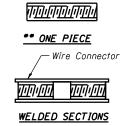
SHEET NO. 3

3 SHEETS

CONTRACT NO.

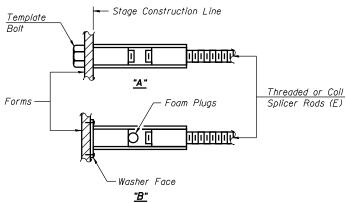
The diameter of this part is equal or larger than the The diameter of this part diameter of bar spliced. is the same as the diameter of the bar spliced.

ROLLED THREAD DOWEL BAR



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.

<u>NOTES</u>

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) = $1.25 \times fy \times A_t$

(Tension in x_{ips})

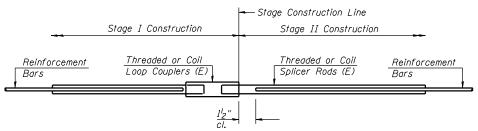
Minimum *Pull-out Strength = 1.25 x fs_{allow} x A,

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

fs_{allow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load) A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

BAR SPLICER ASSEMBLIES						
5 6. ,		Strength Requirements				
be Spliced	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kips - tension			
#4	1′-8"	14.7	5.9			
#5	2'-2"	23.0	9.2			

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."



STANDARD

Bar Size	No. Assemblies Required	Location	
#5	9	Top Slab	
#4	14	Bottom Slab	
#5	12	Outside Walls	

ILLINOIS DEPARTMENT OF TRANSPO	RTATION
BAR SPLICER ASSEMBLY DETAIL	LS
FAP 315 (IL 336/US 136) SECTION 34-5 (5B) HANCOCK COUNTY STATION 1209+45	PROJECT NO. 02070 SCALE DATE 03/08/00 DRAWN 87 TFO CHECKED BY AJB/MCI
COOMBE-BLOXDORF P.C. Engineers /Land Surveyors Springfield, Illinois Design Firm License No. 184-002703	OF 3 SHTS