68420

#### 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 fied to the splicer rads 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  $A_t$ 

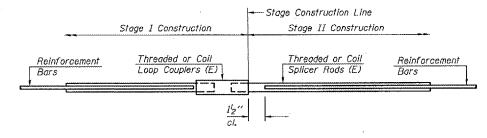
(Tension in kips)
Minimum \*Pull-out Strength = 1.25 x  $fs_{ellow}$  x  $A_f$ 

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

 $fs_{allow}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)  $A_t$  = Tensile stress area of lapped reinforcement bars. \* = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES				
		Strength Requirements					
Bar Size to be Spliced	Dowel Bar Legath	Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension				
#4	1'-8''	14.7	5.9				
#5	2'-0"	23.0	9.2				
#6	2'-7"	33.1	13.3				
#7	3′-5″	45.1	18.0				
#8	4'-6''	58.9	23.6				
#9	5′-9′′	75.0	30.0				
#10	7′-3′′	95.0	38.0				
#11	9'-0''	117.4	46.8				

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



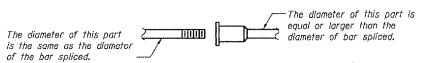
### STANDARD

	Bar Size	No. Assemblies Required	Location
Ì	#5	32	Deck
I	#6	6	Abutment
I		46	
I			

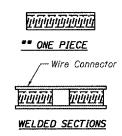
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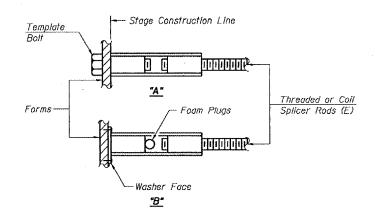


ROLLED THREAD DOWEL BAR



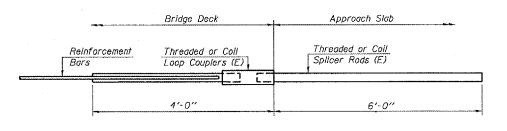
#### BAR SPLICER ASSEMBLY ALTERNATIVES

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



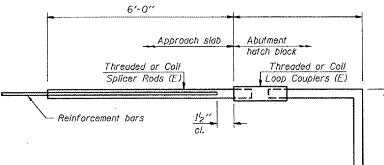
#### INSTALLATION AND SETTING METHODS

"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 = 9.2 kips - te	ension
No. Required =	



# FOR PILE BENT ABUTMENTS

	Bar	Splicer	for	#5	bar bar		
Min.	Capacity	= 23.0	kips	s -	tensi	חכ	
Min.	Pull-out	Strength	=	9.2	kips	-	tension
No.	Required	æ					