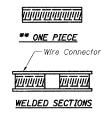
681

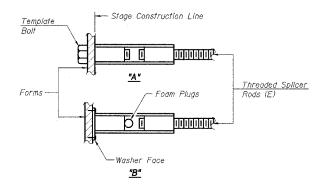
The diameter of this part ----The diameter of this part is Is the same as the diameter equal or larger than the diameter of bar spliced. of the bar spliced.

ROLLED THREAD DOWEL BAR



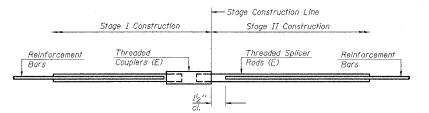
BAR SPLICER ASSEMBLY ALTERNATIVES

** 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.



STANDARD

Bar Size	No. Assemblies Required	Location
#4	115	Deck
#4	4	W. Abut.
#4	4	Pier #1
#4	4	Pier #2
#4	4	E. Abut.

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 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: icer assembly satisfies the following.

Minimum Capacity:

(Tension in kips) = 1.25 x fy x A_t

Minimum *Puli-out Strength = 1.25 x fs_{allow} x A_t

Minimum Frui vo.
 (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)

A₁ = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES	
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements		
			Min. Pull-Out Strength kips - tension	
#4	1'-8''	14.7	5.9	
#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	
#9	5′-9′′	75.0	30.0	
#10	7′-3′′	95.0	38.0	
#11	9'-0''	117.4	46.8	

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."

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION		
NAME	DATE	ILLINOIS DEPARTMENT OF TRANSPORTATION		
		BAR SPLICER ASSEMBLY DETAILS		
		F.A.P. 681 (IL116) OVER FELKY SLOUGH SECTION 113BR-2 LIVINGSTON COUNTY STATION 436+75.00		
		STRUCTURE NO. 053-0075		
	-	DESIGNED BY: JML	DRAWN BY: DJM	
		DATE: 12/09/05	CHECKED BY: MSW	

FARNSWORTH GROUP, INC.