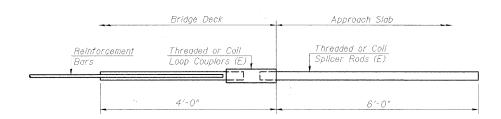


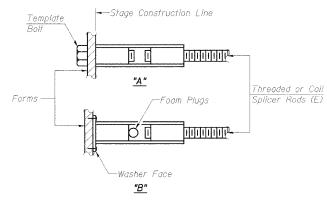
BAR SPLICER ASSEMBLY ALTERNATIVES

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



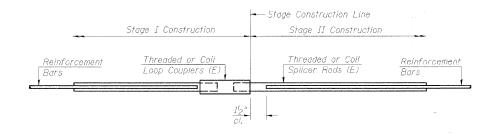
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Min.	Capacity	= 23.0	kips - i	tension	
Min.	Pull-out	Strength	= 12.3	kins -	tension



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.



STANDARD

Bar Size	No. Assemblies Required	Location

<u>NOTES</u>

- 1. 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.
- 2. Splicer rods shall be of minimum 60 ksi yield strength, threaded or colled full length.
- 3. All reinforcement bars shall be lapped and fied to the splicer rods or dowel bars.
- 4. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
- 5. 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

Where fy = Yield strength of lapped reinforcement bars in ksl.

A, = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

	BAR SPLICER ASSEMBLIES					
		Strength Requirements				
	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strengt kips - tension			
#4	1'-8"	14.7	7.9			
#5	#5 2'-2"		12.3			
#6	2'-7"	33.1	17.4 23.8 31.3			
#7	3′-5"	45.1				
#8	4'-6"	58,9				
#9	5′-9"	75.0	39.6			
#10	7′-3"	95.0	50.3 61.8			
#11	9'-0"	117.4				

BAR SPLICER ASSEMBLY DETAILS ELMORE ROAD BRIDGE OVER FRENCH CREEK

AECOM

111 NE Jefferson Ave. Peoria, Illinois 61602 Ph: 309.676.8464 Fax: 309.676.5445 IL Design Firm Reg. No. 184 - 001518 www.aecom.com

HWY	HWY SECTION				COUNTY		TOTAL SHEETS	SHEET NO.
R-15	R-15 08-00092-00-BR				PEORIA	4	32	22
STRUCTURE NO. 072-3147			STATION 7+27					
FFD. RO	AD DIST, NO.	ILL INOIS	FFD.	ATD	PROJECT	BRO	S-0143(049	9)

12/7/2009 3:32:25 PM X:\Projects\200803716\DGN\072-3147.dgn

DESIGNED PJL CHECKED LLV

DRAWN MGM

CHECKED PJL