

**Mechanical**  
ASSOCIATES



**MUD VALVE  
PRODUCT INFORMATION**

2016 Edition

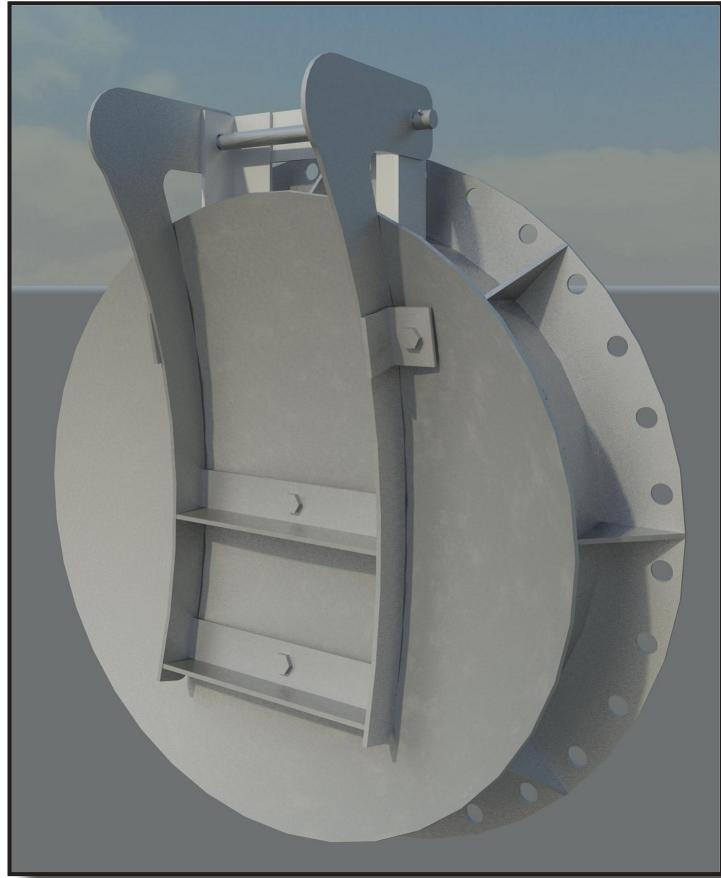


**Mechanical Associates** began manufacturing in 1993. Over the past 22 years we have developed or improved many of the products used in the water control gate market today.

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**

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## 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

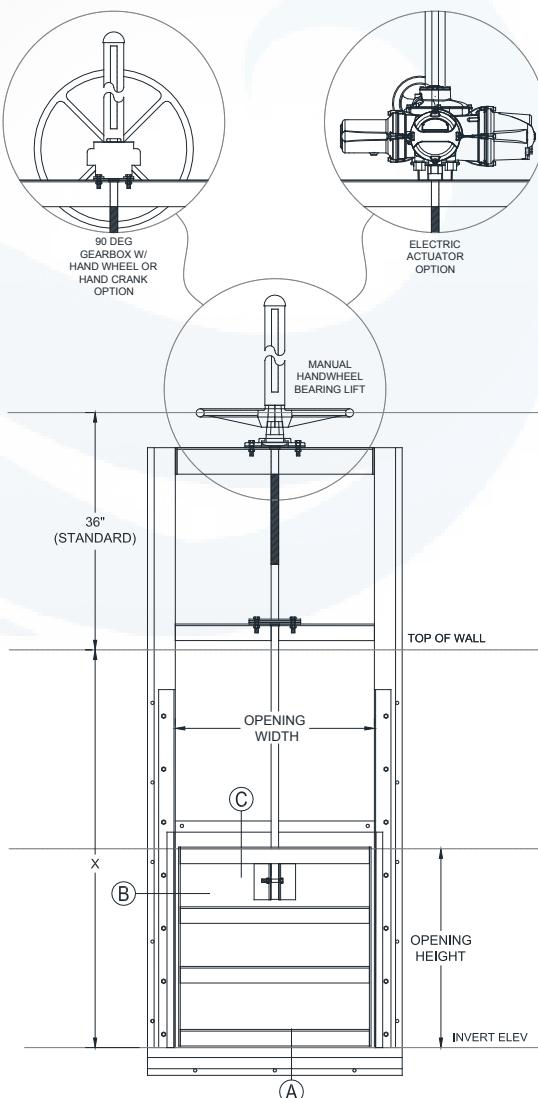
By listening to our customers over the past 22 years Mechanical Associates has developed and/or improved a variety of the products used in the water control gate market today. Through innovation and careful collaboration with our customers, Mechanical Associates provides the best possible solution to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

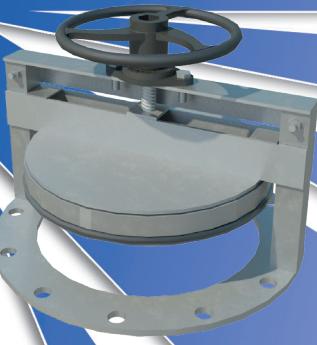
## QUALITY

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-MV-SS STAINLESS STEEL MUD VALVE



#### Mud Valve

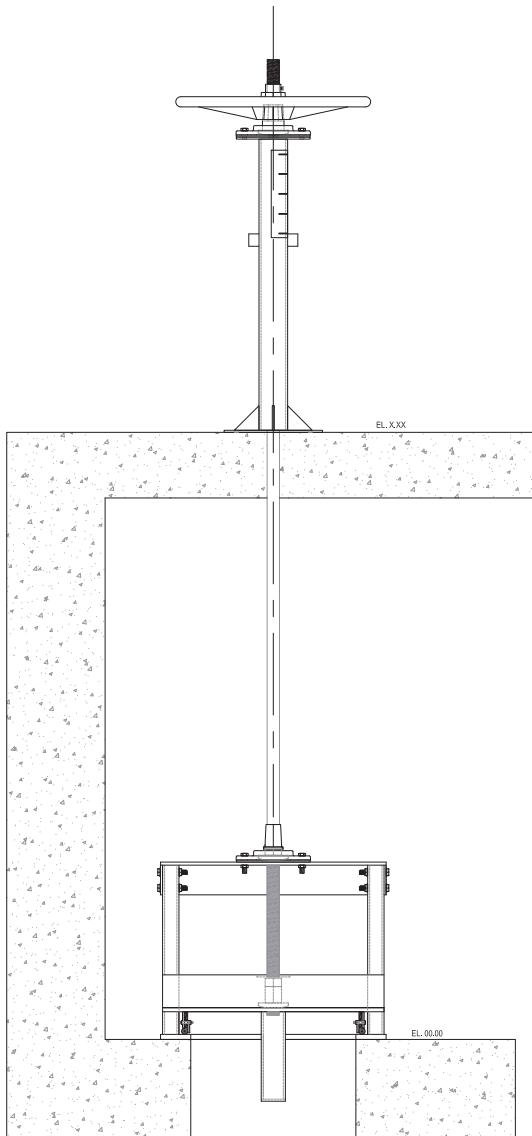
Model: UHO-MV-SS

- 304 or 316 stainless steel construction
- Stainless steel non rising stem
- Replacable neoprene rubber seals
- Outlet configured for a standard 125 lb flange
- Operating pressure: 30 ft. of head
- Handwheel extensions available
- Will outlast cast iron, no rust or corrosion
- Available in sizes 4" - 30"
- Also available in custom sizes
- Customize Per Application
- **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..

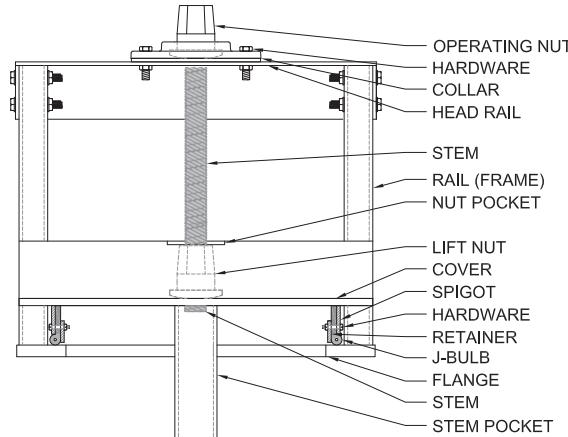


**STAINLESS STEEL MUD VALVE  
UHO-MV-SS**

**FEATURES:**

- 304 or 316 Stainless Steel Construction
- Stainless Steel Non-Rising Stem
- Replaceable High Carbon Rubber Seals
- Outlet Configured for Standard 125 lbs. Flange
- Operating Pressure: 30 ft. of Head
- Sizes Available: Standard 10" - 24"
- Customize per Customer Specifications
- Non environmentally degrading
- No toxic paints or coatings

**OPTIONS:**

- Custom Sizes
- Handwheel Extension

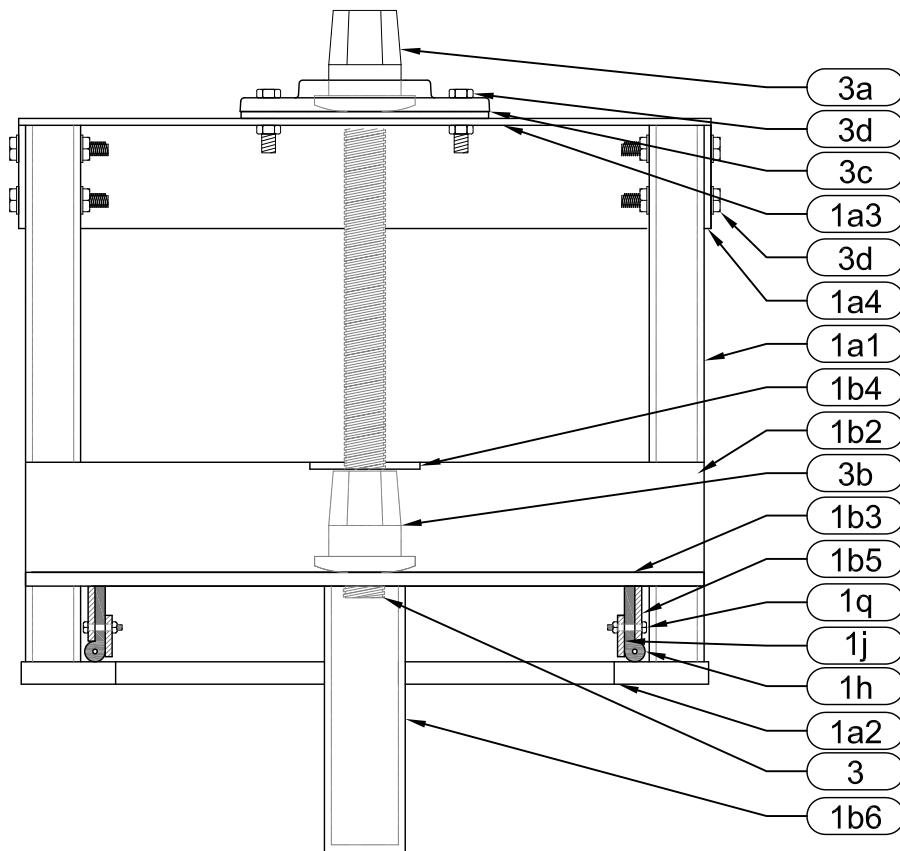

**PARTS & MATERIALS**

Handwheel	CAST IRON ASTM A-126
Bolts & Nuts	STAINLESS STEEL ASTM A-276
Seal Retainer	STAINLESS STEEL ASTM A-276
J-Bulb	NEOPRENE RUBBER ASTM D-2000
Lift Nut	COMMERCIAL BRONZE
Collar	CAST IRON ASTM A-126
Stem	STAINLESS STEEL ASTM A-276
Frame	STAINLESS STEEL ASTM A-276
Disk	STAINLESS STEEL ASTM A-276
Stem Pocket	STAINLESS STEEL ASTM A-276

UHO-MV-SS



ITEM DESCRIPTION	MATERIAL KEY	PART NO. OR SIZE	QTY
1. MUD VALVE FRAME			
a) FRAME WELDMENT	S.S.		1
1) TUBE RAIL	S.S.	2 X 1 X 1/8 HSS	2
2) FLANGE	S.S.	1/4 PLATE SPFH0400-8	1
3) HEAD RAIL	S.S.	4 X 4 X 3/8 ANGLE	1
4) HEAD RAIL END BRACKET	S.S.	1/4 PLATE	
b) SLIDE WELDMENT	S.S.		1
1) CROSS RAIL	S.S.	1/4 X 3 FLAT BAR	2
2) FLAT HORIZONTAL	S.S.	1/4 X 1-1/2 FLAT BAR	2
3) DISC	S.S.	1/2 PLATE	1
4) NUT POCKET	S.S.	1/4 X 2-1/2 FLAT BAR	1
5) SPIGOT	S.S.	1/8 X 2 FLAT BAR	1
6) STEM POCKET	S.S.	2 SCHD 10 PIPE	1
h) J-BULB	NEOP	STD EXTRUSION 1/4 LEG	1
j) SEAL RETAINER-ROUND DRAWBAND	S.S.	1/8 X 1-1/2 FLAT BAR	1
p) HEX HEAD BOLT & NUT (HEAD RAIL BRACKET)	S.S.	1/2 X 3 LG W/NYLOC NUT	2/2
q) FLANGE BOLTS	S.S.	5/8" X 2" LG.	8
3. STEM-ROLLED THREADS-NRS	S.S.	1-1/2 DIA., 4 T.P.I, LH	1
a.) OPERATING NUT-NRS NUT POCKET	BRNZ	BRONZE	1
b.) LIFT NUT	BRNZ	BRONZE	1
c.) LARGE COLLAR ASSEMBLY - H2	S.S.	STAINLESS STEEL COLLAR	1
d.) HEX HEAD BOLT W/NUT & WASHER	S.S.	5/8 NC X 1-1/2 LG. W/NYLOC NUT	2/2/2



DETAIL TITLE #:

# MUD VALVE

## UHO-MV-SS

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



**Mechanical**  
ASSOCIATES

PROJECT:

PROJECT  
CITY, ST

MECHANICAL ASSOCIATES ~ 745 BROADWAY STREET ~ FRESNO, CA 93721

MA DETAIL NO.

UHO-MV-SS

## Mechanical Associates: Past Projects and References

**Note:** Gate sizes and application usage (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

**Light Duty:** 3"x 3" -30"x30" Square Opening Gate Sizes

**Medium Duty:** 31"x31" -60"x60" Square Opening Gate Sizes

**Heavy Duty:** 61"x61" and Up Square Opening Gate Sizes

**Seals:**

**UHMW-PE:** Ultra High Molecular Weighted Polyethylene (P)

**J-Bulb:** D 2000 Neoprene (J)

**Flush Bottom Seal:** D 2000 Neoprene (FBS)

(Project Specifics available upon request)

1	<b>Project:</b>	Emerald Trunk Sewer Relief	<b>Location:</b>	Modesto, CA 95353	
	<b>Product Type:</b>	Bulkhead Gates	<b>Contractor:</b>	McGuire & Hester	(510)- 632-7676
	<b>Seal Type:</b>	P, FBS	<b>Engineer:</b>	Carollo /North Star Engineering Group	(209)- 524-3525
	<b>Equipment:</b>	(5) Heavy Duty	<b>Owner:</b>	City of Modesto	
2	<b>Project:</b>	Sweetster	<b>Location:</b>	Dayton, OH 45414	
	<b>Product Type:</b>	DO Weir	<b>Contractor:</b>	R.G. Zachrich Construction, Inc.	(419) 782-7846
	<b>Seal Type:</b>	P, FBS	<b>Engineer:</b>		
	<b>Equipment:</b>	(2) Medium Duty	<b>Representative :</b>	WP Kolens	(440) 262-3163
3	<b>Project:</b>	Marcy's Orchard (Buy America Certs)	<b>Location:</b>	Orem, UT 84057	
	<b>Product Type:</b>	Slide Gates	<b>Contractor:</b>	Geneva Pipe Company	(801) 225-2416
	<b>Seal Type:</b>	J	<b>Engineer:</b>		
	<b>Equipment:</b>	(3) Light Duty	<b>Owner:</b>		
4	<b>Project:</b>	Walnut Creek Gun Club	<b>Location:</b>	Fairfield, CA 94534	
	<b>Product Type:</b>	Flap Gate	<b>Contractor:</b>		
	<b>Seal Type:</b>	J	<b>Engineer:</b>	California Waterfowl Association	(916) 275-1007
	<b>Equipment:</b>	(1) Medium Duty	<b>Owner:</b>		
5	<b>Project:</b>	GIWA Ponds 7-8	<b>Location:</b>	Suisun City, CA 94585	
	<b>Product Type:</b>	Flap Gate	<b>Contractor:</b>		
	<b>Seal Type:</b>	J	<b>Engineer:</b>	California Waterfowl Association	(916) 275-1007
	<b>Equipment:</b>	(1) Medium Duty	<b>Owner:</b>		

6	<b>Project:</b>		<b>Location:</b>	Palatka, FL 32177
	<b>Product Type:</b>	Slide Gate	<b>Contractor:</b>	
	<b>Seal Type:</b>	J	<b>Engineer:</b>	
	<b>Equipment:</b>	(2) Medium Duty	<b>Owner:</b>	St. Johns River Water Management District (386) 329-4313
7	<b>Project:</b>	GIWA Ponds 5-8	<b>Location:</b>	Suisun City, 94585
	<b>Product Type:</b>	Slide Gate	<b>Contractor:</b>	
	<b>Seal Type:</b>	J	<b>Engineer:</b>	California Waterfowl Association (916) 275-1007
	<b>Equipment:</b>	(2) Medium Duty	<b>Owner:</b>	
8	<b>Project:</b>	Dublin San Ramon Service District (Vactor Receiving Station)	<b>Location:</b>	Dublin, CA 94568
	<b>Product Type:</b>	Slide Gate, DO Weir Gate	<b>Contractor:</b>	JMB Construction Inc.
	<b>Seal Type:</b>	J, P, FBS	<b>Engineer:</b>	Sean Quinn Carollo
	<b>Equipment:</b>	(2) Medium Duty w/ Wall Thimbles	<b>Owner:</b>	Dublin San Ramon Service District (925) 828- 0515
9	<b>Project:</b>	City of North Pole	<b>Location:</b>	Fairbanks, AK 99701
	<b>Product Type:</b>	DO Weir	<b>Contractor:</b>	Ferguson Fairbanks # 3022 Tim Balty
	<b>Seal Type:</b>	J	<b>Engineer:</b>	
	<b>Equipment:</b>	(2) Medium Duty	<b>Owner:</b>	WPCC (866) 641-7330
10	<b>Project:</b>	North Port	<b>Location:</b>	North Port, AL 35473
	<b>Product Type:</b>	Slide Gate	<b>Contractor:</b>	Ferguson Doug Pugh (205) 361-4289
	<b>Seal Type:</b>	J	<b>Engineer:</b>	
	<b>Equipment:</b>	(1) Light Duty	<b>Owner:</b>	
11	<b>Project:</b>		<b>Location:</b>	Lantana, FL 33462
	<b>Product Type:</b>	Slide Gate	<b>Contractor:</b>	Contech Engineered Solutions Jacob Waugh (713) 377-0386
	<b>Seal Type:</b>	J	<b>Engineer:</b>	
	<b>Equipment:</b>	(1) Medium Duty	<b>Owner:</b>	
12	<b>Project:</b>	High Speed Rail Improvements (Cal Trans Project)	<b>Location:</b>	Madera, CA
	<b>Product Type:</b>	Slide Gates Dual Leaf Slide Gates	<b>Contractor:</b>	Clark Bros Inc. (209) 392-6144
	<b>Seal Type:</b>	J, P	<b>Engineer:</b>	
	<b>Equipment:</b>	(3) Light Duty (3) Medium Duty (3) Heavy Duty	<b>Owner:</b>	Madera Irrigation District Sean Smith (559) 673- 3514

13	<b>Project:</b>	Eagle Point	<b>Location:</b>	Philadelphia, PA 19129
	<b>Product Type:</b>	Slide Gate	<b>Contractor:</b>	
	<b>Seal Type:</b>	J	<b>Engineer:</b>	
	<b>Equipment:</b>	(1) Light Duty (2) Medium Duty	<b>Representative</b>	A & E Associates      Asher Tingle (302) 324-5355
14	<b>Project:</b>	Ephraim City Wastewater Improvements	<b>Location:</b>	Ephraim City, UT 84627
	<b>Product Type:</b>	Sluice Gates	<b>Contractor:</b>	Terry R. Brotherson Excavating, Inc.
	<b>Seal Type:</b>	J, P	<b>Engineer:</b>	Kerry (435) 469-1248 Jones & DeMille Engineering, Inc.
	<b>Equipment:</b>	(4) Medium Duty	<b>Owner:</b>	(800) 748- 8575 City of Ephraim
15	<b>Project:</b>	Peacock Dam	<b>Location:</b>	Pinellas Park, FL 33781
	<b>Product Type:</b>	Slide Gate	<b>Contractor:</b>	Contech Engineered Soulitions
	<b>Seal Type:</b>	P	<b>Engineer:</b>	Crissy Sackle (800) 338-1122
	<b>Equipment:</b>	(1) Light Duty	<b>Owner:</b>	
16	<b>Project:</b>	Washougal Wastewater Treatment Plant	<b>Location:</b>	Washougal, WA 98671
	<b>Product Type:</b>	Sluice Gates, DO Weir Gates, Tandem	<b>Contractor:</b>	Slayden Construction Group Inc./ Ferguson
	<b>Seal Type:</b>	P, FBS	<b>Engineer:</b>	(360) 258-2166 Brown & Caldwell
	<b>Equipment:</b>	(1) Light Duty (4) Medium Duty (4) Medium Tanden Duty (2) Heavy Duty	<b>Owner:</b>	City of Washougal
17	<b>Project:</b>	Midland Scanner	<b>Location:</b>	Northport, AL 35476
	<b>Product Type:</b>	Sluice Gates	<b>Contractor:</b>	Ferguson
	<b>Seal Type:</b>	P	<b>Engineer:</b>	(205) 361-4289
	<b>Equipment:</b>	(1) Heavy Duty	<b>Owner:</b>	
18	<b>Project:</b>	Habitat Restoration (Delaware Bayshore)	<b>Location:</b>	Smynra, De 19977
	<b>Product Type:</b>	Combination Gate	<b>Contractor:</b>	State of Delaware- Division of Fish & Wildlife
	<b>Seal Type:</b>	J	<b>Engineer:</b>	(302) 735-3601
	<b>Equipment:</b>	(1) Heavy Duty	<b>Owner:</b>	

19	<b>Project:</b>		<b>Location:</b>	Port Allen, LA 70767
	<b>Product Type:</b>	Slide Gate	<b>Contractor:</b>	Marchand Construction
	<b>Seal Type:</b>	J	<b>Engineer:</b>	
	<b>Equipment:</b>	(2) Light Duty	<b>Representative</b>	Coastal Culvert (337) 546-6887
20	<b>Project:</b>	Augmentation Pond Intake Relocation	<b>Location:</b>	Fraser, CO 80442
	<b>Product Type:</b>	Slide Gate	<b>Contractor:</b>	
	<b>Seal Type:</b>	J, P	<b>Engineer:</b>	
	<b>Equipment:</b>	(1) Medium Duty	<b>Owner:</b>	Winter Park Rach Water District Jim Fox (970) 726-8691
22	<b>Project:</b>	Morongo Band Of Mission Indians WTP Improvements	<b>Location:</b>	Cabazon, CA 92230
	<b>Product Type:</b>	Stop Gates	<b>Contractor:</b>	Pacific Hydrotech Corporation Sean Finnegan (951) 943-8803
	<b>Seal Type:</b>	P	<b>Engineer:</b>	Webb & Associates (760) 568-5005
	<b>Equipment:</b>	(7) Medium Duty	<b>Owner:</b>	Morongo Band Of Mission Indians
23	<b>Project:</b>	Eastside Water Bank Site Facilities	<b>Location:</b>	
	<b>Product Type:</b>	NRS DO Weir, NRS Sluice gate	<b>Contractor:</b>	Nicholas Construction Alex Silicz (661) 619-7417
	<b>Seal Type:</b>	P	<b>Engineer:</b>	Kennedy/ Jenks Consultants
	<b>Equipment:</b>	(2) Light Duty (1) Medium Duty (3) Heavy Duty	<b>Owner:</b>	East Kern Water Agency
24	<b>Project:</b>	Planada Wastewater Treatment Plant	<b>Location:</b>	LeGrand, CA 95365
	<b>Product Type:</b>	Sluice Gates, Slide Gates, Weir Gates, Flap Gates	<b>Contractor:</b>	Clark Bros, Inc. (209) 392-6144
	<b>Seal Type:</b>	J, P, FBS	<b>Engineer:</b>	AM Consulting Engineers
	<b>Equipment:</b>	(24) Medium Duty (6) Heavy Duty (1) Flap Gate	<b>Owner:</b>	Planada Service District
25	<b>Project:</b>	Palm Meadows Estates	<b>Location:</b>	Boca Raton, FL 33434
	<b>Product Type:</b>	In Channel Sluice Gate	<b>Contractor:</b>	U.S. Custom Fab Lyn Campbell (954) 917-6161
	<b>Seal Type:</b>	P, FBS	<b>Engineer:</b>	
	<b>Equipment:</b>	(1) Heavy Duty	<b>Owner:</b>	