

CONTRACT NO. 89361 Sheet 13 of 15

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.

NOTES

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 = 1.25 x fs_{allow} x A_1

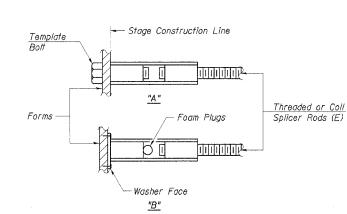
Where fy = Yield strength of lapped reinforcement bars in ksi.

fs_{allow}= Allowable tensile stress in lapped reinforcement bars in ksi.
A_f = Tensile stress area of lapped reinforcement bars in ksi (Service Load)

** = 28 day concrete

	DAD CDLTC	CED ACCEMBLE	·			
	BAR SPLIC	ER ASSEMBLI				
Bar Size to be Spliced	Dowel Bar Lenath	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."



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

(E): Indicates epoxy coating.

cementing to steel forms.

BAR SPLICER ASSEMBLY ALTERNATIVES

WELDED SECTIONS

Wire Connector

The diameter of this part is

equal or larger than the

diameter of bar spliced.

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

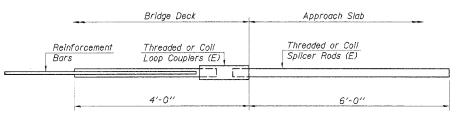
ROLLED THREAD DOWEL BAR

** ONE PIECE

The diameter of this part

of the bar spliced.

is the same as the diameter



	Bar	Splicer	for	#5	bar		
Min.	Capacity	= 23.0	kips	~	tensi	on	
Min.	Pull-out	Strength	= 9	.2	kips	-	tension
No	Required	= 60					

DESIGNED	S.F.M.
CHECKED	P.S.L. & F.J.S.
DRAWN A	(.T.R., J.P.S. & S.A.P.
CHECKED	S.F.M.
BSD-1	9-01-03

STANDARDS\GENERAL\BPLAN.DGN 1:1 7-17-98

FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

BAR SPLICER ASSEMBLY DETAILS

SECTION 03-00027-11-BR COUNTY HIGHWAY 5 TAZEWELL COUNTY STA. 61+32

OZYURT AND STONE, INC. CONSULTING ENGINEERS

JOB NO.: 0313 FILE: SPLICER.DGN