

**PATTERSON-KELLEY CO.**

**P-K MACH SERIES C-900 BOILER**

DES. J. ROBERSON

JOB NO. 11-1166

DATE 8/22/11

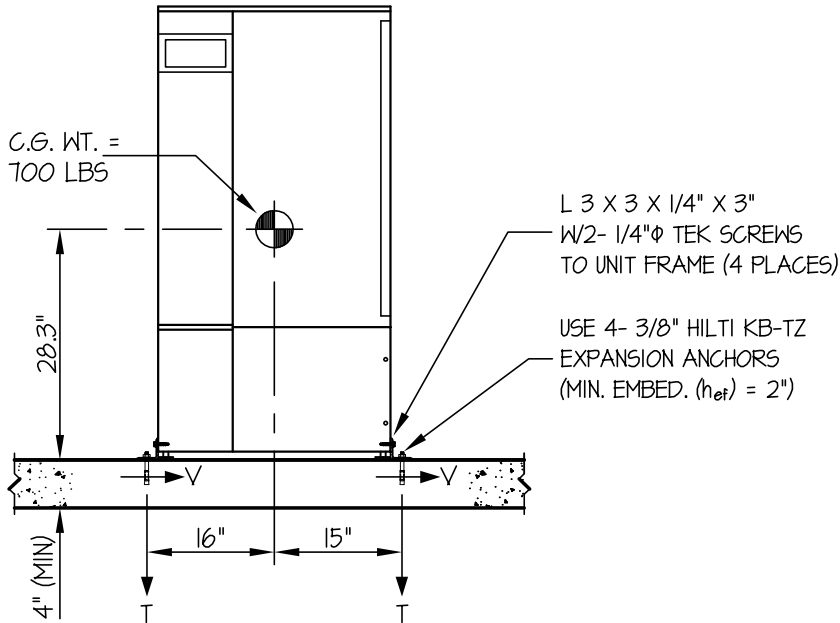
SHEET

**1**

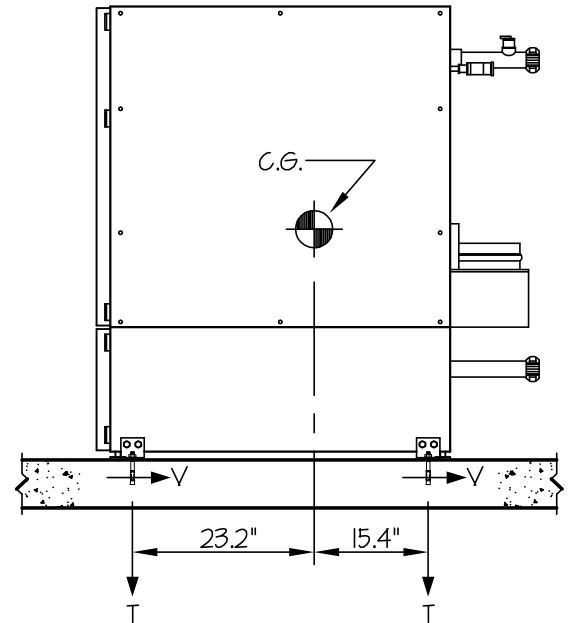
OF **1** SHEET

SEISMIC ANCHORAGE

SLAB ON GRADE



FRONT ELEVATION



SIDE ELEVATION

T<sub>MAX</sub> = 311 LBS/BOLT  
V<sub>MAX</sub> = 189 LBS/BOLT

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

WEIGHT = 700 LBS

HORIZONTAL FORCE (E<sub>h</sub>) = 0.90W<sub>p</sub> = 630 LBS

VERTICAL FORCE (E<sub>v</sub>) = 0.40W<sub>p</sub> = 280 LBS

BOLT FORCES:

TENSION (T)

$$T_{\text{MAXIMUM}} = \left[ \frac{630\#(28.3'')(15'')}{38.6''(31'')} \times (0.3) \right] + \frac{630\#(28.3'')(23.2'')}{31''(38.6'')} - \frac{(700\#(0.9) - 280\#)(15'')(23.2'')}{31''(38.6'')} = 311 \text{ LBS/BOLT (MAX)}$$

(HORIZ - FRONT TO BACK)                      (HORIZ - SIDE TO SIDE)                      (WEIGHT (0.9) - E<sub>v</sub>)

SHEAR (V)

$$V_{\text{MAXIMUM}} = \frac{630\#(23.2'')}{2_{\text{BOLTS}}(38.6'')} = 189 \text{ LBS/BOLT (MAX)}$$

NOTE:

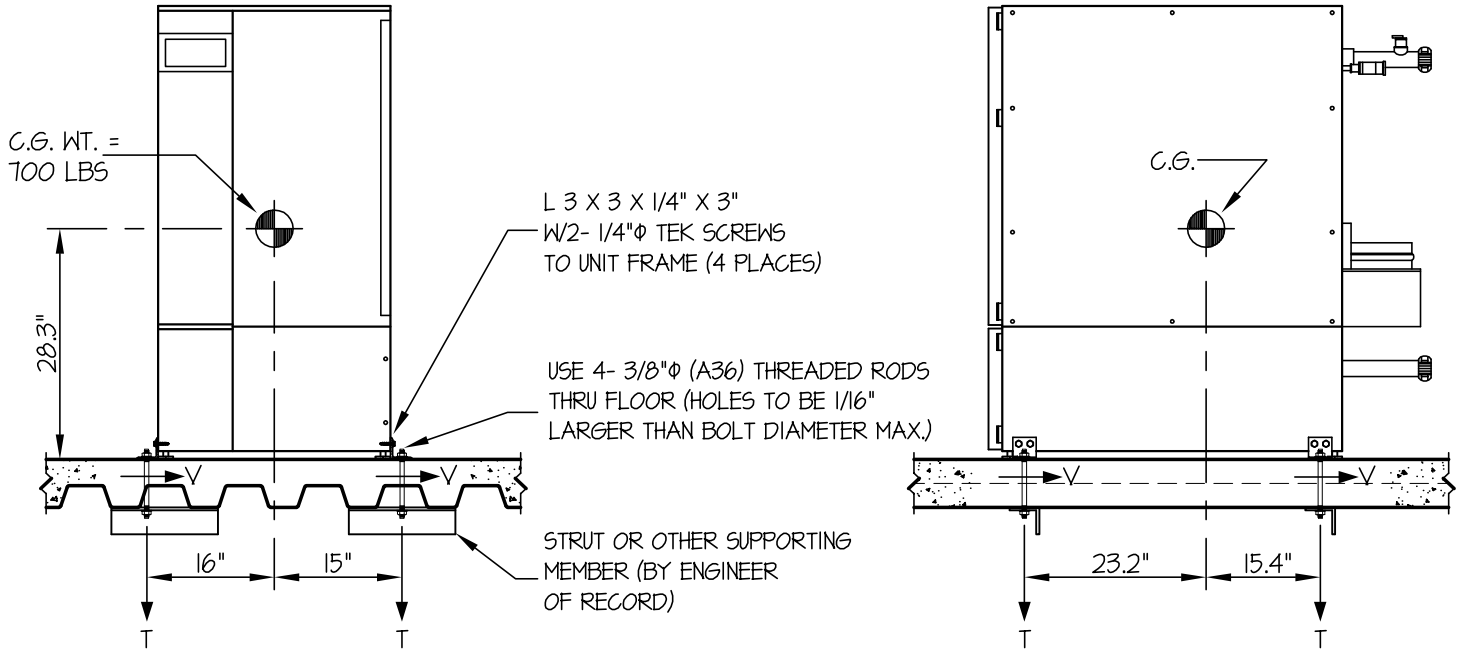
ENGINEER OF RECORD SHALL PROVIDE WALL STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN.



<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
	DATE <b>8/22/11</b>	
<b>P-K MACH SERIES C-900 BOILER</b>		

SEISMIC ANCHORAGE

ELEVATED FLOOR



FRONT ELEVATION

SIDE ELEVATION

T<sub>MAX</sub> = 558 LBS/BOLT  
V<sub>MAX</sub> = 303 LBS/BOLT

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

WEIGHT = 700 LBS

HORIZONTAL FORCE (E<sub>h</sub>) = 1.44W<sub>p</sub> = 1008 LBS

VERTICAL FORCE (E<sub>v</sub>) = 0.40W<sub>p</sub> = 189 LBS

BOLT FORCES:

TENSION (T)

$$T_{\text{MAXIMUM}} = \left[ \frac{1008\#(28.3'')(15'')}{38.6''(31'')} \times (0.3) \right] + \frac{1008\#(28.3'')(23.2'')}{31''(38.6'')} - \frac{(700\#(0.9) - 280\#(15'')(23.2''))}{31''(38.6'')} = 558 \text{ LBS/BOLT (MAX)}$$

( HORIZ - FRONT TO BACK )                      ( HORIZ - SIDE TO SIDE )                      ( WEIGHT (0.9) - E<sub>v</sub> )

SHEAR (V)

$$V_{\text{MAXIMUM}} = \frac{1008\#(23.2'')}{2\text{BOLTS}(38.6'')} = 303 \text{ LBS/BOLT (MAX)}$$

NOTE:

ENGINEER OF RECORD SHALL PROVIDE WALL STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN.

