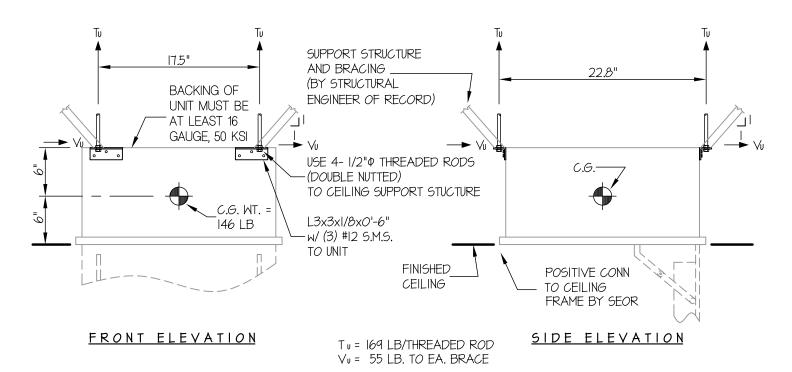


<u>SEISMIC ANCHORAGE</u> <u>CEILING MOUNTED</u>



LOADS: PER 2010 CALIFORNIA BUILDING CODE AND ASCE 7-05. (STRENGTH DESIGN IS USED) (SDS = 2.00, α_p = 2.5, I_p = 1.5, R_p = 2.5, $Z/h \le 1.0$) WEIGHT = 146 LB HORIZONTAL FORCE (En) = 3.60Wp = 526 LB VERTICAL FORCE (Ev) = 0.40Wp = 58 LB BOLT FORCES:

TENSION (T)

$$T_{\text{U MAXIMUM}} = \frac{526\#(6")}{2\text{Bolts}(17.5")} + \left[\frac{526\#(6")}{2\text{Bolts}(22.8")} \times (0.3)\right] + \frac{1.2(146\#) + 58\#}{4\text{Bolts}} = 169 \text{ LB/BOLT (MAX)}$$

$$(\text{HORIZ - SIDE TO SIDE}) \quad (\text{HORIZ - FRONT TO BACK}) \quad (\text{WEIGHT + E_V})$$

SHEAR (V)

 $V_{\text{u MAXIMUM}} = \frac{526\#}{4_{\text{BOLTS}}} = 132 \text{ LB/BOLT (MAX)}$ (PER AISC J3.7, LESS THAN 20% STRESS)



NOTE:

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