

STANDARD BAR SPLICER ASSEMBLY

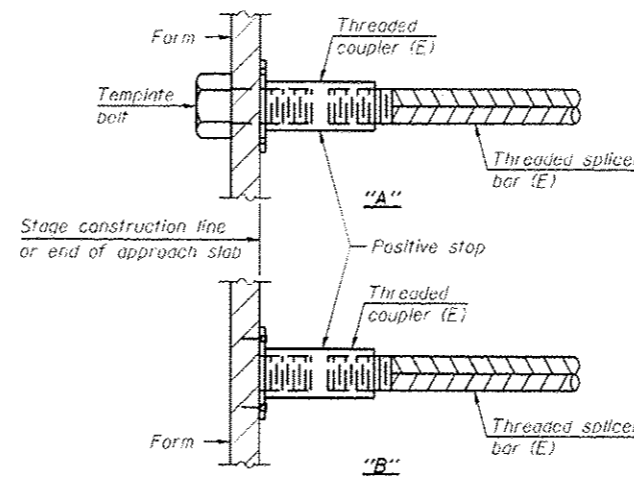
Bar size to be spliced	Minimum Lap Lengths					
	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6
3, 4	1'-5"	1'-11"	2'-1"	2'-4"	2'-7"	2'-11"
5	1'-9"	2'-5"	2'-7"	2'-11"	3'-3"	3'-8"
6	2'-1"	2'-11"	3'-1"	3'-6"	3'-10"	4'-5"
7	2'-9"	3'-10"	4'-2"	4'-8"	5'-2"	5'-10"
8	3'-8"	5'-1"	5'-5"	6'-2"	6'-9"	7'-8"
9	4'-7"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

- Table 1: Black bar, O.B Class C
- Table 2: Black bar, Top bar lap, O.B Class C
- Table 3: Epoxy bar, O.B Class C
- Table 4: Epoxy bar, Top bar lap, O.B Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

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

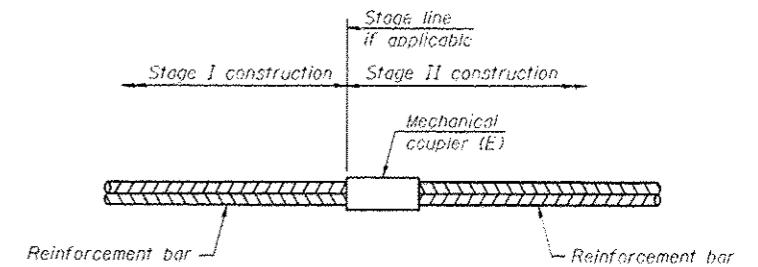
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Deck S.B.	#5	1700	3
Deck N.B.	#5	1700	3
West End of Deck S.B.	#7	5	5
East End of Deck S.B.	#7	1	5
West End of Deck N.B.	#7	5	5
East End of Deck N.B.	#7	1	5
West Abutment S.B. - Hatch Block	#6	4	3
East Abutment S.B. - Hatch Block	#6	4	3
West Abutment N.B. - Hatch Block	#6	4	3
East Abutment N.B. - Hatch Block	#6	4	3
West Abutment S.B. - Backwall	#5	14	3
East Abutment S.B. - Backwall	#5	12	3
West Abutment N.B. - Backwall	#5	14	3
East Abutment N.B. - Backwall	#5	14	3
East Abutment S.B. - Corbel	#6	2	3
East Abutment N.B. - Corbel	#6	2	3
Approach Slab Footing - Top/Bottom	#5	160	3
Approach Slab - Top	#4	100	3
Approach Slab - Bottom	#5	184	3



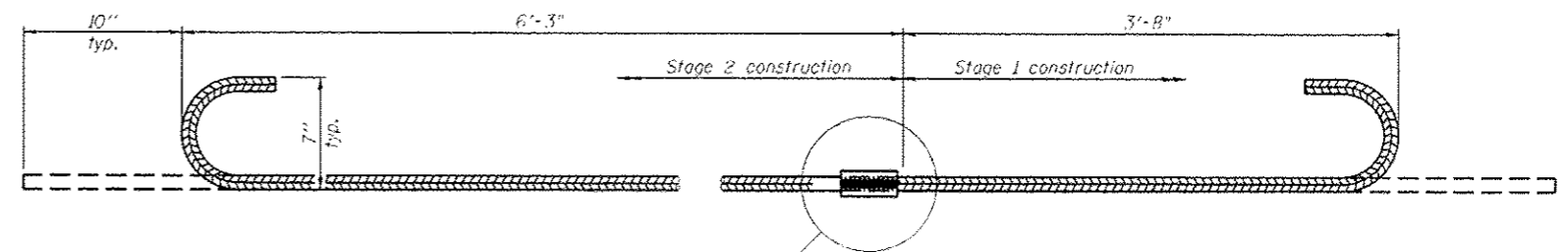
INSTALLATION AND SETTING METHODS

"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

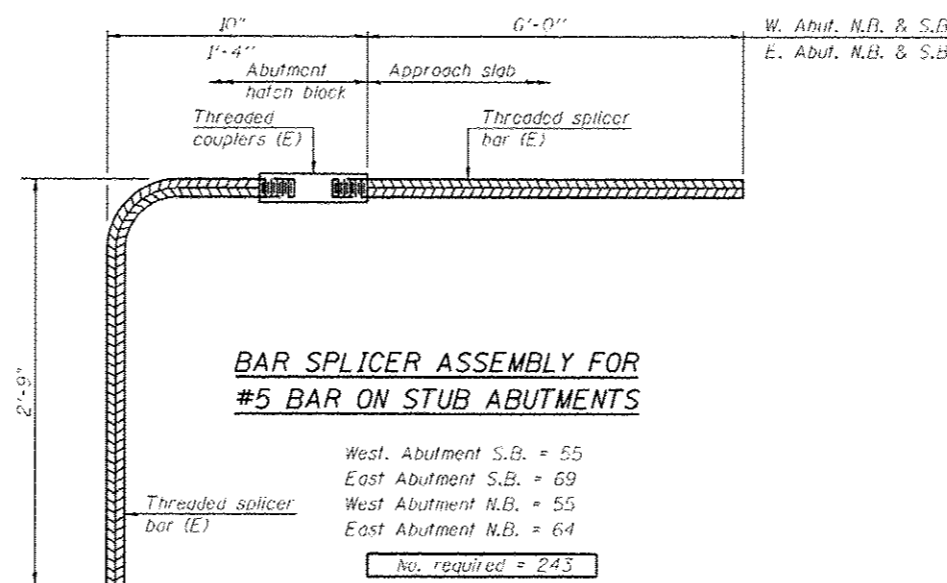
Location	Bar size	No. assemblies required



#7 BAR SPLICER ASSEMBLY FOR EDGE BEAMS AT STAGE CONSTRUCTION JOINT

End of Deck S.B. = 3
 End of Deck N.B. = 3
No. required = 6

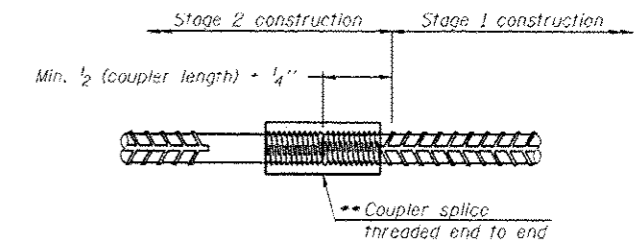
** The bar splicer assembly shall allow completion of the splice without turning of the hook bars. The stage 2 splice bar shall be threaded such that the entire coupler can be threaded onto the splice bar.



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

West. Abutment S.B. = 55
 East Abutment S.B. = 69
 West Abutment N.B. = 55
 East Abutment N.B. = 64

No. required = 243



DETAIL A

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

8-31-12

REV. SHEET 6-3-13



JOB # 2265.2
 FILE # 0540660.0061-72E11-52-Splicer.dgn
 DATE # 5/14/2013

DESIGNED - AAN
 CHECKED - MDC
 DRAWN - TSH
 CHECKED - MDC

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
 STRUCTURE NO. 054-0060 (SB) & STRUCTURE NO. 054-0061 (NB)

SHEET NO. 52 OF 53 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	D6 LOGAN CO BR 2011-1	LOGAN	429	282
CONTRACT NO. 72E11				ILLINOIS FED. AID PROJECT