

11-1-06

BSD-1

F.A.P. RTE.	SECTION	C	OUNT	r	TOTA SHEE	AL TS	SHEET NO.
726	113B-2	WI	ILLIAMSON		87		85
STA. TO STA.							
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT							
Contract 98777 SHEET 16 OF 18							

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 colled 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:

(Tension in Kips) Minimum *Pull-out Strength = 0.66 x fy x A_t Where fy = Yield strength of lapped reinforcement bars in ksi. A_{f} = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

	BAR SPLICER ASSEMBLIES					
		Strength Requirements				
	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kips - tension			
	1'-8''	14.7	7.9			
	2'-0''	23.0	12.3			
	2'-7''	33.1	17.4			
	3'-5''	45.1	23.8			
	4'-6''	58.9	31.3			
	5′-9′′	75.0	39.6			
	7'-3''	95.0	50.3			
	9'-0''	117.4	61.8			

Construction	Stage III Construction		
readed or Coil op Couplers (E)	Threaded or Coll Splicer Rods (E)	Reinforcement Bars	
<u>1/2</u> " cl.			

STANDARD

Bar Size	No. Assemblies Required	Location
#5	422	Deck
#6	18	Diaphragm
#5	20	Abutments

SPRINGFIELD, IL # AURORA ROCKFORD, IL # PEORIA,

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	REVISIONS NAME DAT	ILLINOIS DEPARTMENT OF TRANSPORTATION		
		BAR SPICER ASS	SEMBLY DETAILS	
	·····	- F.A.P. ROUTE 72		
		- ILLINOIS ROL	ITE 37 OVER	
		LITTLE SAL	.INE CREEK	
		SECTION 113B-2	STA. 531+81.00	
		STR. NO. 100-0091 -	WILLIAMSON COUNTY	
Y & TILLY, INC.		SCALE: NONE	DRAWN BY: GLD	
IL ST. LOUIS, MO		DATE: 12/14/07	CHECKED BY: WLB	