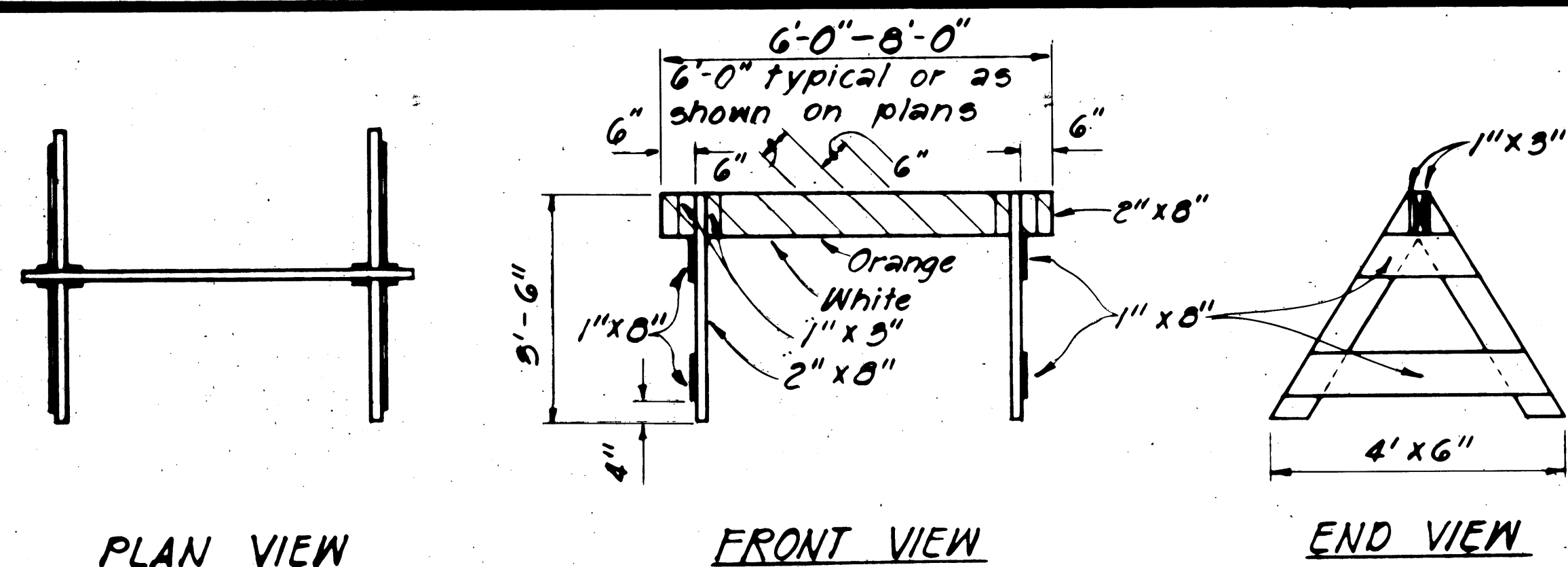
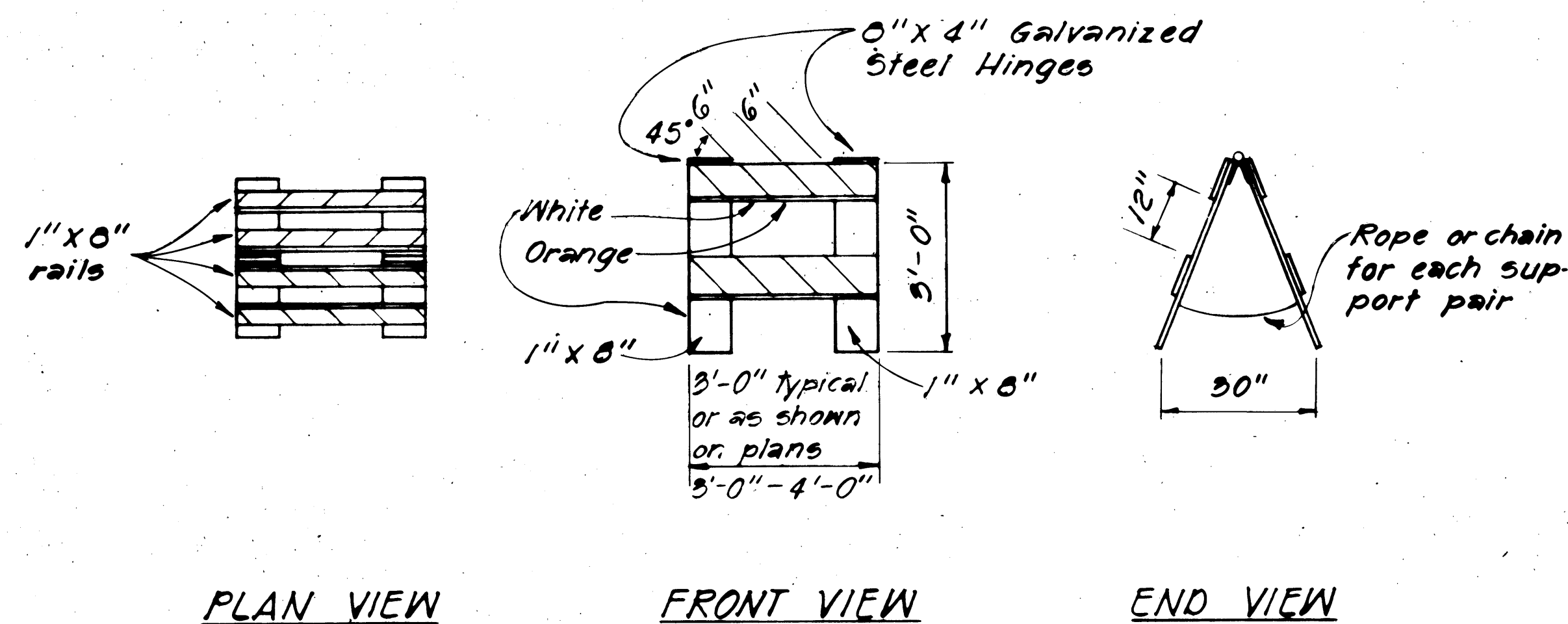


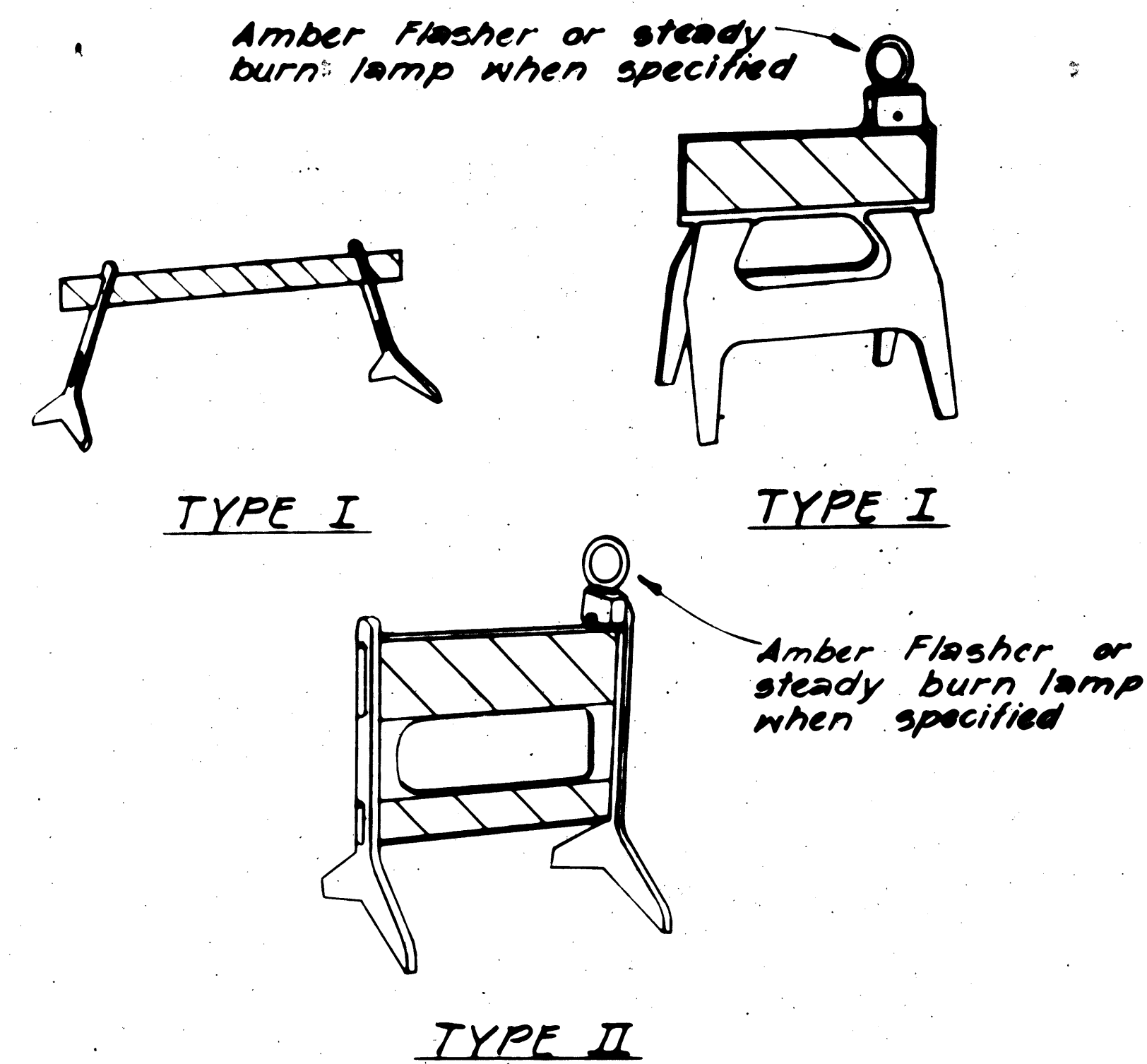
| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 01B0101M  | 1981        | 9         | 14           |



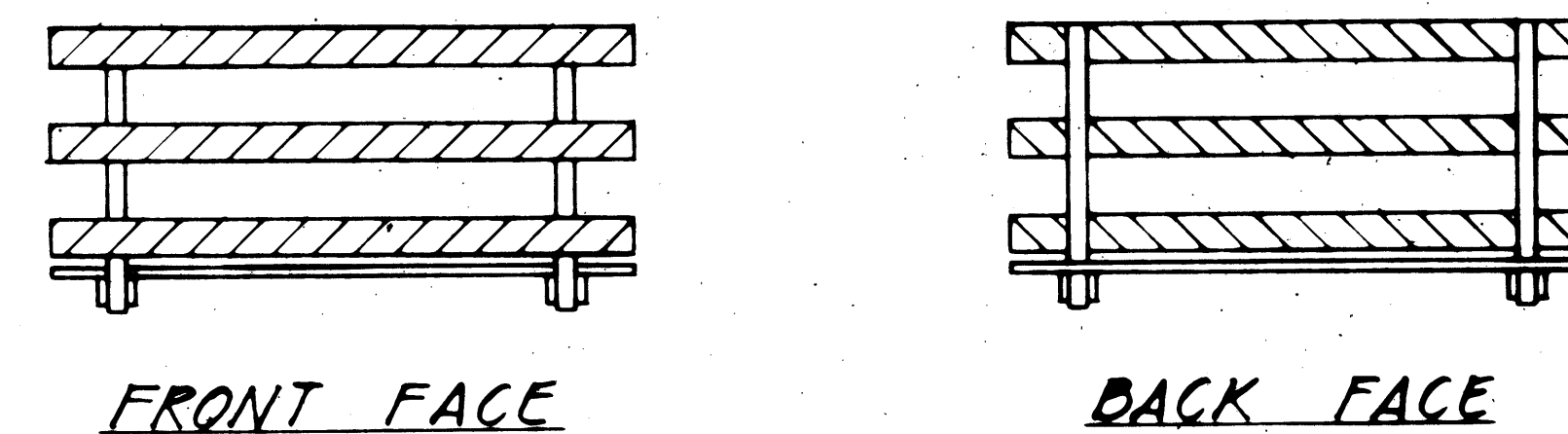
**TYPE I BARRICADE**  
Scale: 1/2" = 1'-0"



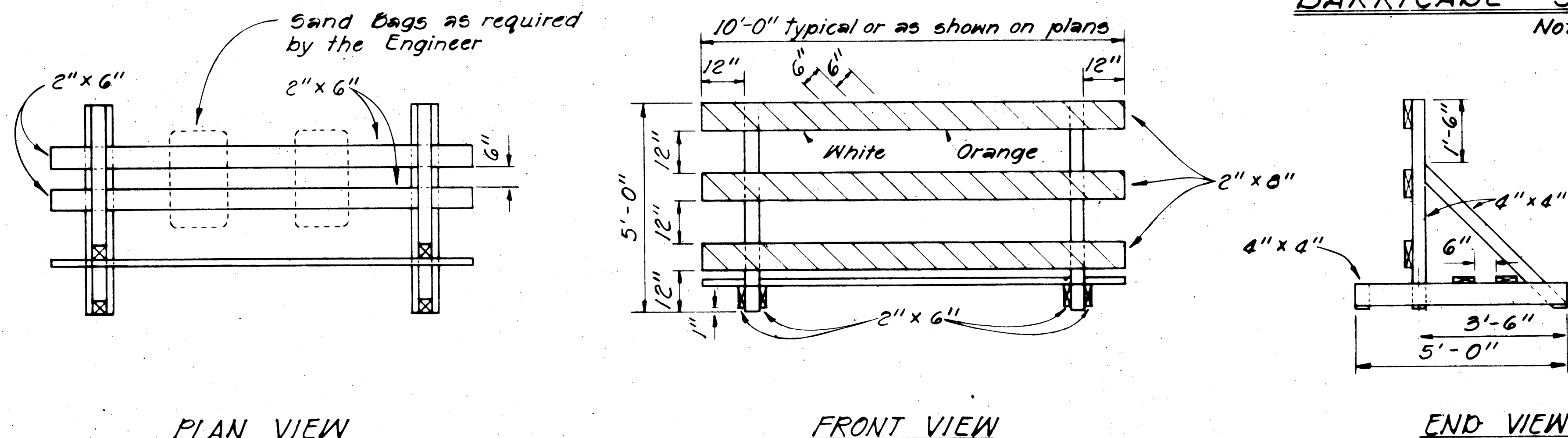
**TYPE II BARRICADE**  
Scale: 1/2" = 1'-0"



**PLASTIC MOLDED BARRICADE OPTIONS \***  
Not to Scale  
\* Shop Drawings must be submitted for approval.



**BARRICADE STRIPING DETAILS**  
Not to Scale



**TYPE III BARRICADE**  
Scale: 1/2" = 1'-0"

## GENERAL NOTES

- The Contractor shall construct, install and maintain the barricades at the locations shown on the Plans, or as when called for.
- The barricades shall be left in place or relocated upon completion of the project as ordered by the Engineer and are to become State property, unless otherwise specified.
- The orange and white stripes shall slant downward toward the side on which traffic is to pass and shall be reflectorized with reflective sheeting.
- Both faces of the barricade rails shall be striped. See Striping Detail Arrangement.
- Contractor may submit alternate designs for approval.
- Barricade details shall conform to the "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, by the Federal Highway Administration and as amended.
- If wooden rails are used, 26 ga. galv. steel sheet shall be first tacked on to the rails and then overlayed with reflective sheeting.

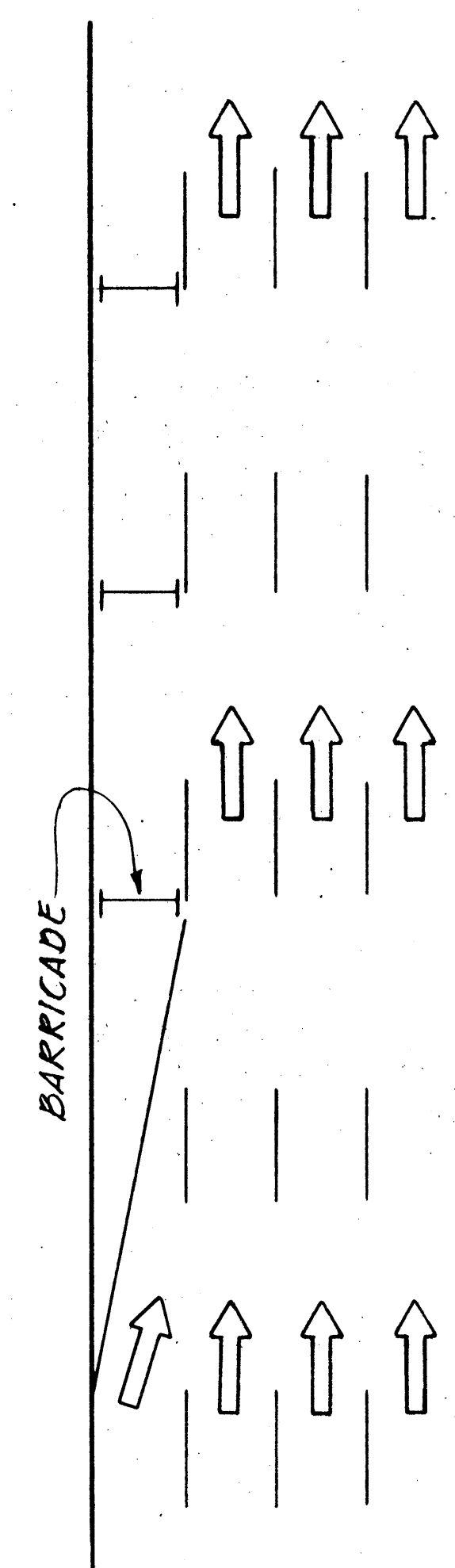
|         |                   |
|---------|-------------------|
| 5/27/81 | Revised Proj. No. |
| DATE    | REVISION          |

|                                                                      |
|----------------------------------------------------------------------|
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION |
| <b>TYPICAL DETAILS</b>                                               |
| <b>BARRICADES</b>                                                    |
| SCALE: As Shown DATE: Apr., 1981                                     |
| SHEET NO. 1 OF 6 SHEETS                                              |

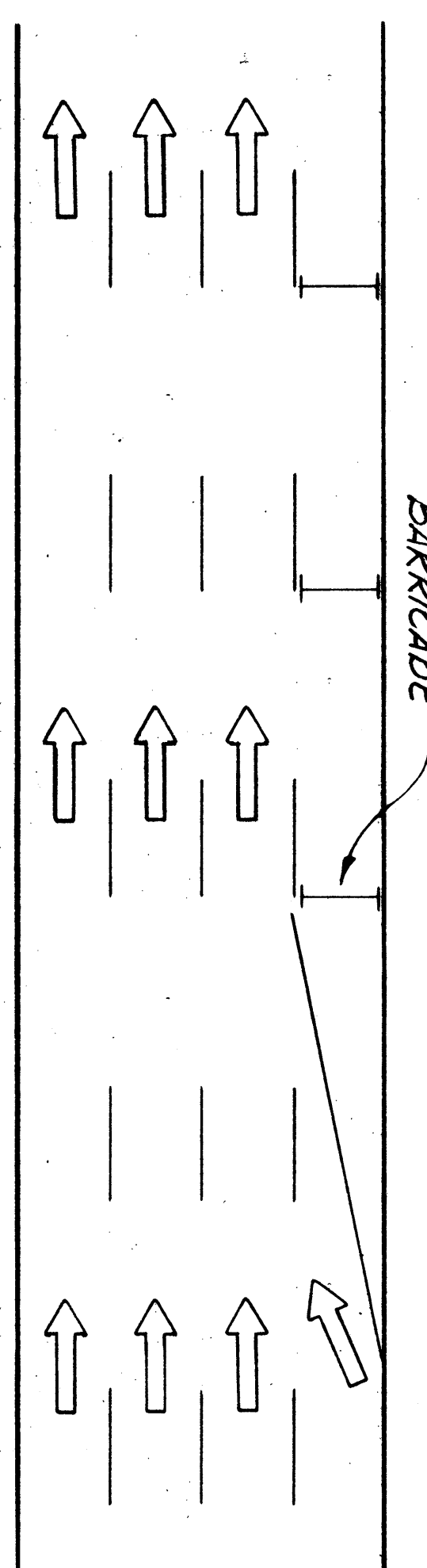
| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 61B01B1M  | 1981        | 10        | 14           |

## GENERAL NOTES

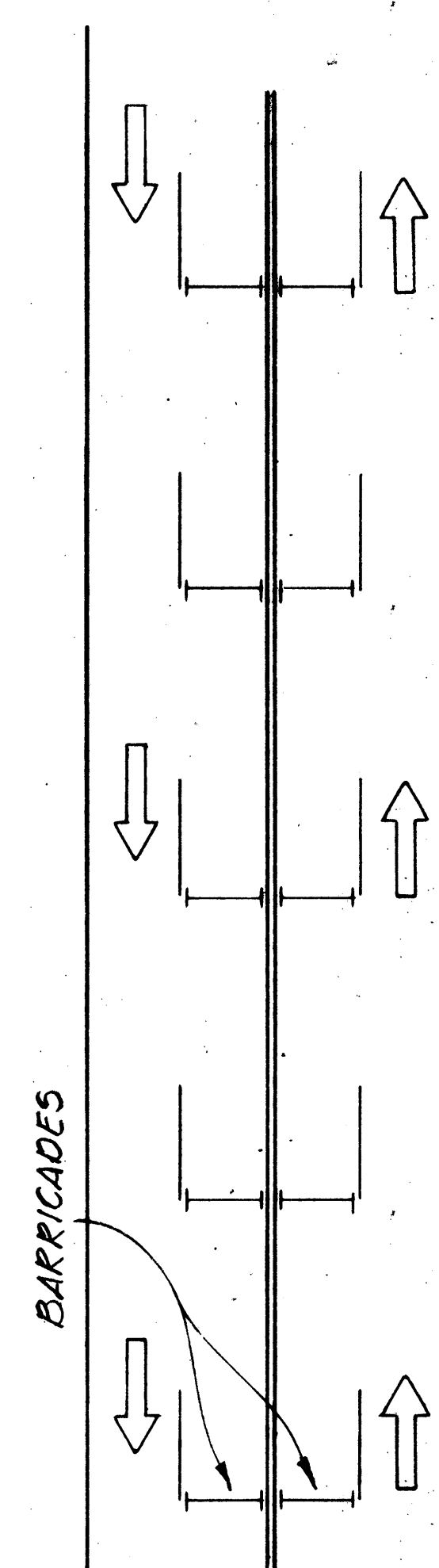
- Barricade Type, Placement, and Arrangement shall be as shown on the Construction Plans or as when called for.



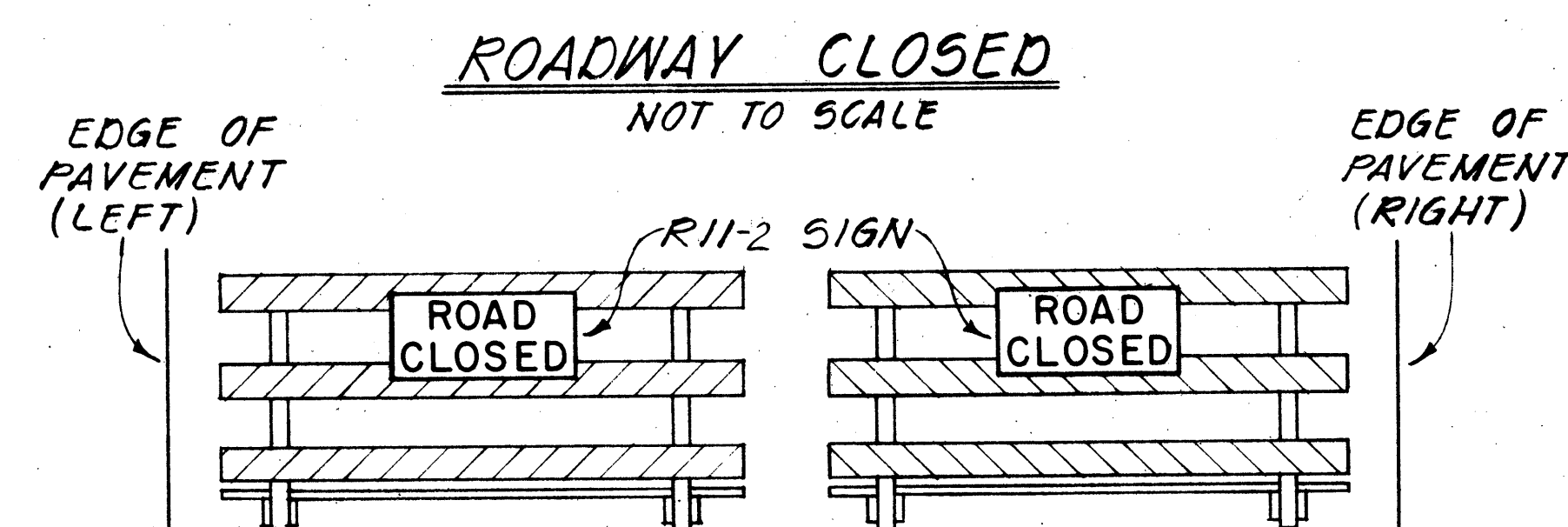
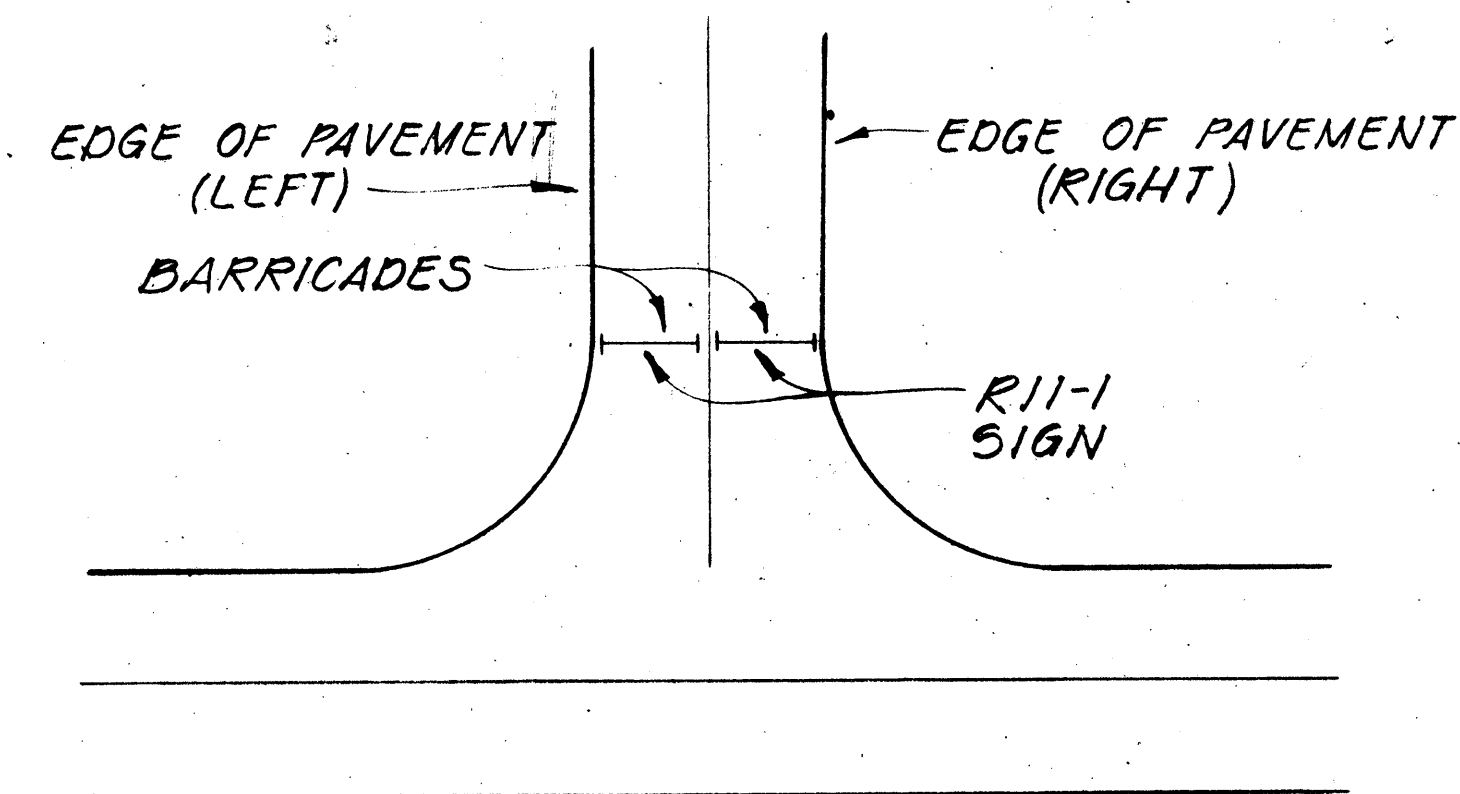
ROADWAY DELINEATION  
TO THE RIGHT  
NOT TO SCALE



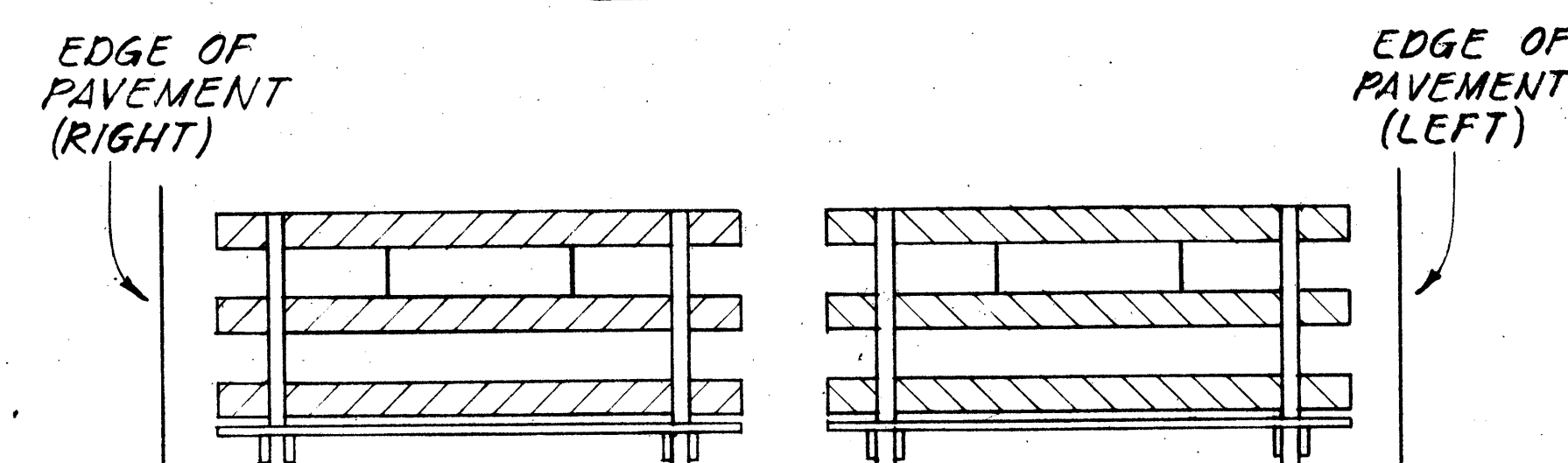
ROADWAY DELINEATION  
TO THE LEFT  
NOT TO SCALE



ROADWAY DELINEATION  
FOR 2-WAY TRAFFIC  
NOT TO SCALE

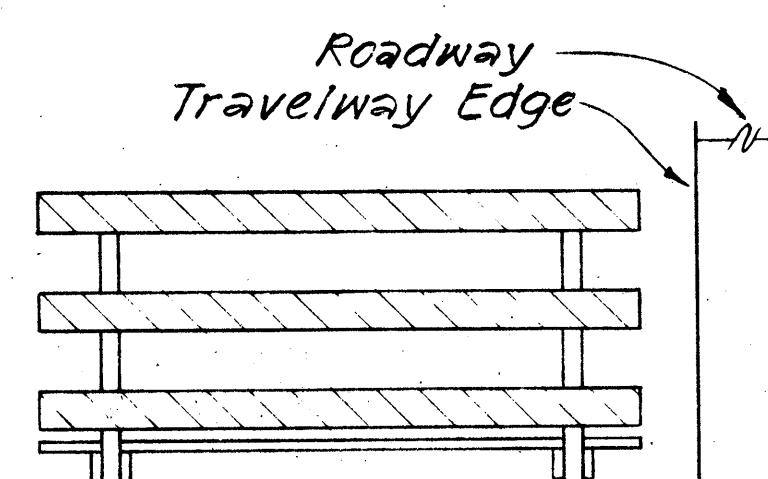


FRONT VIEW

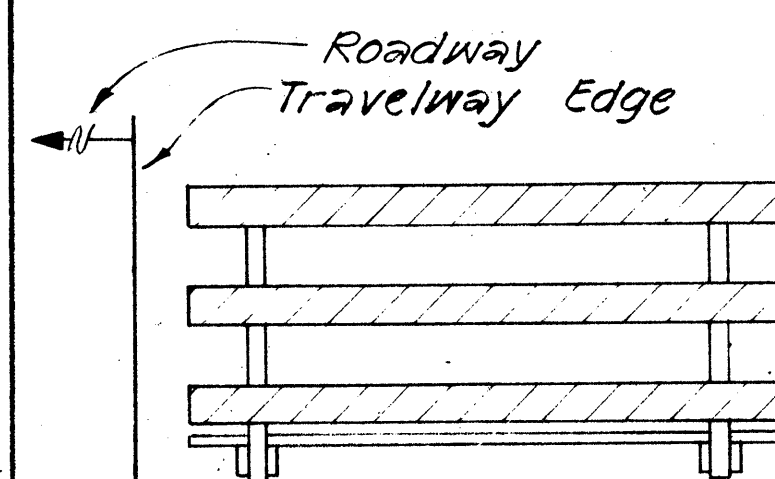


BACK VIEW

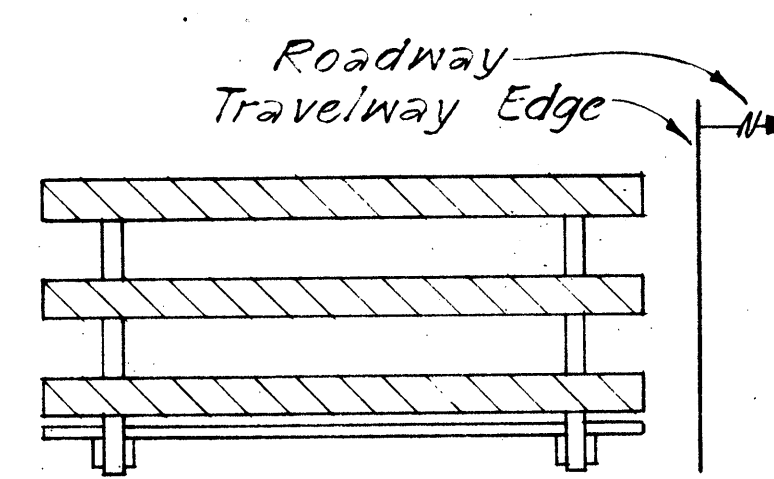
## BARRICADE STRIPING ARRANGEMENT NOT TO SCALE



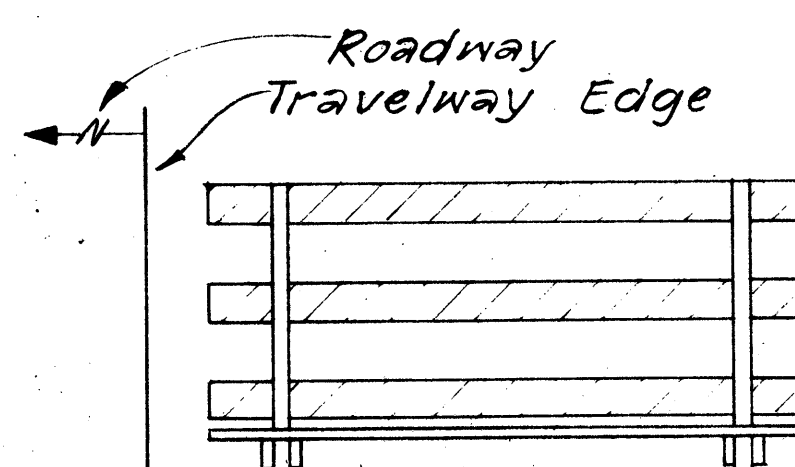
FRONT VIEW



FRONT VIEW

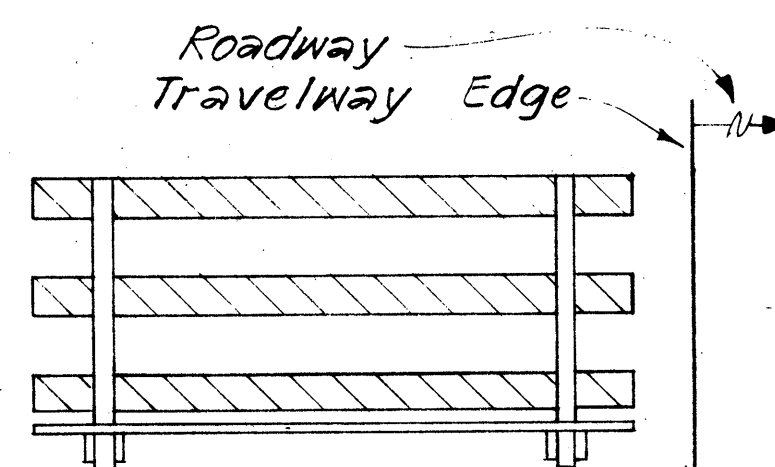


FRONT VIEW



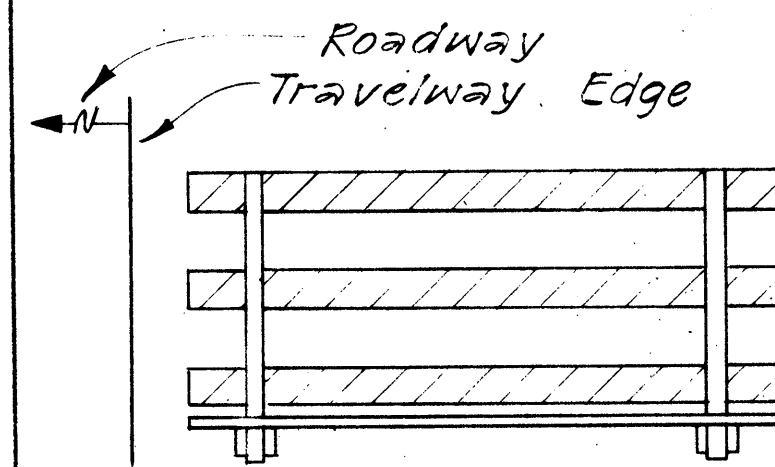
BACK VIEW

BARRICADE STRIPING  
ARRANGEMENT  
NOT TO SCALE



BACK VIEW

BARRICADE STRIPING  
ARRANGEMENT  
NOT TO SCALE



BACK VIEW

BARRICADE STRIPING  
ARRANGEMENT  
NOT TO SCALE

|         |                   |
|---------|-------------------|
| 5/27/81 | Revised Proj. No. |
| DATE    | REVISION          |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

## TYPICAL DETAILS

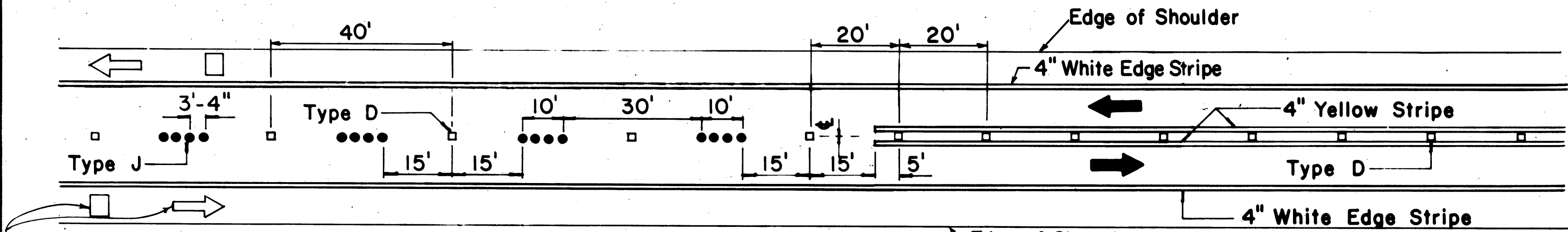
BARRICADE STRIPING DETAILS

SCALE: As Shown DATE: Apr, 1981  
SHEET NO. 2 OF 6 SHEETS

ADD10

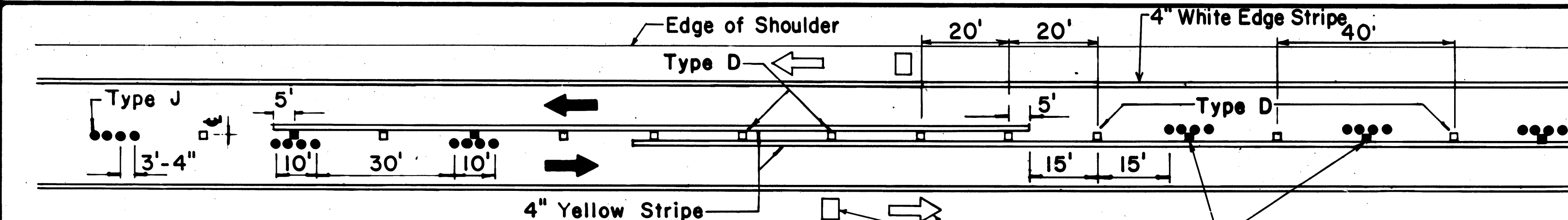
|                   |  |
|-------------------|--|
| DATE              |  |
| SURVEY PLANNED BY |  |
| DRAWN BY          |  |
| TRACED BY         |  |
| NOTED BY          |  |
| CHECKED BY        |  |
| ORIGINAL PLAN     |  |
| NOTE BOOK         |  |
| NO.               |  |

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 61B-01BIM | 1981        | 11        | 14           |



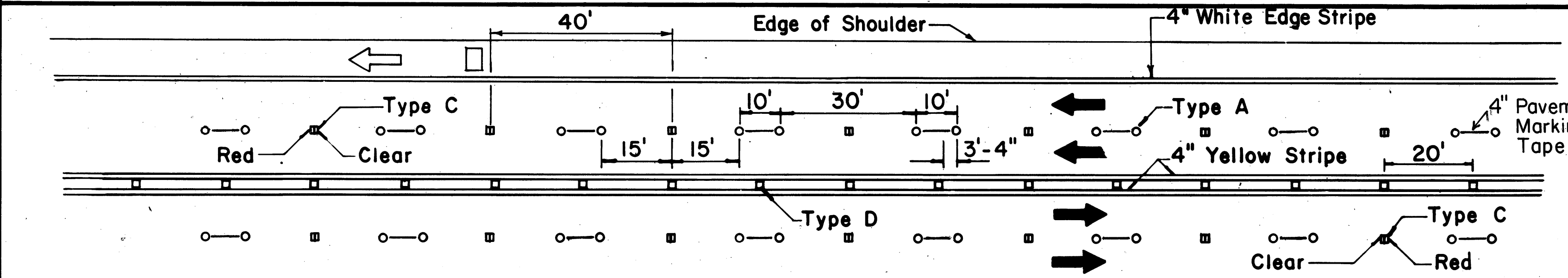
Pavement Symbols, Words, Arrows, and Legends for Bike Route as Required on Plans.

## PASSING PERMITTED AND PASSING PROHIBITED

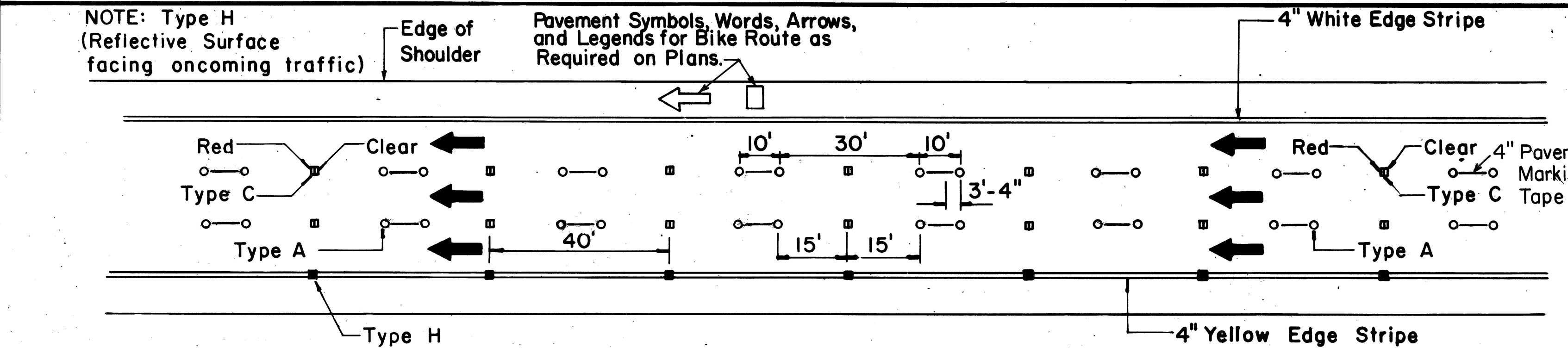


Pavement Symbols, Words, Arrows, and Legends for Bike Route as Required on Plans.

## PASSING PROHIBITED ZONES

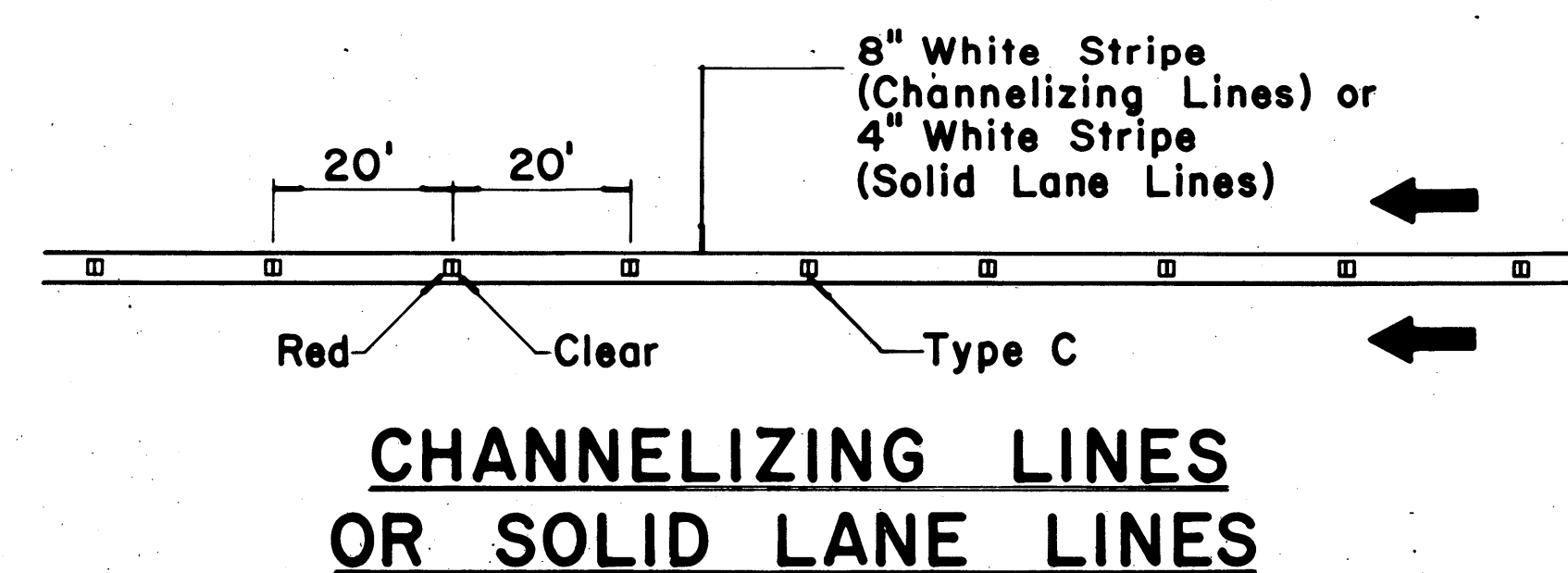


Pavement Symbols, Words, Arrows, and Legends for Bike Route as Required on Plans.

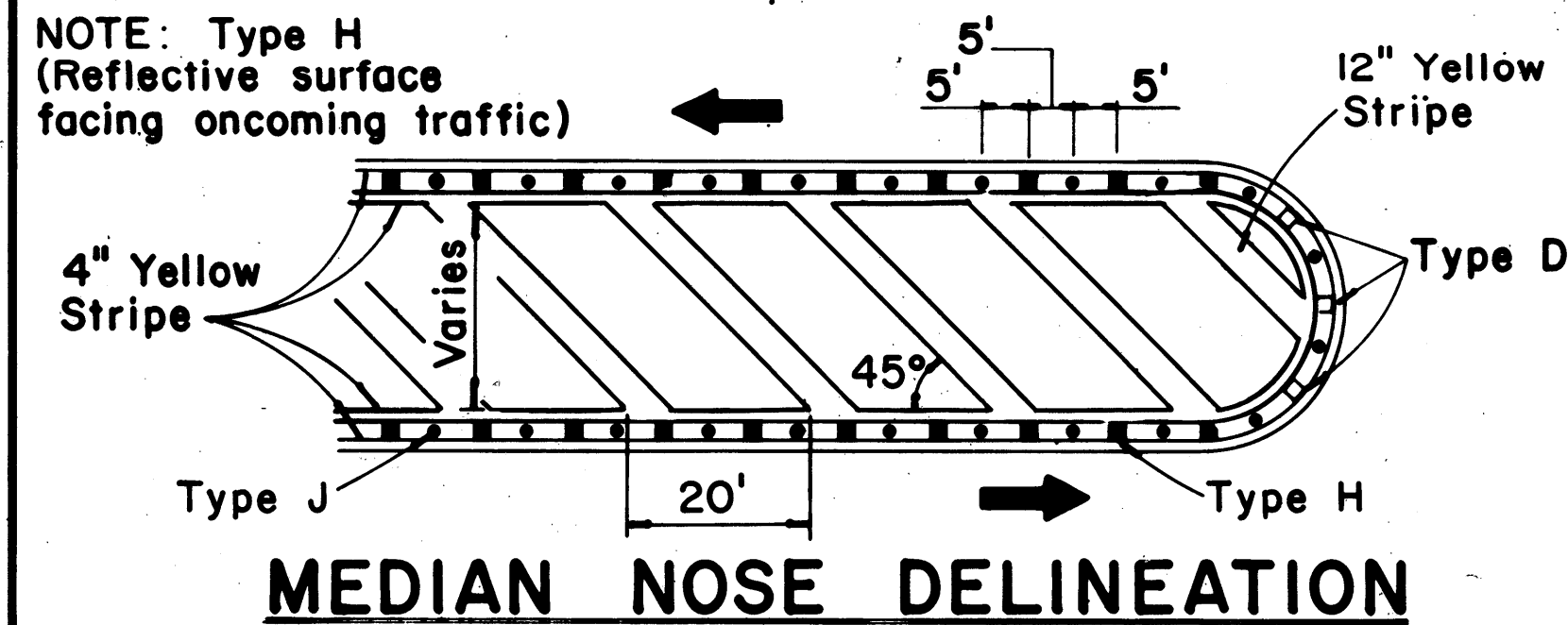


NOTE: Type H (Reflective Surface facing oncoming traffic)

Pavement Symbols, Words, Arrows, and Legends for Bike Route as Required on Plans.



## CHANNELIZING LINES OR SOLID LANE LINES



NOTE: Type H (Reflective surface facing oncoming traffic)

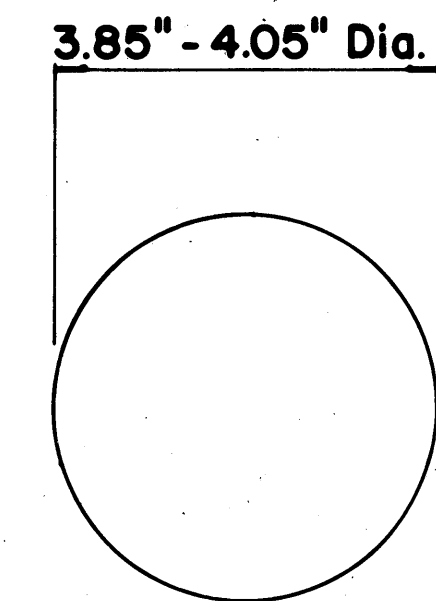
## MEDIAN NOSE DELINEATION

TWO - LANE

MULTI - LANE

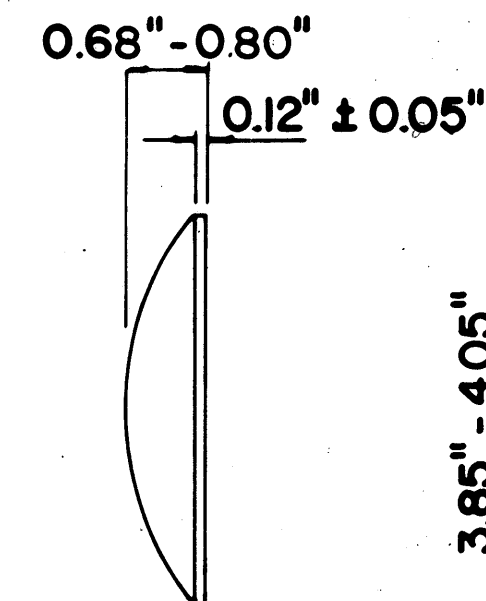
DIVIDED HIGHWAY AND FREEWAY

MISCELLANEOUS



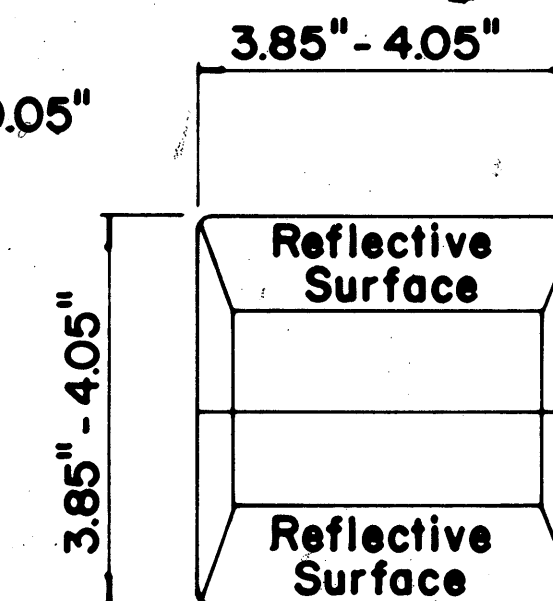
## TYPE A

NON-REFLECTIVE WHITE MARKER



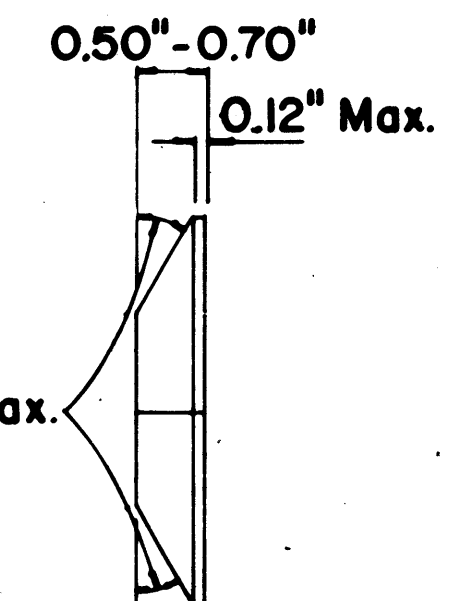
## TYPE J

NON-REFLECTIVE YELLOW MARKER



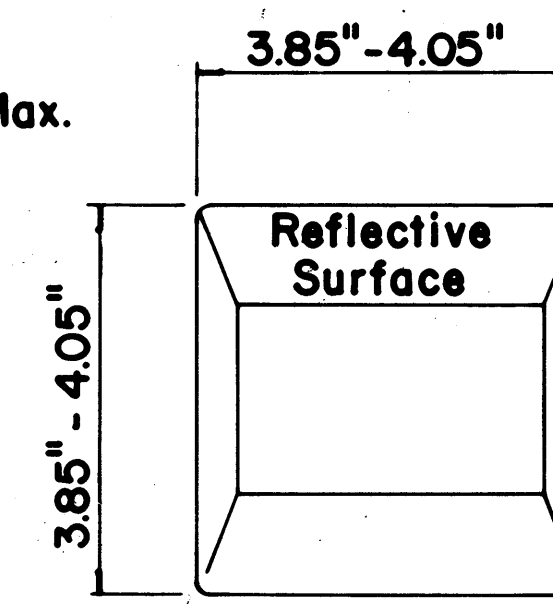
## TYPE C

RED-CLEAR REFLECTIVE MARKER



## TYPE 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

SUPERSEDES SHEET DT 300

|         |                   |
|---------|-------------------|
| 5/27/81 | Revised Proj. No. |
| DATE    | REVISION          |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

## TYPICAL DETAILS RAISED PAVEMENT MARKERS AND STRIPING

Not to Scale July 1978

SHEET No. 3 OF 6 SHEETS

ADDIT

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| DESIGNED 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.  | 0180181M  | 1981        | 12        | 14           |



CW20-1a 48" x 48"



CW20-2d 48" x 48"



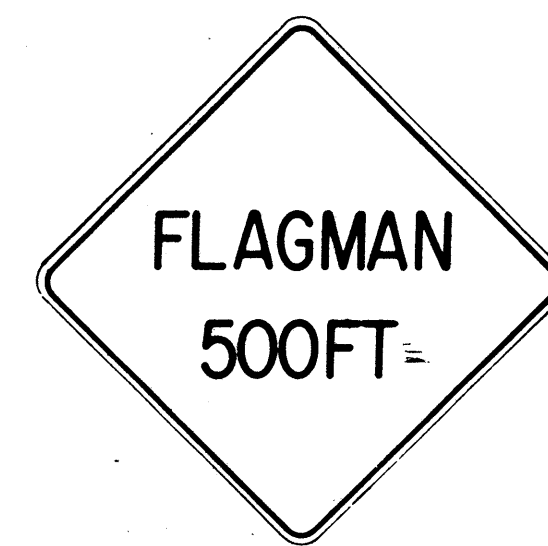
CW20-3b 48" x 48"



CW20-4d 48" x 48"



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



CW20-7c 48" x 48"



CW21-1 30" x 30"



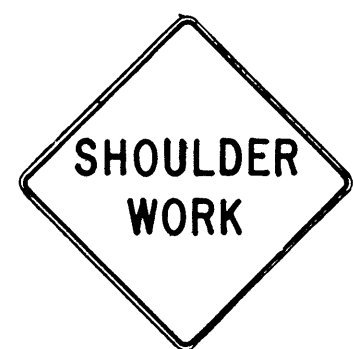
CW21-2 30" x 30"



CW21-3 36" x 36"



CW21-4 36" x 36"



CW21-5 30" x 30"



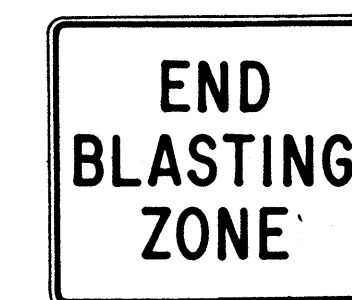
CW21-6 30" x 30"



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"



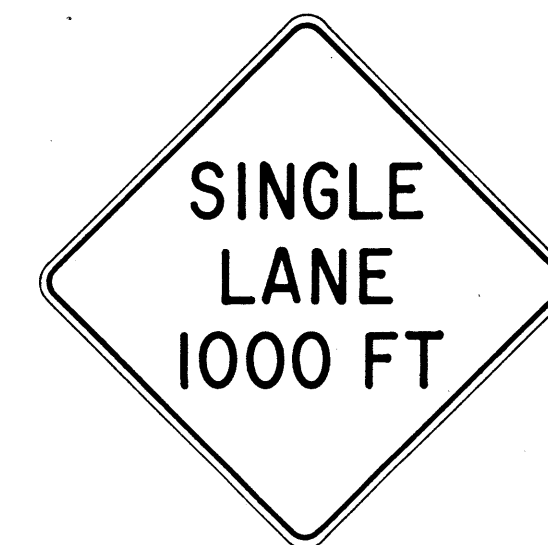
CM4-10(R) 48" x 18"



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  $\frac{3}{8}$ " 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.T.        | 3/23/72  |
| 2   | Revised General Note 1                    | H.T.        | 10/16/74 |
| 3   | Revised General Note 2                    | M.H.        | 9-16-75  |
| 4   | Revised General Note 2 and sign CG20-1(5) | H.T.        | 9-14-76  |

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

APPROVED:  
Arthur Sakai 3/23/72  
ASSISTANT CHIEF, ENGINEERING DATE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

STANDARD DETAILS  
CONSTRUCTION SIGNS

NOT TO SCALE

SHEET No. 4 OF 6 SHEETS DT 104

|         |                   |
|---------|-------------------|
| 5/27/81 | Revised Proj. No. |
| DATE    | REVISION          |

|           |                   |      |
|-----------|-------------------|------|
| ORIGINAL  | SURVEY PLOTTED BY | DATE |
| PLAN      | DRAWN BY          |      |
| NOTE BOOK | DESIGNED BY       |      |
|           | QUANTITIES BY     |      |
|           | CHECKED BY        |      |
| No.       |                   |      |

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 0130181M  | 1981        | 13        | 14           |

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.

|         |                   |
|---------|-------------------|
| 5/27/81 | Revised Proj. No. |
| DATE    | REVISION          |

APPROVAL RECOMMENDED: Eishi Tanaka 5/2/78  
 TRAFFIC ENGINEER DATE

APPROVED: Herbert Z. Zaksch 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

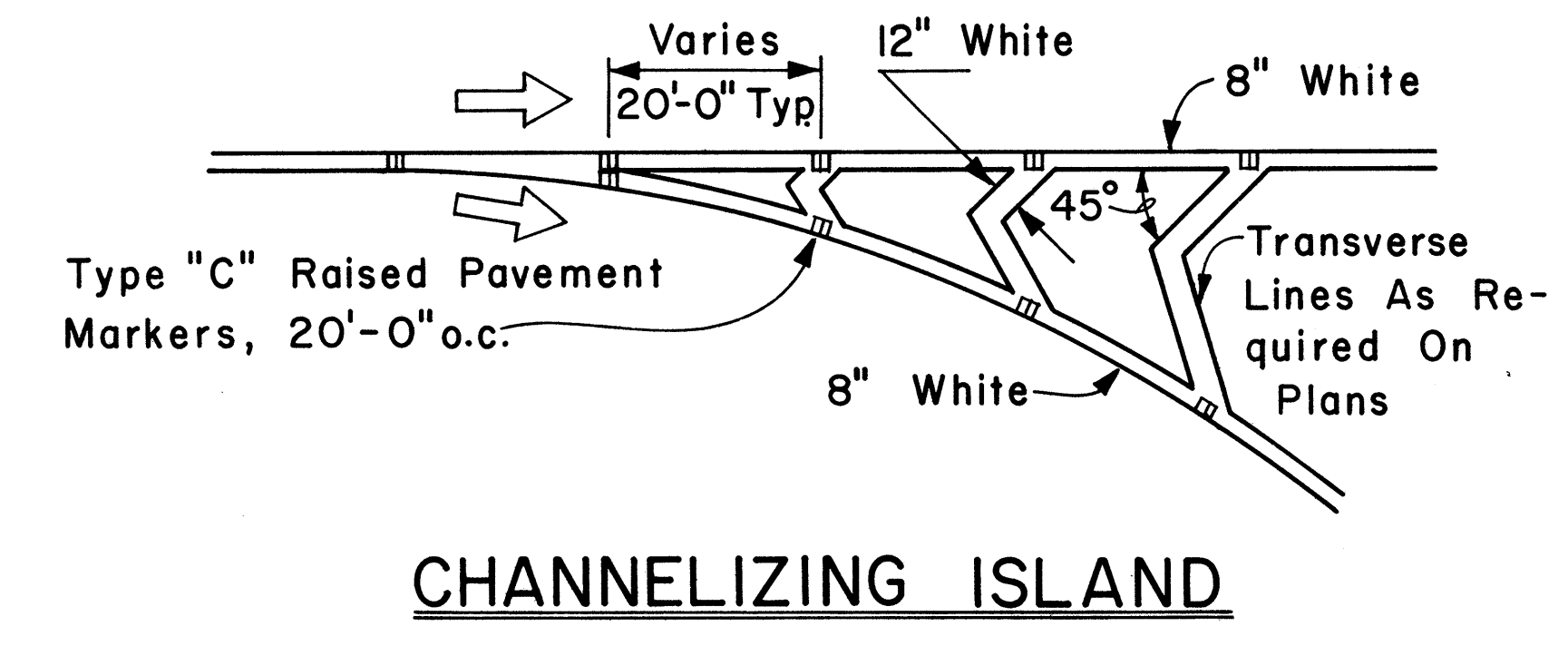
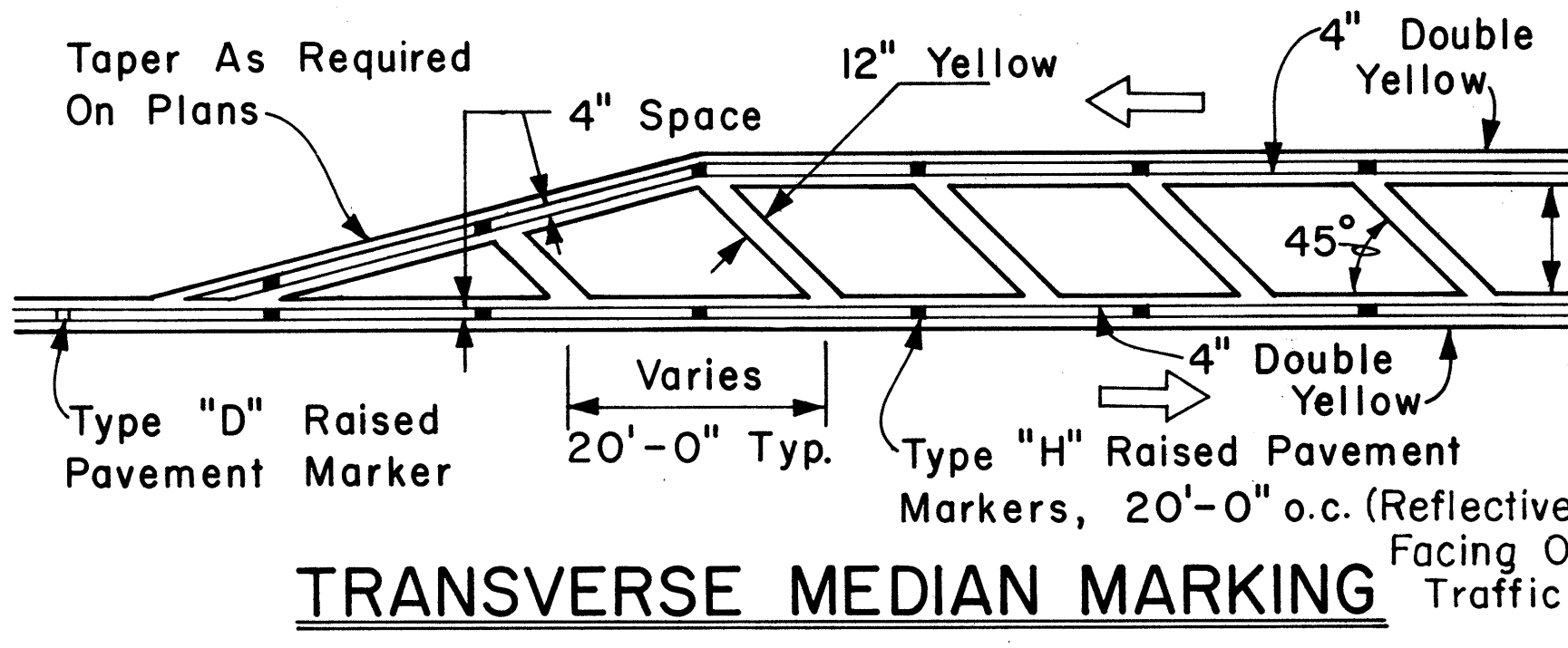
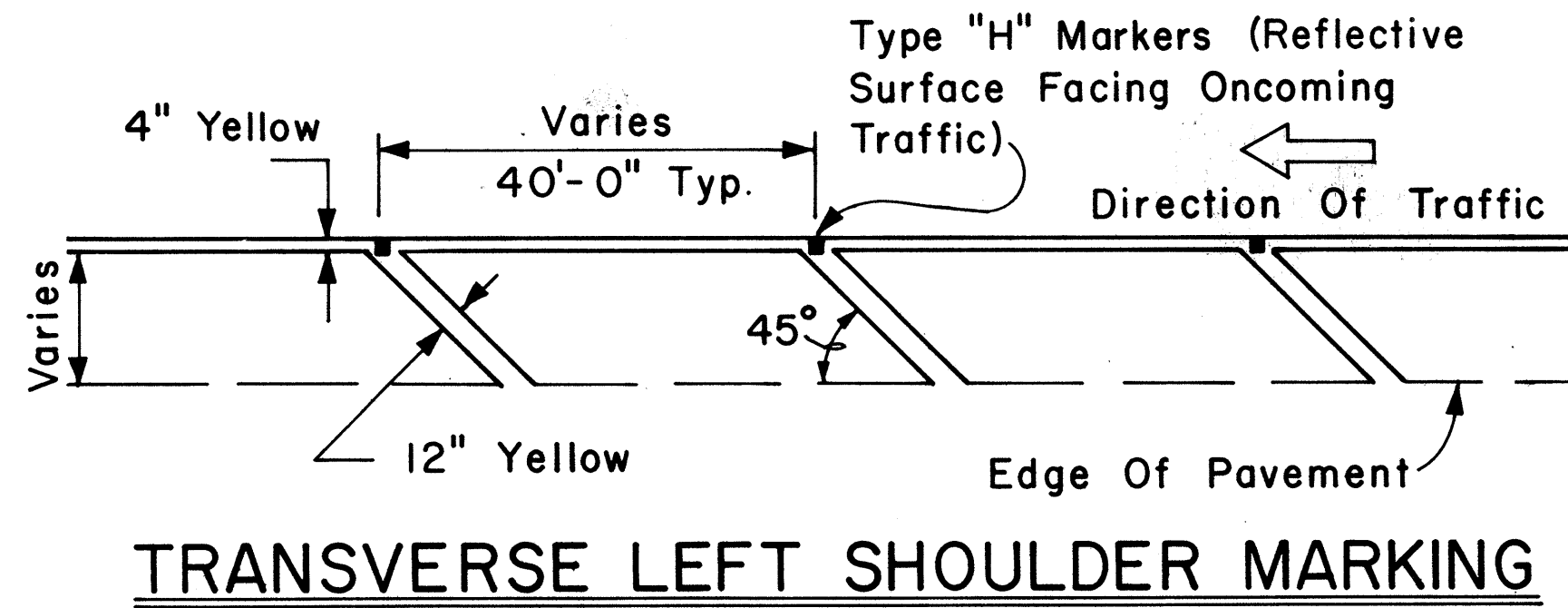
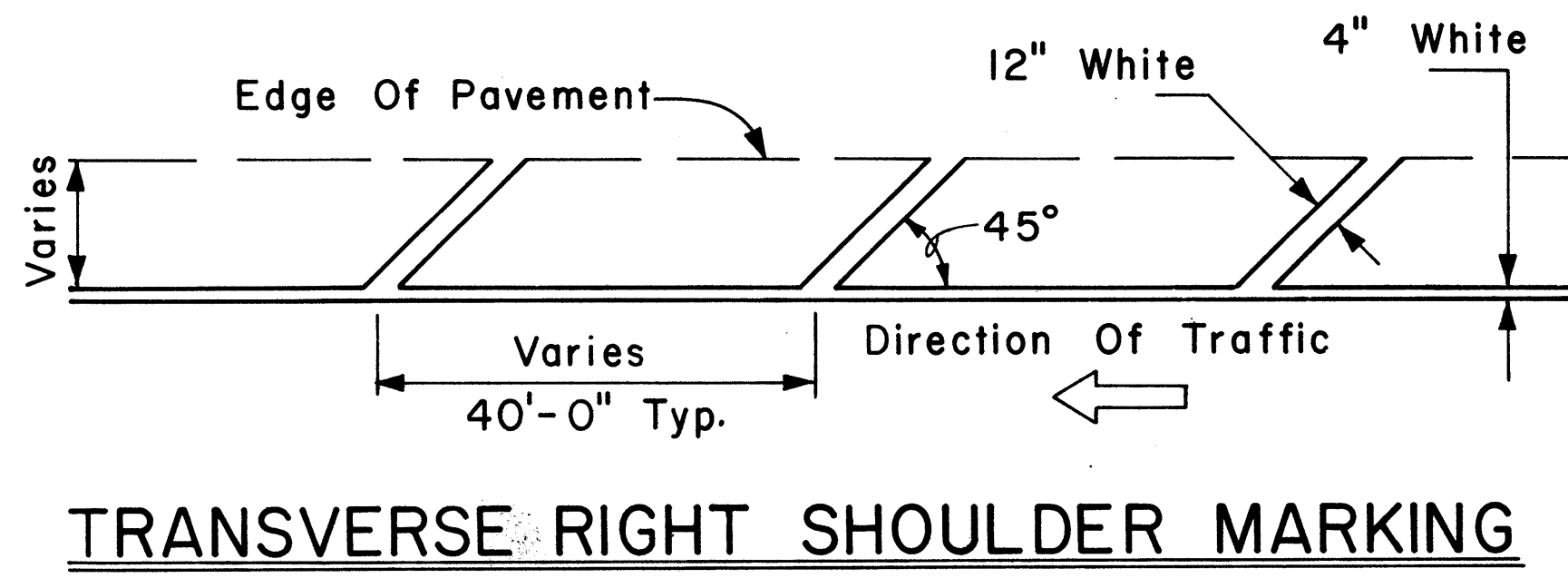
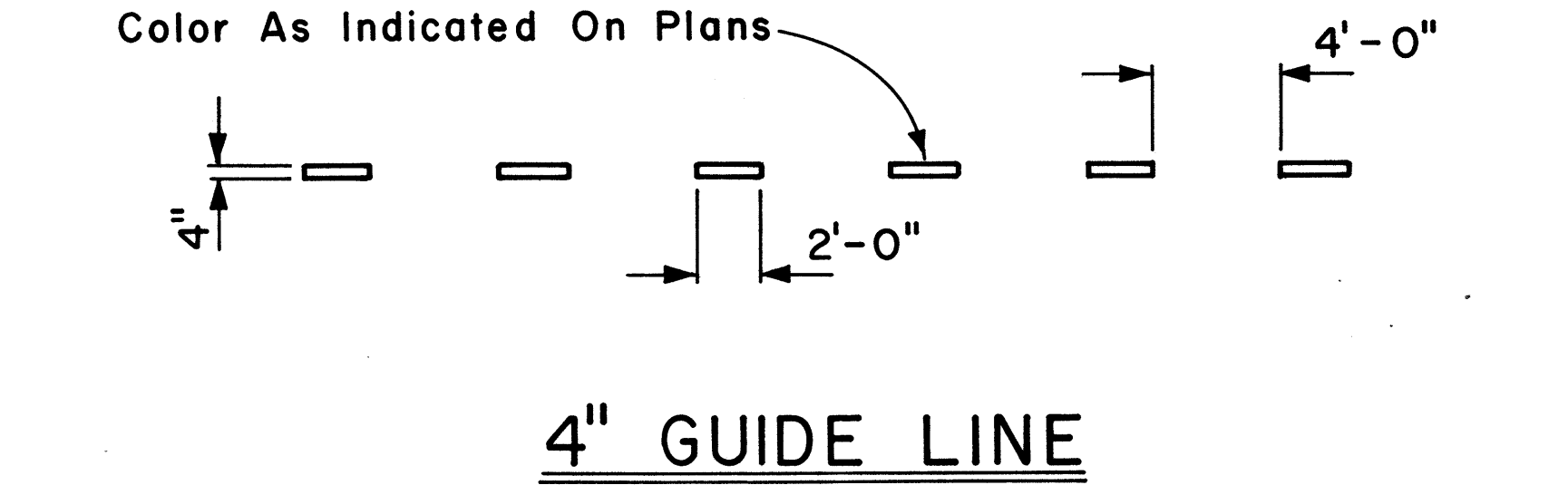
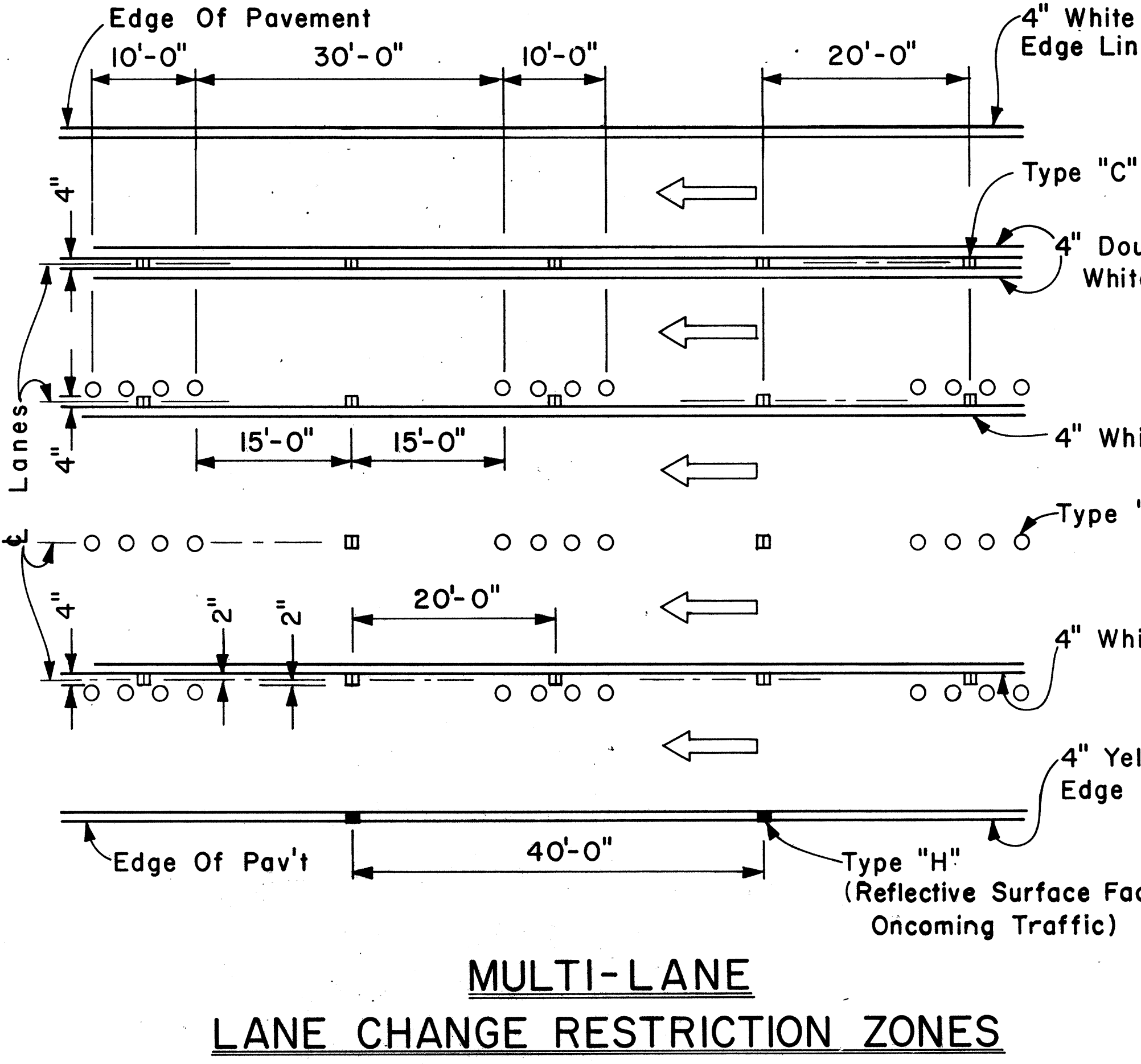
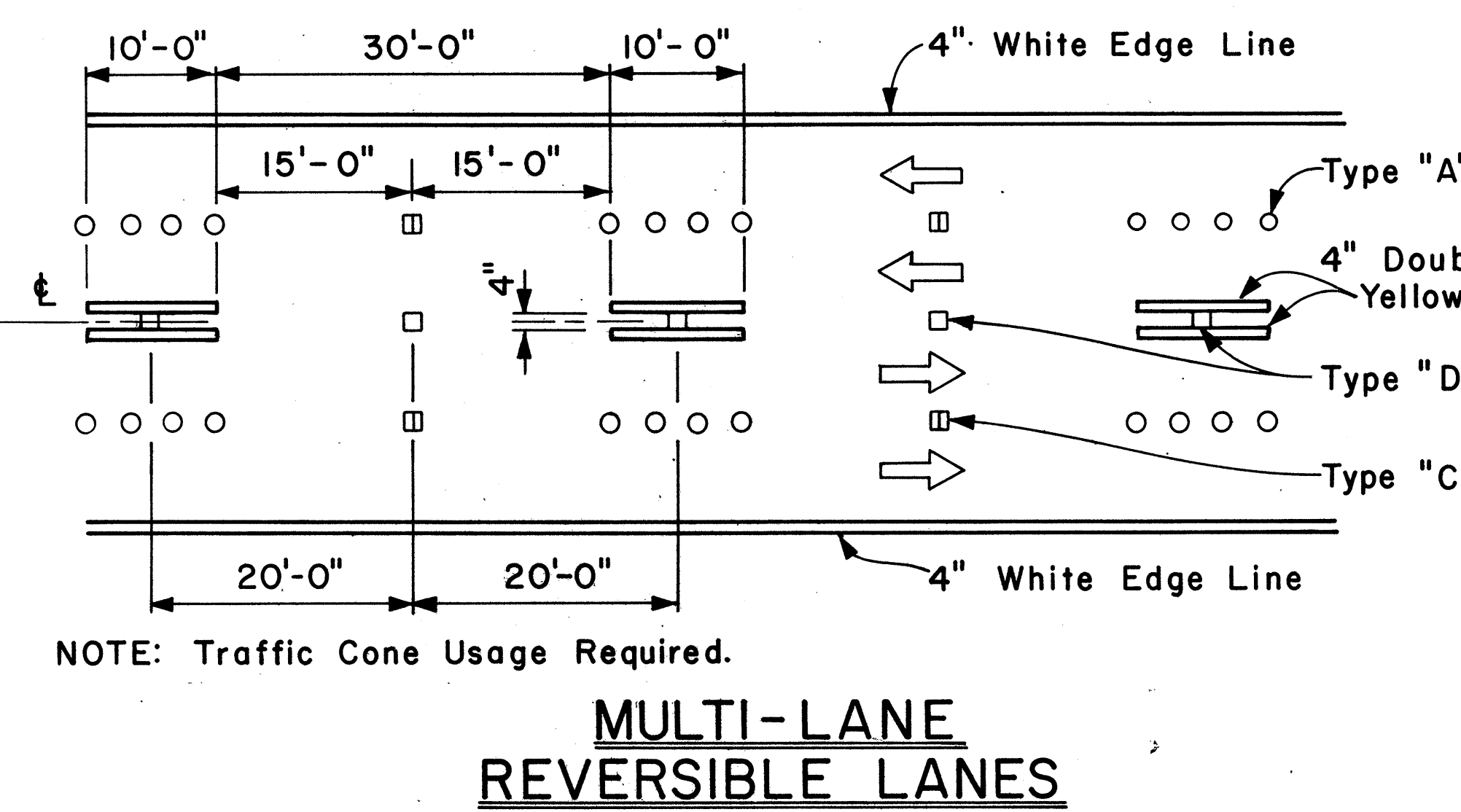
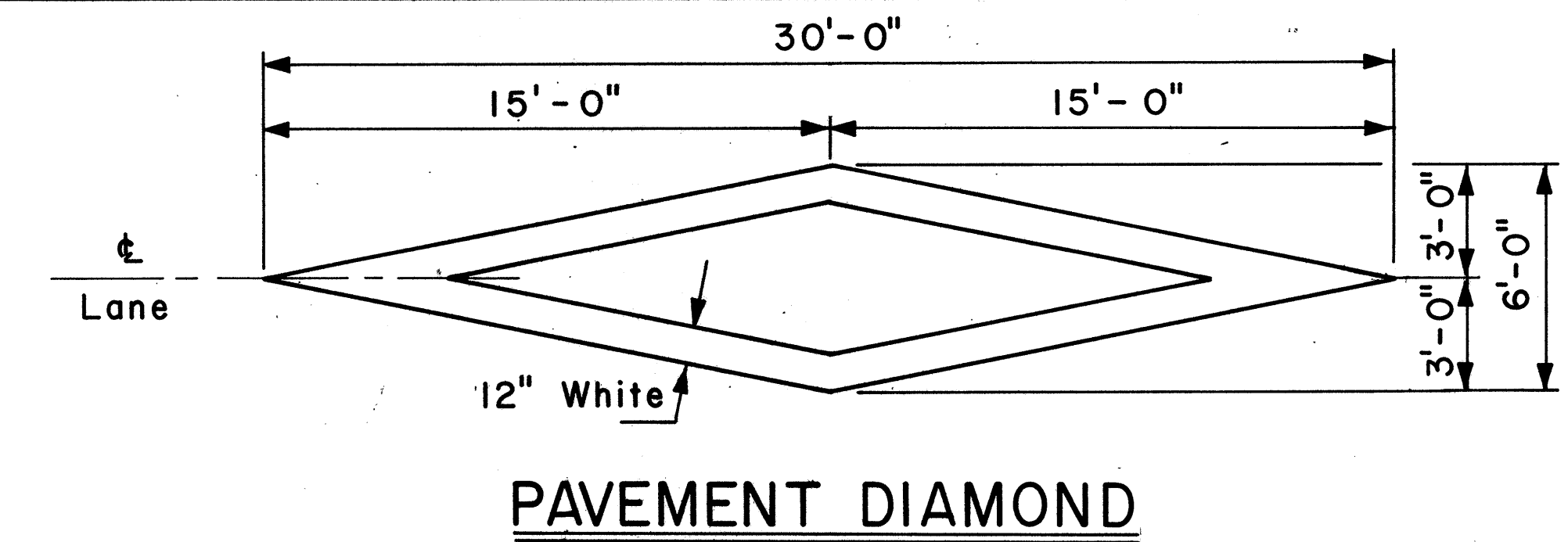
PAVEMENT MARKINGS

Scale: Not to Scale

Date: April, 1978

SHEET NO. 5 OF 6

SHEETS DT 302



|               |                   |      |
|---------------|-------------------|------|
| ORIGINAL PLAN | SURVEY PLOTTED BY | DATE |
| DRAWN BY      | DESIGNED BY       |      |
| NOTE BOOK     | QUANTITIES BY     |      |
| NO.           | CHECKED BY        |      |

| FED. ROAD DIST. NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|-----------|-------------|-----------|--------------|
| HAWAII              | HAW.  | 51B01B1M  | 1981        | 14        | 14           |

# 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.

TAPERED DECELERATION LANE

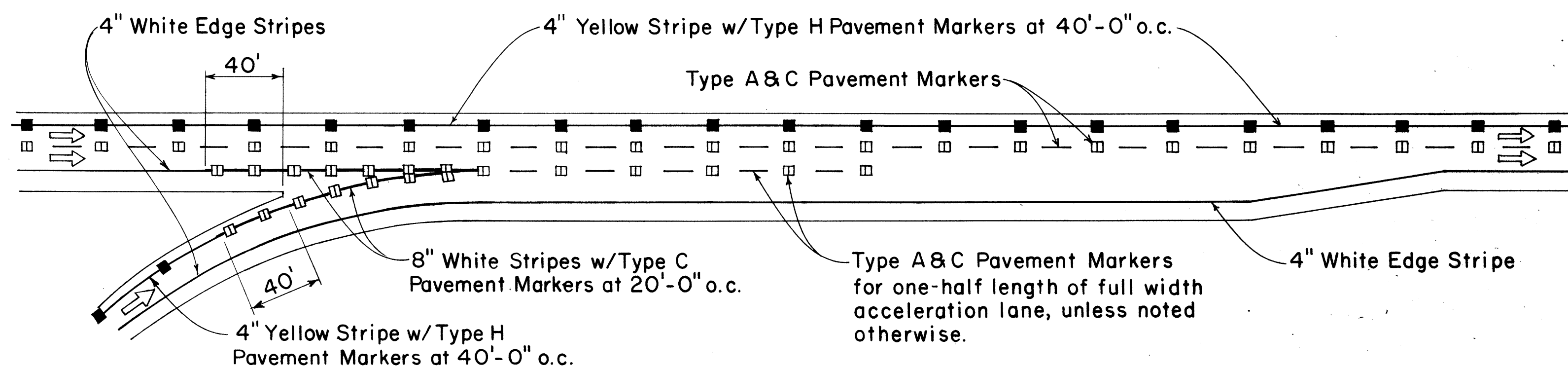
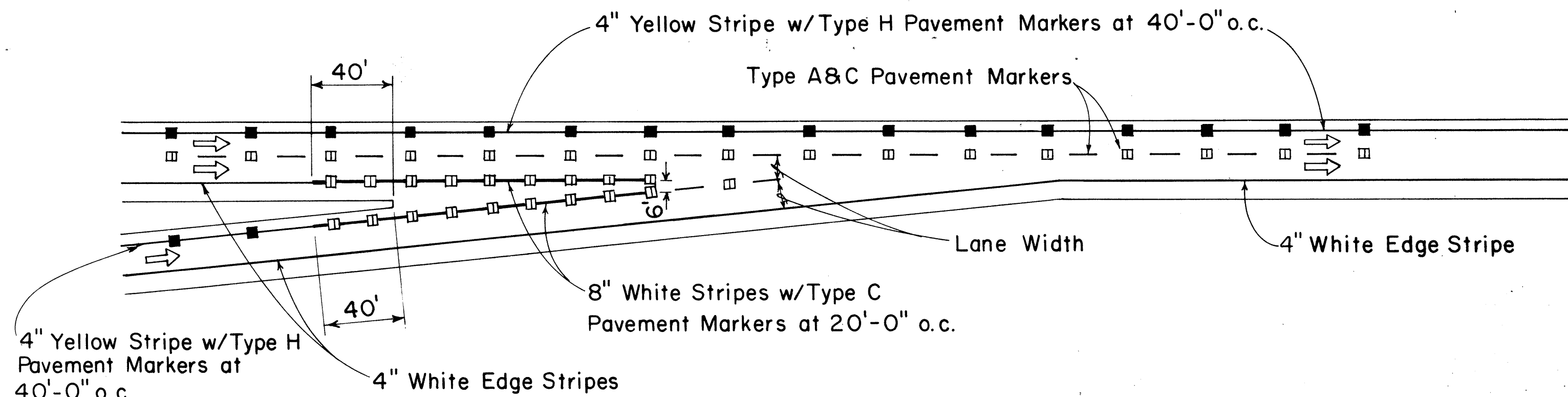
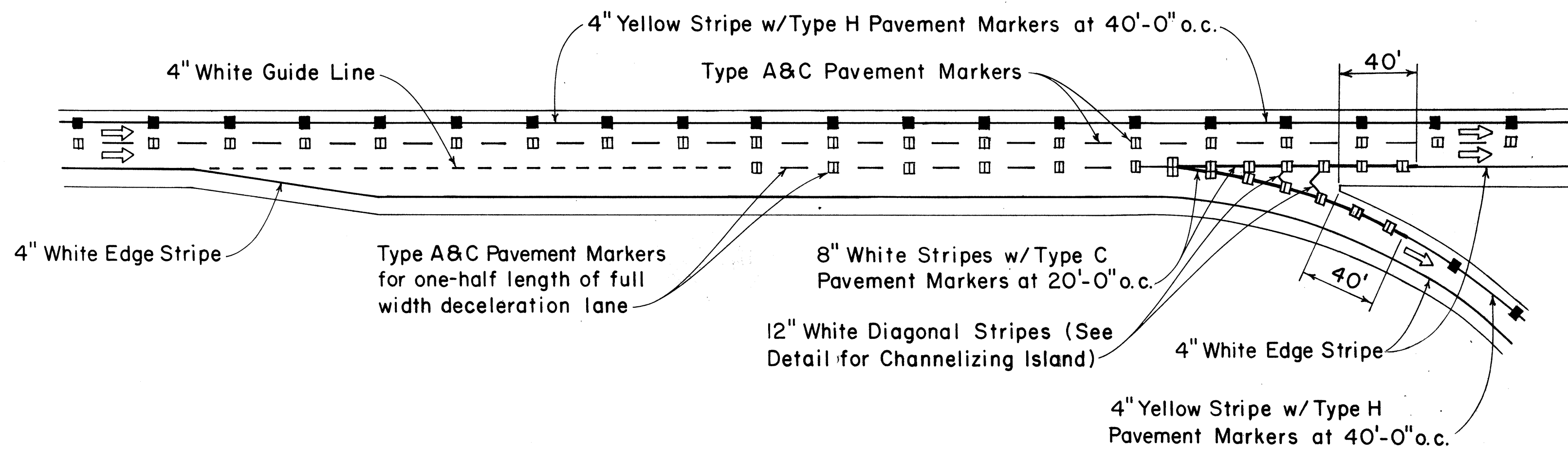
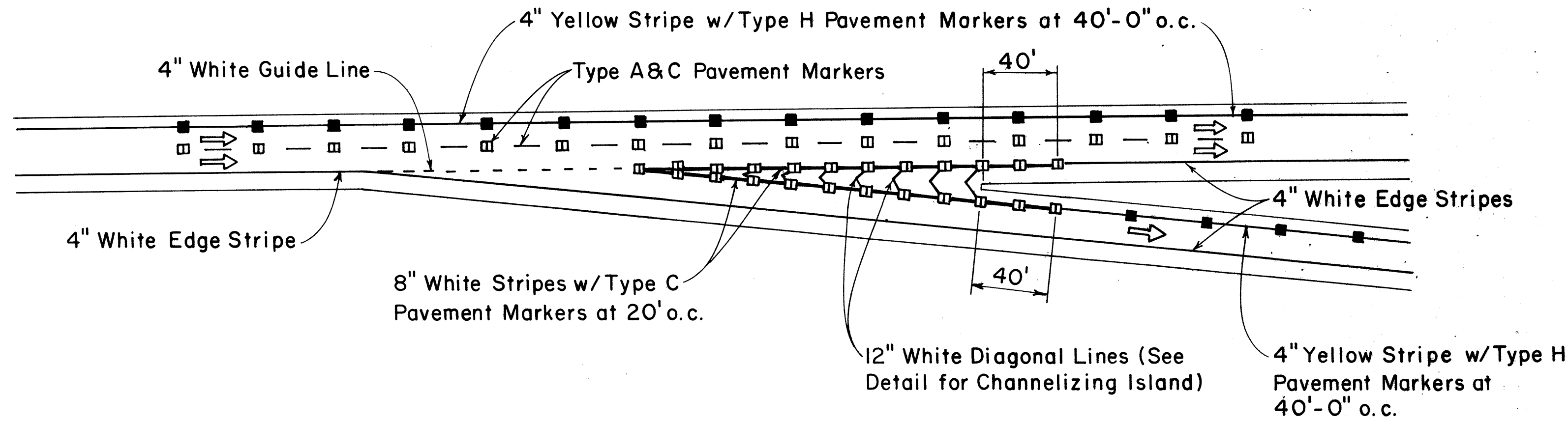
PARALLEL DECELERATION LANE

TAPERED ACCELERATION LANE

PARALLEL ACCELERATION LANE

TYPICAL ROADWAY EXIT MARKINGS

TYPICAL ROADWAY ENTRANCE MARKINGS



|         |                   |
|---------|-------------------|
| 5/27/81 | Revised Proj. No. |
| DATE    | REVISION          |

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

APPROVED:  
*Robert B. Zaleski* 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 July 1978  
 SHEET NO. 6 OF 6 SHEETS DT 304