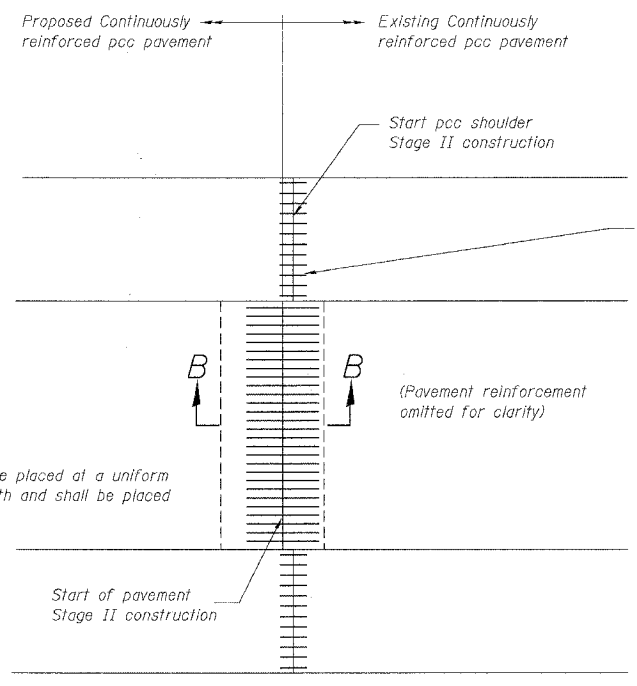


PLAN
(STAGE I CONSTRUCTION)



PLAN
(STAGE II CONSTRUCTION)

NOTES

Bar splicer assemblies shall be of an IDOT approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Bar splicers shall be of the "coupler" type, and shall not have flanges.

Splicer rods shall be of minimum 400 MPa yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- Minimum Capacity = $1.25 \times 10^{-3} \times f_y \times A_t$ (Tension in kN)
- Minimum *Pull-out Strength = $1.25 \times 10^{-3} \times f_s \text{ allow} \times A_t$ (Tension in kN)

Where f_y = Yield strength of lapped reinforcement bars in MPa.
 $f_s \text{ allow}$ = Allowable tensile stress in lapped reinforcement bars in MPa (Service Load)
 A_t = Tensile stress area of lapped reinforcement bars (mm²).
 * = 28 day concrete

BAR SPLICER ASSEMBLIES			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kN (kips) - tension	Min. Pull-Out Strength kN (kips) - tension
#15	610 mm	100	40
#20	790 mm	150	60
#22	1.04 m	200	80
#25	1.37 m	250	100
#30	1.75 m	350	140

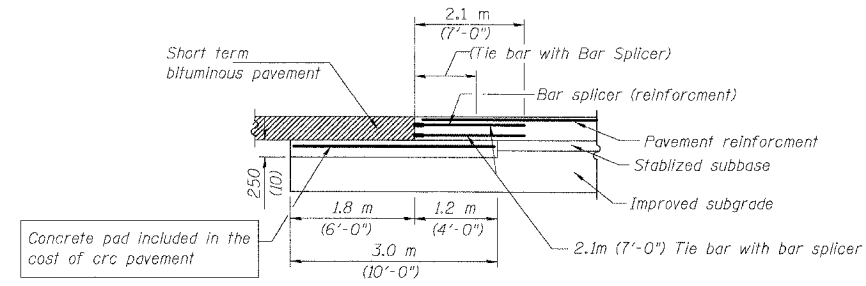
Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies for Stage I construction will be measured and paid for at the contract unit price each for "BAR SPLICERS, SPECIAL."

Stage I work will be paid for as BAR SPLICERS, SPECIAL. The concrete pad and reinforcement shall not be paid for separately but included in the cost of CONTINUOUSLY REINFORCED PORTLAND CEMENT PAVEMENT, of the thickness specified.

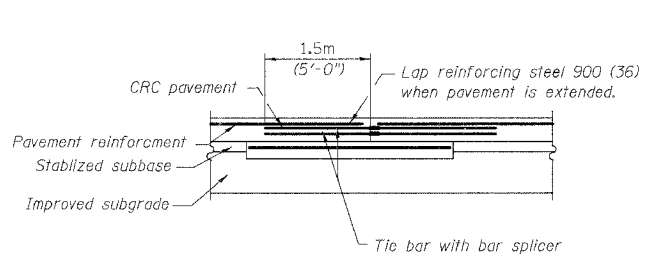
Stage II work includes obtaining, transporting the bar splicers for the second portion of the assembly from the IDOT Bishop Ford Maintenance facility (708) 331-4339, and the installation of the bar splicers, payment for this work will be included in the cost of CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT of the thickness specified. Tie bars to be drilled and grouted shall not be paid for separately but included in the cost of PORTLAND CEMENT CONCRETE SHOULDERS, of the thickness specified.

GENERAL NOTES

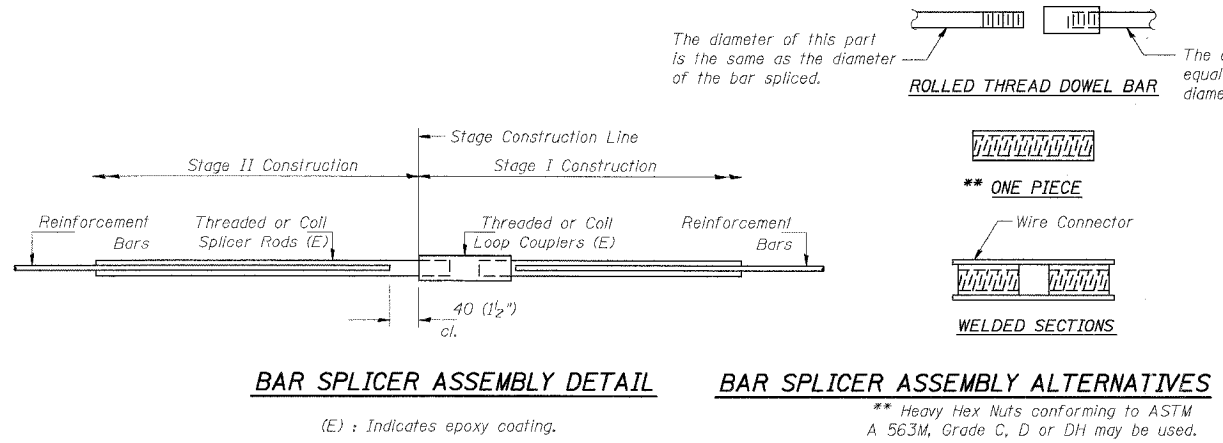
- See Standard 421001 for details of CRC pavement reinforcement.
 - See Standards 420001 and 420401 for details of joints and tie bars not shown.
 - See Standards 421201 and 421206 for details of concrete pad and transverse terminal joint.
 - See Standard 483001 for pcc shoulder details.
- All dimensions are in millimeters (inches) unless otherwise noted.



LONG TERM TRANSVERSE CONSTRUCTION JOINT SECTION A-A
(STAGE I CONSTRUCTION)

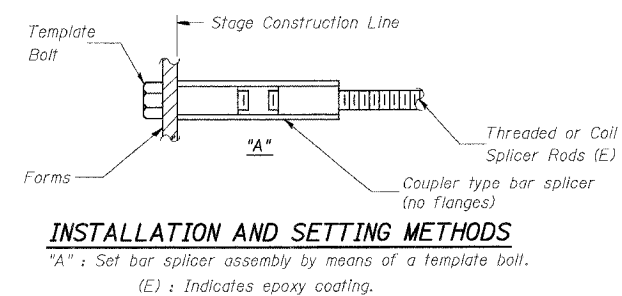


LONG TERM TRANSVERSE CONSTRUCTION JOINT SECTION B-B
(STAGE II CONSTRUCTION)



BAR SPLICER ASSEMBLY DETAIL

BAR SPLICER ASSEMBLY ALTERNATIVES



INSTALLATION AND SETTING METHODS

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. ROUTE 80/94 (KINGERY EXPRESSWAY)
KFA	12/18/03	
MDV	1/5/04	
		LONG TERM TRANSVERSE CONSTRUCTION JOINT DETAILS
SCALE NONE	DRAWN BY ACE/CAD	CHECKED BY
DATE 06/03		

AMERICAN CONSULTING ENGINEERS

11/06/03/ADEN
 9-18-2001, 10/03/27
 2 2 9 35 18 3 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63
 BAUTSKU
 11/06/03/ADEN