

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	
GVSCBT6ST	19.56 [497]	28.94 [735]	17.04 [433]	3828 [1736]
GVSCBT7ST	19.56 [497]	28.94 [735]	17.04 [433]	

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 CENTER OF GRAVITY AND WEIGHT DETAILS REFER TO TABLE-1.
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. FOR ADJACENT BATTERY CABINET. INSTALL ON THE LEFT SIDE OF THE UPS CABINET.

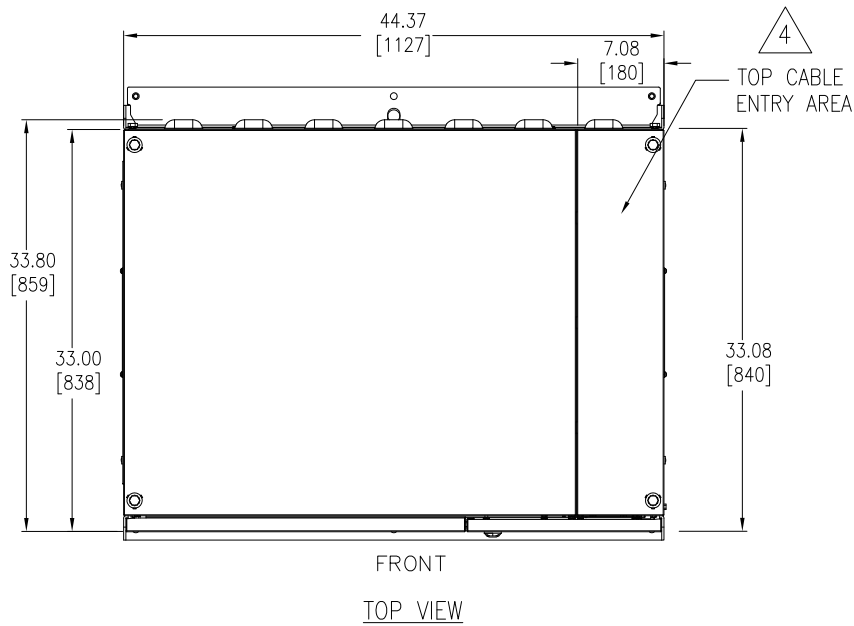
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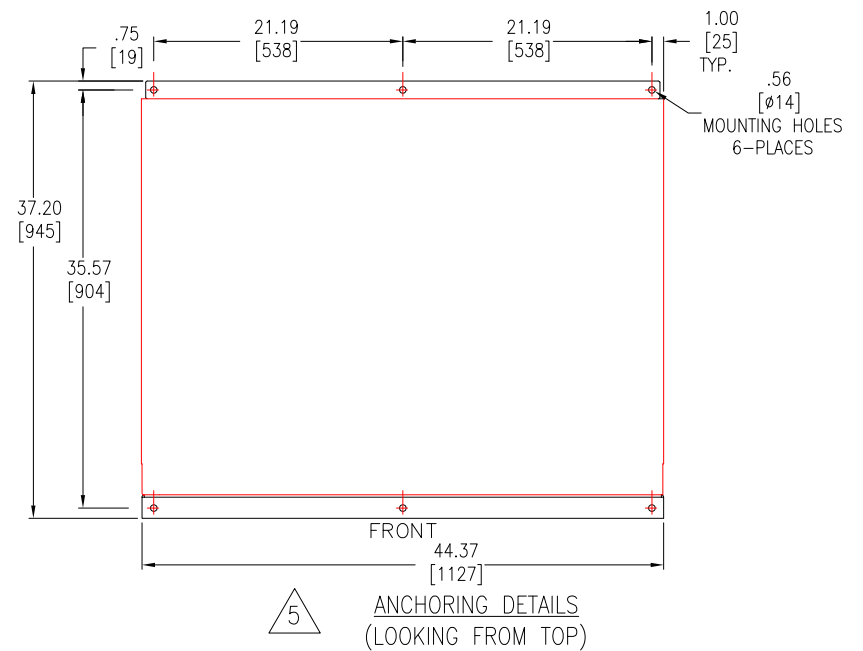
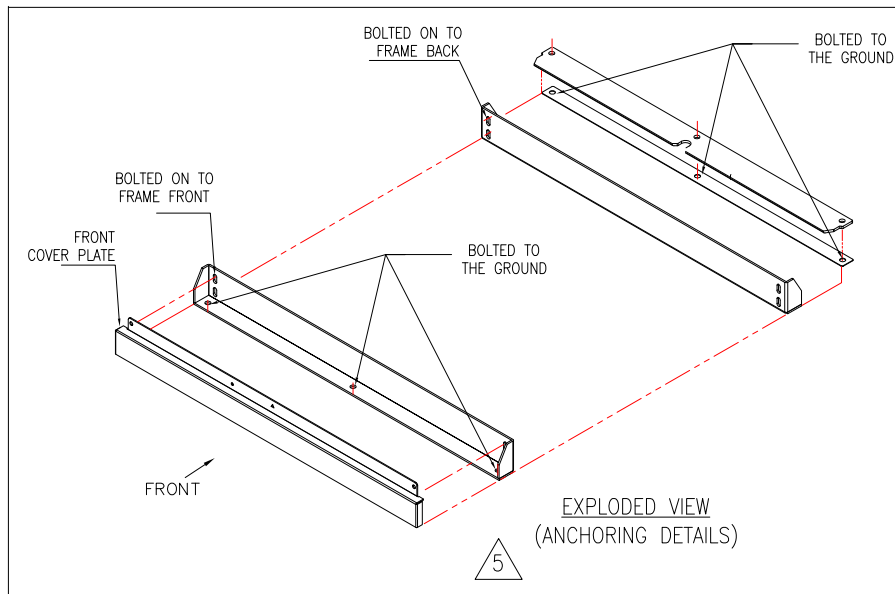
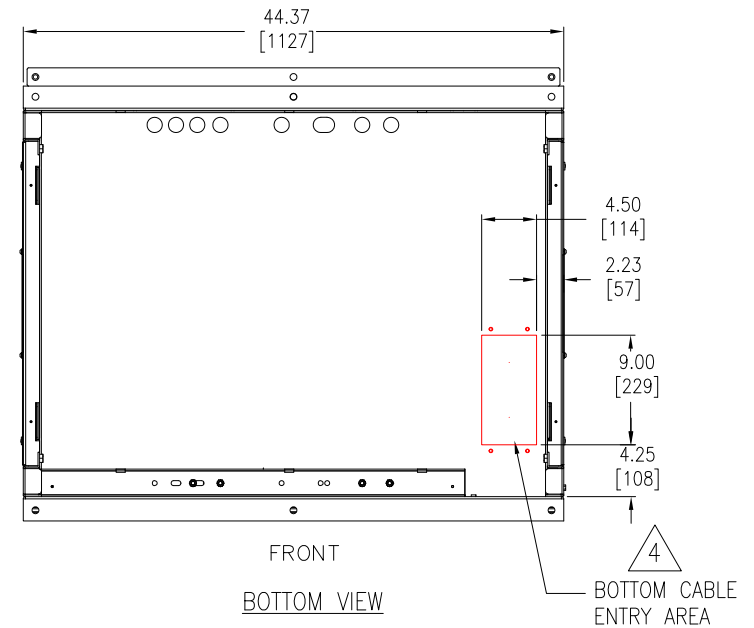
TITLE: GALAXY VS BATTERY CABINET UL TYPE-6ST&7ST, 40 BATTERIES  
 Input: 480Vdc, 3PH, 60Hz  
 Output: 480Vdc, 3PH, 60Hz  
 GENERAL ARRANGEMENT

DWG NO:	GVSCBT6ST-7ST	REV.	0
DRAWN BY:	K.NAGENDRA	13-AUG-19	THIRD
ENGINEER:	PRASANNA.T	05-NOV-19	ANGLE
APPROVED BY:	PRASANNA.T	05-NOV-19	PROJECTION

### TOP ENTRY CONDUIT LOCATION



### BOTTOM ENTRY CONDUIT LOCATION



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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.
- △5. APPLIES TO SKU'S GVSCBT2ST AND GVSCBT3ST ONLY.

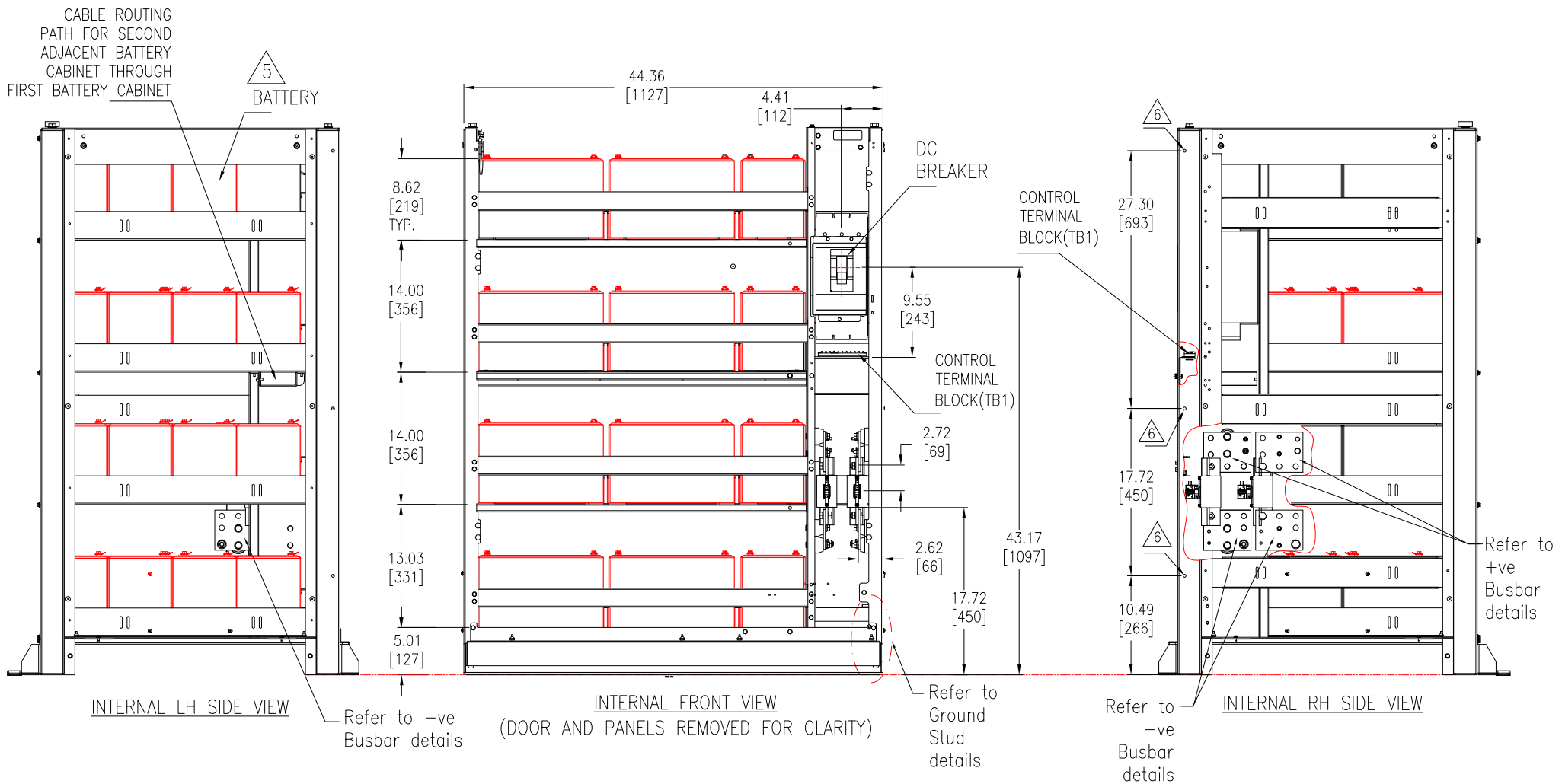
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**TITLE:** GALAXY VS BATTERY CABINET UL TYPE-6ST&7ST, 40 BATTERIES  
 Input: 480Vdc, 3PH, 60Hz  
 Output: 480Vdc, 3PH, 60Hz  
**TOP & BOTTOM VIEW, ANCHORING DETAILS**  
**PROJECT:** DRAWINGS **SHEET 2 OF 13**

**DWG NO:** GVSCBT6ST-7ST  
**ENGINEER:** PRASANNA.T  
**APPROVED BY:** PRASANNA.T  
**13-AUG-19**  
**05-NOV-19**  
**05-NOV-19**

**REV.** 0  
**THIRD**  
**ANGLE**  
**PROJECTION**

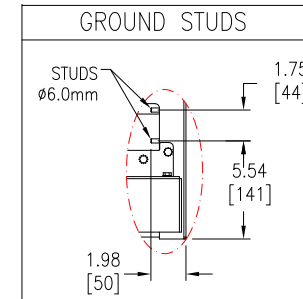
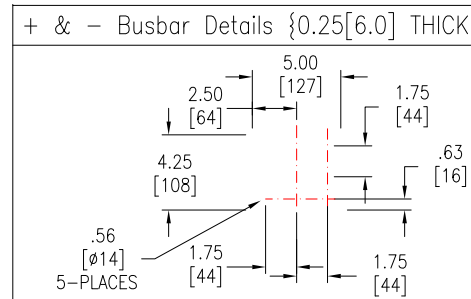


**TORQUE SPECIFICATIONS**

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

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3. ALL DIMENSIONS ARE IN INCHES [MILLIMETERS].
4. FOR BATTERY INTERFACE DETAILS REFER TO UPS INSTALLATION MANUAL.
- △ 5. BATTERY ARRANGEMENT SHOWN ABOVE IS TYPICAL.
- △ 6. 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-6ST&7ST, 40 BATTERIES  
 Input: 480Vdc, 3PH, 60Hz  
 Output: 480Vdc, 3PH, 60Hz  
 INTERNAL VIEW

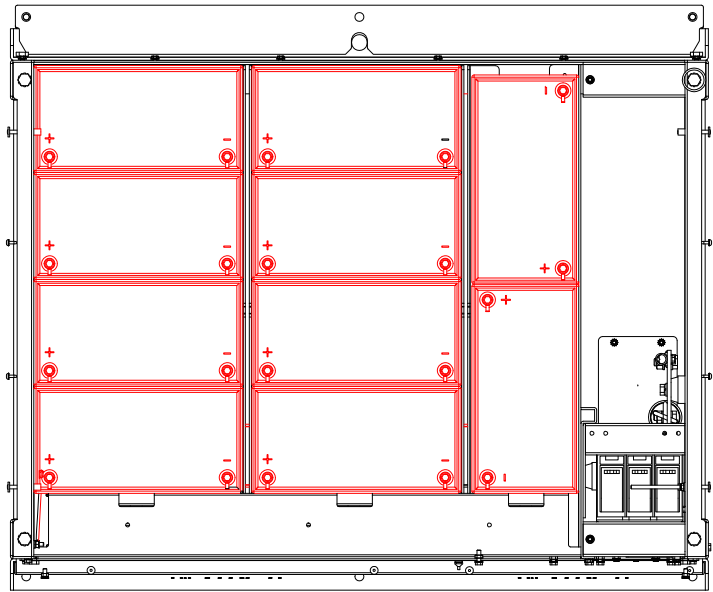
**PROJECT:** DRAWINGS **SHEET** 3 OF 13

**DWG NO:** GVSCBT6ST-7ST **REV.** 0

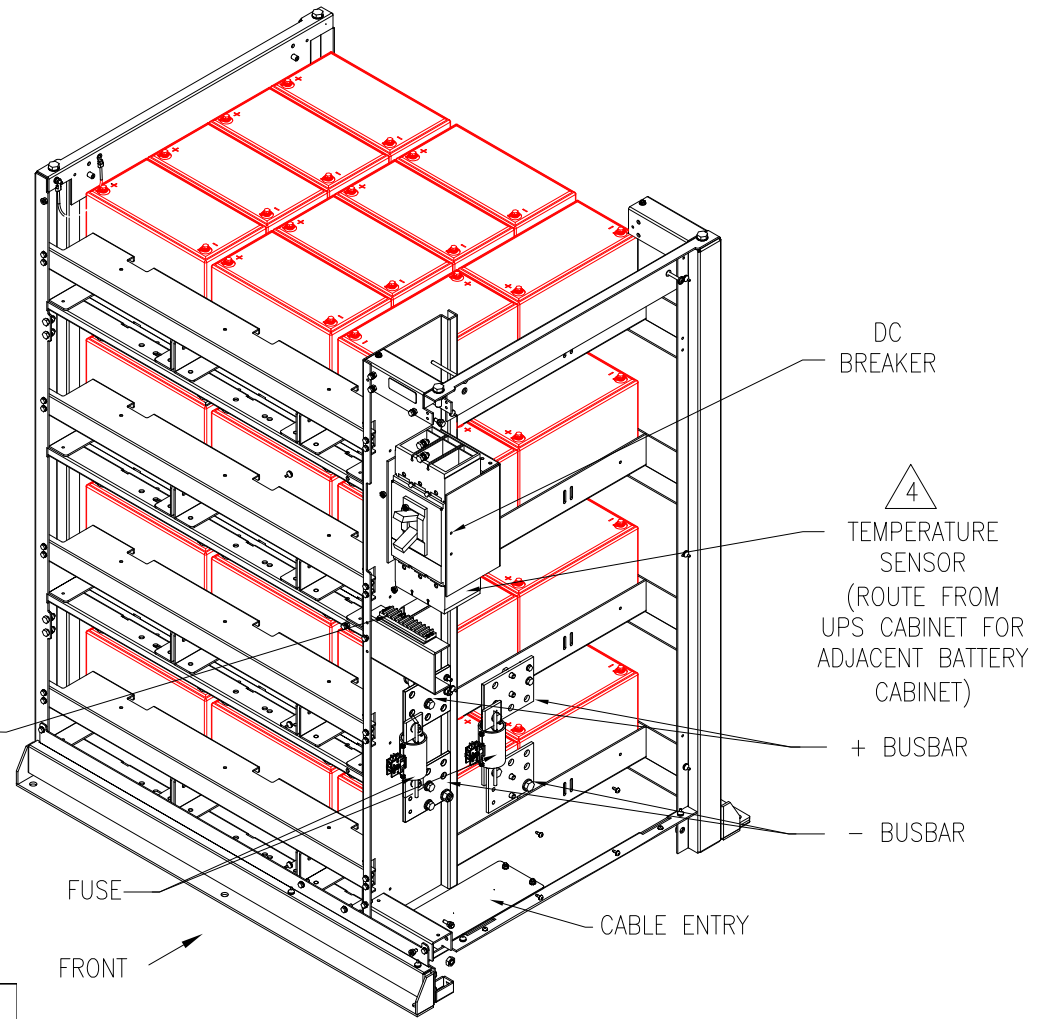
**DRAWN BY:** K NAGENDRA 13-AUG-19 **THIRD**

**ENGINEER:** PRASANNA 05-NOV-19 **ANGLE**

**APPROVED BY:** PRASANNA 05-NOV-19 **PROJECTION**



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



INTERNAL ISOMETRIC VIEW  
(FRAME CUT AND SHOWN FOR CONVENIENCE)

SKU	DC BREAKER RATING	FUSE RATING	NUMBER OF BATTERIES
GVSCBT6ST	250A	300A	40
GVSCBT7ST	400A	400A	40

NOTES:

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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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TITLE: GALAXY VS BATTERY CABINET UL TYPE-6ST&7ST, 40 BATTERIES  
Input: 480Vdc, 3PH, 60Hz  
Output: 480Vdc, 3PH, 60Hz  
INTERNAL DETAILS  
PROJECT: DRAWINGS SHEET 4 OF 13

DWG NO:	GVSCBT6ST-7ST	REV.	0
DRAWN BY:	K.NAGENDRA	13-AUG-19	THIRD
ENGINEER:	PRASANNA.T	05-NOV-19	ANGLE
APPROVED BY:	PRASANNA.T	05-NOV-19	PROJECTION

BATTERY RUNTIMES (minutes) at Full Load (calculated)				Classic Battery Cabinets																	
				1 x GVSCBT6ST			1 x GVSCBT7ST			2 x GVSCBT6ST			2 x GVSCBT7ST								
				44" / 1127mm Wide			44" / 1127mm Wide			2 x 44" / 1127mm Wide			2 x 44" / 1127mm Wide								
				40 Batteries			40 Batteries			40 Batteries			40 Batteries								
				----NA---			----NA----			Add GVSOPT028 Cable kit for the 2nd cabinet in a group			Add GVSOPT028 Cable kit for the 2nd cabinet in a group								
			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	137.0	118.0	104.0	N/A			309.0	270.0	240.0	N/A								
		30kW	GVSUPS30KGS	83.0	72.0	63.0				193.0	168.0	148.0									
		40kW	GVSUPS40KGS	58.0	50.0	43.0				137.0	119.0	104.0									
		50kW	GVSUPS50KGS	43.0	37.0	32.0				104.0	90.0	79.0									
GALAXY VS (2 PM)	480V	60kW	GVSUPS60KGS	34.0	29.0	25.0				83.0	72.0	63.0									
		80kW	GVSUPS80KGS	23.0	20.0	17.0				58.0	50.0	43.0									
		100kW	GVSUPS100KGS	17.0	14.0	12.0				43.0	37.0	32.0									
GALAXY VS (3 PM)	480V	120kW	GVSUPS120KGS	N/A						13.0	11.0	9.3				N/A			34.0	29.5	25.5
		150kW	GVSUPS150KGS	N/A						9.0	7.5	6.4				N/A			25.5	21.5	18.5
GALAXY VS (1 PM)	208V	10kW	GVSUPS10KFS	311.0	270.0	240.0				N/A						667.0	583.0	523.0	N/A		
		15kW	GVSUPS15KFS	193.0	167.0	149.0	428.0	374.0	334.0												
		20kW	GVSUPS20KFS	137.0	118.0	104.0	309.0	270.0	240.0												
		25kW	GVSUPS25KFS	104.0	90.0	79.0	240.0	209.0	184.0												
GALAXY VS (2 PM)	208V	30kW	GVSUPS30KFS	83.0	72.0	63.0	193.0	168.0	148.0												
		40kW	GVSUPS40KFS	58.0	50.0	43.0	137.0	119.0	104.0												
		50kW	GVSUPS50KFS	43.0	37.0	32.0	104.0	90.0	79.0												
GALAXY VS (3 PM)	208V	60kW	GVSUPS60KFS	N/A			34.0	29.0	25.5				N/A			83.0	71.5	56.0			
		75kW	GVSUPS75KFS	N/A			25.5	21.5	18.5				N/A			63.0	54.0	47.0			

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3. REFER TO BATTERY INSTALLATION MANUAL FOR CABLING DETAILS.

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TITLE: GALAXY VS  
BATTERY CABINET UL TYPE-6ST&7ST, 40 BATTERIES  
Input: 480Vdc, 3PH, 60Hz  
Output: 480Vdc, 3PH, 60Hz  
RUNTIME DATA-1 & SPECIFICATION

DWG NO: GVSCBT6ST-7ST REV. 1

DRAWN BY: K NAGENDRA 26-MAR-20 THIRD

ENGINEER: PRASANNA.T 26-MAR-20 ANGLE

PROJECT: DRAWINGS SHEET 5 OF 13

APPROVED BY: PRASANNA.T 26-MAR-20 PROJECTION

BATTERY RUNTIME (Minutes) at Full load (calculated)			Classic Battery Cabinets 3 strings, 3 cabinets			Classic Battery Cabinets 3 strings, 3 cabinets			Classic Battery Cabinets 4 strings, 4 cabinets			Classic Battery Cabinets 4 strings, 4 cabinets			Classic Battery Cabinets 5 strings, 5 cabinets			Classic Battery Cabinets 5 strings, 5 cabinets		
			Add GVSOPT028 Cable kit for the 2nd cabinet in a group			Add GVSOPT028 Cable kit for the 2nd cabinet in a group			Add GVSOPT028 Cable kit for the 3rd cabinet in a group			Add GVSOPT028 Cable kit for the 3rd cabinet in a group			Add GVSOPT028 Cable kit for the 3rd cabinet in a group			Add GVSOPT028 Cable kit for the 3rd cabinet in a group		
			3 x GVSCBT6ST			3 x GVSCBT7ST			4 x GVSCBT6ST			4 x GVSCBT7ST			5 x GVSCBT6ST			5 x GVSCBT7ST		
			44' / 1127mm Wide			44' / 1127mm Wide			44' / 1127mm Wide			44' / 1127mm Wide			44' / 1127mm Wide			44' / 1127mm Wide		
			3 x 40 x Enersys 12HX400			3 x 40 x Enersys 12HX400			4 x 40 x Enersys 12HX400			4 x 40 x Enersys 12HX400			5 x 40 x Enersys 12HX400			5 x 40 x Enersys 12HX400		
			PF.8	PF .9	PF1	PF.8	PF .9	PF1	PF.8	PF .9	PF1	PF.8	PF .9	PF1	PF.8	PF .9	PF1	PF.8	PF .9	PF1
480V	20kW	GVSUPS20KGS	485.0	426.0	381.0		663.0	583.0	523.0		841.0	742.0	666.0							
	30kW	GVSUPS30KGS	310.0	271.0	239.0		427.0	375.0	333.0		545.0	480.0	427.0							
	40kW	GVSUPS40KGS	222.0	193.0	170.0		310.0	271.0	239.0		399.0	349.0	310.0							
	50kW	GVSUPS50KGS	170.0	148.0	130.0		239.0	208.0	184.0		310.0	271.0	239.0							
480V	60kW	GVSUPS60KGS	137.0	119.0	104.0	193.0	168.0	148.0	251.0	218.0	193.0									
	80kW	GVSUPS80KGS	96.0	83.0	73.0	137.0	119.0	104.0	179.0	156.0	137.0									
	100kW	GVSUPS100KGS	73.0	63.0	55.0	104.0	90.0	79.0	137.0	119.0	104.0									
480V	120kW	GVSUPS120KGS				58.0	50.0	43.5	83.0	72.0	63.0	109.0	94.5	83.5						
	150kW	GVSUPS150KGS				43.5	37.5	32.5	63.0	54.5	47.0	83.0	72.0	63.0						
208V	10kW	GVSUPS10KFS	1026.0	900.0	809.0		1385.0	1217.0	1095.0		1741.0	1532.0	1379.0							
	15kW	GVSUPS15KFS	664.0	583.0	523.0		903.0	795.0	713.0		1141.0	1006.0	904.0							
	20kW	GVSUPS20KFS	485.0	426.0	381.0		663.0	583.0	523.0		841.0	742.0	666.0							
	25kW	GVSUPS25KFS	501.0	334.0	296.0		523.0	460.0	409.0		666.0	586.0	523.0							
208V	30kW	GVSUPS30KFS	310.0	271.0	239.0	427.0	375.0	333.0	545.0	480.0	427.0									
	40kW	GVSUPS40KFS	222.0	193.0	170.0	310.0	271.0	239.0	399.0	349.0	310.0									
	50kW	GVSUPS50KFS	170.0	148.0	130.0	239.0	208.0	184.0	310.0	271.0	239.0									
208V	60kW	GVSUPS60KFS				137.0	119.0	104.0	193.0	168.0	148.0	251.0	219.0	193.0						
	75kW	GVSUPS75KFS				104.0	90.0	79.0	148.0	128.0	113.0	193.0	168.0	148.0						

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	GVSCBT6ST	EnerSys 12HX400	1	90
	40	GVSUPS40KGS	GVSCBT6ST	EnerSys 12HX400	2	90
	50	GVSUPS50KGS	GVSCBT6ST	EnerSys 12HX400	3	90
	60	GVSUPS60KGS	GVSCBT6ST	EnerSys 12HX400	3	90
	80	GVSUPS80KGS	GVSCBT6ST	EnerSys 12HX400	4	90
	100	GVSUPS100KGS	GVSCBT6ST	EnerSys 12HX400	5	90
208V	20	GVSUPS20KFS	GVSCBT6ST	EnerSys 12HX400	1	90
	40	GVSUPS40KFS	GVSCBT6ST	EnerSys 12HX400	2	90
	50	GVSUPS50KFS	GVSCBT6ST	EnerSys 12HX400	3	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	50	GVSUPS50KGS	GVSCBT6ST	EnerSys 12HX400	1	30
	100	GVSUPS100KGS	GVSCBT6ST	EnerSys 12HX400	2	30
	30	GVSUPS30KGS	GVSCBT6ST	EnerSys 12HX400	1	60
	60	GVSUPS60KGS	GVSCBT6ST	EnerSys 12HX400	2	60
	80	GVSUPS80KGS	GVSCBT6ST	EnerSys 12HX400	3	60
	100	GVSUPS100KGS	GVSCBT6ST	EnerSys 12HX400	4	60
	40	GVSUPS40KGS	GVSCBT6ST	EnerSys 12HX400	3	120
	50	GVSUPS50KGS	GVSCBT6ST	EnerSys 12HX400	3	120
	60	GVSUPS60KGS	GVSCBT6ST	EnerSys 12HX400	4	120
	80	GVSUPS80KGS	GVSCBT6ST	EnerSys 12HX400	5	120
208V	50	GVSUPS50KFS	GVSCBT6ST	EnerSys 12HX400	1	30
	30	GVSUPS30KFS	GVSCBT6ST	EnerSys 12HX400	1	60
	15	GVSUPS15KFS	GVSCBT6ST	EnerSys 12HX400	1	120
	40	GVSUPS40KFS	GVSCBT6ST	EnerSys 12HX400	3	120
	50	GVSUPS50KFS	GVSCBT6ST	EnerSys 12HX400	3	120

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3. REFER TO BATTERY INSTALLATION MANUAL FOR CABLING DETAILS.

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TITLE: GALAXY VS BATTERY CABINET UL TYPE-6ST&7ST, 40 BATTERIES  
Input: 480Vdc, 3PH, 60Hz  
Output: 480Vdc, 3PH, 60Hz  
RUNTIME DATA-2

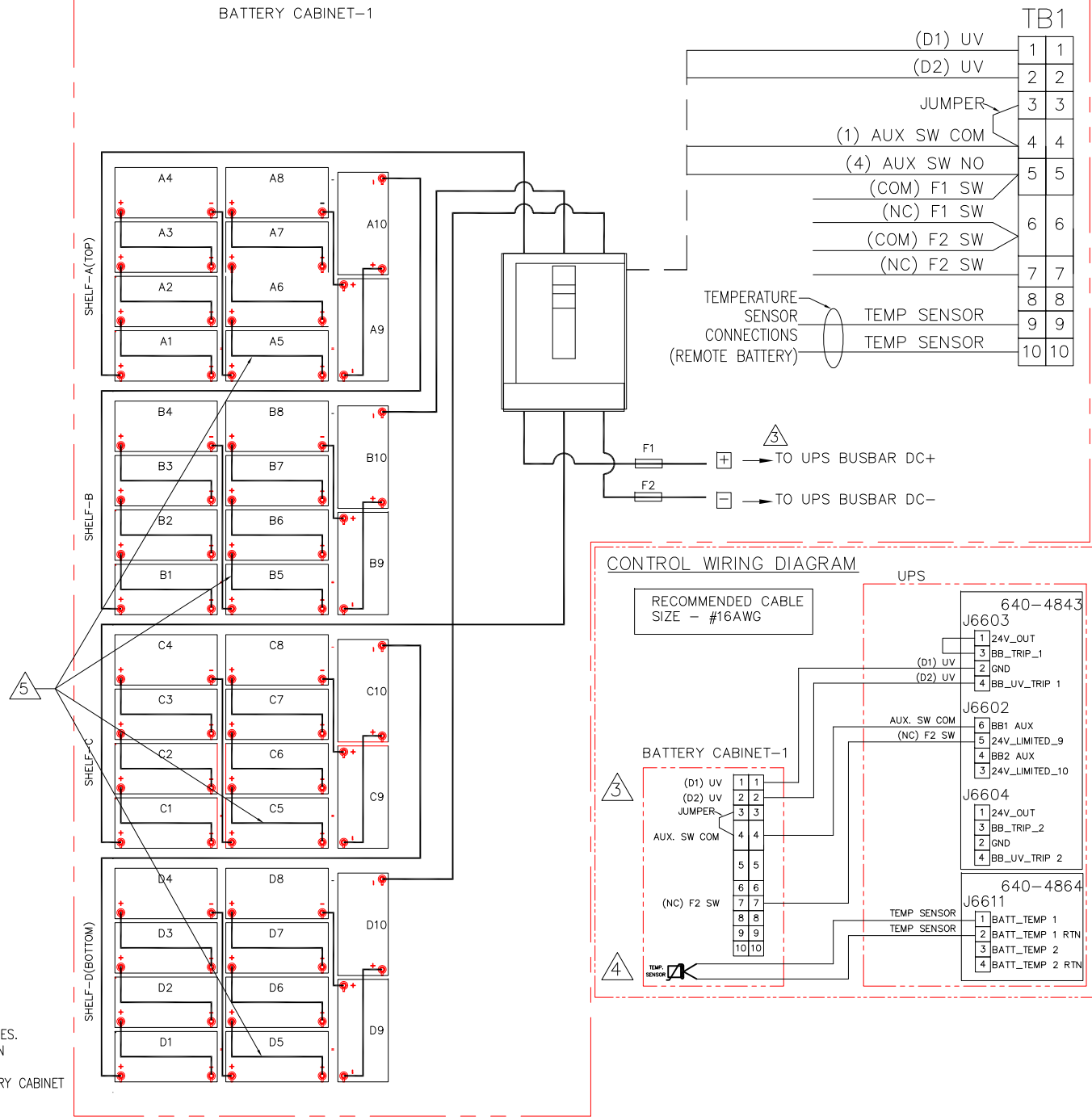
DWG NO: GVSCBT6ST-7ST REV. 1

DRAWN BY: K NAGENDRA 26-MAR-20 THIRD

ENGINEER: PRASANNA.T 26-MAR-20 ANGLE

PROJECT: DRAWINGS SHEET 6 OF 13 APPROVED BY: PRASANNA.T 26-MAR-20 PROJECTION

BATTERY CABINET-1



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-6ST&7ST, 40 BATTERIES  
Input: 480Vdc, 3PH, 60Hz  
Output: 480Vdc, 3PH, 60Hz  
CABLING DETAILS-1

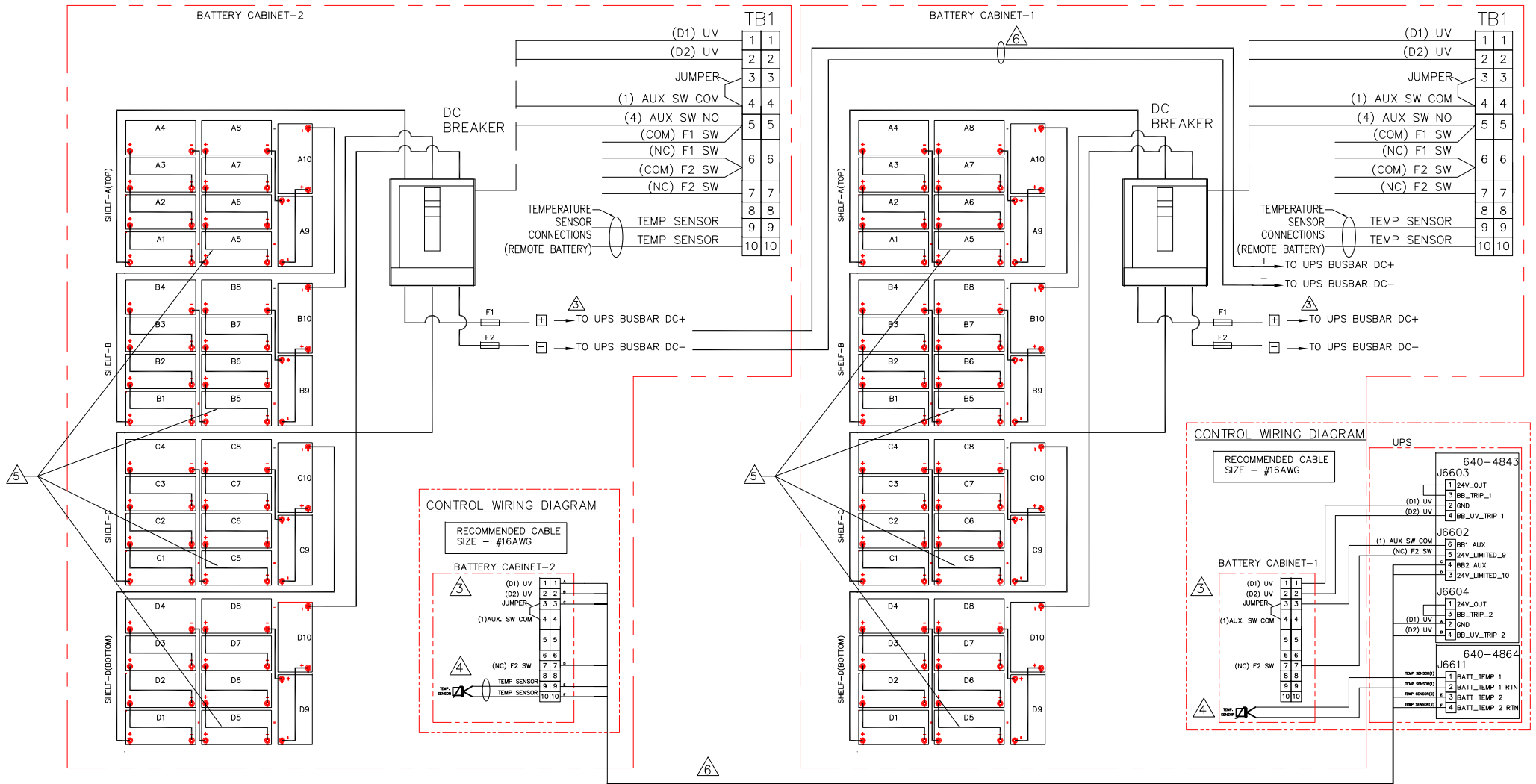
PROJECT: DRAWINGS SHEET 7 OF 13

DWG NO: GVSCBT6ST-7ST REV. 0

DRAWN BY: K.NAGENDRA 13-AUG-19 THIRD

ENGINEER: PRASANNA.T 05-NOV-19 ANGLE

APPROVED BY: PRASANNA.T 05-NOV-19 PROJECTION



**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 "GVSOPT028" 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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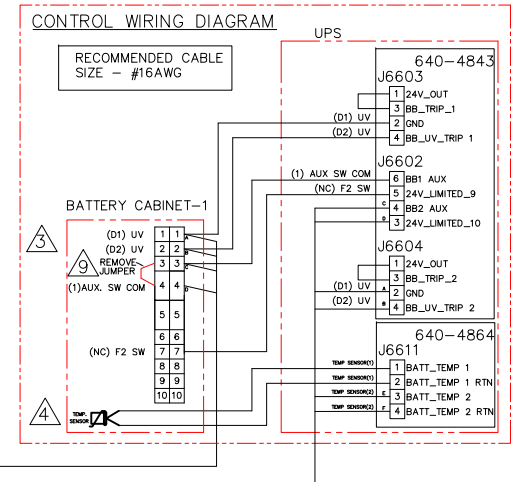
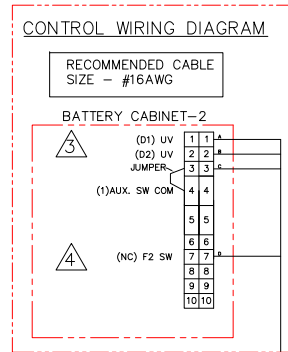
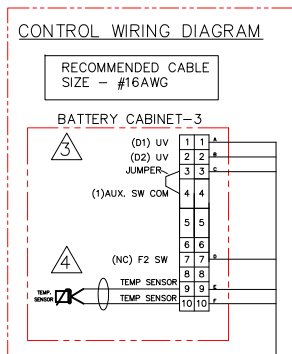
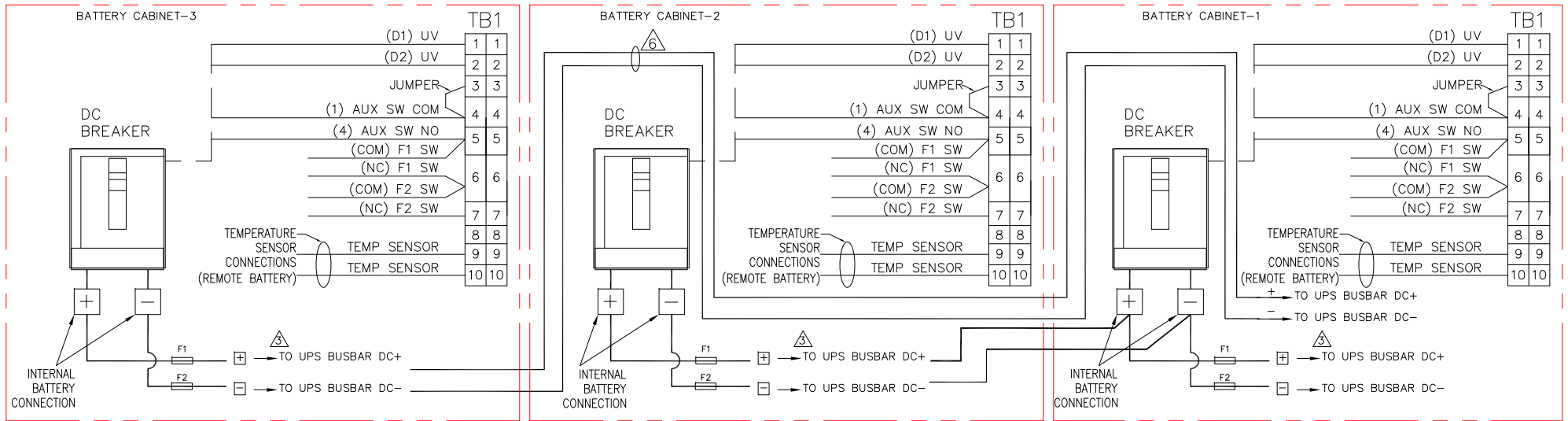


**TITLE:** GALAXY VS BATTERY CABINET UL TYPE-6ST&7ST, 40 BATTERIES  
 Input: 480Vdc, 3PH, 60Hz  
 Output: 480Vdc, 3PH, 60Hz  
 CABLING DETAILS-2

**PROJECT:** DRAWINGS **SHEET** 8 OF 13

**DWG NO:** GVSCBT6ST-7ST **REV.** 0  
**DRAWN BY:** K.NAGENDRA 13-AUG-19 **THIRD**  
**ENGINEER:** PRASANNA.T 05-NOV-19 **ANGLE**  
**APPROVED BY:** PRASANNA.T 05-NOV-19 **PROJECTION**





**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-3 INSTALLATION REQUIRES OPTIONAL CABLE KIT "GVSOPT028" 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-3 EACH CONNECT DIRECTLY TO THE UPS CABINET. NO DAISY CHAIN CONNECTIONS BETWEEN BATTERY CABINETS.
- 8. REMOTE BATTERY CABLES PROVIDED BY OTHERS.
- △ 9. REMOVE THIS JUMPER FOR THREE BATTERY CABINETS CONFIGURATION

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**TITLE:** GALAXY VS BATTERY CABINET UL TYPE-6ST&7ST, 40 BATTERIES  
 Input: 480Vdc, 3PH, 60Hz  
 Output: 480Vdc, 3PH, 60Hz  
 CABLING DETAILS-3

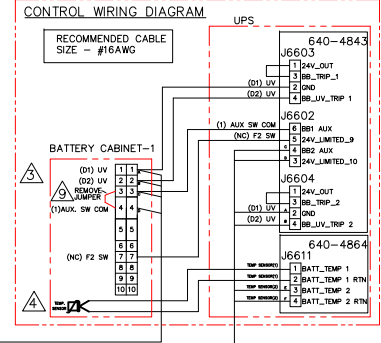
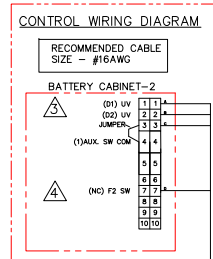
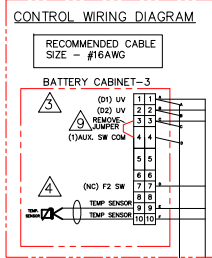
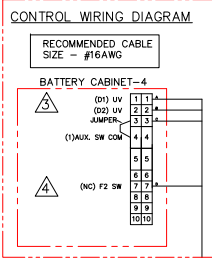
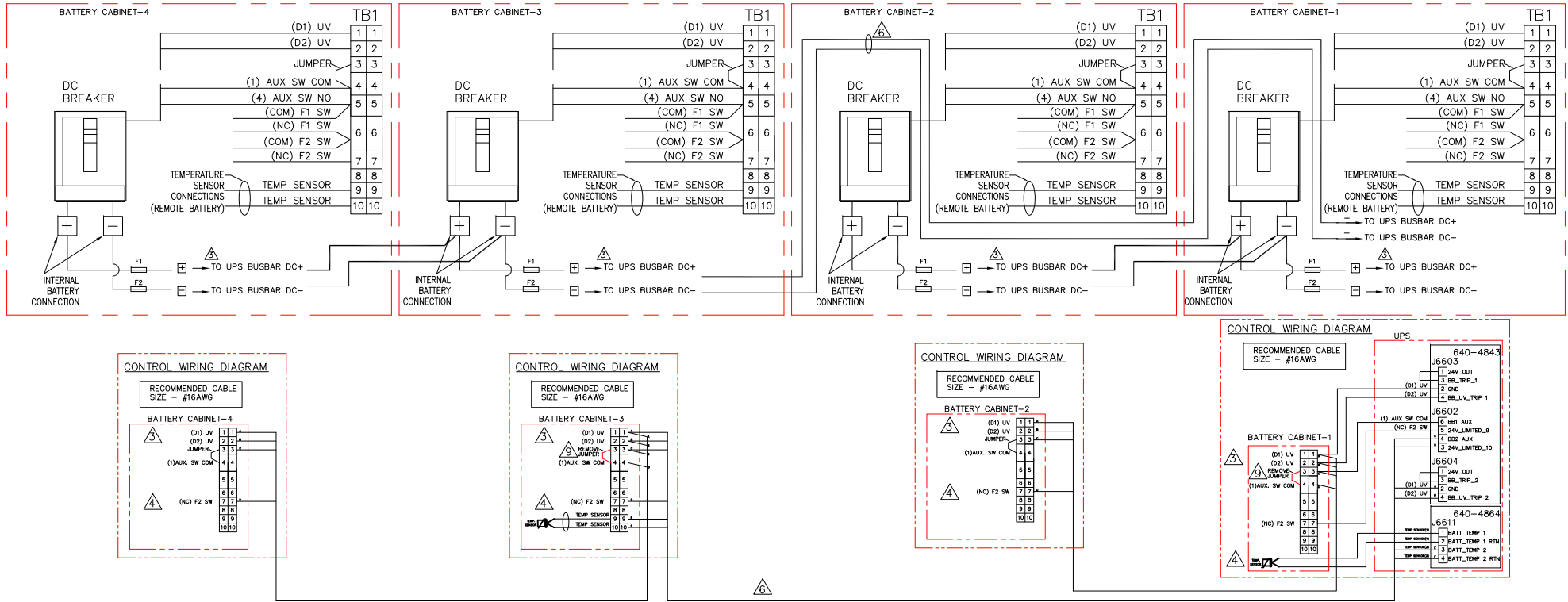
**PROJECT:** DRAWINGS **SHEET** 9 OF 13

**DWG NO:** GVSCBT6ST-7ST **REV.** 1

**DRAWN BY:** K.NAGENDRA 26-MAR-20 **THIRD**

**ENGINEER:** PRASANNA.T 26-MAR-20 **ANGLE**

**APPROVED BY:** PRASANNA.T 26-MAR-20 **PROJECTION**



**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.
- △ 6. ADJACENT BATTERY CABINET-3 INSTALLATION REQUIRES OPTIONAL CABLE KIT "GVSOPT028" FOR CONNECTION TO UPS. DISCARD PRE-INSTALLED POWER AND COMMUNICATION CABLES. ADDITIONAL TEMPERATURE SENSOR OJ-OM-1160 REQUIRED.
7. BATTERY CABINET-1 AND BATTERY CABINET-3 EACH CONNECT DIRECTLY TO THE UPS CABINET. NO DAISY CHAIN CONNECTIONS BETWEEN BATTERY CABINETS.
8. REMOTE BATTERY CABLES PROVIDED BY OTHERS.
- △ 9. REMOVE THIS JUMPER FOR FOUR BATTERY CABINETS CONFIGURATION

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**TITLE:** GALAXY VS BATTERY CABINET UL TYPE-6ST&7ST, 40 BATTERIES  
Input: 480Vdc, 3PH, 60Hz  
Output: 480Vac, 3PH, 60Hz  
CABLING DETAILS-4

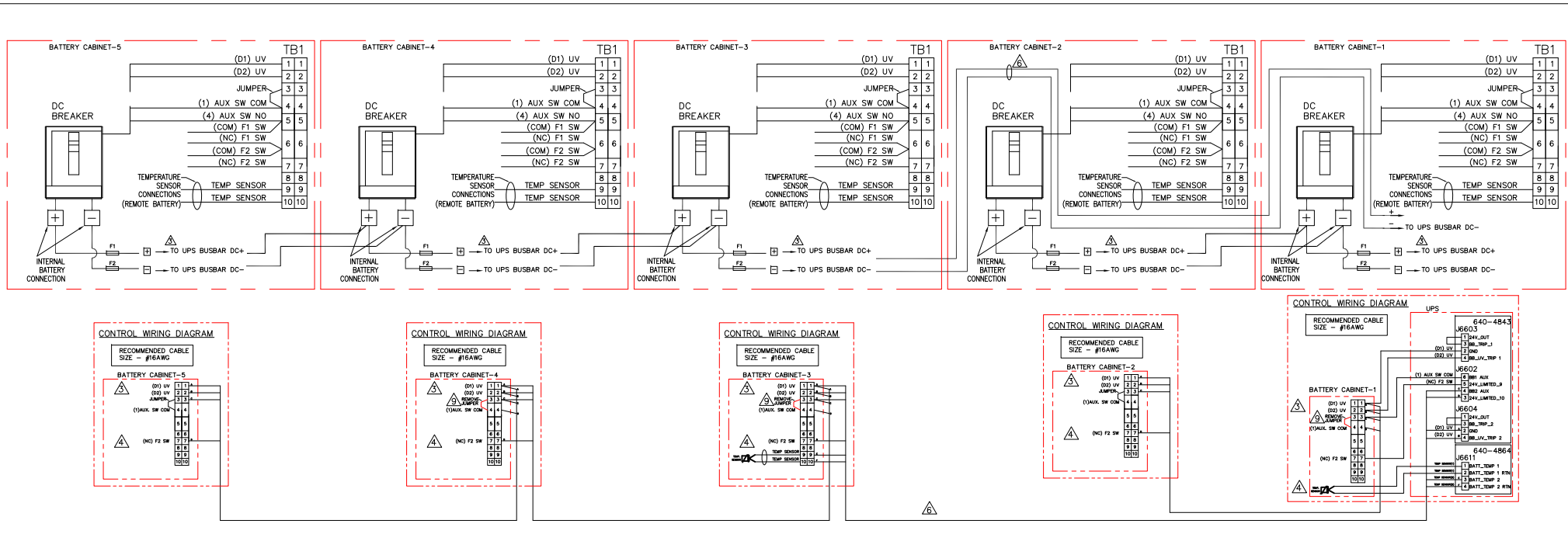
**PROJECT:** DRAWINGS **SHEET** 10 OF 13

**DWG NO:** GVSCBT6ST-7ST **REV.** 1

**DRAWN BY:** K.NAGENDRA 26-MAR-20 **THIRD**

**ENGINEER:** PRASANNA.T 26-MAR-20 **ANGLE**

**APPROVED BY:** PRASANNA.T 26-MAR-20 **PROJECTION**



**NOTES:**

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- △ 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-3 INSTALLATION REQUIRES OPTIONAL CABLE KIT "GVSOPT028" FOR CONNECTION TO UPS. DISCARD PRE-INSTALLED POWER AND COMMUNICATION CABLES. ADDITIONAL TEMPERATURE SENSOR 0J-0M-1160 REQUIRED.
7. BATTERY CABINET-1 AND BATTERY CABINET-3 EACH CONNECT DIRECTLY TO THE UPS CABINET.  
NO DAISY CHAIN CONNECTIONS BETWEEN BATTERY CABINETS.
8. REMOTE BATTERY CABLES PROVIDED BY OTHERS.
- △ 9. REMOVE THIS JUMPER FOR FIVE BATTERY CABINETS CONFIGURATION

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**TITLE:** GALAXY VS BATTERY CABINET UL TYPE-6ST&7ST, 40 BATTERIES  
**Input:** 480Vdc, 3PH, 60Hz  
**Output:** 480Vdc, 3PH, 60Hz  
**CABLING DETAILS-5**

**PROJECT:** DRAWINGS **SHEET** 110F13

**DWG NO:** GVSCBT6ST-7ST **REV.** 1

**DRAWN BY:** K.NAGENDRA 26-MAR-20 **THIRD**

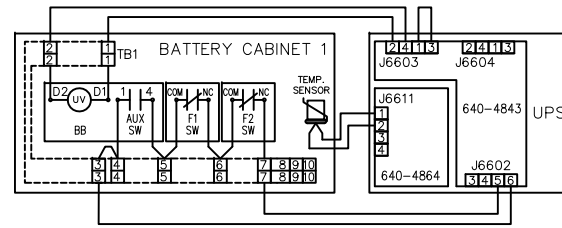
**ENGINEER:** PRASANNA.T 26-MAR-20 **ANGLE**

**APPROVED BY:** PRASANNA.T 26-MAR-20 **PROJECTION**

### CONTROL WIRING CONFIGURATION FOR ONE BATTERY CABINET

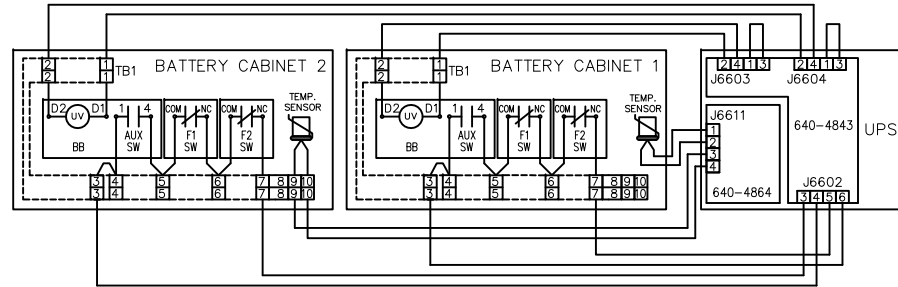
BATTERY CABINET 1 TO UPS		UPS	
<b>TB1-3 &amp; TB1-4 JUMPER=ON</b>	—	J6602-3	640-4843
	—	J6602-4	
	TB1-7	J6602-5	
	TB1-3	J6602-6	
	TB1-1	J6603-2	
	TB1-2	J6603-4	
	—	J6604-2	JUMPER ON J6603 1&3
	—	J6604-4	
	TEMP SENSOR	J6611-1	
	TEMP SENSOR	J6611-2	
—	J6611-3	640-4864	
—	J6611-4		

640-4843



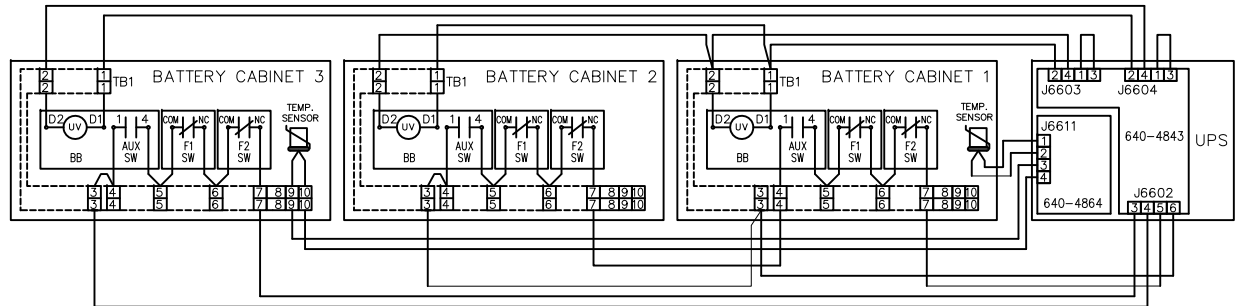
### CONTROL WIRING CONFIGURATION FOR TWO BATTERY CABINETS

BATTERY CABINET 2 TO UPS		BATTERY CABINET 1 TO UPS		UPS	
<b>TB1-3 &amp; TB1-4 JUMPER=ON</b>	TB1-7	—	J6602-3	640-4843	JUMPER ON J6603 1&3
	TB1-3	—	J6602-4		
	—	TB1-7	J6602-5		
	—	TB1-3	J6602-6		
	—	TB1-1	J6603-2		
	—	TB1-2	J6603-4		
	TB1-1	—	J6604-2	J6604 1&3	
	TB1-2	—	J6604-4		
	—	TEMP SENSOR	J6611-1		
	—	TEMP SENSOR	J6611-2		
—	—	J6611-3	640-4864		
—	—	J6611-4			
<b>OPTIONAL TEMP SENSOR</b>	TB1-9	—	—	—	—
	TB1-10	—	—	—	—



### CONTROL WIRING CONFIGURATION FOR THREE BATTERY CABINETS

BATTERY CABINET 3 TO UPS		BATTERY CABINET 2 TO BATTERY CABINET 1		BATTERY CABINET 1 TO UPS		UPS	
<b>TB1-3 &amp; TB1-4 JUMPER=ON</b>	TB1-7	—	—	—	J6602-3	640-4843	JUMPER ON J6603 1&3
	TB1-3	—	—	—	J6602-4		
	—	—	—	TB1-7	J6602-5		
	—	TB1-3	—	TB1-3	J6602-6		
	—	TB1-1	—	TB1-1	J6603-2		
	—	TB1-2	—	TB1-2	J6603-4		
	TB1-1	—	—	—	J6604-2	J6604 1&3	
	TB1-2	—	—	—	J6604-4		
	—	—	—	TEMP SENSOR	J6611-1		
	—	—	—	TEMP SENSOR	J6611-2		
—	—	—	—	J6611-3	640-4864		
—	—	—	—	J6611-4			
<b>OPTIONAL TEMP SENSOR</b>	TB1-9	—	—	—	—	—	—
	TB1-10	—	—	—	—	—	—
—	—	TB1-7	—	TB1-4	—	—	—



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**TITLE:** GALAXY VS BATTERY CABINET UL TYPE-6ST&7ST, 40 BATTERIES  
 Input: 480Vdc, 3PH, 60Hz  
 Output: 480vac, 3PH, 60Hz  
 CONTROL CABLING DETAILS-1

**PROJECT:** DRAWINGS **SHEET** 12 OF 13

**DWG NO:** GVSCBT6ST-7ST **REV.** 0

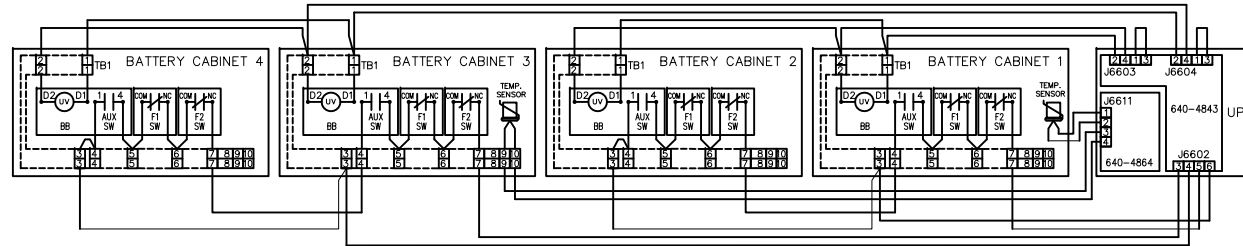
**DRAWN BY:** K.NAGENDRA 13-AUG-19 **THIRD**

**ENGINEER:** PRASANNA.T 05-NOV-19 **ANGLE**

**APPROVED BY:** PRASANNA.T 05-NOV-19 **PROJECTION**

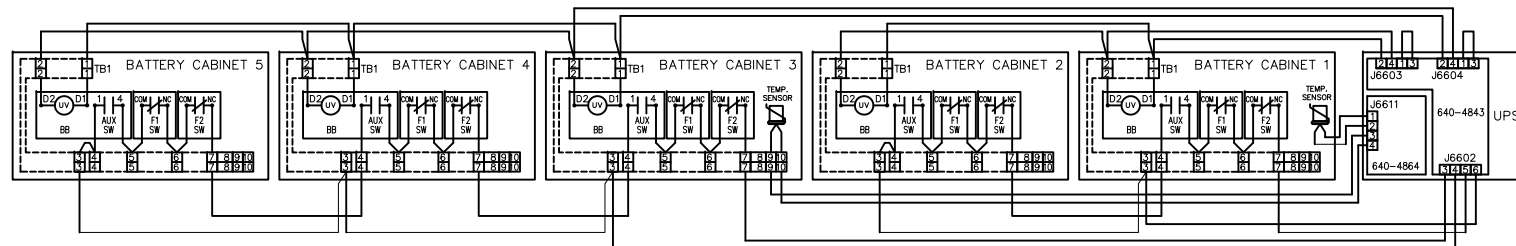
## CONTROL WIRING CONFIGURATION FOR FOUR BATTERY CABINETS

BATTERY CABINET 4 TO BATTERY CABINET 3		BATTERY CABINET 3 TO UPS		BATTERY CABINET 2 TO BATTERY CABINET 1		BATTERY CABINET 1 TO UPS		UPS	
<b>TB1-3 &amp; TB1-4 JUMPER=ON</b>	—	<b>TB1-3 &amp; TB1-4 JUMPER=OFF (REMOVE JUMPER)</b>	TB1-7	—	<b>TB1-3 &amp; TB1-4 JUMPER=ON</b>	—	J6602-3	<b>JUMPER ON J6603 1&amp;3 J6604 1&amp;3</b>	
	TB1-3		TB1-3	—		J6602-4			
	—		—	TB1-3		J6602-5			
	—		—	TB1-1		J6602-6			
	—		—	TB1-2		J6603-2			
	TB1-1		TB1-1	—		J6603-4			
	TB1-2		TB1-2	—		J6604-2			
	—		—	—		J6604-4			
	—		—	—		TEMP SENSOR J6611-1			
	—		—	—		TEMP SENSOR J6611-2			
—	<b>OPTIONAL TEMP SENSOR</b>	—	—	J6611-3	<b>640-4864</b>				
—		TB1-9	—	J6611-4					
—		TB1-10	—	—					
TB1-7	—	TB1-4	—	TB1-4	—	—	—	—	



## CONTROL WIRING CONFIGURATION FOR FIVE BATTERY CABINETS

BATTERY CABINET 5 TO BATTERY CABINET 4		BATTERY CABINET 4 TO BATTERY CABINET 3		BATTERY CABINET 3 TO UPS		BATTERY CABINET 2 TO BATTERY CABINET 1		BATTERY CABINET 1 TO UPS		UPS	
<b>TB1-3 &amp; TB1-4 JUMPER=ON</b>	—	<b>TB1-3 &amp; TB1-4 JUMPER=OFF (REMOVE JUMPER)</b>	TB1-7	—	<b>TB1-3 &amp; TB1-4 JUMPER=ON</b>	—	J6602-3	<b>JUMPER ON J6603 1&amp;3 J6604 1&amp;3</b>			
	TB1-3		TB1-3	—		J6602-4					
	—		—	TB1-3		J6602-5					
	—		—	TB1-1		J6602-6					
	—		—	TB1-2		J6603-2					
	TB1-1		TB1-1	—		J6603-4					
	TB1-2		TB1-2	—		J6604-2					
	—		—	—		J6604-4					
	—		—	—		TEMP SENSOR J6611-1					
	—		—	—		TEMP SENSOR J6611-2					
—	<b>OPTIONAL TEMP SENSOR</b>	—	—	J6611-3	<b>640-4864</b>						
—		TB1-9	—	J6611-4							
—		TB1-10	—	—							
TB1-7	—	TB1-4	—	TB1-4	—	—	—	—			



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**TITLE:** GALAXY VS BATTERY CABINET UL TYPE-6ST&7ST, 40 BATTERIES  
 Input: 480Vdc, 3PH, 60Hz  
 Output: 480Vac, 3PH, 60Hz  
 CONTROL CABLING DETAILS-2

**PROJECT:** DRAWINGS **SHEET** 13 OF 13

**DWG NO:** GVSCBT6ST-7ST **REV.** 0

**DRAWN BY:** K.NAGENDRA 13-AUG-19 **THIRD**

**ENGINEER:** PRASANNA.T 05-NOV-19 **ANGLE**

**APPROVED BY:** PRASANNA.T 05-NOV-19 **PROJECTION**