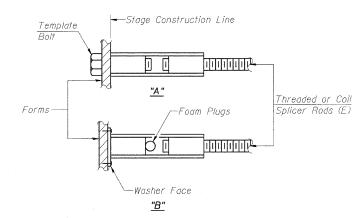


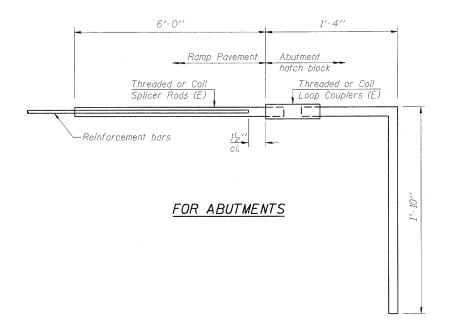
BAR SPLICER ASSEMBLY ALTERNATIVES

**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.



Min.	Capacity	=	23.0	kips	- 1	ension	
	Pull-out						tension

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

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:

reinforcement bars.

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

A_t = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

	BAR SPLIC	CER 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					

Sheet PB-10 of 25

FILE NAME =	USER NAME = bhattb	DESIGNED - DEV	REVISED -		BAR SPLICER ASSEMBLY DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
082-0394_76C47_S10_BAR-01.dgn	İ	DRAWN - MK	REVISED -	STATE OF ILLINOIS		ATRICTURE NO COO COOL		64	82-1-1HBR	ST. CLAIR	93 51
	PLOT SCALE = 0:1 ':" / IN.	CHECKED - ATB	REVISED -	DEPARTMENT OF TRANSPORTATION		STRUCTURE NO. 082-0394				CONTRACT	T NO. 76C47
·	PLOT DATE = 5/1/2009	DATE - 05/01/09	REVISED -		SCALE:	SHEET NO. OF SHEETS STA. TO	STA.	FED. ROAD E	DIST. NO. ILLINOIS FED.	AID PROJECT	