The diameter of this part is the same as the diameter of the bar spliced.



— The diameter of this part is

🖌 equal or larger than the

\_\_\_\_\_ diameter of bar spliced.

WELDED SECTIONS

## BAR SPLICER ASSEMBLY ALTERNATIVES

\*\* Heavy Hex Nuls 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 shall be of an 125 percent of the yield strength of the Splicer rods shall be of minimum 60 All reinforcement bars shall be lapped Bar splicer assemblies shall be epoxy reinforcement bars.

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:

(Tension in kips) (Tension in kips)  $Minimum *Pull-cut Strength = 1.25 \times fs_{allow} \times A_t$  (Tension in kips)Where fy = Yield strength of lapped reinforcement bars in ksi.

	BAR SPLIC	CER ASSEMBLI	ES .			
		Strength Requirements				
	Splicer Rod or Dowel Bar Length		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			
#]]	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."

	Stage_I_Cons
einforcement	Threaded
lars	Loop Co

Bar Size		Assembi Required
4		137
5		12

	POUTE NC.	SECTION	00	UNTY	10 AL SHEETS		SHEET NO.	SHEE	ET NO.	13
	FAP 324	26-VBR	DEKA	ALB -	39	2	22	13	SHEETS	3
	FED. POAD DIS?	. ND. 7	ILLIN0(G	FED. AID PRO	JRC"-			]		
	Contract #64A50									
NOTES										
approved type lapped reinfi ksi yield stren	orcement	bars.					51			
d and tied to i coated accord	the splic	er rod	s or a	lowel b	ars.					

 $S_{1} = 1160$  should be to specified relation of the latent to the latent bars in ksi (Service Load)  $S_{1} = 7$  Ensile stress area of lapped reinforcement bars.  $\ast = 28$  day concrete

nstru	iction			
	- Coil ers (E) 	Threaded or Splicer Rods		
		ANDARD		
lles ,	Location Overlay Overlay		BAR SPLICER ASSEMBLY F.A.P. ROUTE 324 (II SECTION 26 VBR- DEKALB COUNTY STATION 1773+30. STRUCTURE NO. 019-	23) -1 24
		]		CHAMPAIGN, ILLINOIS CHICAGO, ILLINOIS EVANSVILLE, INDIANA NDIANAPOLIS, INDIANA KENOSHA, WISCONSIN NG GREEN, WISCONSIN
		REVISIONS NAME DATE	NOTE: IDENTIFY OF THE INVENTION INF OF THE INVENTION INF OF THE INVENTION   DESTINATION OF THE INVENTION INVENTION INVENTION   DESTINATION OF THE INVENTION INVENTION INVENTION   DESTINATION S.L.D. INVENTION INVENTION   DESTINATION M.W. DATE: E//25   DESTINATION S.L.D. INVENTION E//25   DESTINATION M.W. DATE: E//25   VEX.000 M.M. A A   ACTIVITY DATE: S A	drawing number S-13