STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E) : Indicates epoxy coating.

Bar splicer assemblies s
125 percent of the yield s
Splicer rods shall be of
All reinforcement bars s
Bar splicer assemblies s
reinforcement bars.
Other systems of similar
shall be based on certified
bar splicer assembly satisf
Minimum Ca
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Minimum *P (Toosion in
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Where fy = Yield stre
fs _{allow} = Allowab
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	BAR SPLIC	ER ASSEMBLI	ES	
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements		
			Min. Pull-Out Strength kips - tension	
#4	1'-8''	14.7	5.9	
#5	2'-0''	23.0	9.2	
#6	2'-7"	33.1	13.3	
#7	3′-5″	45.1	18.0	
#8	4'-6''	58.9	23.6	
#9	5′-9″	75.0	30.0	
#10	7'- 3''	95.0	38.0	
#11	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."



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VAME SCALE DATE TIME

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FED. ROAD DIST. NO.		ILL INDIS	FED. ALD PROJECT-		

SHEET NO. 9 9 SHEETS

NOTES

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

shall be epoxy coated according to the requirements for

design may be submitted to the Engineer for approval. Approval ed test results from an approved testing laboratory that the proposed fies the following requirements:

 $\frac{\partial a \rho a c i t y}{\partial (1 - t + c c)} = 1.25 \times f y \times A_t$ kips)

Pull-out Strength = 1.25 x fs_{allow} x A₁

ength of lapped reinforcement bars in ksi. ble tensile stress in lapped reinforcement bars in ksi (Service Load) stress area of lapped reinforcement bars.

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