

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."

Stage	Ι	Cor

#10 #11

Reinforcement	Thread		
Bars	Loop (

_	WLW
-	ADL
-	BGJ
-	ADL

11-1-06

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ROUTE NO.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.
F.A.P. 502	54BR-1	ADAMS		28	21
FED. ROAD DIST	. NO. 7	ILLINDIS	FED. AID PRI	OJECT-	

NOTES

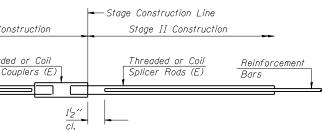
Contract #72873 Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars. Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped 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

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

crete					
BAR SPLICER ASSEMBLIES					
o //	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			



STANDARD

Bar Size	No. Assemblies Required	Location
#4	42	Stage Const Line
#5	2	Stage Const Line

BAR SPLICER ASSEMBLY DETAILS F.A.P 502 ROUTE IL 57 SEC. 54BR-ADAMS COUNTY STATION 114+75.00 STRUCTURE NO. 001-0014

SHEET NO. 7

9 SHEETS