Stage Construction Line

Threaded or Coil

Splicer Rods (E)

<u>"A"</u>

-Washer Face

<u>"B"</u>

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

(E): Indicates epoxy coating.

6'-0"

cementing to steel forms.

Template

Forms -

Contract #63074

### <u>NOTES</u>

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,

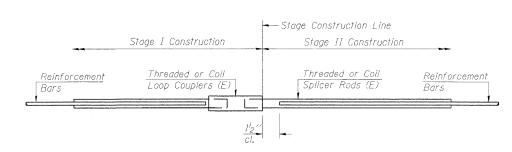
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- Minimum Capacity =  $1.25 \times fy \times A_t$
- (Tension iii Apa) Minimum \*Pull-out Strength = 0.66 x fy x A<sub>t</sub> (Tension in kips)

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

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

	BAR SPLIC	ER ASSEMBLI	ES	
		Strength Requirements		
	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kips - tension	
#4	1'-8''	14.7	7.9	
#5	2'-2''	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	



# STANDARD

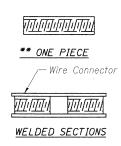
Size	No. Assemblies Required	Location
#6	44	Footing
#6	48	Walls
#7	66	Slab
#5	33	Slab

BAR SPLICER DETAILS MULTI-USE PATH UNDER IL 25/STEARNS ROAD F.A.P. 360 - SEC. 06-00214-15-BR KANE COUNTY STATION 916+09.93 STRUCTURE NO. 045-3173

The diameter of this part is equal or larger than the diameter of bar spliced.

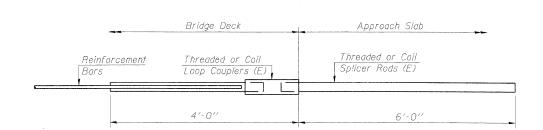
The diameter of this part is the same as the diamete of the bar spliced.

ROLLED THREAD DOWEL BAR



#### BAR SPLICER ASSEMBLY ALTERNATIVES

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



## 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	-			

## Approach slab *Abutment* hatch block Threaded or Coil Threaded or Coil Loop Couplers (E) Splicer Rods (E) Reinforcement bars FOR STUB **ABUTMENTS**

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

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DRAWN HMA/DMC CHECKED BSD-1 10 - 1 - 08

DESIGNED

CHECKED

AAY