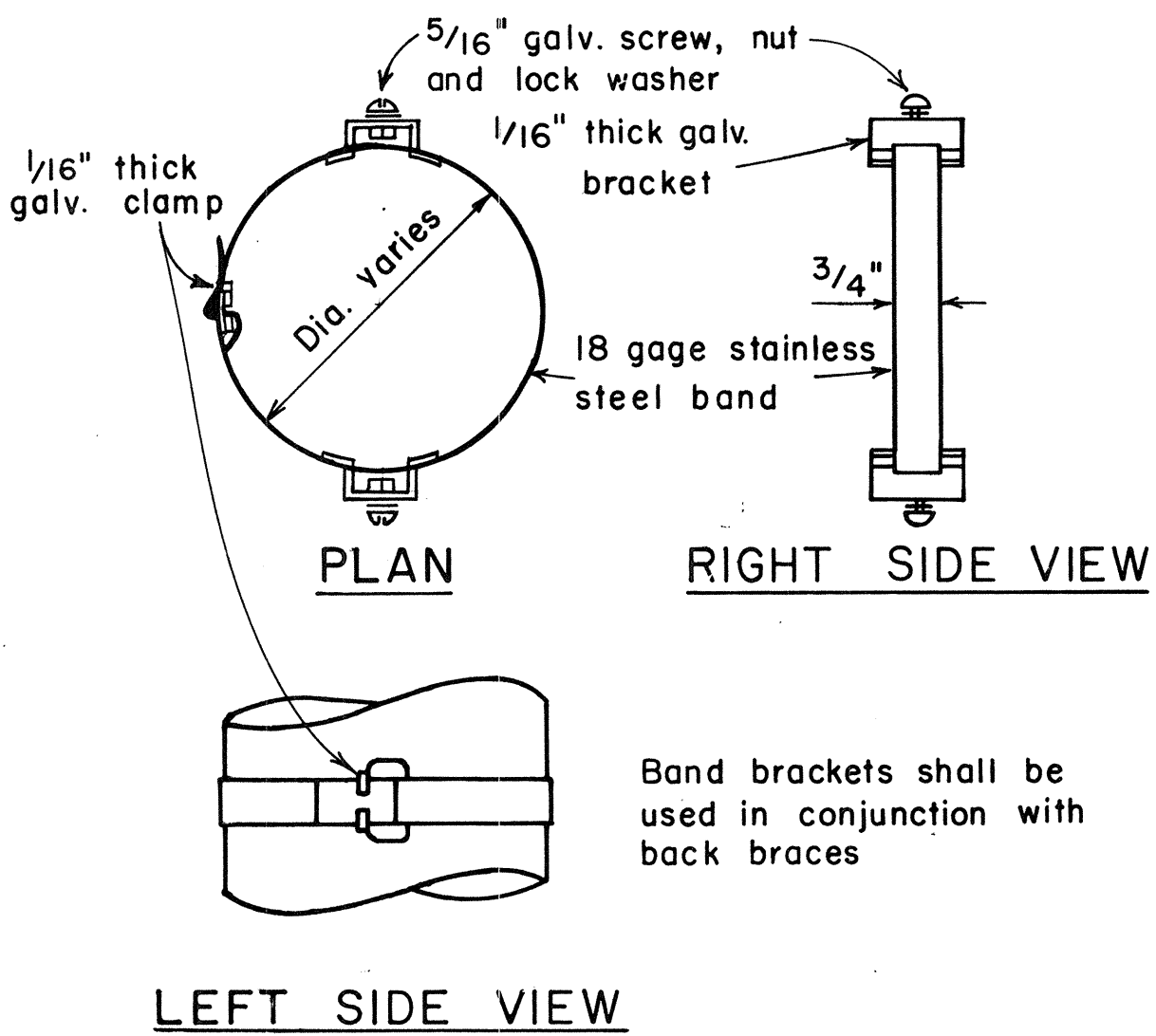
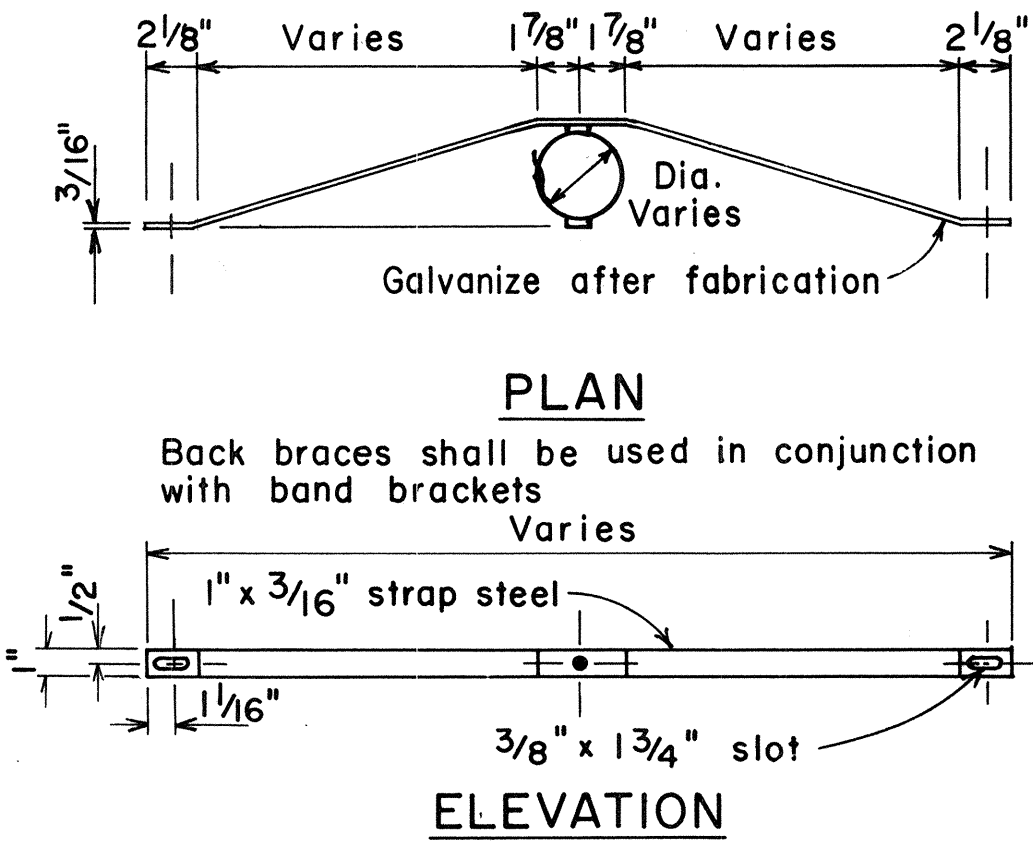


| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HHS-092-1(12)      | 1970        | 32        | 50           |

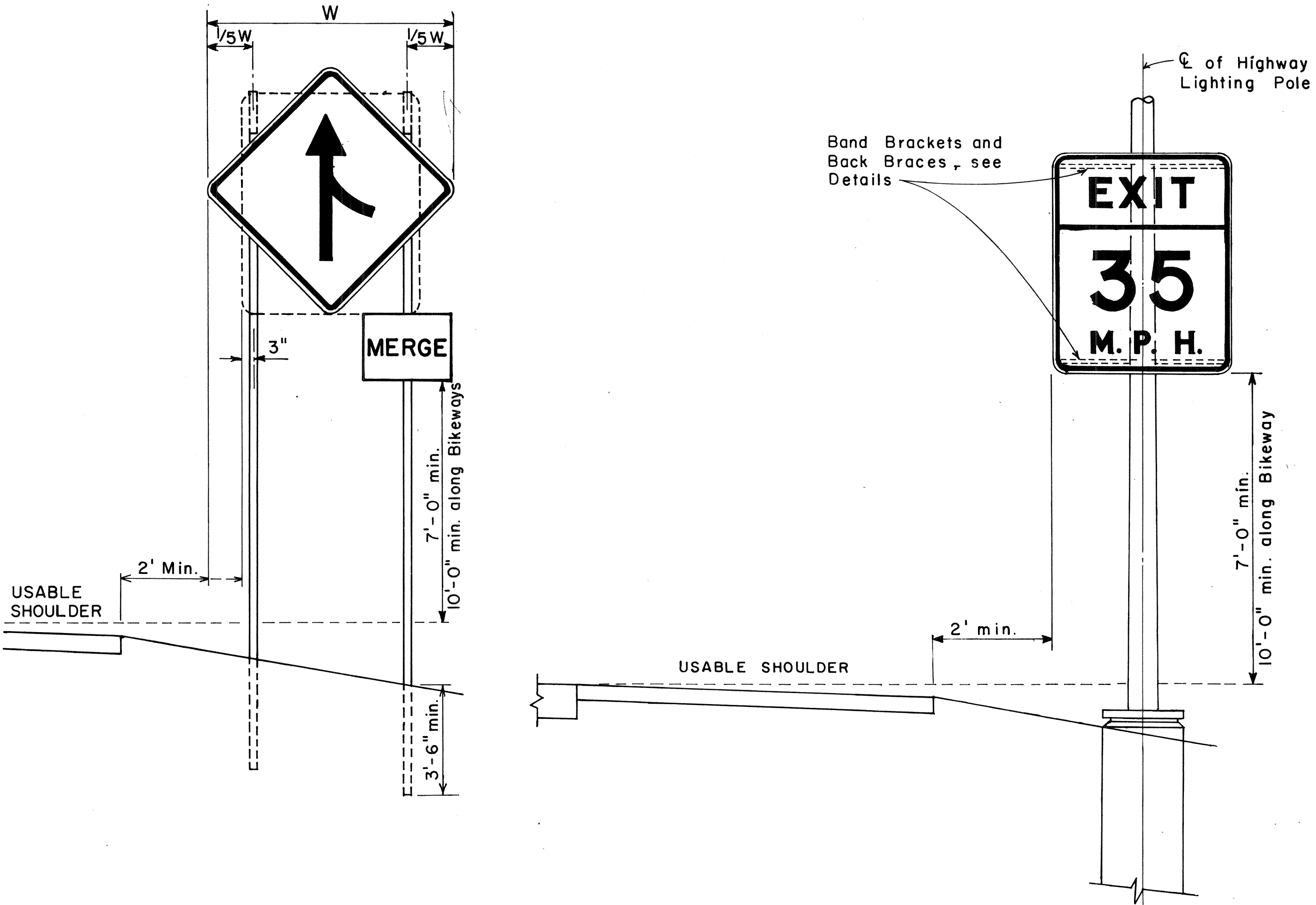
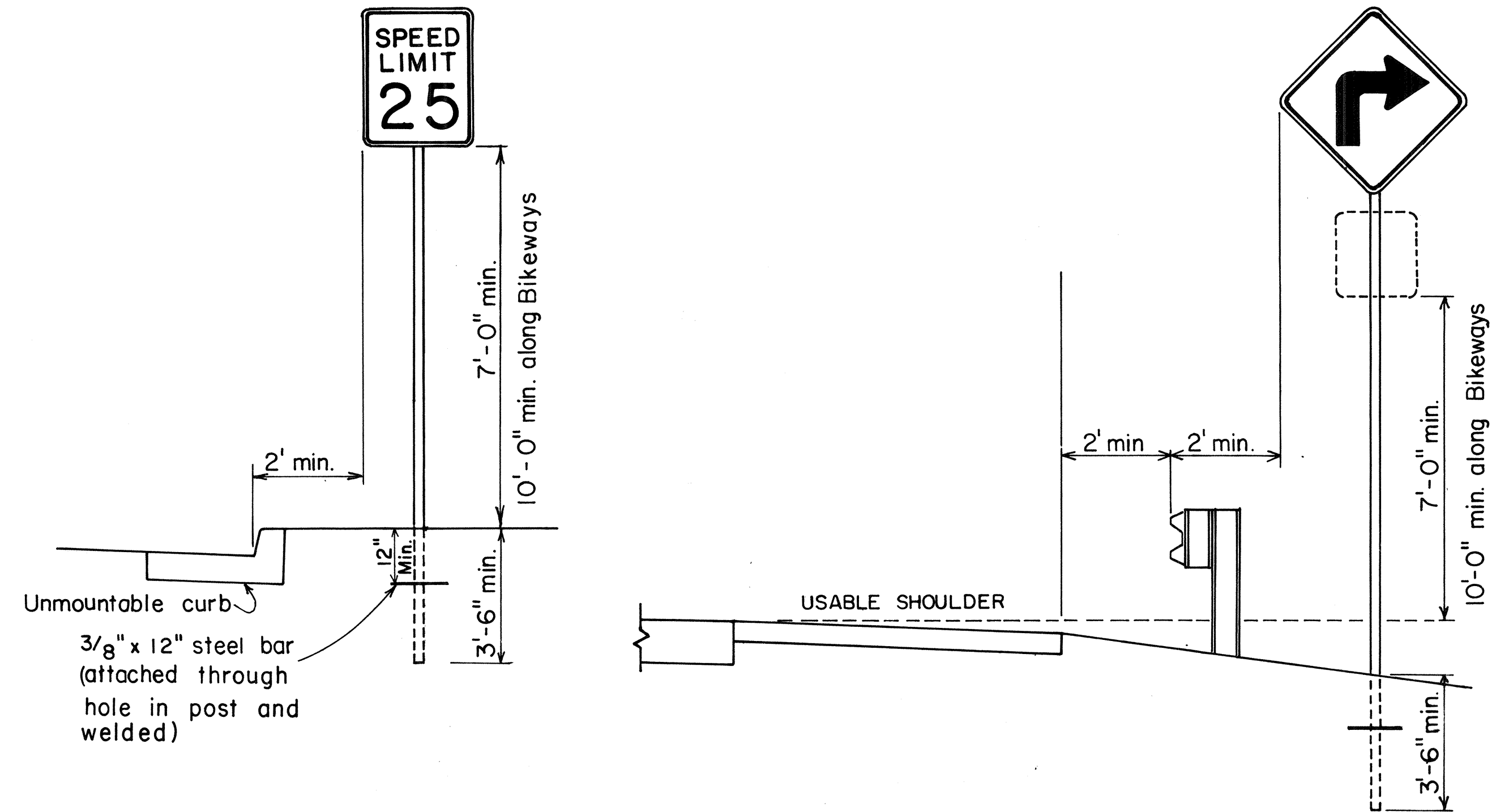
GENERAL NOTES

- 1. Signs 48" and wider or larger than 10 sq. ft. in area shall be mounted on two sign posts.
- 2. All signs larger than 10 sq. ft. in area or 48" inches and wider, and mounted on other than two posts supports (i.e., on highway lighting poles) shall have at least two sets of band brackets and back braces.
- 3. All signs 28 sq. ft. in area or larger and mounted on other than two posts supports (i.e., on highway lighting poles) shall have at least three sets of band brackets and back braces.
- 4. 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.
- 5. Sign posts shall extend 3 1/2" above sign where required for City and County street name signs.
- 6. (R) or (L) indicates right or left and shall be as shown on the plans.

BACK BRACE DETAILS  
FOR BALANCED SIGN INSTALLATION



TYPICAL BAND BRACKET FOR  
MOUNTING TRAFFIC SIGNS



HEIGHT AND LATERAL LOCATION OF SIGNS  
TYPICAL INSTALLATION

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

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

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

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION

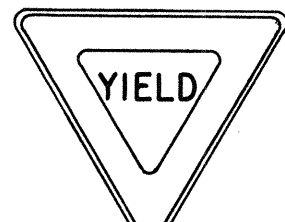
**STANDARD DETAILS**  
MISCELLANEOUS SIGN DETAILS

Not to scale June, 1977

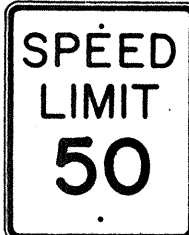
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HHS-092-1(12)      | 1978        | 33        | 59           |



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



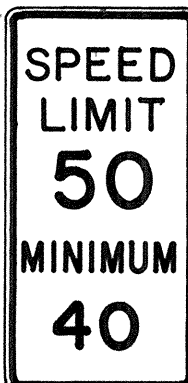
R1-2 36"x36"x36"  
R1-2-A 48"x48"x48"



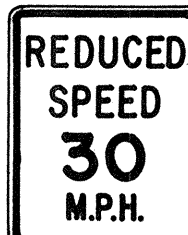
R2-1(50) 24"x30"  
R2-1(50)-A 48"x60"



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



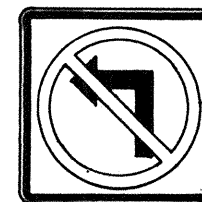
R2-4a(50/40) 24"x48"  
R2-4a(50/40)-A 48"x96"



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



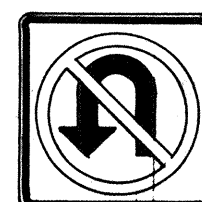
R3-1 24"x24"  
24"x18"  
R3-1-A 48"x48"  
48"x36"



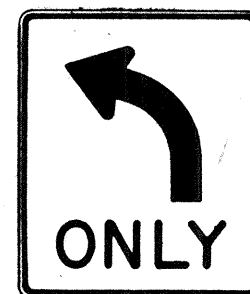
R3-2 24"x24"  
24"x18"  
R3-2-A 48"x48"  
48"x36"



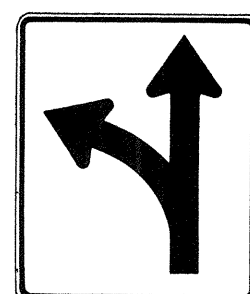
R3-3 24"x24"  
R3-3-A 48"x48"



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



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



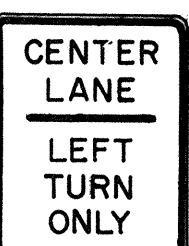
R3-6(L) 30"x36"  
R3-6(L)-A 48"x60"



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



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



R3-9 24"x30"



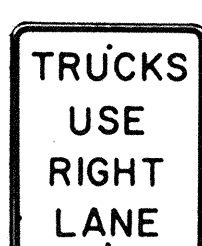
R4-1 24"x30"



R4-2 24"x30"



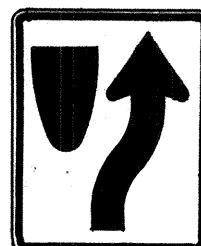
R4-3 24"x30"  
R4-3-A 48"x60"



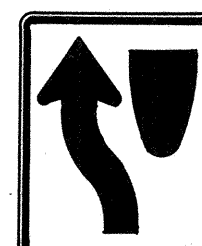
R4-5 24"x30"



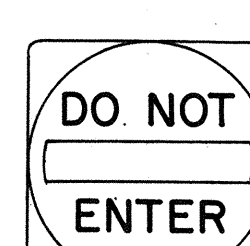
R4-6(500) 24"x30"



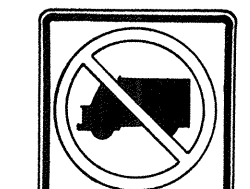
R4-7 24"x30"  
24"x18"



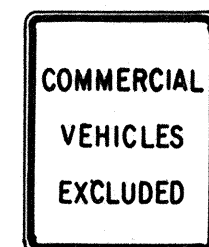
R4-8 24"x30"  
24"x18"



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



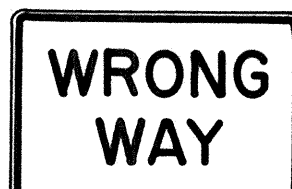
R5-2 24"x24"  
24"x18"



R5-4 24"x30"



R5-6 24"x24"  
24"x18"



R5-9 36"x24"



R6-1(R) 36"x12"



R6-2(R) 18"x24"



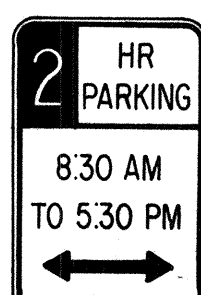
R7-1 12"x18"  
R7-1-A 24"x30"



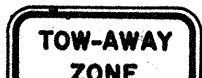
R7-4 12"x18"  
R7-4-A 24"x30"



R7-107(R) 12"x18"



R7-108 12"x18"



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



R8-1 24"x30"



R8-2 24"x30"



R8-3 24"x30"



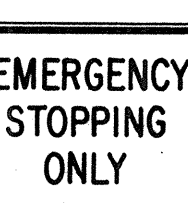
R8-4 30"x24"  
R8-4-A 48"x36"



R8-5 24"x30"



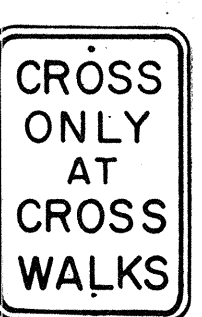
R8-6 24"x30"



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



R9-1 18"x24"



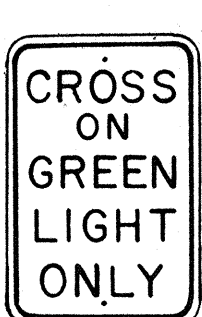
R9-2 12"x18"



R9-3 12"x18"



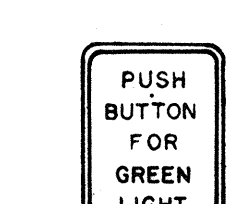
R9-4 18"x24"



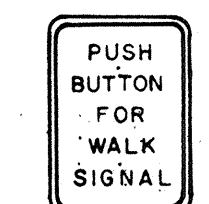
R10-1 12"x18"



R10-2 12"x18"



R10-3 9"x12"



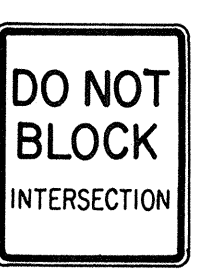
R10-4 9"x12"



R10-5 24"x30"



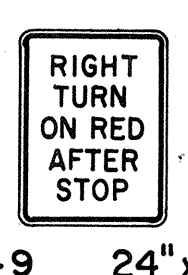
R10-6 24"x36"



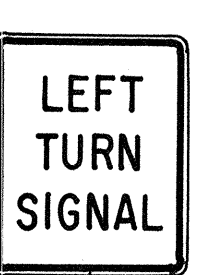
R10-7 24"x30"



R10-8 24"x30"



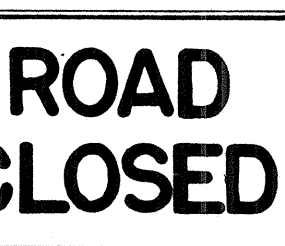
R10-9 24"x30"



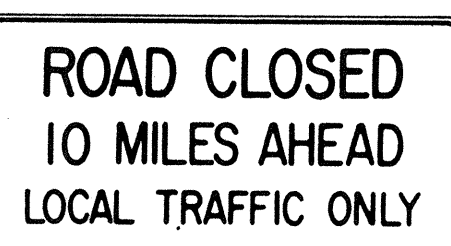
R10-10 24"x30"



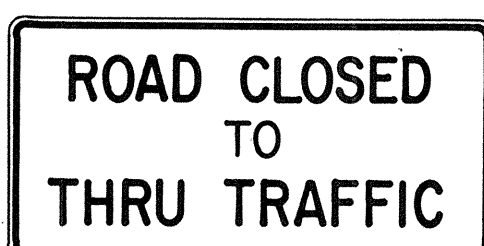
R11-1 24"x30"



R11-2 48"x30"



R11-3(10) 60"x30"



R11-4 60"x30"



R12-1(10) 24"x30"

### GENERAL NOTES

- Sign details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, and "Standard Highway Signs," 1972, and as amended.
- All regulatory signs shall be reflectorized unless otherwise specified.
- All regulatory signs shall have 3/8" bolt holes drilled at appropriate locations.
- Numerals in ( ) indicates numerals to be inserted for sign message. (R) or (L) indicates right or left.

APPROVAL RECOMMENDED:

*Etsuki Tanaka*  
TRAFFIC ENGINEER

3/17/72  
DATE

APPROVED:

*Robert Roberts*  
ASSISTANT CHIEF, ENGINEERING

3-20-72  
DATE

| NO. | REVISION                                 | APPROVED BY | DATE     |
|-----|------------------------------------------|-------------|----------|
| 1   | Supersedes Sht. DT 101 Approved 12-30-69 | H.T.        | 3/20/72  |
| 2   | Revised General Note 1.                  | H.T.        | 10/14/74 |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION

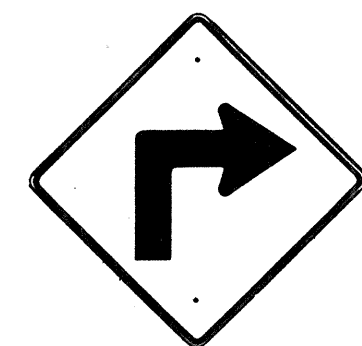
### STANDARD DETAILS REGULATORY SIGNS

NOT TO SCALE

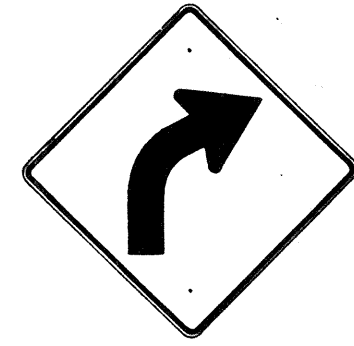
SHEET No. 2 OF 17 SHEETS DT 101

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

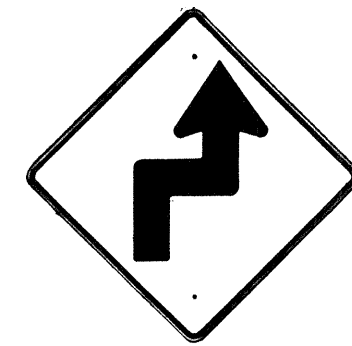
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII *            | HAW.  | HHS-092-1(12)      | 1978        | 34        | 59           |



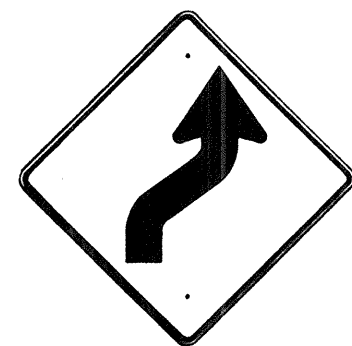
W1-1(R) 30"x30"  
W1-1(R)-A 48"x48"



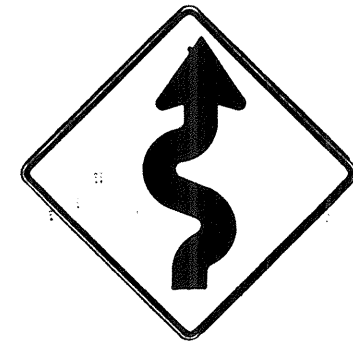
W1-2(R) 30"x30"  
W1-2(R)-A 48"x48"



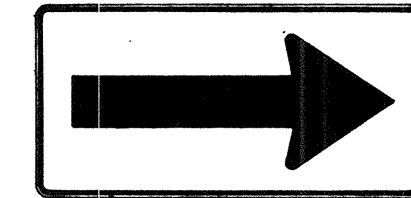
W1-3(R) 30"x30"  
W1-3(R)-A 48"x48"



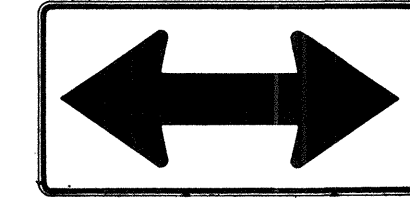
W1-4(R) 30"x30"  
W1-4(R)-A 48"x48"



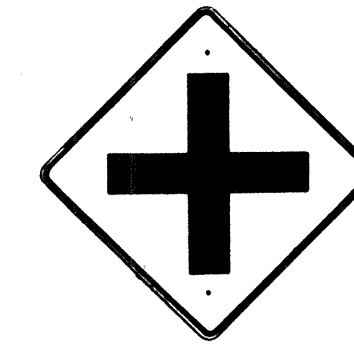
W1-5(R) 30"x30"  
W1-5(R)-A 48"x48"



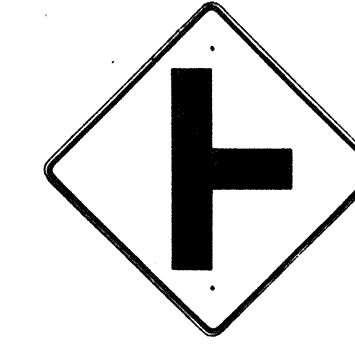
W1-6 48"x24"



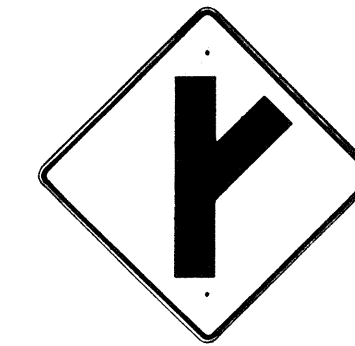
W1-7 48"x24"



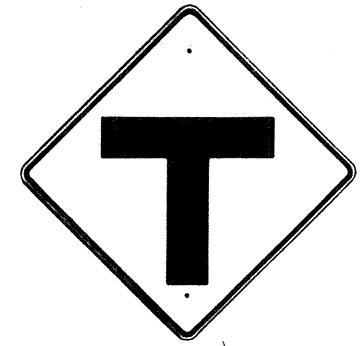
W2-1 30"x30"  
W2-1-A 48"x48"



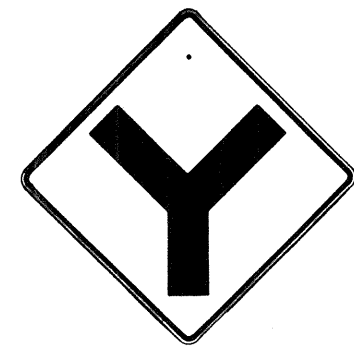
W2-2 30"x30"  
W2-2-A 48"x48"



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



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



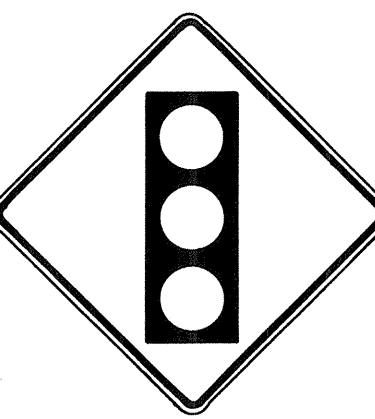
W2-5 30"x30"  
W2-5-A 48"x48"



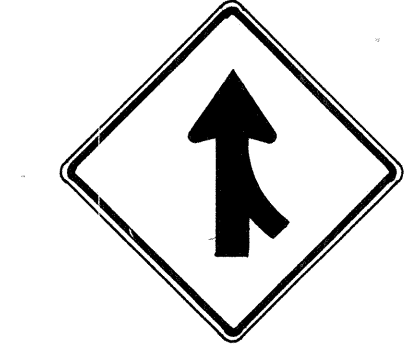
W3-1 30"x30"  
W3-1-A 36"x36"



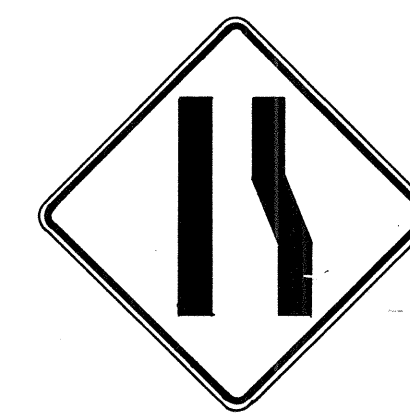
W3-2 30"x30"  
W3-2-A 36"x36"



W3-3 36"x36"  
24"x18"



W4-1(R) 30"x30"  
24"x18"  
W4-1(R)-A 48"x48"  
24"x18"



W4-2(R) 36"x36"  
W4-2(R)-A 48"x48"



W5-1 36"x36"



W5-2 30"x30"  
W5-2-A 36"x36"



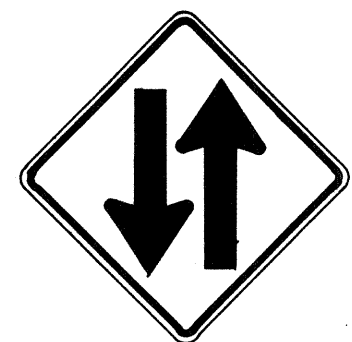
W5-3 36"x36"



W6-1 36"x36"  
24"x18"



W6-2 36"x36"  
24"x18"



W6-3 30"x30"  
24"x18"  
W6-3-A 36"x36"  
24"x18"  
W6-3-B 48"x48"  
24"x18"



W7-1 30"x30"  
24"x18"  
W7-1-A 36"x36"  
24"x18"



W7-2 24"x18"



W8-1 30"x30"  
W8-1-A 36"x36"



W8-2 30"x30"  
W8-2-A 36"x36"



W8-3 30"x30"  
W8-3-A 36"x36"



W8-4 30"x30"  
W8-4-A 36"x36"



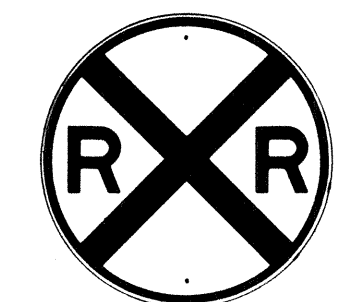
W8-5 30"x30"  
24"x18"  
W8-5-A 36"x36"  
24"x18"



W9-1(R) 30"x30"  
W9-1(R)-A 36"x36"  
W9-1(R)-B 48"x48"



W9-2(L) 36"x36"  
W9-2(L)-A 48"x48"



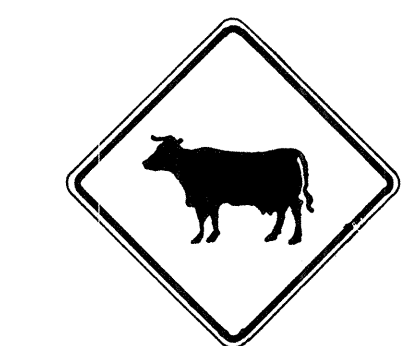
W10-1 36" Diameter



W11-1 30"x30"  
24"x18"  
W11-1-A 36"x36"  
24"x18"



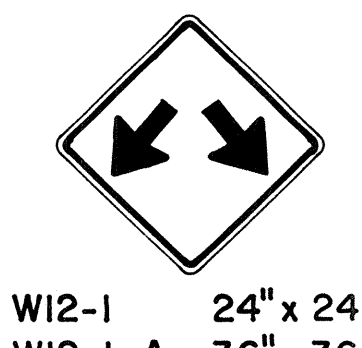
W11-2 30"x30"  
24"x18"  
W11-2-A 36"x36"  
24"x18"



W11-4 30"x30"  
24"x18"  
W11-4-A 36"x36"  
24"x18"



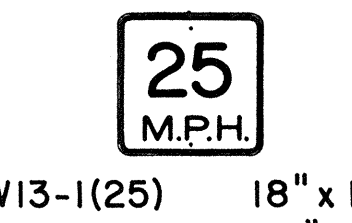
W11-5 30"x30"  
24"x18"  
W11-5-A 36"x36"  
24"x18"



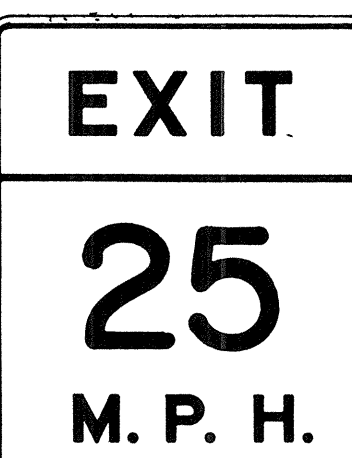
W12-1 24"x24"  
W12-1-A 36"x36"  
W12-1-B 48"x48"



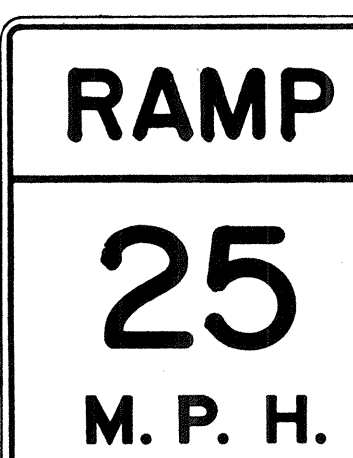
W12-2(12'-6") 36"x36"  
24"x18"



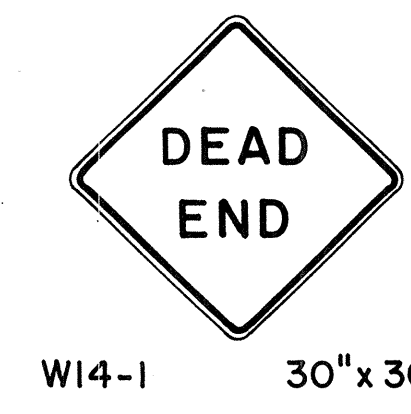
W13-1(25) 18"x18"  
W13-1(25)-A 24"x24"



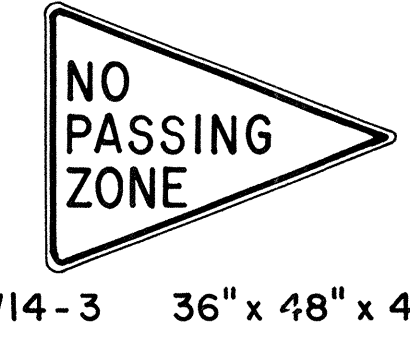
W13-2(25) 48"x60"



W13-3(25) 48"x60"



W14-1 30"x30"



W14-3 36"x48"x48"

## GENERAL NOTES

- 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 warning signs shall be reflectorized unless otherwise specified.
- All warning signs shall have 3/8" bolt holes drilled at appropriate locations.
- Numerals in ( ) indicates numerals to be inserted for sign message. (R) or (L) indicates right or left.
- Signs prefixed with "CW" on the plans shall indicate orange and black construction signs, and shall be reflectorized.

APPROVAL RECOMMENDED:  
*Erich Tanaka*  
TRAFFIC ENGINEER

3/17/72  
DATE

APPROVED:  
*Walter D. S. S.*  
ASSISTANT CHIEF, ENGINEERING

3-20-72  
DATE

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

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION

## STANDARD DETAILS WARNING SIGNS

NOT TO SCALE

SHEET No. 3 OF 17 SHEETS DT 102

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

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HHS-042-1(12)      | 1978        | 35        | 50           |

General Notes

1. Sign details shall conform to the latest editions of the following FHWA publications:
- a. "Standard Alphabets for Highway Signs," and as amended.
  - b. "Standard Highway Signs," and as amended.
  - c. "Manual on Uniform Traffic Control Devices for Streets and Highways," and as amended.
2. All signs shall be reflectorized with reflective sheeting, unless otherwise specified.
3. All signs shall have 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.

ALL WAY  
R1-4 18"x 6"

REDUCED SPEED  
35  
AHEAD  
R2-5d(35) 24"x 30"  
R2-5d(35)-A 48"x 60"

SPEED LIMIT ENFORCED BY VASCAR  
4" Series D  
4" Series C  
3" Series D  
5" Series C  
R2-10 24"x 30"

CENTER LANE ONLY  
R3-9b 24"x36"

BUS STOP  
R7-107(R) 12"x 24"

RESERVED PARKING  
R7-8 12"x18"  
R7-8-A 24"x30"

ANY TIME  
R8-3a 24"x 24"  
24"x 18"  
R8-3a-A 48"x 48"

NO PED XING  
R9-3a 18"x18"  
18"x12"  
R9-3a-A 24"x24"  
24"x18"

USE CROSSWALK  
R9-3b(R) 18"x 12"

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

NO TURN ON RED  
RIO-11a 24"x 30"

TURN RIGHT ANY TIME WITH CAUTION  
4" Series C  
R16-1 24"x30"

NO LEFT TURN ON RED  
4" Series D -  
3" Series D -  
2" Series D -  
3" Series D -  
R16-3 18"x 24"

NO RIGHT TURN ON RED  
R16-4 18"x 24"

UNLICENSED VEHICLES BICYCLES, CYCLES UNDER 5 H.P., PEDESTRIANS KEEP OUT FREEWAY  
3" Series C  
4" Series E  
R16-5 36"x 42"

TURN AHEAD  
8" Series F  
5" Series D  
R16-6 24"x 30"

U TURN OK  
8" Series F  
5" Series D  
R16-7 24"x 30"

MOTOR-DRIVEN CYCLES PROHIBITED  
4" Series B  
R5-8 30"x 24"

W17-1(L) 60"x 60"

STOP AHEAD  
W3-1a 36"x 36"  
24 x 18"  
W3-1a-A 48"x 48"  
24"x 18"

YIELD AHEAD  
W3-2a 36"x 36"  
24"x 18"  
W3-2a-A 48"x 48"  
24"x 18"

STOP AHEAD WHEN FLASHING  
6" Series C  
W3-4 48"x 48"

TRUCK CROSSING  
W8-6 30"x 30"  
W8-6-A 36"x 36"

THRU TRAFFIC MERGE LEFT  
6" Series E  
W9-3(L) 48"x 48"

EQUESTRIAN XING  
W11-7 36"x 36"  
24"x 18"  
W11-7-A 48"x 48"  
24"x 18"

FIRE STATION  
W11-8 36"x 36"  
24"x 18"  
W11-8-A 48"x 48"  
24"x 18"

W11-9 36"x 36"  
W11-9-A 48"x 48"

LIMITED SIGHT DISTANCE  
W14-4 36"x 36"  
W14-4-A 48"x 48"

DELAYED GREEN  
4" Series C  
W15-1 24"x 24"

ADVANCE GREEN  
W15-2 24"x 24"

END FREEWAY 1/2 MI  
8" Series E  
CW16-1(1/2) 60"x 60"

RIGHT LANE EXIT ONLY  
8" Series E  
W18-1 48"x 60"

SI-1 36"x 36"

S2-1 36"x 36"

SCHOOL BUS STOP AHEAD  
S3-1 30"x30"

8:00 AM TO 3:30 PM  
S4-1 24"x10"

WHEN CHILDREN ARE PRESENT

S4-2 24"x 10"

SCHOOL  
S4-3 24"x8"

WHEN FLASHING

S4-4 24"x10"

SIDEWALK CLOSED  
7" Series D  
CW23-4 48"x 48"

USE SIDEWALK  
4" Series C  
R18-1 24"x 18"

| NO. | REVISION                                | APPROVED BY | DATE   |
|-----|-----------------------------------------|-------------|--------|
|     | Supersedes Sht. DT 103 approved 3/20/72 | H.T.        | 5/3/78 |

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

APPROVED:  
*Harbor 2. Zakeishu*  
ASSISTANT CHIEF, ENGINEERING  
5/3/78  
DATE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION  
**STANDARD DETAILS**  
MISCELLANEOUS SIGNS  
NOT TO SCALE  
DATE: MAY, 1978  
SHEET No. 4 OF 17 SHEETS DT 103

|               |      |
|---------------|------|
| ORIGINAL PLAN | DATE |
| DRAWN BY      |      |
| DESIGNED BY   |      |
| QUANTITIES BY |      |
| CHECKED BY    |      |
| NO.           |      |

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HHS-092-1(12)      | 1978        | 36        | 59           |



CW20-1a 48" x 48"



CW20-2d 48" x 48"



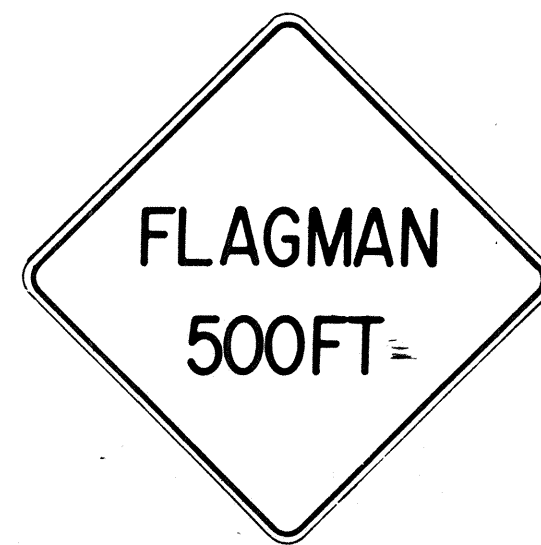
CW20-3b 48" x 48"



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"



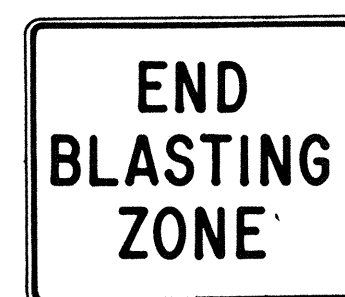
CW21-6 30" x 30"



CW22-1b 48" x 48"



CW22-2 42" x 36"



CW22-3 42" x 36"



CG20-1(5) 60" x 36"



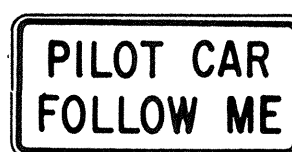
CG20-2 60" x 24"



CM4-9(R) 30" x 24"



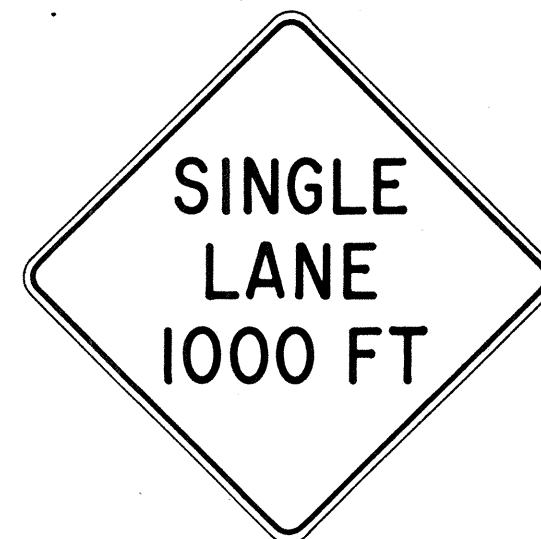
CM4-10(R) 48" x 18"



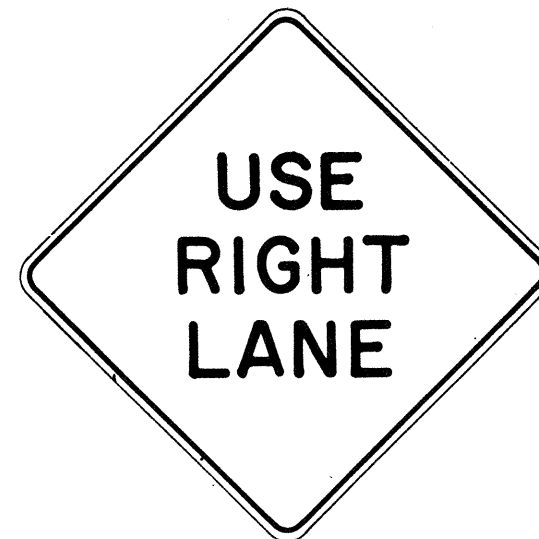
CG20-4 36" x 18"



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.T.        | 3/25/72  |
| 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:  
Shirley Salsich 2/27/72  
ASSISTANT CHIEF, ENGINEERING DATE

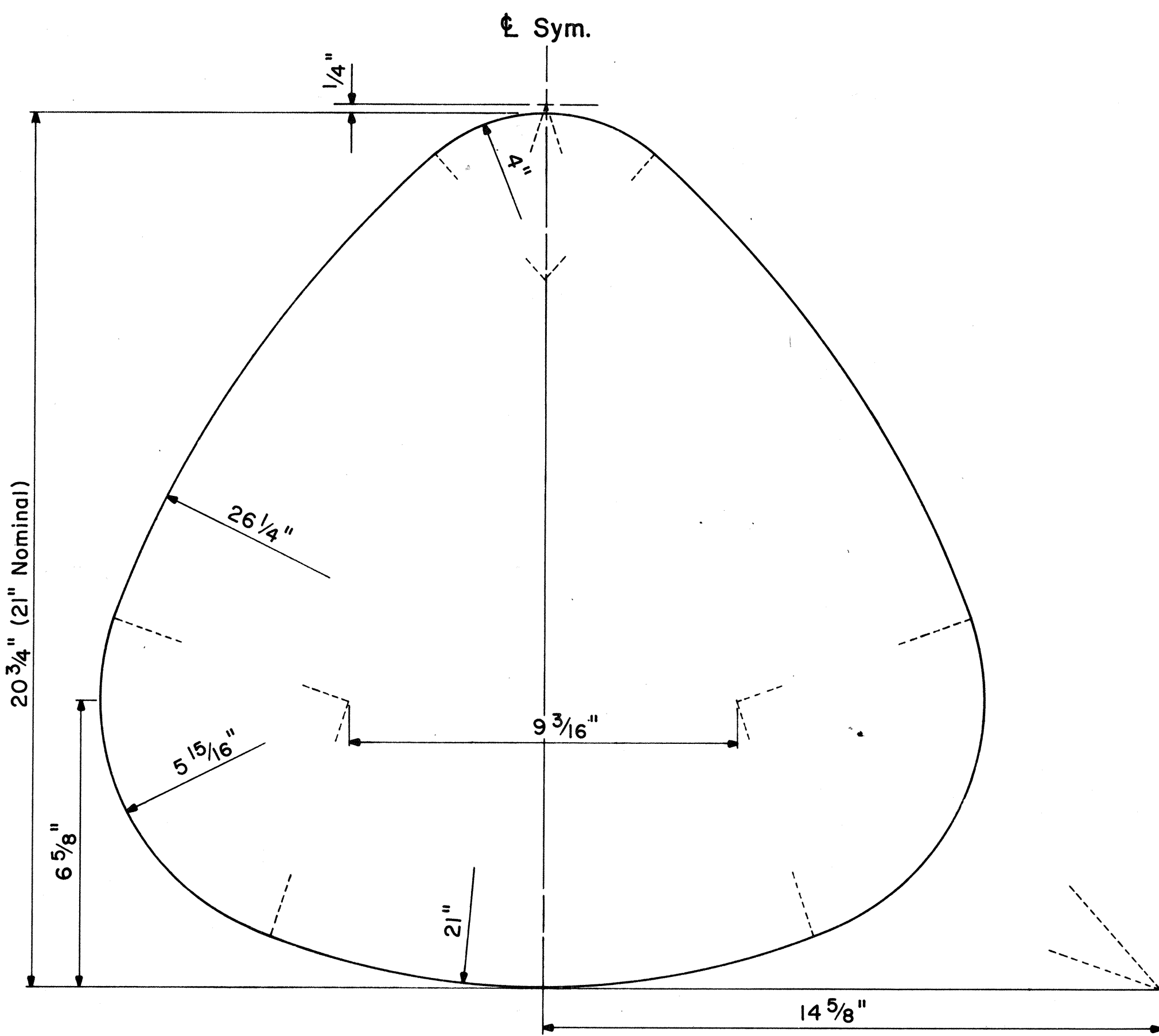
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION

### STANDARD DETAILS CONSTRUCTION SIGNS

NOT TO SCALE

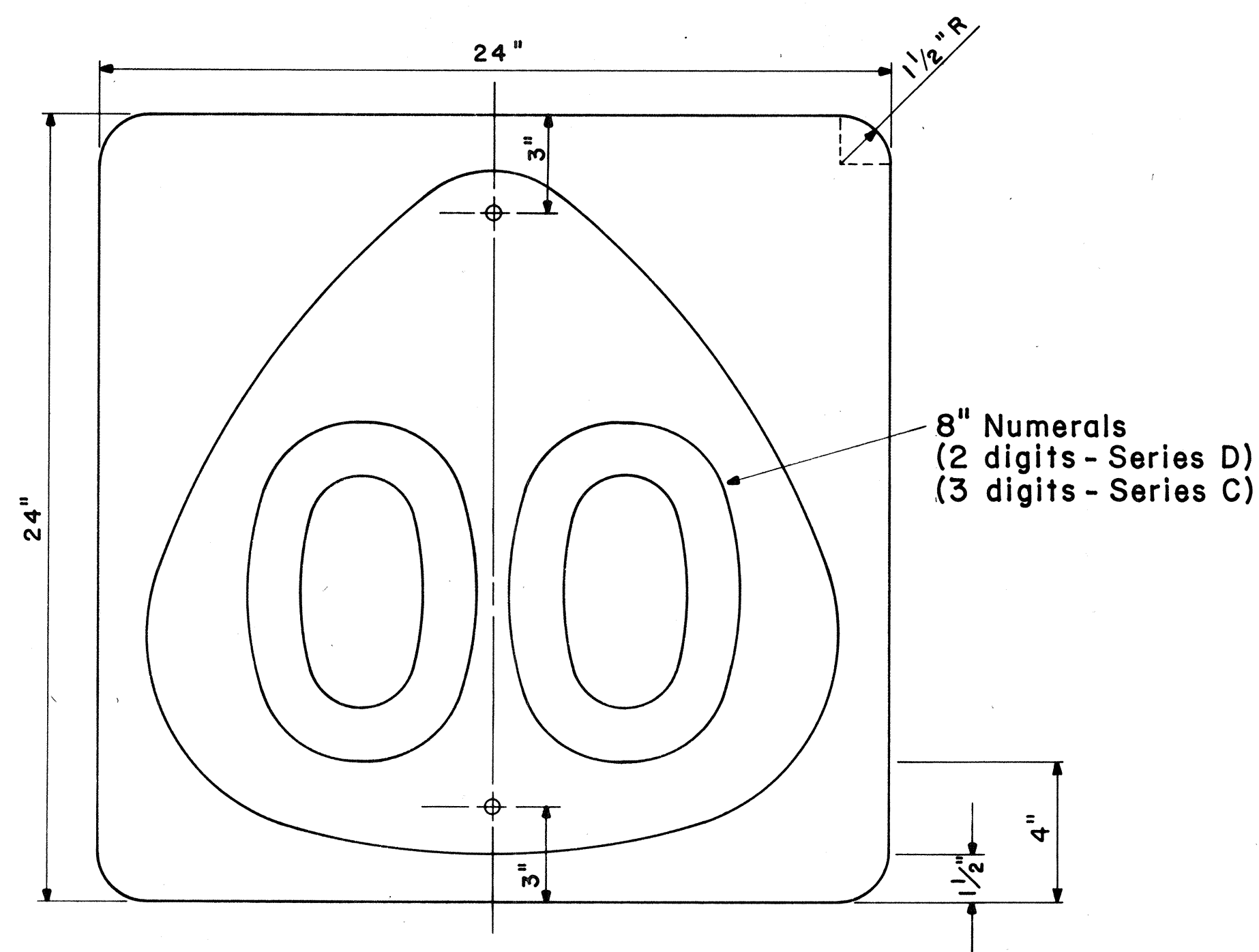
SHEET No. 5 OF 17 SHEETS DT 104

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HH5-092-1(12)      | 1978        | 37        | 59           |



STATE ROUTE MARKER DETAIL

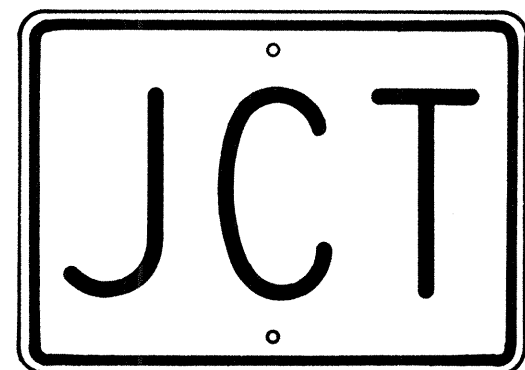
Not to Scale



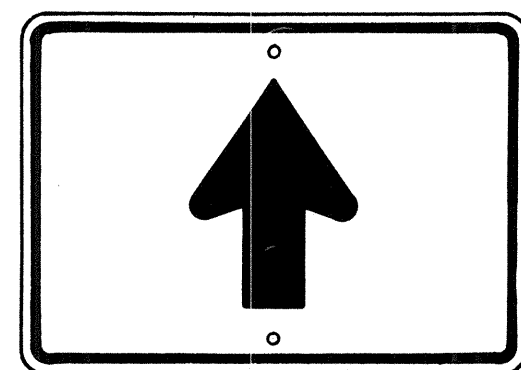
STATE ROUTE MARKER

MI-6 (00) 24"x 24"

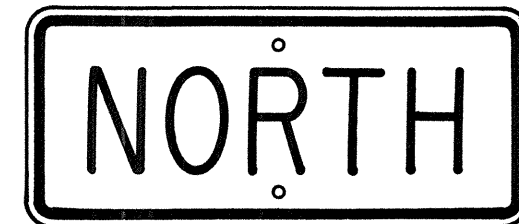
Scale: 1/4" = 1"



M2-1 21"x 15"



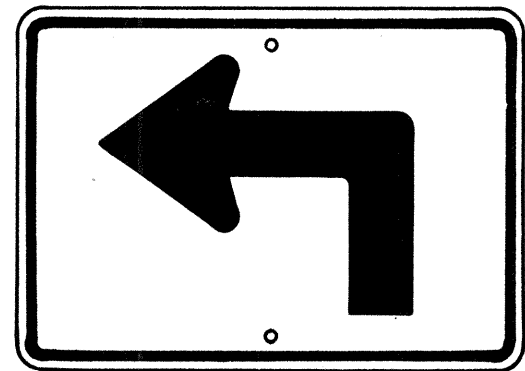
M6-3 21"x 15"



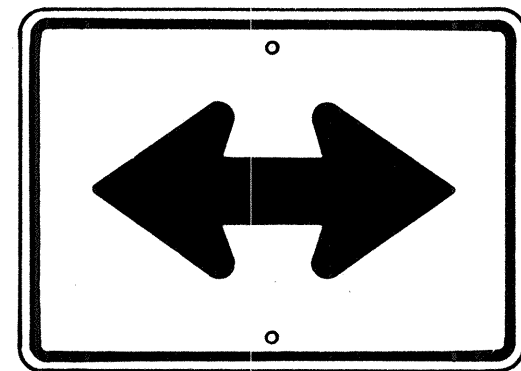
M3-1 24"x 12"  
M3-1-A 36"x 18"



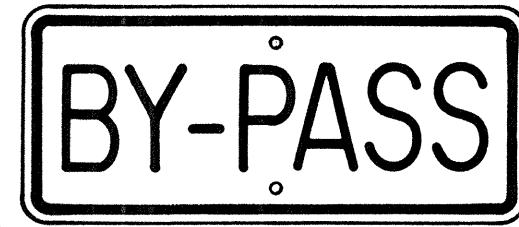
M4-1 24"x 12"



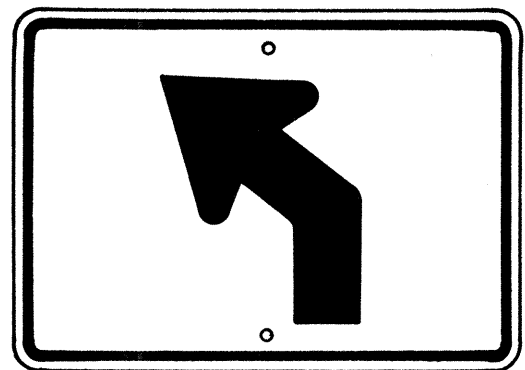
M5-1(L) 21"x 15"



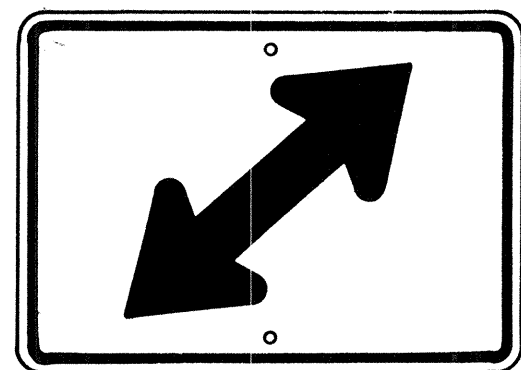
M6-4 21"x 15"



M4-2 24"x 12"



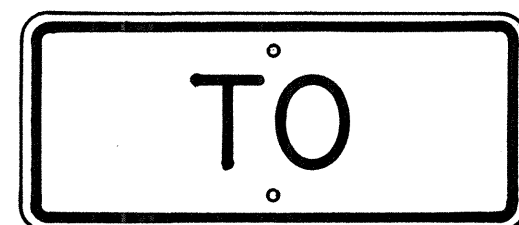
M5-2(L) 21"x 15"



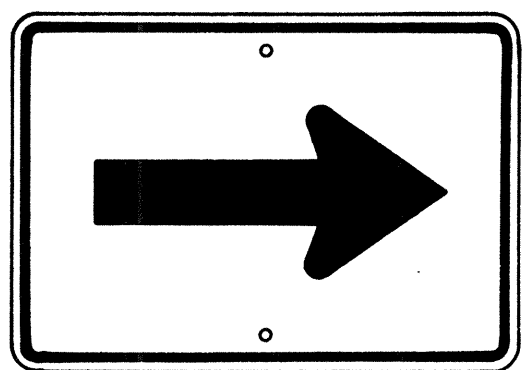
M6-5(R) 21"x 15"



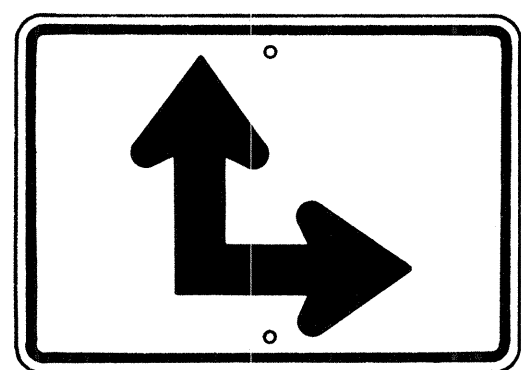
M4-3 24"x 12"



M4-5 24"x 12"



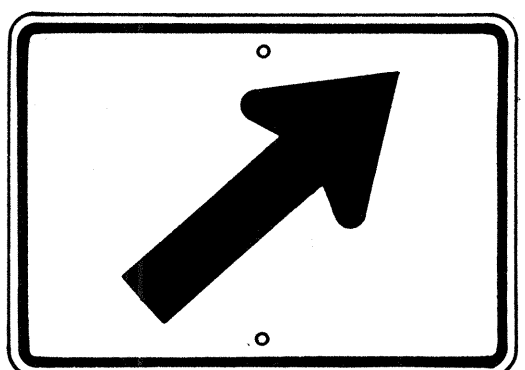
M6-1 21"x 15"



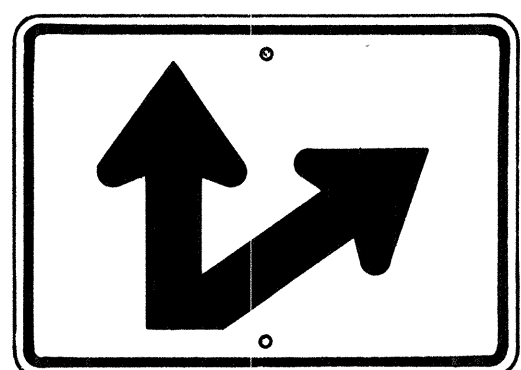
M6-6(R) 21"x 15"



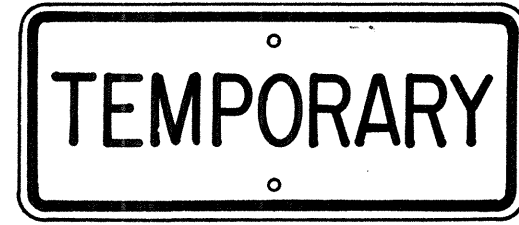
M4-6 24"x 12"



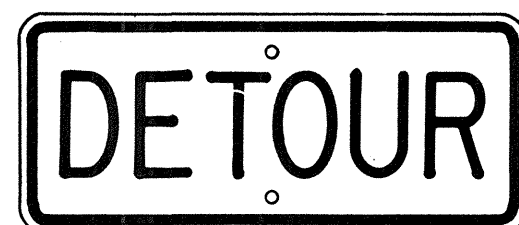
M6-2(R) 21"x 15"



M6-7(R) 21"x 15"



M4-7 24"x 12"



M4-8 24"x 12"

AUXILIARY MARKERS

Not to Scale

GENERAL NOTES

- Marker details shall conform to the FHWA publications "Manual on Uniform Traffic Control Devices for Streets and Highways," 1971, "Standard Alphabets for Highway Signs," 1966, and "Standard Highway Signs," 1972, and as amended.
- All markers shall be reflectorized unless otherwise specified.
- All markers shall have 3/8" bolt holes drilled at appropriate locations.
- Numerals in ( ) indicates numerals to be inserted for marker message. (R) or (L) indicates right or left.
- Sign message of Cardinal Direction Marker (M3 series) shall be denoted by the following:
  - M3-1 : NORTH
  - M3-2 : EAST
  - M3-3 : SOUTH
  - M3-4 : WEST
- Markers prefixed with "IM" on the plans shall have a white legend on a blue background.

APPROVAL RECOMMENDED:

*Erich Tanaka* 6/6/72  
TRAFFIC ENGINEER DATE

APPROVED:

*Julius S. Salas* 6-1-72  
ASSISTANT CHIEF, ENGINEERING DATE

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

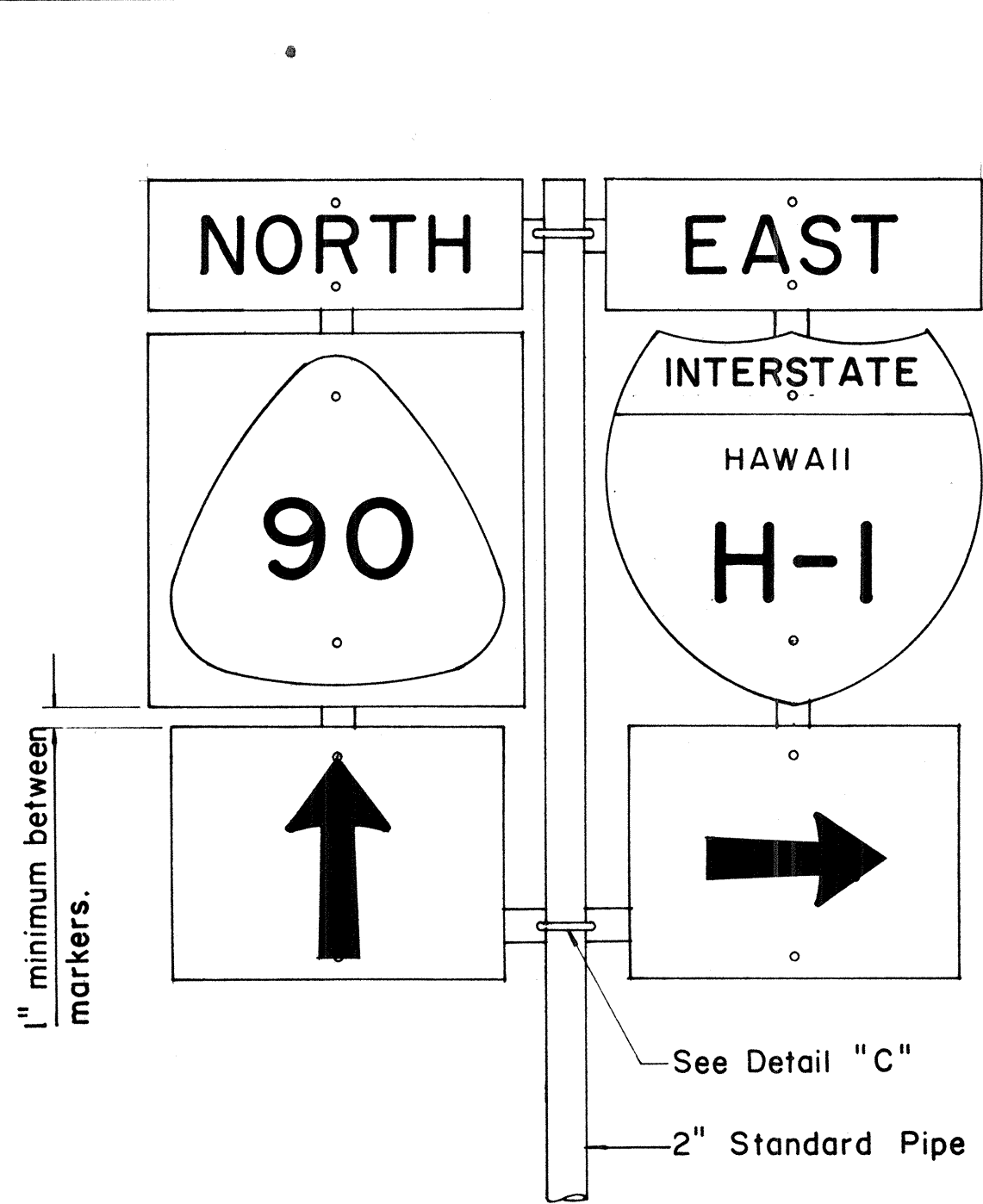
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION  
STANDARD DETAILS  
STATE ROUTE MARKER  
AND AUXILIARY MARKERS

Scale: As Shown

SHEET NO. 6 OF 17 SHEETS DT 105

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

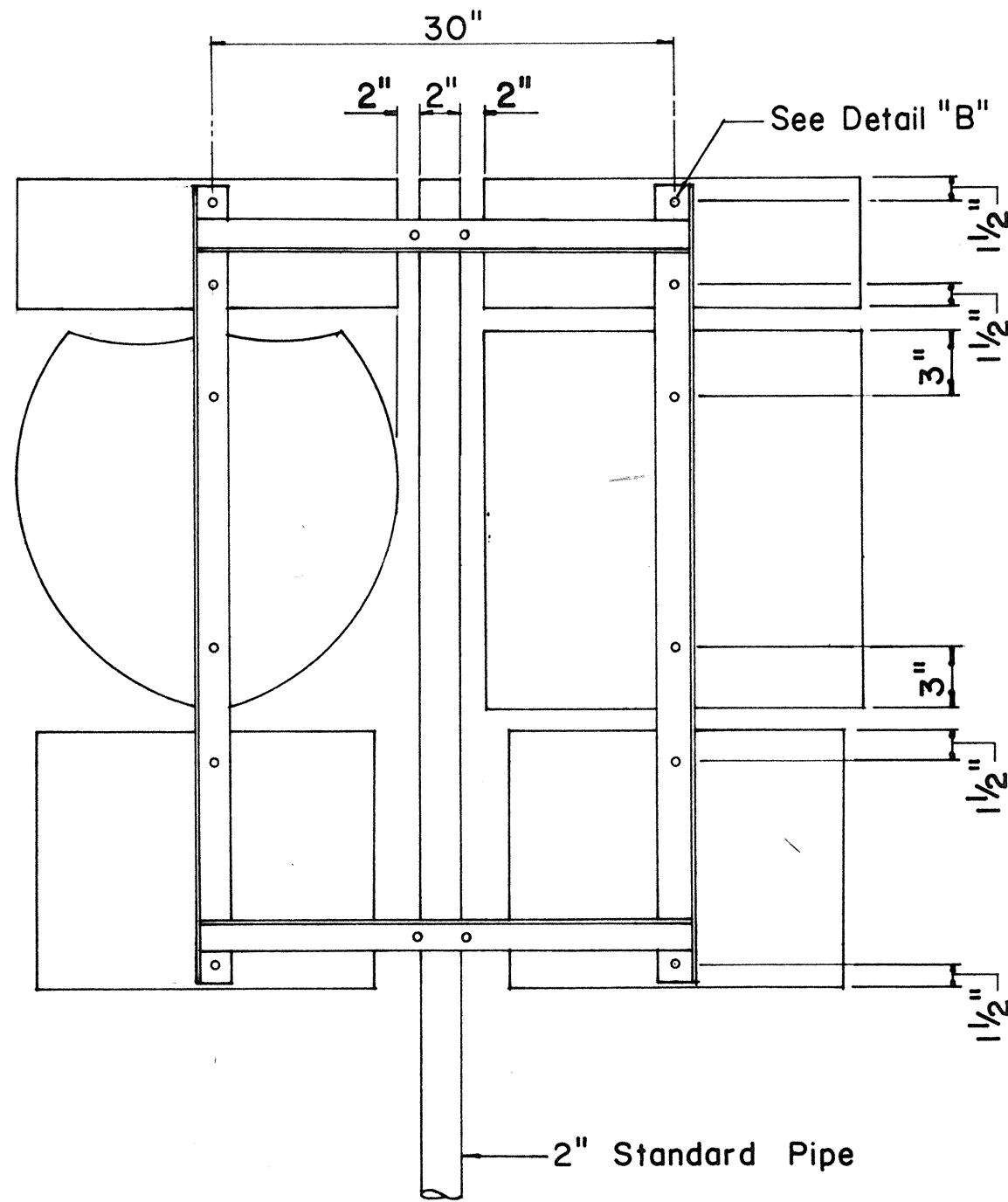
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HHS-092-1(12)      | 1978        | 38        | 59           |



FRONT ELEVATION

TYPE "B" ASSEMBLY

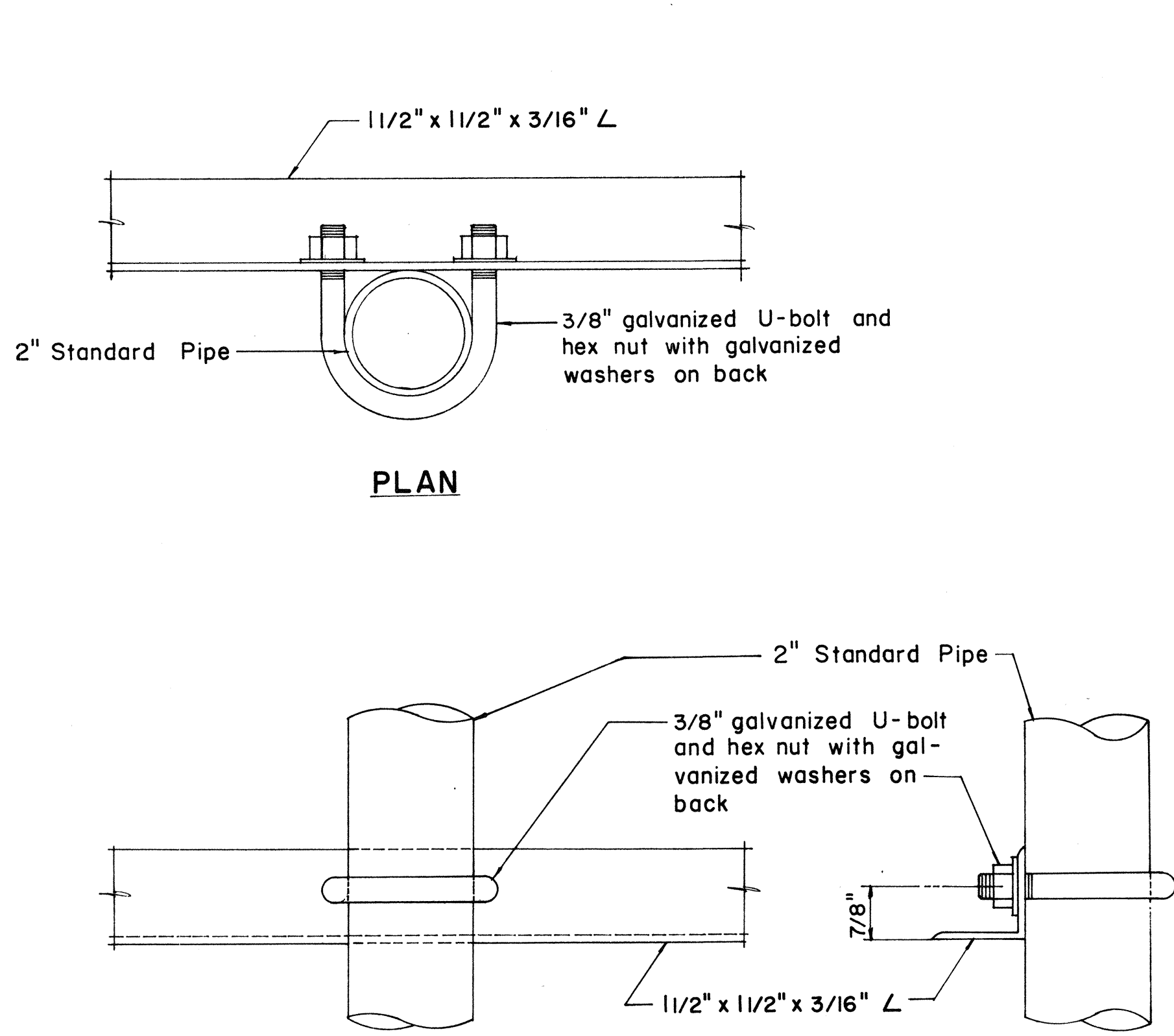
Not to Scale



REAR ELEVATION

NOTE:

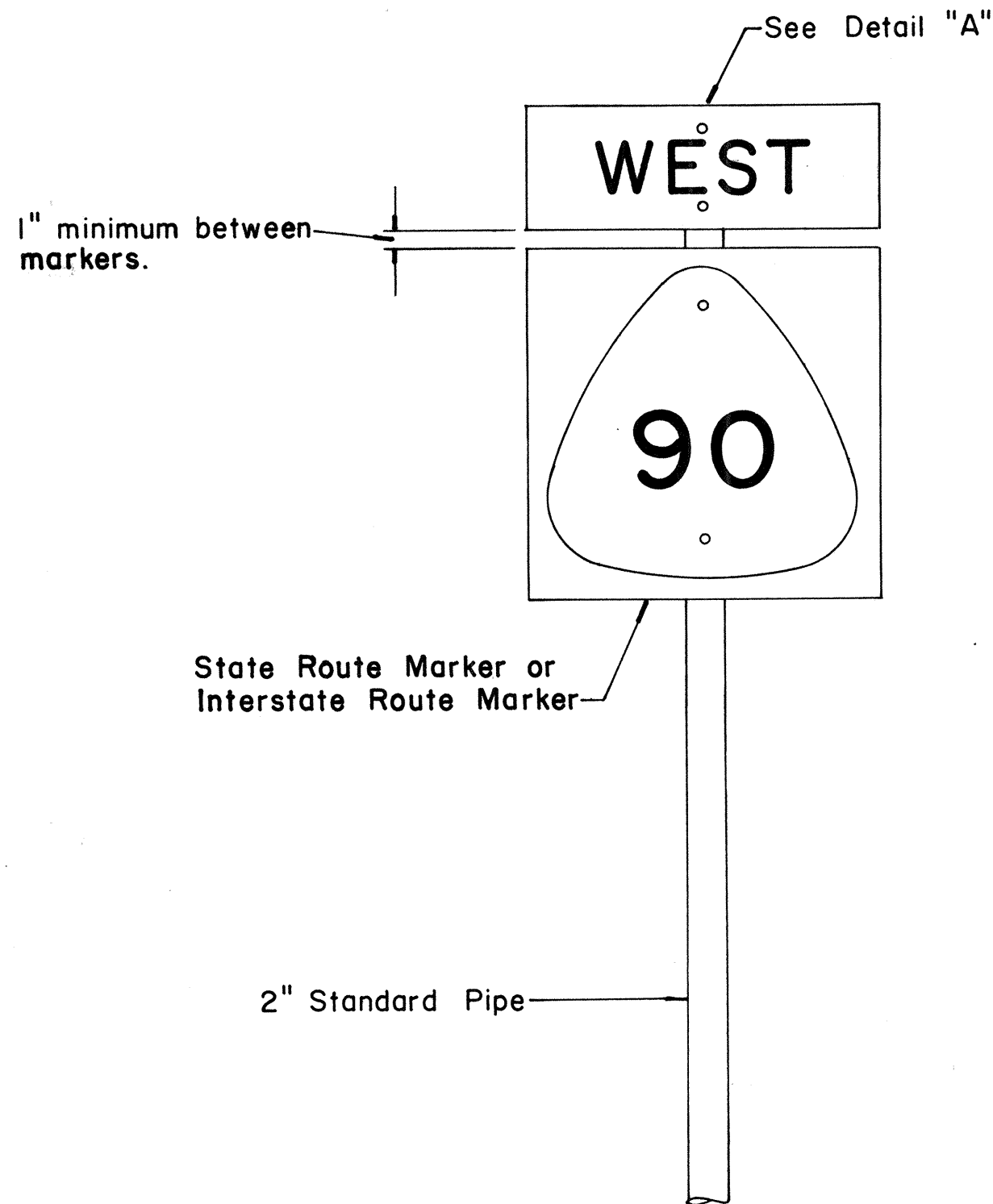
- Minimum clearance between markers shall be one inch. (Larger clearances shall be in multiples of one inch.)
- Pipe post for Type "A" & Type "B" Assembly shall be 2" Standard Pipe.



FRONT ELEVATION

DETAIL "C"

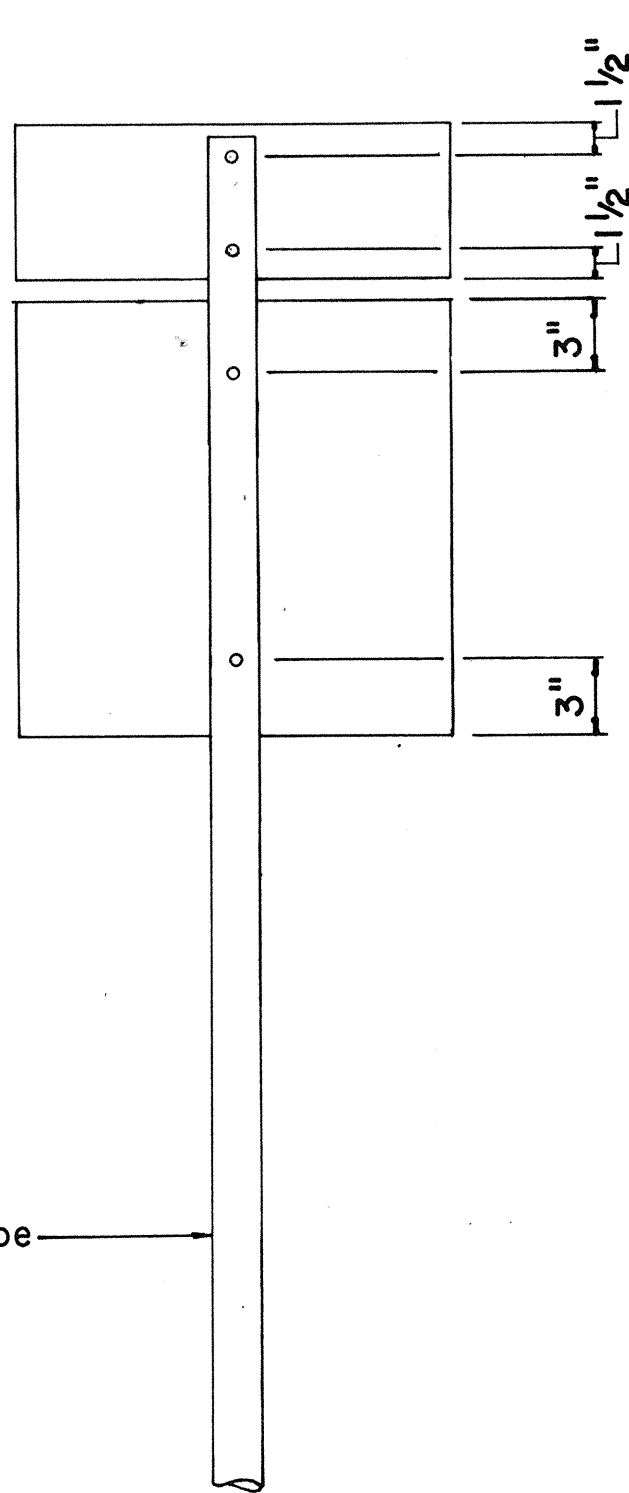
SIDE ELEVATION



FRONT ELEVATION

TYPE "A" ASSEMBLY

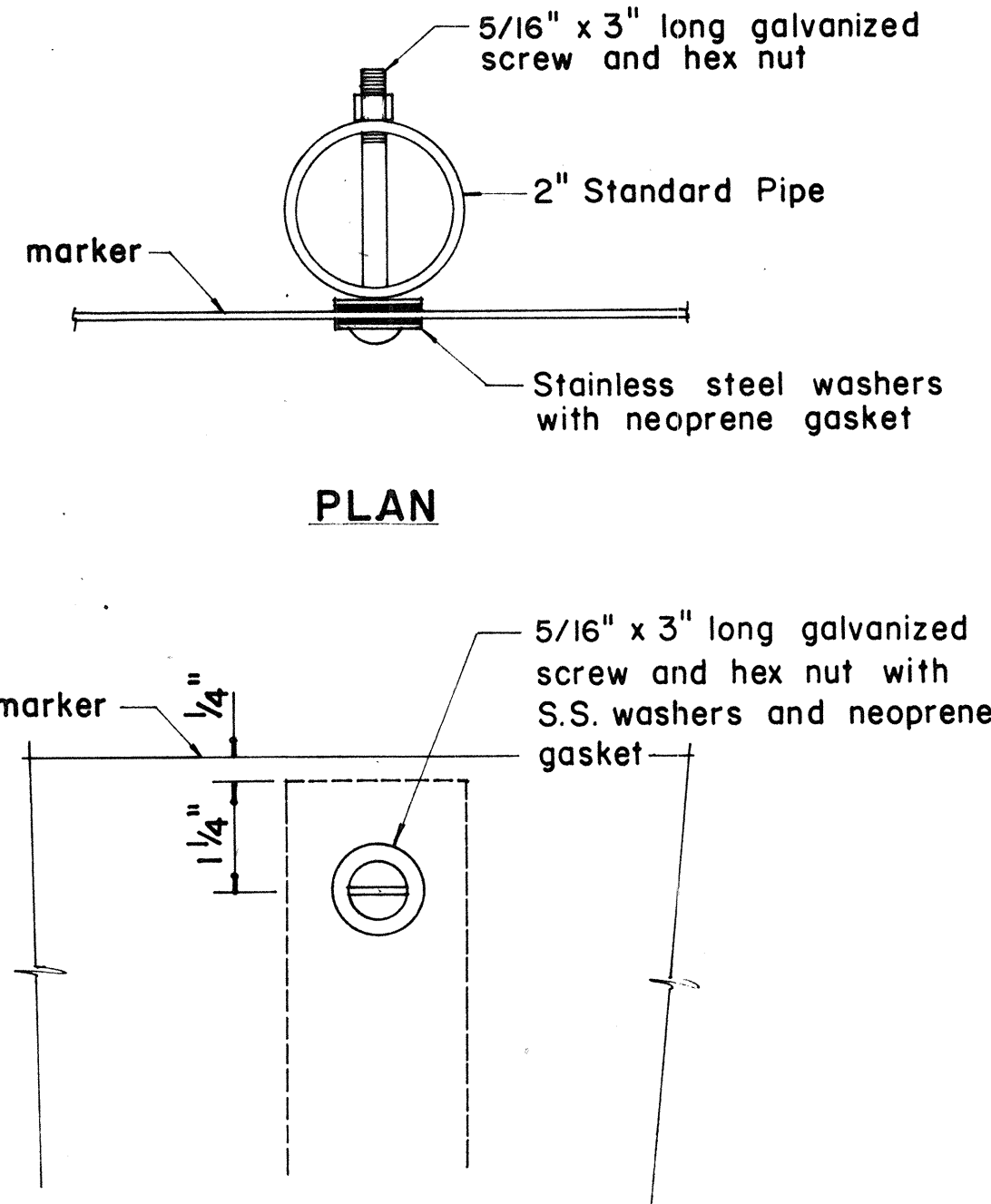
Not to Scale



REAR ELEVATION

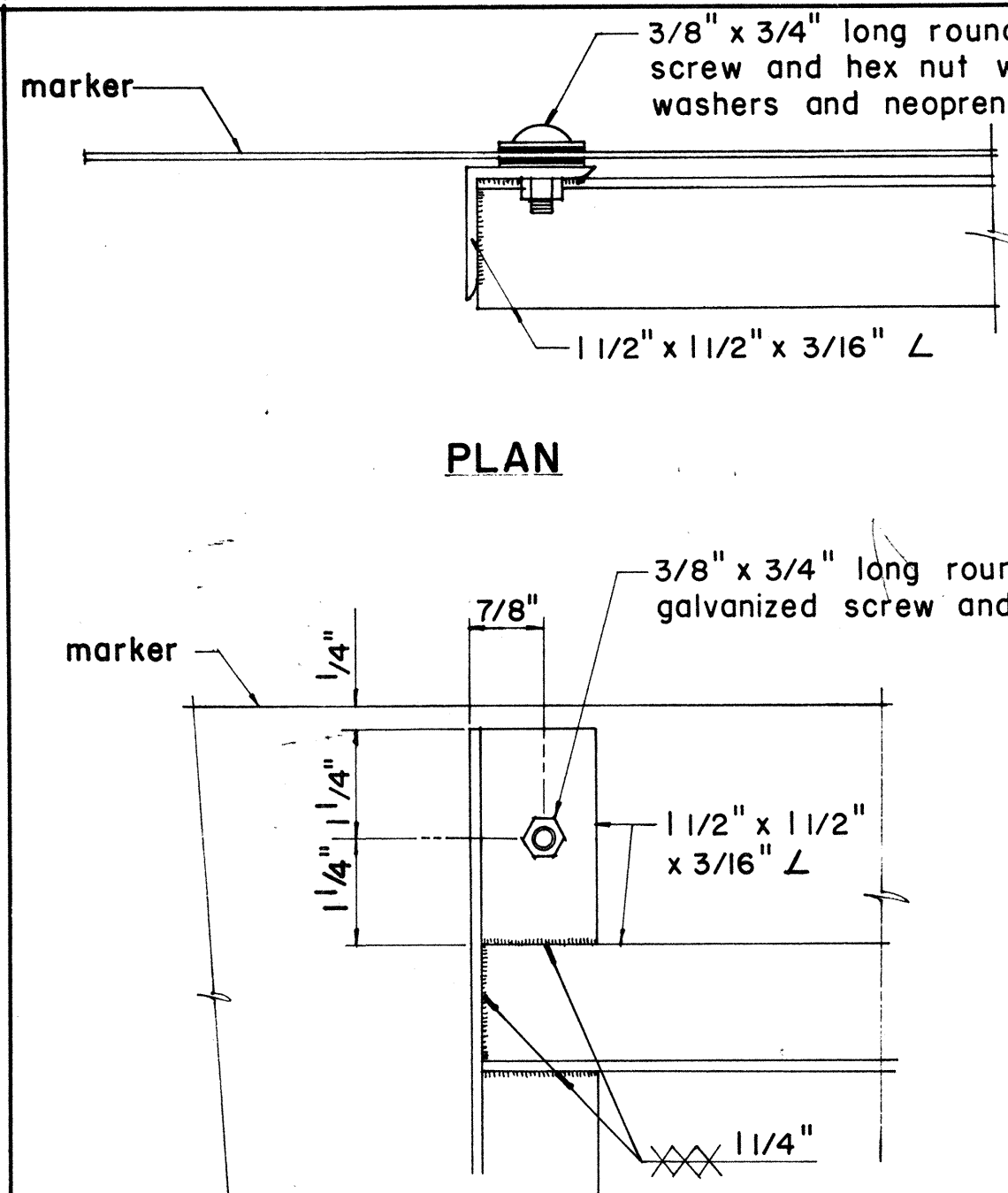
NOTE:

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



FRONT ELEVATION

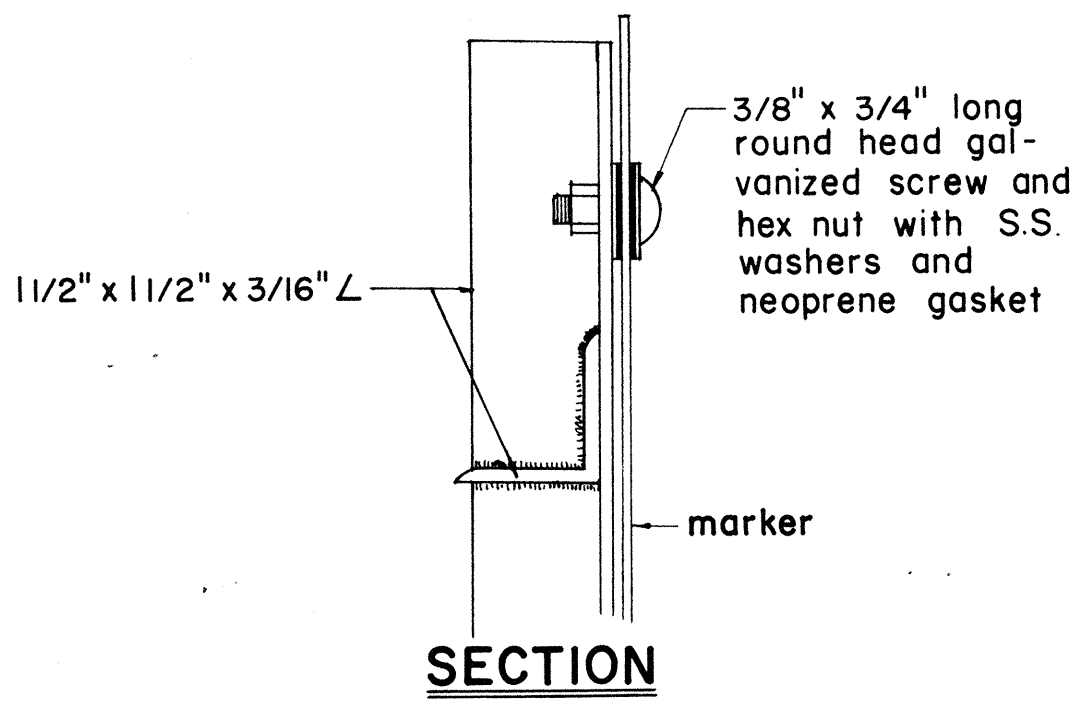
DETAIL "A"



PLAN

ELEVATION

DETAIL "B"



APPROVAL RECOMMENDED:

*Erich Tanaka* 12/29/69  
TRAFFIC ENGINEER DATE

APPROVED:

*John J. Sals* 12-30-69  
ASSISTANT CHIEF, ENGINEERING DATE

| NO. | REVISION                              | APPROVED BY | DATE   |
|-----|---------------------------------------|-------------|--------|
| 1   | Revisions to Route Marker Assemblies. | H.T.        | 6/1/72 |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS  
ROUTE MARKER ASSEMBLIES

Scale: As Shown

SHEET No. 7 OF 17 SHEETS DT 107

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HHS-092-1(12)      | 1978        | 39        | 59           |

GENERAL NOTES:

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

APPROVAL, RECOMMENDED: Eichi Tanaka 1/17/78  
TRAFFIC ENGINEER DATE

APPROVED: Robert D. Sakai 1/12/78  
ASSISTANT CHIEF, ENGINEERING DATE

| NO. | REVISION | APPROVED BY | DATE |
|-----|----------|-------------|------|
|     |          |             |      |

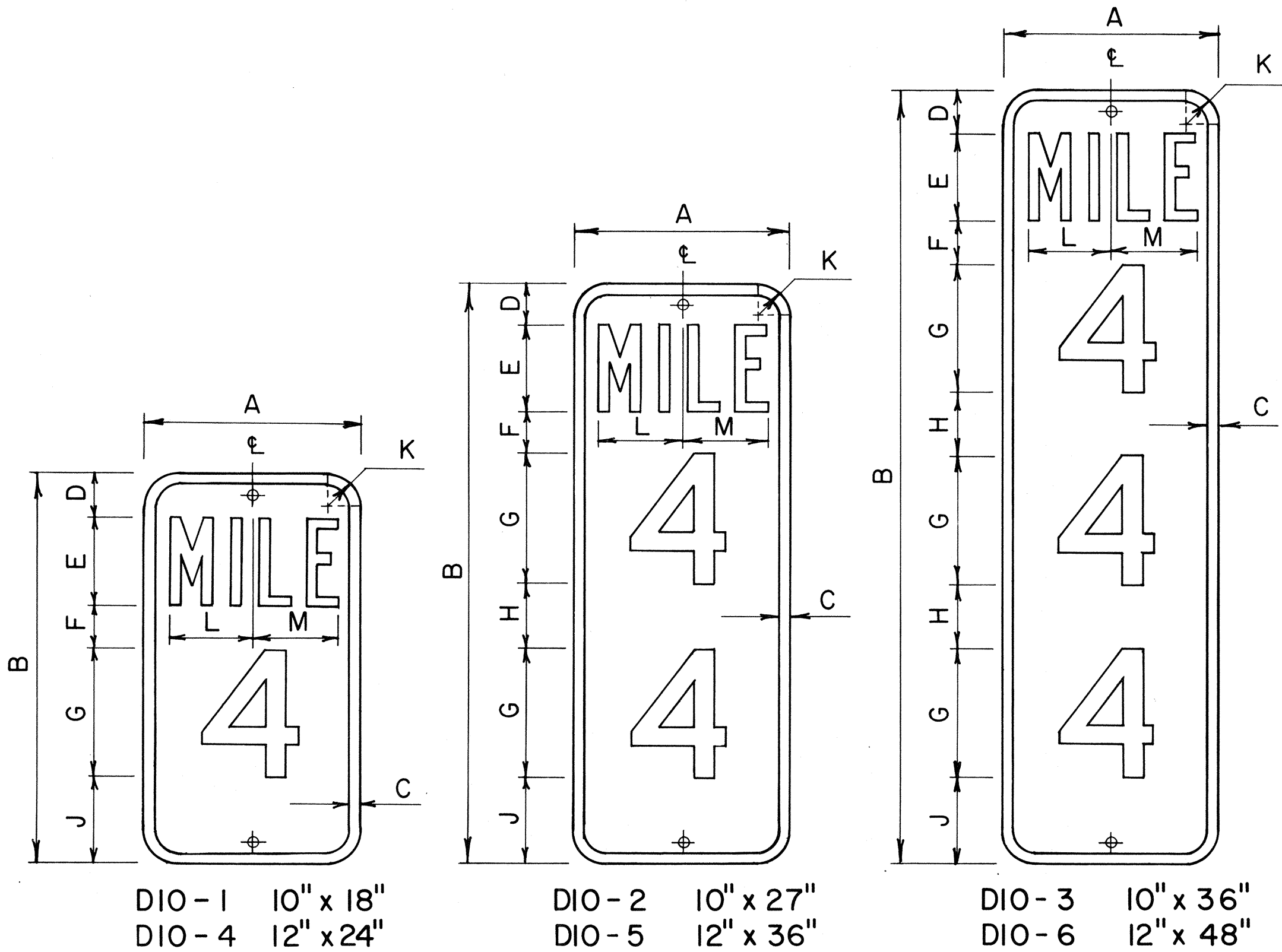
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION

STANDARD DETAILS

MILEPOSTS

SCALE: As Shown      DATE: December, 1977

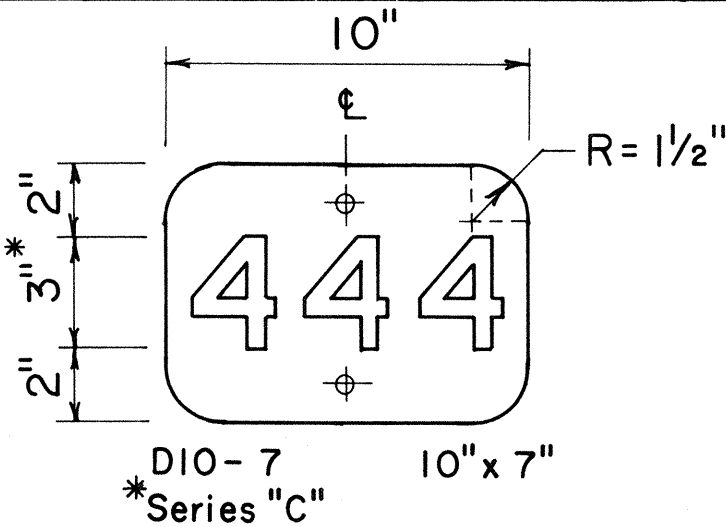
SHEET NO. 8 OF 17 SHEETS DT 116



MILEPOST MARKER PLATE DETAILS

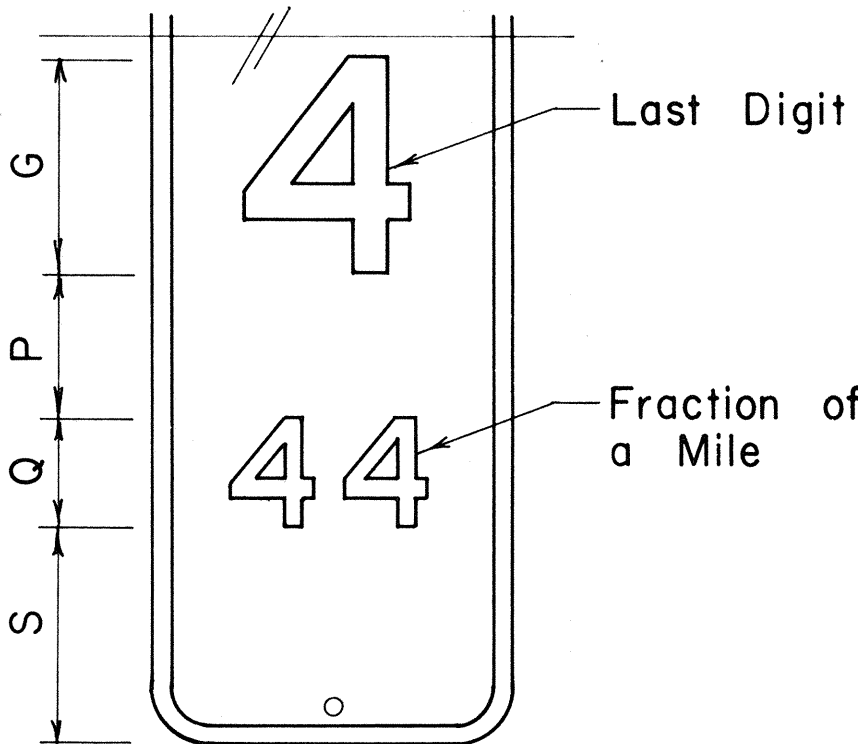
Scale: 3/16" = 1"

| MILEPOST PLATE SCHEDULE (INCHES) |         |    |    |     |   |   |   |    |       |   |       |       |       |               |
|----------------------------------|---------|----|----|-----|---|---|---|----|-------|---|-------|-------|-------|---------------|
| NAME                             | SIZE    | A  | B  | C   | D | E | F | G  | H     | J | K     | L     | M     | LETTER SERIES |
| DIO-1                            | 10 x 18 | 10 | 18 | 1/2 | 2 | 4 | 2 | 6  |       | 4 | 1 1/2 | 3 5/8 | 3 7/8 | B             |
| DIO-4                            | 12 x 24 | 12 | 24 | 1/2 | 3 | 4 | 3 | 10 |       | 4 | 1 1/2 | 4 5/8 | 4 7/8 | C             |
| DIO-2                            | 10 x 27 | 10 | 27 | 1/2 | 2 | 4 | 2 | 6  | 3     | 4 | 1 1/2 | 3 5/8 | 3 7/8 | B             |
| DIO-5                            | 12 x 36 | 12 | 36 | 1/2 | 3 | 4 | 3 | 10 | 3     | 3 | 1 1/2 | 4 5/8 | 4 7/8 | C             |
| DIO-3                            | 10 x 36 | 10 | 36 | 1/2 | 2 | 4 | 2 | 6  | 3     | 4 | 1 1/2 | 3 5/8 | 3 7/8 | B             |
| DIO-6                            | 12 x 48 | 12 | 48 | 1/2 | 3 | 4 | 3 | 10 | 2 1/2 | 3 | 1 1/2 | 4 5/8 | 4 7/8 | C             |



HIGHWAY ROUTE NUMBER PLATE DETAIL

Scale: 3/16" = 1"

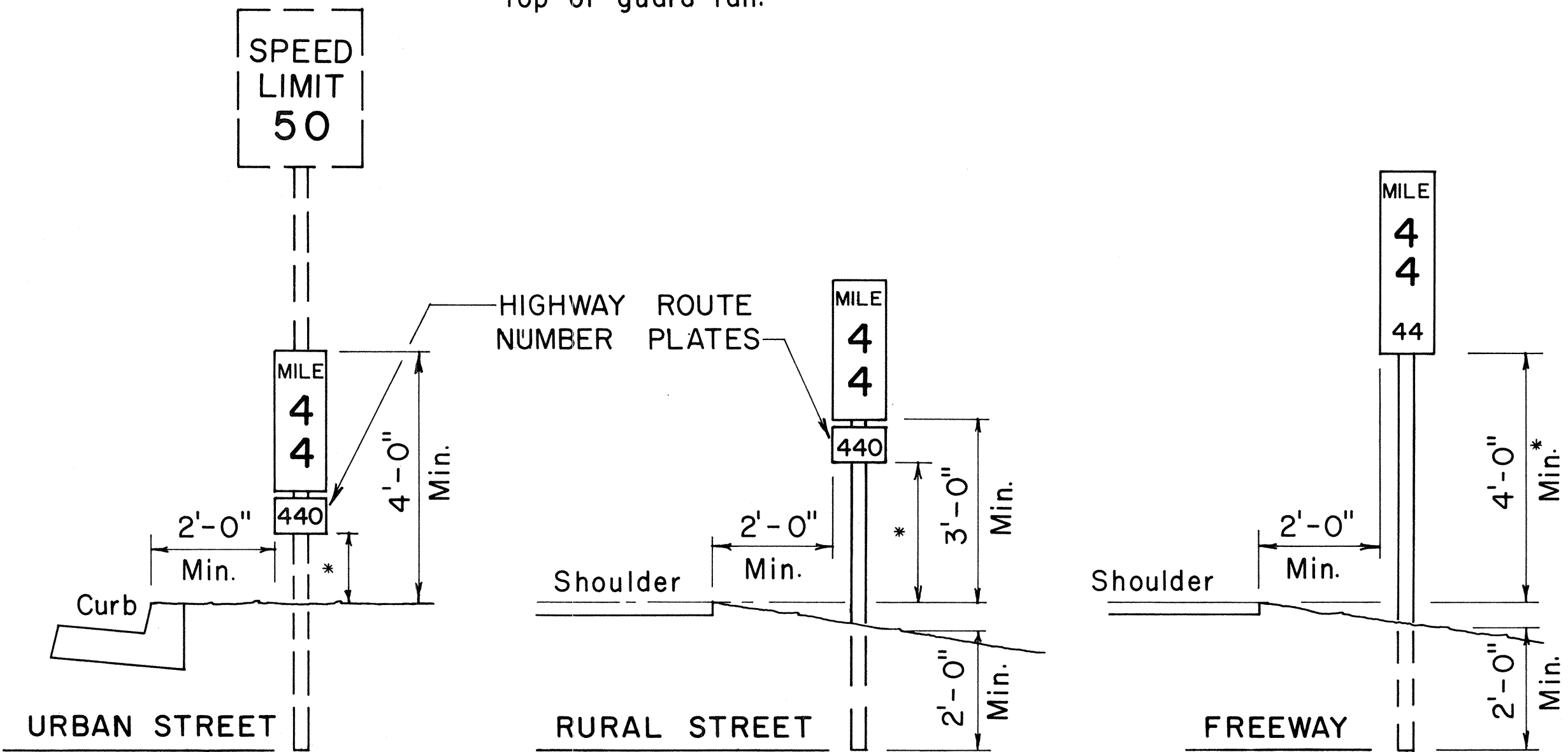


MILEPOST MARKER FRACTION DETAIL

Scale: 3/16" = 1"

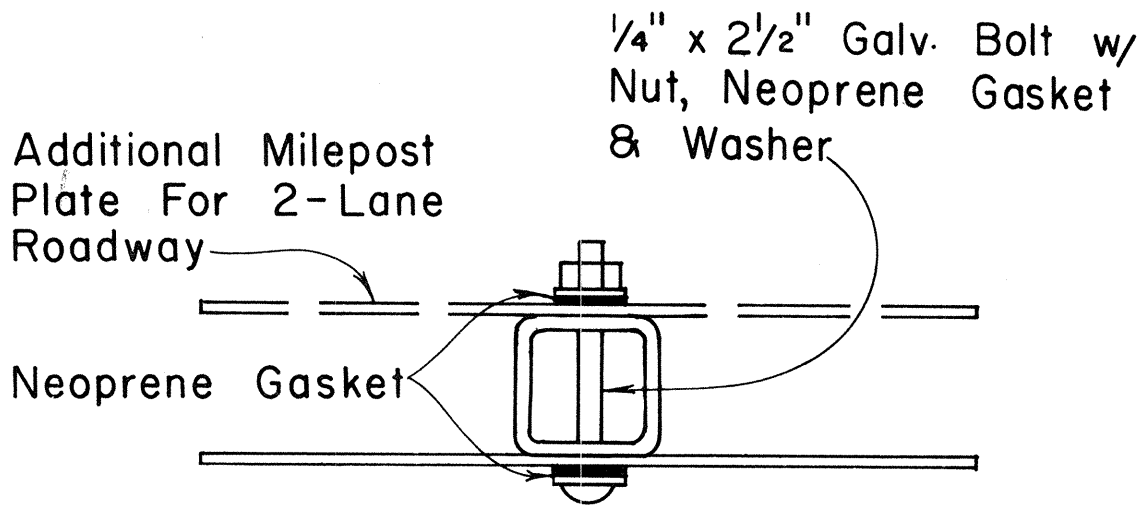
| MILEPOST PLATE SCHEDULE WITH FRACTION OF A MILE |           |     |    |    |    |                |
|-------------------------------------------------|-----------|-----|----|----|----|----------------|
| NAME                                            | SIZE      | G   | P  | Q  | S  | NUMERAL SERIES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

\*One-foot minimum clearance above top of guard rail.

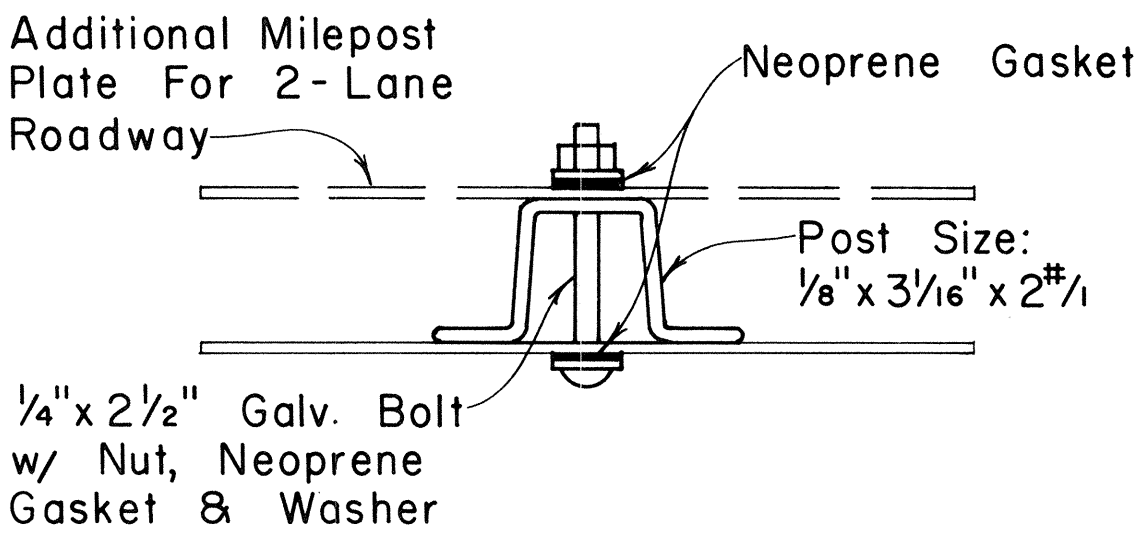


TYPICAL ROADSIDE INSTALLATION

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



GALVANIZED SQUARE TUBE POST



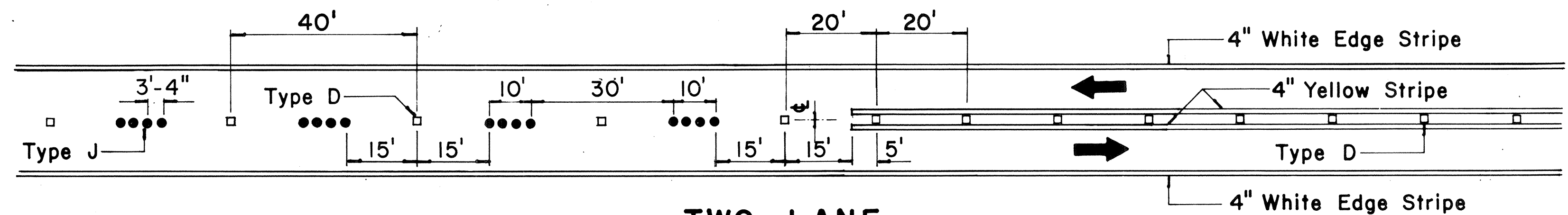
GALVANIZED FLANGED CHANNEL POST

TYPICAL MOUNTING DETAILS

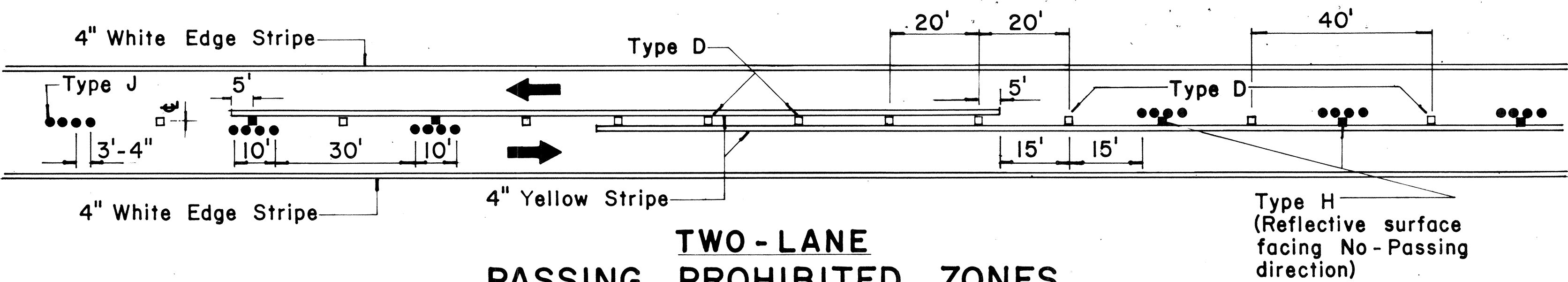
Scale: 1/2" = 1"

|                    |              |
|--------------------|--------------|
| SURVEY PLOTTED BY: | DATE:        |
| DRAWN BY:          | DESIGNED BY: |
| NOTED BY:          | CHECKED BY:  |
| ORIGINAL PLAN      | NO.          |

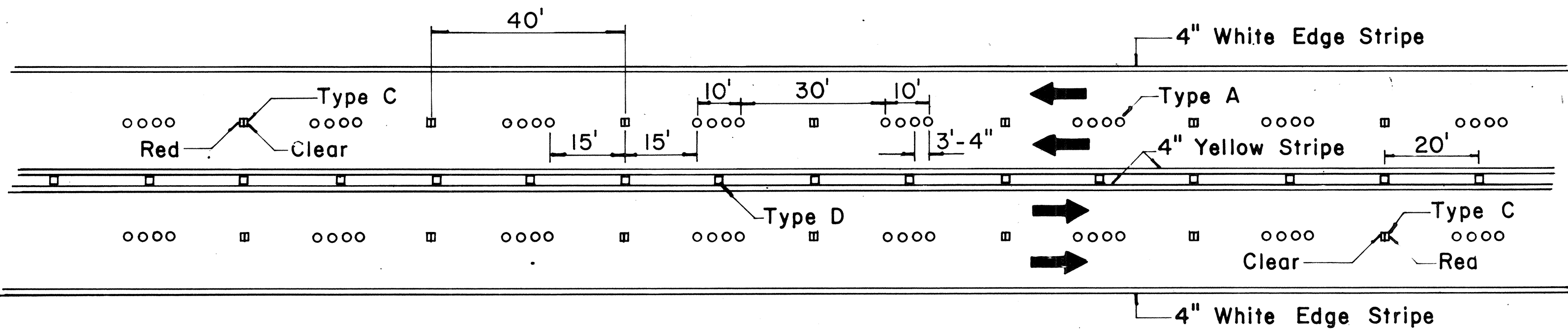
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HH-5-092-1(12)     | 1978        | 40        | 59           |



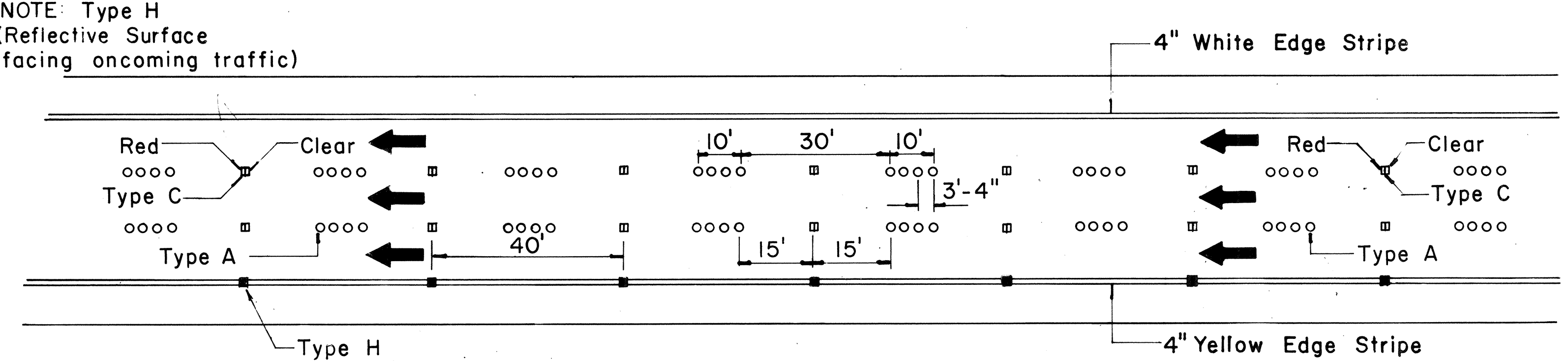
**TWO-LANE  
PASSING PERMITTED AND PASSING PROHIBITED**



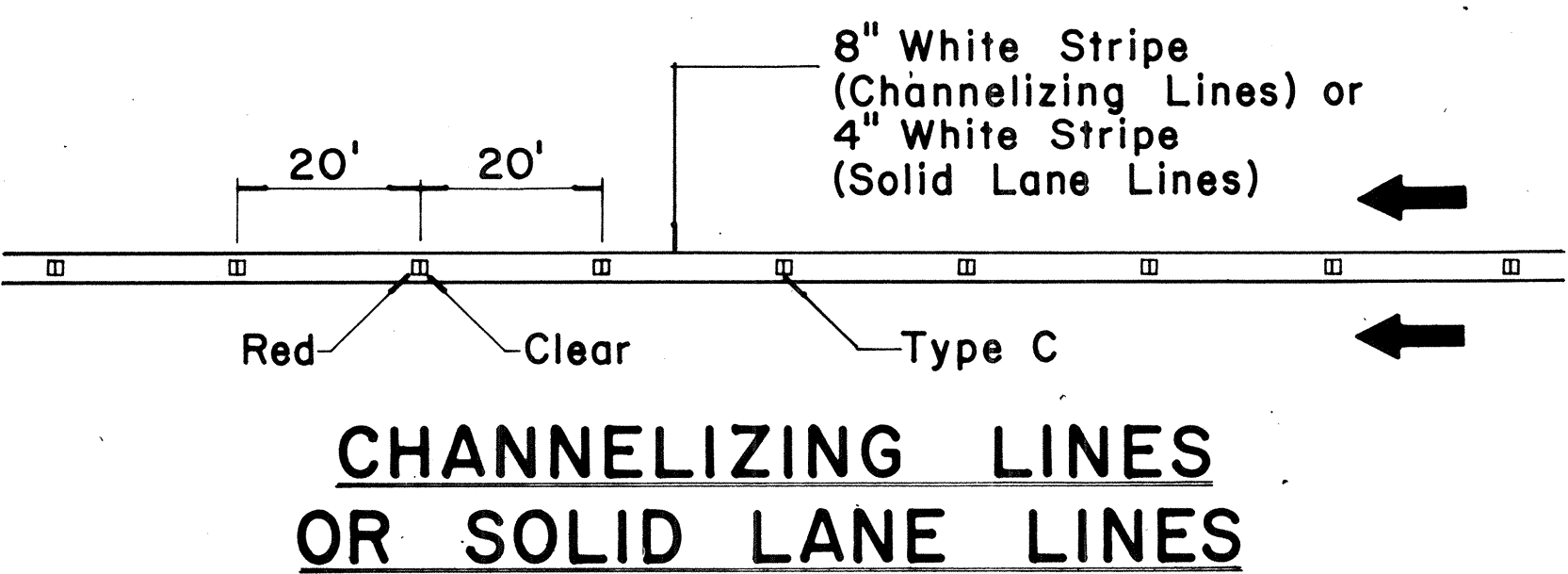
**TWO-LANE  
PASSING PROHIBITED ZONES**



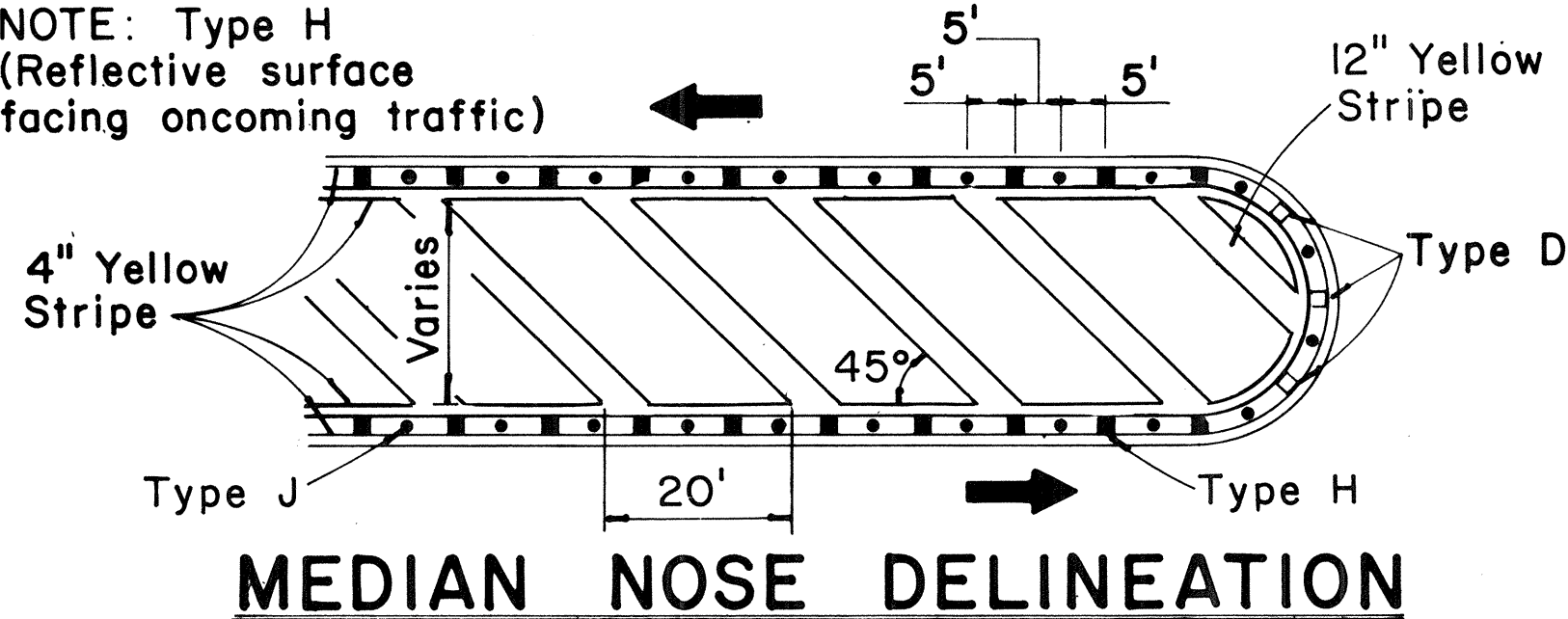
**MULTI-LANE  
LANE LINES AND CENTER LINE**



**DIVIDED HIGHWAY  
AND  
FREEWAY**



**CHANNELIZING LINES  
OR SOLID LANE LINES**

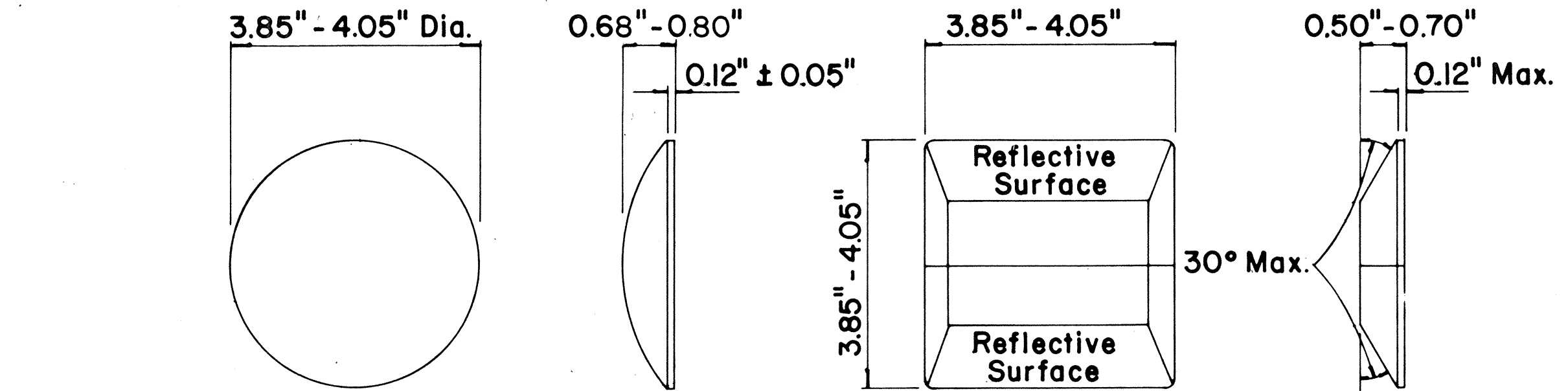


**MEDIAN NOSE DELINEATION**

**TWO - LANE**

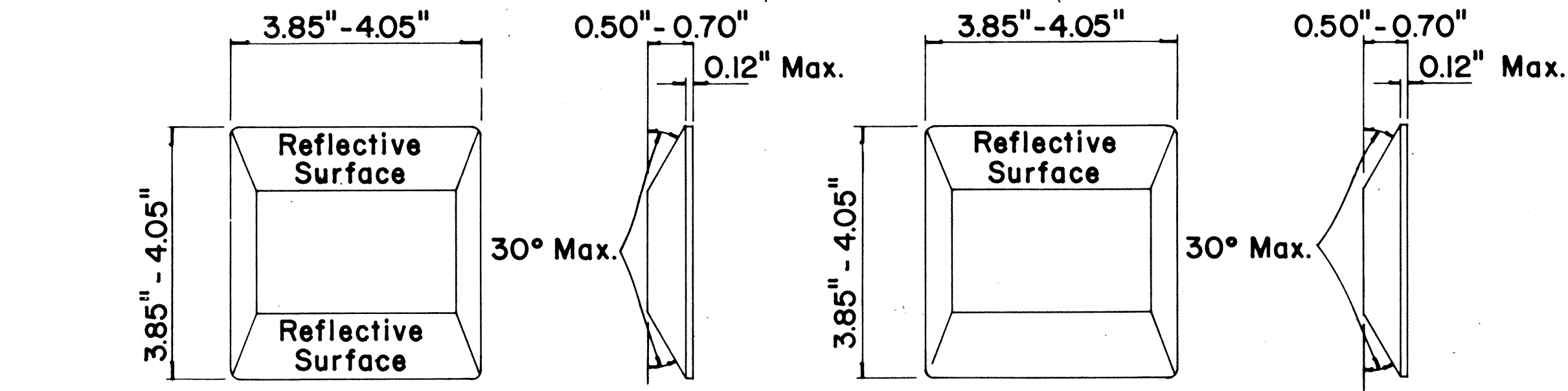
**MULTI - LANE**

**MISCELLANEOUS**



**TYPE A  
NON-REFLECTIVE WHITE MARKER**

**TYPE J  
NON-REFLECTIVE YELLOW 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:  
*E. J. Tanaka* 11/18/71  
TRAFFIC ENGINEER DATE

APPROVED:  
*Shirley S. Tanaka* 11/18/71  
ASSISTANT CHIEF, ENGINEERING DATE

| No. | REVISION                                                                                                                  | APPROVED BY | DATE     |
|-----|---------------------------------------------------------------------------------------------------------------------------|-------------|----------|
| 1   | Add reflector marker in each line gap.                                                                                    | H.T.        | 10-21-72 |
| 2   | Revised General Notes.                                                                                                    | H.T.        | 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.T.        | 5-22-74  |
| 4   | Revised details, General Notes & Title Box.                                                                               | H.T.        | 1-13-77  |
| 5   | Revised dimensions on Type A & J Markers                                                                                  | H.T.        | 4-18-78  |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION

**STANDARD DETAILS  
RAISED PAVEMENT MARKERS  
AND STRIPING**

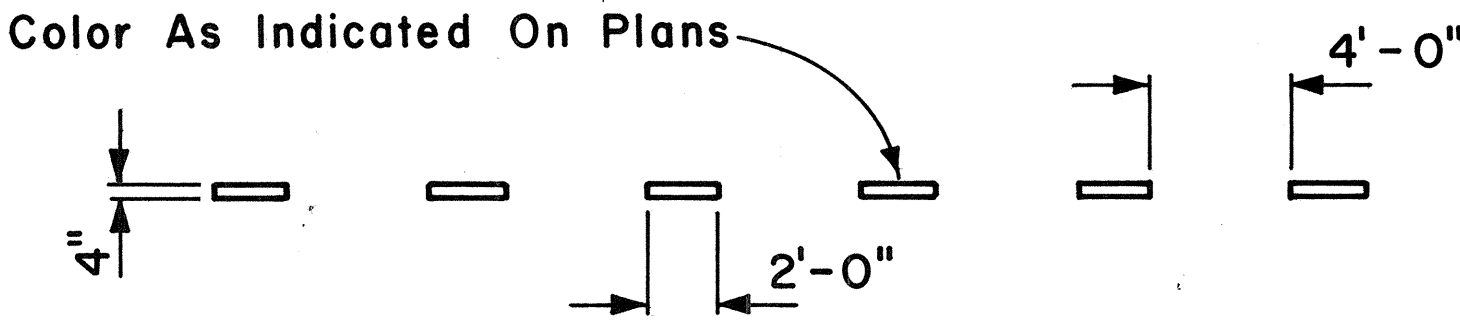
Not to Scale October 1971  
SHEET No. 40 OF 17 SHEETS DT 300

|               |          |
|---------------|----------|
| DATE          | 11/18/71 |
| DESIGNED BY   | H.T.     |
| DRAWN BY      | H.T.     |
| CHECKED BY    | H.T.     |
| ORIGINAL PLAN | No.      |
| NOTE BOOK     | No.      |

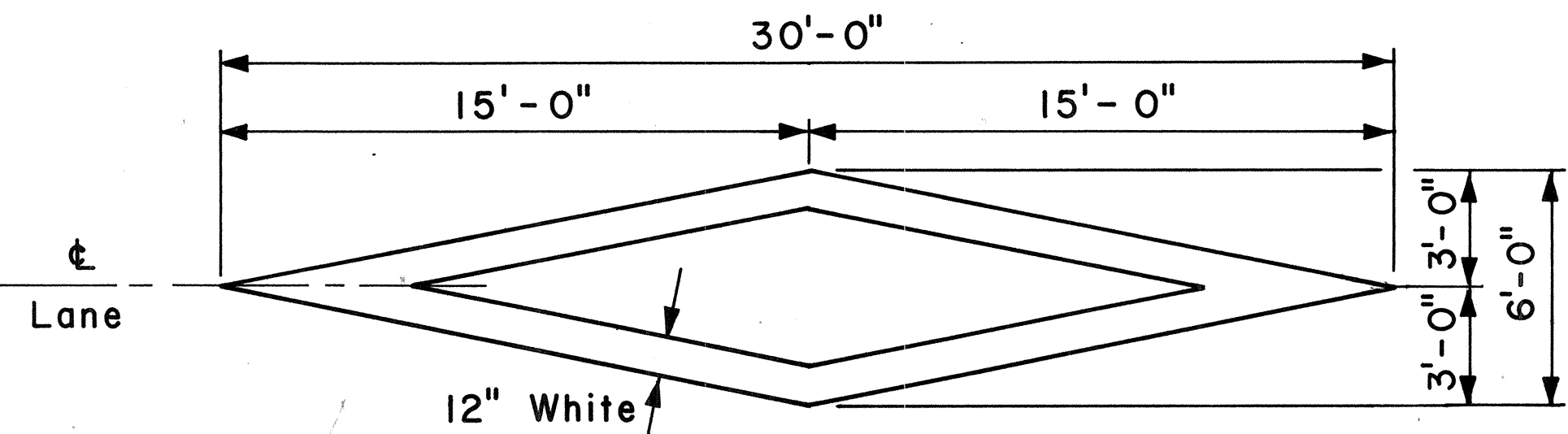
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HA-5-098-1(12)     | 1978        | 41        | 59           |

GENERAL NOTES:

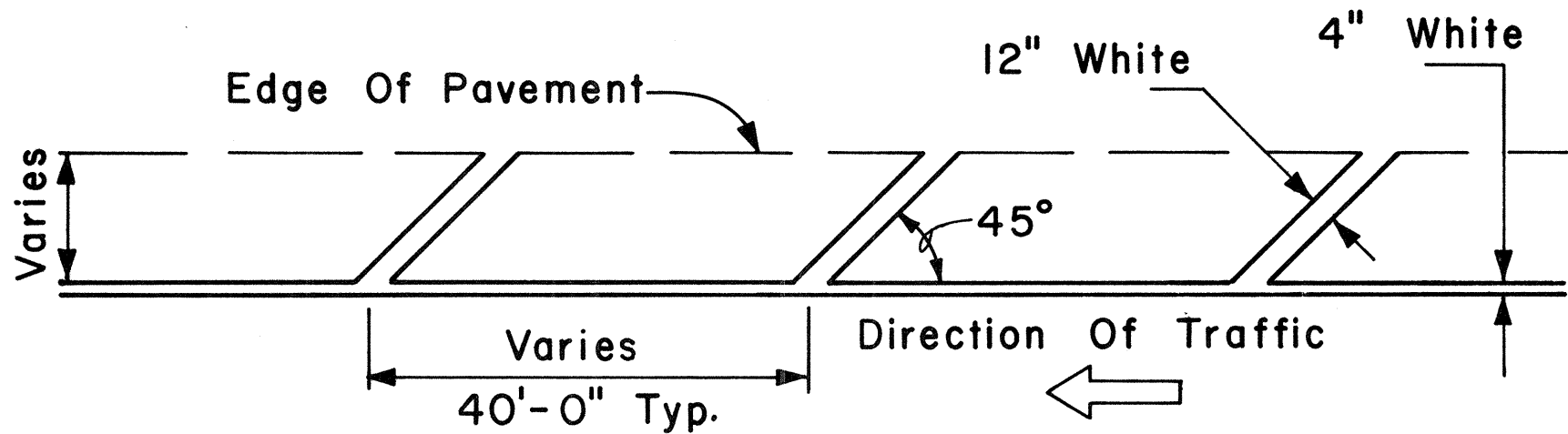
1. Pavement marking and striping shall conform to the latest edition of the "Manual on Uniform Traffic Control Devices for Streets and Highways," by the FHWA, and as amended.
2. Layout of pavement markings and striping shall be done by the Contractor. The Contractor shall check layout of markings and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



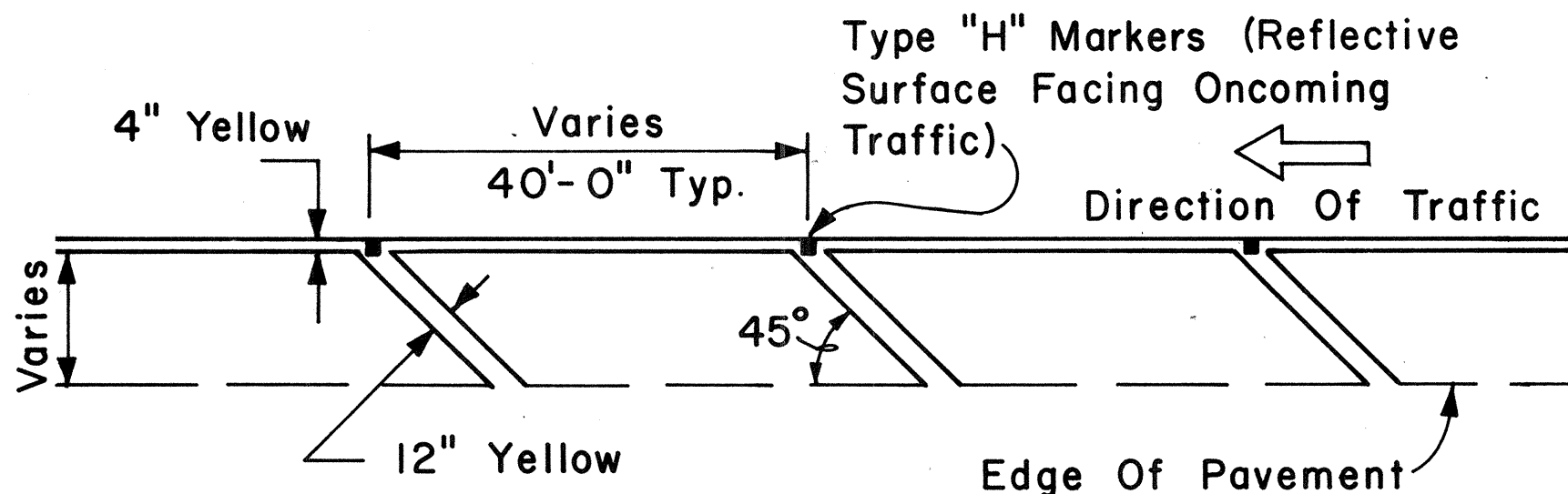
4" GUIDE LINE



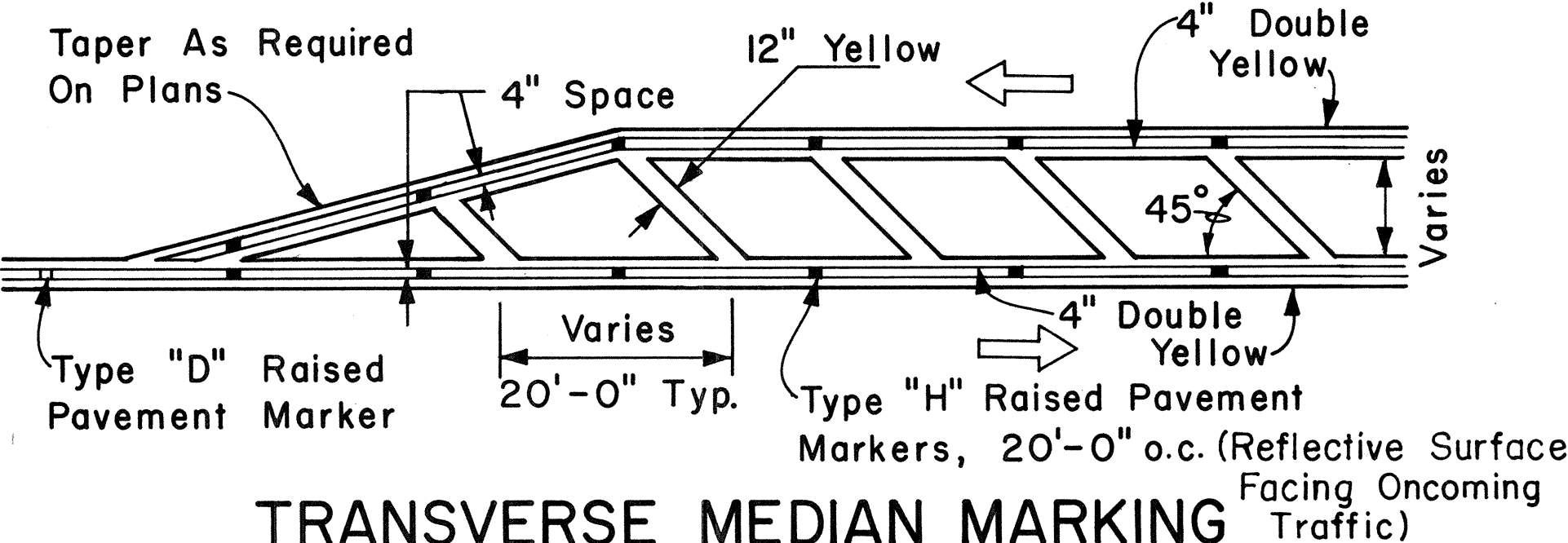
PAVEMENT DIAMOND



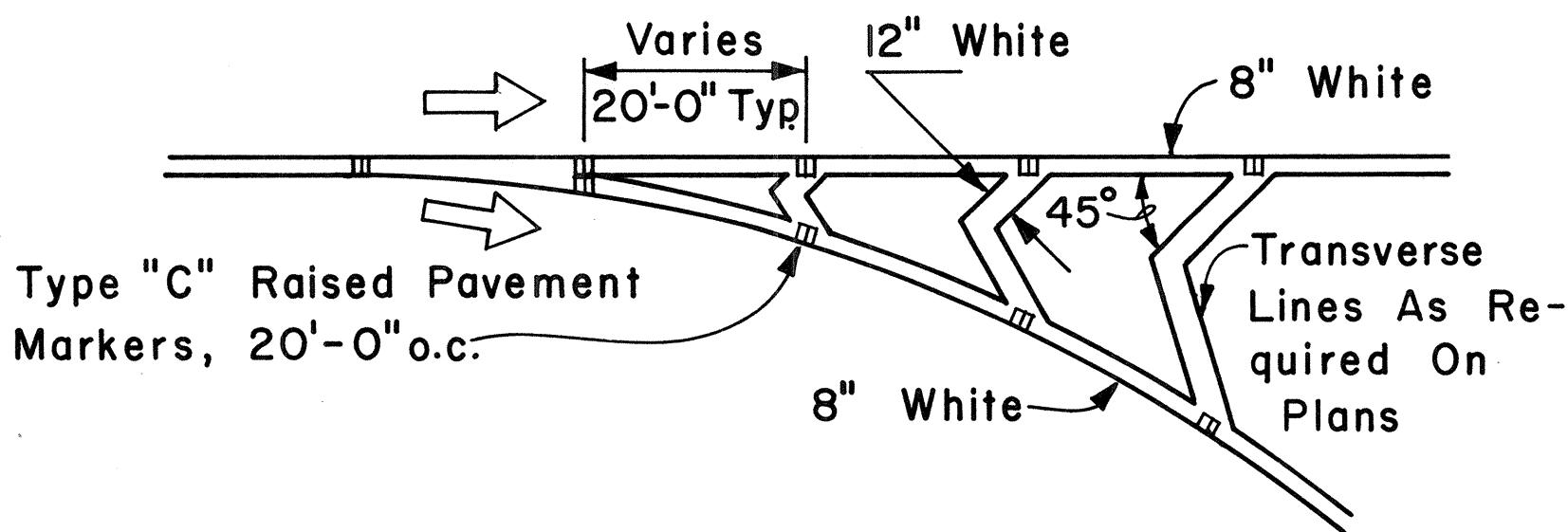
TRANSVERSE RIGHT SHOULDER MARKING



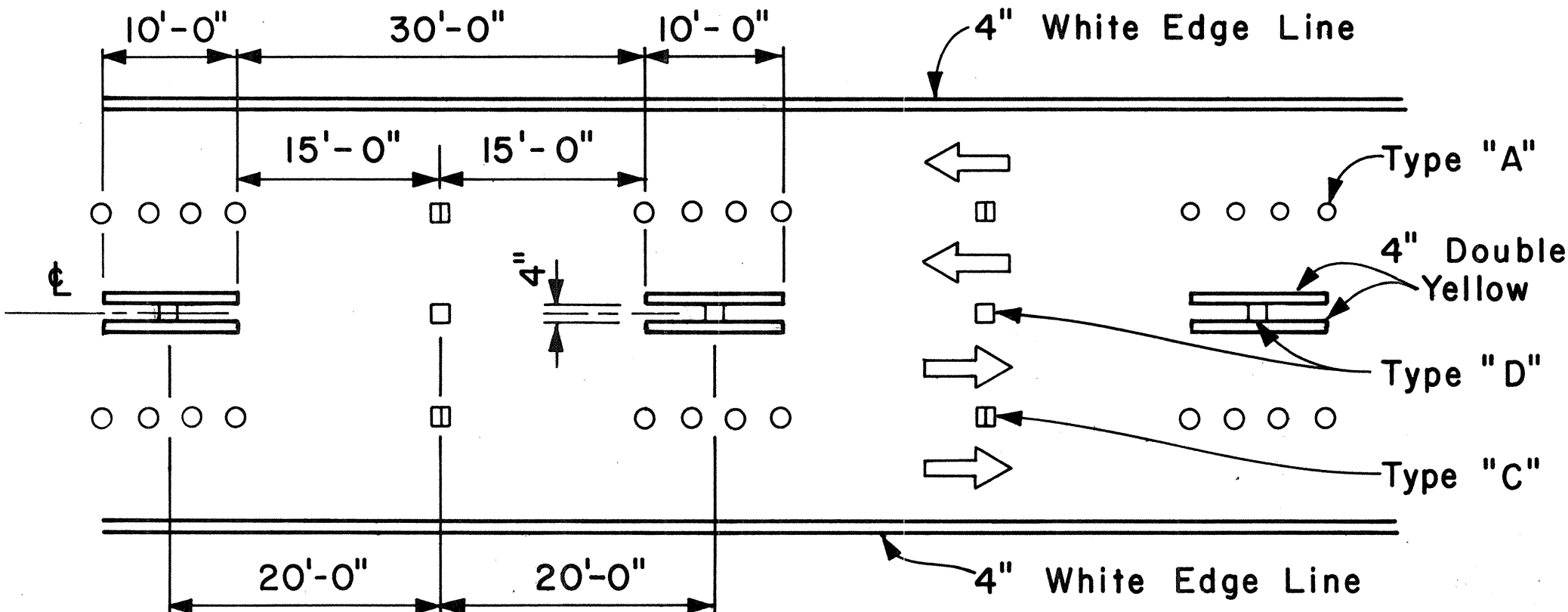
TRANSVERSE LEFT SHOULDER MARKING



TRANSVERSE MEDIAN MARKING

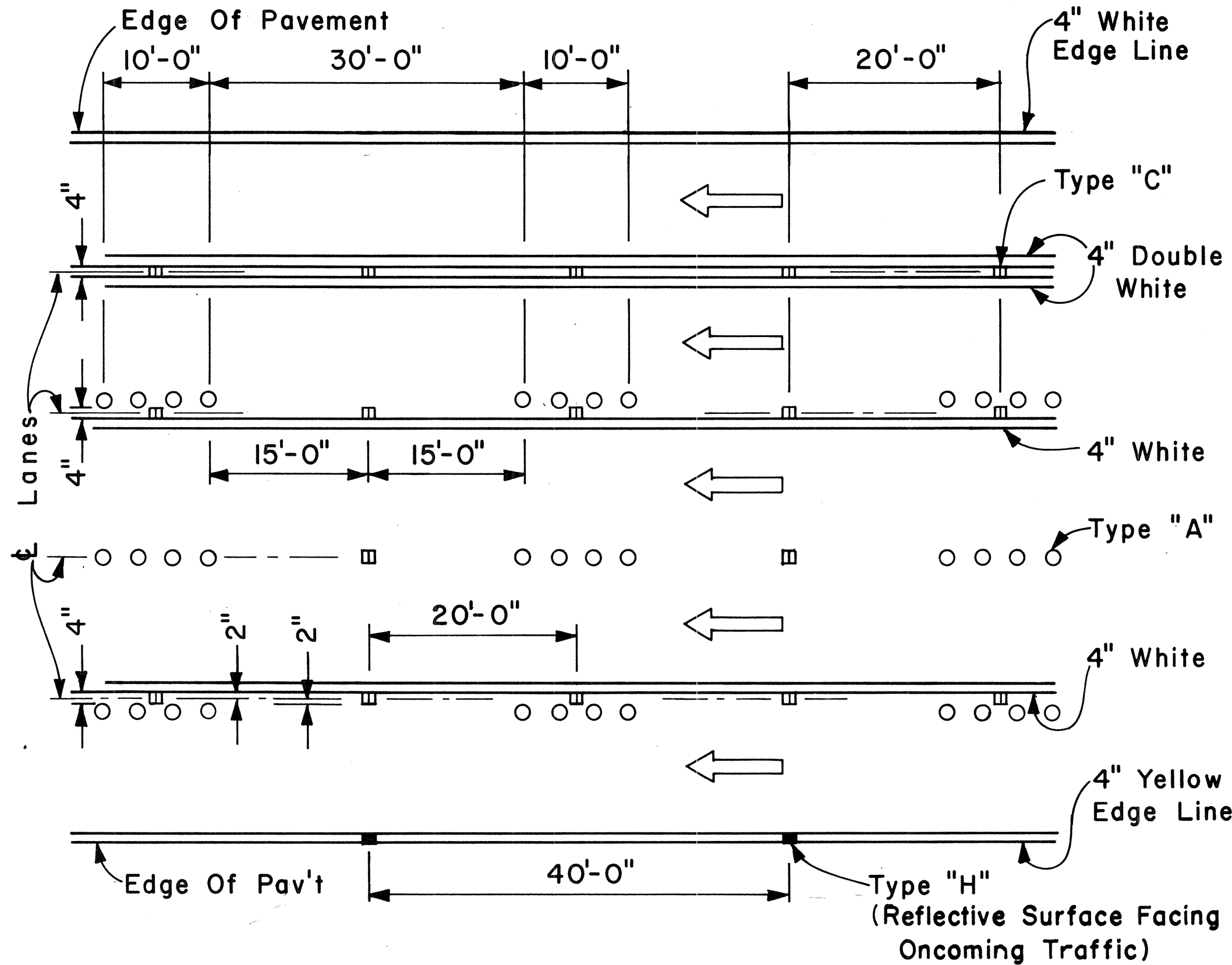


CHANNELIZING ISLAND



NOTE: Traffic Cone Usage Required.

MULTI-LANE REVERSIBLE LANES



MULTI-LANE LANE CHANGE RESTRICTION ZONES

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

APPROVED:  
*Harold S. Zaksch* 5/2/78  
ASSISTANT CHIEF, ENGINEERING DATE

| NO. | REVISION | APPROVED BY | DATE |
|-----|----------|-------------|------|
|     |          |             |      |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION

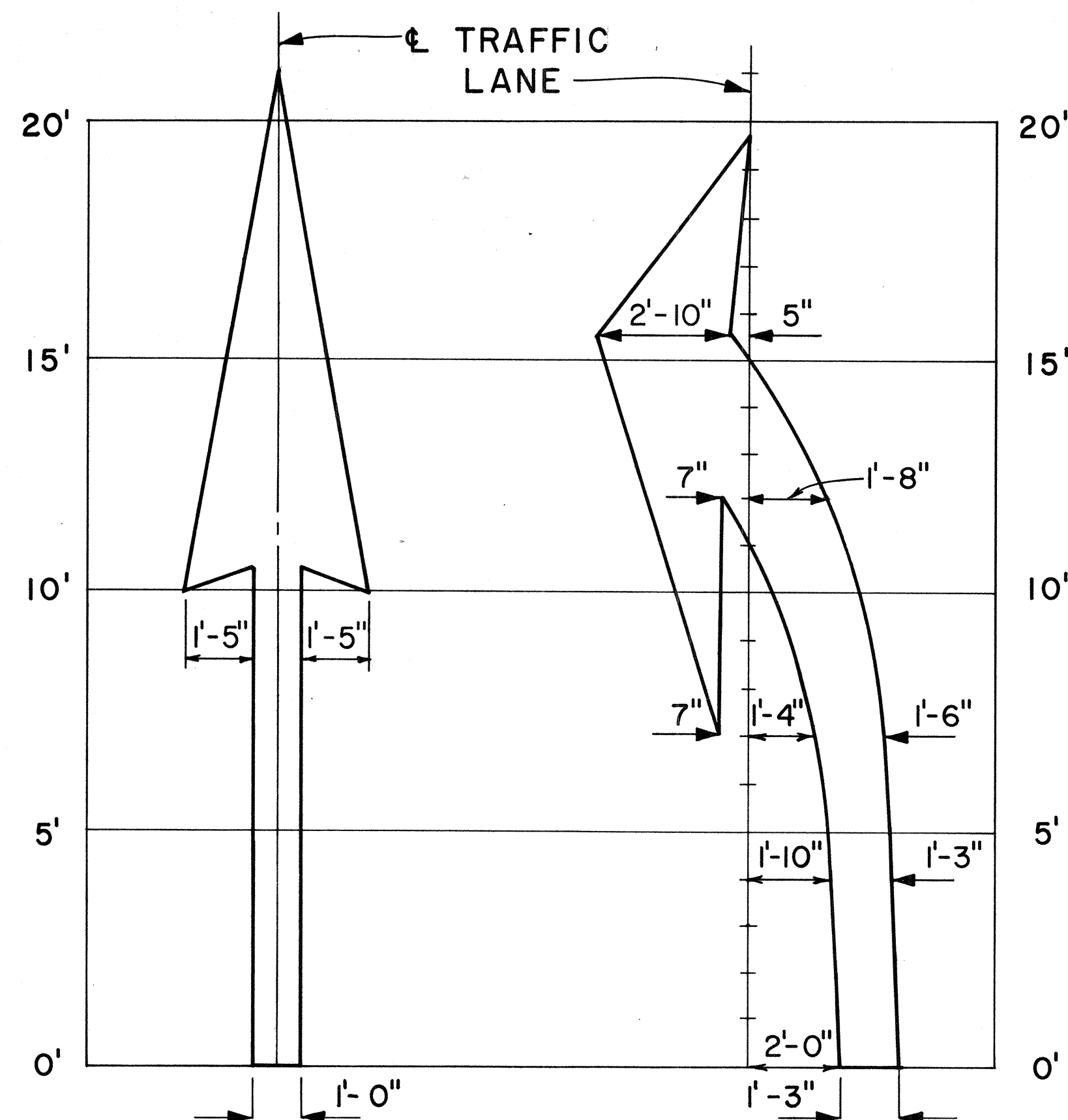
STANDARD DETAILS  
MISCELLANEOUS  
PAVEMENT MARKINGS

Scale: Not to Scale    Date: April, 1978  
SHEET No. 10 OF 17 SHEETS DT 302

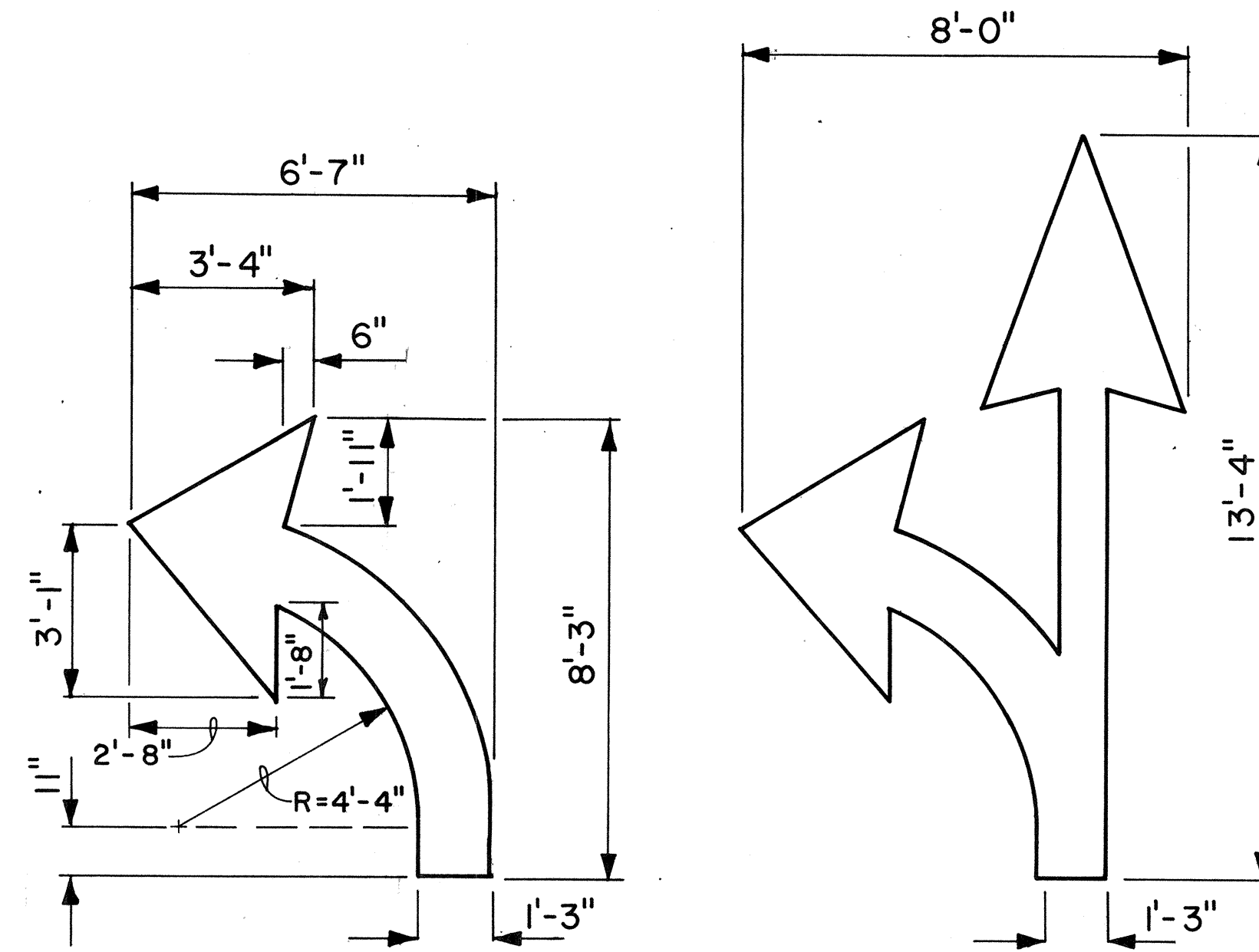
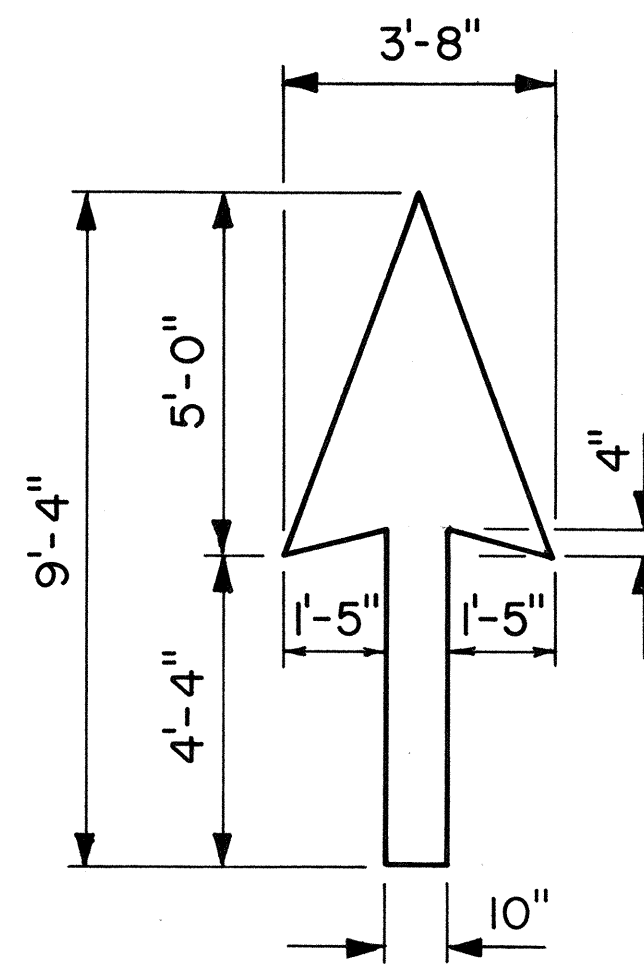
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HHS-092-1(12)      | 1978        | 42        | 50           |

### 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.



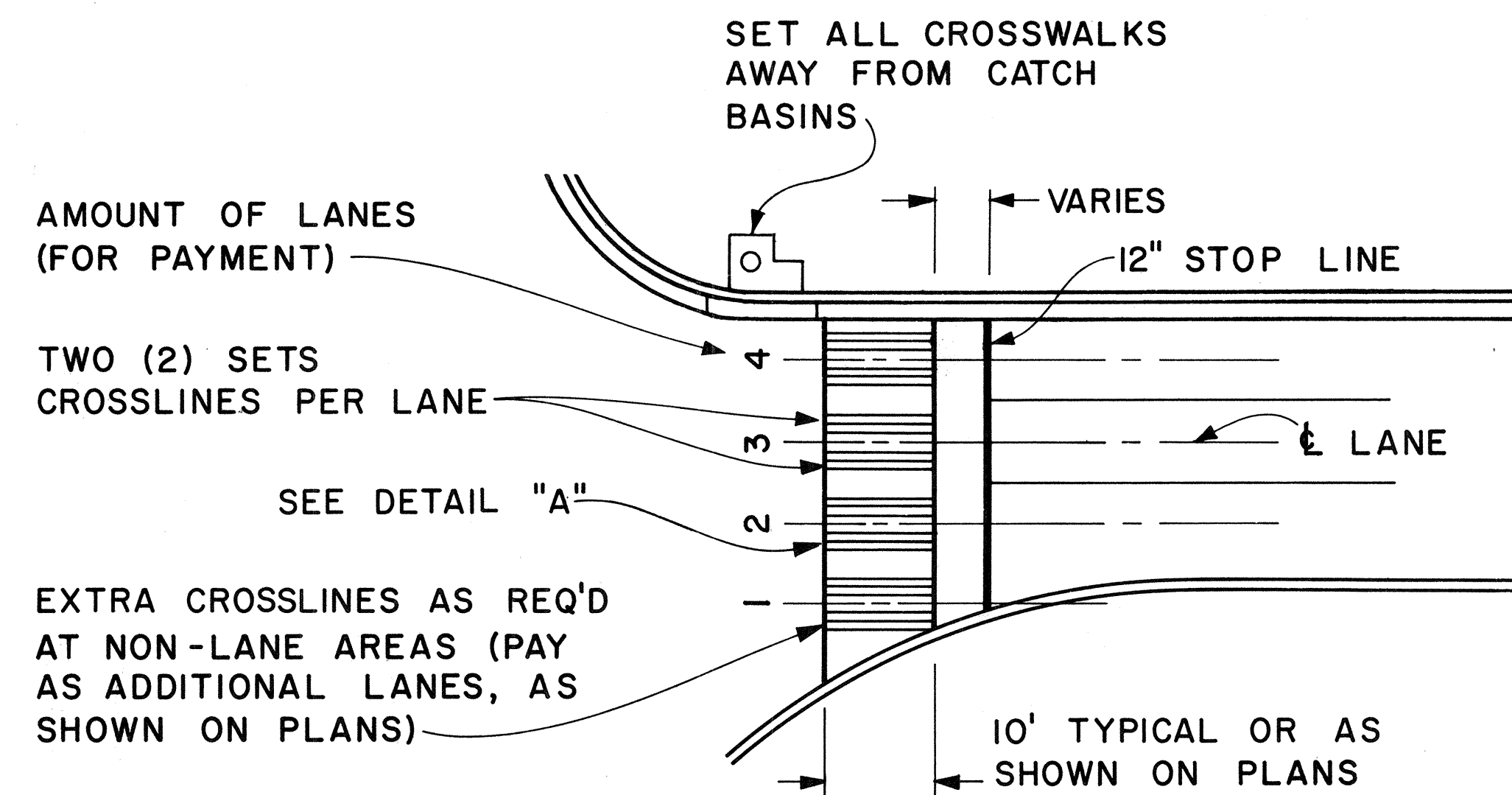
ELONGATED



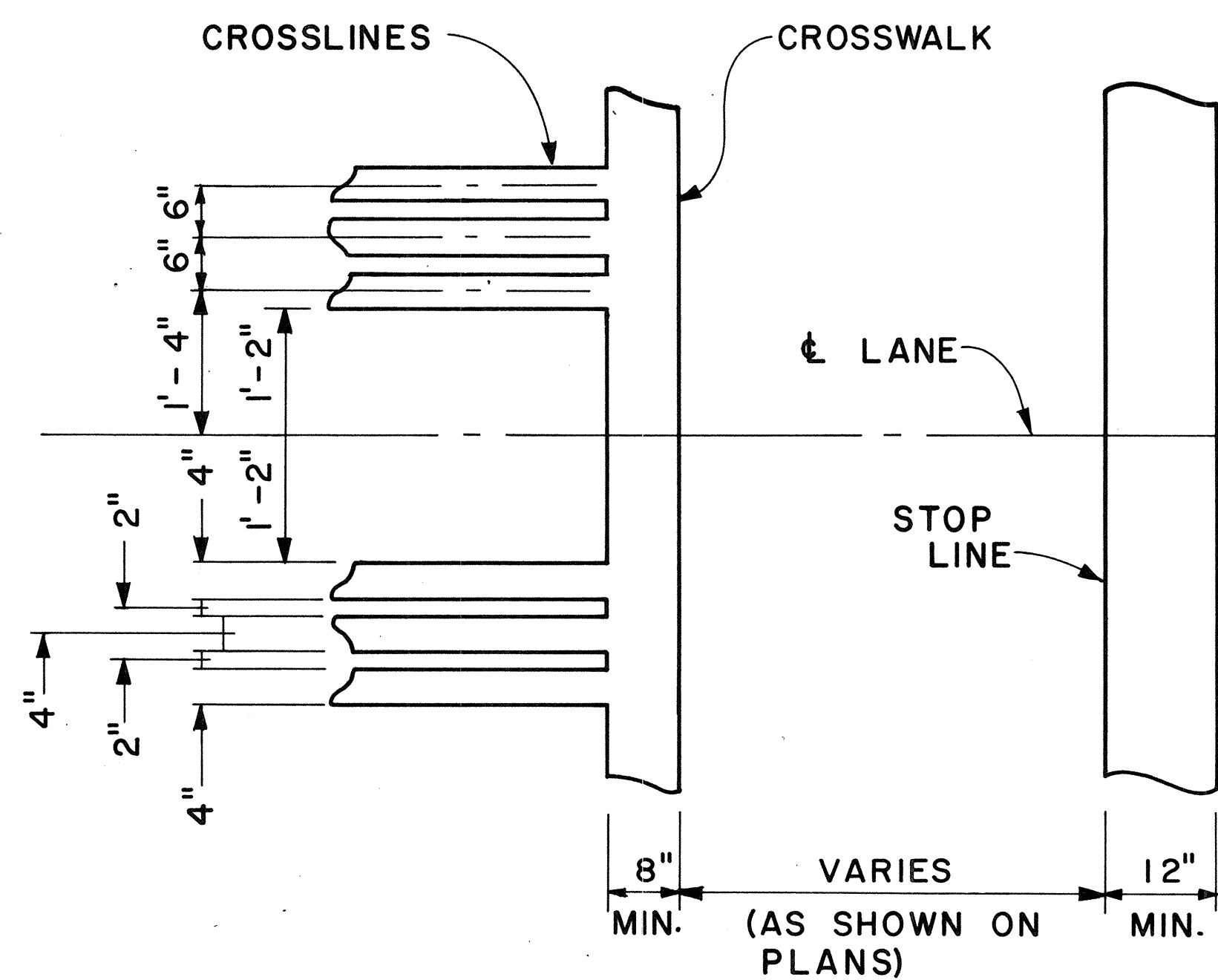
STANDARD

### PAVEMENT ARROWS

Scale: 3/8" = 1'



PLAN



DETAIL "A"

### CROSSWALK & STOP LINE

Scale: Not to Scale

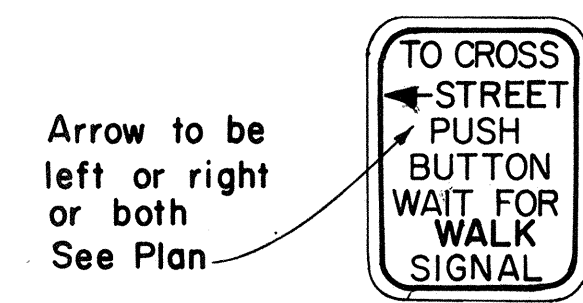
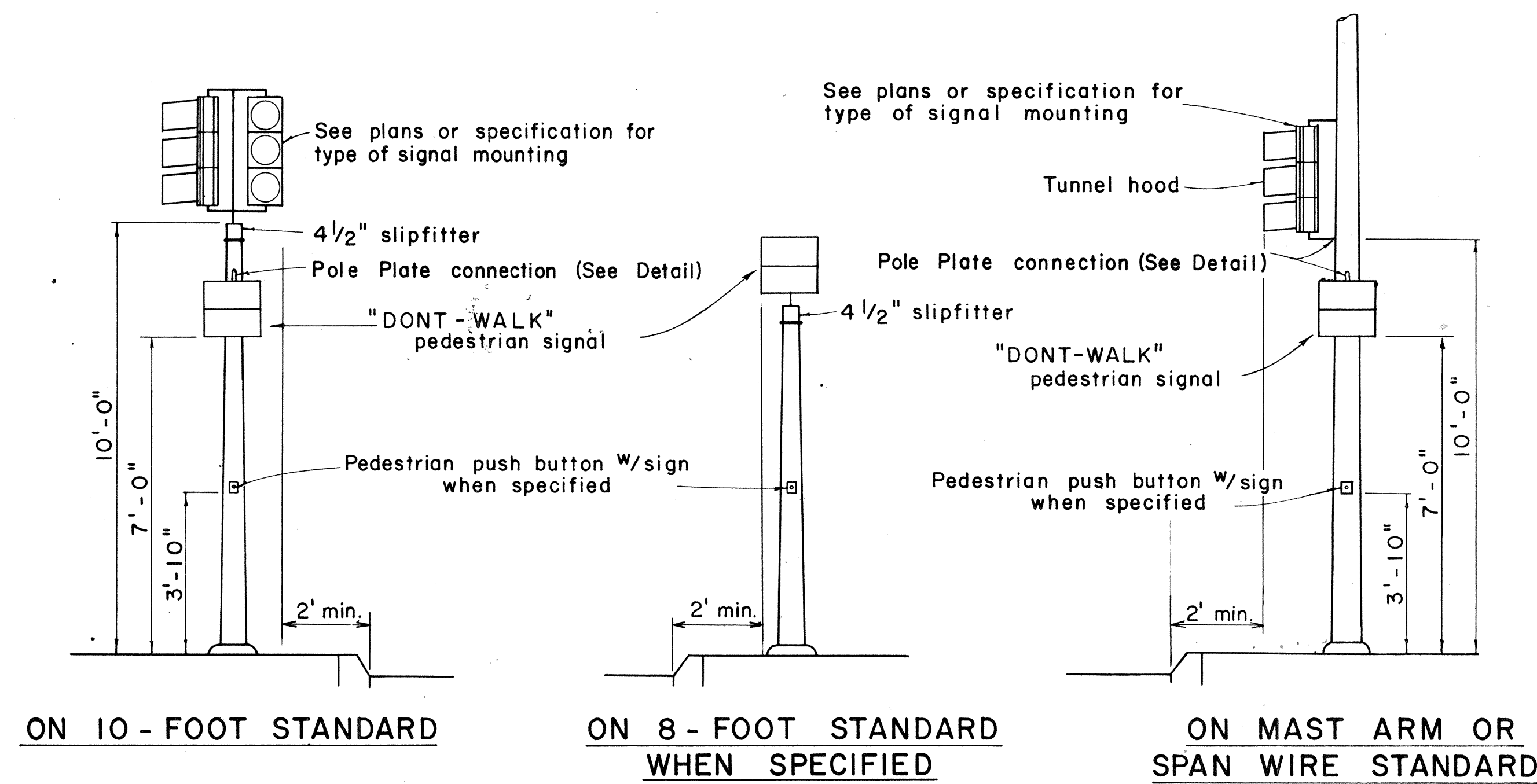
APPROVAL RECOMMENDED:  
*Eishi Tanaka* 5/2/78  
 TRAFFIC ENGINEER DATE

APPROVED:  
*Harold S. Zaksch* 5/2/78  
 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: As Shown Date: March, 1978  
 SHEET NO. 11 OF 17 SHEETS DT 306

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HHS-092-1 (12)     | 1978        | 43        | 59           |

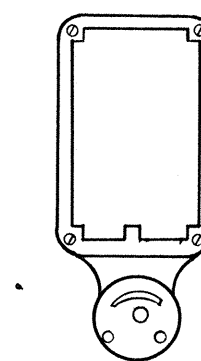


R10-4a(L)  
5" x 7"

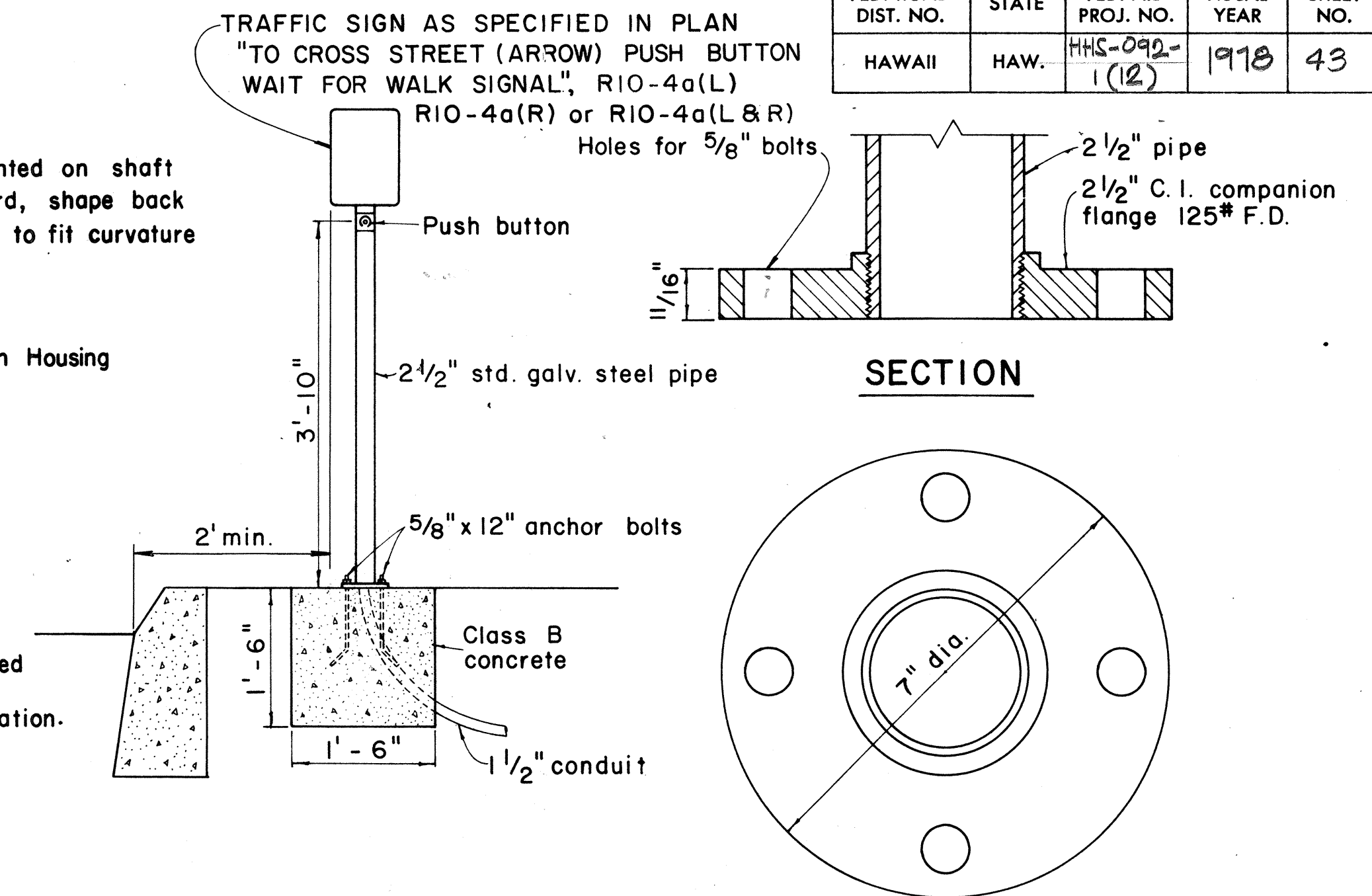
PEDESTRIAN  
PUSH BUTTON

**NOTE:**

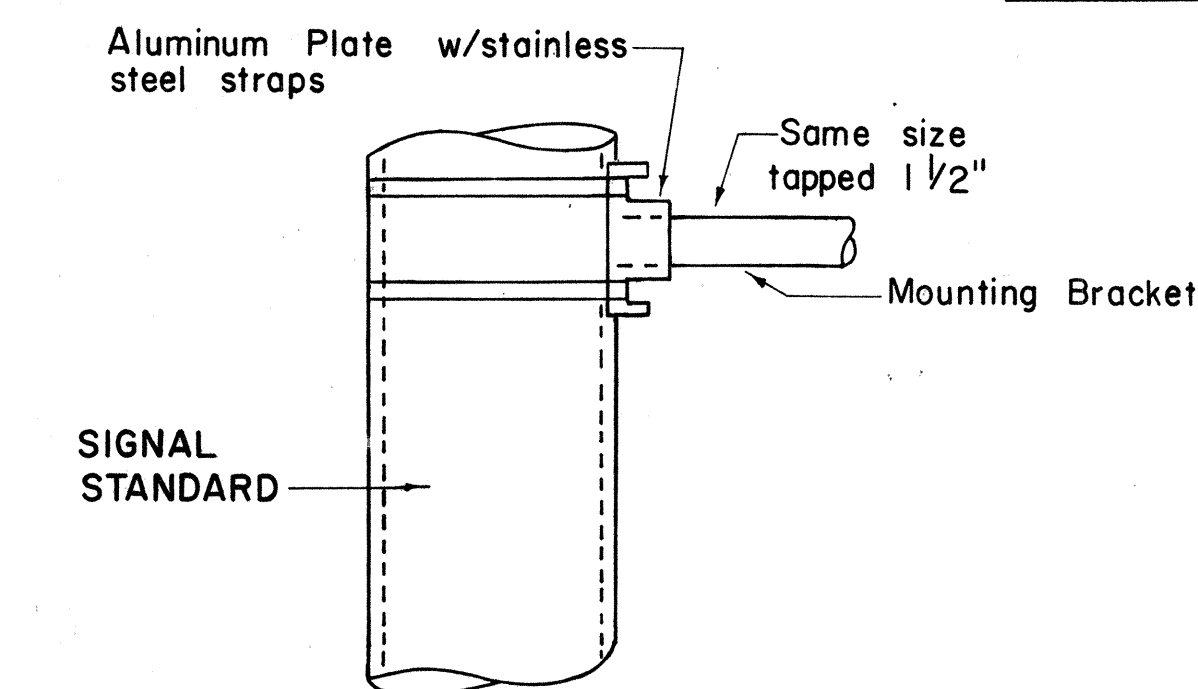
1. Conduits shall protrude 2" max. above finished surface of foundation.
2. Conduits shall slope away from pole foundation.



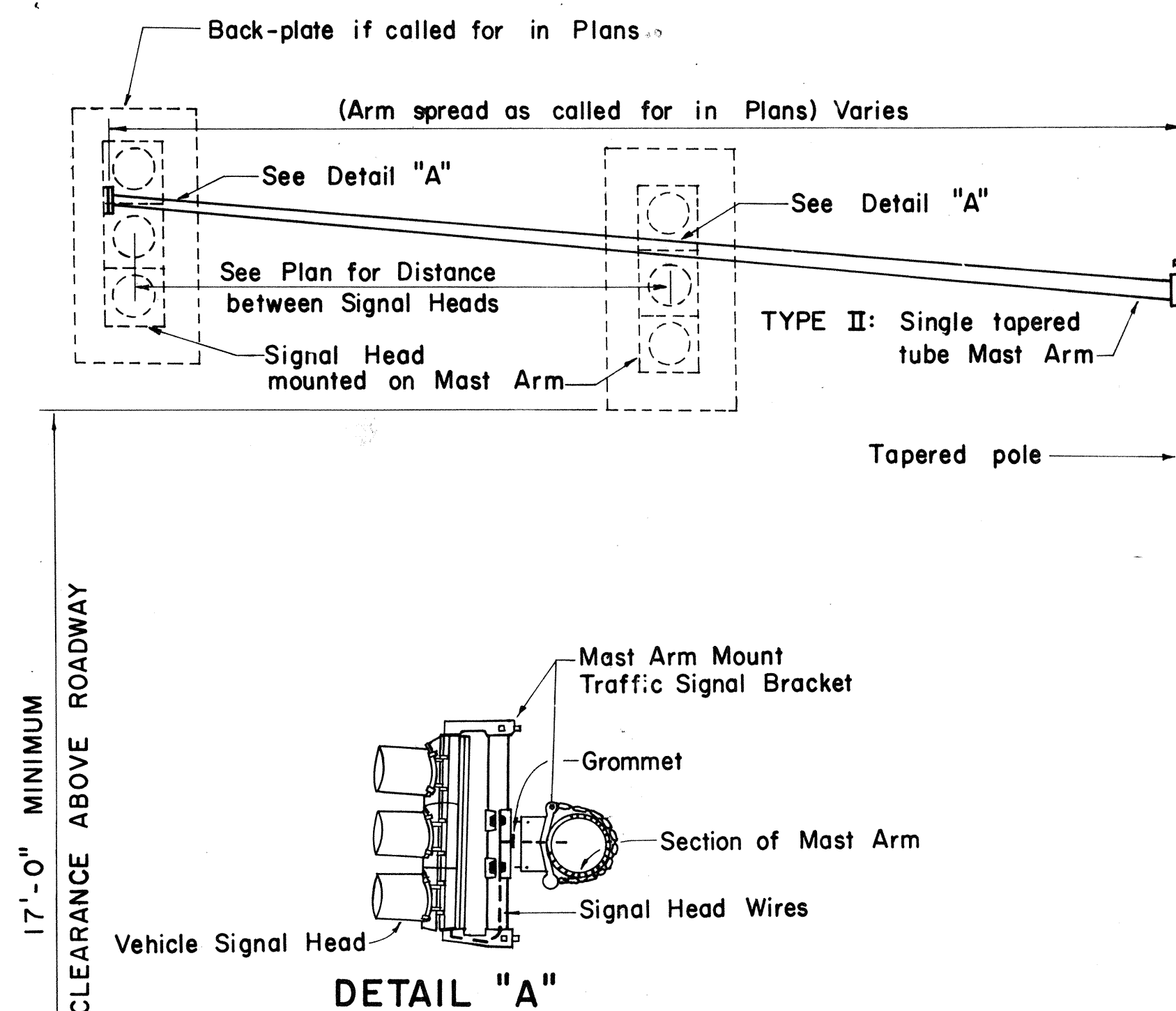
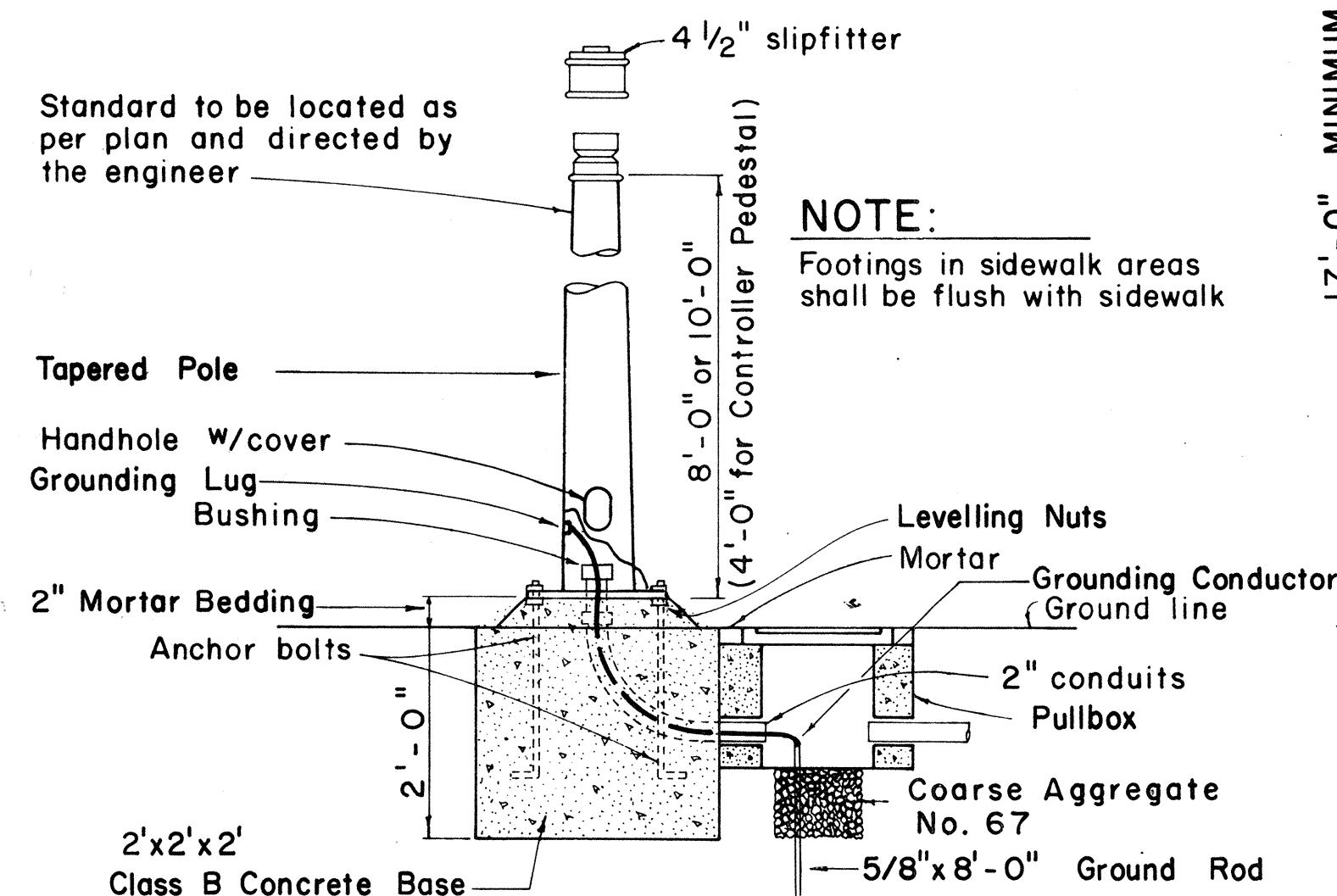
When mounted on shaft  
of Standard, shape back  
of Housing to fit curvature  
of Shaft



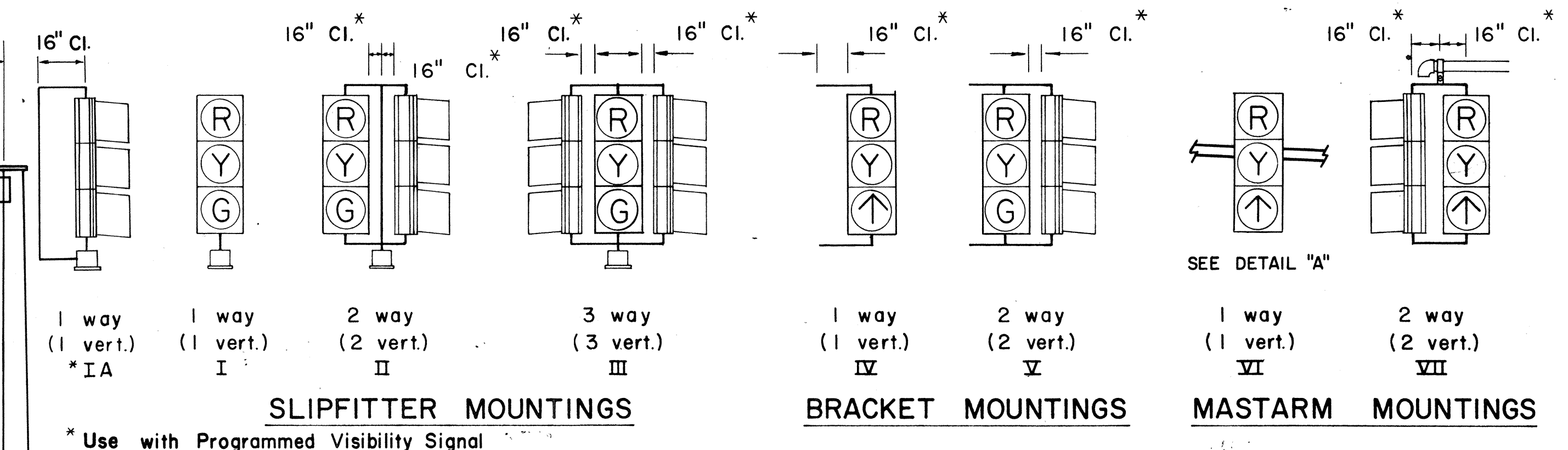
## TYPICAL EQUIPMENT MOUNTINGS



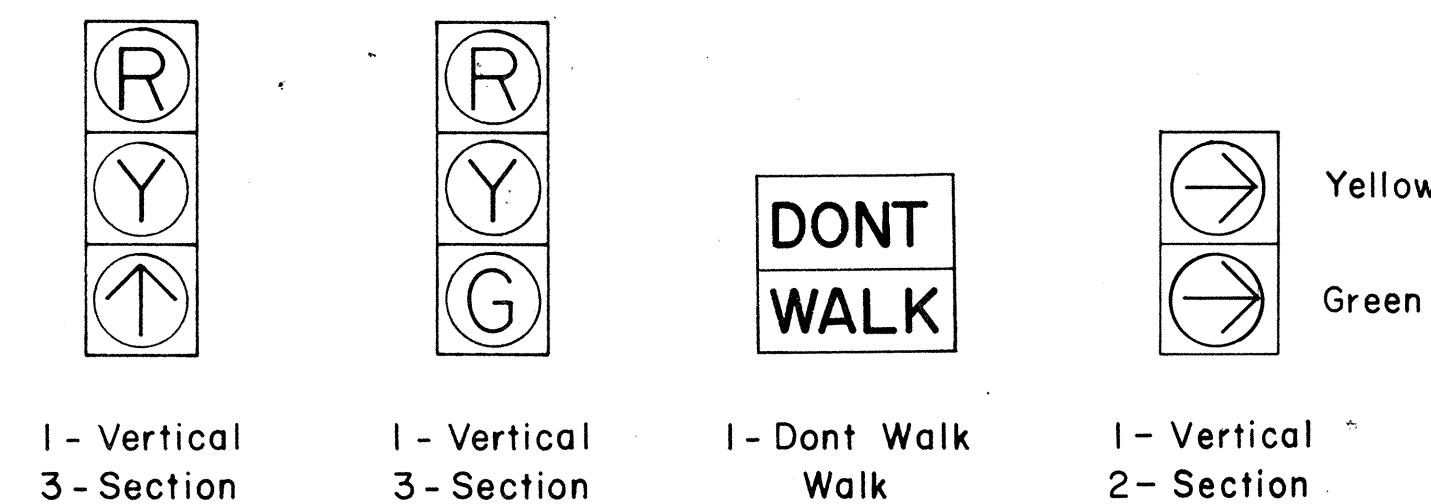
## DETAIL OF POLE PLATE CONNECTIONS



## TYPE II MAST ARM AND STANDARD



## TYPICAL VEHICULAR AND PEDESTRIAN SIGNAL MOUNTINGS



## TYPICAL SIGNAL ARRANGEMENTS

| NO | REVISION                                                                                          | APPROVED BY | DATE    |
|----|---------------------------------------------------------------------------------------------------|-------------|---------|
| 1  | Revise code nos. for Pedestrian Push Button signs.                                                | H.T.        | 3/23/11 |
| 2  | Revise Details of Traffic and Pedestrian Signals, Standards and Pedestrian Push Button and Signs. | H.T.        | 3/5/11  |
| 3  | Revise signal indications.                                                                        | H.T.        | 9/22/11 |
| 4  | Remove Note No.3 & Revise clearance and dimension.                                                | H.T.        | 9/19/11 |

APPROVAL RECOMMENDED:

Enchi Tanaka 12/29/69  
TRAFFIC ENGINEER DATE

12/30/59  
DATE

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION

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**TRAFFIC SIGNAL SYSTEM**

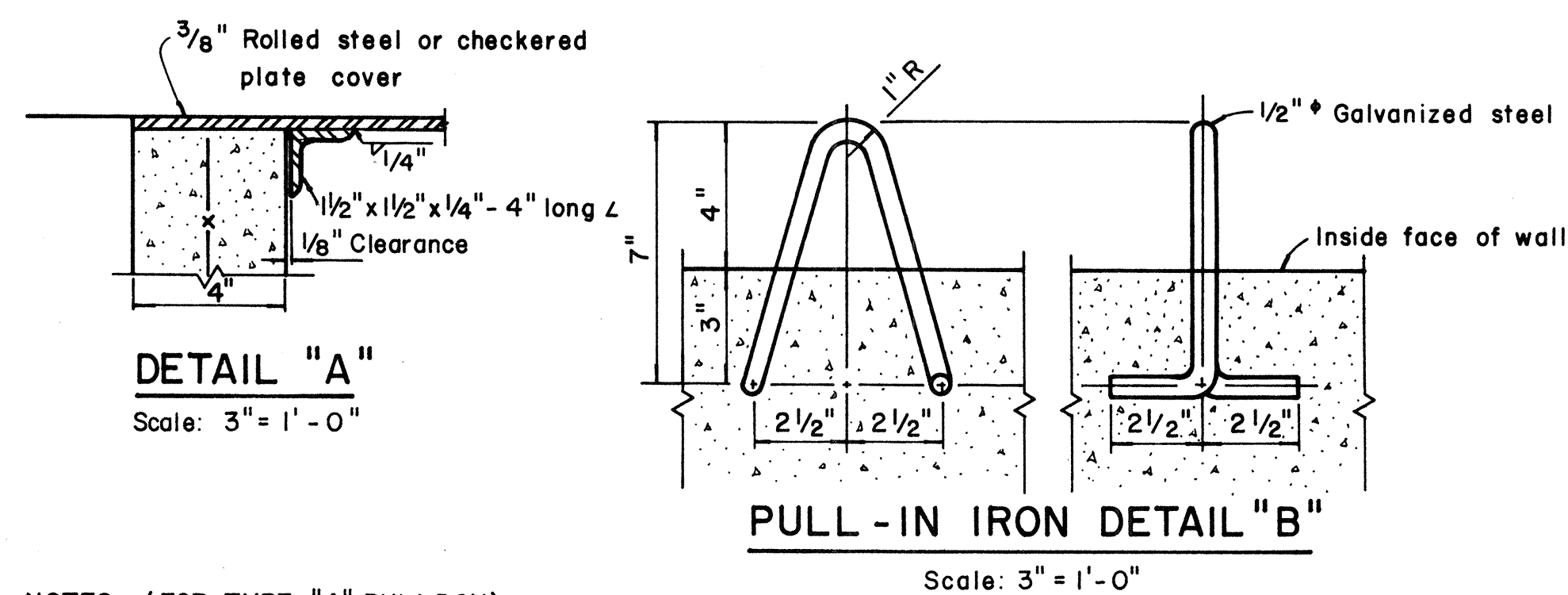
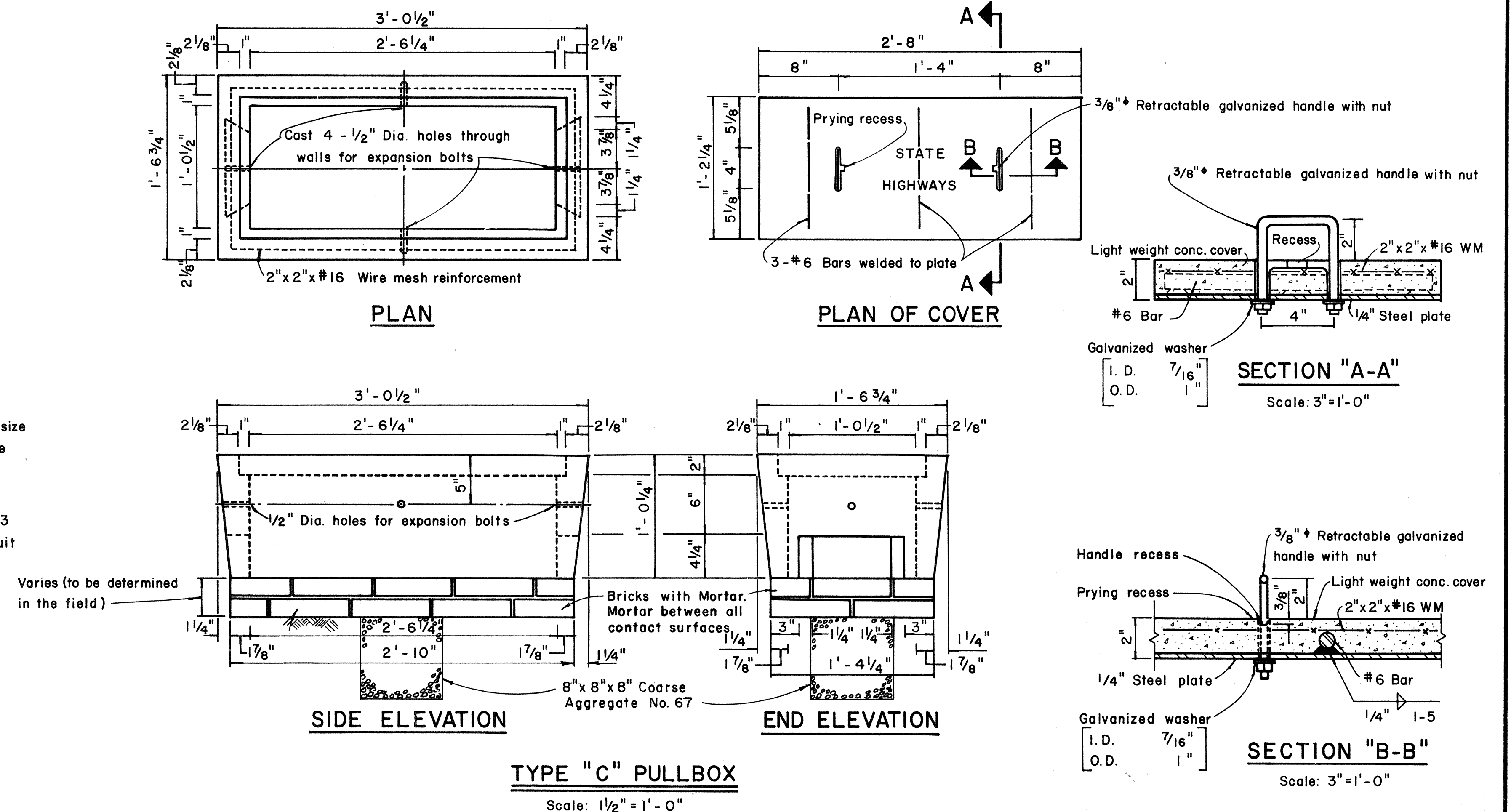
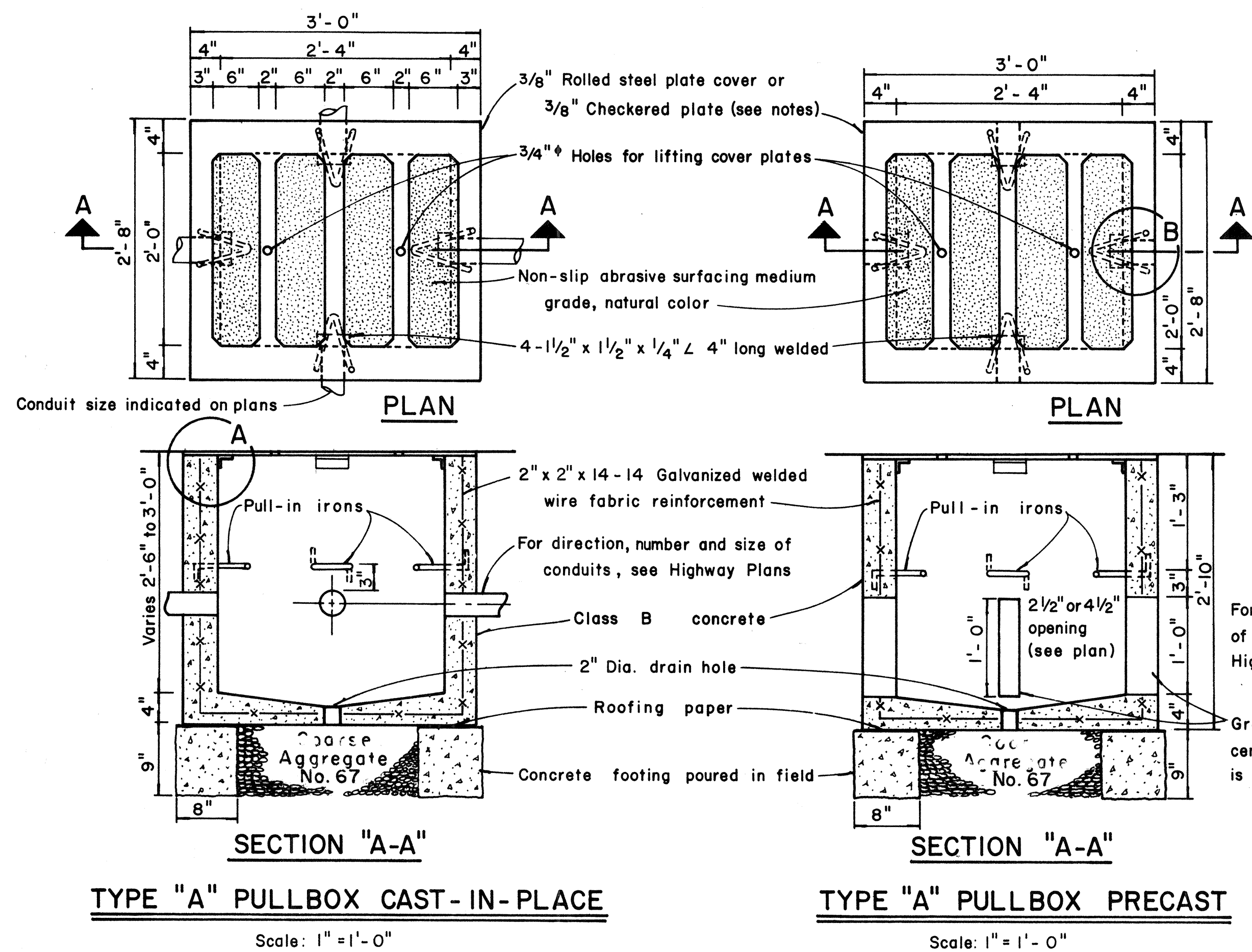
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MISCELLANEOUS DETAILS

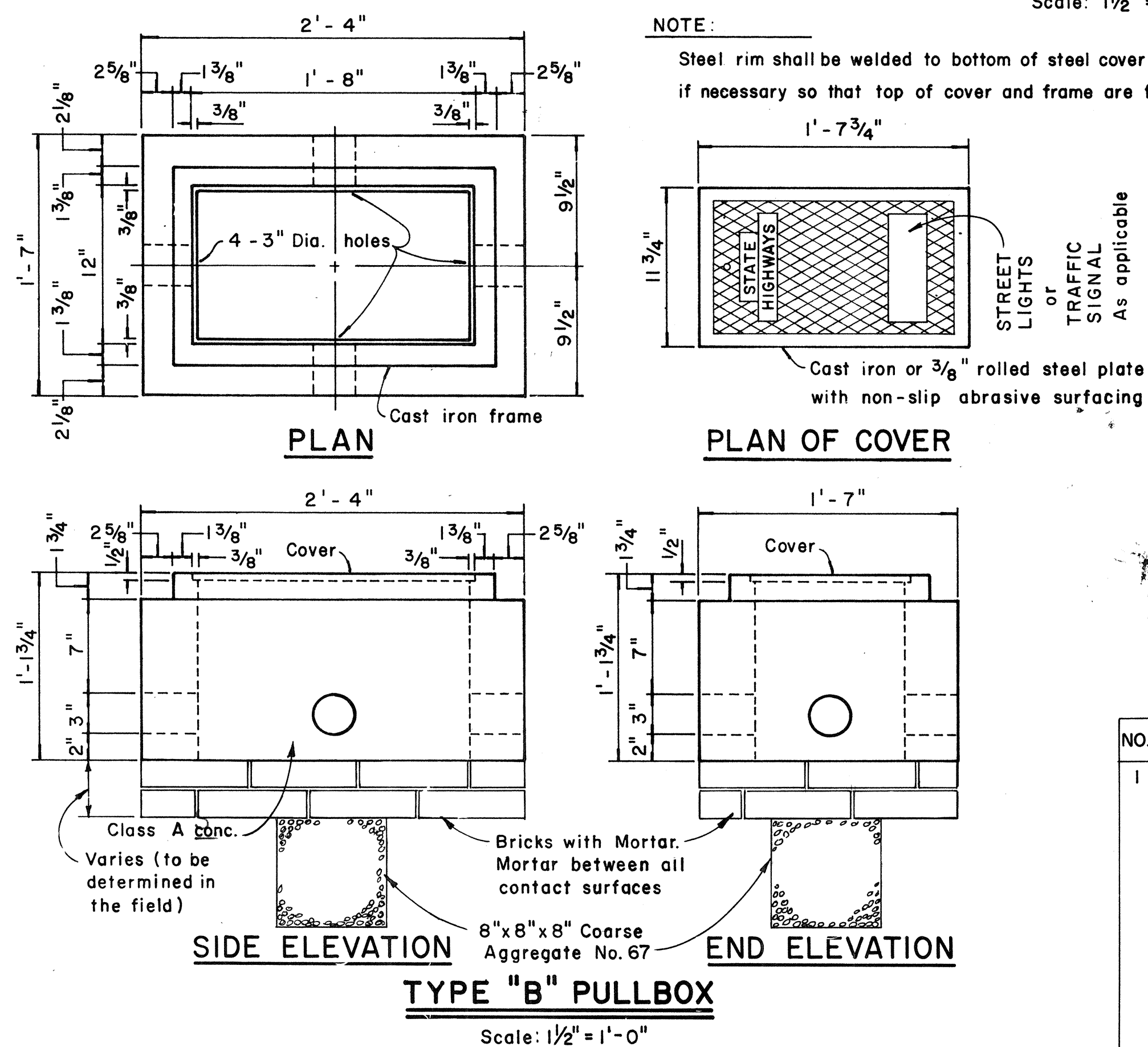
Not to Scale

**SHEET No. 12 OF 17 SHEETS DT 400**

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HHS-092-1(12)      | 1918        | 44        | 50           |



- NOTES: (FOR TYPE "A" PULLBOX)
1. 3/8" Rolled steel plate cover with non-slip abrasive surfacing medium grade, natural color shall be used on all pullboxes located on sidewalk areas where pedestrians are walking.
  2. 3/8" Checkered plate cover shall be used on all pullboxes located in median areas and other locations where there are no pedestrians walking.
  3. Pull irons shall be placed opposite each conduit slot.
  4. Covers on all pullboxes located in sidewalk areas shall be set flush with the concrete sidewalk.
  5. Each pullbox shall have a pair of pull irons opposite each other for lifting purposes.

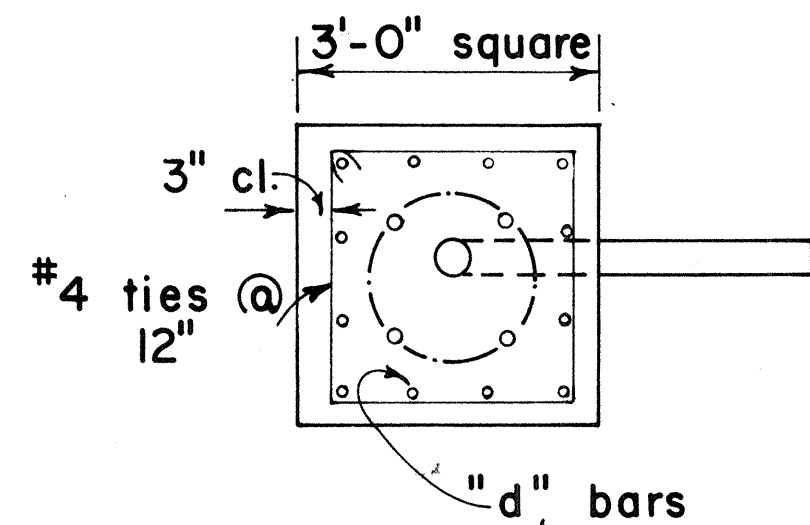


APPROVAL RECOMMENDED:  
*Erica Tanaka*  
 TRAFFIC ENGINEER  
 DATE: 12/1/62

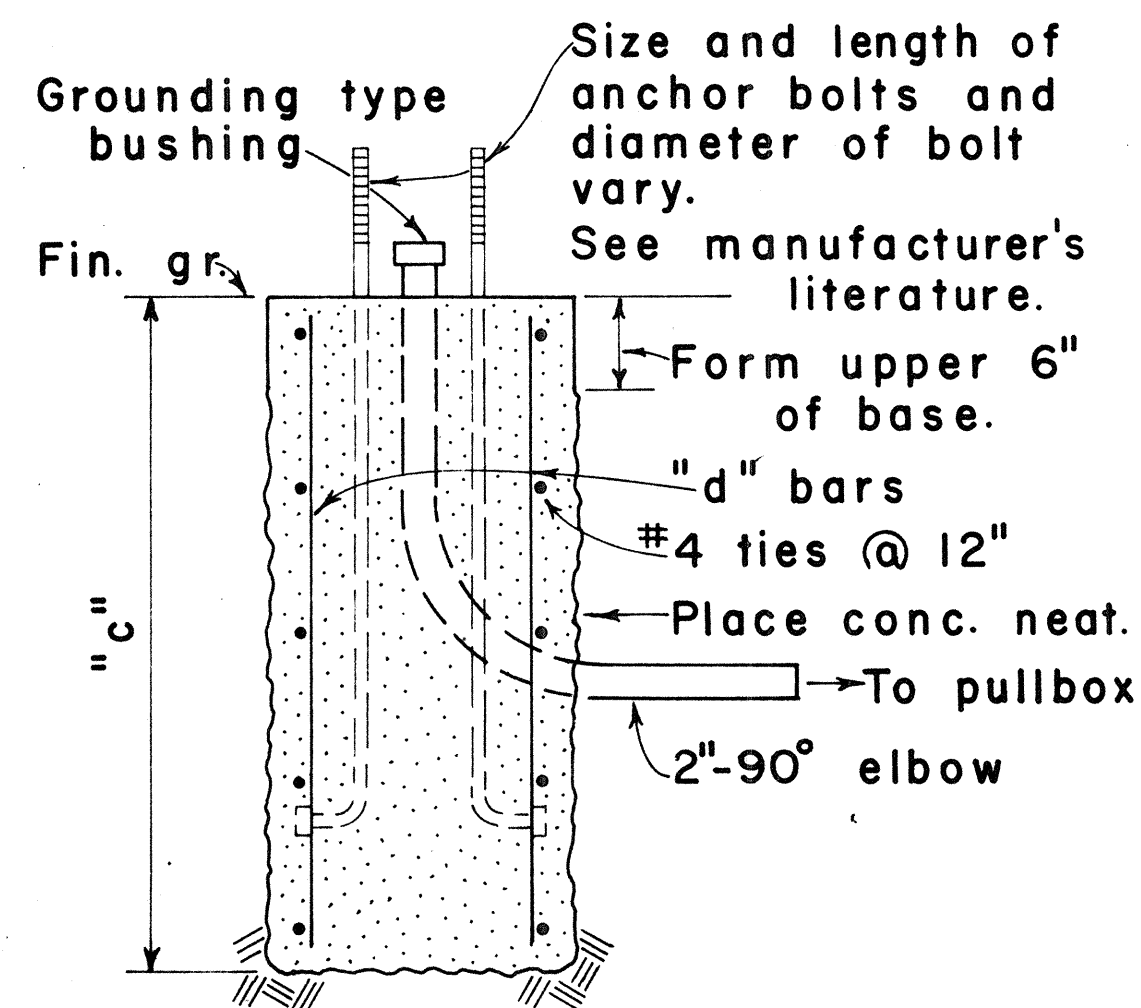
APPROVED:  
*Wm. J. J. J.*  
 ASSISTANT CHIEF, ENGINEERING  
 DATE: 12-20-62

| NO. | REVISION                           | APPROVED BY | DATE   |
|-----|------------------------------------|-------------|--------|
| 1   | Revised Type B & C Pullbox details | H.T.        | 3-5-76 |

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 LAND TRANSPORTATION FACILITIES DIVISION  
**STANDARD DETAILS**  
**PULLBOXES**  
 Scale as noted Date  
 SHEET No. 13 OF 17 SHEETS DT 401



PLAN - SECTION

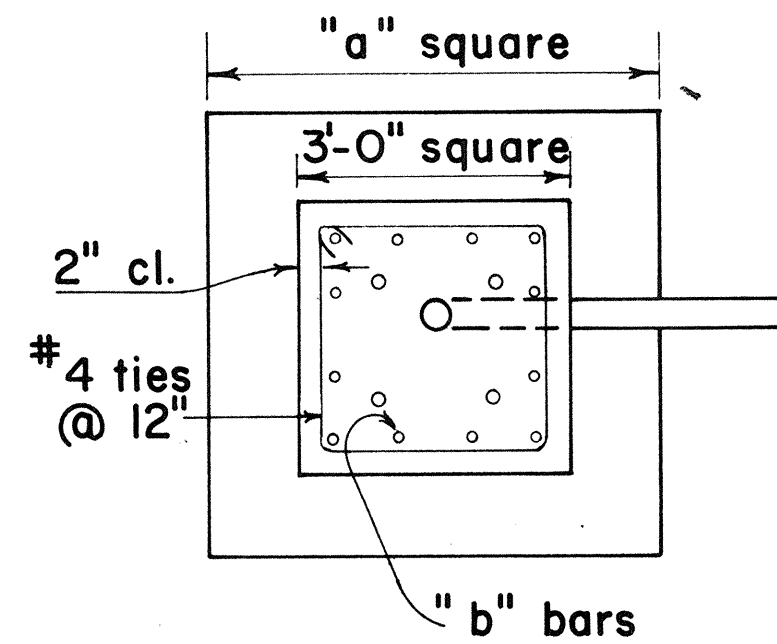


NOTE:  
Concrete shall be Class B.

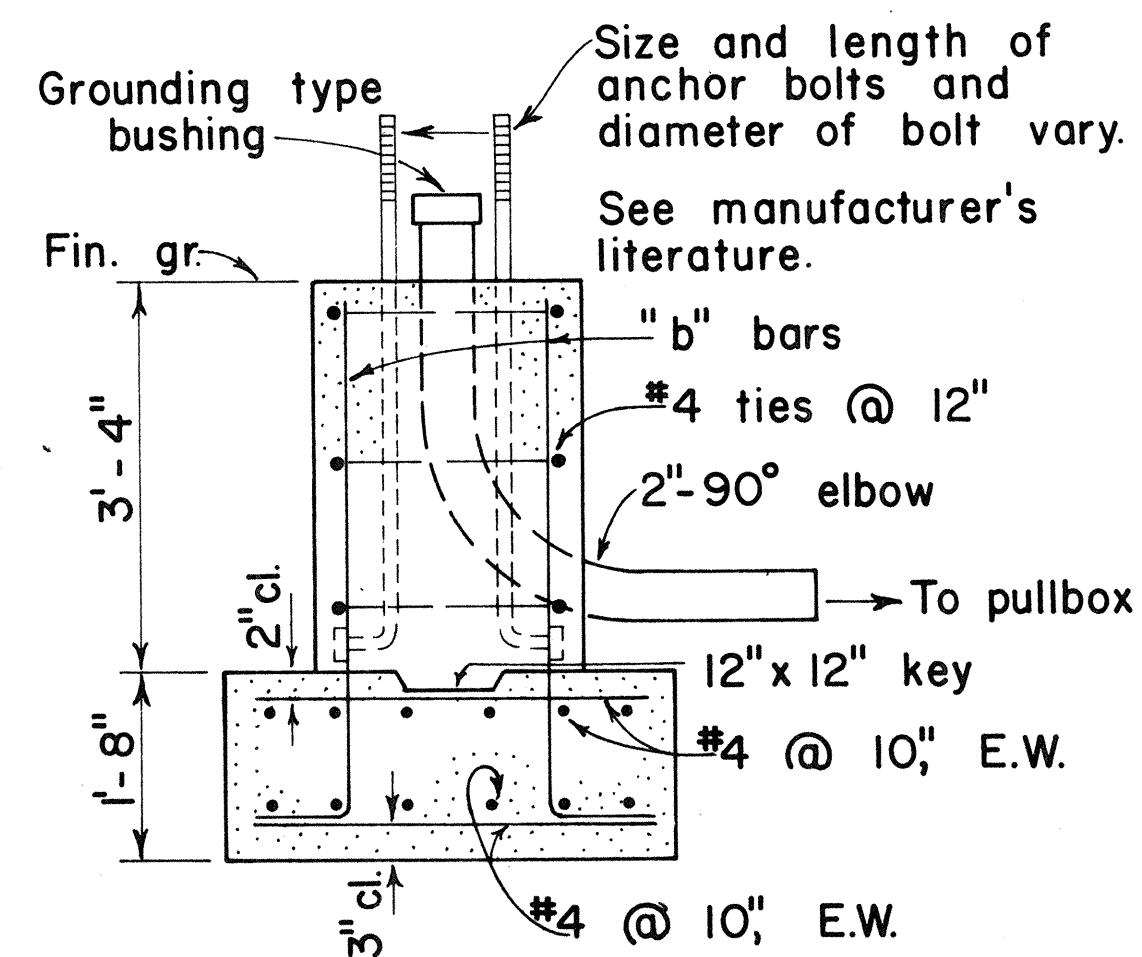
SECTION

| MAST ARM LENGTH | "c"     | "d" BARS |
|-----------------|---------|----------|
| 16' - 18'       | 5' - 0" | 12 - #6  |
| 20'             | 5' - 6" | 12 - #6  |
| 25'             | 6' - 0" | 12 - #6  |
| 30'             | 6' - 6" | 12 - #6  |
| 35'             | 7' - 0" | 12 - #8  |
| 40'             | 8' - 0" | 12 - #8  |

TYPE II



PLAN - SECTION



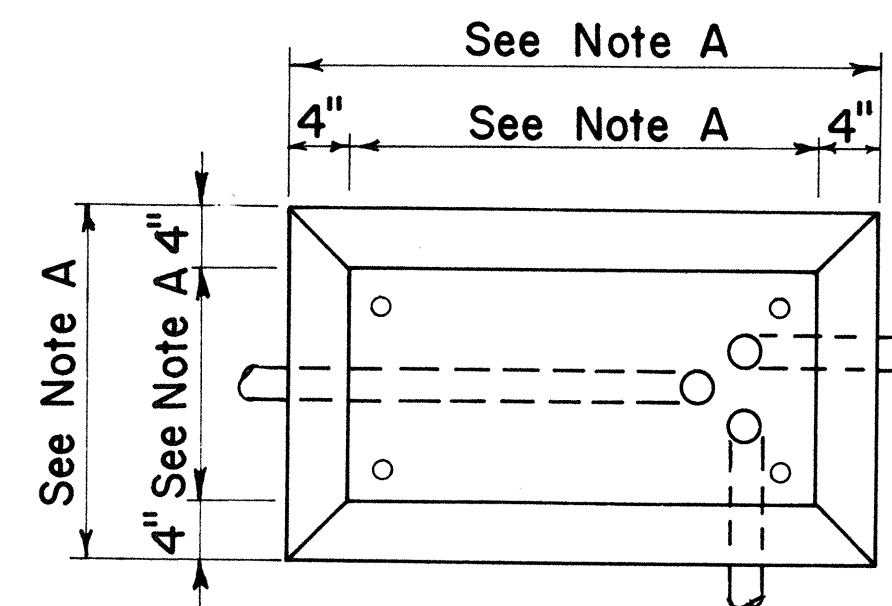
NOTE:  
Concrete shall be Class B.

SECTION

| MAST ARM LENGTH | "a"     | "b" BARS |
|-----------------|---------|----------|
| 16' - 18'       | 5' - 0" | 12 - #6  |
| 20'             | 5' - 6" | 12 - #6  |
| 25'             | 6' - 0" | 12 - #6  |
| 30'             | 6' - 6" | 12 - #8  |
| 35'             | 6' - 6" | 12 - #8  |
| 40'             | 7' - 0" | 12 - #8  |

TYPE IIA

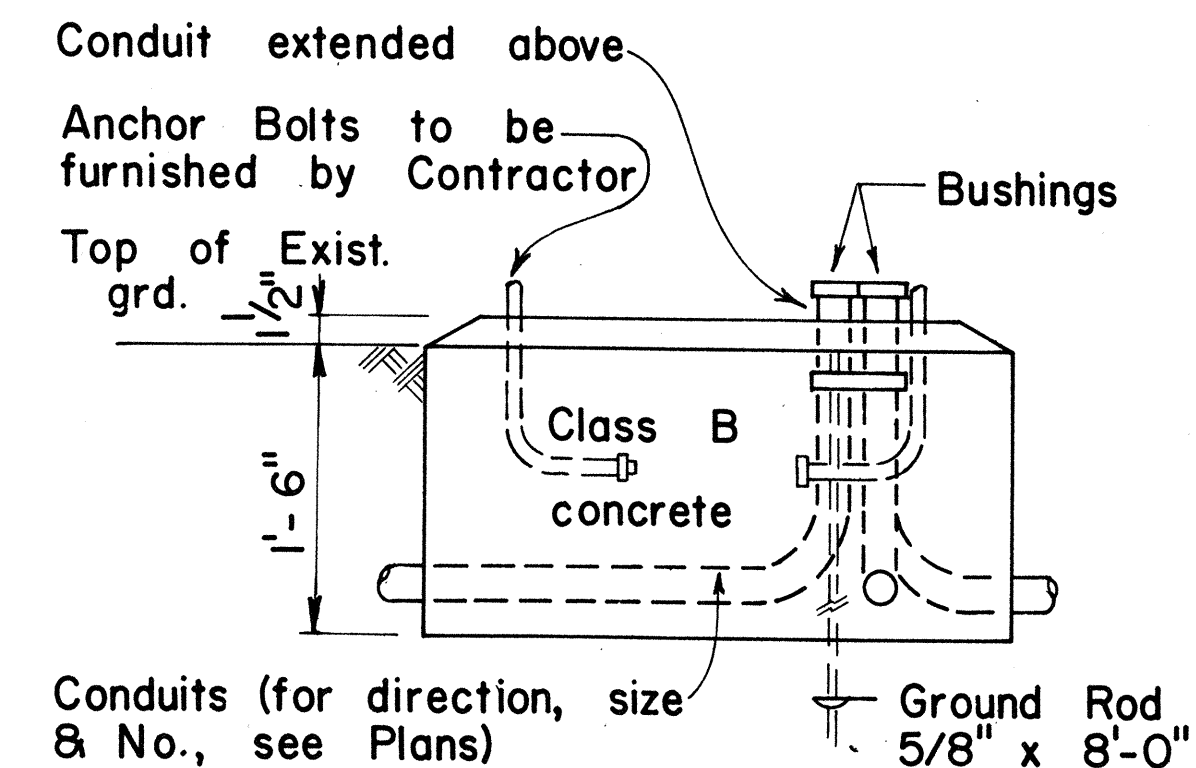
FOOTING FOR MAST ARM STANDARD



PLAN

CONCRETE BASE FOR CONTROLLER CABINET

- NOTES:
- Dimensions to be determined by the size of the Controller Cabinet to be furnished under this Contract.
  - Details of Conduits, Anchor Bolts, etc., are approximate only. Exact details shall be secured by the Contractor from Manufacturer.



ELEVATION

APPROVAL RECOMMENDED:  
*Eishi Tanaka* 3/4/76  
TRAFFIC ENGINEER DATE

APPROVED:  
*Albert S. Sakai* 2-5-76  
ASSISTANT CHIEF, ENGINEERING DATE

| NO. | REVISION | APPROVED BY | DATE |
|-----|----------|-------------|------|
|     |          |             |      |

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
LAND TRANSPORTATION FACILITIES DIVISION

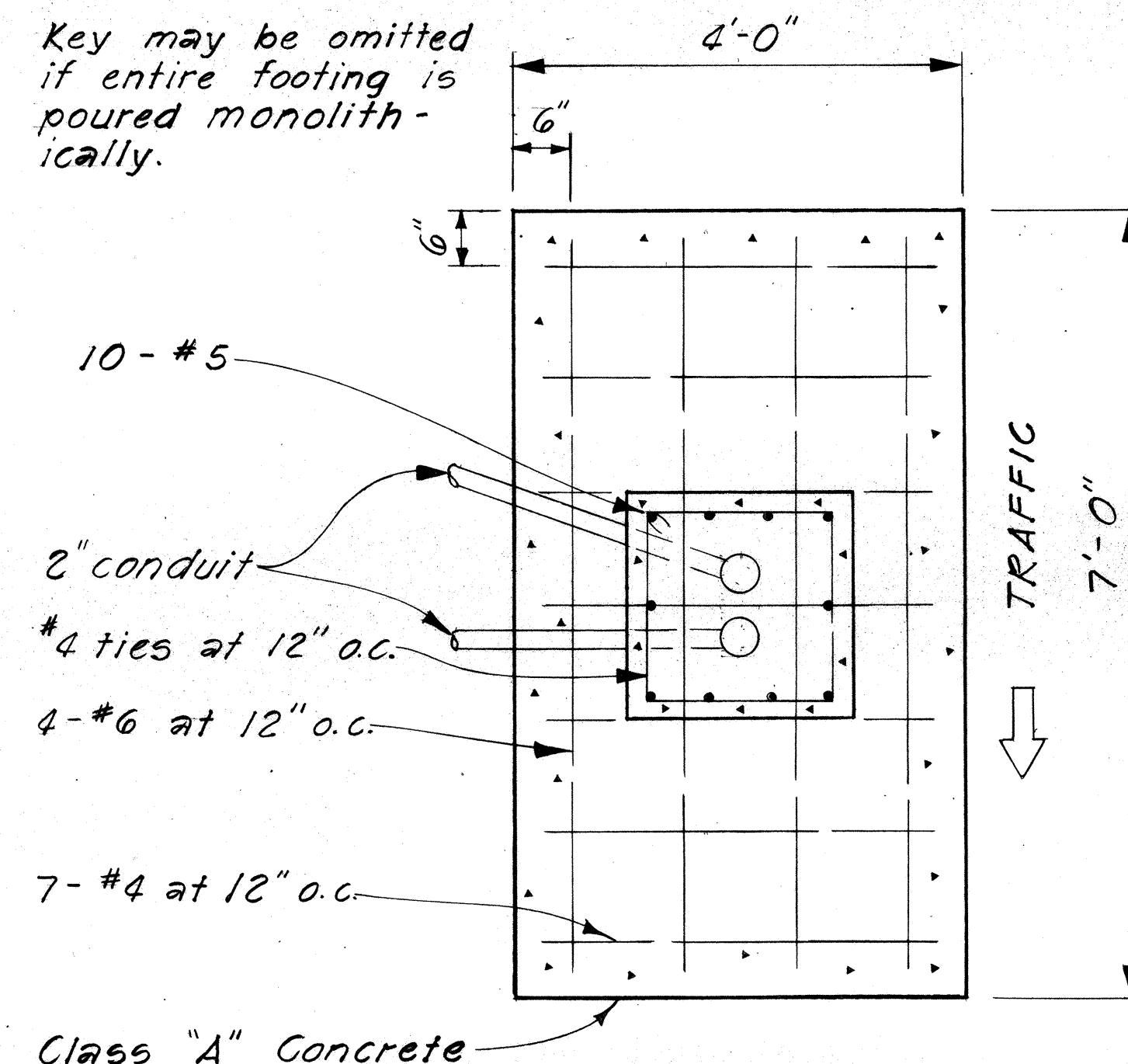
TRAFFIC SIGNAL SYSTEM  
MISCELLANEOUS DETAILS

Not to Scale

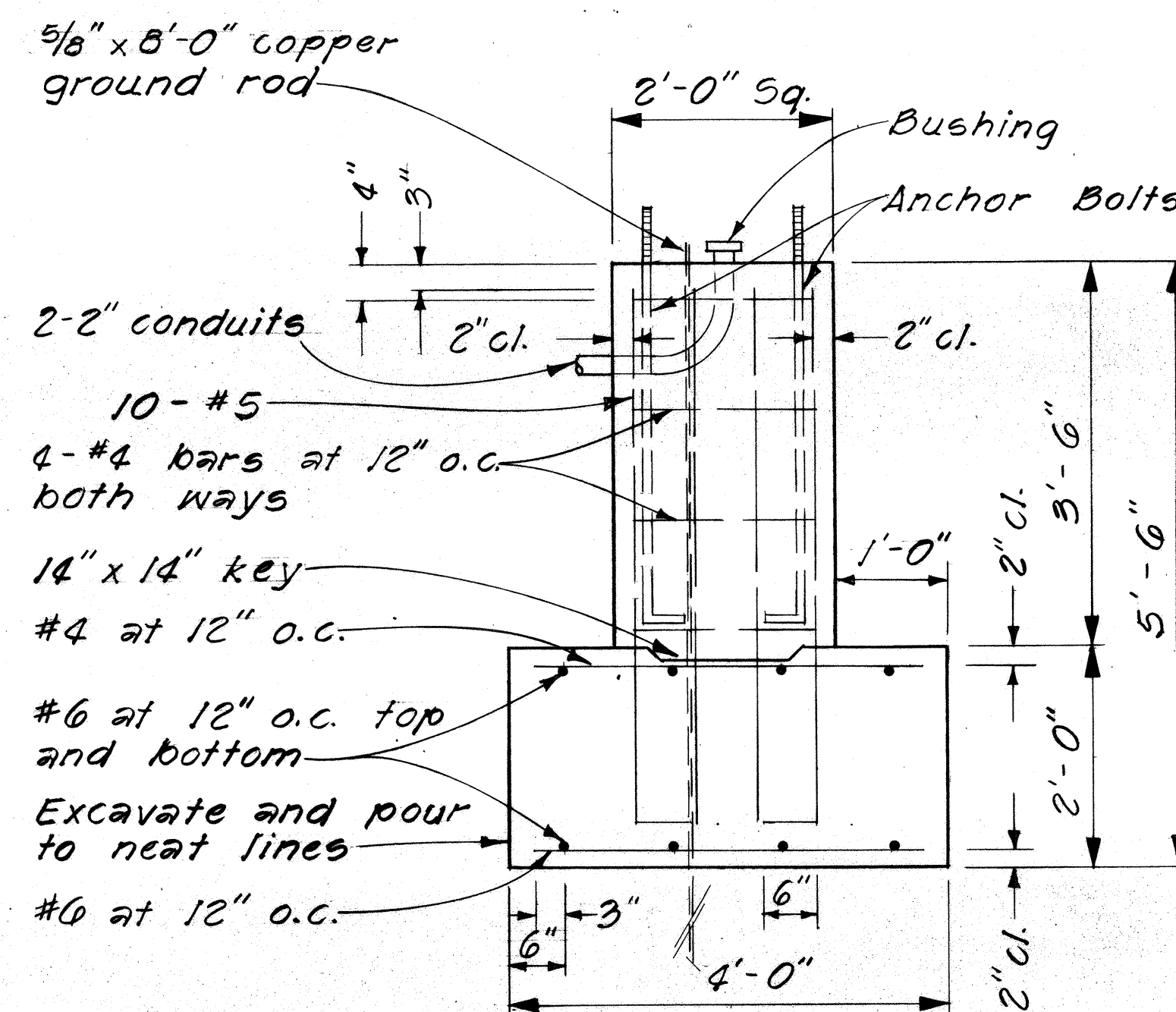
SHEET NO. 14 OF 17 SHEETS DT404

NOTE:

Key may be omitted if entire footing is poured monolithically.



TOP VIEW

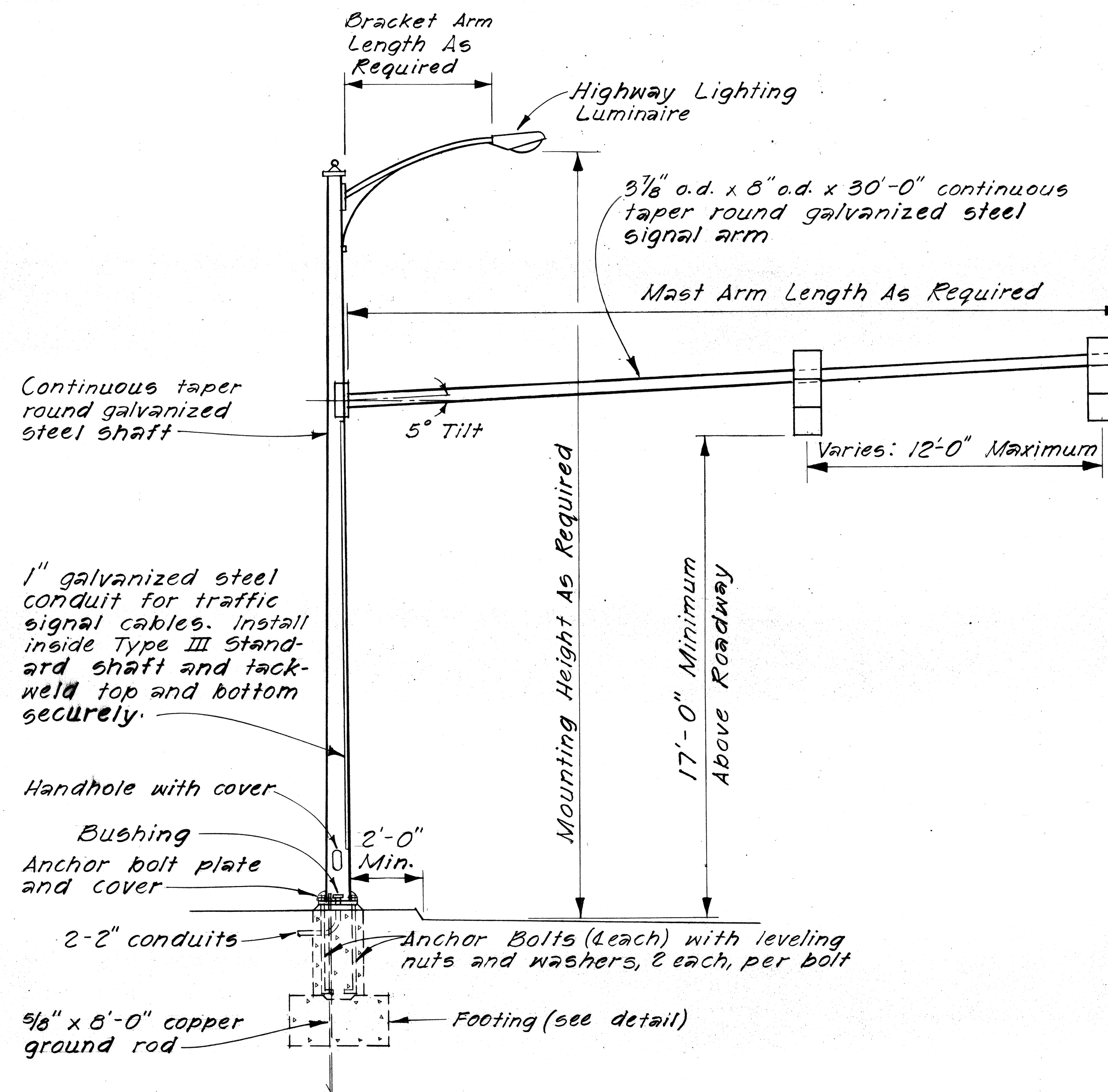


ELEVATION

FOOTING

FOR TYPE III STANDARD

Scale: 3/4"=1'-0"



TYPE III STANDARD

Not to Scale

NOTES:

- Item for Type III Traffic Signal Standard with mast arm and foundation includes highway lighting bracket arm.
- Highway Lighting Luminaire to be paid for under respective items in Section 622.
- For additional details see Sheet DT400.
- Size, length, and diameter of anchor bolts shall be as recommended by the manufacturer. Contractor shall submit catalog cuts to the Engineer for approval.

SUMMARY OF MAST ARMS AND BRACKET ARMS FOR TYPE III STANDARD

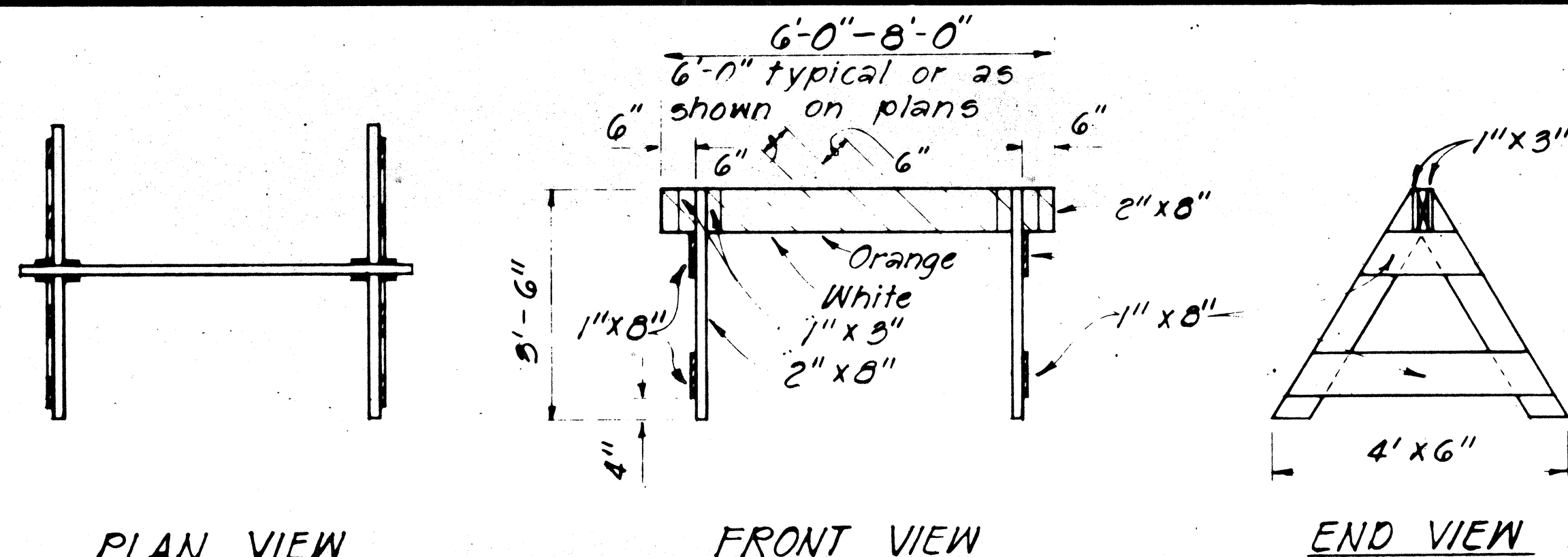
| INTERSECTION              | TRAFFIC SIGNAL MAST ARM LENGTH | HIGHWAY LIGHTING BRACKET ARM LEN. | MOUNTING HEIGHT |
|---------------------------|--------------------------------|-----------------------------------|-----------------|
| ALA MOANA - SOUTH-FORREST | 30'-0"                         | 6'-0"                             | 35'-0"          |
|                           |                                |                                   |                 |
|                           |                                |                                   |                 |
|                           |                                |                                   |                 |
|                           |                                |                                   |                 |
|                           |                                |                                   |                 |

|               |             |               |
|---------------|-------------|---------------|
| DATE          | DESIGNED BY | CHECKED BY    |
|               |             |               |
| ORIGINAL PLAN | NOTED BY    | QUANTITIES BY |
|               |             |               |
|               |             |               |

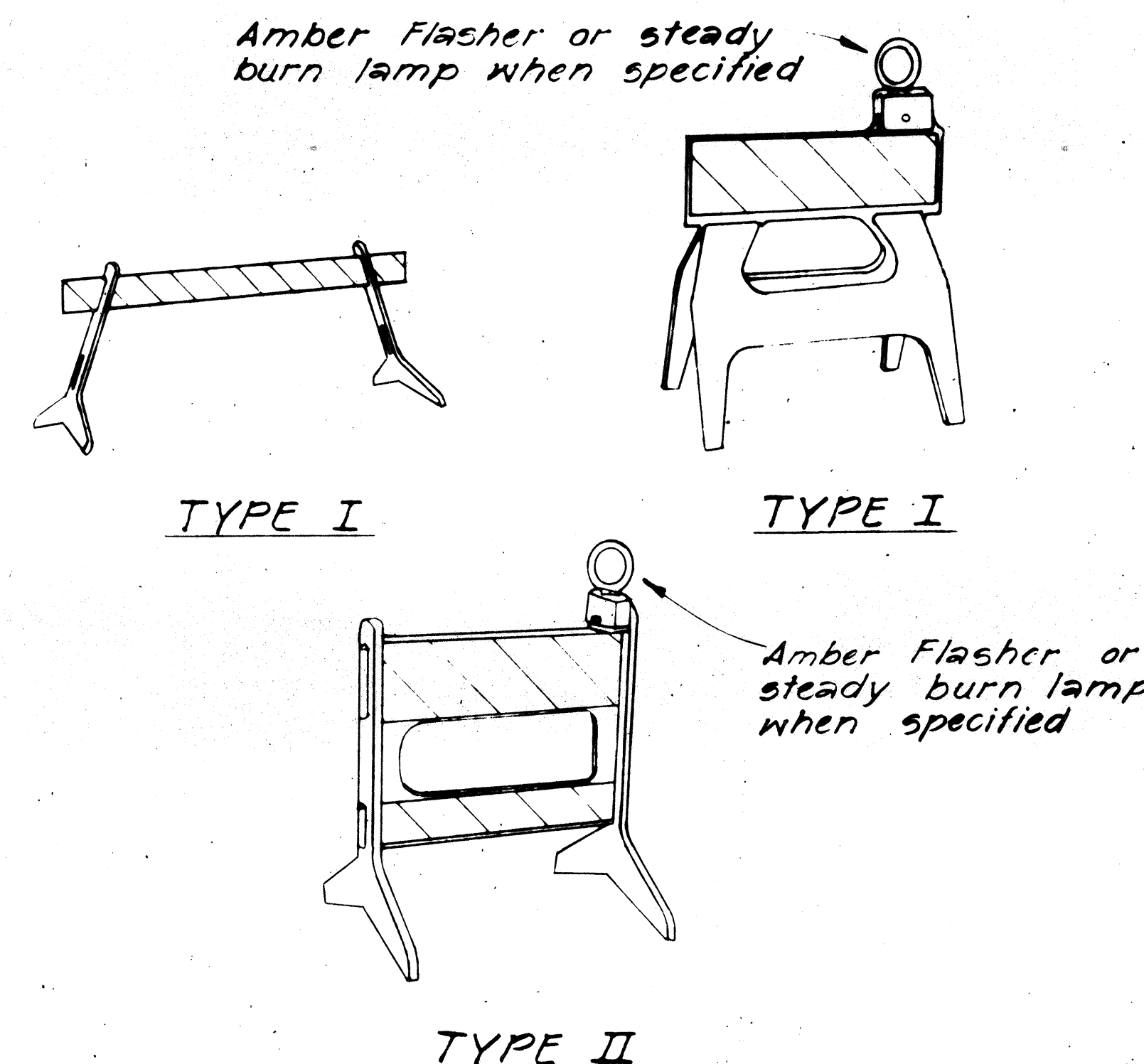
STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
TYPICAL DETAILS  
TYPE III TRAFFIC  
SIGNAL STANDARD

SCALE: As Shown DATE: April, 1977  
SHEET No. 15 OF 17 SHEETS

| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HHS-099-1(12)      | 1978        | 47        | 59           |

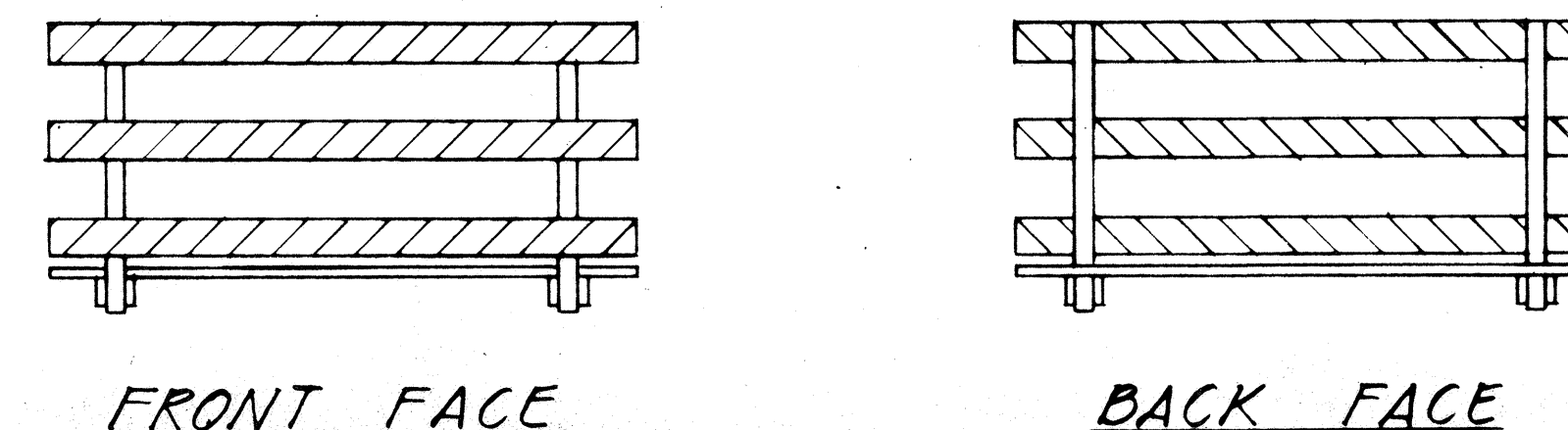


**TYPE I BARRICADE**  
Scale: 1/2" = 1'-0"



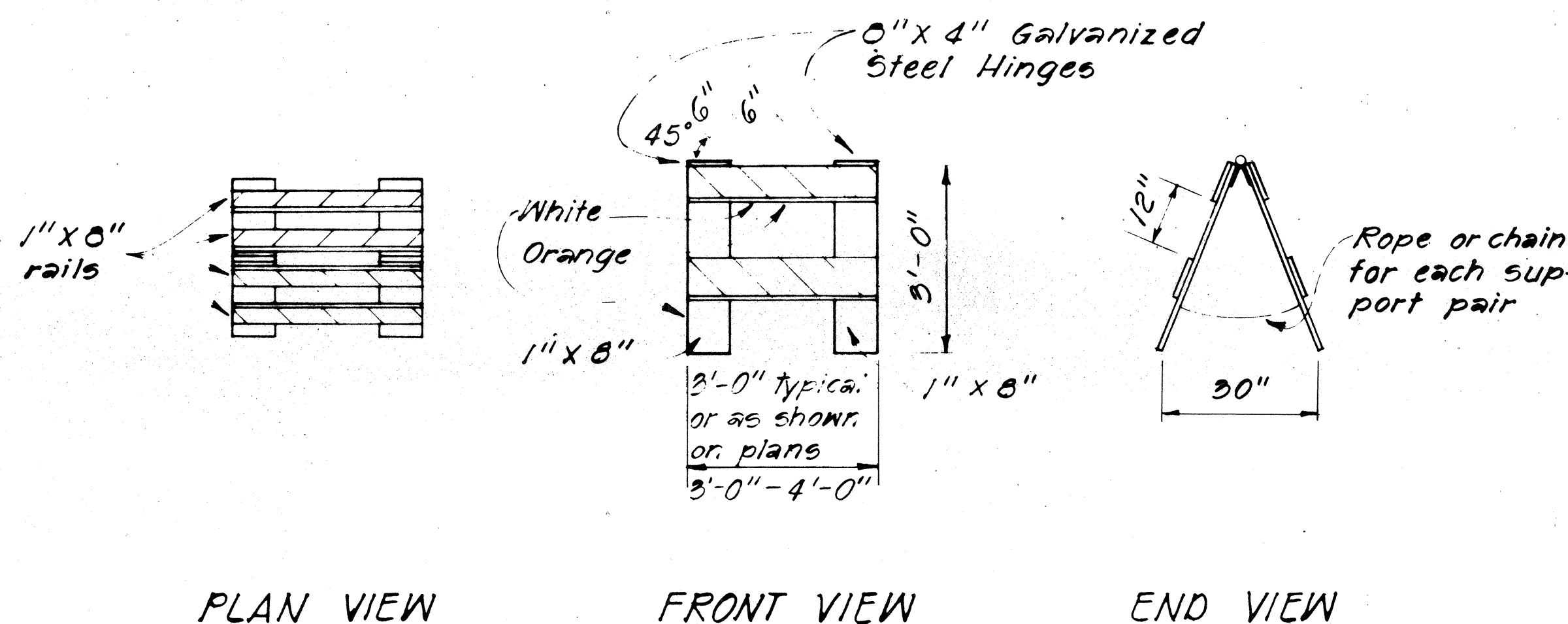
**TYPE II**

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

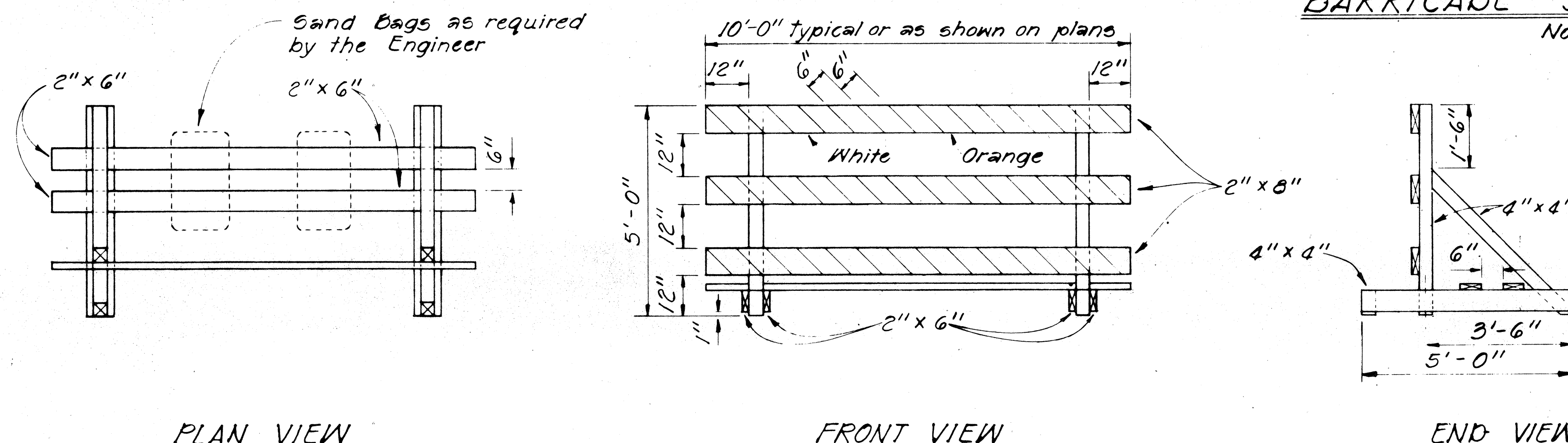


**BARRICADE STRIPING DETAILS**  
Not to Scale

- GENERAL NOTES**
- The Contractor shall construct, install and maintain the barricades at the locations shown on the Plans.
  - 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 overlaid with reflective sheeting.



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



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

STATE OF HAWAII

DEPARTMENT OF TRANSPORTATION

HIGHWAYS DIVISION

TYPICAL DETAILS

BARRICADES

SCALE: As Shown

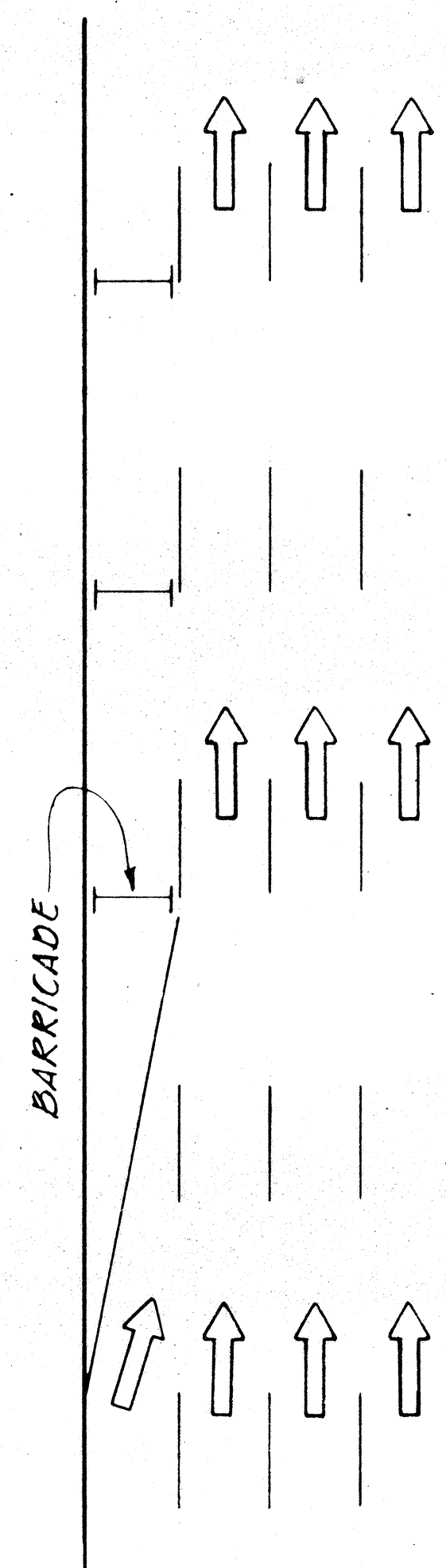
SHEET No. 16 OF 17 SHEETS

|                   |       |
|-------------------|-------|
| DATE              | _____ |
| SURVEY PLOTTED BY | _____ |
| DRAWN BY          | _____ |
| TRACED BY         | _____ |
| DESIGNED BY       | _____ |
| QUANTITIES BY     | _____ |
| CHECKED BY        | _____ |
| ORIGINAL PLAN     | _____ |
| NOTE BOOK         | _____ |

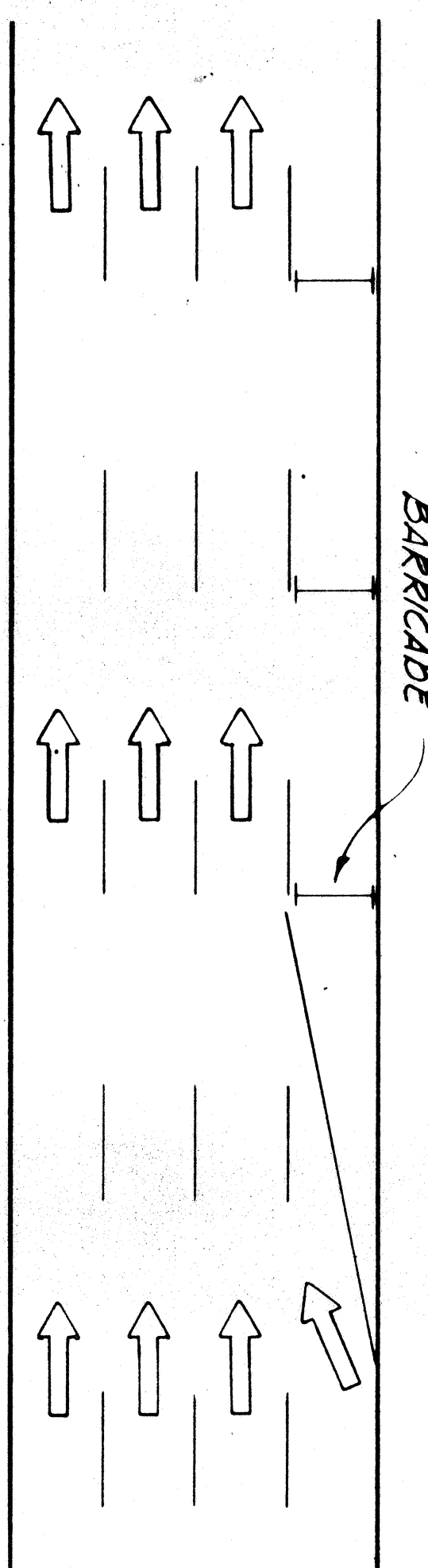
| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | HHS-092-1(12)      | 1978        | 48        | 59           |

## GENERAL NOTES

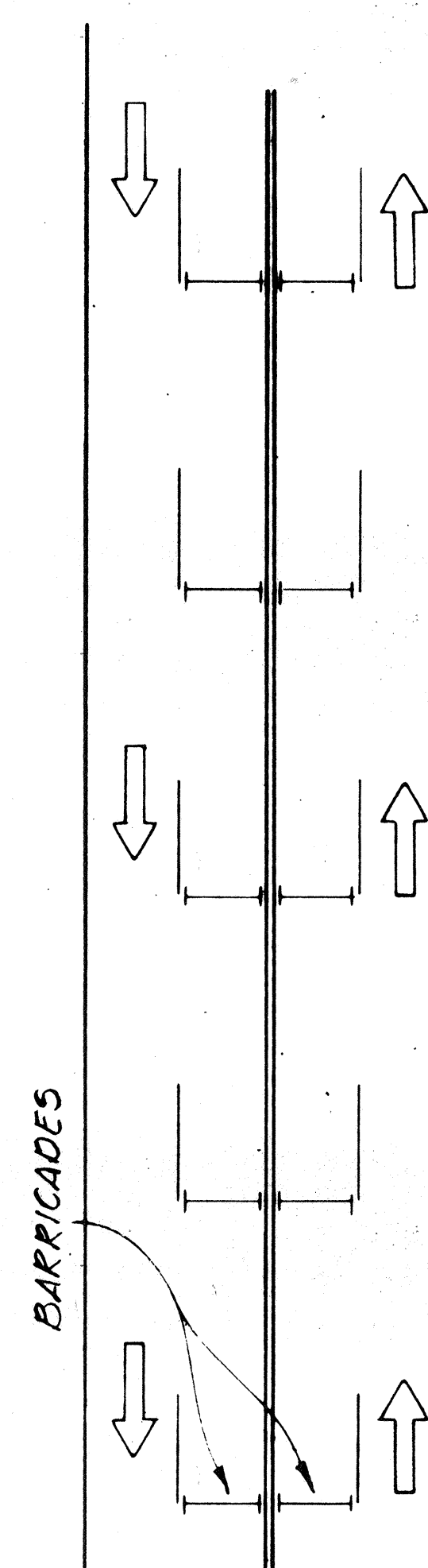
1. Barricade Type, Placement, and Arrangement shall be as shown on the Construction Plans.



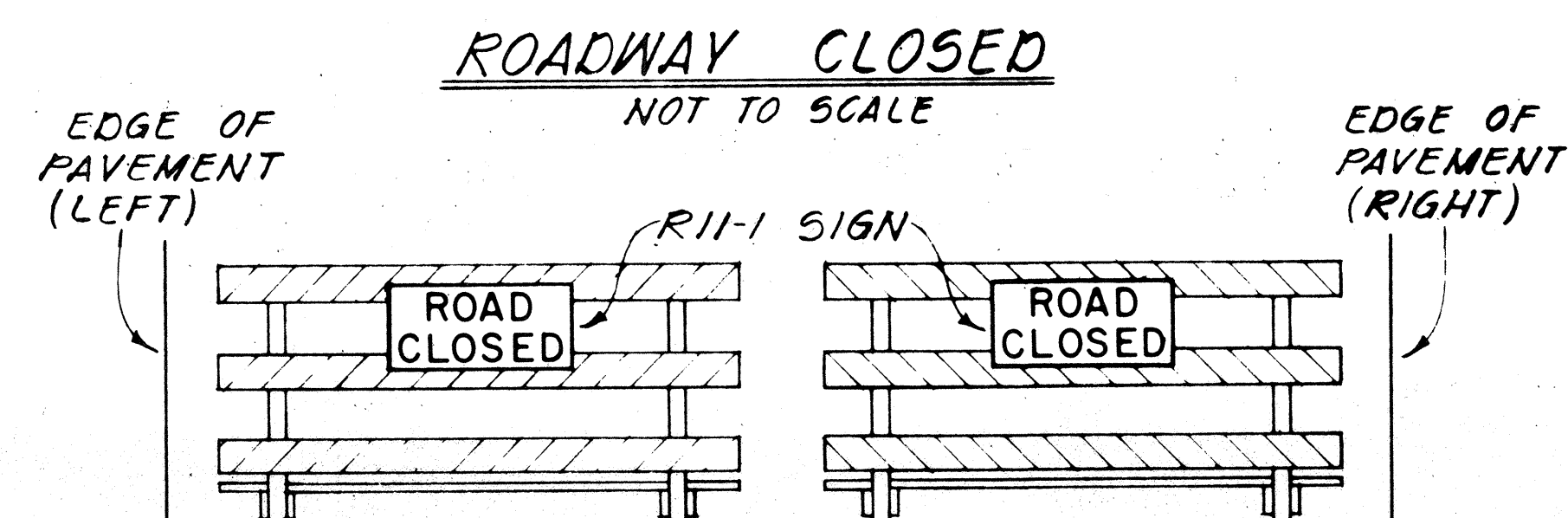
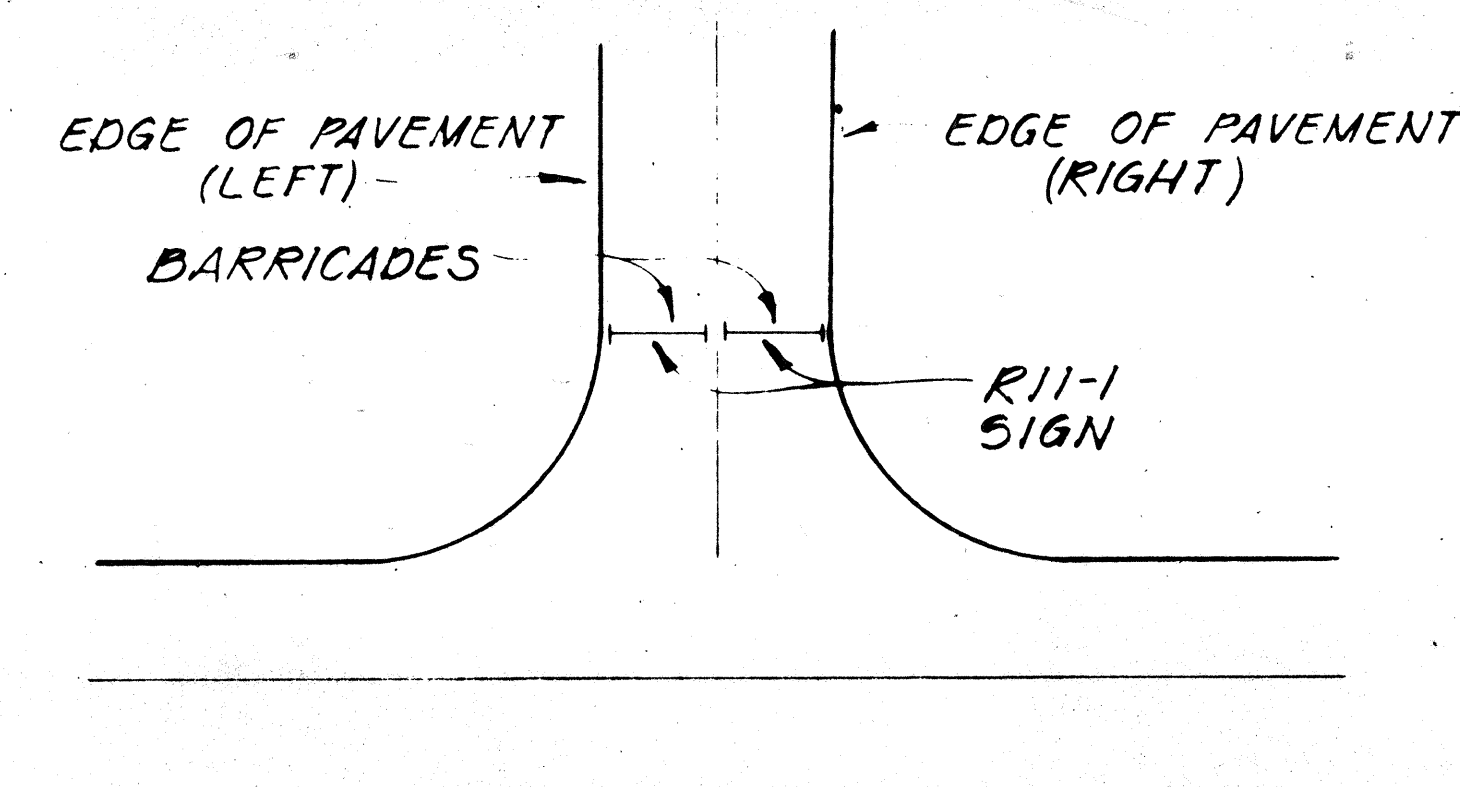
ROADWAY DELINEATION  
TO THE RIGHT  
NOT TO SCALE



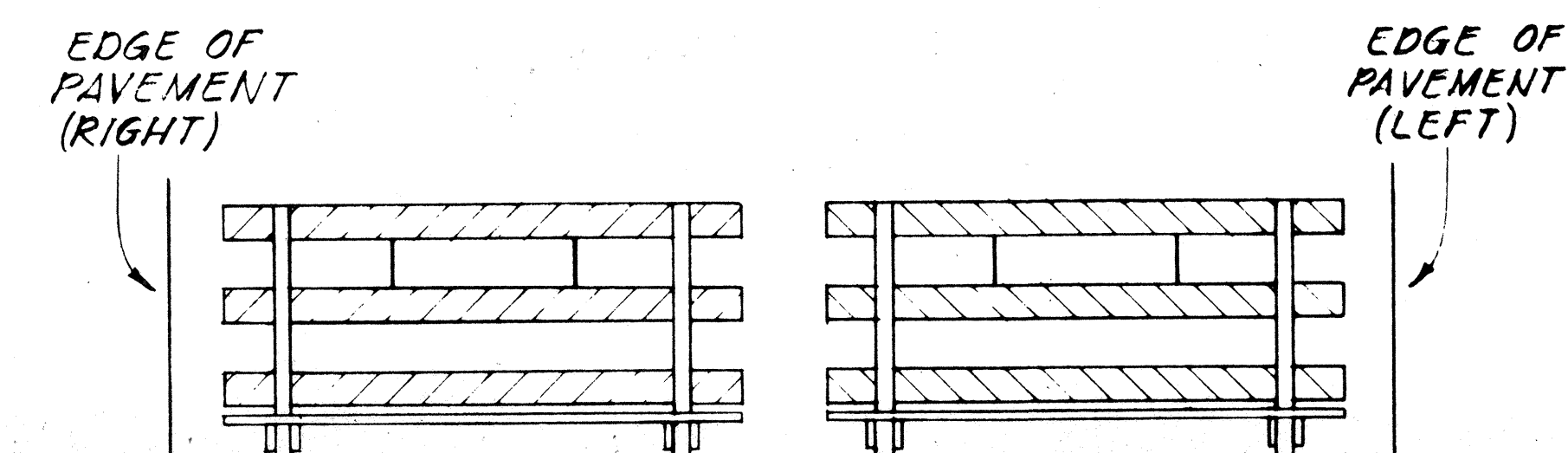
ROADWAY DELINEATION  
TO THE LEFT  
NOT TO SCALE



ROADWAY DELINEATION  
FOR 2-WAY TRAFFIC  
NOT TO SCALE

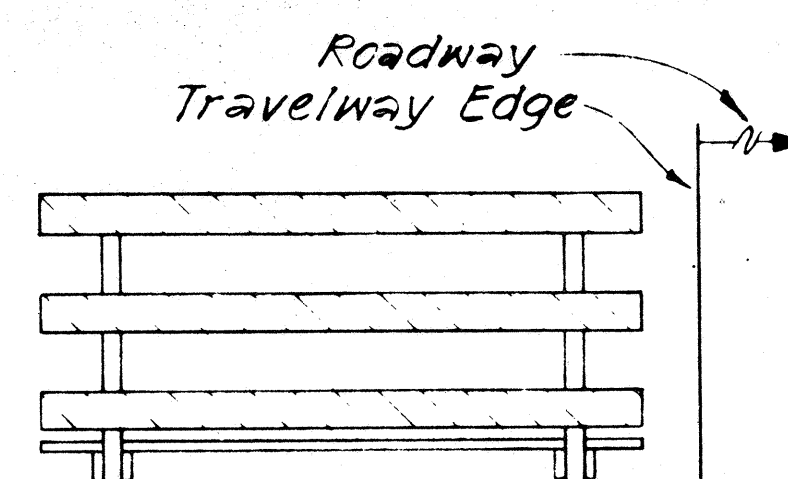


FRONT VIEW

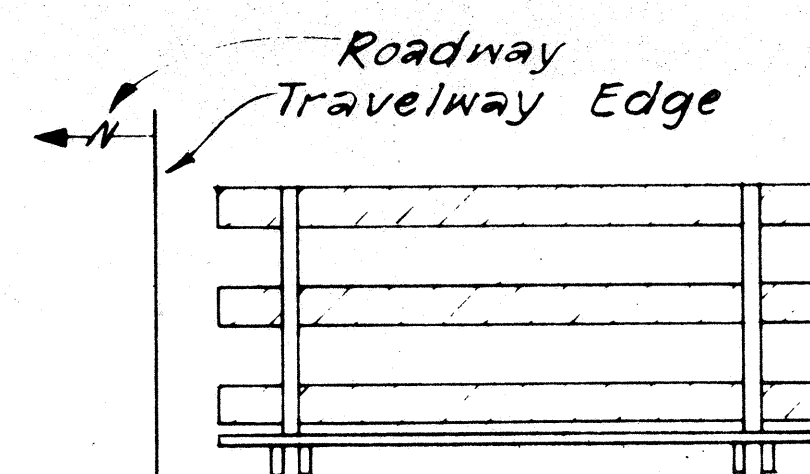


BACK VIEW

## BARRICADE STRIPING ARRANGEMENT NOT TO SCALE

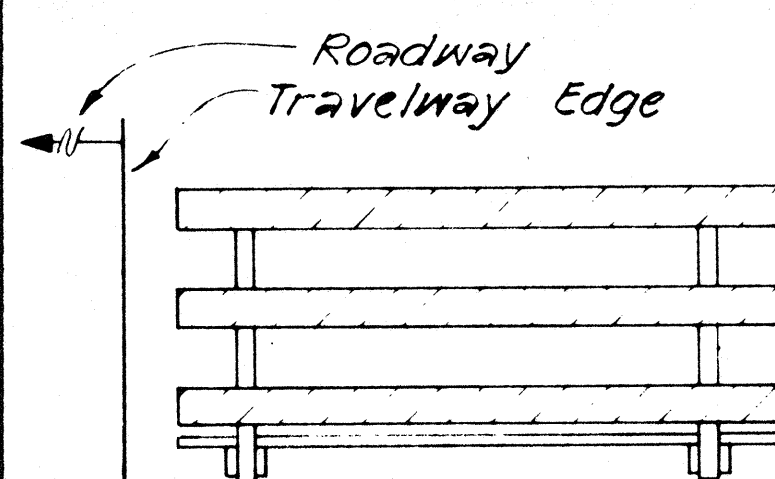


FRONT VIEW

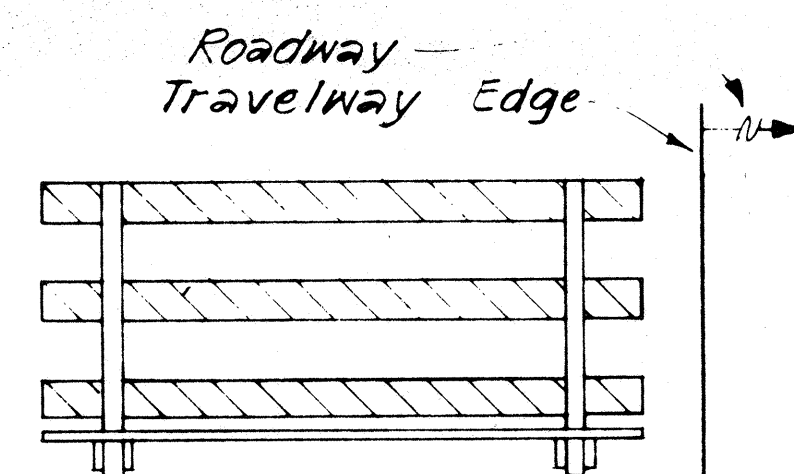


BACK VIEW

BARRICADE STRIPING  
ARRANGEMENT  
NOT TO SCALE

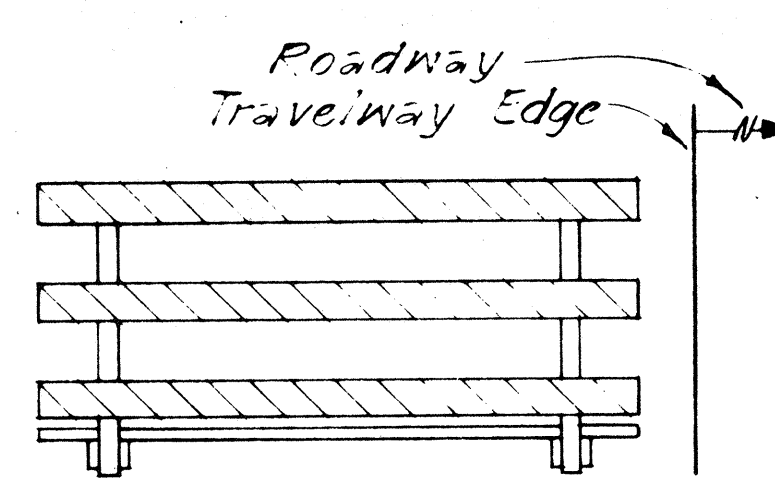


FRONT VIEW

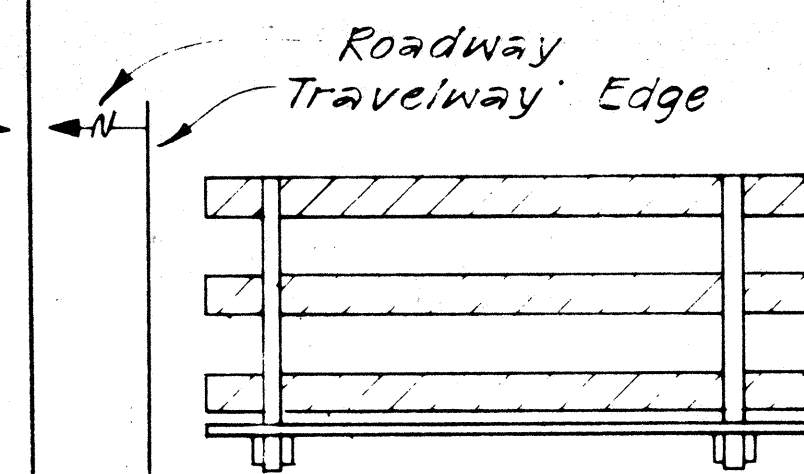


BACK VIEW

BARRICADE STRIPING  
ARRANGEMENT  
NOT TO SCALE



FRONT VIEW



BACK VIEW

BARRICADE STRIPING  
ARRANGEMENT  
NOT TO SCALE

|                                                                      |  |  |  |  |  |
|----------------------------------------------------------------------|--|--|--|--|--|
| STATE OF HAWAII<br>DEPARTMENT OF TRANSPORTATION<br>HIGHWAYS DIVISION |  |  |  |  |  |
| <u>TYPICAL DETAILS</u>                                               |  |  |  |  |  |
| <u>BARRICADE STRIPING DETAILS</u>                                    |  |  |  |  |  |
| SHEET NO. 17 OF 17 SHEETS                                            |  |  |  |  |  |