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		COI	VT	RAC	CT	NO. 9	5573
F.A RTE.	SECTION		COUNTY		TOTAL SHEETS	SHEET NO.	
338	01-16117-00		Shebly		15	6	
STA.	TA. TO STA.						
FFD, RO	AD DIST. NO.	TITN	OIS	FFD.	AID	PROJECT	٢

NOTES

Hollow structural steel tubing shall conform to the requirements of ASTM designation A 500 Grade B Structural Steel Tubing and shall meet the longitudinal CVN requirements of 15 ft-lbs at 0° F.

All other steel shapes and plates shall conform to the requirements of AASHTO M 270 Grade 36 except posts and angles shall conform to AASHTO M 270, Grade 50.

Bolts, cap screws, and nuts shall conform to the requirements of ASTM designation A 307 except for high strength bolts, nuts and washers noted which shall conform to AASHTO M 164.

All bolts, nuts, cap screws, washers and lock washers shall be galvanized according to AASHTO M 232.

All posts, railing, rail splices, anchor devices and angles shall be galvanized after shop fabrication according to AASHTO M 111 and ASTM A 385. Galvanized rail shall not be painted.

Railing shall be according to Section 509 of the Standard Specifications, except as noted, and will be paid for at the contract unit price per foot for STEEL RAILING, TYPE S-1.

All field drilled holes shall be coated with an approved zinc rich paint before erection.

The lower portion of the post flange in contact with concrete shall receive two coats of asphalt paint conforming to Section 1060.07 Type II or place by fabric bearing pad between the post and concrete.

The 3_4 ' ϕ high strength bolts used to connect the 6 x 4 x 3_4 angles to the post shall be tightened according to Article 505.04(f)(2) of the Standard Specifications. The 1' ϕ high strength bolts connecting the angles to the concrete shall be tightened to a snug fit and given an additional 1_8 turn. The 5_8 ' ϕ cap screws in bottom of posts shall be tightened to a snug fit only.

For multi-span bridges, sufficient $\frac{1}{4}$ x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with STEEL RAILING, TYPE S-1.

$1_8^{\prime\prime}$ x 2_2^{\prime} tubing Holes in tu	Locknut $1_{B''} \times 2_{2''}$ Slotted Holes in tubing RAIL SPLICE CONNECTION								
AT EXPANSION JT.									
Solid flux orming to Steel. Steel. Tubing $\frac{3}{16}$ $\frac{1}{12}$									
3,									
to	ILLINOIS DEPARTMENT OF TRANSPORTATION TYPE S-1 STEEL RAILING								
REVISIONS NAME DATE	TR 338 TRIBUTARY RICHLAND CREEK								
	SECTION 01-16117-00-BR SHELBY COUNTY								
	STA 14+90								
	STRUCTURE NO. 087-3531								
	SCALE: NTS DRAWN BY Baker DATE CHECKED BY WAB								