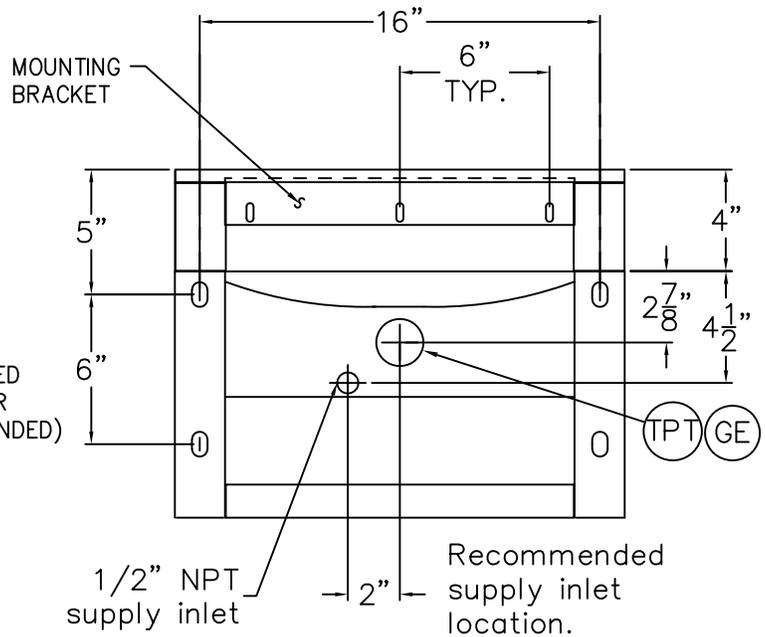
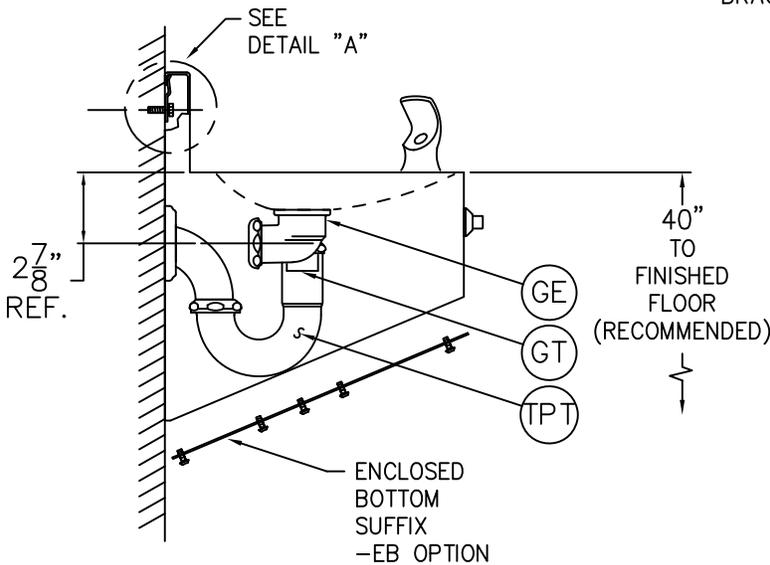
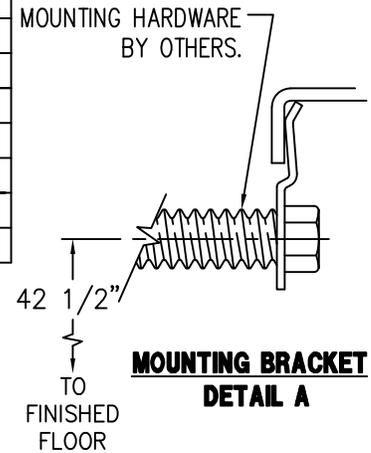
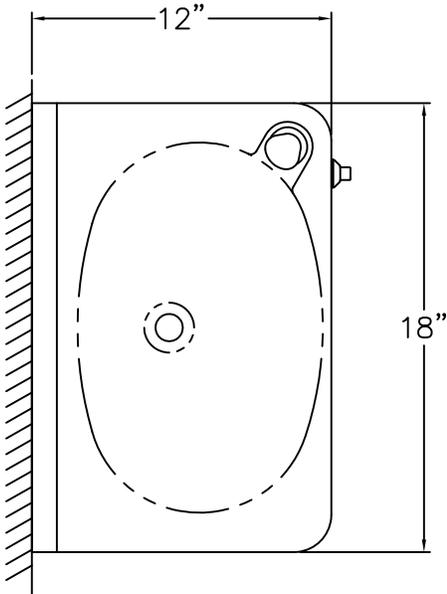




REFERENCE DRAWINGS	
INSTALLATION	
AIR-CONTROL VALVE	9905-001-003
PARTS	
VALVE BODY	9955-006-003
STOP	9956-040-003
SERVOMOTOR	9955-001-003
FIXTURE TRIM	9957-026-001



VIEW OF REAR OF FIXTURE

INSTALLATION INSTRUCTIONS

- A- INSTALL MOUNTING BRACKET. SEE DETAIL "A".
- B- INSTALL WALL ANCHORS (BY OTHERS) AND ATTACH FIXTURE.
- C- MAKE WASTE CONNECTIONS:

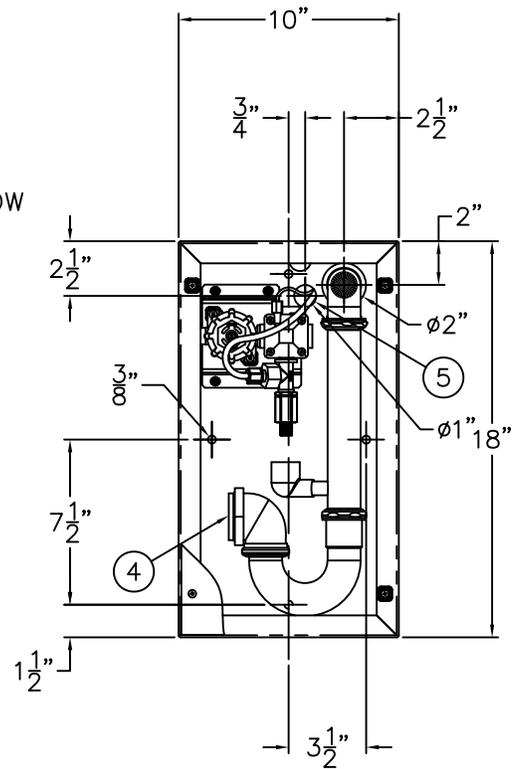
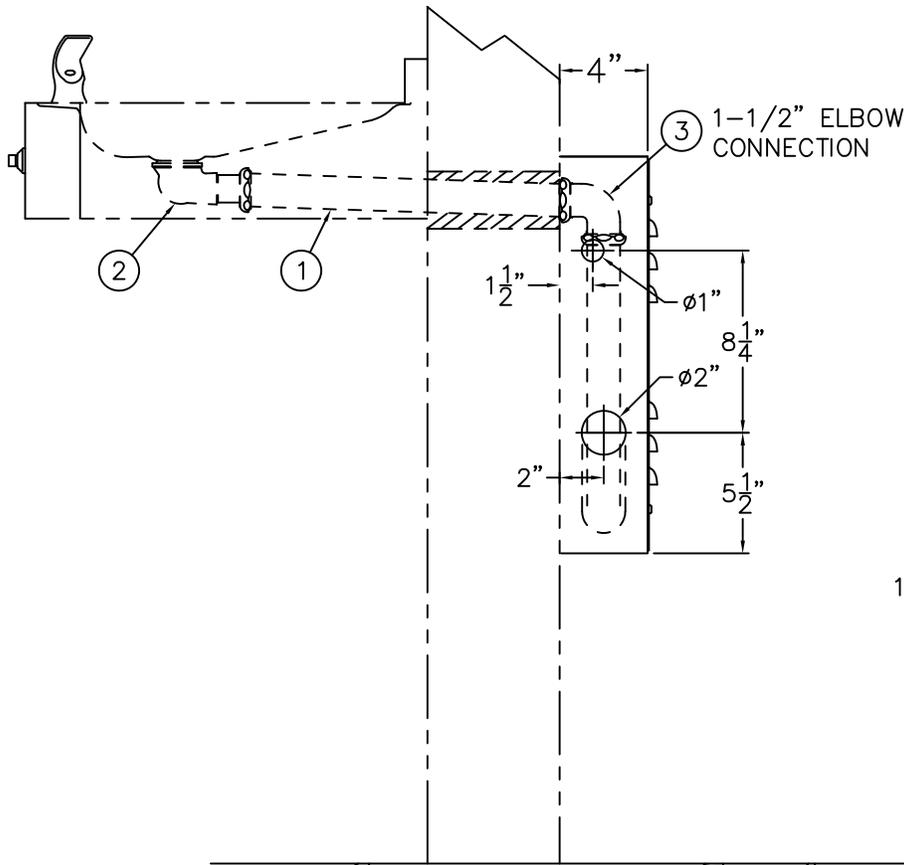
- (GE) -OPTIONAL GRID STRAINER WITH CLOSE ELBOW- 1 1/4" OD COMPRESSION CONNECTION.
- (GT) -OPTIONAL GRID STRAINER WITH TAILPIECE- 1 1/4" OD COMPRESSION CONNECTION.
- (TPT) -OPTIONAL TUBING P-TRAP 1 1/4" x 1 1/2" OD.

- D- SEE DWG #9905-001-003 FOR VALVE INSTALLATION. NOTE: AIR-CONTROL VALVE SHIPPED LOOSE.
- E- ROUGH-IN PLUMBING AND FLUSH SUPPLY LINES.

ACORN ENGINEERING COMPANY
P.O. BOX 3527 Industry, CA 91744
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TITLE DRINKING FOUNTAIN W/ SUFFIX -EB OPTION CAT. #2010		
MANUFACTURE DATE JAN 1980 TO PRESENT	DATE ISSUED 06-01-90	DRAWING NUMBER 9908-020-001
	DATE REVISED 07/15/10	

REFER TO LOCAL CODES AND/OR INDUSTRY STANDARDS FOR CORRECT WASTE DRAIN SLOPE.



ALL WALL ANCHORS AND ANCHORING HARDWARE ARE PROVIDED BY THE INSTALLER. FREEZE RESISTANT BOX MUST BE INSTALLED BEHIND FIXTURE WALL WITH TEMPERATURES THAT REMAIN ABOVE FREEZING.

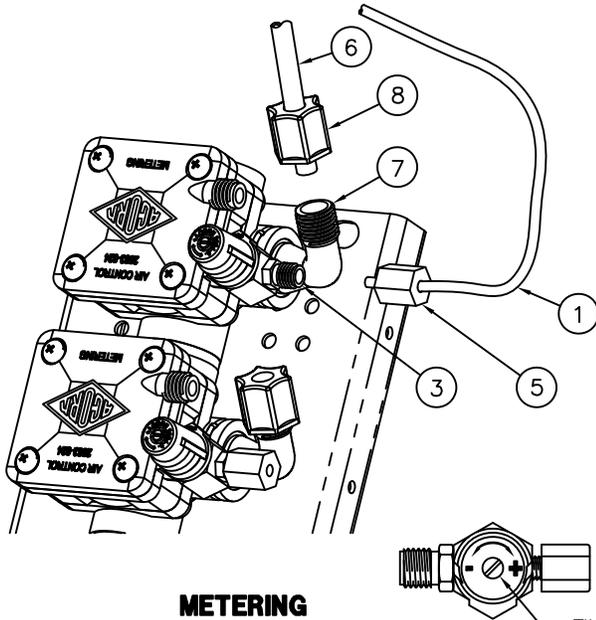
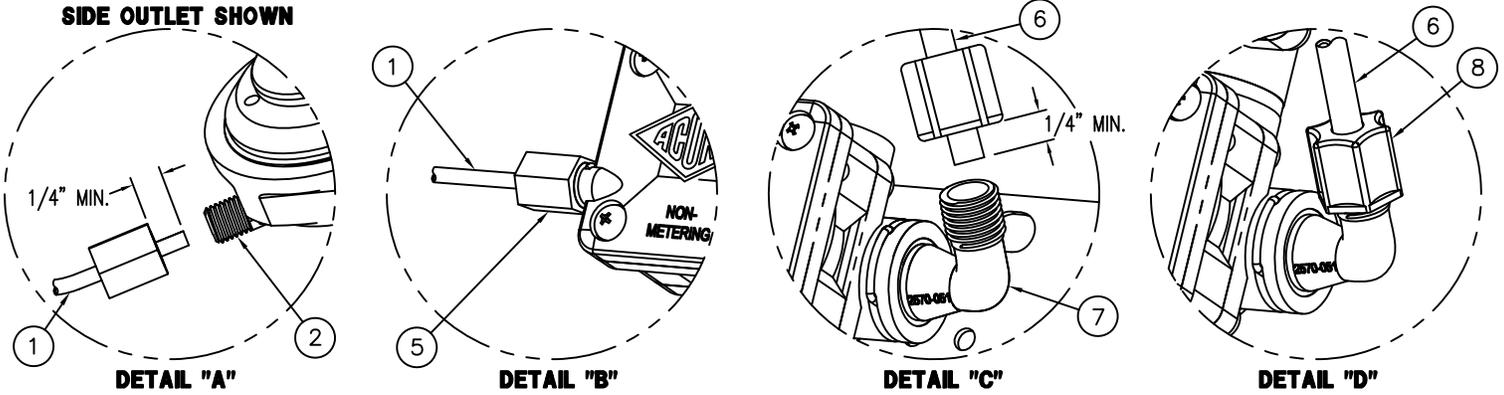
NOTE: 1/4" SUPPLY LINE FROM VALVE TO BUBBLER MUST NOT DIP DOWN BELOW THE VALVE. IT SHOULD ALSO MAINTAIN A DOWNHILL PATH WITHOUT DIPPING FROM THE BUBBLER TO THE VALVE.

INSTALLATION INSTRUCTIONS:

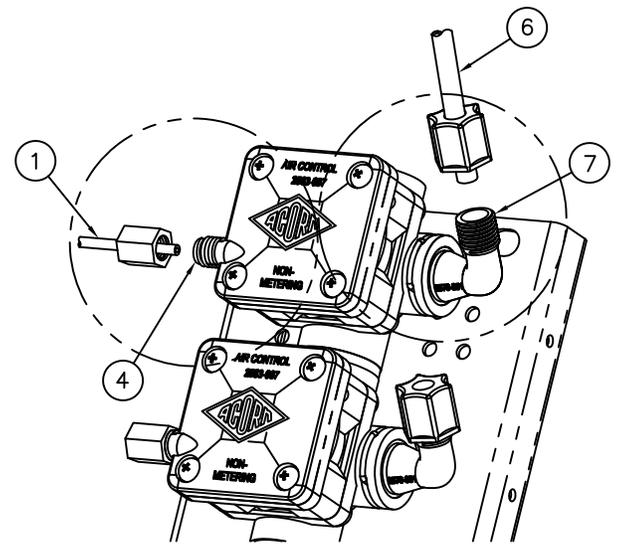
- A- INSTALL FIXTURE FOLLOWING APPROPRIATE INSTALLATION SHEETS AND PROVIDE THRU WALL OPENINGS FOR ELBOW WASTE EXTENSION (1) OUTLET AND AIR AND SUPPLY TUBING. NOTE: THRU WALL CONDUIT AND WALL INSULATION IS PROVIDED BY THE INSTALLER.
- B- ASSEMBLE WASTE EXTENSION TUBE (1) THRU WALL TO FIXTURE CLOSE ELBOW (2).
- C- ANCHOR VALVE AND WASTE BOX ON INTERIOR WALL BY ALIGNING FP ELBOW (3) WITH FIXTURE WASTE EXTENSION OUTLET (1).
- D- MAKE UP WASTE CONNECTIONS TO FP BOX 1-1/2" IPS P-TRAP WASTE OUTLET (4).
- E- CONNECT SUPPLY AND AIR TUBING FROM VALVE THRU BOX OPENING (5) TO FIXTURE BUBBLER AND PUSHBUTTON. (SEE NOTE ABOVE.)
- F- FLUSH WATER SUPPLY LINE OF ALL DEBRIS PRIOR TO CONNECTING TO VALVE. CONNECT SUPPLY LINE TO VALVE 1/2" NPS HOSE END VALVE INLET CONNECTION.
- G- ATTACH COVER TO BOX TO COMPLETE FP INSTALLATION.

 <p>MORRIS GROUP INTL P.O. BOX 3527 Industry, CA 91744 MORRIS GROUP 15125 Proctor Ave Industry, CA 91746 INTERNATIONAL (626) 336-4561 FAX (626) 961-2200</p>	<p>TITLE 1-STATION FREEZE RESISTANT BOX</p>	
	<p>MANUFACTURE DATE</p> <p>SEPTEMBER 1991</p> <p>TO PRESENT</p>	<p>DATE ISSUED</p> <p>12/14/09</p> <p>DATE REVISED</p> <p>08/05/22 A</p>

SIDE OUTLET SHOWN



METERING



**NON-METERING
DIRECT ACTING**

LAVATORY VALVES ARE FACTORY PRESET WITH A 5-20 SECOND RUN TIME. THIS WILL PROVIDE LESS THAN 1/4 GALLON (1 LITER) PER CYCLE. IF IT IS NOTED THAT VALVES ARE RUNNING LONGER THAN THIS MAXIMUM RECOMMENDED CYCLE TIME PLEASE FOLLOW THESE INSTRUCTIONS TO CORRECT THE CYCLE TIME. WHEN SET, FAUCET SHOULD NOT PRODUCE MORE THAN 1/4 GALLON (1 LITER) PER CYCLE.

TIMING IS ADJUSTABLE FROM 5 TO 60 SECONDS AND IS ACCOMPLISHED BY ROTATING TIMING SCREW. TURNING THE SCREW CLOCKWISE INCREASES TIMING WHILE COUNTERCLOCKWISE DECREASES TIMING.

INSTALLATION INSTRUCTIONS:

- A- MOUNT FIXTURE IN ACCORDANCE TO MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- B- ASSEMBLE SPOUTS AND PUSHBUTTONS TO FIXTURE.
- C- CONNECT 1/8" O.D. POLYETHYLENE AIR LINE ① TO PUSHBUTTON ②, AND VALVE TIMER ASSEMBLY ③ SEE DETAIL "A". NOTE: FOR DIRECT ACTING: ASSEMBLE TO AIR PORT ④, SEE DETAIL "B". HAND TIGHTEN FERRULE NUT ⑤ PROVIDED.
- D- CONNECT 1/4" O.D. POLYETHYLENE WATER LINES ⑥ TO VALVE ASSEMBLY ELBOW ⑦ SEE DETAILS "C", AND "D". HAND TIGHTEN FERRULE NUT ⑧ PROVIDED.
- E- AFTER THOROUGHLY FLUSHING SUPPLY LINES MAKE UP CONNECTIONS TO VALVE ASSEMBLY INLET(S) 1/2" NPT OR 1/2" NPS FLEX HOSE AS REQUIRED.

REFERENCE DRAWINGS

REFERENCE DRAWINGS	
ASSEMBLIES	DRAWING
VALVE BODY	9955-006-003
CHECKSTOP	9956-040-003
FIXTURE TRIM	9957-051-001
FIXTURE TRIM -DMS	9957-055-001
AIR-CONTROL SERVOMOTORS	
METERING	9955-000-003
NON-METERING	9955-001-003

NOTE:

- 1) ALL TUBING SHOULD BE CUT SQUARE AND BE FREE OF BURRS OR DEFORMITIES TO ENSURE A WATER TIGHT CONNECTION.
- 2) EXTEND TUBING AT LEAST 1/4" BEYOND FERRULE NUT BEFORE INSERTING TUBING INTO CONNECTION OPENING BEFORE TIGHTENING.
- 3) TUBING SHOULD BE FREE OF KINKS FOR PROPER OPERATION
- 4) MAXIMUM RECOMMENDED WORKING WATER PRESSURE IS 100 PSI; TEMPERATURE IS 130° F; OUTLET TEMPERATURE IS RECOMMENDED AT A MAXIMUM OF 105° F.

WARNING:

PRIOR TO MAKING INSTALLATION, SUPPLY LINES MUST BE FLUSHED OF ALL FOREIGN MATERIAL SUCH AS PIPE DOPE, CHIPS, SOLDER, ETC. VALVE MUST BE DRAINED PRIOR TO BEING SUBJECTED TO FREEZING TEMPERATURES. MAXIMUM RECOMMENDED OUTLET WATER TEMPERATURE IS 105° F.

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INTERNATIONAL (626) 336-4561 FAX (626) 961-2200

TITLE HAND OPERATED, LAVATORY AIR-CONTROL VALVE CONNECTIONS

MANUFACTURE DATE
**JANUARY 1999
TO PRESENT**

DATE ISSUED
04/22/10
DATE REVISED
11/18/15

DRAWING NUMBER
9905-006-001