

The diameter of this part is the same as the diameter of the bar spliced.

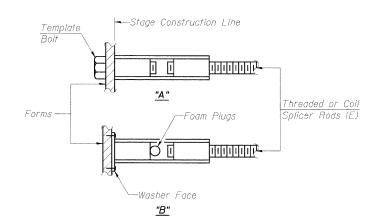
ROLLED THREAD DOWEL BAR

\*\* ONE PIECE - Wire Connector 114714714

## BAR SPLICER ASSEMBLY ALTERNATIVES

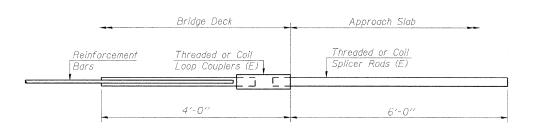
**WELDED SECTIONS** 

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



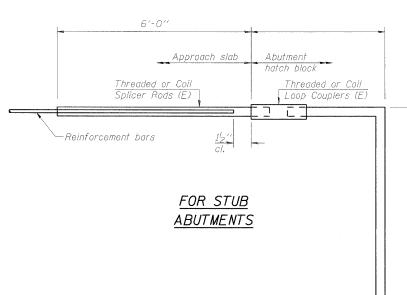
## INSTALLATION AND SETTING METHODS

"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.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bai	Splicer	for #5	bar	
Min.	Capacity	= 23.0	kips - t	ension	
Min.	Pull-out	Strength	= 12.3	kips -	tension
No.	Required	-			



Min.	Capacity	Ξ	23.0	kip	S - :	tensio	n	
Min.	Pull-out	Str	enath	) =	12.3	kips	-	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.

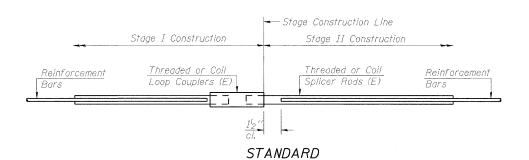
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

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 \*Pull-out Strength = 0.66 x fy x A<sub>1</sub> (Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi.  $\dot{A}_{f}$  = Tensile stress area of lapped reinforcement bars. \* = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES				
		Strength Requirements					
Bar Size to be Spliced			Min. Pull-Out Strengt 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				



54		Вох	Culvert	-	Slabs
8		Вох	Culvert	-	Walls
	-				

BAR SPLICER ASSEMBLY DETAILS PALATINE ROAD OVER McDONALD CREEK SECTION 0913.1-T COOK COUNTY STA. 348+44.50 STRUCTURE NO. 016-7947

SHEET NO. 6	F.A.P. RTE.	SECTION			COUNTY	TOTAL	SHEE NO.
OTTEN TOP O	305	5 0913 <b>.</b> 1-T			COOK	39	31
OF 8 SHEETS		SN 016-7947			CONTRACT	NO. 6	DE53
	FED. RO	DAD DIST. NO. 7	ILLINOIS F	ED. AI	D PROJECT		

Zroka Engineering, P.C. 4216 North Hermitage Chicago, IL 60613

Date: 02-20-09 Drawn By: SW Checked By: HT

**BSD-1** 10-1-08