EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING
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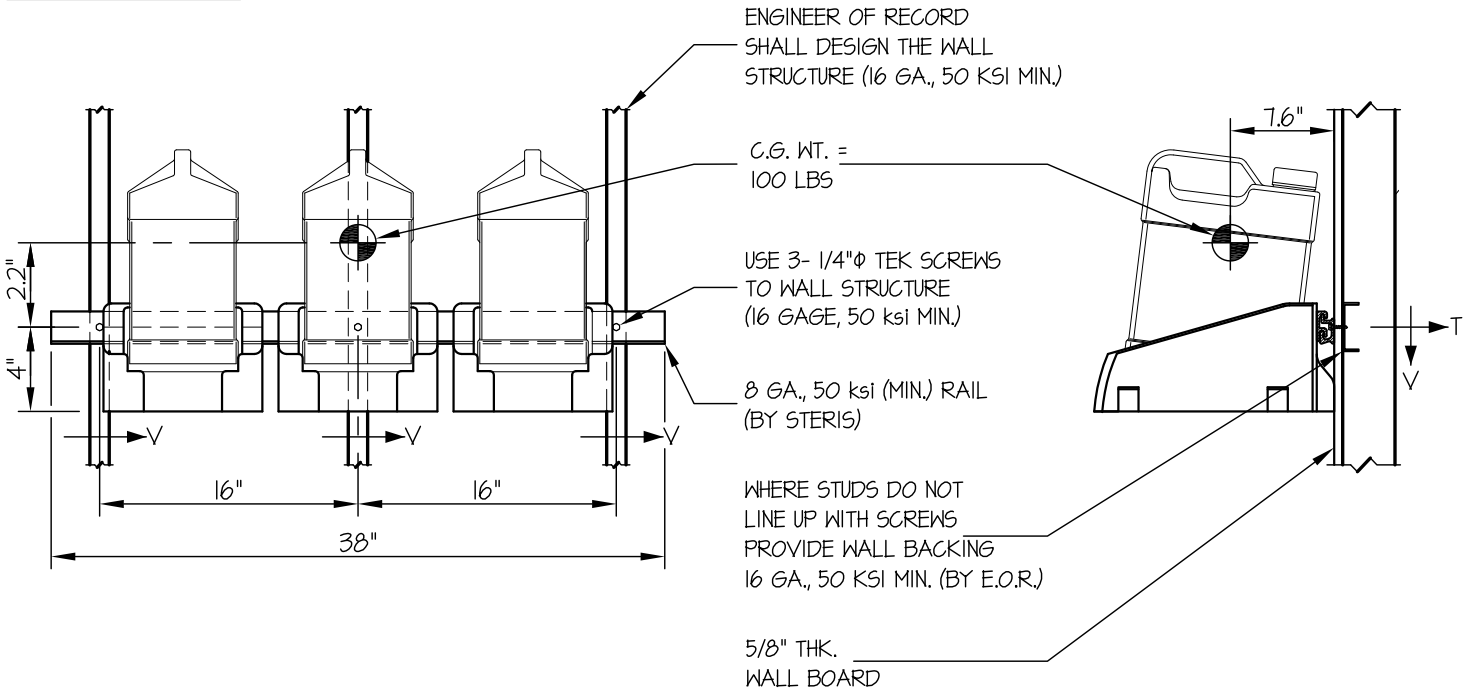
STERIS CORPORATION

ACUHOLD

DES. R. LA BRIE
JOB NO. 14-0905
DATE 6/10/09
SHEET 1 OF 1 SHEETS

SEISMIC ANCHORAGE

WALL MOUNTED



PLAN AT WALL

SIDE ELEVATION

LOADS: PER 2007 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13.
(ALLOWABLE STRESS DESIGN IS USED)
WEIGHT = 100 LBS.
HORIZONTAL FORCE (E_h) = 0.97W_p = 97 LBS.
VERTICAL FORCE (E_v) = 0.27W_p = 27 LBS.

1/4" TEK SCREWS TO 16 GAGE, 50 KSI
$T_{ALLOW.}$ = 260 LBS
$V_{ALLOW.}$ = 612 LBS

TENSION (T)

$$T_{VERTICAL} = \frac{(100\# + 27\#)7.6''}{3_{SCREWS}(4'')} = 80 \text{ LBS}$$

$$T_{PARALLEL} = \frac{97\#(7.6'')(8'')}{32''(4'')} = 46 \text{ LBS}$$

$$T_{PERP.} = \frac{97\#(6.2'')}{3_{SCREWS}(4'')} = 50 \text{ LBS}$$

$$T_{MAX} = 80\# + \sqrt{46^2 + 50^2} = 148 \text{ LBS/SCREW (MAX)}$$

SHEAR (V)

$$V_{MAX} = \frac{100\# + 27\#}{3 \text{ SCREWS}} + \frac{97\#(6.2'')}{3_{SCREWS}(4'')} = 92 \text{ LBS/SCREW (MAX)}$$

REGISTERED PROFESSIONAL ENGINEER
JOSEPH LaBRIE
No. 3566
EXP. 3-31-2010
6/10/09
STRUCTURAL
STATE OF CALIFORNIA