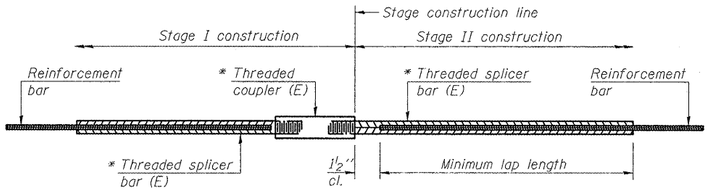


STANDARD BAR SPLICER ASSEMBLY

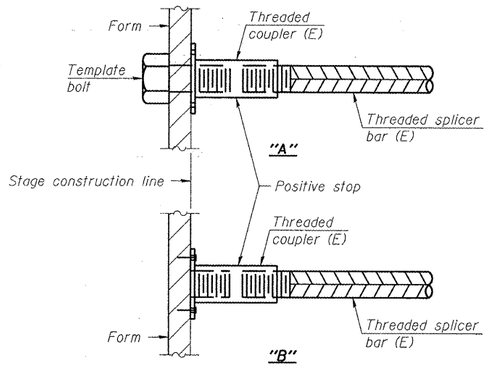
Minimum Lap Lengths					
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-3"
5	1'-9"	2'-5"	2'-7"	2'-11"	2'-10"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-4"
7	2'-9"	3'-10"	4'-2"	4'-8"	4'-6"
8	3'-8"	5'-1"	5'-5"	6'-2"	5'-10"
9	4'-7"	6'-5"	6'-10"	7'-9"	7'-5"

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, Top bar lap, Class B

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

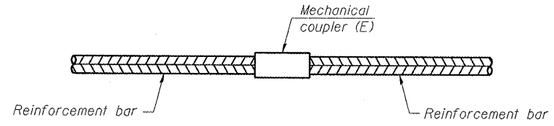
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck	#5	616	Table 3
Diaphragm	#6	16	Table 5
Appr. Slab	#4	50	Table 3
Appr. Slab	#5	92	Table 3
Appr. Slab Foot.	#5	80	Table 3
North Abut.	#7	10	Table 4
South Abut.	#7	10	Table 4
Pier 1	#5	24	Table 4
Pier 1	#7	10	Table 4
Pier 2	#5	28	Table 4
Pier 2	#7	10	Table 4
Pier 3	#5	28	Table 4
Pier 3	#7	10	Table 4
Pier 4	#5	24	Table 4
Pier 4	#7	10	Table 4



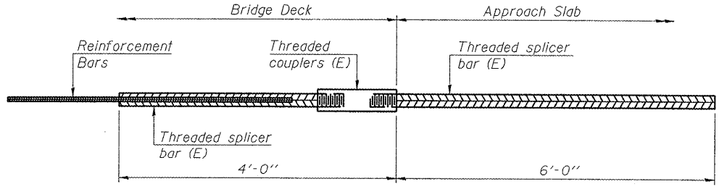
INSTALLATION AND SETTING METHODS

"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.



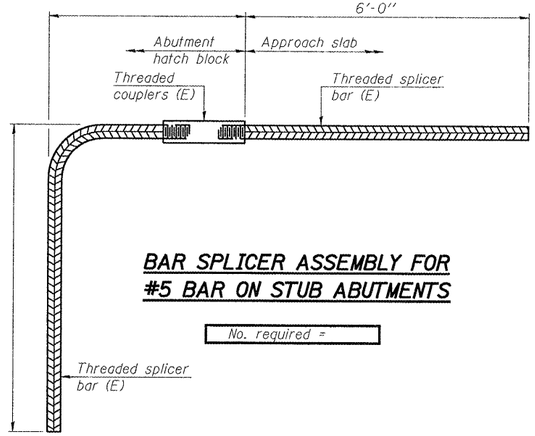
STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
Pier 1	#5	36
Pier 2	#5	36
Pier 3	#5	36
Pier 4	#5	36



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

No. required = 76



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.

HURST-ROSCHE ENGINEERS, INC.
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(217)532-3959 FAX (217)532-3212
HR JOB # 190-1785

HR HURST-ROSCHE ENGINEERS, INC.

BSD-1 7-1-10

FILE NAME =	USER NAME =	DESIGNED - JSP	REVISED -
		CHECKED - CJC	REVISED -
	PLOT SCALE =	DRAWN - UJ	REVISED -
	PLOT DATE =	CHECKED - RVB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 036-0071
SHEET NO. 25 OF 27 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
522	(14-1-B1) BR	HENDERSON	70	38
		CONTRACT NO. 68298		
		ILLINOIS FED. AID PROJECT		

...\0360071-68298-025-bar splicer assembly details.dgn 2/16/2011 11:09:16 AM