

6

ALL DIMENSIONS IN METERS EXCEPT PAY	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ITEMS AND UNLESS NOTED OTHERWISE	80/94	2626.2-R-2	COOK/LAKE	1207	102
	STA.		TO STA.		
	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
	CONTRA	CT NO. 62114	INDOT DES. NO. 0100987		
					1

## <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 colled 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

(Tension in kN)

Where fy = Yield strength of lapped reinforcement bars in MPa.  $A_{f}$  = Tensile stress area of lapped reinforcement bars in MPa (Service Load)  $A_{f}$  = Tensile stress area of lapped reinforcement bars (mm<sup>2</sup>). \* = 28 day concrete

BAR SPLICER ASSEMBLIES								
	Splicer Rod or	Strength Requirements						
		Min. Capacity kN - tension	Min. Pull-Out Strength kN - tension					
#15	610 mm	100	40					

Bar splicer assemblies shall be installed at the lug locations as shown on the plan details for the staged lug systems.

When the second stage of the lug system is to be completed in a seperate contract, the Contractor shall deliver the remainder of the bar splicer to the IDOT Bishop Ford Maintenance Yard (708) 331-4339 for storage. The bars shall be enclosed in a water resistant wooden container of sufficient strength to withstand the anticipated handeling of the bar splicers prior to reuse at a later date. The container shall be clearly stamped for the

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

BAR SPLICER ASSEMBLY DETAILS

		ILLINOIS DEPARTMENT OF TRANSPORTATION				
		I-80/94/US 6				
		KINGERY-BORMAN EXPRESSWAY				
		BURNHAM ROAD TO US 41				
REVISIONS BAR SPLICER ASSEMB						
NAME	DATE	DETAIL FOR				
			LU	G SYSTEM	Bars b	
		SCALE	NONE		DRAWN BY	ACE/CAD
		DATE	07/05		CHECKED BY	TAE
				MER	ICAN	
				DNSULTING		