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NOTES	
STRUCTURAL CONCRETE INSE	
ERT ASSEMBLY SHALL CONSIST OF T	ENTS OF AASHTO M169, GRADE 12L14 AND
NGTH OF THREADS OF $1^{1}/_{2}$ ".	LINTS OF AASITTO MIDS, ONADE IZEIA AND
/ANIZED.(AT THE CONTRACTOR'S OP NATE FOR THE ⅔''Ø X 15%'' GALVA	THE REQUIREMENTS OF ASTM A307.BOLT TION, STAINLESS STEEL BOLT AND WASHER NIZED BOLT AND WASHER.THEY SHALL STM A307. THE USE OF THIS ALTERNATE
	IL IS THE MINIMUM ALLOWABLE SIZE AND AS AN OPTION, A 7/16'' Ø WIRE STRUT WITH
NOTES METAL RAIL TO END BLOCK CONN	IECTION
CONNECTION SHALL CONSIST OF TH	
	HALL BE GALVANIZED AFTER FABRICATION.
INSERT SHALL HAVE A WORKING LOA	AD SHEAR CAPACITY OF 4800 LBS. THE
	SHER IN PLACE.THE ¾''∅ X 15⁄8'' BOLT
ACHMENT TO ANGLE SHALL CONFORM SCREWS TO BE CENTERED IN SLOTS	TO THE REQUIREMENTS OF ASTM F593 ALLOY S AT 60°F.
EE METAL RAIL SHEET).	
QUIRED) TO BE GALVANIZED.	
AMP BARS AND CAP SCREWS USED IN IT CONTRACT PRICE BID FOR LINEA	N THE METAL RAIL TO END BLOCK CONNECTION AR FEET OF 2 BAR METAL RAILS.
INSERT WITH BOLT SHALL BE ASSE	MBLED IN THE SHOP.
RAL CONCRETE INSERT ASSEMBLY, AN RIOUS PAY ITEMS.	ID THE $\frac{1}{2}$ " plates complete in place
THE END BLOCK. IF THE ADHESIVE EPLACED WITH A $\frac{3}{4}$ " \varnothing X $\frac{6!}{2}$ " BOLT	SYSTEM IN LIEU OF THE STRUCTURAL BONDING SYSTEM IS USED. THE ¾''ØX 15%'' AND 2''O.D. WASHER. ALL SPECIFICATIONS X 6 ½''BOLT. FIELD TESTING OF THE
CONT	R.P.W.(TYP.ALL TACT POINTS) FERRULE
BOLT ASHER © ¾'' STRUCTURAL CONCRETE INSERT FERF	RULE375'' Ø WIRE STRUT
└────────────────────────────────────	PLAN ELEVATION
QWAY S	STRUCTURAL_CONCRETE
 OCK	* EACH WELDED ATTACHMENT OF WIRE TO FERRULE SHALL DEVELOP THE TENSILE STRENGTH OF THE WIRE.
	PROJECT NO. R-2566BA
	WATAUGA COUNTY
	STATION: 164+30.00 -L-
	SHEET 1 OF 3
SEAL	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH STANDARD
SEAL 20125	STANDARD
SEAL 20125 EVGINEER Docasjaced by G CVH to the	RAIL POST SPACINGS

END OF RAIL DETAILS Marshall G. Check, Jr 5FBCC2F3A4DC413... FOR TWO BAR METAL RAILS 9/30/2021 | 1:43 PM EDT DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED TGS ENGINEERS 706 HILLSBOROUGH STREET SUITE 200 RALEIGH, NC 27603 PH (919) 773–8887 CORP. LICENSE NO.: C-0275 SHEET NO REVISIONS S-45 NO. DATE: DATE: BY: BY: total sheets 79 STD. NO. BMR2