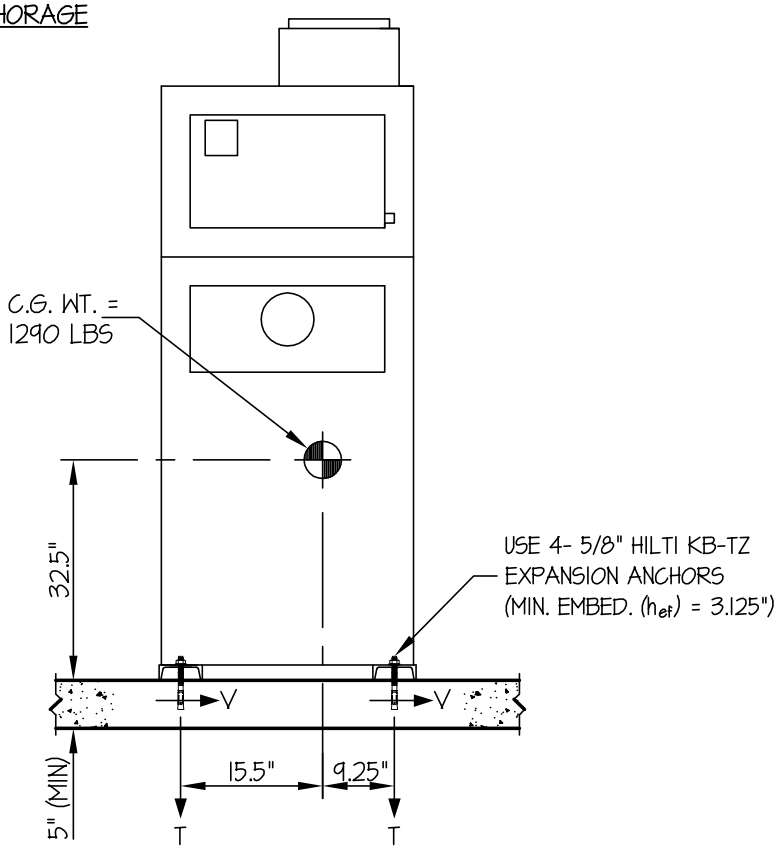
EASE EQUIPMENT ANCHORAGE & SEISMIC ENGINEERING
www.equipmentanchorage.com

PATTERSON-KELLEY CO.

N-3000 MFD

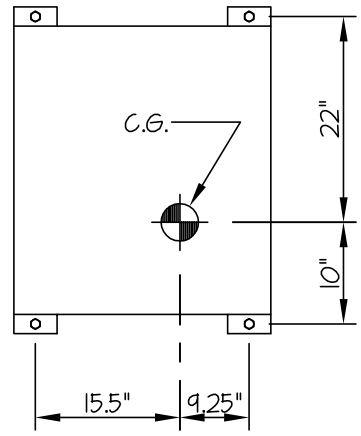
DES. J. ROBERSON | JOB NO. 11-1166 | DATE 8/22/11 | SHEET 1 OF 1 SHEET

SEISMIC ANCHORAGE



FRONT ELEVATION

SLAB ON GRADE



PLAN AT BASE

T_{MAX} = 1014 LBS/BOLT
V_{MAX} = 399 LBS/BOLT

LOADS: PER 2010 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13.
WEIGHT = 1290 LBS
HORIZONTAL FORCE (E_h) = 0.90W_p = 1161 LBS
VERTICAL FORCE (E_v) = 0.40W_p = 516 LBS

BOLT FORCES:

TENSION (T)

$$T_{MAXIMUM} = \left[\frac{1161\#(32.5'')(9.25'')}{32''(24.75'')} \times (0.3)\right] + \frac{1161\#(32.5'')(22'')}{24.75''(32'')} - \frac{(1290\#(0.9) - 516\#)(9.25'')(22'')}{24.75''(32'')} = 1014 \text{ LBS/BOLT (MAX)}$$

(HORIZ. - FRONT TO BACK) (HORIZ. - SIDE TO SIDE) (WEIGHT (0.9) - E_v)

SHEAR (V)

$$V_{MAXIMUM} = \frac{1161\#(22'')}{2_{BOLTS}(32'')} = 399 \text{ LBS/BOLT (MAX)}$$

NOTE:
PROVIDE FLOOR STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN.
(BY ENGINEER OF RECORD FOR THE BUILDING)

REGISTERED PROFESSIONAL ENGINEER
JONATHAN ROBERSON
No. 4197
EXP. 6-30-2012
8/22/11
STRUCTURAL
STATE OF CALIFORNIA

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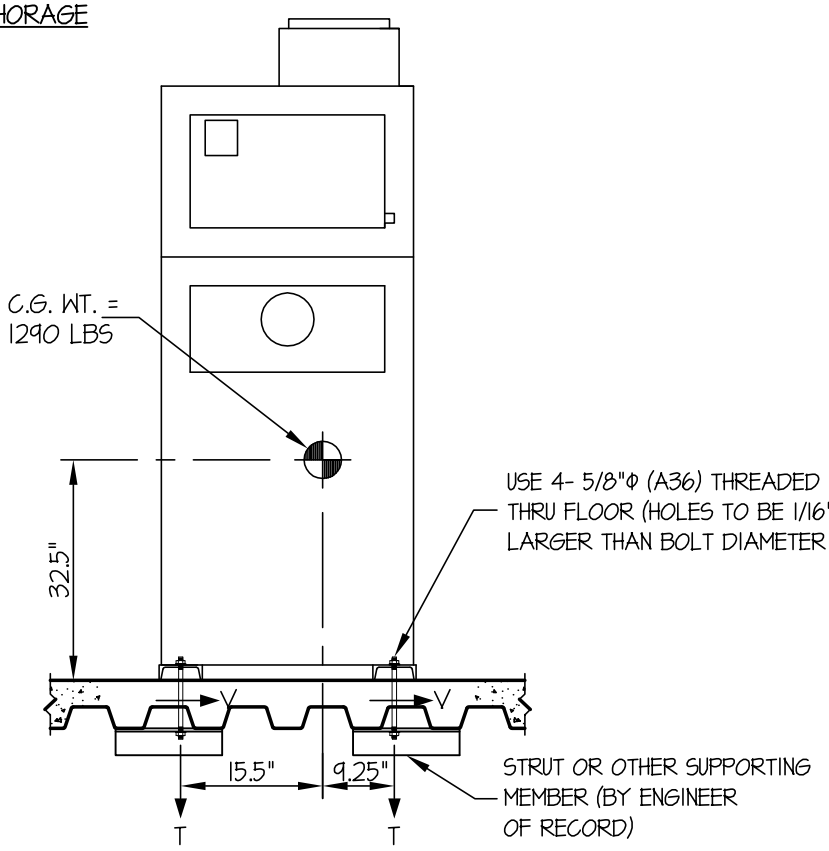
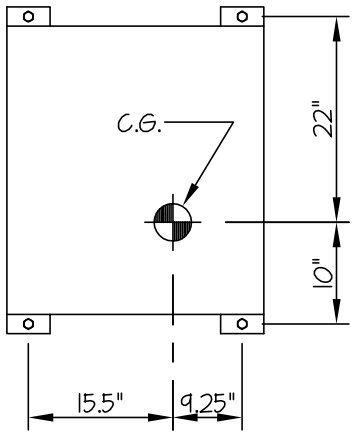
SEISMIC ANCHORAGE



FRONT ELEVATION

ELEVATED FLOOR



PLAN AT BASE

T_{MAX} = 1754 LBS/BOLT
V_{MAX} = 639 LBS/BOLT

LOADS: PER 2010 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13.
WEIGHT = 1290 LBS
HORIZONTAL FORCE (E_h) = $1.44W_p$ = 1858 LBS
VERTICAL FORCE (E_v) = $0.40W_p$ = 516 LBS

BOLT FORCES:

TENSION (T)

$$T_{MAXIMUM} = \left[\frac{1858\#(32.5'')(15.5'')}{32''(24.75'')} \times (0.3)\right] + \frac{1858\#(32.5'')(22'')}{24.75''(32'')} - \frac{(1290\#(0.9) - 516\#)(15.5'')(22'')}{24.75''(32'')} = 1754 \text{ LBS/BOLT (MAX)}$$

(HORIZ. - FRONT TO BACK) (HORIZ. - SIDE TO SIDE) (WEIGHT (0.9) - E_v)

SHEAR (V)

$$V_{MAXIMUM} = \frac{1858\#(22'')}{2_{BOLTS}(32'')} = 639 \text{ LBS/BOLT (MAX)}$$

NOTE:
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