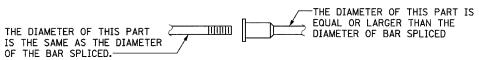




SHEET NO. \$42 OF SHEETS \$47



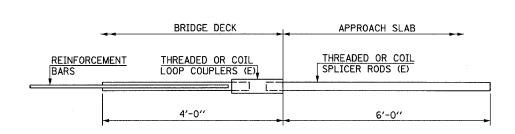
ROLLED THREAD DOWEL BAR

\*\* ONE PIECE -WIRE CONNECTOR.

WELDED SECTIONS

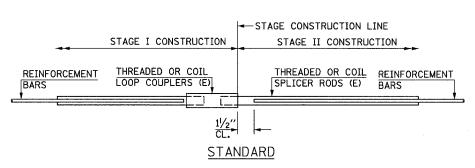
### BAR SPLICER ASSEMBLY ALTERNATIVES

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



### FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar								
MIN. CAPACITY = 23.0 KIPS - TENSION								
MIN. PUL	L-OUT	STRENC	STH =	9.2	KIPS	-	TEN	SION
NO. REQUIRED =								

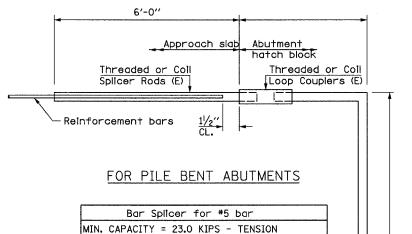


_	IAR IZE		SEMBLIES UIRED		ATION
#	ŧ6		8		R (SB)
#	‡5	4	8	APPR.	SLAB (SI

## -Stage Construction Line Template <u>"A"</u> <u>Threaded or Coll</u> Forms-Foam Plugs Splicer Rods (E) Washer Face <u>"B"</u>

#### 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. (E): Indicates epoxy coating.



MIN. PULL-OUT STRENGTH = 9.2 KIPS - TENSION

NO. REQUIRED =

MINIMUM CAPACITY (TENSION IN KIPS) = 1.25 x fy x A+ MINIMUM \*PULL-OUT STRENGTH = 1.25 x fs ALLOW x At WHERE FY = YIELD STRENGTH OF LAPPED REINFORCEMENT BARS IN KSI FSALLOW = ALLOWABLE TENSILE STRESS IN LAPPED REINFORCEMENT BARS IN KSI (SERVICE LOAD).

BAR SPLICER ASSEMBLIES						
Bar Size to	Splicer Rod or	Strength Requirements				
be Spliced	Dowel Bar Length	Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension			
#4	1′-8′′	14.7	5.9			
#5	2'-0''	23.0	9.2			
#6	2′-7′′	33.1	13.3			
#7	3′-5′′	45.1	18.0			
#8	4'-6''	58.9	23.6			
#9	5′-9′′	75.0	30.0			
#10	7′-3′′	95.0	38.0			
*11	9'-0''	117.4	46.8			

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."

> BAR SPLICER ASSEMBLY DETAILS N.W. TOLLWAY OVER IL 173 (F.A.P. ROUTE 303) SECTION 129K WINNEBAGO COUNTY STATION 443+73.62 S.N. 101-9963 (SB) & 101-9964 (NB)

> TOLLWAY S.N. 703 (NB) & 704 (SB)

DD PARSONS BRINCKER BRINCKERHOFF

DESIGNED AH

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CHECKED

# 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:

= TENSILE STRESS AREA OF LAPPED REINFORCEMENT BARS \* = 28 DAY CONCRETE.

NOTES