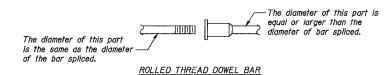
ROUTE NO.	SECT.	COUNTY		SHEET NO.	TOTAL SHEETS
F.A.I. 74	(72-7) R-3	PEORIA		S35	/360
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 68200

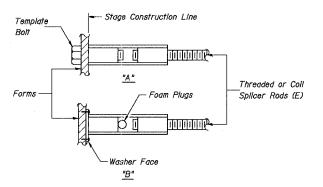


** ONE PIECE



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.

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 fied 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:

icer assembly satisfies the following $3.3 \times 10^{3} \times 10$

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				
be Spliced	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kN - tension			
#15	610 mm	100	40			
#20	790 mm	150	60			
#25	1.04 m	250	100			
#30	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.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY DETAILS

RAMPS B-3 AND B-5 OVER WAR MEMORIAL DR. AND RAMP B-6 F.A.I. ROUTE 74 SECTION (72-7) R-3 PEORIA COUNTY STA. 10+618.61 (RAMP B-3) STA. 10+472.60 (RAMP B-5) STRUCTURE NUMBER 072-0190

PARSONS TRANSPORTATION GROUP CHICAGO, ILLINOIS							
DRAWING NO.	SCALE	DATE	SHEET NO.				
36	N.T.S.	2-21-03	36				

Appr. Siab S. Abut. Threaded or Threaded or Coil Loop Couplers (E) Coil Splicer Rods (E) Reinforcement Bars 1.8 m

ABUTMENT BAR SPLICER ASSEMBLY DETAIL FOR #15 BAR

Min. Capacity = 100 kN - tension Min. Pull-out Strength = 40 kN - tension No. Required = 84

BSD-1 (M) 4-30-97