STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



* 1(HB,HB-1,VB,HB-2)R Contract #64814

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.

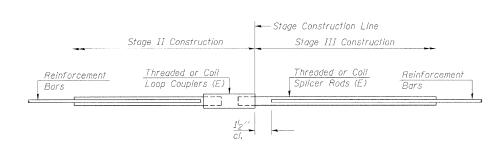
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

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

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

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

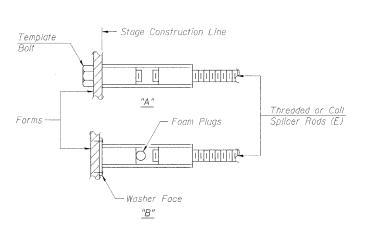
BAR SPLICER ASSEMBLIES				
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements		
			Min, Pull-Out Strength kips - tension	
#4	1'-8''	14.7	7.9	
#5	2'-0''	23.0	12.3	
#6	2'-7''	33.1	17.4	
#7	3′-5′′	45.1	23.8	
#8	4'-6''	58.9	31.3	
#9	5′-9′′	75.0	39.6	
#10	7'-3''	95.0	50,3	
#11	9'-0''	117.4	61.8	



STANDARD

N	o. Assemblies Required	Location
	699	Deck
	6	Deck
	10	Deck
	28	Abut. Backwalls
-	10	Abut. Backwalls

BAR SPLICER ASSEMBLY DETAILS IL ROUTE 92 (CENTENNIAL EXPRESSWAY) OVER IAIS RAILROAD FAP ROUTE 308 SEC. 1(VB)R ROCK ISLAND COUNTY STATION 1507+04.10 STRUCTURE NO. 081-0064



BAR SPLICER ASSEMBLY ALTERNATIVES

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

WELDED SECTIONS

ROLLED THREAD DOWEL BAR

** ONE PIECE

- Wire Connector

The diameter of this part

of the bar spliced.

BSD-1

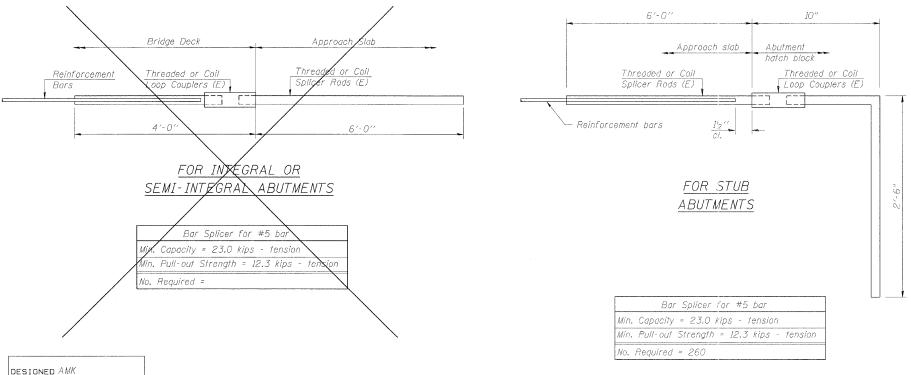
11-1-06

is the same as the diameter

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.



The diameter of this part is

equal or larger than the

diameter of bar spliced.

