



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 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
4S0901074L100.0	482+66.50	5 1/2"	7'-6"	4'-6"	12'-6"
4S0901074R100.3	498+50.00	6"	5'-10 1/2"	5'-3"	11'-7 1/2"
4S0901074L100.5	508+15.00	7 1/2"	7'-6"	7'-0"	15'-0"
4S0901074R100.6	515+50.00	6"	5'-10 1/2"	5'-3"	11'-7 1/2"
4S0901155R031.9	17+68.62	5 1/2"	4'-3"	4'-6"	9'-3"
4S0901155R031.2	54+00.00	5 1/2"	4'-0"	4'-6"	9'-0"

- 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.

FILE NAME =	USER NAME = mbecker	DESIGNED - MFB	REVISED -
xxxxxx.68620.13.w4.dgn		CHECKED - KJN	REVISED -
	PLOT SCALE =	DRAWN - MFB	REVISED -
	PLOT DATE = 7/16/2012	CHECKED - KJN	REVISED -

F.A.I. RT.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	90-[14R]14HB-4,14,14HB[BR]	TAZEWELL	2433	1633
CONTRACT NO. 68620			ILLINOIS FED. AID PROJECT	