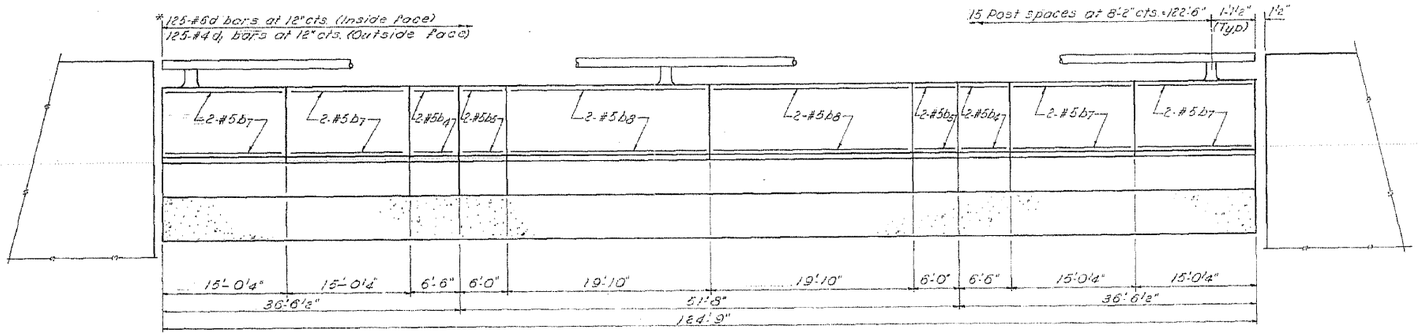
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. RTE. 6	44HB 44.45	JD DAVIESS	376	59
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

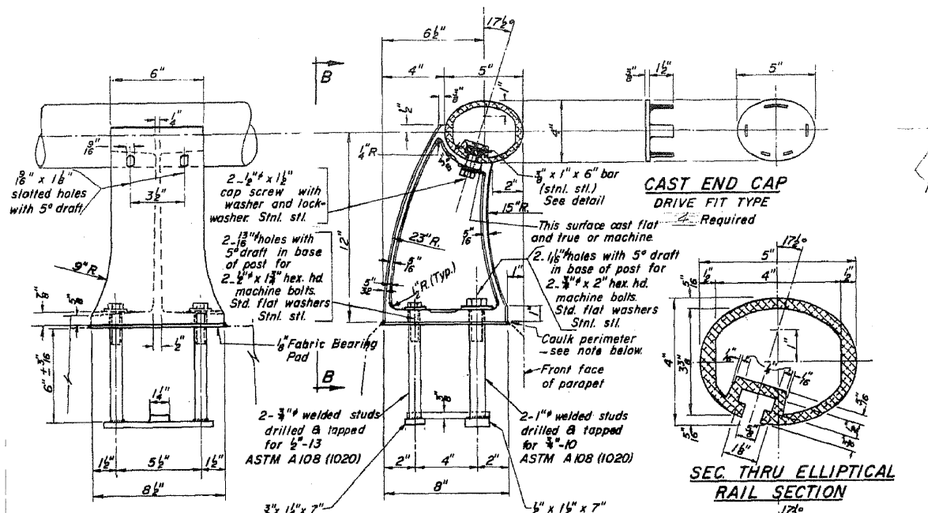
SHEET NO. 4
10 SHEETS

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS



INSIDE VIEW of PARAPET

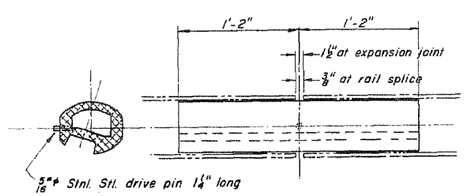
*d#5, bars are billed on sheet No. 3



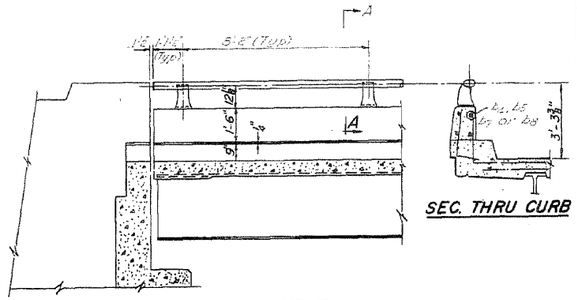
VIEW B-B — SECTION A-A

RAIL POST DETAILS

CAST END CAP
DRIVE FIT TYPE
4 Required

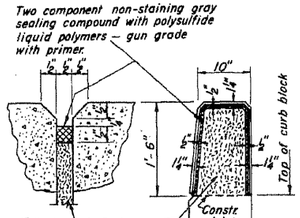


RAIL SPLICE

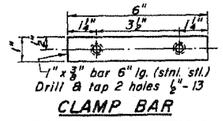


SEC. THRU CURB

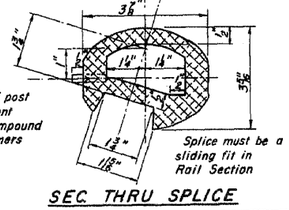
SEC. THRU ELLIPTICAL RAIL SECTION



PARAPET JOINT DETAIL



CLAMP BAR



Splice must be a sliding fit in Rail Section

SEC. THRU SPLICE

NOTES:

All Posts shall be normal to parapet.

All Aluminum Alloy Extruded Rail shall conform to ASTM specification B-221 alloy 6061-T6 and shall be supplied in modular lengths of 30 feet, except at the end of bridge or over open joints in bridge deck where the rail shall be attached to a minimum of 2 posts. If the rail is on a horizontal curve of 2300 foot radius or less, the modular lengths may be reduced but shall be attached to a minimum of 2 posts.

All joints in rail shall be spliced per detail.

See Special Provisions for following Material Specifications:
Cast Aluminum Alloy Bridge Post — Alloy A344-T4.
Stainless Steel Bars, Cap Screws, Washers and Lockwashers.
Fabric Bearing Pad.

METHOD of MEASUREMENT: Aluminum handrail shall be measured in lineal feet. The length paid for shall be the over all length along the top longitudinal railing member thru all posts and gaps.

BASIS of PAYMENT: Aluminum handrail shall be paid for at the contract unit price per lineal foot for ALUMINUM HANDRAIL, measured as specified, which price shall be payment in full for all materials, fabrication, transportation, and erection.

Cost of rail splice, end caps, and hardware to be incidental to item ALUMINUM HANDRAIL.

Provide 1-⅛" and 2-1/16" Aluminum Shims for 25% of the Posts. Rail element shall be parallel to Grade — high spots shall be ground, and low spots shimmed.

INSIDE VIEW AT ABUTMENT

PARAPETS & RAILS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
b4	16	#5	6'-3"	—
b5	16	#5	5'-9"	—
b7	32	#5	14'-9"	—
b8	16	#5	19'-6"	—
Class X Concrete		Cu. Yds.	16.7	
Reinforcement Bars		Lbs	1020	
Aluminum Handrail		Lin. Ft.	250	

ALUMINUM HANDRAIL
FA 6 (S.B.I. RT 5) SEC. 45
JO DAVIESS COUNTY
STATION 403+45W

DESIGNED Robert S. Jarrell
CHECKED Gene McConnell
J. Kessler
DRAWN Wm. M. Best
CHECKED Gene McConnell

EXAMINED JAN. 25 1967
PASSED M. E. Beaumont
APPROVED V. E. Shaffer

Note: Seal perimeter of base of post to parapet with two component non-staining gray sealing compound with polysulfide liquid polymers —gun grade with primer.

R-17 11-18-66

USER NAME = dheberling	DESIGNED - BRD	REVISED -	
FILE NAME = 0430006-64C94Existing-S	CHECKED - CWC/SDS	REVISED -	
PLOT DATE = 12/6/2011	DRAWN - DLH	REVISED -	
PLOT TIME = 10:15:37 AM	CHECKED - BRD	REVISED -	

WHKS & CO. ENGINEERING
7018 KINGSMILL CT., SPRINGFIELD, IL
(217) 483-9457
DESIGN FIRM #184001036

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING PLANS
STRUCTURE NO. 043-0006
SHEET NO. 5 OF 11 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
301	(43B, 44B, 44HB, 45B)D	JO DAVIESS	309	214
		CONTRACT NO. 64C94		
	ILLINOIS	FED. AID PROJECT		