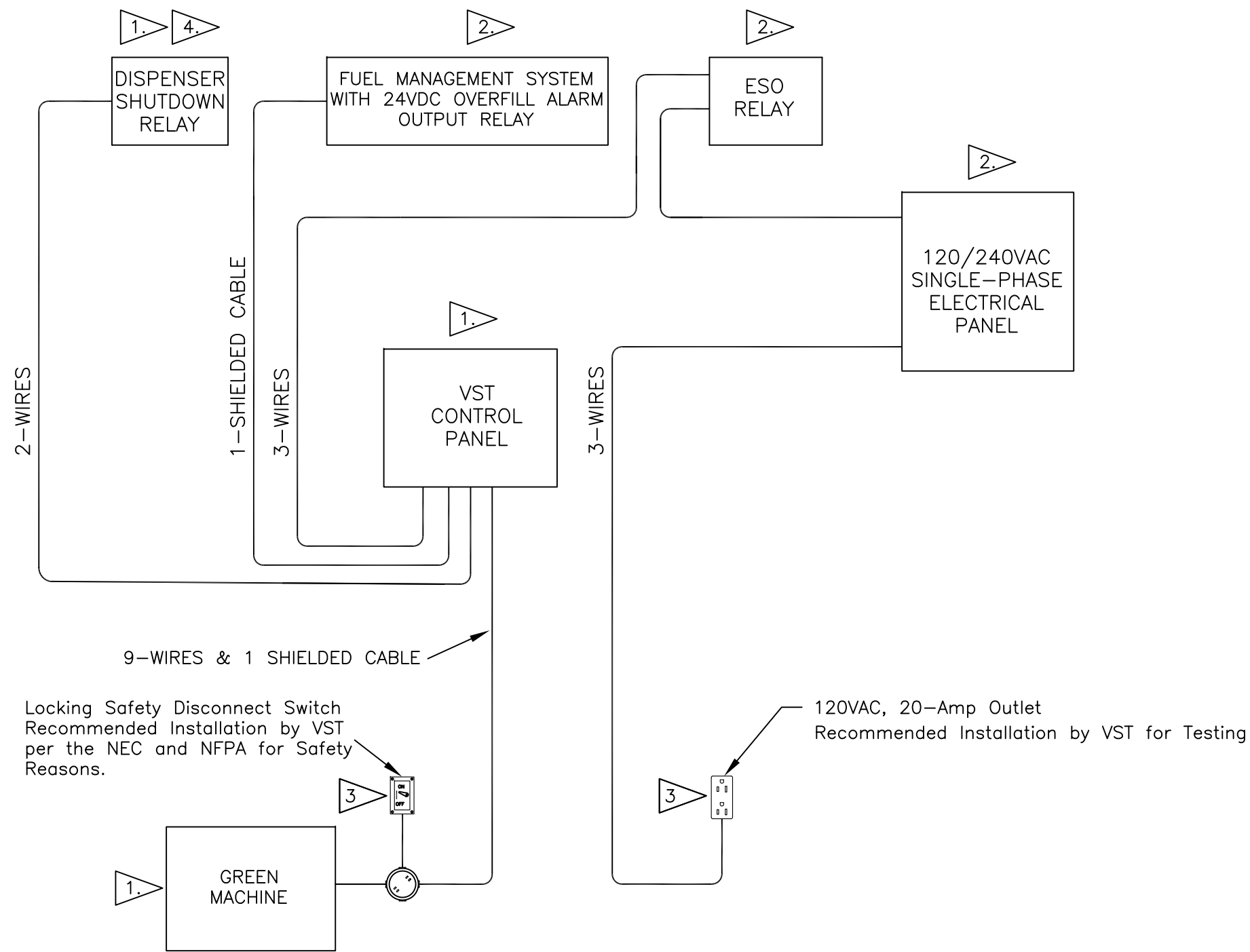


DRAWING LIST

SHT	DESCRIPTION
1	TITLE SHEET.
2	ELECTRICAL OVERVIEW – ESO RELAY WIRING.
3	CONTROL PANEL FIELD WIRING – ESO RELAY WIRING.
4	CONTROL PANEL FIELD WIRING – COMPONENT CONNECTIONS.
5	DISPENSER SHUTDOWN RELAY CIRCUIT COMPONENTS.
6	DISPENSER SHUTDOWN RELAY CIRCUIT WIRING DIAGRAM.
7	GREEN MACHINE JUNCTION BOX FIELD WIRING DIAGRAM.
8	PRESSURE SENSOR WIRING DIAGRAM.
9	VACUUM PUMP MOTOR WIRING DIAGRAM.
10	WIRING CONNECTIONS.

ECN	DESCRIPTION	RELEASED
2502	PER EC	02/23/24

DRAWN BY P. ELAM CHECKED BY R. GRANTHAM APPROVED BY G. WALKER	DATE 01/10/24 DATE 02/23/24 DATE 02/23/24	TITLE INSTALLATION DRAWING GREEN MACHINE – GEN 3  Vapor Systems Technologies, Inc. Springboro, Ohio 45066 www.vsthose.com	DWG NO. 5790-002	REV R
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			SHEET NO. 1 OF 10	



NOTES:

- 1. ITEM ARE SUPPLIED BY VST, INC.
- 2. ITEM ARE EXISTING AT GDF SITE LOCATION.
- 3. ITEM ARE SUPPLIED BY CONTRACTOR.
- 4. ITEM IS FOR CS8A AND CS12A GREEN MACHINES ONLY.
- 5. THE STATION EMERGENCY SHUT-OFF (ESO) RELAY SUPPLIES POWER TO THE VST CONTROL PANEL 3-WIRES).
- 6. THE ESO RELAY, WHEN ACTIVATED, WILL TURN OFF POWER TO THE VST CONTROL PANEL.
- 7. THE OVERFILL OUTPUT RELAY WILL TURN OFF THE GREEN MACHINE WHEN AN OVERFILL OCCURS (2-WIRES).

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Vapor Systems Technologies, Inc. Springboro, Ohio 45066 www.vstthose.com		



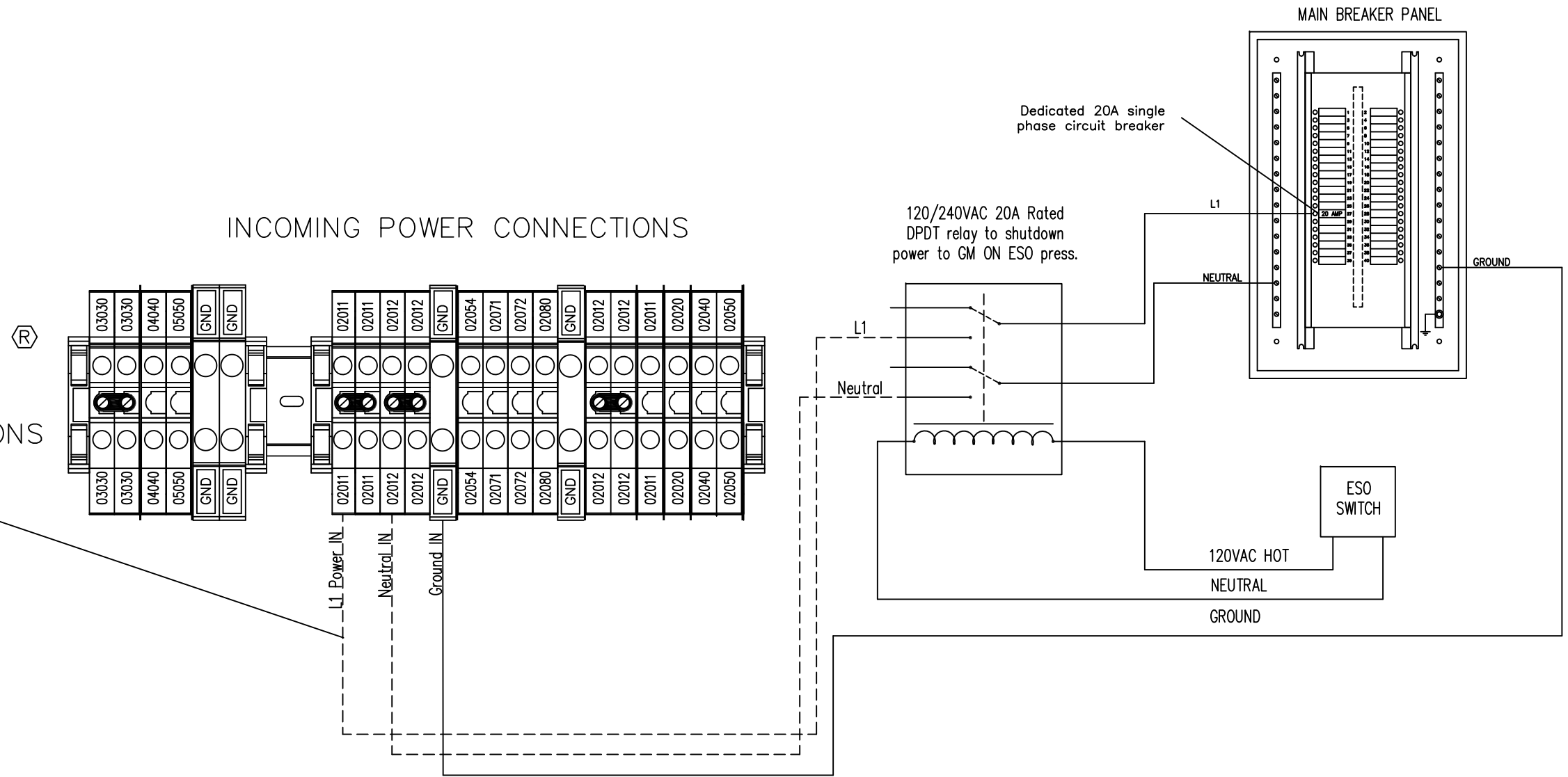
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SHEET NO. 2 OF 10

BOTTOM OF PANEL FOR
FIELD WIRING CONNECTIONS

FIELD WIRING FROM THE MAIN
ELECTRICAL DISTRIBUTION PANEL TO THE
CONTROL PANEL TERMINAL BLOCKS

INCOMING POWER CONNECTIONS



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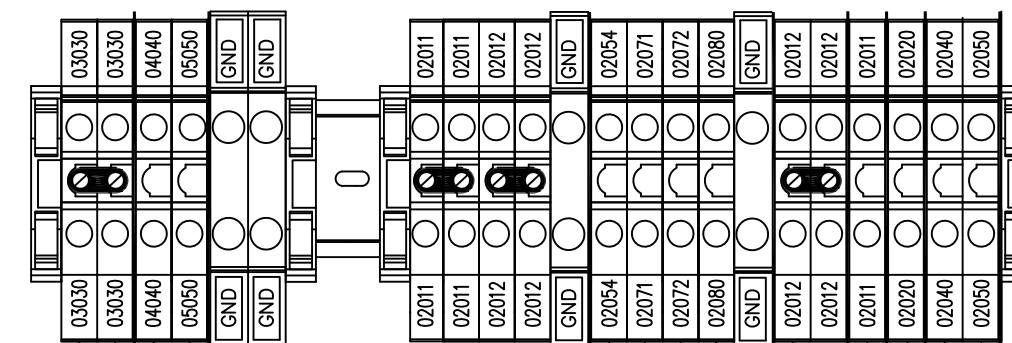


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CONTROL PANEL CONNECTIONS

CONNECTING

- * GREEN MACHINE INTERNAL JUNCTION BOX
- * PRESSURE SENSOR
- * SAFETY DISCONNECT SWITCH
- * OVERFILL ALARM RELAY
- * 72-HOUR STATION SHUTDOWN ALARM RELAY



FIELD WIRING FROM THE CONTROL PANEL TERMINAL BLOCKS

AT THE GREEN MACHINE FIELD WIRING CONNECTIONS

SHIELDED CABLE
GROUND SHIELD AT GM CONTROL PANEL SIDE

PRESSURE SENSOR CABLE

24VDC (+) 03030
SHIELD GROUND
4-20 mA SIGNAL (IN) 04040

GREEN MACHINE INTERNAL JUNCTION BOX

VAC PUMP MOTOR (120VAC HOT) 02054
V1 VALVES (120VAC HOT) 02071
V2 VALVES (120VAC HOT) 02072
V5 VALVE (120VAC HOT) 02080
GROUND
NEUTRAL 02012

SAFETY DISCONNECT ON/OFF SWITCH (LOCATED AT GM)

120VAC HOT 02011
120VAC SWITCH LEG 02020
GROUND

SHUTDOWN ALARM FIELD WIRING CONNECTIONS (INSIDE THE DATA HUT)

120VAC EXTERNAL POWER

SHUTDOWN ALARM NEUTRAL

SHUTDOWN ALARM 02040

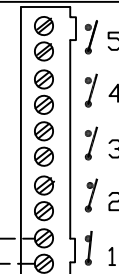
Dispenser Shutdown Relay

SUBMERSIBLE TURBINE PUMPS DISPENSER SHUTDOWN RELAY COIL (HOOK RELAY)

OVERFILL FIELD WIRING CONNECTIONS (INSIDE THE DATA HUT)

Maximum Relay Contact Rating:
120/240VAC 5A, 30VDC 5A
Fuse Ratings 5A, 250 VAC,
Type T (Slo-Blo)

OVERFILL SIGNAL 05050
OVERFILL 24VDC (+) 03030

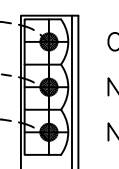


OVERFILL ALARM RELAY, TYPE 1

- OR -

OVERFILL SIGNAL 05050

OVERFILL 24VDC (+) 03030



OVERFILL ALARM RELAY, TYPE 2

SHIELDED CABLE
GROUND SHIELD AT GM CONTROL PANEL SIDE

NOTES:

1. ITEM IS FOR CS8A and CS12A GREEN MACHINES ONLY.

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CHECKED BY R. GRANTHAM	DATE 02/23/24
APPROVED BY G. WALKER	DATE 02/23/24

TITLE
INSTALLATION DRAWING
GREEN MACHINE - GEN 3



Vapor Systems Technologies, Inc.
Springboro, Ohio 45066 www.vsthoose.com



DWG NO. 5790-002	REV R
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SCALE: N/A

TITLE: GREEN MACHINE - GEN 3

FILENAME: 5790-002

SHEET NO.
4 OF 10

TO THE VACUUM PUMP MOTOR
UL APPROVED CLASS 1, DIV. II
120VAC, 1Ø, 60Hz, 1/2Hp

V1 VALVE
120VAC

V2 VALVE
120VAC

V1 VALVE
120VAC

V2 VALVE
120VAC

V5 VALVE
120VAC

PRESSURE
SENSOR
24VDC

TO THE PRESSURE SENSOR:
UL APPROVED
24VDC, 4-20 mA OUTPUT

CORDGRIP FITTING (TYP.)

UL APPROVED METAL JUNCTION BOX (J-BOX)

EQUIPMENT GROUND

TERMINAL BLOCK
JUMPER (TYP.)

3/4" LIQUIDTIGHT CONDUIT FROM
THE 3/4" CONDUIT FITTING ON THE
GREEN MACHINE INLET CONNECTION

CONNECTION TO THE VST CONTROL PANEL

02054 VACUUM PUMP MOTOR POWER (L1)
02071 V1 CONTROL VALVES POWER (L2)
02072 V2 CONTROL VALVES POWER (L3)
02080 V5 CONTROL VALVE POWER (L4)
02012 NEUTRAL
GND GROUND 1.

PRESSURE SENSOR CABLE:

03030 SHIELD GROUND 5.
24VDC (+)
04040 4-20 mA SIGNAL (IN)

2. 2 CONDUCTOR, 18AWG, TWISTED PAIR, SHIELDED.
(SEE THE INSTALLATION MANUAL FOR DETAILS)

1. ALL CONNECTING WIRES AND THE PS
SENSOR CABLE ARE PROVIDED BY THE
CONTRACTOR.

2. BELDEN 88760 (OR EQUIVALENT).

SEE THE GREEN MACHINE INSTALLATION
AND MAINTENANCE MANUAL FOR DETAILS.

ALL FIELD WIRING MUST MEET THE NEC
AND NFPA CODE REQUIREMENTS.

5. GROUND SHIELD DRAIN WIRE AT GM
CONTROL PANEL.

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APPROVED BY G. WALKER	DATE 02/23/24

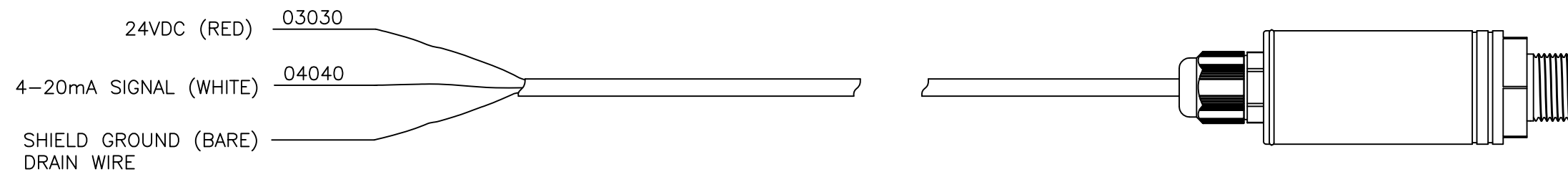
TITLE
**INSTALLATION DRAWING
GREEN MACHINE - GEN 3**

VST Vapor Systems Technologies, Inc.
Springboro, Ohio 45066 www.vsthoose.com

DWG NO. 5790-002	REV R
SHEET NO. 7 OF 10	

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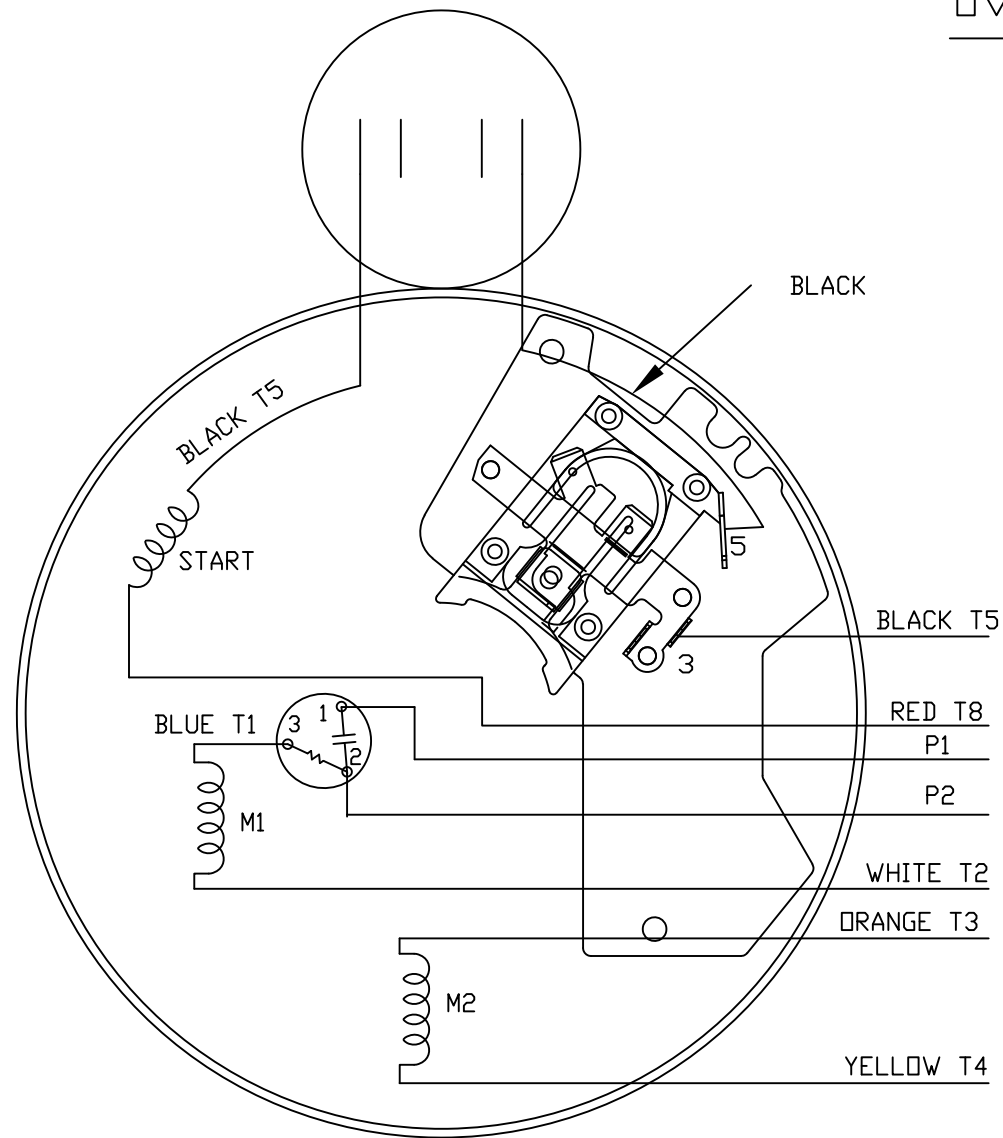


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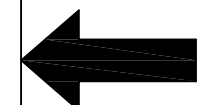
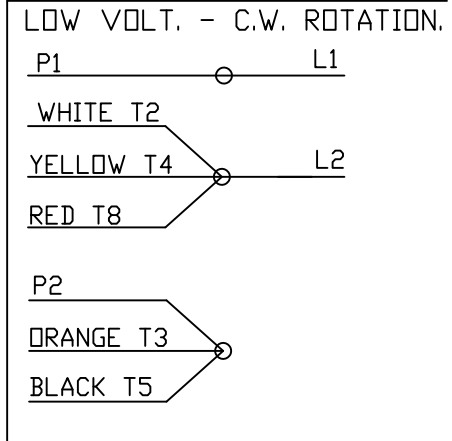
DRAWN BY P. ELAM	DATE 01/10/24	TITLE INSTALLATION DRAWING GREEN MACHINE - GEN 3	DWG NO. 5790-002	REV R
CHECKED BY R. GRANTHAM	DATE 02/23/24		 THE INFORMATION ON THIS DOCUMENT IS PROPRIETARY AND CONFIDENTIAL. IT MAY BE USED ONLY FOR THE PURPOSE FOR WHICH VAPOR SYSTEMS TECHNOLOGIES, INC. PROVIDED IT.	SHEET NO. 8 OF 10
APPROVED BY G. WALKER	DATE 02/23/24			

THERMALLY PROTECTED

DUAL VOLTAGE
CAPACITOR START
OVERLOAD SELECT ROT.



NORMAL ROTATION FOR GM IS C.W.



CAUTION:
FOR GREEN MACHINE WIRING MOTOR
REPLACEMENT.

		TOLERANCES UNLESS SPECIFIED		ELECTRIC MOTORS GEARMOTORS AND DRIVES		DRAWN	
		DEC.	INCHES			CHK	
		.X	±.1			APPD	
		.XX	±.02	TITLE CONNECTION DIAGRAM		SCALE 5=8	
		.XXX	±.005			REF	
		.XXXX	±.0005	ITEM #S FOR CS8A AND CS12A GREEN MACHINES ONLY		YMF	
NO.	REVISION	BY & DATE	CHK	ANG	FINISH	PREV	
		RFP	CAD FILE		SIZE	DRAWING NO.	PAGE OF
		DIST			A		REV. 1

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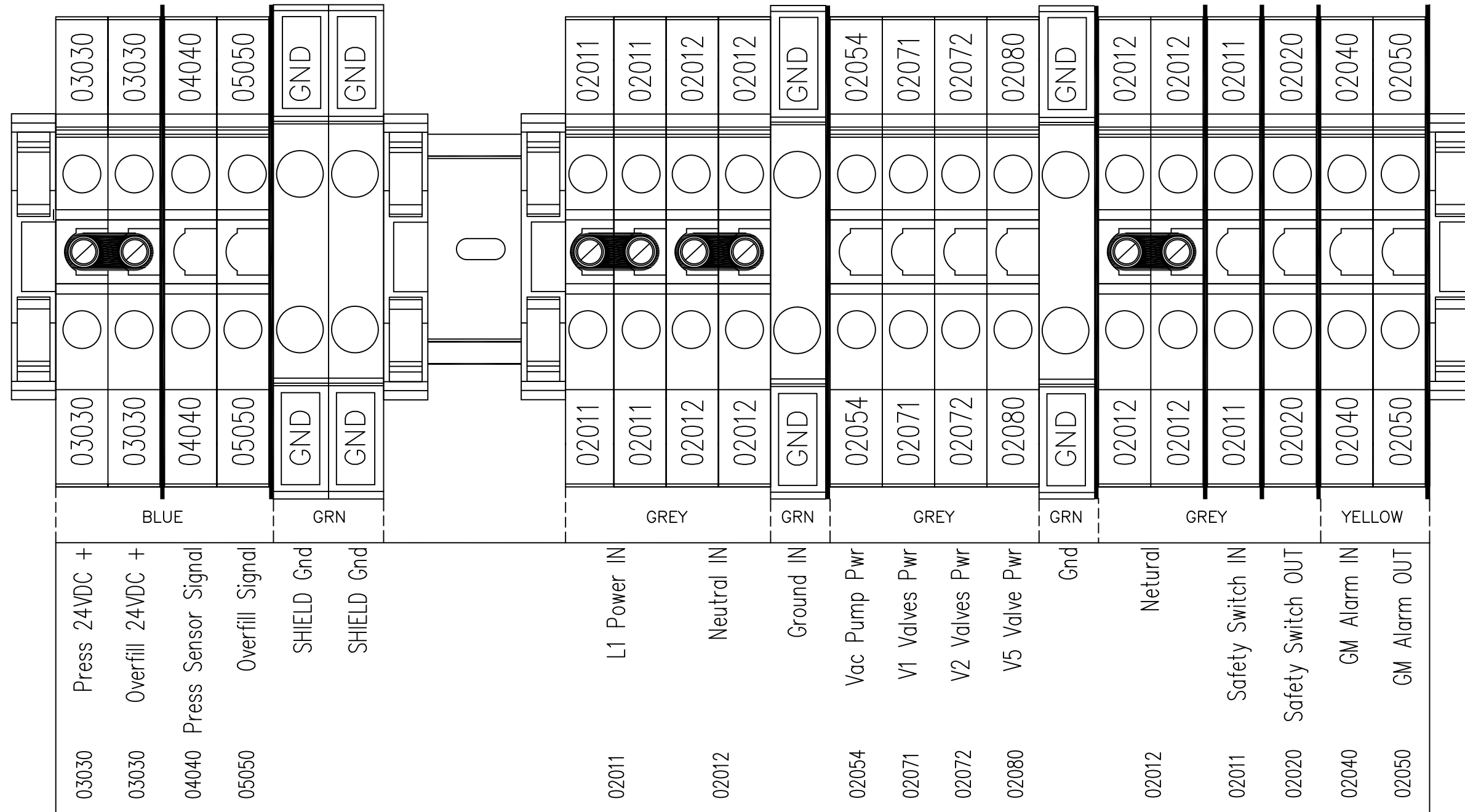
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FILENAME: 5790-002 TITLE: GREEN MACHINE - GEN 3 SCALE: N/A

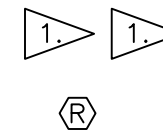
CONTROL PANEL WIRING CONNECTIONS



FIELD WIRING CONNECTIONS

NOTE:

1. ITEM IS FOR CS8A AND CS12A GREEN MACHINES ONLY.



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APPROVED BY G. WALKER	DATE 02/23/24		3RD ANGLE PROJECTION	SHEET NO. 10 OF 10