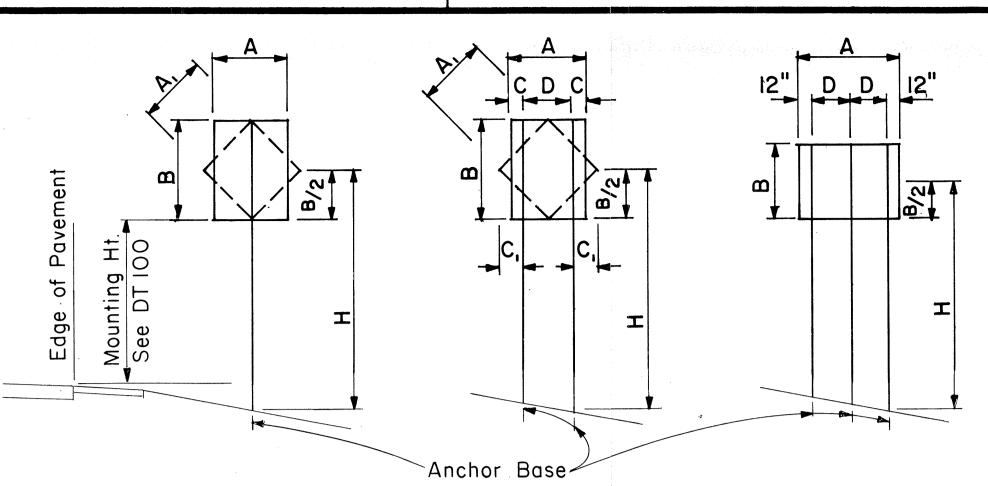


Scale: 3"= 1'-0"

# RETAINER-SPACER STRAP

Not to Scale

RETAINER-SP	RETAINER-SPACER STRAP							
Post Size	Т	Offset						
2.50 lbs./ft.	1.00"	0.145"						
4.00 lbs./ft.	1.12"	0.280"						



I-POST

Sign area IO sq. ft. and less

2-POST

Sign area greater than 10 sq. ft. or A= 48"- 60"

<u>3 - POST</u> A = greater than 60"

### TYPICAL INSTALLATION

Not to Scale

FLANG	ED CH	ANNEL	: 1-	POST	INSTA	LLATIO	NC	
Dark Cine	AxBxH	ŀ	H = Grou	nd Level	to Midp	ooint (ft.)	)	
Post Size	(Factor)	7	8	9	10	11	12	
2.50 lbs./ft.	57	8.14	7.13	6.33	5.70	5.18	4.75	B sq.ft.)
4.00 lbs./ft.	112	-					9.33	A x (Area,

FLANG	ED CH	ANNEL	: 2-	POST	INSTA	LLATIO	ON	
Boot Size AxBxH H = Ground Level to Midpoint (ft								
Post Size	(Factor)	7	8	9	10	11	12	
2.50 lbs./ft.	124	17.71	15.50	13.77	12.40	11.27	10.33	æ
4.00 lbs./ft.	241	34.43	30.13	26.78	24.10	21.91	20.08	Ă

FLANG	ED CH	ANNEL	.: 3-	POST	INSTA	LLATIC	N	
Post Size	AxBxH		H = Grou	nd Level	to Midr	point (ft.)		
P051 5126	(Factor)	7	8	×9	10	11	12	
2.50 lbs./ft.	187	26.71	23.38	20.78	18.70	17.00	15.58	α
4.00 lbs./ft.	362	51.71	45.25	40.22	36.20	32.91	30.17	Δ×

### WINDLOAD CHARTS

NO.	REVISION	APPROVED BY	DATE
		:	
		: : :	

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
 HAWAII	HAW.	83C-01-86M	1986	28	40

A or A,	С	C,
36"	6"	
48"	9"	19"
60"	12"	24"

NOTE: Frame stiffeners are required when D is greater than 24". See Gen. Note 4.

## GENERAL NOTES

Sign posts and base posts shall be flanged channel type structural steel conforming to ASTM A 499 and galvanized in accordance with ASTM A 123.

NOMINAL DIMENSIONS:
2.50 lbs./ft. - 3.125" x 1.562"
4.00 lbs./ft. - 3.500" x 1.750"

- 2. Retainer Spacer Strap shall be AISI 1020 steel and galvanized in accordance with ASTM A 123.
- 3. Retainer and Connector Bolts shall be  $\frac{5}{16}$  - 18 UNC x 1.75" long hex. head, integral flange conforming to ASTM A 354 Grade BC. Nuts shall be  $\frac{5}{16}$  - 18 UNC hex. head, integral flange conforming to ASTM A 563 Grade D. All bolts and nuts shall be cadmium plated per Federal spec. QQP 416 B, Class 2, Type 2.
- 4. All accessories, fittings and stiffener details (as required) shall be submitted to Engineer for approval 20 days prior to installation.
- 5. For additional details see sht. DT 100.
- 6. Basic formulas for use with the windload charts: Factor =  $A \times B \times H$

Therefore, if sign area(AxB) is known, Maximum H =  $\frac{\text{Factor}}{\text{sign area}(A \times B)}$ 

and if H is known,

Maximum sign area(A x B) =  $\frac{Factor}{H}$ 

APPROVAL RECOMMENDED:

TRAFFIC ENGINEER

9/21/82 DATE

APPROVED:

ASSISTANT CHIEF, ENGINEERING DATE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

STANDARD DETAILS

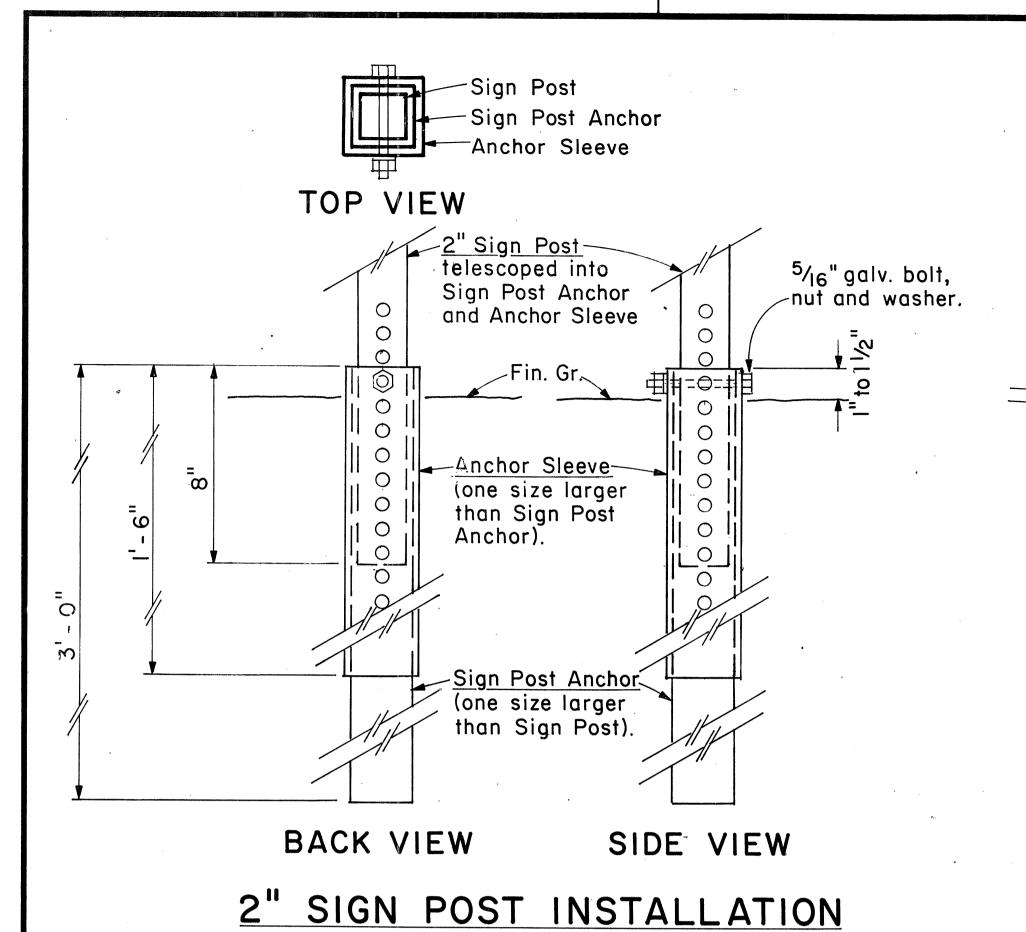
GALVANIZED FLANGED CHANNEL SIGN POST MOUNTING

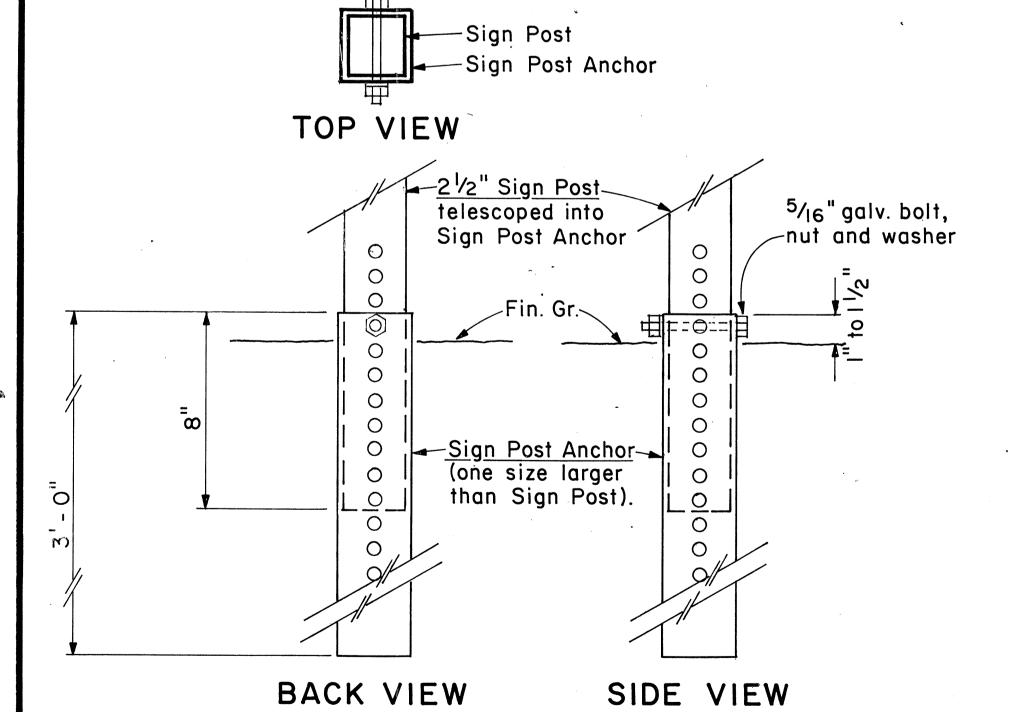
Scale: As Shown

Date: Sept. 1982

OF SHEET No.

SHEETSDT100A

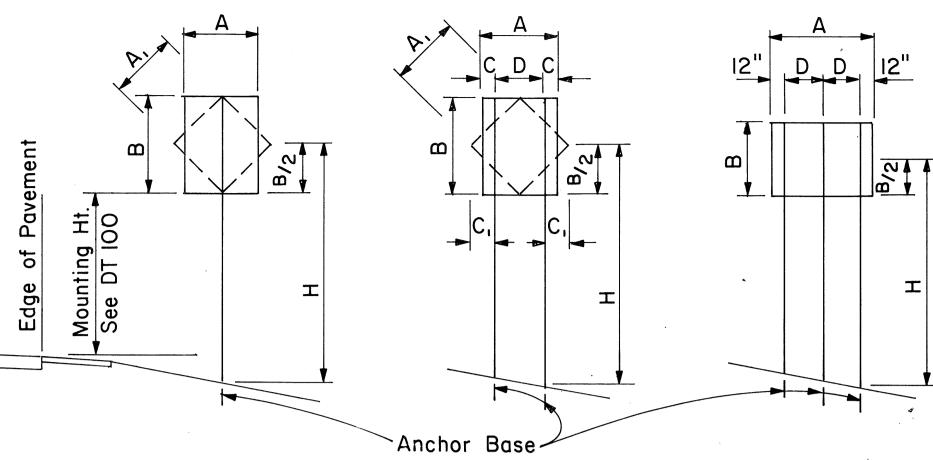




21/2" SIGN POST INSTALLATION

ANCHOR BASE DETAIL

Scale: 3"= 1'-0"



I-POST Sign area Wsq.ft. and less

2 - POST Sign area greater than IO sq. ft. or A = 48"- 60"

<u>3 - POST</u> A = greater than 60" A or A,

36"

48"

C

NOTE: Frame stiffeners are

required when D is greater than 24". See Gen. Note 2.

C,

24"

### TYPICAL INSTALLATION

Not to Scale

SQL	JARE T	UBE:	1 - P	OST IN	STALL	ATION		
Post Size	AxBxH	Ì	H = Grou	nd Level	to Midp	oint (ft.)		
POST SIZE	(Factor)	7	8	9	10	11	12	
2"	62	8.8	7.7	6.8	6.1	. 5.6	4.8	(B
21/2"	107		_	_	-	9.6	8.8	A x (Area,

SQU	ARE T	UBE:	2 - P	OST IN	STALL	ATION		
Post Size	AxBxH	ŀ	H = Grou	nd Level	to Midp	ooint (ft.)		
(Factor) 7 8 9 10 11 12								
2"	122	17.4	15.2	13.5	12.2	11.0	10.1	ff.)
2 1/2"	212	30.2	26.5	23.5	21.1	19.2	17.6	A x B (Area, sq. ft.)
2 ½", 10 ga.	260	37.0	32.0	28.6	26.0	23.5	21.5	(Ar

SQU	ARE T	UBE:	3 - P	OST IN	ISTALL	ATION		
Post Size	AxBxH		H = Grou	nd Level	to Midp	ooint (ft.)		
1 031 3126	(Factor)	7	8	9	10	II	12	
2"	183	26.0	22.8	20.3	18.2	16.6	15.2	.ft.)
21/2"	318	45.4	39.5	35.2	31.5	28.8	26.5	A x B vrea, sq.ft.)
2 ½", 10 ga.	388	55.0	48.5	43.0	38.5	35.0	32.0	্ব ব্

## WINDLOAD CHARTS

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83C-01-86M	1986	29	40

## GENERAL NOTES

- Square tube sign posts shall conform to Subsection 713.11(C) Square Tube Posts of the Specifications.
- 2. All accessories, fittings and stiffener details (as required) shall be submitted to Engineer for approval 20 days prior to installation.
- 3. Square tube posts shall be perforated with 7/16 holes, 1 o.c., 4 sides, along entire length
- 4. All posts shall be 12 gage unless otherwise specified or shown on the plans.
- 5. For additional details see sht. DT 100.
- 6. Basic formulas for use with the windload charts: Factor =  $A \times B \times H$ Therefore, if sign area(AxB) is known,

  Maximum H = Factor Maximum H =  $\frac{\text{ructo.}}{\text{sign area}(A \times B)}$ and if H is known,

Maximum sign area(AxB) =  $\frac{Factor}{11}$ 

APPROVAL RECOMMENDED:

TRAFFIC ENGINEER

9/2//82 DATE

9/22/82

APPROVED:

Worlout Zalzishi ASSISTANT CHIEF, ENGINEERING DATE

APPROVED DATE REVISION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION STANDARD DETAILS

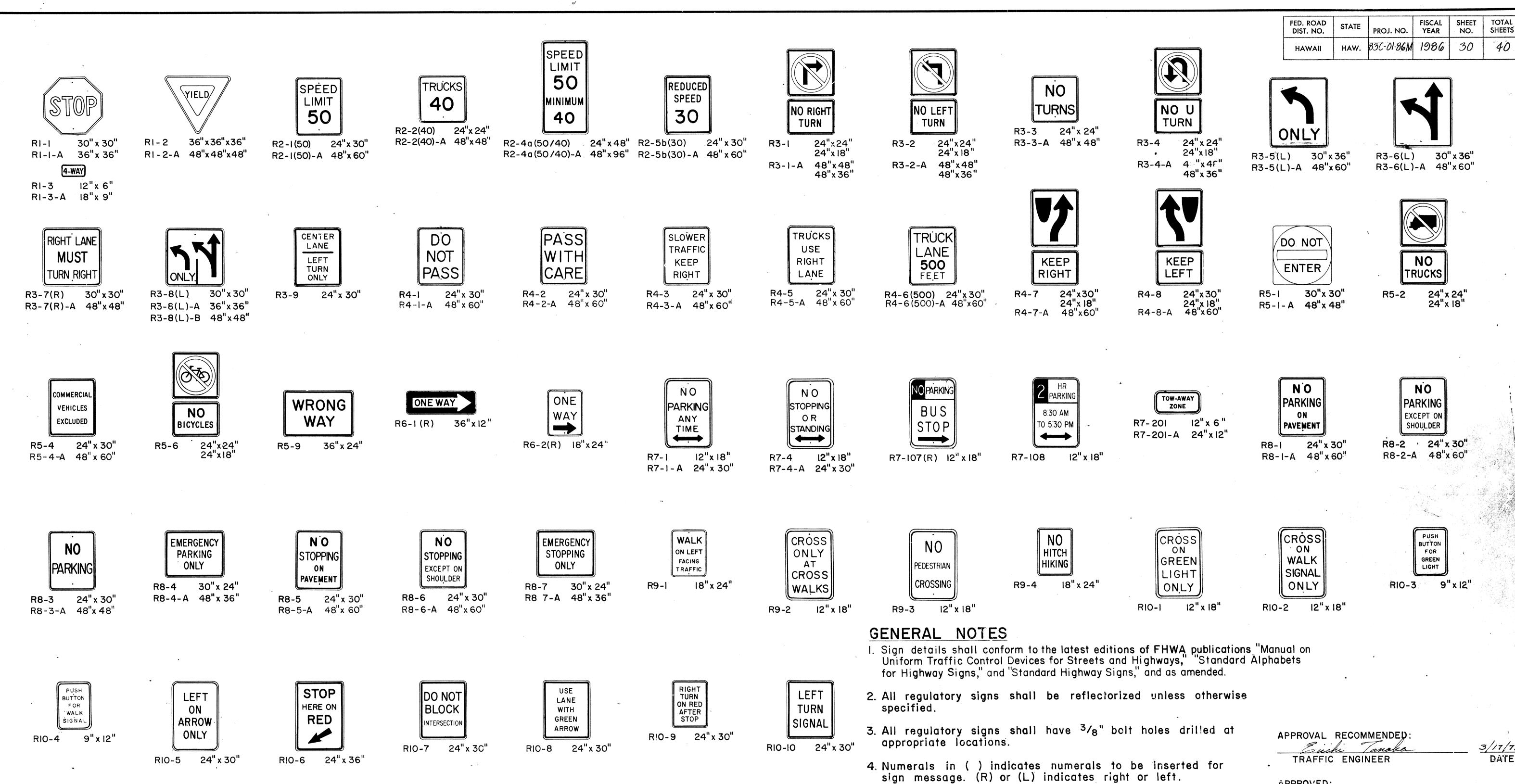
GALVANIZED SQUARE TUBE SIGN POST MOUNTING

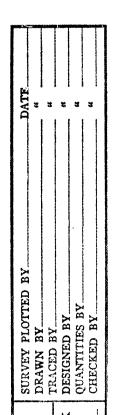
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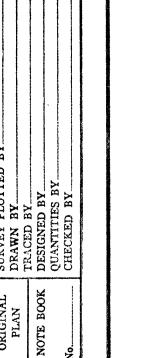
Date: Sepi 1982

SHEET No.

SHEETS DT 100B







IMPERIAL'M LA 3207

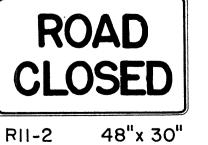
KEEP

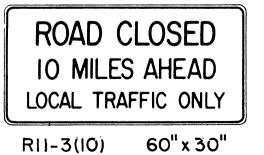
OFF

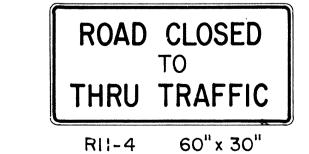
MEDIAN

24" x 30"









The state of



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

NO.	REVISION	APPROVED BY	DATE
l	Supersedes Sht. DT IOI Approved 12-30-69	H:(	2/20/11
2	Revised General Note 1	H1.	10/10/1.
3	Added General Note 5	141.	B/2119
4	Revised Signs and General Note 1	E.T.	9/18/2
			2
			9

3/17/72 DATE

40

APPROVED:

ASSISTANT CHIEF, ENGINEERING

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

STANDARD DETAILS

REGULATORY SIGNS

NOT TO SCALE

OF SHEETS DT 101 SHEET No.

3-20-12

DATE



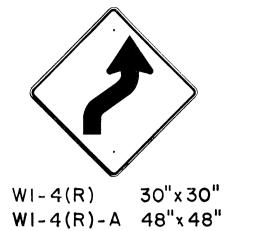
30"<sup>1</sup>, 30" WI-I(R)-A 48"x48"



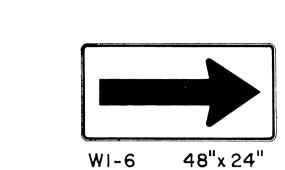
WI-2(R) 30"x 30" WI-2(R)-A 48"x 48"



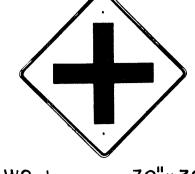
WI-3(R) 30"x30" WI-3(R)-A 48"x48"



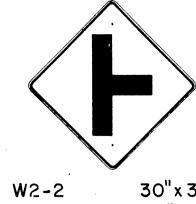
WI-5(R) 30"x30" WI-5(R)-A 48"x48"



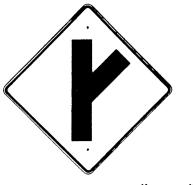
WI-7 48"x 24"



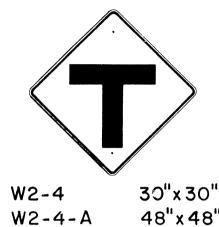
W2-1 W2-1-A 30"x 30" 48"x 48"

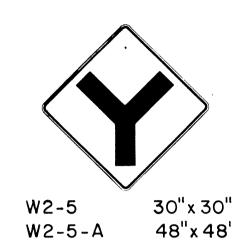


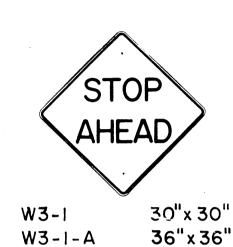
30"x 30" W2-2-A 48"x 48"

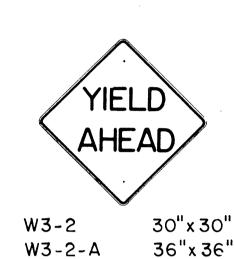


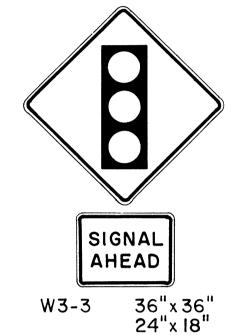
30"x 30" W2-3(R) W2-3(R)-A 48"x48"

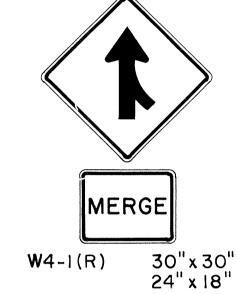


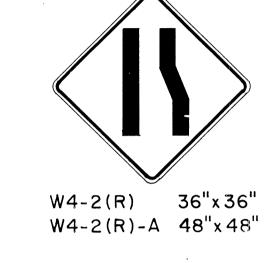
















36" x 36"

W5-2-A

36"x 36" 48"x 48"

W5-3-A



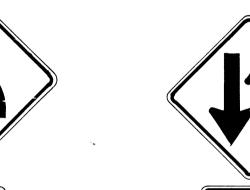
DIVIDED

36"x 36" W6-1 24"x 18" W6-I-A 48"x 48" 24"x18"



W6-2

W9-2(L) 36"x 36"



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

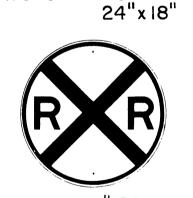


W9-2(L)-A 48"x 48"



TWO WAY TRAFFIC

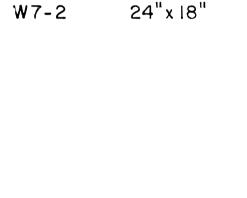
**3**0"x 30" 24"x 18" W6-3-A 36"x 36" 24" x 18" W6-3-B 48"x 48"



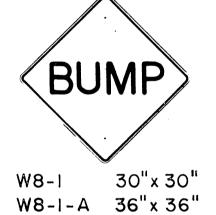
WIO-I 36" Diameter



30"x 30" W7-1 24"x 18" W7-1-A 48"x 48" 24"x 18"



USE LOW GEAR



CATTLE

XING

WII-4 30"x30"

WII-4-A 36"x36"

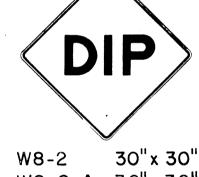
WII-4-B 48"x 48"

DEAD

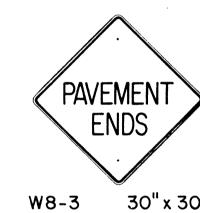
24"x 18"

24"x 18'

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



W8-2 30" x 30" W8-2-A 36" x 36" W8-2-B 48"x 48"



W8-3 30" x 30" W8-3-A 36" x 36"

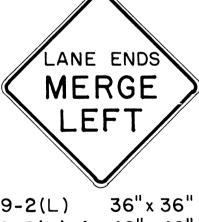


WHEN WET

30"x 30" 24"x 18"

# RIGHT LANE ENDS

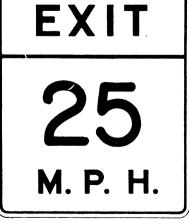
W9-I(R) 30" x 30" W9-I(R)-A 36"x 36" W9-I(R)-B 48"x48"





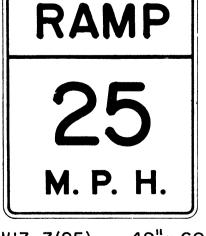
BIKE XING 30"x 30"

24"x 18" WII-I-A 36"x36" 24"x 18" WII-I-B 48" x 48"

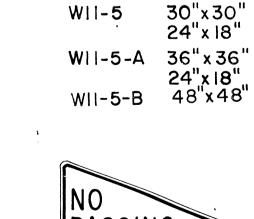




WIIA-2 30"x 30" 24"x 18" WIIA-2-A 36"x36" WIIA-2-B 48"x 48" 24"x18"



END

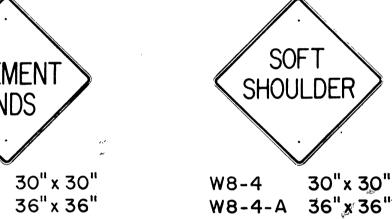


FARM

MACHINERY



W14-3 36" x 48" x 48" W14-3-A 48" x 64" x 64"



W8-5-A 36"x 36" 24"x18"

## GENERAL NOTES

- I. Sign details shall conform to the latest editions of FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways", "Standard Alphabet for Highway Signs", and "Standard Highway Signs", 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.

REVISION

Supersedes Sht. DT 102

Approved 12-30-69

2 Revised General Note I

3 Revised General Note 5

4 Revised General Note 5

6 Revised Signs & General Note I

5 Added Note I

APPROVED BY	DATE	,	
H.T.	3/20/12		
14.	10/16/14		
Mt	9-16-75		
HT.	9-14-760		
H1.	11-4-79		
ET.	9/18/85		

APPROVAL RECOMMENDED: TRAFFIC ENGINEER

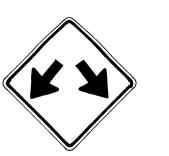
APPROVED: 3-20-12 ASSISTANT CHIEF, ENGINEERING DATE

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

> STANDARD DETAILS WARNING SIGNS

NOT TO SCALE

SHEETS DT 102 SHEET No. OF



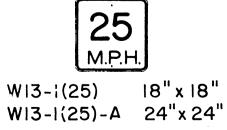
24" x 24" W12-1 WI2-I-A 36"x 36" WI2-I-B 48"x 48"

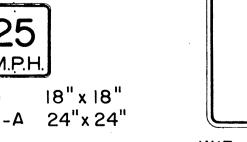


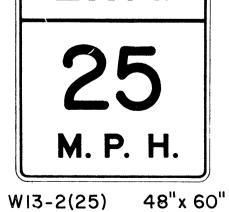
W12-2(12'-6") · 48"x 48"

W13-1(25) CLEARANCE W12-2(12'-6") 36"x 36"

24"x 18







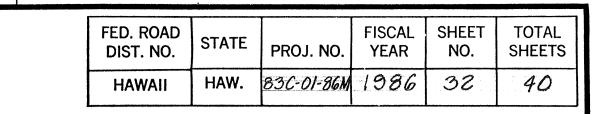
W13-3(25) 48"x 60"

I. Al! signs shall be erected without educational plaques unless called for in the plans.

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

3/17/12

DATE



(ALL WAY) RI-4 18"x 6"

R9-3b(R) 18"x12"

REDUCED SPEED AHEAD

24" x 30" R2-5a R2-5a-A 48" x 60"

**←** USE Crosswalk

R9-3b(L) 18" x 12"

4" Series D ENFORCED - 4" Series C - 3" Series D RADAR - 5" Series C

R2-10 24"x 30'

NO

**TURN** 

RED

RIO-IIa 24" x 30"

LANE

ONLY R3-9b 24"x36"

CAUTION

RI6-I 24"x30"

ANY TIME 4" Series C

CENTER



R7-107

R7-8 | 12"x18" R7-8-A 24"x30"



ANY TIME -4" Series C R9-3a

24" x 24" 2**4**" x 18" R8-3a

R9-3a-A 24"x24" 24"x18"

RI6-6 24"x30"

18"x 18"

-8" Series F

NO PED

XING

R8-3a-A 48"x 48"

UNLICENSED

VEHICLES

BICYCLES, CYCLES UNDER 5 H P,

PEDESTRIANS

KEEP OUT

RI6-5 36"x 42"

TRUCK

CROSSING

3" Series C

4" Series E

2. All signs shall be reflectorized with reflective sheeting, unless otherwise specified.

b. "Standard Highway Signs," and as amended,

Streets and Highways," and as amended,

c. Manual on Uniform Traffic Control Devices for

Sign details shall conform to the latest editions

a "Standard Alphabets for Highway Signs," and as

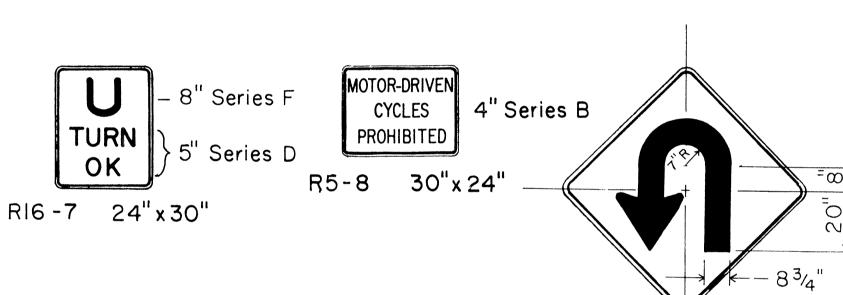
of the following FHWA publications:

3. All signs shall have  $\frac{3}{8}$ " bolt holes drilled at appropriate locations.

4. Numerals in ( ) indicate 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 with reflective sheeting.

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



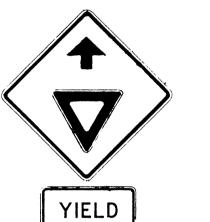
W17-1(L) 60"x60"

STOP AHEAD 36"x 36" 24 x 18"

W3-la-A 48"x48"

24"x 18"

YIELD AHEAD



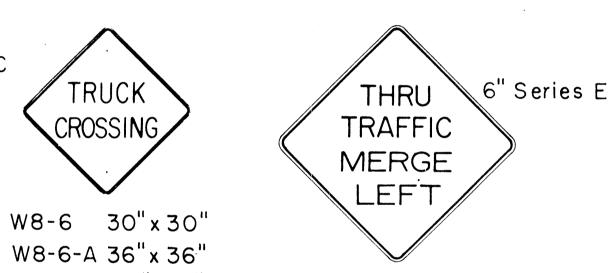
RI6-3 18"x 24"

W3-2a 36"x 36' 24"x | 8" W3-2a-A 48"x48" 24"x18"



RI6-4 18"x 24"

W8-6-A 36"x 36" W3-4 48" x 48" W8-6-B 48"x 48"



W9-3(L) 48"x 48"

RIGHT

LANE

EXIT

ONLY

48" x 60"

8" Series E

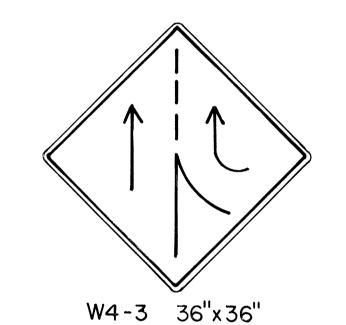
REVISION

2 Added General Note 6

added Sign W4-3

3 Revised Signs and

Supersedes Sht. DT 103 approved 3/20/72



W4-3-A 48"x 48"

APPROVED DATE

11/9/19

9/18/80

H.P.

41.

General Notes

amended.



EQUESTRIAN XING

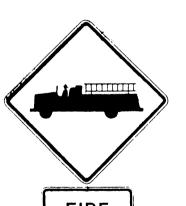
WII - 7 36" x 36" 24" x 18"

WII-7-A 48" x 48" 24" x 18"

SURVEY DRAWN TRACED DESIGNE QUANTE CHECKE



SI-I 36"x36" SI-I-A 48"x48"

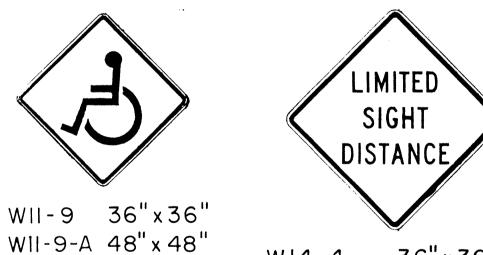


STATION WII-8 36"x 36" 24"x18"

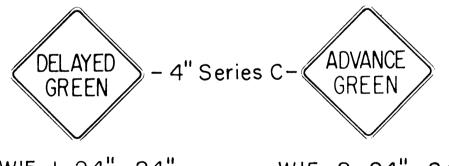
WII-8-A 48"x 48" 24"x 18"

SCHOOL BUS STOP AHEAD

S3-I 30"x30" S3-I-A 36"x36"



36" x 36" W14-4 W14-4-A 48"x48"



WI5-I 24"x 24"



8" Series E

 $CW16-1(\frac{1}{2})$   $60" \times 60"$ 

APPROVAL RECOMMENDED: TRAFFIC ENGINEER

APPROVED:

Harbert 2. Dateishi ASSISTANT CHIEF, ENGINEERING

> STATE OF HAWAII
> DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

STANDARD DETAILS

MISCELLANEOUS SIGNS

NOT TO SCALE

DATE: MAY, 1978 OF SHEETS DT 103 SHEET No.

-AT-S2-I 36"x 36" S2-I-A 48"x 48"

S4-1 24"x10"

WHEN CHILDREN ARE PRESENT \$4-2 24"x10"

8:00 AM TO 3:30 PM

SCHOOL S4-3 24"x8"

WHEN FLASHING \$4-4 24"x10"



4" Series C SIDEWALK RI8-I 24"x 18"

5/2/78

DATE

5/3/18

DATE



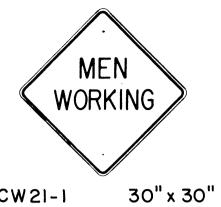




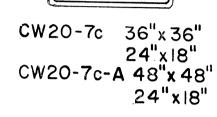




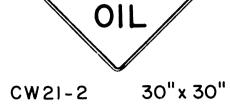






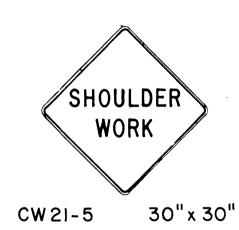


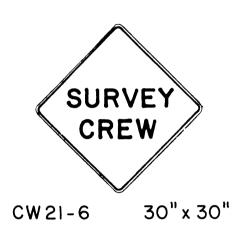




ROAD MACHINERY CW 21-3

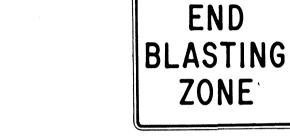










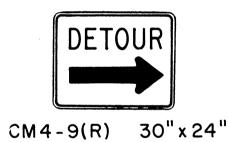


CW 22-3 42" x 36"

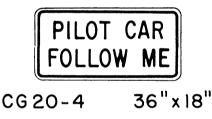
ROAD CONSTRUCTION NEXT 5 MILES

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

END CONSTRUCTION CG 20-2 60" x 24"

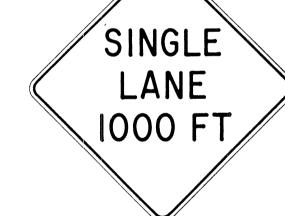








CW23-1





CW 23 - 2b 48" x 48"

CW 23-3(R) 48" x 48"

### GENERAL NOTES

36"x 36"

- 1. Sign details shall conform to the latest editions of FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," "Standard Alphabets for Highway Signs," and "Standard Highway Signs," 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.	3/23/12
2	Revised General Note I	14.1.	10/16/12
3	Revised General Note 2	Mi	9-16-75
4	Revised General Note 2 and sign CG20-1(5)	H.P.	9-14-76
5	Revised General Note I and sign CW 20-7c	8.T.	9/18/8

APPROVAL BECOMMENDED: TRAFFIC ENGINEER

3/21/12 DATE

3/23/12

DATE

ASSISTANT CHIEF, ENGINEERING

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

STANDARD DETAILS

CONSTRUCTION SIGNS

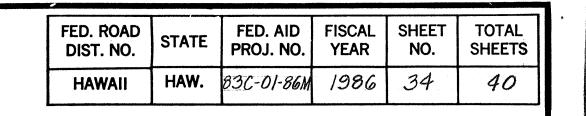
NOT TO SCALE

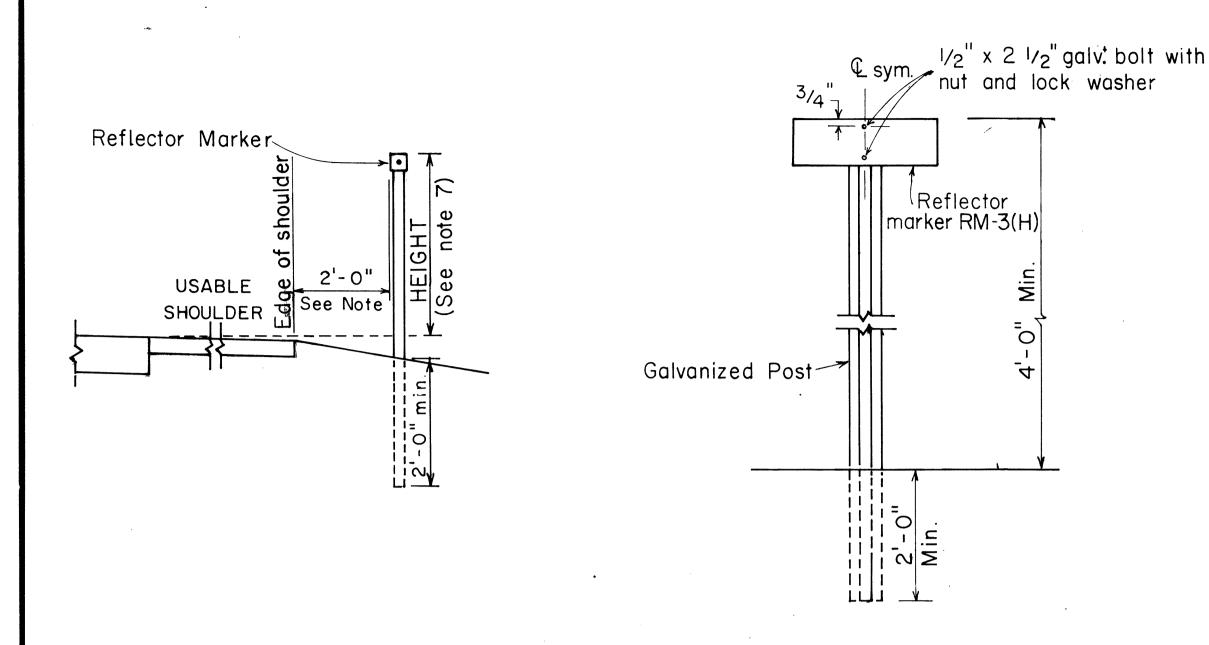
SHEET No.

SHEETS DT 104

OF

HIPERIAL LA 3207





REFLECTOR MARKER MOUNTING DETAIL

Galv. sq. tube post-Lock washer  $\frac{1}{4}$ " ø x 2  $\frac{1}{2}$ " galv. bolt, Reflector marker (for lock washer & 7/8" x 0.06" bi-directional mounting stainless steel flat washer see Detail below) with neoprene rubber gasket

### GALVANIZED SQUARE TUBE POST

Additional  $\frac{7}{8}$ " x 0.06" stainless /steel flat washer with neoprene rubber gasket (for bi - directional mounting only). -Additional plate (for bidirectional mounting only) Galvanized flanged channel For bolt, nut 8 washers see Detail above

GALVANIZED FLANGED CHANNEL POST

Note:

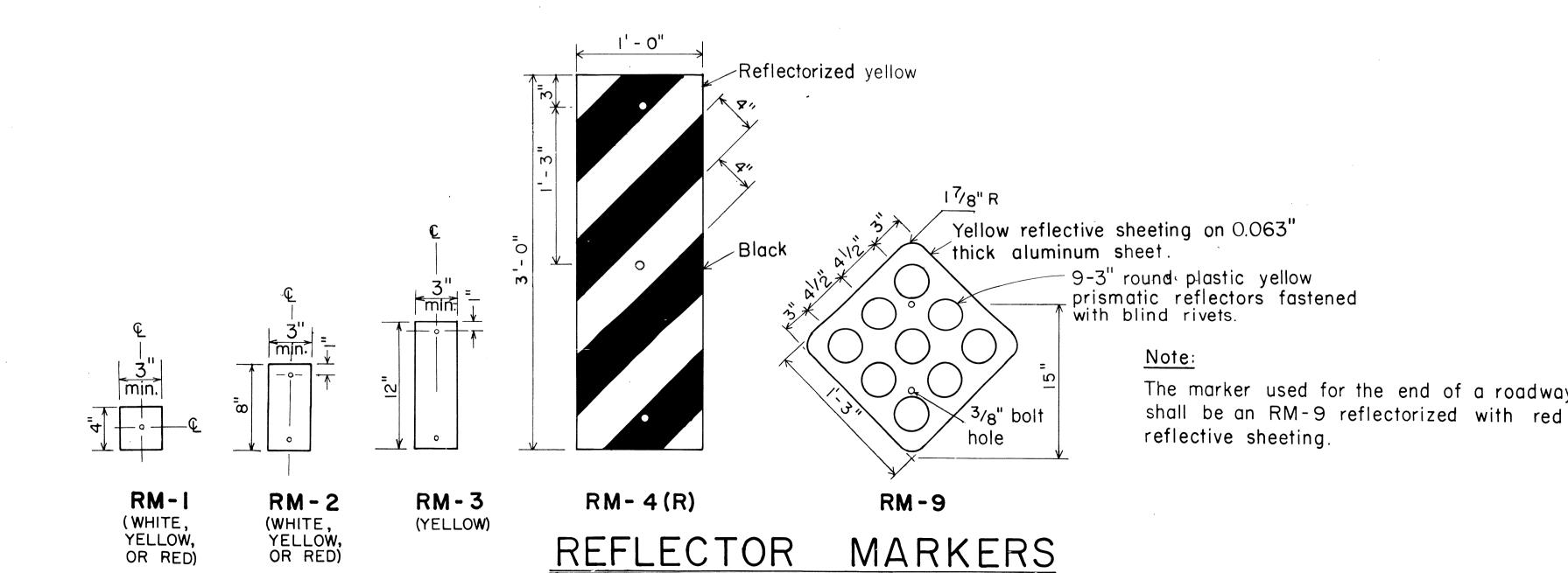
reflective sheeting.

# TYPICAL MOUNTING DETAILS

The marker used for the end of a roadway

### 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 RM-4, the stripes shall slope downward at an angle of 45° toward the side of the obstruction that traffic is to pass.
- 5. For reflector marker RM-9, reflective sheeting material may be used as an alternate.
- 6. (H) indicates horizontal mounting of reflector marker.
- 7. Height = 4'- 0'' min. for RM-1, RM-2 and RM-3. Height = 5'-6'' min. for RM-4 and RM-9.
- 8. Final locations of reflector markers shall be approved by the Engineer.



APPROVED DATE REVISION Revised Mounting Details Revised General Notes, Mounting Details and Reflector Markers. 3 Eliminated White for RM-4

4/23/80 BJD 9-28-83

Horbert 2 = Zaleishi DATE ASSISTANT CHIEF, ENGINEERING STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION

STANDARD DETAILS

OF

MISCELLANEOUS REFLECTOR MARKERS

Not to scale SHEET No.

APPROVAL RECOMMENDED

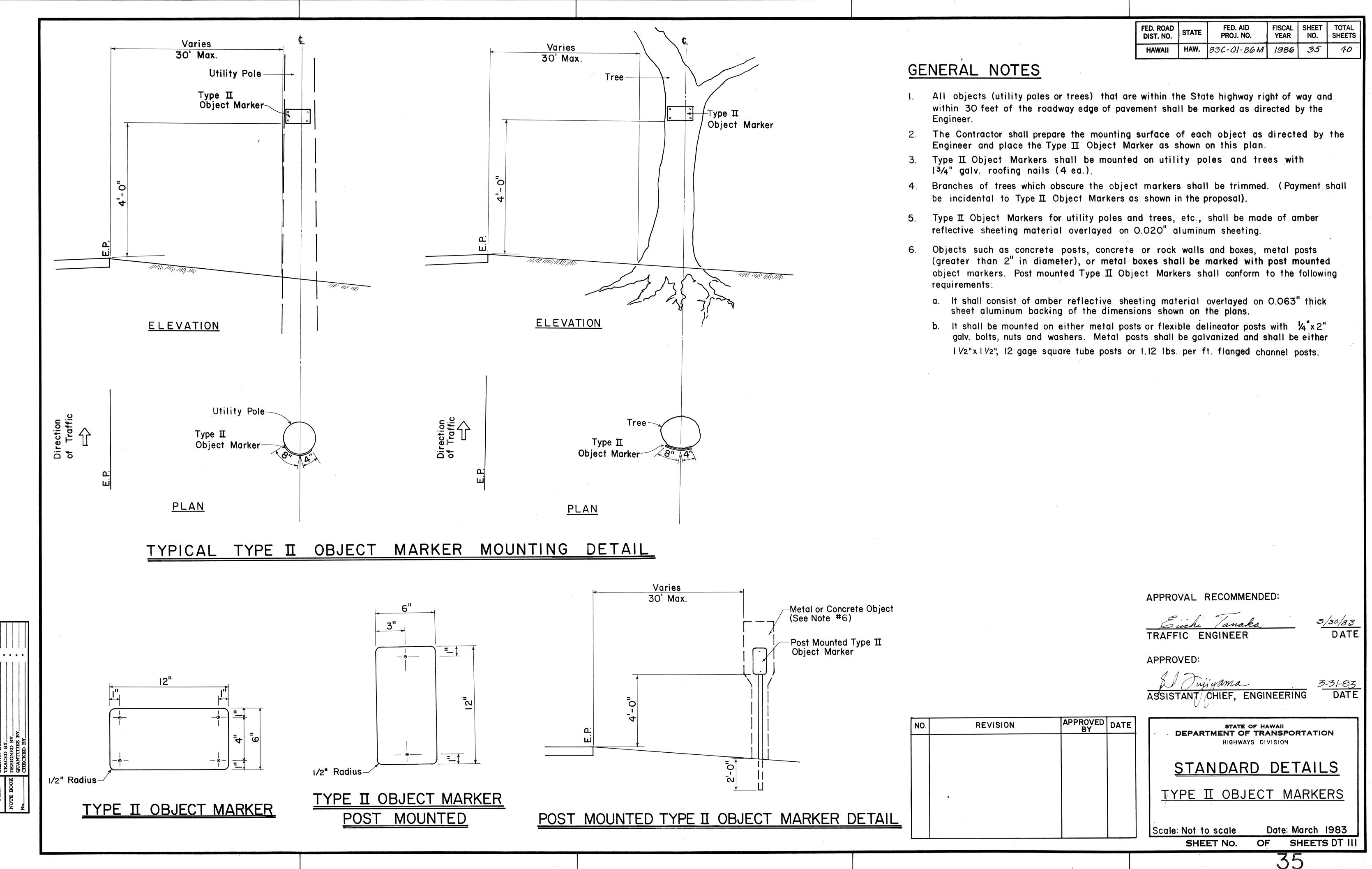
TRAFFIC ENGINEER

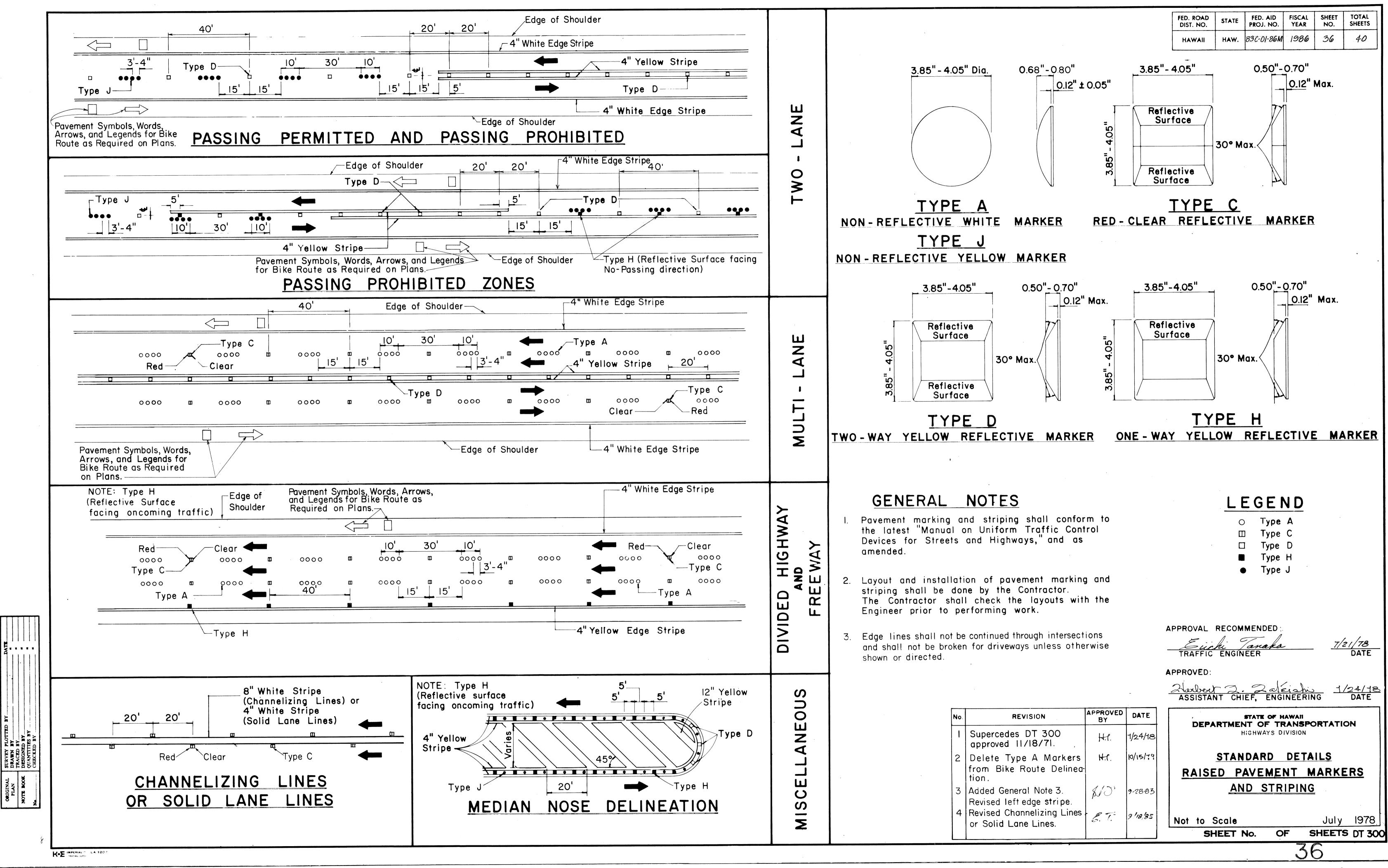
APPROVED

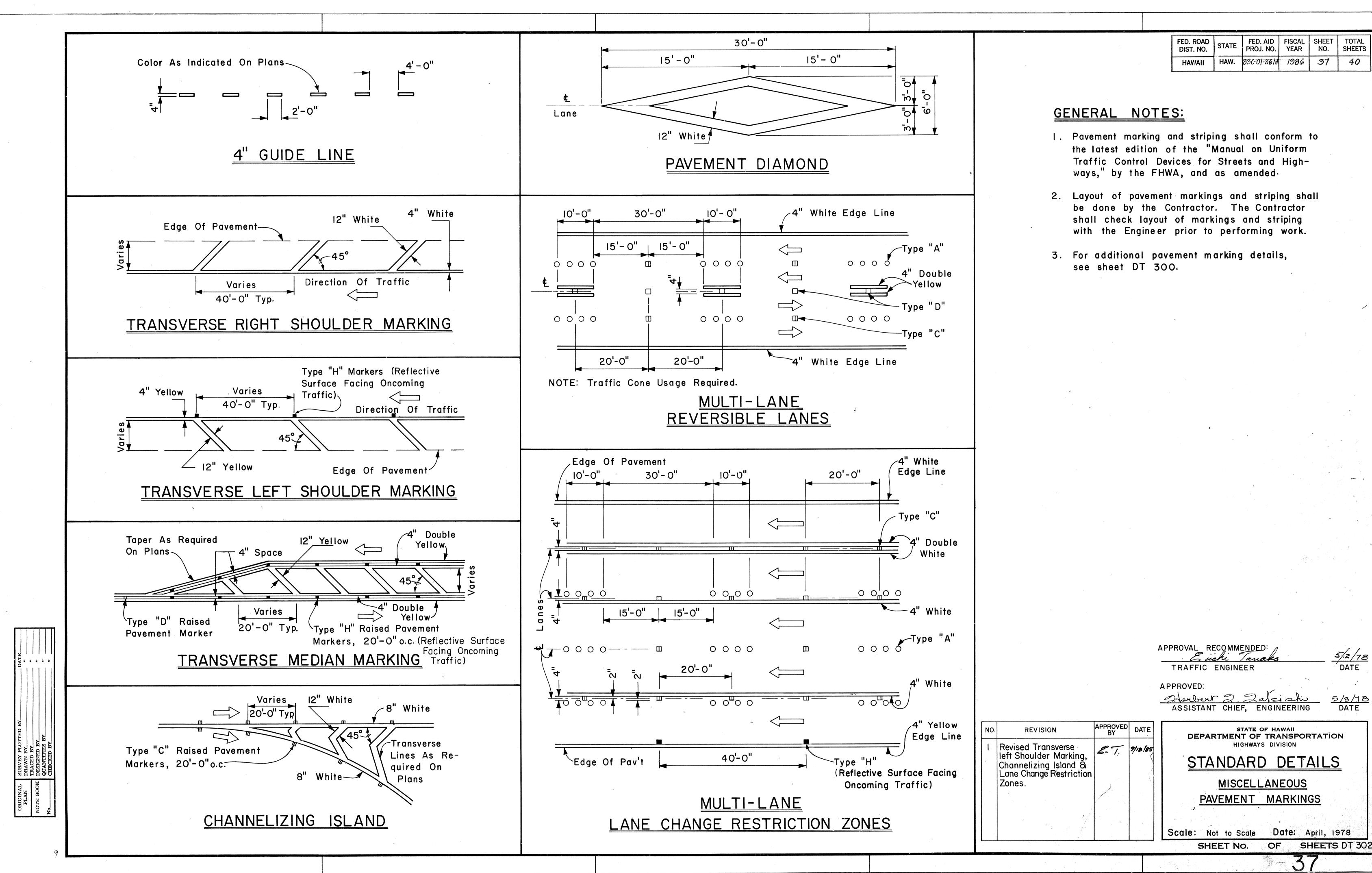
June, 1977 SHEETS DT 110

////77 DATE

K-E TRADING PAPER

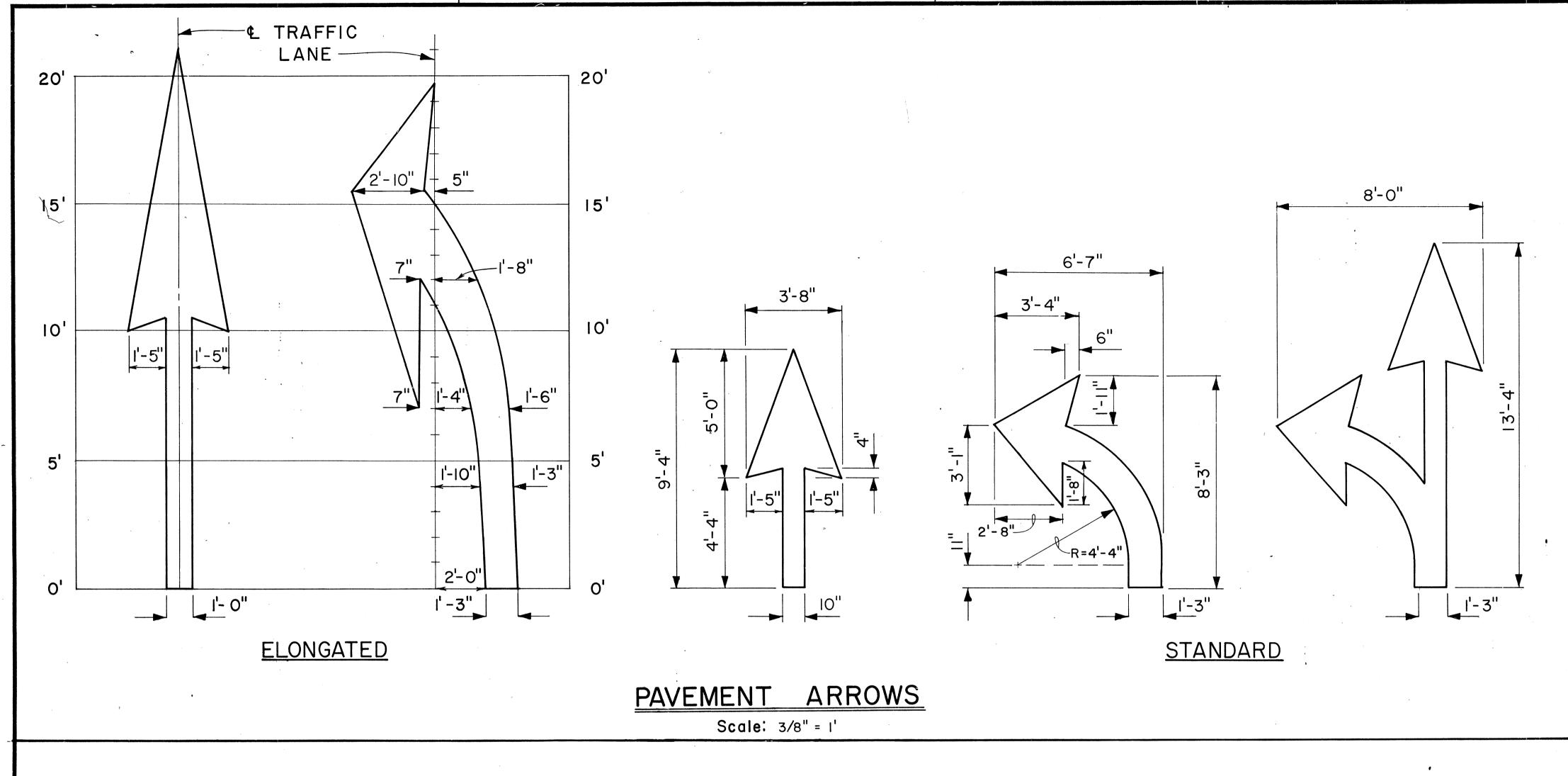


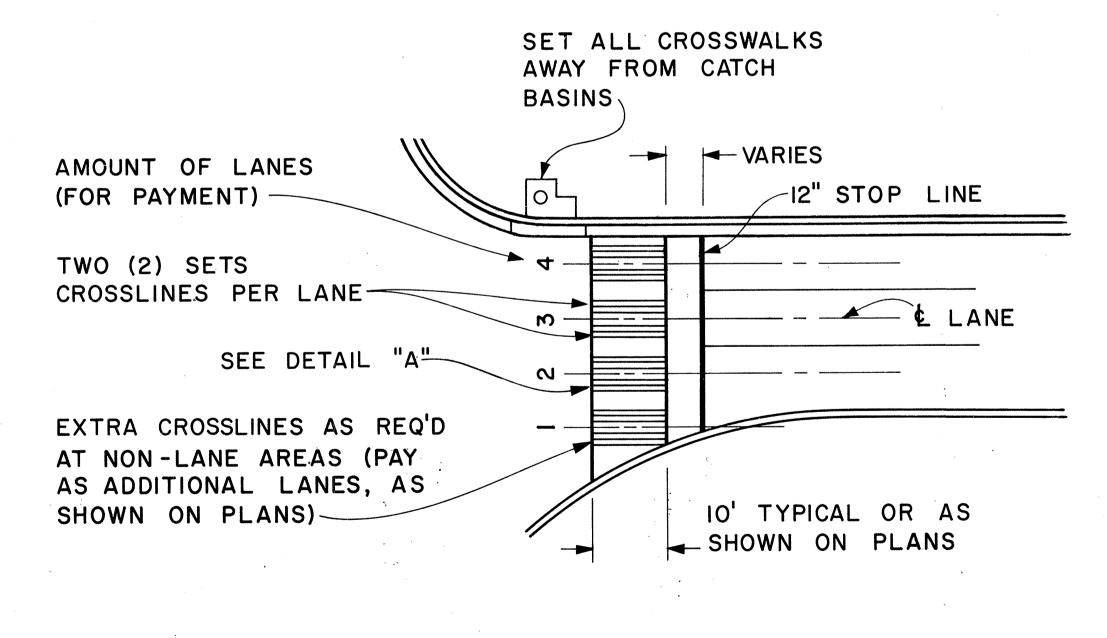


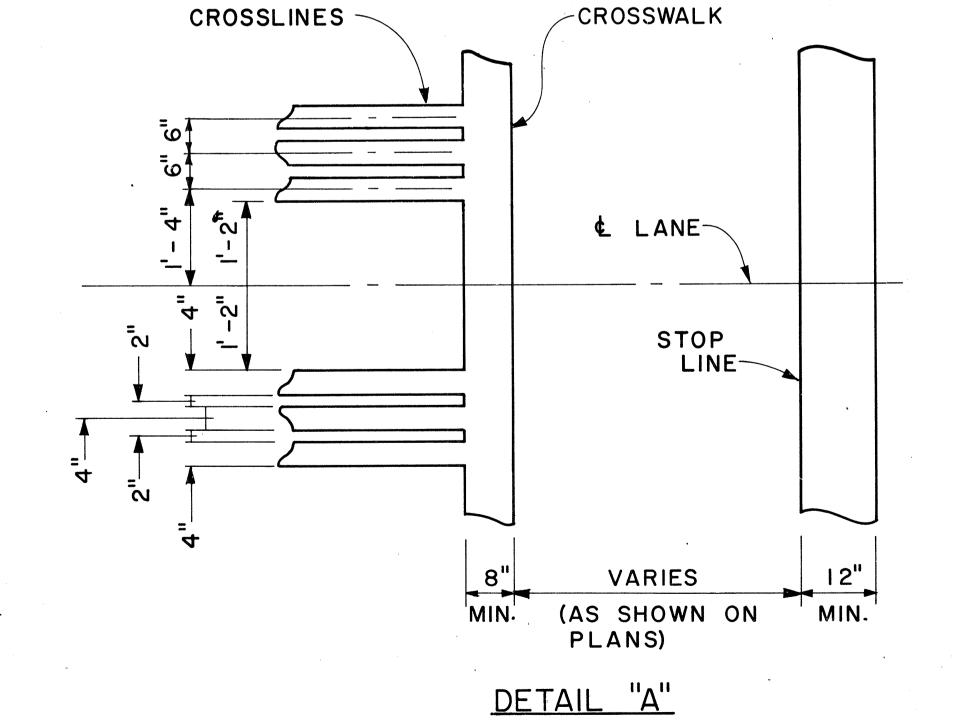


5/2/78 DATE

5/3/18 DATE







PLAN

CROSSWALK & STOP LINE

Scale: Not to Scale

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	83C-01-8 <b>GM</b>	1986	38	40

### **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:

Lichi Janaka

TRAFFIC ENGINEER

APPROVED:

ASSISTANT CHIEF, ENGINEERING

IO. REVISION APPROVED DATE

DEPARTMENT OF TRANSPORTATION
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS

MISCELLANEOUS

MISCELLANEOUS
PAVEMENT MARKINGS

STATE OF HAWAII

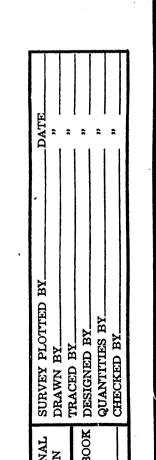
Scale: As Shown Date: March, 1978
SHEET NO. OF SHEETS DT 306

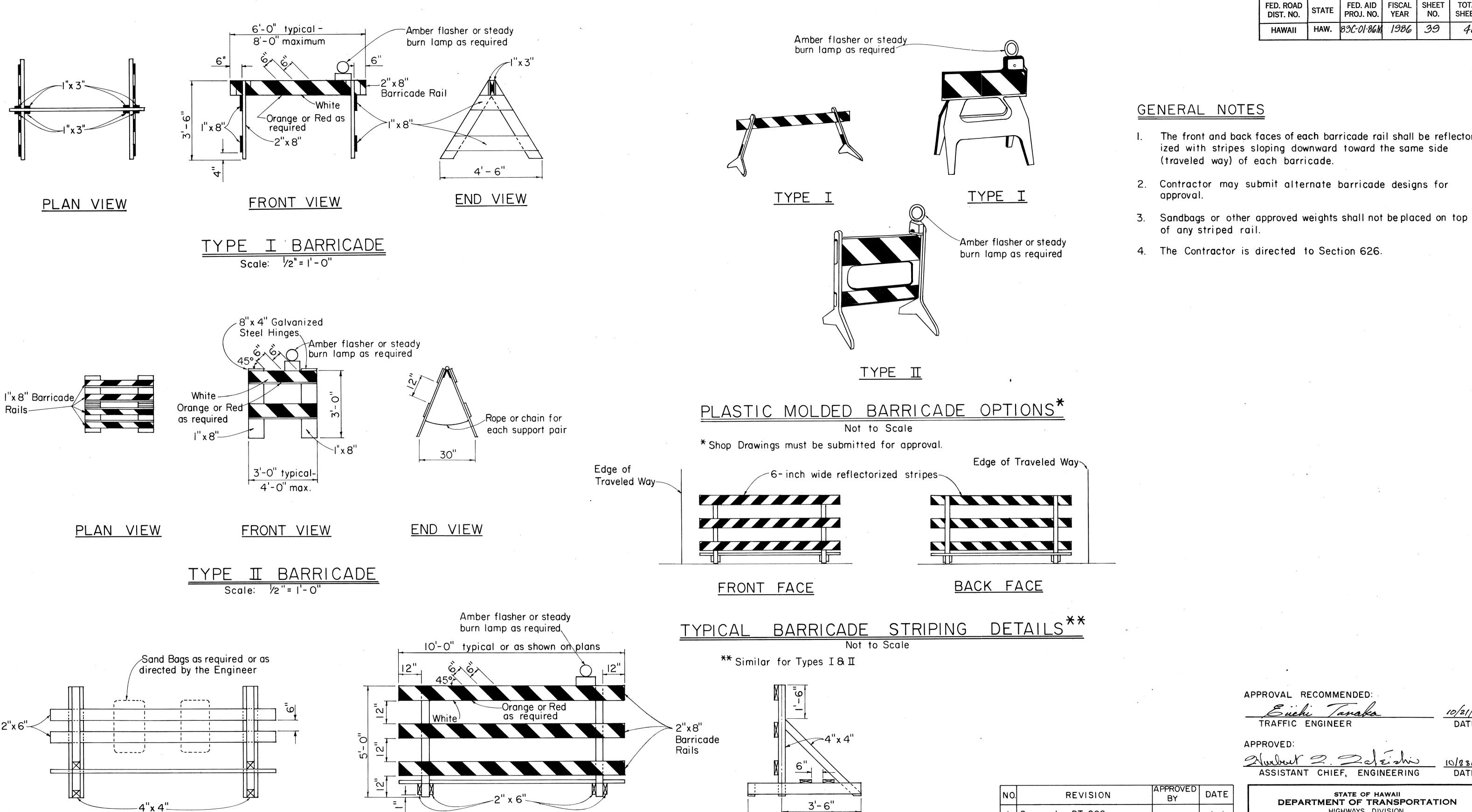
<u> 38</u>

5/2/18

DATE

<u>5/3/18</u> DATE





FRONT VIEW

TYPE II BARRICADE

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

PLAN VIEW

5'-0"

END VIEW

APPROVED: ASSISTANT CHIEF, ENGINEERING APPROVED DATE STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION Supercedes DT 800 10/23/81 H.T. Approved 12/30/69 STANDARD DETAILS **BARRICADES** SCALE: As Shown SHEETS DT 800 OF SHEET No.

39

FED. AID FISCAL SHEET PROJ. NO. YEAR NO.

HAW. 83C-01-86M 1986 39

The front and back faces of each barricade rail shall be reflector-

ized with stripes sloping downward toward the same side

APPROVAL RECOMMENDED:

TRAFFIC ENGINEER

(traveled way) of each barricade.

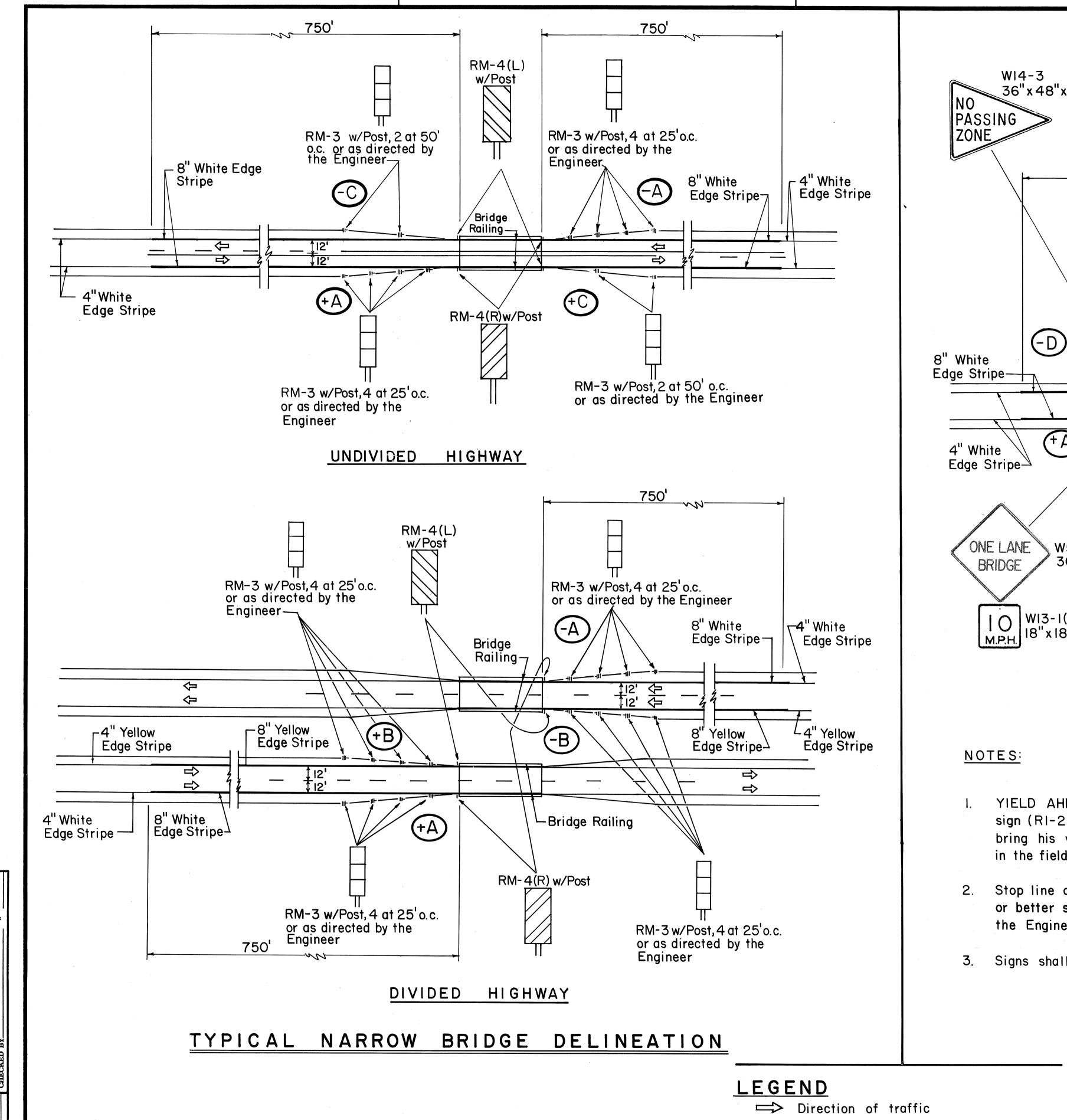
approval.

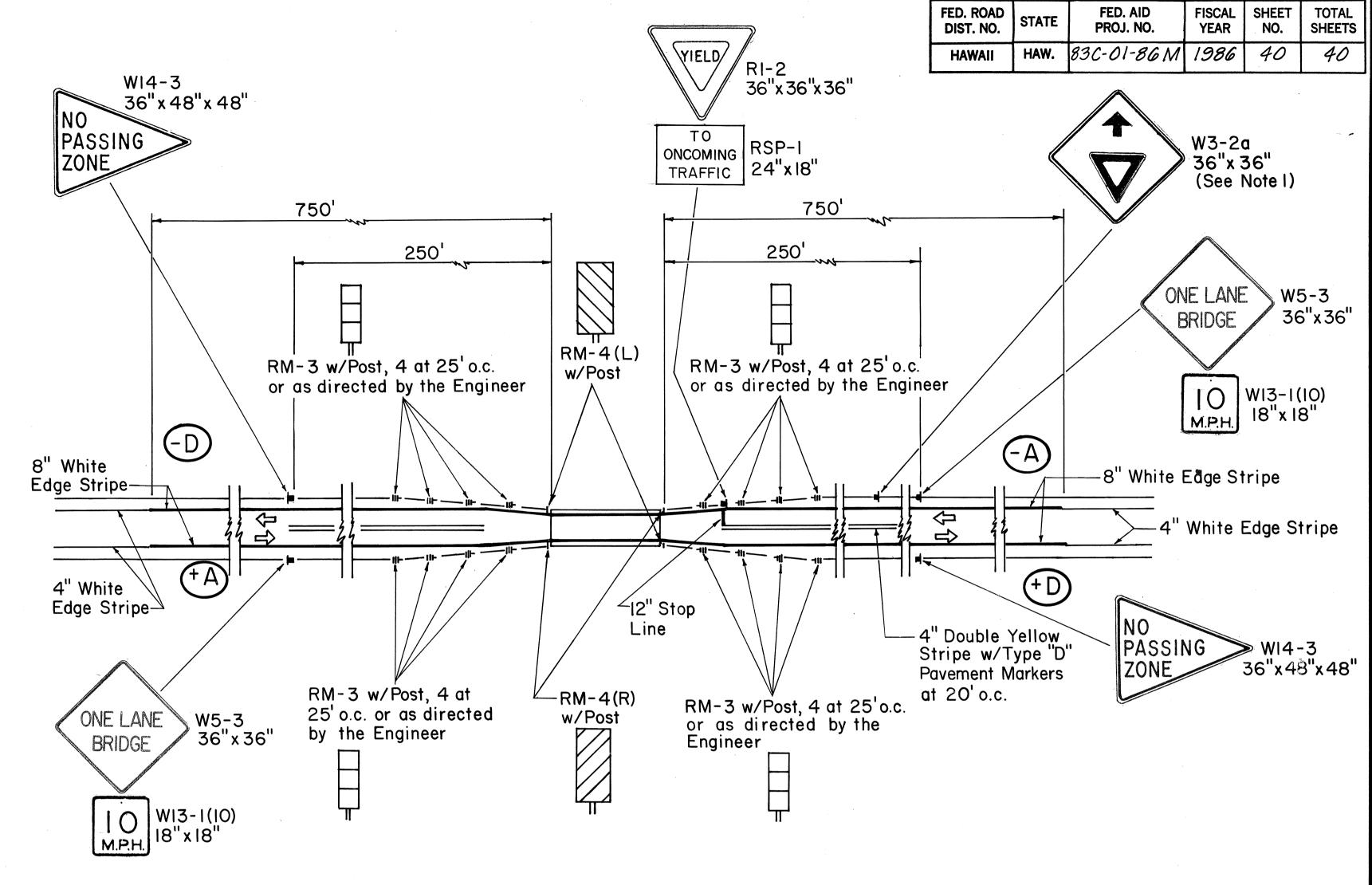
of any striped rail.

39

10/21/81 DATE

10/23/81 DATE





TYPICAL ONE LANE BRIDGE DELINEATION

- YIELD AHEAD sign (W3-2a) shall be installed only on approaches to a YIELD sign (RI-2) that is not visible for a sufficient distance to permit a driver to bring his vehicle to a stop at the YIELD sign. Final location will be determined in the field by the Engineer.
- 2. Stop line and YIELD signs shall be installed on the approach that has the longer or better sight distance. Final location will be determined in the field by the Engineer.
- 3. Signs shall be spaced a minimum of 125 feet apart in the same direction of traffic.

Increasing Log Miles

Decreasing Log Miles

+A Type of reflector marker treatment

STATE OF HAWAII **DEPARTMENT OF TRANSPORTATION** LAND TRANSPORTATION FACILITIES DIVISION

TYPICAL DELINEATION AND PAVEMENT MARKINGS AT BRIDGES

Scale: N.T.S.

OF SHEETS SHEET NO.