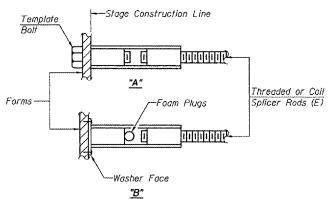
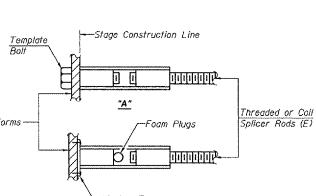
### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



## 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.



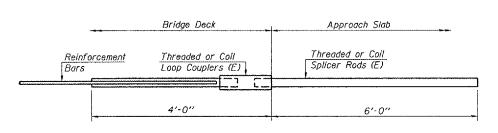
BAR SPLICER ASSEMBLIES Strength Requirements Splicer Rod or

- Stage Construction Line

Stage II Construction

Threaded or Coil

Splicer Rods (E)



ROLLED THREAD DOWEL BAR

*וויינויויפויפויעויוו*ו

\*\* ONE PIECE

WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

\*\*Heavy Hex Nuts conforming to ASTM

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

Wire Connector

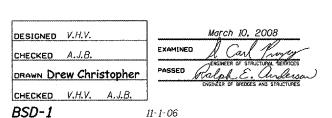
The diameter of this part is

equal or larger than the

diameter of bar spliced.

# FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

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



6'-0" Approach slab Abutment hatch block Threaded or Coil Threaded or Coil Splicer Rods (E) Loop Couplers (E) Reinforcement bars FOR STUB ABUTMENTS Bar Splicer for #5 bar

Min. Capacity = 23.0 kips - tension

o. Required =

Min. Pull-out Strength = 12.3 kips - tension

Bar No. Assemblies Location Size Required #5 13 S.E. Abut.

STANDARD

BAR SPLICER DETAILS F.A.I. RT. 90/94 COOK COUNTY SN 016-2574

Reinforcement

Bars

SLT-91-001-08

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The diameter of this part

of the bar spliced.

is the same as the diameter

### SHEET NO. 4 MOUTE NO. BECTION COUNTY 4 SHEETS 18 9 Cook

Contract Number: 60E14

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 kst 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<sub>t</sub>

Stage I Construction

Reinforcement

Bars

Threaded or Coil Loop Couplers (E)

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

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

A<sub>1</sub> = Tensile stress area of lapped reinforcement bars.
\* = 28 day concrete

be Spliced	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 <b>.</b> 3
#11	9'-0"	117.4	61.8