5శ్ల్ల"

8<u>1</u>"

 $21\frac{1}{8}$ "

(5)



13<u>1</u>"

(6)

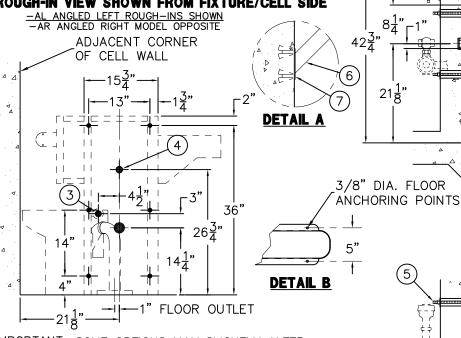
18"

<u>3</u>,,

-DETAIL A

REFERENCE DRAWINGS			
ITEM	INSTALLATION	FIXTURE TRIM	
AIR CONTROL (HOT & COLD)	9905-000-003	9957-055-001	
AIR CONTROL (SINGLE TEMP)	9905-001-003	9957-056-001	
WALL SLEEVE	9925-091-001		

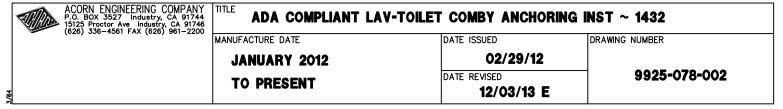
ROUGH-IN VIEW SHOWN FROM FIXTURE/CELL SIDE



IMPORTANT: SOME OPTIONS MAY SLIGHTLY ALTER INSTALLATION PROCEDURES. READ ALL SUPPLEMENTAL DRAWINGS BEFORE INSTALLATION OF FIXTURE. ALL FASTENERS, PLATES, AND NUTS ARE ESSENTIAL IN PROPERLY ANCHORING THE FIXTURE. ACORN CANNOT ASSUME ANY RESPONSIBILITY FOR UNITS IMPROPERLY INSTALLED.

- A- ROUGH-IN PLUMBING FOR THE FOLLOWING CONNECTIONS: -TOILET WALL WASTE OUTLET: 2-3/8" O.D. PLAIN END (1). FOR SUFFIX OPTION (-WO3), 3" O.D. PLAIN END IS PROVIDED.
  - -TOILET FLOOR WASTE CONNECTION: 7-1/2" DIA. RECESSED GASKET FLANGE WITH 5/16" TAPPINGS AT 6" 0/C (2).
  - -FLUSHING INLET CONNECTION: 1-1/2" NPT FEMALE (3). -LAVY WASTE CONNECTION: 1-1/2" O.D. PLAIN
  - END 4. -SEE INDIVIDUAL VALVE SHEET FOR LAVY VALVE ROUGH-IN.
- B- INSTALL HYDRAULIC FLUSH VALVE AND PUSHBUTTON (SHIPPED LOOSE) TO CABINET.
- C- BEFORE FASTENING FIXTURE TO WALL, FLOOR OUTLET TYPE FIXTURE MUST BE SET IN PLACE ON WASTE CONNECTION.
- D- SCREW IN 1/2"-13 UNC STUDS (5) INTO BACK OF FIXTURE. STUDS MUST HAVE MINIMUM 1/2" ENGAGEMENT. THREAD IN FLUSH VALVE SUPPLY NIPPLE (1" NPT) (3). MAKE UP LAVY WASTE CONNECTION. 1-1/2" O.D. PLAIN END (SUITABLE FOR COMPRESSION CONNECTION).
- **®** 38" 34"  $29\frac{1}{4}$ " 18 Δ E- LOCATE FIXTURE INTO PLACE, SLIDING STUDS AND PIPES
- THROUGH WALL OPENINGS.
- F- SECURE FIXTURE TO WALL USING WASHERS AND/OR PLATES AND NUTS. TORQUE (6) NUTS TO 60 FT-LBS.
- G- SECURE GRAB BAR (6) TO WALL USING WALL ANCHORS BY OTHERS AND ANCHORING HARDWARE PROVIDED. ANCHOR PLATE 7 PROVIDES HORIZONTAL ADJUSTMENT.
- DO NOT CUT LENGTH OF TUBING PROVIDED.
- DO NOT TAPE OR FIX TUBING IN A STATIONARY POSITION.

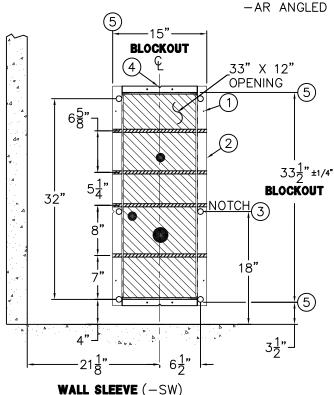
NOTE: REFER TO A.D.A. ACCESSIBILITY GUIDELINES FOR COMPLETE INSTALLATION REQUIREMENTS.

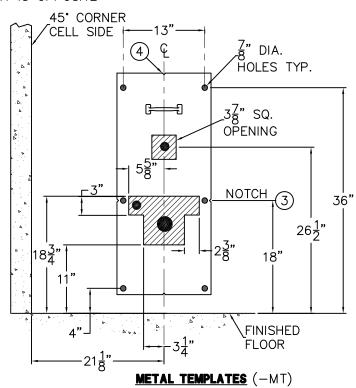




### **VIEW FROM FIXTURE / CELL SIDE**

-AL ANGLED LEFT MODEL ROUGH-IN'S SHOWN
-AR ANGLED RIGHT IS OPPOSITE





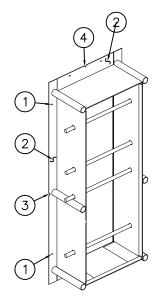
SHADED AREAS ARE REQUIRED WALL OPENINGS

#### -SW WALL SLEEVE

SLEEVES ARE INSTALLED IN FORMS USING NAIL HOLES (1) PROVIDED OR GROUTED INTO BLOCK WALLS BECOMING A PERMANENT PART OF THE WALL.

NOTE: FOR POURED WALL CONSTRUCTION, TEMPORARY BRACING SHOULD BE INSTALLED WITHIN OPENING TO PREVENT DEFORMATION TO SLEEVE WHICH MAY OCCUR DURING

**WALL SLEEVE** (-SW)



A- INSTALL SLEEVE WITH FLANGE (2) ON CHASE SIDE OF WALL.

POUR. DO NOT POUR CONCRETE DIRECTLY ON TOP OF WALL SLEEVE.

- B- SIDE NOTCHES (3) INDICATE INTEGRAL TOILET SEAT HEIGHT LOCATED 18" ABOVE FINISHED FLOOR ON CELL SIDE.
- C- VERTICAL OR TOP AND BOTTOM NOTCHES (4) INDICATE CENTERLINE OF SLEEVE AND FIXTURE TOILET WASTE OUTLET.
- D- USE BLOCKOUT DIMENSIONS (5) SHOWN WHEN SLEEVES ARE NOT AVAILABLE.

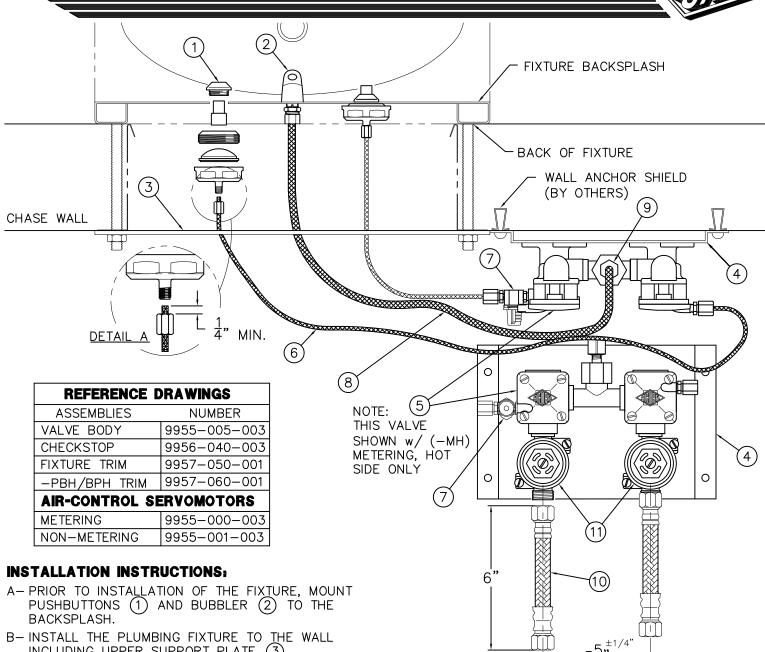
## -MT METAL TEMPLATES

METAL TEMPLATES ARE USED TO LAYOUT REQUIRED WALL OPENINGS FOR SUBSEQUENT FLAME CUTTING OR CORE DRILLING.

- A— MEASURE FROM THE FINISHED FLOOR ON CELL SIDE AND STRIKE A HORIZONTAL CHALK LINE ON THE WALL AT DIMENSIONS SHOWN FOR SIDE NOTCHES (3) INDICATING TOILET SEAT HEIGHT 18" ABOVE FINISHED FLOOR ON CELL SIDE.
- B- STRIKE A VERTICAL CHALK LINE AT DIMENSIONS SHOWN FOR VERTICAL OR TOP AND BOTTOM NOTCHES 4 INDICATING CENTERLINE OF SLEEVE AND FIXTURE TOILET WASTE OUTLET.
- C- PLACE TEMPLATE AGAINST WALL ALIGNING VERTICAL AND HORIZONTAL NOTCHES AND MARK REQUIRED WALL OPENINGS.

	ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 15125 Proctor Ave Industry, CA 91746 (626) 336-4561 FAX (626) 961-2200	(-SW) WALL SLEEVE & (-MT)	METAL TEMPLATE 14	132AL/AR COMBY
	` ,	MANUFACTURE DATE	DATE ISSUED	DRAWING NUMBER
		MAY 1999	05/13/99	
1/16		TO PRESENT	DATE REVISED <b>02/29/12</b>	9925-091-001



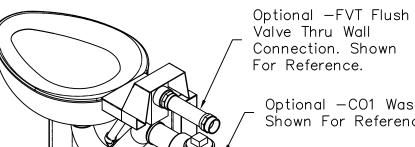


- INCLUDING UPPER SUPPORT PLATE (3).
- C- MOUNT THE AIR-CONTROL VALVE ASSEMBLY (4). LOCATE AS REQUIRED. MAXIMUM ALLOWABLE DISTANCE BETWEEN PUSHBUTTON (1) AND AIR-CONTROL SERVOMOTOR (5) IS 10 FEET. WALL ANCHORING HARDWARE ARE BY OTHERS.
- D- CONNECT 1/8" O.D. POLYETHYLENE AIR LINES (6)
  TO PUSHBUTTONS (1) AND SERVOMOTOR (5).
  HAND TIGHTEN USING FERRULE NUTS PROVIDED. SEE DETAIL A. NOTE: WHEN METERING VALVES ARE SPECIFIED, AIR LINES CONNECT DIRECTLY TO VALVE TIMER (7).
- E- CONNECT 1/4" O.D. POLYETHYLENE WATER LINE (8) TO BUBBLER (2) AND COMPRESSION NUT (9). HAND TIGHTEN USING FERRULE NUTS PROVIDED.

- 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.
- F- AFTER THOROUGHLY FLUSHING THE SUPPLY LINES, MAKE-UP 1/2" NPS FEMALE SUPPLY CONNECTIONS. NOTE: SUPPLY INLET CONNECTION WILL ACCOMODATE 1/2" NPT MALE ADAPTER. THREAD FLEX CONNECTOR HOSE (10) TO CHECKSTOPS (11) AND TO SUPPLY STUB OUTS.
- G-SEE APPROPRIATE SERVOMOTOR REFERENCE DRAWING FOR DETAILS AND TIMING INSRUCTIONS.

ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 15125 Proctor Ave Industry, CA 91746 (626) 336-4561 FAX (626) 961-2200	(04-SERIES) HOT & COLD AIR-CONTROL VALVE ASSEMBLY - NEW STYLE		
(, -	MANUFACTURE DATE	DATE ISSUED	DRAWING NUMBER
	SEPT 1995	11/1/95	
	TO PRESENT	DATE REVISED <b>07/15/10</b>	9905-000-003

NOTE:



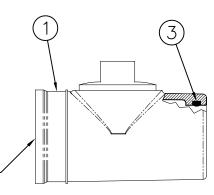
Connection. Shown

REFERENCE DR	REFERENCE DRAWING	
WASTE CONNECTION WITH CLEANOUT -CO1	9985-125-002	

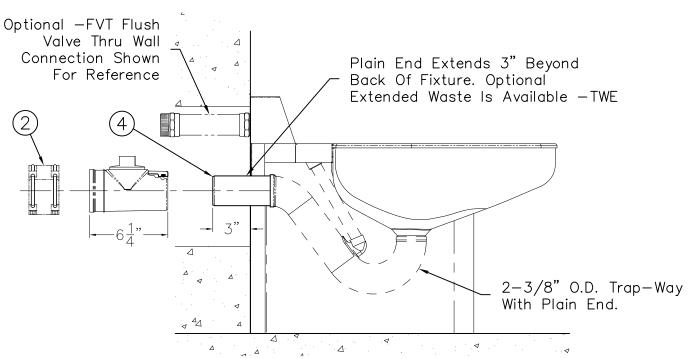
Optional -CO1 Waste Fitting. Shown For Reference.

> NOTE: Optional -CO1 Waste Fitting Available With

3" or 4" No-Hub



Scaled: X 2



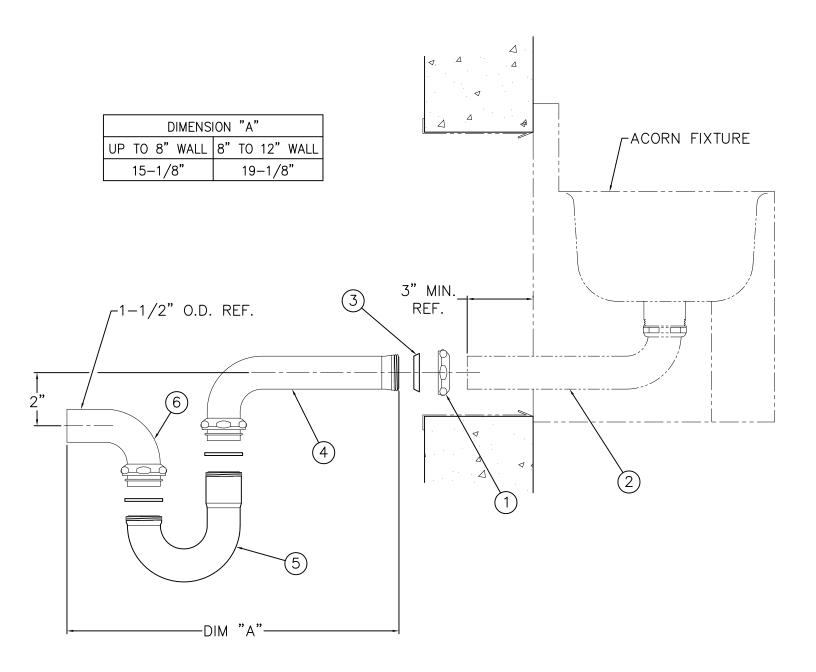
# MODEL #1685 SHOWN FOR REFERENCE

# **INSTALLATION INSTRUCTIONS**

- A-INSERT O-RING (3) INTO GROOVE OF WASTE FITTING (1). LUBRICATE THE 0-RING (3) WITH. O-RING LUBRICANT.
- B-INSTALL WASTE FITTING (1) TO FIXTURE P-TRAP WASTE EXTENSION 4. ENGAGEMENT IS APPROXIMATELY 1-1/4". NOTE: TOILET WASTE
- EXTENSION 4 IS 3" BEYOND BACK OF FIXTURE. LONGER WASTE EXTENSION IS AVAILABLE.
- C-MAKE UP WASTE FITTING CONNECTION TO WASTE PIPING USING NO-HUB (BAND) CONNECTOR (2). BY OTHERS.

ACORN ENGINEERING COMPANY P.O. BOX 3527 INDUSTRY, CA. 91744 (626) 336-4561 FAX (626) 961-2200	NO-HUB WASTE CONNECTION WITH CLEANOUT -CO1		
	MANUFACTURE DATE	DATE ISSUED	DRAWING NUMBER
	JULY 1975	1/29/96	
	PRESENT	DATE REVISED 11/08/13 D	9925-054-001

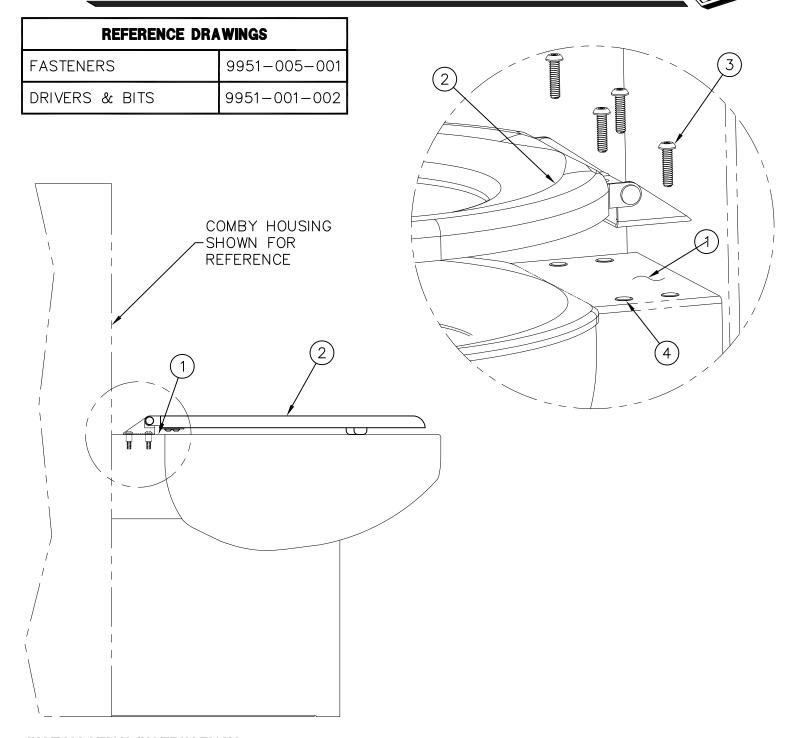




# **INSTALLATION INSTRUCTIONS:**

- A- AFTER INSTALLING ACORN UNIT ON FINISHED WALL, B- REMOVABLE TUBULAR P-TRAP (5) CONNECTS TO SLIP SLIP COMPRESSION NUT (1) OVER 1-1/2" O.D. PLAIN END WASTE 2. USING COMPRESSION GASKET 3, AND NUT 1 MAKE-UP COMPRESSION CONNECTION WITH SLIP JOINT ELBOW (4).
  - JOINT ELBOW (4) AND PLAIN END ELBOW (6) WITH COMPRESSION CONNECTIONS AS SHOWN. NOTE: TUBULAR P-TRAP IS REMOVABLE IN ORDER TO ALLOW FOR WASTE CLEANOUT.

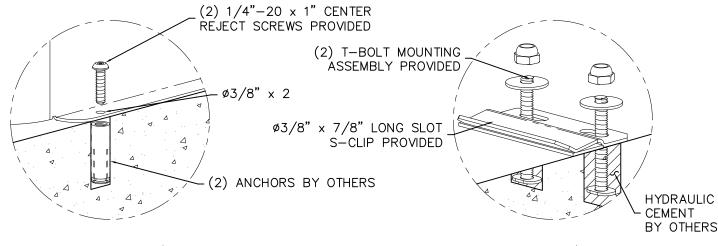
ACORN ENGINEERING COMPANY P.O. BOX 3527 Industry, CA 91744 (512) 700 February (100 February) (626) 336-4561 FAX (626) 961-2200	LAVATORY THRU-WALL WASTE	CONNECTION w/ P-TRA	P & CLEANOUT CAT. * -LW1
	MANUFACTURE DATE	DATE ISSUED	DRAWING NUMBER
	APRIL 30, 1998	3/19/98	
1/32	TO PRESENT	DATE REVISED 4/23/98	9925-065-002

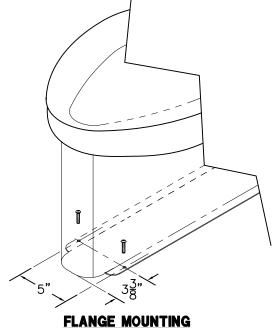


# **INSTALLATION INSTRUCTIONS:**

- A-LOCATE HINGED SEAT MOUNTING HOLES ON FIXTURE TENSION MEMBER 1.
- B-POSITION HINGED SEAT (2) ON TENSION MEMBER (1) AND START SCREWS (3) INTO THREADED INSERTS (4). SEE MOUNTING DETAIL.
- C-TIGHTEN SCREWS (3)

	ACORN ENGINEERING COMPANY P.O. BOX 3527 INDUSTRY, CA. 91744 (626) 336-4561 FAX (626) 961-2200	-113 NINGED SEAT OPTION INSTALLATION DETAIL - ADA COMBTS		
		MANUFACTURE DATE	DATE ISSUED	DRAWING NUMBER
		FEBRUARY 1999	03/15/11	
/32		TO PRESENT	DATE REVISED <b>08/13/12</b>	9925-266-001

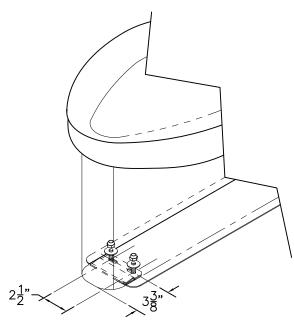




-SS-SPS SUICIDE RESISTANT SKIRT OPTION IS PROVIDED WITH ADDITIONAL MOUNTING POINTS NOT NORMALLY PROVIDED WITH OUR STANDARD FIXTURES AND COME IN TWO STYLES AS INDICATED BELOW.

### FIXTURES w/ FLANGE MOUNTING:

- A—AFTER ROUGHING IN AS REQUIRED, PLACE FIXTURE IN POSITION AND USE AS TEMPLATE TO LOCATE AND MARK FLANGE POINTS ON FLOOR.
- B-REMOVE FIXTURE AND INSTALL FLOOR ANCHORS BY OTHERS FOR 3/8" DIAMETER FLANGE PUNCHING.
- C-ALIGN WALL AND FLOOR ANCHORING POINTS AND COMPLETE FIXTURE INSTALLATION AS INDICATED BY THE FIXTURE INSTALLATION SHEET PROVIDED.



S-CLIP MOUNTING

### FIXTURES w/ S-CLIP:

- A-AFTER ROUGHING IN AS REQUIRED, PLACE FIXTURE IN POSITION AND USE AS A TEMPLATE TO LOCATE AND MARK S-CLIP MOUNTING LOCATION ON FLOOR AS INDICATED.
- B-REMOVE FIXTURE, INSTALL T-BOLTS FOR S-CLIP 3/8" x 7/8" LONG MOUNTING SLOTS AND SECURE WITH HYDRAULIC CEMENT (BY OTHERS)
- C-INSTALL S-CLIP
- D-PLACE FIXTURE ON FLOOR POSITIONING THE "NOSE" OF THE SKIRT SEVERAL INCHES IN FRONT OF S-CLIP MOUNTING LOCATION, SLIDE FIXTURE INTO PLACE ENGAGING THE S-CLIP AND ALIGNING WALL MOUNTING LOCATIONS. COMPLETE FIXTURE INSTALLATION AS INDICATED BY THE FIXTURE INSTALLATION SHEET PROVIDED.

