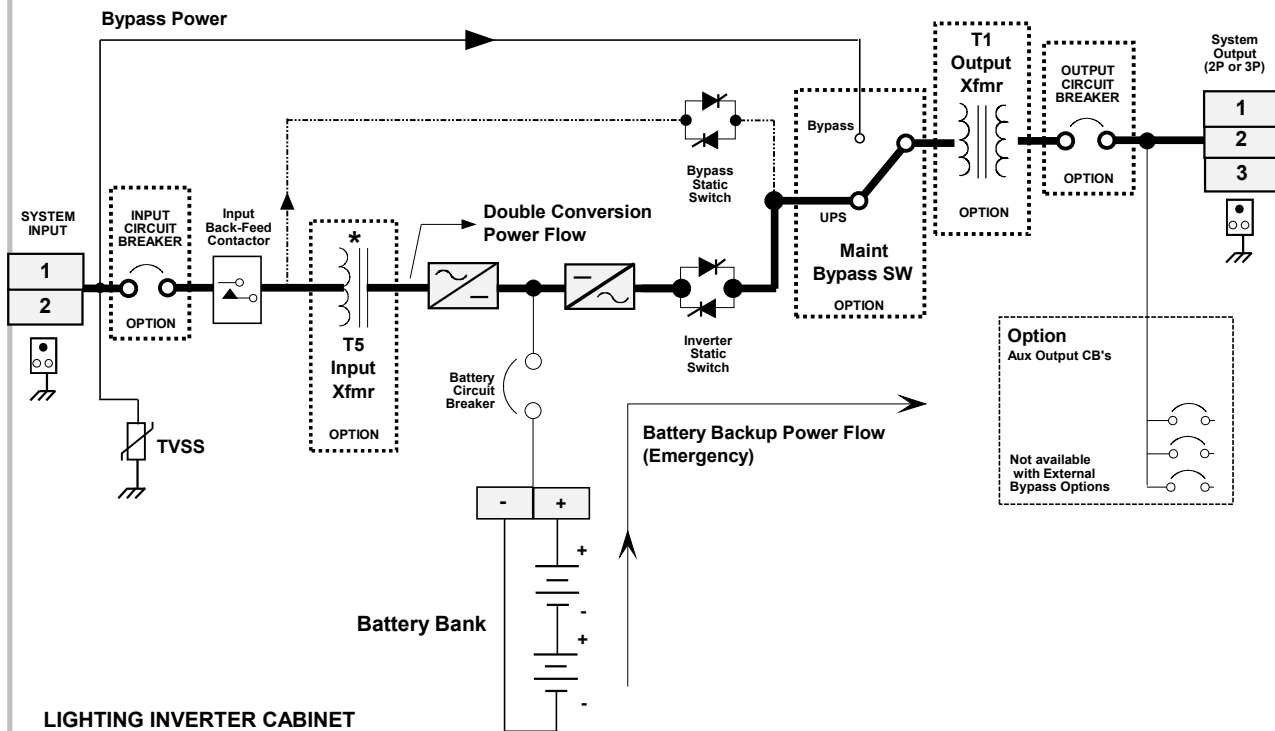


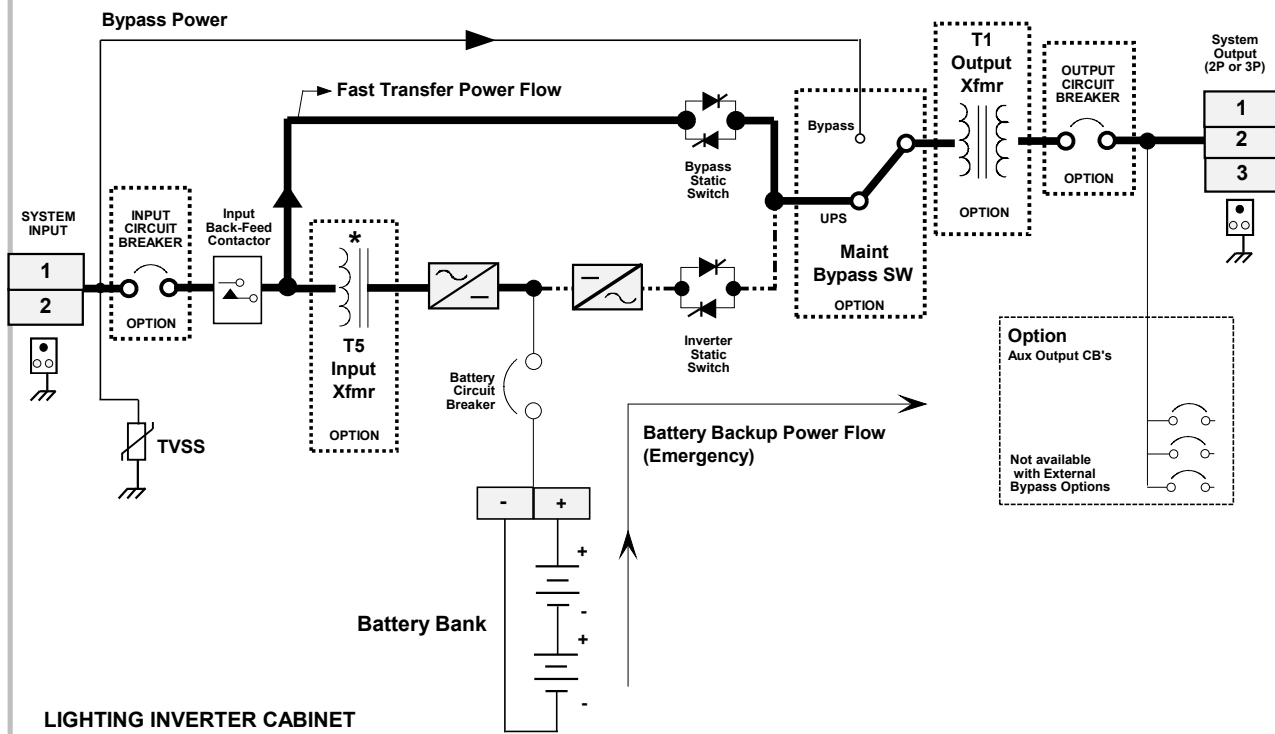
1 PHASE LIGHTING INVERTER TYPICAL SINGLE LINE DIAGRAM

INDOOR & OUTDOOR UNITS

□ DOUBLE CONVERSION UNITS (STANDARD)



□ FAST TRANSFER UNITS (OPTIONAL)

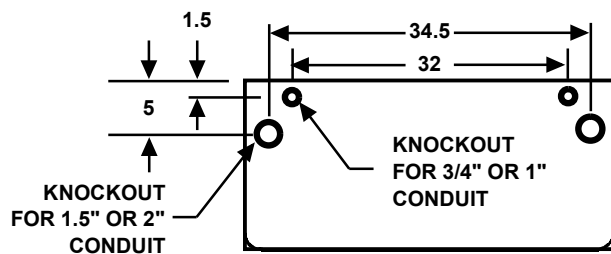


NOTES:

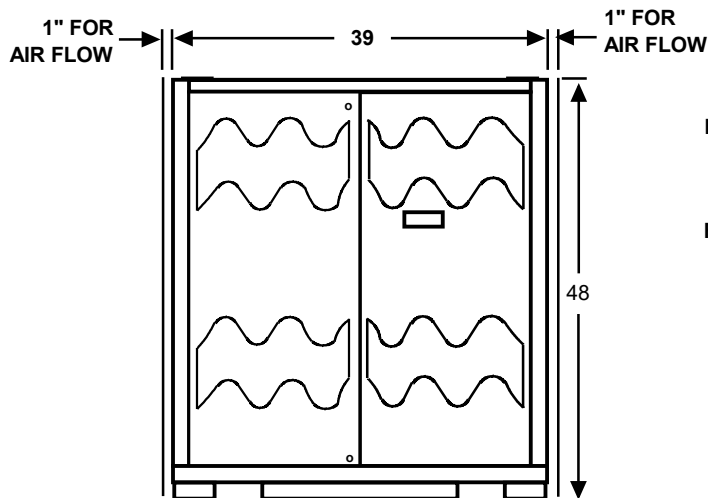
- *Static Bypass and Manual Bypass:
Will be powered from the transformer for different input and output voltage configurations
- Dotted blocks are optional features

		TYPICAL 1-PH LIGHTING INVERTER SINGLE LINE DIAGRAM	
SDR: SHERRIS.	10/11/22	DWG NO.: 110-TD-010	REV.: B
APPVD: M TANG	10/11/22		SHT 1 OF 1
CHKD: HAI	10/11/22	SUBJECT TO CHANGE WITHOUT NOTICE	

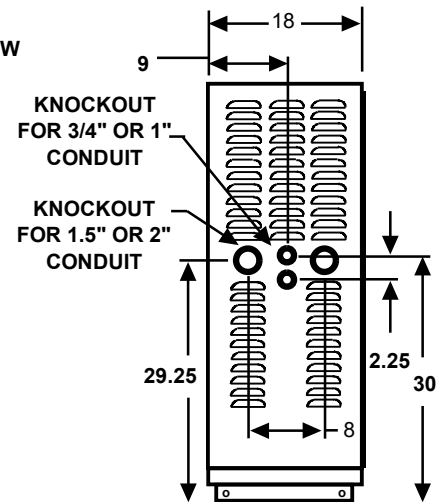
2.1 KW - 3 KW INVERTER WITH 90 MIN. BACKUP STANDARD VRLA BATTERY



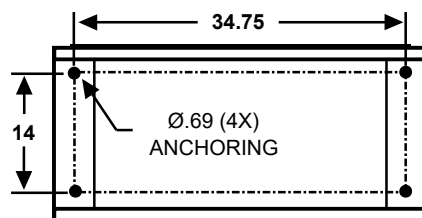
TOP VIEW



FRONT VIEW

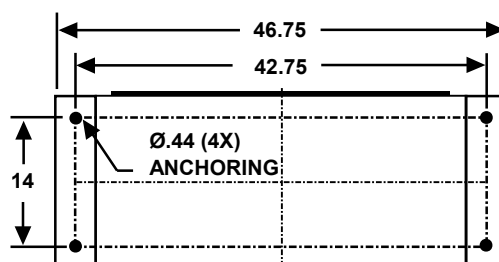


SIDE VIEW



BOTTOM VIEW

INSTALLATION WITH EXTERNAL SEISMIC BRACKETS FOR ZONE 4



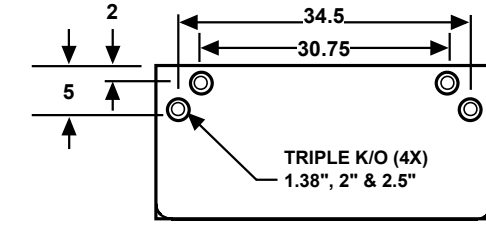
BOTTOM VIEW

NOTES:

- 1) CONSTRUCTION: NEMA 1 INDOOR
- 2) OPTIONAL SEISMIC BRACKETS AVAILABLE
- 3) FOR ANCHORING INFO., REFER TO SEISMIC DRAWING
- 4) ALL DIMENSIONS ARE IN INCHES

Beghelli by Line		STRATTA 1 1-PHASE UPS TECHNICAL DRAWINGS	
SDR : SS	10/11/22	DWG NO.: 110-TD-011	REV.: A
APPVD : HAI	10/11/22		SHT 1 OF 1
CHKD : HAI	10/11/22	SUBJECT TO CHANGE WITHOUT NOTICE	

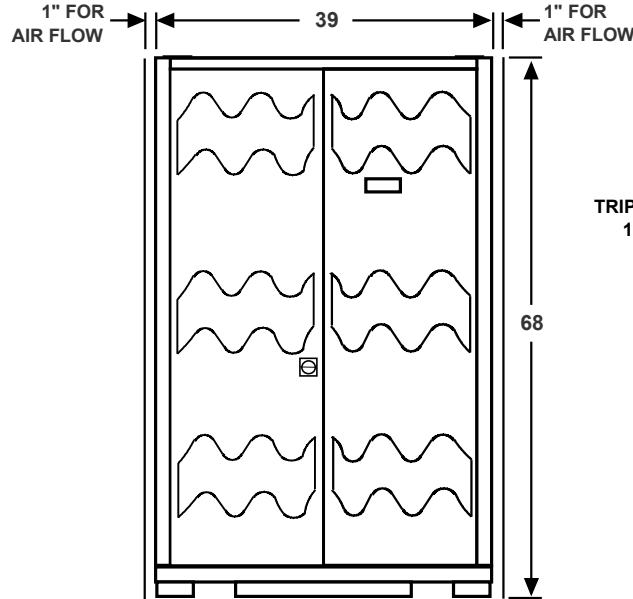
5, 6, & 8 KW INVERTER WITH 90 MIN. BACKUP STD VRLA BATTERY



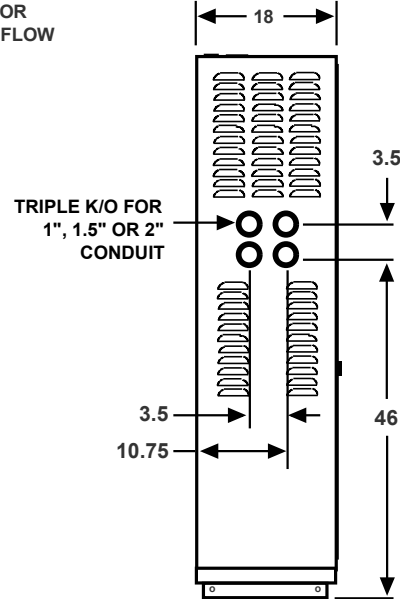
TOP VIEW

NOTES:

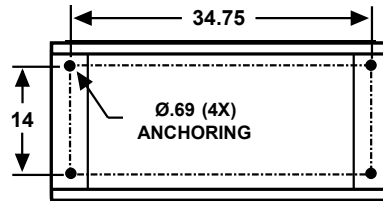
ALL DIMENSIONS ARE IN INCHES.



FRONT VIEW

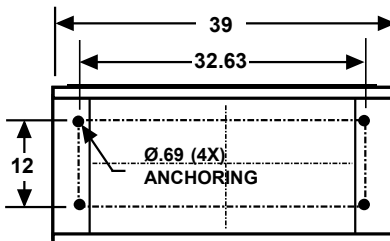


SIDE VIEW



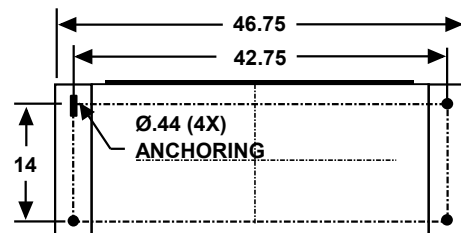
BOTTOM VIEW

INSTALLATION WITH INTEGRATED SEISMIC MOUNTING FOR ZONE 4



BOTTOM VIEW

INSTALLATION WITH EXTERNAL SEISMIC BRACKETS FOR ZONE 4



BOTTOM VIEW

NOTES:

ANCHORS FOR INTEGRATED SEISMIC MOUNTING:

1. USE 5/8" DIA x 3-3/4" MIN. EMBED. HILTI KB-TZ ANCHORS, ICC ESR-1917 (LARR#25701) OR APPROVED EQUAL (4) TOTAL PER CABINET, (2) PER ANCHOR BRACKET
2. CONCRETE 5" THICK x 2,500 PSI (MIN. REQ'D).
3. SOIL BEARING PRESSURE 500 PSF (MIN. REQ'D)

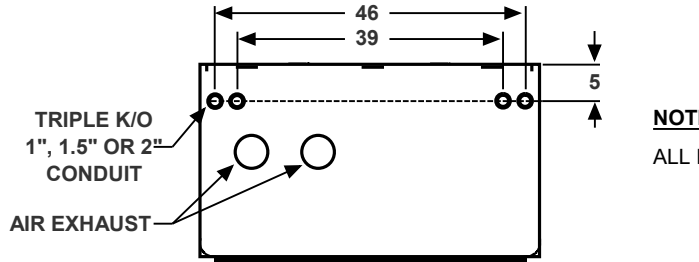
ANCHORS FOR EXTERNAL SEISMIC BRACKET:

1. USE 1/2" DIA x 3-1/2" MIN. EMBED. HILTI KB-TZ, ICC ESR-1917 (LARR#25701) OR APPROVED EQUAL (4) TOTAL PER CABINET.
2. CONCRETE 5" THICK x 2,500 PSI. (MIN. REQ'D).
3. SOIL BEARING PRESSURE: 500 PSF. (MIN. REQ'D).

FOR ALL DETAILS REFER TO SEISMIC DWG. FOR EACH CABINET MOUNTING

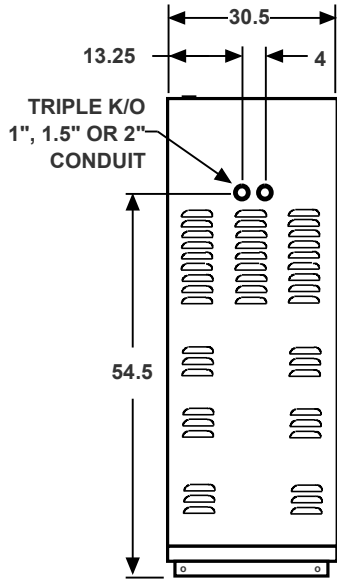
		STRATTA 1 1-PHASE UPS TECHNICAL DRAWINGS	
SDR : SS	10/11/22	DWG NO.: 110-TD-012	REV.: A
APPVD : HAI	10/11/22		SHT 1 OF 1
CHKD : HAI	10/11/22	SUBJECT TO CHANGE WITHOUT NOTICE	

10 KW - 17 KW INVERTER WITH 90 MIN. BACKUP STANDARD VRLA BATTERY

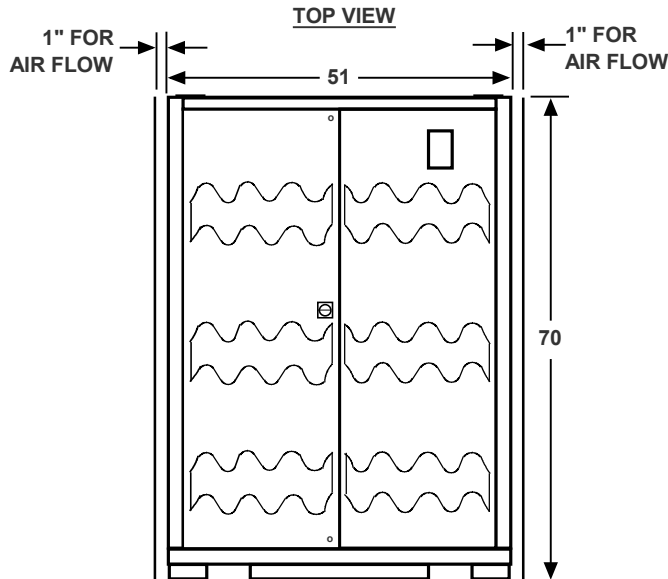


NOTES:

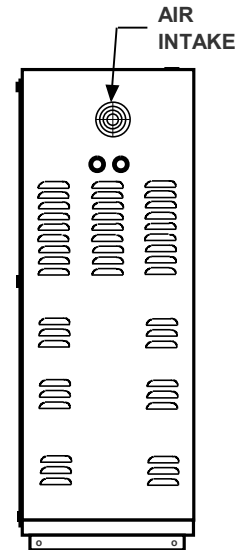
ALL DIMENSIONS ARE IN INCHES.



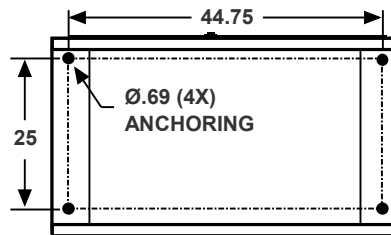
LEFT VIEW



FRONT VIEW

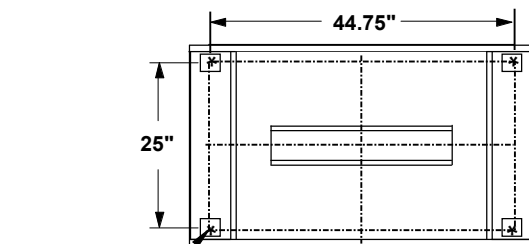


RIGHT VIEW



BOTTOM VIEW

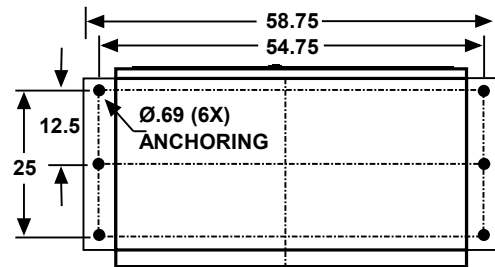
INSTALLATION WITH INTEGRATED SEISMIC MOUNTING FOR ZONE 4



BOTTOM

*- DENOTES ANCHOR LOCATION

INSTALLATION WITH EXTERNAL SEISMIC BRACKETS FOR ZONE 4



BOTTOM VIEW

NOTES:

ANCHORS FOR INTEGRATED SEISMIC MOUNTING:

1. USE 5/8" DIA x 3-3/4" MIN. EMBED. HILTI KB-TZ ANCHORS, ICC ESR-1917 (LARR#25701) OR APPROVED EQUAL
- (4) TOTAL PER CABINET, (2) PER ANCHOR BRACKET
2. CONCRETE 5" THICK x 2,500 PSI (MIN. REQ'D).
3. SOIL BEARING PRESSURE 500 PSF (MIN. REQ'D)

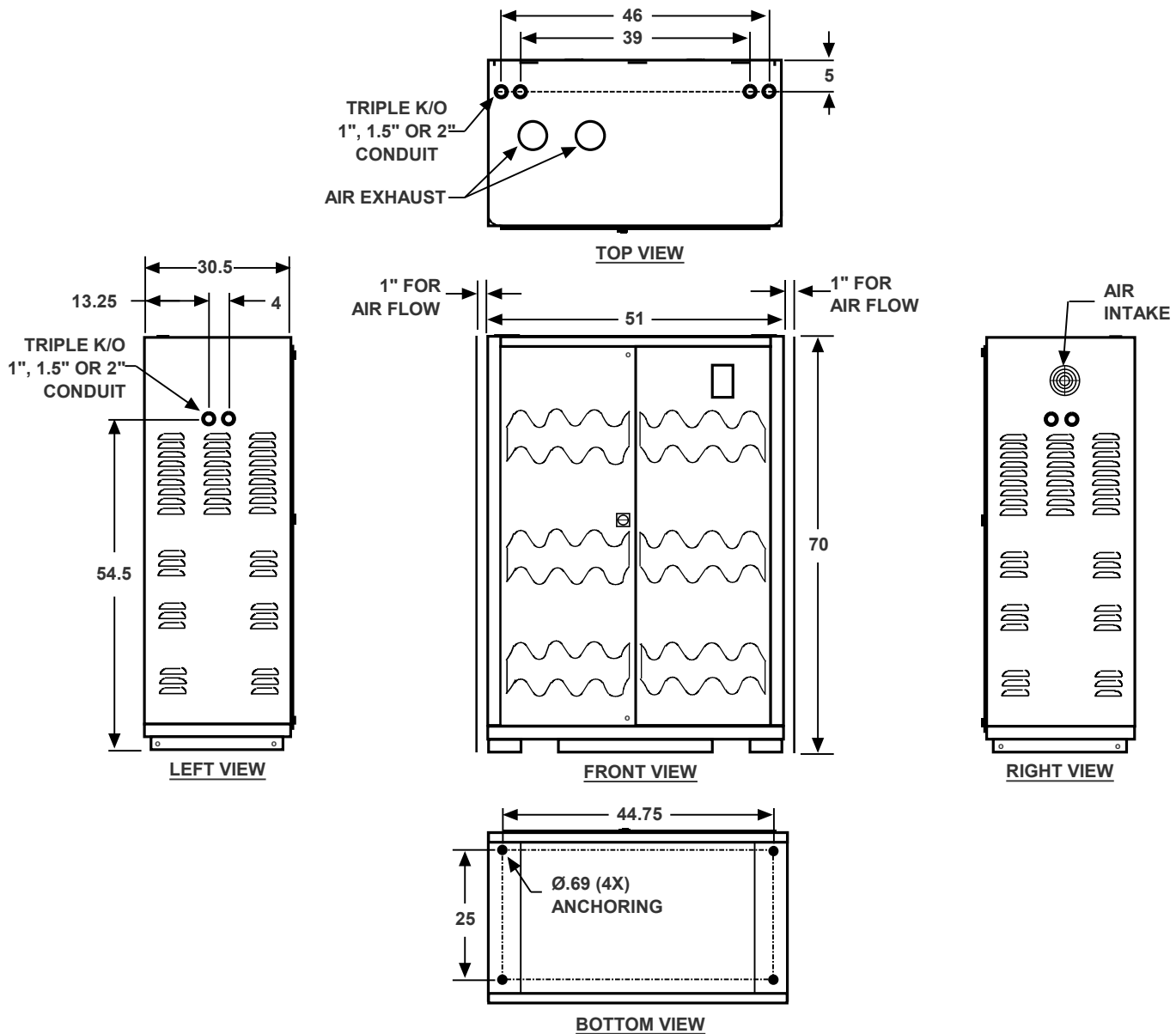
ANCHORS FOR EXTERNAL SEISMIC BRACKET:

1. USE 1/2" DIA x 2-3/8" MIN. EMBED. HILTI KB-TZ, ICC ESR-1917 OR APPROVED EQUAL
- (6) TOTAL PER CABINET.
2. CONCRETE: 5" THICK x 2,500 PSI (MIN. REQ'D).
3. SOIL BEARING PRESSURE: 500 PSF (MIN. REQ'D).

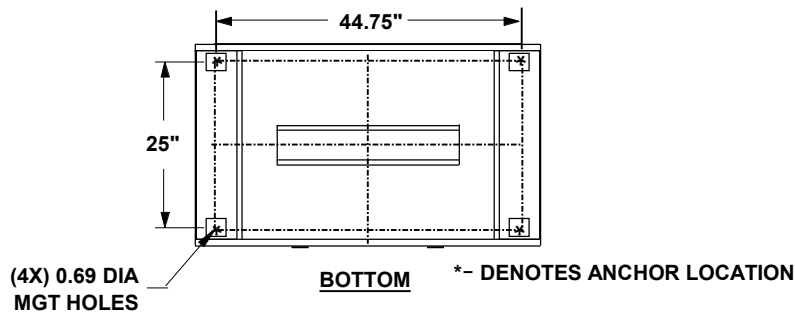
FOR ALL DETAILS REFER TO SEISMIC DWG. FOR EACH CABINET MOUNTING

Beghelli by eLine		STRATTA 1 1-PHASE UPS TECHNICAL DRAWINGS	
SDR : SS	10/11/22	DWG NO.: 110-TD-013	REV.: A
APPVD: HAI	10/11/22		SHT 1 OF 1
CHKD: HAI	10/11/22	SUBJECT TO CHANGE WITHOUT NOTICE	

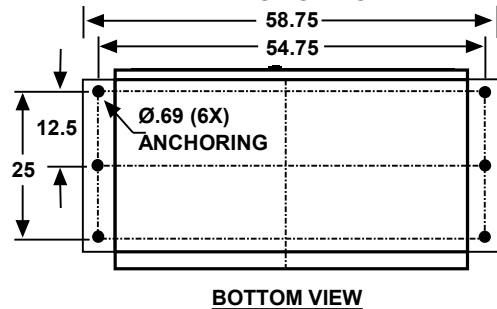
2.1 KW - 17 KW INVERTER WITH 90 MIN. BACKUP LONG LIFE BATTERY



INSTALLATION WITH INTEGRATED SEISMIC MOUNTING FOR ZONE 4



INSTALLATION WITH EXTERNAL SEISMIC BRACKETS FOR ZONE 4



NOTES:

- 1) ALL DIMENSIONS ARE IN INCHES.
- 2) LONG-LIFE BATTERY OPTION: 14KW THRU 17KW HAS 2 CABINETS:
ONE FOR ELECTRONICS/INVERTER
AND ONE FOR BATTERIES

		STRATTA 1 1-PHASE UPS TECHNICAL DRAWINGS	
SDR : SS	10/11/22	DWG NO.: 110-TD-014	REV.: A
APPVD : HAI	10/11/22		SHT 1 OF 1
CHKD : HAI	10/11/22	SUBJECT TO CHANGE WITHOUT NOTICE	

REMOTE STATUS PANEL

SIDE
MOUNT
PROVISION

BACK
MOUNT
PROVISION

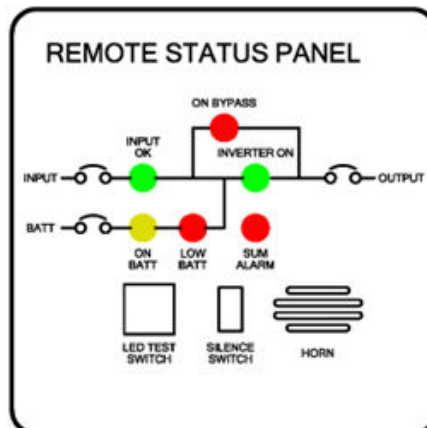


TO UPS P100 TERMINAL
BLOCK
SEE INSTALLATION
INSTRUCTION SHIPPED
WITH THE ASSEMBLY

USE
BUMPER
FOR
CONSOLE
INSTALL

Remote Status Panel displays the following:

INPUT OK:	Input power is within acceptable range
INVERTER ON:	Inverter is on
ON BYPASS:	Unit is on Bypass Mode
ON BATT:	Unit is running from Battery
LOW BATT:	Battery voltage is at low voltage before shutdown
SUM ALARM:	Unit is on critical alarm such as: Over temperature, DC OV/UV
HORN:	Audible warning for alarm condition
SILENCE WATCH:	Silences the audible warning
LED TEST:	Tests the LED's by push in



REMOTE STATUS PANEL ASSEMBLY

SDR : MT 12/28/22
APPVD : HAI 12/28/22
CHKD : MT 12/28/22

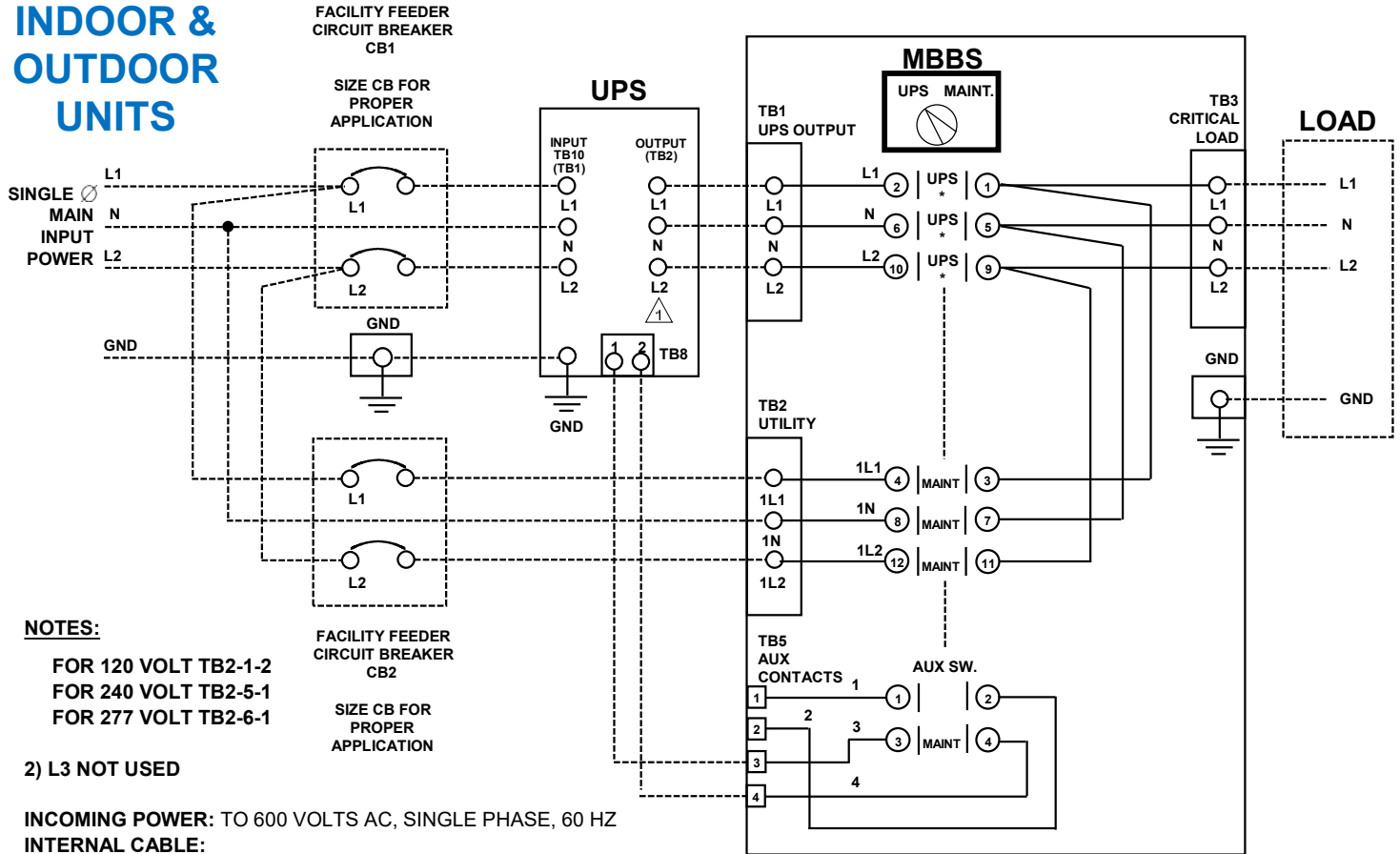
DWG NO.:
110-SV-TD-014

REV.: A
SHT 1 OF 1

SUBJECT TO CHANGE WITHOUT NOTICE

SINGLE-PHASE "MAKE BEFORE BREAK" EXTERNAL WRAP AROUND BY-PASS SWITCH

INDOOR & OUTDOOR UNITS



SWITCH DIMENSIONS

3000-046	175 AMPS	20	20	12	18.5	18.5
3000-045	110 AMPS	14	16	10	12	16.75
3000-044	55 AMPS	14	16	6	12	16.75
PART NUMBER	RATING	DIM A	DIM B	DIM C	DIM D (MTG)	DIM E (MTG)

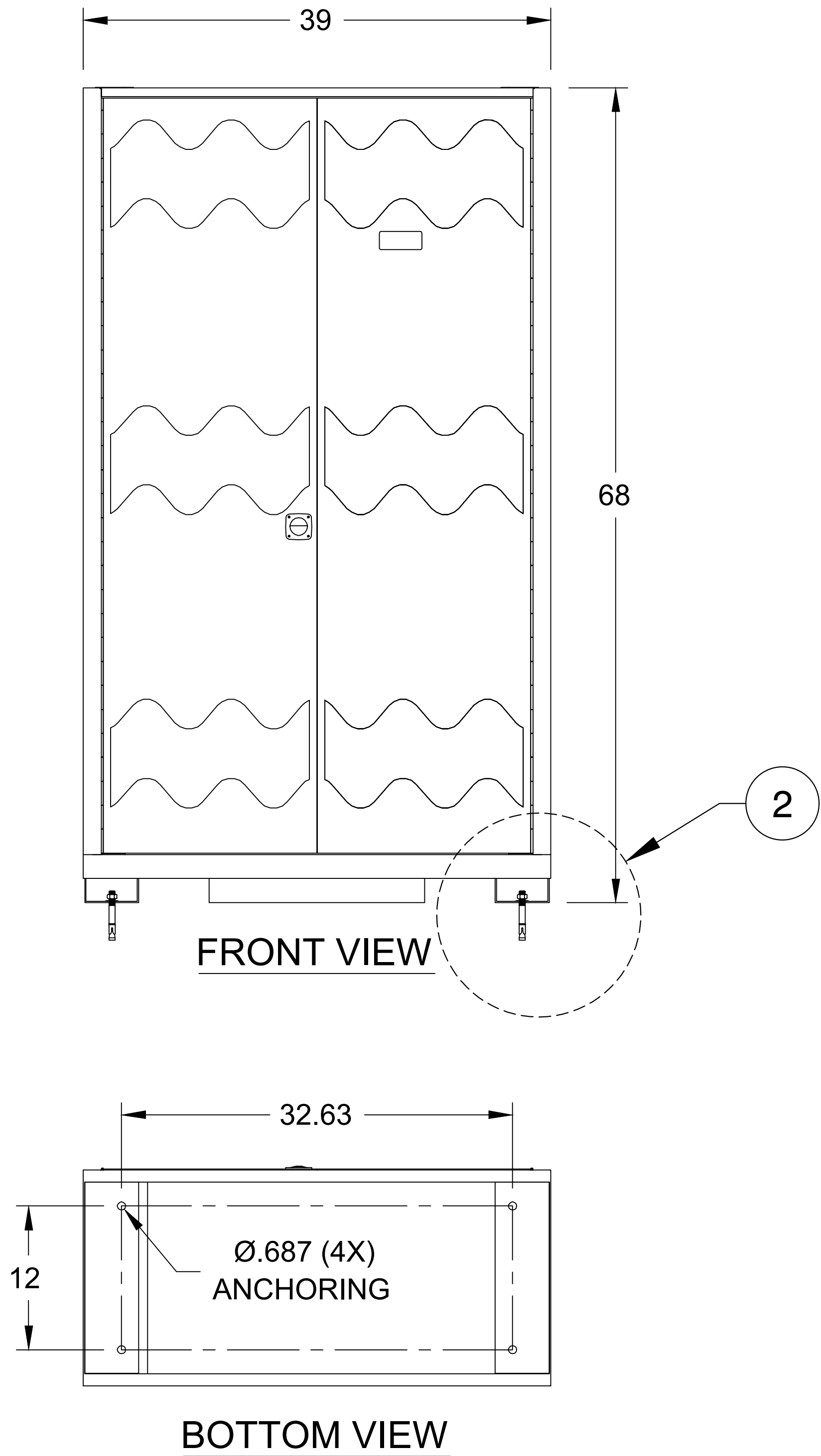
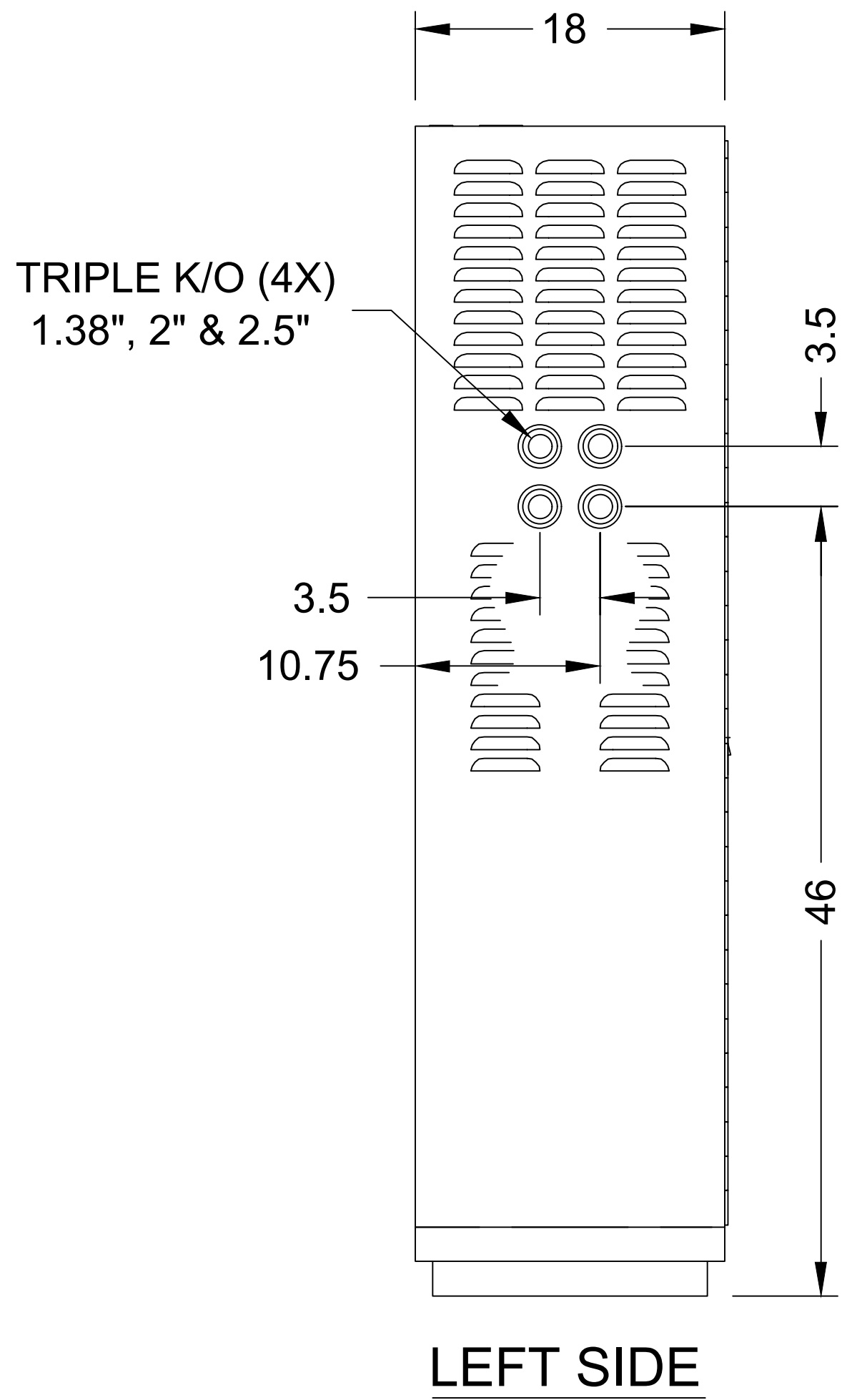
SELECTION CHART FOR SINGLE PHASE UPS

KVA	KVA	KVA	KVA	KVA	KVA	FOR WIRING DIAGRAM SEE DWG
3	5	7.5	10	15	20	
3000-044	3000-044	3000-044	3000-045	3000-045	3000-045	6001-032-11-S

NOTES:

- 1) SWITCH CONTACTS ARE SINGLE PHASE L-NEUTRAL "MAKE BEFORE-BREAK".
- 2) CONTACTS MARKED "UPS" ARE CLOSED IN THE "UPS" POSITION.
- 3) CONTACTS MARKED "BYPASS" ARE CLOSED IN THE "BYPASS" POSITION.
- 4) CONTACTS MARKED "SBS" ARE CLOSED IN THE "SBS" POSITION.
- 5) WRAP AROUND BY-PASS SWITCH SHOULD BE USED WITH SAME INPUT/OUTPUT VOLTAGE
- 6) WRAP AROUND BY-PASS SWITCH CAN ONLY BE USED WITHOUT ANY BUILT IN SECONDARY DISTRIBUTION CIRCUIT BREAKER IN UPS.

		STRATTA 1 1-PHASE UPS TECHNICAL DRAWINGS	
SDR : SS	10/11/22	DWG NO.: 110-TD-015	REV.: A
APPVD : HAI	10/11/22		SHT 1 OF 1
CHKD : HAI	10/11/22	SUBJECT TO CHANGE WITHOUT NOTICE	



LOADS & DISTRIBUTION:
ANALYSIS BASED ON SECTION 13.3 OF THE ASCE 7-16 SPECIFICATION
REFERENCED IN CHAPTER 16 OF THE 2021 IBC/2022 CBC/2023 LABC

Fp (13.3-1)= $0.4 \times ap \times S_{DS} \times Wp / [Rp / Ip]$	0.234 x Wp	
Fp (13.3-2)= $1.6 \times S_{DS} \times Ip \times Wp$	2.336 x Wp	SHALL NOT BE GREATER THAN
Fp (13.3-3)= $0.3 \times S_{DS} \times Ip \times Wp$	0.438 x Wp	SHALL NOT BE LESS THAN

SITE CLASS = D
Fa = 1.2
Ss = 1.82
SDS = 1.46
Ip = 1.00
Rp = 2.5
ap = 1

ASCE 7-16 Table 13.5-1
ASCE 7-16 Table 13.5-1

Wp = 2150 LB

$0.7Fp = 0.7 * 0.438 * Wp$
= $0.31 * 2150$ LB
= 659 LB

OVERTURNING ANALYSIS:
CABINET HEIGHT, Ht = 68.0 IN
ANCHORS SPACING, D = 12.0 IN

Mot = $V_{total} * (1/2 Ht)$
= 659 LB * 68 IN * 1/2
= 22,412 IN-LB

Mst = $Wp * D / 2$
= 2150 LB * 12 IN / 2
= 12,900 IN-LB

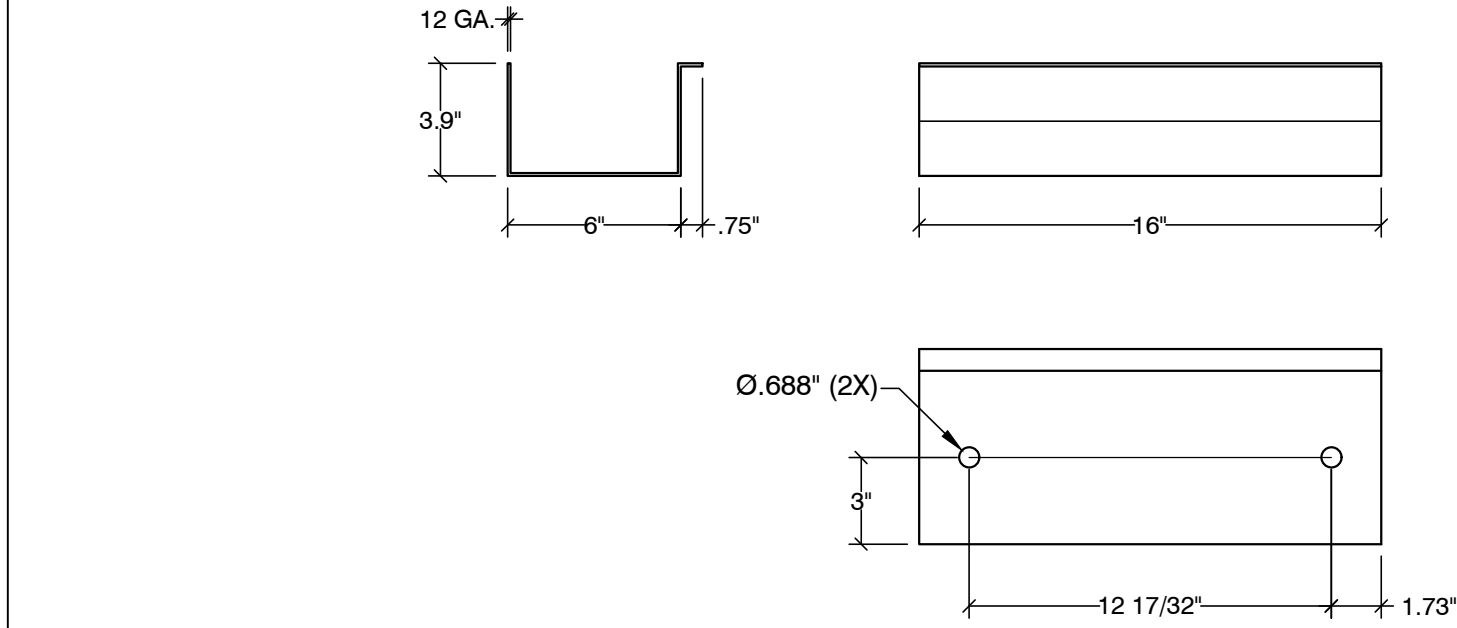
Puplift = $(Mot - 0.6 * Mst) / D$
= $(22412 \text{ IN-LB} - 0.6 * 12900 \text{ IN-LB}) / 12 \text{ IN}$
= 1223 LB <= UPLIFT

ANCHORS
ALLOWABLE CAPACITY PER ICC REPORT AND ACI 318-19 CHAPTER 17
PULLOUT : 1170 LB
SHEAR : 2390 LB

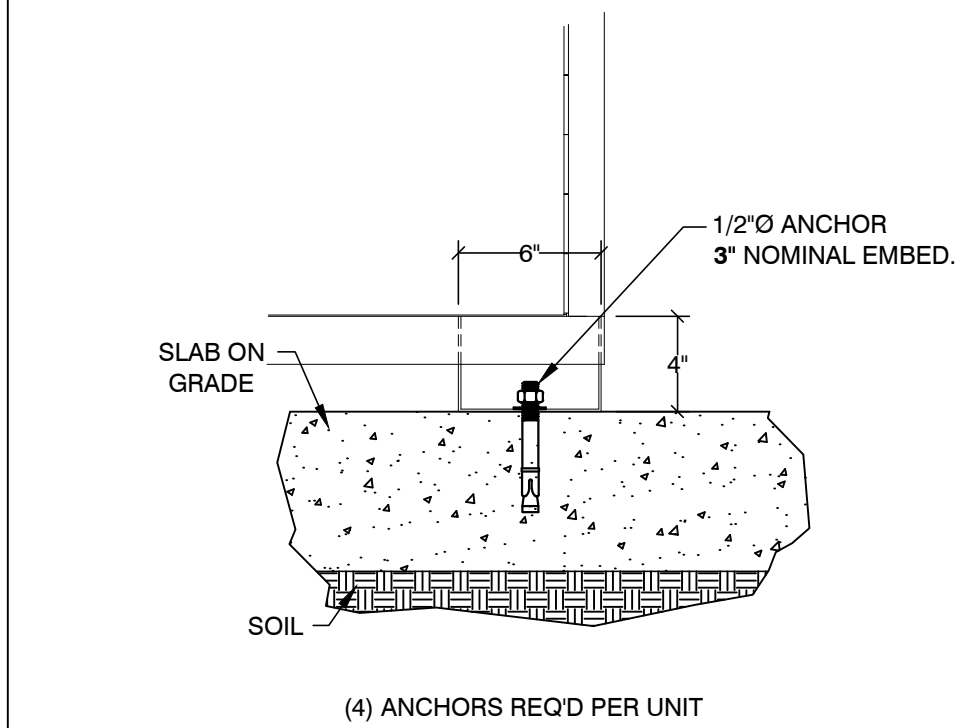
Tallowable, ASD
Vallowable, ASD

COMBINED STRESS = $(1223 \text{ LB} / 2340 \text{ LB}) + (659 \text{ LB} / 9560 \text{ LB})$
= 0.59 < 1.2 OK

USE 1/2" Ø x 3" MIN. EMBED. HILTI KB-TZ2 (ICC ESR-4266) OR APPROVED EQUAL
(4) PER CABINET, (2) PER ANCHOR BRACKET



1 ANCHOR BRACKET DETAIL



- NOTES:**
- DESIGNED PER THE 2021 IBC / 2022 CBC / 2023 LABC, Fa = 1.2 & Ss = 1.82
 - STORAGE CAPACITY: 2,150# MAX. WEIGHT.
 - ANCHORS: HILTI KWIK BOLT TZ 2, ICC #ESR-4266 W/ LABC SUPPLEMENT
 - CONCRETE: 5" THICK x 2,500 PSI.
 - SOIL BEARING PRESSURE: 500 PSF. (MIN. REQ'D).
 - EVALUATION BASED ON NORTHRIDGE LOCATION (ONE OF THE HIGHEST LA FAULT AREAS) WITH THE FOLLOWING CALCULATION AS A TYPICAL EXAMPLE. (ASSUMED GROUND FLOOR INSTALLATION)

2 ANCHOR DETAIL

POWER COMPANY
9301 TAMPA AVE.
NORTHRIDGE, CA 91324

ADDRESS:

DESCRIPTION

BY

DATE

REV



EST. 1985
SEIZMIC
ENGINEERING, INC.
1130 E. Cypress St.
Covina, California
91724
Tel. (909) 869-0989

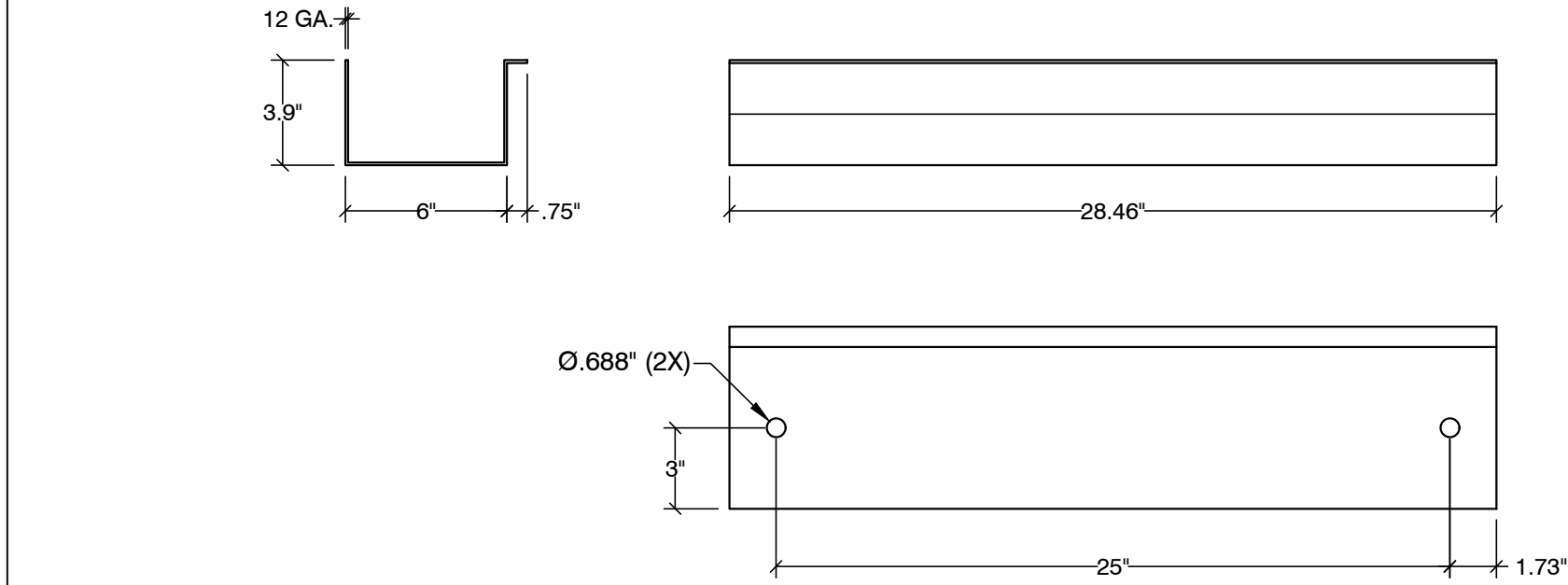
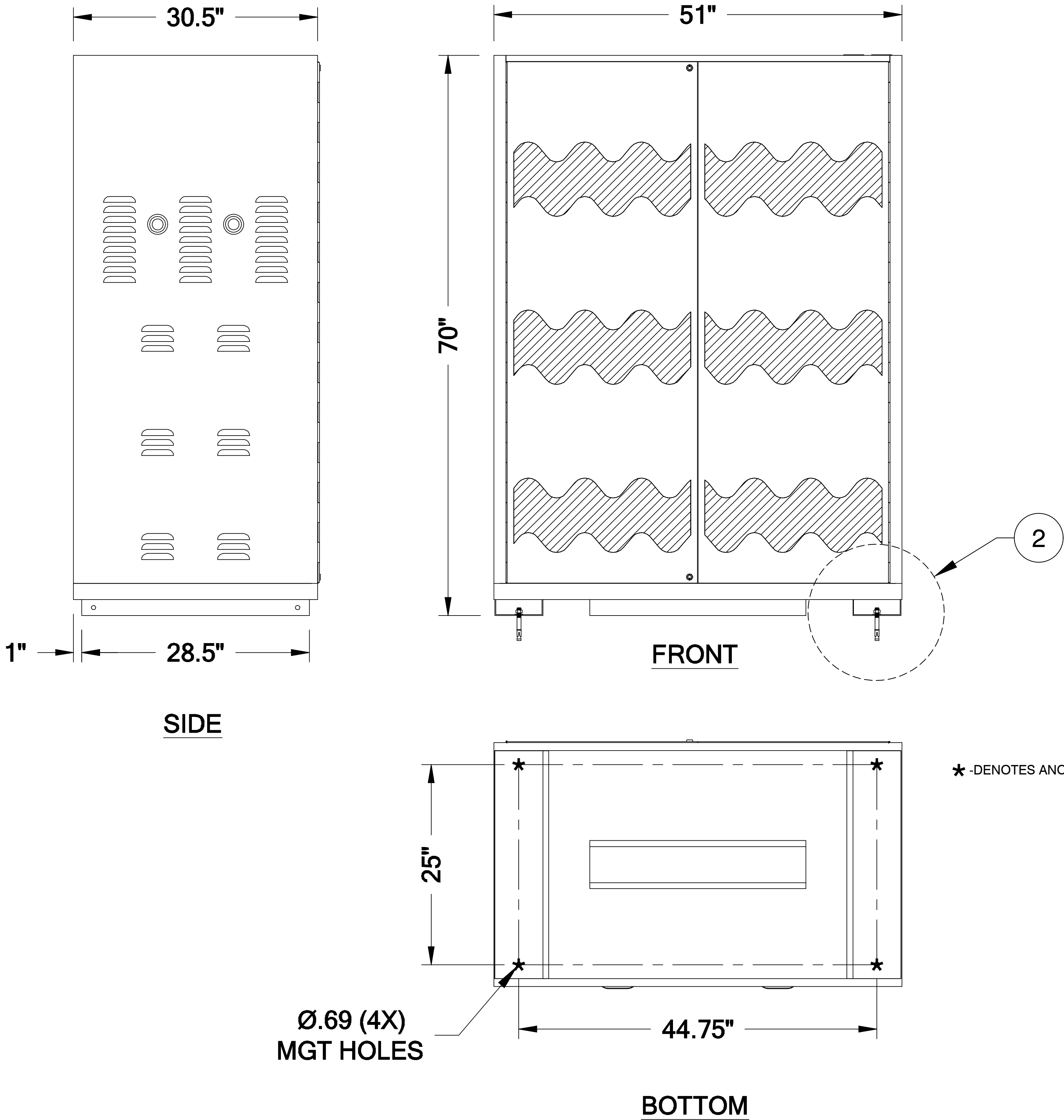
DRAWN BY: M.V. / T.C.
DATE: 01/11/23
LAST REV. BY:
REV. DATE:
TYPE:
SCALE: N.T.S.
APRVD BY: SAL E. FATEEN



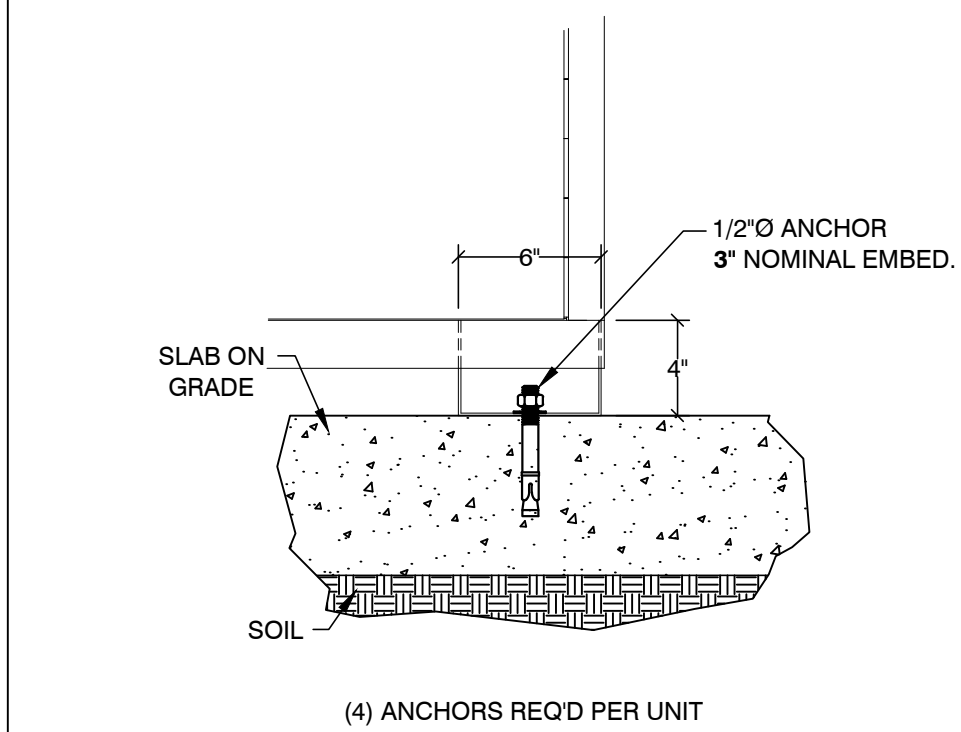
DESCRIPTION:

CABINET
DETAILS

DRAWING NUMBER:
23-0067-A



1 ANCHOR BRACKET DETAIL



- NOTES:
1. DESIGNED PER THE 2021 IBC / 2022 CBC / 2023 LABC, Fa = 1.2 & Ss = 1.82
 2. STORAGE CAPACITY: 4,640# MAX. WEIGHT.
 3. ANCHORS: HILTI KWIK BOLT TZ 2, ICC #ESR-4266 W/ LABC SUPPLEMENT
 4. CONCRETE: 5" THICK x 2,500 PSI.
 5. SOIL BEARING PRESSURE: 500 PSF. (MIN. REQ'D).
 6. EVALUATION BASED ON NORTHRIDGE 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:

ANALYSIS BASED ON SECTION 13.3 OF THE ASCE 7-16 SPECIFICATION REFERENCED IN CHAPTER 16 OF THE 2021 IBC/2022 CBC/2023 LABC

Fp (13.3-1)= 0.4 x ap x S _{DS} x Wp/ [Rp/ Ip]	0.234 x Wp	
Fp (13.3-2)= 1.6 x S _{DS} x Ip x Wp	2.336 x Wp	SHALL NOT BE GREATER THAN
Fp (13.3-3)= 0.3 x S _{DS} x Ip x Wp	0.438 x Wp	SHALL NOT BE LESS THAN

SITE CLASS = D	
Fa = 1.2	
Ss = 1.82	
S _{DS} = 1.46	
Ip = 1.00	
Rp = 2.5	ASCE 7-16 Table 13.5-1
ap = 1	ASCE 7-16 Table 13.5-1

Wp = 4640 LB

$$0.7Fp = 0.7 \times 0.438 \times Wp = 0.31 \times 4640 \text{ LB} = 1,423 \text{ LB}$$

OVERTURNING ANALYSIS:

CABINET HEIGHT, Ht = 70.0 IN
ANCHORS SPACING, D = 25.0 IN

$$Mot = Vtotal \times (1/2 \text{ Ht}) = 1423 \text{ LB} \times 70 \text{ IN} \times 1/2 = 49,792 \text{ IN-LB}$$

$$Mst = Wp \times D/2 = 4640 \text{ LB} \times 25 \text{ IN}/2 = 58,000 \text{ IN-LB}$$

$$Puplift = (Mot - 0.6 \times Mst)/D = (49792 \text{ IN-LB} - 0.6 \times 58000 \text{ IN-LB})/25 \text{ IN} = 600 \text{ LB} \leq \text{UPLIFT}$$

ANCHORS
ALLOWABLE CAPACITY PER ICC REPORT AND ACI 318-19 CHAPTER 17
PULLOUT : 1170 LB T_{allowable, ASD}
SHEAR : 2390 LB V_{allowable, ASD}

$$COMBINED STRESS = (600 \text{ LB}/2340 \text{ LB}) + (1423 \text{ LB}/9560 \text{ LB}) = 0.41 < 1.2 \text{ OK}$$

USE 1/2"Ø x 3"MIN. EMBED. HILTI KB-TZ2 (ICC ESR-4266) OR APPROVED EQUAL
(4) PER CABINET

POWER COMPANY
9301 TAMPA AVE.
NORTHRIDGE, CA 91324

ADDRESS:

DESCRIPTION

BY

DATE

REV



EST. 1985
SEIZMIC
ENGINEERING, INC.
1130 E. Cypress St.
Covina, California
91724
Tel.(909)869-0989

DRAWN BY: M.V. / T.C.

DATE: 01/11/23

LAST REV. BY:

REV. DATE:

TYPE:

SCALE: N.T.S.

APRVD BY: SAL E. FATEEN



EXPIRES 12-31-2025

DESCRIPTION:

CABINET
DETAILS

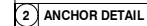
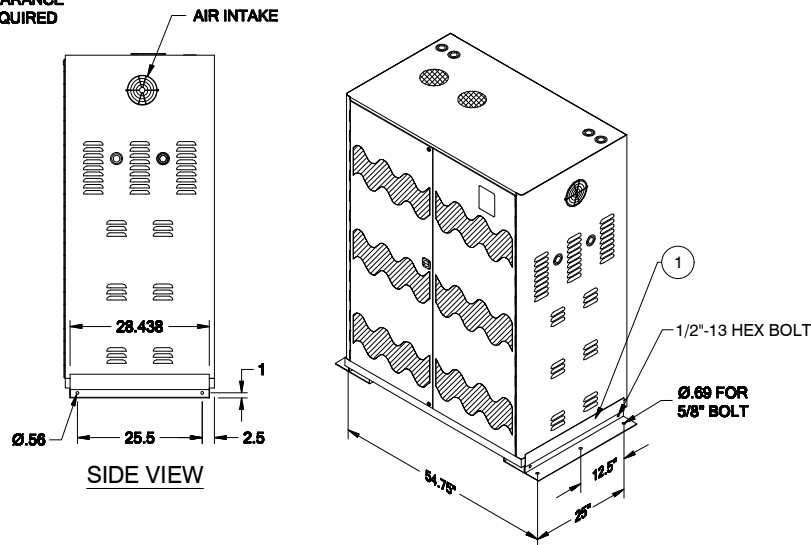
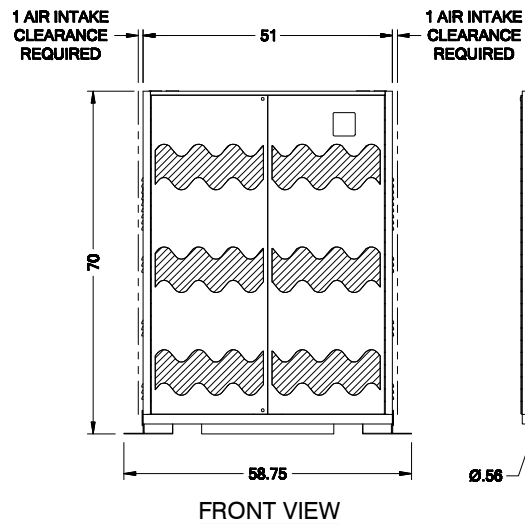
DRAWING NUMBER:

23-0067-B

CABINET ELEVATIONS

CALCULATIONS





1. DESIGNED PER THE 2021 IBC / 2022 CBC / 2023 IABC,
Fa = 1.2 & Ss = 1.82
2. STORAGE CAPACITY: **4,640** G MAX. WEIGHT.
3. ANCHORS: HILTI KWIK BOLT TZ 2,
ICC #ESR-4266 W/ IABC SUPPLEMENT
4. CONCRETE: 6" THICK x 2,800 PSI
5. SOIL BEARING PRESSURE: **500 PSF**, (MIN. REQ'D)
6. EVALUATION BASED ON NORTHRIDGE LOCATION
(ONE OF THE HIGHEST LA FAULT AREAS)
WITH THE FOLLOWING CALCULATION AS A TYPICAL EXAMPLE.
(ASSUMED GROUND FLOOR INSTALLATION)

CALCULATIONS