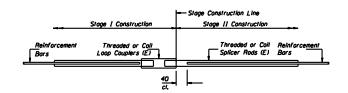
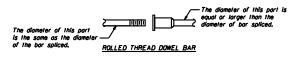
ROUTE NO.	920104	co	COUNTY		~ ∰"	SHEET NO.	
FAI 55	•	MCLEAN		87	80	14A SHEETS	
PEO. PO40 DIS	PED. 1040 DIST. 40. 7		FEG. 440 PROJECT:				

• (57-4)RS-3 & I



BAR SPLICER ASSEMBLY DETAIL

*15 170 Slab *20 16 Backwall	Bor Size	No. Assemblies Required	Location
#20 16 Backwall	<i>*1</i> 5	170	Slab
	#20	16	Backwall

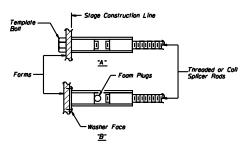






BAR SPLICER ASSEMBLY ALTERNATIVES

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



INSTALLATION AND SETTING METHODS

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

<u>NOTES</u>

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yleid strength of the lopped reinforcement bars.

Splicer rods shall be of minimum 420 MPa yleid strength, threaded or coiled full length, All reinforcement bars shall be lapped and lied to the splicer rods or dowel 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 10 x fy x A,

(Tension in kt)

(Tension in kt)

(Tension in kt)

(Tension in kt)

Where fy = Yleid strength of lapped reinforcement bars in MPa.

I Tensile stress area of lapped reinforcement bars in MPa (Service Load)

A, = Tensile stress area of lapped reinforcement bars (mm²).

** 28 day concrete*

BAR SPLICER ASSEMBLIES							
		Strength Requirements					
be Spliced	Splicer Rod or Dowel Bar Length	Min. Capacity kN - tension	Min, Pull-Out Strength kN - tension				
#/3	510 mm	68	27				
#16	610 mm	102	41				
*19	790 mm	147	59				
*22	1.04 m	201	80				
#2 5	1.37 m	262	105				

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and instalation of bar splicer assemblies will be measured and poid for at the contract unit price s

GAE DESIGNED JDA CHECKED CHECKED GAE

BSD-1 (M) 4-30-97

BAR SPLICER ASSEMBLY DETAILS F.A.I. 55 OVER CONSTITUTION TRAIL SECTION (57-4)RS-3 & I MCLEAN COUNTY SN 057-0026 (NB) SN 057-0027 (SB) STA. 38+263.167