

LASALLE COUNTY

			CONTRACT	NO. E	6592
	F.A.I. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
truction Line	412	(50-8VB)1	LASALLE	31	21
	FED. ROAD DIST. NO ILLINOIS				

Foam Plugs	
manaa P-	ļ

Threaded or Coil Splicer Rods (E)

## 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 bors. 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 \*Pull-out Strength = 1.25 x fs<sub>ollow</sub> x A<sub>t</sub>

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<sub>1</sub> = Tensile stress area of lapped reinforcement bars. \* = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES	
		Strength Requirements		
e to ced	Splicer Rod or Dowel Bar Length	Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension	
	1'-8''	14.7	5.9	
	2'-0"	23.0	9.2	
	2'-7"	33.1	13.3	
	3'-5''	45.1	18.0	
	4'-6''	58.9	23.6	
	5'-9''	75.0	30.0	
	7'-3''	95.0	38.0	
	9'-0''	117.4	46.8	

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."

REVISIONS NAME DATE	ILLINOIS DEPARTMENT OF T	RANSPORTATION			
	BAR SPLICERS ASSEMBLY DETAILS				
	F.A.I. 412 OVER BNSF				
	SECTION (50–8VB)I LASALLE COUNTY STA. 758 + 10				
	51A. 750 + 1				
	DATE 06/01/2005	DRAWN BY RLW			