

reinforcement bars.

> 2 (Tension in kips)

Bar Size t be Splicea	
#4	
#5	
#6	
#7	
#8	
#9	
#10	
#11	



11-1-06

THE UPCHURCH GROUP, INC.

BSD-1

PM Pob.1

CONTRACT NO. 70600

ROUTE ND.	SECTION	COUNTY		TOTAL SHEETS	SHEET	SHEET N	٧0.	16
FAP 836	118 BR-2	Champaign		45	27	21 SHE	ETS	
FED. ROAD DIST	. ND. 5	ILLINOIS FED. AID PR		OJECT-				

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: $\begin{array}{c} \text{Minimum Capacity} \\ \text{Minimum Capac$

(lension iii Kipo) Minimum *Pull-out Strength = 0.66 x fy x A_t

Where fy = Yield strength of lapped reinforcement bars in ksi. A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

BAR SPLICER ASSEMBLIES					
		Strength Requirements			
0 1	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		

NAME	DATE	BAR SPLICER	ASSEMBLY DETAILS		
		IL RTE. 49 OVER	LITTLE VERMILION RIVER		
		FAP 836	SECTION 118BR-2		
		CHAMPAIGN COUNTY			
		STA. 688+85	STR. NO. 010-0284		
		SCALE: VERT. HORIZ.	DRAWN BY GEW		
		DATE MAY 2008	CHECKED BY MJS		