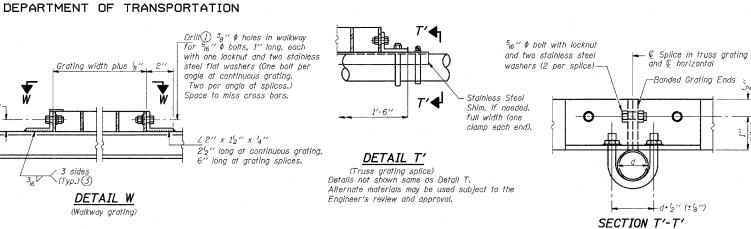


• (1516.1, 1717, & 1818) R-4

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT 62304



Main bearing bars--Cross bars Drill  $\bigcirc 3_8$ "  $\phi$  holes in walkway for  $^{5}_{16}$ "  $\phi$  bolts, 1" long, each [5] H<sup>1/4</sup> with one locknut and two stainless steel flat washers. Stainless steel shim(s). (2) If needed, place on top of horizontals and horizontal diagonals. ∟<sub>Horizontal</sub> ³<sub>8</sub>" ¢ holes in angles for Secure with one stainless steel clamp per side. Screw type stainless steel See "Shim Detail". 5<sub>16</sub> " ¢ stainless steel u-bolts. tube clamp at shim location Two stainless steel washers and hot dip galvanized steel nuts required per bolt.

> required at horizontals only. DETAIL T (Continuous Truss grating)

U-bolt and angle connections

STATE OF ILLINOIS

## SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

Main Bearing Bars shall be  ${}^3\!\!\!\!_{16}$  " x  $1{}^1\!\!\!\!_{2}$ " on  $1{}^3\!\!\!\!_{16}$  " centers and conform to ASTM B221 Alloy 6061-76. Cross bars shall be  $^3{}_{16}{}^{\prime\prime}$  x  $^1{}_2{}^{\prime\prime}$  on 4 $^{\prime\prime}$  centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

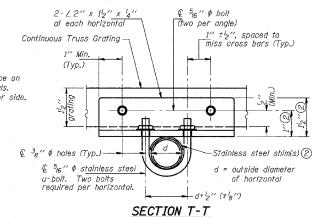
## OR

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

or I'2", spacea on 146" cent	ers.					
Cross bars shall conform to	ASTM	B221	Alloy	6063-T5	or	T-42
and spaced on 4" centers.						

Structure Number	Station	Α	В	С	D
1S0161057L358.0	334+00	5½"	5'-3"	4'-6"	10'-3"
1S016I094L063.8	2006+00	6"	5'-3"	4'-6"	10'-3"
·					
	-				
, , , , , , , , , , , , , , , , , , ,					
	····				*



- 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.
- $\bigcirc$  If Handrail Joint present, weld angle to WF(A-N)4 and  $^{l}_{4}$ " extension bars. (See Base Sheet OS-A-11.)
- 4  $\begin{picture}(4) \put(6){12pt} \put$ contact grating.
- (5) Tube to grating gap may vary from 0 to  $\frac{1}{2}$ " (max.) to align walkway, allow for camber, etc.

	REVISIO	NS	
N	REVISIO	DATE	

ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 94 (DAN RYAN EXPRESSWAY)

> OVERHEAD SIGN STRUCTURES ALUMINUM WALKWAY DETAILS

SCALE: AS NOTED DATE: MARCH 7, 2006 DRAWN BY: AMB CHECKED BY: TB

TY:LININTERNATIONAL

CHECKED

CHECKED OS-A-10 © Truss and Grating

2'-0" Standard

Aluminum Grating

Bottom of WF(A-N)4x1.79

and sign

R = bend to match tube (approximately,

SHIM DETAIL

WF(A-N)4x3.06 ASTM B308, Alloy 6061-T6

PASSED

DETAIL C

(See Detail P, Base Sheet OS-A-11.)

11/1/2002

END VIEW

—Plate <sup>5</sup>8" x 5"

Minimum elevation for

top of WF(A-N)4x3.06 for support walkway only.

Truss grating

See Detail

and Detail T

ELEVATION

No back

WF(A-N)4x1.79 (See Base Sheet OS-A-2)

`³g" ¢ Stainiess steel u-bolts.

Provide 2 stainless steel washers

4 bolts required per walkway bracket.

See Base Sheet OS-A-11.

See Detail E on Base Sheet OS-A-11.

rla 1<del>11 rla</del>

Light Fixture

(If required)

Handrail splice location

© WF(A-N)4 and grating splice-

(If needed)

(AT WALKWAY GRATING SPLICE)

(CONTINUOUS WALKWAY GRATING)

SECTION W-W

(Shown)

12" x 12" x 4" 25" long

Continuous handrall hinge

and 2 hexagon locknuts per bolt.

or WF(A-N)4x3.06 behind signs

Γ € 7<sub>16</sub>" Φ holes (Typ.)

and sign

Sign Panel

TI

SECTION B-B

SECTION C-C

Place symmetrical

Walkway grating

2'-0" Standard

Aluminum Grating

- WF(A - N)4 x 3.06

3<sub>8</sub>" gap (± 1<sub>4</sub>")-

See Detail W-

about ¢ truss