

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:

Minimum Capacity (Tension in kips) = 1.25 x fy x A_t

(Iension III NUP) Minimum *Pull-out Strength = 0.66 x fy x A_t

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

A₁ = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

BAR SPLICER ASSEMBLIES								
to ed	Splicer Rod or Dowel Bar Length	Strength Requirements						
			Min. Pull-Out Strength kips – tension					
	1'-8''	14.7	7.9					
	2'-2''	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					

I Construction Stage II Construction										
I Construction		stage II Construct	rion							
hreaded or Coil oop Couplers (E)		hreaded or Coil plicer Rods (E)	<u>Reinforcement</u> Bars							
	<u>1'2"</u>									
STANDARD										
Bar Size	No. Assemblies Required	Location								
#6 #7	58 64	Expansion Joint Reconstruction								
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ETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C NL 045 0074	341	N-4-C-I	KANE	32	20
S.N. 045-0074			CONTRACT	NO. 6	SOD72
TO STA.	FED. RC	AD DIST. NO. ILLINOIS FED. AL	D PROJECT		