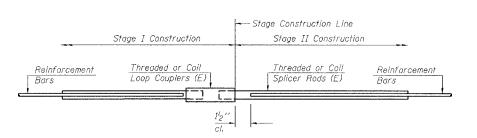
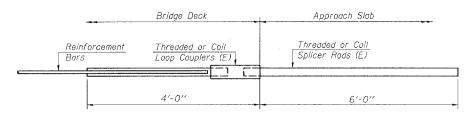
STATE OF ILLINOIS



SPLICER DETAIL

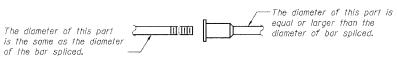
Bar Size	No. Assemblies Required	L.ocation		
#5	24	At Stage Construction Line in N.B. Deck		
,		e .		



INTEGRAL ABUTMENT BAR SPLICER ASSEMBLY DETAIL FOR #5 BAR

Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 9.2 kips - tension Required =

DEPARTMENT OF TRANSPORTATION



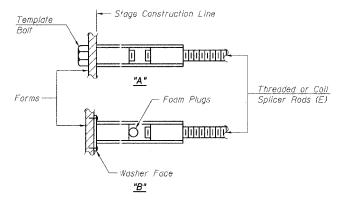
ROLLED THREAD DOWEL BAR

** 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.



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.

ROUTE NO. SECTION FAI 419 . COOK 202

of 8 Sheets

Sheet No 8

NOTES

* 2005-008F CONTRACT #62580

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:

1

Minimum Capacity = 1.25 x fy x A₁

(Tension in kips) = 1.25 x fy x A₁

Minimum *Pull-out Strength = 1.25 x fs_{allow} x A₁

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

 fs_{allow} = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)

 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	
#5	2'-0"	23.0	9.2	
#6	2'-7"	33.1	13.3	
#7	3'-5"	45.1	18.0	
#8	4'-6''	58.9	23.6	

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

PIER NO. 7

BAR SPLICER ASSEMBLY DETAILS						
REVISIONS No. DATE INITIALS 1	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	ORAWN BY DATE RLK 5/03 CHECKED BY DATE SDS 5/03				
2 3 4 5	FAI RTE 90/94 DAN RYAN EXPRESSWAY SN 016-1111 (NORTHBOUND) SEC 2005-008F COOK COUNTY	PROJECT No. 4222 - 3				
7 8 9	HOMER L. CHASTAIN & ASSOCIATES CONSULTING ENGINEERS HOMER L. SUITE 204 CHICAGO, LIARDIS 60031 SUL-714-0400 PAG 202-114-0400 PAG 202-114-0400	SHEET No.				