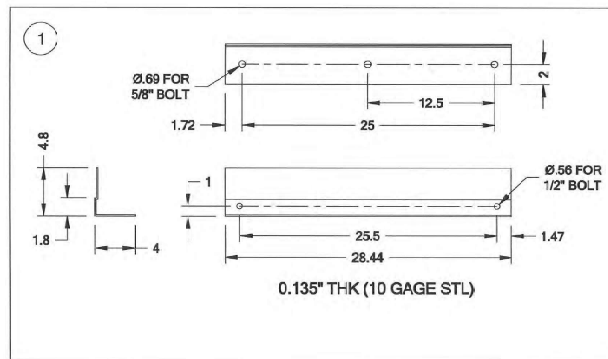
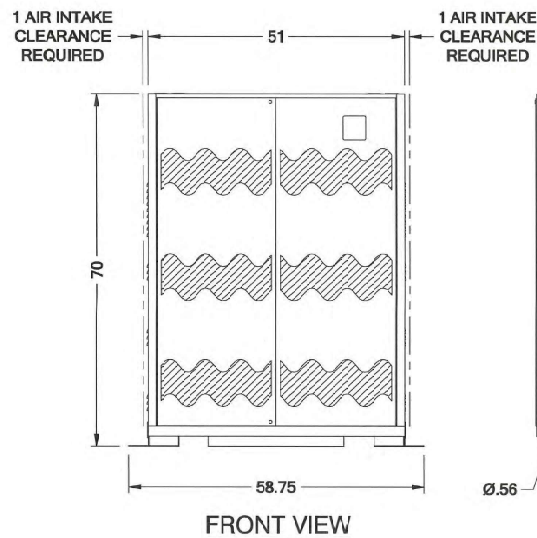
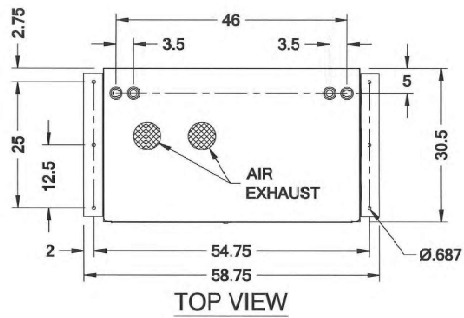


- NOTES:
1. DESIGNED PER THE 2018 IBC / 2019 CBC / 2020 LABC.
 2. STORAGE CAPACITY 4,640 MAX. WEIGHT.
 3. ANCHORS - 1/2" Ø Kwik Bolt T2.
 4. CONCRETE: 8" THICK - 2,500 PSI.
 5. SOI. BEARING PRESSURE: 500 PSF. (MIN. REQ'D).
 6. EVALUATION BASED ON NORTH-RIDGE LOCATION (ONE OF THE HIGHEST LA FAULT AREAS) WITH THE FOLLOWING CALCULATION AS A TYPICAL EXAMPLE (ASSUMED GROUND FLOOR INSTALLATION).

2 ANCHOR DETAIL

LOADS & DISTRIBUTION: CABINET

ANALYSIS BASED ON SECTION 13.3 OF THE ASCE 7-16 SPECIFICATION
REFERENCED IN CHAPTER 16 OF THE 2018 IBC/2019 CBC/2020 LABC

$f_p (13.3-1) = 0.4 \times (p \times S_{ps} \times W_p / R_p / I_p)$	0.234 x Wp	
$f_p (13.3-2) = 1.5 \times S_{ps} \times b \times W_p$	2.336 x Wp	SHALL NOT BE GREATER THAN
$f_p (13.3-3) = 0.3 \times S_{ps} \times b \times W_p$	0.338 x Wp	SHALL NOT BE LESS THAN

SITE CLASS = D

$R_a = 1.2$

$S_s = 1.80$

$S_{ps} = 1.45$

$I_p = 1.00$

$R_p = 2.5$

$w_p = 1$

$W_p = 4640 \text{ LB}$

$0.77p = 0.77 \times 0.48 \times W_p$

$= 0.31 \times 4640 \text{ LB}$

$= 1,423 \text{ LB}$

OVERTURNING ANALYSIS:

CABINET HEIGHT, H = 70.0 IN

ANCHORS SPACING, D = 25.0 IN

$M_{ot} = W_{total} \times (L/2 + H)$

$= 3452 \text{ LB} \times 70 \text{ IN} \times 1/2$

$= 49,792 \text{ IN-LB}$

$M_{st} = W_p \times D/2$

$= 4640 \text{ LB} \times 25 \text{ IN}/2$

$= 58,000 \text{ IN-LB}$

$P_{up}/R_t = (M_{st} - 0.5 \times M_{ot})/C$

$= (58,000 \text{ IN-LB} - 0.5 \times 49,792 \text{ IN-LB})/25 \text{ IN}$

$= 600 \text{ LB}$

$< 1,423 \text{ LB}$

ANCHORS

ALLOWABLE CAPACITY PER ICC REPORT AND AC308.34 CHAPTER 17

PULLOUT: 639 LB

SHEAR: 500 LB

COMBINED STRESS = $(500 \text{ LB}/2,000 \text{ LB}) + (1,423 \text{ LB}/5,400 \text{ LB})$

$= 0.50$

$< 1.2 \text{ OK}$

USE 1/2" Ø x 2-3/8" MIN. EMBED. BOLT 1/2" Ø (ICC ESR-1917) OR APPROVED EQUAL.

(5) PER CABINET

CALCULATIONS

POWER COMPANY
NORTHIDGE, CALIFORNIA

ADDRESS

DESCRIPTION

BY

DATE

REV

DATE

DESCRIPTION

BY

DATE

REV

DATE

DESCRIPTION

BY

DATE

REV

DATE

DESCRIPTION

BY

DATE

REV

DATE

DESCRIPTION

BY

DATE

REV

DATE

DESCRIPTION

BY

DATE

REV

DATE

CABINET ELEVATIONS

CABINET DETAILS

DRAWING NUMBER:

20-0491-B