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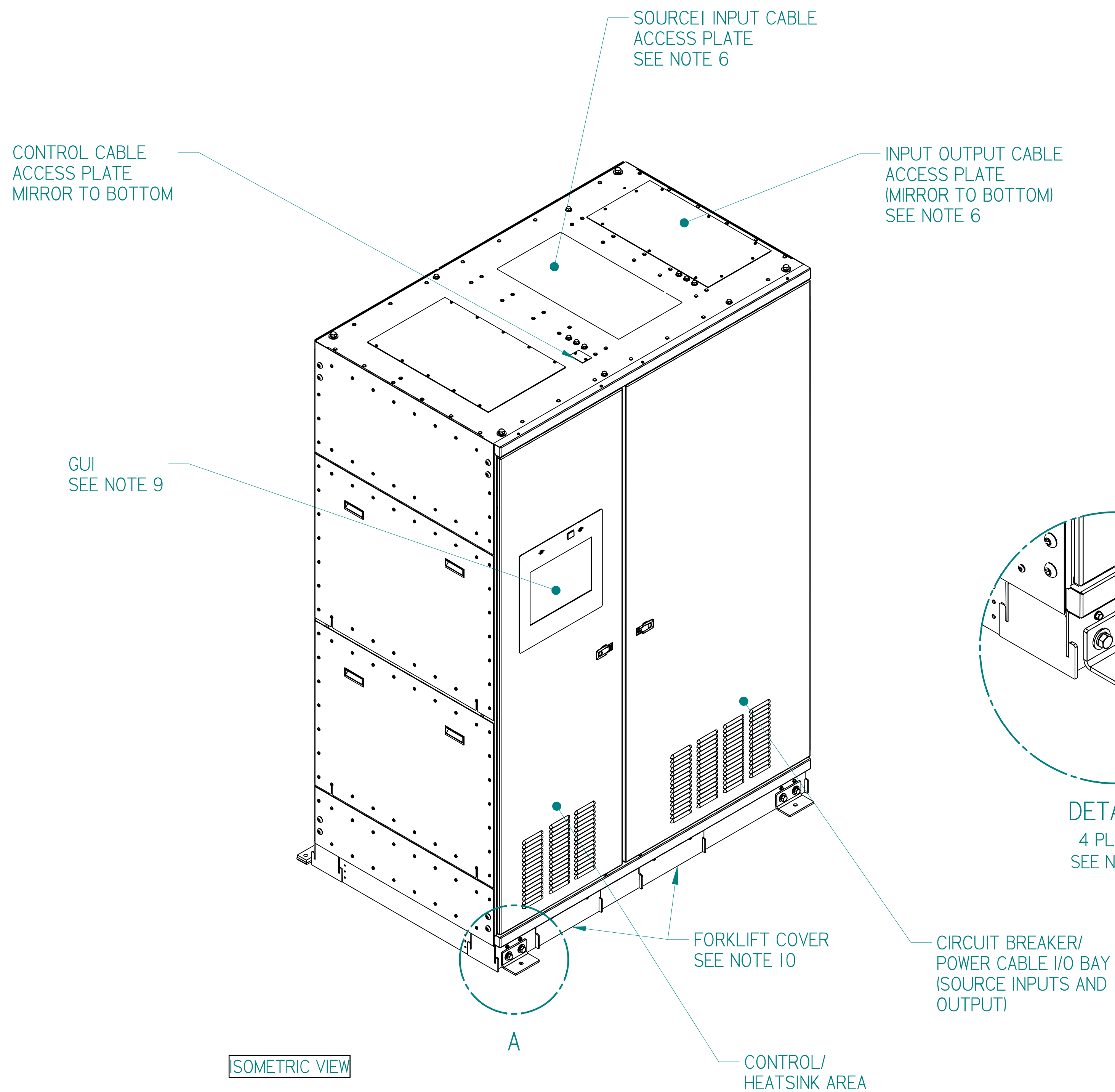
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REVISIONS				
ECN	REV	DESCRIPTION	DATE	APPROVED
-	C	DETAIL CUSTOMER CONTROL INTERFACE AREA - SHT3	05/25/2023	SPJ



Notes:

1. Front access only required for operation and servicing of the eSTS. Source Inputs and Output load cabling may be wired from either the top or bottom.
2. The eSTS is mounted on a common frame with all internal connections factory provided. There are no shipping splits. The unit is provided with forklift provision as shown for maneuvering.
3. For the eSTS, with a 480V / 800A / 60Hz / SMR / 3-Pole Fixed Circuit Breaker / 3 wire configuration: see Sheet 2 for Cable Access Areas and recommended wire size (Table I).
4. See Sheet 2 for anchoring locations of the eSTS. The eSTS is Seismically Qualified per ACI56 to Sds Level 2.00/2.50 with z/h = 1, Ip = 1.5. Torque tighten Seismic Brackets shown to floor Anchors at 50lb-ft (108.5N-m).
5. See Sheet 3 for description of internal components. The eSTS can be configured for either 5CB or 6CB as the sixth circuit breaker (CB302) is a redundant Output Circuit Breaker. Customer to specify CB configuration at the time of order. The design will show maximum configuration for (6) circuit breakers with the redundant output circuit breaker. All circuit breakers are Fixed Molded Case Switches.
6. See Sheet 4 for Cable I/O landing locations. Maximum QTY4 750MCM Copper cable or QTY4 600MCM Aluminum per phase landing will attach directly to the Access Plates if Entry / Exit from common plate.
7. Sheet 3 will show QTY7 Infrared Portals on the Input/Output Bay deadfront door for thermal imaging of customer cable connections. An optional Insight IR thermal imaging system is available for scanning of Input / Output Cable Connections and internal component connections. Please consult factory if this option is desired.
8. A optional mechanical Bypass Interlock mechanism is supplied standard as shown on Sheet 3.
9. A large 15 inch Touchscreen Graphical User Interface (GUI) is provided on the cabinet exterior for control and monitoring.
10. Forklift covers are provided and may be installed after final positioning.
11. Optional Seismic Mounting Cleats are available for the rear mounting anchors to slide the unit in from the front if the unit is mounted such that the rear of the cabinet is in close proximity to a wall or other equipment. Please specify option if required at the time of order. See Sheet 5 for detail.
- 12 See One-Line electrical diagram for further detail.
13. The customer Input / Output Terminal Landings are configurable for either top or bottom access or exit. Please specify Input / Output orientation at the time of order. If data unavailable consult factory as the terminals are field configurable.

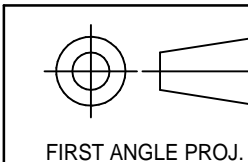
ISOMETRIC VIEW

DETAIL A  
4 PLACES  
SEE NOTE 4

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TOLERANCES:  
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.XXX ± .010  
ANGULAR ± .1/2



FIRST ANGLE PROJ.



OUTLINE, MOUNTING, INSTALLATION DIAGRAM  
800A, 480V, 60Hz, SMR, 3 WIRE, 3-POLE INPUT  
2 Source, 5CB/6CB Fixed MCS  
Series 70 eSTS

DWN SPJ	DATE 2/2/2022	SIZE D	FSCM NO.	DWG NO.	REV C
CHK NEM	DATE 2/2/2022	94-MS-40895001+CSHTI		94-MS-40895001	
APVD SPJ	DATE 2/2/2022	SCALE 1:8	SHEET 1 of 5		

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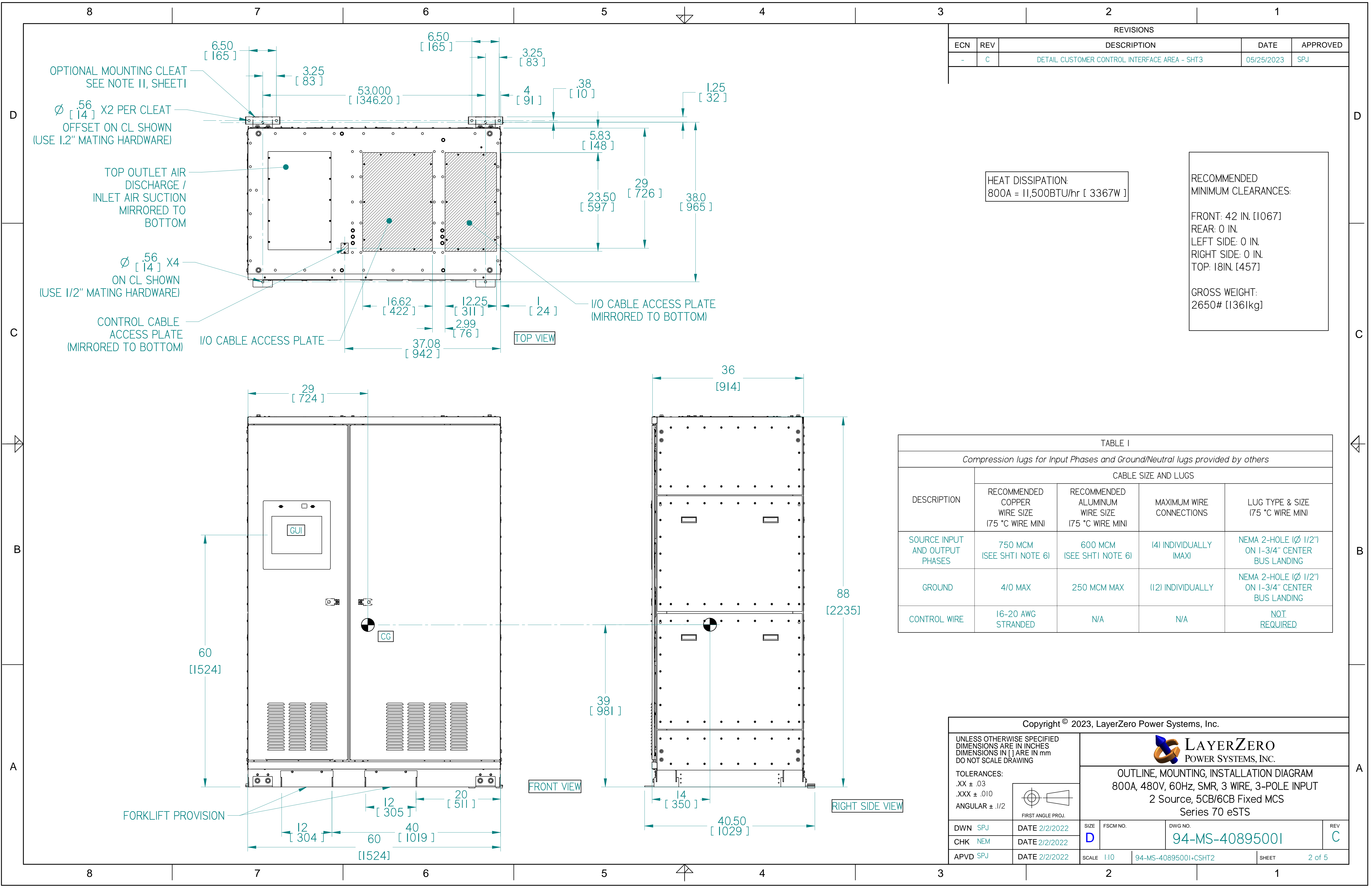
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TABLE I				
Compression lugs for Input Phases and Ground/Neutral lugs provided by others				
DESCRIPTION	CABLE SIZE AND LUGS			
	RECOMMENDED COPPER WIRE SIZE (75 °C WIRE MIN)	RECOMMENDED ALUMINUM WIRE SIZE (75 °C WIRE MIN)	MAXIMUM WIRE CONNECTIONS	LUG TYPE & SIZE (75 °C WIRE MIN)
SOURCE INPUT AND OUTPUT PHASES	750 MCM (SEE SHT1 NOTE 6)	600 MCM (SEE SHT1 NOTE 6)	(4) INDIVIDUALLY (MAX)	NEMA 2-HOLE (Ø 1/2") ON 1-3/4" CENTER BUS LANDING
GROUND	4/0 MAX	250 MCM MAX	(12) INDIVIDUALLY	NEMA 2-HOLE (Ø 1/2") ON 1-3/4" CENTER BUS LANDING
CONTROL WIRE	16-20 AWG STRANDED	N/A	N/A	NOT REQUIRED

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800A, 480V, 60Hz, SMR, 3 WIRE, 3-POLE INPUT  
2 Source, 5CB/6CB Fixed MCS  
Series 70 eSTS

DWN SPJ	DATE 2/2/2022	SIZE D	FSCM NO.	DWG NO. 94-MS-40895001	REV C
CHK NEM	DATE 2/2/2022	SCALE 1:10	94-MS-40895001+CSHT2	SHEET 2 of 5	
APVD SPJ	DATE 2/2/2022				



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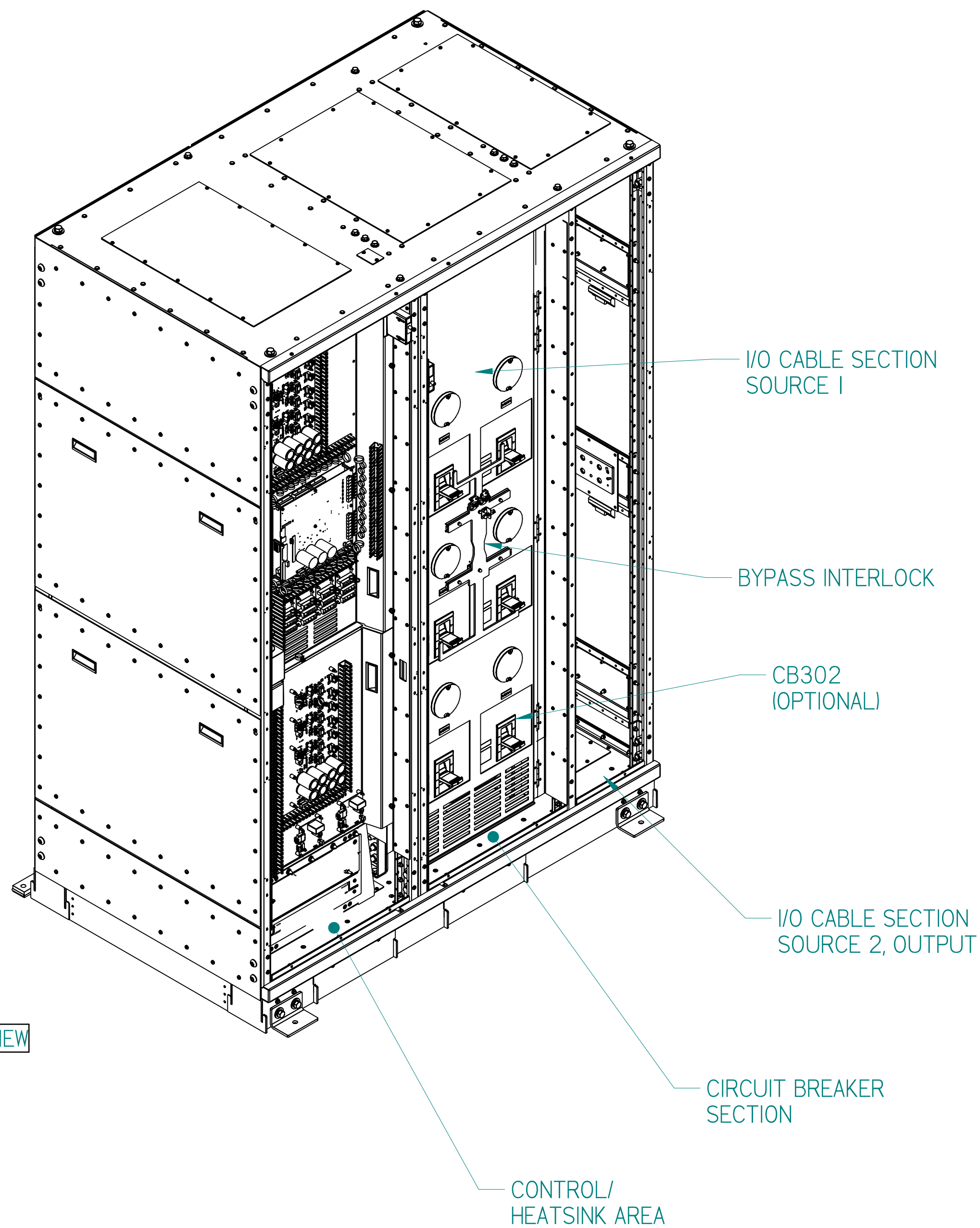
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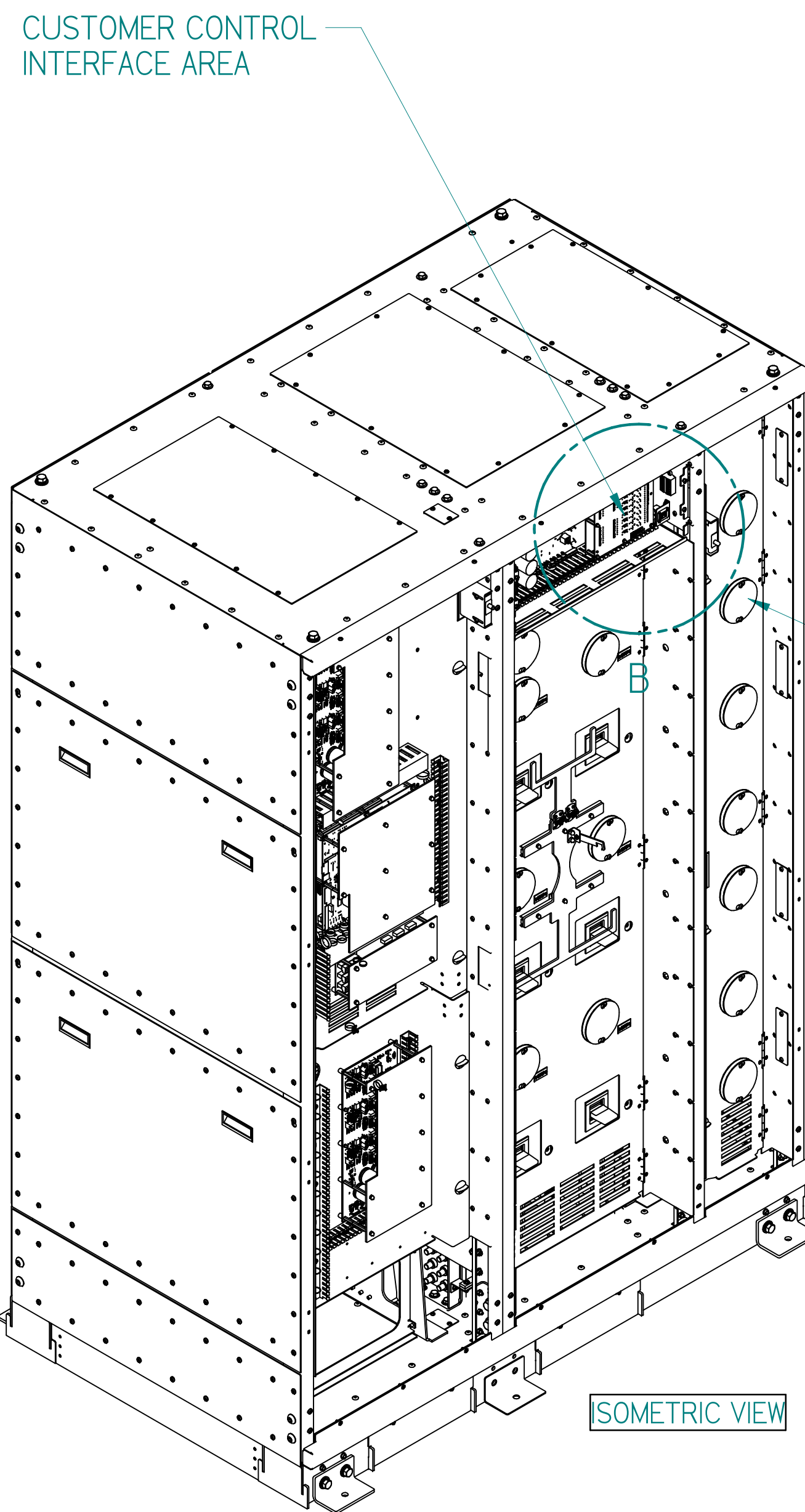
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REVISIONS				
ECN	REV	DESCRIPTION	DATE	APPROVED
-	C	DETAIL CUSTOMER CONTROL INTERFACE AREA - SHT3	05/25/2023	SPJ

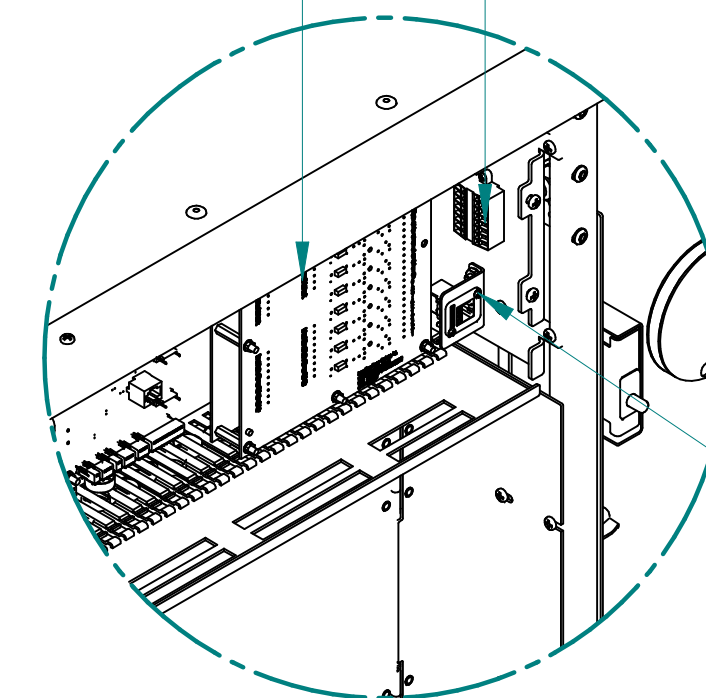


ISOMETRIC VIEW



ISOMETRIC VIEW

ISOMETRIC VIEW WITH EXTERIOR CABINET DOORS REMOVED



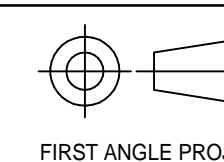
DETAIL B

CUSTOMER CONTROL INTERFACE

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OUTLINE, MOUNTING, INSTALLATION DIAGRAM  
800A, 480V, 60Hz, SMR, 3 WIRE, 3-POLE INPUT  
2 Source, 5CB/6CB Fixed MCS  
Series 70 eSTS

DWN SPJ	DATE 2/2/2022	SIZE D	FSCM NO.	DWG NO. 94-MS-40895001	REV C
CHK NEM	DATE 2/2/2022	SCALE 1:10	94-MS-40895001+CSHT3	SHEET	3 of 5
APVD SPJ	DATE 2/2/2022				

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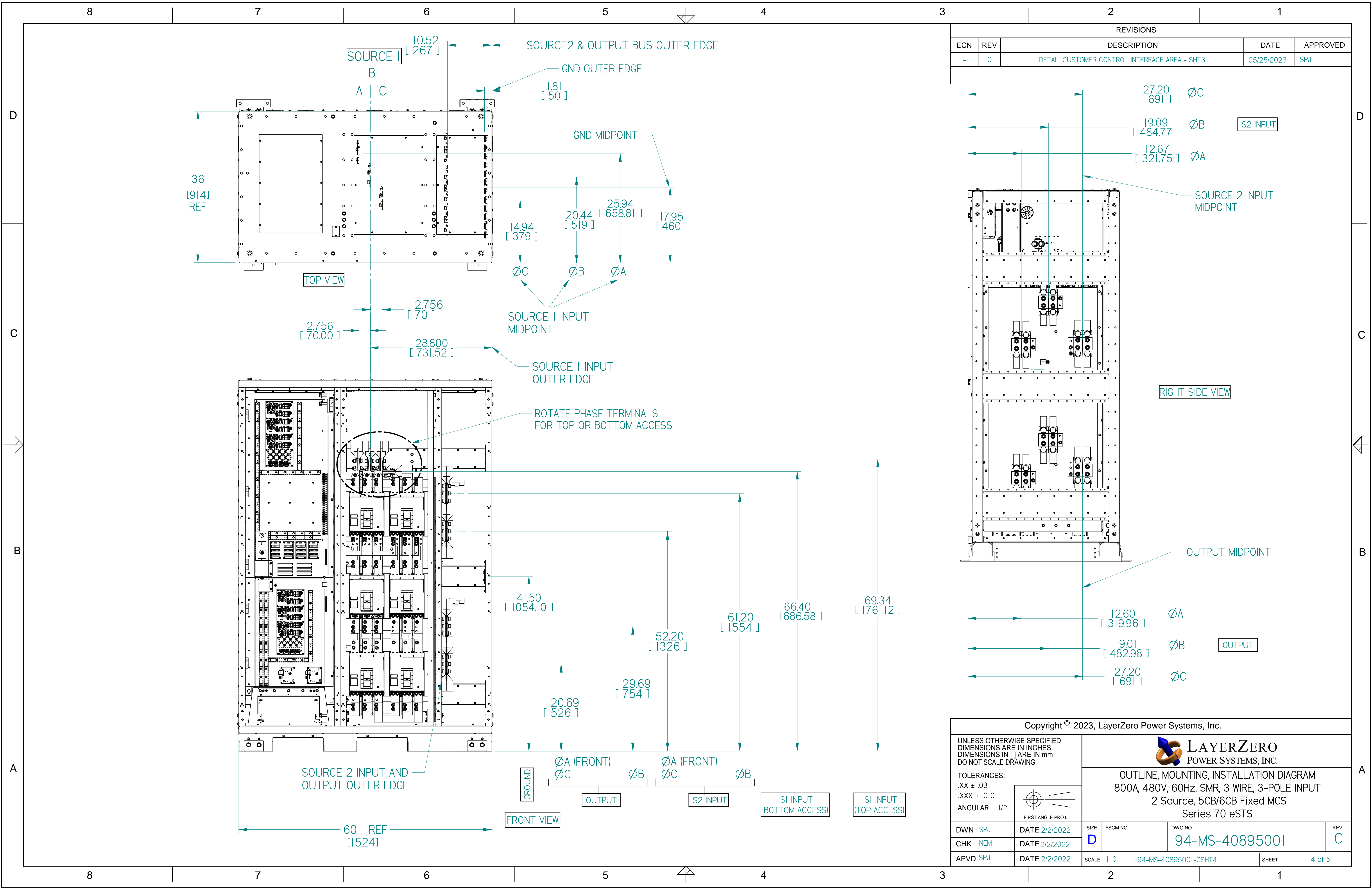
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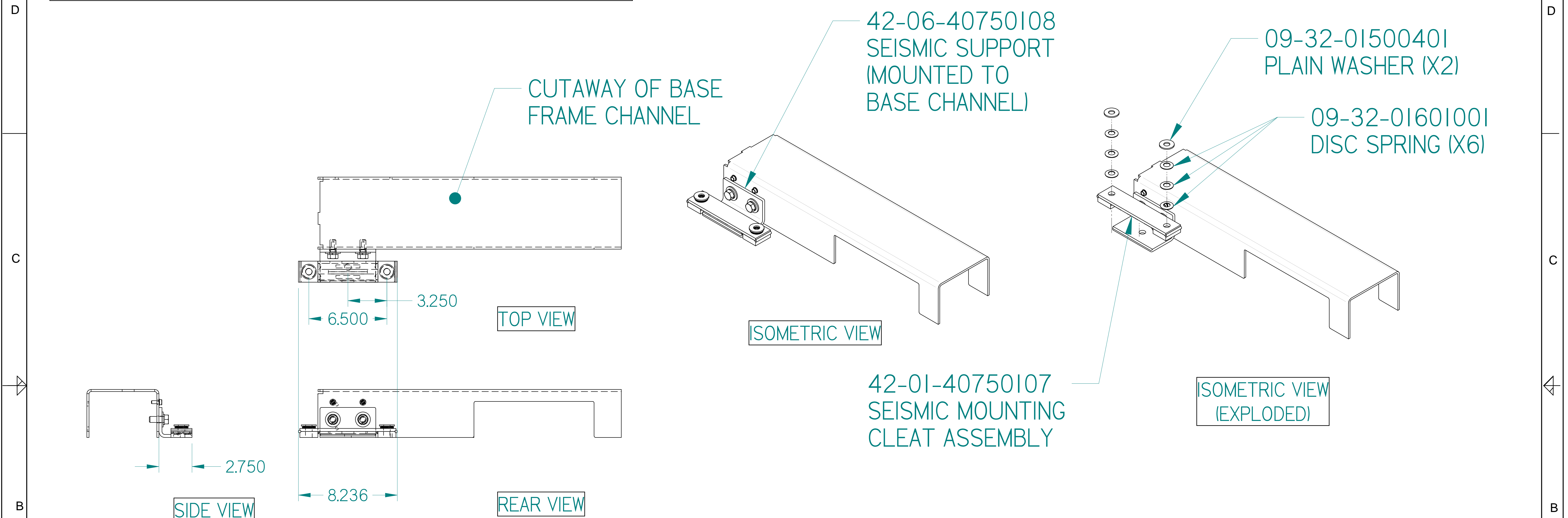
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OUTLINE, MOUNTING, INSTALLATION DIAGRAM  
800A, 480V, 60Hz, SMR, 3 WIRE, 3-POLE INPUT  
2 Source, 5CB/6CB Fixed MCS  
Series 70 eSTS

DWN SPJ	DATE 2/2/2022	SIZE D	FSCM NO.	DWG NO. 94-MS-40895001	REV C
CHK NEM	DATE 2/2/2022	SCALE 1:10	94-MS-40895001+CSHT4	SHEET	4 of 5

# 42-00-40750107 SEISMIC MOUNTING CLEAT ASSEMBLY INSTRUCTION

REVISIONS				
ECN	REV	DESCRIPTION	DATE	APPROVED
-	C	DETAIL CUSTOMER CONTROL INTERFACE AREA - SHT3	05/25/2023	SPJ



**NOTES:**

1. THE FOLLOWING IS TO BE USED AS A GUIDE TO INSTALL SEISMIC MOUNTING CLEATS ON LAYERZERO CABINETS. THE CLEATS ARE USED WHERE REAR ACCESS IS UNAVAILABLE AFTER FINAL INSTALLATION.
2. CLEATS WILL BE PROVIDED FOR ALL REAR SEISMIC SUPPORTS.
3. THE SEISMIC ENGINEER AT THE SITE WILL DETERMINE THE TYPES OF ANCHORS TO BE USED AND 2 ANCHORS ARE NEEDED PER CLEAT.
4. THE CLEATS ARE SIZED FOR 1/2IN (12mm) SEISMIC ANCHORS WITH A REQUIRED TORQUE FO 50LB-FT (67.69Nm).
5. LOCATE THE CLEATS OFF OF THE CENTERLINE OF THE 42-06-40750108 SEISMIC SUPPORTS ON THE BASE CHANNEL AS SHOWN IN THE TOP AND SIDE VIEWS.
6. AFTER ANCHOR STUDS OR WELLS ARE INSTALLED INTO THE FLOOR MOUNT THE 42-01-40750107 SEISMIC MOUNTING CLEAT ASSEMBLY WITH DISC SPRINGS AND PLAIN WASHERS AS SHOWN IN THE EPLODED ISOMETRIC VIEW.
7. TORQUE TIGHTEN ANCHORAGE TO 50LB-FT (67.79Nm) OF TORQUE.
8. INSTALL CABINET BY SLIDING THE UNIT IN WITH THE SEISMIC SUPPORTS UNDERNEATH THE SEISMIC CLEATS. COMPLETE INSTALLATION WITH ANCHORAGE OF THE FRONT SEISMIC SUPPORTS TO TEH GROUND.

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OUTLINE, MOUNTING, INSTALLATION DIAGRAM  
 800A, 480V, 60Hz, SMR, 3 WIRE, 3-POLE INPUT  
 2 Source, 5CB/6CB Fixed MCS  
 Series 70 eSTS

DWN SPJ	DATE 2/2/2022	SIZE D	FSCM NO.	DWG NO. 94-MS-40895001	REV C
CHK NEM	DATE 2/2/2022	SCALE 1:1	94-MS-40895001+CSHT5	SHEET	5 of 5
APVD SPJ	DATE 2/2/2022				