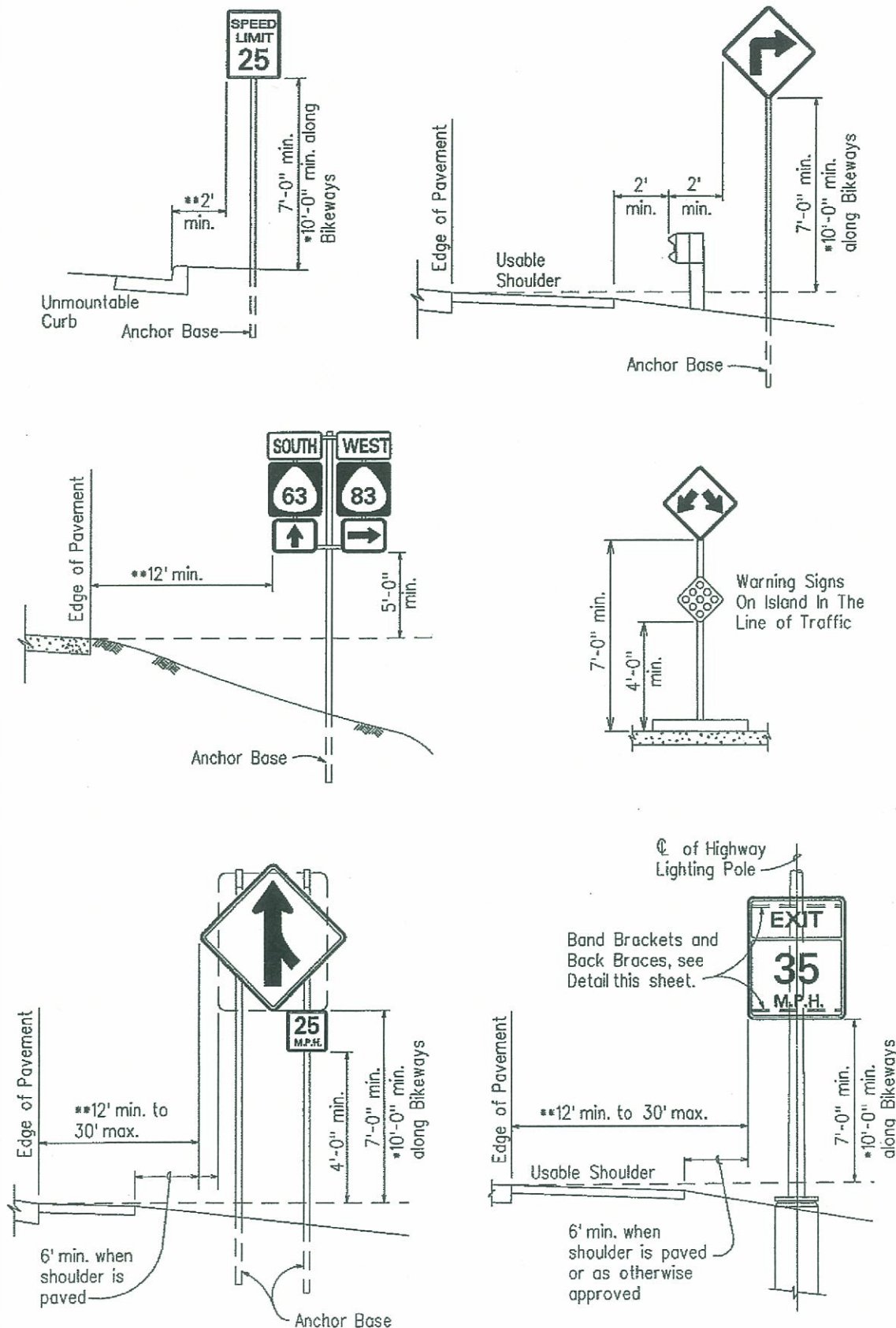


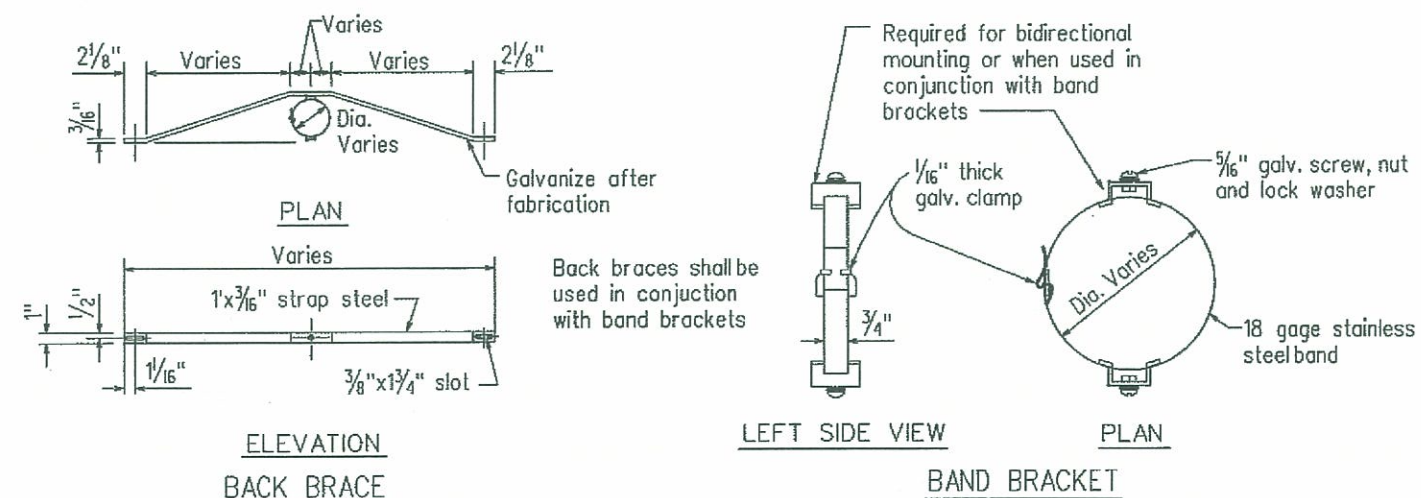
| STATE | SADDLE ROAD PROJECT | SHEET NO. | TOTAL SHEETS |
|-------|---------------------|-----------|--------------|
| HI    | HI HP & TI 200(2)   | P20       | P35          |

## GENERAL NOTES

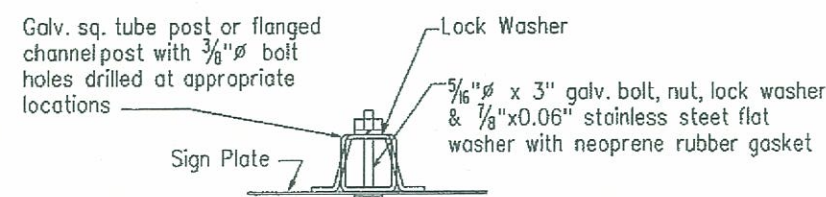
- Signs shall be placed in conformance with positions shown and described in the "Manual on Uniform Traffic Control Devices for Streets and Highways", 2003, Part II, Section 2A-21, as amended, and as supplemented herein.
- Sign 48" and wider or larger than 10 sq. ft. in area shall be mounted on two or more sign posts except as noted below.
- Signs 48" and wider or larger than 10 sq. ft. in area may be mounted on objects other than sign posts (i.e. on highway lighting poles) as follows:
  - Signs 48" and wider but less than 10 sq. ft. in area shall be mounted with a minimum of two sets of band bracket and back braces.
  - Signs larger than 10 sq. ft. and less than 28 sq. ft. in area shall be mounted with a minimum of two sets of band brackets and back braces.
  - Signs larger than 28 sq. ft. in area shall be mounted with a minimum of three sets of band bracket and back braces.
- All parking restriction signs with arrows shall be mounted 45° to the line of traffic flow.
- Sign posts shall extend  $3\frac{1}{2}$ " above each sign, where required, for attachment of City and County street name sign.
- (R) or (L) indicates right or left and shown on the plans.
- See plans for special details of signs along bikeways.
- The minimum lateral distances shown are guidelines and shall be exceeded whenever possible. The Contractor shall place signs at the maximum practical lateral distance from the edge of the traveled way up to 30 feet and shall utilize protected locations whenever possible. Final locations of all signs shall be approved by the Contracting Officer.
- Signs in medians shall be placed at midpoint of median up to a maximum distance of 30 feet from the edge of traveled way. When appropriate, signs for opposing directions shall be placed back to back.
- Anchor bases shall be installed for all sign post installations, unless otherwise shown or directed. See sheets P41 and P42.



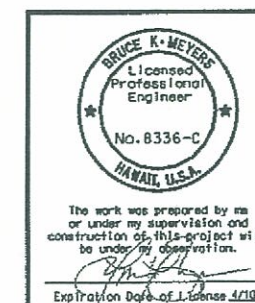
HEIGHT AND LATERAL LOCATION OF SIGNS  
TYPICAL INSTALLATION



TYPICAL MOUNTING DETAILS



GALVANIZED SQUARE TUBE  
OR FLANGED CHANNEL POST



|                                                                                                               |                    |
|---------------------------------------------------------------------------------------------------------------|--------------------|
| U.S. DEPARTMENT OF TRANSPORTATION<br>FEDERAL HIGHWAY ADMINISTRATION<br>CENTRAL FEDERAL LANDS HIGHWAY DIVISION |                    |
| <b>SPECIAL 633 (HDOT STD TE-01)</b>                                                                           |                    |
| <b>MISCELLANEOUS SIGN DETAILS</b>                                                                             |                    |
| Scale: N.T.S.                                                                                                 | Date: June 5, 2009 |
| SHEET No. 1 OF 1                                                                                              |                    |





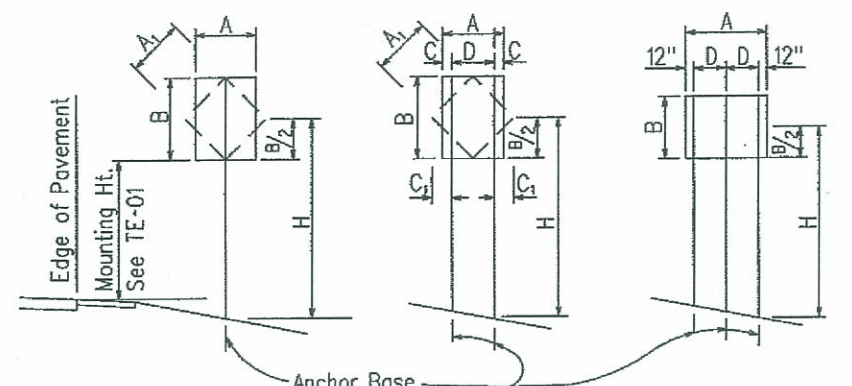


# GENERAL NOTES

1. Square tube sign posts shall conform to Subsection 718.08 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  $\frac{7}{16}$ "  $\phi$  holes, 1" o.c., 4 sides, along entire length of post.
4. All posts shall be 12 gage unless otherwise specified or shown on the plans.
5. For additional details see Standard Plan TE-01.
6. Basic formulas for use with the windload charts:  
Factor =  $A \times B \times H$   
Therefore, if sign area ( $A \times B$ ) is known,  
Maximum  $H = \frac{\text{Factor}}{\text{sign area } (A \times B)}$   
and if  $H$  is known,  
Maximum sign area ( $A \times B$ ) =  $\frac{\text{Factor}}{H}$

| A of A <sub>1</sub> | C   | C <sub>1</sub> |
|---------------------|-----|----------------|
| 36"                 | 6"  | -              |
| 48"                 | 9"  | 19"            |
| 60"                 | 12" | 24"            |

NOTE: Frame stiffeners are required when D is greater than 24". See Gen. Note 2.



1 - POST Sign area 10 sq. ft. and less  
2 - POST Sign area greater than 10 sq. ft. or A=48"-60"  
3 - POST A=greater than 60"

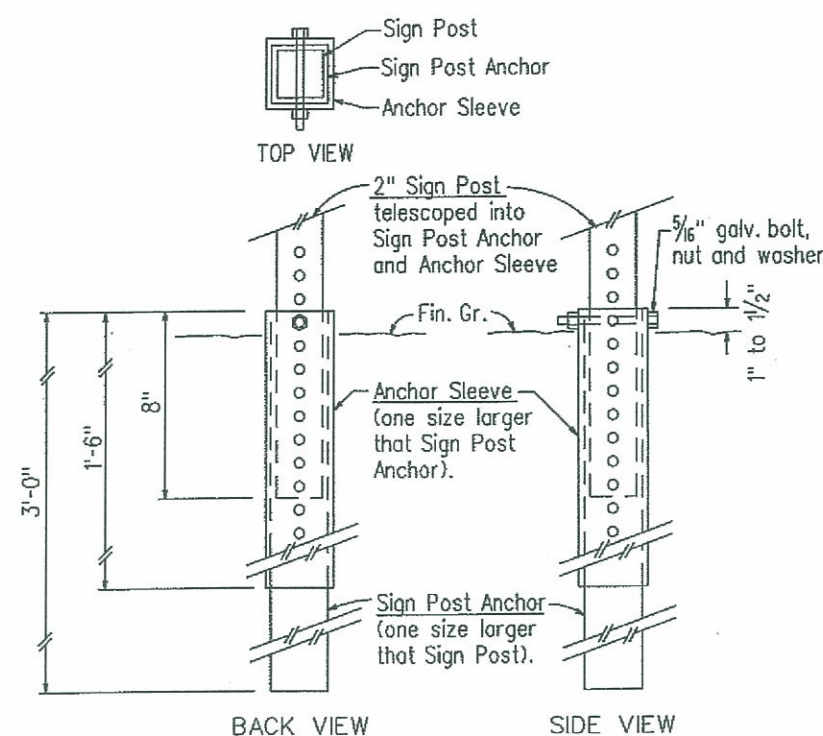
## TYPICAL INSTALLATION

Not to Scale

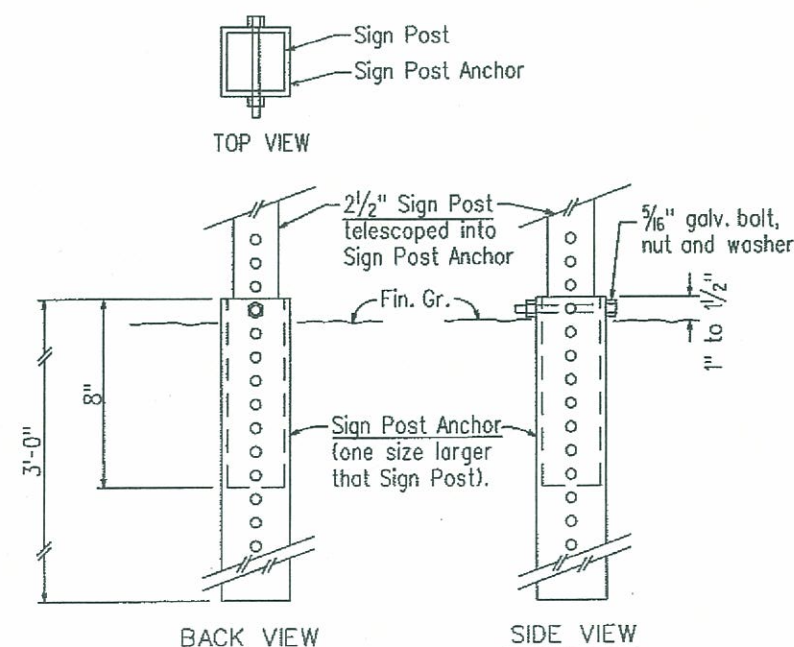
| SQUARE TUBE: 1-POST INSTALLATION |                |                                    |     |     |     |     |     |
|----------------------------------|----------------|------------------------------------|-----|-----|-----|-----|-----|
| Post Size                        | AxBxH (Factor) | H = Ground Level to Midpoint (ft.) |     |     |     |     |     |
|                                  |                | 7                                  | 8   | 9   | 10  | 11  | 12  |
| 2"                               | 62             | 8.8                                | 7.7 | 6.8 | 6.1 | 5.6 | 4.8 |
| 2 1/2"                           | 107            | -                                  | -   | -   | -   | 9.6 | 8.8 |

| SQUARE TUBE: 2-POST INSTALLATION |                |                                    |      |      |      |      |      |
|----------------------------------|----------------|------------------------------------|------|------|------|------|------|
| Post Size                        | AxBxH (Factor) | H = Ground Level to Midpoint (ft.) |      |      |      |      |      |
|                                  |                | 7                                  | 8    | 9    | 10   | 11   | 12   |
| 2"                               | 122            | 17.4                               | 15.2 | 13.5 | 12.2 | 11.0 | 10.1 |
| 2 1/2"                           | 212            | 30.2                               | 26.5 | 23.5 | 21.1 | 19.2 | 17.6 |

## WINDLOAD CHARTS

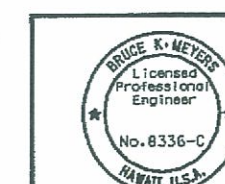


2" SIGN POST INSTALLATION



2 1/2" SIGN POST INSTALLATION

## ANCHOR BASE DETAIL



The work was prepared by me or under my supervision and construction of this project will be under my observation.  
Expiration Date of License 4/10

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

## SPECIAL 633 (HDOT STD TE-03) GALVANIZED SQUARE TUBE SIGN POST MOUNTING

Scale: N.T.S.

Date: June 5, 2009

SHEET No. 1 OF 1



| STATE | SADDLE ROAD PROJECT | SHEET NO. | TOTAL SHEETS |
|-------|---------------------|-----------|--------------|
| HI    | HI HP & TI 200K2    | P23       | P35          |

|                                                                                                                                                              |                                                                                                                                                |                                                                                                                       |                                                                                                                              |                                                                                                                                       |                                                                                                                                             |                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                             |                                                                                                                                  |                                                                                                                             |                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <br>R1-1 30"x30"<br>R1-1-A 36"x36"<br>4-WAY<br>R1-3 12"x6"<br>R1-3-A 18"x9" | <br>R1-2 36"x36"x36"<br>R1-2-A 48"x48"x48"                    | <br>R2-1(50) 36"x48"                 | <br>R2-2(40) 24"x24"<br>R2-2(40)-A 48"x48" | <br>R2-4a(50/40) 24"x48"<br>R2-4a(50/40)-A 48"x96" | <br>R3-1 24"x24"<br>24"x18"<br>R3-1-A 48"x48"<br>48"x36" | <br>R3-2 24"x24"<br>24"x18"<br>R3-2-A 48"x48"<br>48"x36" | <br>R3-3 24"x24"<br>R3-3-A 48"x48"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <br>R3-4 24"x24"<br>24"x18"<br>R3-4-A 48"x48"<br>48"x36" | <br>R3-5(L) 30"x36"<br>R3-5(L)-A 48"x60"      | <br>R3-6(L) 30"x36"<br>R3-6(L)-A 48"x60" | <br>R3-8(R) 30"x30"                |
| <br>R3-7(R) 30"x30"<br>R3-7(R)-A 48"x48"                                    | <br>R3-8(L) 30"x30"<br>R3-8(L)-A 36"x36"<br>R3-8(L)-B 48"x48" | <br>R3-9a 30"x36"                    | <br>R4-1 24"x30"<br>R4-1-A 48"x60"         | <br>R4-2 24"x30"<br>R4-2-A 48"x60"                 | <br>R4-3 24"x30"<br>R4-3-A 48"x60"                       | <br>R4-5 24"x30"<br>R4-5-A 48"x60"                       | <br>R4-6(500) 24"x30"<br>R4-6(500)-A 48"x60"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | <br>R4-7 24"x30"<br>24"x18"<br>R4-7-A 48"x60"            | <br>R4-8 24"x30"<br>24"x18"<br>R4-8-A 48"x60" | <br>R5-1 30"x30"<br>R5-1-A 48"x48"       | <br>R5-1a 36"x24"                  |
| <br>R5-2 24"x24"<br>24"x18"                                                 | <br>R5-4 24"x30"<br>R5-4-A 48"x60"                            | <br>R5-6 24"x24"<br>24"x18"          | <br>R6-1(R) 36"x12"                        | <br>R6-2(R) 18"x24"                                | <br>R7-1 12"x18"<br>R7-1-A 24"x30"                       | <br>R7-4 12"x18"<br>R7-4-A 24"x30"                       | <br>R7-107 12"x18"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <br>R7-108 12"x18"                                       | <br>R7-201 12"x6"<br>R7-201-A 24"x12"         | <br>R8-1 24"x30"<br>R8-1-A 48"x60"       | <br>R8-2 24"x30"<br>R8-2-A 48"x60" |
| <br>R8-3 24"x30"<br>R8-3-A 48"x48"                                        | <br>R8-4 30"x24"<br>R8-4-A 48"x36"                          | <br>R8-5 24"x30"<br>R8-5-A 48"x48" | <br>R8-6 24"x30"<br>R8-6-A 48"x60"       | <br>R8-7 30"x24"<br>R8-7-A 48"x36"               | <br>R9-1 18"x24"                                       | <br>R9-2 12"x18"                                       | <br>R9-3 12"x18"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <br>R9-4 18"x24"                                       | <br>R10-1 12"x18"                           | <br>R10-2 12"x18"                      | <br>R10-3 9"x12"                 |
| <br>R10-4 9"x12"                                                          | <br>R10-5 24"x30"                                           | <br>R10-6 24"x36"                  | <br>R10-7 24"x30"                        | <br>R10-8 24"x30"                                | <br>R10-9 24"x30"                                      | <br>R10-10 24"x30"                                     | <b>GENERAL NOTES</b><br>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.<br>2. All regulatory signs shall be reflectorized unless otherwise specified.<br>3. All regulatory signs shall have 3/8" bolt holes drilled at appropriate locations.<br>4. Numerals in ( ) indicate numerals to be inserted for sign message. (R) or (L) indicates right or left.<br>5. All signs shall be erected without educational plaques unless called for in the plans. |                                                                                                                                             |                                                                                                                                  |                                                                                                                             |                                                                                                                       |
| <br>R10-12 24"x30"                                                        | <br>R11-1 24"x30"                                           | <br>R11-2 48"x30"                  | <br>R11-3(10) 60"x30"                    | <br>R11-4 60"x30"                                | <br>R12-1(10) 24"x30"                                  |                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                             |                                                                                                                                  |                                                                                                                             |                                                                                                                       |

| 7/1/87 | Deleted Sign R3-9 and Added Signs R3-9a and R10-12. |        |
|--------|-----------------------------------------------------|--------|
| DATE   | REVISION                                            | APP'D. |

|                                                                                                                                                                                                                                                   |                                                                                                                                                                                 |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <br>The work was prepared by me or under my supervision and construction of this project will be under my observation.<br>Expiration Date of License 4/21/18 | U.S. DEPARTMENT OF TRANSPORTATION<br>FEDERAL HIGHWAY ADMINISTRATION<br>CENTRAL FEDERAL LANDS HIGHWAY DIVISION<br><b>SPECIAL 633 (HDOT STD TE-04)</b><br><b>REGULATORY SIGNS</b> |  |
|                                                                                                                                                                                                                                                   | Scale: N.T.S. Date: June 5, 2009                                                                                                                                                |  |
|                                                                                                                                                                                                                                                   | SHEET No. 1 OF 1                                                                                                                                                                |  |



| STATE | SADDLE ROAD PROJECT | SHEET NO. | TOTAL SHEETS |
|-------|---------------------|-----------|--------------|
| HI    | HI HP & TI 200(2)   | P24       | P35          |

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

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

W6-1  
36"x36"  
24"x18"  
W6-1-A  
48"x48"  
24"x18"

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

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

W10-1  
36" Diameter

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

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

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

W6-2  
36"x36"  
24"x18"  
W6-2-A  
48"x48"  
24"x18"

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

W12-2(12'-6")  
36"x36"  
24"x18"  
W12-2(12'-6")-A  
48"x48"

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

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

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

W10-1  
36" Diameter

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

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

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

W7-1  
30"x30"  
24"x18"  
W7-1-A  
48"x48"  
24"x18"

W11-1  
30"x30"  
24"x18"  
W11-1-A  
36"x36"  
24"x18"  
W11-1-B  
48"x48"  
24"x18"

W13-2(25)  
48"x60"

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

W3-3  
36"x36"  
24"x18"

W11A-2  
30"x30"  
24"x18"  
W11A-2-A  
36"x36"  
24"x18"  
W11-2-B  
48"x48"  
24"x18"

W13-3(25)  
48"x60"

W1-6  
48"x24"

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

W8-1  
30"x30"  
W8-1-A  
36"x36"  
W8-1-B  
48"x48"

W14-1  
30"x30"  
W14-1-A  
36"x36"

W1-7  
48"x24"

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

W8-2  
30"x30"  
W8-2-A  
36"x36"  
W8-2-B  
48"x48"

W14-3  
36"x48"x48"  
W14-3-A  
48"x64"x64"

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

W5-1  
36"x36"  
W5-1-A  
48"x48"

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

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

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

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

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

W5-3  
36"x36"  
W5-3-A  
48"x48"

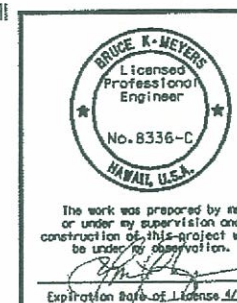
W7-1  
30"x30"  
24"x18"  
W7-1-A  
48"x48"  
24"x18"

W3-5  
36"x36"

## GENERAL NOTES

- 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.
- All warning signs shall be reflectorized unless otherwise specified.
- All warning signs shall have 3/8" bolt holes drilled at appropriate locations.
- Numerals in ( ) indicate 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.

| 7/1/87 | Deleted Sign R3-9 and Added Signs R3-9a and R10-12. |        |
|--------|-----------------------------------------------------|--------|
| DATE   | REVISION                                            | APP'D. |



U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**SPECIAL 633 (HDOT STD TE-05)**

**WARNING SIGNS**

Scale: N.T.S.

Date: June 5, 2009

SHEET No. 1 OF 1

P24



### GENERAL NOTES

- 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.
- All signs shall be reflectorized with reflective sheeting, unless otherwise specified.
- All signs shall have  $\frac{3}{8}$ " bolt holes drilled at appropriate locations.
- Numerals in ( ) indicate 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 with reflective sheeting.
- All signs shall be erected without educational plaques unless called for in the plans.

R1-4  
18"x6"

R2-5a  
24"x30"

R2-5a-A  
48"x60"

R2-10  
24"x30"

R3-9b  
24"x36"

R5-8  
30"x24"

R7-107a  
12"x24"

R7-8  
12"x18"

R7-8-A  
24"x30"

R8-3a  
24"x24"

24"x18"

R8-3a-A  
48"x48"

R9-3a  
24"x24"

18"x12"

R9-3a-A  
24"x24"

24"x18"

R9-3b(R)  
18"x12"

R9-3b(L)  
18"x12"

R10-11a  
24"x30"

R16-1  
24"x30"

R16-3  
18"x24"

R16-4  
18"x24"

R16-5  
36"x42"

R16-6  
24"x30"

R16-7  
24"x30"

R18-1  
24"x18"

W1-8  
18"x24"

W1-8-A  
36"x48"

W3-1a  
36"x36"

24"x18"

W3-1a-A  
48"x48"

24"x18"

W3-2a  
36"x36"

24"x18"

W3-2a-A  
48"x48"

24"x18"

W3-4  
48"x48"

W4-3  
36"x36"

W4-3-A  
48"x48"

W7-4  
78"x78"

W7-4a  
78"x60"

W8-6  
30"x30"

W8-6-A  
36"x36"

W8-6-B  
48"x48"

W9-3(L)  
48"x48"

W11-7  
36"x36"

24"x18"

W11-7-A  
48"x48"

24"x18"

W11-8  
36"x36"

24"x18"

W11-8-A  
48"x48"

24"x18"

W11-9  
36"x36"

W11-9-A  
48"x48"

W14-2  
30"x30"

W14-4  
36"x36"

W14-4-A  
48"x48"

W15-1  
36"x36"

W17-1(L)  
60"x60"

W18-1  
48"x60"

CW16-1(1/2)  
60"x60"

CW23-4  
48"x48"

S1-1  
36"x36"

S1-1-A  
48"x48"

S3-1  
30"x30"

S3-1-A  
36"x36"

S4-1  
24"x10"

S4-2  
24"x10"

S4-3  
24"x8"

S4-4  
24"x10"

|         |                                                             |        |
|---------|-------------------------------------------------------------|--------|
| 11/3/89 | Deleted Signs<br>W15-18, W15-2.<br>Replaced w/New<br>W15-1. |        |
| 7/1/87  | Added Signs W1-8,<br>W7-4, W7-4a and<br>W14-2.              |        |
| DATE    | REVISION                                                    | APP'D. |

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**SPECIAL 633 (HDOT STD TE-06)**

**MISCELLANEOUS SIGNS**

Scale: N.T.S. Date: June 5, 2009

SHEET No. 1 OF 1

M:\Mproj\1\mproj\200909H\sheet\shp025.dgn

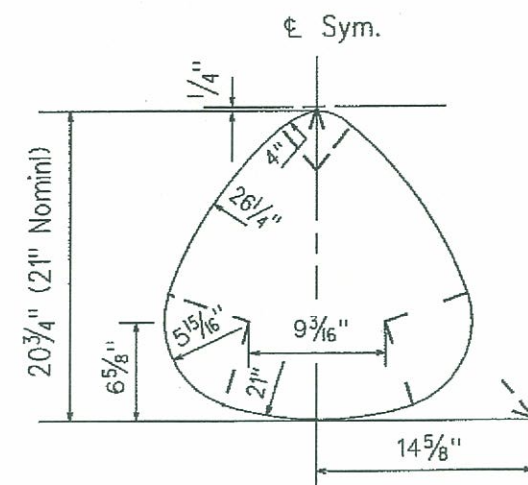


| STATE | SADDLE ROAD PROJECT | SHEET NO. | TOTAL SHEETS |
|-------|---------------------|-----------|--------------|
| HI    | HI HP & TI 200(2)   | P26       | P35          |

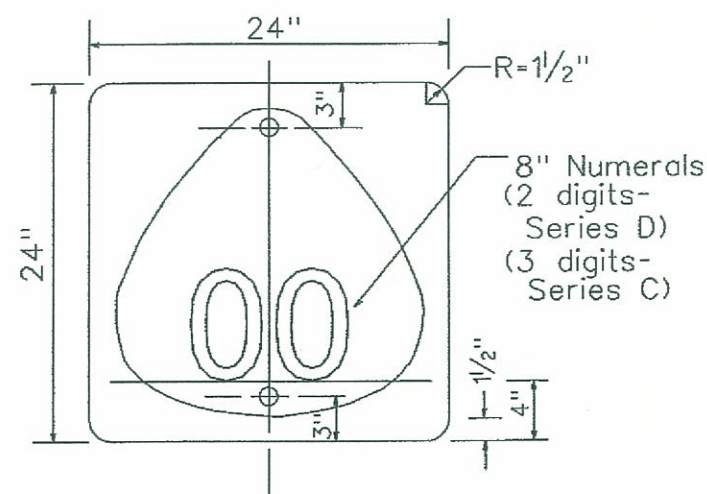
# GENERAL NOTES

- Marker 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.
- All markers shall be reflectorized unless otherwise specified.
- All markers shall be  $\frac{3}{8}$ " 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.



STATE ROUTE MARKER DETAIL



STATE ROUTE MARKER  
M1-5(00) 24"x24"



M2-1 21"x15"



M6-3 21"x15"



M3-1 24"x12"



M4-1 24"x12"



M4-2 24"x12"



M4-3 24"x12"



M4-5 24"x12"



M4-6 24"x12"



M4-7 24"x12"



M4-8 24"x12"



M5-1(L) 21"x15"



M6-4 21"x15"



M5-2(L) 21"x15"



M6-5(R) 21"x15"



M6-1 21"x15"



M6-6(R) 21"x15"



M6-2(R) 21"x15"



M6-7(R) 21"x15"

## AUXILIARY MARKERS

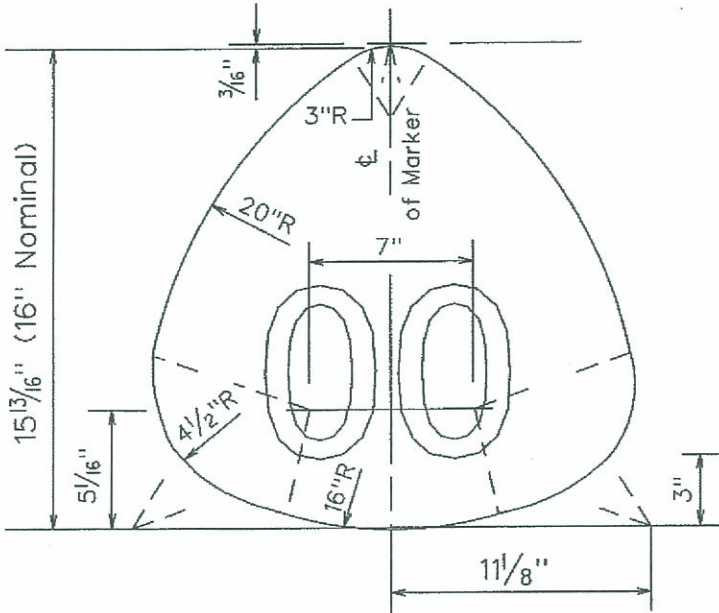
M:\Mproj\Lenzie\208009H\sheet\sthp026.dgn

|                                                                                                                                                                   |                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <p>The work was prepared by me or under my supervision and construction of this project will be under my observation.</p> <p>Expiration Date of License 4/10.</p> | U.S. DEPARTMENT OF TRANSPORTATION<br>FEDERAL HIGHWAY ADMINISTRATION<br>CENTRAL FEDERAL LANDS HIGHWAY DIVISION |
|                                                                                                                                                                   | <b>SPECIAL 633 (HDOT STD TE-12)</b><br><b>STATE ROUTE MARKER</b><br><b>&amp; AUXILIARY MARKERS</b>            |
|                                                                                                                                                                   | Scale: N.T.S. Date: June 5, 2009<br>SHEET No. 1 OF 1                                                          |



| STATE | SADDLE ROAD PROJECT | SHEET NO. | TOTAL SHEETS |
|-------|---------------------|-----------|--------------|
| HI    | HI HP & TI 200(2)   | P27       | P35          |

| MARKER SIZE | MULTIPLY DIMENSIONS BY | NUMERAL SIZE     |
|-------------|------------------------|------------------|
|             |                        | 2 Digit-Series D |
|             |                        | 3 Digit-Series C |
| 21"         | 1.3                    | 8"               |
| 32"         | 2.0                    | 12"              |
| 42"         | 2.63                   | 16"              |

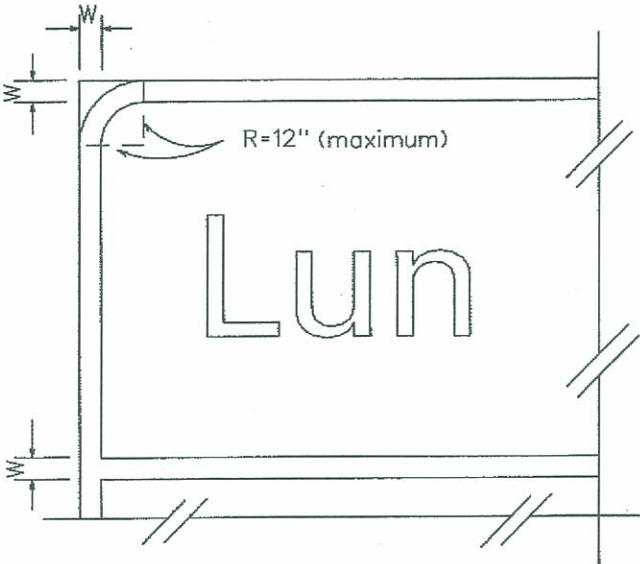


STATE ROUTE MARKER  
FOR GUIDE SIGNS

NOTE:

- State Route Markers on Guide signs shall have black numerals on a white reflectorized background mounted on a flat aluminum cut-out.
- Numerals shall conform to the latest editions of FHWA publication "Standard Alphabets for Highway Signs" and as amended.
- Cut-outs shall be fastened on sign panel with aluminum blind rivets. See Standard Specifications.

| RADII FOR SIGNS         |    |     |
|-------------------------|----|-----|
| Least Dimension of Sign | W  | R   |
| 2'-0" to 4'-6"          | 2" | 3"  |
| 4'-9" to 5'-6"          | 2" | 6"  |
| 5'-9" to 7'-6"          | 2" | 9"  |
| 7'-9" and greater       | 2" | 12" |



BORDER DETAIL  
FOR GUIDE SIGNS

NOTE:

- Area outside corner radius need not be trimmed.
- All borders shall be white reflectorized cut-outs.
- All Guide signs shall have borders.

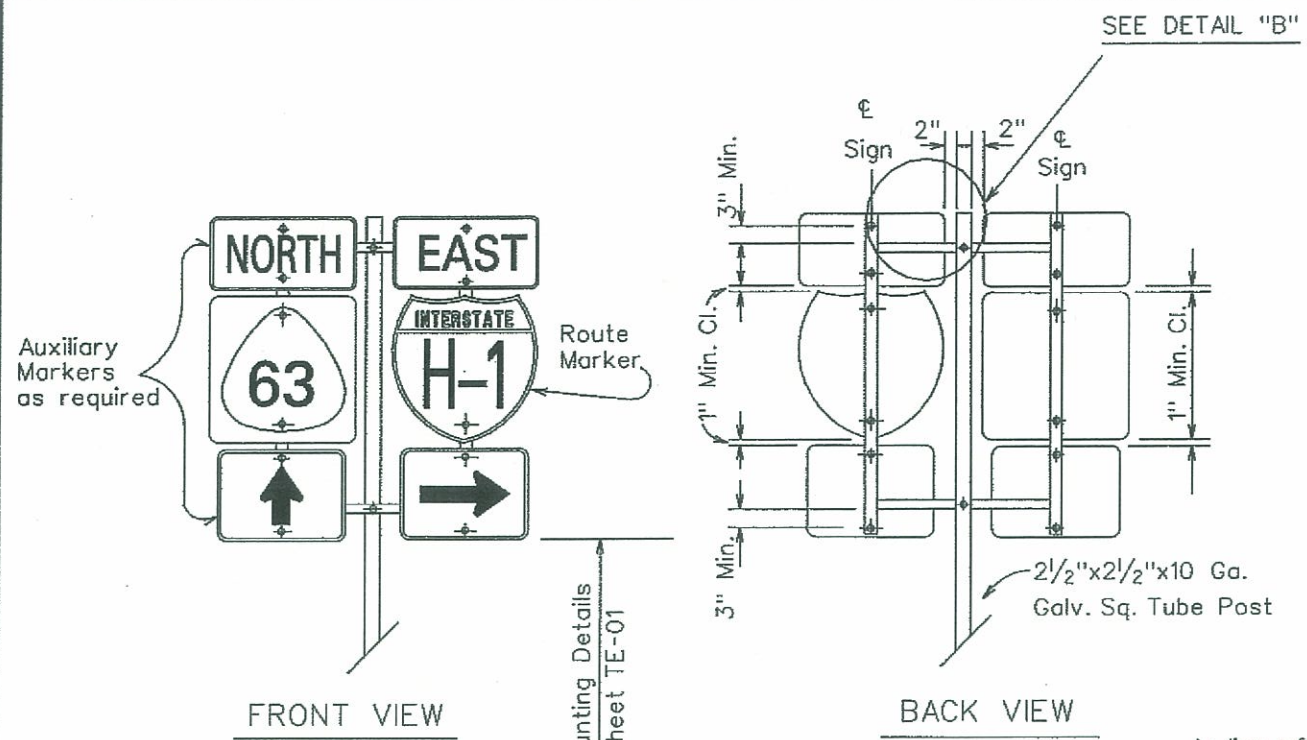


|                                                                                                               |                    |
|---------------------------------------------------------------------------------------------------------------|--------------------|
| U.S. DEPARTMENT OF TRANSPORTATION<br>FEDERAL HIGHWAY ADMINISTRATION<br>CENTRAL FEDERAL LANDS HIGHWAY DIVISION |                    |
| <b>SPECIAL 633 (HDOT STD TE-14)</b>                                                                           |                    |
| <b>STATE ROUTE MARKER &amp;</b>                                                                               |                    |
| <b>BORDER DETAIL FOR GUIDE SIGNS</b>                                                                          |                    |
| Scale: N.T.S.                                                                                                 | Date: June 5, 2009 |
| SHEET No. 1 OF 1                                                                                              |                    |

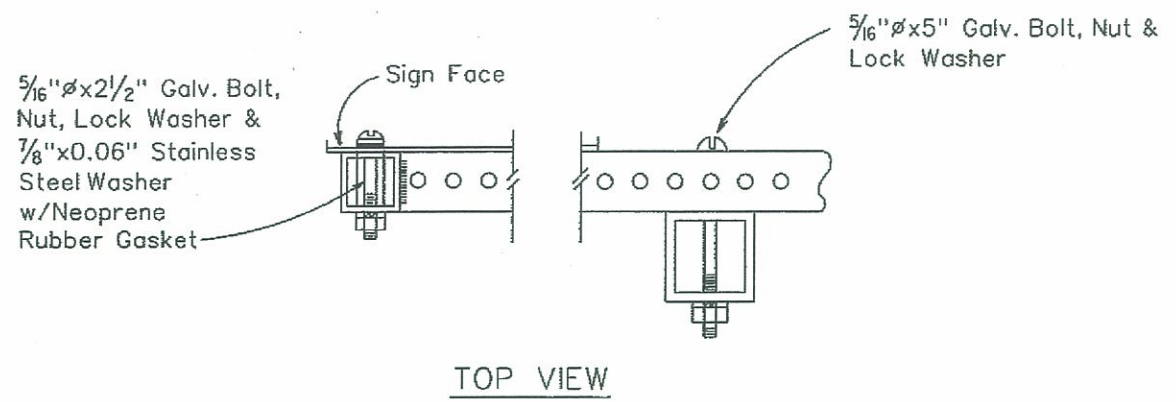
M:\Nproj\Lenhle\208009H\sheets\sthp027.dgn



| STATE | SADDLE ROAD PROJECT | SHEET NO. | TOTAL SHEETS |
|-------|---------------------|-----------|--------------|
| HI    | HI HP & TI 200(2)   | P28       | P35          |

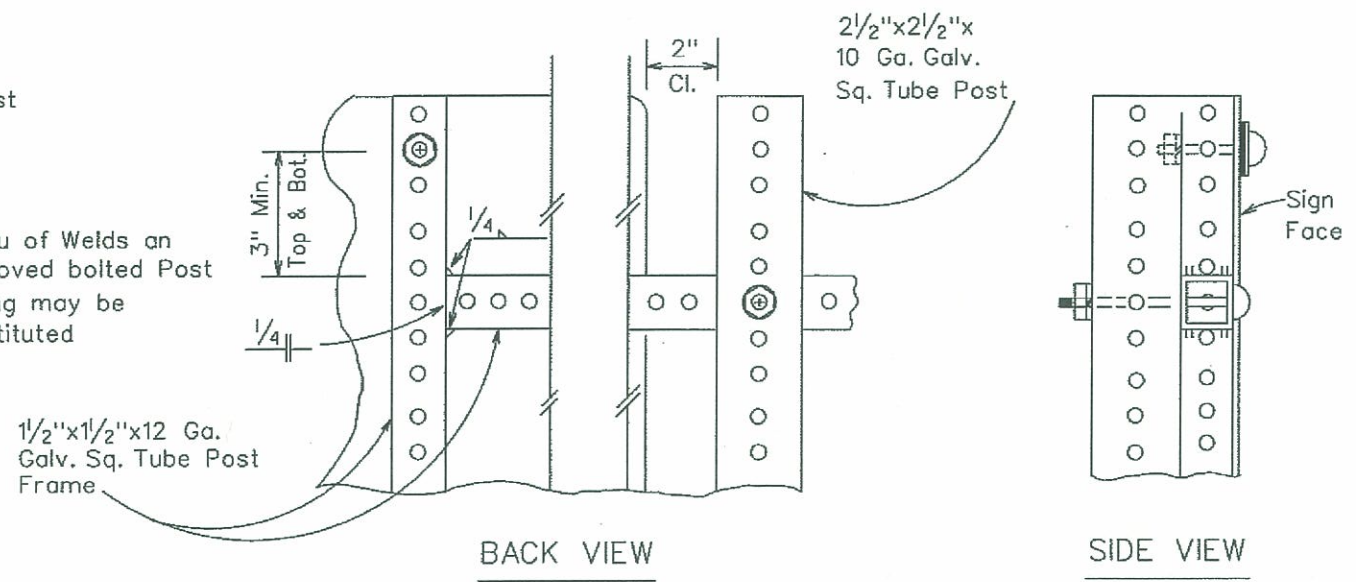


TYPE "B" ASSEMBLY



TOP VIEW

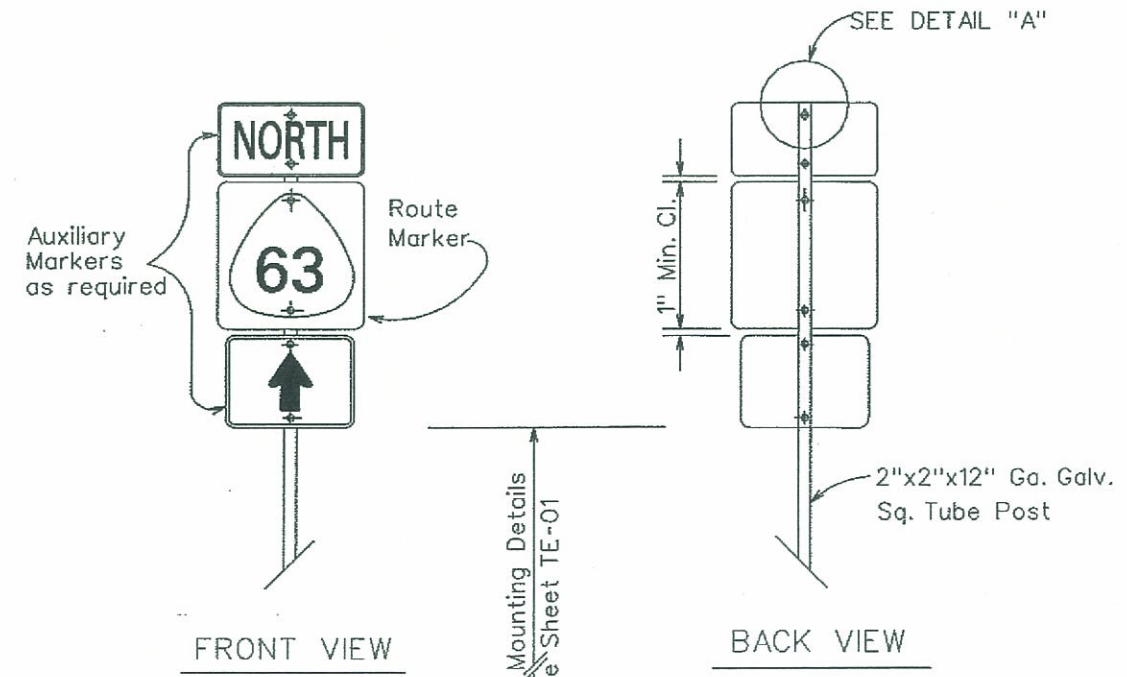
In lieu of Welds an approved bolted Post Fitting may be substituted



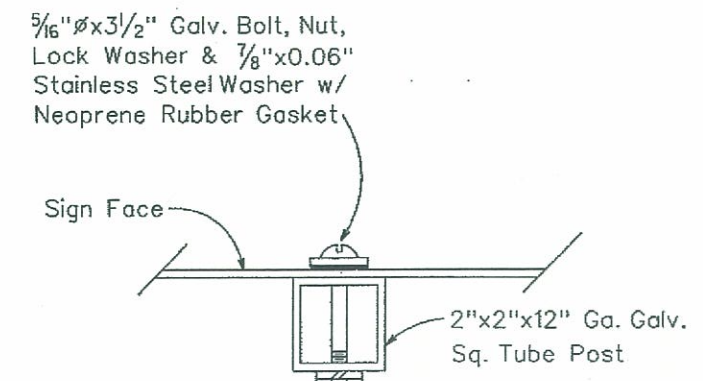
BACK VIEW

SIDE VIEW

DETAIL "B"



TYPE "A" ASSEMBLY



TOP VIEW

DETAIL "A"

M:\Mprj\Lenile\200003H\ sheets\shp028.dgn

The work was prepared by me or under my supervision and construction of this project will be under my observation.

Expiration Date of License 4/10.

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**SPECIAL 633 (HDOT STD TE-15)**

**ROUTE MARKER ASSEMBLIES**

Scale: N.T.S. Date: June 5, 2009

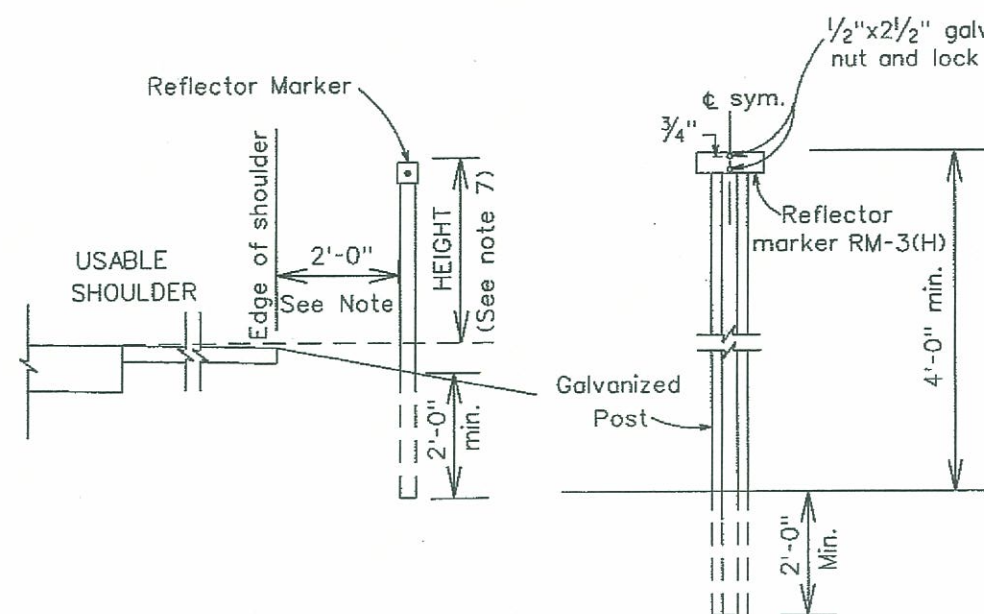
SHEET No. 1 OF 1



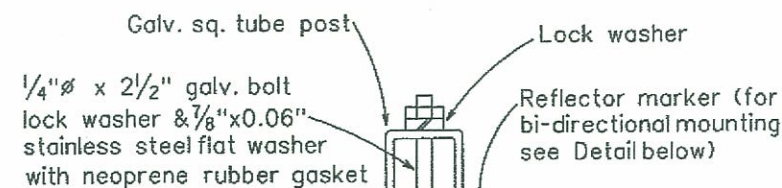
| STATE | SADDLE ROAD PROJECT | SHEET NO. | TOTAL SHEETS |
|-------|---------------------|-----------|--------------|
| HI    | HI HP & TI 200(2)   | P29       | P35          |

# GENERAL NOTES:

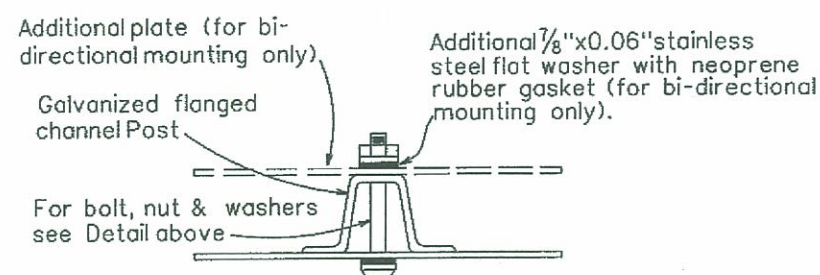
1. Clearance markers (RM-3, RM-4) shall be installed with the edge of the marker in line with the inner edge of the obstruction.
2. (R) or (L) indicates right or left and shall be as shown on the plans.
3. Reflector markers RM-1 and RM-2 shall be:
  - a) Yellow if placed along the left edge of divided 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 Contracting Officer.



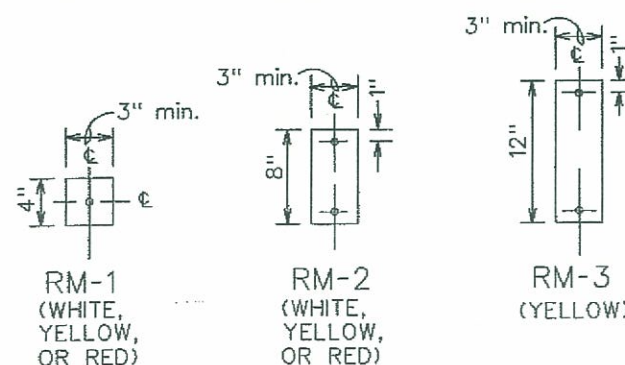
REFLECTOR MARKER MOUNTING DETAIL



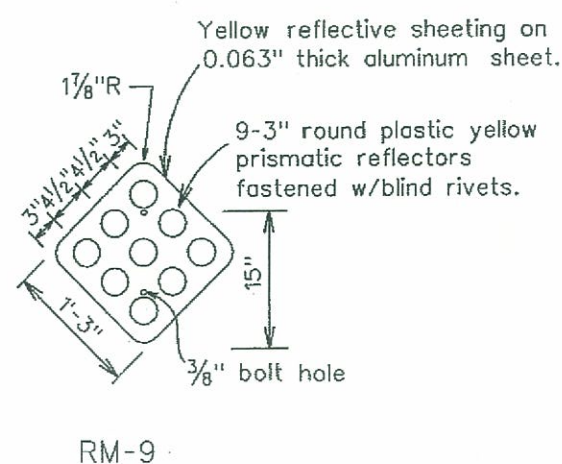
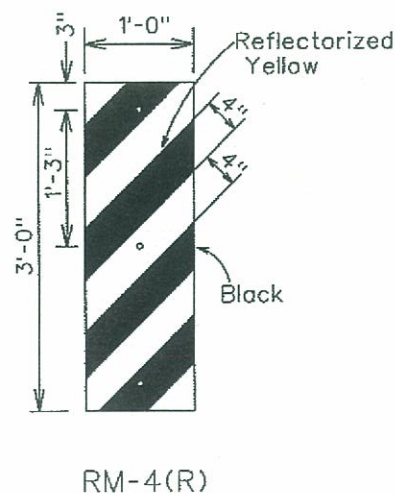
GALVANIZED SQUARE TUBE POST



GALVANIZED FLANGED CHANNEL POST  
TYPICAL MOUNTING DETAILS



REFLECTOR MARKERS



## Note:

The marker used for the end of a roadway shall be an RM-9 reflector with red reflective sheeting.



The work was prepared by me or under my supervision and construction of this project will be under my observation.  
Expiration Date of License 4/10.

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**SPECIAL 633 (HDOT STD TE-16)**  
**MISCELLANEOUS REFLECTOR MARKERS**

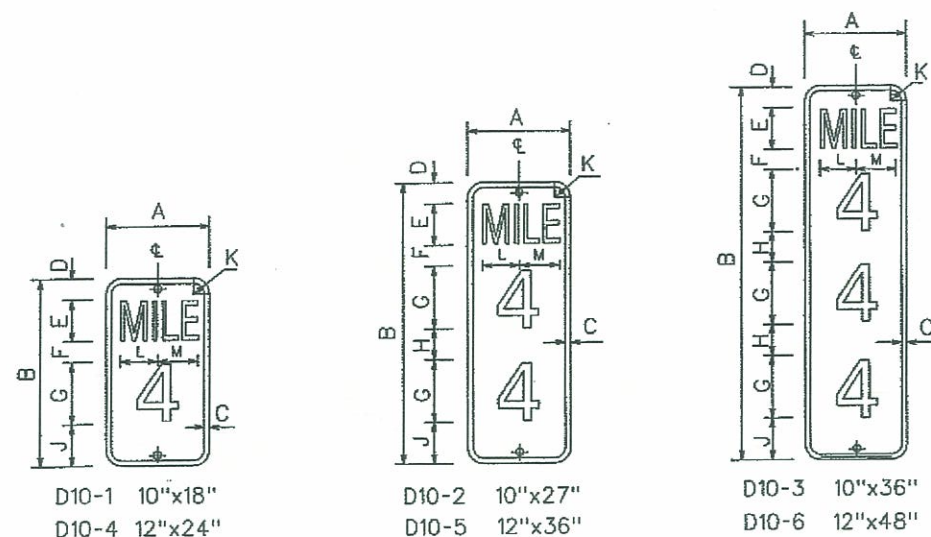
Scale: N.T.S.

Date: June 5, 2009

SHEET No. 1 OF 1

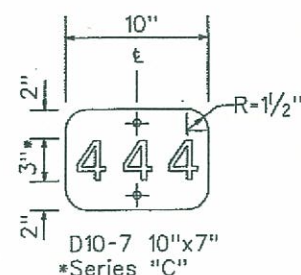


| STATE | SADDLE ROAD PROJECT | SHEET NO. | TOTAL SHEETS |
|-------|---------------------|-----------|--------------|
| HI    | HI HP & TI 200(2)   | P30       | P35          |

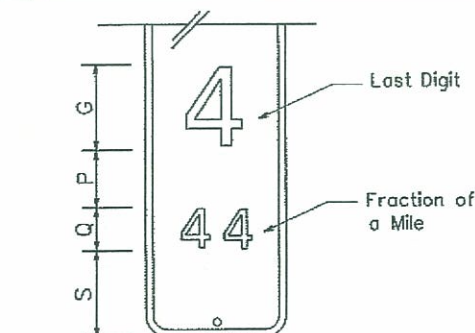


MILEPOST MARKER PLATE DETAILS

| MILEPOST PLATE SCHEDULE<br>(INCHES) |       |    |    |     |   |   |   |    |       |   |       |       |       |               |                |
|-------------------------------------|-------|----|----|-----|---|---|---|----|-------|---|-------|-------|-------|---------------|----------------|
| NAME                                | SIZE  | A  | B  | C   | D | E | F | G  | H     | J | K     | L     | M     | LETTER SERIES | NUMERAL SERIES |
| D10-1                               | 10x18 | 10 | 18 | 1/2 | 2 | 4 | 2 | 6  |       | 4 | 1 1/2 | 3 5/8 | 3 3/8 | B             | C              |
| D10-4                               | 12x24 | 12 | 24 | 1/2 | 3 | 4 | 3 | 10 |       | 4 | 1 1/2 | 4 5/8 | 4 1/8 | C             | C              |
| D10-2                               | 10x27 | 10 | 27 | 1/2 | 2 | 4 | 2 | 6  | 3     | 4 | 1 1/2 | 3 5/8 | 3 3/8 | B             | C              |
| D10-5                               | 12x36 | 12 | 36 | 1/2 | 3 | 4 | 3 | 10 | 3     | 3 | 1 1/2 | 4 5/8 | 4 1/8 | C             | C              |
| D10-3                               | 10x36 | 10 | 36 | 1/2 | 2 | 4 | 2 | 6  | 3     | 4 | 1 1/2 | 3 5/8 | 3 3/8 | B             | C              |
| D10-6                               | 12x48 | 12 | 48 | 1/2 | 3 | 4 | 3 | 10 | 2 1/2 | 3 | 1 1/2 | 4 5/8 | 4 1/8 | C             | C              |

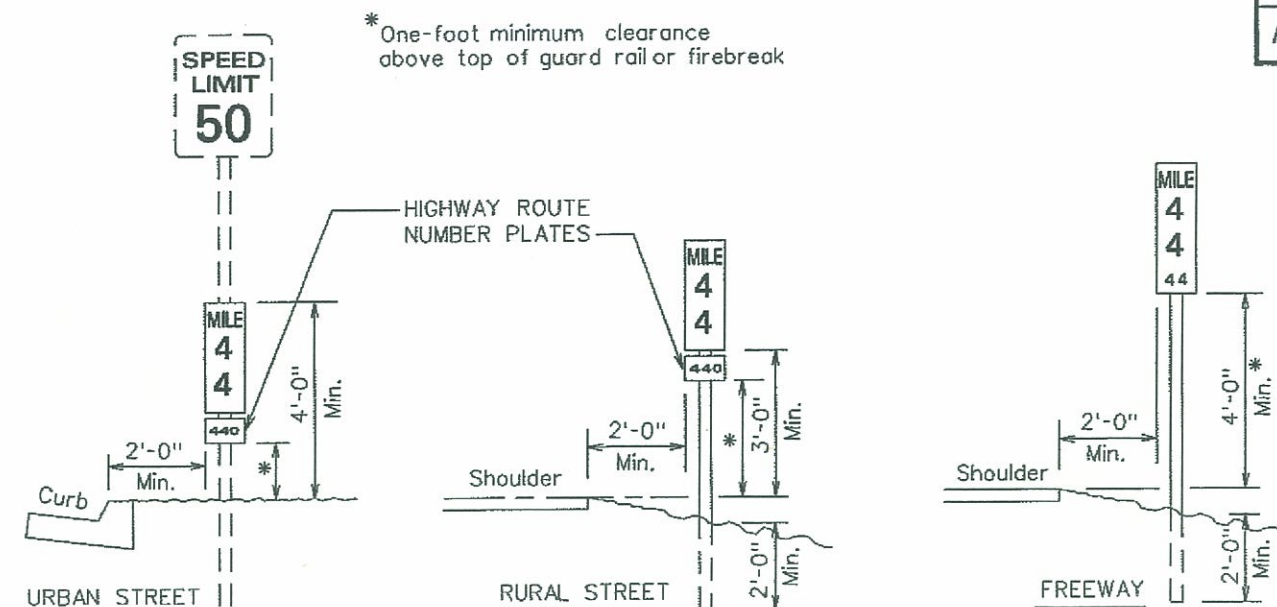


HIGHWAY ROUTE NUMBER  
PLATE DETAIL

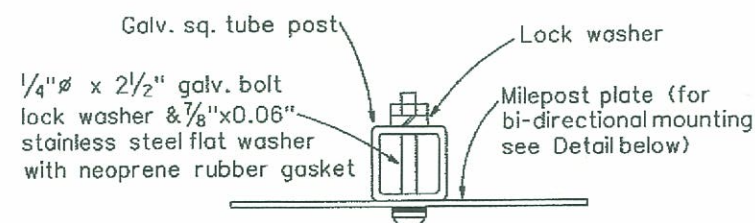


MILEPOST MARKER  
FRACTION DETAIL

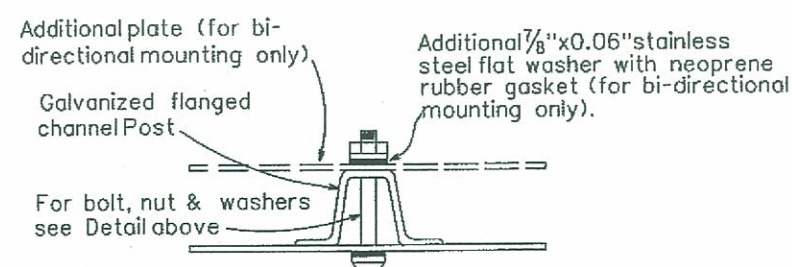
| MILEPOST PLATE SCHEDULE<br>WITH FRACTION OF A MILE |         |     |    |    |    |                |
|----------------------------------------------------|---------|-----|----|----|----|----------------|
| NAME                                               | SIZE    | G   | P  | Q  | S  | NUMERAL SERIES |
| D10-1a                                             | 10"x27" | 6"  | 4" | 3" | 6" | C              |
| D10-4a                                             | 12"x36" | 10" | 4" | 3" | 6" | C              |
| D10-2a                                             | 10"x36" | 6"  | 4" | 3" | 6" | C              |
| D10-5a                                             | 12"x48" | 10" | 4" | 3" | 6" | C              |
| D10-3a                                             | 10"x48" | 6"  | 4" | 3" | 6" | C              |
| D10-6a                                             | 10"x60" | 10" | 4" | 3" | 6" | C              |



TYPICAL ROADSIDE INSTALLATION



GALVANIZED SQUARE TUBE POST



GALVANIZED FLANGED CHANNEL POST

TYPICAL MOUNTING DETAILS

#### 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 w/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 w/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.)

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**SPECIAL 633 (HDOT STD TE-18)**

**MILEPOSTS**

Scale: N.T.S. Date: June 5, 2009

SHEET No. 1 OF 1

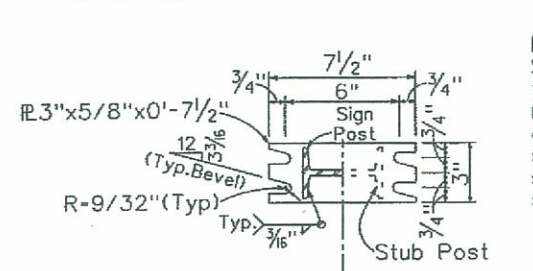
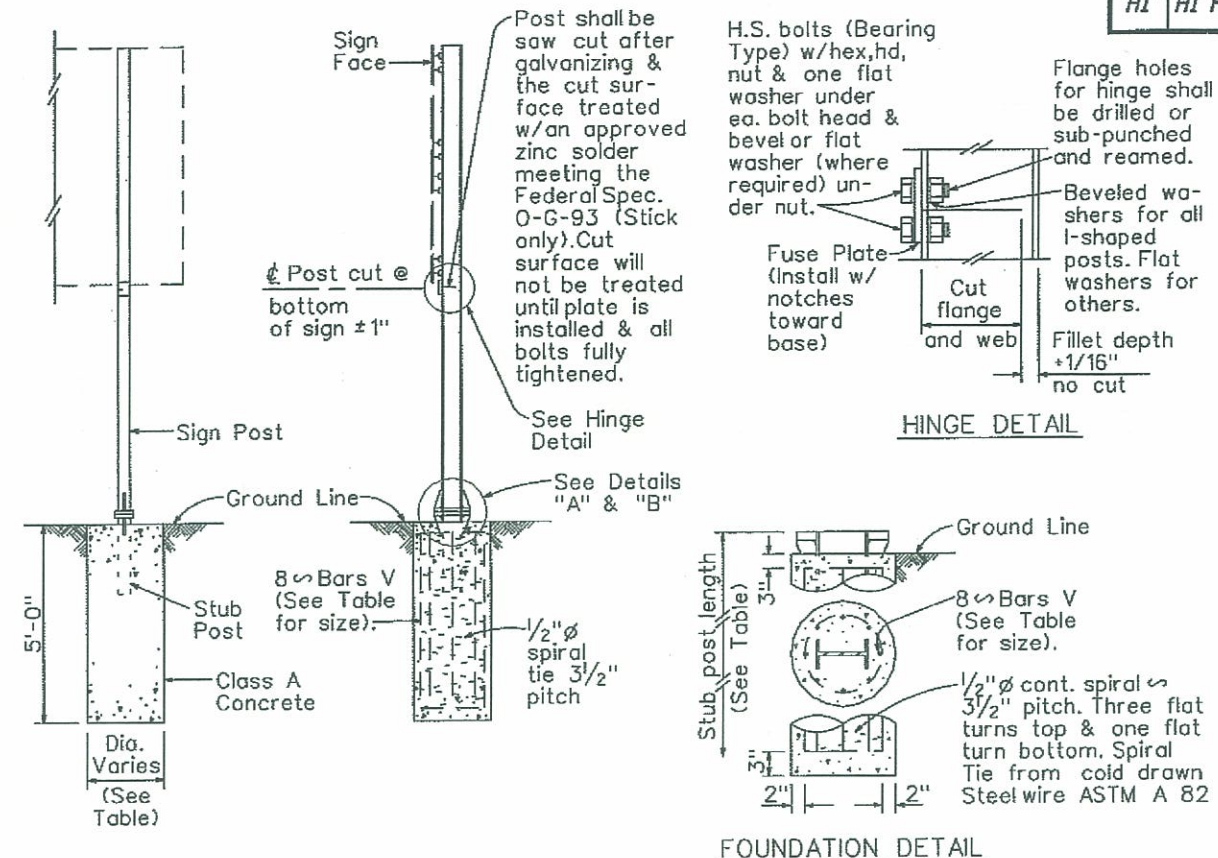


| STATE | SADDLE ROAD PROJECT | SHEET NO. | TOTAL SHEETS |
|-------|---------------------|-----------|--------------|
| HI    | HI HP & TI 200(2)   | P31       | P35          |

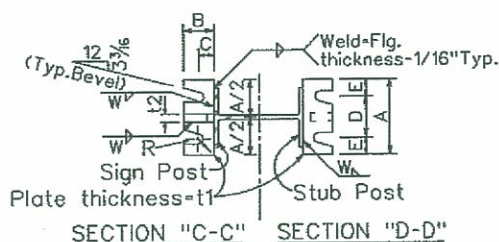
|           | FUSE PLATE DATA TABLE |                   |                   |                   |                   |                   |                 |                   |                  |                             | FOUNDATION DATA              |             |                   |              |             |
|-----------|-----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-----------------|-------------------|------------------|-----------------------------|------------------------------|-------------|-------------------|--------------|-------------|
| Post Size | F                     | G                 | H                 | J                 | K                 | L                 | N               | d <sub>1</sub>    | t <sub>3</sub>   | Bolt Dia.                   | Wt. of Ea. Fuse $\mathbb{R}$ | Stub Length | Stub Projection   | Footing Dia. | Bars V Size |
| W6x9      | 3 $\frac{5}{8}$ "     | 2"                | 1 $\frac{1}{8}$ " | 4"                | 2 $\frac{1}{4}$ " | $\frac{7}{8}$ "   | $\frac{1}{2}$ " | $\frac{9}{16}$ "  | $\frac{1}{4}$ "  | $\frac{1}{2}$ " $\emptyset$ | 1.09*                        | 2'-0"       | 3"                | 2'-0"        | *7          |
| W6x12     | 3 $\frac{3}{4}$ "     | 2"                | 1 $\frac{1}{8}$ " | 4"                | 2 $\frac{1}{4}$ " | $\frac{7}{8}$ "   | $\frac{5}{8}$ " | $\frac{11}{16}$ " | $\frac{3}{8}$ "  | $\frac{5}{8}$ " $\emptyset$ | 1.60*                        | 2'-0"       | 3"                | 2'-0"        | *7          |
| W6x16     | 4 $\frac{1}{2}$ "     | 2 $\frac{1}{2}$ " | 1 $\frac{1}{4}$ " | 6"                | 3 $\frac{1}{2}$ " | 1 $\frac{1}{4}$ " | $\frac{3}{4}$ " | $\frac{13}{16}$ " | $\frac{1}{2}$ "  | $\frac{3}{4}$ " $\emptyset$ | 3.75*                        | 2'-6"       | 3"                | 2'-0"        | *7          |
| W8x18     | 4 $\frac{1}{2}$ "     | 2 $\frac{1}{2}$ " | 1 $\frac{1}{4}$ " | 5 $\frac{1}{4}$ " | 2 $\frac{3}{4}$ " | 1 $\frac{1}{4}$ " | $\frac{3}{4}$ " | $\frac{13}{16}$ " | $\frac{1}{2}$ "  | $\frac{3}{4}$ " $\emptyset$ | 3.27*                        | 2'-6"       | 3"                | 2'-0"        | *7          |
| W8x21     | 4 $\frac{7}{8}$ "     | 2 $\frac{1}{2}$ " | 1 $\frac{1}{2}$ " | 5 $\frac{1}{4}$ " | 2 $\frac{3}{4}$ " | 1 $\frac{1}{4}$ " | $\frac{7}{8}$ " | $\frac{15}{16}$ " | $\frac{9}{16}$ " | $\frac{7}{8}$ " $\emptyset$ | 3.93*                        | 3'-0"       | 2 $\frac{1}{2}$ " | 2'-0"        | *8          |
| W10x22    | 5 $\frac{3}{8}$ "     | 3"                | 1 $\frac{1}{2}$ " | 5 $\frac{3}{4}$ " | 2 $\frac{3}{4}$ " | 1 $\frac{1}{2}$ " | $\frac{7}{8}$ " | $\frac{15}{16}$ " | $\frac{9}{16}$ " | $\frac{7}{8}$ " $\emptyset$ | 4.75*                        | 3'-0"       | 2 $\frac{1}{2}$ " | 2'-0"        | *9          |
| W10x26    | 5 $\frac{3}{8}$ "     | 3"                | 1 $\frac{1}{2}$ " | 5 $\frac{3}{4}$ " | 2 $\frac{3}{4}$ " | 1 $\frac{1}{2}$ " | $\frac{7}{8}$ " | $\frac{15}{16}$ " | $\frac{9}{16}$ " | $\frac{7}{8}$ " $\emptyset$ | 4.79*                        | 3'-0"       | 2 $\frac{1}{2}$ " | 2'-0"        | *10         |
| W12x30    | 5 $\frac{3}{8}$ "     | 3"                | 1 $\frac{1}{2}$ " | 6 $\frac{1}{2}$ " | 3 $\frac{1}{2}$ " | 1 $\frac{1}{2}$ " | $\frac{7}{8}$ " | $\frac{15}{16}$ " | $\frac{9}{16}$ " | $\frac{7}{8}$ " $\emptyset$ | 5.42*                        | 3'-0"       | 2 $\frac{1}{2}$ " | 2'-0"        | *11         |
| S3x5.7    | 3 $\frac{1}{8}$ "     | 1 $\frac{1}{2}$ " | 1 $\frac{1}{8}$ " | 2 $\frac{5}{8}$ " | 1 $\frac{1}{2}$ " | $\frac{9}{16}$ "  | $\frac{1}{2}$ " | $\frac{9}{16}$ "  | $\frac{1}{4}$ "  | $\frac{1}{2}$ " $\emptyset$ | 0.64*                        | 1'-6"       | 3 $\frac{1}{2}$ " | 1'-6"        | *5          |
| S4x7.7    | 3 $\frac{1}{8}$ "     | 1 $\frac{1}{2}$ " | 1 $\frac{1}{8}$ " | 2 $\frac{5}{8}$ " | 1 $\frac{1}{2}$ " | $\frac{9}{16}$ "  | $\frac{1}{2}$ " | $\frac{9}{16}$ "  | $\frac{1}{4}$ "  | $\frac{1}{2}$ " $\emptyset$ | 0.64*                        | 1'-6"       | 3 $\frac{1}{2}$ " | 1'-6"        | *5          |

| BASE CONNECTION DATA TABLE |                           |    |        |        |        |        |                |                |       |         |
|----------------------------|---------------------------|----|--------|--------|--------|--------|----------------|----------------|-------|---------|
| Post Size                  | Bolt Size & Torque        | A  | B      | C      | D      | E      | t <sub>1</sub> | t <sub>2</sub> | W     | R       |
| W6x9                       | 5/8" x 2 3/4" Torque=450" | 5" | 2"     | 1 1/4" | 2 3/4" | 1 1/8" | 3/4"           | 1/2"           | 1/4"  | 1 1/32" |
| W6x12                      |                           |    |        |        |        |        |                |                |       |         |
| W6x16                      |                           |    |        |        |        |        |                |                |       |         |
| W8x18                      | 3/4" x 3 1/2" Torque=750" | 6" | 2 1/4" | 1 3/8" | 3 1/2" | 1 1/4" | 1"             | 3/4"           | 5/16" | 1 1/32" |
| W8x21                      |                           |    |        |        |        |        |                |                |       |         |
| W10x22                     |                           |    |        |        |        |        |                |                |       |         |
| W10x26                     | 1/2" x 2 1/2" Torque=200" |    |        |        |        |        |                |                |       |         |
| W12x30                     |                           |    |        |        |        |        |                |                |       |         |
| S3x5.7                     | 1/2" x 2 1/2" Torque=200" |    |        |        |        |        |                |                |       |         |
| S4x7.7                     |                           |    |        |        |        |        |                |                |       |         |

SEE DETAIL "A"



NOTE: Sections shown are for installations on right shoulder & in gore. Reverse plate slot bevels for installations on left shoulder.



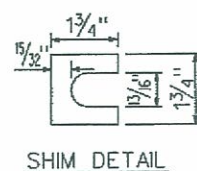
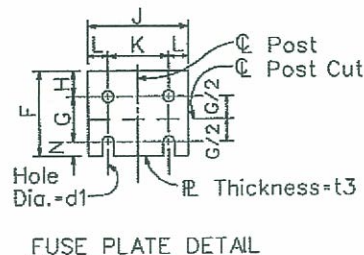
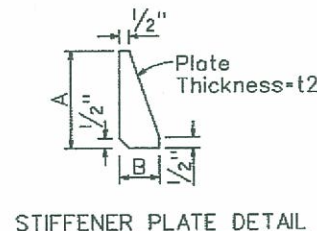
5/8" x 2 3/4" H.S. bolt w/ hex. hd., nut & 3 washers w/ each bolt. Torque=450". See bolting procedure.

Remove all galvanizing runs or beads in washer area.

#### PROCEDURE FOR ASSEMBLY OF BASE CONNECTION:

1. Assemble post to stub w/ bolts & w/ one flat washer on each bolt between plates.
2. Shim as required to plumb post.
3. Tighten all bolts the max. possible w/ 12" to 15" wrench to bed washers & shims & to clean bolt threads then loosen each bolt in turn & retighten bolts in systematic order to prescribed torque. (See Table)
4. Burr threads at junction w/ nut using a center punch to prevent nut loosening.

#### SIGN POST & STUB POST (For Wide Flange Shapes)



Furnish 2-0.012" thick & 2-0.032" thick shims per post. Shims shall be fabricated from brass shim stock or strip conforming to ASTM-B36.

#### GENERAL NOTES

1. Design shall conform w/ AASHTO Specifications for the design & Construction of Structural Supports for Highway Signs, Luminaires & Traffic Signals.
2. Materials & Fabrication shall conform to the requirements of the Standard Specifications & Special Provisions.
3. All holes shall be drilled. All plate cuts shall preferably be saw cuts, however, flame cutting will be permitted provided all edges are ground. Metal projecting beyond the plane of the plate face will not be tolerated.
4. Tighten the high strength bolts in the base connection only to the torque shown, do not overtighten. All bolts other than high strength bolts shall conform to ASTM A307, Class A.
5. All structural steel, bolts, nuts & washers shall be galvanized as per the Standard Specifications & Special Provisions. Structural steel to be galvanized after fabrication except as noted.
6. Structural steel shall conform to the requirements of ASTM A441.
7. Galvanize all of the post projecting above the concrete plus 6 inches minimum.
8. All friction fuse bolts shall be tightened in the shop following a method approved by the Contracting Officer. Tightening shall be to such a degree as to obtain the following minimum residual tension in each bolt:

| Bolt Size | Min. Tension | Bolt Size | Min. Tension |
|-----------|--------------|-----------|--------------|
| 1/2"      | 12050 lbs.   | 3/4"      | 28400 lbs.   |
| 5/8"      | 19200 lbs.   | 7/8"      | 36050 lbs.   |

9. Supplemental Sign shall not be installed below the Breakaway Hinges.



U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**SPECIAL 633 (HDOT STD TE-24)**

**BREAK-AWAY SIGN SUPPORTS FOR GROUND MOUNTED GUIDE SIGNS**

Scale: N.T.S. Date: June 5, 2009

SHEET No. 1 OF 1



| STATE | SADDLE ROAD PROJECT | SHEET NO. | TOTAL SHEETS |
|-------|---------------------|-----------|--------------|
| HI    | HI HP & TI 200(2)   | P32       | P35          |

## SIGN NOTES

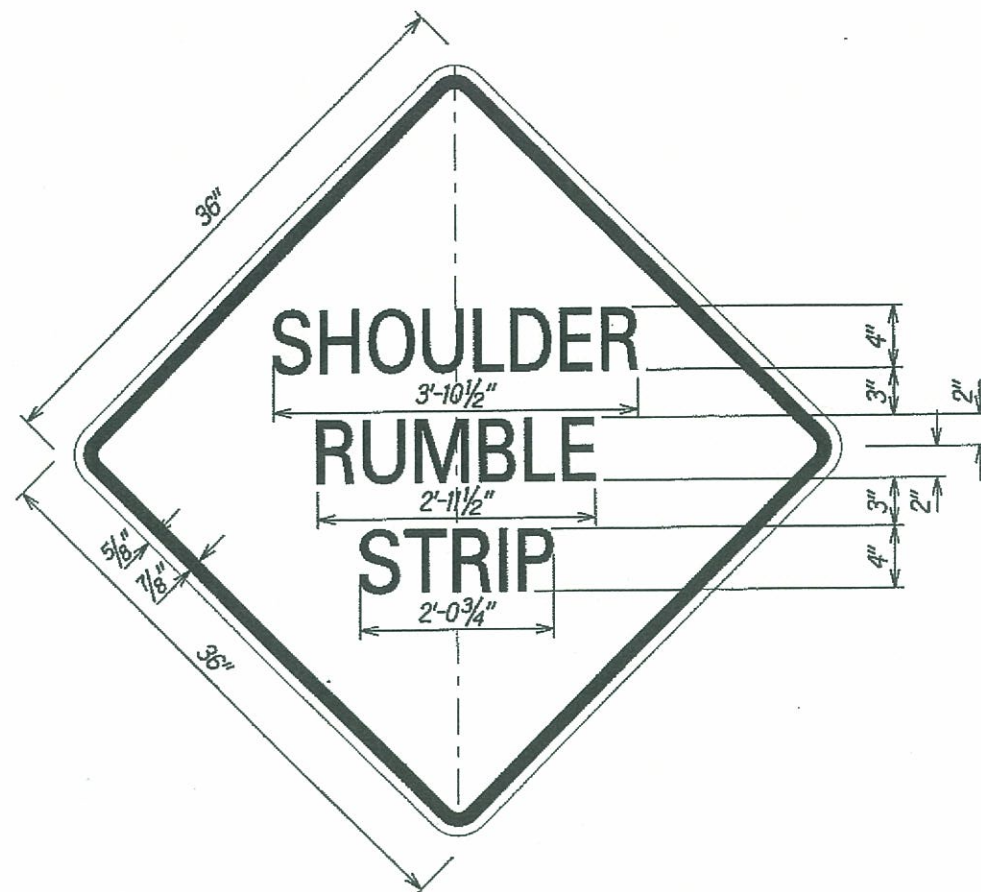
1. Letter Size:
  - a. Use series "E" when letters are all uppercase.
  - b. Use series "E" (M) when initial uppercase letter is used in conjunction with lowercase letters.
2. All signs shall conform to Section 633 of the Special Contract Requirements and the latest editions and amendments of the following FHWA publications:
  - a. "Manual on Uniform Traffic Control Devices for Streets and Highways" (MUTCD 2003)
  - b. "Standard Highway Signs"
3. Borders, messages, arrows, symbols and shield shall conform to details as shown on the plans and as specified in the MUTCD.
4. Sign messages are as indicated on the plan.
5. All panels are Retroreflective in accordance with Section 718 of the Special Contract Requirements. Minimum width of panels are 2 ft. Abutting edges of panels are in only one direction if vertical abutting edges are used. No horizontal abutting edges are allowed and vice versa.
6. Contractor submits all sign splicing details to the Contracting Officer for approval. All backing for signs 4 feet by 6 feet or less are of one sheet.
7. Backing for all new Regulatory and Warning Signs are not spliced.
8. Final locations of all signs are approved by the Contracting Officer prior to any installation work.
9. Existing signs that are to be replaced, are not removed until new signs are installed as replacements, or the messages are no longer necessary.
10. Existing signs not shown on these plans are to remain as posted unless otherwise directed by the Contracting Officer. Removal and disposal of existing signs and/or posts as designated on these plans are incidental to the various signing items.
11. Removal of Existing Delineators and Posts are considered incidental to the various signing items.
12. All Destination, Street Name, and Non-Standard Signs, that are removed and installed at the same or new location, are identical to the existing sign in size and text. The Contractor submits Shop Drawings to the Contracting Officer for approval prior to fabricating the sign.
13. All 3-post signs are installed on flanged channel posts, 1 & 2-post signs may use square tubing or flanged channel posts.
14. Mount Sign Posts with RM-3 reflector markers as directed in the field by the Contracting Officer.
15. Shoulder Rumble Strip signs shall be installed 50 feet before the first rumble strip depression. End Rumble Strip signs shall be installed 50 feet beyond the last rumble strip depression.
16. Use 4"-series C letters black legend on retroreflectorized yellow background.

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|                                                                                                                                                                                                                                                                                   |                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|  <p>The work was prepared by me or under my supervision and construction of this project will be under my observation.</p> <p><i>[Signature]</i></p> <p>Expiration Date of License 4/10.</p> | U.S. DEPARTMENT OF TRANSPORTATION<br>FEDERAL HIGHWAY ADMINISTRATION<br>CENTRAL FEDERAL LANDS HIGHWAY DIVISION |
|                                                                                                                                                                                                                                                                                   | <h3><u>SADDLE ROAD SIGN NOTES</u></h3>                                                                        |
|                                                                                                                                                                                                                                                                                   | Scale: N.T.S. <span style="float: right;">Date: June 5, 2009</span><br>SHEET No. 1 OF 2                       |

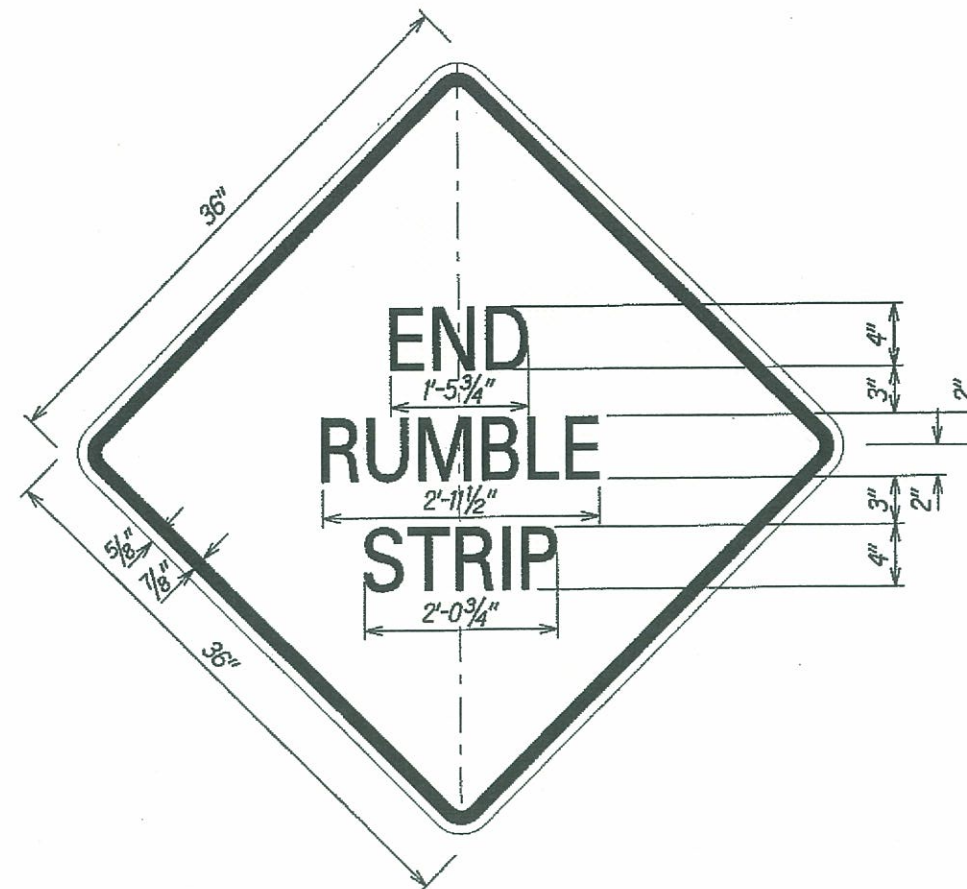


| STATE | SADDLE ROAD PROJECT | SHEET NO. | TOTAL SHEETS |
|-------|---------------------|-----------|--------------|
| HI    | HI HP & TI 200(2)   | P33       | P35          |



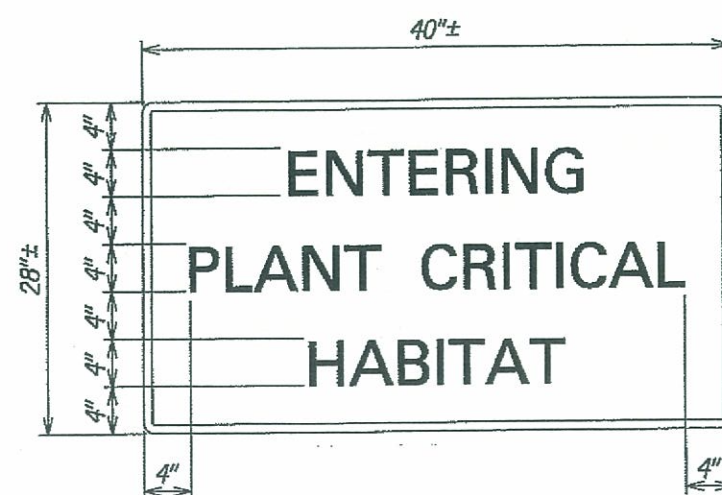
**SHOULDER RUMBLE STRIP SIGN**

Install per item number 63301-0000 Sign System.

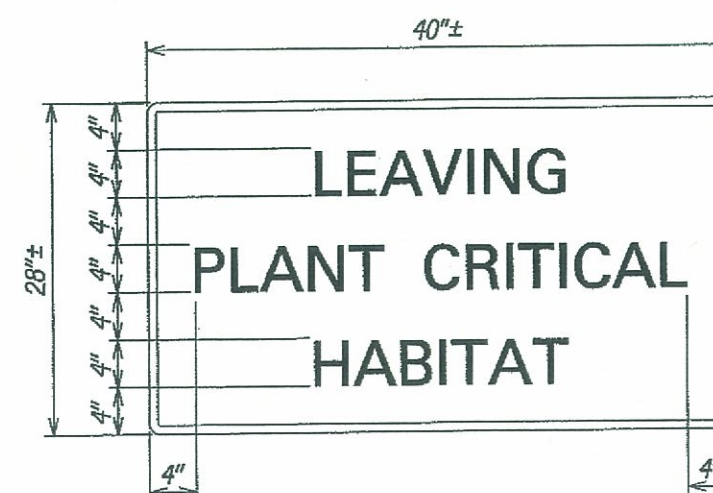


**END RUMBLE STRIP SIGN**

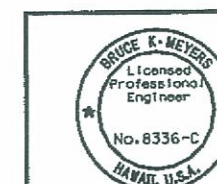
Install per item number 63301-0000 Sign System.



**SPECIAL 1  
ENTERING PLANT SIGN**



**SPECIAL 2  
LEAVING PLANT SIGN**



The work was prepared by me or under my supervision and construction of this project will be under my observation.  
Expiration Date of License 1/19.

U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
CENTRAL FEDERAL LANDS HIGHWAY DIVISION

**SADDLE ROAD SIGN DETAILS**

Scale: N.T.S.

Date: June 5, 2009

SHEET No. 2 OF 2









GENERAL NOTES:

- 1. All messages not shown must be approved by the Contracting Officer prior to installation.
- 2. The space between characters in a message shall be 1 grid unit unless otherwise shown or directed.
- 3. All pavement messages shall be white in color.

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|                                                                                                                                                                  |                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <p>The work was prepared by me or under my supervision and construction of this project will be under my observation.</p> <p>Expiration Date of License 4/10</p> | U.S. DEPARTMENT OF TRANSPORTATION<br>FEDERAL HIGHWAY ADMINISTRATION<br>CENTRAL FEDERAL LANDS HIGHWAY DIVISION |
|                                                                                                                                                                  | <b>SPECIAL 634 (HDOT STD TE-36)</b>                                                                           |
|                                                                                                                                                                  | <b>PAVEMENT ALPHABETS,<br/>NUMBERS &amp; SYMBOLS</b>                                                          |
| Scale: N.T.S.                                                                                                                                                    | Date: June 5, 2                                                                                               |
| SHEET No. 1 OF 1                                                                                                                                                 |                                                                                                               |