

**BUSINESS MACHINE SECURITY
 WALL MOUNTED PROJECTOR**

DES. **R. LA BRIE**

SHEET

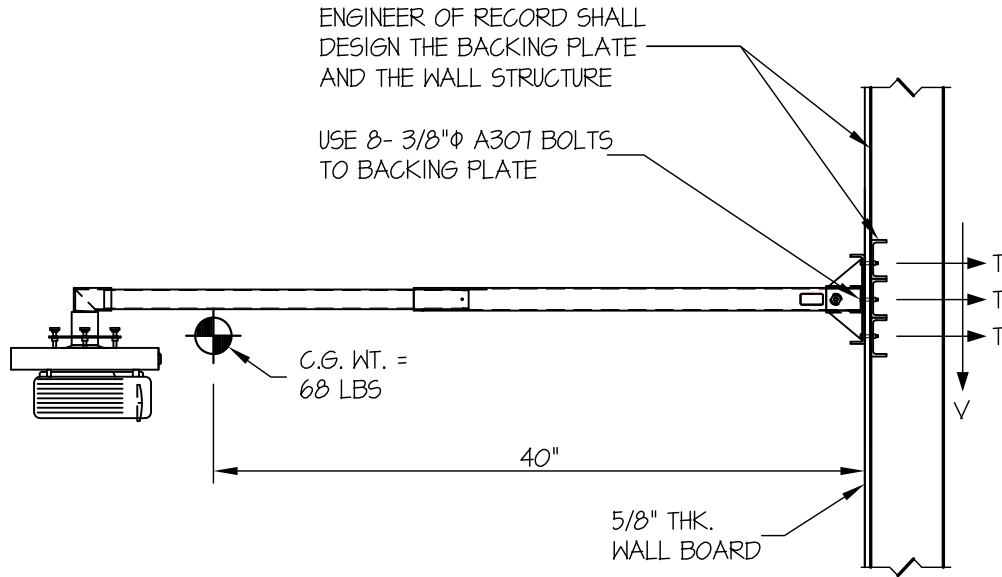
1

JOB NO. **11-0895**

DATE **11/25/08**

OF **2** SHEETS

SEISMIC ANCHORAGE



ELEVATION

T_{MAX} = 332 LBS/SCREW
 V_{MAX} = 86 LBS/SCREW

NOTES:

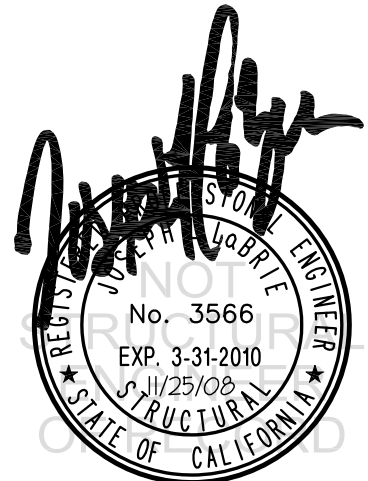
1. FORCES ARE DETERMINED PER 2007 CALIFORNIA BUILDING CODE SECTION 1613A AND ASCE 7-05 SECTIONS 12 AND 13. ALLOWABLE STRESS DESIGN IS USED.

HORIZONTAL FORCE (E_H) = $2.43 W_p$ ($S_{ps} = 1.93, a_p = 2.5, I_p = 1.5, R_p = 2.5$)

VERTICAL FORCE (E_V) = $0.27 W_p$

2. CENTER OF GRAVITY (C.G.) WEIGHT IS A MAXIMUM. THIS CALCULATION ENCOMPASSES ALL WEIGHTS UP TO THE MAXIMUM WEIGHT SHOWN.

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



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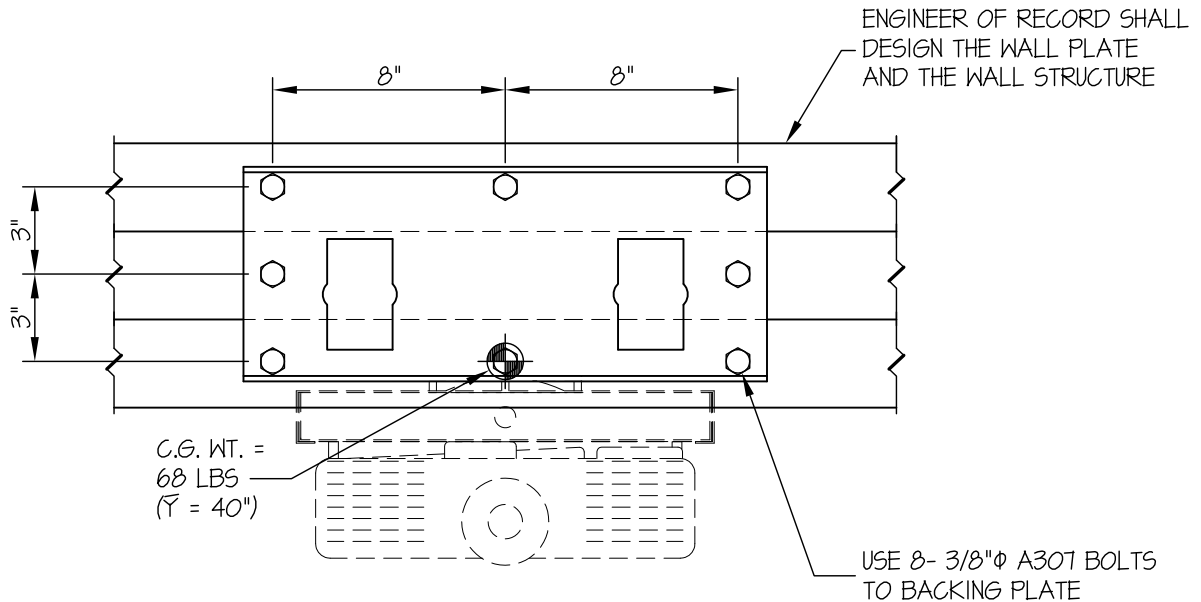
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SHEET

2

OF **2** SHEETS

SEISMIC ANCHORAGE



PLAN AT WALL

LOADS:

WEIGHT = 68 LBS (INCLUDES 35 LB MAX LOAD RATING)

HORIZONTAL FORCE (E_h) = $2.43 W_p = 165$ LBS

VERTICAL FORCE (E_v) = $0.27 W_p = 18$ LBS

TENSION (T)

$$T_{\text{VERTICAL}} = \frac{(68\# + 18\#)40\#}{3 \text{ BOLTS}(6\#)} = 191 \text{ LBS}$$

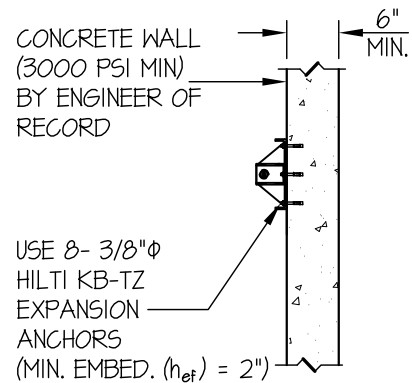
$$T_{\text{PARALLEL}} = \frac{165\#(40\#)}{3 \text{ BOLTS}(16\#)} = 138 \text{ LBS}$$

$$T_{\text{PERP.}} = \frac{85\#(6\#)}{3 \text{ BOLTS}(6\#)} = 28 \text{ LBS}$$

$$T_{\text{MAX}} = 191\# + \sqrt{138^2 + 28^2} = 332 \text{ LBS/BOLT (MAX)}$$

SHEAR (V)

$$V_{\text{MAX}} = \frac{68\# + 18\#}{8 \text{ BOLTS}} + \frac{165\#}{3 \text{ BOLTS}} + \frac{165\#(6\#)}{3 \text{ BOLTS}(16\#)} = 86 \text{ LBS/BOLT (MAX)}$$



CONCRETE WALL