## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





CHECKED SSM BSD-1

11-1-06

ROUTE NO.	SECTION	COUNTY		TOTAL SHEETS	SMEET NO.
F.A.P, 301 (US 20)	(2HB - DD	WINNEBAGO		107	- 95
FED. ROAD DIST. NO. 7		ILLINGIS	FED. AND PROJECT-		

Contract #64B07

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

#10 #11

Where fy = Yield strength of lapped reinforcement bars in ksi.  $A_{\mu}$  = Tensile stress area of lapped reinforcement bars. \* = 28 day concrete

BAR SPLICER ASSEMBLIES						
	Strength Requirements					
Splicer Rod or owel Bar Length	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 Slze	No. Assemblies Required	Location	

BAR SPLICER ASSEMBLY DETAILS F.A.P. ROUTE 301 (US 20) OVER SIMPSON ROAD SECTION (2HB-1)D WINNEBAGO COUNTY STATION 849+27.97 STRUCTURE NO. 101-0053 (W.B.) STRUCTURE NO. 101-0054 (E.B.)

SHEET NO. 30 34 SHEETS