NOTES

DETAILS FOR ATTACHMENT BRACKET

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

A. 12mm PLATES SHALL CONFORM TO AASHTO GR-250 AND SHALL BE GALVANIZED AFTER FABRICATION.

B. 19.05mm STRUCTURAL CONCRETE INSERT SHALL HAVE A WORKING LOAD SHEAR CAPACITY OF 21.4 kN.

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 19.05mm STRUCTURAL CONCRETE INSERT. WASHERS SHALL BE MADE FROM STEEL MEETING THE REQUIREMENTS OF AASHTO M169.

D. STANDARD CLAMP BARS (SEE STD. NO. BMR7SM).

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

A. FERRULES SHALL BE MADE FROM STEEL MEETING THE REQUIREMENTS OF AASHTO M169, GRADE 250, AND SHALL HAVE A MINIMUM LENGTH OF THREADS OF 38mm.

B. 19.05mm STRUCTURAL CONCRETE INSERT WITH BOLT SHALL BE ASSEMBLED IN THE SHOP.

THE 19.05mm STRUCTURAL CONCRETE INSERT WITH BOLT SHALL BE ASSEMBLED IN THE SHOP.

REFERENCES:

- ASTM F593 ALLOY 305 STAINLESS STEEL.
- ASTM F844.
- ASTM A307.
- AASHTO M169, GRADE 250.
- AASHTO M270, GRADE 12L14.
- AASHTO M169, ALLOY 304 STAINLESS STEEL.

THE CONTRACTOR, AT HIS OPTION, MAY USE AN ADHESIVE BONDING SYSTEM IN LIEU OF THE STRUCTURAL CONCRETE INSERT ASSEMBLY. IF THE ADHESIVE BONDING SYSTEM IS USED, THE COST OF THE ADHESIVE BONDING SYSTEM SHALL BE INCLUDED IN THE VARIOUS PAY ITEMS.

THE STRUCTURAL CONCRETE INSERT AND THE 12mm PLATES COMPLETE IN PLACE, SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR METERS OF 3 BAR METAL RAIL.

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 METERS OF 3 BAR METAL RAIL.

THE FERRULES SHALL ENGAGE A 19.05mm STRUCTURAL CONCRETE INSERT WITH 51mm O.D. WASHER IN PLACE.

THE 19.05mm STRUCTURAL CONCRETE INSERT SHALL HAVE A WORKING LOAD SHEAR CAPACITY OF 21.4 kN.

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 METERS OF 3 BAR METAL RAIL.

THE 19.05mm STRUCTURAL CONCRETE INSERT SHALL HAVE A WORKING LOAD SHEAR CAPACITY OF 21.4 kN.

THE FERRULES SHALL ENGAGE A 19.05mm STRUCTURAL CONCRETE INSERT WITH 51mm O.D. WASHER IN PLACE.

THE 19.05mm STRUCTURAL CONCRETE INSERT SHALL HAVE A WORKING LOAD SHEAR CAPACITY OF 21.4 kN.

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