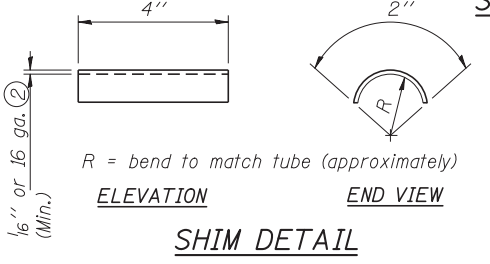
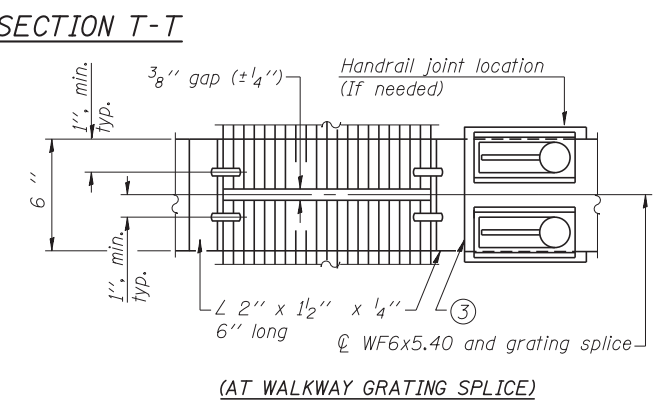
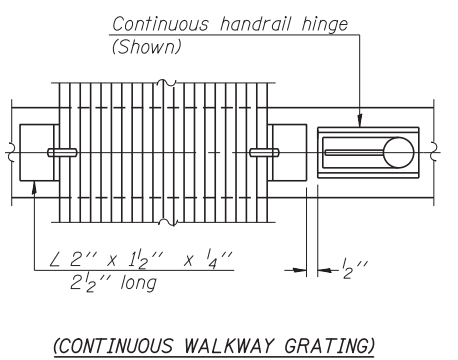
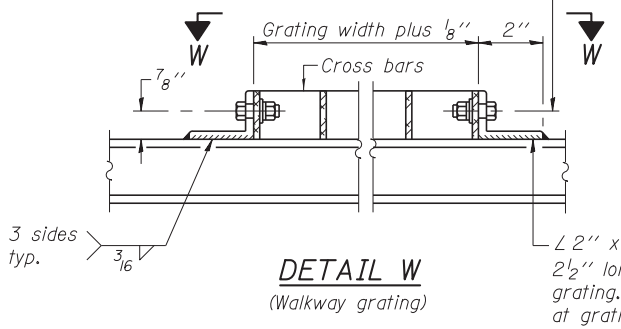


DETAIL T'
(Truss grating splice)
Details not shown same as Detail T. Alternate materials may be used subject to the Engineer's review and approval.

Drill 3/8" phi holes in walkway for 5/16" phi stainless steel bolts, 1" long, each with one stainless steel locknut and 2 stainless steel flat washers.

* Bracket dimensions are nominal and will vary based on actual DMS cabinet dimensions plus manufacturers mounting device.



SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars (MBB) shall be 3/16" x 1/2" on 1 3/16" centers and conform to ASTM B211 Alloy 6061-T6.
Cross bars (CB) shall be 3/16" x 1/2" on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:
Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of 1/2", spaced on 1 3/16" centers.
Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.

- ① Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- ② Stainless steel shims shall be placed as shown in Detail T if needed to compensate for alignment variations between horizontal and diagonal pipes beyond adjustment provided by angles. Thicker shims may be used subject to shims performing properly.
- ③ If Handrail Joint present, weld angle to WF6x5.40 and 1/4" extension bars. (See Sheet S-9 of 10.)

- ④ 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- ⑤ Tube to grating gap may vary from 0 to 1/2" max. to align walkway, allow for camber, etc.
- ⑥ Cabinet manufacturer must design and supply hardware for connection of cabinet to WF6's. Bolts must be stainless steel or hot dip galvanized high strength per IDOT specifications.
- ⑦ Based on maximum sign height, Ds, given on Sheet S-1 of 10. Adjust for actual sign height.

Structure Number	Station	A	⑦ B	C	⑦ D
1F016U045R004.9	58+85	7 3/8"	1'-9 1/2"	7'-0"	9'-4"



USER NAME = lkalite	DESIGNED PCA	REVISED
CHECKED MRI	REVISOR	REVISOR
PLOT SCALE = 0.883333:1	DRAWN LK	REVISOR
PLOT DATE = 09-OCT-2012	DATE 10/19/12	REVISOR

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTTERFLY SIGN STRUCTURES - ALTERNATE WALKWAY
DETAILS FOR DMS - ALUMINUM TRUSS & STEEL POST

SHEET NO. S-8 OF 10 SHEETS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	0105 WRS&HB	COOK	605	231
CONTRACT NO. 60G37				
ILLINOIS FED. AID PROJECT				