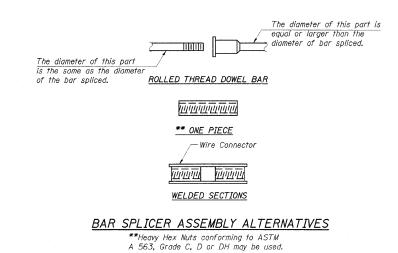
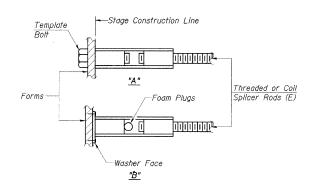
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

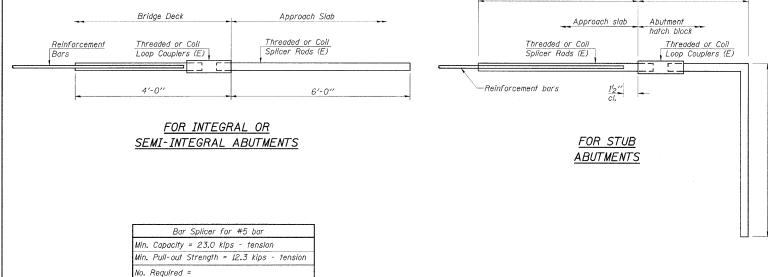




INSTALLATION AND SETTING METHODS

6'-0"

"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.



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

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:

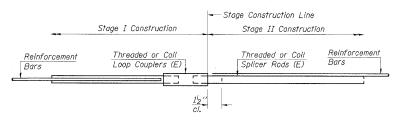
Minimum Capacity
(Tension in kips) = 1.25 x fy x A₁

Minimum *Pull-out Strength
(Tension in kips) = 0.66 x fy x A₂

Where fy = Yield strength of lapped reinforcement bars in ksi.

 A_7 = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

	BAR SPLIC	CER ASSEMBLI	ES .			
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'-2"	23.0	12.3			
#6	#6 2'-7"		17.4			
#7 3′-5′′		45.1	23.8			
#8 4'-6"		58.9	31.3			
#9 5′-9″		75.0	39.6			
#10	#10 7'-3''		50.3			
#11	9'-0''	117.4	61.8			



STANDARD

Bar Size	No. Assemblies Required	Location		
#5	20	Deck		

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 044-0031

BSD-1 1	0-1-08								
FILE NAME =	USER NAME = cornellim	DESIGNED -	REVISED -			DAR CRICER ACCESSIV DETAILS		F.A.I. SECTION COUNTY TOTAL SHEET	
c:\pw_work\PW1DOT\CORNELLLM\dms47925\B	14-0031-bsmart.dgn	DRAWN -	REVISED ~	STATE OF ILLINOIS		BAR SPLICER ASSEMBLY DETAILS		24/57 D9 BSMART FY09-1 JOHNSON/PULASKT 20 19	
	PLOT SCALE = 1.0000 '/ IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		SN 0440031		CONTRACT NO. 78095	
	PLOT DATE = 2/27/2009	DATE -	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. T	O STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	