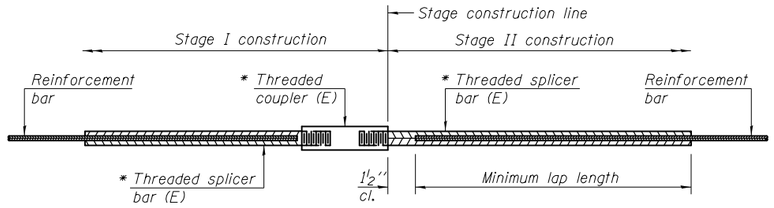


STANDARD BAR SPLICER ASSEMBLY

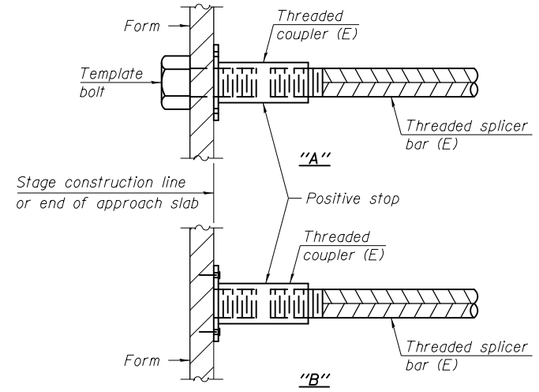
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

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 top, Class C

Threaded splicer bar length = min. lap length + 1½" + thread length

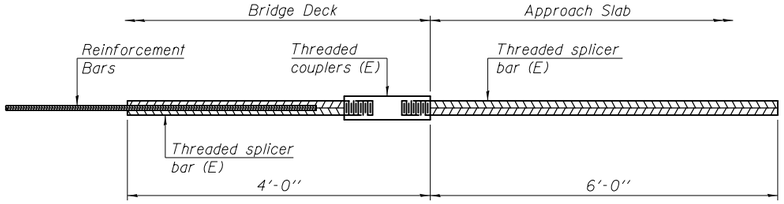
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck Slab (Top)	#5	402	5
Deck Slab (Bottom)	#5	246	3
Diaphragms	#6	16	4
Approach Slab	#4	50	4
Approach Slab	#5	92	3
Approach Footing	#5	80	3
Abutment	#7	16	6
Abutment	#5	20	6
Abutment (bottom)	#5	8	3
Pier Footing	#5	42	4
Pier Crashwall	#5	36	4
Pier Cap	#10	12	5
Pier Cap	#5	24	6
Pier Cap	#9	24	6



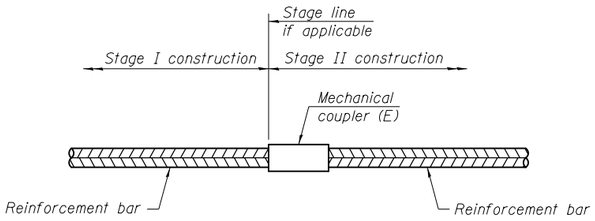
INSTALLATION AND SETTING METHODS

"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.



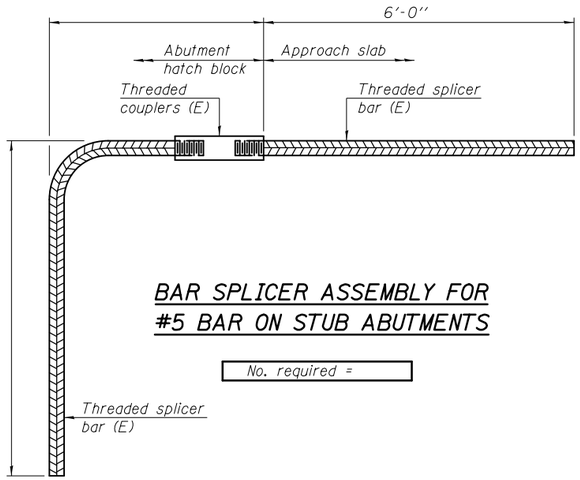
BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 104



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 approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1 1-27-12

FILE NAME = $FILE$	USER NAME = piersonbr	DESIGNED - VPT	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO. 057-0252	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FUHRMANN ENGINEERING INC. CIVIL ENGINEERS/LAND SURVEYORS		CHECKED - TF	REVISED -			74	(57-20HB-1)BR-1	MCLEAN	440	204
	PLOT SCALE =	DRAWN - JAE	REVISED -		SHEET NO. 23 OF 26 SHEETS				CONTRACT NO. 70570	
	PLOT DATE = 7/29/2013 $TIME$	CHECKED - BAS	REVISED -					ILLINOIS	FED. AID PROJECT	