

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

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

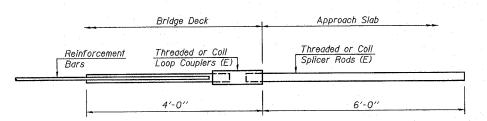
ROLLED THREAD DOWEL BAR

** ONE PIECE - Wire Connector

WELDED SECTIONS

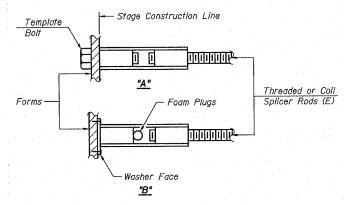
BAR SPLICER ASSEMBLY ALTERNATIVES

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



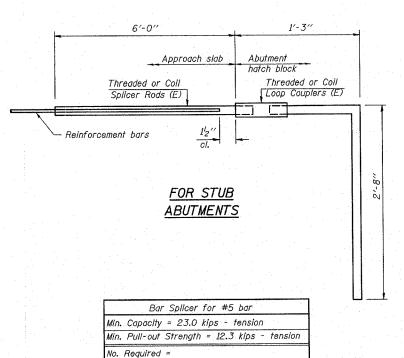
FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

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



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.



SHEET S12 OF S13

	PEDERAL AND SECTION			COUNTY	TOTAL SPEETS	SHEET NO.		
-	F.A. RTE. 374 (IL. RTE. 21)	211-K-V-X-E	3	COOK	38	26		
	STA. TO STA.							
	FED, ROAD DIST, NO.		ILLINOIS	FED. AT	PROJECT			
	CONTRACT NO. 60C20							

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

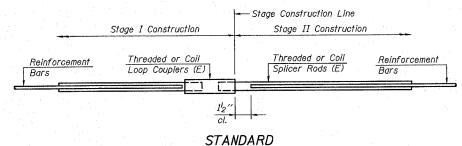
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

Minimum *Pull-out Strength = $0.66 \times fy \times A_t$ (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

	040.0017	SED ACCEUDIT	·		
<u> </u>	BAR SPLIC	CER ASSEMBLI			
Bar Size to	Splicer Rod or	Strength Requirements			
be Spliced	Dowel Bar Length		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		



Bar Size	No. Assemblies Required	Location
#5	162	Median
Total	160	

REVISIONS NAME

ILLINOIS DEPARTMENT OF TRANSPORTATION BAR SPLICER ASSEMBLY DETAILS

MILWAUKEE AVE. (IL. RTE. 21) OVER UNION PACIFIC RAILROAD F.A. RTE. 374 (S.B.I. RTE. 21) SECTION: 211-K-V-X-B
COOK COUNTY STATION 30+71.94
STRUCTURE NO. 016-0243
DRAWN BY: F.M.
CHECKED BY: B.N.S.

SCALE: DATE: JUNE 12, 2007

CHRISTIAN-ROGE & ASSOC., INC.

BSD-1

11-1-06