The diameter of this part is equal or larger than the diameter of bar spliced. The diameter of this part is the same as the diameter

> ** ONE PIECE -Wire Connector

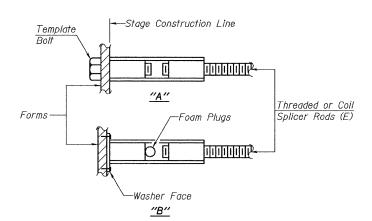
ROLLED THREAD DOWEL BAR

of the bar spliced.

WELDED SECTIONS

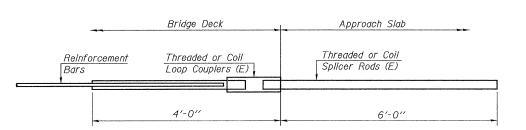
BAR SPLICER ASSEMBLY ALTERNATIVES

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

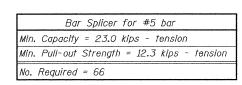


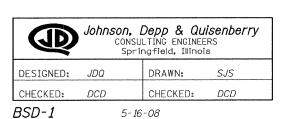
INSTALLATION AND SETTING METHODS

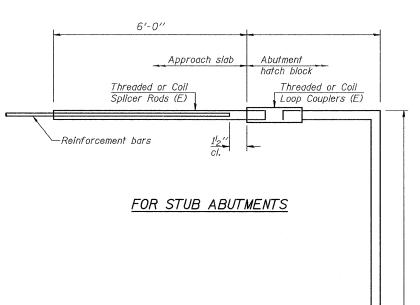
"A" :Set bar splicer assembly by means of a template bolt. "B" :Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



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. Required =

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:

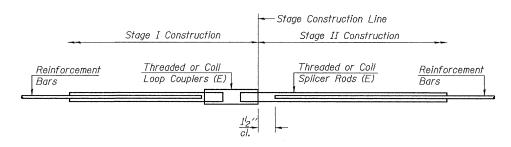
Minimum Capacity = 1.25 x fy x A_t

(Tension in kips) = 1.25 x fy x A_t

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

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

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BAR SPLICER ASSEMBLIES											
5 0	Splicer Rod or Dowel Bar Length	Strength Requirements									
Bar Size to be Spliced		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								
#11	9'-0''	117.4	61.8								



STANDARD

Bar Size	No. Assemblies Required	Location		
#5	409	Deck		
#6	16	Abut. Diaph.		
#8	12	Abutments		
#6	4	Abutments		
#6	16	Piers		
#5	44	Piers		

BAR SPLICER ASSEMBLY DETAILS ILLINOIS 96 OVER FOX CREEK STRUCTURE NO. 007-0028

SHEET 18	F.A.P. RTE.	SECTION		T	COUNTY	TOTAL SHEETS	SHEET NO.	
SINEE! 10	304	5A-BR		T	CALHOUN	60	41	
OF 22	STA. 475+19.62		T	CONTRACT	NO. 7	6886		
	FED. RO	AD DIST. NO.	ILLINOIS	FED.	AID	PROJECT		