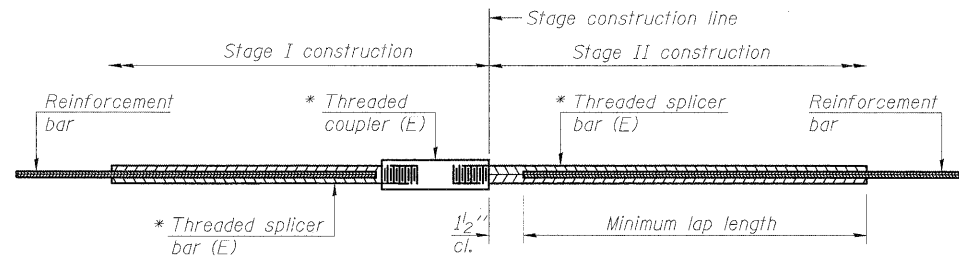


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION



**STANDARD BAR SPLICER ASSEMBLY**

Bar size to be spliced	Minimum Lap Lengths					
	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	6'-5"	6'-10"	7'-9"	8'-7"	9'-8"
10	5'-10"	8'-1"	8'-8"	9'-10"	10'-10"	12'-4"
11	7'-2"	10'-0"	10'-8"	12'-1"	13'-4"	15'-1"

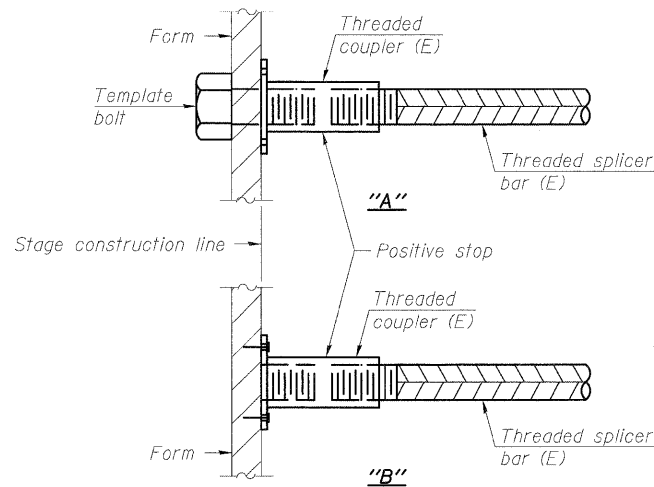
Table 1: Black bar, 0.8 Class C  
 Table 2: Black bar, Top bar lap, 0.8 Class C  
 Table 3: Epoxy bar, 0.8 Class C  
 Table 4: Epoxy bar, Top bar lap, 0.8 Class C  
 Table 5: Epoxy bar, Class C  
 Table 6: Epoxy bar, Top bar lap, Class C

Threaded splicer bar length = min. lap length + 1/2" + thread length

\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

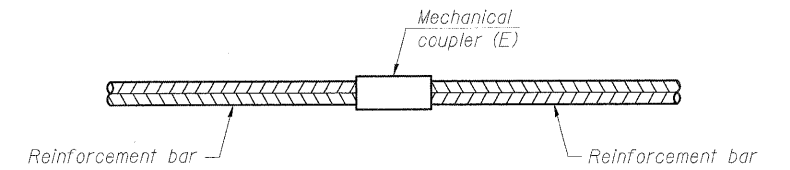
Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	1,388	Table 3
Diaphragm at East Abutment	#6	16	Table 4
Diaphragm at West Abutment	#6	16	Table 4
East Abutment	#6	16	Table 4
West Abutment	#6	16	Table 4
Pier 1-Cap	#5	12	Table 4
Pier 1 (Top)-Crashwall	#6	32	Table 4
Pier 1 (Bottom)-Footing	#6	22	Table 3
Pier 1 (Top) -Crashwall	#9	12	Table 6
Pier 1 (Top)-Cap	#11	18	Table 6
Pier 1 (Bottom)-Cap	#11	16	Table 5
Pier 2-Cap	#5	12	Table 4
Pier 2 (Top)-Crashwall	#6	32	Table 4
Pier 2 (Bottom)-Footing	#6	22	Table 3
Pier 2 (Top)-Crashwall	#9	12	Table 6
Pier 2 (Top)-Cap	#11	18	Table 6
Pier 2 (Bottom)-Cap	#11	16	Table 5
Pier 3-Cap	#5	12	Table 4
Pier 3 (Top)-Crashwall	#6	32	Table 4
Pier 3 (Bottom)-Footing	#6	22	Table 3
Pier 3 (Top)-Crashwall	#9	12	Table 6
Pier 3 (Top)-Cap	#11	18	Table 6
Pier 3 (Bottom)-Cap	#11	16	Table 5
East Approach	#4	50	Table 4
East Approach	#5	172 **	Table 3
West Approach	#4	50	Table 4
West Approach	#5	172 **	Table 3

\*\*Includes 80 bar splicers in approach footing (Billed with substructure)



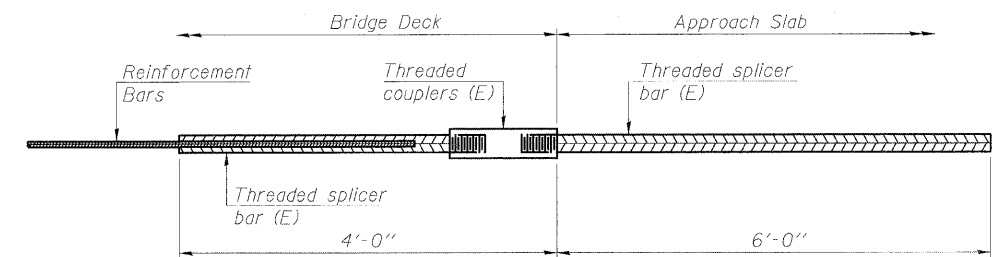
**INSTALLATION AND SETTING METHODS**

"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 MECHANICAL SPLICER**

Location	Bar size	No. assemblies required

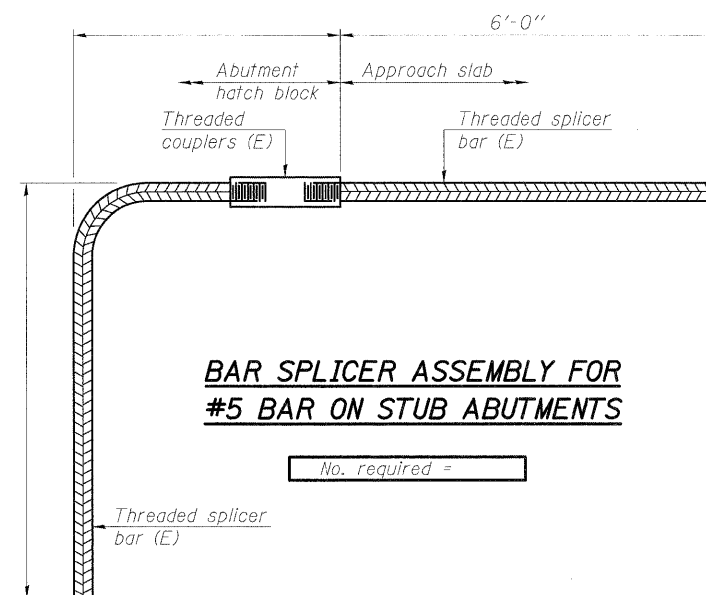


**BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS**

No. required = 256

**NOTES**

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
 All reinforcement shall be lapped and tied to the splicer bars.  
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
 See special provision for Mechanical Splicers.  
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.



**BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS**

No. required =

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
 STRUCTURE NO. 046-0144 (S.B.)  
 & STRUCTURE NO. 046-0145 (N.B.)**

DESIGNED	PMH
CHECKED	BB
DRAWN	PMH
CHECKED	BB

BSD-1

11-1-09

**McDonough Associates Inc.**  
 Engineers / Architects  
 130 East Randolph Street  
 Chicago, Illinois 60601  
 (312) 946-8600

SHEET NO.	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SH-51	57	(46-2) HBR	KANKAKEE	558	322
CONTRACT NO. 66409					
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT					