STATE OF ILLINOIS Various Routes OVD SIN STR REP & REPL 2005-12 DEPARTMENT OF TRANSPORTATION Various Counties Sheet 56 of 82 14" Minimum gap-Contract Number 44872 r Snap Length as required Length as required **€** Light Suppport 4" sag rail and grating shall span a ~ Eveboli (Approx.) minimum of three brackets 14" \$ Sch. 40 /Typ. on Install standard force-fit end caps or weld ¹₈" end plates with ¹₈" c.f.w. - Eyebolt Chain (3) aluminum pipe \verticals and grind smooth. (All rail ends) ³8" φ holes for ⁵16" φ WF(A-N)4x3.06 bolts. (Drill in field) ASTM B-308, Alloy 6061-T6 Fittings-ASTM B26, Alloy 356-T7 WF(A-N)4x3.06 Gratina tie down -2'-0" grating 1'-4" 2'-0" Aluminum (2) Horizontal handrail member shall be continuous thru fitting. Provide ${}^{7}_{16}$ " ϕ hole in fitting for ${}^{3}_{8}$ " ϕ bolt. Field drill ${}^{7}_{16}$ " ϕ hole in horizontal FRONT ELEVATION SIDE ELEVATION DETAIL F DETAIL G HANDRAIL DETAILS rail member. Provide locknut and two stainless (Showing Safety Chain W/O Sign) steel washers for bolt. (Use 516" eyebolts in Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6. 5₁₆ " \$ bolt round head, hexagon 7₁₆" \$\phi\$ holes on top rail at ends only.) locknut, two stainless steel washers Alloy 6062-T6 -38" gap ±14" (5) 34" 134" 24" or Alloy 6061-T6 2'2" ³g" ϕ hole in angle -∉ Sym. P 38" x 3" x 7" for 516" Ø eyebolt with one nut and stainless steel washer. € 36" \$ hole for pin chain ring 2½" x 1¼" x ¼" L5" long (Each side) (4) € ⁷₁₆" φ holes for ³₈" φ hex head bolts, each with WF(A-N)4x3.06 nut and two stainless steel washers. SECTION F-F SECTION G-G Sian panel LIGHTING FIXTURE MOUNTS (IF REQUIRED) out - out 5 Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent. No back Extension bar SIDE ELEVATION gouge 4" x 2" x 6' ALTERNATE SAFETY CHAIN ATTACHMENT Each side Field drill 3_8 " ϕ hole for ${}^5_{16}$ " ϕ eye-bolt. (At approximately FRONT ELEVATION (With Sign Present) Drill and ream for 38" \$ bolt ELEVATION AT HANDRAIL JOINT (4) Items not shown same as "Side Elevation" of "Handrail Details" with two hexagon locknuts and Details not shown same as "ELEVATION" at right. Vertical member of walkway bracket elevation of upper handrail pipe.) Details not shown same as "FRONT ELEVATION" two stainless steel washers. (No sign interference) © 7₁₆ * \$\phi\$ holes for 3₈ * \$\phi\$ hex 'a'' ¢ ring-grip quick release self-locking P 38" x 3" x 7" 3'-6" of chain required for each location. (Approx.) (3) ⁵₁₆ " \$\phi\$ stainless steel eye-bolts. Provide washer and hexagon locknut. head bolts 122" x 22" x 56 122" x 22" x 516 stainless steel pin Bronze or stainless 14" \$ Sch. 40 Eveboli steel swivel eye snap 2". typ. 3'-10" chain ③ SAFETY CHAIN (Approx.) One required for each end of each walkway. Walkway bracket Bronze or stainless WF(A - N)4x3.06 web 16" stainless steel chain, 6" long, with 16" stainless steel swivel eye snap CANTILEVER SIGN STRUCTURES ⊶ € 38" ø eyebolt hole PLAN steel ring each end HANDRAIL DETAILS 1'-2'2" ALTERNATE SAFETY CHAIN ATTACHMENT DETAIL E HANDRAIL HINGE ALUMINUM TRUSS & STEEL POST Details not shown similar to "Safety Chain" Details SECTION P-P (Walkway omitted for clarity) NUMBER REVISION DATE 3 36" galvanized steel chain, approximately 12 links per foot. DESIGNED -Chain to be hot dip galvanized after manufacture and suitable EXAMINED for prolonged exterior exposure. Alternate materials may be District 4 CHECKED . substituted with the Engineer's approval. PLAN AT HANDRAIL JOINT Truss Repair & Replacement PASSED DRAWN Details not shown same as "PLAN" ENGINEER OF BRIDGES AND STRUCTURES Extrusions may be used in lieu of the details shown, with CHECKED approval of the Engineer.

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