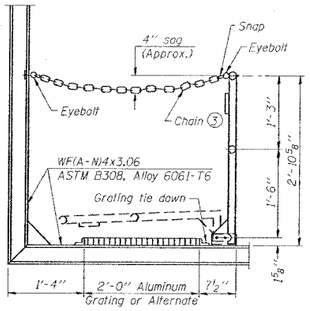
CONTRACT NO. 98950

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| * | ** | WILLIAMSON | 917 | 760 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

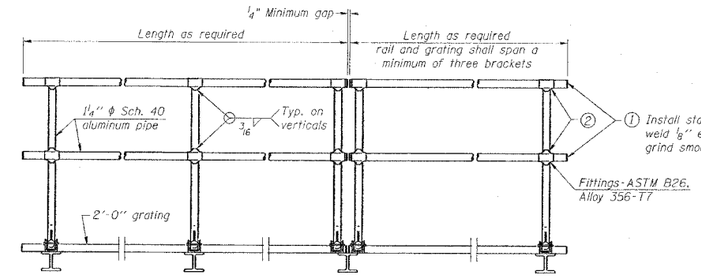
* I-57, & OLD IL 13 (FAU 9629)
** (X1-6-2)VB-2,(X1-6)HBK-2




SIDE ELEVATION
(Showing safety chain w/o sign)

# HANDRAIL DETAILS

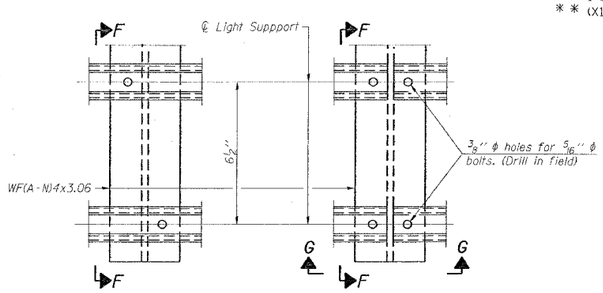
Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6.




FRONT ELEVATION

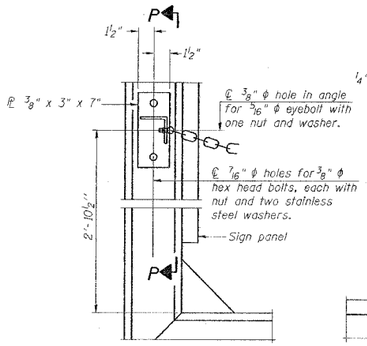
(1) Install standard force-fit end caps or weld 1/8" end plates with 1/8" c.f.w. and grind smooth. (All rail ends)

(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 rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" eyebolts in 7/16" ϕ holes on top rail at ends only.)

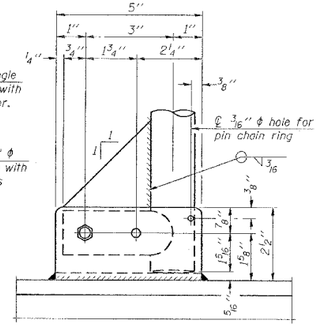



DETAIL F

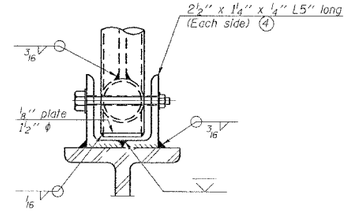
DETAIL G



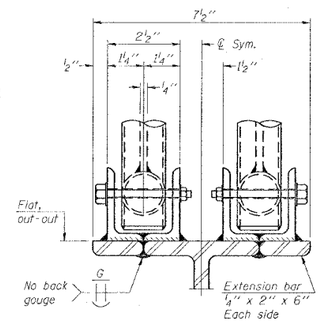

ALTERNATE SAFETY CHAIN ATTACHMENT
(With Sign Present)
Items not shown same as "Side Elevation" of "Handrail Details"



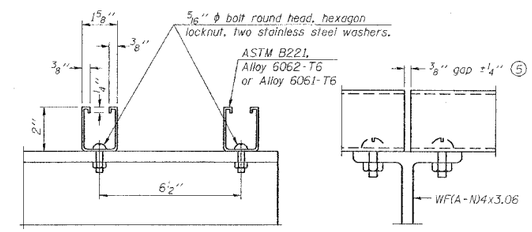

SIDE ELEVATION




FRONT ELEVATION
See "Elevation" at right for dimensions.




ELEVATION AT HANDRAIL JOINT (4)

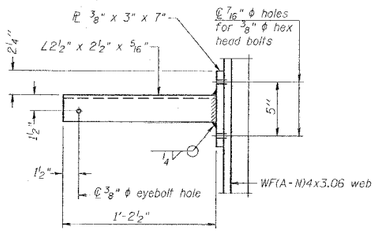



SECTION F-F

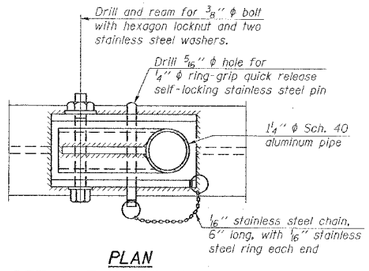
SECTION G-G

LIGHTING FIXTURE MOUNTS (IF REQUIRED)

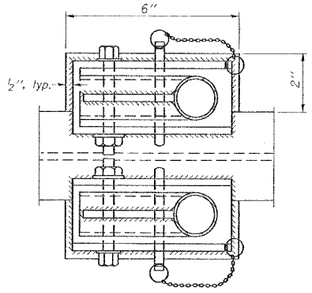
(5) Field cut ends of light support channels shall be free of burrs or hazardous projections and coated with zinc-rich primer or equivalent.



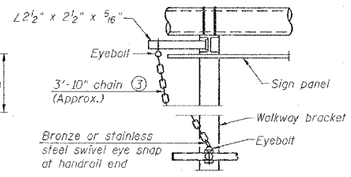

SECTION P-P



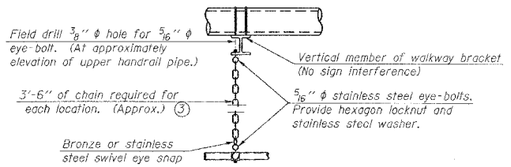

PLAN
DETAIL E HANDRAIL HINGE




PLAN AT HANDRAIL JOINT
Details not shown same as "PLAN"




ALTERNATE SAFETY CHAIN ATTACHMENT
Details not shown similar to "Safety Chain" Details
(Walkway omitted for clarity)




SAFETY CHAIN
One required for each end of each walkway.

(3) 3/16" galvanized steel chain, approximately 12 links per foot. Chain to be hot dip galvanized after manufacture and suitable for prolonged exterior exposure. Alternate materials may be substituted with the Engineer's approval.

(4) Extrusions may be used in lieu of the details shown, with approval of the Engineer.

| NUMBER | REVISION | DATE |
|---|---|---|
| | | |

OS-A-11 1-7-05

| REVISIONS NAME | DATE |
|---|---|
| | |

ILLINOIS DEPARTMENT OF TRANSPORTATION

**OVERHEAD SIGN STRUCTURES**
**ALUMINUM HANDRAIL DETAILS**

SCALE: VERT. NONE HORIZ.
DATE

DRAWN BY CNH
CHECKED BY

PL DATE = 10/12/2006
FILE NAME = c:\projects\r9828902\valid3\valid3d5.dgn
PLOT SCALE = 1.000000 / IN.
USER NAME = headlon