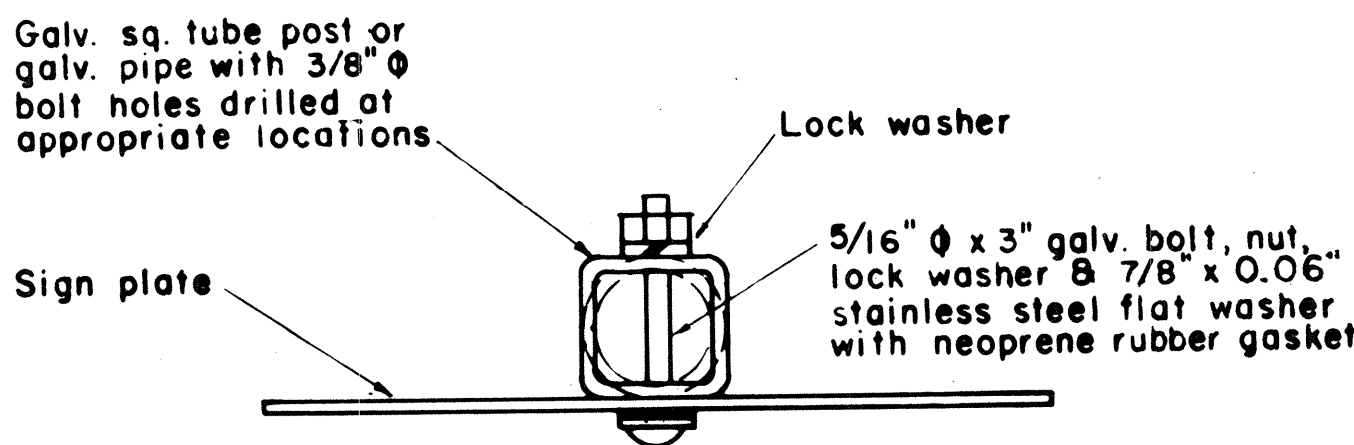
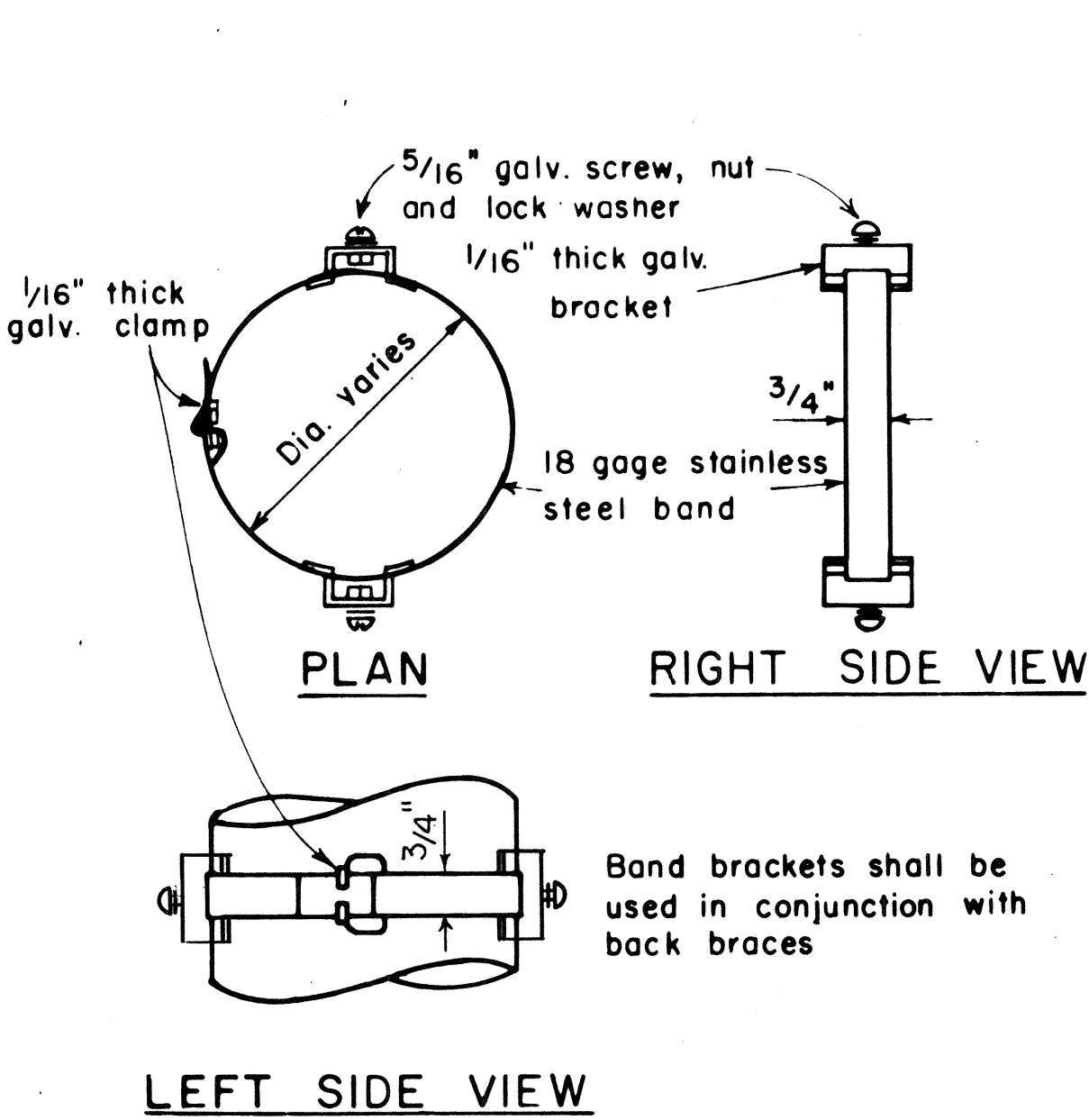
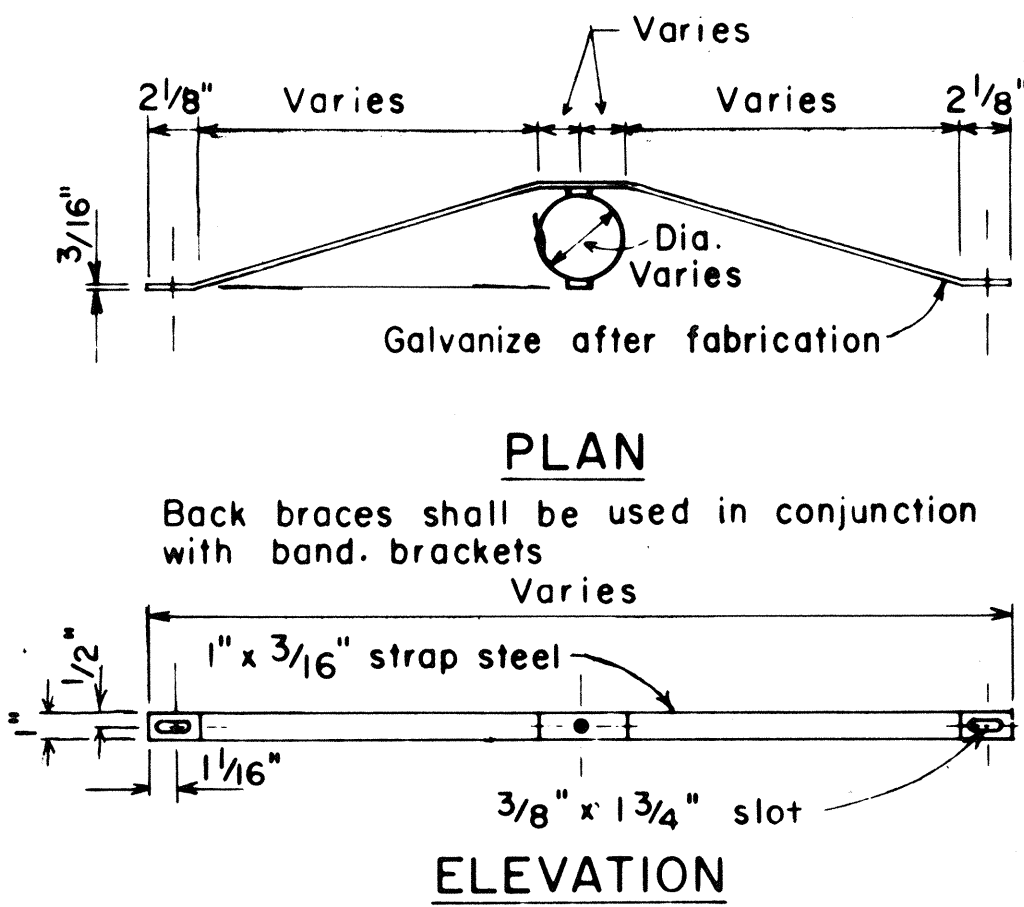


FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	324-01-83M	1983	5	11

GENERAL NOTES

- Signs shall be placed in conformance with positions shown and described in the "Manual on Uniform Traffic Control Devices for Streets and Highways", 1978, Part II, Section 2A-21, as amended, and as supplemented herein.
- Signs 48" and wider or larger than 10 sq. ft. in area shall be mounted on two sign posts except as noted below.
- Signs 48" and wider or larger than 10 sq. ft. in area may be mounted on other than two sign posts (i.e. on highway lighting poles)
  - Signs larger than 10 sq. ft. and less than 28 sq. ft. in area shall be mounted with a minimum of two sets of band brackets and back braces.
  - Signs larger than 28 sq. ft. in area shall be mounted with a minimum of three sets of band brackets and back braces.
- All parking restriction signs with arrows shall be mounted 45° to the line of traffic flow.
- Sign posts shall extend 3½" above each sign, where required, for attachment of City and County street name signs.
- (R) or (L) indicates right or left and shall be shown on the plans.
- See plans for special details.
- \*\* 8. The minimum lateral distances shown are guidelines and shall be exceeded whenever possible. The Contractor shall place signs at the maximum practical lateral distance from the edge of the traveled way up to 30 feet and shall utilize protected locations whenever possible. Final locations of all signs shall be approved by the Engineer.
- Signs in medians shall be placed at midpoint of median up to a maximum distance of 30 feet from the edge of traveled way. When appropriate, signs for opposing directions shall be placed back to back.

BACK BRACE DETAILS  
FOR BALANCED SIGN INSTALLATION



GALVANIZED SQUARE TUBE POST  
(OR GALVANIZED PIPE)

BAND BRACKET

TYPICAL MOUNTING DETAILS

NOT TO SCALE

NO.	REVISION	APPROVED BY	DATE
1	Supercedes Sht. DT -100 approved 12/30/69	H.T.	11/15/77
2	Revised depth of signpost	H.T.	5/8/79
3	Added Notes No. 8 & No. 9	H.T.	5/18/79
4	Revised Gen. Note #4 & Mounting Details	H.T.	4/23/80
5	Revised General Notes, Lateral Sign Locations and Mounting Details	H.T.	5/15/81

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

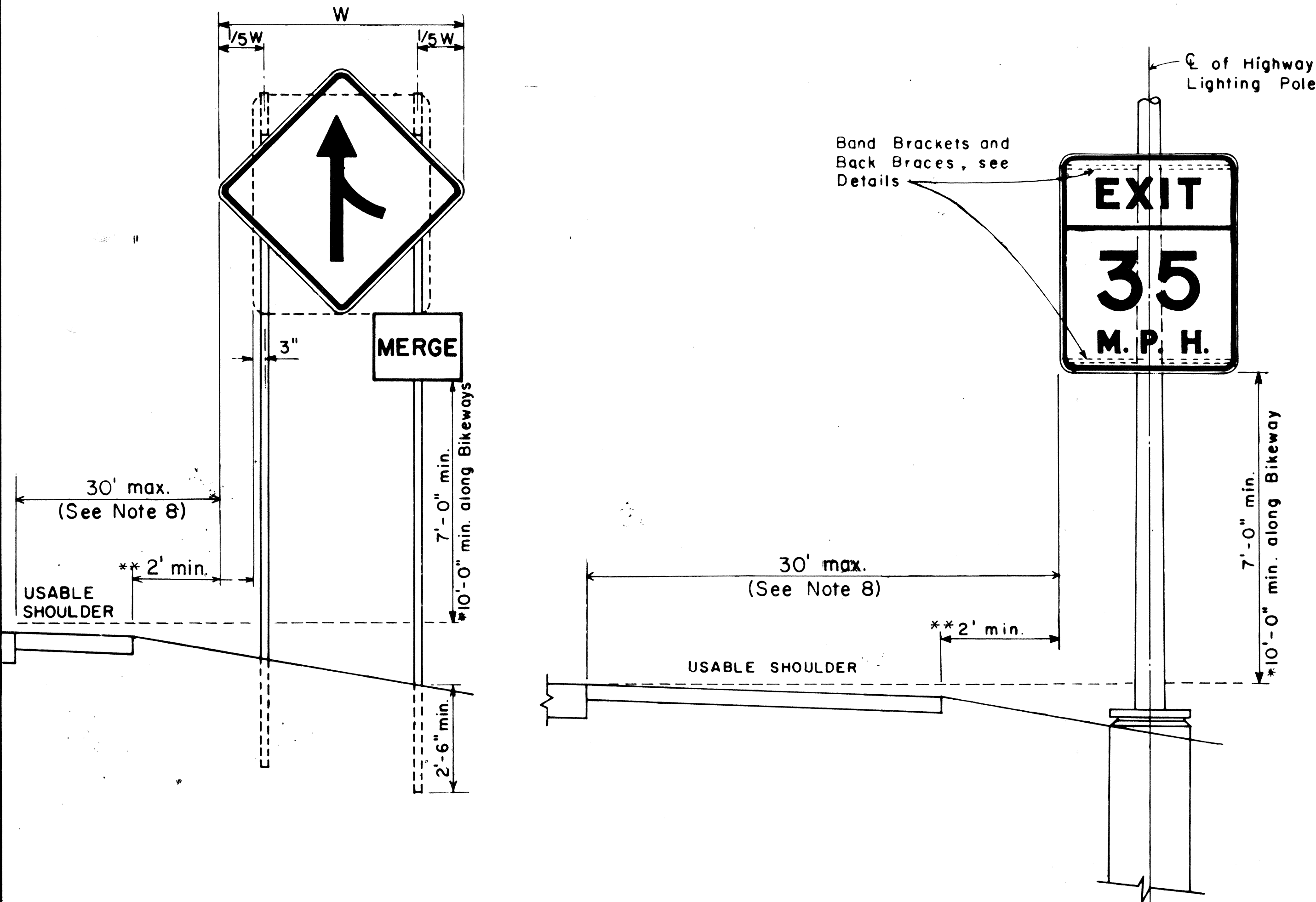
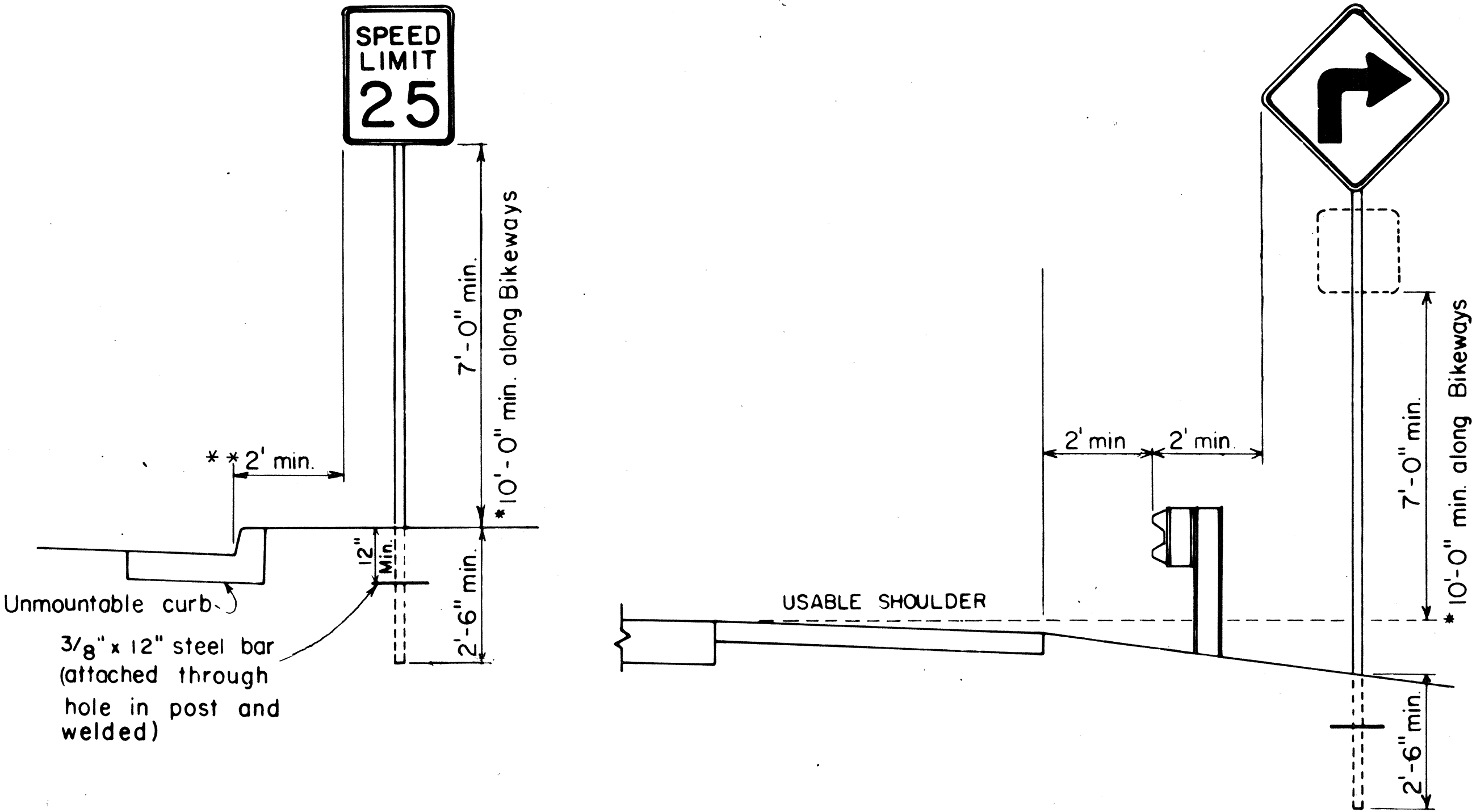
APPROVED:  
*Harbert S. Nakai* 11/15/77  
 ASSISTANT CHIEF, ENGINEERING DATE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

STANDARD DETAILS  
MISCELLANEOUS SIGN DETAILS

Not to scale  
June, 1977

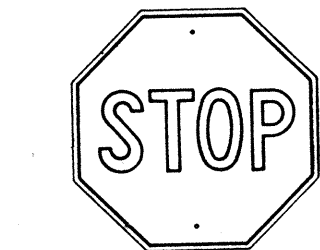
SHEET NO. OF SHEETS DT 100



HEIGHT AND LATERAL LOCATION OF SIGNS  
TYPICAL INSTALLATION

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

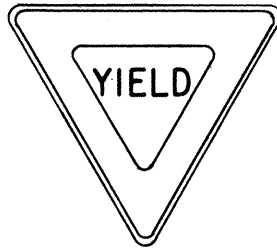
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	32A-01/83M	1983	6	11



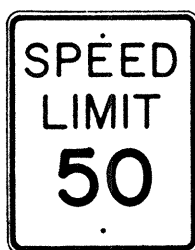
R1-1 30"x 30"  
R1-1-A 36"x 36"

4-WAY

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



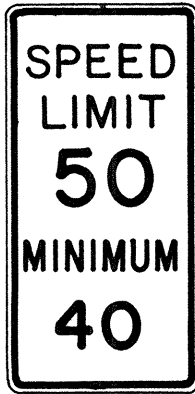
R1-2 36"x36"x36"  
R1-2-A 48"x48"x48"



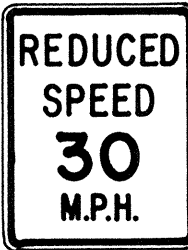
R2-1(50) 24"x 30"  
R2-1(50)-A 48"x 60"



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"

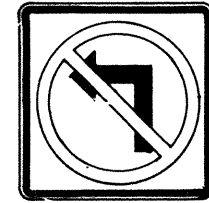


R2-5b(30) 24"x 30"  
R2-5b(30)-A 48"x 60"



NO RIGHT TURN

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



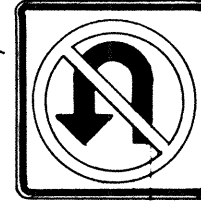
NO LEFT TURN

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



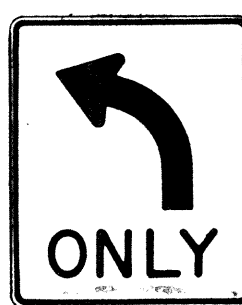
NO TURNS

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

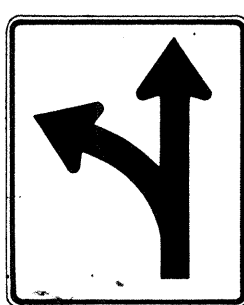


NO U TURN

R3-4 24"x 24"  
24"x18"  
R3-4-A 48"x48"  
48"x36"



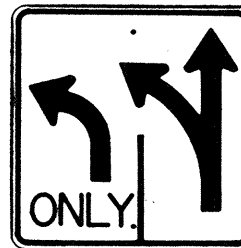
R3-5(L) 30"x 36"  
R3-5(L)-A 48"x 60"



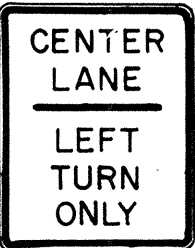
R3-6(L) 30"x 36"  
R3-6(L)-A 48"x 60"



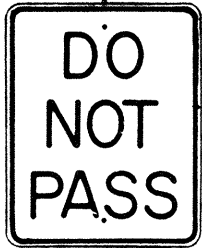
R3-7(R) 30"x30"  
R3-7(R)-A 48"x48"



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



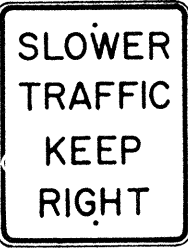
R3-9 24"x 30"



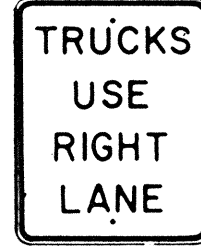
R4-1 24"x 30"



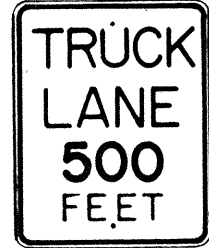
R4-2 24"x 30"



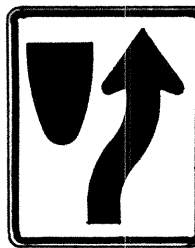
R4-3 24"x 30"  
R4-3-A 48"x 60"



R4-5 24"x 30"

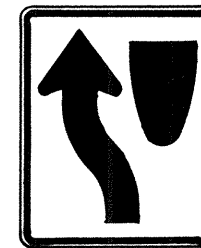


R4-6(500) 24"x 30"



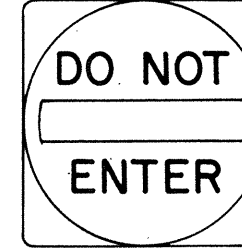
KEEP RIGHT

R4-7 24"x30"  
24"x18"

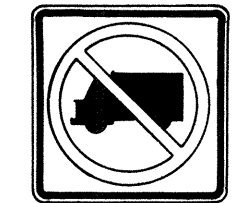


KEEP LEFT

R4-8 24"x30"  
24"x18"

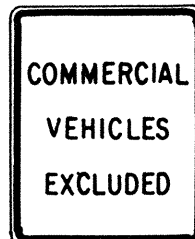


R5-1 30"x 30"  
R5-1-A 48"x 48"



NO TRUCKS

R5-2 24"x 24"  
24"x18"

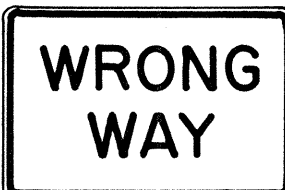


R5-4 24"x 30"



NO BICYCLES

R5-6 24"x24"  
24"x18"



R5-9 36"x 24"



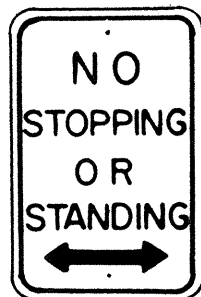
R6-1 (R) 36"x12"



R6-2(R) 18"x24"



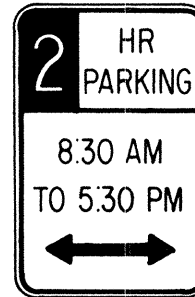
R7-1 12"x 18"  
R7-1-A 24"x 30"



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



R7-1,7(R) 12"x 18"



R7-108 12"x 18"



R7-201 12"x 6"  
R7-201-A 24"x12"



R8-1 24"x 30"



R8-2 24"x 30"



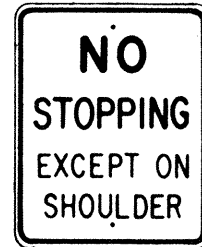
R8-3 24"x 30"



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"



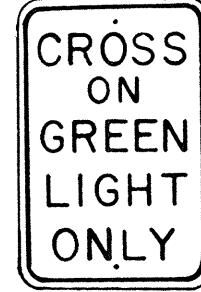
R9-2 12"x 18"



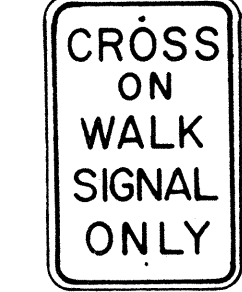
R9-3 12"x 18"



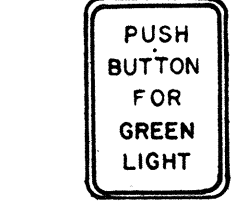
R9-4 18"x 24"



R10-1 12"x 18"



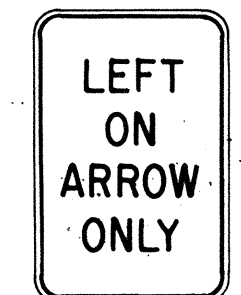
R10-2 12"x 18"



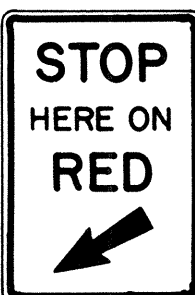
R10-3 9"x 12"



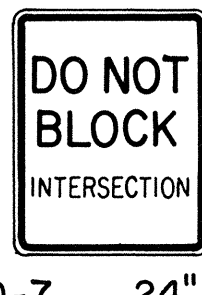
R10-4 9"x 12"



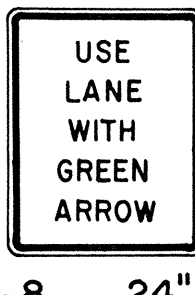
R10-5 24"x 30"



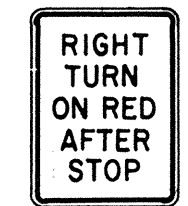
R10-6 24"x 36"



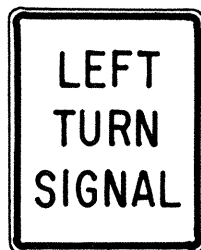
R10-7 24"x 30"



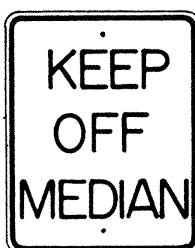
R10-8 24"x 30"



R10-9 24"x 30"



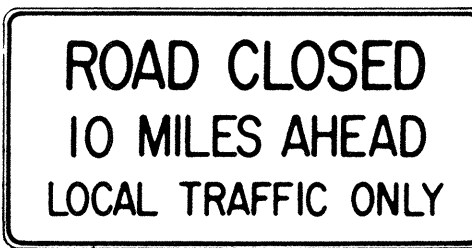
R10-10 24"x 30"



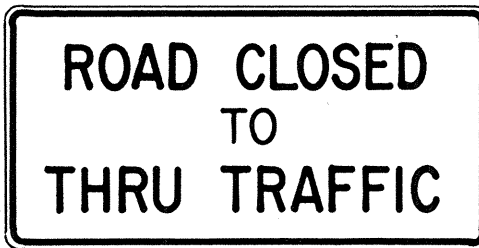
R11-1 24"x 30"



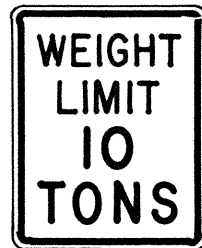
R11-2 48"x 30"



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

APPROVAL RECOMMENDED:  
TRAFFIC ENGINEER

3/11/72  
DATE

APPROVED:  
ASSISTANT CHIEF, ENGINEERING

3-20-72  
DATE

NO.	REVISION	APPROVED BY	DATE
1	Supersedes Sht. DT 101 Approved 12-30-69	H-1	3/20/72
2	Revised General Note 1.	H-1	10/10/74
3	Added General Note 5	H-1	6/7/75

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

### STANDARD DETAILS REGULATORY SIGNS

NOT TO SCALE

SHEET No. OF SHEETS DT 101

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



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	32A-0183M	1983	7	11



CW20-1a 48" x 48"



CW20-2d 48" x 48"



CW20-3b 48" x 48"



CW20-4d 48" x 48"



CW20-5d(L) 48" x 48"



CW20-7c 48" x 48"



CW21-1 30" x 30"



CW21-2 30" x 30"



CW21-3 36" x 36"



CW21-4 36" x 36"



CW21-5 30" x 30"



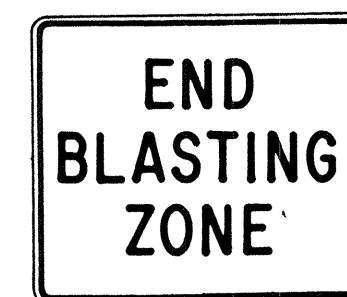
CW21-6 30" x 30"



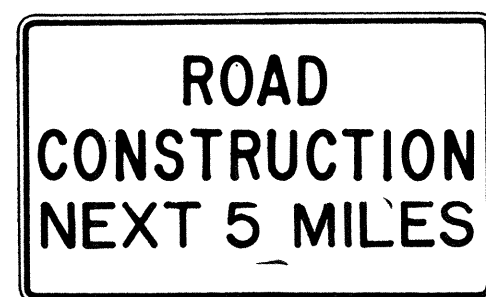
CW22-1b 48" x 48"



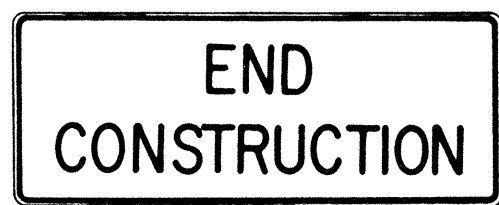
CW22-2 42" x 36"



CW22-3 42" x 36"



CG20-1(5) 60" x 36"



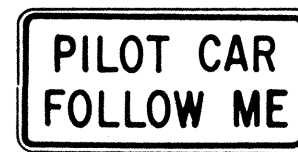
CG20-2 60" x 24"



CM4-9(R) 30" x 24"



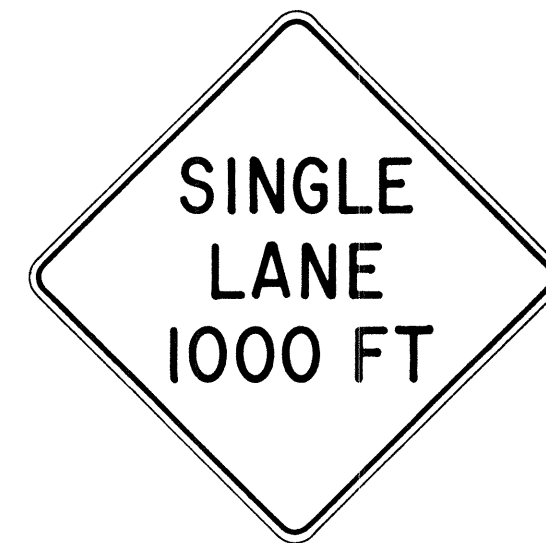
CM4-10(R) 48" x 18"



CG20-4 36" x 18"



CW23-1 36" x 36"



CW23-2b 48" x 48"



CW23-3(R) 48" x 48"

### 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 construction signs shall be reflectorized.
- All construction 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.
- 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
1	Supersedes Sht. DT 104 Approved 12-30-69	H.C.	3/23/72
2	Revised General Note 1	H.C.	10/16/74
3	Revised General Note 2	M.H.	9-16-75
4	Revised General Note 2 and sign CG20-1(5)	H.C.	9-14-76

APPROVAL RECOMMENDED:  
*Erich Tanaka* 3/21/72  
TRAFFIC ENGINEER DATE

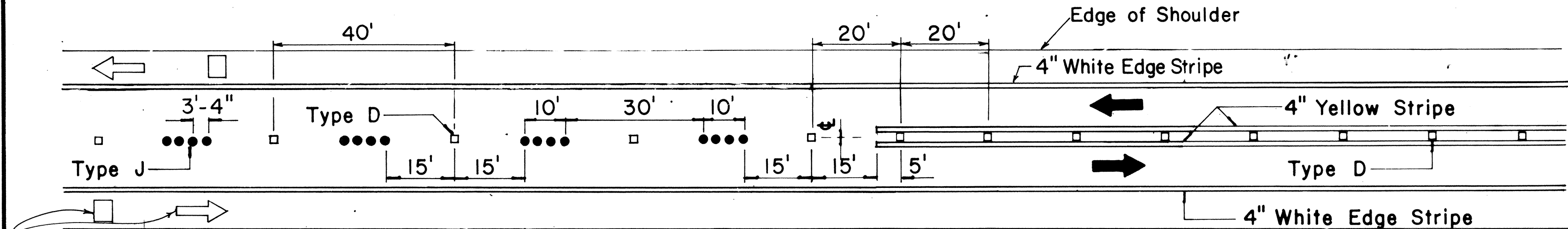
APPROVED:  
*Shirley Salsich* 3/23/72  
ASSISTANT CHIEF, ENGINEERING DATE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
  
STANDARD DETAILS  
CONSTRUCTION SIGNS

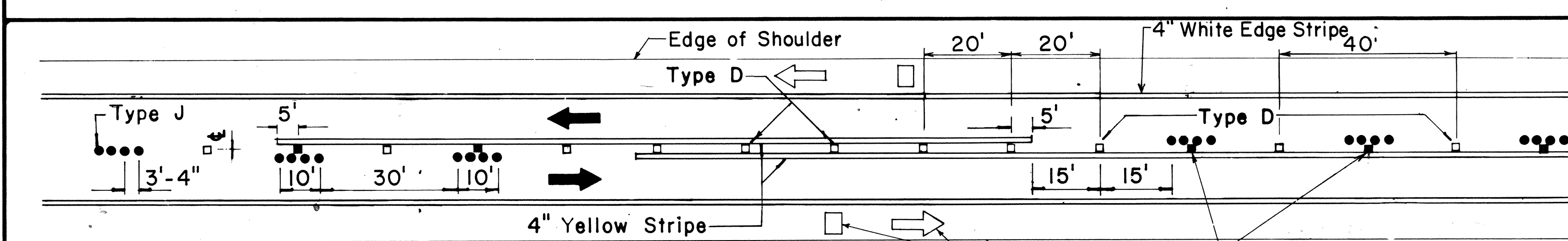
NOT TO SCALE

SHEET No. OF SHEETS DT 104

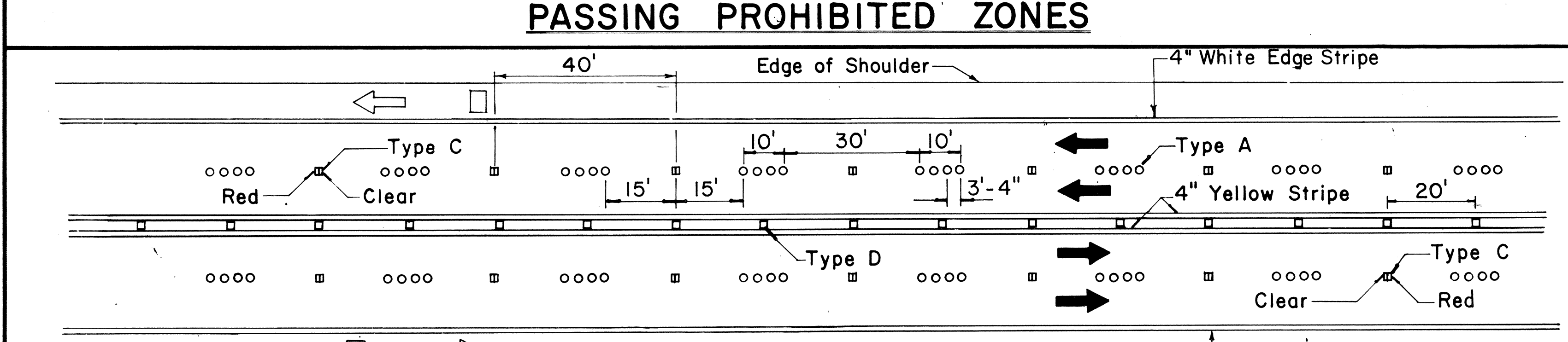
FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	32A-01-83M	1983	8	11



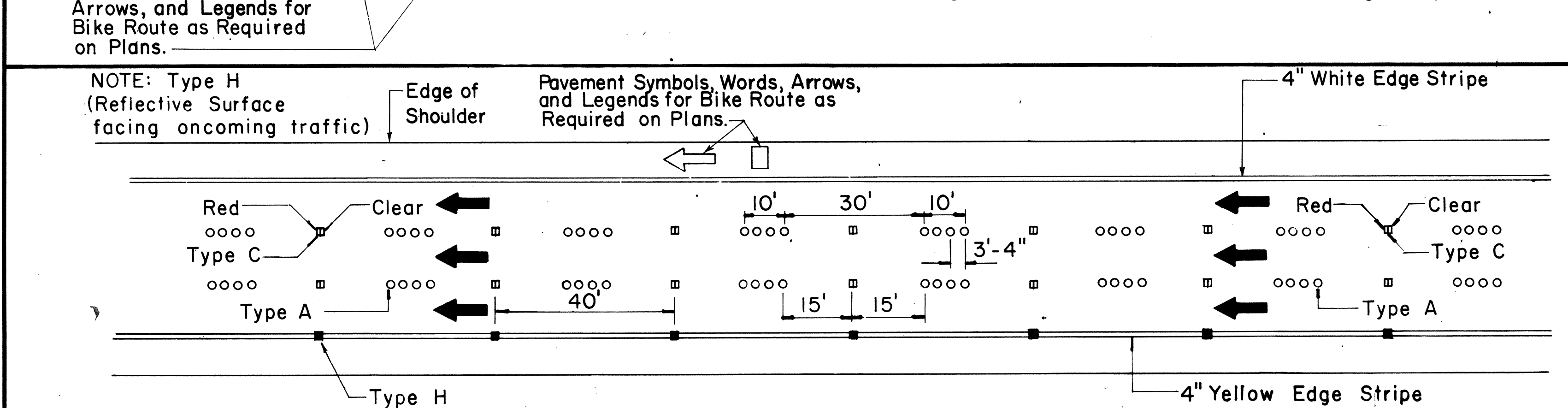
Pavement Symbols, Words, Arrows, and Legends for Bike Route as Required on Plans. **PASSING PERMITTED AND PASSING PROHIBITED**



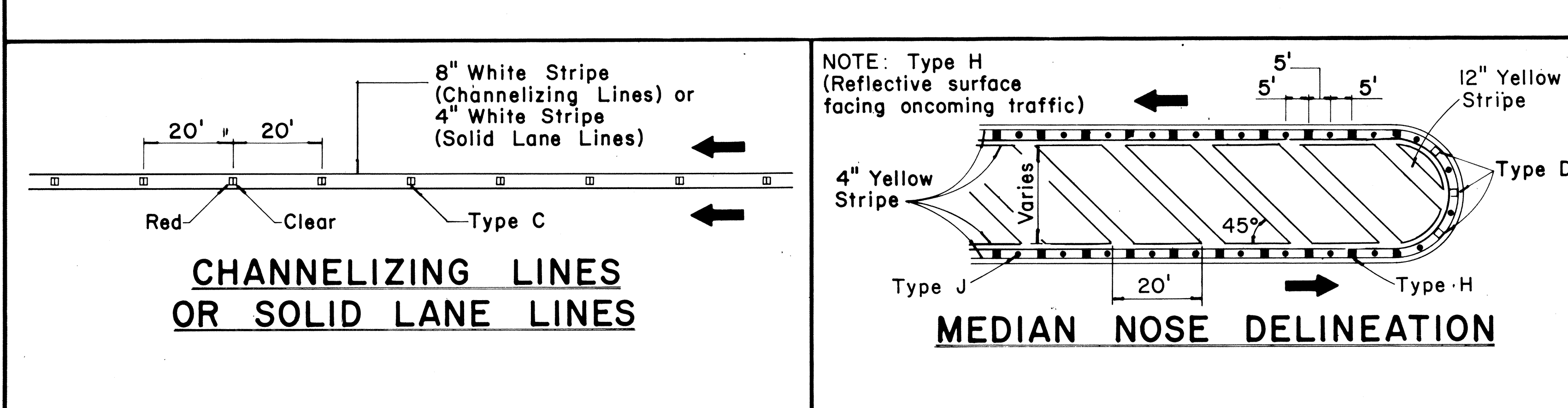
Pavement Symbols, Words, Arrows, and Legends for Bike Route as Required on Plans. **PASSING PROHIBITED ZONES**



Pavement Symbols, Words, Arrows, and Legends for Bike Route as Required on Plans. **EDGE OF SHOULDER**



NOTE: Type H (Reflective surface facing oncoming traffic) **EDGE OF SHOULDER**



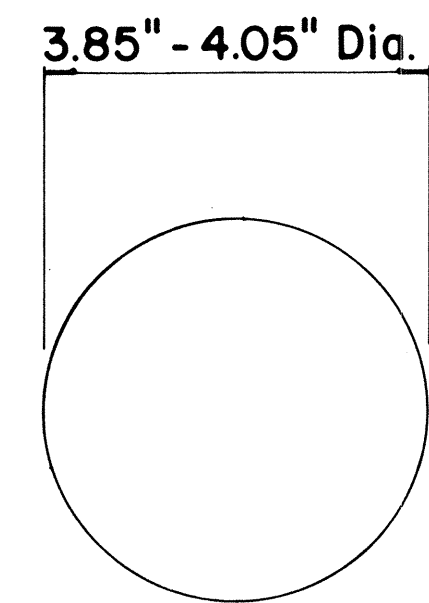
**CHANNELIZING LINES OR SOLID LANE LINES**

**TWO - LANE**

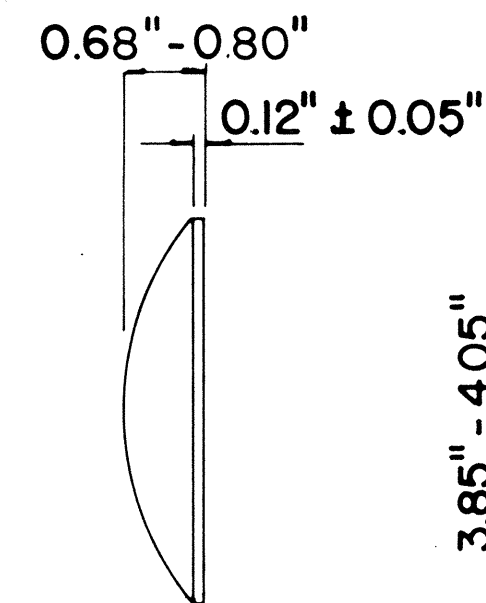
**MULTI - LANE**

**DIVIDED HIGHWAY AND FREEWAY**

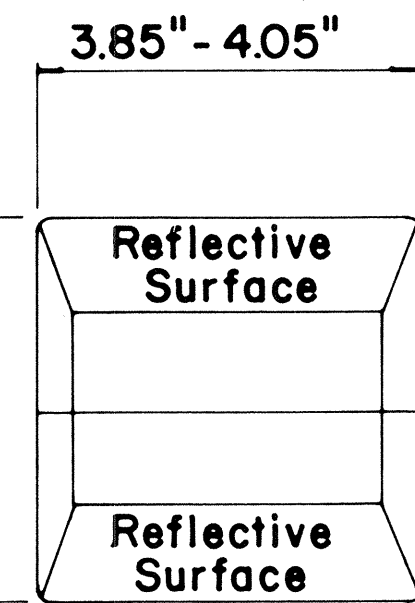
**MISCELLANEOUS**



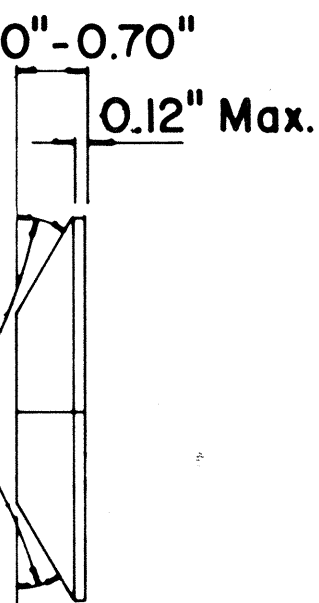
**TYPE A**  
NON-REFLECTIVE WHITE MARKER



**TYPE J**  
NON-REFLECTIVE YELLOW MARKER



**TYPE C**  
RED-CLEAR REFLECTIVE MARKER



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

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

**GENERAL NOTES**

- Pavement marking and striping shall conform to the latest "Manual on Uniform Traffic Control Devices for Streets and Highways," and as amended.
- 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*  
TRAFFIC ENGINEER

7/21/78  
DATE

APPROVED:

*Robert J. Zalewski*  
ASSISTANT CHIEF, ENGINEERING

7/24/78  
DATE

No.	REVISION	APPROVED BY	DATE
1	Supersedes DT 300 approved 11/18/71.	H.T.	7/24/78
2	Delete Type A Markers from Bike Route Delineation.	H.T.	10/15/79

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**STANDARD DETAILS**  
**RAISED PAVEMENT MARKERS AND STRIPING**

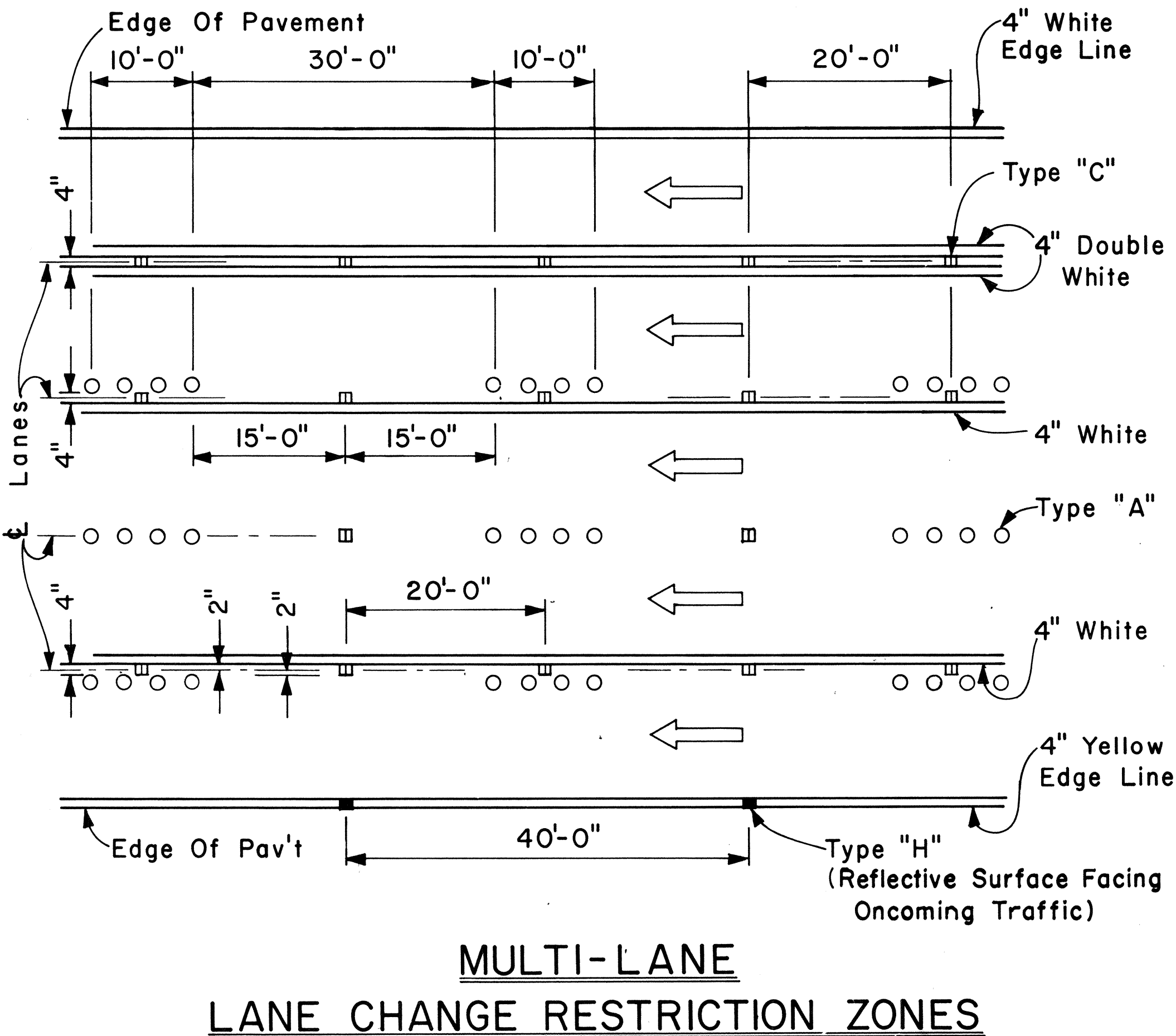
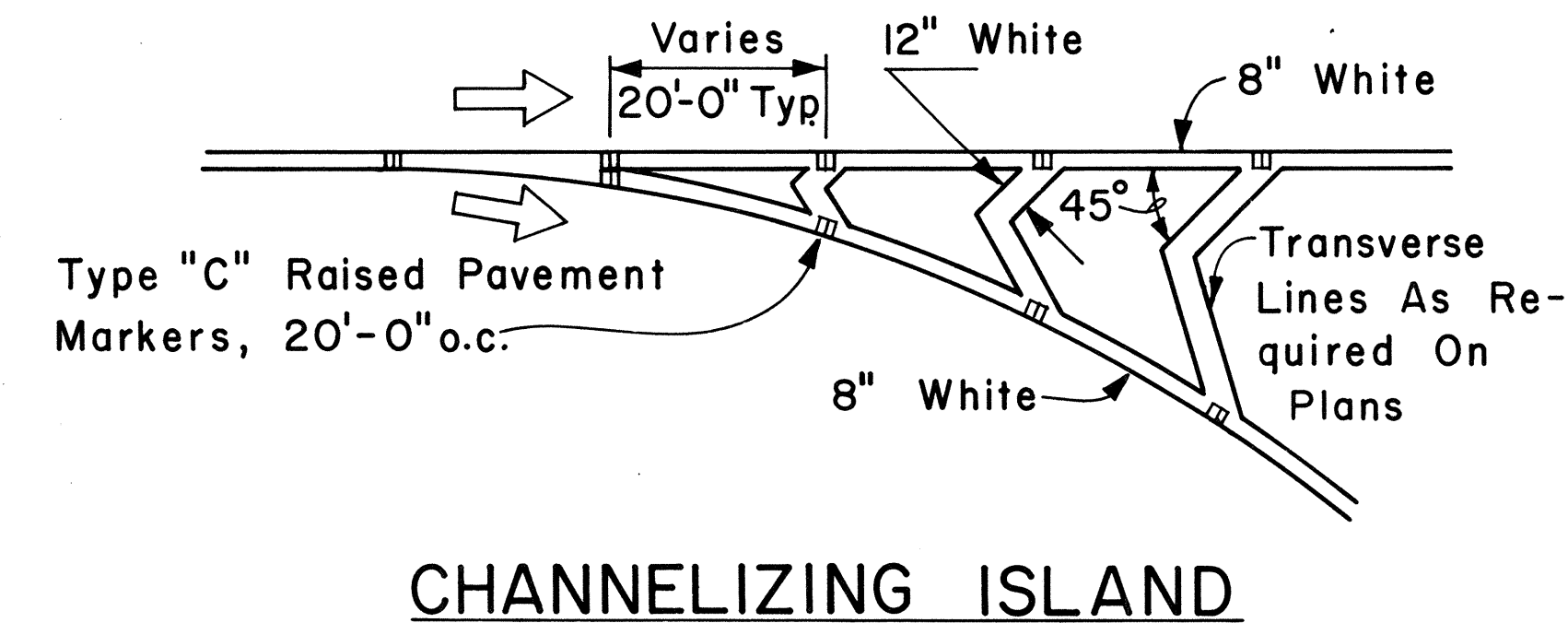
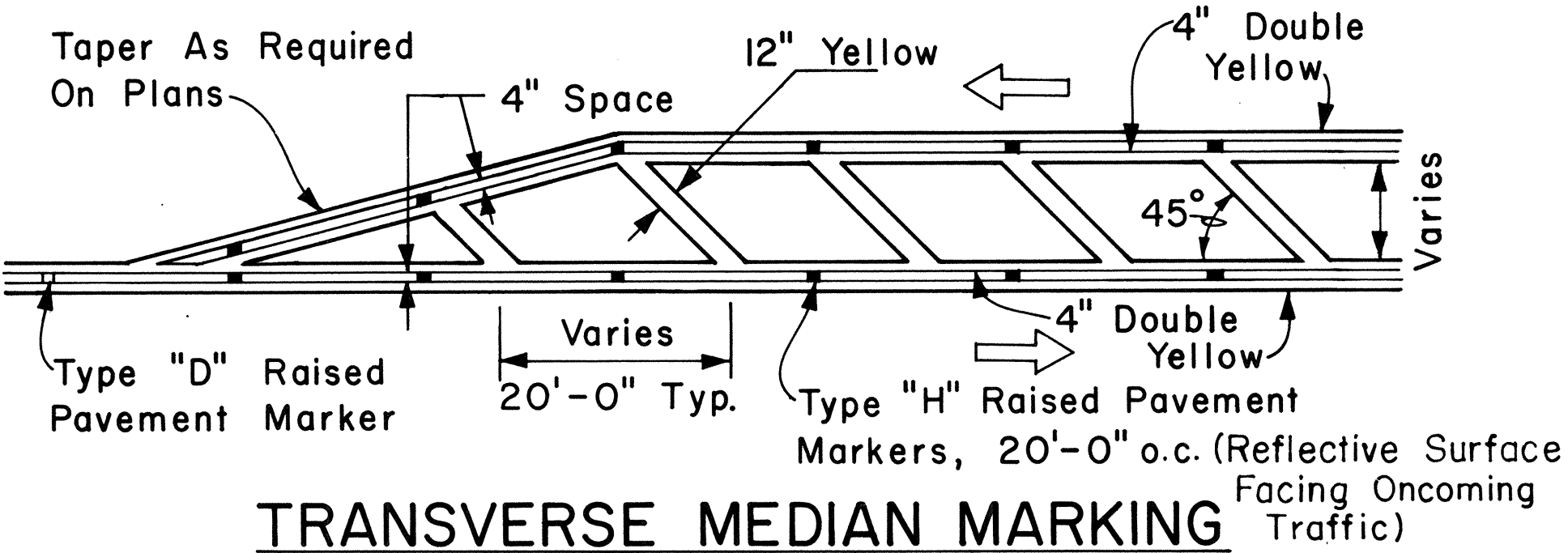
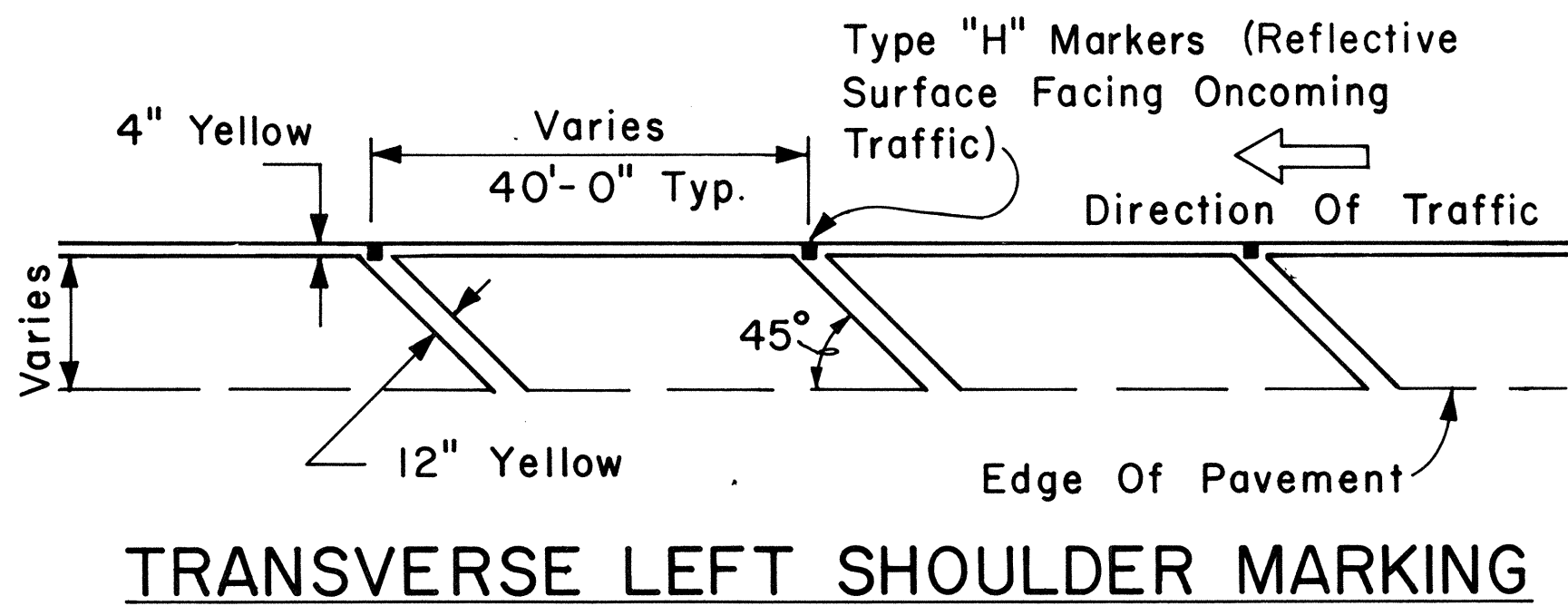
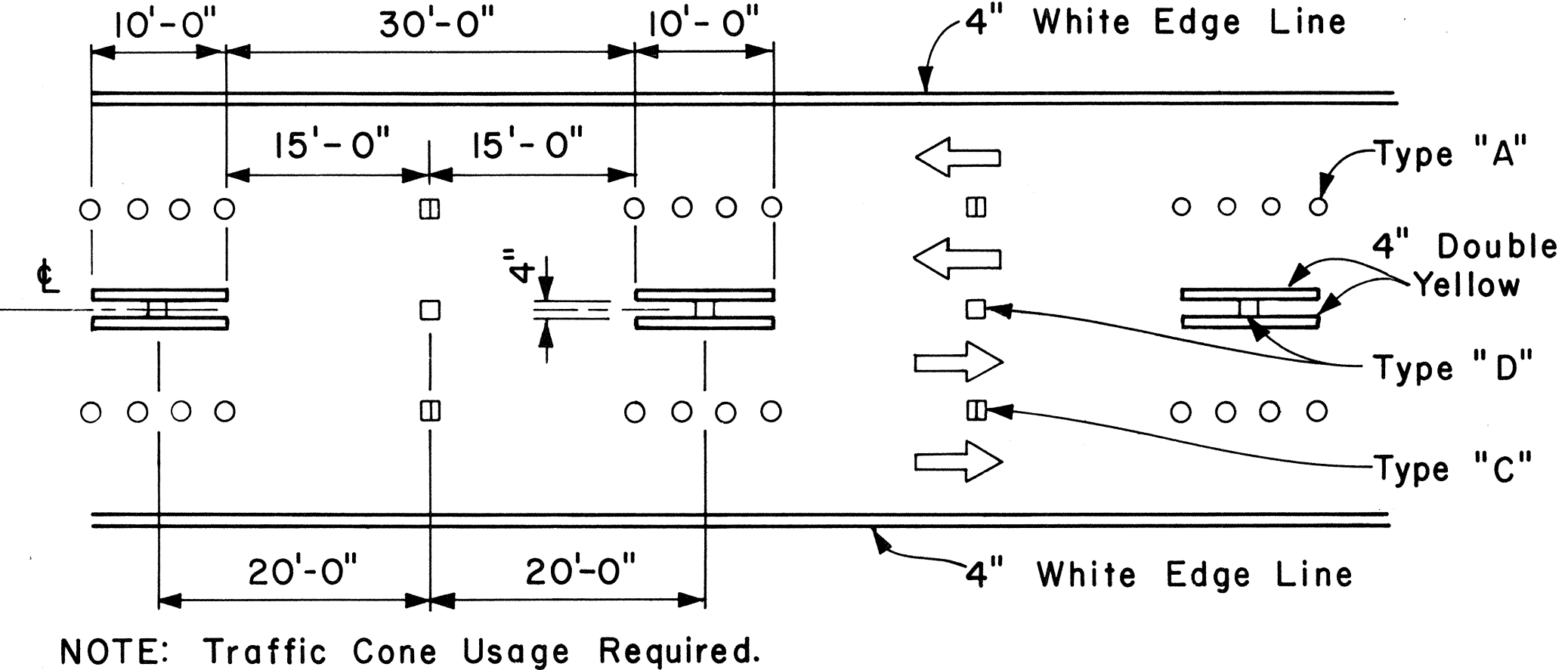
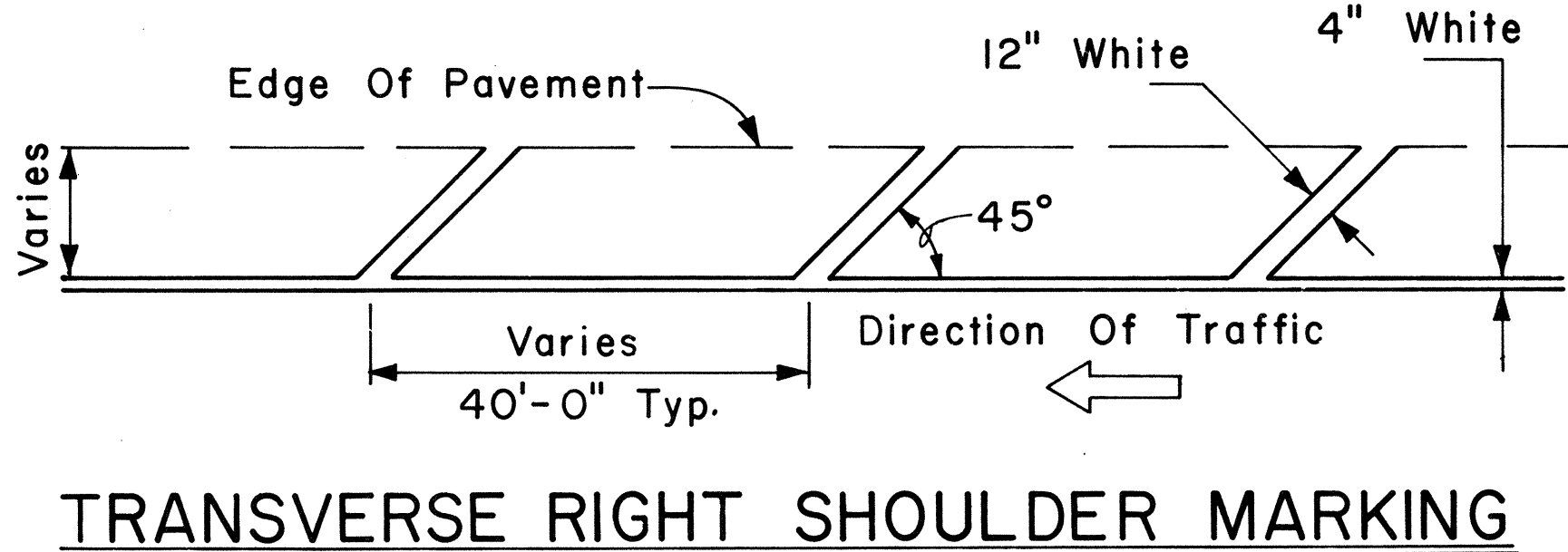
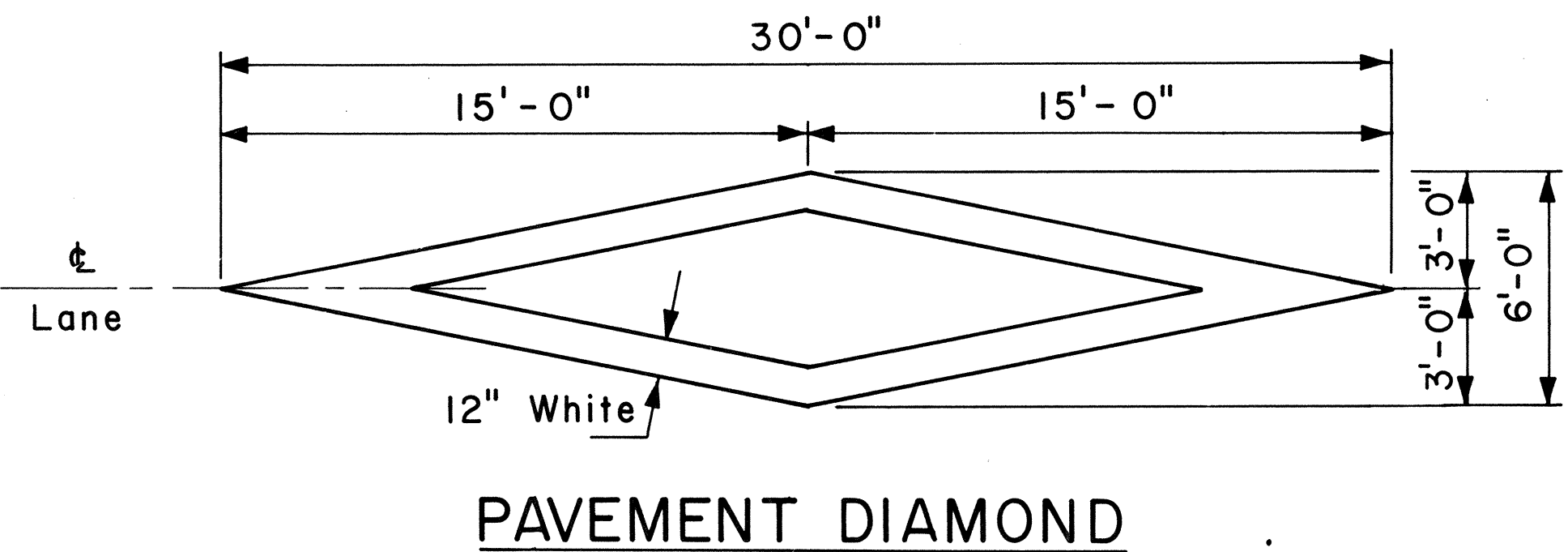
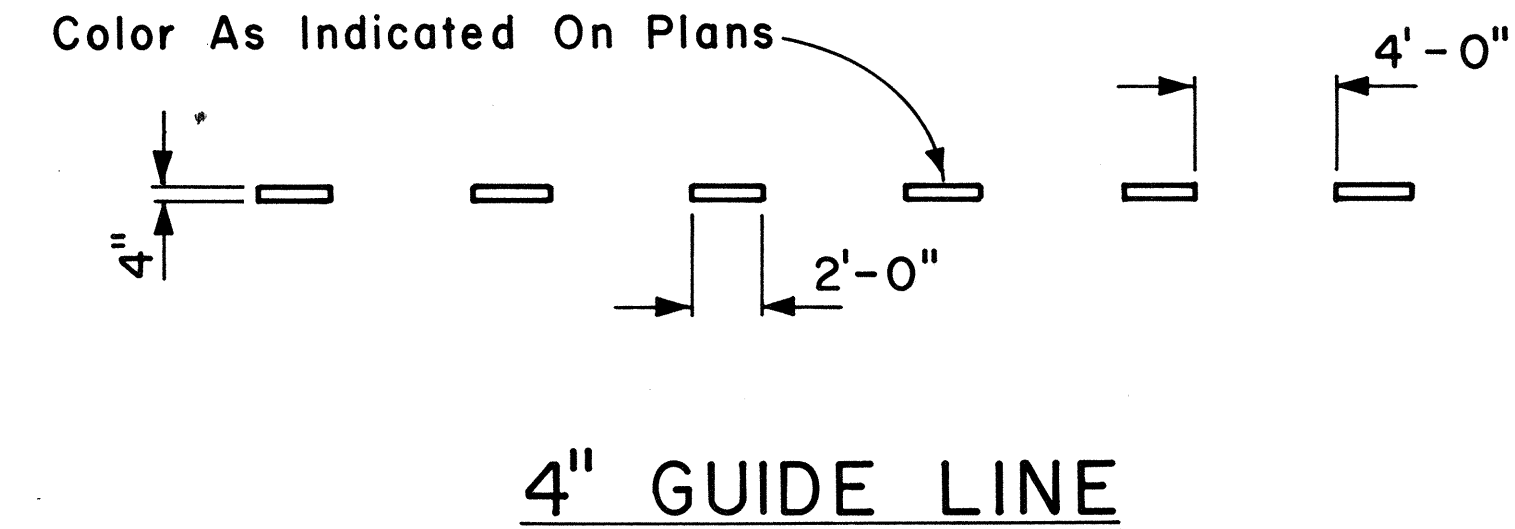
Not to Scale July 1978  
SHEET No. OF SHEETS DT 300



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	324-01-83M	1983	9	11

GENERAL NOTES:

1. Pavement marking and striping shall conform to the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways," by the FHWA, and as amended.
2. Layout of pavement markings and striping shall be done by the Contractor. The Contractor shall check layout of markings and striping with the Engineer prior to performing work.
3. For additional pavement marking details, see sheet DT 300.



APPROVAL RECOMMENDED: *Erich Tanaka* 5/2/78  
TRAFFIC ENGINEER DATE

APPROVED: *Harold S. Zafra* 5/3/78  
ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION  
STANDARD DETAILS  
MISCELLANEOUS  
PAVEMENT MARKINGS

Scale: Not to Scale Date: April, 1978  
SHEET NO. OF SHEETS DT 302

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	32A 0183M	1983	10	11

GENERAL NOTES:

- Pavement Markings and Striping shall conform to the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways," by the FHWA, and as amended.
- Layout of Pavement Markings and Striping shall be done by the Contractor. The Contractor shall check layout of markings and striping with the Engineer prior to performing work.
- For additional details, see sheet DT 300.

APPROVAL RECOMMENDED:  
*Erick Tanaka* 7/21/78  
 TRAFFIC ENGINEER DATE

APPROVED:  
*Robert D. Sakai* 7/24/78  
 ASSISTANT CHIEF, ENGINEERING DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS  
MISCELLANEOUS  
PAVEMENT MARKINGS

Not to Scale  
SHEET No. 10 OF 10 SHEETS DT 304

July 1978

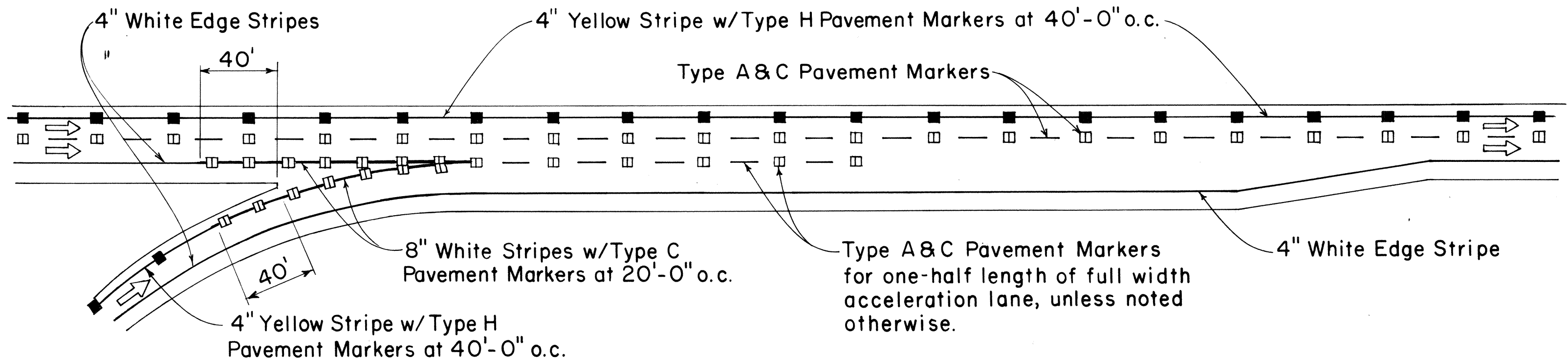
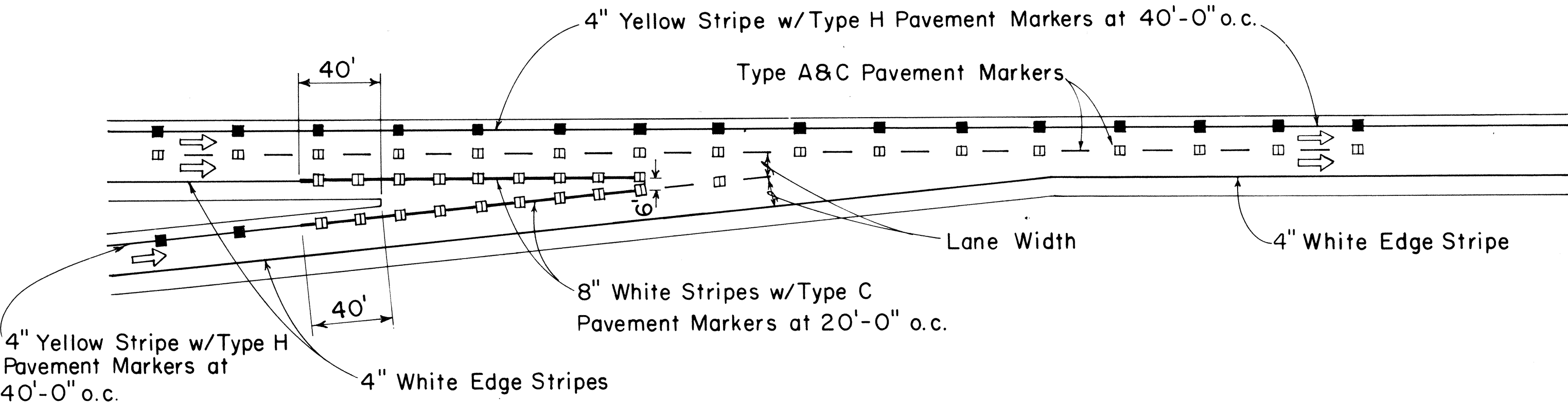
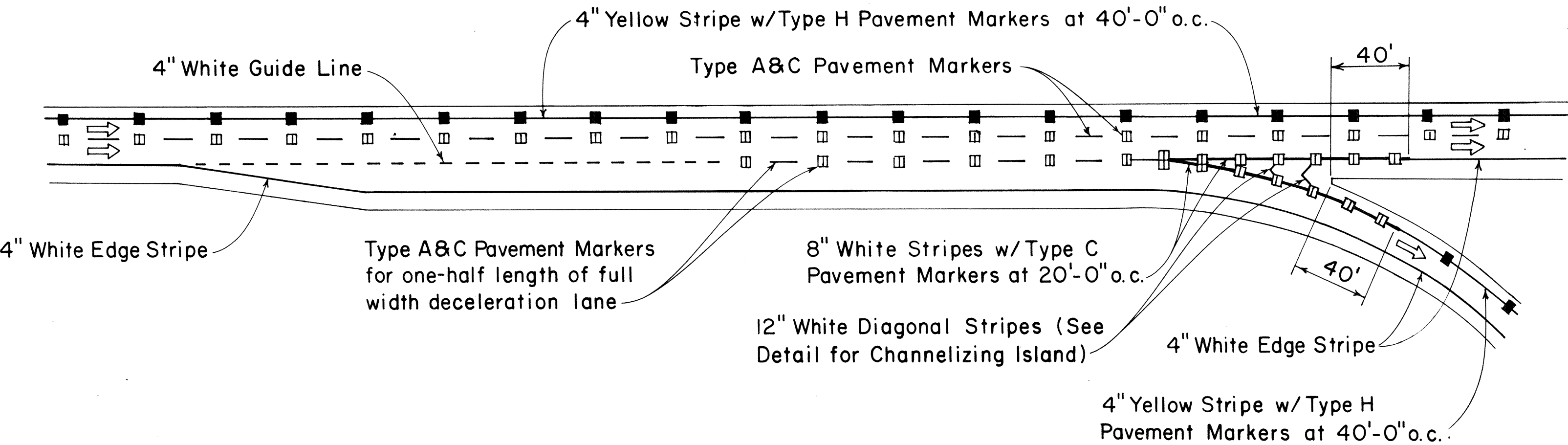
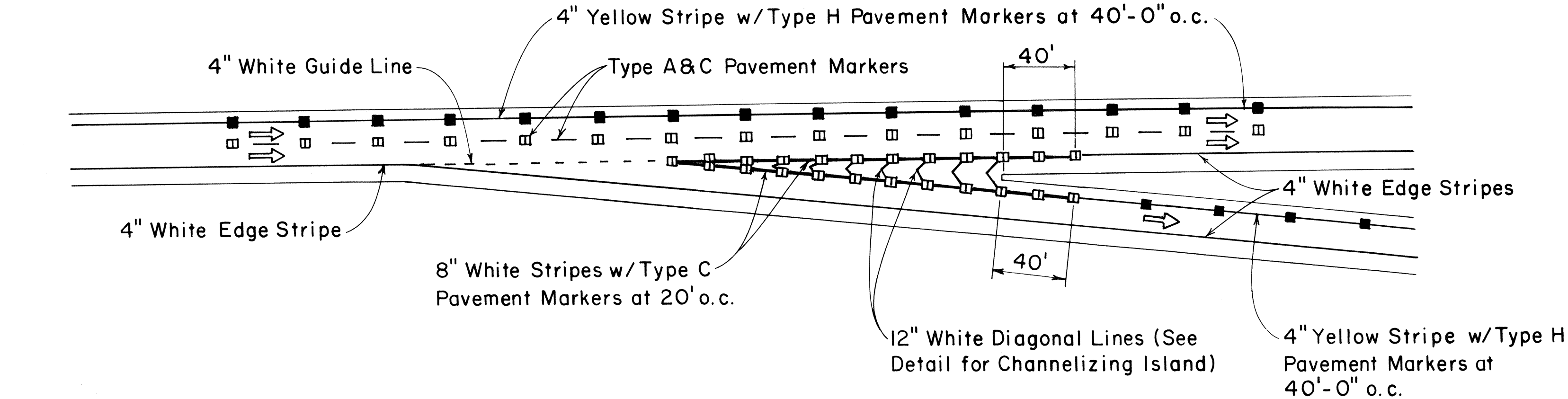
TYPICAL ROADWAY EXIT MARKINGS

TAPERED DECELERATION LANE

PARALLEL DECELERATION LANE

TAPERED ACCELERATION LANE

PARALLEL ACCELERATION LANE



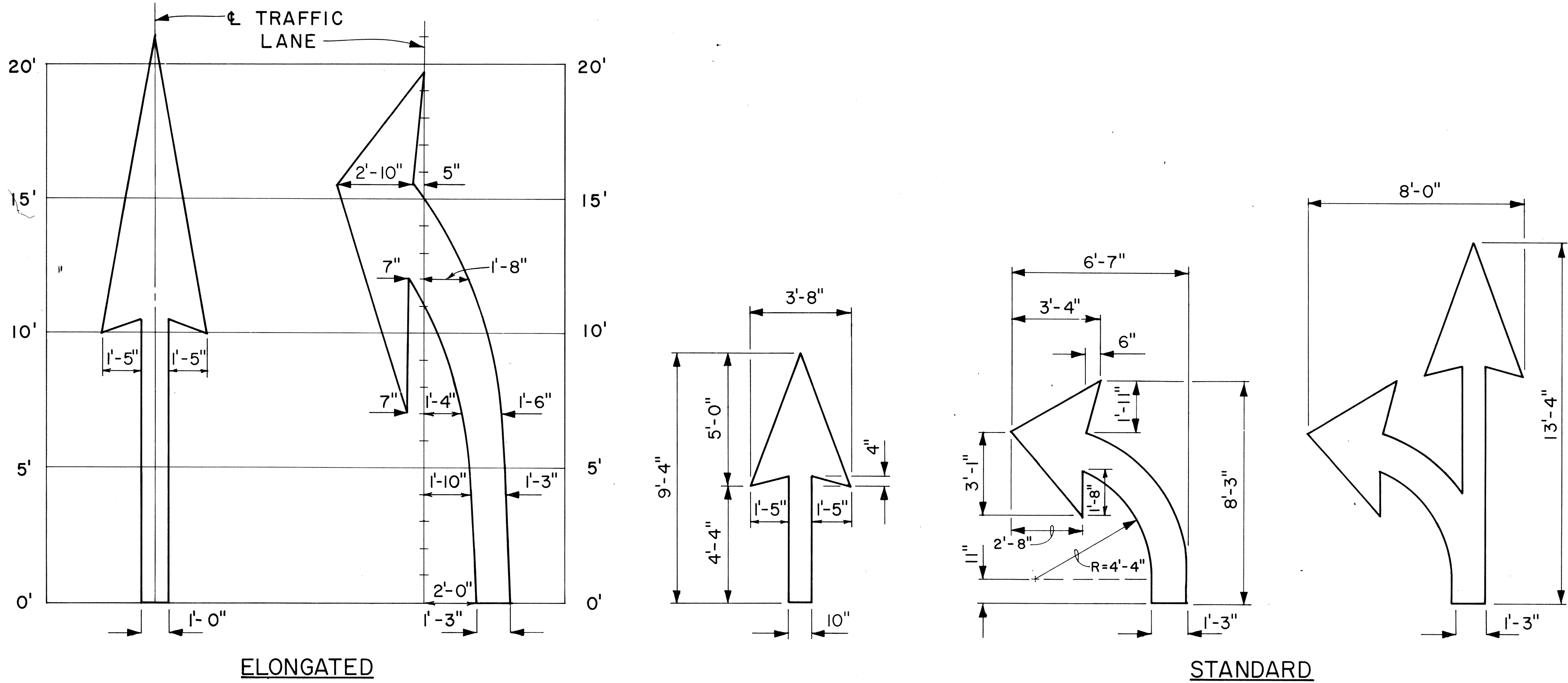
ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
	QUANTITIES BY	
	CHECKED BY	



FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	32A-0183M	1983	11	11

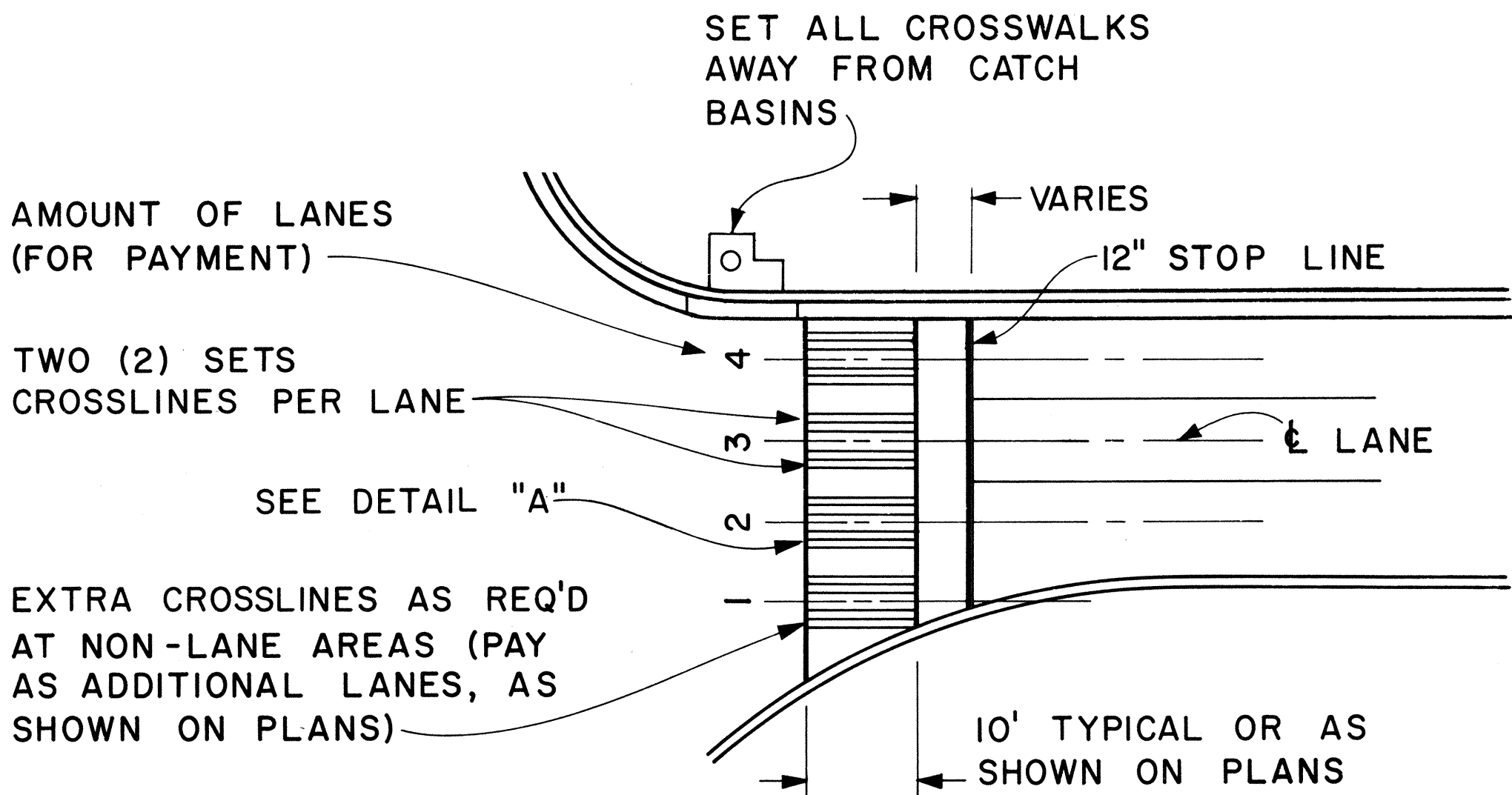
### GENERAL NOTES:

1. Pavement marking and striping shall conform to the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways," by the FHWA, and as amended.
2. Layout of pavement markings and striping shall be done by the Contractor. The Contractor shall check layout of markings and striping with the Engineer prior to performing work.
3. For additional pavement marking details, see sheet DT 300.

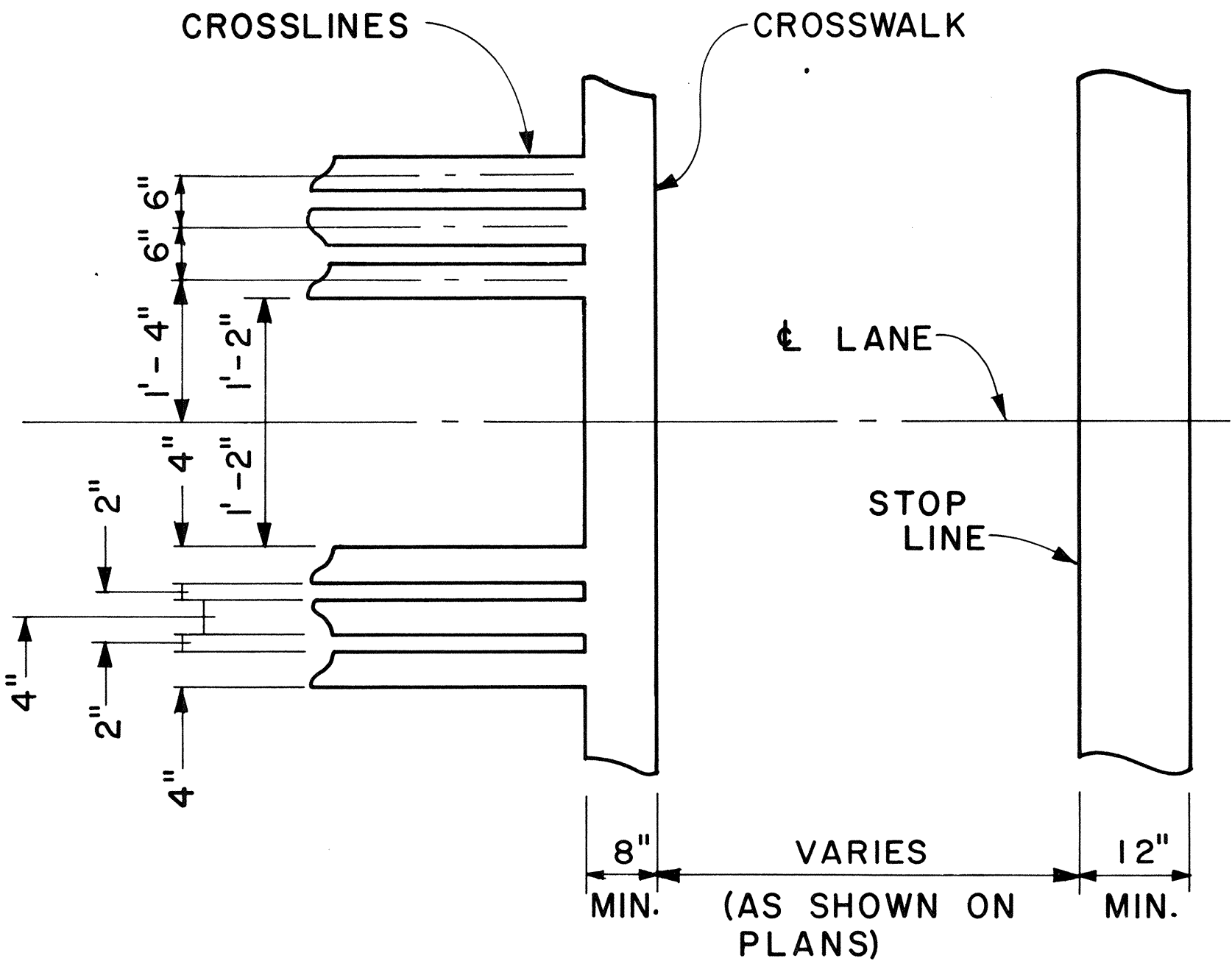


### PAVEMENT ARROWS

Scale: 3/8" = 1'



### PLAN



### DETAIL "A"

### CROSSWALK & STOP LINE

Scale: Not to Scale

APPROVAL RECOMMENDED:  
*Enichi Tanaka*  
 TRAFFIC ENGINEER  
 5/2/78  
 DATE

APPROVED:  
*Andrew D. Zaleski*  
 ASSISTANT CHIEF, ENGINEERING  
 5/2/78  
 DATE

NO.	REVISION	APPROVED BY	DATE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION  
**STANDARD DETAILS**  
MISCELLANEOUS  
PAVEMENT MARKINGS

Scale: As Shown Date: March, 1978  
SHEET No. OF SHEETS DT 306