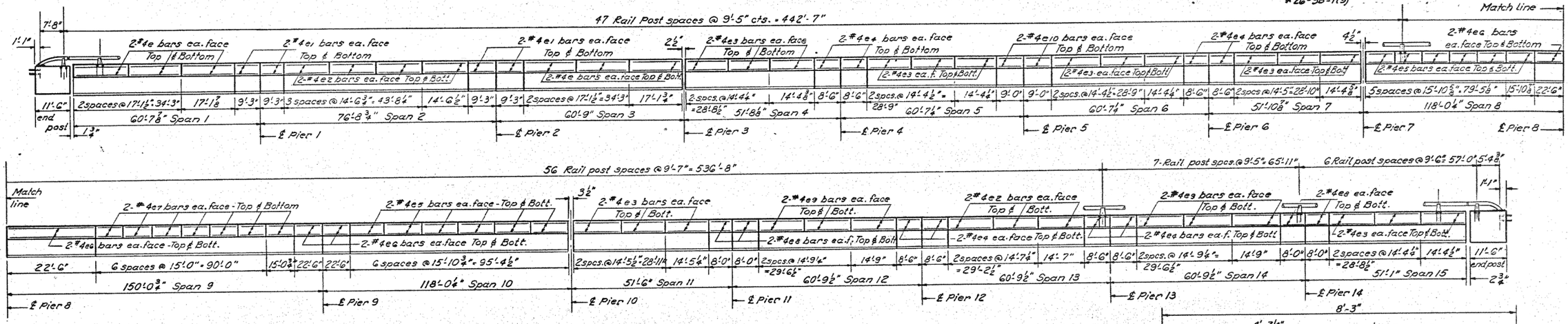
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I-70	#	FAYETTE	60	25
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT:		

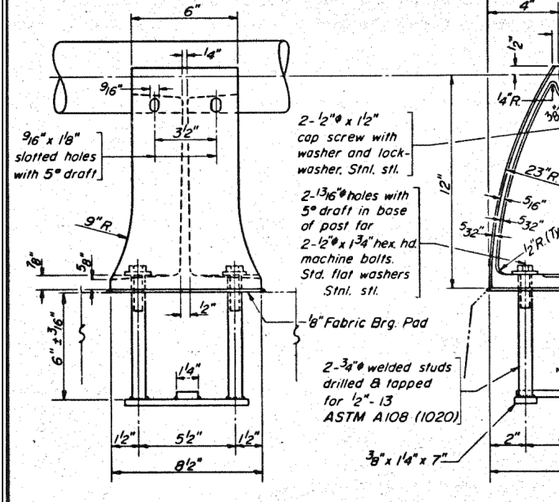
SHEET NO. 13
29 SHEETS
#26-38-1(3)



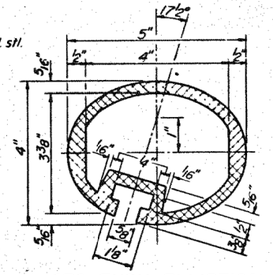
RAIL ELEVATION

DIMENSION "A"

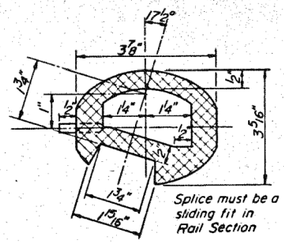
West Abutment	1 3/4"
Pier 3	2 1/2"
Pier 7	4 1/2"
Pier 10	3 1/2"
East Abutment	2 3/4"



RAIL POST DETAILS

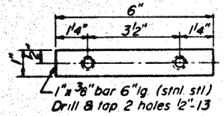


SEC. THRU ELLIPTICAL RAIL SECTION



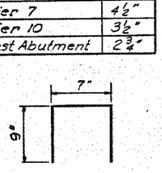
Splice must be a sliding fit in Rail Section

SEC. THRU SPLICE

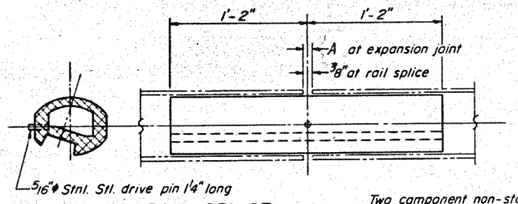


1"x 3/8" bar 6" lg (stnl stl) Drill & tap 2 holes 1/2"-13

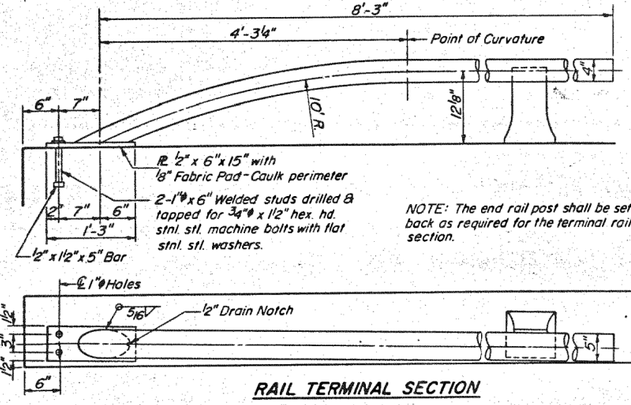
CLAMP BAR



BAR d2



RAIL SPLICE

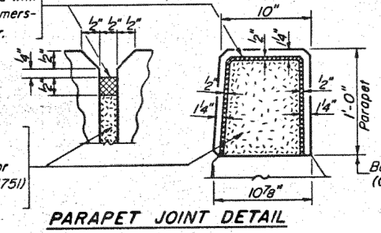


NOTE: The end rail post shall be set back as required for the terminal rail section.

RAIL TERMINAL SECTION

Two component non-staining gray sealing compound with polysulfide liquid polymers-gun grade with primer.

1/2" Preformed Cork Asphalt Joint Filler. (meets qualifications for ASTM: Designation D 1751) Cast incidental.



PARAPET JOINT DETAIL

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
e	48	#4	16'-10"	
e1	32	#4	9'-0"	
e2	56	#4	14'-3"	
e3	120	#4	14'-1"	
e4	64	#4	8'-3"	
e5	48	#4	15'-6"	
e6	32	#4	22'-3"	
e7	56	#4	14'-9"	
e8	32	#4	7'-9"	
e9	48	#4	14'-6"	
e10	16	#4	8'-9"	
d2	468	#4	2'-1"	□
Reinforcement Bars			Lbs.	5640
Class X Concrete			Cu. Yds.	70.7
Aluminum Railing			Lin. Ft.	2231

NOTES:

All Aluminum Alloy Extruded Rail 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.

Provide 1 - 1/8" 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.

Seal perimeter of base of post to parapet with two component non-staining gray sealing compound with polysulfide liquid polymers, gun grade with primer. Fabric Bearing Pad shall have same dimensions as base of post.

Aluminum alloy rail shall conform to ASTM B221 alloy 6061-T6 or 6351-T5 with min. yield 35 ksi, min tensile 38 ksi, and elongation of 10% in 2 inches.

ALUMINUM RAILING
FA.I.RT. 70 SEC. 26-3B-1(3) E.B.L.
FAYETTE COUNTY
STA. 543A + 92.91

DESIGNED	R.K. Mathur		
CHECKED	James Pence		
DRAWN	Sinan Ustamb		
CHECKED	JP		

EXAMINED — June 20 1972
PASSED — W.E. Baumann, ENGINEER OF DESIGN
APPROVED — Richard H. Gotterman, CHIEF HIGHWAY ENGINEER

R-17 4-22-68 9-18-69 3-3-71

PRINT DRIVER = I_PD_E_B_&_H
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PLOT SCALE = 0.0774179 in/in
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ESCA CORPORATION, INC. CIVIL & STRUCTURAL ENGINEERS

USER NAME = has	DESIGNED - ELH	REVISED -	
ESCA PROJECT NO. 1000.05	DRAWN - HAS	REVISED -	
PLOT SCALE = 0.1667 ' / IN.	CHECKED - RDP	REVISED -	
PLOT DATE = 1/29/2014 2:14:36 PM	DATE - 08/13	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE NO. 026-0085 EXISTING BRIDGE PLANS
EB - FOR INFORMATION ONLY

SCALE: | SHEET NO. 7 OF 23 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
70	(26-3B-1, 3B-1(3))BR	FAYETTE	277	228
		CONTRACT NO. 74175		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		