

NO. DATE AUTH DESCRIPTION NO. DATE AUTH DESCRIPTION

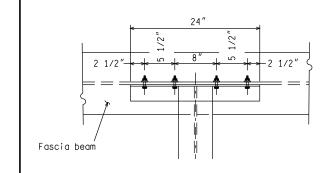
AS-LET PLAN REVISIONS

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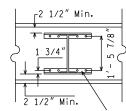
Michigan Department of Transportation

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If beam web is less than 7/16" thick add 3/8" x 3" x 2'-0" steel $\mathbb R$ on inside face.

DETAIL B



Steel $\angle 3$ "x 3"x 38" x 2' - 0" (Typ.) Drill 11/16" 0 holes to template for 2 1/2" x 5/8" 0 bolts, nuts, flat washers and lock washers.

DETAIL C - C

COLUMN SELECTION PROCEDURE:

460

440

420

400

380

340

320

300

280

220 $\frac{1}{2}$

200

160

140

120

100

80 60

40

20

AREA 240

IS 180

~ 360

(Sq.ft.

- 1.) Determine B using the longest required column. (B = 0" min)
- 2.) $L_{\rm b}$ = 1/2 of the distance between the top of the sign and the top clip angle bolt L = 1/2 (h + b - 2.0)
- 3.) Determine the sign area. (sq.ft.)

NOTES:

- 1. All bolts shall be galvanized high strength bolts (ASTM A-325). (Unless otherwise noted) all bolts, nuts and washers shall be hot dip galvanized according to ASTM A-153. Nuts shall be tapped 0.015 oversize.
- 2. All alum, components shall be 6061-T6 alum. alloy. All steel components shall be A-36 and shall be hot-dip galvanized according to ASTM A-123.
- 3. Sign location may be shifted to avoid joints or stiffeners.
- Bottom edge of sign shall be horizontal when erected and shall be a minimum of 1'-6'' above the lower bridge beam flange at all points.
- 5. Type C connection denotes a two-bracket sign connection.
- Type D connection denotes a three-bracket sign connection.
- 7. Sign connections to mounting support columns shall have the same bolt arrangement as shown for connections for sign to mounting supports for cantilevers and trusses. (Typical Plan VIII-700)

FOR MAINTENENCE PURPOSES ON EXISTING BRIDGE CONNECTIONS ONLY.

NOT TO SCALE

MICHIGAN DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAY DEVELOPMENT STANDARD PLAN

(SPECIAL DETAIL)

11/15/11 PLAN DATE

| SIGN-821-A | 3 OF 3

NOTE: THE ORIGINAL SIGNED COPY IS KEPT ON FILE AT THE MICHIGAN DEPARTMENT OF TRANSPORTATION.

1 2 3 4 5 6 7 8 9 10 11 12 13

L_b (L.ft.)

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