

FRONT VIEW

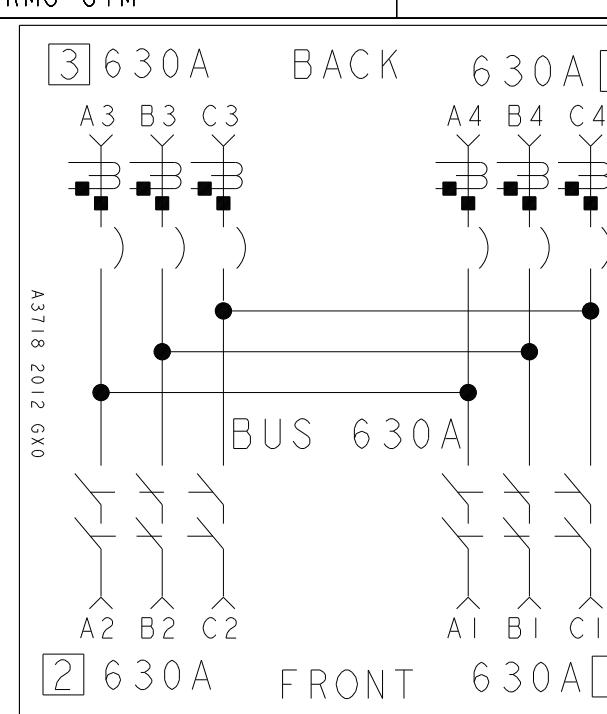
ENTRANCES	BUSHING ELECTRICAL CHARACTERISTICS	IEEE 386 INTERFACE
WAY 1	15.5KV 630A DEADBREAK APPARATUS BUSHING	INTERFACE II
WAY 2	15.5KV 630A DEADBREAK APPARATUS BUSHING	INTERFACE II
WAY 3	15.5KV 630A DEADBREAK APPARATUS BUSHING	INTERFACE II
WAY 4	15.5KV 630A DEADBREAK APPARATUS BUSHING	INTERFACE II

### SWITCH ELECTRICAL INFORMATION

SEE NOTES FOR LIMITATIONS

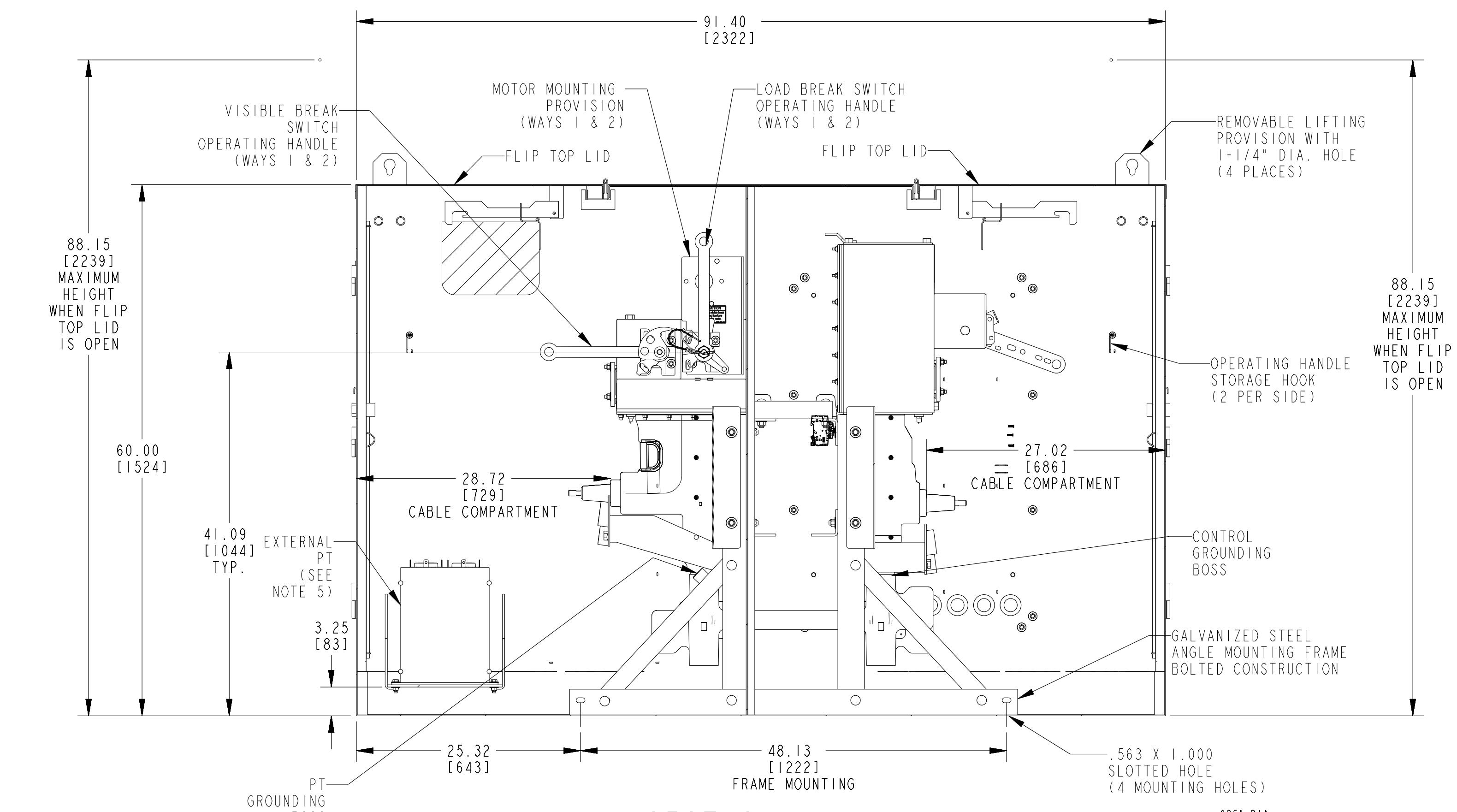
3D MODEL NO. F9FBVU 3D MODEL LAST CHECKED Mon Mar 08 2019 22:05:00 GMH 3D DRAWING LAST CHECKED Tue Sep 03 2019 21:14:14 GMH 3D STANDARD

	WAYS 1 & 2	WAYS 3 & 4
MAXIMUM DESIGN VOLTAGE - SEE NOTE 5	12.47 KV	12.47 KV
IMPULSE LEVEL (BIL)	95 KV	110 KV
CONTINUOUS CURRENT, RMS SYM	SEE THREE LINE	
CURRENT INTERRUPTING, RMS SYM	630 A	12.5 KA
AC 1 MINUTE WITHSTAND (DRY)	SEE NOTE 5	SEE NOTE 5
DC 15 MINUTE WITHSTAND	SEE NOTE 5	SEE NOTE 5
MOMENTARY CURRENT, RMS ASYM	20 KA	
MAKING CURRENT, RMS ASYM	20 KA	
SHORT-TIME WITHSTAND RATING (1 SEC. DURATION), RMS SYM	12.5 KA	

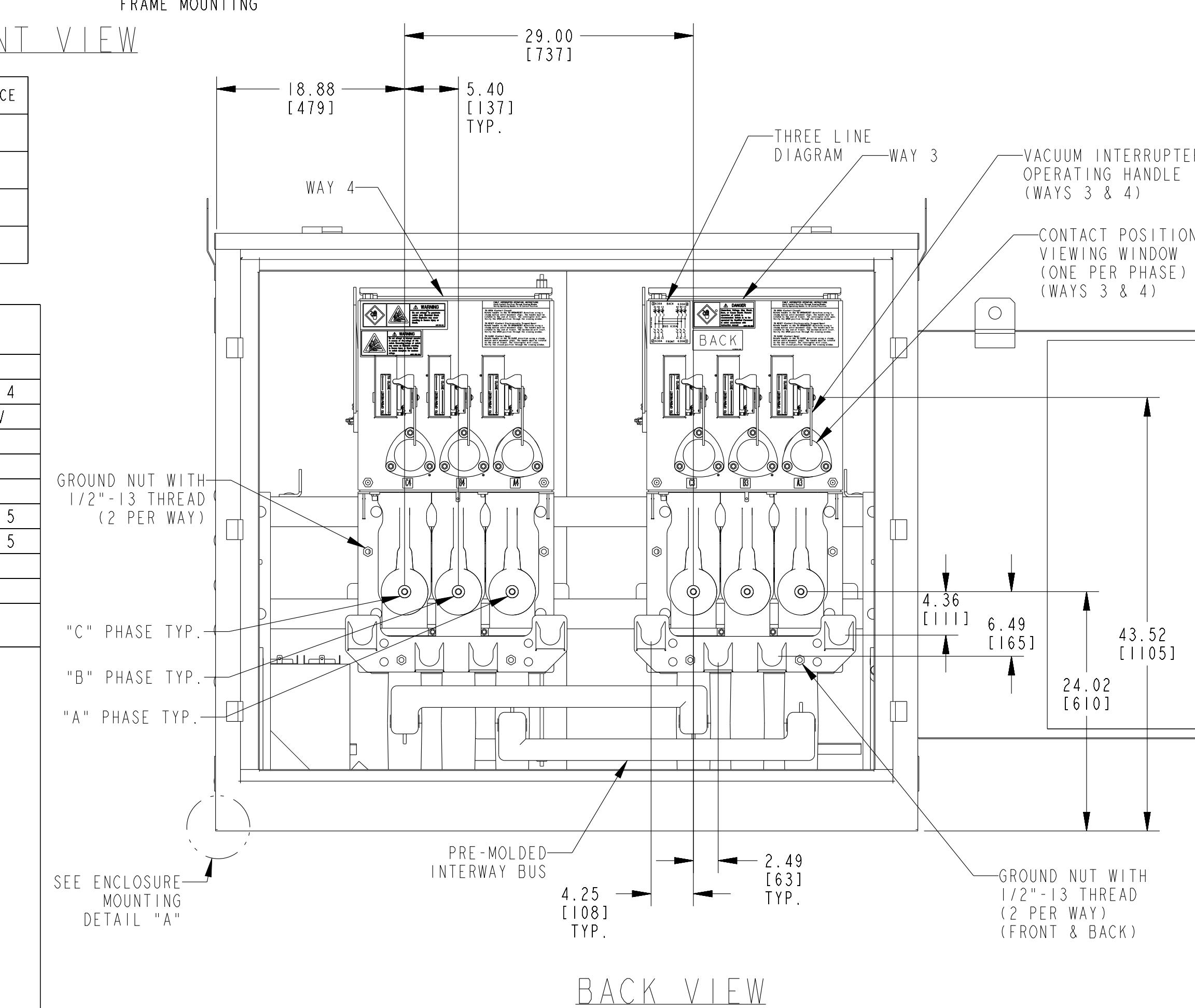


THREE LINE DIAGRAM

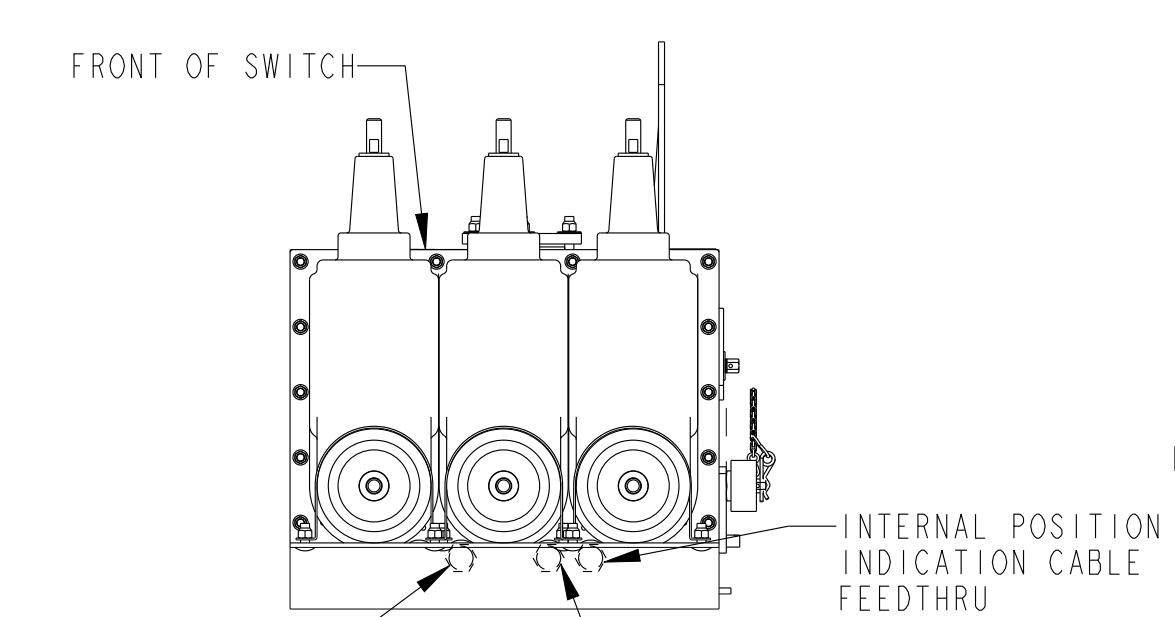
SWITCH WEIGHT 3250 LBS / 1475 KG  
SHIPPING WEIGHT 4150 LBS / 1883 KG



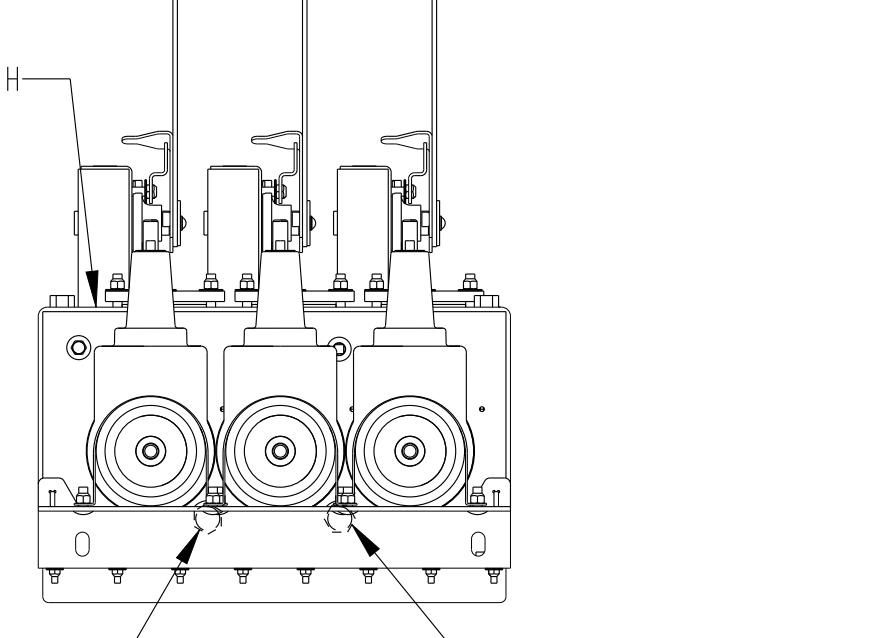
SECTION A-A



BACK VIEW



BOTTOM VIEW OF COMPACT TRIDENT SAFEVU SHOWING FEEDTHRU LOCATIONS (WAYS 1 & 2)



BOTTOM VIEW OF TRIDENT-ST SHOWING FEEDTHRU LOCATIONS (WAYS 3 & 4)

PRINT IDENTIFICATION	DATE _____	G&W NO. _____
CUSTOMER	_____	
ORDER NO.	_____	
<input type="checkbox"/> FOR RECORD	ITEM NO. _____	
<input type="checkbox"/> FOR APPROVAL-NO MORE WORK TO BE DONE UNTIL APPROVAL IS RECEIVED		

\* ALL PRIMARY DIMENSIONS ARE IN INCHES.  
ALL SECONDARY DIMENSIONS ARE IN MILLIMETERS.

ALL DRAWING CHANGES MUST BE MADE ON CAD. ANY MANUAL CHANGES WILL VOID DRAWING.

PLT42-376-12-9FBVU

12.47KV 4 WAY SOLID DIELECTRIC SWITCH

G&W  
G&W ELECTRIC CO.

CAT. NO.: PLT42-376-12-9FBVU DRAWING NO.: DM80C LLFF AJO REV A  
ENG/DES: CLN CLN DATE: Feb-22-23  
APPR BY: JQ DATE: Feb-22-23 SCALE: SHEET: 1 of 3

FINAL REVIEW		REVISIONS				
CLN	JQ	REV.	ECO	ENG	DES	DATE
VX		A	607184	GRS	GRS	4-25-23

## NOTES :

1. ALL WAYS ARE EQUIPPED WITH INTERNAL SPRING OPERATORS AND EXTERNAL PROVISIONS FOR PADLOCKING IN ALL POSITIONS.
  2. UNFINISHED 304/304L STAINLESS STEEL MOUNTING PLATE WITH BOLTED 304/304L STAINLESS STEEL MECHANISM COVER FINISHED ASA 70 LIGHT GRAY.
  3. GALVANIZED STEEL ENCLOSURE FINISHED PADMOUNT GREEN MUNSELL 7GY3.29/1.5. ENCLOSURE IS DESIGNED PER APPLICABLE SECTIONS OF ANSI/IEEE C37.74 AND C57.12.28. DRAWING IS TYPICAL AND SHOWS OVERALL DIMENSIONS ONLY. CONSTRUCTION DETAILS MAY VARY FROM THOSE DEPICTED.
  4. WHEN ELBOWS, INSERTS, AND ANY OTHER ACCESSORIES ARE CONNECTED TO THE SWITCH, THE RATINGS OF EACH CONNECTED ASSEMBLY WILL BE THAT OF THE LOWEST RATED COMPONENT OF THE ASSEMBLY.
  5. THE SWITCH IS EQUIPPED WITH ONE ABB TYPE VIL-95 PT MOUNTED WITHIN THE SWITCH ENCLOSURE. THE PT IS DESIGNED FOR USE ON A 7200V PHASE TO GROUND SYSTEM AND HAS A 60:1 RATIO, A 1500VA OUTPUT, RATED 95KV BIL AND IS ABB PART NUMBER 7881A93G04. THE PT PRIMARY IS TO BE CUSTOMER CONNECTED UTILIZING THE CUSTOMER PROVIDED CABLE AND APPROPRIATE COMPONENTS SUCH AS ELBOWS, INSERTS, CONNECTING PLUGS, AND TAP PLUGS. THE H1 BUSHING ON THE PRIMARY SIDE OF THE PT MUST BE CONNECTED TO THE CUSTOMER CHOSEN PHASE ON WAY 1 AND THE H2 BUSHING ON THE PRIMARY SIDE OF THE PT TO GROUND, PER ABB INSTRUCTIONS, LOCAL CODES, AND PRACTICES. THE PT 120VAC PHASE TO GROUND SECONDARY IS FACTORY CONNECTED TO THE CONTROL.

IN ACCORDANCE WITH C57.13, SWITCHES EQUIPPED WITH PT AND CONNECTED ARE NOT TO BE ENERGIZED ABOVE THE NAMEPLATE RATINGS NOR SUBJECT TO DC VOLTAGE TESTING. THE AC 1 MINUTE WITHSTAND TEST VOLTAGE IS DECREASED TO THE PT NOMINAL VOLTAGE OF 12470V WHEN PT IS CONNECTED. WHEN PT IS DISCONNECTED, THE SWITCH AC 1 MINUTE WITHSTAND TEST VOLTAGE IS 34KV, DC 15 MINUTE WITHSTAND TEST VOLTAGE IS 53KV, AND SWITCH RATED MAXIMUM VOLTAGE IS 15.5KV.
  6. SWITCH IS EQUIPPED WITH INTERNAL 1000:1 CURRENT TRANSFORMER ON WAYS 3 AND 4.
  7. MOUNTING INFORMATION: THE FRAME OF THE SWITCH MUST BE ANCHORED TO THE PAD. THE FRAME IS EQUIPPED WITH 4 SLOTTED ANCHORING HOLES, EACH MEASURING 9/16" X 1". THE LOCATIONS OF THESE HOLES, REFERRED TO AS "FRAME MOUNTING" ARE SHOWN IN THE FRONT VIEW AND SECTION A-A. THE PAD MOUNT ENCLOSURE SHOULD BE SECURED TO THE PAD TO PROVIDE IT WITH ADDITIONAL STABILITY. EACH PAD MOUNT ENCLOSURE IS SHIPPED WITH 4 SECURING BRACKETS THAT ARE TO BE USED FOR THIS PURPOSE. THE SECURING BRACKETS CAN BE INSTALLED ANYWHERE ALONG THE INNER EDGE OF THE ENCLOSURE. SEE ENCLOSURE MOUNTING DETAIL "A" AND THE PLAN VIEW FOR MORE DETAILS ABOUT SECURING THE PAD MOUNT ENCLOSURE TO THE PAD.
  8. WAYS 1 AND 2 ARE EQUIPPED WITH TWO AUXILIARY FORM C CONTACTS. THE CONTACTS ARE WIRED TO THE CONTROL CABINET FOR CUSTOMER USE. EACH FORM C CONTACT CAN BE WIRED AS A 52A OR 52B.
  9. WAYS 1 AND 2 ARE EQUIPPED WITH ONE AUXILIARY FORM C CONTACT ON THE VISIBLE BREAK MECHANISM. THE CONTACTS ARE WIRED TO THE CONTROL CABINET FOR USE BY THE CONTROL.
  10. WAYS 3 AND 4 ARE EQUIPPED WITH ONE AUXILIARY FORM C CONTACT PER PHASE. THE CONTACTS ARE WIRED TO THE CONTROL CABINET FOR USE BY THE CONTROL.
  11. SWITCH EQUIPPED WITH INTERNAL POSITION INDICATION ON WAYS 1 AND 2. INTERNAL POSITION INDICATION IS FOR FUTURE MOTOR CONTROL USE. SWITCH IS EQUIPPED WITH PROVISIONS FOR MOTOR OPERATOR ON WAYS 1 & 2.
  12. SWITCH INCLUDES ONE STATIONARY MOTOR CONTROL FOR WAYS 1 AND 2 USING A SEL 045152111COXIH7410X2X RELAY. THE CONTROL IS EQUIPPED WITH DUAL 120VAC INPUTS AND BATTERY BACKUP, MILD STEEL NEMA 4 ENCLOSURE WITH PADLOCKING HANDLE, DOCUMENT HOLDER AND CONVENIENCE OUTLET. THE CONTROL PROVIDES SINGLE PHASE OVERCURRENT PROTECTION 50P, 50N, 50G, 51P, 51N AND 51G FOR WAYS 3 AND 4 UTILIZING THE INTERNAL 1000:1 CTS. CONTROL INCLUDES INSTRUCTION MANUAL GWI-523-407 AND GWI-523-664CD.
  13. WAYS 3 AND 4 ARE EQUIPPED WITH EXTERNAL INTERLOCKS TO PROVIDE OPERATION SEQUENCE. INTERNAL INTERLOCK PREVENTS OPENING OF DISCONNECT SWITCH UNLESS INTERRUPTER IS OPENED

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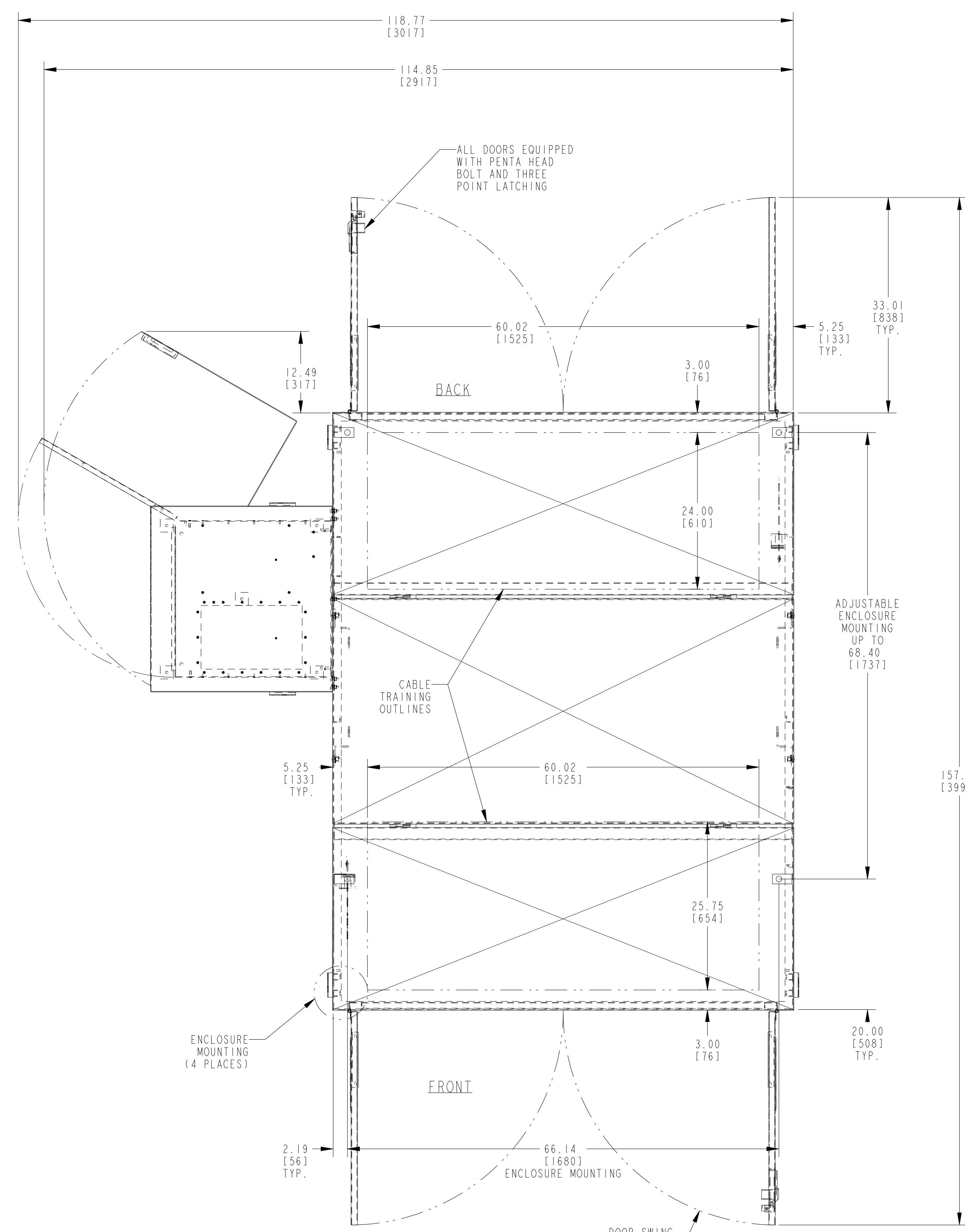
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PLT42-376-12-9FBVU

## 12.47KV 4 WAY SOLID DIELECTRIC SWITCH



CAT. NO.: PLT42-376-12-9FBVU				DRAWING NO.	REV
ENG/DES:	CLN	CLN	DATE: Feb-22-23	DM80C LLFF AJ0	A
APPR BY:	IQ		DATE: Feb-22-23	SCALE:	SHEET: 2 of 3

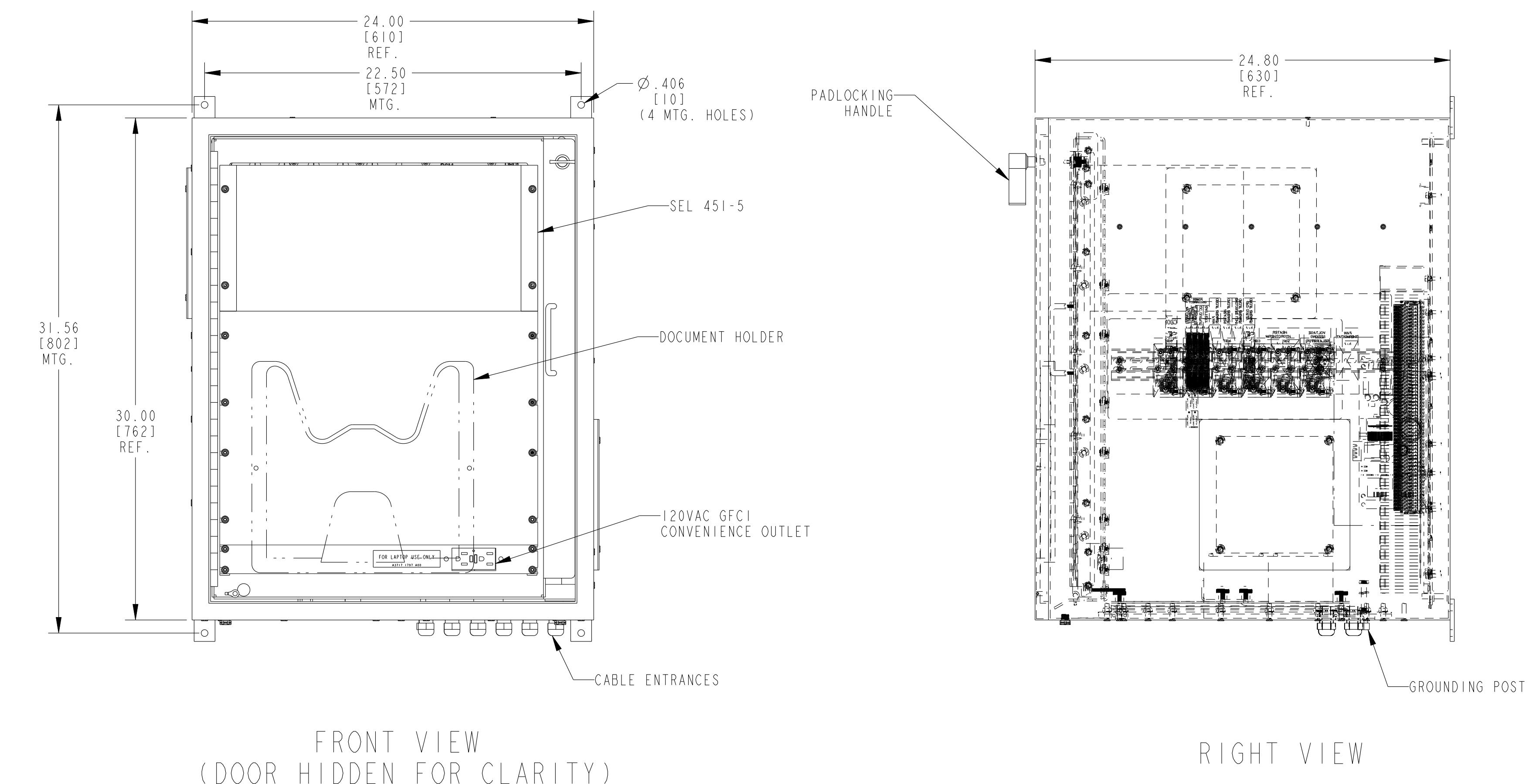


PLAN VIEW SHOWING OVERALL DIMENSIONS AND MAXIMUM DIMENSIONS WHEN ENCLOSED DOORS ARE OPEN

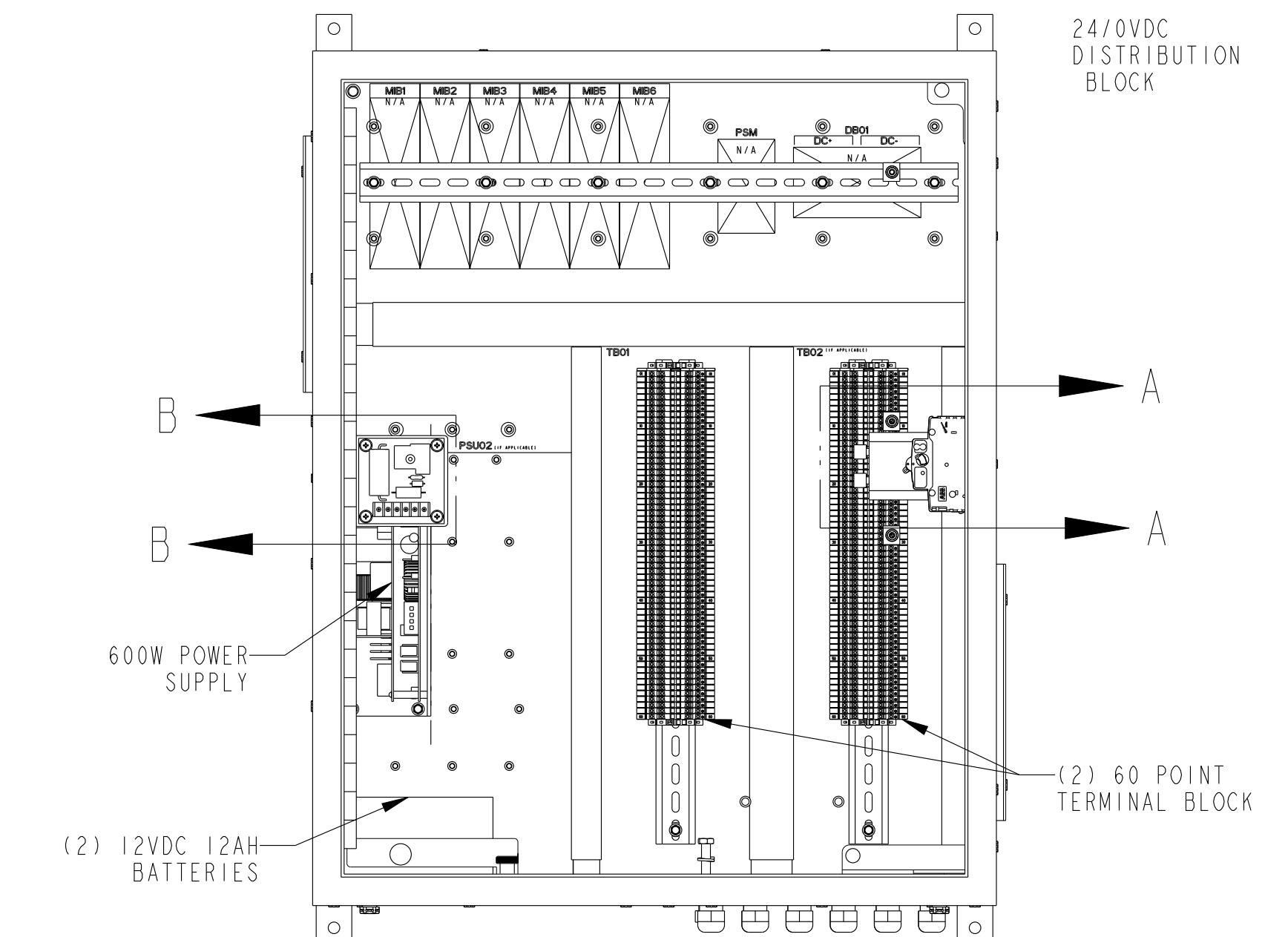
FINAL REVIEW		REVISIONS			
CLN	JQ	REV.	ECO	ENG	DES
VX		A	607184	GRS	4-25-23

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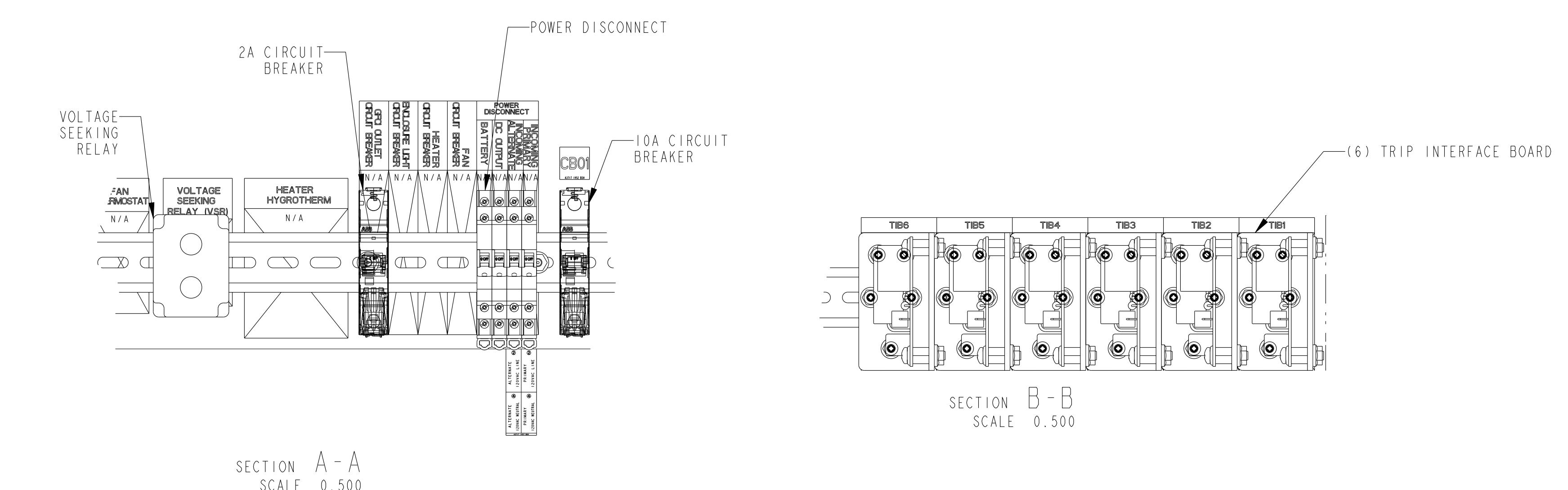
Dwg. No.: DM80C LLFF AJO



FRONT VIEW  
(DOOR HIDDEN FOR CLARITY)



FRONT VIEW  
(DOOR AND SWING FRAME HIDDEN FOR CLARITY)



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CAT. NO.:	PLT42-376-12-9FBVU	
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APPR BY:	JQ	
DRAWING NO.:	DM80C LLFF AJO	
REV:	A	
DATE:	Feb-22-23	
DATE:	Feb-22-23	
SCALE:	3 of 3	

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