

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

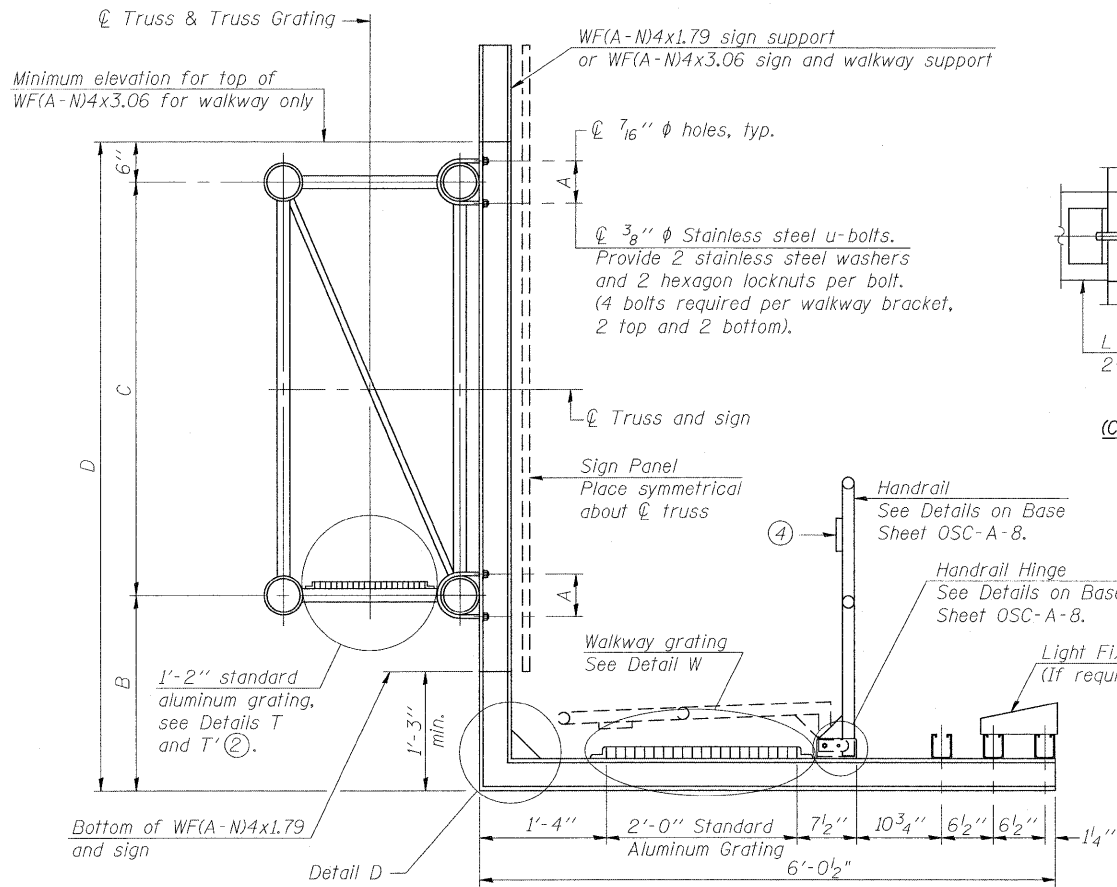
Main Bearing Bars (MBB) shall be $\frac{3}{16}$ " x $\frac{1}{2}$ " on $1\frac{3}{16}$ " centers and conform to ASTM B21 Alloy 6061-T6.
Cross bars (CB) shall be $\frac{3}{16}$ " x $\frac{1}{2}$ " on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

OR

Aluminum Grating with modified "t" sections for main bearing bars shall meet the following requirements:

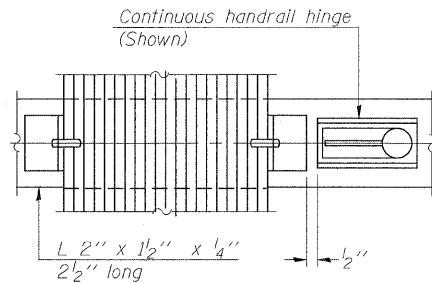
Main bars shall conform to ASTM B221 Alloy 6061-T6 and have a minimum section modulus equal to 0.0705 in.³ per bar, a depth of $\frac{1}{2}$ ", spaced on $1\frac{3}{16}$ " centers.

Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42 and spaced on 4" centers.



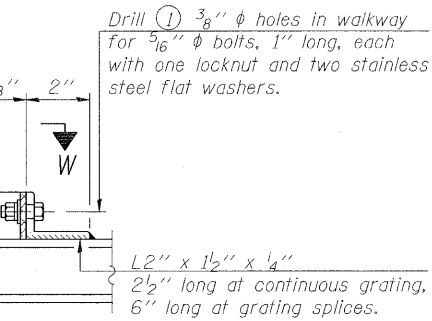
SECTION B-B

Sign shall be even with the top of the bracket, but it may extend no more than 6" above the top of the bracket for field adjustments.



(CONTINUOUS WALKWAY GRATING)

SECTION W-W

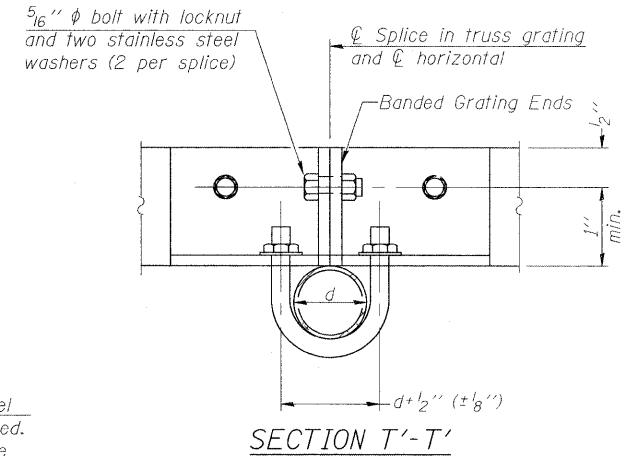


(AT WALKWAY GRATING SPLICE)

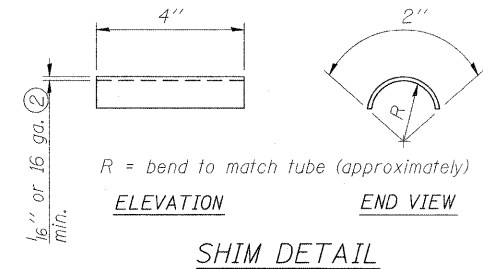
DETAIL W
(Walkway grating)

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.



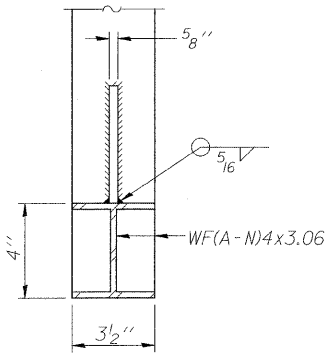
SECTION T'-T'



R = bend to match tube (approximately)

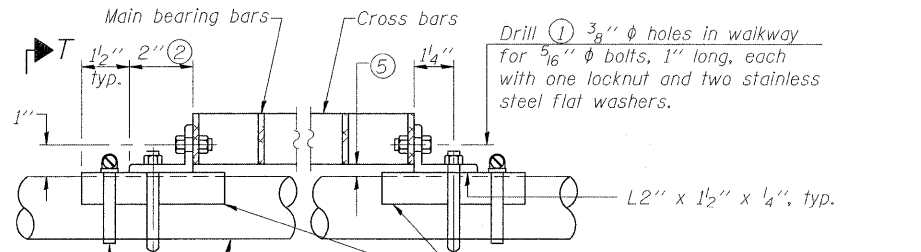
ELEVATION END VIEW

SHIM DETAIL



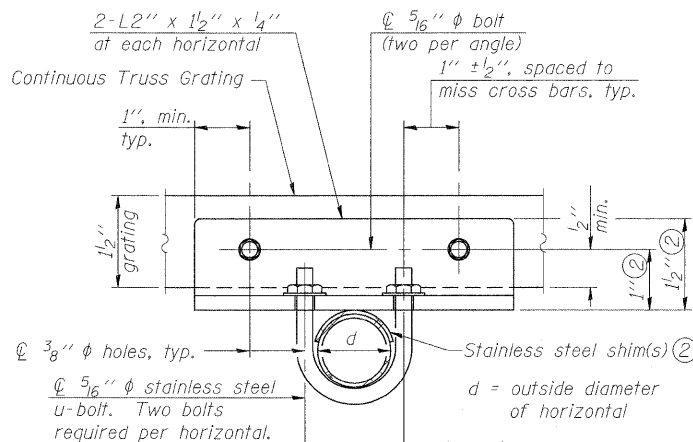
SECTION D-D

Screw type stainless steel tube clamp at shim location



DETAIL T

(Continuous Truss grating)

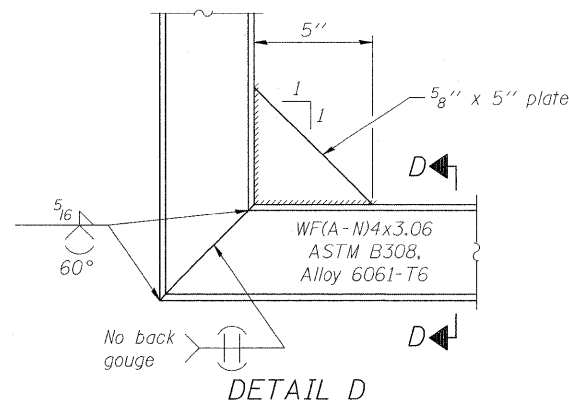


SECTION T-T

NUMBER	REVISION	DATE

DESIGNED M.J.J.	200
CHECKED J.T.H.	EXAMINED
DRAWN M.J.J.	PASSED
CHECKED J.T.H./ALN	ENGINEER OF BRIDGES AND STRUCTURES

OSC-A-7 6-1-09



DETAIL D

Structure Number	Station	A	⑥ B	C	⑥ D
#7C058UB51L017.13	1152+86	8- $\frac{3}{8}$ "	1'-3"	7'-0"	9'-3"
#7C058UB51R017.11	1156+75	8- $\frac{3}{8}$ "	1'-3"	7'-0"	9'-3"

- Drilling holes in grating may be done in shop or field, based on Contractor's preference and subject to accurate alignment.
- 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.
- If Handrail Joint present, weld angle to WF(A-N)4 and $\frac{1}{4}$ " extension bars. (See Base Sheet OSC-A-8.)
- $\frac{1}{8}$ " x $\frac{1}{2}$ " x 2" welded to handrail posts to protect locations that contact grating.
- Tube to grating gap may vary from 0 to $\frac{1}{2}$ ", max. to align walkway, allow for camber, etc.
- Based on actual sign height, D_s, given on OSC-A-1.

CANTILEVER SIGN STRUCTURES WALKWAY DETAILS ALUMINUM TRUSS & STEEL POST				
THOUVENOT, WADE & MOERCHEN, INC.		CORPORATE OFFICE 4940 Old Collinsville Road Swansea, Illinois 62226 Tel: 618.624.4488 Fax: 618.624.6688 SWANSEA • WATERLOO • EDWARDSVILLE • CARBONDALE • ST. CHARLES		
F.A.P. RTE. 322		SECTION (58-64HB-1)B-1	COUNTY MACON	TOTAL SHEETS 149
SHEET NO. 12		US ROUTE 51		SHEET NO. 107
15 SHEETS		CONTRACT NO. 74387		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



Plotted by: mjaost 3/12/2010 4:26:58 PM