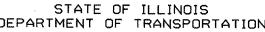
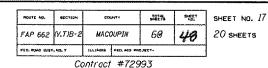
DEPARTMENT OF TRANSPORTATION





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 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

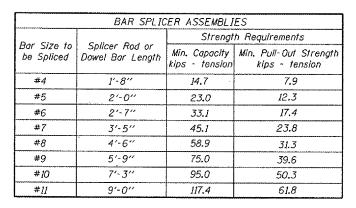
reinforcement bars. Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

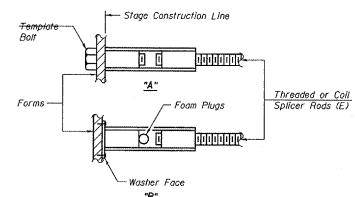
Minimum Capacity (Tension in kips) = $1.25 \times fy \times A_t$

Minimum *Pull-out Strength (Tension in kips) = 0.66 x fy x A₁

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

A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete





BAR SPLICER ASSEMBLY ALTERNATIVES

ROLLED THREAD DOWEL BAR

MARAMOONA

** ONE PIECE

*0000*0

WELDED SECTIONS

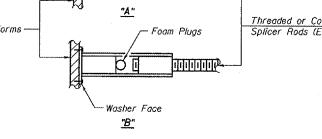
- Wire Connector

The diameter of this part is

equal or larger than the

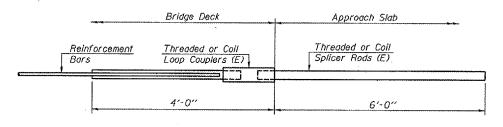
diameter of bar spliced.

** 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.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

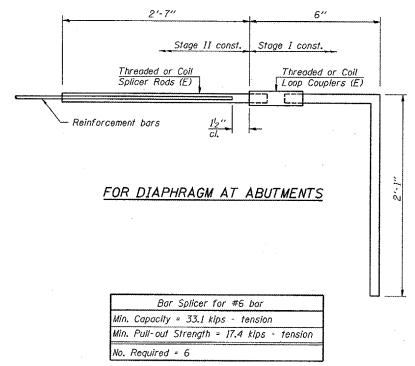
Bar Splicer for #5 bar							
Min.	Capacity	= 23.0	kips	- 1	ensid	n	
Min.	Pull-out	Strength	= 12	2.3	kips	-	tension
No.	Required	<i>= 70</i>					

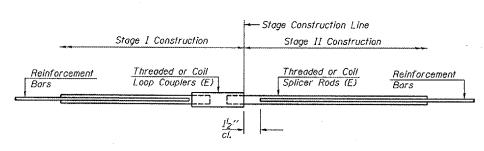
r	······	¬
DESIGNED	DPN	Jan 23
CHECKED	A <i>JB</i>	EXAMINED Thomas Dona
DRAWN	h.t. duong	PASSED Ralph E. an
CHECKED	FT/AJB/DPN	ENGINEER OF BRIDGES AND ST

The diameter of this part

of the bar spliced.

is the same as the diameter





STANDARD

L	Bar No. Assemblies Size Required		Location		
Г	#5	245	Slab		
	#6	10	Diaphragm		
	#7	24	Abutment cap		

BAR SPLICER ASSEMBLY DETAILS F.A.P. RT. 662 SECTION (V.T)B-2 MACOUPIN COUNTY STATION 447+03.80 STRUCTURE NO. 059-0504