STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



SHEET NO. 15 - 18 SHEETS

Contract #64800

Bar splicer assemblies shall be of an approved type and shall develop in tension at least

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

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

125 percent of the yield strength of the lapped reinforcement bars.

bar splicer assembly satisfies the following requirements:

Minimum Capacity (Tension in kips) = $1.25 \times fy \times A_t$

(Lension in App)

Minimum *Pull-out Strength = 0.66 x fy x A_1

Where fy = Yield strength of lapped reinforcement bars in ksi. $A_1 = Tensile$ stress area of lapped reinforcement bars. * = 28 day concrete

reinforcement bars.

The diameter of this part is is the same as the diameter of the bar spliced.

The diameter of this part is equal or larger than the diameter of bar spliced.

ROLLED THREAD DOWEL BAR



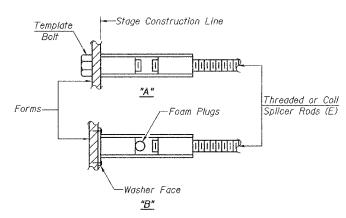
**ONE PIECE



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

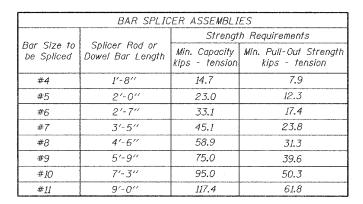
**Heavy Hex Nuts conforming to ASTM A 563. Grade C, D or DH may be used.

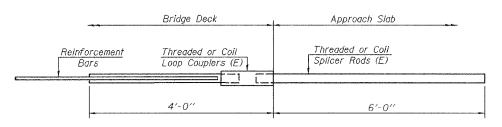


INSTALLATION AND SETTING METHODS

"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.

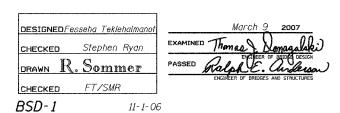
(E): Indicates epoxy coating.

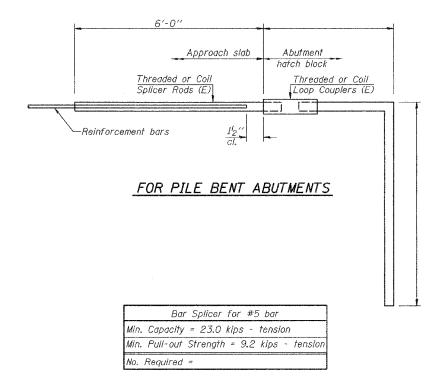


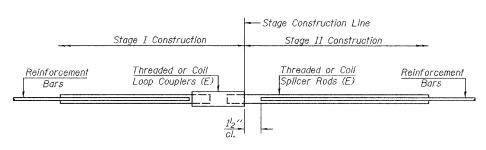


<u>FOR INTEGRAL OR</u> <u>SEMI-INTEGRAL ABUTMENTS</u>

	Bai	Splicer	foi	- #5	5 bar		
Min.	Capacity	= 23.0	kip	s -	tensi	on	
Min.	Pull-out	Strength	=	9.2	kips	-	tension
No.	Required	= 80					







STANDARD

Bar Size	No. Assemblies Required	Location		

BAR SPLICER ASSEMBLY DETAILS

F.A.P. ROUTE 303 - SECTION 130BR-4

BOONE COUNTY

STATION 439+88.00

STRUCTURE NO. 004-0020