EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING www.EquipmentAnchorage.com

DES. J. ROBERSON

JOB NO. 11-1420

DATE 4/23/14

SHEET

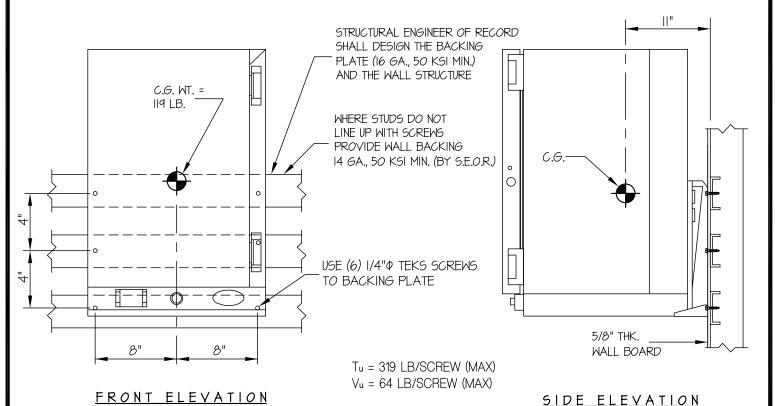
SHEETS

MEDICAL GRADE REFRIGERATOR REF 2

FOLLETT CORPORATION

SEISMIC ANCHORAGE

WALL MOUNTED



LOADS: PER 2013 CALIFORNIA BUILDING CODE AND ASCE 7-10.

(STRENGTH DESIGN IS USED) (SDS = 2.5, Ap = 1.0, Ip = 1.5, Rp = 2.5, $\mathrm{z/h} \leq$ 1)

WEIGHT = 119 LB

HORIZONTAL FORCE (Eh) = 1.80 Wp = 214 LB

VERTICAL FORCE (Ev) = 0.50 Wp = 60 LB

SCREW FORCES:

TENSION (T)

$$T_{u \text{ VERTICAL}} = \frac{(1.2(119\#) + 60\#)11''}{2 \text{ SOREWS} (8")} = 140 \text{ LB/SCREW}$$

$$T_{u \text{ PARALLEL}} = \frac{214\#(11")}{1 \text{ SCREW}} = 147 \text{ LB/SCREW}$$

$$T_{u PERP.} = \frac{214\#}{2 \text{ screws}} = 107 \text{ LB/SCREW}$$

$$T_{\text{UMAX}} = 140# + (107#)(0.3) + 147# = 319 LB/SCREW (MAX)$$

SHEAR (V)

$$V_{u MAX} = \sqrt{\left(\frac{1.2(119\#) + 60\#}{6 \text{ screws}}\right)^2 + \left(\frac{214\#}{4 \text{ screws}}\right)^2} = 64 \text{ LB/SCREW (MAX)}$$

NOTE:

STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE RIGID (2p = 1.0) SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN IN COMBINATION WITH ALL OTHER LOADS THAT MAY BE PRESENT.

1/4"\$\psi TEK SCREWS 16 GAGE, 50 KSI \$\phi T = 418 LB/SCREW (TENSION) \$\phi V = 362 LB/SCREW (SHEAR)\$

