

INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by natling to wood forms or cementing to steel forms.
(E): Indicates epoxy coating.

BAR SPLICER ASSEMBLIES Strength Requirements Bar Size to Min. Capacity Min. Pull-Out Strengti kips - tension kips - tension be Spliced Dowel Bar Length #4 14.7 7.9 12.3 17.4 2'-7" .33.1 #6 #7 45.1 23.8 3'-5" #8 4'-6' 58.9 31.3 5'-9" 75.0 #9 39.6 #10 7'-3" 95.0 50.3 117.4 61.8 #11 9'-0"

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 ksl yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

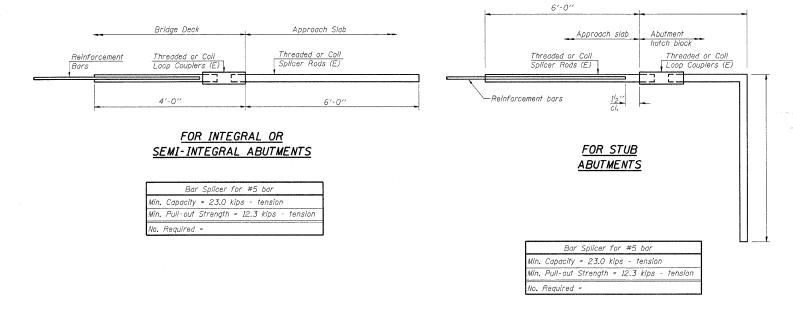
Bar splicer assemblies shall be epoxy coaled according to the requirements for reinforcement bars.

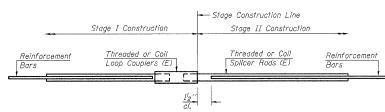
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed

bar splicer assembly satisfies the following requirements:

Minimum Capacity = 1.25 x fy x A_1 (Pension in kips) = 1.25 x fy x A_1 (Pinsion in kips) = 0.66 x fy x A_1 Where fy = Yield strength of lapped reinforcement bars in ksi.

 A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete





STANDARD

Bar Size	No. Assemblies Required	Location			
#6	3	W ABUT			
#7	3	W ABUT			
#7	6	BENT 4			
#7	6	BENT 9			
#5	8	PIER 4			
#6	3	PIER 4			

BAR SPLICER ASSEMBLY DETAILS

BSD-1 11-1-06

WEST ABUTMENT, BENT 4, BENT 9 & PIER 4

FILE NAME =	USER NAME = teasleyck	DESIGNED -	REVISED -		BAR SPLICER ASEMBLY DETAILS			F.A.S SECTION	COUNTY TOTAL SHEET NO.	
c:\projects\74328b\shtdetails_74328.dgn		DRAWN -	REVISED -	STATE OF ILLINOIS				1807 D7 BRIDGE REPAIRS 09-2 LAWRENCE 22 16 CONTRACT NO. 74328		
	PLOT SCALE = 20.0000 '/ IN.	CHECKED ~	REVISED -	DEPARTMENT OF TRANSPORTATION						
	PLOT DATE = 7/11/2008	DATE ~	REVISED -	S	SCALE:	SHEET NO. OF SHEETS STA.	TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. A	AID PROJECT	