## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

## STRUCTURE NO. 010-0280





## 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 assembli
125 percent of the yie
Splicer rods shall be
All reinforcement ba
Bar splicer assembli
reinforcement bars.
Other systems of sin
shall be based on cert
bar splicer assembly s
① Minimum (Tensior
(1 81/8/01
© Minimum (Tension
Where fy = Yield
fs <sub>allow</sub> = Allo
A <sub>t</sub> = Tensik
* <sup>'</sup> = 28 day

BAR SPLICER ASSEMBLIES				
Bar Size to be Spliced	Dowel Bar Lepath	Strength Requirements		
		Min. Capacity kips - tension	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."



ROUTE NO.	SEC7ION	COUNTY		TOTAL SHEETS	SHEET NO.
FAP 836	(119BR) BR	CHAMPAIGN			30
PED. ROAD DIST. ND. 7		ILLINOIS	PED. ALD PROJECT-		
Contra	of # 70	2355			

NOTES

lies shall be of an approved type and shall develop in tension at least ield strength of the lapped reinforcement bars.

be of minimum 60 ksi yield strength, threaded or coiled full length. ars shall be lapped and tied to the splicer rods or dowel bars. lies shall be epoxy coated according to the requirements for

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

m Capacity on in kips) = 1.25 x fy x A<sub>t</sub>

n \*Pull-out Strength = 1.25 x fs<sub>allow</sub> x A<sub>t</sub> on in kips)

strength of lapped reinforcement bars in ksi. lowable tensile stress in lapped reinforcement bars in ksi (Service Load) ile stress area of lapped reinforcement bars.

av concrete

	- Stage Construction Line	
I Construction	Stage II Construction	<b></b>
hreaded or Coil oop Couplers (E)	Threaded or Coil Splicer Rods (E)	Reinforcement Bars
	C	
$\frac{l_2''}{cl}$		

## STANDARD

Bar Size	No. Assemblies Required	Location

BAR SPLICER ASSEMBLY DETAILS F.A.P. RT. 836-SECTION (119BR)BR CHAMPAIGN COUNTY STATION 1015+21.00 STRUCTURE NO. 010-0280

SHEET NO. 19

21 SHEETS