

STANDARD BAR SPLICER ASSEMBLY

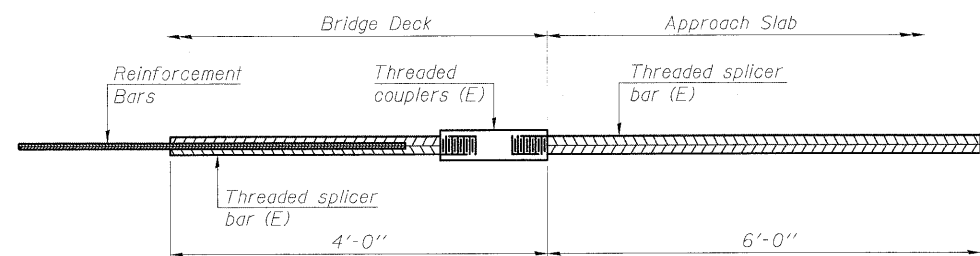
Bar size to be spliced	Minimum Lap Lengths					
	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"	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, 1.7 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	1,068	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 (Top)	#5	56	Table 4
Pier 1 (Bottom)-Footing	#5	30	Table 3
Pier 1-Crashwall	#8	8	Table 4
Pier 1 (Top)-Cap	#11	16	Table 6
Pier 1 (Bottom)-Cap	#11	16	Table 5
Pier 2 (Top)	#5	60	Table 4
Pier 2 (Bottom)-Footing	#5	30	Table 3
Pier 2-Crashwall	#8	8	Table 4
Pier 2 (Top)-Cap	#11	16	Table 6
Pier 2 (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



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

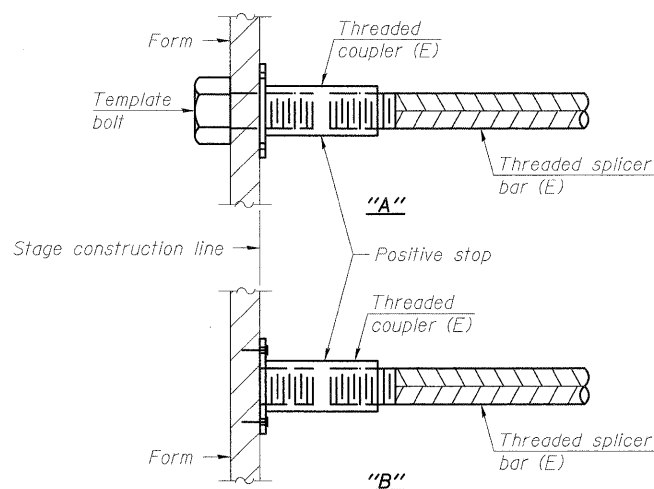
No. required = 327

DESIGNED	PMH
CHECKED	BB
DRAWN	PMH
CHECKED	BB

BSD-1

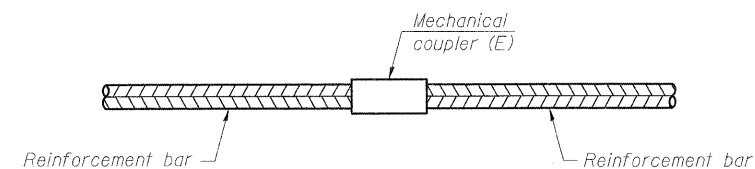
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



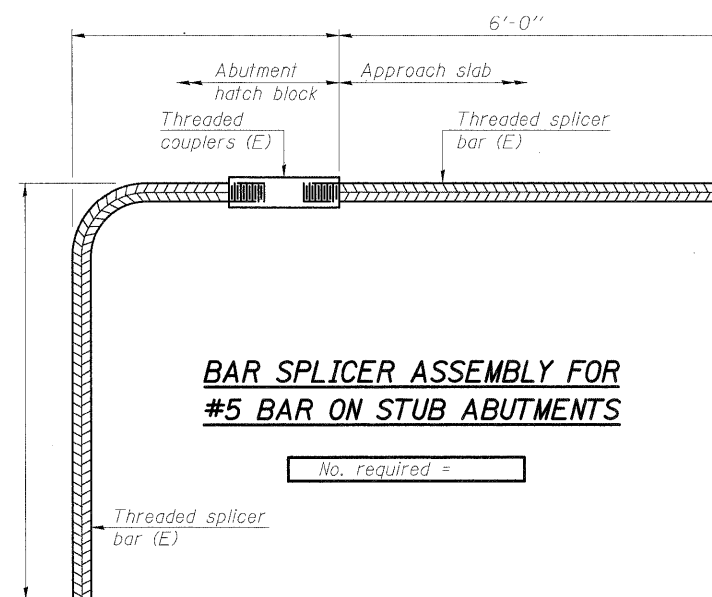
INSTALLATION AND SETTING METHODS

- "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 STUB ABUTMENTS

No. required =

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 AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 046-0146 (S.B.)
& STRUCTURE NO. 046-0147 (N.B.)**

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SHEET NO. SR-43 SHEETS SR-48	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	57	(46-2) VBR	KANKAKEE	558	370
CONTRACT NO. 66409					
FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT					