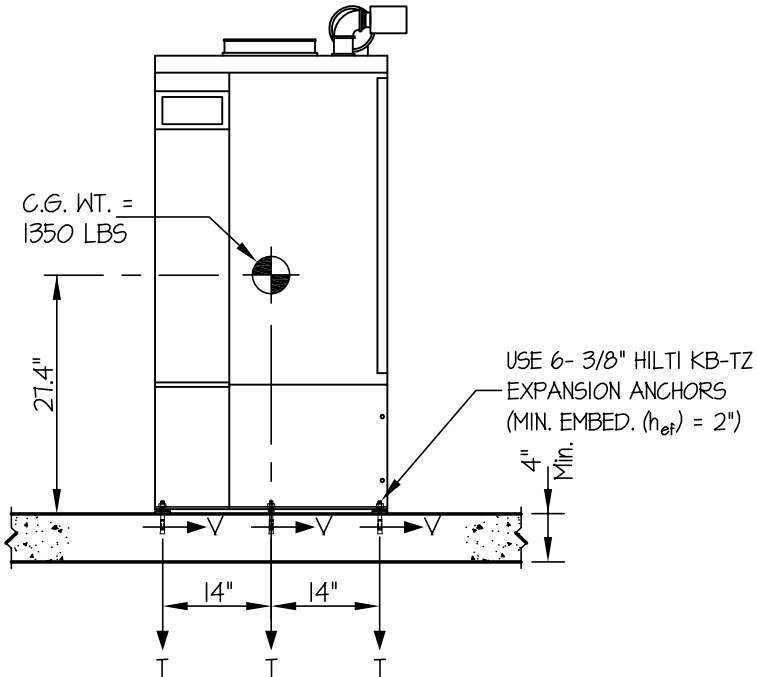


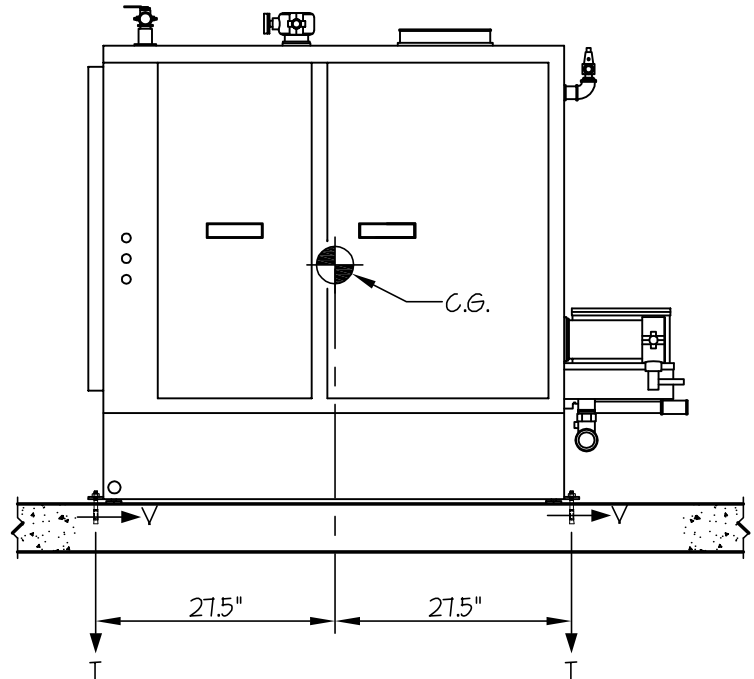
PATTERSON-KELLEY CO.	DES. J. ROBERSON	SHEET 1
	JOB NO. 11-1166	OF 1 SHEET
	DATE 8/22/11	
P-K MACH SERIES C-1500 BOILER		

SEISMIC ANCHORAGE

SLAB ON GRADE



FRONT ELEVATION



SIDE ELEVATION

$T_{MAX} = 542 \text{ LBS/BOLT}$
 $V_{MAX} = 203 \text{ LBS/BOLT}$

LOADS: PER 2010 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13.
 WEIGHT = 1350 LBS
 HORIZONTAL FORCE (E_H) = $0.90 W_p = 1215 \text{ LBS}$
 VERTICAL FORCE (E_v) = $0.40 W_p = 540 \text{ LBS}$

BOLT FORCES:

TENSION (T) (ONLY 4 OUTER BOLTS CONSIDERED IN CALCULATIONS)

$$T_{MAXIMUM} = \left[\frac{1215\#(27.4\#)}{3 \text{ BOLTS } (55\#)} \times (0.3) \right] + \frac{1215\#(27.4\#)}{2 \text{ BOLTS } (28\#)} - \frac{(1350\#(0.9) - 540\#)}{6 \text{ BOLTS}} = 542 \text{ LBS/BOLT (MAX)}$$

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

SHEAR (V)

$$V_{MAXIMUM} = \frac{1215\#}{6 \text{ BOLTS}} = 203 \text{ LBS/BOLT (MAX)}$$

NOTE:

ARCHITECT OR STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN.



PATTERSON-KELLEY CO.

P-K MACH SERIES C-1500 BOILER

DES. J. ROBERSON

JOB NO. 11-1166

DATE 8/22/11

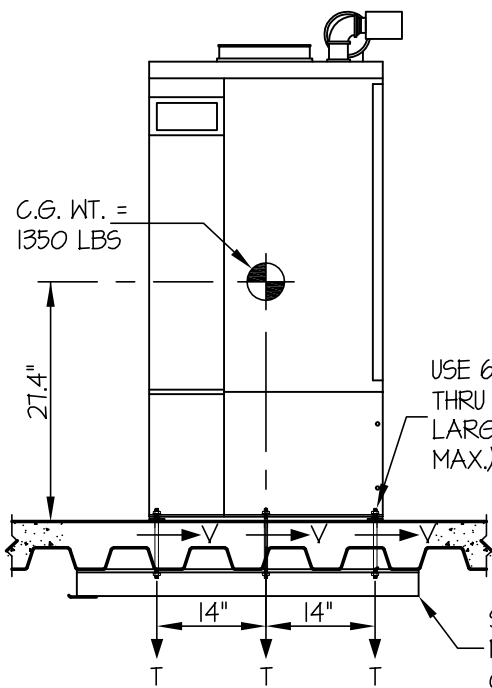
SHEET

1

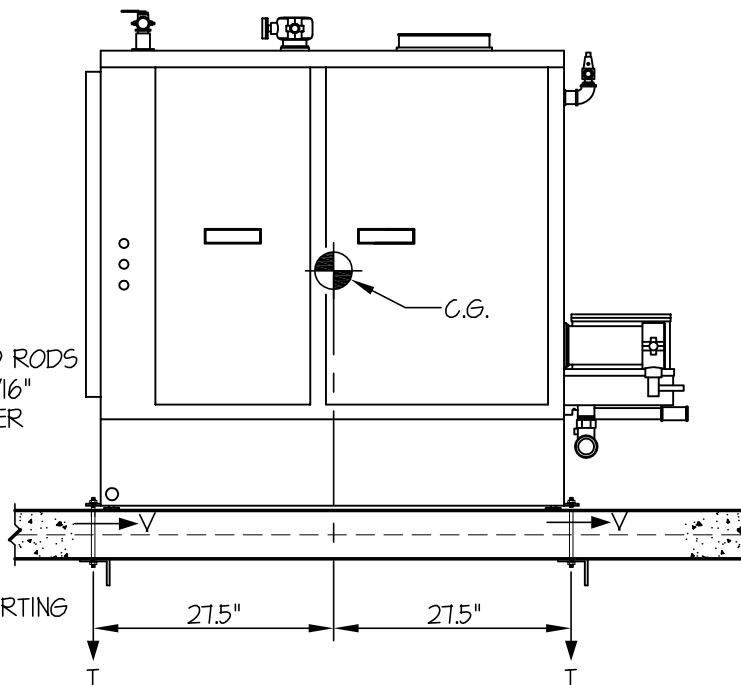
OF **1** SHEET

SEISMIC ANCHORAGE

ELEVATED FLOOR



FRONT ELEVATION



SIDE ELEVATION

T_{MAX} = 935 LBS/BOLT
 V_{MAX} = 324 LBS/BOLT

LOADS: PER 2010 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13.

WEIGHT = 1350 LBS

HORIZONTAL FORCE (E_h) = 144 W_p = 1944 LBS

VERTICAL FORCE (E_v) = 0.40 W_p = 540 LBS

BOLT FORCES:

TENSION (T) (ONLY 4 OUTER BOLTS CONSIDERED IN CALCULATIONS)

$$T_{\text{MAXIMUM}} = \left[\frac{1944\#(27.4")}{3 \text{ BOLTS } (55")} \times (0.3) \right] + \frac{1944\#(27.4")}{2 \text{ BOLTS } (28")} - \frac{(1350\#(0.9) - 540\#)}{6 \text{ BOLTS}} = 935 \text{ LBS/BOLT (MAX)}$$

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

SHEAR (V)

$$V_{\text{MAXIMUM}} = \frac{1944\#}{6 \text{ BOLTS}} = 324 \text{ LBS/BOLT (MAX)}$$

NOTE:

ARCHITECT OR STRUCTURAL ENGINEER OF RECORD SHALL PROVIDE SUPPORT STRUCTURE TO SUPPORT WEIGHTS AND FORCES SHOWN.

