Aluminum Slide and Weir Gates Suggested Specifications

The slide and weir gates were shown in the plans and specifications shall be as manufactured by **Northcoast Valve and Gate**, **Inc.**

Materials and Construction

Frame, Slide and Reinforcing Members - Aluminum, ASTM B209 Alloy 6061

Stems - Stainless Steel, ASTM A276 Type 304 or 316

Fasteners - Stainless Steel, ASTM F593 Type 304 or 316

Rubber Seals - Neoprene, ASTM D2000

Guide Bars - Ultra High Molecular Weight Polyethylene, ASTM D4020

Guides

Guides shall be of extruded aluminum Type 6061-T6 alloy weighing a minimum of 4.75 lbs./ft. and shall be of either face mounted or embedded design as shown on the plans.

Disc

Disc shall be constructed of aluminum plate type 6061-T6 alloy with 1/4" minimum thickness and reinforced with structural members to limit deflection to 1/360 of span.

Seals

Slide gates shall contain a flush-bottom seal attached to the frame invert member. The seal shall extend into the guide frames and provide complete sealing for the entire width of the disc. J-bulb type seals shall be provided to limit leakage and shall have mitered and epoxy sealed corners.

Aluminum Slide and Weir Gate Specifications

Stem Guides

Guides shall be constructed of aluminum, bronze bushed, adjustable and spaced to provide an l/r ratio of 200 or less.

Manual Lifts

Gates shall be provided with either a handwheel or gear operated with cast bronze drive nuts threaded to engage the operating stem. Gear operators shall have bearings to support the opening and closing thrusts. Handwheel operators shall have cast aluminum handwheels and bearing housings. Gear operators shall have cast iron housings with positive mechanical seals. Dual interconnected gear operators shall be provided for all gates where width is 5 ft. and larger and is double the gate height.

Stem Covers

Operators shall be provided with clear butyrate stem covers with vent holes and rain caps. Travel shall be indicated on mylar scales designed for outside conditions and marked to properly indicate open and closed positions in 1" increments.

Identification

All gates shall be provided with aluminum nameplates permanently fastened to gate and provided with manufacturer's information.

Shop Tests

All gates shall be subjected to welding and assembly criteria as outlined in Northcoast Valve & Gate, Inc. "Quality Control Manual" and submitted with detailed shop drawings during review process.

Installation

All gates shall be installed as detailed in manufacturer's installation guide.

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Aluminum Slide and Weir Gate Specifications

Start-Up Testing

Contractor shall make all installations and provide for adjustments as necessary to place system in proper operating order. Contractor shall conduct field check in presence of owner or agent to demonstrate proper operation of product.

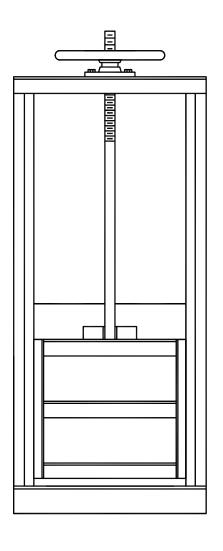
- 3 -

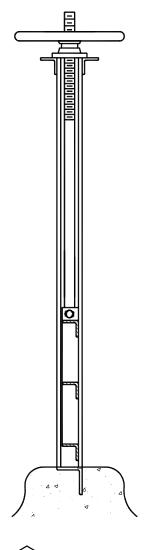
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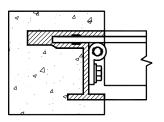


ALUMINUM SLIDE GATES SERIES AL-100

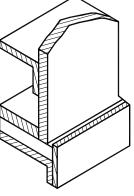
- * EMBEDDED FRAMES
- * SELF CONTAINED
- * FLUSH BOTTOM SEAL



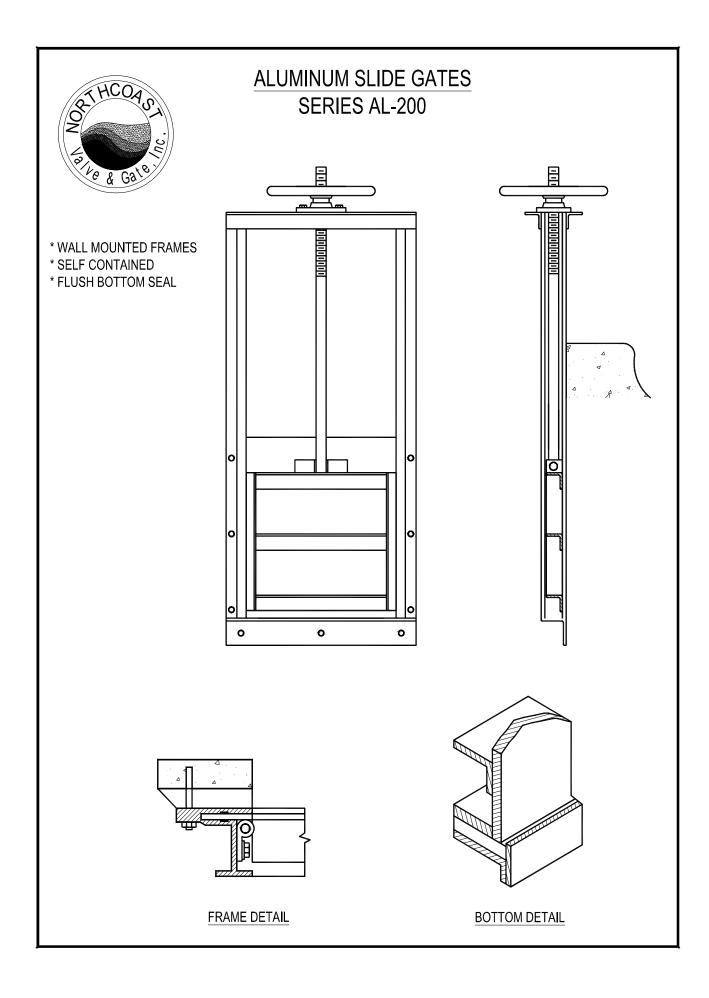




FRAME DETAIL



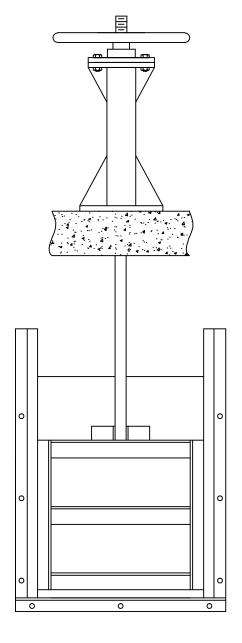
BOTTOM DETAIL

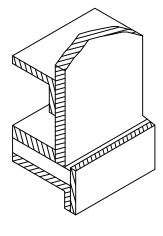




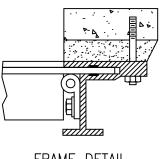
<u>ALUMINUM SLIDE GATES</u> SERIES AL-201

- * WALL MOUNTED
- * NON-SELF CONTAINED
- * J-BULB SEALS
- * FLUSH BOTTOM SEAL

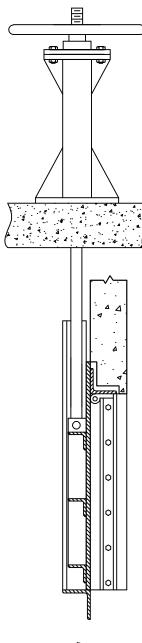


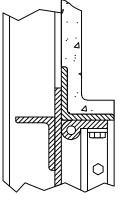








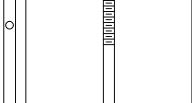




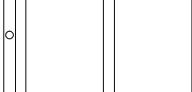
INVERT DETAIL

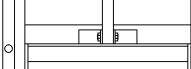
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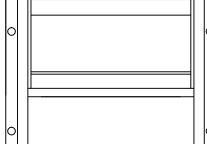
- * WALL MOUNTED
- * SELF CONTAINED
- * J-BULB SEALS
- * DOWNWARD OPENING



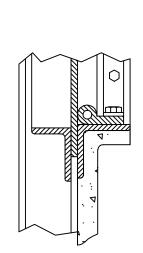
ALUMINUM WEIR GATES
SERIES AL-300



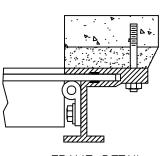












FRAME DETAIL

