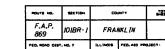
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



SHEET NO. 15 28 15 SHEETS

Contract #78024

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. 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:

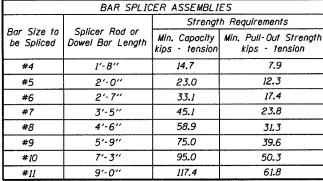
Minimum Capacity (Tension in kips) = $1.25 \times fy \times A_1$

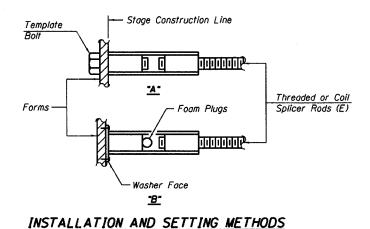
Minimum *Pull-out Strength = 0.66 x fy x A; (Tension in kips)

Where fy = Yield strength of lapped reinforcement bars in ksi. A_t = Tensile stress area of lapped reinforcement bars.

* = 28 day concrete

BAR SPLICER ASSEMBLIES





BAR SPLICER ASSEMBLY ALTERNATIVES

- The diameter of this part is

equal or larger than the

diameter of bar spliced.

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

WELDED SECTIONS

1111111

ROLLED THREAD DOWEL BAR

मन्याना विद्यालय

ONE PIECE

Wire Connector

mm

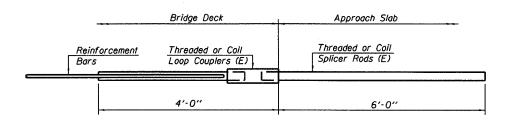
The diameter of this part

is the same as the diameter of the bar spliced.

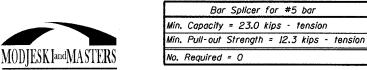
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.

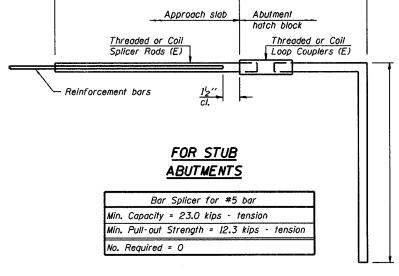
6'-0"

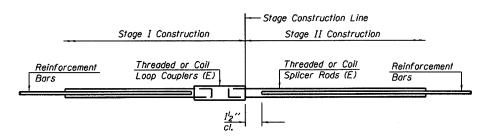
"A": Set bar splicer assembly by means of a template bolt.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS







STANDARD

Bar Size	No. Assemblies Required	Location
#4	84	Wearing Surface
#5	12	Concrete Structures

BAR SPLICER ASSEMBLY DETAILS ILL. ROUTE 34 OVER EWING CREEK F.A.P. ROUTE 869 SECTION 101BR-1 FRANKLIN COUNTY STATION 362+35.00 STRUCTURE NO. 028-0047

Consulting Engineers DESIGNED RLM CHECKED MEL DRAWN AEC CHECKED RLM

BSD-1

11-1-06