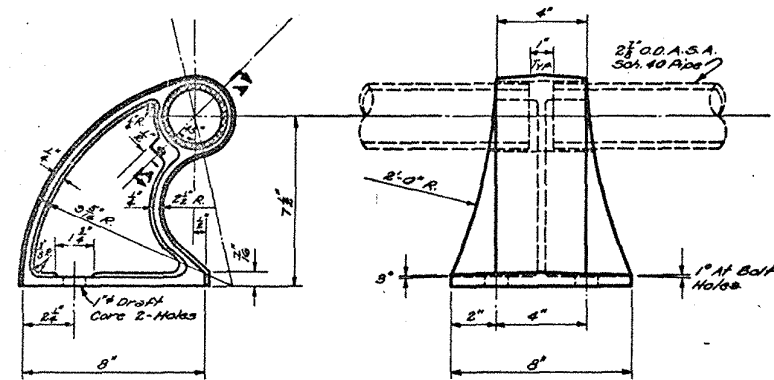
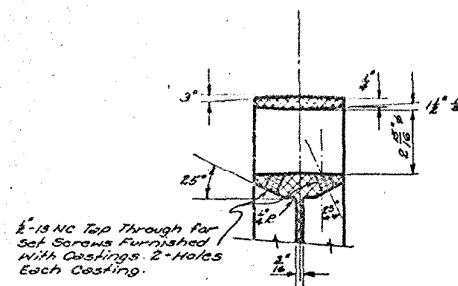


TYPE 2

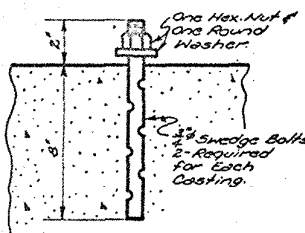


END ELEVATION

SIDE ELEVATION



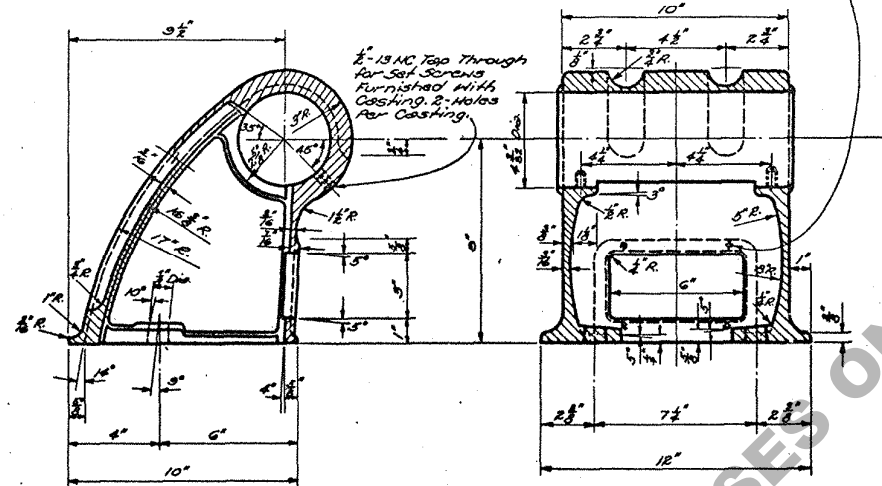
SECTION A-A



ANCHOR BOLT DETAIL

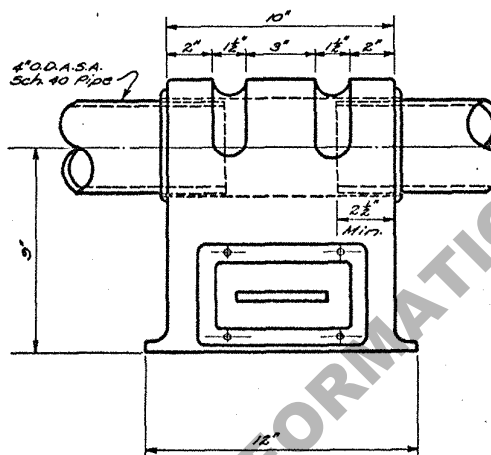
- NOTES:**
- Handrail Casting shall be Full Permanent Mold Castings Using Aluminum Alloy 356-T6 & Shell Have a "Sand Blast" Finish (ASTM B108 54T, Alloy 356 T6A-T6).
 - Anchor Bolts, Nuts, Shims & Washers shall be Aluminum. Bolts & Nuts shall be Made From Rod of Alloy 2024-T4 With N° 205 Aluminum Finish (ASTM B211-52T, Alloy CG 42A-T4, & Given An Anodic Coating of At Least 0.0002 Inches Thick of Chromate Sealant). Shims shall be of Alloy 1100-O (ASTM B209-52T, Alloy 990A-O). Aluminum Washers shall be of Alloy 2024-T4 (ASTM B209-54T, Alloy CG 42A-T4).
 - The Pipe Rail shall be 2 1/2" O.D. A.S.A. Schedule 40, Aluminum Alloy 6063-T6 (ASTM B84, GS 10A-T6).
 - The Set Screws for Holding Rail in Casting shall be Stainless Steel with Socket Head & Cup End.
 - All Aluminum Surfaces to be Placed in Contact With, or Fastened to, Steel Members shall be Thoroughly Coated with an Approved Aluminum Impregnated Caulking Compound. All Aluminum Surfaces to be Placed in Contact With, or Fastened to, Aluminum Members shall be Given a Heavy Coat of an Approved Alkali-Resistant Bituminous Paint, or a Coat of Zinc Chromate Paint, & Allowed to Dry Before Placing on the Concrete.
 - All Details for Handrailing, other than Shown on this Plan shall be in Accordance With Applicable Sheets of the Project Plans.

TYPES 3 & 4

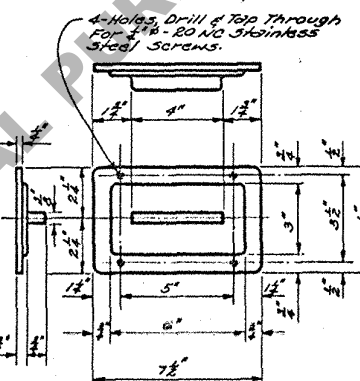


END SECTION

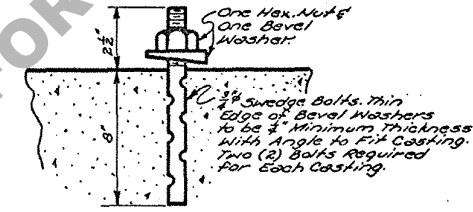
SIDE SECTION



SIDE ELEVATION



ACCESS DOOR COVER

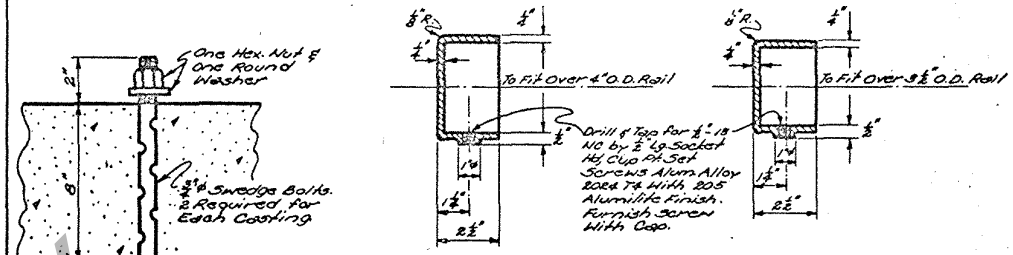


ANCHOR BOLT DETAIL

- NOTES:**
- Handrail Casting shall be Full Permanent Mold Castings Using Aluminum Alloy 356-T6 & Shell Have a "Sand Blast" Finish (ASTM B108 54T, Alloy 356 T6A-T6).
 - Anchor Bolts, Nuts, Shims & Washers shall be Aluminum. Bolts & Nuts shall be Made From Rod of Alloy 2024-T4 With N° 205 Aluminum Finish (ASTM B211-52T, Alloy CG 42A-T4, & Given An Anodic Coating of At Least 0.0002 Inches Thick of Chromate Sealant). Shims shall be of Alloy 1100-O (ASTM B209-52T, Alloy 990A-O). Aluminum Washers shall be of Alloy 2024-T4 (ASTM B209-54T, Alloy CG 42A-T4).
 - The Pipe Rail shall be 4" O.D. A.S.A. Schedule 40, Aluminum Alloy 6063-T6 (ASTM B84, GS 10A-T6).
 - The Set Screws for Holding Rail in Casting shall be Stainless Steel with Socket Head & Cup End.

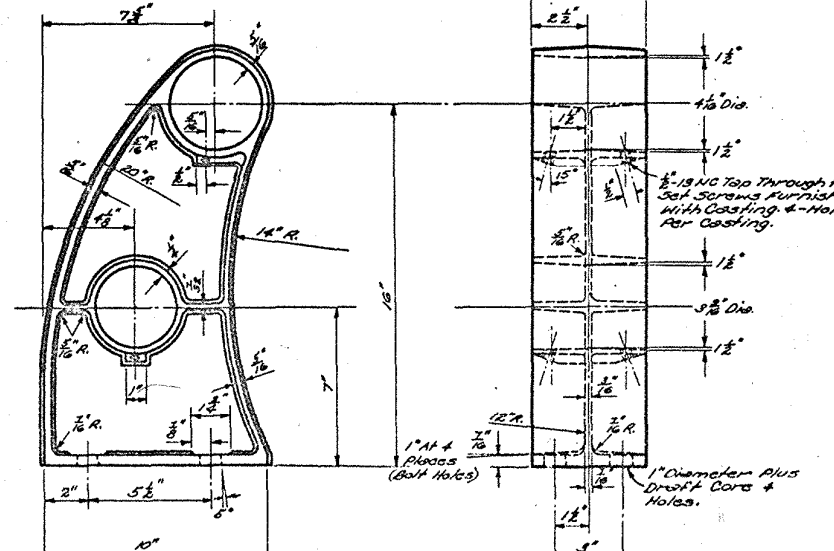
- All Aluminum Surfaces to be Placed in Contact With, or Fastened to, Steel Members shall be Thoroughly Coated With an Approved Aluminum Impregnated Caulking Compound. Aluminum Surfaces to be Placed in Contact With Concrete shall be Given a Heavy Coat of an Approved Alkali-Resistant Bituminous Paint, or a Coat of Zinc Chromate Paint, & Allowed to Dry Before Placing on the Concrete.
- All Details for Handrailing, other than Shown on this Plan shall be in Accordance With Applicable Sheets of the Project Plans.
- The Casting Shown is Same as Part No. 1000 1003 Except for Requirement of Access Door Cover & Use of 1/2" Stainless Steel Screws to Hold Pipe Rail.

TYPE 5



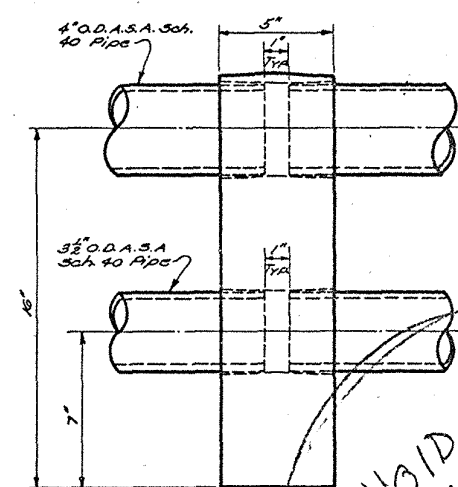
ANCHOR BOLT DETAIL

RAIL CAPS



END ELEVATION

SIDE ELEVATION



SIDE ELEVATION SHOWING RAILS

- NOTES:**
- Handrail Casting shall be Full Permanent Mold Castings Using Aluminum Alloy 356-T6 & Shell Have a "Sand Blast" Finish (ASTM B108 54T, Alloy 356 T6A-T6).
 - Anchor Bolts, Nuts, Shims & Washers shall be Aluminum. Bolts & Nuts shall be Made From Rod of Alloy 2024-T4 With N° 205 Aluminum Finish (ASTM B211-52T, Alloy CG 42A-T4, & Given An Anodic Coating of At Least 0.0002 Inches Thick of Chromate Sealant). Shims shall be of Alloy 1100-O (ASTM B209-52T, Alloy 990A-O). Aluminum Washers shall be of Alloy 2024-T4 (ASTM B209-54T, Alloy CG 42A-T4).
 - The Pipe Rail shall be 4" O.D. A.S.A. Schedule 40, Aluminum Alloy 6063-T6 (ASTM B84, GS 10A-T6).
 - The Set Screws for Holding Rail in Casting shall be Stainless Steel with Socket Head & Cup End.
 - All Aluminum Surfaces to be Placed in Contact With, or Fastened to, Steel Members shall be Thoroughly Coated With an Approved Aluminum Impregnated Caulking Compound. All Aluminum Surfaces to be Placed in Contact With Concrete shall be Given a Heavy Coat of an Approved Alkali-Resistant Bituminous Paint, or a Coat of Zinc Chromate Paint, & Allowed to Dry Before Placing on the Concrete.
 - All Details for Handrailing, other than Shown on this Plan shall be in Accordance With Applicable Sheets of the Project Plans.
 - The Casting Shown is Same as Part No. 1000 1003 Except for use of 1/2" Stainless Steel Screws to Hold Pipe Rail.

STANDARD PLAN ALUMINUM RAILING FOR BRIDGE HANDRAIL TYPES 2, 3, 4 & 5			
DESIGNED BY <i>[Signature]</i>			
CHECKED BY <i>[Signature]</i>			
TRACED BY <i>[Signature]</i>			
BRIDGE DESIGN SECTION			