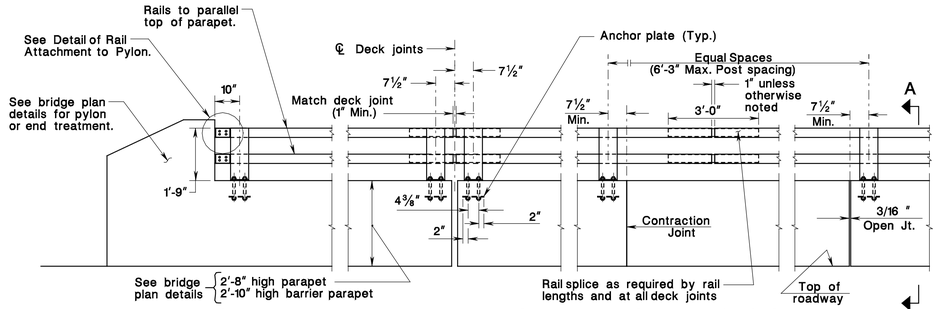
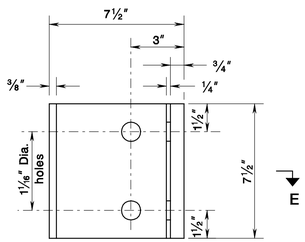
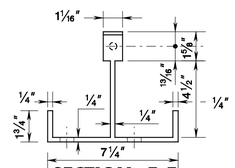


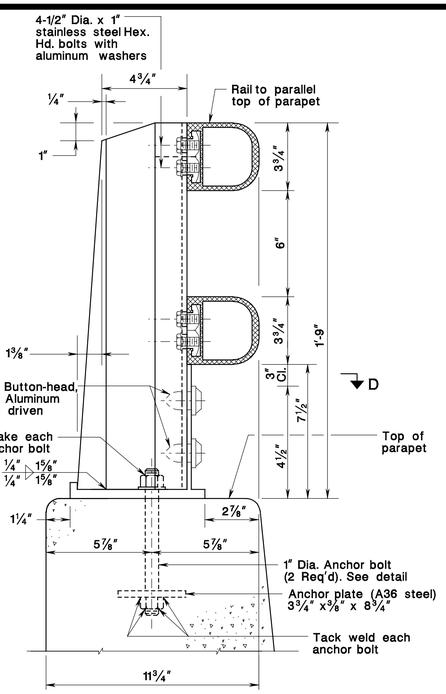
TYPICAL EXTERIOR ELEVATION OF CONTINUOUS RAILING SYSTEM



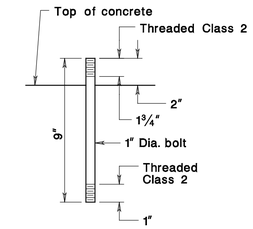
TOP VIEW



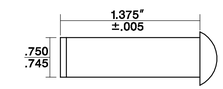
SECTION F–F



SECTION A–A



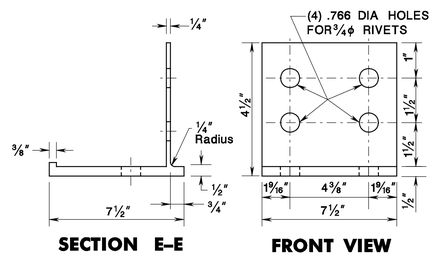
ANCHOR BOLT DETAIL



RIVET DETAIL

GENERAL NOTES

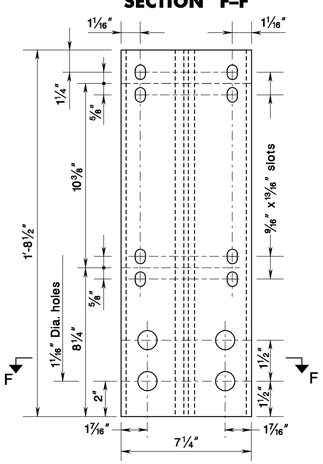
1. Material for posts, bases, rails, and rail clamps shall be ASTM B221. Aluminum Alloy 6061-T6.
2. Washers shall be ASTM B209 Alclad 2024-T3 and nuts shall be ASTM B211, Aluminum Alloy 6061-T6.
3. Anchor bolts shall be ASTM A320, Type 1 Class B8. Top nuts shall be Aluminum thick nuts ASTM B211 Alloy 6061-T6 Class 2 thread. Bottom nuts shall be ASTM A184.
4. Dam Plates shall be used to close all open railing ends. Material shall be ASTM B209 Aluminum Alloy 6061-T6. As an alternate, drive-in end caps may be used. Caps shall be alluminum alloy sand mold astings comlpying with ASTM B26, Alloy SG 356.0-T6.
5. End caps shall be welded to the rails.
6. Where necessary for post alignment, Aluminum Alloy shim material shall be used where required by the Engineer. Shim material shall be ASTM B209, Alloy 1100-0.
7. Paint underside of base with a heavy coat of Non Aluminum Epoxy Mastic Primer.
8. All anchor bolt holes and spaces between base plates and concrete shall be thoroughly caulked with a caulking compound conforming to Federal Specifications A-A-272A, Type III or Type IV.



SECTION E–E

FRONT VIEW

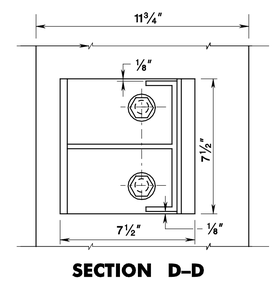
POST BASE



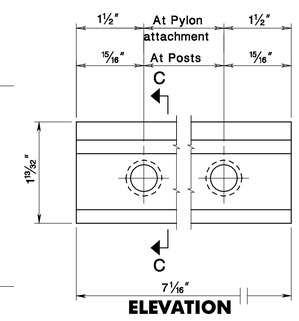
FRONT VIEW

POST STEM

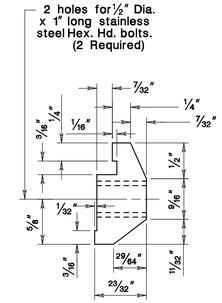
SECTION A–A



SECTION D–D

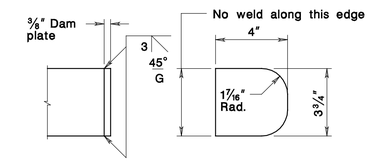


ELEVATION

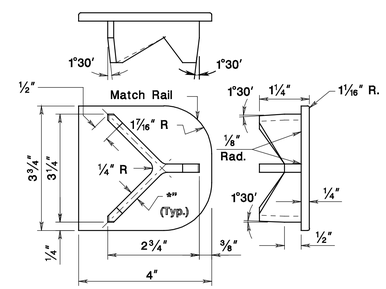


SECTION C–C

DETAILS OF RAIL CLAMP



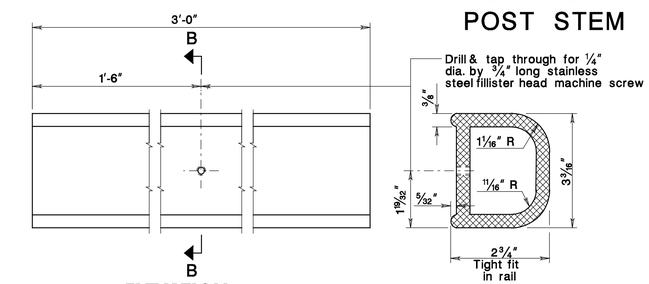
DAM PLATE DETAIL



ALTERNATE DETAIL – END CAP

2–RAIL ALUMINUM RAILING

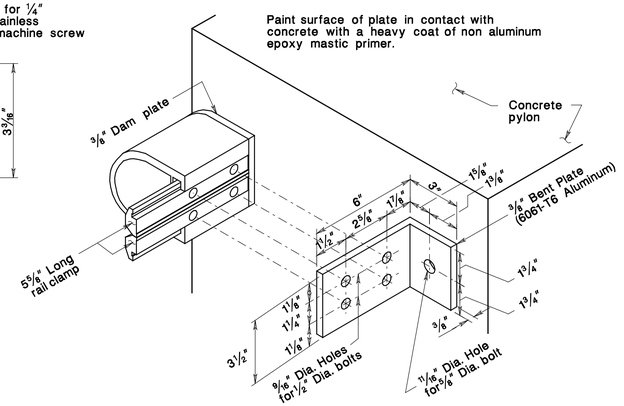
N.T.S.



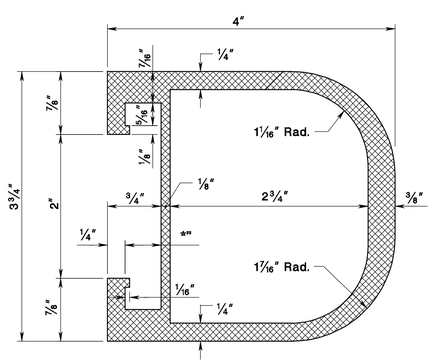
ELEVATION

SECTION B–B

DETAIL OF RAIL SPLICE



DETAIL OF RAIL ATTACHMENT TO PYLON



SECTION THRU RAIL

BCD-509-4.1

BCD-509-4

NEW JERSEY DEPARTMENT OF TRANSPORTATION
BUREAU OF STRUCTURAL ENGINEERING

BRIDGE CONSTRUCTION DETAILS

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