

27-JAN-2017 06:51 R:\Structures\Plans\FinalPlans\B4655\_SMU\_Final.dgn kalford

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THE COST OF THE 3/4" STRUCTUR SHALL BE INCLUDED IN THE VAR THE CONTRACTOR, AT HIS OPTION CONCRETE INSERT EMBEDDED IN BOLT WITH WASHER SHALL BE RE THAT APPLY TO THE 34" Ø X 15%

NOTES	
STRUCTURAL CONCRETE INSERT	
ROM STEEL MEETING THE REQUIREMENTS OF AASHTO M169, GRADE 12L14 AND NGTH OF THREADS OF $1\frac{1}{2}$ ".	
WASHER.BOLT SHALL CONFORM TO THE REQUIREMENTS OF ASTM A307.BOLT ANIZED. (AT THE CONTRACTOR'S OPTION, STAINLESS STEEL BOLT AND WASHER NATE FOR THE ¾″Ø X 15⁄8″ GALVANIZED BOLT AND WASHER.THEY SHALL E MECHANICAL REQUIREMENTS OF ASTM A307. THE USE OF THIS ALTERNATE ENGINEER.)	
CONCRETE INSERT ASSEMBLY DETAIL IS THE MINIMUM ALLOWABLE SIZE AND NSILE STRENGTH OF 100,000 PSI. AS AN OPTION, A $\frac{7}{16}$ " Ø WIRE STRUT WITH GTH OF 90,000 PSI IS ACCEPTABLE.	
NOTES METAL RAIL TO END POST CONNECTION	
	OF THE FOLLOWING COMPONENTS:
TO AASHTO M270 GRADE 36 AND SHALL BE GALVANIZED AFTER FABRICATION.	
NSERT SHALL HAVE A WORKING LOAD SHEAR CAPACITY OF 4800 LBS. THE $\frac{3}{4}$ " Ø X 1 $\frac{5}{8}$ " BOLT WITH 2" O.D. WASHER IN PLACE. THE $\frac{3}{4}$ " Ø X 1 $\frac{5}{8}$ " BOLT	
ACHMENT TO ANGLE SHALL CONFORM TO THE REQUIREMENTS OF ASTM F593 ALLOY SCREWS TO BE CENTERED IN SLOTS AT 60°F. EE METAL RAIL SHEET ).	
UIRED) TO BE GALVANIZED.	
AMP BARS AND CAP SCREWS USED IN THE METAL RAIL TO END POST CONNECTION T CONTRACT PRICE BID FOR LINEAR FEET OF 1 OR 2 BAR METAL RAILS.	
INSERT WITH BOLT SHALL BE	
AL CONCRETE INSERT ASSEMB RIOUS PAY ITEMS.	LY, AND THE $\frac{1}{2}$ " plates complete in place
N, MAY USE AN ADHESIVE BONDING SYSTEM IN LIEU OF THE STRUCTURAL THE END POST.IF THE ADHESIVE BONDING SYSTEM IS USED, THE $\frac{3}{4}$ " Ø X 1 $\frac{5}{8}$ " EPLACED WITH A $\frac{3}{4}$ " Ø X 6 $\frac{1}{2}$ " BOLT AND 2" O.D. WASHER. ALL SPECIFICATIONS "BOLT SHALL APPLY TO THE $\frac{3}{4}$ " Ø X 6 $\frac{1}{2}$ " BOLT. FIELD TESTING OF THE NOT REQUIRED.	
CON	R.P.W.( TYP.ALL TACT POINTS )
FERRULE .375" Ø	
	WIRE STRUT
	PLAN <u>ELEVATION</u>
	STRUCTURAL CONCRETE
	INSERT ———
	<pre>* EACH WELDED ATTACHMENT OF WIRE TO FERRULE SHALL DEVELOP THE TENSILE STRENGTH OF THE WIRE.</pre>
	STRENGTH OF THE WIRE.
	PROJECT NO. <u>B-4655</u>
ACE @ ENT 2	WAKE COUNTY
	STATION: 18+35.50 -L-
	STATE OF NORTH CAROLINA
WITH CARO	DEPARTMENT OF TRANSPORTATION RALEIGH
NA CESSION	STANDARD
SEAL 29441	RAIL POST SPACINGS
SEAL 29441 TACINEER W. ALTINITY	AND
DocuSigned by:	END OF RAIL DETAILS
F245838930BF40E 1/27/2017	REVISIONS SHEET NO.
DOCUMENT NOT CONSIDERED	NO. BY: DATE: NO. BY: DATE: S-11 1 3 VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII
FINAL UNLESS ALL SIGNATURES COMPLETED	<b>2 4</b> 18
	STD.NO.BMR2