



Contract	#	70101
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ROUTE NO.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.	SHE	ET NO.
F.A.P. 753	142 BR-4	SANGAMON		24	24	11	SHEETS
FED. ROAD DIST	NO. 7	ILLINOIS	FED. ALD PR	DJECT-			

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars. Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Where fy = Yield strength of lapped reinforcement bars in ksi.

#10 #11

BAR SPLICER ASSEMBLIES			
Splicer Rod or Dowel Bar Length	Strength Requirements		
	Min. Capacity kips - tension	Min. Pull-Out Strength kips – tension	
1'-8''	14.7	7.9	
2'-0''	23.0	12.3	
2'-7''	33.1	17.4	
3′-5′′	45.1	23.8	
4'-6''	58.9	31.3	
5′-9′′	75.0	39.6	
7'- 3''	95.0	50.3	
9'-0''	117.4	61.8	

Bar Size	No. Assemblies Required	Location
#4	207	Superstructure
#8	16	Piers

	•• THIS EXCE	K-Plus Engineering, Ltd. 75 WINGOF FOAD 16 JUNOS DEPARTMENT OF PROFESSIONAL REGULATION FOAD ULLINOS DEPARTMENT OF PROFESSIONAL REGULATION FOAD OF PROFESSIONAL SECURIC PROFESS
REVISIONS	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION
	DATE	BAR SPLICER ASSEMBLY DETAILS
		IL RTE. 104 OVER HORSE CREEK FAP 753 - SECTION 142BR-4
		SANGAMON COUNTY STA 989+90.00 DATE: 08-01-07 SN 084-0176 CHECKED BY: DF