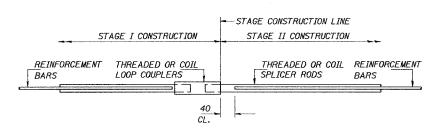
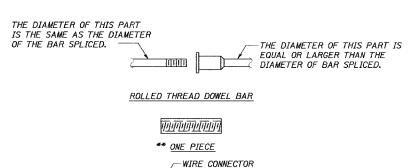
			U	MIKACI	NU. 0000
RTE.	SECTION	C	YTMUC	TOTAL SHEETS	SHEET NO
619	120 BR-1	PUTNAM		28	18
FED. ROAD DIST. NO. ILI		ILLINOIS	FED. AID PROJECT-		

SHEET B-5 OF B-8



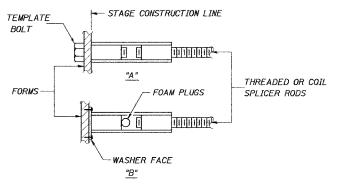
## BAR SPLICER ASSEMBLY DETAIL

BAR SIZE	NO. ASSEMBLIES REQUIRED	LOCATION
#16	72	CULVERT TOP & BOTTOM SLAB
#19	24	CULVERT WALLS



## WELDED SECTIONS BAR SPLICER ASSEMBLY ALTERNATIVES

\*\* HEAVY HEX NUTS CONFORMING TO ASTM A 563M, GRADE C, D OR DH MAY BE USED.



## 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.

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 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:

- VAR SPLICER ASSEMBLE, S...

  MINIMUM CAPACITY

  (TENSION IN KN) = 1.25 x 10<sup>-3</sup>x Fy x A;

  MINIMUM \*PULL-OUT STRENGTH

  MINIMUM \*PULL-OUT STRENGTH

  TO STRENGTH

  MARS

WHERE FY = YIELD STRENGTH OF LAPPED REINFORCEMENT BARS IN MPa.

FS ALLOW= ALLOWABLE TENSILE STRESS IN LAPPED REINFORCEMENT BARS IN MPa (SERVICE LOAD)

A<sub>T</sub> = TENSILE STRESS AREA OF LAPPED REINFORCEMENT BARS (mm<sup>2</sup>).

\* = 28 DAY CONCRETE

BAR SPLICER ASSEMBLIES								
DAD 6175 TO	SPLICER ROD OR DOWEL BAR LENGTH	STRENGTH REQUIREMENTS						
BAR SIZE TO BE SPLICED		MIN. CAPACITY kN - TENSION	MIN. PULL-OUT STRENGTH kN - TENSION					
#16	610 mm	100	40					
#19	790 mm	150	60					

BAR SPLICER ASSEMBLIES SHALL BE ACCORDING TO SECTION 508 OF THE STANDARD SPECIFICATIONS, AND PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "BAR SPLICERS."

EXCEPT AS NOTED. THE FURNISHING AND INSTALLATION OF BAR SPLICER ASSEMBLIES WILL BE MEASURED ALL DIMENSIONS ARE IN MILLIMETERS (mm) EXCEPT AS NOTED.

> ILLINOIS DEPARTMENT OF TRANSPORTATION BAR SPLICER ASSEMBLY DETAILS ILLINOIS ROUTE 71 OVER AN INTERNITTENT STREAM F.A.P. RT. 619 - SECTION 120 BR-1 PUTHAM COUNTY STATION 9-268-500 STRUCTURE No. 078-2008 DATE NAME DESIGNED BY: MV DRAWN BY: KDS
> CHECKED BY: SG CHECKED BY: MV TRANSYSTEMS OF PORCING SOFTS SORT SAFE LOSS CORPORATION