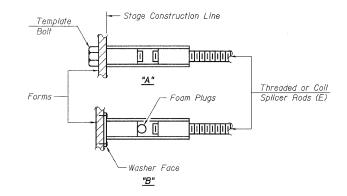
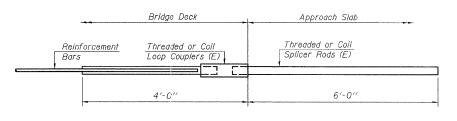


** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



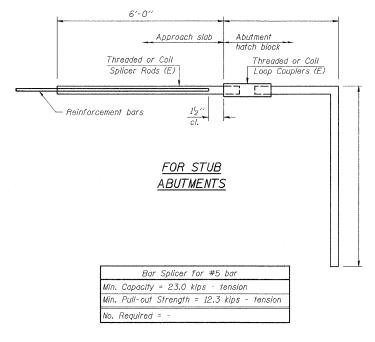
INSTALLATION AND SETTING METHODS

"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 - tension
Min.	Pull-out Strength = 12.3 kips - tension



TOTAL SHEET NO. F.A.P. RTE. SECTION COUNTY 338 2007-024 I DuPAGE 26 21 STA. TO STA. FED. ROAD DIST, NO. ILLINOIS FED. AID PROJECT

CONTRACT NO. 60C90

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:

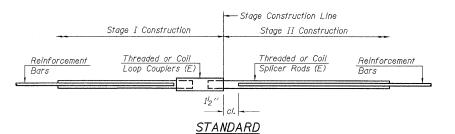
(Tension in kips)

Minimum **Pull-out Strength = 0.66 x fy x A_t Minimum rum co.
(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 SPLICER ASSEMBLIES						
D-# C' 4-	Splicer Rod or Dowel Bar Length	Strength Requirements				
Bar Size to be Spliced		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	50.3			
#11	9'-0"	117.4	61.8			



S.N. 022-0143 & 022-0144 FOR EACH STRUCTURE

Bar Size	No. Assemblies Required	Location
#6	32	Slab
#6	16	Abutments
Total	48	

ILLINOIS DEPARTMENT OF TRANSPORTATION BAR SPLICER ASSEMBLY DETAILS IL. RTE. 59 OVER B.N.S.F. R.R. F.A.P. RTE. 338 SECTION: 2007-024 I DuPAGE COUNTY S.N. 022-0143 & S.N. 022-0144 SCALE: NONE DATE: JANUARY 12, 2009 DRAWN BY: D.L./F.M. CHECKED BY: B.N.S./S.J.P CHRISTIAN-ROGE & ASSOC., INC.