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 = 1.25 x fy x A t

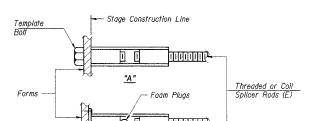
(Tension in kips) = 1.25 x fy x A t

(Minimum \*Pull-out Strength (Tension in kips) = 0.66 x fy x A t

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

A<sub>t</sub>= Tensile stress area of lapped reinforcement bars. \*' = 28 day concrete

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



## BAR SPLICER ASSEMBLY ALTERNATIVES

ROLLED THREAD DOWEL BAR

\*\* ONE PIECE

WELDED SECTIONS

-- Wire Connector

The diameter of this part is equal or larger than the

\*\* Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.

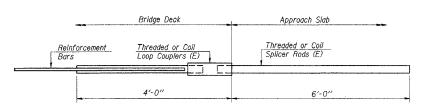
The diameter of this part

is the same as the diameter of the bar spliced.

## <u>"B"</u> INSTALLATION AND SETTING METHODS

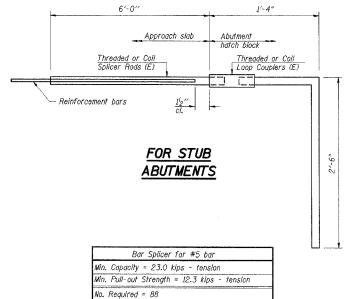
Washer Face

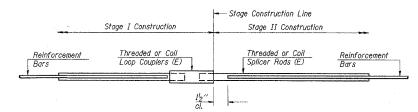
"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nalling to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



## FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	Bar Splicer for #5 bar	_
Min.	Capacity = 23.0 kips - tension	
Min.	Pull-out Strength = 12.3 kips - tension	
No.	Required =	





## STANDARD

Bar Size	No. Assemblies Required	Location

BSD-1

11-1-06

LOCKPORT TOWNSHIP HIGHWAY DEPARTMENT SHT. S-26 OF 28 TR216A HIGH ROAD OVER LONG RUN CREEK REVISIONS DATE SECTION 02-11106-01-BR

BAR SPLICER ASSEMBLY DETAILS

SCALE: DATE: 9-07-2007

DRAWN BY: KK CHECKED BY: CCE

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