

**Mechanical**  
ASSOCIATES



**UHO-30 STAINLESS STEEL & ALUMINUM FLAP GATES  
PRODUCT INFORMATION**

2016 Edition

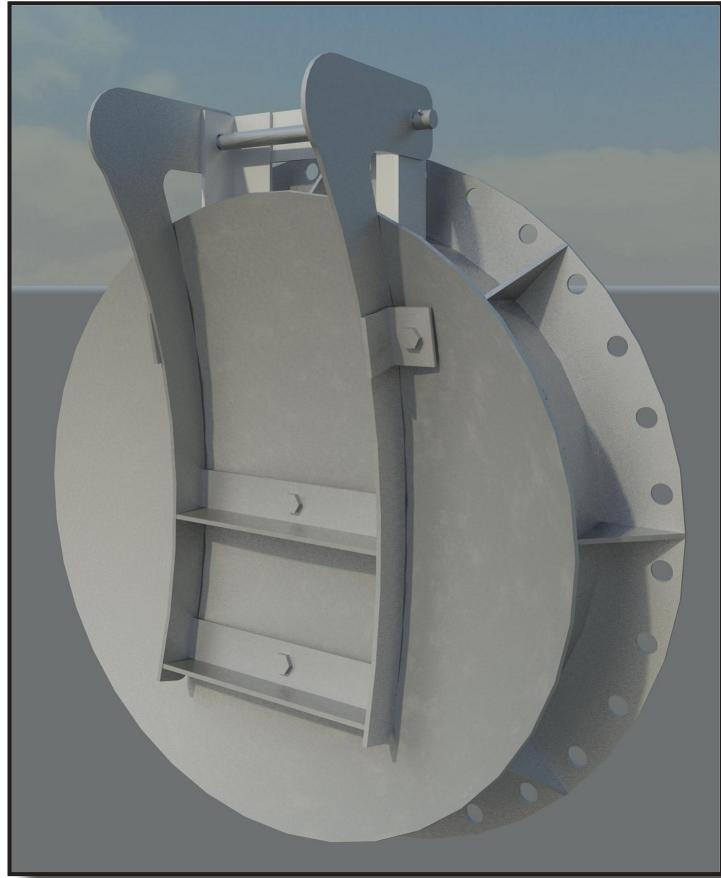


**Mechanical Associates** began manufacturing in 1993. Over the past 22 years we have developed or improved many of the products used in the water control gate market today.

Mechanical Associates introduced a domed flap gate shown in the picture to the right. The domed cover concept is based on the fact that a dome provides greater strength than a flat plate, thus eliminating the need for adding welded reinforcement on the flap gate cover. This design allows for light weight stainless steel flap gates to compete in performance and price with the heavier cast iron gates being offered today.

Today Mechanical Associates offers a full product line of water control gates as well as mud & telescoping valves.

Please contact Mechanical Associates for current prices and information on these or any new product which may have been added to our product line since the publication of this edition of our product catalog.



## CONTACT INFORMATION

### **Mechanical Associates**

745 Broadway Street  
Fresno, CA 93721  
p.559.272.8157  
f.209.392.6147  
[www.mechanical-associates.com](http://www.mechanical-associates.com)

### **Daniel Eggleston**

*General Manager*  
Extension: 105  
[deggleston@mechanical-associates.com](mailto:deggleston@mechanical-associates.com)

### **Taylor Hansell**

*Project Coordinator*  
Extension: 106  
[thansell@mechanical-associates.com](mailto:thansell@mechanical-associates.com)

### **Troy Cozbey**

*Project Engineer*  
Extension: 108  
[tcozbey@mechanical-associates.com](mailto:tcozbey@mechanical-associates.com)

### **John Guerber**

*Shop Foreman*  
[estimating@mechanical-associates.com](mailto:estimating@mechanical-associates.com)

## INTRODUCTION



# WATER CONTROL GATES & VALVES

MECHANICAL ASSOCIATES OFFERS SUPERIOR QUALITY PRODUCTS AND SUPERIOR CUSTOMER SERVICE OVER ANY OTHER COMPETITOR

## MECHANICAL ASSOCIATES

began manufacturing in 1993 as a subcontractor to one of the major USA water control gate manufacturers. Today Mechanical Associates has a continually expanding product line of water control products as well as mud & telescoping valves to meet all of our customers needs.

## CUSTOMER CARE

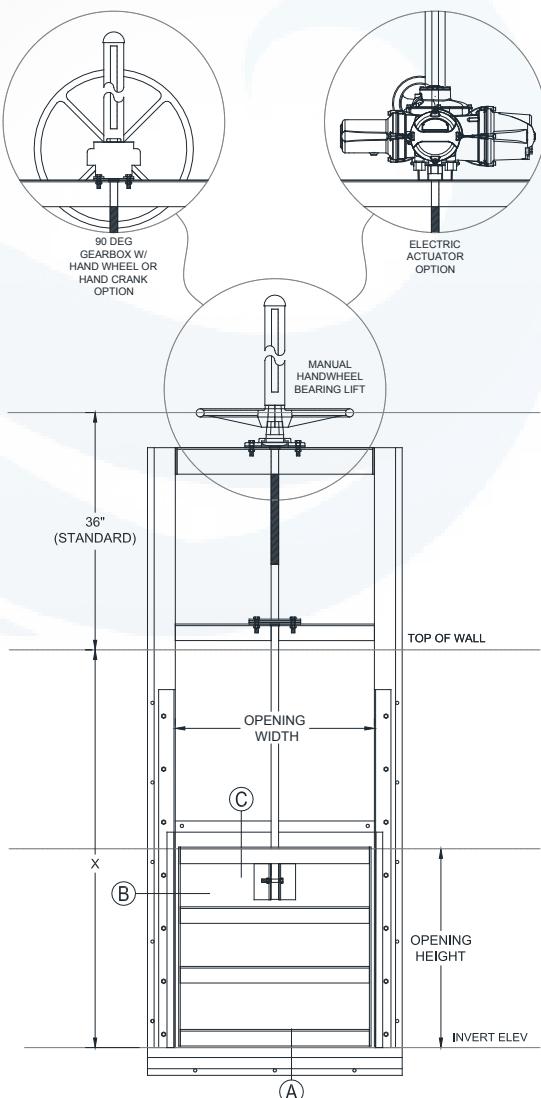
By listening to our customers over the past 22 years Mechanical Associates has developed and/or improved a variety of the products used in the water control gate market today. Through innovation and careful collaboration with our customers, Mechanical Associates provides the best possible solution to meet our clients water control needs.

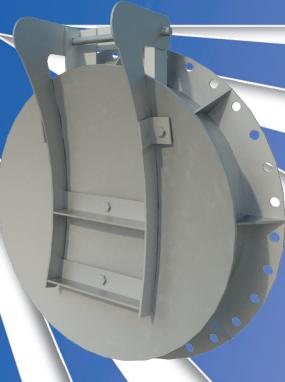
## QUALITY

Mechanical Associates prides itself on providing high quality American made water control products. Mechanical Associates specializes in corrosion resistant materials including Stainless Steel and Marine Grade Aluminum.

## INNOVATION

Mechanical Associates' experienced staff, with over 100 years of working in the water control industry, is continually working to improve all of its products and also working with our customers to create new products.





## MUNICIPAL WATER CONTROL PRODUCTS

### UHO-30 FLAP GATE



#### **Stainless Steel Or Aluminum Flap Gate**

Model: UHO-30-SS or UHO-30-AL

- All Stainless Steel Construction
- Bronze Hinge Pins
- Dual Pivot Design Available
- Replaceable Neoprene Rubber Seal
- Built for Pipe O.D. or I.D. Mounting
- Spigot Back or Flange Back Available
- Heavy Reverse Dome Cover for Higher Heads
- **Environmentally friendly**
- **Non environmentally degrading**
- **No toxic paints or coatings**

**Mechanical Associates'** stainless steel and aluminum gates provide long life and excellent value for the investment. Installation is quick and easy. All gates come standard with replaceable seals for easy maintenance. Stainless steel and aluminum construction will provide long life in corrosive conditions, with little or no maintenance or replacement parts required.

Also available from Mechanical Associates  
Line Gates, Slide Gates, Pressure Gates, Canal Gates, Flap Gates, and more..



**STAINLESS STEEL OR ALUMINUM FLAP GATE  
UHO-30-(SS OR AL)**

**FEATURES:**

- All Stainless Steel Or Aluminum Construction
- Bronze Hinge Pin
- Replaceable Neoprene Rubber Gasket
- O.D. and I.D. Mounting Available
- Spigot Back, Flat Back, or Flange Back Available
- Heavy Reverse Dome Cover for Higher Heads
- Environmentally friendly
- Non environmentally degrading
- No toxic paints or coatings

**PARTS & MATERIALS**

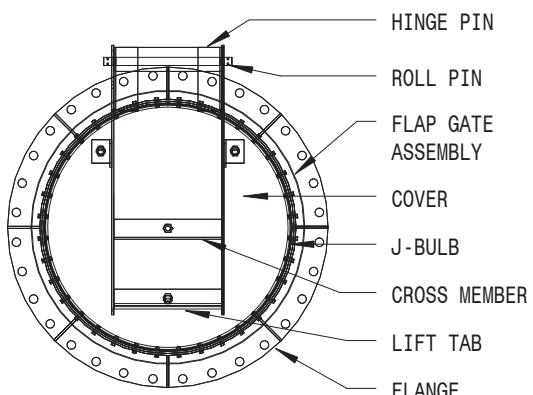
|                    |                                   |
|--------------------|-----------------------------------|
| Flap Gate Assembly | Aluminum Alloy 6061-T6            |
| Flange             | Aluminum Alloy 6061-T6            |
| Cover              | Aluminum Alloy 6061-T6            |
| Hinge Pin          | Commercial Bronze                 |
| Roll Pin           | Stainless Steel ASTM A-276 TY.304 |
| Cross Member       | Aluminum Alloy 6061-T6            |
| Lift Tab           | Aluminum Alloy 6061-T6            |
| J-Bulb Seal        | Neoprene Rubber: ASTM D-2000      |

UHO-30-AL FLAP GATE

**PARTS & MATERIALS**

|                    |                                   |
|--------------------|-----------------------------------|
| Flap Gate Assembly | Stainless Steel ASTM A-276 TY.304 |
| Flange             | Stainless Steel ASTM A-276 TY.304 |
| Cover              | Stainless Steel ASTM A-276 TY.304 |
| Hinge Pin          | Commercial Bronze                 |
| Roll Pin           | Stainless Steel ASTM A-276 TY.304 |
| Cross Member       | Stainless Steel ASTM A-276 TY.304 |
| Lift Tab           | Stainless Steel ASTM A-276 TY.304 |
| J-Bulb Seal        | Neoprene Rubber: ASTM D-2000      |

UHO-30-SS FLAP GATE





## MUNICIPAL WATER CONTROL PRODUCTS

### UHO-30-SQ STAINLESS STEEL OR ALUMINUM SQUARE FLAP GATE



#### Square Flap Gate

Model: UHO-30-SQ-SS Or UHO-30-SQ-AL

- All Stainless Steel Construction
- Bronze Hinge Pins
- Dual Pivot Option Available
- Adjustable Hinge Arms For Sensitive Seating
- Replaceable Neoprene Rubber Seal
- Custom Sizes Available
- Rectangular Proportions Available
- **Environmentally friendly**
- **Non environmentally degrading**
- **No toxic paints or coatings**

\*\* Available In All Aluminum - UHO-30SQ-AL

**Mechanical Associates'** stainless steel and aluminum gates provide long life and excellent value for the investment. Installation is quick and easy. All gates come standard with replaceable seals for easy maintenance. Stainless steel and aluminum construction will provide long life in corrosive conditions, with little or no maintenance or replacement parts required.

Also available from Mechanical Associates  
Line Gates, Slide Gates, Pressure Gates, Canal Gates, Flap Gates, and more..



**SQUARE FLAP GATE  
UHO-30SQ-(SS OR AL)**

**FEATURES:**

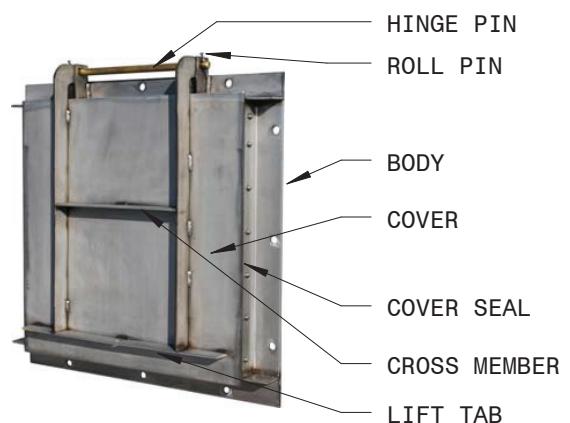
- All Stainless Steel Or Aluminum Construction
- Bronze Hinge Pin
- Replaceable Neoprene Rubber Gasket
- Available in Sizes 10"-48"
- Custom Sizes Available
- Rectangular Proportions Available
- Environmentally friendly
- Non environmentally degrading
- No toxic paints or coatings

| <b>PARTS &amp; MATERIALS</b> |                                   |
|------------------------------|-----------------------------------|
| Body                         | Aluminum Alloy 6061-T6            |
| Cover                        | Aluminum Alloy 6061-T6            |
| Hinge Pin                    | Commercial Bronze                 |
| Roll Pin                     | Stainless Steel ASTM A-276 TY.304 |
| Cross Member                 | Aluminum Alloy 6061-T6            |
| Lift Tab                     | Aluminum Alloy 6061-T6            |
| Cover Seal                   | Neoprene Rubber ASTM: D-2000      |

UHO-30SQ-AL

| <b>PARTS &amp; MATERIALS</b> |                                   |
|------------------------------|-----------------------------------|
| Body                         | Stainless Steel ASTM A-276 TY.304 |
| Cover                        | Stainless Steel ASTM A-276 TY.304 |
| Hinge Pin                    | Commercial Bronze                 |
| Roll Pin                     | Stainless Steel ASTM A-276 TY.304 |
| Cross Member                 | Stainless Steel ASTM A-276 TY.304 |
| Lift Tab                     | Stainless Steel ASTM A-276 TY.304 |
| Cover Seal                   | Neoprene Rubber ASTM: D-2000      |

UHO-30SQ-SS



## UHO-30-SS STAINLESS STEEL FLAP GATE

### Description

Mechanical Associates flap gates are made of stainless steel or aluminum, depending on the type of service. A small differential pressure on the back of the gate causes it to open automatically to allow discharge through levees, sewer lines or drainage conduits. When water on the face side of the gate rises above water on the back side, the gate closes automatically to prevent backflow.

### Construction

The frame shall be stainless steel of flatback, spigotback or flangeback design. The stainless steel cover shall be attached to the frame in such a manner as to allow proper seating and full opening of cover. Built in stops shall be provided to prevent the cover from rotating sufficiently to become wedged in the open position. A resilient neoprene seal shall be attached to the inside of the frame opening and shall act as a seat for the cover to seal against. The seal shall be retained by a stainless steel ring bolted to the frame.

The linkage system shall be of the single or double pivoted type, attached to fixed pivot points on cover and frame. Hinge links shall be of structural stainless steel shapes. The heavily reinforced hinge arm of the Model UHO-30 is fastened to the pivot lug by means of heavy stainless steel hinge pins inserted through a durable 660 bronze bushing. The hinge pin is arranged in a double shear configuration at extremely close tolerances thus severely limiting lateral movement. This, in conjunction with the protruding neoprene rubber seat (in lieu of a recessed seat) insures positive seating at all times regardless of the angle of tidal or flow hydraulics.

### Seat (Frames)

Mechanical Associates provides a J-Bulb Neoprene seat for all Flap Gates to provide the best seating surface for the gate.

### Flaps (Covers)

Flaps are stainless steel dome shaped with a 10% concaved shape bump for added strength.

### Double-Hinge Option

Mechanical Associates flap gates are provided with single or double action pivot points with bushings at each pivot point. When using a double pivot, it is necessary that bottom hinge action be limited. Otherwise, the flap can turn completely over on itself and wedge back in the opening of the gate seat, rendering the gate useless. Heavy-duty circular opening flap gates are provided with hinge arms extending beyond the bottom pivot point. This limits the double-hinge action and prevents the flap from being rotated outward at the bottom. In addition, the bottom end of each hinge arm has fine adjustment bolts to further limit the double-hinge action. Square or rectangular opening flap gates are also provided with extended links for fine adjustment even though the bottom of the flap cannot be turned into the gate opening as in the round gates.

### Lubrication of Pivot Points

Lubrication of pivot points on Mechanical Associates' flap gates is not necessary by design.

### Leakage

Leakage through flap gates decreases as head increases. At very low heads, there may be insufficient force to fully effect a tight, intimate fit of the seats, and somewhat greater leakage is likely.

### Opening Pressure

Any significant depth of water behind the gate will cause the cover to unseat a crack and allow drainage. The pivot lug can be adjusted for more or less sensitivity. When adjusted for less sensitivity, greater depth of water (back pressure) will be needed to crack the gate open. Generally, flap gates cannot hold more than a few inches of backwater for an extended length of time.



# UHO-30 INSTALLATION

## UHO-30 FLAP GATE INSTALLATION

The UHO-30 is a grout on gate. It has no groutless gasket on backside of gate.

1. Use gate as template to locate anchor holes. Make sure gate is centered over opening in wall.
2. Drill holes in wall insuring that holes will be straight and at proper depth.
3. Clean holes using compressed air. Install anchors using manufacturer recommendations on suitable epoxy being used.
  - A. Are the anchors straight?
  - B. Are the anchors protruding enough?
  - C. Let epoxy cure.
4. Install anchor nut on studs and run nuts down against wall. Slide gate onto anchors and backside of frame up against nuts.
5. Install washers and retaining nuts on front side of gate loosely and check for the following:
  - A. Does gate go over anchors without binding? If not, adjust.
  - B. Is gate hanging plum and straight? It is customary to have a 1" gap between gate and wall, as this will allow for packing grout between gate and wall.
  - C. The nut between the wall and the frame, and the nut on the front side of frame are used to suspend the gate plum with the wall. Your grout gap will vary depending on how straight and flat the wall is.
  - D. When gate has been properly spaced from wall, set plum and straight and anchor nuts snugged down. The space between gate frame and wall is then packed with grout and allowed to cure. A non-shrink grout is typical for this application.
6. Do not allow grout to get onto gate seals, backside of slide, seal retainer, retainer bolts or the flush bottom seal. If this happens, wipe clean before it cures.



# GASKET CHANGEOUT INSTRUCTIONS

FLAP GATE | UHO-30

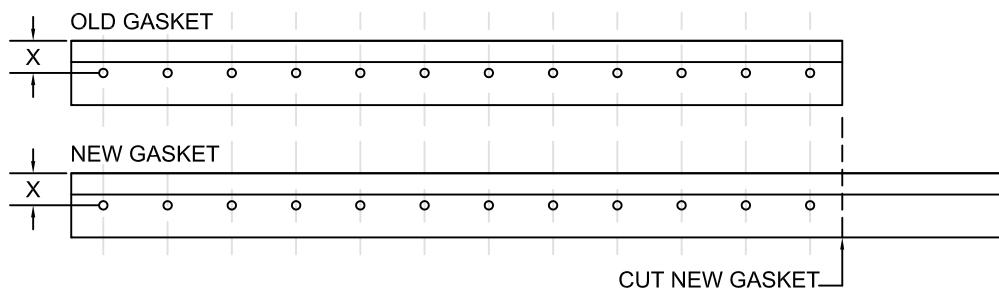
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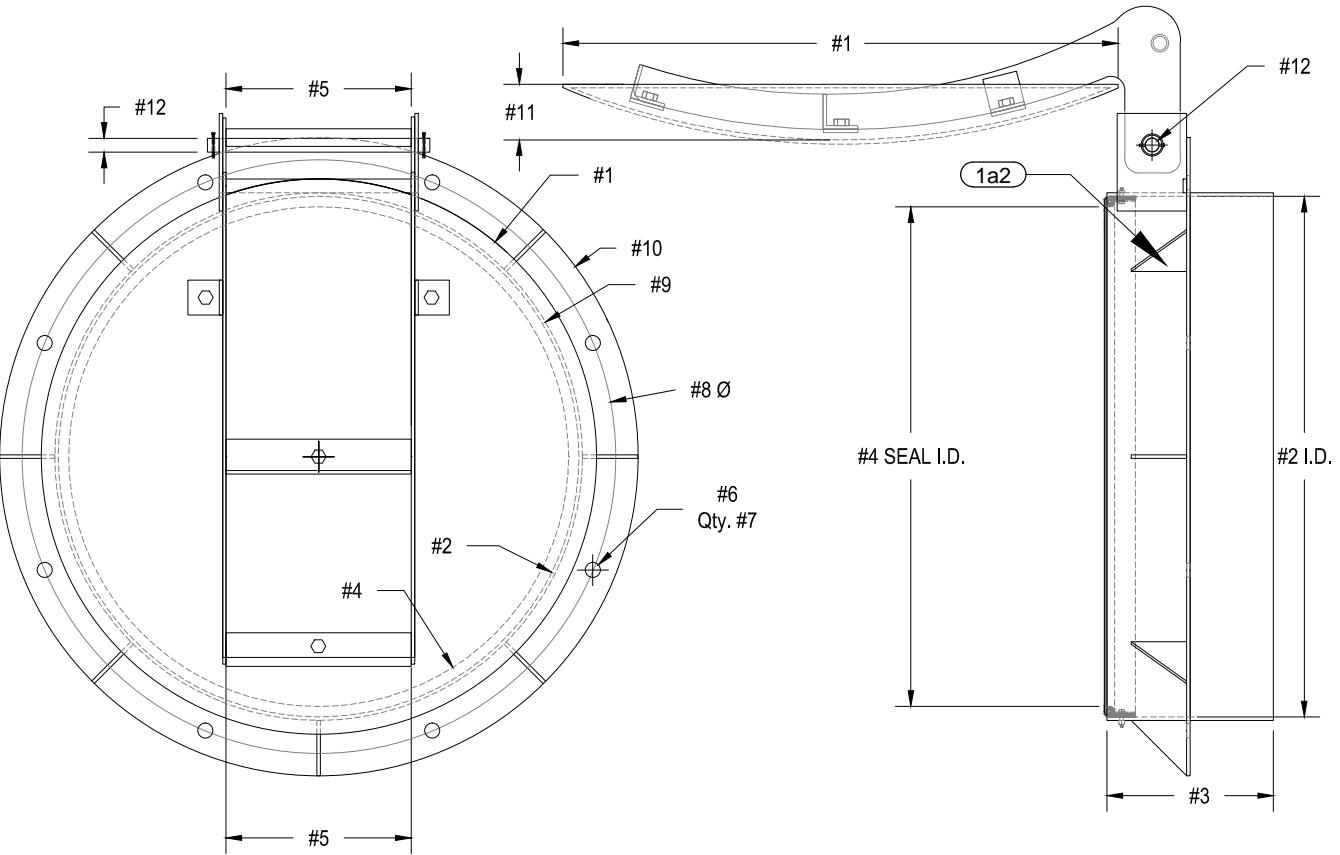
Because UHO-30 Flap Gates are tailor made per customer specifications and pipe size, the gaskets vary in size. Following these simple instructions, the gasket can be removed and replaced with a new gasket.

## STEPS:

1. Open cover, tying it open so it remains open and out of the way of the orifice.
2. Remove gasket retainer bolts and nuts, remove old gasket.
3. Cut old gasket at its seam and lay straight out on flat surface. Place new gasket just below old gasket and cut to length of old gasket.
4. Layout hole locations onto new gasket from old gasket and drill or punch 1/4" holes.
5. Glue ends of new gasket together using provided adhesive, following instructions posted on adhesive container.
6. New gasket is ready to install.

Note: We can send you a new gasket that matches your current gaskets size and bolt pattern. Simply remove the gasket according to steps 1 and 2 in the above instructions, and ship your gasket to Mechanical Associates.





DETAIL TITLE #:

## 36" UHO 30 FLAP GATE



**Mechanical  
ASSOCIATES**

PROJECT:

PROJECT  
CITY, ST

REVISION #:

0

JOB NO.

N/A

QUOTE ITEM NUMBER:

N/A

DRAWN BY:

T.A.C.

CHECKED BY:

D.E.

PAGE NO.

PAGE 1 OF 1

SCALE:

N.T.S.

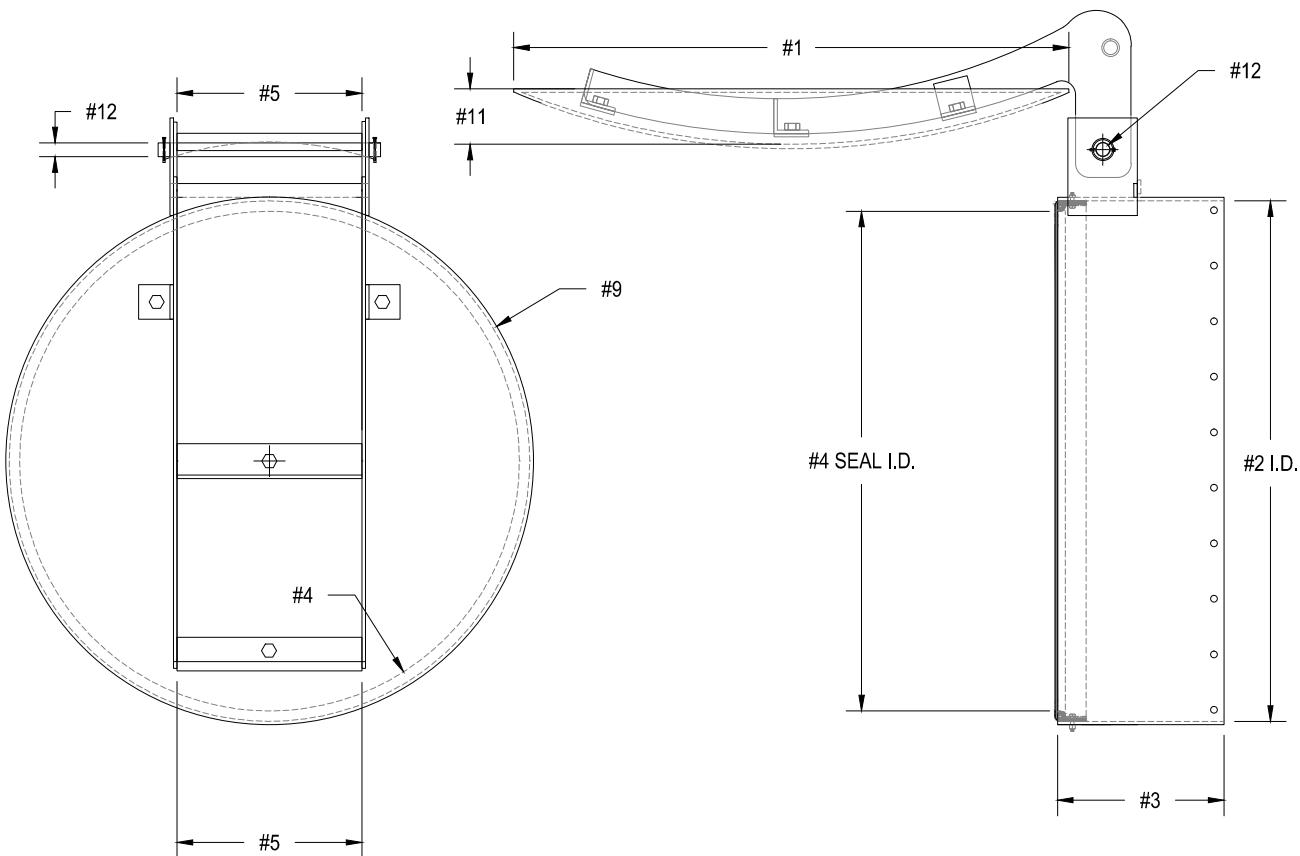
DATE:

2015

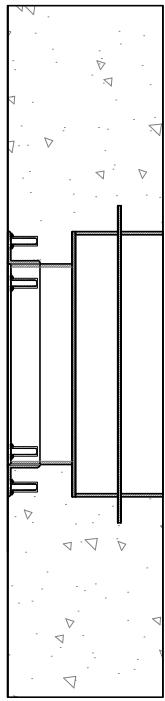
MA DETAIL NO.

UHO-30

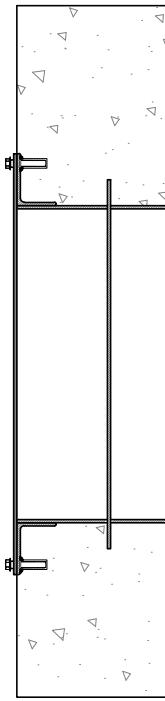
| GATE SIZE - |            | 36 | UHO-30 FLAP GATE DIMENSION |   |             |    |             |    |          |    |           |
|-------------|------------|----|----------------------------|---|-------------|----|-------------|----|----------|----|-----------|
| #           | COVER O.D. | #  | SPIGOT I.D.                | # | SPIGOT (L)  | #  | SEAL I.D.   | #  | 15       | #  | B.H. SIZE |
| 1           | 39         | 2  | 37.5                       | 3 | 8           | 4  | 36          | 5  | N/A      | 6  | 0.75      |
| #           | B.H. QTY   | #  | B.H. DIA.                  | # | FLANGE I.D. | #  | FLANGE O.D. | #  | 10% DISH | #  | PIN SIZE  |
| 7           | 8          | 8  | N/A                        | 9 | 38          | 10 | N/A         | 11 | YES      | 12 | 7/8"      |



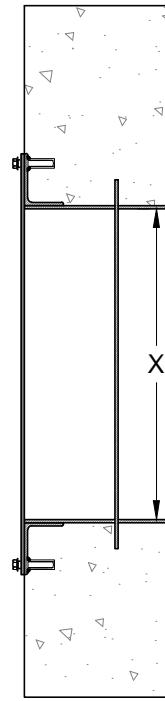
|  |                                  |                           |                         |
|--|----------------------------------|---------------------------|-------------------------|
| DETAIL TITLE #:  | 36" UHO<br>FLAP GATE SPIGOT BACK | REVISION #:               | JOB NO.                 |
|  |                                  | 0                         | N/A                     |
| PROJECT:   | PROJECT<br>CITY, ST              | QUOTE ITEM NUMBER:<br>N/A | DRAWN BY:<br>T.A.C.     |
| Mechanical<br>ASSOCIATES                                       |                                  | CHECKED BY:<br>D.E.       | PAGE NO.<br>PAGE 1 OF 1 |
|  |                                  | SCALE:<br>N.T.S.          | DATE:<br>2015           |
| MECHANICAL ASSOCIATES ~ 745 BROADWAY STREET ~ FRESNO, CA 93721 |                                  | MA DETAIL NO.             | UHO-30                  |



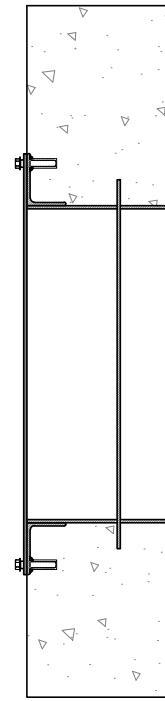
CUSTOM  
WALL THIMBLE



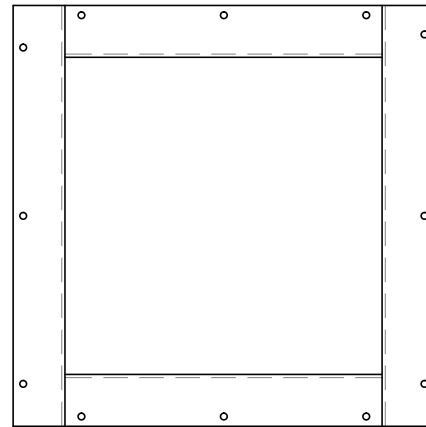
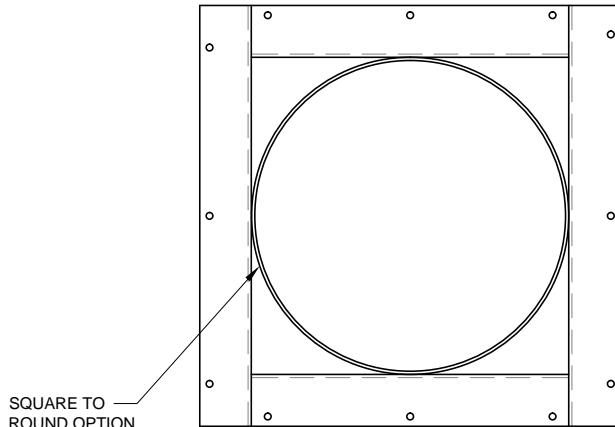
TYPE "E"  
WALL THIMBLE



TYPE "F"  
WALL THIMBLE



TYPE "MJ"  
WALL THIMBLE



WALL THIMBLES

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|  |  |                        |                      |
|--|--|------------------------|----------------------|
| DETAIL TITLE #:<br><b>FC-SS<br/>WALL THIMBLES</b>              |  | REVISION #: 0          | JOB NO. N/A          |
| PROJECT: <b>Mechanical<br/>ASSOCIATES</b>                      |  | QUOTE ITEM NUMBER: N/A | DRAWN BY: T.A.C.     |
| PROJECT<br>CITY, ST  |  | CHECKED BY: D.E.       | PAGE NO. PAGE 1 OF 1 |
|  |  | SCALE: N.T.S.          | DATE: 2015           |
| MECHANICAL ASSOCIATES ~ 745 BROADWAY STREET ~ FRESNO, CA 93721 |  |                        | MA DETAIL NO. FC-SS  |

## Mechanical Associates: Past Projects and References

**Note:** Gate sizes and application usage, we can provide round and square opening flap gates (Depending on head pressures, gates sizes can vary in the three categories)

**Light Duty:** 4"-30" Circular Opening Gate Sizes

**Medium Duty:** 31"-60" Circular Opening Gate Sizes

**Heavy Duty:** 61" and Up Circular Opening Gate Sizes

**Seals:**

J-Bulb (J): D 2000 Neoprene, EPDM

(Project Specifics available upon request)

|   |                      |                              |                       |  |
|---|----------------------|------------------------------|-----------------------|--|
| 1 | <b>Project:</b>      |                              | <b>Location:</b>      | Fairfield, CA                                    |
|   | <b>Product Type:</b> | UHO 30 Flap Gate             | <b>Contractor:</b>    | Wetland Construction                             |
|   | <b>Seal Type:</b>    | J                            | <b>Engineer:</b>      | Josh Knols                                       |
|   | <b>Equipment:</b>    | 36" UHO 30 SB, 24" UHO 30 SB | <b>Owner:</b>         |  |
| 2 | <b>Project:</b>      |                              | <b>Location:</b>      | Fairfield, CA                                    |
|   | <b>Product Type:</b> | UHO 30 Flap Gate             | <b>Contractor:</b>    | Wetland Construction                             |
|   | <b>Seal Type:</b>    | J                            | <b>Customer</b>       | Josh Knols<br>707-422-6848                       |
|   | <b>Equipment:</b>    | 42 UHO SB                    | <b>Representative</b> |  |
| 3 | <b>Project:</b>      |                              | <b>Location:</b>      |  |
|   | <b>Product Type:</b> | UHO 30 Flap Gate             | <b>Contractor:</b>    |  |
|   | <b>Seal Type:</b>    | J                            | <b>Engineer:</b>      |  |
|   | <b>Equipment:</b>    | 18" UHO 30 SB                | <b>Representative</b> | A & E Associates<br>Asher Tingle<br>302-324-5355 |
| 4 | <b>Project:</b>      | Woodland WWTP                | <b>Location:</b>      |  |
|   | <b>Product Type:</b> | UHO 30 Flap Gate             | <b>Contractor:</b>    | Teichert Construction                            |
|   | <b>Seal Type:</b>    | J                            | <b>Owner</b>          | Tim Robben<br>530-406-4260                       |
|   | <b>Equipment:</b>    | 12" UHO 30 FB                | <b>Representative</b> | Dustin Roush<br>916-381-6100                     |
| 5 | <b>Project:</b>      | Woods Valley Rach WRF        | <b>Location:</b>      | Danville, CA 94526                               |
|   | <b>Product Type:</b> | UHO 30 Flap Gate             | <b>Contractor:</b>    | C.W. Roen Construction                           |
|   | <b>Seal Type:</b>    | J                            | <b>Engineer:</b>      | Ryan James                                       |
|   | <b>Equipment:</b>    | 17" UHO 30 FB                | <b>Owner:</b>         | Valley Center Municipal Water District           |

|    |                      |                                 |                       |  |
|----|----------------------|---------------------------------|-----------------------|--|
| 6  | <b>Project:</b>      | Suisun City, CA 94585           |                       |  |
|    | <b>Product Type:</b> | UHO 30 Flap Gate                | <b>Contractor:</b>    | California Waterfowl Association Robert Eddings 916-275-1007   |
|    | <b>Seal Type:</b>    | J                               | <b>Representative</b> |  |
|    | <b>Equipment:</b>    | 20" UHO 30 FB                   | <b>Owner:</b>         |  |
| 7  | <b>Project:</b>      | Cresent Unit 1511-023           | <b>Location:</b>      | Suisun City, CA 94585  |
|    | <b>Product Type:</b> | UHO 30 Flap Gate                | <b>Contractor:</b>    | California Waterfowl Association Robert Eddings 916-275-1007   |
|    | <b>Seal Type:</b>    | J                               | <b>Representative</b> |  |
|    | <b>Equipment:</b>    | 28.125 " UHO 30 SB w/ Draw Band | <b>Owner:</b>         |  |
| 8  | <b>Project:</b>      | Planada WWTP                    | <b>Location:</b>      | LeGrand, CA  |
|    | <b>Product Type:</b> | UHO 30 Flap Gate                | <b>Contractor:</b>    | Clark Bros Inc. Lawrence Clark 209-392-6144                    |
|    | <b>Seal Type:</b>    | J                               | <b>Engineer:</b>      |  |
|    | <b>Equipment:</b>    | 24" UHO 30 FB Curved Flange     | <b>Owner:</b>         |  |
| 9  | <b>Project:</b>      | GWIA DRIPS                      | <b>Location:</b>      | Suisun City, CA 94585  |
|    | <b>Product Type:</b> | UHO 30 Flap Gate                | <b>Contractor:</b>    | California Waterfowl Association Robert Eddings 916-275-1007   |
|    | <b>Seal Type:</b>    | J                               | <b>Representative</b> |  |
|    | <b>Equipment:</b>    | 30" UHO 30 SB w/ Draw Band      | <b>Owner:</b>         |  |
| 10 | <b>Project:</b>      | Grizzly Island Habitat          | <b>Location:</b>      | Suisun City, CA 94585  |
|    | <b>Product Type:</b> | UHO 30 Flap Gate                | <b>Contractor:</b>    | Department of Fish and Wildlife Shirley Arrington 707-425-3828 |
|    | <b>Seal Type:</b>    | J                               | <b>Engineer:</b>      |  |
|    | <b>Equipment:</b>    | 24" UHO 30/10 SB                | <b>Representative</b> |  |
| 11 | <b>Project:</b>      | Johnson Davis                   | <b>Location:</b>      |  |
|    | <b>Product Type:</b> | UHO 30 Flap Gate                | <b>Contractor:</b>    | Contech Engineered Solutions Tom Masterson 561-723-0056        |
|    | <b>Seal Type:</b>    | J                               | <b>Engineer:</b>      |  |
|    | <b>Equipment:</b>    | 36", 48", 54" UHO 30 SB         | <b>Representative</b> |  |

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|    |                      |                                  |                       |                                    |
|----|----------------------|----------------------------------|-----------------------|------------------------------------|
| 12 | <b>Project:</b>      | I95-CP2                          | <b>Location:</b>      |                                    |
|    | <b>Product Type:</b> | UHO 30 Flap Gate                 | <b>Customer</b>       |                                    |
|    | <b>Seal Type:</b>    | J                                | <b>Engineer:</b>      |                                    |
|    | <b>Equipment:</b>    | 72" SQ UHO 30 FB                 | <b>Representative</b> | A & E<br>Associates                |
|    |                      |                                  |                       | Asher Tingle<br>302-689-4385       |
| 13 | <b>Project:</b>      | Phase II Prado Dam               | <b>Location:</b>      | Corona, CA                         |
|    | <b>Product Type:</b> | UHO 30 Flap Gate                 | <b>Contractor:</b>    | Long Beach<br>Iron Works           |
|    | <b>Seal Type:</b>    | J                                | <b>Engineer:</b>      | 562-432-5451                       |
|    | <b>Equipment:</b>    | 72" UHO 30 SS, 60 x 72 SQ UHO 30 | <b>Representative</b> |                                    |
| 14 | <b>Project:</b>      |                                  | <b>Location:</b>      |                                    |
|    | <b>Product Type:</b> | UHO 30 Flap Gate                 | <b>Contractor:</b>    | Contech<br>Engineered<br>Solutions |
|    | <b>Seal Type:</b>    | J                                | <b>Engineer:</b>      | Tom Masterson<br>561-723-0056      |
|    | <b>Equipment:</b>    | 96 x 96 SQ UHO 30 SS             | <b>Owner:</b>         |                                    |
| 15 | <b>Project:</b>      | American Basin Fish Screen       | <b>Location:</b>      |                                    |
|    | <b>Product Type:</b> | UHO 30 Flap Gate                 | <b>Contractor:</b>    | HD Supply                          |
|    | <b>Seal Type:</b>    | J                                | <b>Engineer:</b>      |                                    |
|    | <b>Equipment:</b>    | 24" UHO 30 AL                    | <b>Representative</b> |                                    |

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