reinforcement bars.

(Tension III Nips) Minimum *Pull-out Strength = 0.66 x fy x At 2 (Tension in kips)

Bar Size to be Spliced #4 #5 #6 #7 #8 #9 #10 #11



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ROLLED THREAD DOWEL BAR

MANANANAN

** ONE PIECE

-Wire Connector

The diameter of this part

is the same as the diameter

of the bar spliced.

= CFC_

NAME

SER

WELDED SECTIONS

The diameter of this part is equal or larger than the

-> diameter of bar spliced.

BAR SPLICER ASSEMBLY ALTERNATIVES

**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E) : Indicates epoxy coating.

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

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

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

Bar Size	No. Assemblies Required	Location	
#5 [.]	1387	Deck (EB)	
#5	1450	Deck (WB)	
#9	10	Edge Beams (EB)	
#9	10	Edge Beams (WB)	
#5	28	Abuts (EB)	
#6	8	Abuts (EB)	
#5	32	Abuts (WB)	
#6	8	Abuts (WB)	

BAR SPLICER ASSEMBL	LY DETAILS
STRUCTURE NO. 082-	0162 (EB)
STRUCTURE NO 082-	0163 (WR)

D. 59	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	64	82-2VB	ST. CLAIR	153	114		
ETS	CONTRACT NO. 76867				867		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT							