STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



Contract #74003

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 tied to the splicer rods or dowel bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

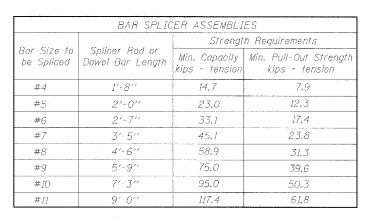
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

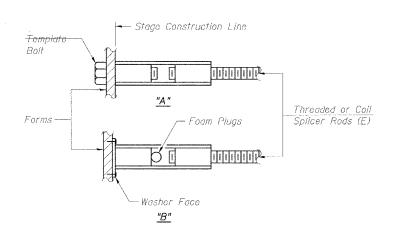
Minimum Capacity $(Tension in kips) = 1.25 \times fy \times A_t$

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

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

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





BAR SPLICER ASSEMBLY ALTERNATIVES

--- 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.

WELDED SECTIONS

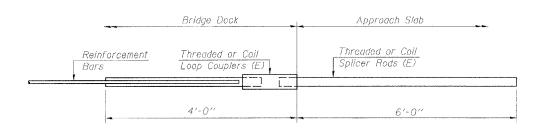
ROLLED THREAD DOWEL BAR

** ONE PIECE

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	enslo	n	,
Min.	Pull-out	Strength	= 1.	2.3	kips	-	tension

DESIGNED	JJD
CHECKED	EML
DRAWN	JJD
CHECKED	EML

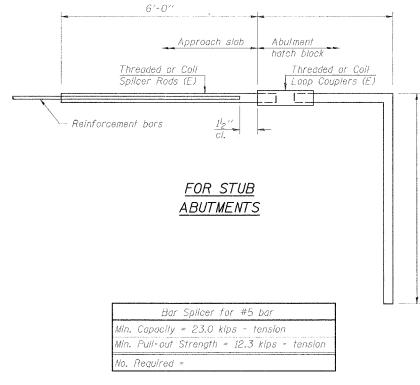
11-1-06

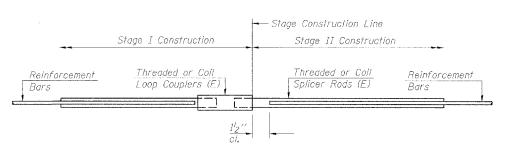
BSD-1

The diameter of this part

of the bar spliced.

is the same as the diameter -





STANDARD

Bar Size	No. Assemblies Required	Location		
#5	42	Concrete Wearing Surface		

BAR SPLICER ASSEMBLY DETAILS F.A.P. ROUTE 328 - SECTION (8BR-1)B-1 WAYNE COUNTY

HORNER & SHIFRIN, INC. ENGINEERS

STATION 719+63.09 STRUCTURE NO. 096-0020