

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 bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars,

(Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi. A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete



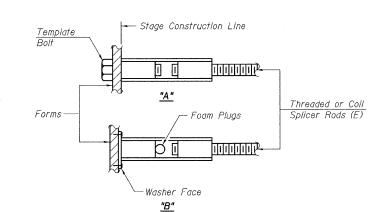
Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

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 Capacity $(Tension in kips) = 1.25 \times fy \times A_t$

Minimum *Pull-out Strength = 0.66 x fy x A_t

BAR SPLICER ASSEMBLIES							
Bar Size to be Spliced		Strength Requirements					
	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				



BAR SPLICER ASSEMBLY ALTERNATIVES

WELDED SECTIONS

ROLLED THREAD DOWEL BAR

** ONE PIECE

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— Wire Connector

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The diameter of this part is

equal or larger than the

diameter of bar spliced.

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

The diameter of this part

of the bar spliced.

is the same as the diameter

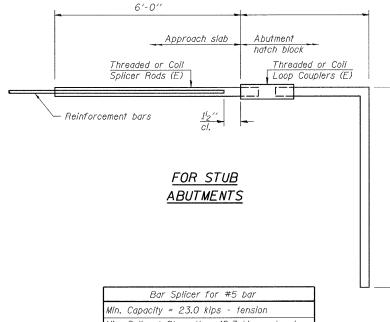
INSTALLATION AND SETTING METHODS

"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.

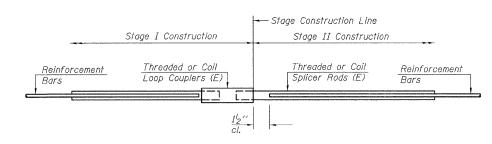
Bridge Deck Approach Slab Threaded or Coil Threaded or Coil Reinforcement Splicer Rods (E) Loop Couplers (E) Bars 4'-0" 6'-0''

FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bar	Spl	icer	for	#5	bar		
Min.	Capacity	= 2	3.0	kips	s - t	ensio	n	
Min.	Pull-out	Stre	ngth	=	12.3	kips	-	tension
No	Required	= 76	 S					



Min. Pull-out Strength = 12.3 kips - tension No. Required = 0



STANDARD

Bar Size	No. Assemblies Required	Location
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200 West Front Street Wheaton, II 60187

ILLINOIS DEPARTMENT OF TRANSPORTATION

BAR SPICER ASSEMBLY DETAILS IL-75 OVER ROCK RUN CREEK FAP RTE 505 - SECTION 111B STEPHENSON COUNTY STATION 10705+38.61 STRUCTURE NO. 089-0084

DATE: 3/03/2009

DRAWN BY CHECKED BY