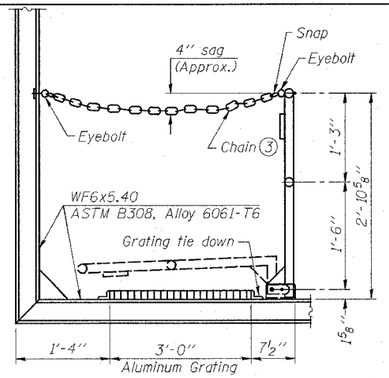
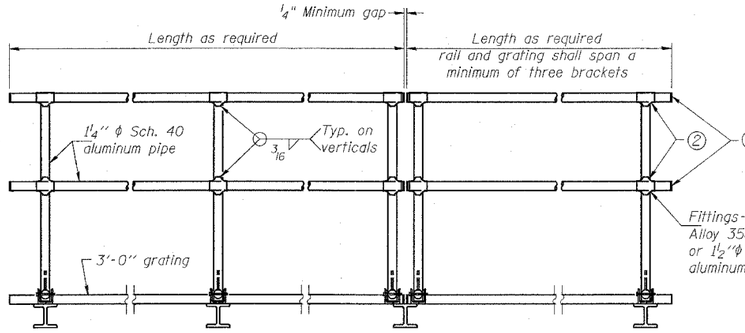
CONTRACT NO. 76A28

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55/70	82-4I-1	ST. CLAIR	19	15
STA. _____	TO STA. _____			
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		



SIDE ELEVATION
(Showing safety chain w/o sign)

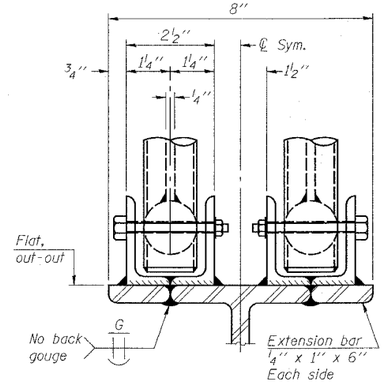
HANDRAIL DETAILS
Handrail pipe shall be ASTM B241, Alloy 6063-T6 or Alloy 6061-T6.



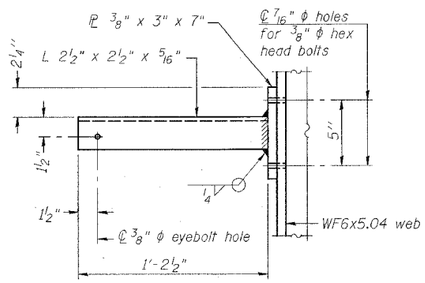
(2) Horizontal handrail member shall be continuous thru fitting. Provide 7/16'' ϕ hole in fitting for 3/8'' ϕ bolt. Field drill 7/16'' ϕ hole in horizontal rail member. Provide washer and locknut for bolt. (Use 5/16'' eyebolts in 7/16'' ϕ holes on top rail at ends only.)

(2) (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)

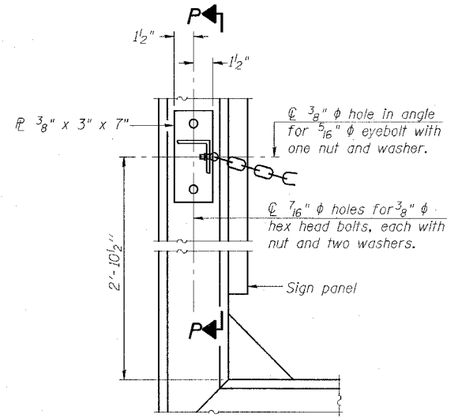
FRONT ELEVATION



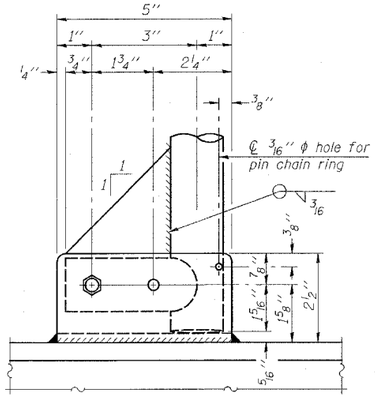
ELEVATION AT HANDRAIL JOINT (4)



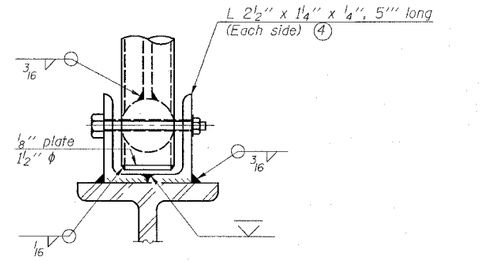
SECTION P-P



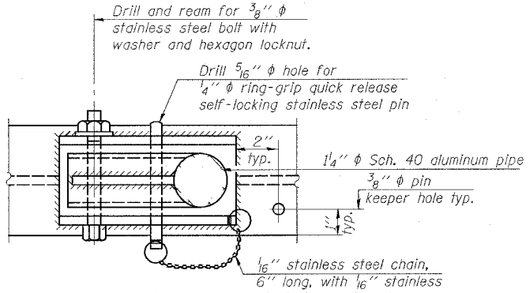
ALTERNATE SAFETY CHAIN ATTACHMENT
(With Sign Present)
Items not shown same as "Side Elevation" of "Handrail Details"



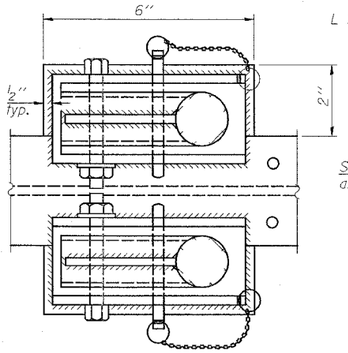
SIDE ELEVATION



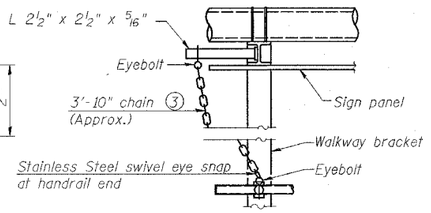
FRONT ELEVATION
See "ELEVATION" at right for dimensions.



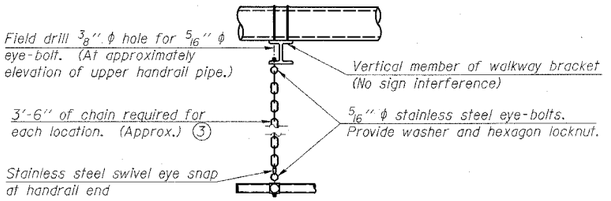
PLAN
DETAIL E HANDRAIL HINGE



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'' 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.

NUMBER	REVISION	DATE

OS-A-11-DMS 7/01/2006

PLOT DATE = &DATE&
FILE NAME = &FILE&
PLOT SCALE = &SCALE&
REFERENCE = &REF&

OVERHEAD SIGN STRUCTURES
ALTERNATE ALUMINUM HANDRAIL DETAILS FOR DMS

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. ROUTE 55/70
SECTION 82-4I-1
ST. CLAIR COUNTY