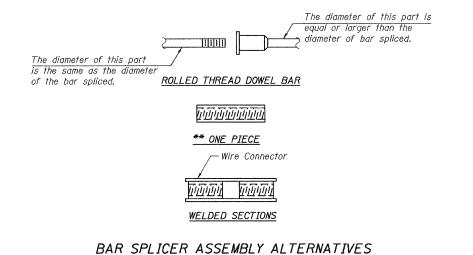
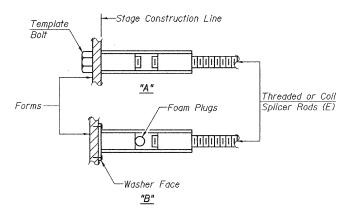
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



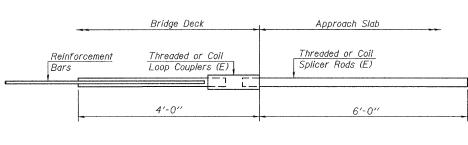
**Heavy Hex Nuts conforming to ASTM

A 563, Grade C, D or DH may be used.

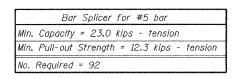


INSTALLATION AND SETTING METHODS

"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.







	1
Rebecca Mitchell	
Mark D. Shaffer	EXAMINED 7
h.t. duong	PASSED 60
RLM/MDS	E
	h.t. duong

10-1-08

6'-0" Approach slab Abutment hatch block Threaded or Coil Threaded or Coll Splicer Rods (E) Loop Couplers (E) Reinforcement bars FOR STUB **ABUTMENTS**

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

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.

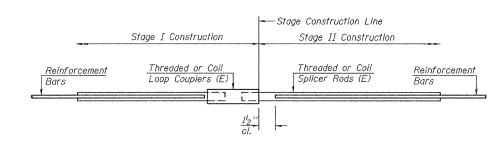
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- Minimum Capacity = 1.25 x fy x A_t

 (Tension in kips) = 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

	4						
BAR SPLICER ASSEMBLIES							
	Splicer Rod or Dowel Bar Length	Strength Requirements					
Bar Size to be Spliced		Min. Capacity kips - tension	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	<i>31.3</i>				
#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

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 039-0070 (E.B.)

SHEET NO. 20	F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.			
	331		(12-B)	Y-1)-1		JACKSON	67	41	
	22 SHEETS						CONTRACT	NO. 98	3641
		FED. RO	DAD DIST.	NO	ILLINOIS	FED.	AID PROJECT		

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