

ROLLED THREAD DOWEL BAR



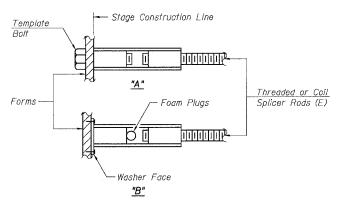
** ONE PIECE

- Wire Connector

WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

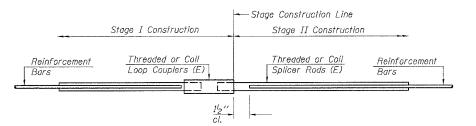
** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



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	153	Deck Overlay	
#5	6	In Blockout	
#5	6	W. Abut.	
#5	6	E. Abut.	

COUNTY TOTAL SHEET NO. 17 JO DAVIESS 50 27 FED. ROAD DIST, NO. 7 BULINGS FED. AID PROJE

20 SHEETS

Contract # 64A48

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 fied 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:

(Tension in Kips)

Minimum *Pull-out Strength = 1.25 x fs_{allow} x A_{t} ② (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)

 $A_t = Tensile$ 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."

BAR SPLICER ASSEMBLY DETAILS

U.S. 20 OVER RUSH CREEK F.A.P. ROUTE 301 - SEC. 24BR-1 JO DAVIESS COUNTY STATION 2023+29.43 S.N. 043-0036

CHECKED CB DRAWN DF CHECKED CB

DESIGNED DF