STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



Contract #76B20

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.

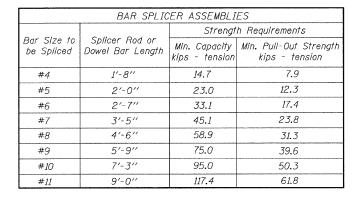
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

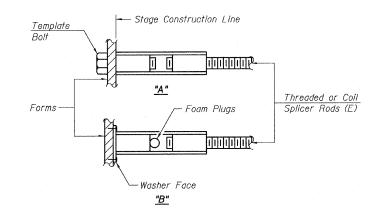
Minimum Capacity (Tension in kips) = 1.25 x fy x A_t

Minimum *Pull-out Strength = $0.66 \times fy \times A_t$

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

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





BAR SPLICER ASSEMBLY ALTERNATIVES

The diameter of this part is

equal or larger than the

diameter of bar spliced.

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

ROLLED THREAD DOWEL BAR

** ONE PIECE

WELDED SECTIONS

The diameter of this part

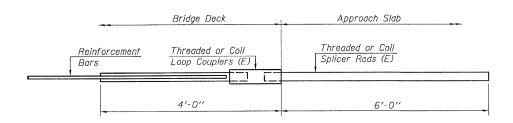
of the bar spliced.

is the same as the diameter

INSTALLATION AND SETTING METHODS

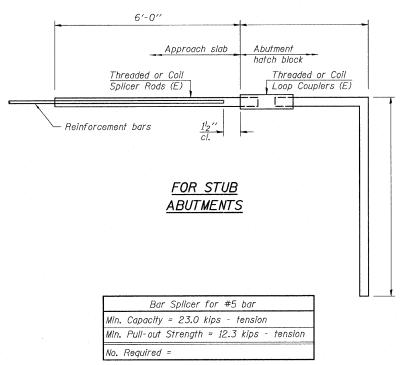
"A": Set bar splicer assembly by means of a template bolt. "B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

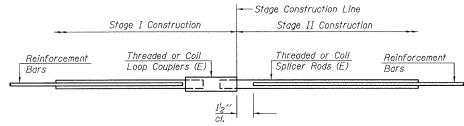
(E): Indicates epoxy coating.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bar	Splicer	for	#5	bar		
Min.	Capacity	= 23.0	kips	- 1	ensio	n	
Min.	Pull-out	Strength	=]	12.3	kips	-	tension
No.	Required	=					





STANDARD

	Bar Size	No. Assemblies Required	Location			
	#4	52	Deck			
	#5	2	N. Abut.			
-						

BAR SPLICER ASSEMBLY DETAILS US ROUTE 67 OVER DEARCY CREEK FAP ROUTE 310 SECTION 57BR-1 JERSEY COUNTY STATION 651+79.77 STRUCTURE NO. 042-0001