

		CONTRACT	NO.	66614
FAP RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
317	(258-1)[LIVINGSTON	21	10
STA.	472+94.25	TO STA, 474+	79.75	

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.

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:

Where fy = Yield strength of lapped reinforcement bars in ksi. f_{Saltow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load) A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

BAR SPLICER ASSEMBLIES Strenath Requirements Splicer Rod or Splicer Rod or Dowel Bar Length kips - tension kips - tension kips - tension 14.7 5.9 1'-8' 23.0 2'-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 95.0 38.0 7'-3" 117.4 46.8 9'-0"

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bor splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

	Stage	Construction Line	
onstruction		Stage II Construction	n
ded or Coil Couplers (E)		Threaded or Coil Splicer Rods (E)	<u>Reinforcement</u> Bars
<u>1'2''</u>			

STANDARD

	Bar	Splic	cer f	or #:	5 bar	
Min.	Capacity	= 23	3.0 ki	ips -	tension	,
Min.	Pull-out	Stren	igth :	- 9.2	kips -	tension
No.	Required	= -	10			

BAR SPLICER ASSEMBLY DETAILS

REVISIO		ILLINOIS DEPARTMENT OF TRANSPORTATION			
	DATE	BAR SPLICER ASSENBLY DETAILS FAP ROUTE 317 SECTION (25B–1)I LIVINGSTON COUNTY STA. 473 + 87			
		DRAWN BY RW			