

BSD-1

PLOT PLOT

			CONTRA	ACT * 6	
F.A.P. RTE.	SECTION	. 0	OUNTY	TOTAL	SHEET NO.
685	٠	M	McDonough		13
STA.		TO	STA.		
FED. RO	ad dist. no.	ILLINOIS	FED. AID	PROJECT	•
	* 04 CULV	ERT REF	PAIR 2007		

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 ksl 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

Minimum "Pull-out Strength = 1.25 x fs_{ation} x A₁ (Tension in kips)

Where fy = Yield strength of lopped reinforcement bars in ksi.

fsallow² Allowable tensile stress in lapped reinforcement bars in ksi (Service Load) $A_{\rm f}$ = Tensile stress area of lapped reinforcement bars. = 28 day concrete

BAR SPLIC	ER ASSEMBLI	ES	
	Strength Requirements		
elicer Rod or el Bar Length	Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension	
1'-8''	14.7	5.9	
2'-0"	23.0	9.2	
2'-7"	33.1	13.3	
3'-5"	45.1	18.0	
4'-5"	58.9	23.6	
5'-9"	75.0	.30.0	
7'-3''	95.0	38.0	
9′-0″	117.4	46.8	

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

ruction	Stoge II Construction	0			
or Coil plers (E)	Threaded or Coli Splicer Rods (E)	Reinforcement Bars			

STANDARD

Bar Siz o	No. Assemblies Required
#5	30
#6	13

REVISIONS	ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME DATE	TERMORP DECAMINENT OF TRANSPORTATION
	BAR SPLICER DETAIL
	IL 9/IL 41
	DROWNING CREEK TRIBUTARY
	SN # 055-2504
	DATE CHECKED BY