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Осмт RAWFORD MURPHY & TILL CONSULTING ENGINEERS SPRINGFIELD, IL # AURORA, IL # ST. ROCKFORD, II # PLORIA, IL # CHI

TOTAL SHEE SHEETS NO. F.A.P. RTE. COUNTY SECTION 869 104B-1 FRANKLIN 56 24 STA. TO STA. FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT Contract #98775 SHEET 7 OF 8 NOTES Bar splicer assemblies shall be of an approved type and shall develop in tension at least 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. A<sub>1</sub> = Tensile stress area of lapped reinforcement bars. \* = 28 day concrete

BAR SPLIC	ER ASSEMBLI	ES			
Splicer Rod or wel Bar Length	Strength Requirements				
	Min. Capacity kips - tension	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			

Bar Size	No. Assemblies Required	Location		
#6(E)	54	Top Slab		
#5(E)	46	Bottom Slab		
#6(E)	36	Culvert Barrel Walls		

	REVISIONS NAME DATE		ILLINOIS DEPARTMENT OF TRANSPORTATION BAR SPICER ASSEMBLY DETAILS				
			ואט	F.A.P. ROUTE ILLINOIS R	869 (IL.	. RTE. 14.	
LY, INC.				TRIBUTARY SECTION 104B R. NO. 028-2016	-1 STA. - FR.	579+10.0 ANKLIN C	OUNTY
LOUIS, MO CAGO, IL		-		NONE 05/08/07		DRAWN BY: CHECKED BY:	020