Stage Construction Line

Threaded or Coil Splicer Rods (E)

<u>"A "</u>

-Washer Face

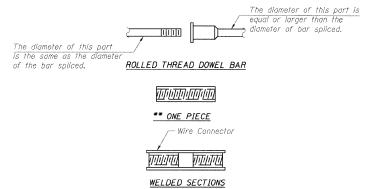
<u>"B"</u>

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.

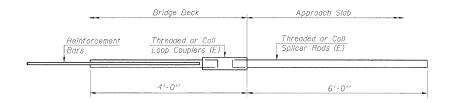
Template Bolt

Forms -



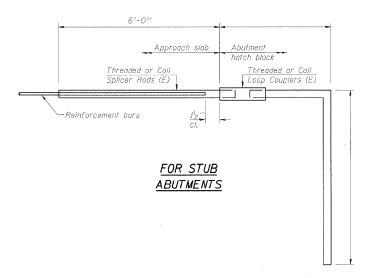
BAR SPLICER ASSEMBLY ALTERNATIVES

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



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bar	Splicer	for :	#5 bar		
Min.	Capacity	= 23.0	kips	- tensi	on	
Min.	Pull-out	Strength	= 12	.3 kips	-	tension



	Вал	r Splicer	for #5	bar	
Min.	Capacity	= 23.0	kips -	tension	
Min.	Pull-out	Strength	1 = 12.3	kips -	tension

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 fest results from an approved testing laboratory that the proposed bar splicer assembly salisfies the following requirements:

Minimum Capacity = 1.25 x fy x A₁

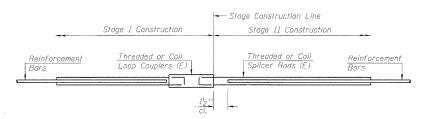
(Tension in kips) = 1.25 x fy x A₁

(Minimum *Pull-out Strength = 0.66 x fy x A₁

(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	FS				
		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

Bar Size	No. Assemblies Required	Location
#5	32	Deck
#6	12	Deck
à.		

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 016-0083

diffed benesch & company
Engineers · Surveyors · Planners
205 North Michigan Avenue, Suite 2400
Chicago, Illinois 60601
312-565-0450 Job No. 10050

HEET NO. 9		F.A.I. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	2	
		290	2009-099 BR		COOK/DUPAGE	309	139	ò	
9	R SHEETS			CONTRACT	NO. 60	0157	2		
		FED. R	ROAD DIST. NO.	ILLINOIS	FED. A	AID PROJECT			

DESIGNED JLS CHECKED RMG DRAWN CHECKED AAY

BSD-1

10-1-08