

△6 TABLE-1

Seismic Unit - CENTER OF GRAVITY AND WEIGHT DETAILS				
SKU	Center of Gravity in Inches [mm]			Weight lbs [kg]
	X-Distance	Y-Distance	Z-Distance	
GVSCBT2ST	11.3 [288]	28.6 [726]	15.5 [394]	1553 [706]
GVSCBT3ST	11.0 [280]	29.1 [739]	16.7 [424]	2216 [1007]

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
- △4. ONLY FRONT ACCESS REQUIRED FOR SERVICE. MINIMUM RECOMMENDED FRONT CLEARANCE IS 36.0 [914].
5. CABLE ENTRY IS FROM TOP OR BOTTOM OF THE UNIT.
- △6. FOR WEIGHT AND CENTER OF GRAVITY DETAILS REFERS TO TABLE-1. THIS INFORMATION PROVIDES APPROXIMATE CENTER OF GRAVITY CALCULATION.
7. OPERATING TEMPERATURE: 32°F TO 104°F [0°C TO 40°C]. RECOMMENDED TEMPERATURE AT 77°F[25°C].
8. DOOR OPENS 110°.
9. COLOR: RAL 9003, GLOSS LEVEL 85%.
- △10. ALL CABINETS SHIPPED WITH SIDE PANELS.
11. REMOVABLE COVER PLATE USED FOR ADJACENT CABLE CONNECTIONS TO UPS CABINET.

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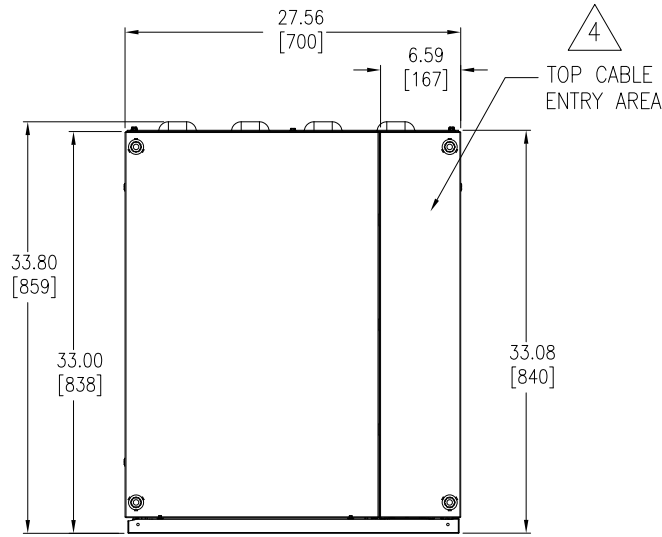
TITLE: GALAXY VS BATTERY CABINET UL TYPE-2&3, SEISMIC UNIT
 Input: 480Vdc, 3PH, 60Hz
 Output: 480Vdc, 3PH, 60Hz
 GENERAL ARRANGEMENT

DWG NO: GVSCBT2ST-3ST **REV.** 1

DRAWN BY: JAYAPRAKASH	19-FEB-21	THIRD
ENGINEER: SYED BASHA	26-FEB-21	ANGLE
APPROVED BY: SYED BASHA	26-FEB-21	PROJECTION

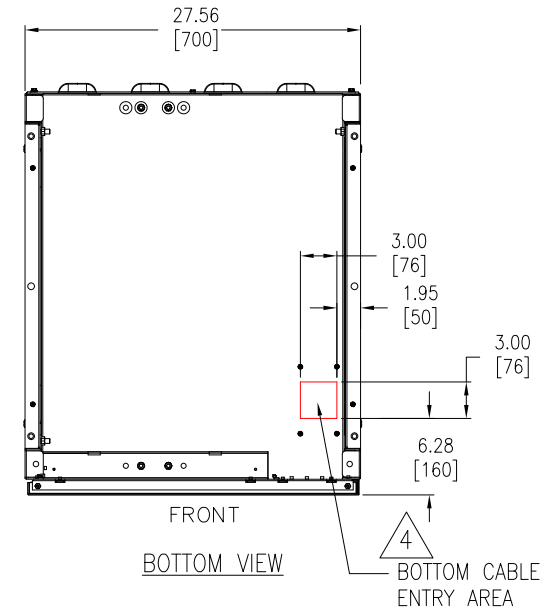
PROJECT: SUBMITTAL DRAWING **SHEET 1 OF 7**

TOP ENTRY CONDUIT LOCATION

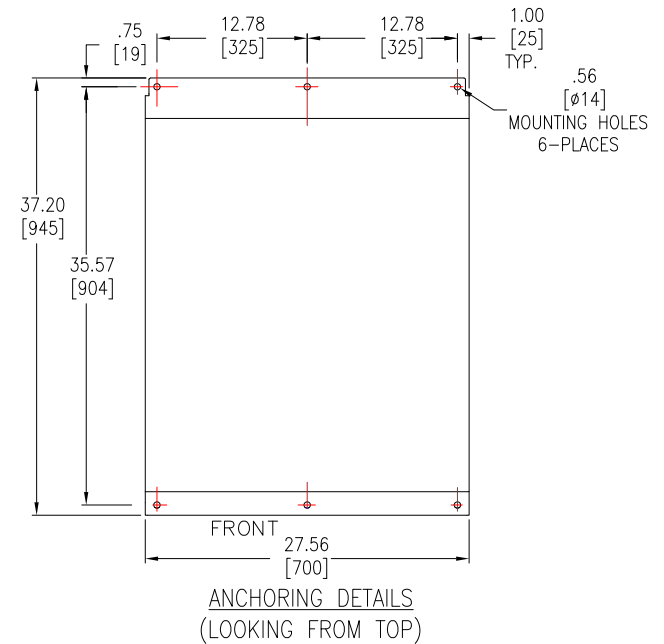
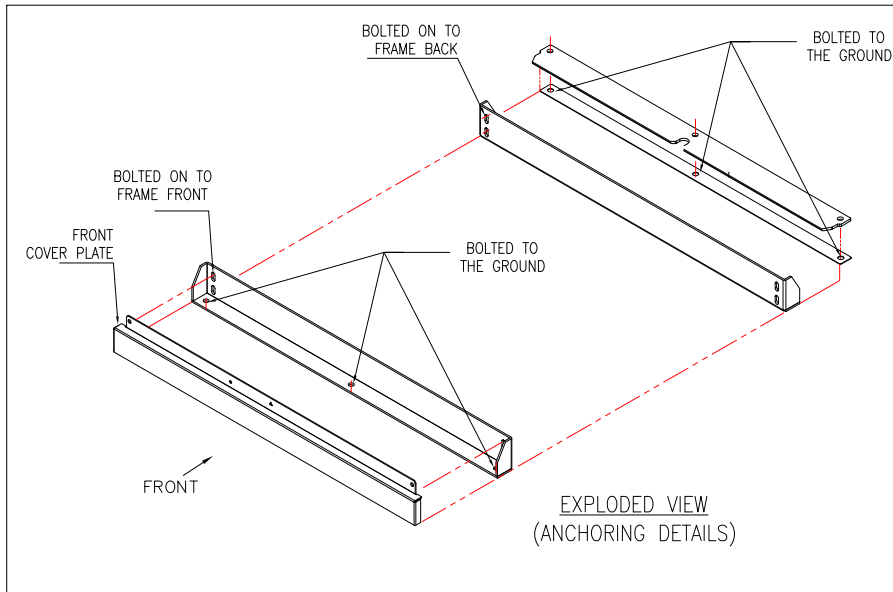


FRONT
TOP VIEW

BOTTOM ENTRY CONDUIT LOCATION



FRONT
BOTTOM VIEW
BOTTOM CABLE ENTRY AREA



NOTES:

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2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
- △4. DRILL/PUNCH HOLES IN PLATE AS PER REQUIREMENT.
REMOVE PLATE FROM CABINET BEFORE DRILLING/PUNCHING.

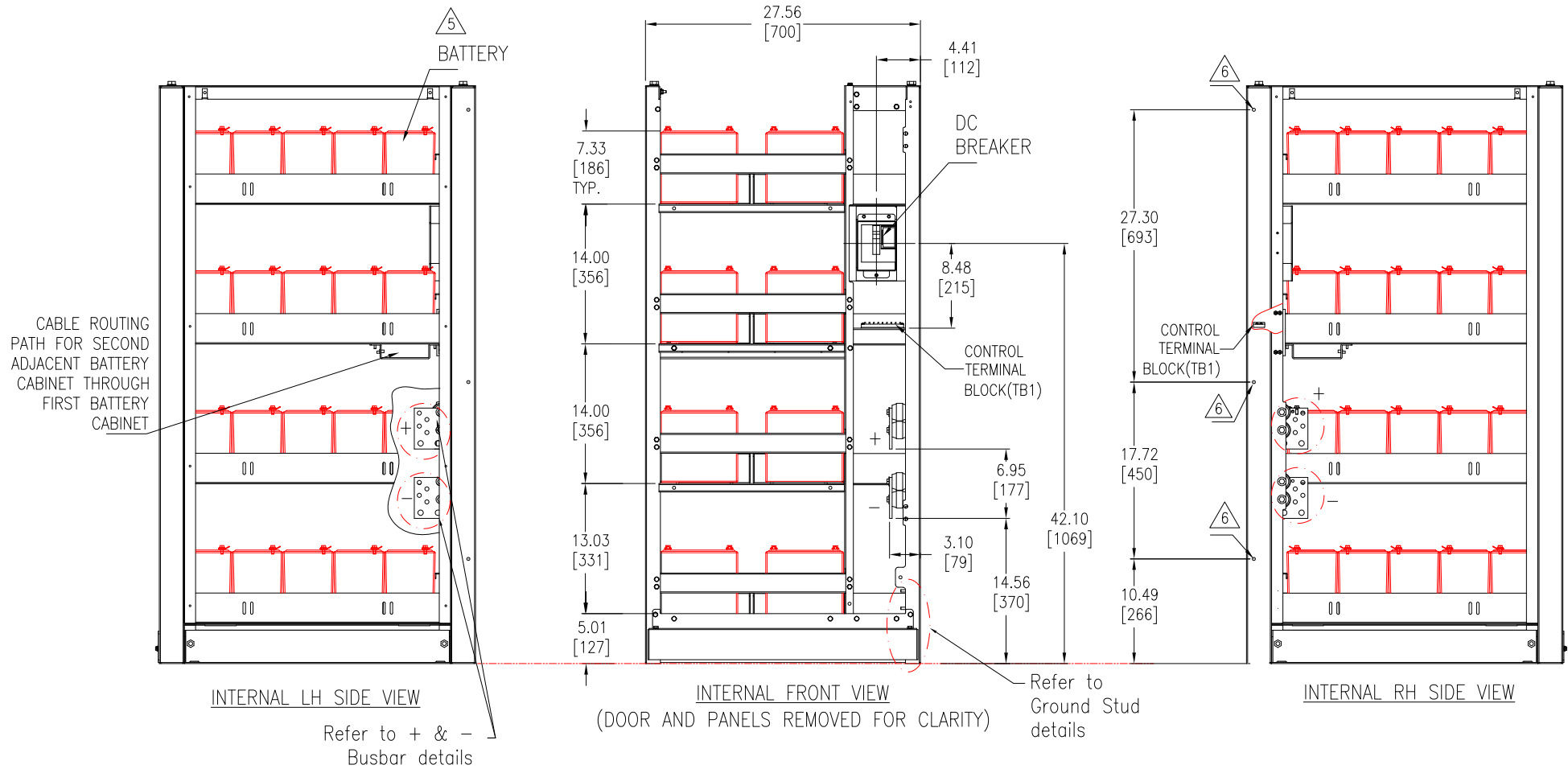
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TITLE: GALAXY VS BATTERY CABINET UL TYPE-2&3, SEISMIC UNIT
Input: 480Vdc, 3PH, 60Hz
Output: 480Vdc, 3PH, 60Hz
TOP & BOTTOM VIEW, ANCHORING DETAILS
PROJECT: SUBMITTAL DRAWING SHEET 2 OF 7

DWG NO: CVSCBT2ST-3ST
DRAWN BY: JAYAPRAKASH 19-FEB-21
ENGINEER: SYED BASHA 26-FEB-21
APPROVED BY: SYED BASHA 26-FEB-21

REV. 1
THIRD ANGLE PROJECTION

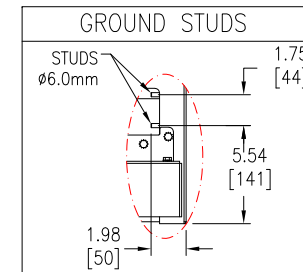
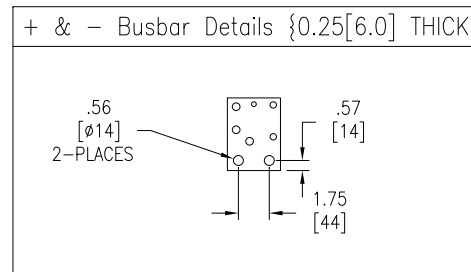


TORQUE SPECIFICATIONS

M6	5.0Nm (3.60lb-ft)
M8	17.5Nm (12.91lb-ft)
M10	30.0Nm (22.0lb-ft)
M12	50.0Nm (36.87lb-ft)

NOTES:

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- REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
- FOR BATTERY INTERFACE DETAILS REFER TO UPS INSTALLATION MANUAL.
- BATTERY ARRANGEMENT SHOWN ABOVE IS TYPICAL.
- FOR ADJACENT BATTERY CABINET FRAME CONNECTION TO UPS: REMOVE LEFT SIDE PANEL AND PLATE FROM UPS. REMOVE KNOCKOUTS (THREE PLACES) ON RIGHT FRONT SIDE OF BATTERY CABINET FRAME. PLACE BATTERY CABINET NEXT TO UPS. LINE UP HOLES AND SECURE WITH M6 HARDWARE INCLUDED WITH BATTERY CABINET.

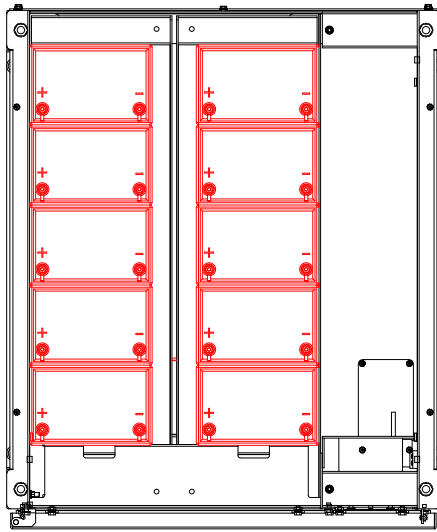


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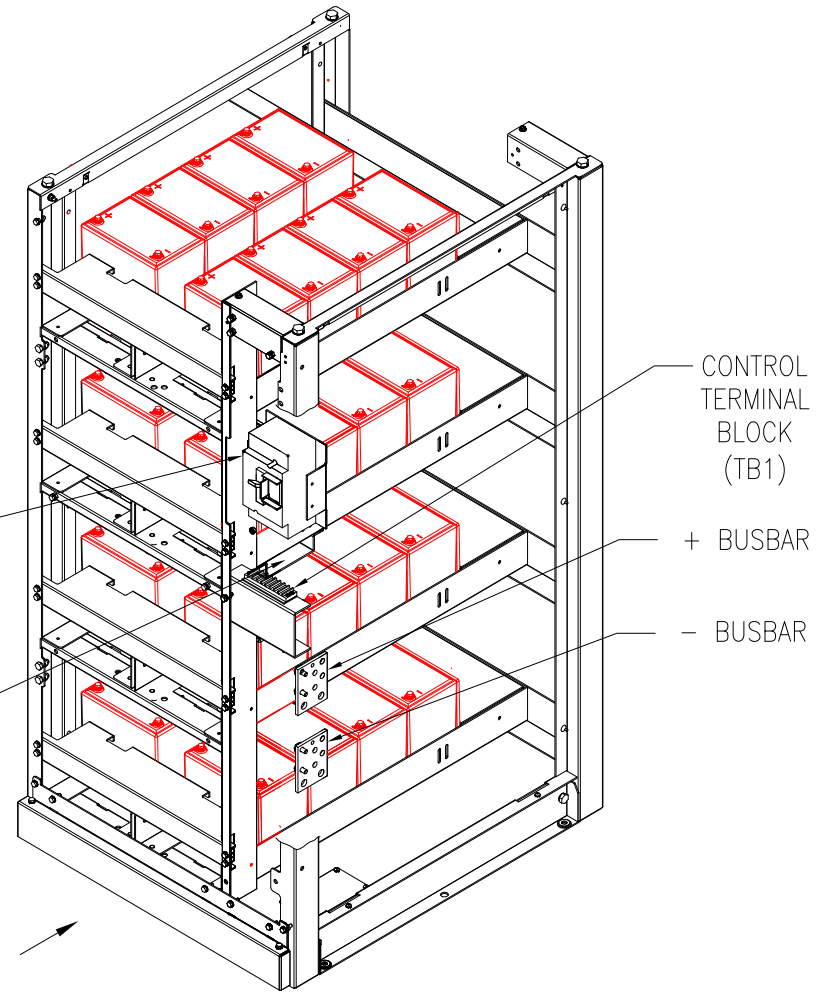


TITLE: GALAXY VS BATTERY CABINET UL TYPE-2&3, SEISMIC UNIT
 Input: 480Vdc, 3PH, 60Hz
 Output: 480Vac, 3PH, 60Hz
 INTERNAL VIEW
PROJECT: SUBMITTAL DRAWING **SHEET 3 OF 7**

DWG NO: GVSCBT2ST-3ST **REV.** 1
DRAWN BY: JAYAPRAKASH 28-MAR-19 **THIRD**
ENGINEER: IRENE KENNEDY/J SMITH 26-FEB-21 **ANGLE**
APPROVED BY: IRENE KENNEDY 26-FEB-21 **PROJECTION**



SECTIONAL VIEW A-A
TOP VIEW
(BATTERY SHOWN FOR REFERENCE)



DC BREAKER
150A

△4
TEMPERATURE
SENSOR
(ROUTE FROM
UPS CABINET FOR
ADJACENT BATTERY
CABINET)

CONTROL
TERMINAL
BLOCK
(TB1)

+ BUSBAR

- BUSBAR

FRONT

INTERNAL ISOMETRIC VIEW
(FRAME CUT AND SHOWN FOR CONVENIENCE)

NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
3. FOR CONNECTION DETAILS REFER TO UPS INSTALLATION MANUAL.
- △4. THE TEMPERATURE SENSOR IS SUPPLIED IN THE UPS CABINET.
FOR ADJACENT BATTERY CABINET, CONNECT IN THE UPS, ROUTE AND MOUNT SENSOR WHERE SHOWN IN THE BATTERY CABINET.
FOR REMOTE BATTERY CABINET, CONNECT TO TERMINAL BLOCK IN BATTERY CABINET. CONNECTION FROM BATTERY TO UPS NOT PROVIDED.
REFER TO SHEET-6 FOR CONNECTION DETAILS.
5. REMOVABLE PAD-LOCK PROVIDED FOR DC BREAKER.

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Schneider
Electric

TITLE: GALAXY VS
BATTERY CABINET UL TYPE-2&3, SEISMIC UNIT
Input: 480Vdc, 3PH, 60Hz
Output: 480Vdc, 3PH, 60Hz
INTERNAL DETAILS

PROJECT: SUBMITTAL DRAWING SHEET 4 OF 7

DWG NO: GVSCBT2ST-3ST REV. 0

DRAWN BY: K.NAGENDRA 10-JAN-19 THIRD

ENGINEER: IRENE KENNEDY/J SMITH 26-FEB-21 ANGLE

APPROVED BY: IRENE KENNEDY 26-FEB-21 PROJECTION

BATTERY RUNTIMES (minutes) at Full Load (calculated)				Classic Battery Cabinets											
				1x GVSCBT2ST			1x GVSCBT3ST			2x GVSCBT2ST			2x GVSCBT3ST		
				28" / 700mm Wide			28" / 700mm Wide			2x 28" / 700mm Wide			2x 28" / 700mm Wide		
				40 Batteries			40 Batteries			40 Batteries			40 Batteries		
			UPS SKU	PF 0.8	PF 0.9	PF 1	PF 0.8	PF 0.9	PF 1	PF 0.8	PF 0.9	PF 1	PF 0.8	PF 0.9	PF 1
GALAXY VS (1 PM)	480V	20kW	GVSUPS20KGS	34.5	30.0	26.0	57.0	49.5	43.5	83.0	72.0	63.0	125.0	110.0	99.0
		30kW	GVSUPS30KGS	20.5	17.5	15.0	35.0	30.5	27.0	50.5	43.5	38.0	80.5	70.0	62.0
		40kW	GVSUPS40KGS	13.5	11.5	10.0	24.5	21.5	18.5	35.0	30.0	26.0	57.0	50.0	44.0
		50kW	GVSUPS50KGS	10.0	8.5	7.2	18.5	16.0	14.0	26.0	22.5	19.5	44.0	38.0	33.5
GALAXY VS (2 PM)	480V	60kW	GVSUPS60KGS	7.7	6.4	5.3	14.5	12.5	11.0	20.5	17.5	15.0	35.5	30.5	27.0
		80kW	GVSUPS80KGS	N/A	N/A	N/A	N/A	N/A	N/A	13.5*	11.5*	10.0*	25.0*	21.5*	18.5*
		100kW	GVSUPS100KGS	N/A	N/A	N/A	N/A	N/A	N/A	10.0*	8.5*	7.1*	18.5*	16.0*	14.0*
GALAXY VS (1 PM)	208V	10kW	GVSUPS10KFS	82.0	71.0	62.5	125.0	110.0	98.0	190.0	165.0	145.0	275.0	245.0	215.0
		15kW	GVSUPS15KFS	49.5	43.0	37.5	79.0	69.5	61.0	115.0	100.0	90.0	175.0	155.0	135.0
		20kW	GVSUPS20KFS	34.5	29.5	25.5	56.5	49.5	43.5	82.2	71.5	63.0	125.0	110.0	98.5
		25kW	GVSUPS25KFS	25.5	22.0	19.0	43.5	37.5	33.0	63.0	54.0	47.0	98.5	85.5	75.5
GALAXY VS (2 PM)	208V	30kW	GVSUPS30KFS	20.0	17.0	15.0	35.0	30.0	26.5	50.0	42.5	37.5	79.5	69.0	61.0
		40kW	GVSUPS40KFS	13.5	11.5	10.0	24.5	21.0	18.5	34.5	29.5	25.5	56.5	49.0	43.5
		50kW	GVSUPS50KFS	10.0	8.3	7.1	18.5	15.5	13.5	25.5	22.0	19.0	43.5	37.5	33.0

* TWO CABINETS MUST BE PRESENT TO SUPPORT LOADS ABOVE 60kW

EMERGENCY LIGHTING AND POWER SYSTEM PER UL 924						
UPS			Battery Cabinet			Runtime
Voltage	Rated Output kW (kVA)	UPS SKU	Battery SKU	Battery Model	Number of battery cabinets	Minutes
480V	20	GVSUPS20KGS	GVSCBT3ST	EnerSys 12HX205	2	90
208V	10	GVSUPS10KFS	GVSCBT3ST	EnerSys 12HX205	1	90
	20	GVSUPS20KFS	GVSCBT3ST	EnerSys 12HX205	2	90

CANADIAN EMERGENCY LIGHTING AND POWER SYSTEM PER CSA 22.2 NO. 141-15						
UPS			Battery Cabinet			Runtime
Voltage	Rated Output kW (kVA)	UPS SKU	Battery SKU	Battery Model	Number of battery cabinets	Minutes
480V	20	GVSUPS20KGS	GVSCBT3ST	EnerSys 12HX205	1	30
208V	15	GVSUPS15KFS	GVSCBT2ST	EnerSys 12HX135	1	30
	20	GVSUPS20KFS	GVSCBT3ST	EnerSys 12HX205	1	30

NOTES:

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3. REFER TO BATTERY INSTALLATION MANUAL FOR CABLING DETAILS.

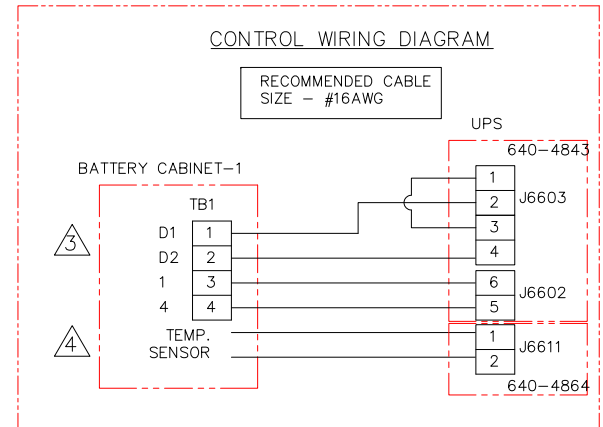
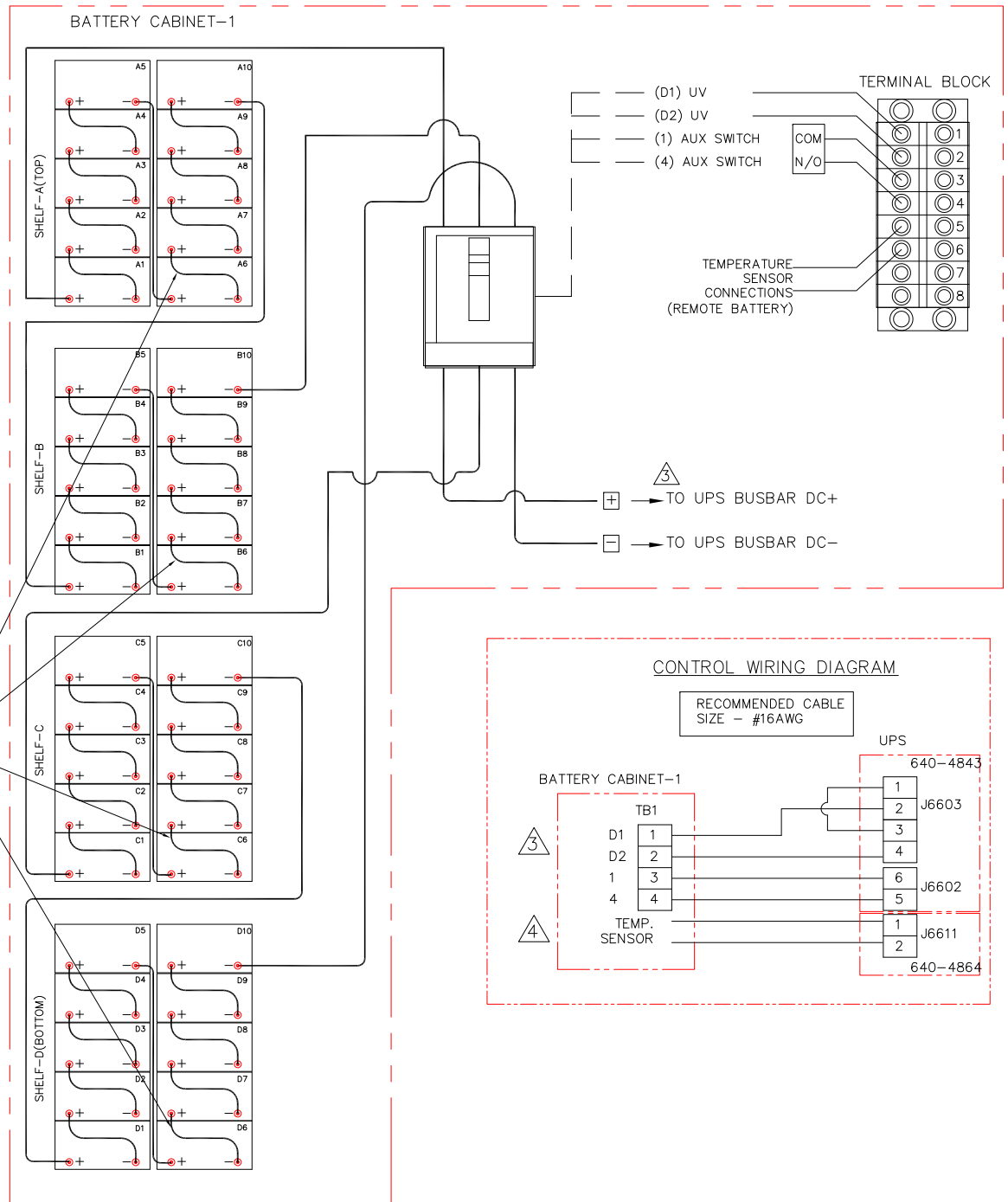
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TITLE: GALAXY VS BATTERY CABINET UL TYPE-2&3, SEISMIC UNIT
 Input: 480Vdc, 3PH, 60Hz
 Output: 480Vdc, 3PH, 60Hz
 RUNTIME DATA & SPECIFICATION
 PROJECT: SUBMITTAL DRAWING SHEET 5 OF 7

DWG NO:	GVSCBT2ST-3ST	REV.	2
DRAWN BY:	JAYAPRAKASH	19-FEB-21	ANGLE
ENGINEER:	SYED BASHA	26-FEB-21	PROJECTION
APPROVED BY:	SYED BASHA	26-FEB-21	N.A

TYPICAL CABLING DIAGRAM (ONE CABINET)



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- △ 3. POWER AND CONTROL CABLES ARE PROVIDED. FOR USE ONLY WITH ADJACENT BATTERY CABINET INSTALLATION ON LEFT SIDE OF UPS CABINET.
- △ 4. TEMPERATURE SENSOR OM-1160 IS SUPPLIED IN THE UPS CABINET.
- △ 5. STRING DISCONNECT CABLES ARE REMOVED FROM EACH SHELF PRIOR TO SHIPMENT. RE-CONNECT PRIOR TO CABINET INSTALLATION.

TORQUE CABLES TO BATTERY MANUFACTURER'S SPECIFICATION.

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TITLE: GALAXY VS BATTERY CABINET UL TYPE-2&3, SEISMIC UNIT
 Input: 480Vdc, 3PH, 60Hz
 Output: 480Vdc, 3PH, 60Hz
 CABLING DETAILS-1

PROJECT: SUBMITTAL DRAWING SHEET 6 OF 7

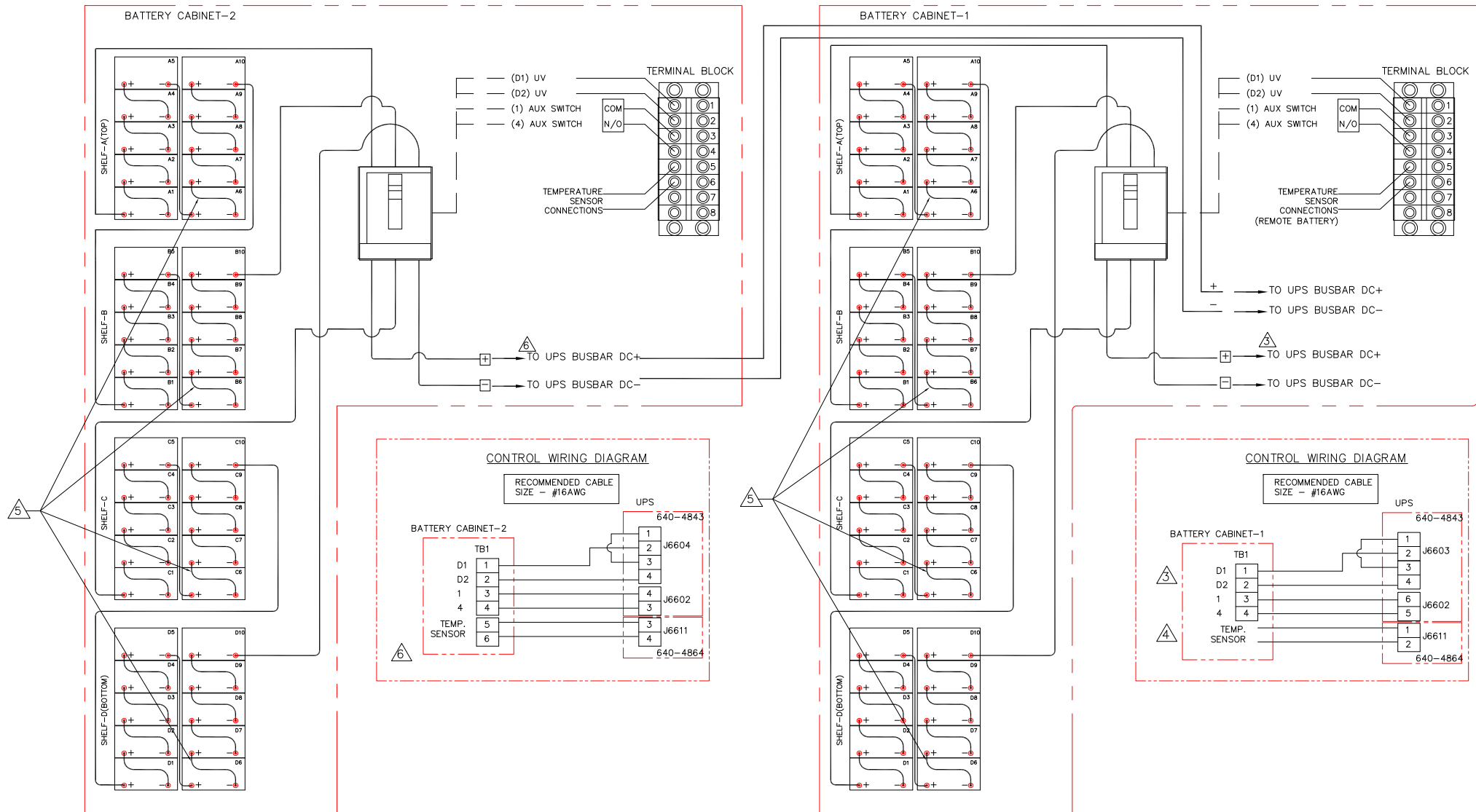
DWG NO: GVSCBT2ST-3ST REV. 2

DRAWN BY: K.NAGENDRA 30-MAY-19 THIRD

ENGINEER: IRENE KENNEDY/J SMITH 26-FEB-21 ANGLE

APPROVED BY: IRENE KENNEDY 26-FEB-21 PROJECTION

TYPICAL CABLING DIAGRAM (TWO CABINETS)



NOTES:

1. INSTALLATION SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES.
2. REFER TO PRODUCT DOCUMENTATION FOR ADDITIONAL DETAILS PRIOR TO INSTALLATION AND SITE PREPARATION WORK.
- △ 3. POWER AND CONTROL CABLES ARE PROVIDED. FOR USE ONLY WITH ADJACENT BATTERY CABINET INSTALLATION ON LEFT SIDE OF UPS CABINET.
- △ 4. TEMPERATURE SENSOR 0M-1160 IS SUPPLIED IN THE UPS CABINET.
- △ 5. STRING DISCONNECT CABLES ARE REMOVED FROM EACH SHELF PRIOR TO SHIPMENT. RE-CONNECT PRIOR TO CABINET INSTALLATION. TORQUE CABLES TO BATTERY MANUFACTURER'S SPECIFICATION.
- △ 6. ADJACENT BATTERY CABINET-2 INSTALLATION REQUIRES OPTIONAL CABLE KIT "GVSOPT011" FOR CONNECTION TO UPS. DISCARD PRE-INSTALLED POWER AND COMMUNICATION CABLES. ADDITIONAL TEMPERATURE SENSOR OJ-0M-1160 REQUIRED.
7. BATTERY CABINET-1 AND BATTERY CABINET-2 EACH CONNECT DIRECTLY TO THE UPS CABINET.
NO DAISY CHAIN CONNECTIONS BETWEEN BATTERY CABINETS.
8. REMOTE BATTERY CABLES PROVIDED BY OTHERS.

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TITLE: GALAXY VS BATTERY CABINET UL TYPE-2&3, SEISMIC UNIT
 Input: 480Vdc, 3PH, 60Hz
 Output: 480Vdc, 3PH, 60Hz
 CABLING DETAILS-2
 PROJECT: SUBMITTAL DRAWING SHEET 7 OF 7

DWG NO:	GVSCBT2ST-3ST	REV.	2
DRAWN BY:	K.NAGENDRA	30-MAY-19	THIRD
ENGINEER:	IRENE KENNEDY/J SMITH	26-FEB-21	ANGLE
APPROVED BY:	IRENE KENNEDY	26-FEB-21	PROJECTION