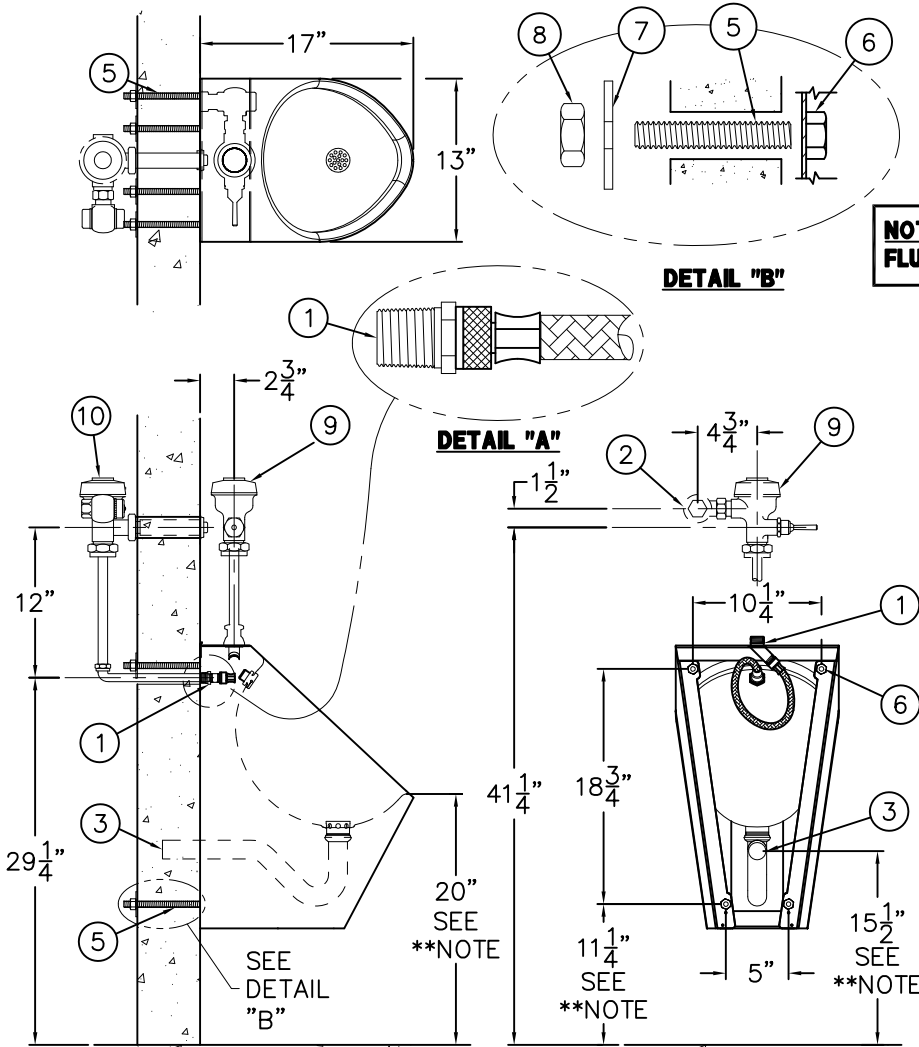
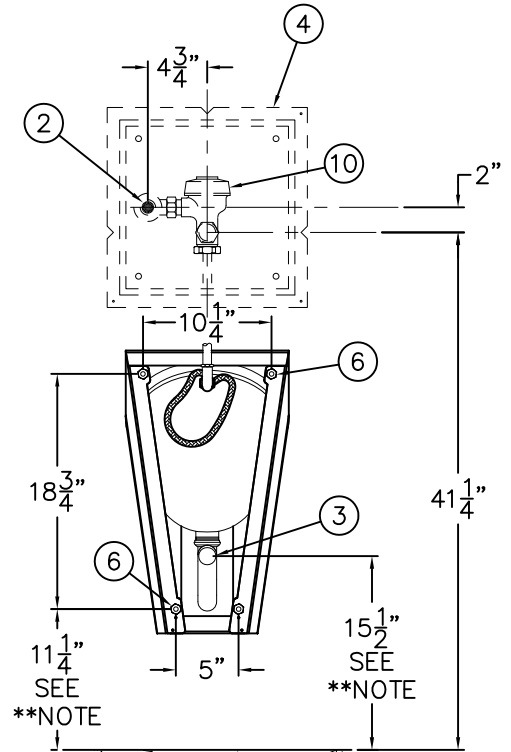




REFERENCE DRAWING	
FLUSH VALVE ACCESS PANEL MODEL NO. 2898	9908-399-001
WALL SLEEVE -W	9925-248-001
WALL SLEEVE -T	9925-249-001

NOTE: USE ONLY APPROPRIATE UPC/cUPC CERTIFIED FLUSH VALVE FOR THE INSTALLATION OF THIS URINAL.



INSTALLATION INSTRUCTIONS:

A- ROUGH-IN FOR THE FOLLOWING:

- 3/4" NPT FLUSHING INLET (1). (MALE ADAPTER WITH FLEXIBLE HOSE PROVIDED FOR -W WALL SUPPLY MODELS, DETAIL "A").
- 3/4" NPT FLUSH VALVE INLET (2) WHEN -FV FLUSH VALVE IS PROVIDED.
- WASTE OUTLET 1-1/2" PLAIN END (3).

B- FOR DURA-WARE FLUSH VALVE ACCESS PANELS (4), FOR CONCEALED FLUSH VALVE INSTALLATION REFER TO DRAWING #9908-399-001.

C- FASTEN 1/2"-13 UNC ALL-THREAD STUDS (5) PROVIDED, TO FIXTURE MOUNTING POINTS (6) AND SLIDE STUDS (5) THRU WALL OPENINGS. NOTE: STUDS MUST HAVE A 1/2" ENGAGEMENT MIN.

D- FROM CHASE SIDE SECURE FIXTURE USING WASHERS (7) & NUTS (8) PROVIDED.

E- MAKE UP WASTE CONNECTION (3).

VIEW FROM REAR

VIEW FROM REAR

F- FOR OPTIONAL -FV FLUSH VALVE:

CONNECT FLUSH VALVE AS REQUIRED FOR EXPOSED (9) OR CONCEALED (10) INSTALLATION PER MANUFACTURERS' RECOMMENDATIONS. -W WALL SUPPLY FLUSH VALVE, ACCESS FOR CONNECTION AND SERVICING FLUSH VALVE IS REQUIRED.

NOTE:

FOR SUFFIX OPTION -ADA UNITS, REFER TO ADA ACCESSIBILITY GUIDELINES FOR COMPLETE INSTALLATION REQUIREMENTS. ALL VERTICAL DIMENSIONS INDICATED **DECREASE PROPORTIONATELY WITH ADA RIM HEIGHT: FOR ADA RIM HEIGHT OF 17", WASTE OUTLET BECOMES 12-1/2" AFF.

1-ADA FLUSH VALVE MUST BE HYDRAULICALLY ACTUATED OR SUPPLIED WITH A SPECIAL HANDLE. MAXIMUM CONTROL HEIGHT IS 44" ABOVE FINISHED FLOOR.

2-ADA REQUIRES A RIM HEIGHT OF 17" MAXIMUM AFF.



ACORN ENGINEERING COMPANY
P.O. BOX 3527 INDUSTRY, CA. 91744
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TITLE
PENAL-WARE URINAL, #1709HEU

MANUFACTURE DATE

NOVEMBER 2011

TO PRESENT

DATE ISSUED

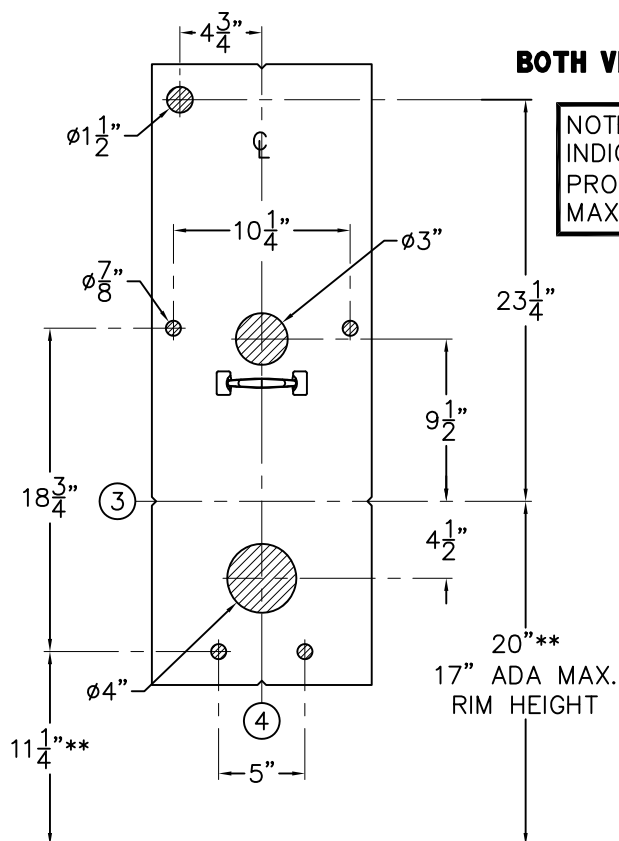
11/17/11

DATE REVISED

11/07/12 D

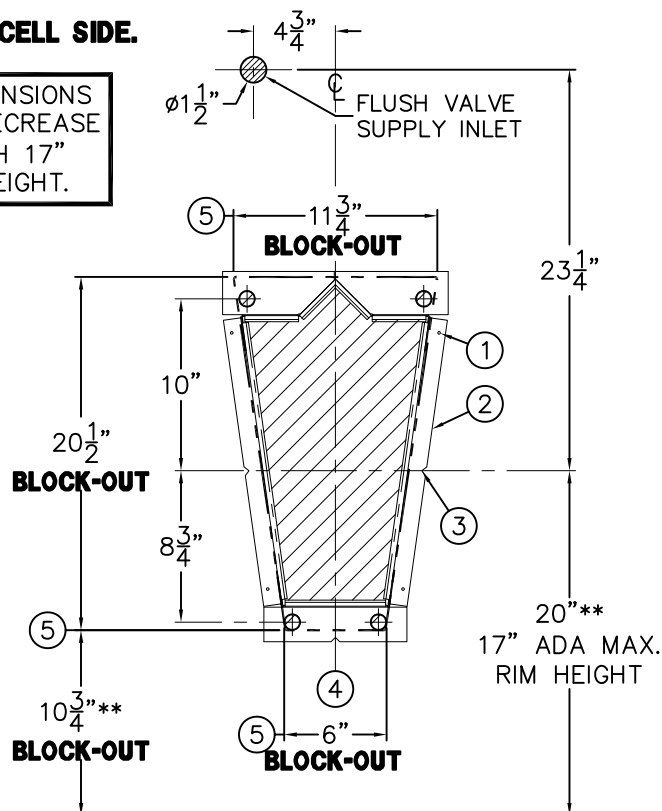
DRAWING NUMBER

9925-075-001



BOTH VIEWS ARE FROM CELL SIDE.

NOTE: VERTICAL DIMENSIONS INDICATED ** WILL DECREASE PROPRTIONATELY WITH 17" MAXIMUM ADA RIM HEIGHT.



SHADED AREAS ARE REQUIRED WALL OPENINGS

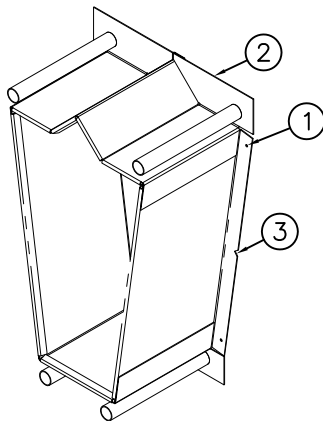


SW WALL SLEEVE

SLEEVES ARE INSTALLED IN FORMS USING NAIL HOLES PROVIDED ① 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 POUR. DO NOT POUR DIRECTLY ON TOP OF WALL SLEEVE.

- A. INSTALL SLEEVE WITH FLANGE (2) ON CHASE SIDE OF WALL.
- B. LOCATE SIDE NOTCHES (3) AT DIMENSION SHOWN MEASURED FROM FINISHED FLOOR ON CELL SIDE. SIDE NOTCHES INDICATE FLOOD RIM HEIGHT OF URINAL.
- C. LOCATE VERTICAL OR TOP & BOTTOM NOTCHES (4) INDICATE CENTERLINE OF SLEEVE AND FIXTURE HOUSING.
- D. USE BLOCK-OUT DIMENSIONS SHOWN (5) WHEN SLEEVES ARE NOT AVAILABLE.



MT METAL TEMPLATES

- A. METAL TEMPLATES ARE USED TO LAYOUT REQUIRED WALL OPENINGS FOR SUBSEQUENT FLAME CUTTING OR CORE DRILLING.
- B. MEASURE FROM FINISHED FLOOR ON CELL SIDE, AND STRIKE A HORIZONTAL CHALK LINE (3) ON THE WALL AT DIMENSIONS SHOWN FOR SIDE NOTCHES, INDICATING TOILET SEAT HEIGHT ABOVE FINISHED FLOOR ON CELL SIDE.
- C. STRIKE A VERTICAL CHALK LINE (4) AT DIMENSIONS SHOWN FOR VERTICAL NOTCHES INDICATING CENTERLINE OF SLEEVE AND FIXTURE HOUSING.
- D. PLACE TEMPLATE AGAINST WALL ALIGNING VERTICAL AND HORIZONTAL NOTCHES AND MARK REQUIRED WALL OPENINGS.



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TITLE

(-SW) SLEEVES AND (-MT) METAL TEMPLATES 1709HEU-T URINAL

MANUFACTURE DATE

DATE ISSUED

DRAWING NUMBER

NOVEMBER 2011

12/13/11

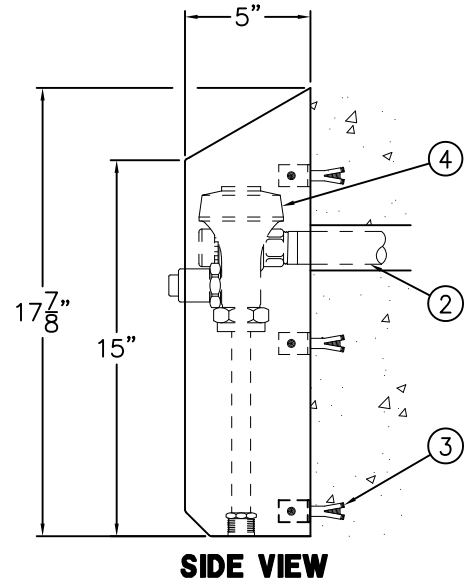
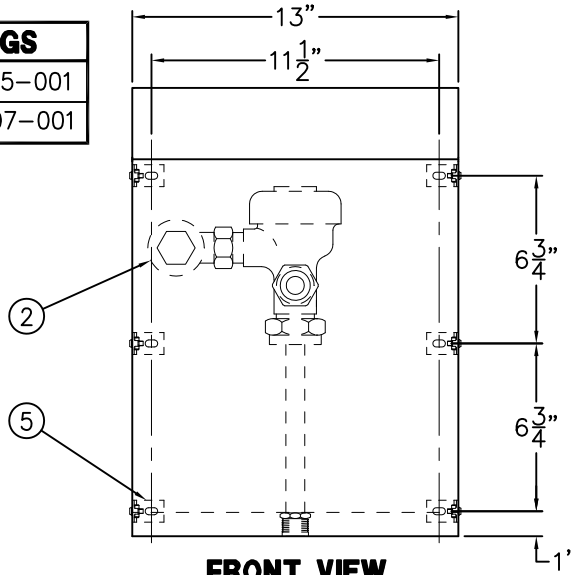
9925-249-001

DATE REVISED _____

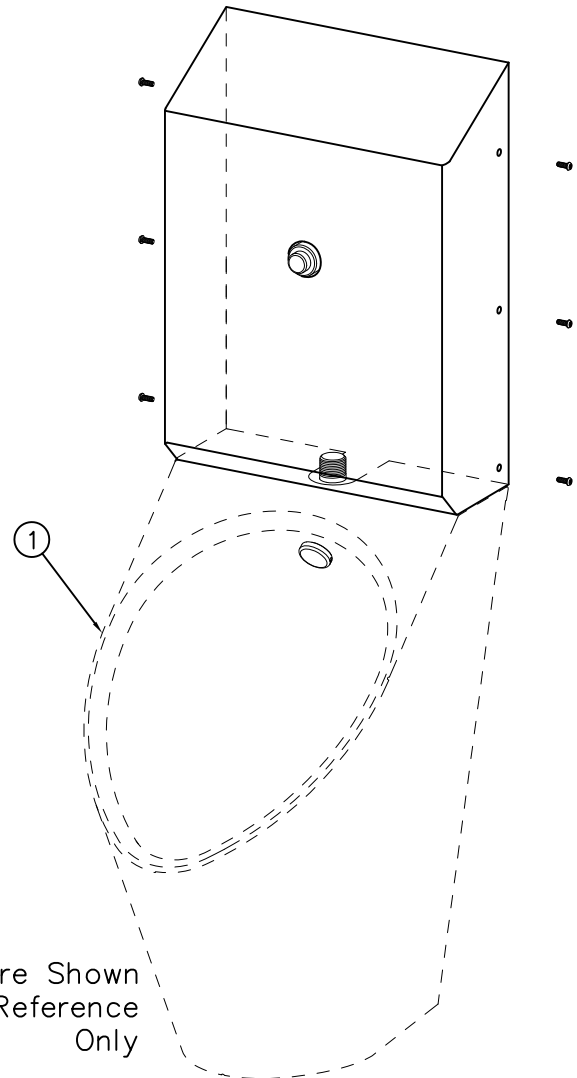
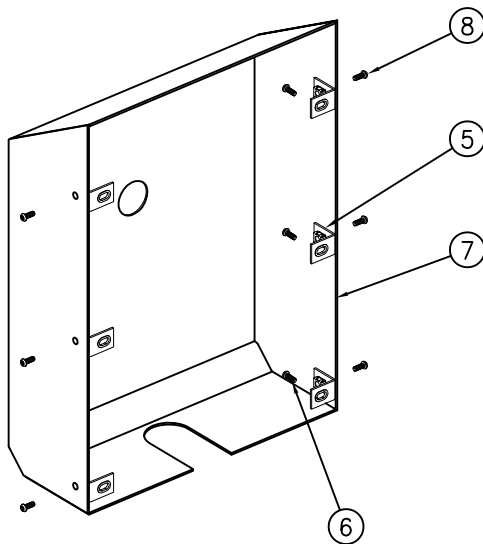
02/19/15 C

**REFERENCE DRAWINGS**

SECURITY SCREWS	9951-005-001
TINNERMAN NUTS	9908-007-001

**NOTE:**

FLUSH VALVE COVER
FOR MODELS 2158-T
& 1709HEU ONLY

**INSTALLATION INSTRUCTIONS:**

- A- MOUNT FIXTURE ① TO WALL.
- B- ROUGH-IN FOR FLUSH VALVE SUPPLY ② REFER TO FIXTURE INSTALLATION INSTRUCTIONS.
- C- LOCATE AND INSTALL WALL ANCHORS (BY OTHERS) ③.
- D- INSTALL FLUSH VALVE ④ TO FIXTURE ①.
- E- ATTACH MOUNTING CLIPS ⑤ TO WALL USING MOUNTING SCREWS ⑥ (BY OTHERS).
- F- ATTACH FLUSH VALVE COVER ⑦ TO MOUNTING CLIPS ⑤ USING #10-32 SCREWS ⑧ PROVIDED.



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TITLE

SLOPING TOP FLUSH VALVE COVER *2802-SLPT (MODEL *2158/1709HEU ONLY)

MANUFACTURE DATE

FEBRUARY 1975
TO PRESENT

DATE ISSUED

04/15/13

DATE REVISED

DRAWING NUMBER

9908-393-001