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DETAILS	FOR	ATTAC	ΗI

ASSEMBLED BY : H.T.BARB CHECKED BY : V.X.NGUYE	
	REV.5/7/03 RWW/JTE REV.5/1/06 TLA/GM REV.10/1/11 MAA/GM

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NOTES	
STRUCTURAL CONCRETE I	
RT ASSEMBLY SHALL CONSIST O ROM STEEL MEETING THE REQUIF GTH OF THREADS OF 11/2''.	F THE FOLLOWING COMPONENTS: REMENTS OF AASHTO M169, GRADE 12L14 AND
ANIZED.(AT THE CONTRACTOR'S ATE FOR THE ⅔4′′Ø X 15⁄8′′ GAI	TO THE REQUIREMENTS OF ASTM A307.BOLT OPTION, STAINLESS STEEL BOLT AND WASHER VANIZED BOLT AND WASHER.THEY SHALL ASTM A307. THE USE OF THIS ALTERNATE
	TAIL IS THE MINIMUM ALLOWABLE SIZE AND . AS AN OPTION, A $\frac{7}{16}^{\prime\prime} \varnothing$ wire strut with BLE.
NOTES	
METAL RAIL TO END POST CO	
CONNECTION SHALL CONSIST OF	THE FOLLOWING COMPONENTS: ) SHALL BE GALVANIZED AFTER FABRICATION.
NSERT SHALL HAVE A WORKING	LOAD SHEAR CAPACITY OF 4800 LBS. THE WASHER IN PLACE. THE $\frac{3}{4}$ "Ø X 1 $\frac{5}{8}$ " BOLT
CHMENT TO ANGLE SHALL CONFO SCREWS TO BE CENTERED IN SL	RM TO THE REQUIREMENTS OF ASTM F593 ALLOY OTS AT 60°F.
E METAL RAIL SHEET ).	
DUIRED) TO BE GALVANIZED.	
T CONTRACT PRICE BID FOR LI	) IN THE METAL RAIL TO END POST CONNECTION NEAR FEET OF 2 BAR METAL RAILS.
INSERT WITH BOLT SHALL BE A	
AL CONCRETE INSERT ASSEMBLY IOUS PAY ITEMS.	, AND THE $\frac{1}{2}$ " plates complete in place
THE END POST. IF THE ADHESIV PLACED WITH A $\frac{3}{4}$ " $\varnothing$ X 6 $\frac{1}{2}$ " BC	NG SYSTEM IN LIEU OF THE STRUCTURAL E BONDING SYSTEM IS USED, THE ¾''ØX 15⁄8'' OLT AND 2''O.D.WASHER. ALL SPECIFICATIONS ''ØX 6 ½''BOLT. FIELD TESTING OF THE
CO	R.P.W.( TYP.ALL + CLOSED-END NTACT POINTS ) - FERRULE
	NTACT POINTS // PERRULE
2 ¾′′ STRUCTURAL ONCRETE INSERT	
FE	RRULE375" Ø
7/8''	WIRE STRUT
	PLAN ELEVATION
	STRUCTURAL CONCRETE
-	INSERT
	<pre>* EACH WELDED ATTACHMENT OF WIRE TO FERRULE SHALL DEVELOP THE TENSILE STRENGTH OF THE WIRE.</pre>
	PROJECT NO. B-4822
	STATION: 15+10.00 -L-
	SHEET 3 OF 3
	STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
SEAL 17230	STANDARD
SEAL 17230	RAIL POST SPACINGS
17230 IVGINEER S. ARAL	END OF RAIL DETAILS
DocuSigned by: Wael Orafat 11/18/2015	FOR TWO BAR METAL RAILS
,, <b></b> ,	REVISIONS SHEET NO. BY: DATE: S-11
	1 3 TOTAL SHEETS
	2 4 18 STD. NO. BMR2