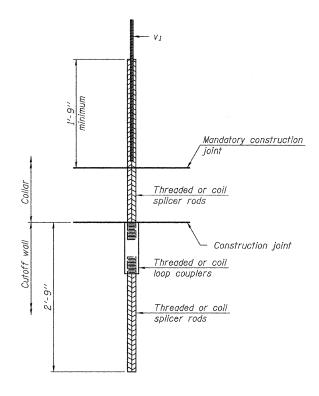
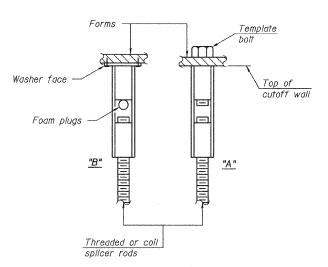


BAR SPLICER ASSEMBLY ALTERNATIVES

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



FOR BOX CULVERT END SECTIONS



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.

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 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and tied to the splicer rods or dowel 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 (Tension in kips) = 1.25 x fy x A_t

Minimum *Pull-out Strength = $0.66 \times fy \times A_t$

Where fy = Yield strength of lapped reinforcement bars in ksi.

= 28 day concrete

Bar Splicer for #5 bar Min. Capacity = 23.0 kips - tension Min. Pull-out Strength = 12.3 kips - tension No. Required = 24

> BAR SPLICER ASSEMBLY DETAILS IL. RTE. 84 OVER UNNAMED CREEK F.A.S. RTE. 5857 - SEC. 1R-T ROCK ISLAND COUNTY STATION 68+99.62

COUNTY TOTAL SHEET NO. DESIGNED - BAN EXAMINED SECTION **BOX CULVERT END SECTION &** STATE OF ILLINOIS CHECKED ENGINEER OF BRIDGE DESIGN ROCK ISLAND 25 16 CONTRACT NO. 64E31 1R-T **GABION WALL DETAILS DEPARTMENT OF TRANSPORTATION** DRAWN PASSED SHEET NO. 5 OF 5 SHEETS CHECKED TILINOIS FED. AID PROJECT ENGINEER OF BRIDGES AND STRUCTURES