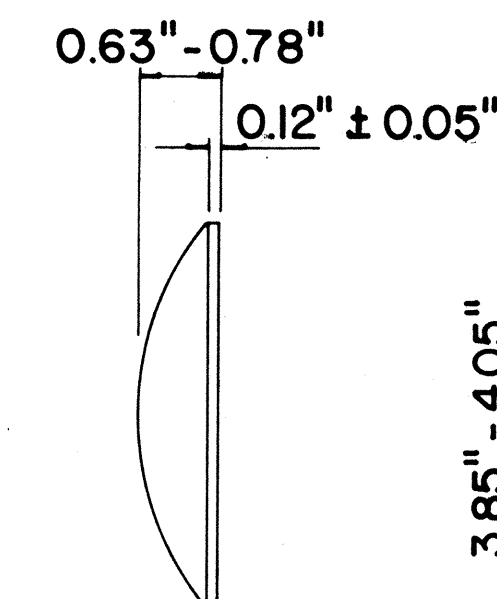


MEDIAN NOSE DELINEATION

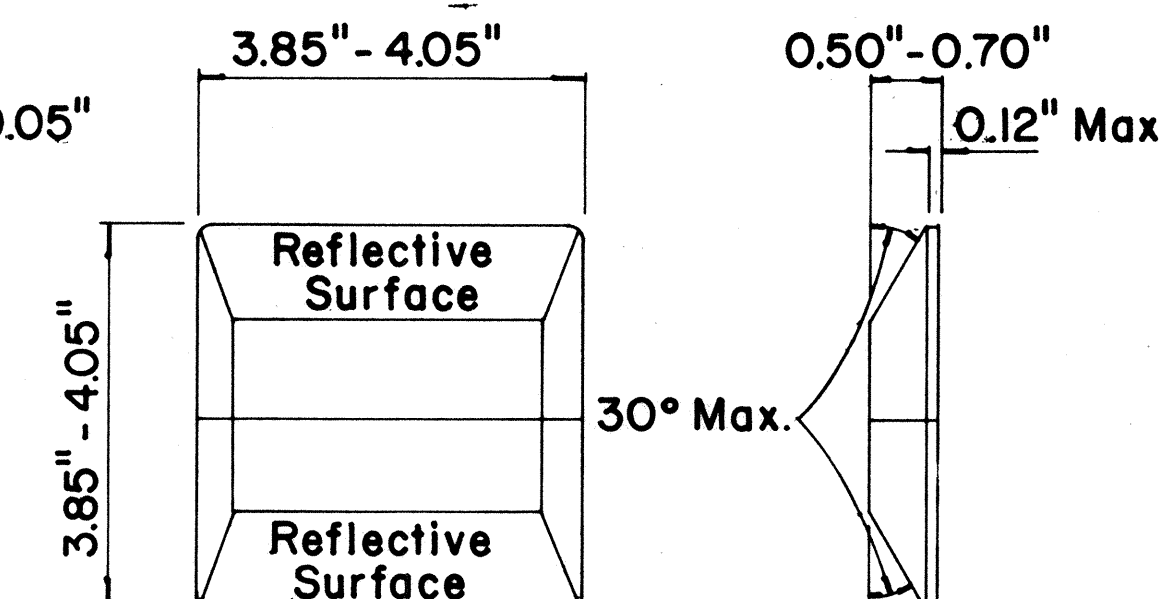
MISCELLANEOUS



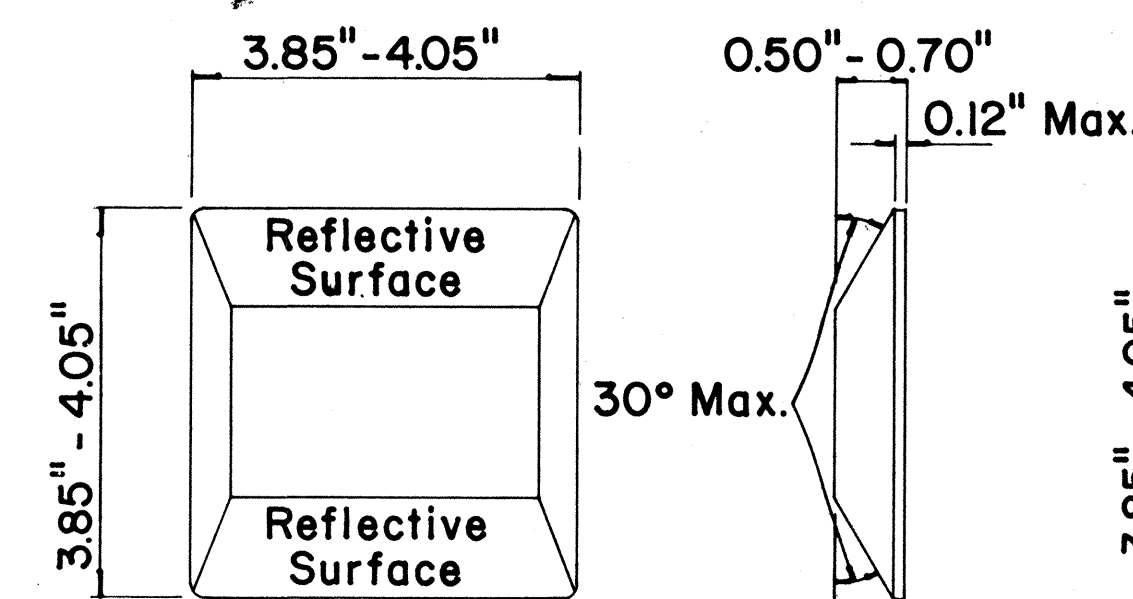
**TYPE A
NON-REFLECTIVE WHITE MARKER**



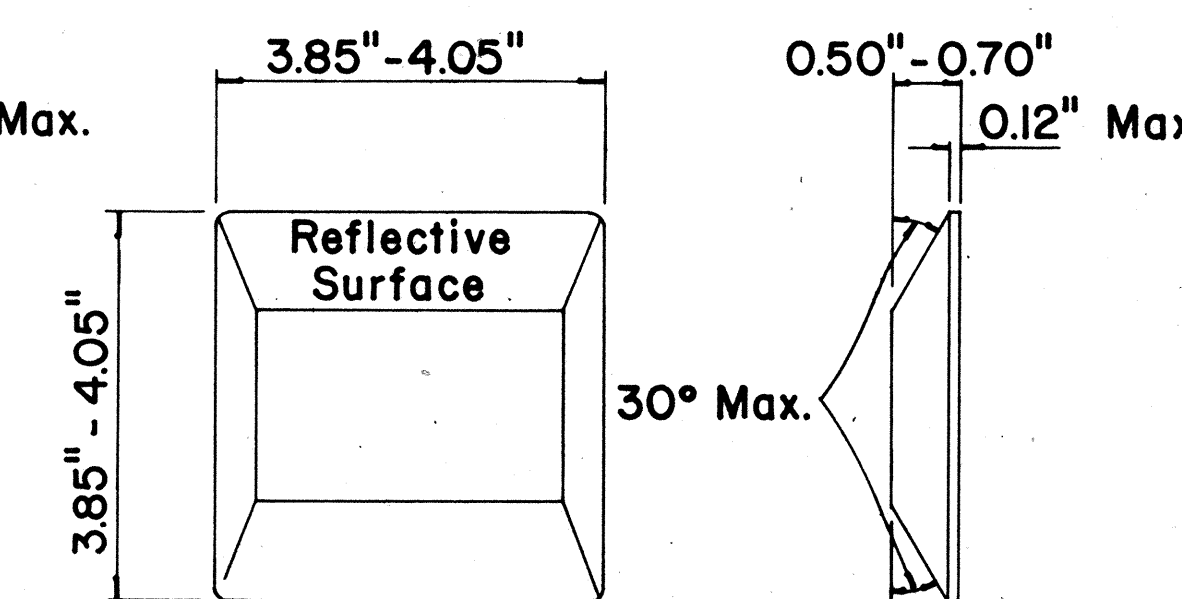
**TYPE J
NON-REFLECTIVE YELLOW MARKER**



**TYPE C
RED-CLEAR REFLECTIVE MARKER**



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



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

GENERAL NOTES

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

LEGEND

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

APPROVAL RECOMMENDED:
E. A. Tanaka
TRAFFIC ENGINEER
11/18/71
DATE

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

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

**STANDARD DETAILS
RAISED PAVEMENT MARKERS**

Not to Scale
October 1971

SHEET No. 3 OF 3 SHEETS DT 300