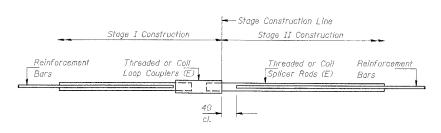
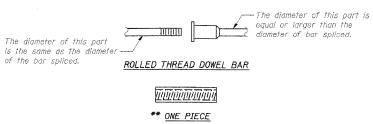
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



BAR SPLICER ASSEMBLY DETAIL

Bar Size	No. Assemblies Required	Location
#13	14	Bottom Stab
#16	9	Top Slab
#.16	15	Side Walls

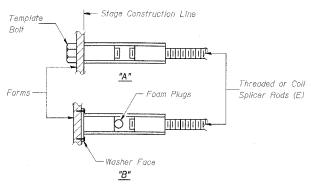


- Wire Connector

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

TOTAL SHEE SHEETS NO. F.A.P. RTE. SECTION COUNTY 337 20 WRS-6 LAKE 3/8 /97 TO STA. FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT CONTRACT NO. 62030

<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 lest results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

(Cention with the following requirements:

Minimum Capacity
(Tension in kN) = 1.25 x 10^3 x fy x A,

Minimum *Pull-out Strength = 1.25 x 10^3 x fs allow x A,
(Tension in kN)

(Tension in kN)

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 Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements		
		Min. Capacity kN - tension	Min. Puli-Out Strength kN - tension	
#13	510 mm	67	27	
#16	610 mm	102	41	

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.

ILLINOIS DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY DETAILS IL. ROUTE 22 BOX CULVERT STATION 11+640.961

DRAWN BY DF

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