THE STRUCTURAL CONCRETE INSERT ASSEMBLY SHALL CONSIST OF THE FOLLOWING COMPONENTS:

A. Standard Clamp Bars (See Metal Rail Sheet).
B. FERRULES SHALL ENGAGE A 1" ~ X 1" BOLT WITH WASHER. BOLT SHAIL HAVE N. C. THREADS.
C. Cap Screws for Rail Attachment to Angle Shall Conform to the Requirements of ASTM F593 Alloy 305 Stainless Steel. Cap Screws to be Centered in Slots at 60°.

THE METAL RAIL TO END POST CONNECTION SHALL CONSIST OF THE FOLLOWING COMPONENTS:

A. 1" Plates Shall Conform to AASHTO Grade A285 and Shall be Galvanized after Fabrication.
B. Structural Concrete Inserts Shall Have a Working Load Service Capacity of 180 psi, the Plates Shall Engage a 1" ~ X 1" BOLT WITH 1" PLATE IN PLACE. THE 1" X 1" BOLT SHALL HAVE N. C. THREADS.
C. FERRULES SHALL BE MADE FROM STEEL MEETING THE REQUIREMENTS OF AASHTO M169, GRADE 12L14 AND SHALL HAVE A MINIMUM LEAD THREAD. BOLT SHALL HAVE A MINIMUM TENSILE STRENGTH OF 90,000 PSI is acceptable.
D. Standard Clamp Bars (See Metal Rail Sheet).
E. 1" Pipe Sleeves (If Required) Shall be Galvanized.

THE COST OF THE STANDARD CLAMP BARS AND CAP SCREWS USED IN THE METAL RAIL TO END POST CONNECTION SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR LINEAR FEET OF 1 OR 2 BAR METAL RAILS.

THE COST OF THE 1" STRUCTURAL CONCRETE INSERTS SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR LINEAR FEET OF 1 OR 2 BAR METAL RAILS.

THE CONTRACTOR, AT HIS OPTION, MAY USE AN ADHESIVE BONDING SYSTEM IN LIEU OF THE STRUCTURAL CONCRETE INSERT EMBEDDED IN THE END POST. IF THE ADHESIVE BONDING SYSTEM IS NOT REQUIRED.

THE COST OF THE 1" STRUCTURAL CONCRETE INSERTS AND THE 1" PLATED COMPLMENT IN PLACE SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR LINEAR FEET OF 1 OR 2 BAR METAL RAILS.

THE COST OF THE 1" STRUCTURAL CONCRETE INSERTS AND THE 1" PLATED COMPLMENT IN PLACE SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR LINEAR FEET OF 1 OR 2 BAR METAL RAILS.