COUNTY TOTAL SHEET SHEETS NO.
KANKAKEE 20 16 F.A.P. SECTION
330 (1R-B)I-3

The diameter of this part is equal or larger than the diameter of bar spliced.

is the same as the diameter of the bar spliced. ROLLED THREAD DOWEL BAR

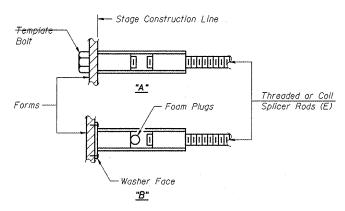
The diameter of this part

\*\* ONE PIECE --- Wire Connector

עועיועין עיועיועין WELDED SECTIONS

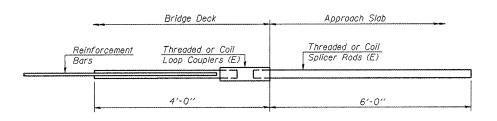
## BAR SPLICER ASSEMBLY ALTERNATIVES

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



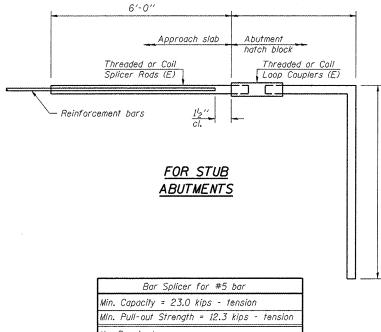
## INSTALLATION AND SETTING METHODS

"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.



## FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bar	Splicer for #5 bar
Min.	Capacity	= 23.0 kips - tension
Min.	Pull-out	Strength = 12.3 kips - tension
No.	Required	=



<u>NOTES</u>

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 fied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for 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:

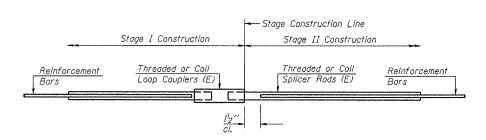
Tension in kips,

Minimum \*Pull-out Strength =  $0.66 \times fy \times A_t$ 

Where fy = Yield strength of lapped reinforcement bars in ksi. A; = Tensile stress area of lapped reinforcement bars.

\* = 28 day concrete

	BAR SPLIC	CER ASSEMBLI	ES	
5 ~		Strength Requirements		
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kips - tension	
#4	1'-8''	14.7	7.9	
#5	2'-0"	23.0	12.3	
#6	2'-7''	33.1	17.4	
#7	3′-5″	45.1	23.8	
#8	4'-6''	58.9	31.3	
#9	5′-9′′	75.0	39.6	
#10	7′-3′′	95.0	50.3	
#11	9'-0''	117.4	61.8	



## STANDARD

Bar Size	No. Assemblies Required	Location
#5	10	DECK
#6	6	ABUTMENT

Quantities shown are calculated for "One" abutment only

ILLINOIS DEPARTMENT OF TRANSPORTATION		REVISIONS	DTATION	
	DATE	NAME	MIAIION	
BAR SPLICER				
ASSEMBLY DETAILS			LS	
***************************************				
FAP 330 (IL 17) SECTION (1R-B)I-3				
KANKAKEE COUNTY			'	
STA. 228+10.95				
SN 046-0039 (EB) & SN 046-0040 (W			-0040 (WE	3)
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11-1-06

SECTION: (1R-B)I-3 FAP ROUTE 330 (IL 17)

KANKAKEE COUNTY