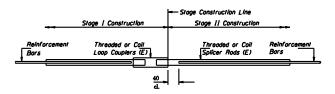
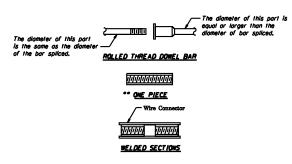
I	POUTE NO. SECTION		COUNTY		TOTAL SHEET VA	*5.	SHEET NO.
	FAI 55	•	MCLEAN		87	67	IOA SHEETS
Ì	PEO. PO40 DIST.	.40. 7			DJECT-		

• (57-4)RS-3 & I

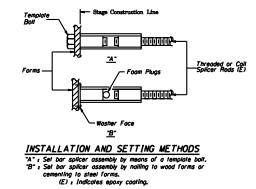


BAR SPLICER ASSEMBLY DETAIL

Bar Size	No. Assemblies Required	Location
* /5	182	Slab
*20	16	Backwall



BAR SPLICER ASSEMBLY ALTERNATIVES "" Heavy Hex Nuts conforming to ASTM A 563M, Grade C. D or DH may be used.



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 400 MPa yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and ited 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 bor splicer assembly solisifies the following requirements:

Minimum Capacity: 1,25 x 10³x fy x Aı (Tension in kil)

Minimum "Pull-out Strength : 1,25 x 10³x fs allow x A₁ (Tension in kil)

Where fy * Yield strength of lapped reinforcement bars in MPa (Service Load) A₁ * Tensile stress area of lapped reinforcement bars (mm²),

* 28 day concrete

BAR SPLICER ASSEMBLIES								
		Strength Requirements						
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Mîn. Capacity kN - tension	Min., Pull-Out Strength kN - tension					
* 15	610 mm	100	40					
*20	790 mm	150	60 100					
<i>*2</i> 5	1.04 m	250						
*30	1.37 m	350	140					

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."

All dimensions are in millimeters (mm) except as noted.

GAE DESIGNED CHECKED CHECKED GAE BAR SPLICER ASSEMBLY DETAILS F.A.I. 55 OVER BUSINESS U.S. 51 SECTION (57-4)RS-3 & I MCLEAN COUNTY SN 057-0024 (NB) SN 057-0025 (SB) STA. 37+474.206