

### 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 +  $1^{l_{2}}$ '' + 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 Slab (Top)	#5	448	5
Deck Slab (Bottom)	#5	275	3
Diaphragms	#6	16	4
Approach Slab	#4	50	4
Approach Slab	#5	92	3
Approach Footing	#5	80	3
Abutment	#7	20	6
Abutment	#5	8	3
Pier Footing	#5	42	4
Pier Crashwall	#5	36	4
Pier Cap	#8	12	5
Pier Cap	#5	16	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.

	Bridg	e Deck		Approach Slab	
Reinford Bars	<u>cement</u>	Threaded couplers (E)		<u>Threaded splicer</u> bar (E)	
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_	Threaded splice bar (E) 4'-(	_	_	6'-0''	

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

No. required = 110

BSD-1
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1-27-12

FILE NAME =	USER NAME = piersonbr	DESIGNED - BAS	REVISED -		BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS	F.A.I. RTE,	SECTION	COUNTY TOTAL SHEET SHEETS NO.
\$FILES\$		CHECKED - JAE	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 057–0254		57-20HB)BR-1	MCLEAN 440 260
	PLOT SCALE = PLOT DATE = 7/30/2013 \$TIME\$	DRAWN - SGM CHECKED - BAS	REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET NO. 25 OF 28 SHEETS			CONTRACT NO. 70570
	PLUT DATE = //30/2013 \$TIME\$	CHECKED - BAS	REVISED -		SHEET NU. 25 UF 28 SHEETS		ILLINOIS FED. AI	D PROJECT



# STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies 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.