

- NOTES:**
- DESIGNED PER THE 2012 IBC, 2013 CBC, 2014 IABC.
 - STORAGE CAPACITY: 700# MAX. WEIGHT.
 - ANCHORS HIT K&W BOLT, ICC #E8R-1H7, LARR #25701
 - ENCLOSURE SHALL BE CONFORMANT TO UL 954 TYPE 1.
 - SOIL BEARING CAPACITY: 2000 PSF (MIN. BOD).
 - EVALUATION BASED ON NORTHRIDGE LOCATION.
 - WITH THE FOLLOWING CALCULATION AS A TYPICAL EXAMPLE (ASSUMED GROUND FLOOR INSTALLATION)

LOADS & DISTRIBUTION: MINI POWER WAVE

ANALYSIS BASED ON SECTION 13.3 OF THE ASCE 7-10 SPECIFICATION REFERENCED IN CHAPTER 16 OF THE 2012 IBC/2013 CBC/2014 IABC

$F_p(13.3-1) = 0.4 \times a_p \times S_{ps} \times W_p / R_p / I_p = 0.235 \times W_p$
 $F_p(13.3-2) = 1.6 \times S_{ps} \times I_p \times W_p = 2.352 \times W_p$
 $F_p(13.3-3) = 0.3 \times S_{ps} \times I_p \times W_p = 0.441 \times W_p$

SHALL NOT BE GREATER THAN
SHALL NOT BE LESS THAN

SITE CLASS = D

$F_s = 1$

$S_s = 2.2$

$S_{ps} = 1.47$

$I_p = 1.00$

$R_p = 2.5$

$a_p = 1$

$W_p = 760 \text{ LB}$

$0.7F_p = 0.7 \times 0.441 \times W_p = 0.31 \times 760 \text{ LB} = 235 \text{ LB}$

OVERTURNING ANALYSIS:

CABINET HEIGHT, H1 = 34.0 IN
ANCHORS SPACING, D = 14.5 IN

$M_{ot} = W_{ave} \times H_1 / 2 = 235 \text{ LB} \times 34 \text{ IN} \times 1/2 = 3,988 \text{ IN-LB}$

$M_{st} = W_p \times D / 2 = 760 \text{ LB} \times 14.5 \text{ IN} / 2 = 5,510 \text{ IN-LB}$

$P_{uplift} = (W_{ot} - 0.6 \times M_{ot}) / D = (3,988 \text{ IN-LB} - 0.6 \times 5,510 \text{ IN-LB}) / 14.5 \text{ IN} = 47 \text{ LB}$

ANCHORS:

ALLOWABLE CAPACITY PER ICC REPORT AND ACI APPENDIX D

PULLOUT: 830 LB

SHEAR: 500 LB

COMBINED STRESS: $(67 \text{ LB} / 560 \text{ LB}) + (135 \text{ LB} / 600 \text{ LB}) = 0.69 < 1.2 \text{ OK}$

USE 1/2" Ø x 2-1/2" MIN. EMBED. HIT KIT, ICC ESR-1917 (LARR #25701) OR APPROVED EQUAL
(4) TOTAL PER CABINET, (2) PER SEISMIC BRACKET

POWER COMPANY
NORTHRIDGE, CA 91324

12/28/17

REV	DATE	BY	DESCRIPTION

REV	DATE	BY	DESCRIPTION

SEIZING ENGINEERING, INC.
1234567890
1234567890
1234567890
1234567890

EST. 1985
1234567890
1234567890
1234567890
1234567890

DATE: 12/28/17
BY: [Signature]
CHECKED: [Signature]
SCALE: AS SHOWN



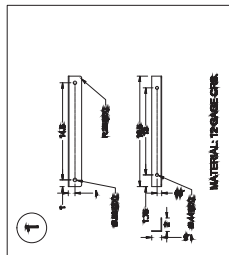
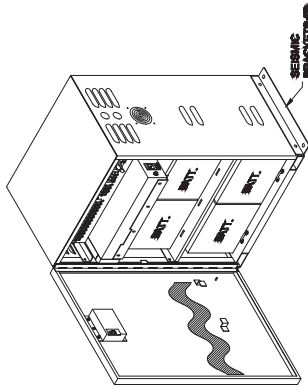
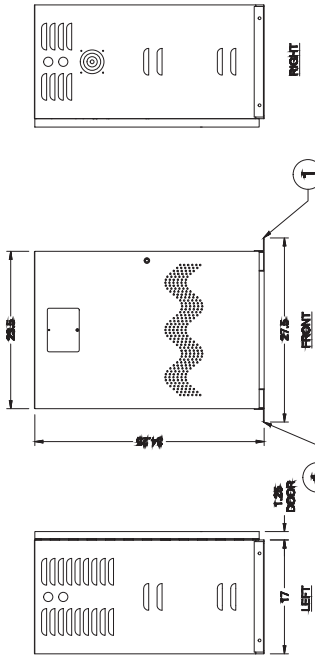
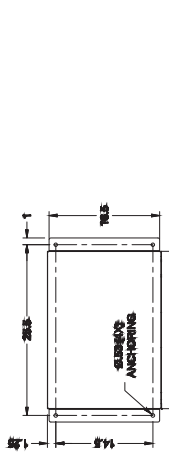
12/28/17

REVISION

CABINET DETAILS

15-2197-E

REV	NO.	DESCRIPTION	DATE	APPROVED



NOTES: UNLESS OTHERWISE SPECIFIED:

- ALL DIMENSIONS SHOWN ARE APPROXIMATE.
- ENCLOSURE: INDOOR NEMA TYPE 1, COLOR BLACK.
- DRAWINGS SHOWN WITH OPTIONAL SEISMIC.
- WEIGHT: FROM 288 LBS UP TO 760 LBS WITH BATTERIES.

MANUFACTURER: MINI POWER WAVE	DATE: 12/28/17
PROJECT: [Blank]	SCALE: AS SHOWN
DESIGNER: [Blank]	CHECKED: [Blank]
DRAWN: [Blank]	APPROVED: [Blank]