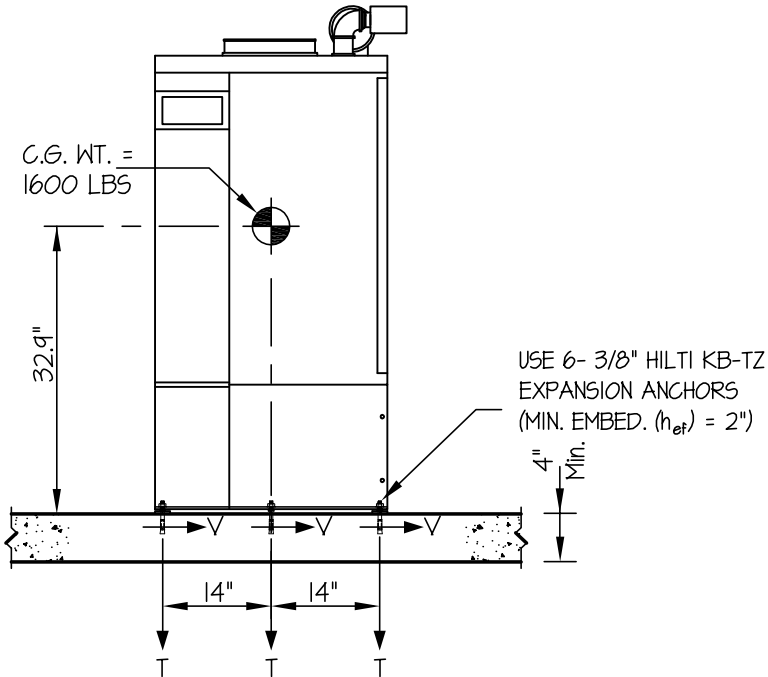


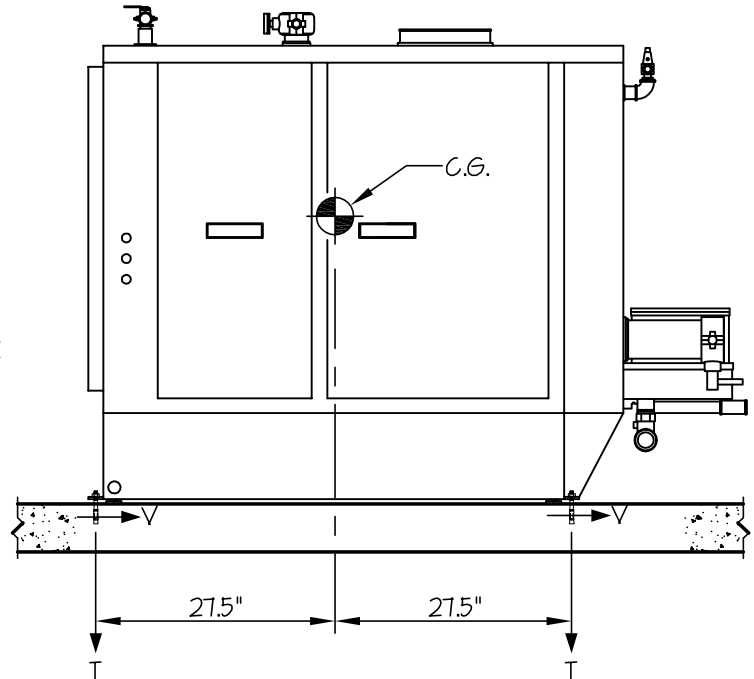
<b>PATTERSON-KELLEY CO.</b>	DES. <b>J. ROBERSON</b>	SHEET <b>1</b>
	JOB NO. <b>11-1166</b>	OF <b>1</b> SHEET
	DATE <b>8/22/11</b>	
<b>P-K MACH SERIES C-2000 BOILER</b>		

SEISMIC ANCHORAGE

SLAB ON GRADE



**FRONT ELEVATION**



**SIDE ELEVATION**

$T_{MAX} = 799 \text{ LBS/BOLT}$   
 $V_{MAX} = 240 \text{ LBS/BOLT}$

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

WEIGHT = 1600 LBS

HORIZONTAL FORCE ( $E_H$ ) =  $0.90 W_p = 1440 \text{ LBS}$

VERTICAL FORCE ( $E_v$ ) =  $0.40 W_p = 640 \text{ LBS}$

BOLT FORCES:

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

$$T_{MAXIMUM} = \left[ \frac{1440\#(32.9'')}{3 \text{ BOLTS } (55'')} \times (0.3) \right] + \frac{1440\#(32.9'')}{2 \text{ BOLTS } (28'')} - \frac{(1600\#(0.9) - 640\#)}{6 \text{ BOLTS}} = 799 \text{ LBS/BOLT (MAX)}$$

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

SHEAR (V)

$$V_{MAXIMUM} = \frac{1440\#}{6 \text{ BOLTS}} = 240 \text{ LBS/BOLT (MAX)}$$

NOTE:

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

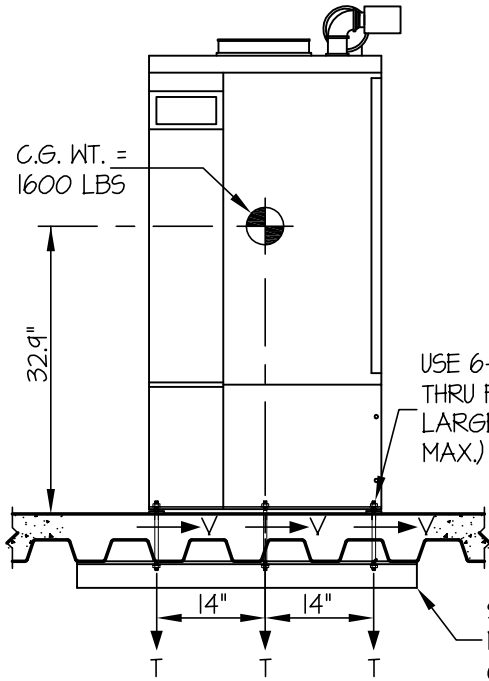


<b>PATTERSON-KELLEY CO.</b>	DES. <b>J. ROBERSON</b>	SHEET <b>1</b>
	JOB NO. <b>11-1166</b>	OF <b>1</b> SHEET
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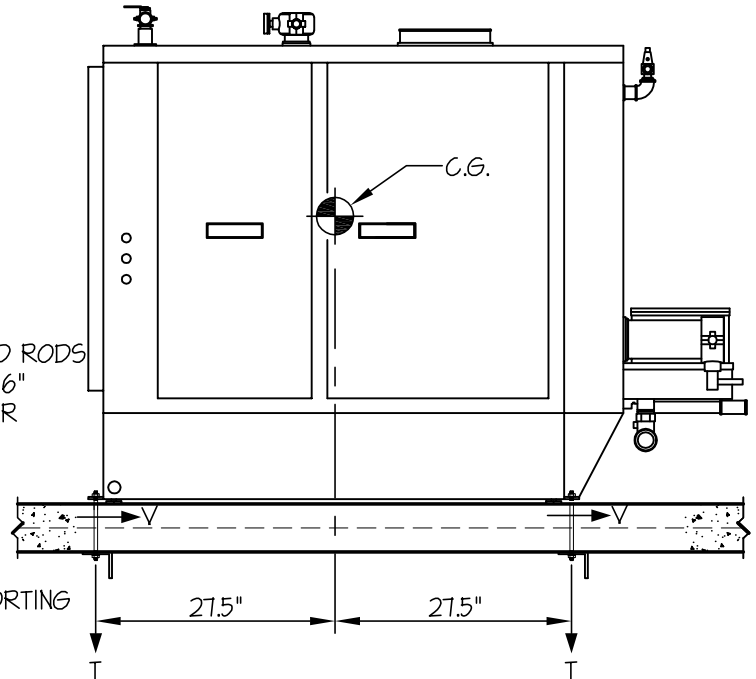
**P-K MACH SERIES C-2000 BOILER**

SEISMIC ANCHORAGE

ELEVATED FLOOR



FRONT ELEVATION



SIDE ELEVATION

$T_{MAX} = 1359 \text{ LBS/BOLT}$   
 $V_{MAX} = 384 \text{ LBS/BOLT}$

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

WEIGHT = 1600 LBS

HORIZONTAL FORCE ( $E_h$ ) =  $144 W_p = 2304 \text{ LBS}$

VERTICAL FORCE ( $E_v$ ) =  $0.40 W_p = 640 \text{ LBS}$

BOLT FORCES:

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

$$T_{MAXIMUM} = \left[ \frac{2304\#(32.9'')}{3 \text{ BOLTS } (55'')} \times (0.3) \right] + \frac{2304\#(32.9'')}{2 \text{ BOLTS } (28'')} - \frac{(1600\#(0.9) - 640\#)}{6 \text{ BOLTS}} = 1359 \text{ LBS/BOLT (MAX)}$$

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

SHEAR (V)

$$V_{MAXIMUM} = \frac{2304\#}{6 \text{ BOLTS}} = 384 \text{ LBS/BOLT (MAX)}$$

NOTE:

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

