



SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be 3/16" x 1/2" on 1 3/16" centers and conform to ASTM B221 Alloy 6061-T6.
 Cross bars 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 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.

Structure Number	Station	A	⑥ B	C	⑥ D*
5 S 057 1039 R000.50	I26+18		4'-7 1/2"	5'-3"	10'-4 1/2" & VAR.
5 S 057 1039 R001.00	I54+83.5		4'-7 1/2"	5'-3"	10'-4 1/2" & VAR.

* See also "Sign Truss Mounting Details" Sheets 105 & 106 for the information needed to determine the variable walkway support & sign support lengths.

- 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 1/4" extension bars. (See Base Sheet OS-A-11.)
- 1/8" x 1/2" x 2" welded to handrail posts to protect locations that contact grating.
- Tube to grating gap may vary from 0 to 1/2", max. to align walkway, allow for camber, etc.
- Based on actual height of tallest sign given on OS-A-1.

OS-A-10

1-20-11

FILE NAME =	USER NAME = ceer-lookjd	DESIGNED - JAL	REVISED -
er:\pwork\pwidot\ceer-lookjd\0266557-1046179-sht-details.dgn		DRAWN -	REVISED -
PLOT SCALE = 40.0000' / 1"		CHECKED -	REVISED -
PLOT DATE = 10/7/2011		DATE - 04/26/11	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ALUMINUM SIGN STRUCTURES
 ALUMINUM WALKWAY DETAILS
 SCALE: SHEET NO. 12 OF 24 SHEETS STA. TO STA.

F.A. R.F.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		Various	178	117
			CONTRACT NO. 46179	
ILLINOIS FED. AID PROJECT				

•VARIOUS COUNTIES
 ••D-5 OVD SIN STR REPL 2012-06