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:

(Tension in kips) * 1.25 x fy x A

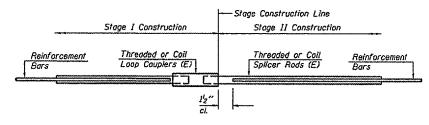
Minimum *Pull-out Strength (Tension in kips) = 1.25 x fs_{clion} x A₁

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

fs_{allow}= Allowable tensile stress in lapped reinforcement bars in ksi (Service Laad) A, = Tensile stress area af lapped reinforcement bars. * = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES		
Bar Size to be Spliced		Strength Requirements			
	Splicer Rod or Dowel Bar Length	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	549″	75.0	30.0		
#10	7′-3′′	95.0	38.0		
#][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."



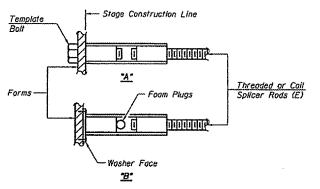
<u>STANDARD</u>

Size	No. Assemblies Required	Location		
#6	4	END DAM		
#5	6	BACK WALL		
#4	8	Approach Pavement		
#5	30	Approach Payement		
#4	24	Approach Povement (Concrete Pad)		
#6	28	Approach Pavement Connector		

BAR SPLICER ASSEMBLY DETAILS

REVISIONS		Ι ,	1 1	NOIS DEPARTM	ENT OF	TRANSPO	TATIO	A.I	
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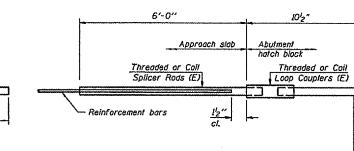
The diameter of this part is equal or larger than the The diameter of this part diameter of bar spliced. is the same as the diameter of the bar spliced. ROLLED THREAD DOWEL BAR



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.

4 - Bar Splicers • 12" cts.



for #6 h(E) bars

FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bridge Deck

4'-0"

Threaded or Coll Loop Couplers (E)

Reinforcement

	Bar	Splicer	For	#5	bar	
Min.	Capacity	» 23.0	kips	-	tension	
Min.	Pull-out	Strength	= 9	3.2	kips -	tension
No.	Required	*				

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

FOR PILE BENT ABUTMENTS

No. Assemblies Location Required BACK WALL

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LASALLE COUNTY

SECTION: (50-6VB)I-2

Approach Slab

6'-0"

Threaded or Coil Splicer Rods (E)

FAI 412 (I-39)