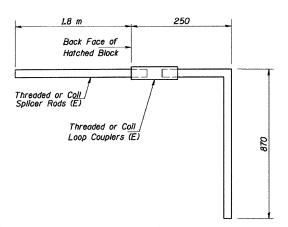


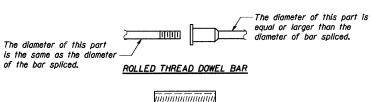
BAR SPLICER ASSEMBLY DETAIL

Bar Size	No. Assemblies Required	Location	
#15	520	Superstructure	
#15	16	E. & W. Abut.	
#20	8	E. & W. Abut.	



BAR SPLICER ASSEMBLY DETAIL FOR #15 BAR AT ABUTMENTS

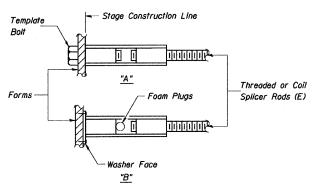
Location	No. Assemblies Required	Bar Size
West Abutment	85	#15
East Abutment	85	#15



** ONE PIECE Wire Connector WELDED SECTIONS

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 bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.

SHEETS NO. 521 FAU 1584 94 S23 SHEETS соок 119 PED. ROAD DIST. NO. 7 ILLINOIS PED. AID PROJECT • 068-1919.2-CF CONTRACT 60371

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 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 bar splicer assembly satisfies the following requirements:

Ssembly satisfies the following the Minimum Capacity = 1.25 x fy x A, (Tension in kN) = 1.25 x fy x A, Minimum ****Pull-out Strength = 0.66 x fy x A, 2

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

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

*** = 28 day concrete

BAR SPLICER ASSEMBLIES					
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements			
		Min. Capacity kN - tension	Min. Pull-Out Strength kN - tension		
#15	510 mm	70	40		
#20	610 mm	110	60		

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.

REVISIONS DATE COLLINS 123 North Wacker Dri
Suits 200
Chicago, II. 60606
ENGINEERS 2 (322 704-9300
ILLINOIS PROFESSIONAL DESIGN FREM LICENSE NO. 184-0009

ILLINOIS DEPARTMENT OF TRANSPORTATION 115 TH. STREET OVER FAI 57 FAU RTE. 1584 SEC. 068-1919.2-CF COOK COUNTY STATION 2+382.915 STRUCTURE NO. 016-2037

BAR SPLICER DETAILS DRAWN BY KAC

CHECKED BY MDK/DGS