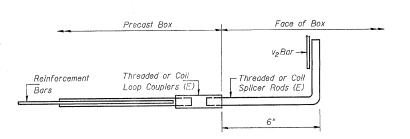
| FAP-1 | SECTION | COUNTY | TOTAL SHEETS | NO. | FAP734 | 98-00480-00-BR | WINNEBAGO | 62 | 34 | FED. ROAD DIST. NO. _ ILLINOIS FED. AID PROJECT



SPLICER DETAIL

- The diameter of this part is equal or larger than the diameter of bar spliced. The diameter of this part is the same as the diameter of the bar spliced. ROLLED THREAD DOWEL BAR

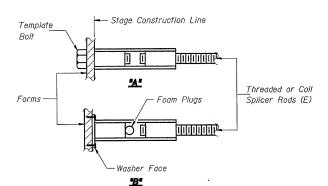
**ONE_PIECE Wire Connector



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

WELDED SECTIONS BAR SPLICER ASSEMBLY ALTERNATIVES

Bar Size	No. Assemblies Required	Location ·
#4	8	Bottom of Bottom Slab



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.

NOTES

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and fied to the splicer rods or dowel bars.

reinforcement bars. Other systems of similar design may be submitted to the Engineer for approval. Approval

of the Lighteet 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 A₁

2 (Tension in kips)

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					
		Strength Requirements			
Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension		
#4	1'-6"	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		

except as noted. The costs for furnishing and installation of bar splicer assemblies shall be included in the contract unit price per FOOT for PRECAST CONCRETE BOX CULVERT 11' X 11'

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.

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

(Tension in Kips) Minimum *Pull-out Strength = 1.25 x fs_{allow} x A_t

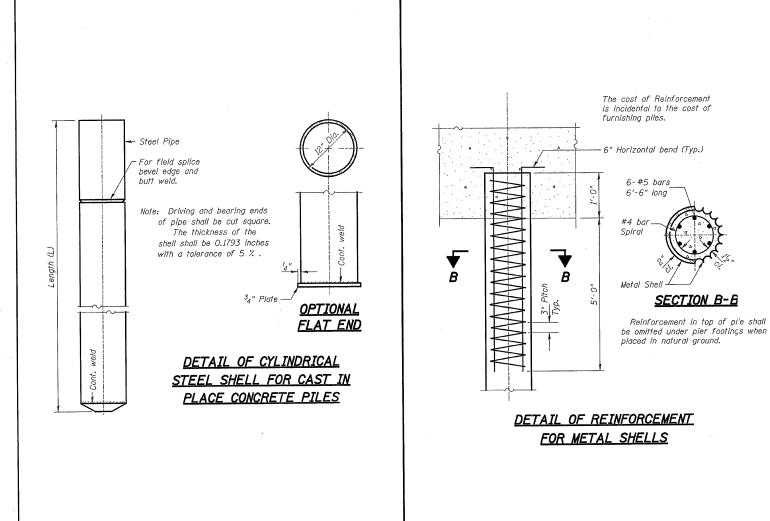
A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications,

BAR SPLICER ASSEMBLY DETAILS & PILE DETAILS KISHWAUKEE STREET OVER KEITH CREEK STATION 423+30 (S.N. 101-6160) SECTION 98-00480-00-BR ROCKFORD, ILLINOIS WHA # 1158D03

PRECAST BOX CULVERTS

Bar Size	No. Assemblies Required	Location ·
#4	8	Bottom of Bottom Slab



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