## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



BSD-1 (M) 4-30-97

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO.
F.A.I. 80/94	*	соок	870	687	13 SHEETS
FED. ROAD DIS	T. NO. 1	ILLINOIS FED. AID	PROJECT		

## 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 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:

fs<sub>allow</sub>= Allowable tensile stress in lapped reinforcement bars in MPa (Service Load)

 $A_{\rm f}$  = Tensile stress area of lapped reinforcement bars (mm<sup>2</sup>), \* = 28 day concrete

BAR SPLIC	ER ASSEMBLI	ES		
<u> </u>	Strength Requirements			
Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kN - tension		
610 mm	100	40		
790 mm	150	60		
1.04 m	250	100		
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.

