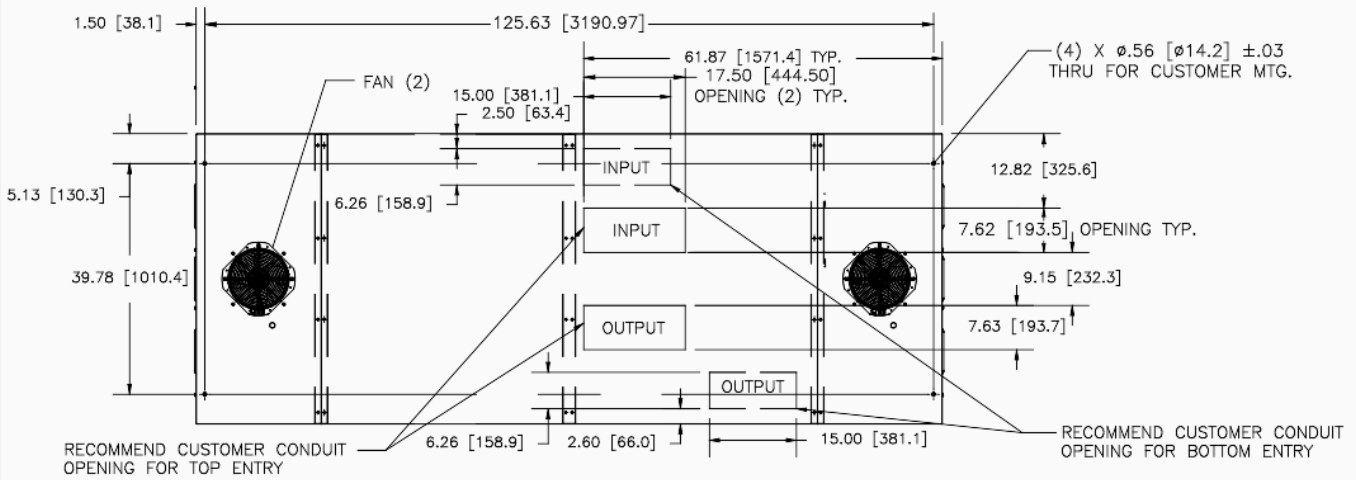
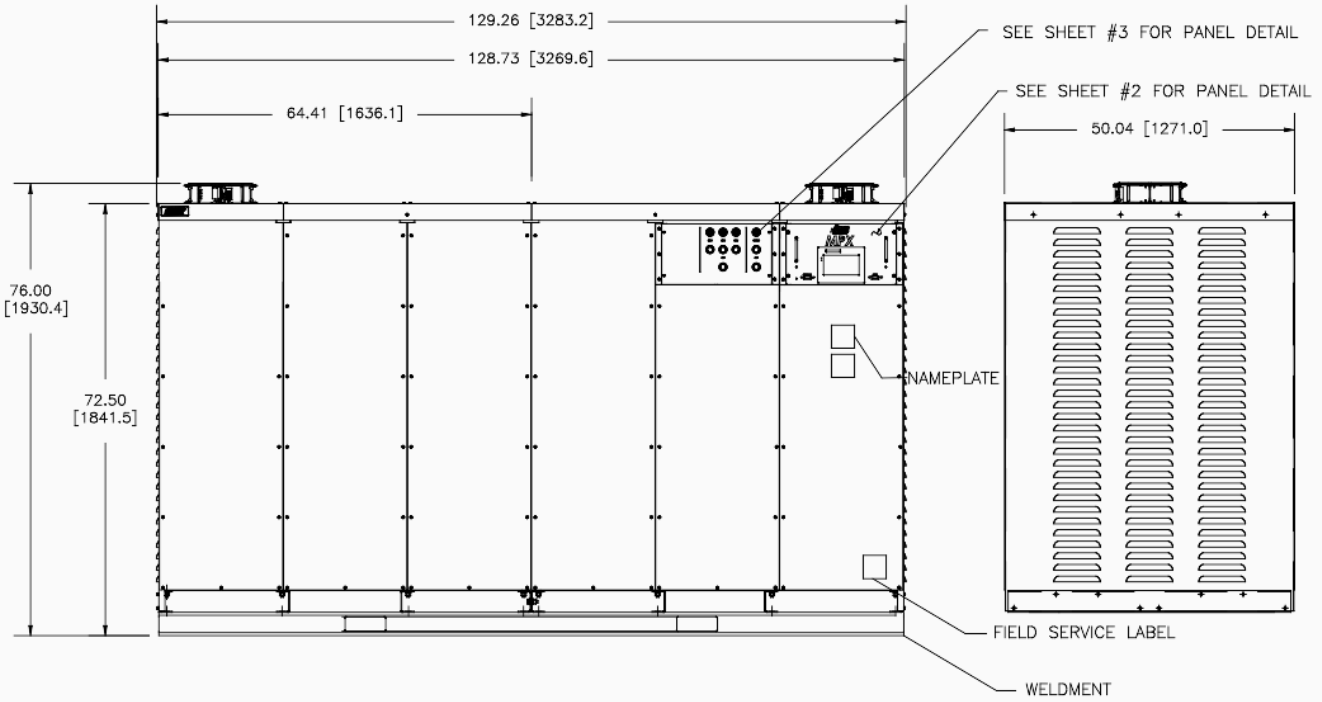
DWG. SIZE	DWG. NO.
D	094-6501

REVISIONS			
SYM.	E.C.O.	DATE	APV'D.
A	–	–	RELEASED TO PRODUCTION





THE PROVIDER POWER SYSTEM (PPS) IS HOUSED IN A NEMA 1 ENCLOSURE AND COMPRISES A MOTOR-DRIVEN VARIABLE AUTOTRANSFORMER, CONTACTOR PUSH BUTTON CONTROLS, (3) BOOST TRANSFORMERS, (3) MANUAL INTERNAL RAISE/LOWER SWITCHES, AND (2) EXHAUST FANS. THE MICROPROCESSOR CONTROLLER AUTOMATICALLY POSITIONS THE AUTOTRANSFORMER TO HOLD THE OUTPUT VOLTAGE CONSTANT. THE AUTOTRANSFORMER IS TAPPED FOR "220V, "480V" AND "575V" SELECTABLE OUTPUTS. VOLTAGE SETPOINT IS COMMON FOR ALL PHASES.

SPECIFICATIONS:

WAVEFORM DISTORTION	ZERO ADDED
FREQUENCY RANGE	47Hz TO 63Hz
INTERNAL IMPEDANCE	±1%
PHASE SHIFT	NEGLIGIBLE
EFFICIENCY	97% TYPICAL
TEMPERATURE RANGE	0°C (32°F) TO +40°C (104°F)
MOTOR SPEED	60 SECONDS

CONTROLS:
MPX CONTROLLER: THE TERMINAL IS PROVIDED FOR LOCAL CONTROL OF THE UNIT WITH AN INTERACTIVE TOUCHSCREEN DISPLAY FOR PRECISION OUTPUT VOLTAGE READINGS AND REGULATION. SEE THE MPX USER'S HANDBOOK (FORM #003-2753) FOR DETAILED INFORMATION ON EXPANDED AUTOMATION CAPABILITIES.

CONTROLLER ON/OFF SWITCH: THIS SWITCH TURNS OFF POWER TO THE MICROPROCESSOR CONTROLLER ONLY.

MOTOR ON/OFF SWITCH: THIS SWITCH TURNS OFF POWER FROM THE MICROPROCESSOR TO EACH OF THE AUTOTRANSFORMER MOTORS.

RAISE/LOWER SWITCHES: THESE SWITCHES ARE LOCATED INTERNALLY AND ARE ACCESSIBLE FROM THE FRONT VIA THE REMOVABLE ACCESS PANEL. THE SWITCHES ALLOW FOR EACH PHASE OF THE VARIABLE TRANSFORMER TO BE MANUALLY CONTROLLED INDIVIDUALLY.

WIRE RANGES FOR CUSTOMER WIRING:
INPUT/OUTPUT/NEUTRAL CONNECTIONS: INTERNAL BUS BARS PROVIDED FOR ACCOMODATING UP TO (10) TERMINALS PER PHASE WITH (2) ø.625 MTG. HOLES ON 1.75 CENTERS, FOR USE WITH 500MCM CABLE. REFERENCE TERMINAL TYPE T&B 54289 OR EQUIVALENT.

GROUND TERMINAL: INTERNAL BUS BARS PROVIDED FOR ACCOMODATING UP TO (12) TERMINALS WITH (2) ø.625 MTG. HOLES ON 1.75 CENTERS, FOR USE WITH 500 MCM CABLE. REFERENCE TERMINAL TYPE T&B #54289 OR EQUIVALENT.

THREE PHASE (3 WIRE)			
INPUT VOLTAGE (V): 480 ± 5% INPUT FREQUENCY (Hz): 60			
OUTPUT VOLTAGE TAP	OUTPUT VOLTAGE (ADJUSTABLE)	MAXIMUM OUTPUT AMPERES	MAX OUTPUT (KVA)
220	173 – 263	1200	546
480	337 – 513	1200	1066
575	428 – 652	950	1072
INPUT VOLTAGE (V): 400 ± 5% INPUT FREQUENCY (Hz): 50			
400	281 – 428	1200	890

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± DECIMALS .XX +/-.02 .XXX +/-.005 HOLES .008 ANGLES 1° DRAFT +-1/2° MATERIAL B — UNITS IN [mm] — ALL DIMENSIONS APPLY AFTER PLATING

TITLE: SPEC. CONTROL DRAWING PROVIDER POWER SYSTEM PPS-48XUE1066-C-6501

STACO ENERGY PRODUCTS CO.

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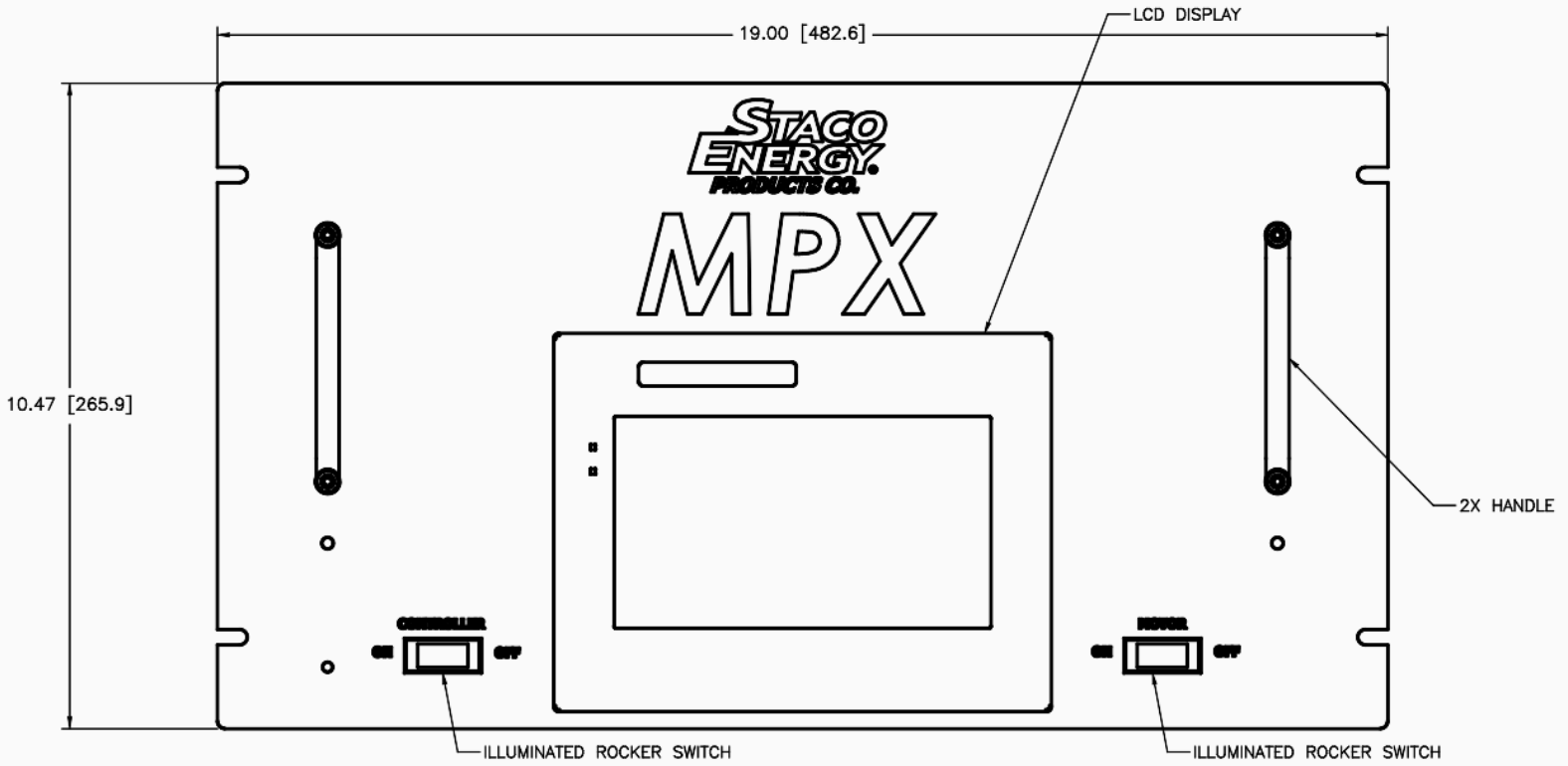
DRAWN BY A.NEICK	DATE 1/19/26	FIRST USED ON	DO NOT SCALE DWG.	
CHECKED S.LIGHTLE	DATE 2/9/26	WEIGHT APPROX.	CAGE CODE 83006	DWG. SIZE D — DWG. NO. 094-6501
ENGINEER L.BRAGG	DATE 2/19/26	SCALE NA	SHEET 1 OF 4	

SIZE	DWG. NO.
D	094-6501

REVISIONS			
SYM.	E.C.O.	DATE	APVD.
A	RELEASED TO PRODUCTION		



UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± DECIMALS .XX .XXX / HOLES .XX / ANGLES 1° / ENTIRE 1-1/2"

MATERIAL:

UNITS: in [mm]

ALL DIMENSIONS ARE AFTER PLATING

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TITLE: SPEC. CONTROL DRAWING PROVIDER POWER SYSTEM
PPS-48XUE1066-C-6501

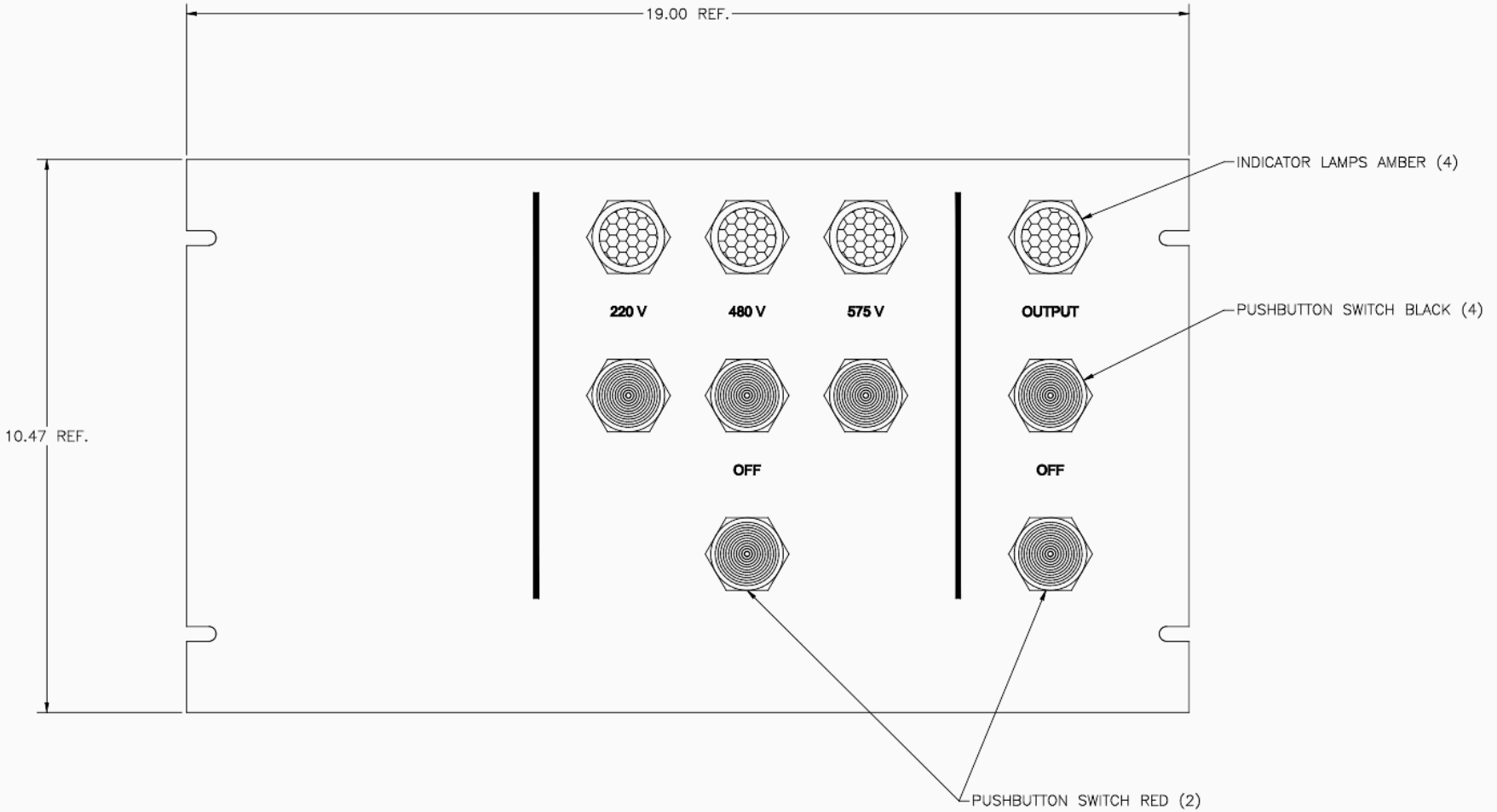
DRAWN BY: A.NEICK	DATE: 1/19/26	FIRST USED ON	DO NOT SCALE DWG.
CHECKED: B.LIGHTLE	DATE: 2/9/26	WEIGHT APPROX.	CAGE CODE: 83005
ENGINEER: L.BRAGG	DATE: 2/19/26	SCALE: NA	SHEET 2 OF 4

STACO ENERGY. PRODUCTS CO.
A Powerwise Group Company

SIZE	DWG. NO.
D	094-6501

DWG. SIZE	DWG. NO.
D	094-6501

REVISIONS			
SYM.	E.C.O.	DATE	APVD.
A	RELEASED TO PRODUCTION		



UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± DECIMALS .XX .010 .XXX .005; HOLES .005; ANGLES 1°; DRAFT 1-1/2°. MATERIAL: UNITS IN [mm]. ALL DIMENSIONS APPLY AFTER PLATING.

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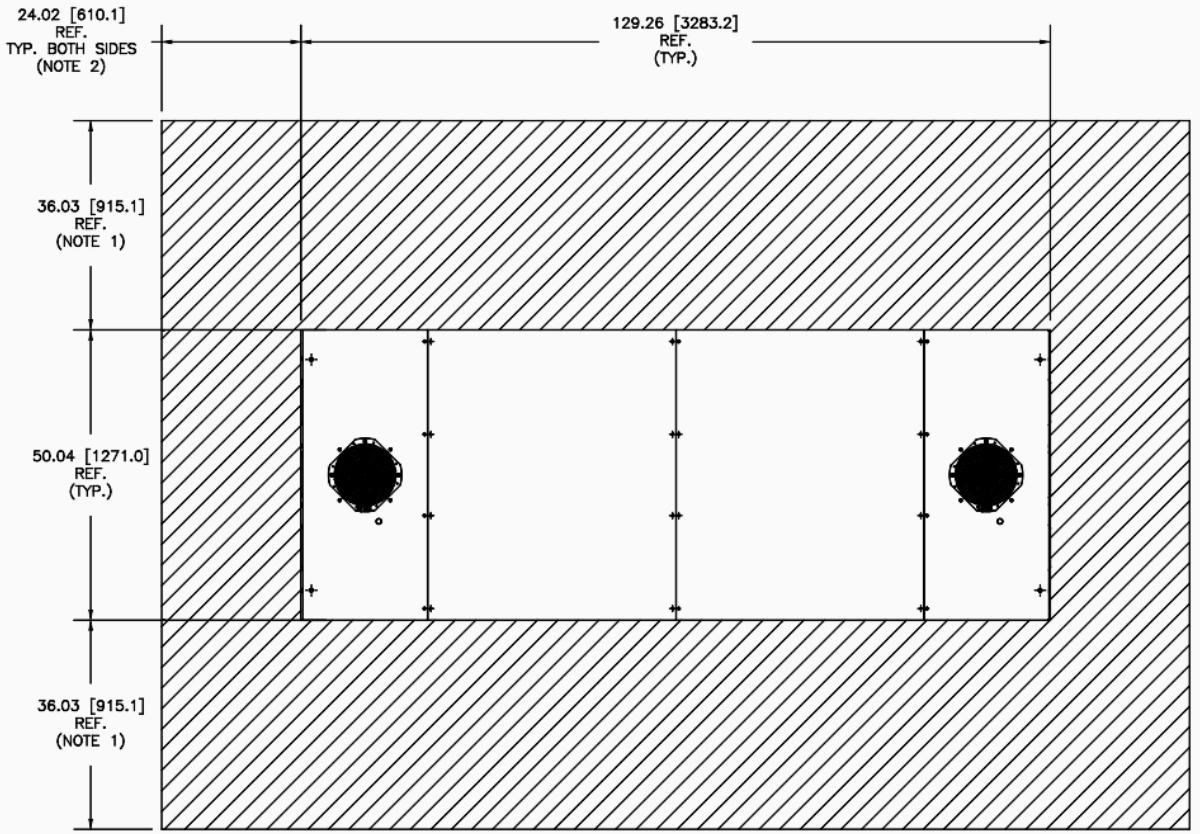
TITLE: SPEC. CONTROL DRAWING PROVIDER POWER SYSTEM PPS-48XUE1066-C-6501

DRAWN BY A.NEICK	DATE 1/19/26	FIRST USED ON	DO NOT SCALE DWG.
CHECKED B.LIGHTLE	DATE 2/9/26	WEIGHT APPROX.	CAGE CODE 83005
ENGINEER L.BRAGG	DATE 2/19/26	SCALE NA	SHEET 3 OF 4

STACO ENERGY PRODUCTS CO.

DWG. SIZE	DWG. NO.
D	094-6501



NOTES:

1. CLEARANCE REQUIRED PER CODE REQUIREMENTS. 36" IS TYPICAL REQUIREMENT, CHECK LOCAL CODES AS REQUIRED. 24" MINIMUM TO FACILITATE FUSE AND BRUSH REPLACEMENT.
2. CLEARANCE REQUIRED FOR COOLING 24" IS RECOMMENDED.

TITLE	SPEC. CONTROL DRAWING PROVIDER POWER SYSTEM PPS-48XUE1066-C-6501
DRAWN BY	A.NEICK 1/19/26
CHECKED	B.HIGHTLE 2/9/28
ENGINEER	L.BRAGG 2/19/26
SCALE	NA
SHEET	4 OF 4
SIZE	D
DWG. NO.	094-6

REVISIONS		
SYM.	E.C.O.	DATE
A		RELEASED TO PR