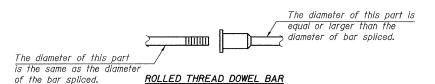
CONTRACT NO. 6660



of the bar spliced.

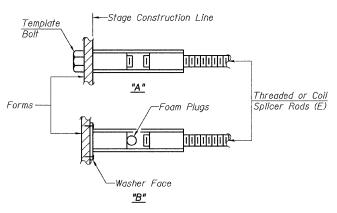
\*\* ONE PIECE

-Wire Connector 

WELDED SECTIONS

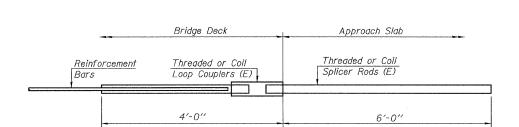
## BAR SPLICER ASSEMBLY ALTERNATIVES

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



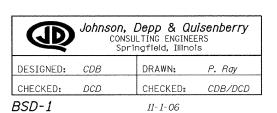
## INSTALLATION AND SETTING METHODS

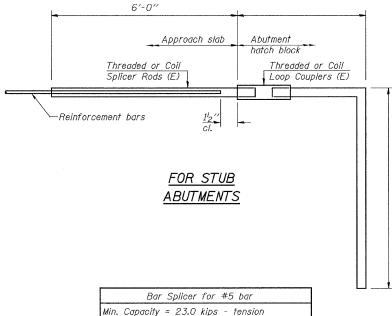
"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nalling to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



## FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar				
Min. Capacity = 23.0 kips - tension				
Min.	Pull-out Strength = 12.3 kips - tension			
No.	Required = 72			





Min. Pull-out Strength = 12.3 kips - tension

No. Required =

Strength Requirements Splicer Rod or Bar Size to Min. Capacity Min. Pull-Out Strength be Spliced Dowel Bar Length kins - tension kips - tension #4 1'-8' 7.9 12.3 #5 2'-0" 23.0 33.1 17.4 #6 2'-7" 23.8 #7 45.1 3'-5" 58.9 #8 4'-6" 31.3 #9 5′-9′′ 75.0 39.6 7'-3" 95.0 50.3 #10 61.8 117.4 #11 9'-0"

BAR SPLICER ASSEMBLIES

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

Minimum \*Pull-out Strength = 0.66 x fy x A<sub>t</sub>

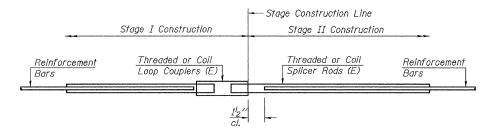
Where fy = Yield strength of lapped reinforcement bars in ksi.  $A_t$  = Tensile stress area of lapped reinforcement bars. \* = 28 day concrete

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

bar splicer assembly satisfies the following requirements: Minimum Capacity =  $1.25 \times fy \times A_t$ 

(Tension in kips)

reinforcement bars.



## STANDARD

	Bar Size	No. Assemblies Required	Location			
	#5	538	Slab			
	#6	16	Abut. Diaphs.			
	#4	12	Pier Diaphs.			
	#6	12	Pier Cap			
	#5	84	Pier Wall			
	#8	12	Abutments			

BAR SPLICER ASSEMBLY DETAILS ILLINOIS 47 OVER NORTH FORK VERMILION RIVER FAP ROUTE 326 SECTION (123)BR-3 LIVINGSTON COUNTY STATION 949+25.00 STRUCTURE NO. 053-0179