



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 "4" 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.

Structure Number	Station	A	⑥ B	C	⑥ D *
5-01 5S 010 1074 R180.40	1134+50		4'-6"	4'-6"	9'-6"
5-02 5S 010 1074 R181.19	1174+50		4'-9"	4'-6"	& VAR.
5-04 5S 010 1074 R182.43	1243+75		6'-3"	4'-6"	11'-3"
5-07 5S 010 1074 L182.76	1265+75		4'-9"	4'-6"	9'-9"
5-08 5S 010 1074 L181.53	1198+06		4'-9"	4'-6"	9'-9"
5-09 5S 010 1074 L180.76	1160+50		6'-6"	4'-6"	11'-6"

- 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 WF(A-N)4 and 1/4" extension bars. (See Base Sheet OS-A-11.)
- ④ R 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 Based on actual height of tallest sign given on OS-A-1.

OS-A-10 6-1-12

* See also " Sign Truss Mounting Details " sheets 31-36 for the information needed to determine the variable walkway support and sign support lengths.

FILE NAME * c:\pr-work\p\dot\buckles\j\030823\1054222-Sht-Sign-Structure-Details.dgn	USER NAME * bucklesj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	OVERHEAD SIGN STRUCTURES ALUMINUM WALKWAY DETAILS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE * 1/8" = 1'-0"	CHECKED -	REVISED -	74				CHAMPAIGN	50	46	
Default	DATE -	REVISED -	SCALE:			SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 46222		
PLOT DATE * 8/22/2012								ILLINOIS FED. AID PROJECT		