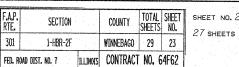
The diameter of this part

of the bar spliced.

is the same as the diameter

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION



FED. ROAD DIST. NO. 7

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<u>NOTES</u>

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 x fy x A_t

Minimum *Pull-out Strength = $0.66 \times fy \times A_t$

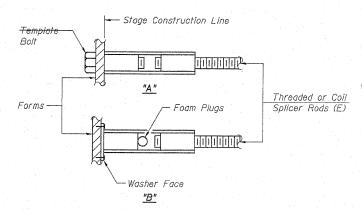
Where fy = Yield strength of lapped reinforcement bars in ksl. A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

9'-0"

#11

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'-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		

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INSTALLATION AND SETTING METHODS

The diameter of this part is

equal or larger than the

diameter of bar spliced.

"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.

Bridge Deck Approach Slab Reinforcement Threaded or Coil Threaded or Còil Splicer Rods (E) Bars Loop Couplers (E) 4'-0"

ROLLED THREAD DOWEL BAR

** ONE PIECE

WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM

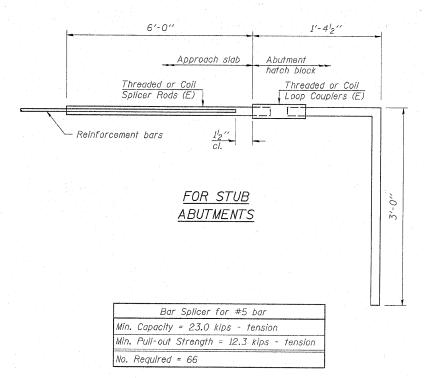
A 563, Grade C, D or DH may be used.

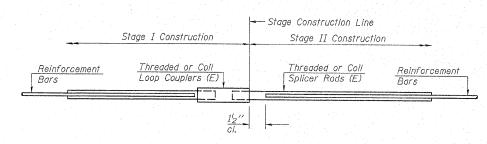
- Wire Connector

FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

	В	ır Spli	icer fo	r #5	bar	
Min.	Capacit	y = 2	3.0 ki,	DS - 1	tension	
Min.	Pull-ou.	Stre.	ngth =	12.3	kips -	tension
No.	Required	1 =				

DESIGNED	GUN / OAO
CHECKED	F.CO
DRAWN	TCS / GUN
CHECKED	FCO.





STANDARD

Bar Size	No. Assemblies Required	Location	

FOR INFORMATION ONLY BAR SPLICER ASSEMBLY DETAILS MERIDIAN ROAD OVER US 20 F.A.P. 301 (US 20) - SEC. 1-HBR-2F WINNEBAGO COUNTY STATION 100+00





