

ROUTE NO.	SECTION	COUKTY COOK		TOTAL SHEETS	SHEET NO.	SHEET NO. 22
FAU 1360	0101BR-2			90	70	26 SHEETS
FED. ROAD 0257. NO. 7		ILLINDIS	FED. ADD PROJECT-			

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.

fs<sub>allow</sub>= Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)  $A_F$  = Tensile stress area of lapped reinforcement bars. \* = 28 day concrete

BAR SPLICER ASSEMBLIES Strength Requirements Splicer Rod or Min. Capacity Min. Pull-Out Strength be Spliced Dowel Bar Length kips - tension kips - tension 5.9 1'-8" 14.7 23.0 9.2 2'-0' 33.1 21-71 13.3 45.1 18.0 3'-5" 4'-6" 58.9 23.6 75.0 5'-9" 30.0 38.0 7'. 3'' 95.0 117.4 46.8 9'-0'

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

	Bar Size	No. Assemblies Required	Location			
	#5	120	Abutments			
	#5	4	Abutments			
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			ILLINOIS DEPA	RTMENT O	F TRANSPO	RTATION
<b>rjn</b> group Excellence through Ownership						
		1	FOSTER AVE. C	VER I-94 (	TION 0101B	RESSWAY)

DRAWN BY LCM CHECKED BY BLB DATE: 4/30/2006