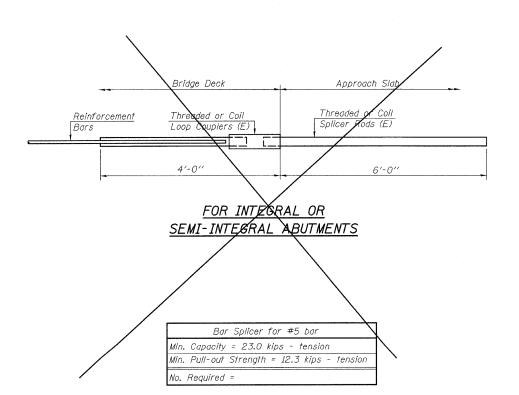
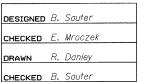


# *ŢijŢijijij* WELDED SECTIONS

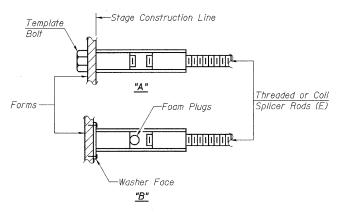
## BAR SPLICER ASSEMBLY ALTERNATIVES

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



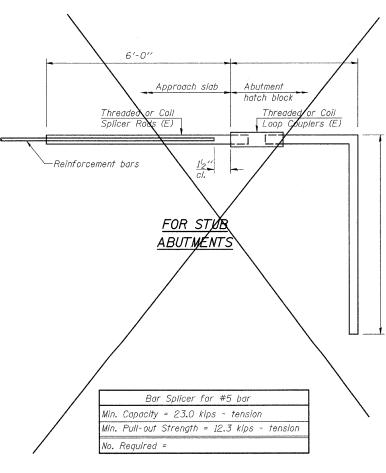






### INSTALLATION AND SETTING METHODS

"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.



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 x fy x A<sub>t</sub>

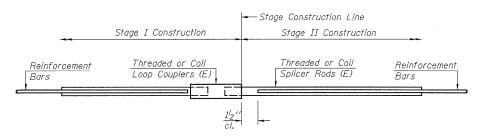
  (Tension in kips) = 1.25 x fy x A<sub>t</sub>

  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

	BAR SPLIC	ER ASSEMBLI	ES			
Bar Size to be Spliced		Strength Requirements				
	Splicer Rod or   Dowel Bar Length		Min. Pull-Out Strength kips - tension			
#4	1'-8''	14.7	7.9			
#5	2'-2"	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

No. Assemblies Required	Location
56	Deck
8	Deck
42	Median
	Required 56 8

### BAR SPLICER DETAILS S.N. 016-0540

SHEET NO.S-24	F.A.U. RTE.	A.U. SECTION		COUNTY	TOTAL	SHEET NO.	
	2697	142 B-1-I		COOK	48	38	
S-27 SHEETS					CONTRACT	NO.	60D89
	FED. RC	AD DIST. NO.	ILLINOIS	FED. AI	D PROJECT		

BSD-1 10-1-08