

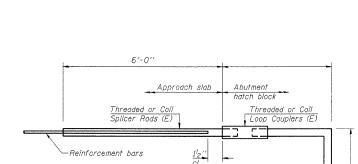
BAR SPLICER ASSEMBLY ALTERNATIVES

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

Bridge Deck

4'-0"

Threaded or Coil Loop Couplers (E)



FOR STUB ABUTMENTS

Stage Construction Line

--Washer Face

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

(E): Indicates epoxy coating.

cementing to steel forms.

-Foam Plugs

Threaded or Coil Splicer Rods (E)

Template Bolt

Forms-

FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Approach Slab

Threaded or Coil Splicer Rods (E)

Min.	Capacity	= 23.0	kips -	tension	
	Pull-out				tension

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

<u>NOTES</u>

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

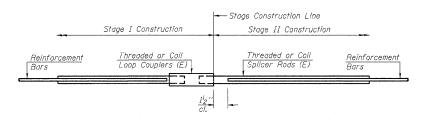
(Tension in kips)

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

A_t = Tensile stress area of 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	7.9					
#5	2'-0"	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
#6	16	051-0016
#5	8	051-0016
#6	16	051-0017
#5	8	051-0017

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO.

SHEET NO. 13

BSD-1

5-16-08

Reinforcement Bars

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