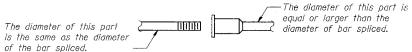
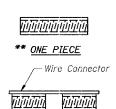


*02-00083-00-BR



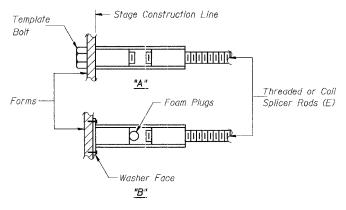
ROLLED THREAD DOWEL BAR



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.

SPLICER DETAIL

Stage I Construction

Reinforcement

Bars

Threaded or Coil

Loop Couplers (E)

Stage Construction Line

Stage II Construction

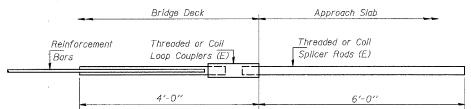
Reinforcement

Bars

Threaded or Coil

Splicer Rods (E)

Bar Size	No. Assemblies Required	Location		



FOR #5 BAR

Min.	. Capacity	=	23.0	kip	s -	tens	ion	
Min.	. Pull-out	St	rengtt) =	9.2	kips	-	tension
No.	Required	=			48			

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 test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Minimum Capacity
(Tension in kips) = 1.25 \times fy \times A_t

(Tension in Kips), Minimum *Pull-out Strength = 1.25 x fs_{allow} x A₁ (Tension in kips)

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

fs_{allow}= Allowable tensile stress in lapped reinforcement bars in ksi (Service Load) A₊ = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES	
		Strength Requirements		
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension	
#5	2'-0''	23.0	9.2	
#6	2'-7"	33.1	13.3	
#7	3'-5"	45.1	18.0	
#8	4'-6''	58.9	23.6	

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

BAR SPLICER ASSEMBLY DETAILS C.H. 12 OVER SOLOMON CREEK FAS ROUTE 732 SEC. 02-00083-00-BR MACOUPIN COUNTY STATION 9+90.00 STRUCTURE NUMBER 059-3465

COOMBE-BLOXDORF P.C.

Engineers / Land Surveyors Springfield, Illinois Design Firm License No. 184-002703 OF 15 SHTS

12

'-0''	6′-0′′	
	-1-	
	<u>INTEGRAL ABUTMENT</u>	
BAR	SPLICER ASSEMBLY DETAIL	

Min.	Capacity	= 23.0	kips -	tension	
Min.	Pull-out	Strength	= 9.2	kips -	tension
No.	Required	=	48		