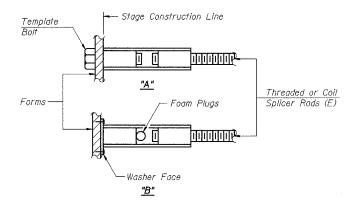


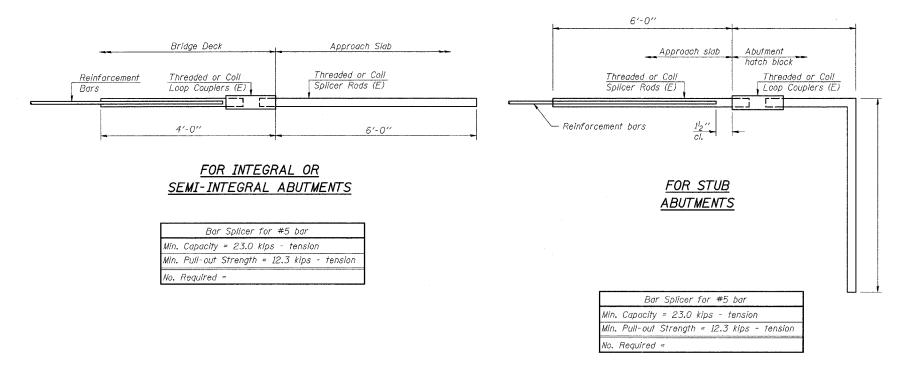
BAR SPLICER ASSEMBLY ALTERNATIVES

** 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.



<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 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:

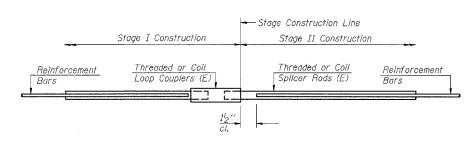
Minimum Capacity (Tension in kips) = 1.25 x fy x A_t

Minimum *Pull-out Strength = $0.66 \times fy \times A_1$

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

* = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES			
		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			



STANDARD

Bar Size	No. Assemblies Required	Location		
#5	16	Deck		
#6	6	Abutments		
	<u> </u>			

BAR SPLICER ASSEMBLY DETAILS IL 26 OVER BUFFALO CREEK FA ROUTE 38 (IL 26) SECTION 4B-2 OGLE COUNTY STRUCTURE NUMBER 071-0069

* Various

BSD-1	11-1-06							** (106BR)M, (4B-2)M & 177-4B-3)M			
FILE NAME =	USER NAME = linkdj	DESIGNED -	REVISED -					F.A.	SECTION	COUNTY	TOTAL SHEET
O:\BR\CADD plans\Various Counties\Contra	ct #64D99 2008 expansion joints\0080028.dgr	DRAWN -	REVISED -	STATE OF ILLINOIS	Bar Splicers		*	**	Various	26 21	
	PLOT SCALE = 50.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				TLLT	NOTS CONTRAC	T NO. 64D99	
	PLOT DATE = Sat Mar 15 11:13:09 2008	DATE -	REVISED -		SCALE: None	SHEET NO. 5 OF 5 SHEETS STA.	TO STA.	FED. ROAD DIST. NO	. ILLINOIS FEE	D. AID PROJECT	