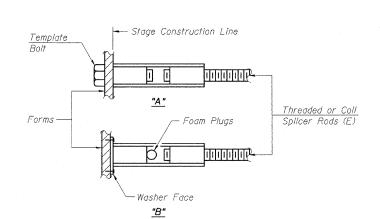
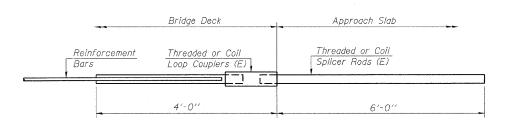
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



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.



ROLLED THREAD DOWEL BAR

** ONE PIECE

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WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM

A 563, Grade C, D or DH may be used.

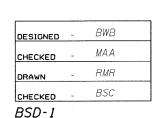
-Wire Connector

The diameter of this part is equal or larger than the

diameter of bar spliced.

FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

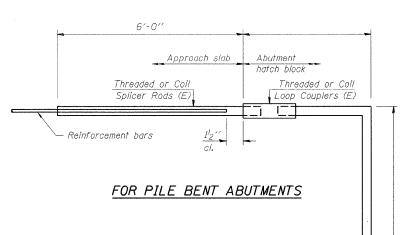
	Bai	Splicer	for #	‡5 bar		
Min.	Capacity	= 23.0	kips	- tensio	วก	
Min.	Pull-out	Strength	= 12.	3 kips	-	tension
No.	Required	=				



The diameter of this part

of the bar spliced.

is the same as the diameter



Min. Capacity = 23.0 kips - tension lin. Pull-out Strength = 12.3 kips - tensio o.Required =

<u>NOTES</u>

ROUTE NO.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.	SHEET N	10.	5 01
FAP 760	124BR-1	DEWITT		64	42	7 SHEE	ETS	
ED. POAD DIST	. NO. 6	ILLINOIS	FED. AID PROJECT-					

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 60 ksi 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:

Minimum Capacity (Tension in kips) = 1.25 x fy x A_t

Minimum *Pull-out Strength = $0.66 \times fY \times A_t$

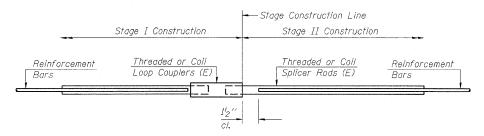
Where fy = Yield strength of lapped reinforcement bars in ksi.

 A_t = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

BAR SPLICER ASSEMBLIES					
		Strength Requirements			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension		
#4	1'-8''	14.7	7.9		
#5	2'-0''	23.0	12.3		
#6	2'-7''	33.1	17.4		
#7	3′-5″	45.1	23.8		
#8	4'-6''	58.9	31.3		
#9	5′-9′′	75.0	39.6		
#10	7'-3''	95.0	50.3		
#11	9′-0′′	117.4	61.8		

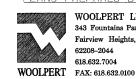
Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



STANDARD

Bar Size	No. Assemblies Required	Location
#5	44	Bottom Slab
#7	20	Exterior Walls
#5	20	Center Wall
#6	26	Top Slab
#5	22	Top Slab

PLANS PREPARED BY:



WOOLPERT LLP 343 Fountains Parkway, Suite A Fairview Heights, IL 62208-2044

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL ROUTE 48 OVER

> TRIBUTARY TO FRIENDS CREEK DITCH FAP 760 - SECTION 124BR-1 DEWITT COUNTY STATION 73+02.00 STRUCTURE No. 020-2011 BAR SPLICER ASSEMBLY DETAILS