WEIGHT = 1550 LBS
HORIZONTAL FORCE (Ed) = 0.90 Wp = 1395 LBS
VERTICAL FORCE (Ev) = 0.40 Wp = 620 LBS

BOLT FORCES:

TENSION (T)

\[
T_{\text{MAXIMUM}} = \left[ \frac{1395 \times (411)}{3 \text{ bolts (43.7")}} \times (0.3) \right] + \frac{1395 \times (27.3)}{2 \text{ bolts (28") (43.7")}} - \frac{(1550 - 620) \times (27.3)}{3 \text{ bolts (43.7")}} = 610 \text{ LBS/BOLT (MAX)}
\]

SHEAR (V)

\[
V_{\text{MAXIMUM}} = \frac{1395 \times (27.3)}{3 \text{ bolts (43.7")}} = 290 \text{ LBS/BOLT (MAX)}
\]

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-2500 BOILER

SEISMIC ANCHORAGE

ELEVATED FLOOR

WEIGHT = 1550 LBS
HORIZONTAL FORCE (Eh) = 144 Wp = 2232 LBS
VERTICAL FORCE (Ev) = 0.40 Wp = 620 LBS

BOLT FORCES:

TENSION (T)

\[
T_{\text{MAXIMUM}} = \left( \frac{2232 \#(41.1\text{")}}{2 \text{ bolts (43.7")} \times 0.3} \right) + \left( \frac{2232 \#(41.1\text{")}(27.3\text{")}}{2 \text{ bolts (28.9")}(43.7")} \right) - \left( \frac{1550 \#(0.9\text{") - 620\#(27.3\text{")}}{3 \text{ bolts (43.7")}} \right) = 1178 \text{ LBS/BOLT (MAX)}
\]

SHEAR (V)

\[
V_{\text{MAXIMUM}} = \left( \frac{2232 \#(27.3\text{")}}{3 \text{ bolts (43.7")}} \right) = 465 \text{ LBS/BOLT (MAX)}
\]

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