

The diameter of this part is equal or larger than the The diameter of this part RUIT diameter of bar spliced. is the same as the diameter Rolt of the bar spliced. ROLLED THREAD DOWEL BAR William Charles Forms ** ONE PIECE -Wire Connector nin in in *ilililili*l 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.

reinforcement bars.

(Tension III NDS) Minimum *Pull-out Strength = 1.25 x fs_{allow} x A_t 2 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 Size to be Spliced #4 #5 #6 #7 #8 #9 #10 #11

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."



ROUTE NO.	SECTION	COUNTY		TOTAL SHEETS	ÉHEET NO,	
F.A.P. 669	11BR-1	TAZEWELL		442	2.94	
FED, RGAD DIST. NO. 7		ILLEMOIS	FED ALD PROJECT-			

SHEET NO. 25

32 SHEETS

Contract #88804

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

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 x fy x A_t

BAR SPLICER ASSEMBLIES				
	Strength Requirements			
Splicer Rod or owel Bar Length	Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension		
1'-8''	14.7	5.9		
2'-0''	23.0	9.2		
2'-7''	33.1	13.3		
3'-5''	45.1	18.0		
4'-6''	58.9	23.6		
5'-9''	75.0	30.0		
7'-3''	95.0	38.0		
9'-0''	117.4	46.8		

nstruction	-	Construction Line Stage II Constructi	on	
ed or Coil ouplers (E)		hreaded or Coil plicer Rods (E)	Reinforcement Bars	
$\frac{l_{2}''}{cl}$				

STANDARD

		and made of the state of the st
Bar Size	No. Assemblies Required	Location
#5	391	Deck
#6	16	Diaphragm
#7	20	Abutments
#4	8	Abutments
#7	20	Pier Cap
#4	8	Pier Cap
#5	48	Pier Stem

BAR SPLICER ASSEMBLY DETAILS F.A.P. ROUTE 669 - SEC. 11BR-1 TAZEWELL COUNTY STATION 301+87.90 STRUCTURE NO. 090-0172