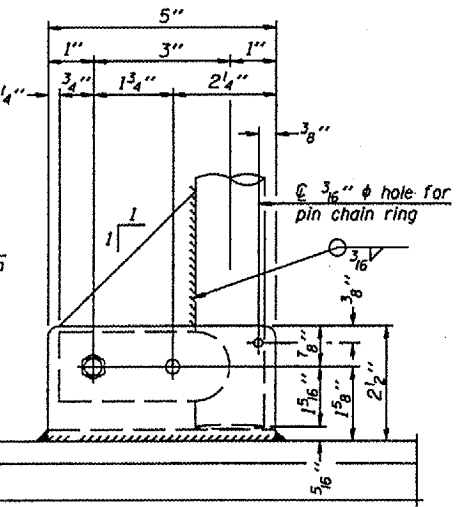
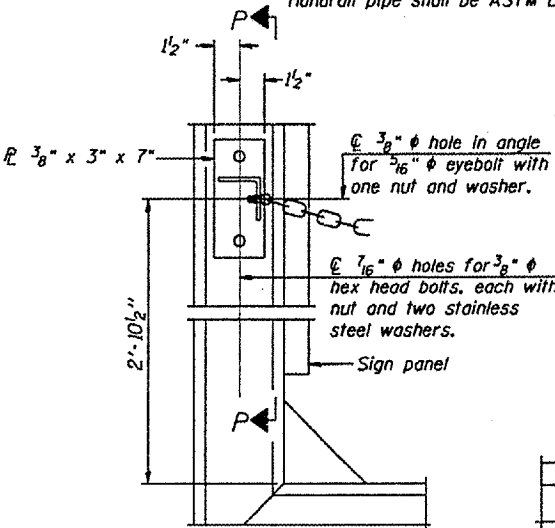


① Install standard force-fit end caps or weld 3/8" end plates with 1/8" c.f.w. and grind smooth. (All rail ends)
Fittings-ASTM B26, Alloy 356-T7 or 1 1/2" φ aluminum pipe

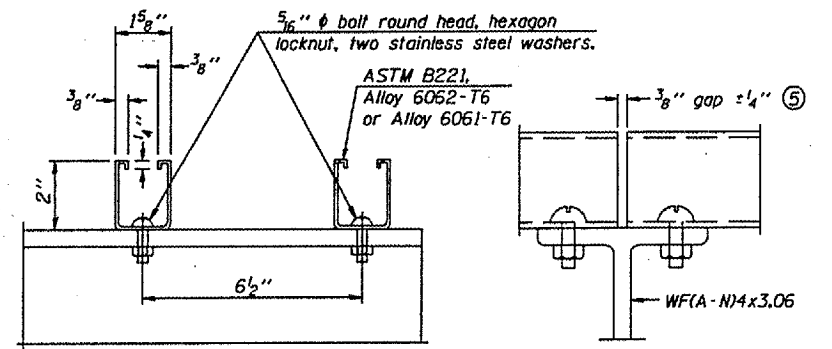
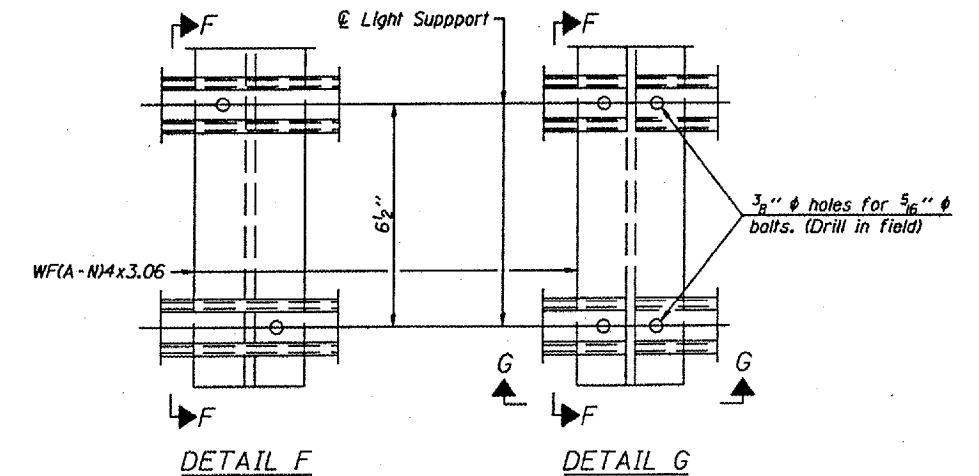
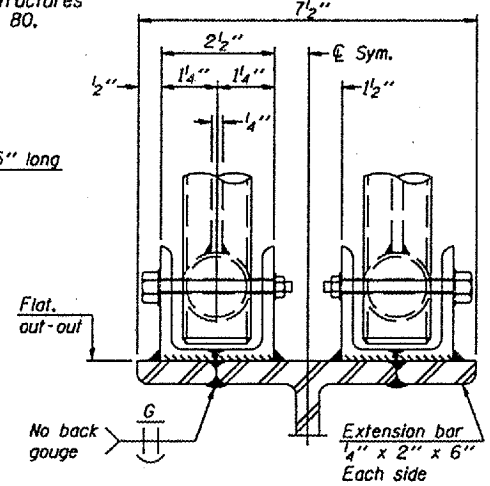
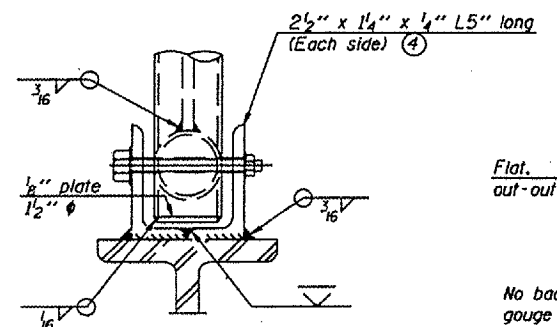
② Horizontal handrail member shall be continuous thru fitting. Provide 1/16" φ hole in fitting for 3/8" φ bolt. Field drill 1/16" φ hole in horizontal rail member. Provide locknut and two stainless steel washers for bolt. (Use 5/16" eyebolts in 1/16" φ holes on top rail at ends only.)

HANDRAIL DETAILS

Handrail pipe shall be ASTM B241 or B429, Alloy 6063-T6 or Alloy 6061-T6.



NOTE: Replacement handrails for Viereendeel Sign Structures shall be fabricated using 1" Round, Schedule 80, Aluminum Pipe.

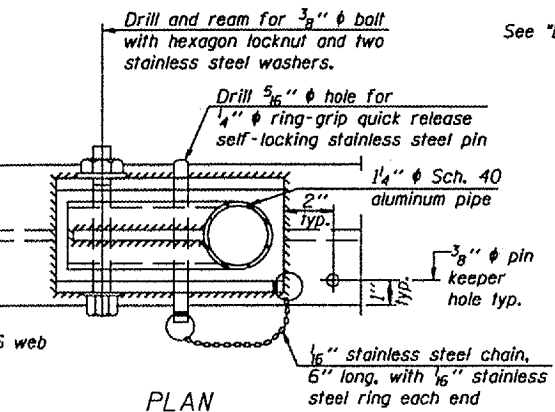
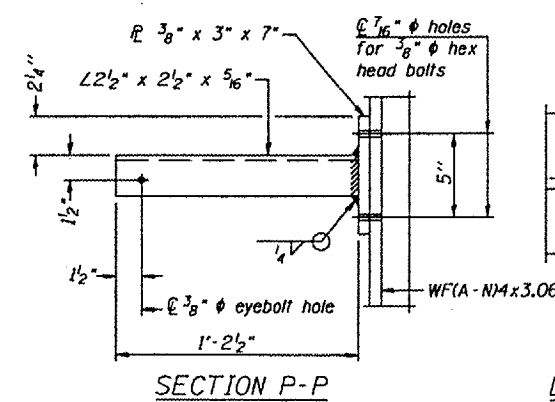


LIGHTING FIXTURE MOUNTS (IF REQUIRED)

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

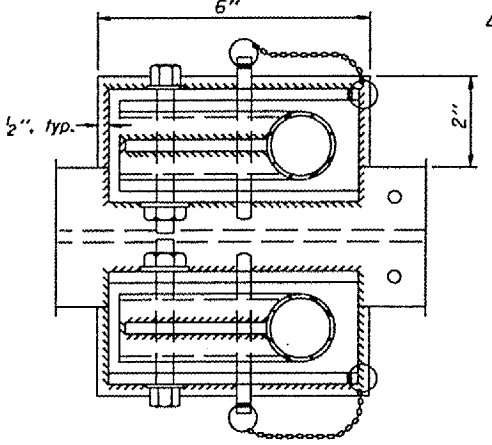
ALTERNATE SAFETY CHAIN ATTACHMENT

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



FRONT ELEVATION

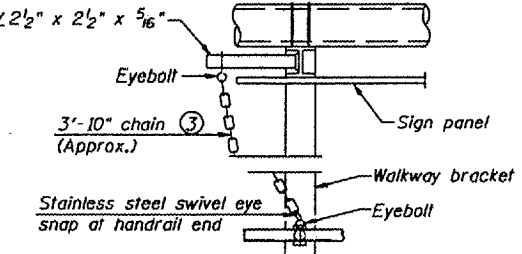
See "Elevation" at right for dimensions.



PLAN AT HANDRAIL JOINT

Details not shown same as "PLAN"

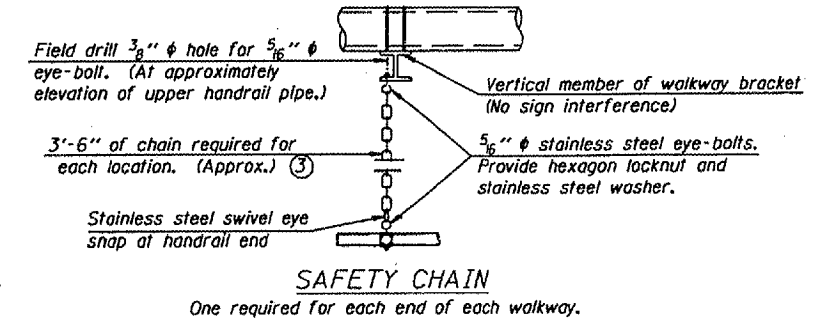
ELEVATION AT HANDRAIL JOINT



ALTERNATE SAFETY CHAIN ATTACHMENT

Details not shown similar to "Safety Chain" Details (Walkway omitted for clarity)

- ③ 3/16" Type 304L stainless steel chain, approximately 12 links per foot.
- ④ Extrusions may be used in lieu of the details shown, with approval of the Engineer.



SAFETY CHAIN

One required for each end of each walkway.

DESIGNED -	20
CHECKED -	EXAMINED
DRAWN -	PASSED
CHECKED -	ENGINEER OF BRIDGES AND STRUCTURES

NUMBER	REVISION	DATE

OVERHEAD SIGN STRUCTURES
ALUMINUM HANDRAIL DETAILS

District 1
Handrail Replacement for
Viereendeel Sign
Structures