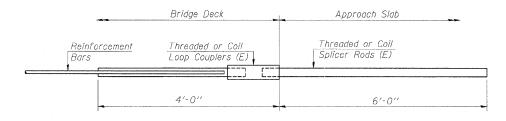


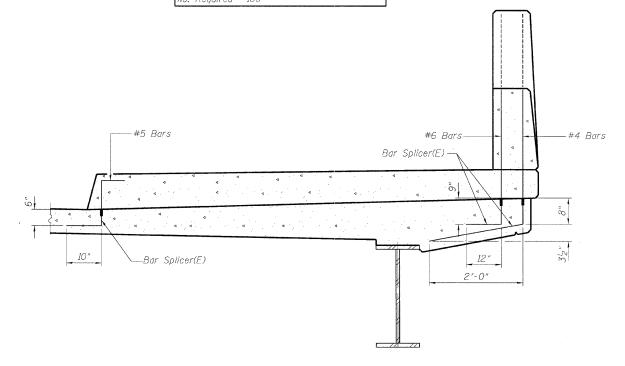
BAR SPLICER ASSEMBLY ALTERNATIVES

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



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

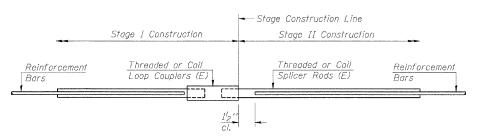
Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension



-Stage Construction Line Template <u>''A''</u> Threaded or Coil Forms-Splicer Rods (E) Foam Plugs -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 cementing to steel forms. (E) : Indicates epoxy coating.



STANDARD

Bar Size	No. Assemblies Required	Location		
5	2	W. Abutment		
7	10	W. Abutment		
5	16	Pier		
10	12	Pier		
6	8	Pier		
8	4	Pier		
6	16	Diaphragm		
5	2	E. Abutment		
7	10	E. Abutment		
4	205	Deck - d ₃ (E)		
4	10	Deck - d ₆ (E)		
5	740	Deck		
5	213	Deck - c(E)		
5	426	Deck - c ₃ (E)		
6	205	Deck - d ₄ (E)		
6	10	Deck - d ₇ (E)		

*SEC. 99 (1&2) R 3&9-1HB-1-BR2

ROUTE NO.	SECTION.	COUNTY		TOTAL SHEETS	SHEET NO.	SHEET	NO. 22
FAI 57	*	WILL		303	176	28 SHEETS	
ED. ROAD DIST. No. 7		BLUNDIS	PEO. AID PROJECT-				

Contract #62253

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 x fy x A,

(Tension in kips) = 1.25 x fy x A,

Minimum *Pull-out Strength = 0.66 x fy x A, 2 (Tension in kips)

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

A, = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

***************************************	BAR SPLIC	ER ASSEMBLI	ES		
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements			
			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 SPLICER ASSEMBLY DETAILS

MANHATTAN-MONEE ROAD (CH-6) OVER I-57

F.A. I-57

SEC. 99(1&2) R 3&9-1HB-1-BR2

WILL COUNTY STA.14037+43.90 STRUCTURE NUMBER 099-4647



1817 SOUTH NEIL STREET SUITE 100 CHAMPAIGN, IL 61820 PHONE : 217.373.8900 FAX : 217.373.8923

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING. DESIGNED BY: SMM PROJECT NO: 102230 DRAWN BY: MEW/SLD DATE: Ø6/2008 CHECKED BY: SLD APPROVED BY: SMM .

ACTIVITY INITIALS

S-22

DRAWING NUMBER

TYPICAL SIDEWALK BAR SPLICER DETAILS