



LINCOLN ELECTRIC PRODUCTS CO., INC.

EV-2S 2000A

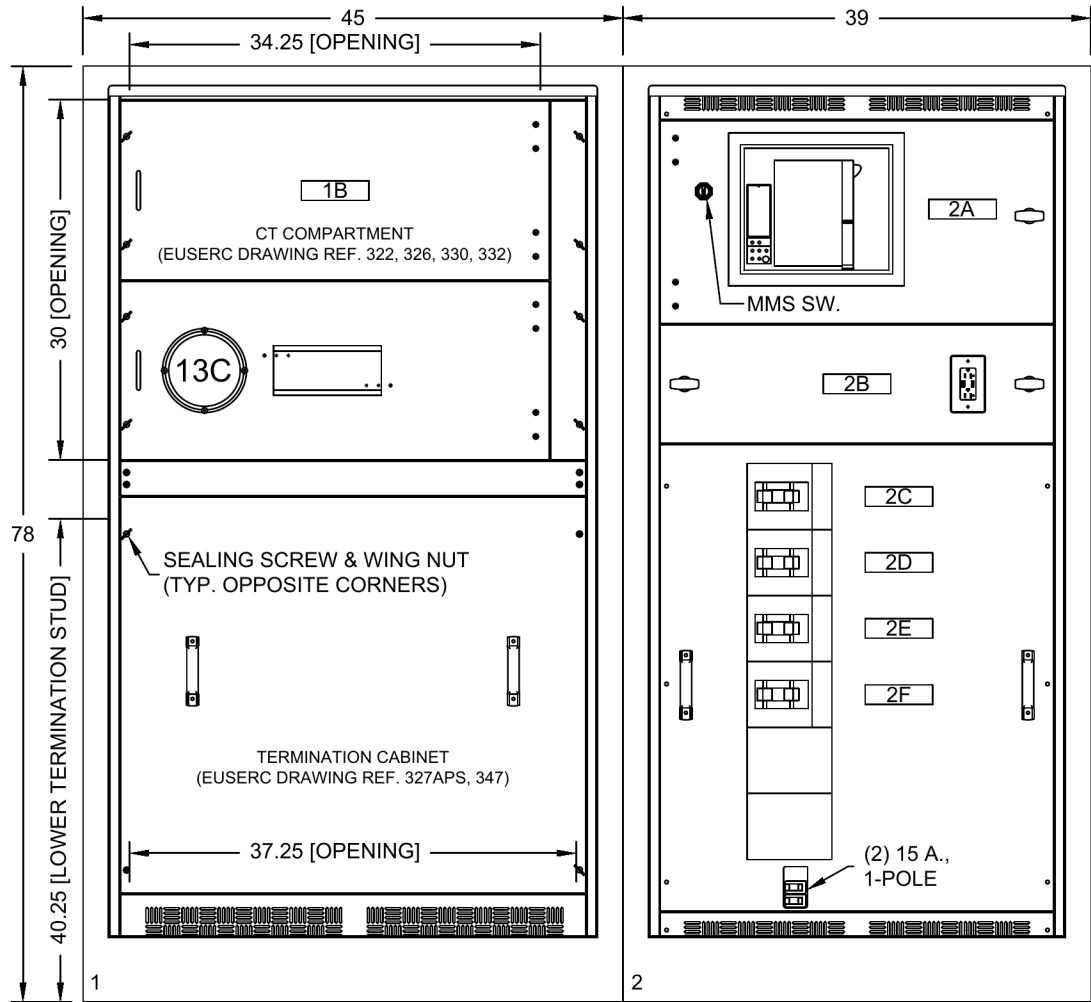
Inventory serial: 27308

Drawing/Part:		Qty.	Spec section:
Number	Rev.		Description of material being submitted:
	0	-	EV-2 Drawing

NOTES:

1. This submittal represents Lincoln Electric's interpretation of the contract drawings provided. It is the responsibility of the electrical contractor and consulting engineer to verify this submittal for accuracy. Any deviation not indicated on the contract drawings will incur additional charges.
2. The customer must return the approved submittal accompanied by a written release to proceed with manufacturing and delivery of the included equipment.

BIG BEND ELECTRICAL COOPERATIVE		
DRAWING CONTENT	BBEC REF.	EUSERC REF.
CT COMPARTMENT	-	322
SERVICE SECTION	-	326
BUS UNITS & CT LINK	-	330
COMPARTMENT DOORS	-	332
TERMINATION CABINET	-	327
TERMINATION FACILITIES	-	347
OUTDOOR ENCLOSURE	-	354



FRONT VIEW
(SHOWN WITHOUT DOORS)

PRODUCT DESCRIPTION & RATINGS:

PRODUCT TYPE EV-2 (SERVICE SWITCHBOARD)

- LEVEL-3 CHARGING

UTILITY INFORMATION [BIG BEND ELECTRICAL COOPERATIVE (EUSERC)]

- METER BEFORE DISCONNECT (HOT SEQUENCE)

POWER SYSTEM DATA [INCOMING SERVICE]

- SECTION 1 (BOTTOM FEED)

BUS SYSTEM DATA

- SILVER PLATED COPPER MAIN BUS

- DENSITY RATED AT 1000A PER SQUARE INCH

- 98% CONDUCTIVITY RATED IN ACCORDANCE w/ UL891

ENCLOSURE DATA

- CODE GAUGE, FORMED STEEL COVERS & DOORS

- ENCLOSURE SHALL CONFORM TO INGRESS PROTECTION IN

ACCORDANCE WITH A TYPE-3R RATING.

- EXTERIOR HARDWARE TO BE TAMPER-RESISTANT S.S. SCREWS.

- DOOR HANDLES ARE EQUIPPED WITH PADLOCK HASP.

- FINISH SHALL BE: ☒ WHITE (STANDARD) ☐ GRAY ☐ GREEN

- FRONT ACCESSIBLE ONLY

CODE STANDARDS

- UL891

NAMEPLATES

- LAMICOID TYPE, WHITE w/BLACK LETTERS.

ACCESSORIES

- ENCLOSURE HEATERS W/ HYGROSTAT CONTROL

- SERVICE DISCONNECT GROUND FAULT PROTECTION PER N.E.C. 230.95.

REFERENCES:

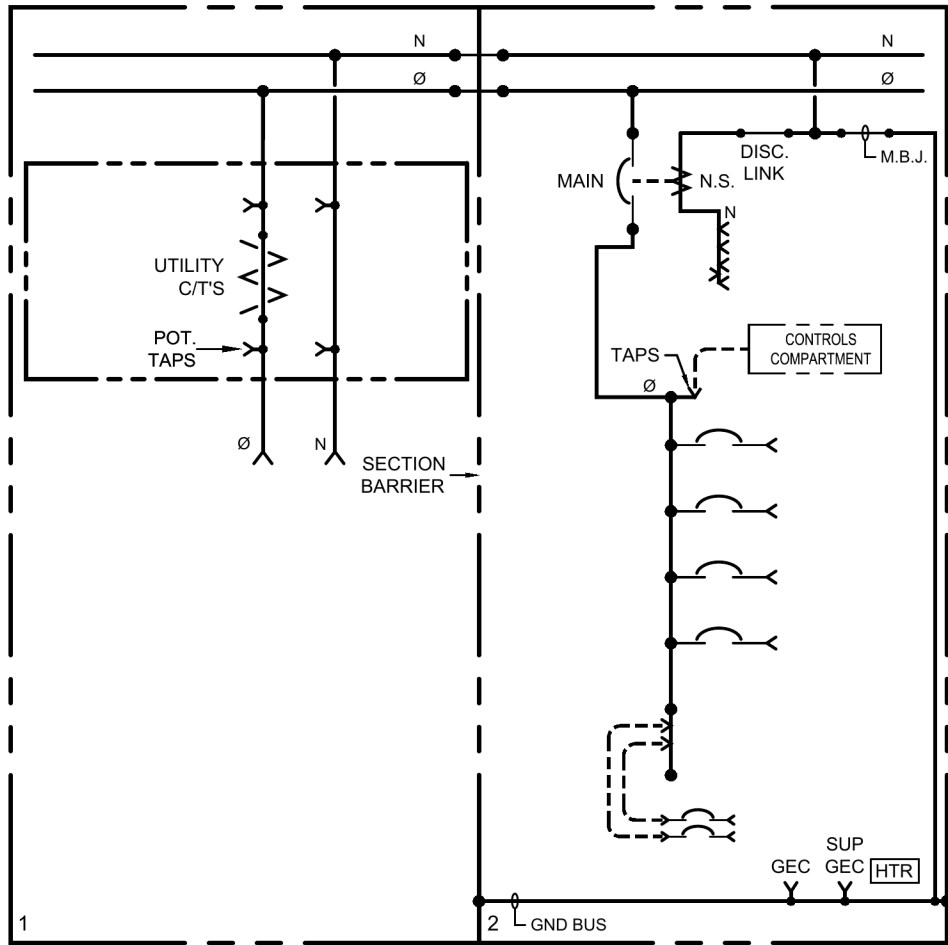
- FOR NAMEPLATE DESIGNATIONS SEE 'SWITCHBOARD SCHEDULE' SHT-03



LINCOLN ELECTRIC
PRODUCTS CO., INC.

DRAWING TITLE		EQUIPMENT DESIGNATION				
FRONT VIEW		EV-2				
SHORT CIRCUIT RATING	VOLTAGE	AMPERAGE	SYSTEM	BUS MATERIAL	ENCLOSURE	REV
65kA. SYM. RMS	480Y/277V AC	2000A	3 ϕ , 4W	COPPER	TYPE-3R	0

SHEET NUMBER
1 OF 6



----- FACTORY WIRED

REFERENCES:

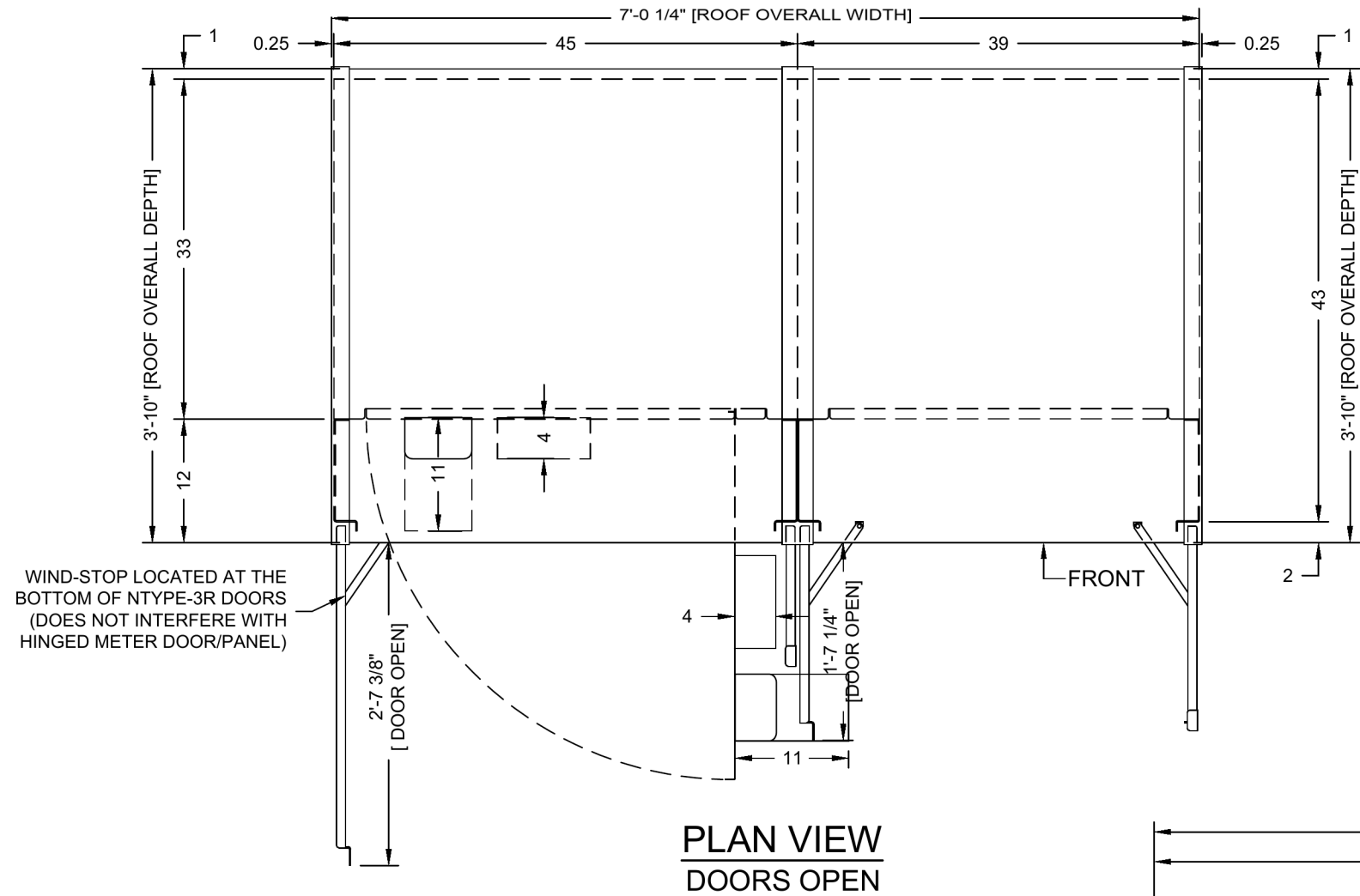
- FOR CONTROLS COMPARTMENT DETAILS SEE SHT-06



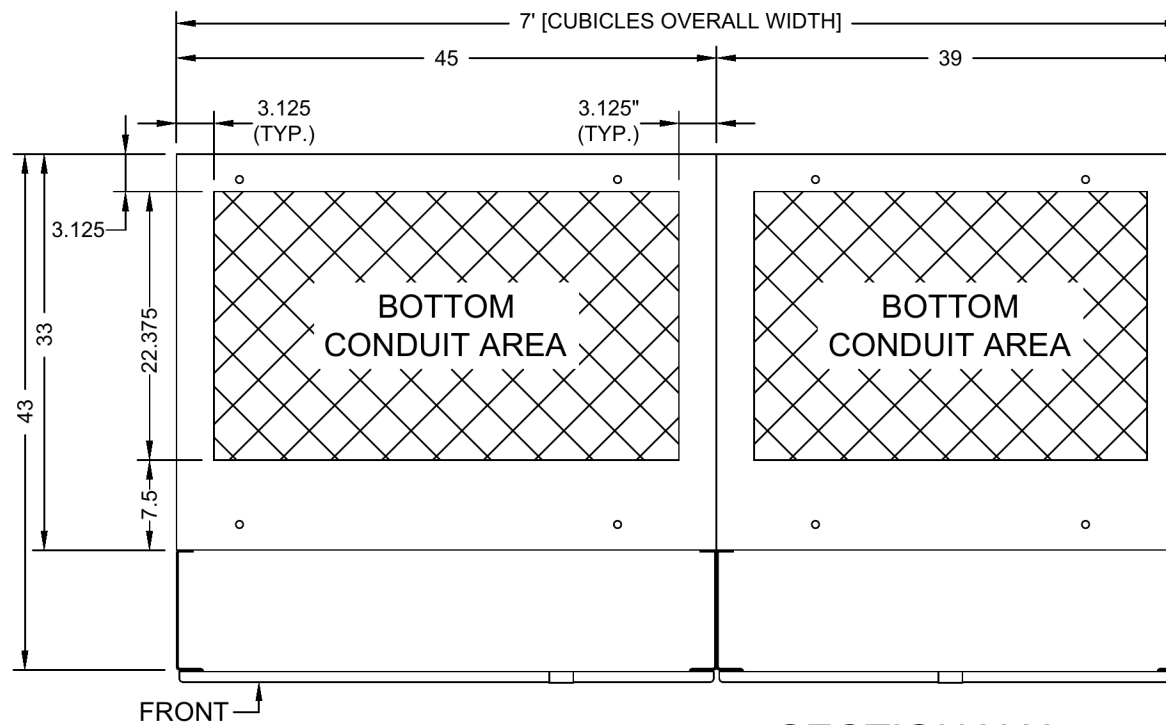
LINCOLN ELECTRIC
PRODUCTS CO., INC.

DRAWING TITLE		EQUIPMENT DESIGNATION					SHEET NUMBER
ONE-LINE DIAGRAM		EV-2					2 OF 6
SHORT CIRCUIT RATING	VOLTAGE	AMPERAGE	SYSTEM	BUS MATERIAL	ENCLOSURE	REV	
65kA. SYM. RMS	480Y/277V AC	2000A	3 ϕ , 4W	COPPER	TYPE-3R	0	

SWITCHBOARD SCHEDULE															
CUB. LOCN.	DESIGNATION	DEVICE MANUFACTURER	FRAME RATING	TRIP RATING/ TYPE	# OF POLES	DEVICE CAT. NO.	LUG INFORMATION						CONDUCTOR MATERIAL	CABLE ENTRY	
							QTY	PHASES	QTY	NEUTRAL	QTY	GROUND			
1	INCOMING	-	-	-	-	-	5	TERMINATION STUDS PER EUSERC DWG. 347			-	-	-	BOTTOM	- PROVISIONS FOR INSTALLING UTILITY LUGS
1A	SERVICE SWITCHBOARD 2000A., 3Ø, 4W., 480Y/277V														
1B	2000A. EUSERC (ARIZONA PUBLIC SERVICE) C/T COMPT.	-	-	-	-	LEPCO-FOX-MTC-HS	-	-	-	-	-	-	BUS CONNECTED	-	- C/T'S SUPPLIED & WIRED BY UTILITY
2	G.E.C.	-	-	-	-	-	-	-	-	-	2	(1) #6-350 KCMIL	COPPER	BOTTOM	-
2A	MAIN SERVICE DISCONNECT	SCHNEIDER	2000/3 'MTZ'	1200A LSIG	3	EBGKGABABNNNNNNNNNN NNNNWNNNENNNNCNNNNNN	-	-	-	-	-	-	BUS CONNECTED	-	- 100% RATED - ERMS (MAINTENANCE MODE SWITCH) - PADLOCK HASP - DOOR ESCUTCHEON - NEUTRAL SENSOR (CAT. #: LV834035SP)
2B	CONTROLS COMPARTMENT	FACTORY WIRED													-
2C	CHARGING CABINET	SCHNEIDER	600/3	300A	3	LJP36600U31XYP	1	(2) #2/0-500 KCMIL	2	(1) #2-600 KCMIL	2	(1) #6-350 KCMIL	ALUMINUM [CU GND]	BOTTOM	- PADLOCK HASP - MECHANICAL LUGS
2D	CHARGING CABINET	SCHNEIDER	600/3	300A	3	LJP36600U31XYP	1	(2) #2/0-500 KCMIL	2	(1) #2-600 KCMIL	2	(1) #6-350 KCMIL	ALUMINUM [CU GND]	BOTTOM	
2E	CHARGING CABINET	SCHNEIDER	600/3	300A	3	LJP36600U31XYP	1	(2) #2/0-500 KCMIL	2	(1) #2-600 KCMIL	2	(1) #6-350 KCMIL	ALUMINUM [CU GND]	BOTTOM	
2F	CHARGING CABINET	SCHNEIDER	600/3	300A	3	LJP36600U31XYP	1	(2) #2/0-500 KCMIL	2	(1) #2-600 KCMIL	2	(1) #6-350 KCMIL	ALUMINUM [CU GND]	BOTTOM	
2	SPARE	SCHNEIDER	15/1	15A	1	BJL16015	1	#14-2/0 AWG	1	#14 - 1/0 AWG	1	#14 - 1/0 AWG	ALUMINUM [CU GND]	BOTTOM	-
2	SPARE	SCHNEIDER	15/1	15A	1	BJL16015	1	#14-2/0 AWG	1	#14 - 1/0 AWG	1	#14 - 1/0 AWG	ALUMINUM [CU GND]	BOTTOM	-



**PLAN VIEW
DOORS OPEN**



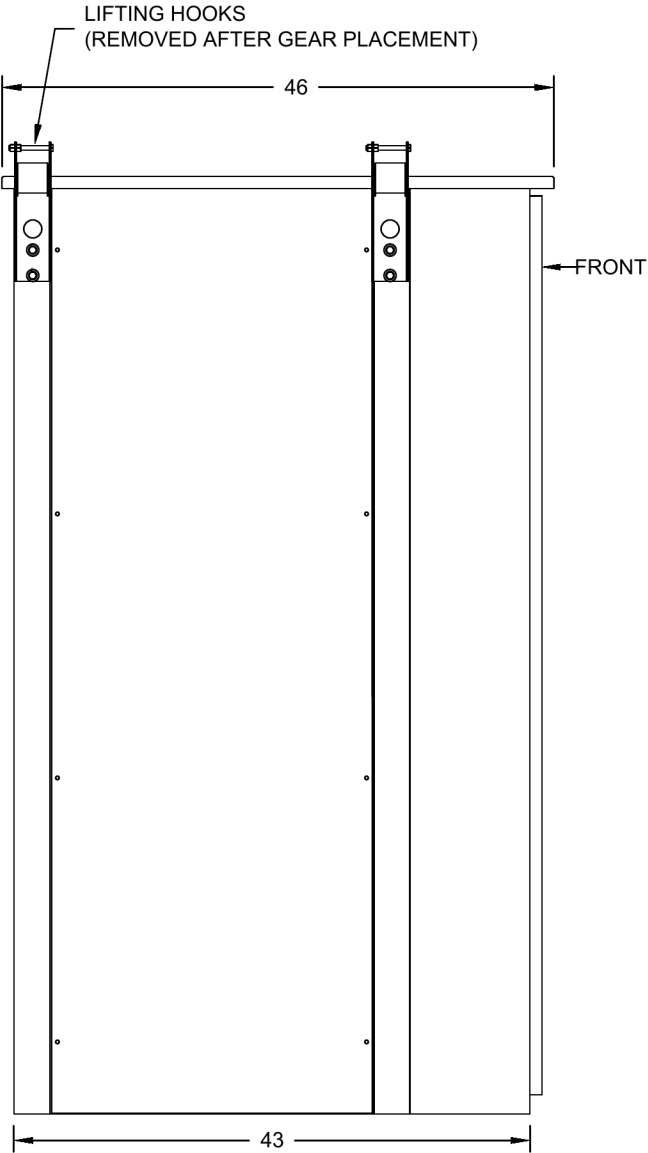
**SECTION X-X
ANCHOR BOLT LOCATIONS & BOTTOM CONDUIT AREAS**



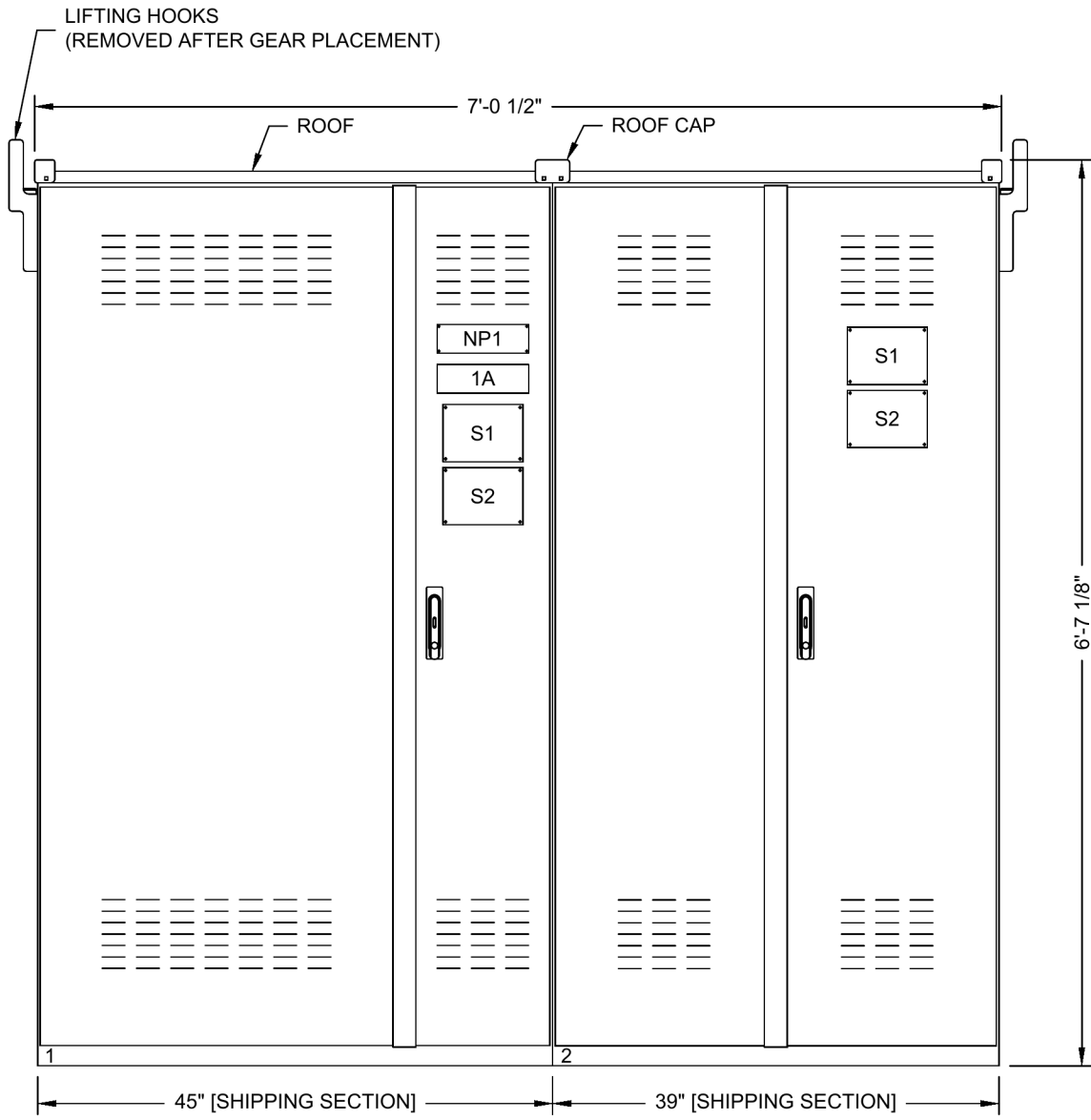
LINCOLN ELECTRIC
PRODUCTS CO., INC.

DRAWING TITLE		EQUIPMENT DESIGNATION				
PLAN VIEW		EV-2				
SHORT CIRCUIT RATING	VOLTAGE	AMPERAGE	SYSTEM	BUS MATERIAL	ENCLOSURE	REV
65kA. SYM. RMS	480Y/277V AC	2000A	3 ϕ , 4W	COPPER	TYPE-3R	0

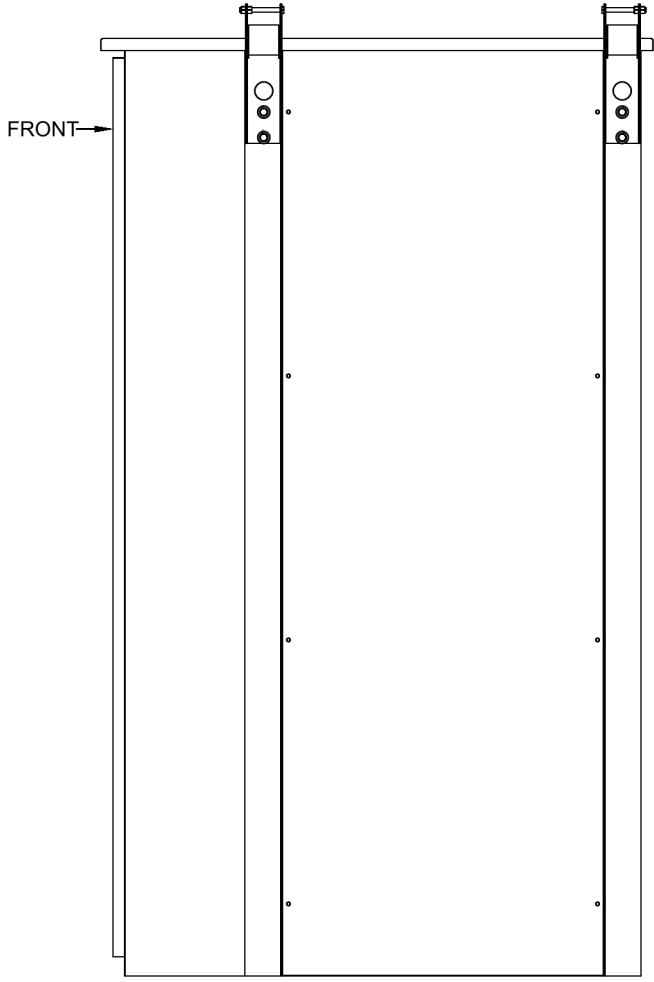
SHEET NUMBER
4 OF 6



LEFT-SIDE VIEW
(END SECTION)



FRONT VIEW
(EXTERIOR DOORS SHOWN)



RIGHT-SIDE VIEW
(END SECTION)

SIGNAGE:
NP1 -LINCOLN NAMEPLATE (2.5" x 8" ALUMINUM)
S1 -DANGER 480 VOLTS (BI-LINGUAL)
S2 -DANGER ARC FLASH (BI-LINGUAL)

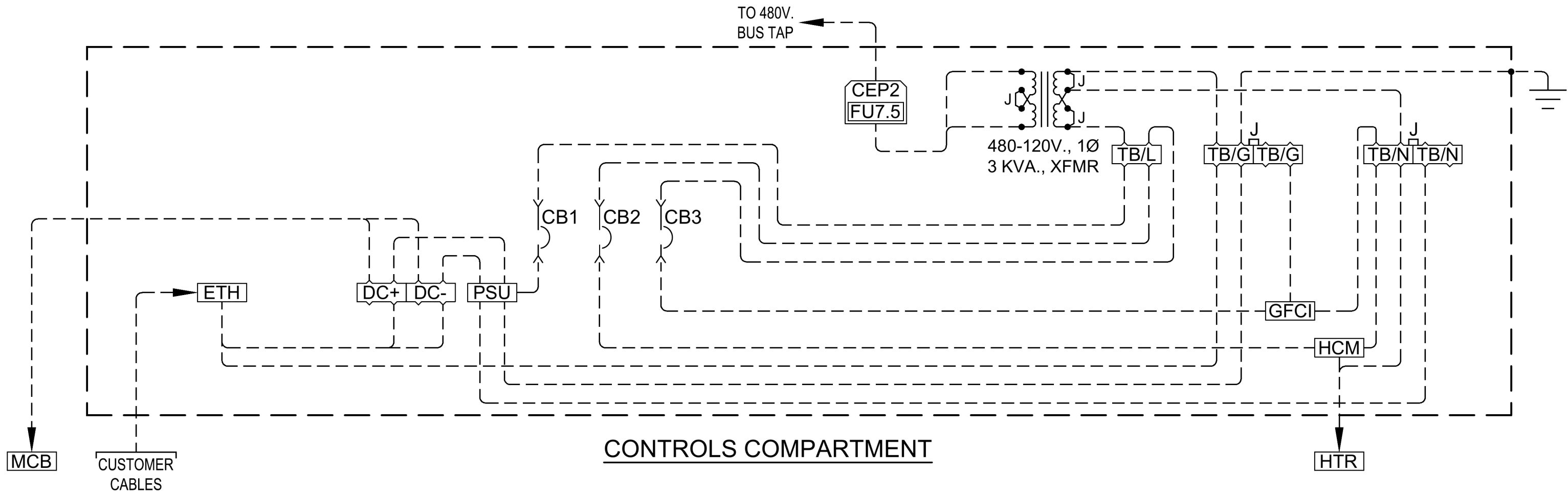
REFERENCES:
- FOR NAMEPLATE DESIGNATIONS SEE 'SWITCHBOARD SCHEDULE' SHT-03
- FOR SECTION VIEW 'X-X' SEE SHT-04



LINCOLN ELECTRIC
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DRAWING TITLE		EQUIPMENT DESIGNATION					
EXTERIOR VIEWS		EV-2					
SHORT CIRCUIT RATING	VOLTAGE	AMPERAGE	SYSTEM	BUS MATERIAL	ENCLOSURE	REV	
65kA. SYM. RMS	480Y/277V AC	2000A	3 ϕ , 4W	COPPER	TYPE-3R	0	

SHEET NUMBER
5 OF 6



THE ENCLOSED ASSEMBLY WILL BE LISTED UNDER UL891

LEGEND:

- CB1-2** -SCHNEIDER TYPE 'MULTI-9' MINIATURE CIRCUIT BREAKER:
8A. TRIP, 1-POLE, 10k A.I.C. @ 240VAC [CAT. #: M9F42108]
- CB3** -SCHNEIDER TYPE 'MULTI-9' MINIATURE CIRCUIT BREAKER:
15A. TRIP, 1-POLE, 10k A.I.C. @ 240VAC [CAT. #: M9F42115]
- CEP2** -COMPACT FUSED DISCONNECT SWITCH [MFR: MERSEN CAT. #CEP-2-30CC]
- DC-** -TERMINAL BLOCK: 24VDC (-)
- DC+** -TERMINAL BLOCK: 24VDC (+)
- FU7.5** -FUSE TYPE 'FNQ-R' [MFR: BUSSMANN CAT. #FNQ-R-7 1/2]
- ETH** -ETHERNET SWITCH

- GFCI** -15A., 120V., GROUND FAULT CIRCUIT INTERRUPTER, DUPLEX RECEPTACLE,
WITH USB-A & USB-C CHARGING PORTS.
- HCM** -HYGROSTAT [MFR: STEGO CAT. # EFR-012]
- HTR** -FINNED STRIP HEATER 250W @ 120V. [MFR: VULCAN CAT. #OSF1310-250A]
- MCB** -MAIN CIRCUIT BREAKER
- PSU** -24VDC POWER SUPPLY UNIT [MFR: MEANWELL 75W. DC [CAT. # SDR-75-24]
- TB/G** -TERMINAL BLOCK: GROUND
- TB/L** -TERMINAL BLOCK: LINE
- TB/N** -TERMINAL BLOCK: NEUTRAL



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CONTROLS COMPARTMENT		EV-2					
SHORT CIRCUIT RATING	VOLTAGE	AMPERAGE	SYSTEM	BUS MATERIAL	ENCLOSURE	REV	
65kA. SYM. RMS	480Y/277V AC	2000A	3φ, 4W	COPPER	TYPE-3R	0	

SHEET NUMBER
6 OF 6