

+

MAA/THC

1'-4" H - ¾4″ Ø X 15%8″ BOLT AND 2″ O.D. WASHER I I m LROADWAY FAC H ______1¹/₂″ PLAN - RAIL AND END PO

DO UNL

- THE STRUCTURAL CONCRETE
- A. FERRULES SHALL BE MAD SHALL HAVE A MINIMUM
- B. 1 3/4"ØX 15/8" BOLT WI AND WASHER SHALL BE MAY BE USED AS AN AL CONFORM TO OR EXCEED SHALL BE APPROVED BY
- C. WIRE STRUT SHOWN IN SHALL HAVE A MINIMUM A MINIMUM TENSILE ST

THE METAL RAIL TO END PO A. 1/2" PLATES SHALL CONFO

- B. 3/4" STRUCTURAL CONCRE FERRULES SHALL ENGAGE SHALL HAVE N.C. THREA
- C. CAP SCREWS FOR RAIL 305 STAINLESS STEEL.
- D. STANDARD CLAMP BARS
- E. $\frac{1}{2}$ Ø PIPE SLEEVES (IF

THE COST OF THE STANDARD SHALL BE INCLUDED IN THE

THE 3/4" STRUCTURAL CONCRE

THE COST OF THE ⅔″ STRUC SHALL BE INCLUDED IN THE

THE CONTRACTOR, AT HIS OP CONCRETE INSERT EMBEDDED BOLT WITH WASHER SHALL E THAT APPLY TO THE $\frac{3}{4}$ " Ø X ADHESIVE BONDING SYSTEM

NOTES	
STRUCTURAL CONCRETE INSERT	
DE FROM STEEL MEETING THE REQUIREMENTS OF AASHTO M169, GRADE 12L14 AND 1 LENGTH OF THREADS OF 1 ¹ / ₂ ".	
(ITH WASHER.BOLT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A307.BOLT GALVANIZED. (AT THE CONTRACTOR'S OPTION, STAINLESS STEEL BOLT AND WASHER TERNATE FOR THE $\frac{3}{4}$ " Ø X 15% GALVANIZED BOLT AND WASHER.THEY SHALL THE MECHANICAL REQUIREMENTS OF ASTM A307. THE USE OF THIS ALTERNATE THE ENGINEER.)	
THE CONCRETE INSERT ASSEMBLY DETAIL IS THE MINIMUM ALLOWABLE SIZE AND 4 TENSILE STRENGTH OF 100,000 PSI. AS AN OPTION, A $\frac{7}{16}$ "Ø WIRE STRUT WITH TRENGTH OF 90,000 PSI IS ACCEPTABLE.	
NOTES METAL RAIL TO END POST CONNECTION	
DST CONNECTION SHALL CONSIST OF THE FOLLOWING COMPONENTS:	
ORM TO AASHTO M270 GRADE 36 AND SHALL BE GALVANIZED AFTER FABRICATION.	
	OAD SHEAR CAPACITY OF 4800 LBS. THE ASHER IN PLACE.THE $\frac{3}{4}$ " Ø X 1 $\frac{5}{8}$ " BOLT
ATTACHMENT TO ANGLE SHALL CONFORM TO THE REQUIREMENTS OF ASTM F593 ALLOY CAP SCREWS TO BE CENTERED IN SLOTS AT 60°F.	
(SEE METAL RAIL SHEET).	
REQUIRED) TO BE GALVANIZED.	
) CLAMP BARS AND CAP SCREWS USED IN THE METAL RAIL TO END POST CONNECTION UNIT CONTRACT PRICE BID FOR LINEAR FEET OF 2 BAR METAL RAILS.	
ETE INSERT WITH BOLT SHALL BE AS	SEMBLED IN THE SHOP.
VARIOUS PAY ITEMS.	AND THE $\frac{1}{2}$ " plates complete in place
) IN THE END POST.IF THE ADHESIVE BE REPLACED WITH A $\frac{3}{4}$ " Ø X 6 $\frac{1}{2}$ " BOL	G SYSTEM IN LIEU OF THE STRUCTURAL E BONDING SYSTEM IS USED, THE ¾″ØX 15%″ T AND 2″O.D.WASHER. ALL SPECIFICATIONS ØX 6 ½″BOLT. FIELD TESTING OF THE
R.P.W.(T) Contact Po	P.ALL + CLOSED-END FERRULE
\$\$TRUCTURAL CONCRETE INSERT FERRULE 	
	WIRE STRUT
- 7 ⁷ / ₈ " _ PL	AN <u>ELEVATION</u>
STRUCTL	IRAL CONCRETE INSERT
	WELDED ATTACHMENT OF WIRE TO
• T	JLE SHALL DEVELOP THE TENSILE NGTH OF THE WIRE.
	PROJECT NO. <u>I-5987A</u>
	ROBESON COUNTY
	STATION: 29+75.79 -Y2-
	SHEET 3 OF 3
Decision Ha & AROLING	DEPARTMENT OF TRANSPORTATION RALEIGH STANDARD
64457770FE460 SEAL 027799	
027799 <i>KONEFR</i> <i>SON K.</i> <i>SON K.</i> <i>SON K.</i>	RAIL POST SPACINGS
3/22/2022 CUMENT NOT CONSIDERED FINAL	END OF RAIL DETAILS for one or two bar metal rails
ESS ALL SIGNATURES COMPLETED	REVISIONS SHEET NO.
MI ENGINEERING 1011 SCHAUB DRIVE, SUITE 100 RALEIGH, NC 27606	NO. BY: DATE: NO. BY: DATE: S1-22
(919) 851-6606 FIRM PE NUMBER : P-0671	1 3 TOTAL SHEETS 2 4 36
	STD. NO. BMR2