

ROUTE NO.	SECTION	COUNTY		TOTAL SHEETS	SHEZT	SHEET NO. 5-35	
F. A. J. 80.194	2626.2-R-2	LAKE COLINTY, INDIANA		1207	614	40 SHEETS	
		ILLINOIS	FED. AD PROJECT-				
CONTRACT NO. 62114 INDOT DES. NO. 0100987							

<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 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:
 - Minimum Capacity (Tension in kN) = 1.25 x 10^3 ty x A_t

 - (Tension in Kw) Minimum *Pull-out Strength = $1.25 \times 10^3 x$ fs allow X A₁

 - Where fy = Yield strength of lapped reinforcement bars in MPa. fs_{allow}= Allowable tensile stress in lapped reinforcement bars in MPa (Service Load) A_t = Tensile stress area of lapped reinforcement bars (mm²). * = 28 day concrete

BAR SPLICER ASSEMBLIES							
		Strength Requirements					
	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kN - tension				
#15	640 mm	100	40				
#20	790 mm	150	60				
#25	1.320 m	250	100				
#30	1.850 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 Threaded Tie Bar Assembly, Epoxy Coaled. All dimensions are in millimeters (mm) except as noted.

