SEISMIC ANCHORAGE

C.G. WT. = 274 LBS

USE 8-1/4" HILTI KBII EXPANSION ANCHORS (MIN. EMBED. = 2")

FRONT ELEVATION

8.71" 10.48"

SIDE ELEVATION

363" 412"

LOADS: PER 2001 CALIFORNIA BUILDING CODE - SECTION 1632A (WORKING LOADS, NOT ULTIMATE)

WEIGHT = 274 LBS
HORIZONTAL FORCE (V_H) = 0.50 W = 140 LBS
VERTICAL FORCE (V_V) = 0.33(W) = 47 LBS

BOLT FORCES:

TENSION (T)

T SIDE TO SIDE = \frac{140\#(33.94") - (274\# - 47\#)8.71"}{2(19.25\")} = 70 LBS/BOLT

T FRONT TO BACK = \frac{140\#(33.94") - (274\# - 47\#)9.12"}{2(18.75\")} = 70 LBS/BOLT

T = 70\# + 70\#(0.3) = 91 LBS/BOLT (MAX)

SHEAR (V)

V = \frac{140\#(10.48")}{2(19.25\")} = 38 LBS/BOLT (MAX)

NOTE:

PROVIDE FLOOR STRUCTURE DESIGNED TO SUPPORT WEIGHTS AND FORCES SHOWN.
(BY ENGINEER OF RECORD FOR THE BUILDING)