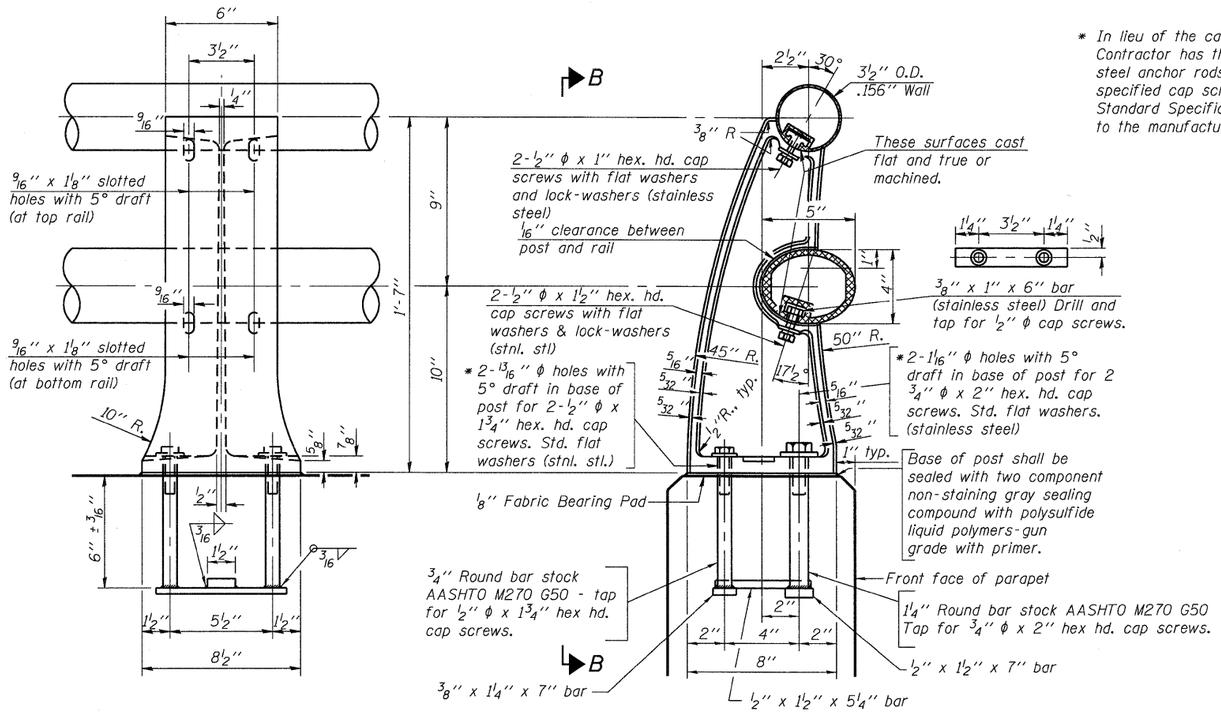
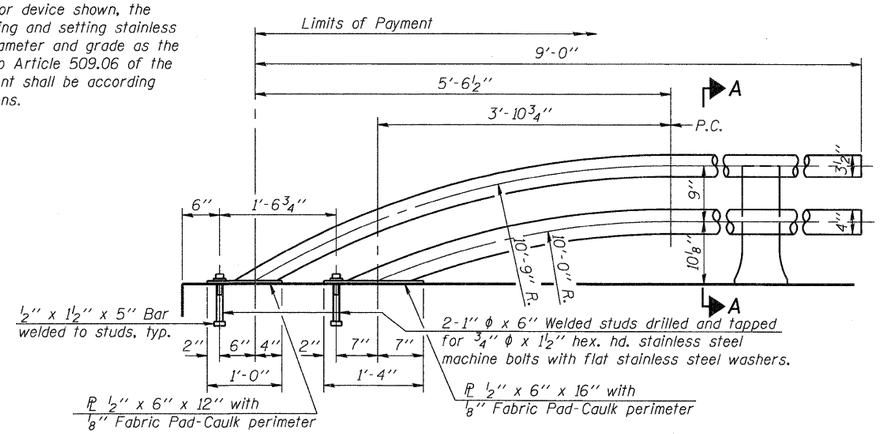
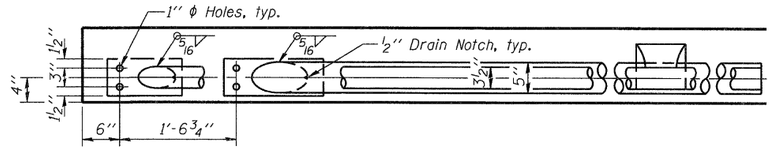
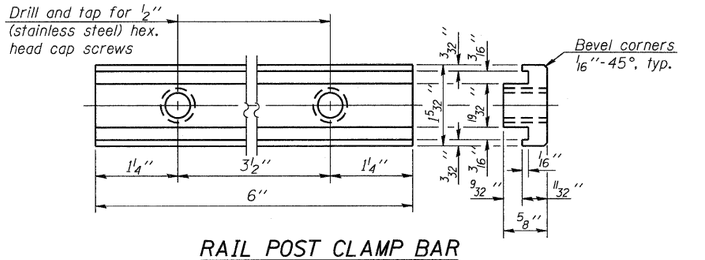


* *In lieu of the cast-in-place anchor device shown, the Contractor has the option of drilling and setting stainless steel anchor rods of the same diameter and grade as the specified cap screws according to Article 509.06 of the Standard Specifications. Embedment shall be according to the manufacturer's specifications.*



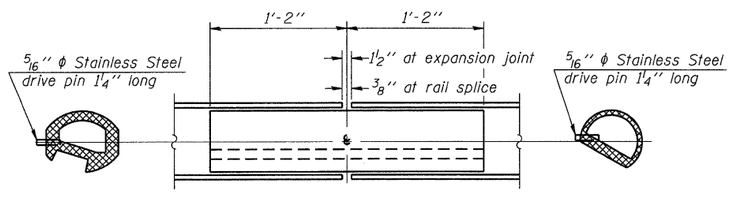


RAIL TERMINAL SECTION

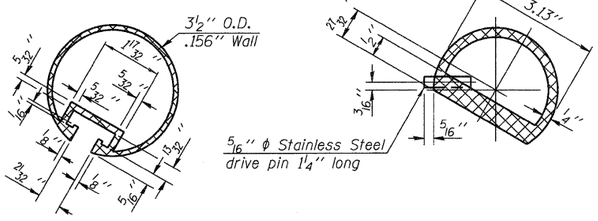


RAIL POST CLAMP BAR

For Top Rail



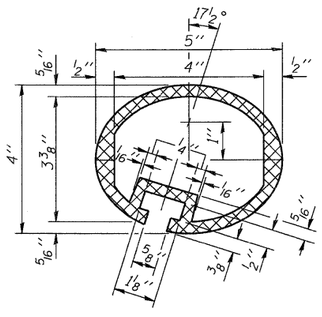
RAIL SPLICE



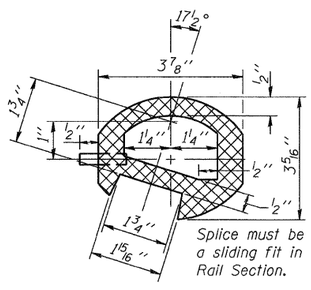
SECTION THRU TOP RAIL

SECTION THRU SPLICE

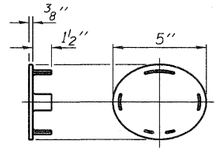
For Top Rail



SEC. THRU ELLIPTICAL RAIL SECTION

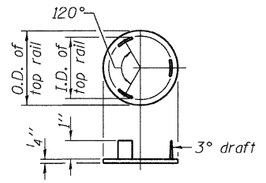


SEC. THRU SPLICE



CAST END CAP

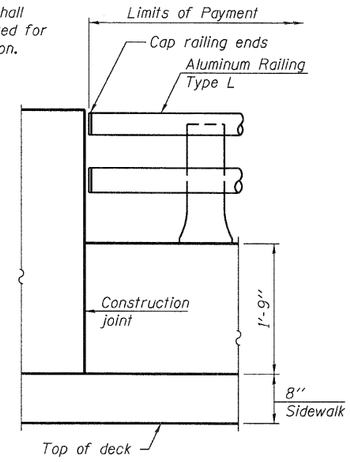
For bottom rail
DRIVE FIT TYPE



CAST END CAP

For top rail

Note:
The end rail post shall be set back as required for the terminal rail section.



RAIL END TREATMENT FOR TYPE 5 AND 6 TERMINAL

Notes:
All Posts shall be normal to parapet.
All joints in rail shall be spliced per detail.
All exposed rail ends shall be capped per detail.
Provide 1-⅛'' and 2-1/16'' Aluminum Shims for 25% of the Posts. Rail elements shall be parallel to Grade-high spots will be ground and low spots shimmed.
See sheets 17 and 20 of 67 for rail post spacing.

BILL OF MATERIAL

Item	Unit	Quantity
Aluminum Railing, Type L	Foot	360

R-20 7-1-10 (7'-0'' to 10'-0'' Post spacing)

McDonough Associates Inc.
Engineers / Architects
130 East Randolph Street Chicago, Illinois 60601

FILE NAME = 0450079-60122-028-Bridge_Rail_Details.dgn	USER NAME = jehrhart	DESIGNED - JDK	REVISED -
		CHECKED - GEK	REVISED -
	PLOT SCALE = 1:0.0833333	DRAWN - JDK	REVISED -
	PLOT DATE = 3/20/2012	CHECKED - GEK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BRIDGE RAIL DETAILS
STRUCTURE NO. 045-0079
SHEET NO. 28 OF 67 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
347	LY (HB & VB)	DUPAGE/KANE	421	194
		CONTRACT NO. 60122		
		ILLINOIS FED. AID PROJECT		