STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





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) : Indicatés epoxy coating,

6'-0"

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:

(Lension in Nipo) Minimum *Pull-out Strength = 0.66 x fy x A_t 2 (Tension in kips)

	BAR SPLIC	ER ASSEMBLI	ES		
		Strength Requirements			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length		Min. Pull-Out Strength kips - tension		
#4	1'-8''	14.7	7.9		
#5	2'-0''	23.0	12.3		
#6	2'-7''	33.1	17.4		
#7	3'-5''	45.1	23.8		
#8	4'-6''	58.9	31.3		
#9	5′-9″	75.0	39.6		
#10	7'-3''	95.0	50.3		
#11	9'-0''	117.4	61.8		



The diameter of this part is

equal or larger than the

diameter of bar spliced.

ROLLED THREAD DOWEL BAR

** ONE PIECE

WELDED SECTIONS

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

<u>in in in in</u>

— Wire Connector

The diameter of this part

of the bar spliced.

is the same as the diameter

ROUTE ND.	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.	SHEET NO. 5
F.A.P. 17	157-2	CARROLL		71	42	6 SHEETS
FEO. ROAD DIST	ND. 7	ILLINOIS	FED. AID PRO	JECT-		

Contract # 64C35

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, Bar splicer assemblies shall be epoxy coated according to the requirements for

Where fy = Yield strength of lapped reinforcement bars in ksi. A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

onstruction		
led or Coil Couplers (E)	Threaded or Coil Reinforcement Splicer Rods (E) Bars	
	<u>1/2 ~ </u>	
walls top sla	cation stage line © stage line b © stage line	
	BAR SPLICER ASSEMBLY DETAILS IL ROUTE 64/US ROUTE 52 OVER UNNAMED TRIBUTARY TO STRADDLE CREEK FAP 17 - SECTION 15T-2 CARROLL COUNTY STATION 1240+74 STRUCTURE NO. 008-1098	