Bar splicer assemblies shall be of an approved type and shall develop in tension at least

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 ASSEMBLIES

kins - tension

23.0

33.1

45.1

58.9

75.0

95.0

117.4

Strength Requirements

Min. Capacity Min. Pull-Out Strength

kips - tension

7.9

12.3

17.4

23.8

31.3

39.6

50.3

61.8

Splicer rods shall be of minimum 60 ksi 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

125 percent of the yield strength of the lapped reinforcement bars.

Minimum Capacity = 1.25 x fy x A₁

(Tension in kips) = 1.25 x fy x A₁

Minimum *Pull-out Strength = 0.66 x fy x A₁

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

Splicer Rod or

1'-8'

2'-0"

2'-7"

3'-5"

4'-6"

5'-9"

7'-3"

9'-0"

Dowel Bar Length

A_t = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

bar splicer assembly satisfies the following requirements:

② (Tension in kips)

Bar Size to

be Spliced

#4

#7

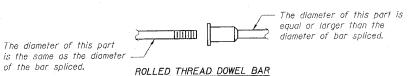
#8

#9

#10

reinforcement bars.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

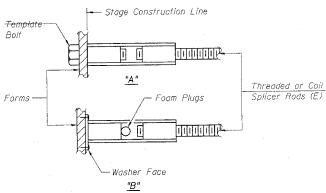


** ONE PIECE — Wire Connector

BAR SPLICER ASSEMBLY ALTERNATIVES

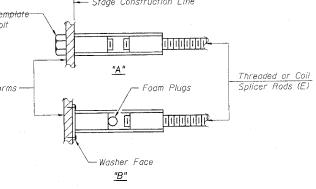
WELDED SECTIONS

** Heavy Hex Nuts conforming to ASTM A 563, 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.



- Stage Construction Line Stage II Construction Stage I Construction Threaded or Coil Loop Couplers (E) Threaded or Coil Splicer Rods (E) Reinforcement

STANDARD

Bar Size	No. Assemblies Required	Location	
#5	28	Slab	
#6	8	Backwall	

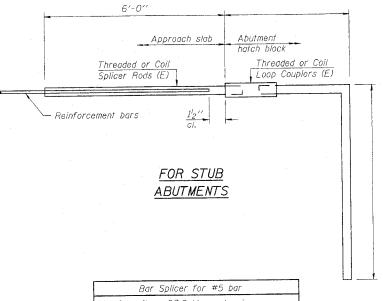
BAR SPLICER ASSEMBLY DETAILS FAI 70 (EB) OVER WENDELL BRANCH FAI ROUTE 70 SECTION 60-10B MADISON COUNTY STATION 996+73.85 STRUCTURE NO. 060-0023

Approach Slab Bridge Deck Threaded or Coil Threaded or Coil Reinforcement Splicer Rods (E) Loop Couplers (E) 6'-0"

FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar			
Min.	Capacity = 23.0 kips - tension		
Min.	Pull-out Strength = 12.3 kips - tension		

Johnson, Depp & Quisenberry CONSULTING ENGINEERS Springfield, Illinois					
DESIGNED:	CDB	DRAWN:	P. Ray		
CHECKED:	DCD	CHECKED:	CDB/DCD		



Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension No. Required =

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