ELEVATION

NOTE: WHEN ATTACHMENT OF METAL RAIL TO END POST SEE STANDARD NOTES.

SECTION THRU PARAPET AND RAIL

NOTE: ATTACHMENT OF METAL RAIL TO END POST SEE STANDARD NOTES.

GENERAL NOTES

1. MATERIALS FOR END OF RAIL TO CLEAR FACE OF CONCRETE END POST DIMENSION, SEE STANDARD NO. BMR2.

2. GENERAL NOTES

3. MATERIALS FOR SHIMS TO BE ASTM B209 ALLOY 6061-T6. COATED WITH AN ALUMINUM IMPREGNATED CAULKING COMPOUND OF APPROVED QUALITY.


5. THE CUT ENDS OF GALVANIZED STEEL RAILING AFTER GROUNDING AND SMOOTHING SHALL BE GIVEN TWO COATS OF THE CONTRACTOR'S APPROVED PRODUCT OF EQUAL QUALITY TO THE STANDARD SPECIFICATIONS.

6. MATERIALS OF WITHIN 10 FEET IN LENGTH.

7. THE CONTRACTOR MAY, AT HIS OPTION, HAVE THE REQUIRED CURVATURE IN THE RAIL FORMED IN THE SHOP OR ON THE JOB SITE. CURVED RAIL USAGE: WHERE RAILS ARE TO BE USED ON BRIDGES ON HORIZONTAL AND/OR VERTICAL CURVATURE MUST BE SHOWN IN THE STANDARD SPECIFICATIONS.

8. METHOD OF MEASUREMENT FOR METAL RAILS: FOR LENGTH OF METAL RAILS TO BE PAID FOR, SEE THE STANDARD SPECIFICATIONS.

9. CERTIFIED MILL REPORTS ARE REQUIRED FOR RAILS AND POSTS. SHOP INSPECTION IS NOT REQUIRED.

10. MATERIALS AND GALVANIZING ARE TO COMPLY WITH THE FOLLOWING SPECIFICATIONS:

   - ALUMINUM RAILS
   - STAINLESS STEEL CAP SCREWS
   - STAINLESS STEEL WASHERS
   - STAINLESS STEEL RIVETS


   MATERIAL FOR END OF RAIL TO CLEAR FACE OF CONCRETE END POST DIMENSION, SEE STANDARD NO. BMR2.

   GENERAL NOTES

   1. MATERIALS FOR SHIMS TO BE ASTM B209 ALLOY 6061-T6. COATED WITH AN ALUMINUM IMPREGNATED CAULKING COMPOUND OF APPROVED QUALITY.

   2. MATERIALS FOR POSTS, BASES AND RAILS, EXPANSION BARS AND CLAMP BARS SHALL BE ASTM B-221 ALLOY 6061-T6.

   3. MATERIALS FOR SHIMS TO BE ASTM B209 ALLOY 6061-T6. COATED WITH AN ALUMINUM IMPREGNATED CAULKING COMPOUND OF APPROVED QUALITY.

   4. MATERIALS FOR END OF RAIL TO CLEAR FACE OF CONCRETE END POST DIMENSION, SEE STANDARD NO. BMR2.

   5. MATERIALS FOR SHIMS TO BE ASTM B209 ALLOY 6061-T6. COATED WITH AN ALUMINUM IMPREGNATED CAULKING COMPOUND OF APPROVED QUALITY.


   7. MATERIALS FOR SHIMS TO BE ASTM B209 ALLOY 6061-T6. COATED WITH AN ALUMINUM IMPREGNATED CAULKING COMPOUND OF APPROVED QUALITY.

   8. MATERIALS FOR END OF RAIL TO CLEAR FACE OF CONCRETE END POST DIMENSION, SEE STANDARD NO. BMR2.

   9. MATERIALS FOR SHIMS TO BE ASTM B209 ALLOY 6061-T6. COATED WITH AN ALUMINUM IMPREGNATED CAULKING COMPOUND OF APPROVED QUALITY.

   10. MATERIALS FOR POSTS, BASES AND RAILS, EXPANSION BARS AND CLAMP BARS SHALL BE ASTM B-221 ALLOY 6061-T6.
4-BOLT METAL RAIL ANCHOR ASSEMBLY

(4 ASSEMBLIES REQUIRED)

NOTES

STRUCTURAL CONCRETE ANCHOR ASSEMBLY

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

A. BOLTS SHALL BE MADE FROM STEEL MEETING THE REQUIREMENTS OF A325, NOT LESS THAN 1-1/4" FOR 3/8" TETERS.

B. 4 - 3/8" x 2-1/2" BOLTS WITH WASHERS, BOLTS SHALL CONFORM TO THE REQUIREMENTS OF A325, BOLTS AND WASHERS SHALL BE COMPRESSED.

C. THE CONTRACTOR'S UNDERGROUND STEEL BOLTS AND WASHERS MAY BE USED AS AN ALTERNATIVE.

D. THE CONTRACTOR'S STEEL BOLTS AND WASHERS, THEY SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF A325.

E. ALL ASSEMBLIES SHALL BE APPROVED BY THE ENGINEER.

F. THE -*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-*ISH*-