

-Horizontal

<u>€</u> 3<sub>8</sub>″ ¢ holes in angles for

Two stainless steel washers and hot dip galvanized steel

U-bolt and angle connections

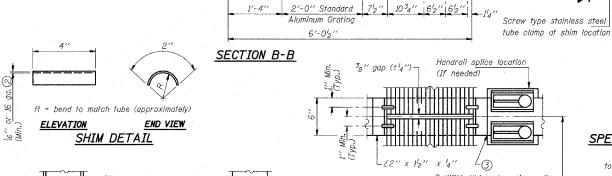
DETAIL T

(Continuous Truss grating)

required at horizontals only.

nuts required per bolt.

516" \$ stainless steel u-bolts.



See Detail W-

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- Detail C

Handrail Hinae

Sheet OS-A-II.

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See Detail É on Base

Light Fixture

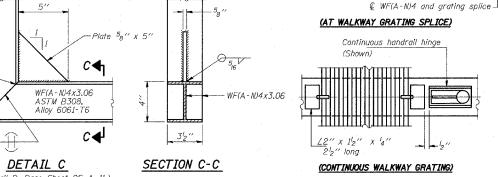
(If required)

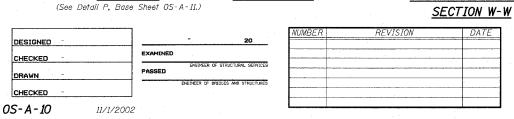
Aluminum Grating

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

Truss grating

See Detail T and Detail T'





## SPECIFICATIONS FOR STANDARD ALUMINUM GRATING

steel flat washers.

See "Shim Detail".

- L2" x 15" x 4" (Tvp.)

Main Bearing Bars shall be  $^3{\rm l6}^{\prime\prime}$  x  $1^{\rm l}_{\rm 2}^{\prime\prime}$  on  $1^3{\rm l6}^{\prime\prime}$  centers and conform to ASTM B221 Alloy 6061-T6. Cross bars shall be  ${}^3{}_{\!6}$  " x  ${}^{1}_{\!2}$ " on 4" centers and conform to ASTM B221 Alloy 6063-T5 or 6061-T6.

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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  $I_2^{\prime\prime}$ , spaced on  $I_{36}^{3\prime}$  centers. Cross bars shall conform to ASTM B221 Alloy 6063-T5 or T-42

and spaced on 4" centers.

Structure Number	Station	. A	В	С	D
1S016I057R357.72	215+44	6"	4'-0"	4'-6''	9'-0"
1S016I057R357.9	227+29	7''	3'-101/2"	5′-3′′	9'-7/2"
1S016I094R062.8	2204+66	6"	3'-3"	4'-6''	8'-3"
1S016I094R062.2	2242+70	71/2"	2'-101/2"	5′-3′′	8'-71/2"
1S016I094R061.7	2264+34	7''	5'-101/2"	5′-3′′	11'-71/2"
1S016I094R061.2	2290+90	7''	2'-101/2"	5′-3′′	8'-71/2"
1S016I094R060.2	2344+44	71/2"	3'-101/2"	5′-3′′	9'-71/2"
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2- $\angle$  2" x  $1_2$ " x  $\frac{1_4}{4}$ " at each horizontal € 516" \$ bolt (two per angle) I" ±12", spaced to Continuous Truss Gratina miss cross bars (Typ.) 1" Min. (Typ.) Stainless steel shim(s). (2) If needed, place on top of horizontals and horizontal diagonals. Secure with one stainless steel clamp per side. € 516" \$ stainless steel d = outside diameter u-bolt. Two bolts of horizontal required per horizontal. SECTION T-T

- 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.
- $\ensuremath{\mathfrak{J}}$  If Handrall Joint present, weld angle to WF(A-N)4 and  $^l{}_4{}^{\prime\prime}$  extension bars. (See Base Sheet OS-A-11.)
- 4 R 8''  $\times$  2''  $\times$  2'' welded to handrail posts to protect locations that
- 5 Tube to grating gap may vary from 0 to ½" (max.) to align walkway, allow for camber, etc.

ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 94 (DAN RYAN EXPRESSWAY) OVERHEAD SIGN STRUCTURES ALUMINUM WALKWAY DETAILS SCALE: AS NOTED DRAWN BY: AMB DATE: MARCH 18, 2005 CHECKED BY: TB

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No back \

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