	F.A.I. SECTION		COUNTY		TOTAL	SHEET NO.	
	412	(50~GVB)I	-2		LASALLE	25	20
FED. RO		AD DIST. NO.	ILLIN	OIS	STATE A	ID PROJ	ECT

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 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 reinforcement bars.

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= 1.25 x fy x A $_{\uparrow}$

(Tension in kips)

Minimum *Pull-out Strength = 1.25 x fs allow A + (Tension in kips)

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

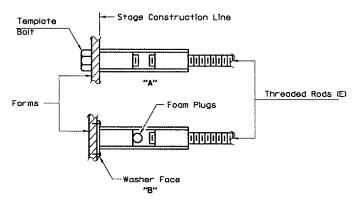
fsolione Allowable tensile stress in lapped reinforcement bars in ksi (Service Load) Ata Tensile stress area of lapped reinforcement bars.

• = 28 day concrete

	BAR SPLICER	R ASSEMBLIES		
		Strength Requirements		
Bar Size to be Spliced	Splicer Rod or Dowel Bor Length	Min. Capacity kips – tension	Min. Pull-Out Strength kips - tension	
*4	1'-8"	14.7	5.9	
*5	2'-0''	23.0	9.2	
#6	2'-7"	33.1	13.3	
* 7	3′-5″	45.1	18.0	
* 8	4′-6′′	58.9	23.6	
# 9	5′-9′′	75.0	30.0	
* 10	7′-3′′	95.0	38.0	
*11	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."

ROLLED THREAD DOWEL BAR



INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template balt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.

Stage Construction Line Stage II Construction Stage I Construction Threaded Couplers (E) Reinforcement Bars Threaded Couplers (E) Reinforcement Bars 11/2" cl.

STANDARD

No. Assemblies Location Required N & S ABUTS & STAGE LINE N & S ABUTS @ STAGE LINE N & S ABUTS & STAGE LINE 12

REVISION		ILLINOIS DEPARTMENT OF TRANSPORTATION			
NAME	DATE				
		DAD COLLCED ACCEMBLY DETAILS			
		BAR SPLICER ASSEMBLY DETAILS			
		S.N. 0500168 (NB)			
		F.A.I. 412 OVER C. & N.W. RAILROAD			
	i				
		SECTION (50-6VB)I-1			
		STA. 1429 + 12.74			
		31M. 1423 T 12.74			

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LASALLE COUNTY

The diameter of this part... is the same as the diameter of the bar spliced.

SECTION: (50-6VB)I-2

FAI 412 (I-39)