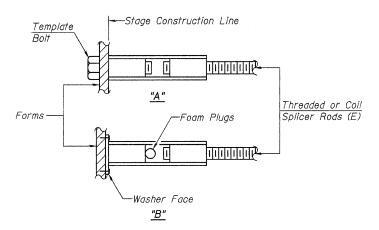
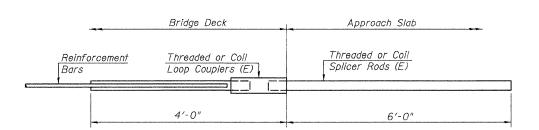


A 563, Grade C, D or DH may be used.



## 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. F	Required	= 48			

## *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.

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

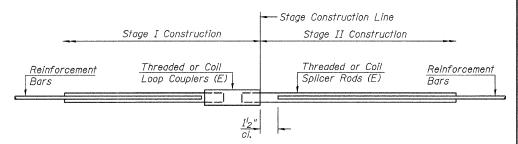
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Minimum Capacity (Tension in kips) = 1.25 x fy x  $A_t$ 

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

BAR SPLICER ASSEMBLIES							
		Strength Requirements					
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension				
#4	1′-8"	14.7	7.9				
#5	2′-2"	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				
# <u>11</u>	9'-0"	117.4	61.8				



## STANDARD

Bar Size	No. Assemblies Required	Location

BAR SPLICER ASSEMBLY DETAILS C.H. 12 OVER HICKS CREEK SECTION 07-00090-00-BR MACOUPIN COUNTY

SHEET NO. 16	ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
3/12E1 1101 10	CH 12	07-00090-00-BR	MACOUPIN	77	26	
19 SHEETS		SN 059-3556	CONTR	CONTRACT NO.93538		
	FED. ROAD DIST. NO. 7   ILLINOIS   FED. AID PROJECT BRS-0732(148)			48)		