

ROUTE NO.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.	SHEET NO. 13
FAI 74	*	VERMILION		122	81	17 SHEETS
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT-			

★ (10-92-8HB-4)BR

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:

Minimum Capacity (Tension in kips) = 1.25 x fy x A<sub>t</sub>

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 Checked By:
 STD
 Drawn By:
 JMD

 11/02
 File:
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(Tension in Kips) Minimum \*Pull-out Strength = 0.66 x fy x A<sub>t</sub> Where fy = Yield strength of lapped reinforcement bars in ksi. A<sub>t</sub> = Tensile stress area of lapped reinforcement bars. \* = 28 day concrete

BAR SPLICER ASSEMBLIES							
		Strength Requirements					
re to iced	Splicer Rod or Dowel Bar Length	Min. Capacity kips - tension	5				
	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				

	ILLINOIS DEPARTMENT OF TRANSPORTATION BAR SPLICER DETAILS
	FAP ROUTE 840 (IL 49N)
	OVER FAI RTE 74 (I-74)
	SECTION (10-92-8HB-4) BR
REVISIONS NAME DATE	VERMILION COUNTY
	STA. 1160+20.53 (I-74)
	STA. 50+00.00 (IL 49N)
	STRUCTURE NO. 092-0203