

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

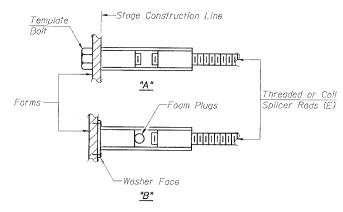
ROLLED THREAD DOWEL BAR

\*\* ONE PIECE -Wire Connector

### BAR SPLICER ASSEMBLY ALTERNATIVES

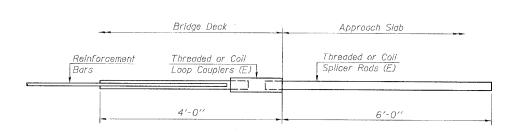
WELDED SECTIONS

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



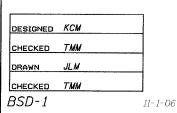
### INSTALLATION AND SETTING METHODS

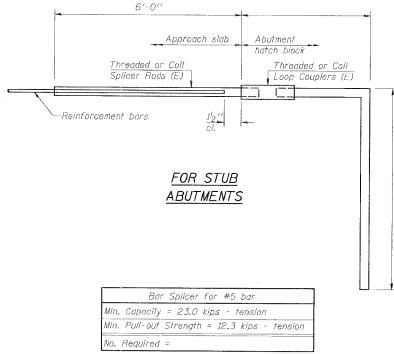
"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



# 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 = 66





11 SHEETS

ROLITE NO.	MICTION	COUNTY		JULY .	SHEET NO.
FAS 203	11BR-1	WHITESIDE & ROCK ISLAND		20	43
FED. ROAD DIST. NO. 3		ILLINOIS	FED. AID PROJECT~		
				CONTRACT	64939

## 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:

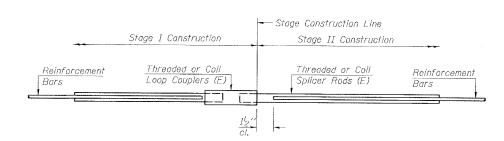
Minimum Capacity =  $1.25 \times fy \times A_t$ 

(Tension iii κίμο) Minimum \*Pull-out Strength = 0.66 x fy x A<sub>t</sub> (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 SPLICER ASSEMBLIES					
Bar Size to be Spliced		Strength Requirements			
	Dowel Bar Length		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
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i		

BAR SPLICER ASSEMBLY DETAILS FAS ROUTE 203 (MOLINE ROAD) OVER MEREDOSIA DITCH SECTION 11BR-1 STA. 428+20.80 WHITESIDE & ROCK ISLAND COUNTIES SN 098-0111