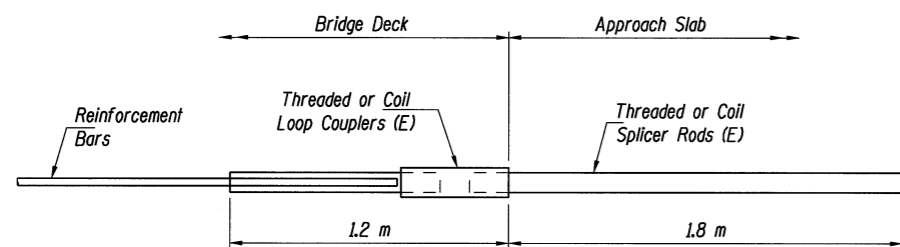


BAR SPLICER ASSEMBLY DETAIL

Bar Size	No. Assemblies Required	Location
#15	986	Bridge Deck (Stage Construction Line)
#15	24	Pier Caps (Stage Construction Line)
#15	32	Pier Stems (Stage Construction Line)
#20	32	Abutment Diaphragms (Stage Construction Line)
#25	36	Pier Footings (Stage Construction Line)
#25	40	Abutment Caps (Stage Construction Line)
#30	32	Pier Caps (Stage Construction Line)
#30	16	Pier Stems (Stage Construction Line)



**INTEGRAL ABUTMENT
BAR SPLICER ASSEMBLY DETAIL
FOR #15 BAR**

Minimum Capacity = 100 kN-tension
Minimum Pull-out Strength = 53 kN-tension
No. Required = 244

The diameter of this part is the same as the diameter of the bar spliced.



ROLLED THREAD DOWEL BAR



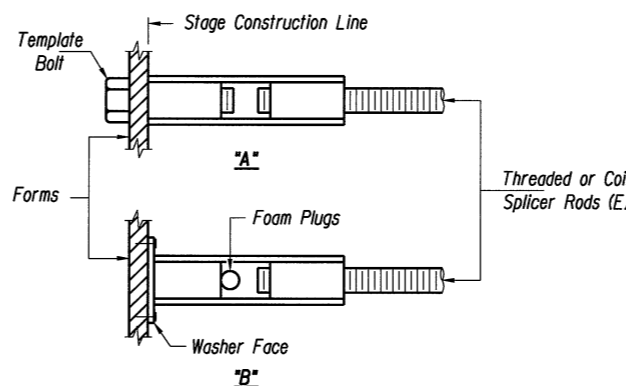
ONE PIECE



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563M, Grade C, D or DH may be used.



INSTALLATION & SETTING METHODS

"A" : Set bar splicer assembly by means of template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.

NOTES

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

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 rods.

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:

- ① Minimum Capacity (Tension in kN) = $1.25 \times f_y \times A_1 \times 10^{-3}$
- ② Minimum * Pull-out Strength (Tension in kN) = $0.66 \times f_y \times A_1 \times 10^{-3}$

Where f_y = Yield strength of lapped reinforcement bars in MPa.

A_1 = Tensile stress area of lapped reinforcement bars (mm^2).

* = 28 day concrete.

BAR SPLICER ASSEMBLIES

Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kN - tension	Min. Pull-Out Strength kN - tension
#15	660 mm	100	53
#20	790 mm	150	79
#25	1.04 m	250	137
#30	1.37 m	350	185

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."
 All dimensions are in millimeters (mm) except as noted.

BAR SPLICER ASSEMBLY DETAILS
 F.A.I. 55 OVER LINDEN STREET
 SECTION (57-4HB-3)BR
 STRUCTURE NO. 057-0235 (N.B.) & 057-0236 (S.B.)
 McLEAN COUNTY
 STATION 38+544.044

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FIG. NO.

94S2063

DATE

03/26/04

LAYOUT G.L.C. 11/5/97
 DRAWN D.A.M. 11/5/97
 REVIEWED ***/11/97
 \$TIME\$ 8/16/2009
 \$FILE\$