CONTRACT NO. 62533

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:

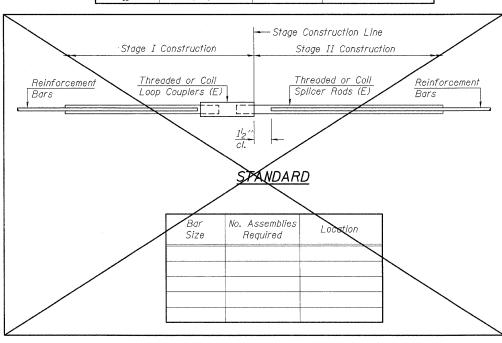
Minimum Capacity = 1.25 x fy x A_t

Minimum *Pull-out Strength = 0.66 x fy x A_t (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 SPLIC	ER ASSEMBLI	ES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements				
			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			



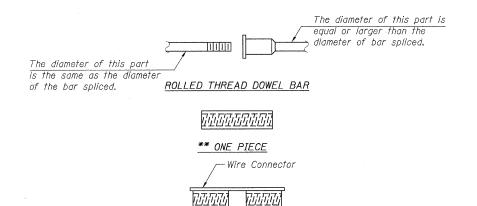
SHT. S-022

ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. ROUTE 57 (INTERSTATE 57) 112TH PLACE BRIDGE DECK REPLACEMENT 112th PLACE OVER I-57 SN 016-0988 STA. 546+15.56 COOK COUNTY

BAR SPLICER ASSEMBLY DETAILS

DRAWN BY: TMH DATE: 01/16/09 CHECKED BY: JLR

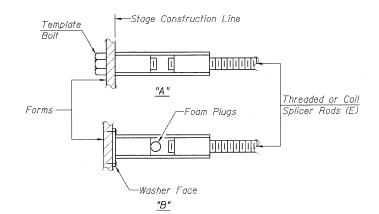
TENG & ASSOCIATES, INC. ENGINEERS/ARCHITECTS/PLANNERS 205 N. MICHIGAN AVE. CHICAGO, IL 60501 TELEPHONE: 312.616.0000 TENG



BAR SPLICER ASSEMBLY ALTERNATIVES

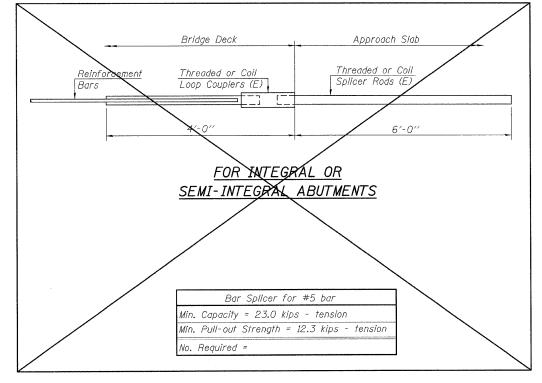
WELDED SECTIONS

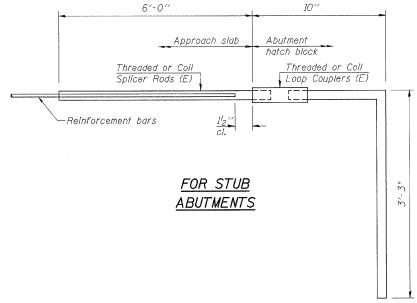
**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



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.





Bar Splicer for #5 bar							
Min. Capacity = 23.0 kips - tension							
Min.	Pull-out	Strength) =	12.3	kips	-	tension
No.	Required	= 134	~~~~				

BSD-1

10-1-08