## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION WF(A-N)4x1.79 sign support € Truss & Truss Grating --Sign shall be even with the top of the bracket, Walkway or WF(A-N)4x3.06 sign and walkway support but it may extend no more than 6" above the top of the bracket for field adjustments. Grating sym. Minimum elevation for top of WF(A-N)4x3.06 for walkway only $-\mathbb{Q}^{-7}_{16}$ " $\phi$ holes, typ. Dr<u>ili (1</u>) 3<sub>8</sub>" ¢ holes in walkway for 5<sub>16.''</sub> \$\phi\$ bolts, 1'' long, each (4)limit of shim -with stdinless steel flat washers under bolt head and locknut. $\frac{3}{8}$ " $\phi$ stainless steel u-bolts. Provide two stainless steel washers and two hexogon locknuts per bolt. (4 required € WF(A-N)4x3,06per walkway bracket, two top and two bottom). and sign WALKWAY GRATING CONTINUOUS AT WALKWAY GRATING SPLICE Walkway Grating: Galvanized steel, 2'-0'' wide see Detail W. (7) 1'4", typ. -Sign Panel $WF(A-N)4x3.06 \rightarrow$ SECTION W-W Placed symmetrical about & truss See Details on Rase DETAIL W Sheet OSC-A-8, GALVANIZED STEEL WALKWAY GRATING (3)--/ Handraii Hinge See Detail E on Base Sheet OSC-A-8. R = bend to match tube (approximately) See Detail D. ELEVATION END VIEW Light Fixture on Base Sheet (If required) SHIM DETAIL WF(A-N)4x1.79 ① Drilling holes in grating may be done in shop or field, based on and sign Contractor's preference and subject to accurate alignment. Stainless steel shims shall be placed under angles at horizontals and Aluminum angles $2-L2'' \times 1_2'' \times 1_4''$ , typ. horizonal diagonals if needed to compensate for alignment variations and ├<del>-</del> '4'' (± '4'') -gap Aluminum plank, 1'-2" wide differences in horizontal diagonal pipe sizes beyond adjustment provided see Detail T. (7) nt each horizontaí Gratina by angles. Secure with one stainless steel clamp per location, se "Shim SECTION B-B Detail". Thicker shim plates may be used when needed subject to shims performing properly. (two per angle) $\bigcirc$ $\mathbb{R}^{l}$ $^{l}$ 8" $\times$ $^{l}$ 2" $\times$ 2" welded to handrail posts to protect locations that 0 0 0 0 contact grating. Drill $\bigcirc 3_8''$ $\phi$ holes in walkway for $l_{6}^{\prime\prime}$ (or 16 ga.) x $2l_{2}^{\prime\prime}$ x $4^{\prime\prime}$ stainless steel shim adhered to top of $\bigcirc$ 0 5<sub>16</sub> " ∮ bolts, 1" long, each with one WF(A-N)4x3.06 beneath each galvantzed angle, typ. Adhesives for stainless steel flat washer between shims shall be suitable for materials joined and full exposure conditions. bolt head and angle. $\bigcirc$ Galvanized steel L2" x 2" x $^{1}_{4}$ ", $^{3}_{2}$ " long with continuous grating $Q = \frac{3}{8}$ " $\phi$ holes, typ.-Stainless steel shim(s) 2 7" long at grating splice.

© 5<sub>16</sub> " ¢ stainless steer

required per horizontal.

u-bolt. Two bolts

8 R

L2" x 12" x 4", typ.

Station

Stainless steel shim(s),

Structure

Number

DETAIL T

© <sup>3</sup>8″ ¢ holes in angles for <sup>5</sup>16″ ¢

stainless steel washers and hot dip

galvanized steel nuts required per bolt.

U-bolt and angle connections required

6-1-09

stainless steel u-bolts. Two

at horizontals only.

DESIGNED

CHECKED

DRAWN

CHECKED

0SC-A-7S

if needed for alignment. (2)

SECTION T-T

(Truss Grating Splice, Alternate splice details and locations may be used subject to the Engineer's review and approval.

<sup>5</sup>16 '' φ bolts

(four per angle)

ALUMINUM TRUSS GRATING

d = outside diameter

d+5" (#4")

SECTION T-T

8 n

of horizontal

WALKWAY, GRATING, HANDRAIL, AND LIGHT FICTURE ARE NOT REQUIRED

## CANTILEVER SIGN STRUCTURES ALTERNATE WALKWAY DETAILS F.A.I. RT. 55 - SEC. (99-1&2)R-6 WILL COUNTY

REVISION

DATE

McDonough Associates Inc. Engineers / Architects

130 East Randolph Street Chicago, Illinois 60601 (312) 946-8600

SHEET NO.	F.A.I. RTE.	SECTION
SD-22	55	(99-1&2) R-
SHEETS		
	CCD DOAD	DICT NO THE TAKE

TOTAL SHEETS NO. COUNTY WILL 756 326 CONTRACT NO. 60F12 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

(6) Details shown are considered equal alternatives to Aluminum Walkway

7 Perforated or expanded metal grating providing a skid resistant (non-

standard sizes. Cut ends of grating shall be free of burrs or

8 Based on actual sign height, Ds. given on OSC-A-1.

Details and may be substituted by Contractor at no charge in contract

serrated) surface and capable of supporting a 500 pound concentrated

load with a 6'-0" clear span. Walkway and truss grating dimensions

are nominal and may vary (width  $\pm \frac{1}{2}$ ", depth  $\pm \frac{1}{2}$ ") based on available

hazardous projections and coated with zinc-rich primer or equivalent,