

☉ STUB (SEE DETAIL SHEET 2) & FOUNDATION

REMOVE ALL GALVANIZING RUNS OR BEADS IN WASHER AREA

STIFFENER PLATE (SEE DETAIL SHEET 2)

1/4

TYP.

STUB PROJECTION (SEE FOUNDATION TABLE)

4" MAXIMUM

1 1/2" BEVEL

STUB COLUMN LENGTH (SEE FOUNDATION TABLE)

3"

A

A

V BARS (8 REQUIRED) (SEE FOUNDATION TABLE)

7' FOR W8 X 13

8' FOR W8 X 18

4"

DIRECTION OF TRAFFIC

24"

3" COVER

3/8" PLAIN SPIRAL @ 6" PITCH WITH 3 FLAT TURNS TOP & 1 FLAT TURN BOTTOM OR CIRCULAR TIES #3 BARS AT 9" SPACING (12" MIN LAP)

ELEVATION

(W8 X 13, W8 X 18)

SECTION A - A

FOUNDATION TABLE

COLUMN SIZE	STUB LENGTH	STUB PROJECTION	BAR SIZES (#V)	STUB WT. (lbs.)	RE-STEEL WT. (lbs.)	CONCRETE (cu. yd.)
W8 X 13	30"	3"	6	38.8	90.2	0.81
W8 X 18	30"	3"	7	51.3	136.0	0.93



PREPARED BY DESIGN DIVISION

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MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN FOR

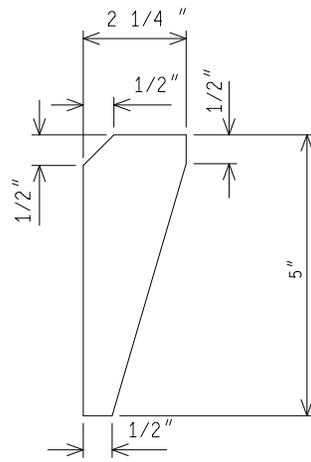
FOUNDATION (BREAK-AWAY)

08/17/05 F.H.W.A. APPROVAL

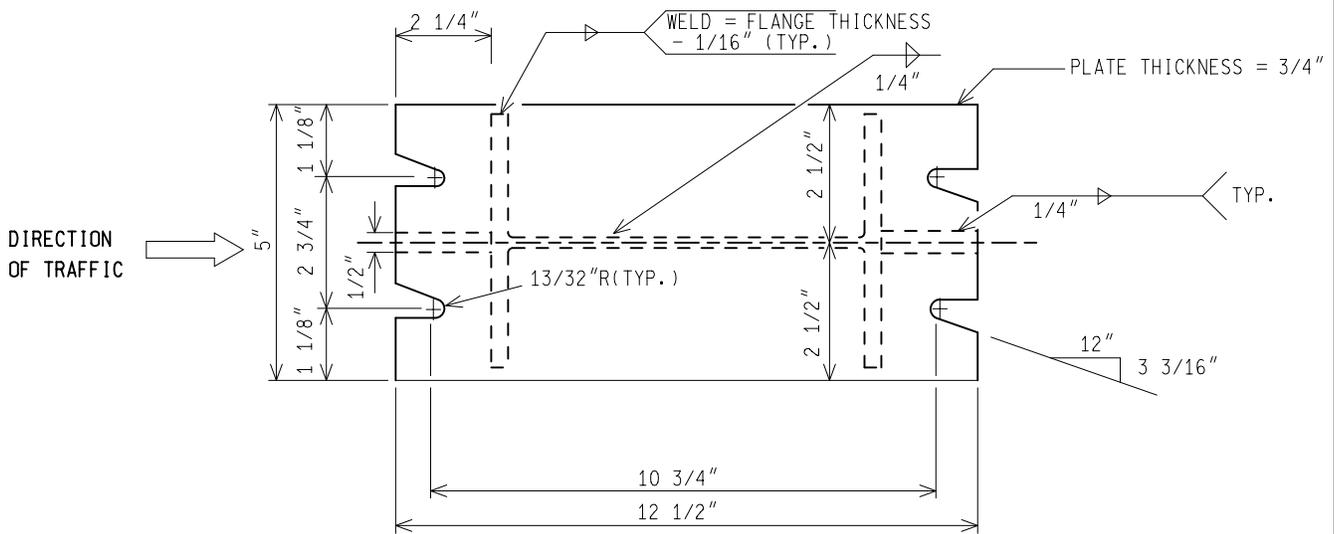
03/01/05 PLAN DATE

SIGN-230-A

SHEET 1 OF 2



STIFFENER PLATE DETAIL



STUB DETAIL-TOP VIEW

PLATE SHOWN IN STUB DETAIL IS FOR INSTALLATION ON RIGHT SHOULDER OR IN GORE AREA. PLATE SLOT BEVELS ARE OPPOSITE HAND FROM THAT SHOWN FOR INSTALLATION ON LEFT SHOULDER.

NOTES:

1. TOP OF FOUNDATION SHALL BE FLUSH WITH GROUND ON FLAT SLOPES. EDGE OF FOUNDATION NEAREST ROADWAY SHALL BE FLUSH WITH GROUND ON FILL SLOPES. EDGE OF FOUNDATION FARTHEST FROM ROADWAY SHALL BE FLUSH WITH GROUND ON CUT SLOPES.
2. BOLTS FOR CONNECTION OF COLUMN TO STUB ARE TO BE FURNISHED WITH COLUMN (SEE SIGN-220-SERIES-Eng).
3. CONCRETE SHALL BE USED AND PLACED AGAINST UNDISTURBED SOIL IN AN AUGERED HOLE. THE STEEL STUB SHALL BE HELD IN CORRECT POSITION WITH A TEMPLATE UNTIL THE CONCRETE HAS PROPERLY SET.
4. DEFORMED BARS, SPIRALS AND CONCRETE PER MDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION.

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN	08/17/05 F.H.W.A. APPROVAL	03/01/05 PLAN DATE	SIGN-230-A	SHEET 2 OF 2
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NOTE: THE ORIGINAL SIGNED COPY IS KEPT ON FILE AT THE MICHIGAN DEPARTMENT OF TRANSPORTATION.