



FOR BOX CULVERT END SECTIONS

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DESIGNED - DAVID L. GREIFZU	EXAMINED Themes	Norachel:	DATE - August 1, 2011	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BAR SPLICER ASSEMBLY DETAILS	F.A.P. RTE	SECTION	COUNTY	SHEETS	SHEET NO.
CHECKED - MICHAEL D. ROLAPE	ENGINGER OF I	ENGINGER OF BRIDGE DESIGN			STRUCTURE NO. 018–8311	828	(108,109,110)RS-3	CUMBERLAND	56	43
DRAWN - MICHAEL B. MOSSMAN	PASSED & Carl							CONTRACT	T NO. 7	4252
CHECKED - D.L.G. / M.D.R.	D - D.L.G. / M.D.R. ENGINEER OF BRIDGES AND STRUCTURES			SHEET NO. 5 OF 6 SHEETS	ILLINOIS FED. AID PROJECT					

<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. 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

(Tension in kips) Minimum *Pull-out Strength - = 0.66 x fy x A_t Where fy = Yield strength of lapped reinforcement bars in ksi. A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

Bar Splicer for #5 bar
apacity = 23.0 kips - tension
ull-out Strength = 12.3 kips - tension
equired = 20