

FILENAME: 29332-431-11090-001.DWG
 PLOTTED BY: USDCHER ON: 27/09/2024 14:41

DAB2 AS BUILT ENGINEERING PACKAGE

29332-431-11090 CP1090 DOCK SORTER (SPO)

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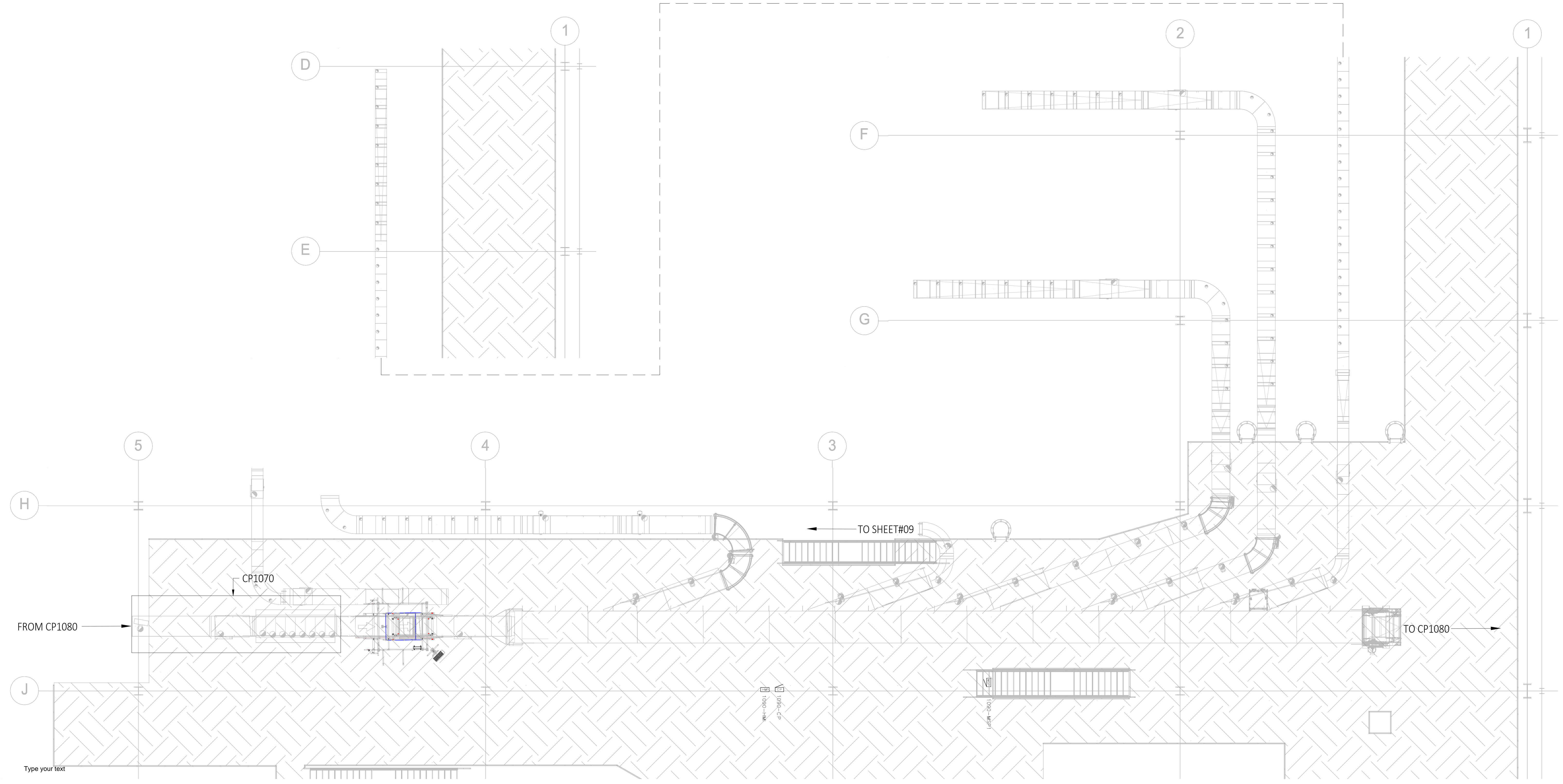
REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION							
						CUSTOMER :						
						LOCATION :						
						CUSTOMER DRAWING #: DAB2-E- - 001						
						STATUS:						
						AS BUILT						
						DRAWN : USTWILM		TITLE : CP1090 - DOCK SORTER (SPO)				
						DATE : 07/06/2023		TITLESHEET				
						SCALE : NTS		NUMBER :	29332-431-11090	SHT: 001	EN	REV.:
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT	D						C01

FILENAME: 29332-431-11090-DRAWING
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QTY	VI #	CATALOG	MFG	DESCRIPTION	QTY	VI #	CATALOG	MFG	DESCRIPTION	QTY	VI #	CATALOG	MFG	DESCRIPTION
5	-	-	-	AS01: AS-1 SPLITTER/BRIDGE	1	-	-	-	LCC05: ETHERNET SWITCH	1	-	-	-	PE08: P&F LOOSE PEC & REFLECTOR FOR CHUTES & SPO (RETROREFLECTIVE)
006002-14979	-	VAZ-2FK-G10-BRIDGE	P&F	AS-1 SPLITTER/BRIDGE	N97500-160-00001	N97500-160-00001	VI	ESW_NETWORK PANEL	006002-14880	221826 ML100-55/103/115a	ML100-55/103/115a	PEPPERL+FUCHS	RETROREFLECTIVE PHOTOEYE M8 MALE 4P 24VDC PNP RANGE 5M PIGTAIL L=300MM	
8	-	-	-	B06: BEACON AMBER	N17370-600-00001	N17370-600-00001	VI	EM MOUNTING BRACKET , M6	006002-15360	BRT-50D	BRT-50D	BANNER	REFLECTOR WITH MOUNTING STUD	
008200-12743	855E-24TL5	AB	AB	BEACON, 24V AC/DC FULL VOLTAGE, AMBER STEADY LED (SOCKET MOUNT)	1	-	-	LCC15: MOTOR STARTER PANEL (3 1734-0B85 CARDS)	N00001-24113	V31-GM-BK2M-PVC-U-V1-G	V31-GM-BK2M-PVC-U-V1-G	PEPPERL+FUCHS	CABLE M12 MALE STRAIGHT / M8 FEMALE STRAIGHT 2M	
N00001-00378	855E-BCBC	AB	AB	BEACON 50MM CONTROL TOWER BASES, SURFACE / 1/2 INCH NPT CONDUIT MOUNT	N97500-165-00002	N97500-165-00002	VI	MOTOR STARTER PANEL, 8 STARTERS, 480VAC DROP FROM RDP 3 INP & 3 OUTP CARDS	1	-	-	-	PE19: P&F OVERHEIGHT DETECTION (OHD) PEC ASSEMBLY (RETROREFLECTIVE)	
N15057-005-00001	N15057-005-00001	VI	VI	BRACKET-SHORT FOR 0.5" CONDUIT MOUNTING	5	-	-	PS001: 24-1 POWER SUPPLY SAFETY DISCONNECT PANEL	026205-381-10052	026205-381-10052	VI	VI	OVERHEIGHT DETECTION, NO PHOTOEYES	
N00001-24111	V15-G-BKSM-PVC-U	P&F	P&F	CABLE M12 MALE 4P STRAIGHT / 4 WIRE PVC 5M BLACK	N97500-195-00001	N97500-195-00001	VI	24-1 Power Supply Safety Disconnect Panel	N00001-24114	V31-GM-BKSM-PVC-U-V1-G	V31-GM-BKSM-PVC-U-V1-G	P&F	CABLE M8 FEMALE STRAIGHT M12 MALE STRAIGHT 4P PVC L=5,0M	
2	-	-	-	B09: BEACON RED AMBER	009000-03214	7000-40021-6140200	MURRELEKTRONIK	CABLE CONNECTOR M12 MALE 4P STRAIGHT / M12 FEMALE 4P STRAIGHT PVC-0B 2M BLACK	029331-069-00001	029331-069-00001	VI	VI	OVERHEIGHT DETECTION OFFSET BRACKETS	
008200-12742	855E-24TL4	AB	AB	BEACON, 24V AC/DC FULL VOLTAGE, RED STEADY LED (SOCKET MOUNT)	N17370-600-00001	N17370-600-00001	VI	EM MOUNTING BRACKET , M6	60	-	-	-	PE29: P&F 15mm DETECTION ML100 REFLECTIVE PE (RETROREFLECTIVE)	
008200-12743	855E-24TL5	AB	AB	BEACON, 24V AC/DC FULL VOLTAGE, AMBER STEADY LED (SOCKET MOUNT)	029331-073-00001	029331-073-00001	VI	CABLE GUIDING BRACKET	026205-075-00020	026205-075-00020	VI	VI	Assy Photoeye support 15mm detection	
N00001-00378	855E-BCBC	AB	AB	BEACON 50MM CONTROL TOWER BASES, SURFACE / 1/2 INCH NPT CONDUIT MOUNT	3	-	-	MS01: MOTOR STARTER DISCONNECT, NO BRAKE	N00001-24113	V31-GM-BK2M-PVC-U-V1-G	V31-GM-BK2M-PVC-U-V1-G	PEPPERL+FUCHS	CABLE M12 MALE STRAIGHT / M8 FEMALE STRAIGHT 2M	
N15057-005-00001	N15057-005-00001	VI	VI	BRACKET-SHORT FOR 0.5" CONDUIT MOUNTING	N90623-00001	EJM30850	MERSEN	DISCONNECT NON METALIC 4X, 30A, BLACK ROTARY	026205-073-00020	026205-073-00020	VI	VI	Assy Reflector support 15mm detection	
N00001-24111	V15-G-BKSM-PVC-U	P&F	P&F	CABLE M12 MALE 4P STRAIGHT / 4 WIRE PVC 5M BLACK	N00001-24111	V15-G-BKSM-PVC-U	P&F	CABLE M12 MALE 4P/WIRES 5M BLACK	8	-	-	-	SCN01: BARCODE SCANNER	
4	-	-	-	B13: BEACON RED BLUE AMBER GREEN	N90623-11001	0A1G10	ABB	AUX CONTACT N.O.	BY OTHERS	BY OTHERS	SCANNER-BY OTHERS	SCANNER-BY OTHERS	BARCODE SCANNER	
008200-12742	855E-24TL4	AB	AB	BEACON, 24V AC/DC FULL VOLTAGE, RED STEADY LED (SOCKET MOUNT)	N97500-168-00002	N97500-168-00002	VI	MOTOR CABLE HANQ8 ANGLED UL 12AWG 4 WIRE 20 FEET, WITHOUT BRAKE	11	-	-	-	SPO01: SORTER DIVERT CONTROLLER	
008200-23124	855E-24TL6	AB	AB	BEACON, 24V AC/DC FULL VOLTAGE, BLUE STEADY LED (SOCKET MOUNT)	029331-073-00001	029331-073-00001	VI	CABLE GUIDING BRACKET	BY OTHERS	BY OTHERS-SCU	VI	VI	SORT CONTROLLER FOR SPO SORTERS	
008200-12743	855E-24TL5	AB	AB	BEACON, 24V AC/DC FULL VOLTAGE, AMBER STEADY LED (SOCKET MOUNT)	3	-	-	MS02: MOTOR STARTER DISCONNECT, WITH BRAKE	2	-	-	-	SPO02: 24/48VDC POWER SUPPLY	
008200-12741	855E-24TL3	AB	AB	BEACON, 24V AC/DC FULL VOLTAGE, GREEN STEADY LED (SOCKET MOUNT)	N90623-00001	EJM30850	MERSEN	DISCONNECT NON METALIC 4X, 30A, BLACK ROTARY	N97500-161-00001	N97500-161-00001	VI	VI	24VDC & 48VDC POWER BOX	
N00001-00378	855E-BCBC	AB	AB	BEACON 50MM CONTROL TOWER BASES, SURFACE / 1/2 INCH NPT CONDUIT MOUNT	N00001-24111	V15-G-BKSM-PVC-U	P&F	CABLE M12 MALE 4P/WIRES 5M BLACK	1	-	-	-	SPO04: LONG RANGE PE EMITTER	
N15057-005-00001	N15057-005-00001	VI	VI	BRACKET-SHORT FOR 0.5" CONDUIT MOUNTING	N90623-11001	0A1G10	ABB	AUX CONTACT N.O.	009000-03216	7000-40021-6140500	MURRELEKTRONIK	MURRELEKTRONIK	CABLE M12 MALE 4P STRAIGHT / M12 FEMALE 4P STRAIGHT PVC 5M BLACK	
N00001-24111	V15-G-BKSM-PVC-U	P&F	P&F	CABLE M12 MALE 4P STRAIGHT / 4 WIRE PVC 5M BLACK	N97500-169-00002	N97500-169-00002	VI	MOTOR CABLE HANQ8 ANGLED UL 12AWG 6 WIRE 20 FEET, WITH BRAKE	029331-059-00001	029331-059-00001	VI	VI	ASSY SPO LONG RANGE PEC ASSEMBLY (INCLUDES EMITTER AND RECEIVER)	
1	-	-	-	B15: BEACON RED PURPLE BLUE AMBER GREEN	029331-073-00001	029331-073-00001	VI	CABLE GUIDING BRACKET	1	-	-	-	SPO05: LONG RANGE PE RECEIVER	
008200-12742	855E-24TL4	AB	AB	BEACON, 24V AC/DC FULL VOLTAGE, RED STEADY LED (SOCKET MOUNT)	1	-	-	NORD1: NORDAC LINK 7.5KW VFD	009000-03216	7000-40021-6140500	MURRELEKTRONIK	MURRELEKTRONIK	CABLE M12 MALE 4P STRAIGHT / M12 FEMALE 4P STRAIGHT PVC 5M BLACK	
000000-06591	855E-24TL9	AB	AB	BEACON, 24V AC/DC FULL VOLTAGE, MAGENTA STEADY LED (SOCKET MOUNT)	N00001-24070	70659 SK 260E-FDS-751-340-A-VSA	NORD	LMS-V NORDAC LINK 7.5KW ETHERNET I/P + STO + HTL + SYSTEMBUS	1	-	-	-	SPO07: SPO REMOTE RECEIVER	
008200-23124	855E-24TL6	AB	AB	BEACON, 24V AC/DC FULL VOLTAGE, BLUE STEADY LED (SOCKET MOUNT)	002036-814-25000	002036-814-25000	LAPP	POWER CABLE 3PHASE, OPEN END / STRAIGHT (HANQ4/2)	BY OTHERS	UDREA400-011	JAY ELECTRONIQUE	JAY ELECTRONIQUE	REMOTE RECEIVER	
008200-12743	855E-24TL5	AB	AB	BEACON, 24V AC/DC FULL VOLTAGE, AMBER STEADY LED (SOCKET MOUNT)	060027-052-25000	060027-052-25000	LAPP	MOTOR CABLE LMS-V 4.0 STRAIGHT / ANGLED	BY OTHERS	UDWR38	JAY ELECTRONIQUE	JAY ELECTRONIQUE	REMOTE FASTENING KIT	
008200-12741	855E-24TL3	AB	AB	BEACON, 24V AC/DC FULL VOLTAGE, GREEN STEADY LED (SOCKET MOUNT)	009000-03046	1508352 SACC-M12MS-5CON-PG 9 SH AU	PHOENIX CONTACT	BUS SYSTEM-PLUG CONNECTOR	1	-	-	-	SPO08: POWER AND COMM CABLES FOR SCU	
N00001-00378	855E-BCBC	AB	AB	BEACON 50MM CONTROL TOWER BASES, SURFACE / 1/2 INCH NPT CONDUIT MOUNT	060602-15059	1424652 SACC-M12FS-5PL M	PHOENIX CONTACT	CONNECTOR M12 FEMALE 5P STRAIGHT PUSH-IN CONNECTION CONDUCTOR CROSS SECTION SOLID 0,14-0,75MM²	013164-955-08000	013164-955-08000	VI	VI	SCU PWR CABLE WINSTA MIDI MALE/FEMALE 5G2,5MM² HF L=8,0M UL	
N15057-005-00001	N15057-005-00001	VI	VI	BRACKET-SHORT FOR 0.5" CONDUIT MOUNTING	060027-130-11000	060027-130-11000	VI	STANDARD EARTH LITZ 10MM² / M6 - M6 / 1MTR	013164-955-04000	013164-955-04000	VI	VI	SCU PWR CABLE WINSTA MIDI MALE/FEMALE 5G2,5MM² HF L=4,0M UL	
N00001-24111	V15-G-BKSM-PVC-U	P&F	P&F	CABLE M12 MALE 4P STRAIGHT / 4 WIRE PVC 5M BLACK	060602-07161	9200035	JMV	GROUND CONNECTION CLAMP 4/25MM²	N93302-50009	CBX2IG-AY	PANDUIT	PANDUIT	SURFACE MOUNT BOX, MINI-COM, TWO MODULES, GRAY	
1	-	-	-	CS01: START/STOP CONTROL STATION	060602-07161	9200035	JMV	GROUND CONNECTION CLAMP 4/25MM²	N93302-50005	CI688TGGR	PANDUIT	PANDUIT	JACK MODULE RJ45 CAT6 8P MINI-COM TX6 PLUS UNSHIELDED GREEN	
N97500-072-00001	N97500-072-00001	VI	VI	ILL START/STOP CONTROL STATION	060605-00690	0806767 ETS-E	PHOENIX CONTACT	LABEL, SELF-ADHESIVE - ETS-E (GROUND SYMBOL)	N94100-70007	7000-44711-7930200	MURRELEKTRONIK	MURRELEKTRONIK	ETHERNET CAT5 / M12 MALE STRAIGHT - RJ45 MALE 0° / 4-POLE / D-CODED / SHIELDED / 2,0M	
009000-03216	7000-40021-6140500	MURRELEKTRONIK	MURRELEKTRONIK	CABLE M12 MALE 4P STRAIGHT / M12 FEMALE 4P STRAIGHT PVC 5M BLACK	009201-349-10022	009201-349-10022	VI	WELDMENT LMS SUPPORT	005301-01819	7000-44511-7940400	MURRELEKTRONIK	MURRELEKTRONIK	Cable Ethernet CAT5 M12 male 4p straight / M12 male 4p straight D-coded shielded L=4,0m	
N17370-600-00001	N17370-600-00001	VI	VI	BRACKET	012632-683-00001	012632-683-00001	VI	ASSY STANDARD FASTENERS M10	005301-01825	7000-44511-7941000	MURRELEKTRONIK	MURRELEKTRONIK	Cable Ethernet CAT5 M12 male 4p straight / M12 male 4p straight D-coded shielded L=10,0m	
10	-	-	-	CS02: JAM RESTART CONTROL STATION	002371-56206	002371-56206	VI	NUT HEX LOCK NYLOC M6	005301-01830	7000-44511-7942000	MURRELEKTRONIK	MURRELEKTRONIK	Cable Ethernet CAT5 M12 male 4p straight / M12 male 4p straight D-coded shielded L=20,0m	
N97500-062-00001	N97500-062-00001	VI	VI	JAM RESTART CONTROL STATION, ILL WHITE PB 24VDC	002763-00306	002763-00306	VI	WASHER M6 FLAT	2	-	-	-	SPO09: 8mm ENTRY PROX SENSOR (for Entry module SCU)	
009000-03216	7000-40021-6140500	MURRELEKTRONIK	MURRELEKTRONIK	CABLE M12 MALE 4P STRAIGHT / M12 FEMALE 4P STRAIGHT PVC 5M BLACK	002419-06020	002419-06020	VI	SCREW HS FT M6X20	000000-06629	326162-0009 NBN8-12GM50-E2-V1-Y0009	Pepperl+Fuchs	Pepperl+Fuchs	Proximity sensor inductive M12 size M12 male 3p pnp 1NO range 0-8mm	
N17370-600-00001	N17370-600-00001	VI	VI	BRACKET	060602-14926	038438 VAZ-G6F-V1	PEPPERL+FUCHS	ASI TO M12 TAP OFF CONNECTOR VAZ-G6F-V1	17	-	-	-	VFD01: VFD 1HP BRK-N BRES-N	
1	-	-	-	DCDR?: DC CONTROLLER PLACEHOLDER	009000-03216	7000-40021-6140500	MURRELEKTRONIK	CABLE M12 MALE 4P / M12 FEMALE 4P, H/L, L=5M FOR	N97500-090-00011	N97500-090-00011	VI	VI	VFD 1HP BRK-N BRES-N	
3	-	-	-	DC01: 24V-1 POWER SUPPLY (MDR)	1	-	-	NORD3: NORDAC FLEX 15KW SPO VFD	N00001-24111	V15-G-BKSM-PVC-U	P&F	P&F	CABLE M12 MALE 4P STRAIGHT / 4 WIRE PVC 5M BLACK	
N97500-174-00002	N97500-174-00002	VI	VI	POWER SUPPLY, 24VDC (NON CLASS 2), 40A, 4 10A CIRCUITS, POWERS 3-4 DC ROLLERS FROM EACH WITH FLAT CABLE	005301-00557	66K1901-00820-6AA0	SIEMENS	D-CODED M12 CONNECTOR, MALE 4P, STRAIGHT, PROFINET / ETHERNET	N97500-168-00002	N97500-168-00002	VI	VI	MOTOR CABLE HANQ8 ANGLED UL 12AWG 4 WIRE 20 FEET, WITHOUT BRAKE	
N17370-600-00001	N17370-600-00001	VI	VI	EM MOUNTING BRACKET , M6	060602-15059	1424652 SACC-M12FS-5PL M	PHOENIX CONTACT	CONNECTOR M12 FEMALE 5P STRAIGHT PUSH-IN CONNECTION CONDUCTOR CROSS SECTION SOLID 0,14-0,75MM²	060602-14926	038438 VAZ-G6F-V1	P&F	P&F	ASI TO M12 FEMALE TAP OFF CONNECTOR VAZ-G6F-V1 (TAPS FROM CLASS2 24VDC FLAT CABLE)	
N00001-24111	V15-G-BKSM-PVC-U	P&F	P&F	CABLE M12 MALE 4P/STRAIGHT 4 WIRE, 5M BLK	000000-09979	1424662 SACC-M12MSB-5PL SH	PHOENIX CONTACT	CONNECTOR M12 MALE STR B-CODED 5P 4MM-8MM PUSH-IN CONNECTION	029331-073-00001	029331-073-00001	VI	VI	CABLE GUIDING BRACKET	
029331-073-00001	029331-073-00001	VI	VI	CABLE GUIDING BRACKET	060602-13637	7246-40541-6431000	MURRELEKTRONIK	CABLE SENSOR M12 MALE 5P STRAIGHT / M12 FEMALE 5P 90° SHIELDED L=10M	1	-	-	-	VFD03: VFD 1HP BRK-Y BRES-N	
5	-	-	-	DC02: 24V-2 POWER SUPPLY (IO)	060602-12183	53112620	LAPP	CABLE GLAND EMC M16X1.5 BRASS	N97500-090-00013	N97500-090-00013	VI	VI	VFD 1HP BRK-Y BRES-N	
N97500-143-00001	N97500-143-00001	VI	VI	POWER SUPPLY PNL, 24VDC (CLASS 2), 20A, POWERS 20 IO MURR 16 PT BLOCKS	060602-12283	52103310	LAPP	LOCKNUT BRASS M16X1.5 SM-PE-M16	N00001-24111	V15-G-BKSM-PVC-U	P&F	P&F	CABLE M12 MALE 4P STRAIGHT / 4 WIRE PVC 5M BLACK	
N17370-600-00001	N17370-600-00001	VI	VI	EM MOUNTING BRACKET , M6	060602-12183	53112620	LAPP	CABLE GLAND EMC M16X1.5 BRASS	N97500-169-00002	N97500-169-00002	VI	VI	MOTOR CABLE HANQ8 ANGLED UL 12AWG 6 WIRE 20 FEET, WITH BRAKE	
029331-073-00001	029331-073-00001	VI	VI	CABLE GUIDING BRACKET	060602-07161	9200035	JMV	GROUND CONNECTION CLAMP 4/25MM²	060602-14926	038438 VAZ-G6F-V1	P&F	P&F	ASI TO M12 FEMALE TAP OFF CONNECTOR VAZ-G6F-V1 (TAPS FROM CLASS2 24VDC FLAT CABLE)	
112	-	-	-	DCDR01: DC CONTROLLER-1 DIRECTION	060605-00690	0806767 ETS-E	PHOENIX CONTACT	LABEL, SELF-ADHESIVE - ETS-E (GROUND SYMBOL)	029331-073-00001	029331-073-00001	VI	VI	CABLE GUIDING BRACKET	
009000-03214	7000-40021-6140200	MURRELEKTRONIK	MURRELEKTRONIK	CABLE M12 MALE STRAIGHT / M12 FEMALE STRAIGHT 2M BLACK	060602-14926	038438 VAZ-G6F-V1	PEPPERL+FUCHS	ASI TO M12 TAP OFF CONNECTOR VAZ-G6F-V1	8	-	-	-	VFD04: VFD 2HP BRK-N BRES-N	
by MECHANICAL	013064-782-00001	VI	VI	ITODENKI DC CONTROLLER, 1 DIRECTION, W/CBM-50E M12 CABLES (NON UL)	009000-03216	7000-40021-6140500	MURRELEKTRONIK	CABLE M12 MALE 4P, H/L, L=5M FOR	N97500-091-00011	N97500-091-00011	VI	VI	VFD 2HP BRK-N BRES-N	
10	-	-	-	DCD4: 24V-1 POWER SUPPLY (FOR BOR)	N00001-24069	101591874 SK 210E-152-340-A	NORD	LMS-V NORDAC FLEX 15KW ETHERNET I/P + STO + HTL + BRAKE RESISTOR	N00001-24111	V15-G-BKSM-PVC-U	P&F	P&F	CABLE M12 MALE 4P STRAIGHT / 4 WIRE PVC 5M BLACK	
N97500-174-00003	N97500-174-00003	VI	VI	POWER SUPPLY, 24VDC (NON CLASS 2), 40A, 4 10A CIRCUITS, POWERS 3-4 DC ROLLERS FROM EACH WITH FLAT CABLE	005301-00572	7000-74001-0000000	MURRELEKTRONIK	CONNECTOR ETHERNET RJ45 PROFESSIONAL MALE 4P STRAIGHT SHIELDED CAT5	N97500-168-00002	N97500-168-00002	VI	VI	MOTOR CABLE HANQ8 ANGLED UL 12AWG 4 WIRE 20 FEET, WITHOUT BRAKE	
N17370-600-00001	N17370-600-00001	VI	VI	EM MOUNTING BRACKET , M6	000000-11611	700713	LAPP	Cable Offlex VFD 2XL 4G6+(2x1,0)mm² shielded	060602-14926	038438 VAZ-G6F-V1	P&F	P&F	ASI TO M12 FEMALE TAP OFF CONNECTOR VAZ-G6F-V1 (TAPS FROM CLASS2 24VDC FLAT CABLE)	
N00001-24111	V15-G-BKSM-PVC-U	P&F	P&F	CABLE M12 MALE 4P/STRAIGHT 4 WIRE, 5M BLK	060602-12201	53112650	LAPP	M32 CABLE GLAND (11-21MM) BRASS EMC	029331-073-00001	029331-073-00001	VI	VI	CABLE GUIDING BRACKET	
029331-073-00001	029331-073-00001	VI												

CONTROL PANEL OVERVIEW - CP1090

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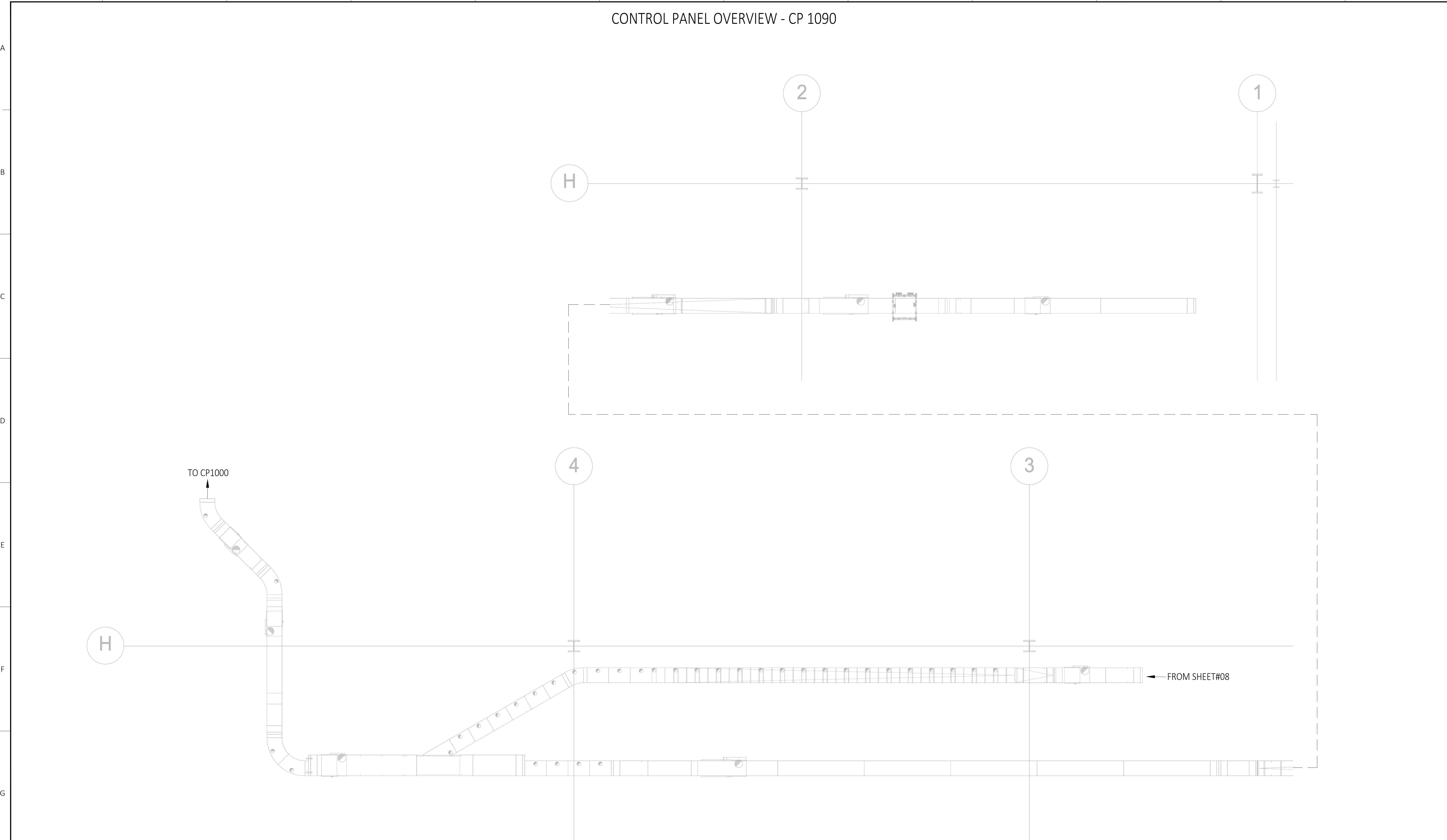
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REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E-008
STATUS:		AS BUILT
DRAWN :		USTWILM
DATE :		07/06/2023
SCALE :		NTS
NUMBER :	29332-431-11090	SHT: 008
EN	REV.:	C01

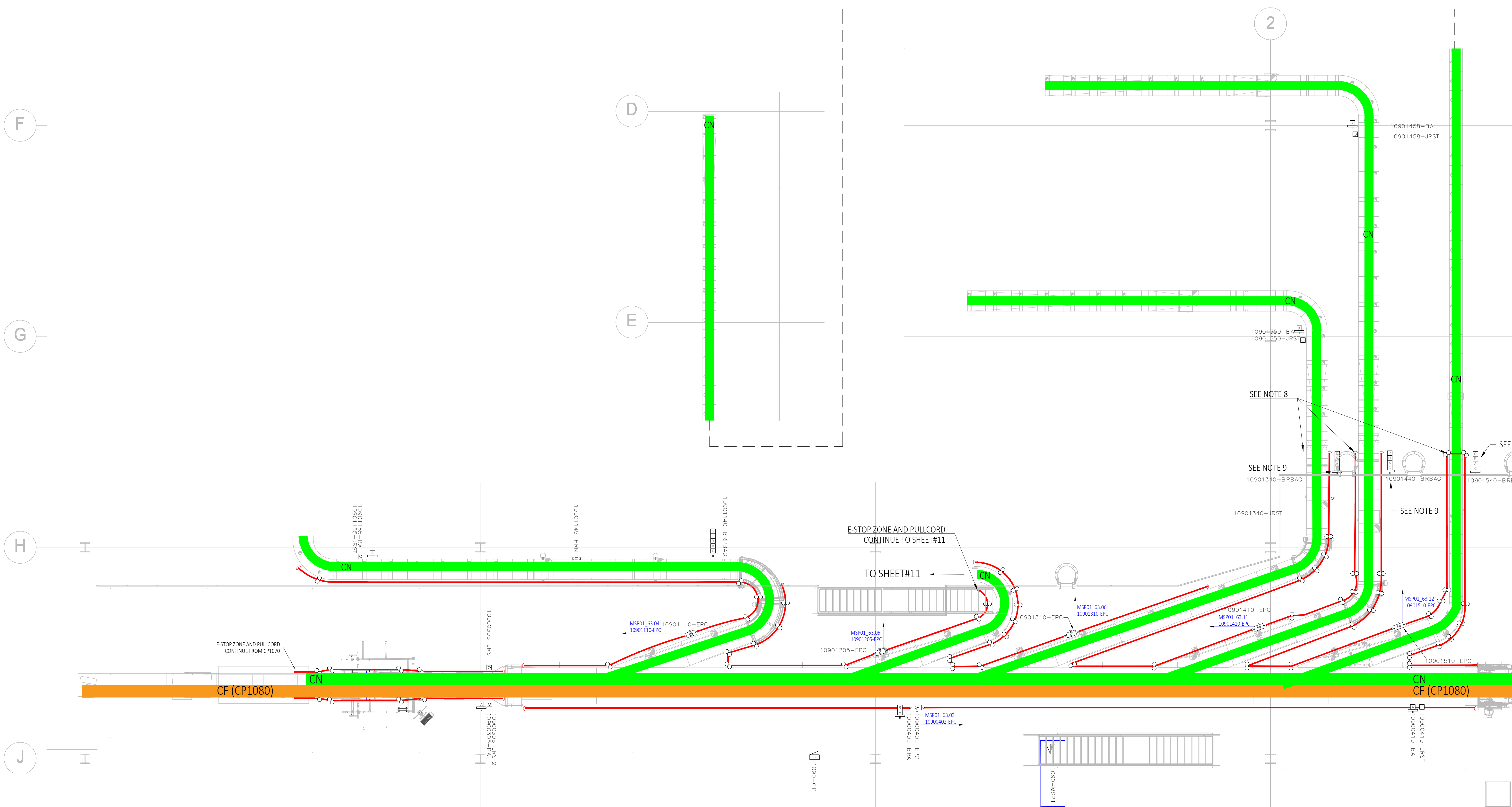
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E-STOP ZONE LAYOUT - MAIN LINE AND CASE DIVERTS

FILENAME: 29332-431-11090-010.DWG
PLOTTED BY: USDCHER ON: 27/09/2024 14:46



- NOTES:**
- REFER TO SHEET 003 FOR DEVICE SYMBOL LEGEND
 - INSTALLER WILL ABIDE BY SPECIFICATIONS (C-03.02-003 SAFETY INSTALL STANDARDS AND C-03.02-001 ELECTRICAL INSTALL STANDARDS) WHEN INSTALLING E-STOP PULLCORD
 - REFER TO VI DOCUMENT DOC(TBD) FOR EXAMPLES OF PULLCORD ROUTING FOR SPECIFIC AREAS
 - INSTALLER WILL ABIDE BY SPECIFICATIONS (C-03.02-003 SAFETY INSTALL STANDARDS AND C-03.02-001 ELECTRICAL INSTALL STANDARDS) WHEN INSTALLING BEACONS
 - ALL BEACONS MOUNTED WITH BASE 6" ABOVE FINISHED FLOOR (AFF) UNLESS OTHERWISE NOTED
 - UNDERHUNG BEACONS MOUNTED NO LOWER THAN 6'8" AFF
 - INSTALLER TO INSTALL BEACONS IN SUCH A WAY THAT AVOIDS INTERFERENCE (WITH HEADER STEEL, PANELS, ETC) AND CONTACT ENGINEERING IF AN ALTERNATE LOCATION IS NEEDED
 - REFER TO SHEETS 650-699 FOR RELAY INTERFACE SIGNAL DETAIL
 - PULLCORD TO BE WRAPPED UNDER CONVEYOR 3" FROM END OF PLATFORM
 - BEACON TO BE MOUNTED 6" FROM END OF PLATFORM
 - REFER TO:
 - N97500-196 FOR PLC PANELS (OR N97500-194 FOR SPO MAINTENANCE PLC PANELS)
 - N97500-165 FOR MSP PANELS
 - N97500-148 FOR RIO PANELS

CABLE EXPLANATION

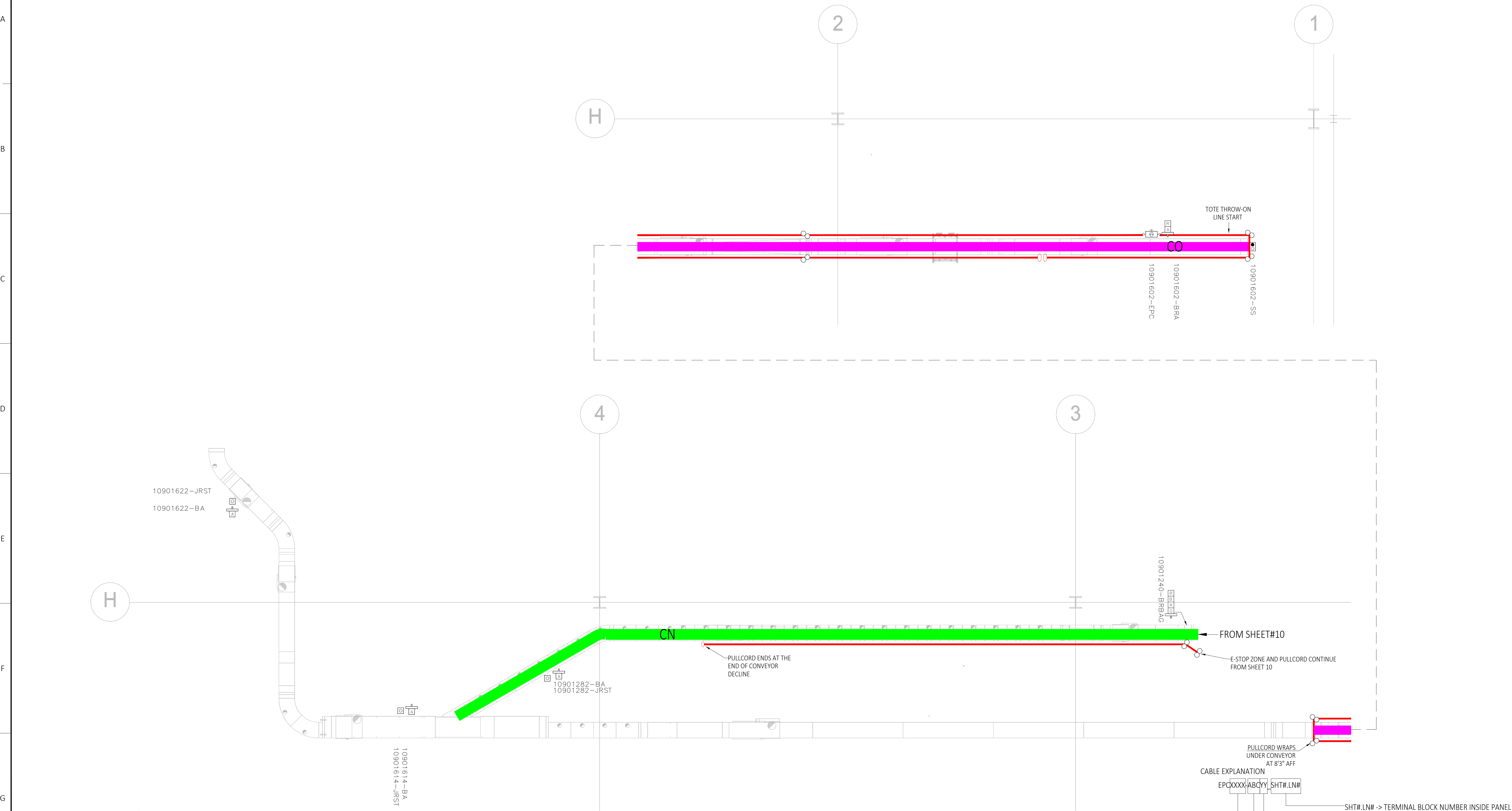
EPC	XXX	ABC	YY	SHT#	LN#
					SHT# LN# -> TERMINAL BLOCK NUMBER INSIDE PANEL
					YY -> PANEL ID NUMBER
					ABC -> PANEL FED BY (MSP OR RIO)
					XXXX -> PLC AREA NUMBER

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :			
LOCATION :			
CUSTOMER DRAWING #:		DAB2-E-010	
STATUS:		AS BUILT	
DRAWN :		USTWILM	
DATE :		07/06/2023	
SCALE :		NTS	
NUMBER :	29332-431-11090	SHT:	010
EN		REV.:	C01

E-STOP ZONE LAYOUT - TOTE DIVERT AND THROW-ON LINE

FILENAME: 29332-431-11090-011.DWG
 PLOTTED BY: USDCHEM ON: 27/09/2024 14:47
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- NOTES:**
- REFER TO SHEET 003 FOR DEVICE SYMBOL LEGEND
 - INSTALLER WILL ABIDE BY SPECIFICATIONS (C-03.02-003 SAFETY INSTALL STANDARDS AND C-03.02-001 ELECTRICAL INSTALL STANDARDS) WHEN INSTALLING E-STOP PULLCORD
 - REFER TO VI DOCUMENT DOC(TBD) FOR EXAMPLES OF PULLCORD ROUTING FOR SPECIFIC AREAS
 - INSTALLER WILL ABIDE BY SPECIFICATIONS (C-03.02-003 SAFETY INSTALL STANDARDS AND C-03.02-001 ELECTRICAL INSTALL STANDARDS) WHEN INSTALLING BEACONS
 - ALL BEACONS MOUNTED WITH BASE 6" ABOVE FINISHED FLOOR (AFF) UNLESS OTHERWISE NOTED
 - UNDERHUNG BEACONS MOUNTED NO LOWER THAN 6'8" AFF
 - INSTALLER TO INSTALL BEACONS IN SUCH A WAY THAT AVOIDS INTERFERENCE (WITH HEADER STEEL, PANELS, ETC) AND CONTACT ENGINEERING IF AN ALTERNATE LOCATION IS NEEDED
 - REFER TO SHEETS 650-699 FOR RELAY INTERFACE SIGNAL DETAIL
 - REFER TO:
 - N97500-196 FOR PLC PANELS (OR N97500-194 FOR SPO MAINTENANCE PLC PANELS)
 - N97500-165 FOR MSP PANELS
 - N97500-148 FOR RIO PANELS

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHEM	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :			
LOCATION :			
CUSTOMER DRAWING #:		DAB2-E-011	
STATUS:		AS BUILT	
DRAWN :		USTWILM	
DATE :		07/06/2023	
SCALE :		NTS	
NUMBER :	29332-431-11090	SHT:	011
EN		REV.:	C01

CABLE EXPLANATION

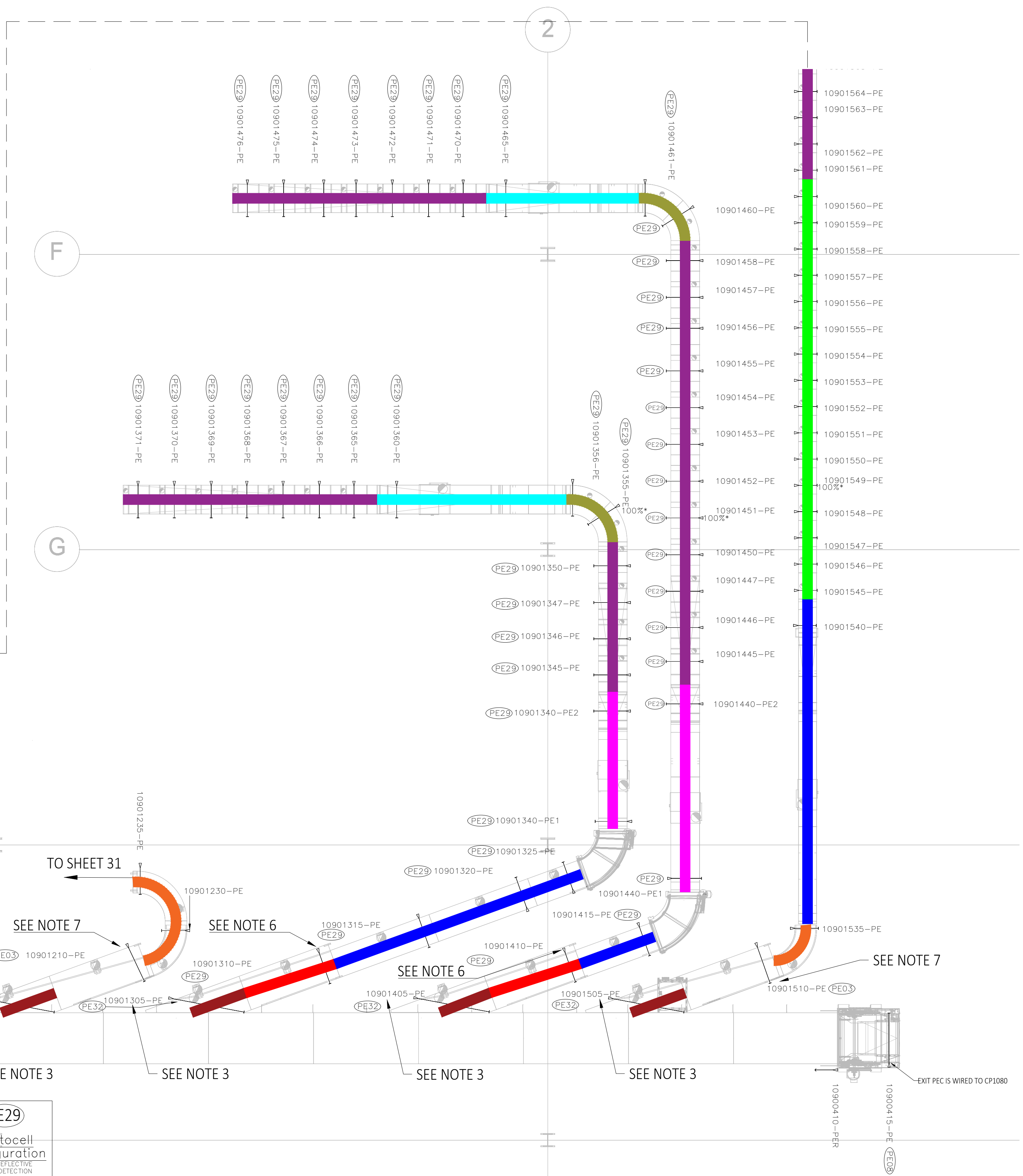
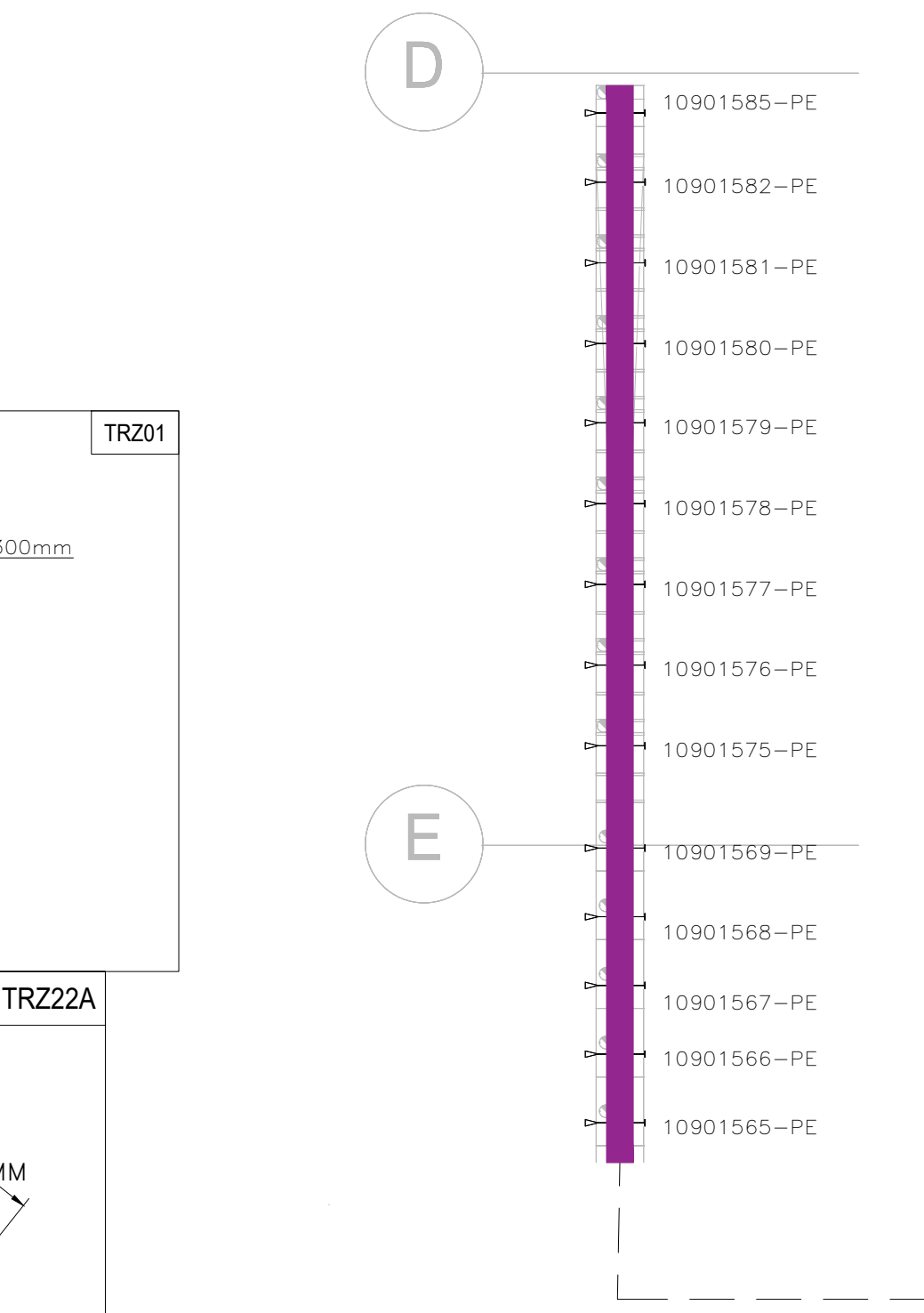
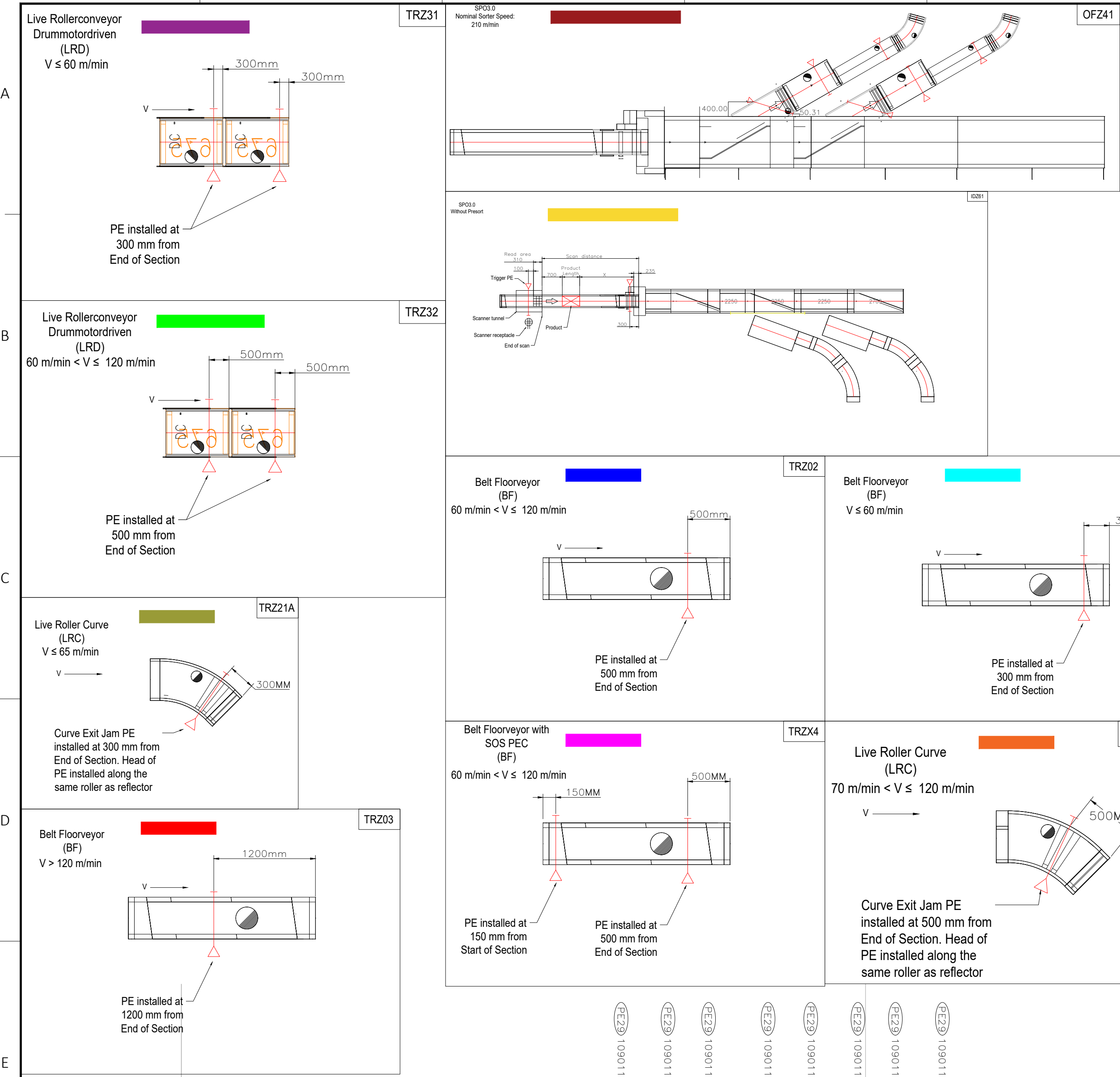
EPOXXX-ABCYY-SHT#.LN#

PULLCORD WRAPS UNDER CONVEYOR AT 8'3" AFF

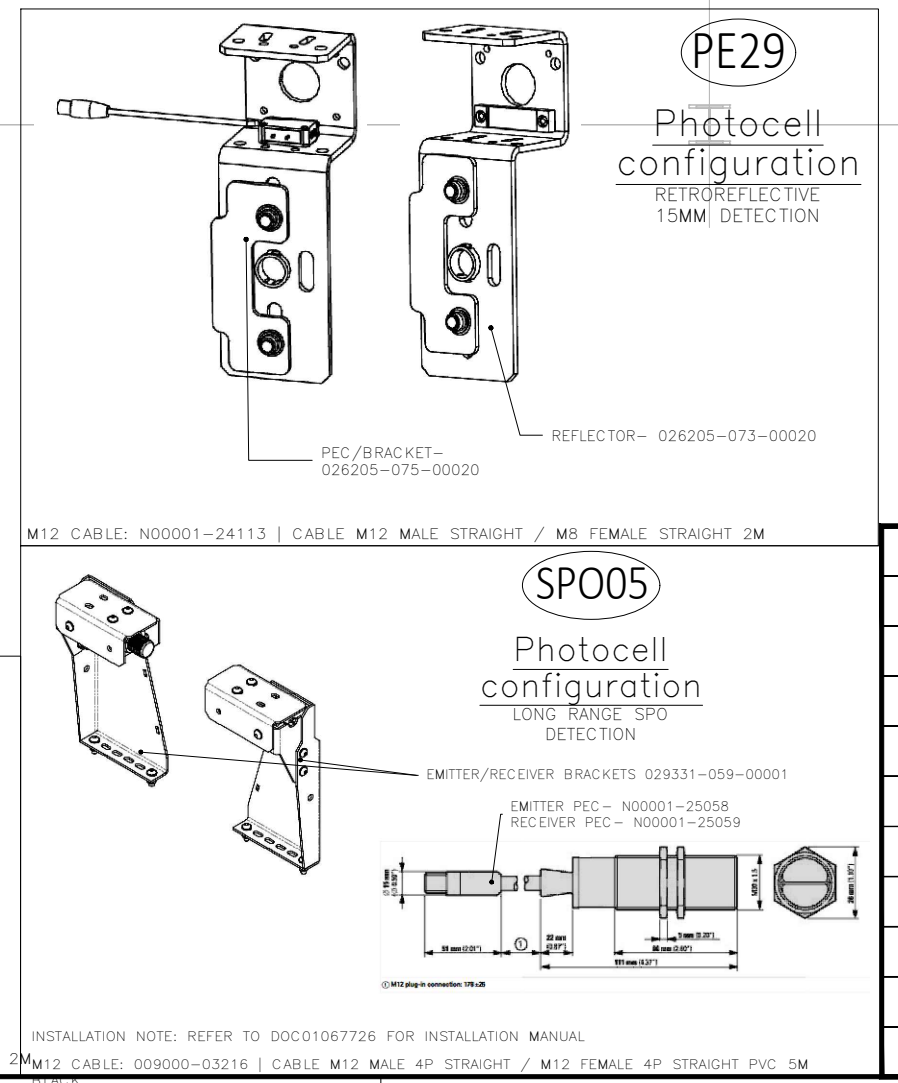
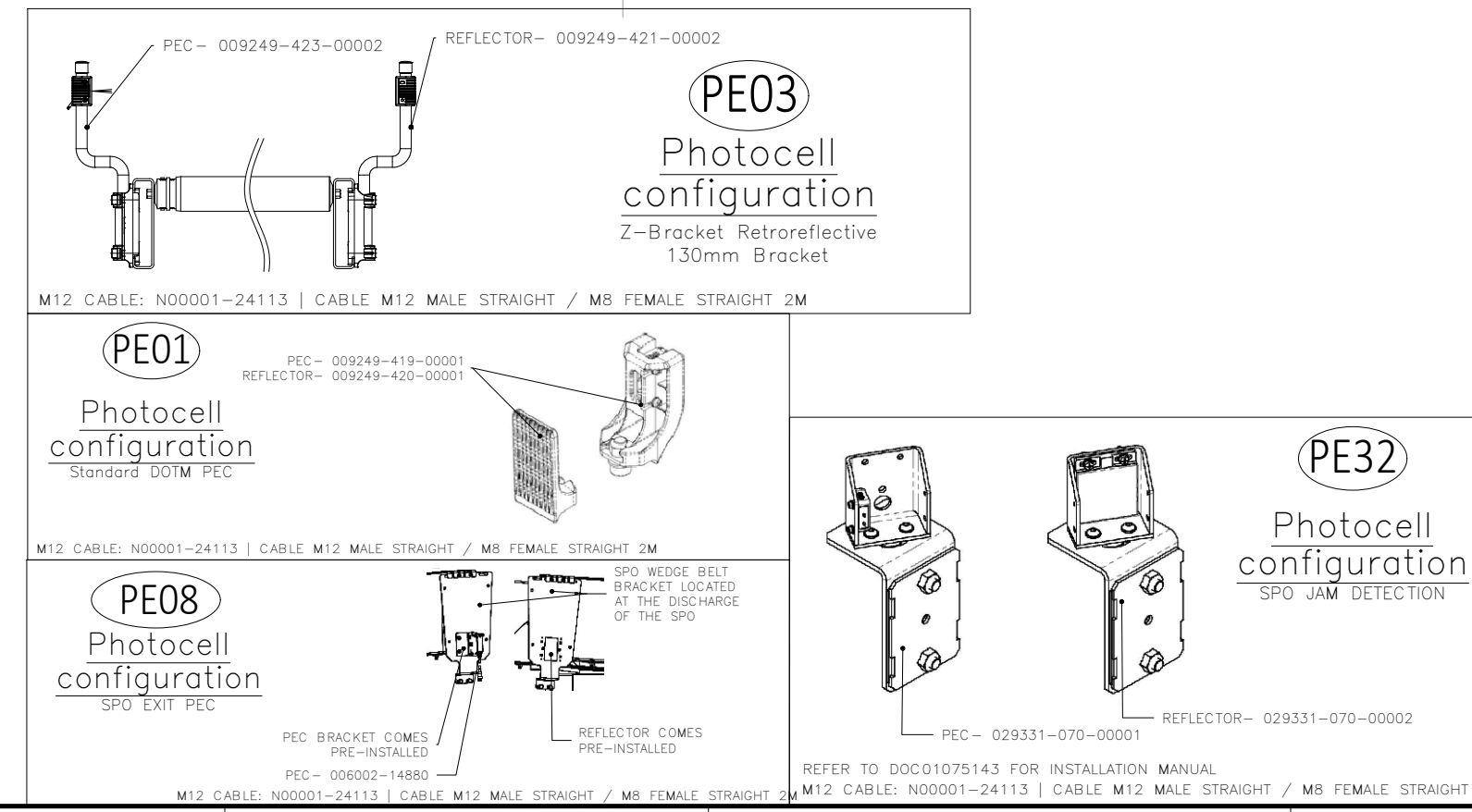
SHT#.LN# -> TERMINAL BLOCK NUMBER INSIDE PANEL
 YY -> PANEL ID NUMBER
 ABC -> PANEL FED BY (MSP OR RIO)
 XXXX -> PLC AREA NUMBER

PHOTOEYE INSTALLATION DETAIL - MAIN LINE AND CASE DIVERTS

FILENAME: 29332-431-11090-030.DWG
 PLOTTED BY: USCHER ON: 27/09/2024 14:53
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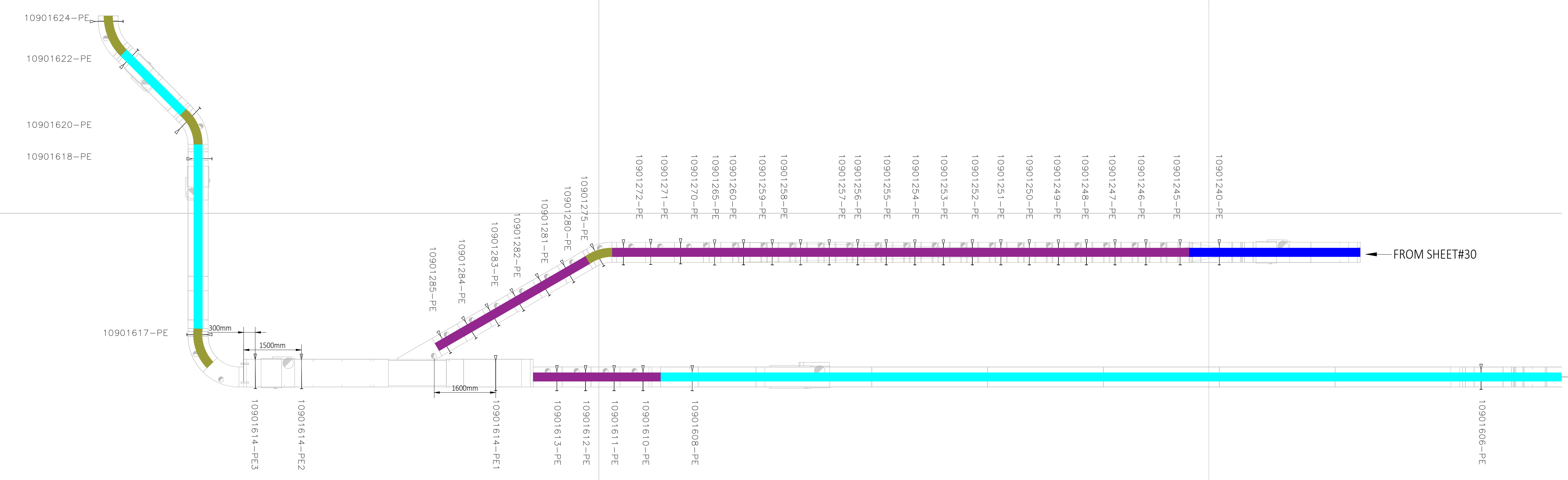
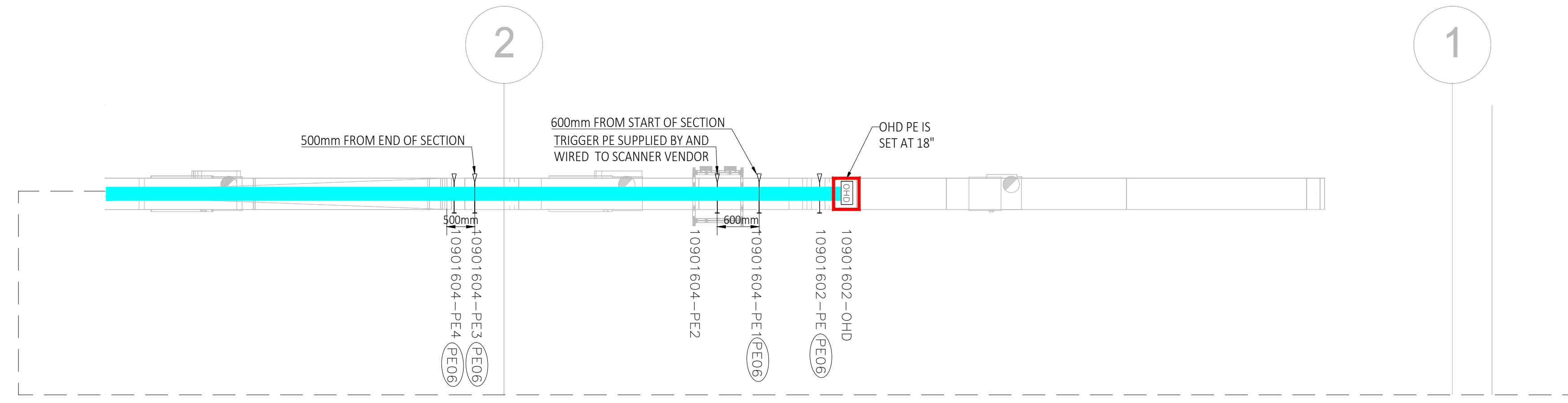
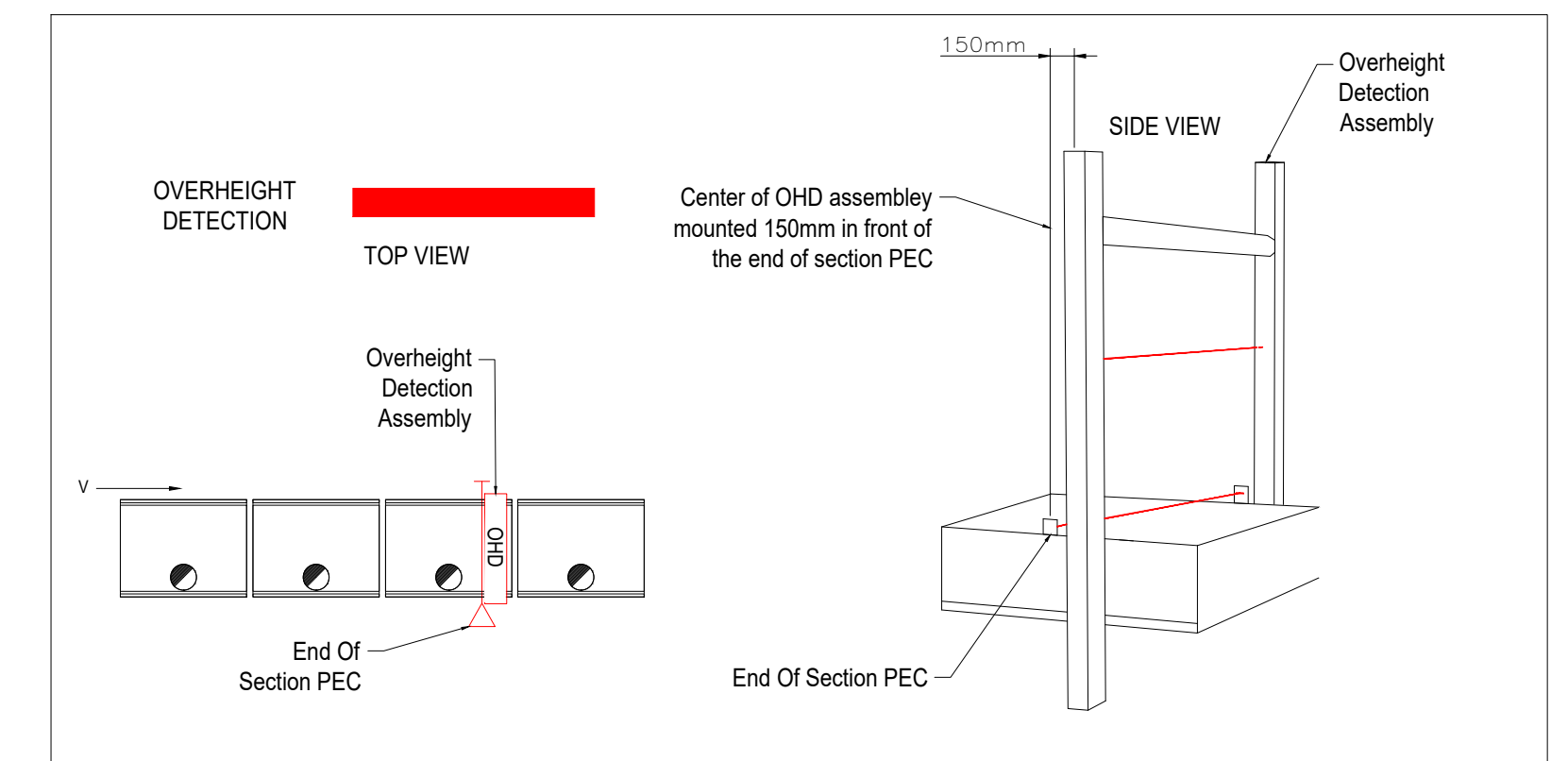
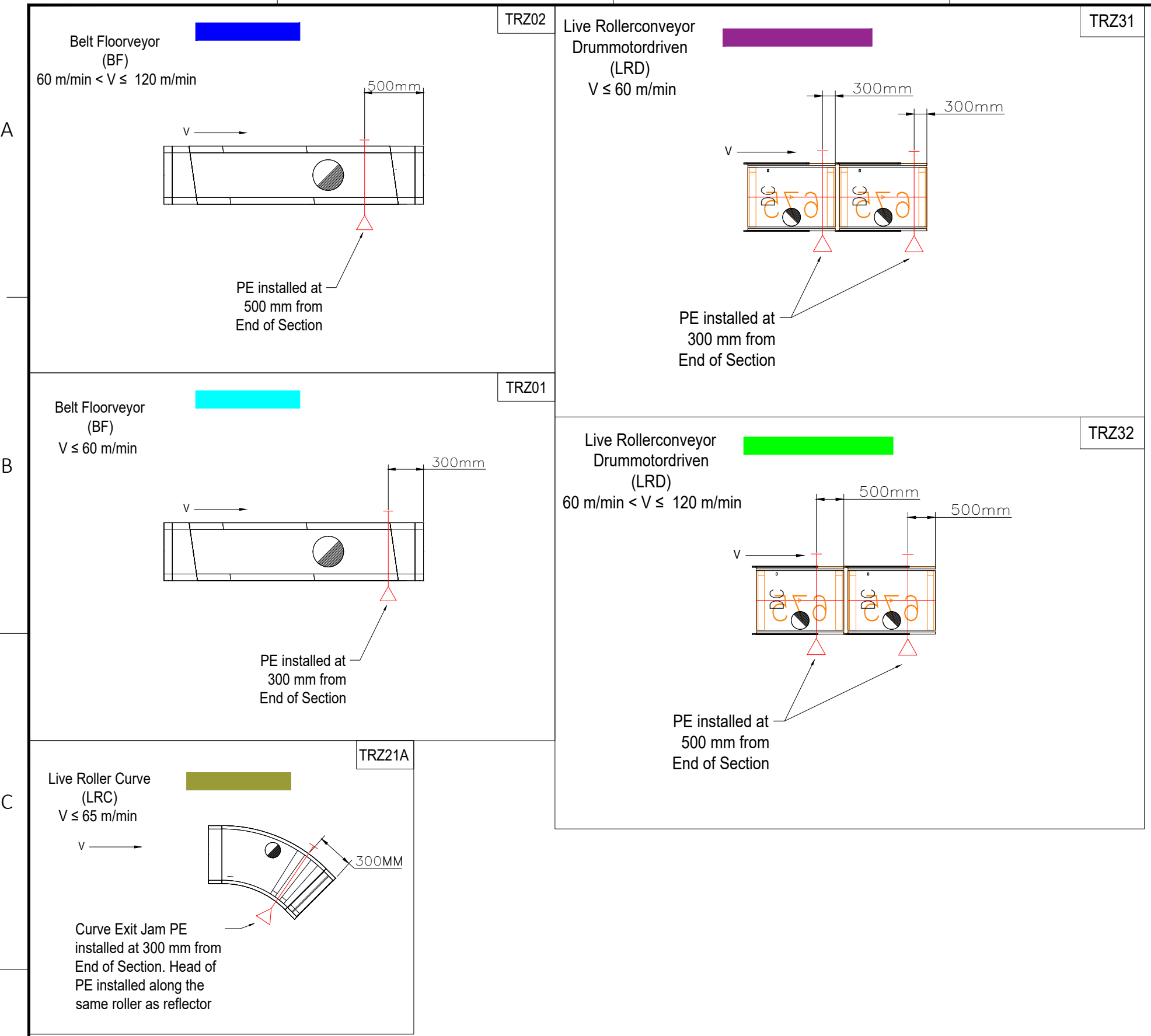
- NOTES:
- ALL PHOTOEYES ARE TYPE 01 UNLESS OTHERWISE SPECIFIED
 - REFER TO 30123-431-9980E104 FOR INSTALLATION DETAILS OF DIVERT CONFIRM PHOTOEYE
 - REFER TO SHEET 405 FOR CONNECTION DETAILS OF DIVERT CONFIRM PHOTOEYE
 - REFER TO DOC01067726 FOR INSTALLATION DETAILS OF LONG RANGE PHOTOEYES
 - REFER TO DOC01075143 FOR INSTALLATION DETAIL OF PE32
 - ALL PHOTOEYES FOR LINES 109011XX, 109013XX, AND 109014XX ARE TYPE 29 UNLESS OTHERWISE SPECIFIED.
 - 10901210-PE AND 10901510-PE INSTALLED 4" FROM END OF SECTION AND 5" ABOVE ROLLERS



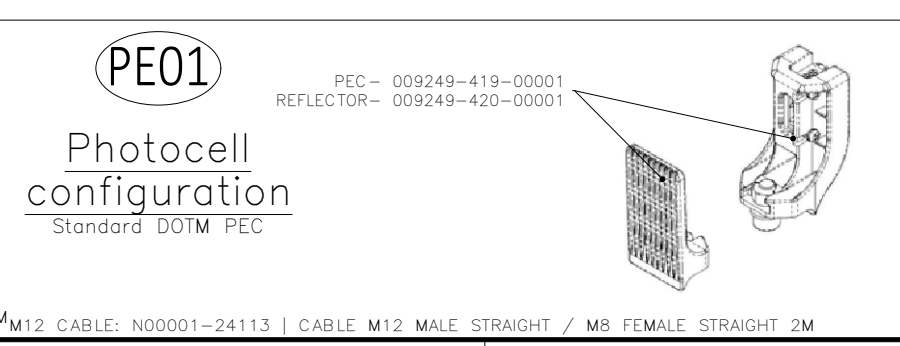
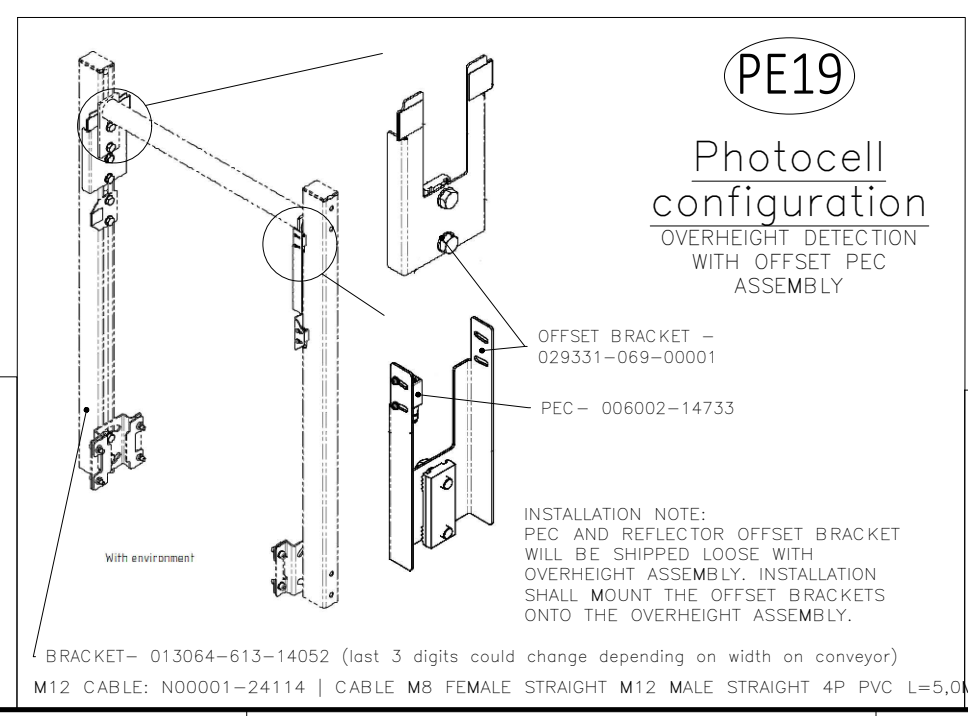
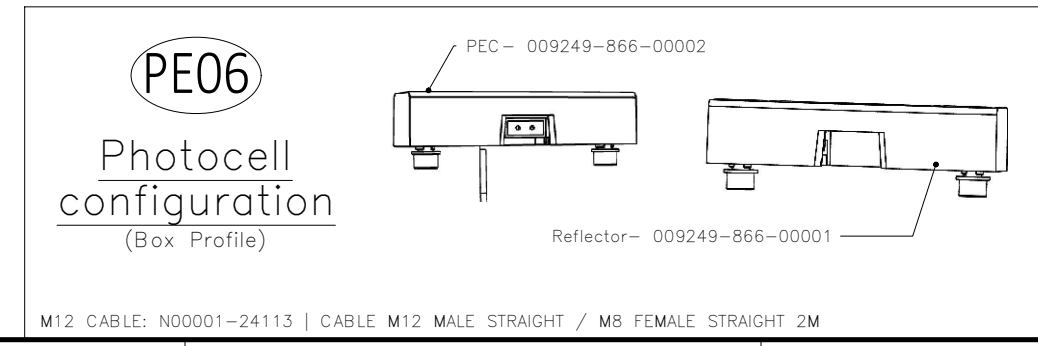
REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :	
LOCATION :	
CUSTOMER DRAWING #:	DAB2-E-030
STATUS:	AS BUILT
DRAWN BY:	USTWILM
DATE:	07/06/2023
SCALE:	NTS
TITLE:	CP1090 - DOCK SORTER (SPO) PHOTOEYE INSTALLATION DETAIL
NUMBER:	29332-431-11090
SHT:	030
EN	
REV.:	C01

PHOTOEYE INSTALLATION DETAIL - TOTE DIVERT AND THROW-ON LINE



NOTES:
1. ALL PHOTOEYES ARE TYPE 01 UNLESS OTHERWISE SPECIFIED

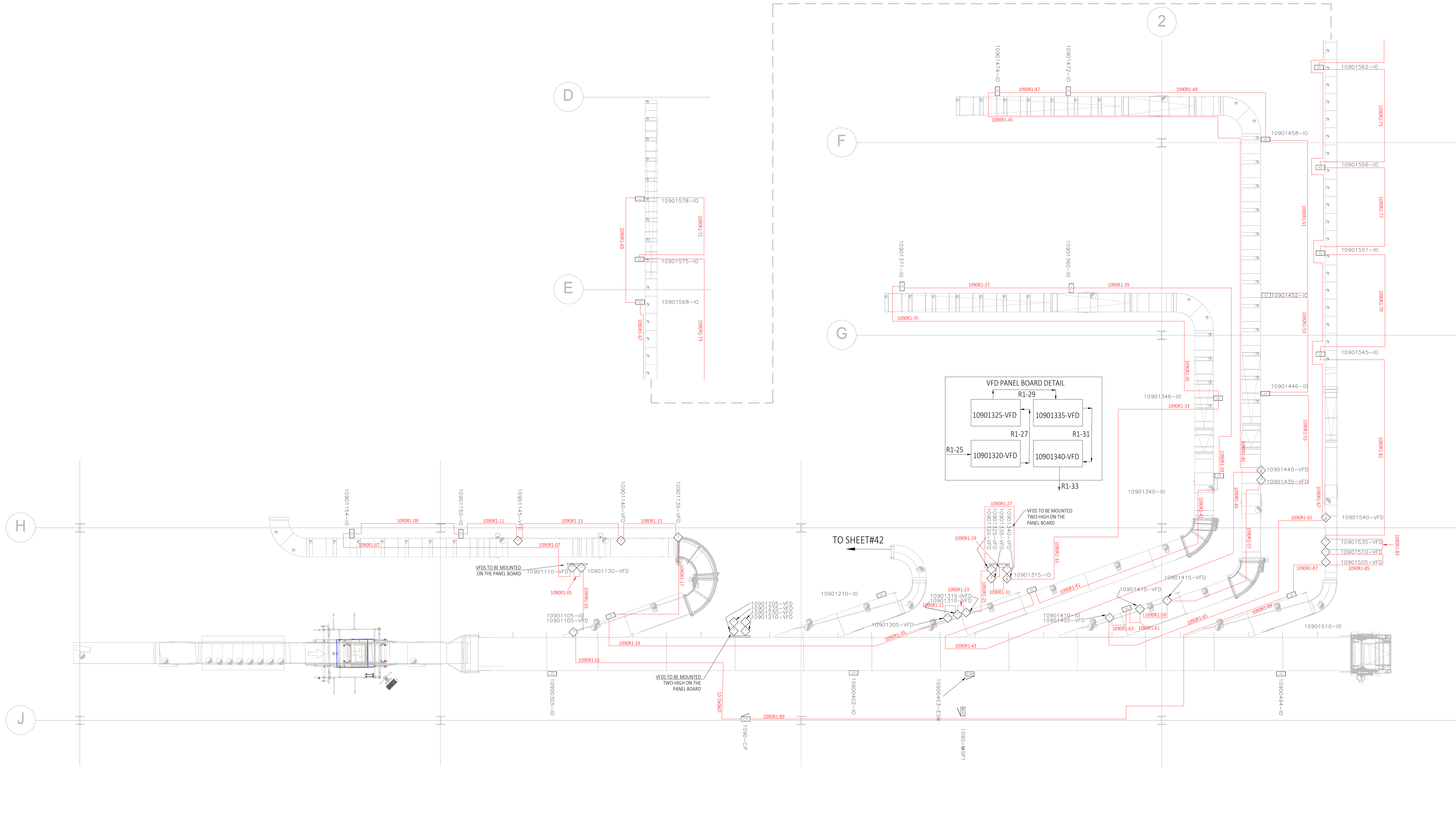


REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER : /		LOCATION : /	
CUSTOMER DRAWING #: DAB2-E-031			
STATUS: AS BUILT		DRAWN : USTWILM	
DATE : 07/06/2023		TITLE : CP1090 - DOCK SORTER (SPO)	
SCALE : NTS		PHOTOEYE INSTALLATION DETAIL	
NUMBER : 29332-431-11090	SHT: 031	EN	REV.: C01

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NETWORK LAYOUT - RING 1



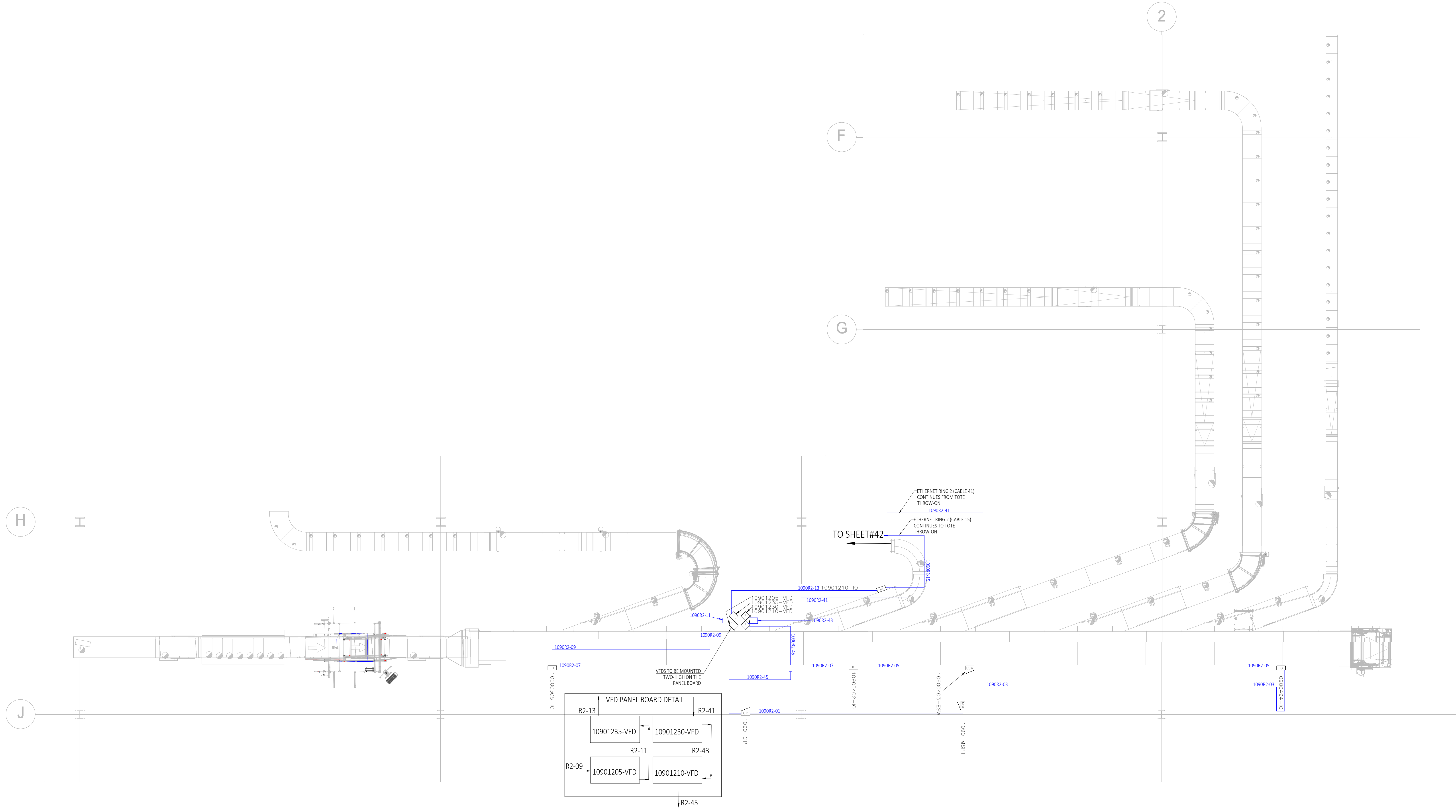
- NOTES:**
- REFER TO SHEET 003 FOR DEVICE SYMBOL LEGEND
 - REFER TO SHEET 909 FOR NETWORK CONNECTION TYPICALS
 - REFER TO NETWORK TO/FROM LIST: VI DOCUMENT # 29332-452-21090

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :			
LOCATION :			
CUSTOMER DRAWING #: DAB2-E-		040	
STATUS:		AS BUILT	
DRAWN : USTWILM		TITLE : CP1090 - DOCK SORTER (SPO)	
DATE : 07/06/2023		NETWORK LAYOUT	
SCALE : NTS		NUMBER :	29332-431-11090
		SHT: 040	EN
		REV.:	C01

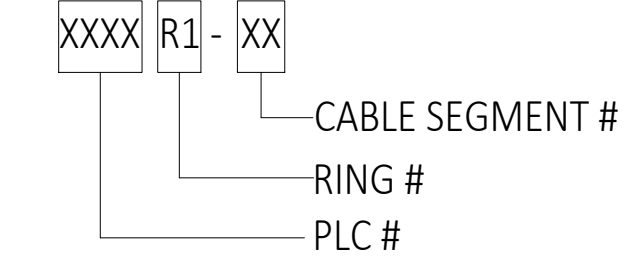
NETWORK LAYOUT - RING 2

FILENAME: 29332-431-11090-041.DWG
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- NOTES:**
- REFER TO SHEET 003 FOR DEVICE SYMBOL LEGEND
 - REFER TO SHEET 909 FOR NETWORK CONNECTION TYPICALS
 - REFER TO NETWORK TO/FROM LIST: VI DOCUMENT # 29332-452-21090

CABLE EXPLANATION

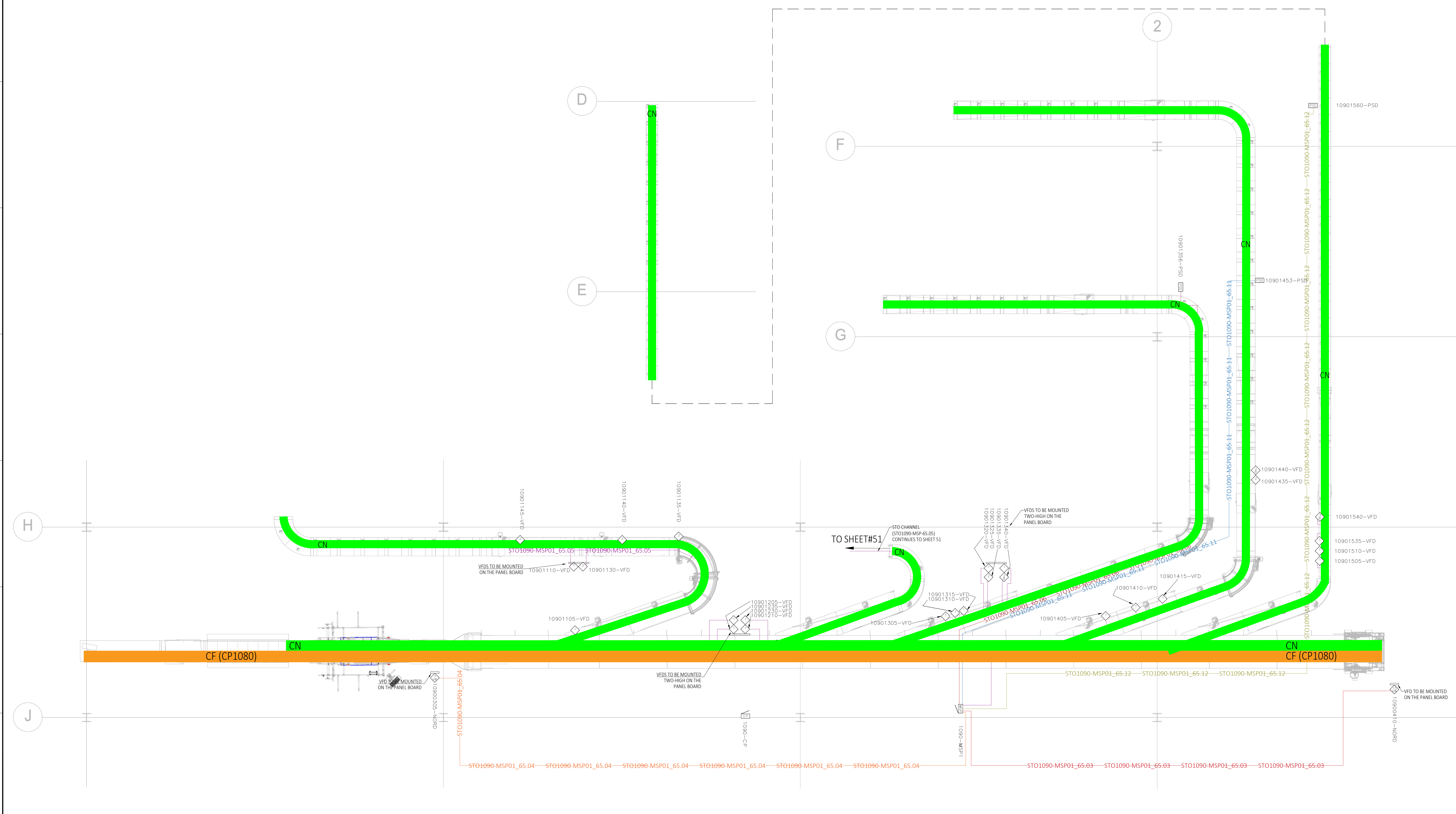


REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHEER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER : *****	
LOCATION :	
CUSTOMER DRAWING #: DAB2-E-041	
STATUS:	AS BUILT
DRAWN : USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)
DATE : 07/06/2023	NETWORK LAYOUT
SCALE : NTS	NUMBER : 29332-431-11090
SHT: 041	EN
REV: C01	

STO CABLE LAYOUT - MAIN LINE AND CASE DIVERTS

FILENAME: 29332-431-11090-050.DWG
 PLOTTED BY: USDCHEER ON: 27/09/2024 14:57
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- NOTES:**
- REFER TO SHEET 003 FOR DEVICE SYMBOL LEGEND
 - REFER TO SHEETS 650-699 FOR RELAY INTERFACE SIGNAL DETAIL
 - REFER TO SHEETS 900-902 & 908 FOR VFD STO WIRING DETAIL
 - REFER TO SHEET 906 FOR 24V STO WIRING DETAIL
 - REFER TO:
 - N97500-196 FOR PLC PANELS (OR N97500-194 FOR SPO MAINTENANCE PLC PANELS)
 - N97500-165 FOR MSP PANELS
 - N97500-148 FOR RIO PANELS

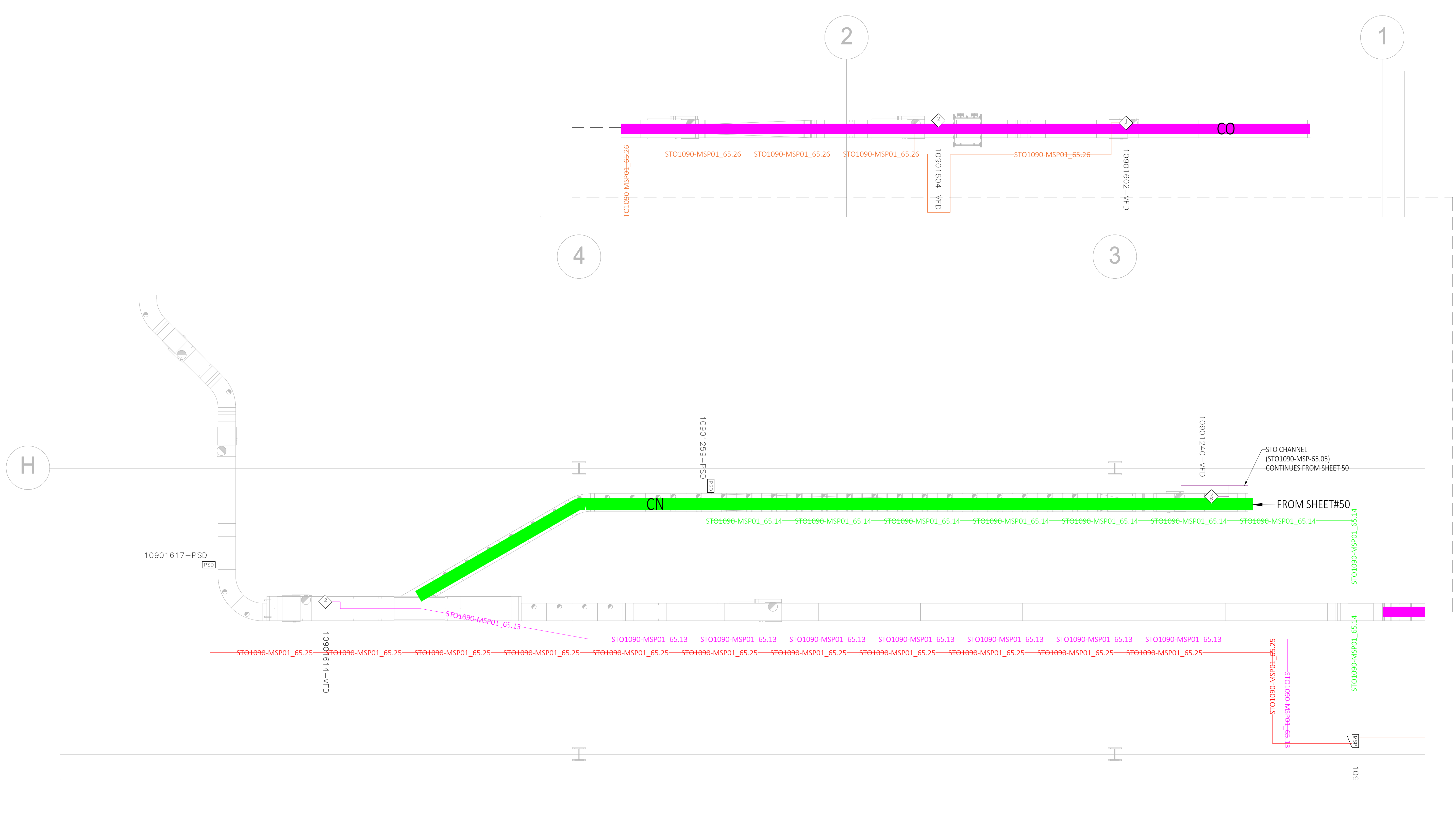
CABLE EXPLANATION

STOXXXX-ABCYY-SHT#.LN#

- SHT#.LN# -> TERMINAL BLOCK NUMBER INSIDE PANEL
- YY -> PANEL ID NUMBER
- ABC -> PANEL FED BY (MSP OR RIO)
- XXXX -> PLC AREA NUMBER

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION						
C01	USDCHEER	USMVHI	USMVHI	09/27/2024	AS BUILT						
						CUSTOMER LOCATION		CUSTOMER DRAWING #: DAB2-E-050			
						STATUS: AS BUILT		TITLE: CP1090 - DOCK SORTER (SPO) STO CABLE LAYOUT			
						DRAWN: USTWILM					
						DATE: 07/06/2023					
						SCALE: NTS		NUMBER: 29332-431-11090		SHT: 050	EN
								REV: C01			

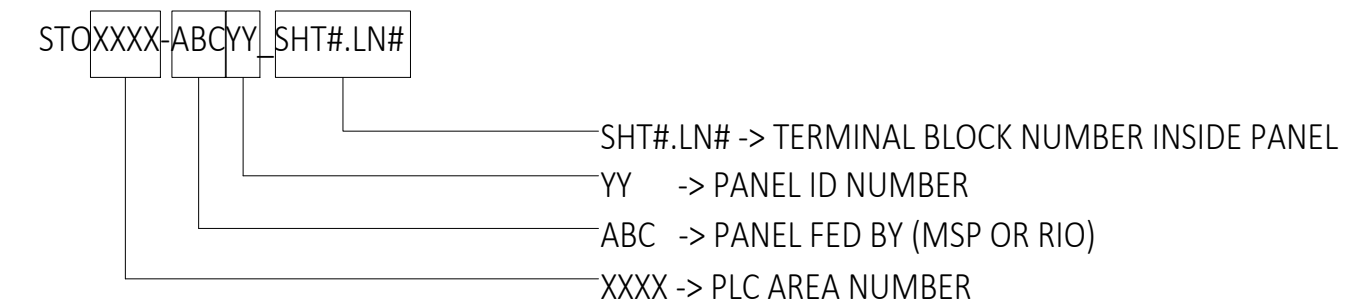
STO CABLE LAYOUT - TOTE DIVERT AND THROW-ON LINE



NOTES:

1. REFER TO SHEET 003 FOR DEVICE SYMBOL LEGEND
2. REFER TO SHEETS 650-699 FOR RELAY INTERFACE SIGNAL DETAIL
3. REFER TO SHEETS 900-902 & 908 FOR VFD STO WIRING DETAIL
4. REFER TO SHEET 906 FOR 24V STO WIRING DETAIL
5. REFER TO:
 - 5.1. N97500-196 FOR PLC PANELS (OR N97500-194 FOR SPO MAINTENANCE PLC PANELS)
 - 5.2. N97500-165 FOR MSP PANELS
 - 5.3. N97500-148 FOR RIO PANELS

CABLE EXPLANATION



REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

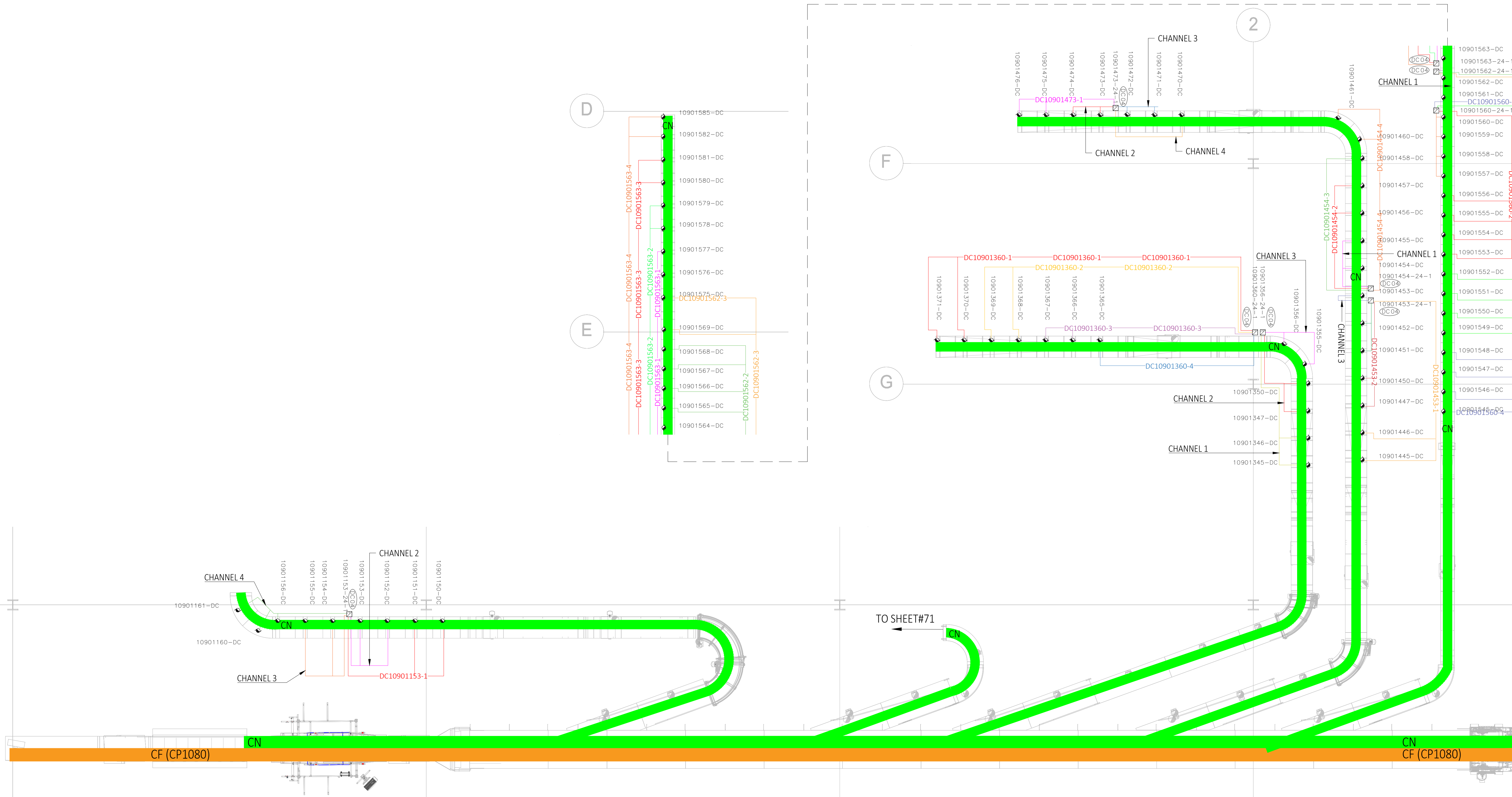
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LOCATION :			
CUSTOMER DRAWING #: DAB2-E- 051			
STATUS:		AS BUILT	
DRAWN : USTWILM		TITLE : CP1090 - DOCK SORTER (SPO)	
DATE : 07/06/2023		STO CABLE LAYOUT	
SCALE : NTS		NUMBER :	29332-431 -11090
		SHT:	051
		EN	
		REV.:	C01

FILENAME: 29332-431-11090-051.DWG
PLOTTED BY: USDCHER ON: 27/09/2024 14:58

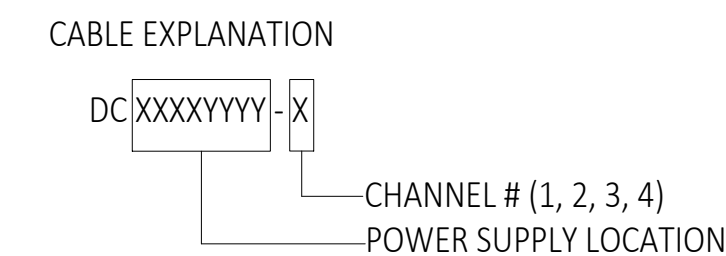
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DC POWER GROUP LAYOUT - MAIN LINE AND CASE DIVERTS

FILENAME: 29332-431-11090-070.DWG
 PLOTTED BY: USDCHEK ON: 27/09/2024 14:59
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- NOTES:**
- REFER TO SHEET 003 FOR DEVICE SYMBOL LEGEND
 - REFER TO SHEET 904 FOR 24-1 (NON-CLASS 2) POWER SUPPLY PANEL TYPICAL
 - REFER TO SHEET 906 FOR 24V (CLASS 2 AND NON-CLASS 2) POWER SUPPLY PANEL TYPICAL
 - 24-1 POWER SUPPLY WITH "DC04" CODE SHOWING IS VI PART# N97500-174-00003
 - 24-1 POWER SUPPLY WITH NO CODE SHOWING IS VI PART# N97500-174-00002
 - REFER TO DC POWER GROUP LIST: VI DOCUMENT # 29332-452-31090

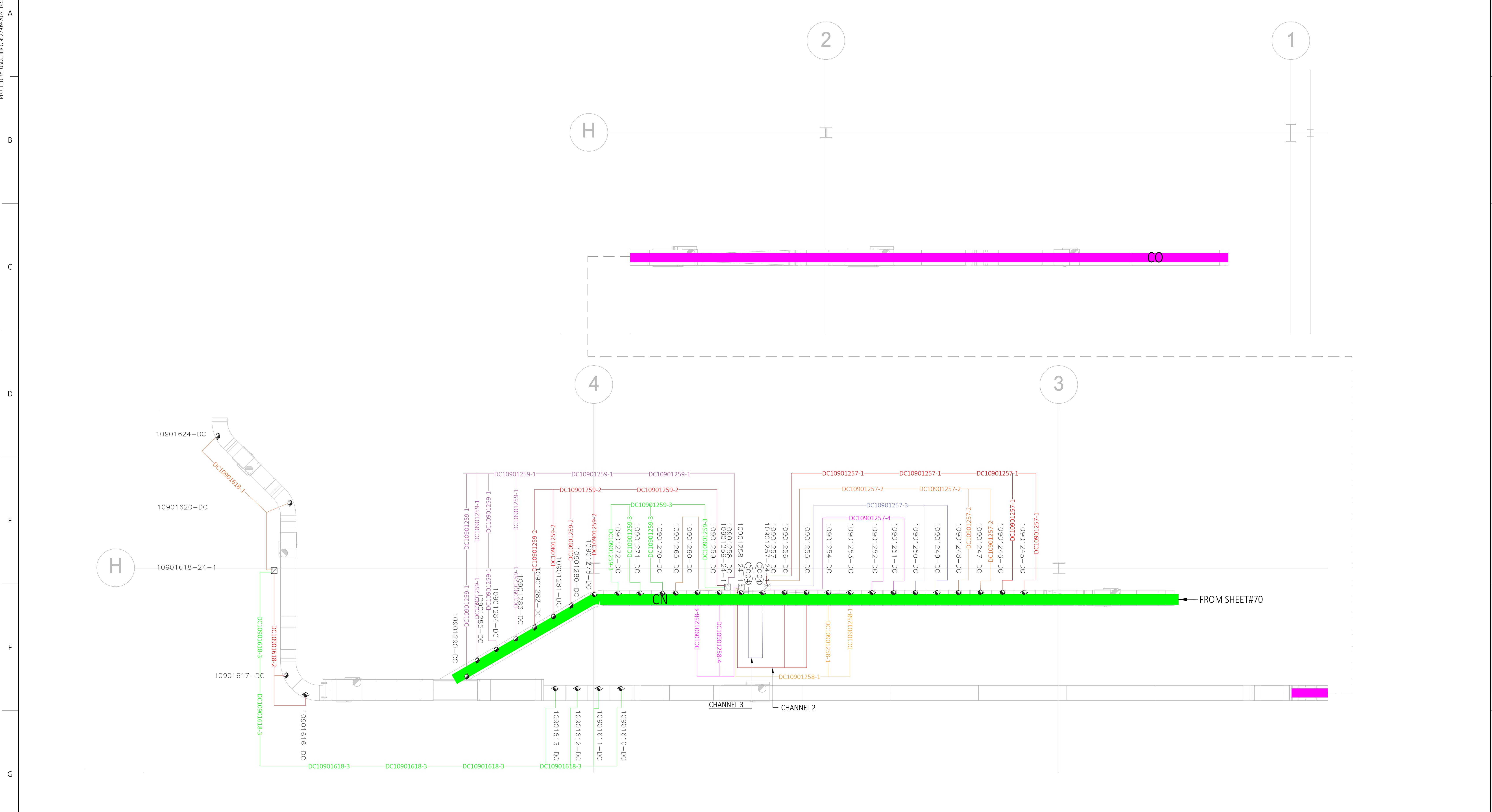


REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION					
						CUSTOMER : ...				
						LOCATION :				
						CUSTOMER DRAWING #: DAB2-E-070				
						STATUS:				
						AS BUILT				
						DRAWN : USTWILM		TITLE : CP1090 - DOCK SORTER (SPO)		
						DATE : 07/06/2023		DC POWER GROUP LAYOUT		
						SCALE : NTS				
						NUMBER :	29332-431-11090	SHT: 070	EN	REV.:
										C01

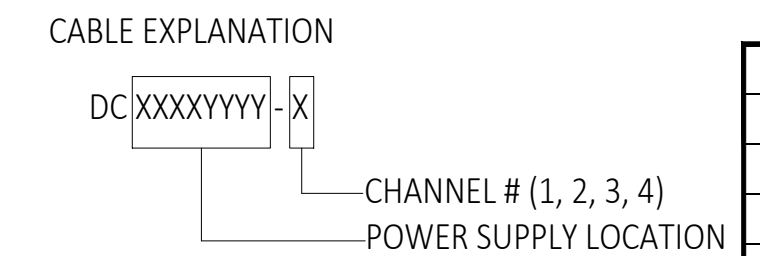
C01 USDCHEK USMVHI USMVHI 09/27/2024 AS BUILT

DC POWER GROUP LAYOUT - TOTE DIVERT AND THROW-ON LINE

FILENAME: 29332-431-11090-071.DWG
 PLOTTED BY: USDCHEK ON: 27/09/2024 14:59
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- NOTES:**
1. REFER TO SHEET 003 FOR DEVICE SYMBOL LEGEND
 2. REFER TO SHEET 904 FOR 24-1 (NON-CLASS 2) POWER SUPPLY PANEL TYPICAL
 3. REFER TO SHEET 906 FOR 24V (CLASS 2 AND NON-CLASS 2) POWER SUPPLY PANEL TYPICAL
 4. 24-1 POWER SUPPLY WITH "DC04" CODE SHOWING IS VI PART# N97500-174-00003
 - 4.1. 24-1 POWER SUPPLY WITH NO CODE SHOWING IS VI PART# N97500-174-00002
 5. REFER TO DC POWER GROUP LIST: VI DOCUMENT # 29332-452-31090

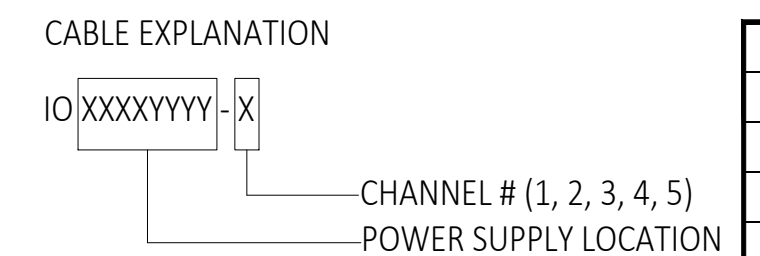
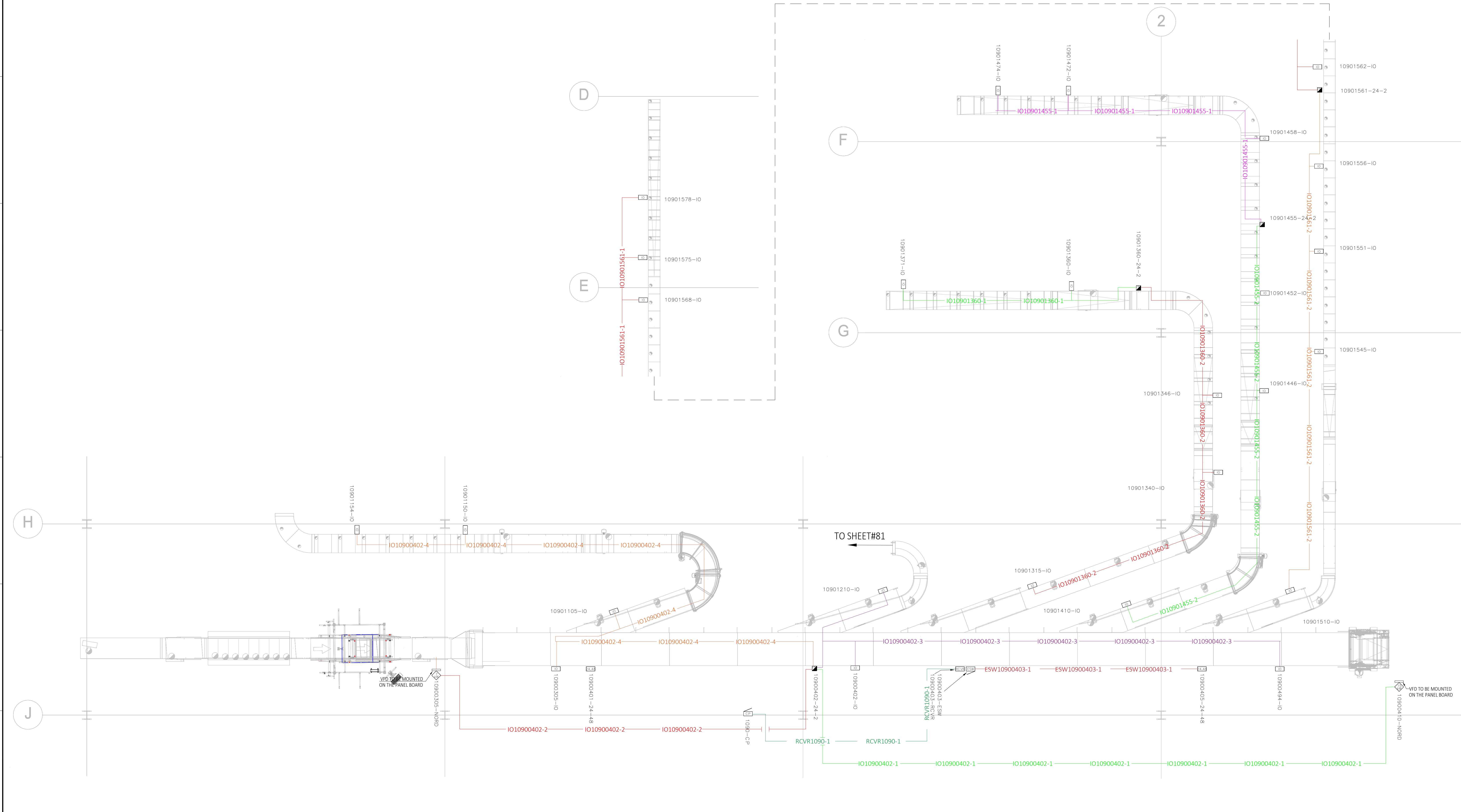


REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER: *****	
LOCATION: *****	
CUSTOMER DRAWING #: DAB2-E-071	
STATUS: AS BUILT	
DRAWN: USTWILM	TITLE: CP1090 - DOCK SORTER (SPO)
DATE: 07/06/2023	DC POWER GROUP LAYOUT
SCALE: NTS	NUMBER: 29332-431-11090
SHT: 071	EN
REV: C01	

IO POWER GROUP LAYOUT - MAIN LINE AND CASE DIVERTS

FILENAME: 29332-431-11090-080.DWG
 PLOTTED BY: USDCHEK ON: 27/06/2024 13:00
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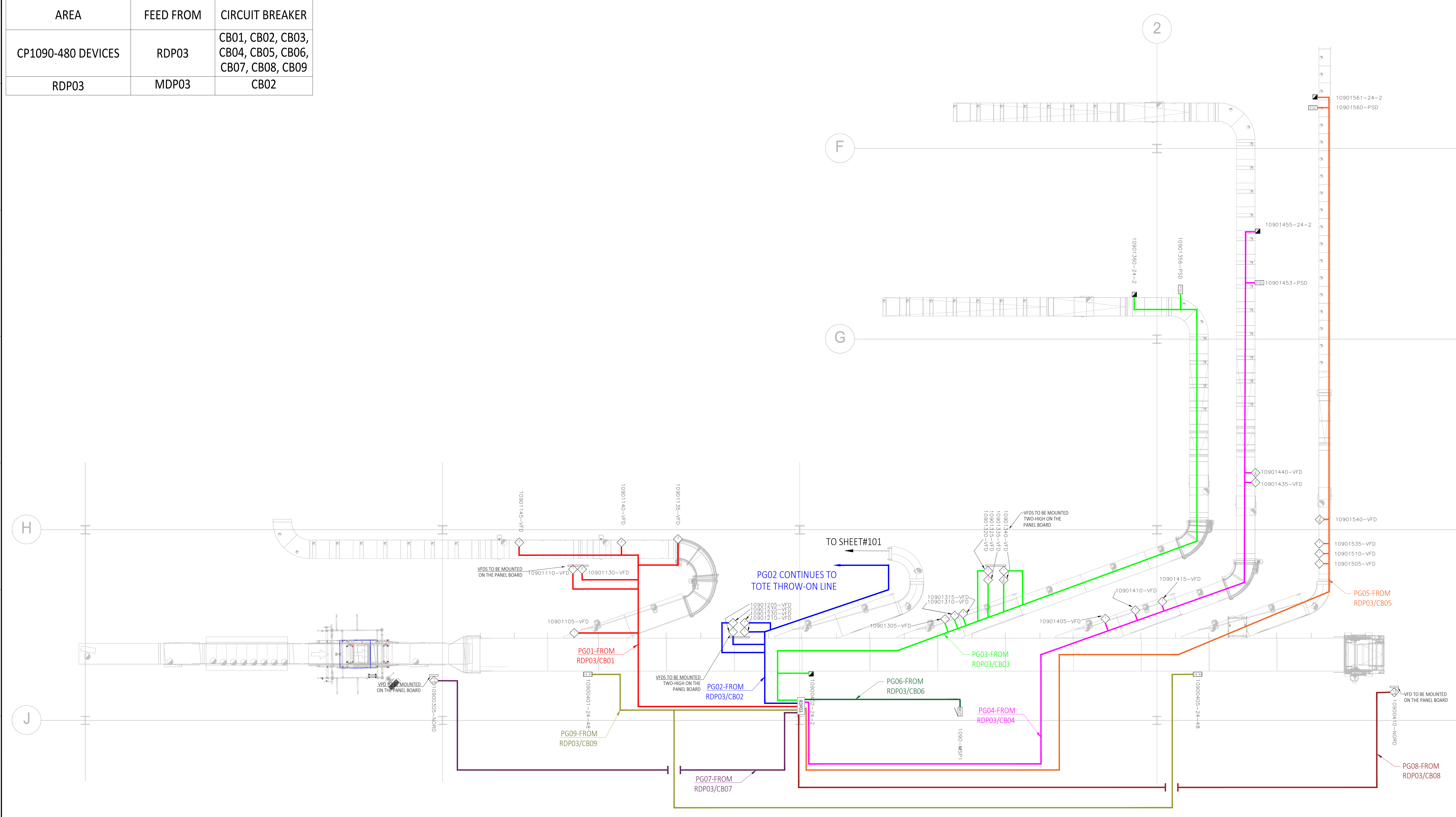
REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER			
LOCATION			
CUSTOMER DRAWING #:		DAB2-E-080	
STATUS:		AS BUILT	
DRAWN:		USTWILM	
DATE:		07/06/2023	
SCALE:		NTS	
NUMBER:	29332-431-11090	SHT:	080
EN		REV.:	C01

POWER FEED INFO FOR CP1090

AREA	FEED FROM	CIRCUIT BREAKER
CP1090-480 DEVICES	RDP03	CB01, CB02, CB03, CB04, CB05, CB06, CB07, CB08, CB09
RDP03	MDP03	CB02

480VAC POWER GROUP LAYOUT - MAIN LINE AND CASE DIVERTS



NOTES:

- REFER TO SHEET 003 FOR DEVICE SYMBOL LEGEND
- REFER TO SHEETS 200-299 FOR 480VAC POWER SINGLE LINE SCHEMATICS
- REFER TO SHEETS 900-908 FOR 480VAC DEVICE WIRING DETAILS
- THIS DOCUMENT IS FOR VISUAL REPRESENTATIONAL PURPOSES ONLY ACTUAL FIELD INSTALL AND ROUTING MAY DIFFER DUE TO ROUTING CONFLICTS, NEC CODE, SPEC, OR ANY OTHER ROUTING ISSUE THAT MAY ARISE ON SITE DUE TO BUILDING IRREGULARITIES OR CODES.

REV.	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

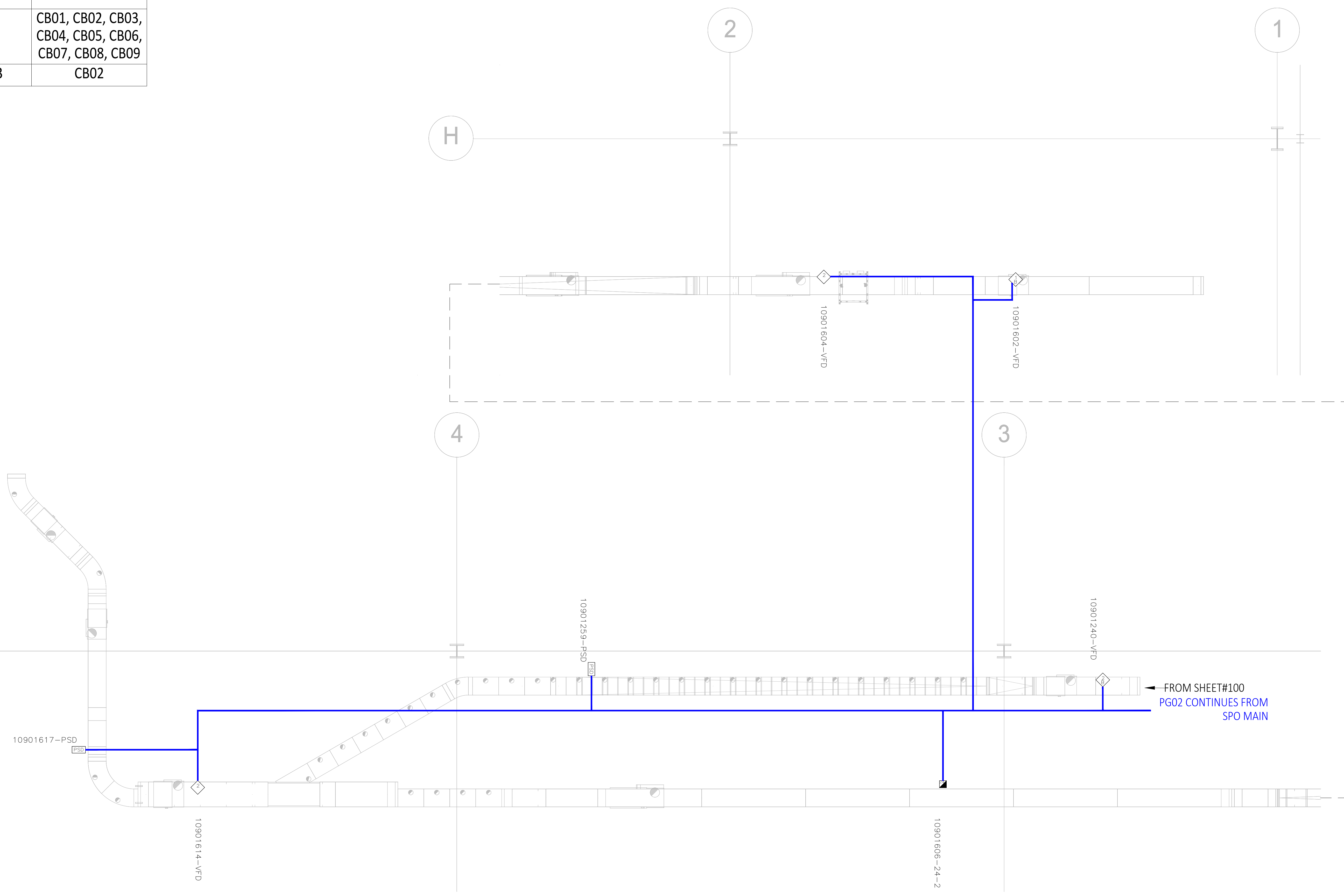
CUSTOMER :	AS BUILT
LOCATION :	CP1090 - DOCK SORTER (SPO)
CUSTOMER DRAWING #:	DAB2-E-100
STATUS:	AS BUILT
DRAWN :	USTWILM
DATE :	07/06/2023
SCALE :	NTS
TITLE :	480VAC POWER LAYOUT
NUMBER :	29332-431-11090
SHT:	100
EN	EN
REV.:	C01

FILENAME: 29332-431-11090-100.DWG
 PLOTTED BY: USDCHER ON: 27/09/2024 13:02
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POWER FEED INFO FOR CP1090

AREA	FEED FROM	CIRCUIT BREAKER
CP1090-480 DEVICES	RDP03	CB01, CB02, CB03, CB04, CB05, CB06, CB07, CB08, CB09
RDP03	MDP03	CB02

480VAC POWER GROUP LAYOUT - TOTE DIVERT AND THROW-ON LINE



NOTES:

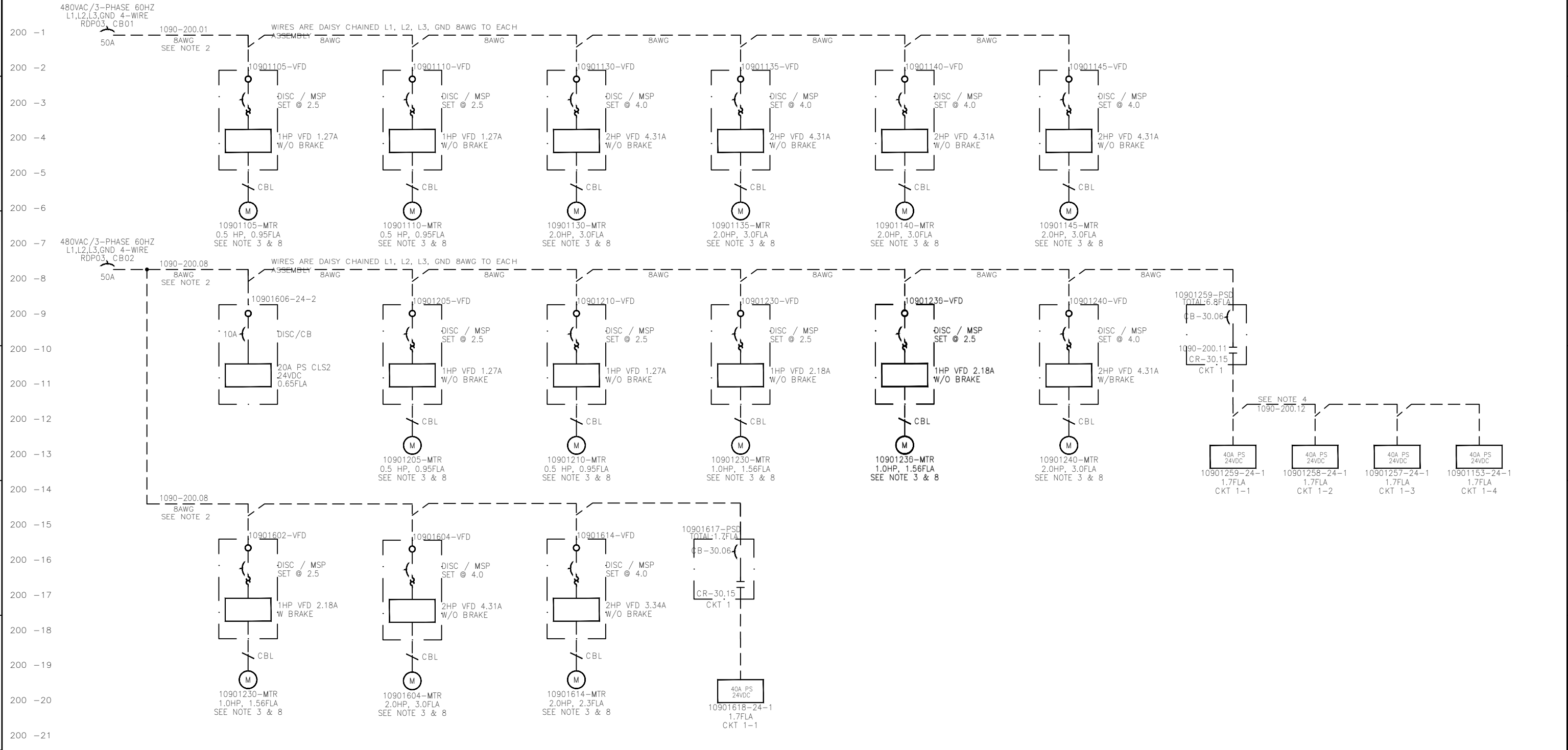
- REFER TO SHEET 003 FOR DEVICE SYMBOL LEGEND
- REFER TO SHEETS 200-299 FOR 480VAC POWER SINGLE LINE SCHEMATICS
- REFER TO SHEETS 900-908 FOR 480VAC DEVICE WIRING DETAILS
- THIS DOCUMENT IS FOR VISUAL REPRESENTATIONAL PURPOSES ONLY ACTUAL FIELD INSTALL AND ROUTING MAY DIFFER DUE TO ROUTING CONFLICTS, NEC CODE, SPEC, OR ANY OTHER ROUTING ISSUE THAT MAY ARISE ON SITE DUE TO BUILDING IRREGULARITIES OR CODES.

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER : *****	
LOCATION :	
CUSTOMER DRAWING #: DAB2-E- - 101	
STATUS:	AS BUILT
DRAWN : USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)
DATE : 07/06/2023	480VAC POWER LAYOUT
SCALE : NTS	NUMBER : 29332-431 -11090
	SHT: 101
	EN
	REV: C01

FILENAME: 29332-431-11090-101.DWG
 PLOTTED BY: USDCHER ON: 27/09/2024 13:02
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FILENAME: 29332-431-11090-000.DWG
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**3 PHASE WIRE NUMBERING SHALL FOLLOW
(AREA-RUNG NUMBER+PHASE #)**
 L1=0101-200.10-L1
 L2=0101-200.10-L2
 L3=0101-200.10-L3

L1=0101-200.10A-L1
 L2=0101-200.10A-L2
 L3=0101-200.10A-L3

L1=0101-200.10B-L1
 L2=0101-200.10B-L2
 L3=0101-200.10B-L3

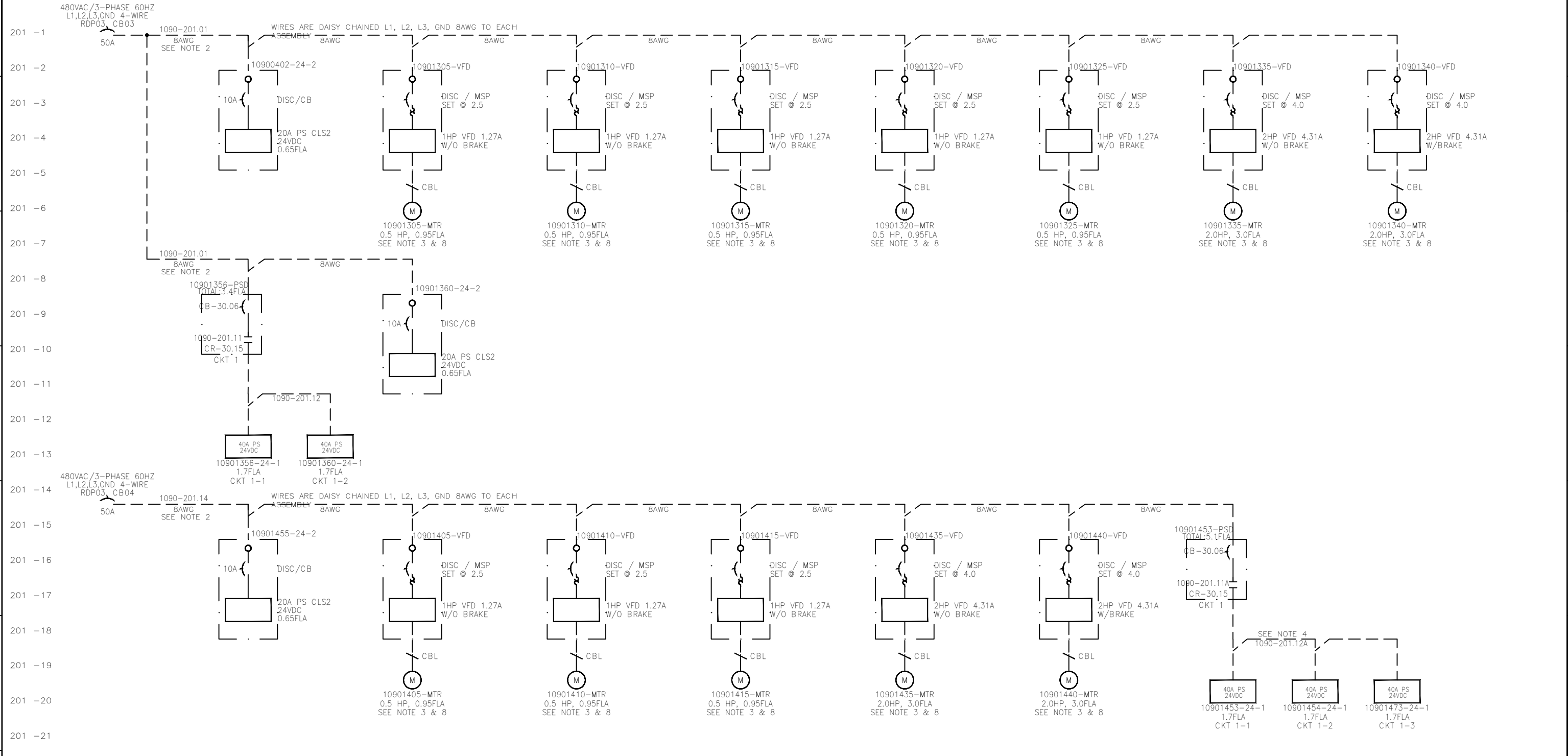
- NOTES:**
- WIRE SIZE PROVIDED AS MINIMUM REQUIRED. VOLTAGE DROP AND DERATING CALCULATIONS SHALL BE COMPLETED BY INSTALLERS. USE COPPER CONDUCTOR WIRE 90° C MINIMUM FOR FIELD WIRING
 - ALL 480VAC POWER WIRING TO BE CONDUCTOR COLOR: BROWN=L1, ORANGE=L2, YELLOW=L3, GND=GREEN
 - ALL DEVICE IDs FOR VFDs, DISCONNECTS, & CBLs SHOULD MATCH THE CONVEYOR # SHOWN ON THE MOTOR.
 - WIRES ARE DAISY CHAINED L1, L2, L3 (12 AWG), GND (GRN 12AWG) TO EACH ASSEMBLY.
 - MAX QUANTITY OF 4 (24-1) PWS ON ANY MSP, PSD CIRCUIT
 - WIRE NUMBERING SHALL FOLLOW: AREA-RUNG NUMBER-PHASE #
 L1=0101-200.08-L1, L2=0101-200.08-L2, L3=0101-200.08-L3
 - EACH MOTOR GETS AN INDIVIDUAL L1, L2, L3, GND 12AWG RUN FROM EACH MOTOR CIRCUIT IN THE MSP TO EACH DISCONNECT
 - MOTOR FLA TO BE VERIFIED FROM MOTOR NAMEPLATE ON SITE
 - THIS DOCUMENT IS FOR VISUAL REPRESENTATIONAL PURPOSES ONLY ACTUAL FIELD INSTALL AND ROUTING MAY DIFFER DUE TO ROUTING CONFLICTS, NEC CODE, SPEC, OR ANY OTHER ROUTING ISSUE THAT MAY ARISE ON SITE DUE TO BUILDING IRREGULARITIES OR CODES.

- REFERENCES:**
- REFER TO SHT 900-902 FOR VFD WIRING DETAIL
 - REFER TO SHT 903 FOR MSP WIRING DETAIL
 - REFER TO SHT 904 FOR 24-1 WIRING DETAIL
 - REFER TO SHT 905 FOR 24-2 WIRING DETAIL
 - REFER TO SHT 906 FOR 24V DUAL PS WIRING DETAIL
 - REFER TO SHT 907 FOR 24/48V DUAL PS WIRING DETAIL
 - REFER TO LAYOUT SHEETS FOR ETHERNET TO/FROM WIRING DETAIL
 - REFER TO LAYOUT SHEETS FOR STO TO/FROM WIRING DETAIL

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- - 200
STATUS:		AS BUILT
DRAWN :		USTWILM
DATE :		07/06/2023
TITLE :		CP1090 - DOCK SORTER (SPO) SINGLE LINE SCHEMATICS
SCALE :	NUMBER :	29332-431-11090
SHT :	SHT :	200
EN :	REV.:	C01

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3 PHASE WIRE NUMBERING SHALL FOLLOW (AREA-RUNG NUMBER+PHASE #)
 L1=0101-200.10-L1
 L2=0101-200.10-L2
 L3=0101-200.10-L3

L1=0101-200.10A-L1
 L2=0101-200.10A-L2
 L3=0101-200.10A-L3

L1=0101-200.10B-L1
 L2=0101-200.10B-L2
 L3=0101-200.10B-L3

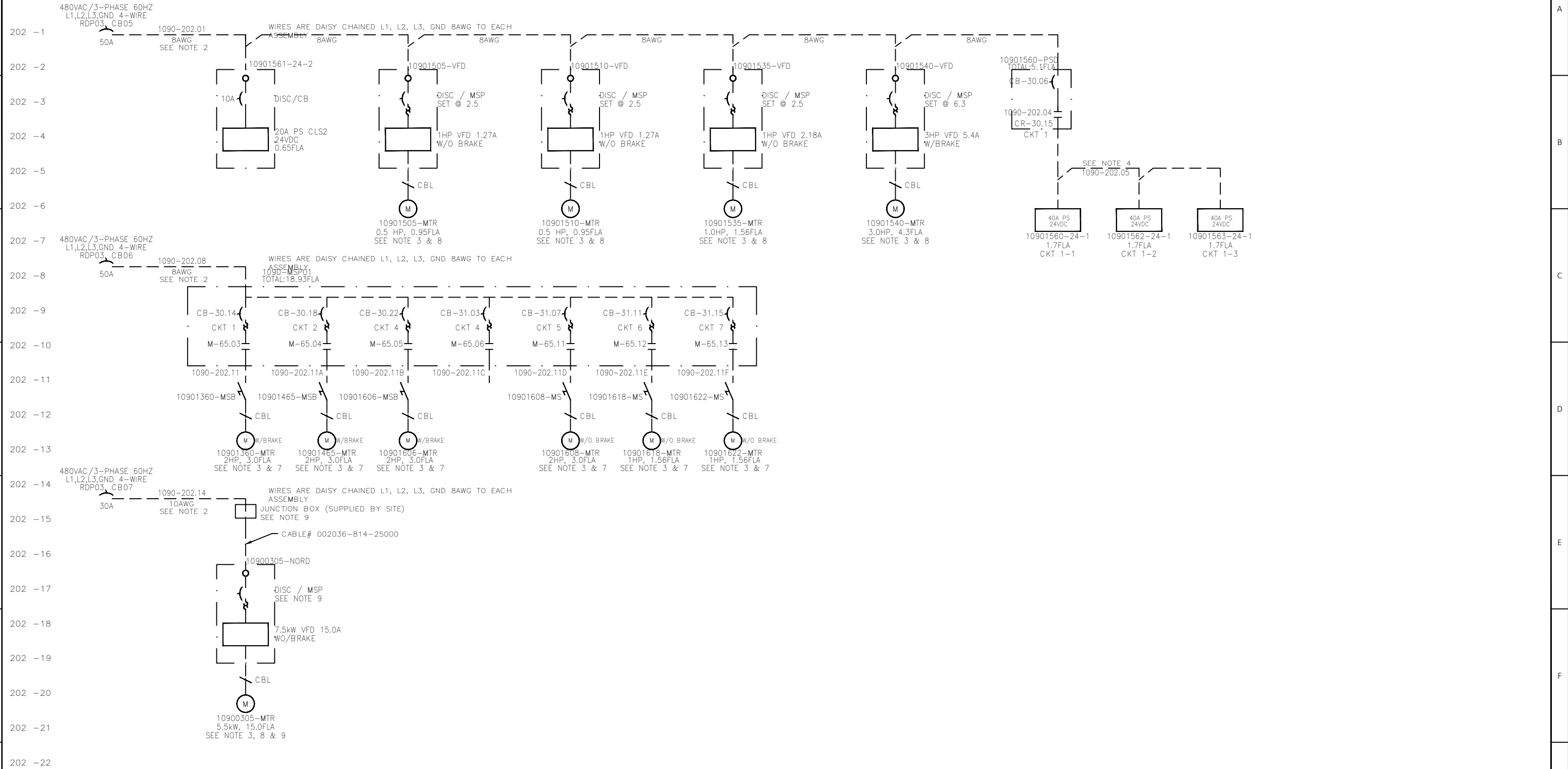
- NOTES:**
- WIRE SIZE PROVIDED AS MINIMUM REQUIRED. VOLTAGE DROP AND DERATING CALCULATIONS SHALL BE COMPLETED BY INSTALLERS. USE COPPER CONDUCTOR WIRE 90° C MINIMUM FOR FIELD WIRING
 - ALL 480VAC POWER WIRING TO BE CONDUCTOR COLOR: BROWN=L1, ORANGE=L2, YELLOW=L3, GND=GREEN
 - ALL DEVICE IDS FOR VFDs, DISCONNECTS, & CBLs SHOULD MATCH THE CONVEYOR # SHOWN ON THE MOTOR.
 - WIRES ARE DAISY CHAINED L1, L2, L3 (12 AWG), GND (GRN 12AWG) TO EACH ASSEMBLY.
 - MAX QUANTITY OF 4 (24-1) PWS ON ANY MSP, PSD CIRCUIT
 - WIRE NUMBERING SHALL FOLLOW: AREA-RUNG NUMBER-PHASE #
 L1="0101-200.08-L1", L2="0101-200.08-L2", L3="0101-200.08-L3"
 - EACH MOTOR GETS AN INDIVIDUAL L1, L2, L3, GND 12AWG RUN FROM EACH MOTOR CIRCUIT IN THE MSP TO EACH DISCONNECT
 - MOTOR FLA TO BE VERIFIED FROM MOTOR NAMEPLATE ON SITE
 - THIS DOCUMENT IS FOR VISUAL REPRESENTATIONAL PURPOSES ONLY ACTUAL FIELD INSTALL AND ROUTING MAY DIFFER DUE TO ROUTING CONFLICTS, NEC CODE, SPEC, OR ANY OTHER ROUTING ISSUE THAT MAY ARISE ON SITE DUE TO BUILDING IRREGULARITIES OR CODES.

- REFERENCES:**
- REFER TO SHT 900-902 FOR VFD WIRING DETAIL
 - REFER TO SHT 903 FOR MSP WIRING DETAIL
 - REFER TO SHT 904 FOR 24-1 WIRING DETAIL
 - REFER TO SHT 905 FOR 24-2 WIRING DETAIL
 - REFER TO SHT 906 FOR 24V DUAL PS WIRING DETAIL
 - REFER TO SHT 907 FOR 24/48V DUAL PS WIRING DETAIL
 - REFER TO LAYOUT SHEETS FOR ETHERNET TO/FROM WIRING DETAIL
 - REFER TO LAYOUT SHEETS FOR STO TO/FROM WIRING DETAIL

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :			
LOCATION :			
CUSTOMER DRAWING #:		DAB2-E- - 201	
STATUS:		AS BUILT	
DRAWN :		USTWILM	
DATE :		07/06/2023	
TITLE :		CP1090 - DOCK SORTER (SPO) SINGLE LINE SCHEMATICS	
SCALE :	NTS	NUMBER :	29332-431-11090
SHT :	201	EN :	REV.:
			C01

FILENAME: 29332-431-11090-202.DWG
 PLOTTED BY: USDCHEM ON: 27/09/2024 15:03



3 PHASE WIRE NUMBERING SHALL FOLLOW (AREA-RUNG NUMBER+PHASE #)
 L1=0101-200.10-L1
 L2=0101-200.10-L2
 L3=0101-200.10-L3

L1=0101-200.10A-L1
 L2=0101-200.10A-L2
 L3=0101-200.10A-L3

L1=0101-200.10B-L1
 L2=0101-200.10B-L2
 L3=0101-200.10B-L3

- NOTES:**
- WIRE SIZE PROVIDED AS MINIMUM REQUIRED. VOLTAGE DROP AND DERATING CALCULATIONS SHALL BE COMPLETED BY INSTALLERS. USE COPPER CONDUCTOR WIRE 90° C MINIMUM FOR FIELD WIRING
 - ALL 480VAC POWER WIRING TO BE CONDUCTOR COLOR: BROWN=L1, ORANGE=L2, YELLOW=L3, GND=GREEN
 - ALL DEVICE IDs FOR VFDs, DISCONNECTS, & CBLs SHOULD MATCH THE CONVEYOR # SHOWN ON THE MOTOR.
 - WIRES ARE DAISY CHAINED L1, L2, L3 (12 AWG), GND (GRN 12AWG) TO EACH ASSEMBLY.
 - MAX QUANTITY OF 4 (24-1) PWS ON ANY MSP, PSD CIRCUIT
 - WIRE NUMBERING SHALL FOLLOW: AREA-RUNG NUMBER-PHASE #
 L1="0101-200.08-L1", L2="0101-200.08-L2", L3="0101-200.08-L3"
 - EACH MOTOR GETS AN INDIVIDUAL L1, L2, L3, GND 12AWG RUN FROM EACH MOTOR CIRCUIT IN THE MSP TO EACH DISCONNECT
 - MOTOR FLA TO BE VERIFIED FROM MOTOR NAMEPLATE ON SITE
 - REFER TO 30123-431-9980E102 FOR NORD POWER INSTALLATION DETAILS
 - THIS DOCUMENT IS FOR VISUAL REPRESENTATIONAL PURPOSES ONLY ACTUAL FIELD INSTALL AND ROUTING MAY DIFFER DUE TO ROUTING CONFLICTS, NEC CODE SPEC, OR ANY OTHER ROUTING ISSUE THAT MAY ARISE ON SITE DUE TO BUILDING IRREGULARITIES OR CODES.

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 - REFER TO SHT 903 FOR MSP WIRING DETAIL
 - REFER TO SHT 904 FOR 24-1 WIRING DETAIL
 - REFER TO SHT 905 FOR 24-2 WIRING DETAIL
 - REFER TO SHT 906 FOR 24V DUAL PS WIRING DETAIL
 - REFER TO SHT 907 FOR 24/48V DUAL PS WIRING DETAIL
 - REFER TO LAYOUT SHEETS FOR ETHERNET TO/FROM WIRING DETAIL
 - REFER TO LAYOUT SHEETS FOR STO TO/FROM WIRING DETAIL

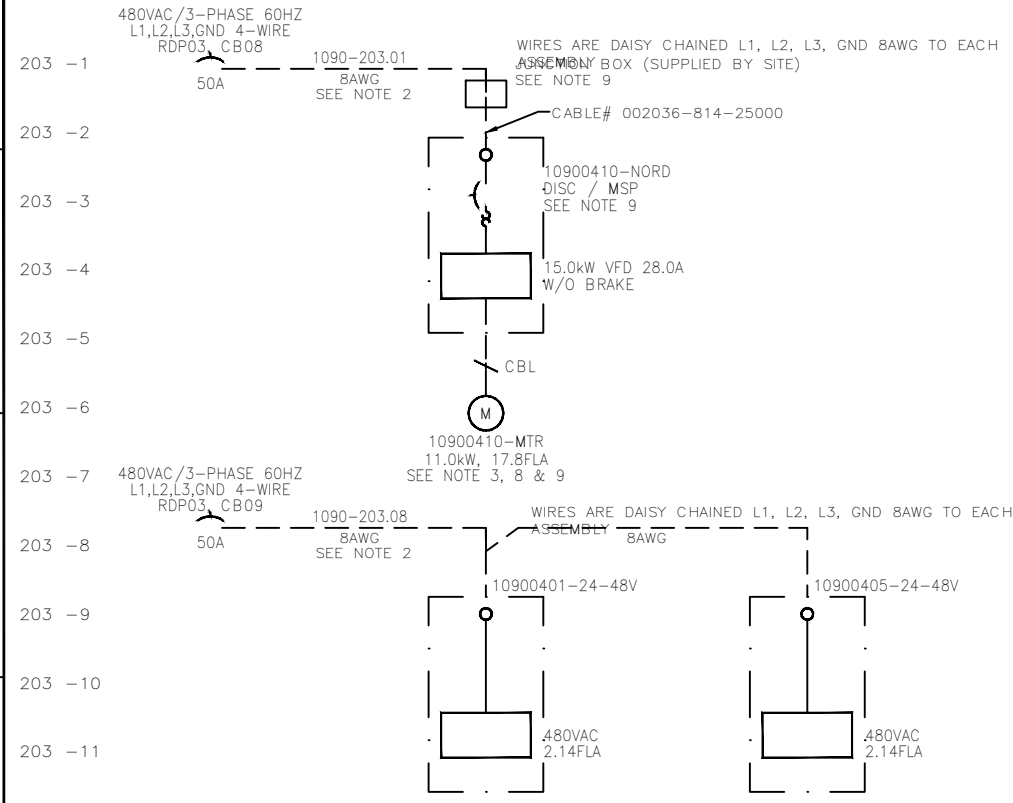
REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHEM	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :			
LOCATION :			
CUSTOMER DRAWING #: DAB2-E- - 202			
STATUS:		AS BUILT	
DRAWN: USTWILM		TITLE: CP1090 - DOCK SORTER (SPO)	
DATE: 07/06/2023		SINGLE LINE SCHEMATICS	
SCALE: NTS		NUMBER: 29332-431-11090	SHT: 202
		EN	REV: C01

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FILENAME: 29332-431-11090-03.DWG
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**3 PHASE WIRE NUMBERING SHALL FOLLOW
 (AREA-RUNG NUMBER+PHASE #)**
 L1=0101-200.10-L1
 L2=0101-200.10-L2
 L3=0101-200.10-L3

L1=0101-200.10A-L1
 L2=0101-200.10A-L2
 L3=0101-200.10A-L3

L1=0101-200.10B-L1
 L2=0101-200.10B-L2
 L3=0101-200.10B-L3

- NOTES:**
1. WIRE SIZE PROVIDED AS MINIMUM REQUIRED. VOLTAGE DROP AND DERATING CALCULATIONS SHALL BE COMPLETED BY INSTALLERS. USE COPPER CONDUCTOR WIRE 90° C MINIMUM FOR FIELD WIRING
 2. ALL 480VAC POWER WIRING TO BE CONDUCTOR COLOR: BROWN=L1, ORANGE=L2, YELLOW=L3, GND=GREEN
 3. ALL DEVICE IDs FOR VFDs, DISCONNECTS, & CBLs SHOULD MATCH THE CONVEYOR # SHOWN ON THE MOTOR.
 4. WIRES ARE DAISY CHAINED L1, L2, L3 (12 AWG), GND (GRN 12AWG) TO EACH ASSEMBLY.
 5. MAX QUANTITY OF 4 (24-1) PWS ON ANY MSP, PSD CIRCUIT
 6. WIRE NUMBERING SHALL FOLLOW: AREA-RUNG NUMBER-PHASE #
 L1="0101-200.08-L1", L2="0101-200.08-L2", L3="0101-200.08-L3"
 7. EACH MOTOR GETS AN INDIVIDUAL L1, L2, L3, GND 12AWG RUN FROM EACH MOTOR CIRCUIT IN THE MSP TO EACH DISCONNECT
 8. MOTOR FLA TO BE VERIFIED FROM MOTOR NAMEPLATE ON SITE
 9. REFER TO 30123-431-9980E/02 FOR NORD POWER INSTALLATION DETAILS
 10. THIS DOCUMENT IS FOR VISUAL REPRESENTATIONAL PURPOSES ONLY ACTUAL FIELD INSTALL AND ROUTING MAY DIFFER DUE TO ROUTING CONFLICTS, NEC CODE SPEC, OR ANY OTHER ROUTING ISSUE THAT MAY ARISE ON SITE DUE TO BUILDING IRREGULARITIES OR CODES.

- REFERENCES:**
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 2. REFER TO SHT 903 FOR MSP WIRING DETAIL
 3. REFER TO SHT 904 FOR 24-1 WIRING DETAIL
 4. REFER TO SHT 905 FOR 24-2 WIRING DETAIL
 5. REFER TO SHT 906 FOR 24V DUAL PS WIRING DETAIL
 6. REFER TO SHT 907 FOR 24/48V DUAL PS WIRING DETAIL
 7. REFER TO LAYOUT SHEETS FOR ETHERNET TO/FROM WIRING DETAIL
 8. REFER TO LAYOUT SHEETS FOR STO TO/FROM WIRING DETAIL

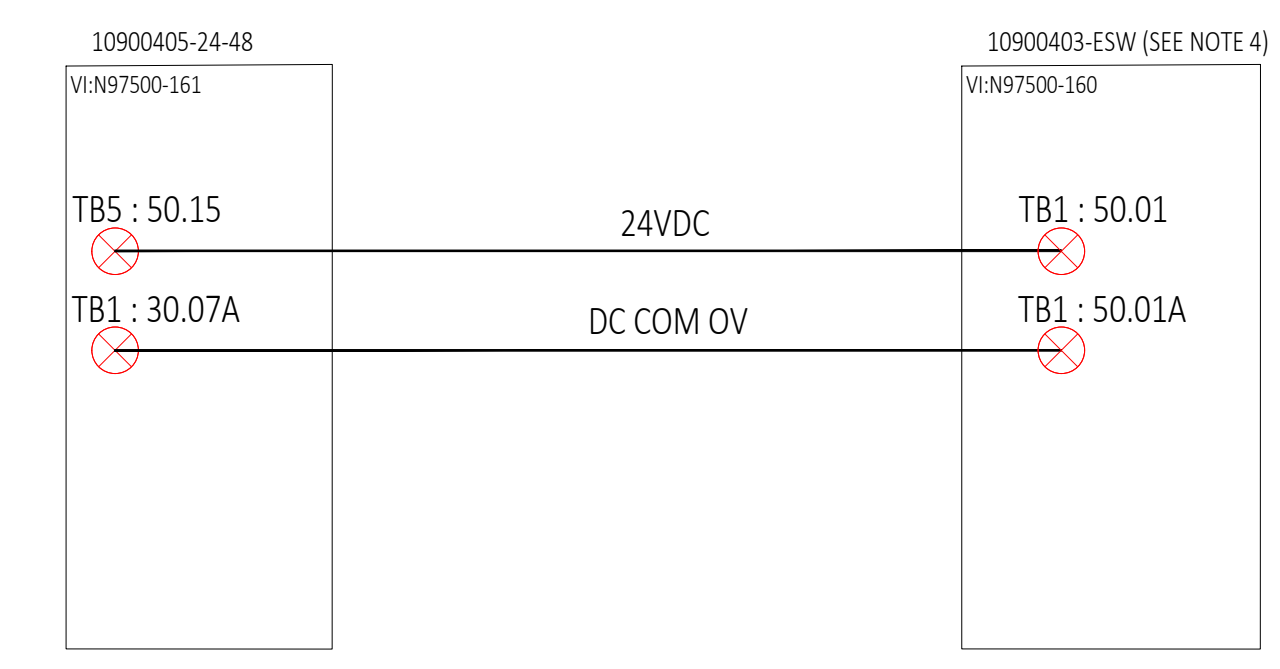
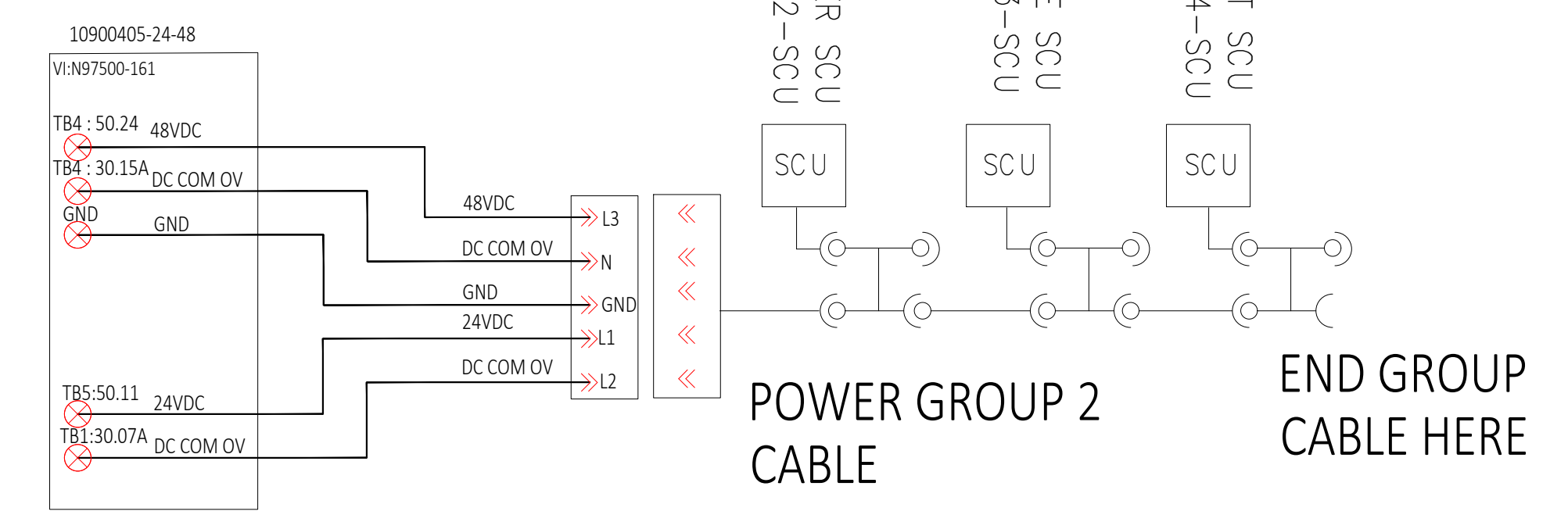
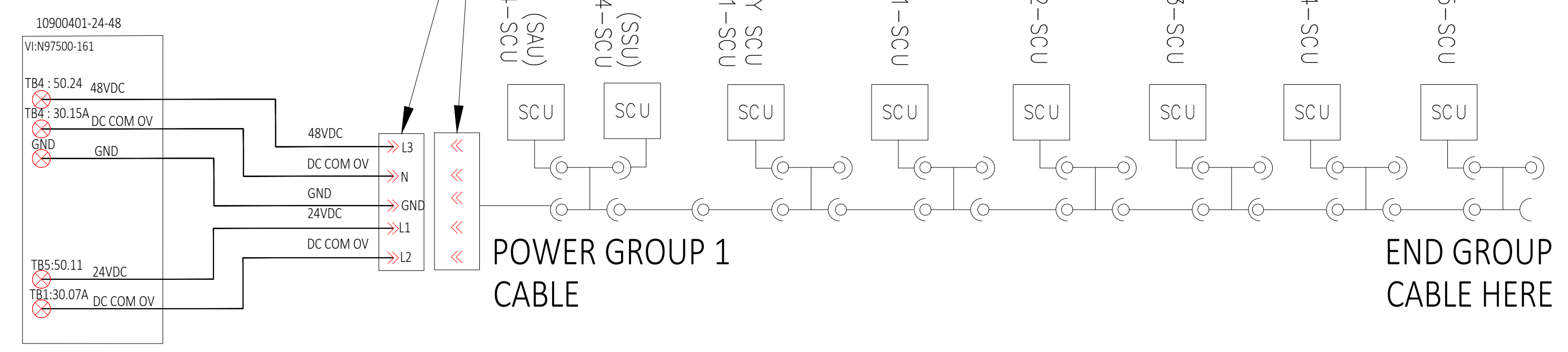
REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #: DAB2-E-		- 203
STATUS:		AS BUILT
DRAWN : USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)	
DATE : 07/06/2023	SINGLE LINE SCHEMATICS	
SCALE : NTS	NUMBER : 29332-431-11090	SHT: 203
		EN
		REV.: C01

FILENAME: 29332-431-11090-400.DWG
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WAGO PRE ASSEMBLED CABLE
 771-9995/017-081 or 771-9995/017-041
 (VI PART# 006002-16997/006002-17006)

24/48VDC TO SCU'S



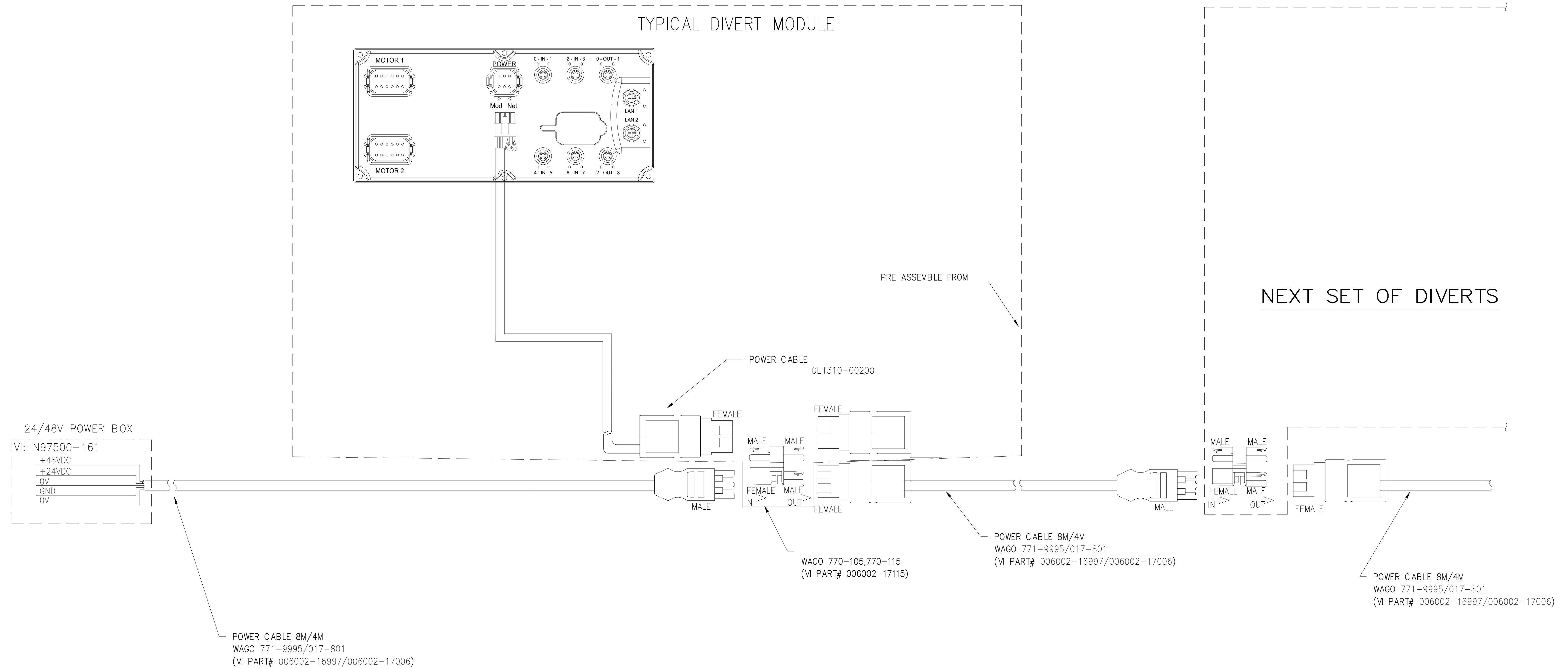
NOTES:

1. REFER TO SHEET 907 FOR 24-48VDC POWER SUPPLY PANEL TYPICAL
2. MAX NUMBER OF SCUs PER POWER SUPPLY IS 8. REMOVE THE SCUs IN THE CIRCUIT AS NEEDED TO MATCH THE LAYOUTS
3. PRE-ASSEMBLED CABLES COME IN 2 LENGTHS: 8m (006002-16997) AND 4m (006002-17006). DETERMINE SCU POWER CABLE LENGTHS TO ORDER
 - 3.1. MEASURE DISTANCE BETWEEN POWER SUPPLY AND FIRST SCU
 - 3.2. MEASURE DISTANCES BETWEEN EACH SCU
4. ESW IS POWERED FROM NEAREST 24-48VDC POWER SUPPLY

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- - 400
STATUS:		AS BUILT
DRAWN :	USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)
DATE :	07/06/2023	SPO SCU POWER DISTRIBUTION
SCALE :	NTS	
NUMBER :	29332-431 -11090	SHT: 400
		EN
		REV: C01

SCU TYPICAL POWER CONNECTION DETAIL



NOTES:

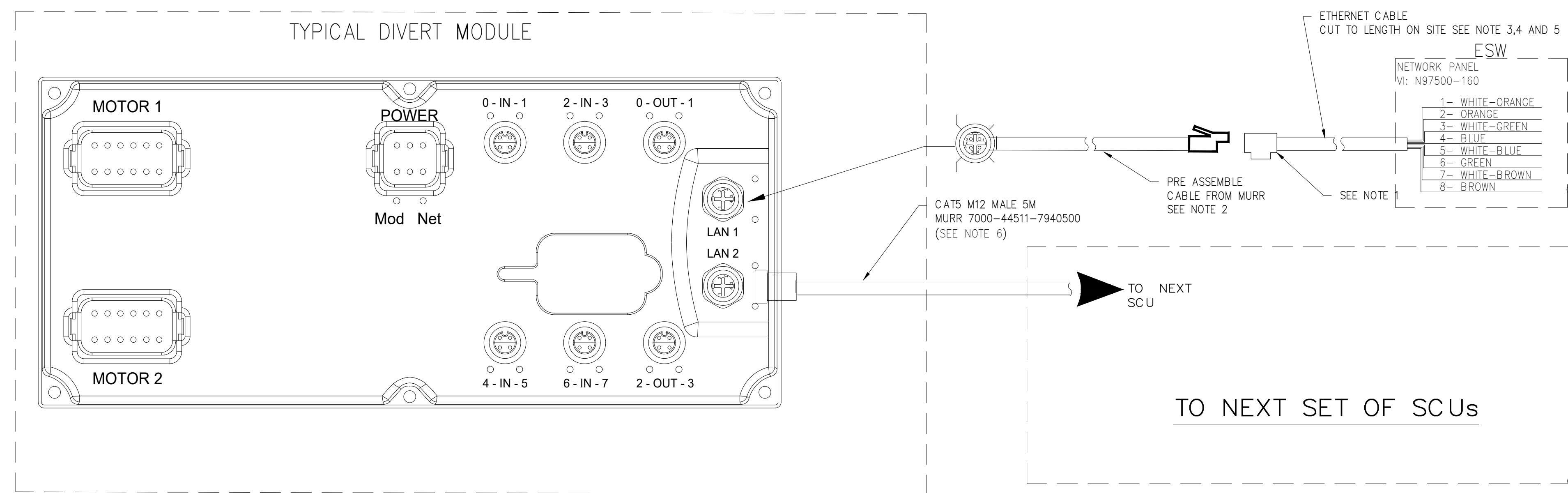
- FOR CONNECTION TO SCU POWER PANEL, USE WAGO 771-9995/017-801
- CUT OPEN TO CONNECT TO THE PANEL TERMINAL BLOCKS
- FOR CONNECTION TO OTHER MODULE, PLUG INTO PREVIOUS MODULE'S CABLE

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- 401
STATUS:		AS BUILT
DRAWN :	USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)
DATE :	07/06/2023	SCU TYPICAL POWER CONNECTION DETAIL
SCALE :	NTS	
NUMBER :	29332-431-11090	SHT: 401
		EN
		REV: C01

FILENAME: 29332-431-11090-002.DWG
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NOTES:

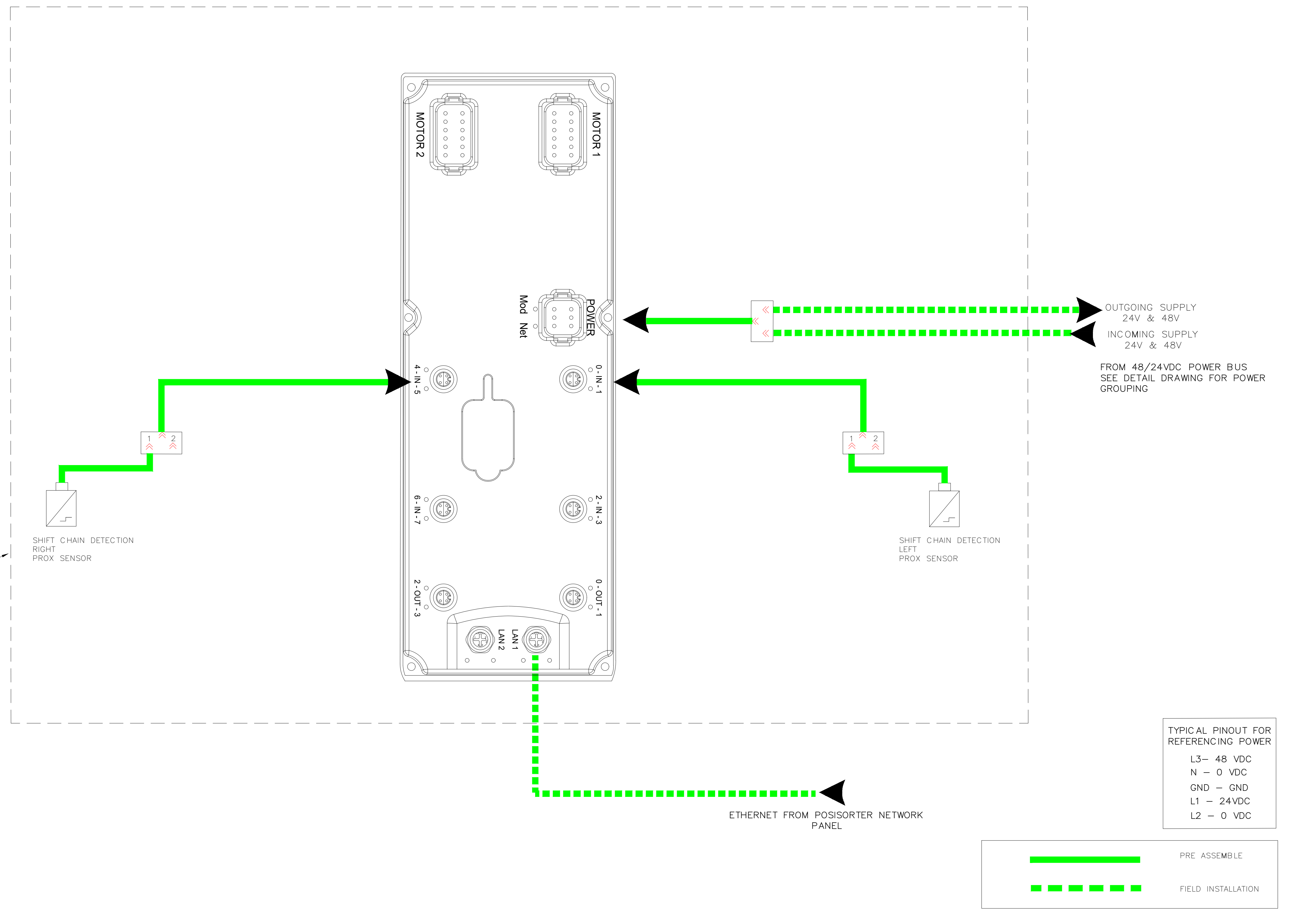
1. SURFACE MOUNT BOX VI: N93302-5009 AND RJ45 CAT5 8PIN JACK MODULE VI: N93302-50005 SUPPLIED BY VI INSTALL IN THE FIELD.
2. M12/RJ45 MALE ETHERNET CABLE VI: N94100-77007 SUPPLIED BY VI INSTALL IN THE FIELD.
3. ETHERNET CABLE WITH MALE TO FEMALE CONNECTOR SUPPLY & INSTALL IN THE FIELD.
4. ETHERNET CABLE TO BE CUT TO SUITABLE LENGTH BETWEEN SCU AND NETWORK PANEL.
5. ETHERNET CABLE TO BE TERMINATED AT NETWORK PANEL CISCO SWITCH
6. ETHERNET CABLE VI PART #: 005301-01819 = 4M/005301-01825 = 10M/005301-01830-20M SUPPLIED BY VI, INSTALLED IN THE FIELD

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION					
						CUSTOMER :				
						LOCATION :				
						CUSTOMER DRAWING #: DAB2-E- - 402				
						STATUS:				
						AS BUILT				
						DRAWN : USTWILM		TITLE : CP1090 - DOCK SORTER (SPO)		
						DATE : 07/06/2023		SCU ETHERNET CONNECTION DETAIL		
						SCALE : NTS				
								NUMBER : 29332-431-11090		SHT: 402
								EN		REV.:
C01	USDCHEER	USMVHI	USMVHI	09/27/2024	AS BUILT			D		C01

FILENAME: 29332-431-11090-404.DWG
 PLOTTED BY: USDCHEK ON: 27/06/2024 15:04
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SCU I/O Overview

Inputs:	Descriptions	Outputs	Descriptions
IN.0	PS Shift chain detection left	OUT.0	-- Spare --
IN.1	-- Spare --	OUT.1	-- Spare --
IN.2	-- Spare --	OUT.2	-- Spare --
IN.3	-- Spare --	OUT.3	-- Spare --
IN.4	PS Shift chain detection right		
IN.5	-- Spare --		
IN.6	-- Spare --	Motor 1	-- Spare --
IN.7	-- Spare --	Motor 2	-- Spare --
LAN.1	Industrial Ethernet from Posisorter netw.		
LAN.2	Industrial Ethernet from Posisorter netw.		

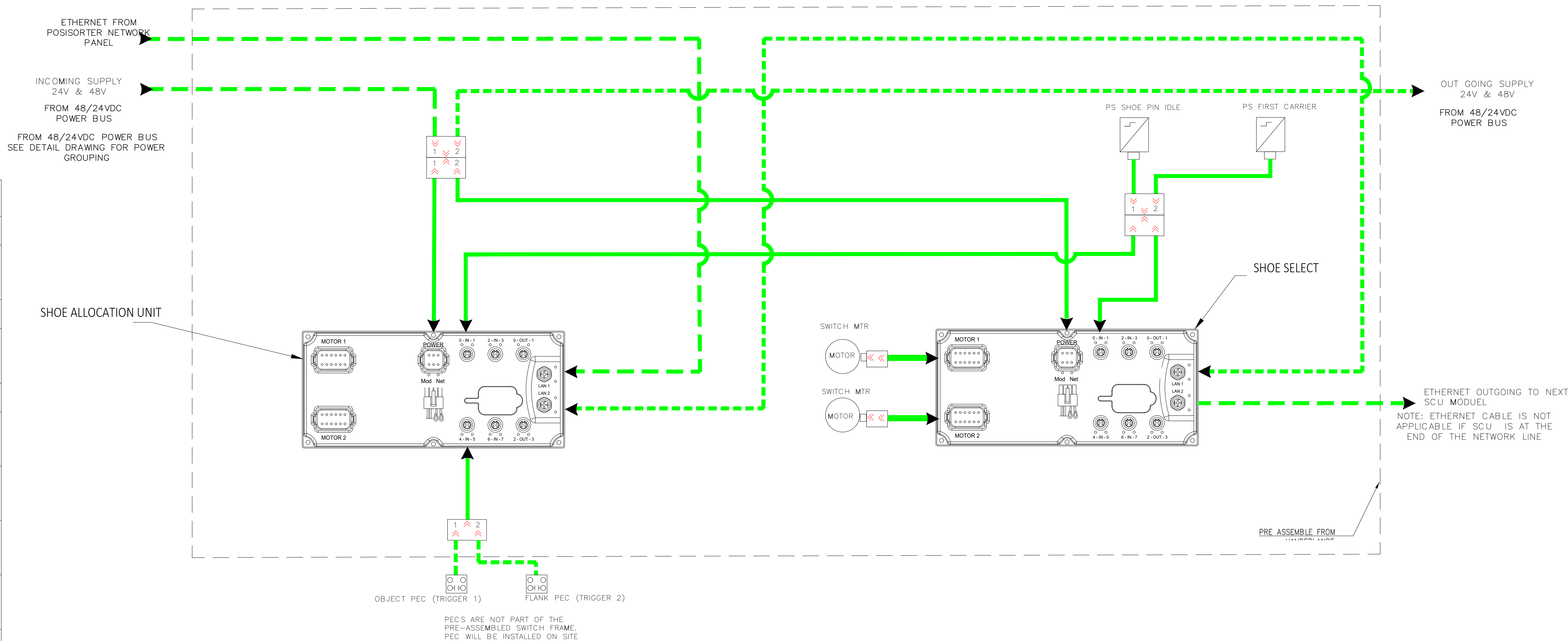


REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION						
						CUSTOMER					
						LOCATION					
						CUSTOMER DRAWING #: DAB2-E- 403					
						STATUS: AS BUILT					
						DRAWN : USTWILM		TITLE : CP1090 - DOCK SORTER (SPO)			
						DATE : 07/06/2023		SCU ENTRY MODULE TYPICAL			
						SCALE : NTS					
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT			NUMBER : 29332-431-11090	SHT: 403	EN	REV.: C01

SCU SHOE ALLOCATION AND SHOE SELECT TYPICAL

Shoe Allocation Unit (SAU) SCU I/O Overview			
Inputs:	Descriptions	Outputs	Descriptions
IN.0	PS Shoe Pin Idle	OUT.0	-- Spare -- (Install M12 Blind Plug)
IN.1	PS First Carrier	OUT.1	-Spare-
IN.2	-- Spare -- (Install M12 Blind Plug)	OUT.2	-- Spare -- (Install M12 Blind Plug)
IN.3	--Spare--	OUT.3	-- Spare --
IN.4	CIOxx Object PEC (Trigger 1)		
IN.5	CIOXX Flank PEC (Trigger 2)		
IN.6	-- Spare -- (Install M12 Blind Plug)	Motor 1	-- spare -- (install m12 blind plug)
IN.7	--Spare--	Motor 2	-- spare -- (install m12 blind plug)
LAN.1	Industrial Ethernet from Posisorter netw. (IN)		
LAN.2	Industrial Ethernet from Posisorter netw. (OUT)		

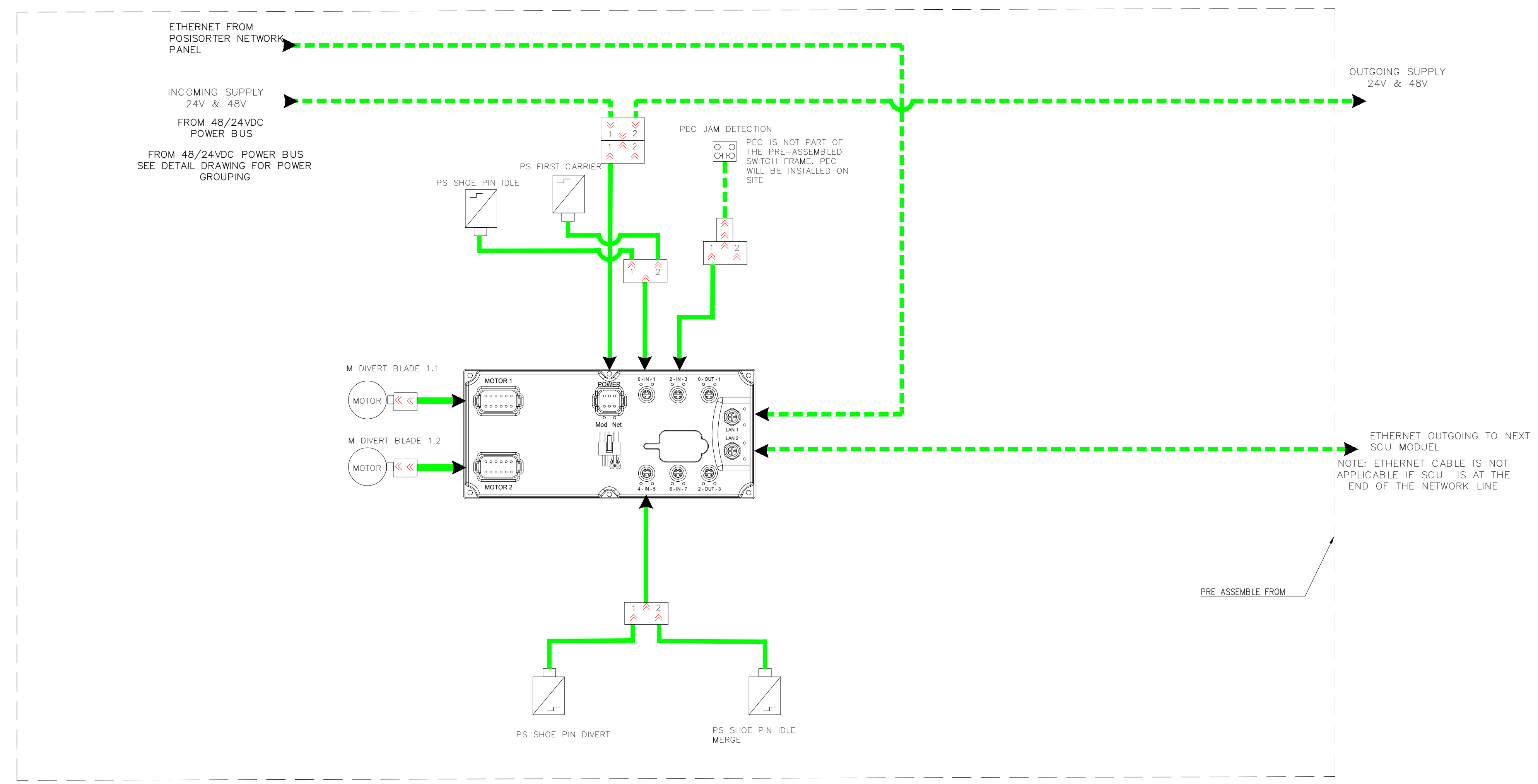
Shoe Select Unit SCU I/O Overview			
Inputs:	Descriptions	Outputs	Descriptions
IN.0	PS Shoe Pin Idle	OUT.0	-- Spare -- (Install M12 Blind Plug)
IN.1	PS First Carrier	OUT.1	-Spare-
IN.2	-- Spare -- (Install M12 Blind Plug)	OUT.2	-- Spare -- (Install M12 Blind Plug)
IN.3	--Spare--	OUT.3	-- Spare --
IN.4	-- Spare -- (Install M12 Blind Plug)		
IN.5	-- Spare --		
IN.6	-- Spare -- (Install M12 Blind Plug)	Motor 1	Divert blade 1.1
IN.7	--Spare--	Motor 2	Divert blade 1.2
LAN.1	Industrial Ethernet from Posisorter netw. (IN)		
LAN.2	Industrial Ethernet from Posisorter netw. (OUT)		



REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :	
LOCATION :	
CUSTOMER DRAWING #:	DAB2-E- 404
STATUS:	AS BUILT
DRAWN :	USTWILM
DATE :	07/06/2023
SCALE :	NTS
TITLE :	CP1090 - DOCK SORTER (SPO) SCU SHOE ALLOCATION AND SHOE SELECT TYPICAL
NUMBER :	29332-431-11090
SHT:	404
EN	
REV.:	C01

FILENAME: 29332-431-11090-405.DWG
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Divert Switch frame 31/32 * Single-Left/Right Divert Blade 1

Inputs:	Descriptions	Outputs	Descriptions
IN.0	PS Shoe pin idle	OUT.0	-Spare
IN.1	PS First carrier	OUT.1	-Spare-
IN.2	PEC Jam detection	OUT.2	-Spare-
IN.3	--Spare--	OUT.3	-- Spare --
IN.4	PS Shoe pin divert		
IN.5	PS Shoe pin Idle merge		
IN.6	--Spare--	Motor 1	Divert blade 1.1
IN.7	--Spare--	Motor 2	Divert blade 1.2
LAN.1	Industrial Ethernet from Posisorter netw. (IN)		
LAN.2	Industrial Ethernet from Posisorter netw. (OUT)		

TYPICAL PINOUT FOR REFERENCING POWER
 L3 - 48 VDC
 N - 0 VDC
 GND - GND
 L1 - 24VDC
 L2 - 0 VDC

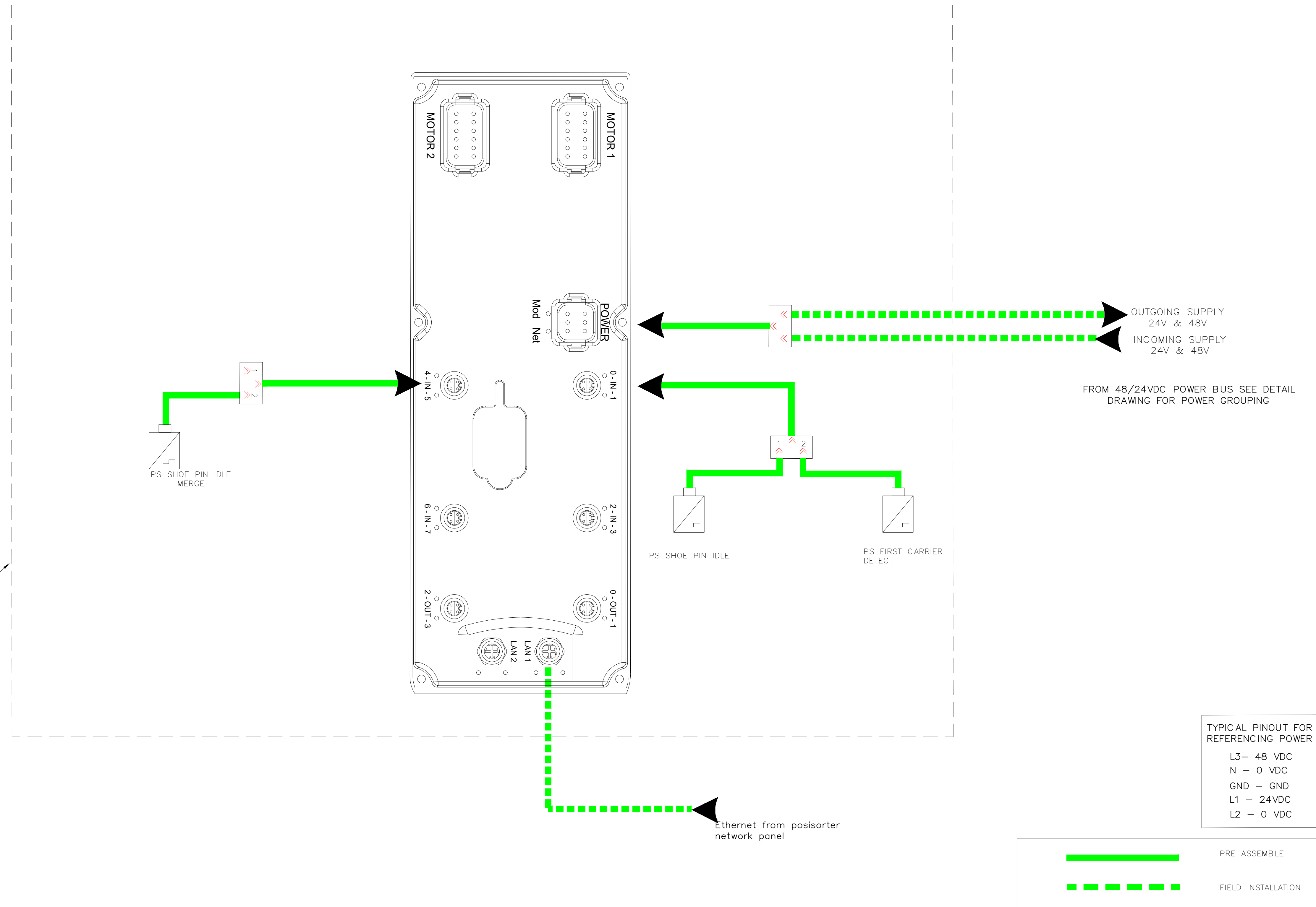


REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHEK	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- - 405
STATUS:	AS BUILT	
DRAWN :	USTWILM	
DATE :	07/06/2023	
SCALE :	NTS	
NUMBER :	29332-431-11090	SHT: 405
EN	EN	REV.: C01

TYPICAL

SCU I/O Overview			
Inputs:	Descriptions	Outputs	Descriptions
IN.0	PS Shoe pin Idle	OUT.0	-- Spare --
IN.1	PS First carrier detected	OUT.1	-- Spare --
IN.2	-- Spare --	OUT.2	-- Spare --
IN.3	-- Spare --	OUT.3	-- Spare --
IN.4	-- Spare --		
IN.5	PS Shoe pin Idle merge		
IN.6	--Spare--	Motor 1	-- Spare --
IN.7	--Spare--	Motor 2	-- Spare --
LAN.1	Industrial Ethernet from Posisorter netw.		
LAN.2	Industrial Ethernet from Posisorter netw.		



REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :	
LOCATION :	
CUSTOMER DRAWING #:	DAB2-E-406
STATUS:	AS BUILT
DRAWN :	USTWILM
DATE :	07/06/2023
SCALE :	NTS

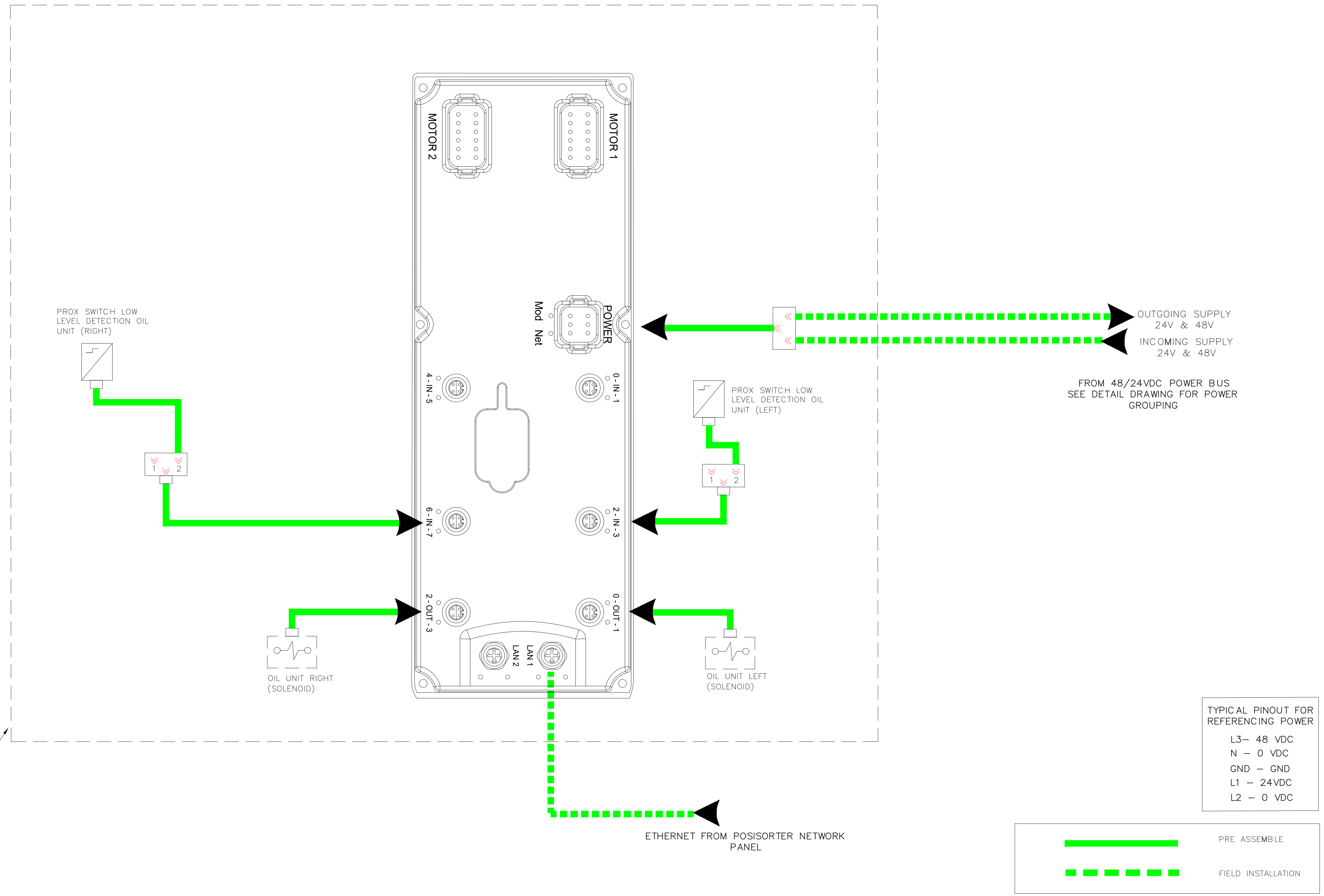
TITLE :	CP1090 - DOCK SORTER (SPO)
	SCU SHOE MERGE CHECKER WIRING TYPICAL
NUMBER :	29332-431-11090
SHT:	406
EN	
REV.:	C01

FILENAME: 29332-431-11090-007.DWG
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FILENAME: 29332-431-11090-408.DWG
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SCU I/O Overview

Inputs:	Descriptions	Outputs	Descriptions
IN.0	-- Spare -- (Install M12 Blind plug)	OUT.0	Oil Unit (Left)
IN.1	-- Spare --	OUT.1	-- Spare --
IN.2	-- Spare --	OUT.2	Oil Unit (Right)
IN.3	Low Level detection oil Unit (Left)	OUT.3	-- Spare --
IN.4	-- Spare -- (Install M12 Blind plug)		
IN.5	-- Spare --		
IN.6	-- Spare --	Motor 1	-- Spare -- (Install motor connection blind plug)
IN.7	Low level detection oil Unit (Right)	Motor 2	-- Spare -- (Install motor connection blind plug)
LAN.1	Industrial Ethernet from Posisorter netw.		
LAN.2	Industrial Ethernet from Posisorter netw.		



PRE ASSEMBLE FORM

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

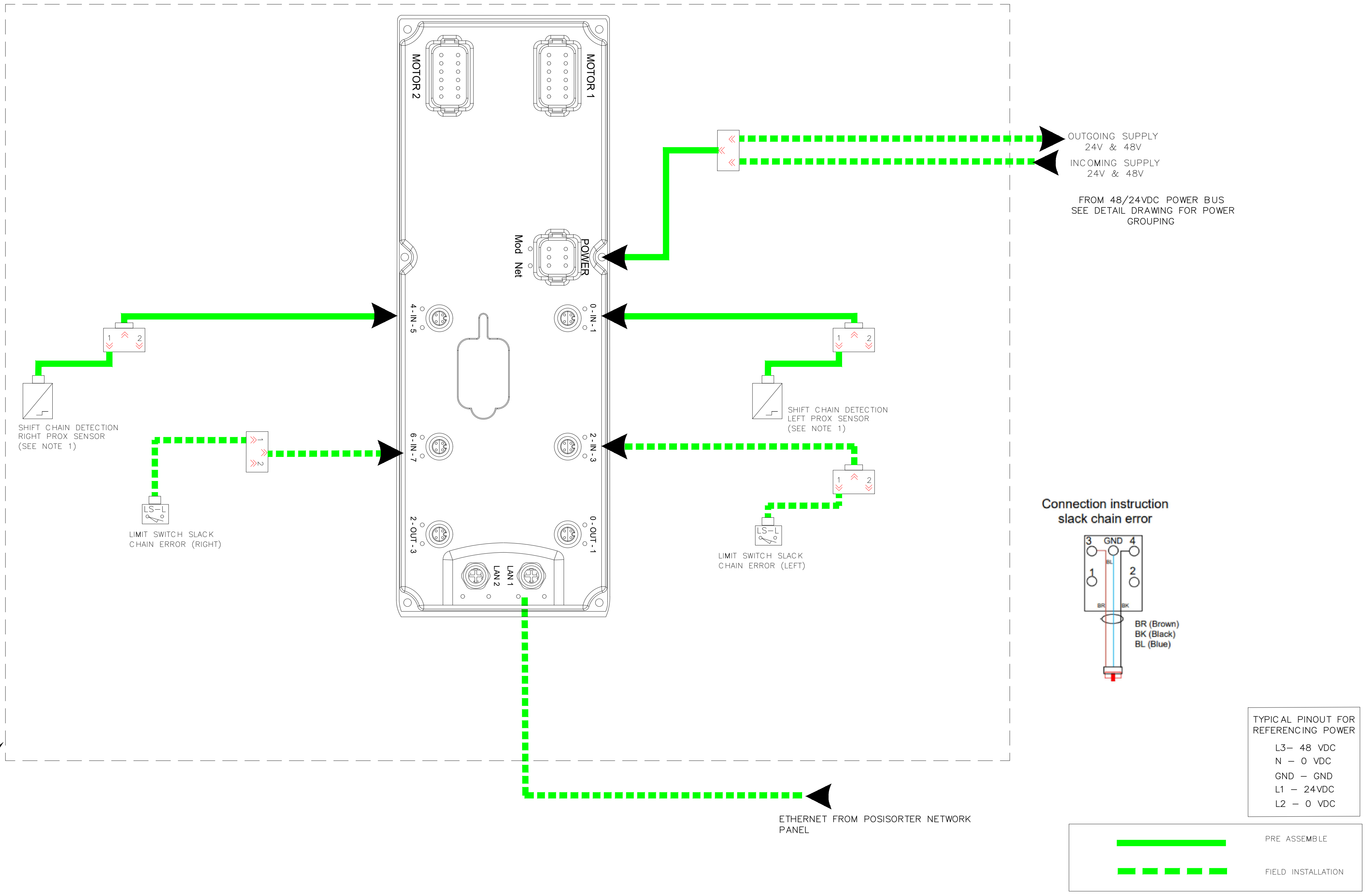
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DATE :		07/06/2023	
SCALE :		NTS	
NUMBER :		29332-431-11090	
SHT :		407	
EN :		EN	
REV.:		C01	

TITLE : CP1090 - DOCK SORTER (SPO)
SCU FOR SAFETY WEDGE MODULE TYPICAL

FILENAME: 29332-431-11090-408.DWG
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SCU I/O Overview

Inputs:	Descriptions	Outputs	Descriptions
IN.0	PS Shift chain detection Left	OUT.0	-- Spare -- (Install M12 blind plug)
IN.1	-- Spare --	OUT.1	-- Spare --
IN.2	Limit Switch Slack chain error Left	OUT.2	-- Spare -- (Install M12 blind plug)
IN.3	-- Spare --	OUT.3	-- Spare --
IN.4	PS Shift Chain Detection Right		
IN.5	-- Spare --		
IN.6	Limit Switch Slack Chain error	Motor 1	-- Spare -- (install motor connection blind plug)
IN.7	-- Spare --	Motor 2	-- Spare -- (install motor connection blind plug)
LAN.1	Industrial Ethernet from Posisorter netw.		
LAN.2	-- Spare -- (Install M12 blind plug)		

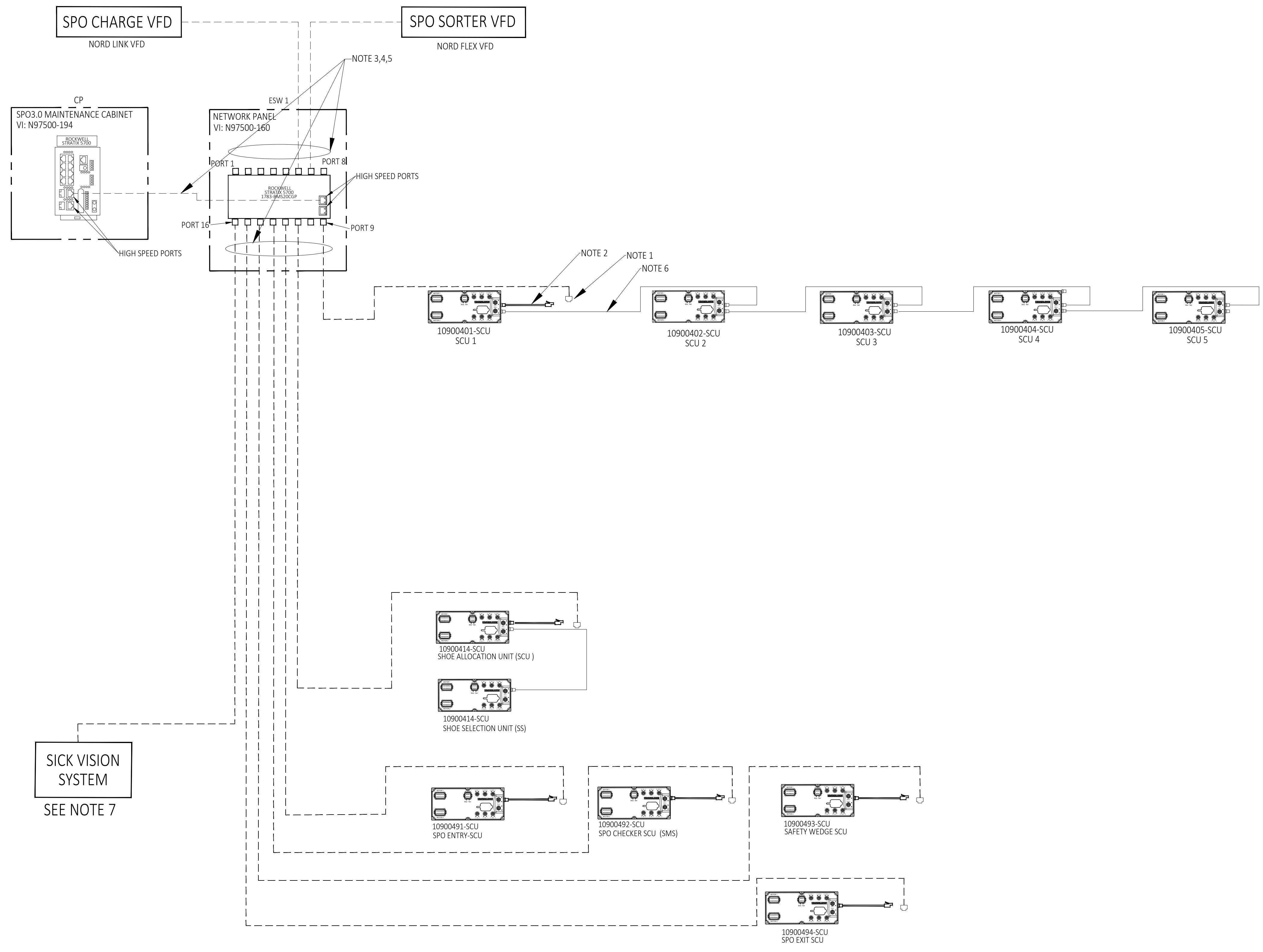


NOTES:
 1. SHIFT CHAIN DETECTION SENSORS ARE SUPPLIED BY MECHANICAL. INSTALLATION SHALL PLUG THEM INTO THE SCU

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- 408
STATUS:		AS BUILT
DRAWN : USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)	
DATE : 07/06/2023	SCU FOR EXIT MODULE TYPICAL	
SCALE : NTS	NUMBER : 29332-431-11090	SHT: 408
	EN	REV: C01

SPO SCU NETWORK ARCHITECTURE



- NOTES:**
1. SURFACE MOUNT BOX VI: N93302-50009 AND RJ45 CAT5 8PIN JACK MODULE VI: N93302-50005 SUPPLIED BY VI AND INSTALLED IN THE FIELD.
 2. M12/RJ45 MALE ETHERNET CABLE VI: N94100-77007 SUPPLIED BY VI INSTALL AND INSTALLED IN THE FIELD.
 3. ETHERNET CABLE WITH MALE TO FEMALE CONNECTOR TO BE SUPPLIED & INSTALLED IN THE FIELD.
 4. ETHERNET CABLE TO BE CUT TO SUITABLE LENGTH BETWEEN SCU AND NETWORK PANEL.
 5. ETHERNET CABLE TO BE TERMINATED AT NETWORK PANEL STRATIX SWITCH.
 6. ETHERNET CABLE VI: 005301-01819=4M/005301-01825=10M/ 005301-01830=20M SUPPLIED BY VI AND INSTALLED IN THE FIELD.
 7. REFER TO DOC01031791 FOR TYPICAL CONNECTIONS TO MAKE WITH SICK SCANNER.

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

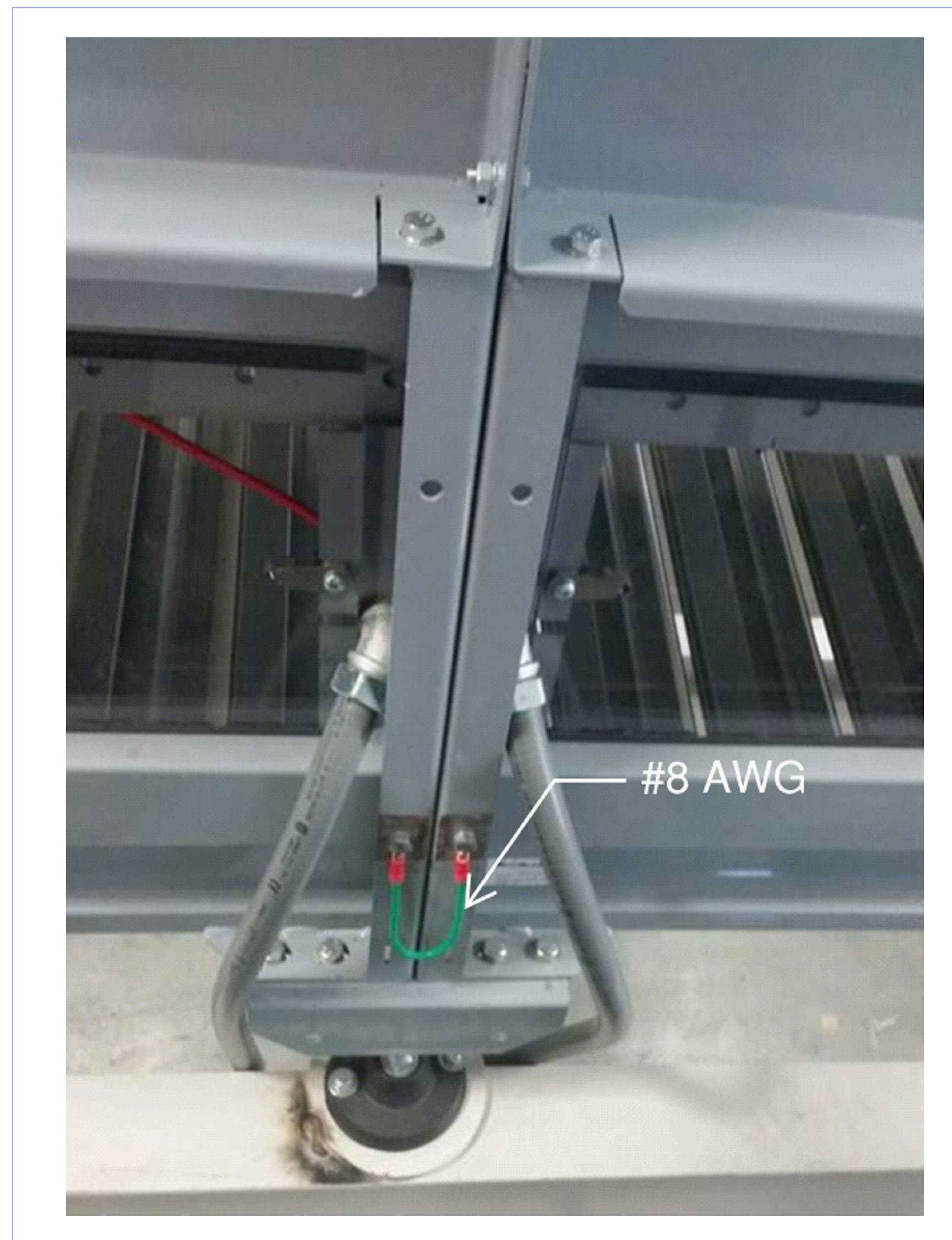
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LOCATION			
CUSTOMER DRAWING #: DAB2-E- - 409			
STATUS:		AS BUILT	
DRAWN : USTWILM		TITLE : CP1090 - DOCK SORTER (SPO)	
DATE : 07/06/2023		SPO SCU NETWORK ARCHITECTURE	
SCALE : NTS		NUMBER :	29332-431 -11090
		SHT: 409	EN
		REV.:	C01

FILENAME: 29332-431-11090-110.DWG
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GROUNDING HC - SPO



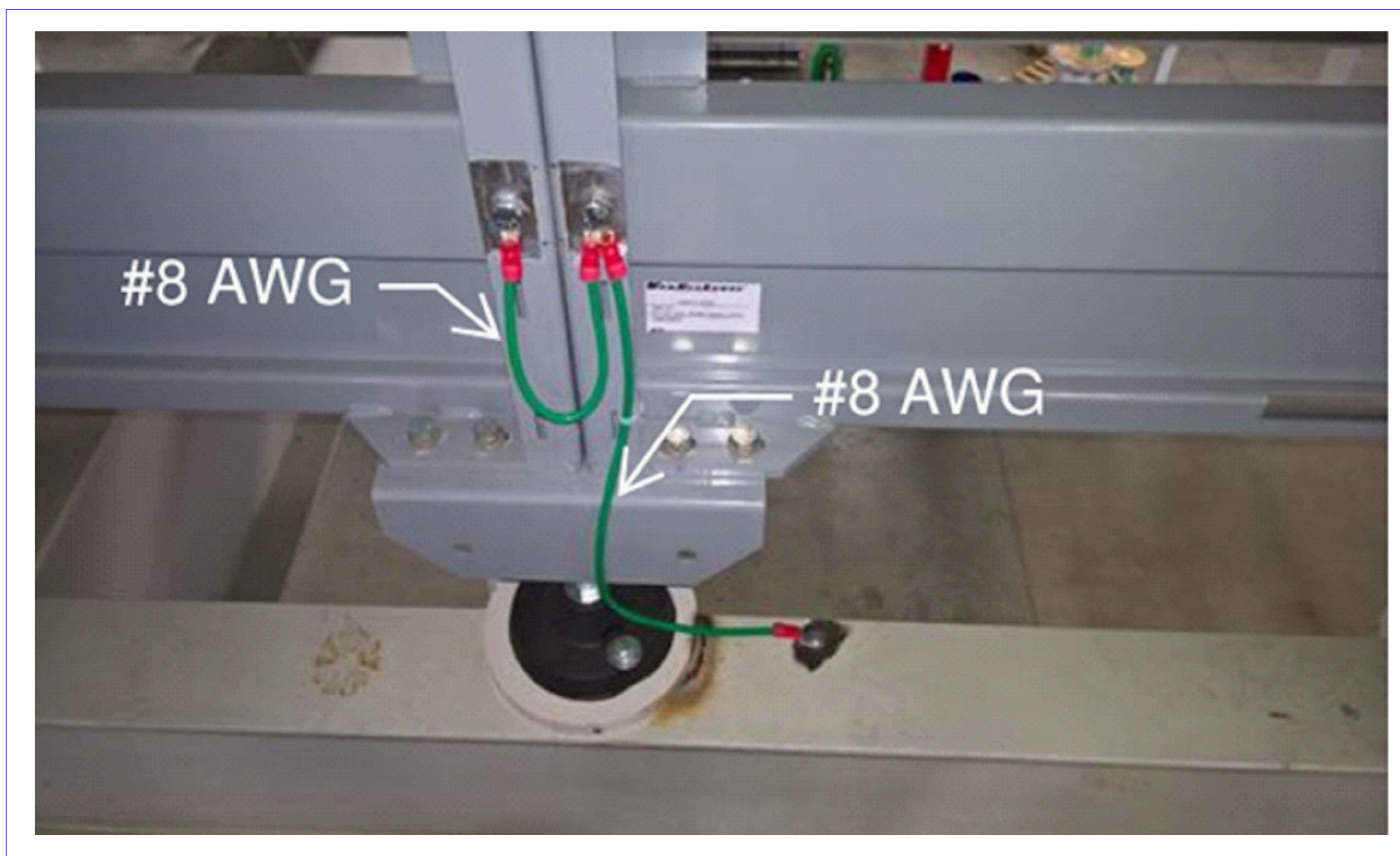
1. Termination points (See Note 2)



2. Grounding for SPO (See Notes 1,3 & 4)

Notes:

1. All grounding wire to be #8 AWG (10 mm²)
2. Powder coating or paint to be removed at termination points
3. Star washers to be used at each termination
4. Each sorter section to be grounded to the adjacent section/s using existing holes and short jumpers with compression ring terminals
5. At several points along the sorter, not to exceed four sections, an additional jumper will be installed from the sorter section to the building steel below

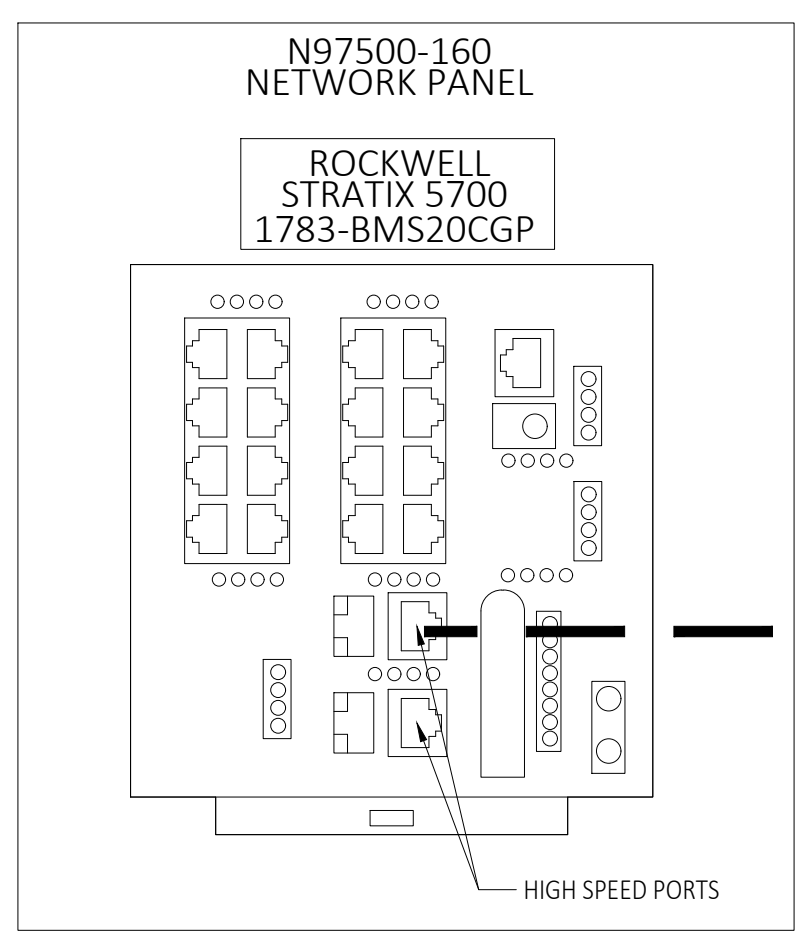
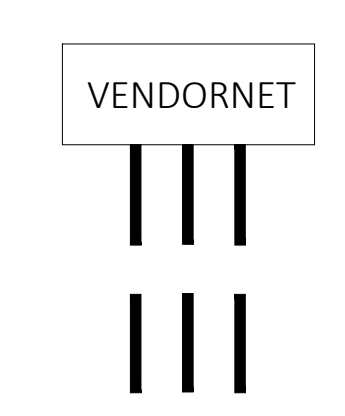


3. Grounding for SPO (See Notes 1,3, 4 & 5)

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION							
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						LOCATION :						
						CUSTOMER DRAWING #: DAB2-E- - 410						
						STATUS:						
						AS BUILT						
						DRAWN : USTWILM		TITLE : CP1090 - DOCK SORTER (SPO)				
						DATE : 07/06/2023		GROUNDING HC-SPO				
						SCALE : NTS		NUMBER :	29332-431-11090	SHT: 410	EN	REV.:
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT							C01

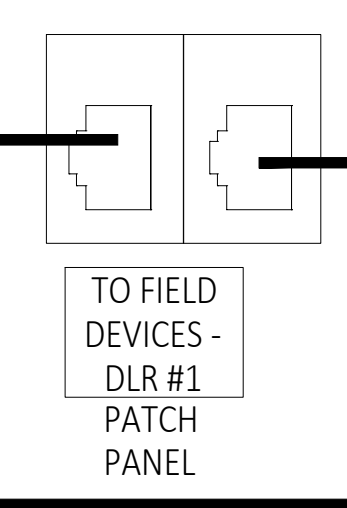
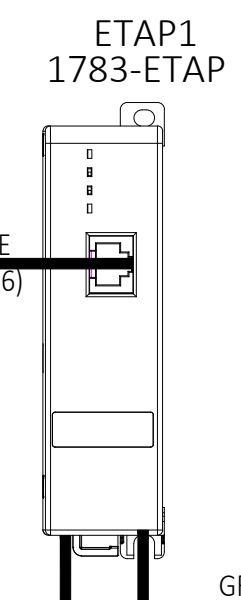
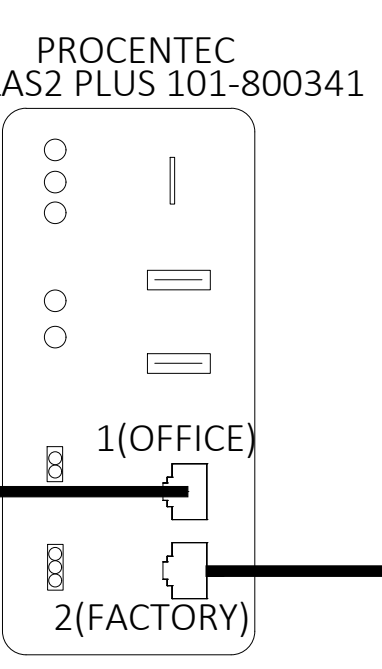
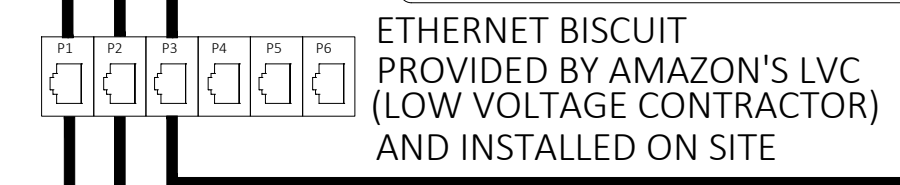
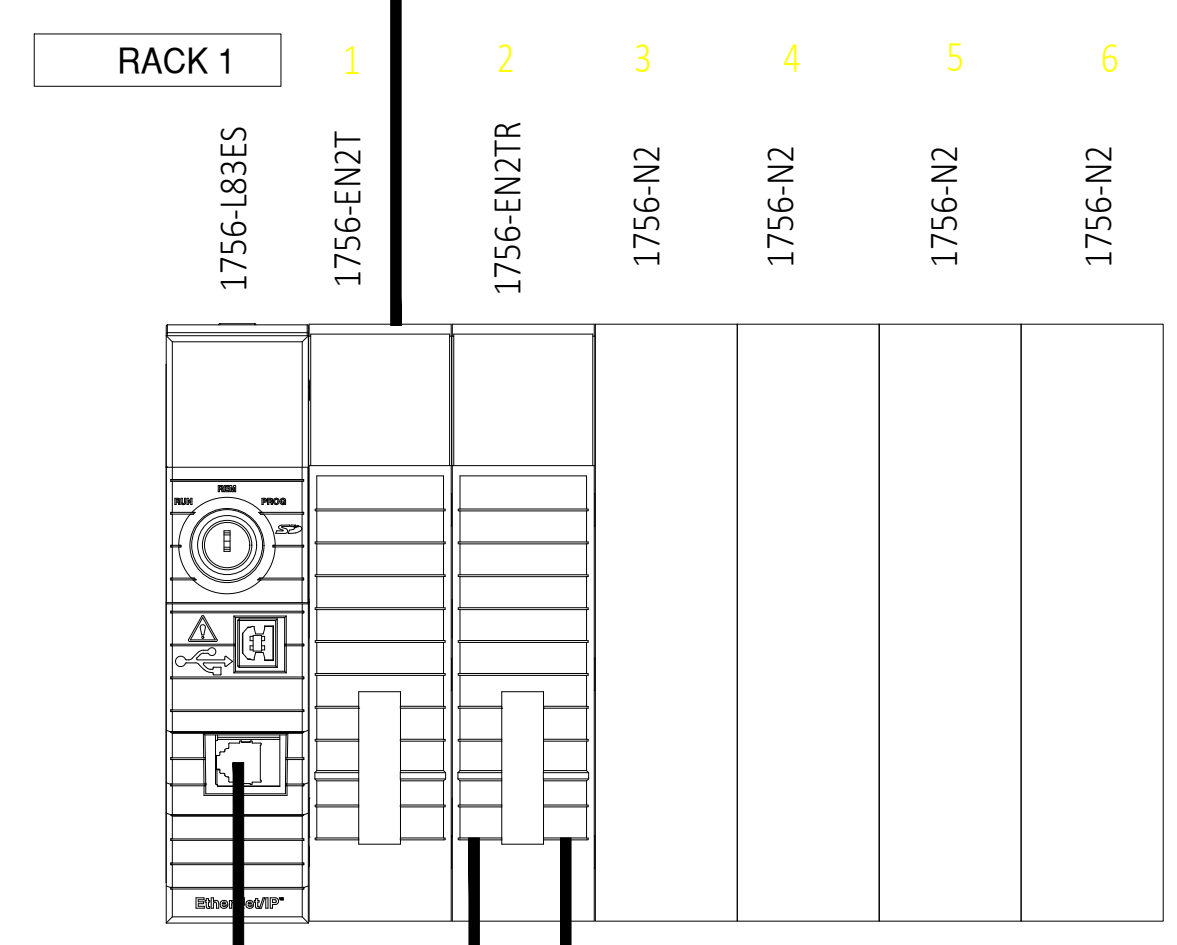
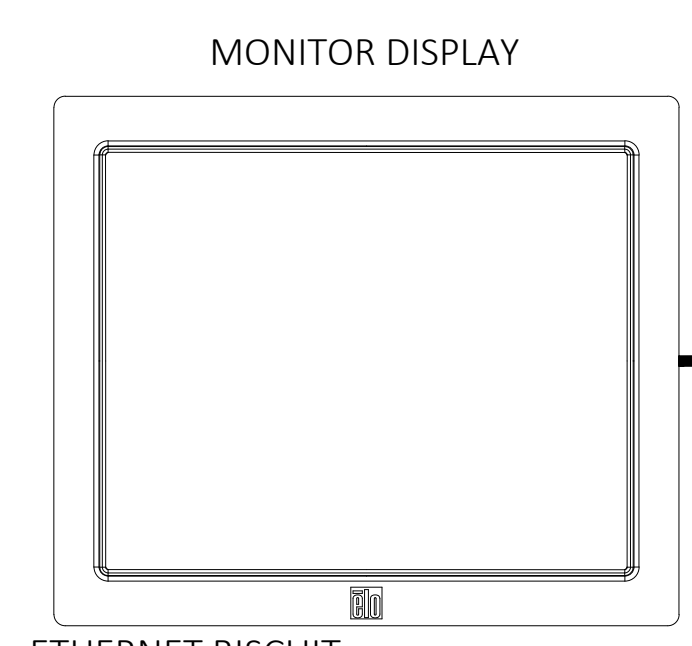
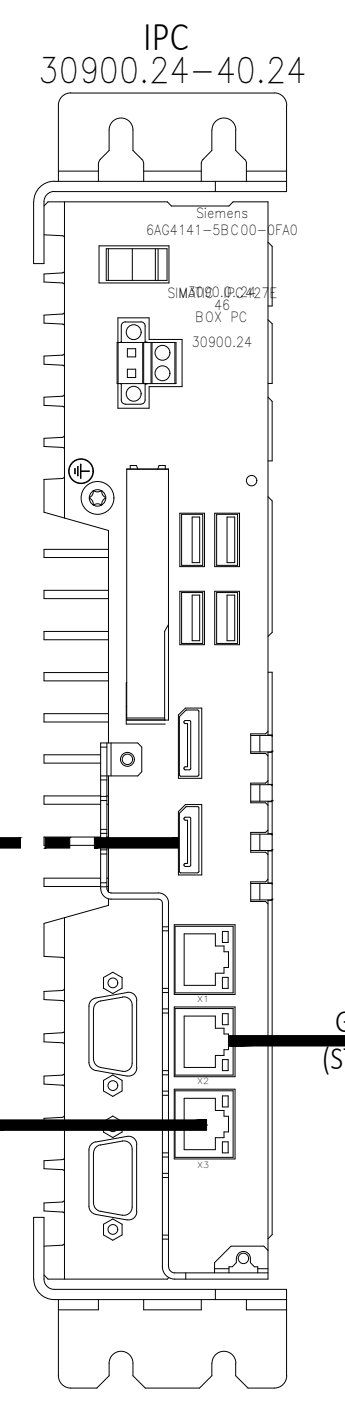
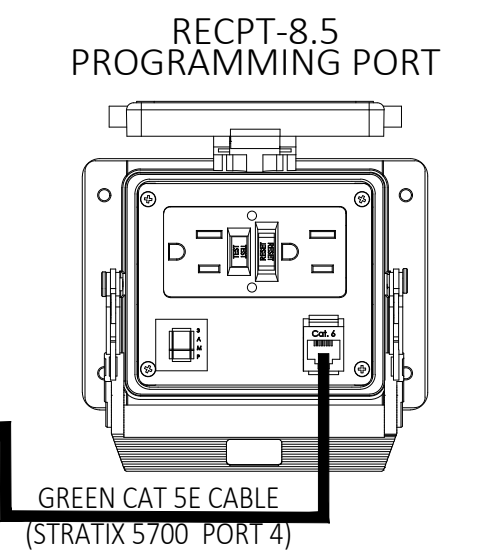
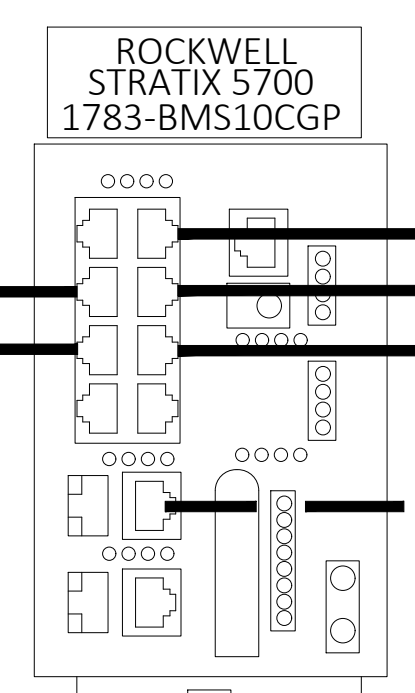
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N97500-194-001
SPO3.0 MAINTENANCE CONSOLE

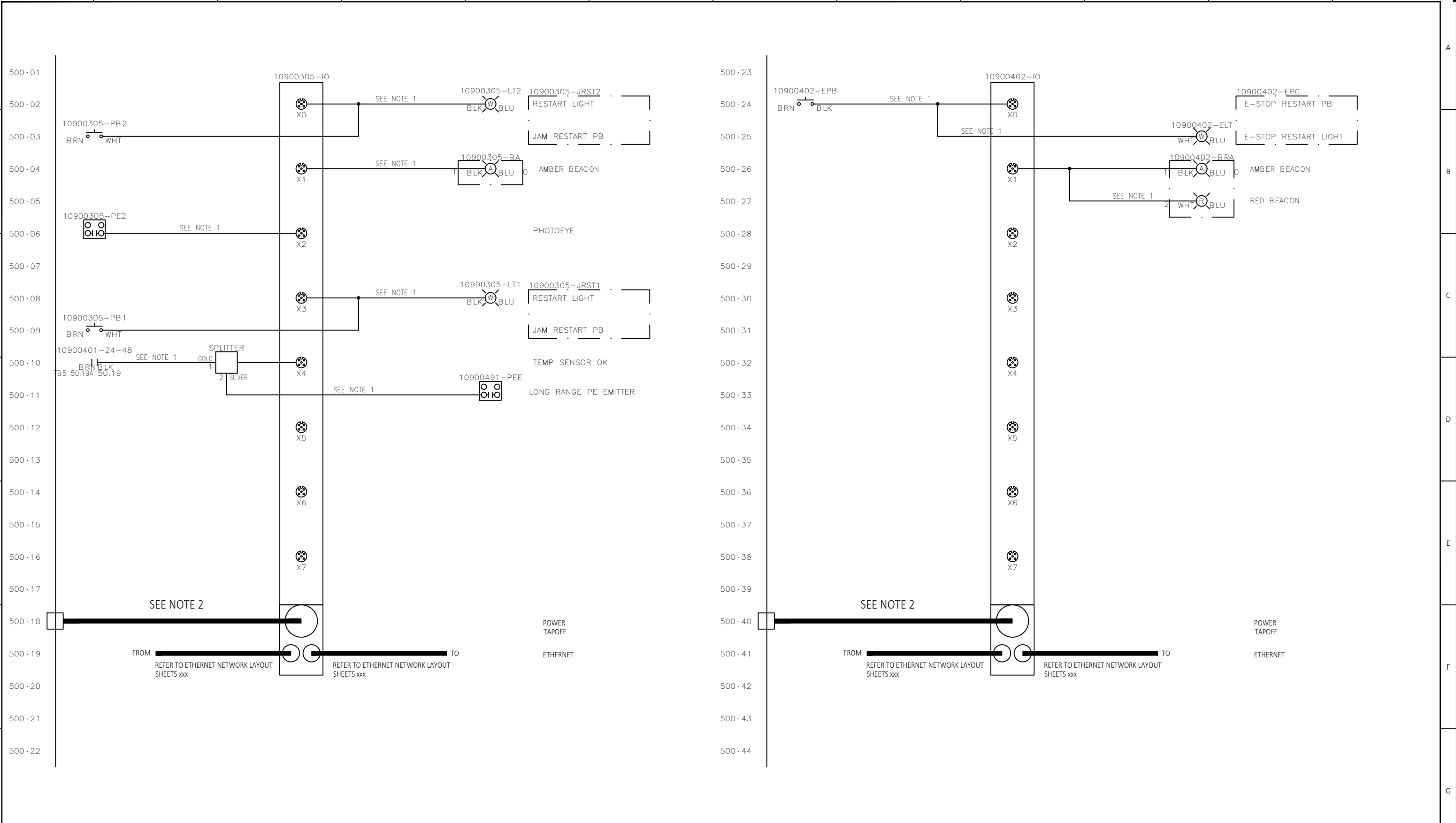
GREEN CAT 5E CABLE
(STRATIX 5700 HIGH SPEED PORT 1)



REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
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CUSTOMER :			
LOCATION :			
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STATUS:		AS BUILT	
DRAWN :		USTWILM	
DATE :		07/06/2023	
SCALE :		NTS	
TITLE :		CP1090 - DOCK SORTER (SPO) ETHERNET TYPICAL - 1 DLR	
NUMBER :	29332-431-11090	SHT: 411	EN
REV.:	C01		

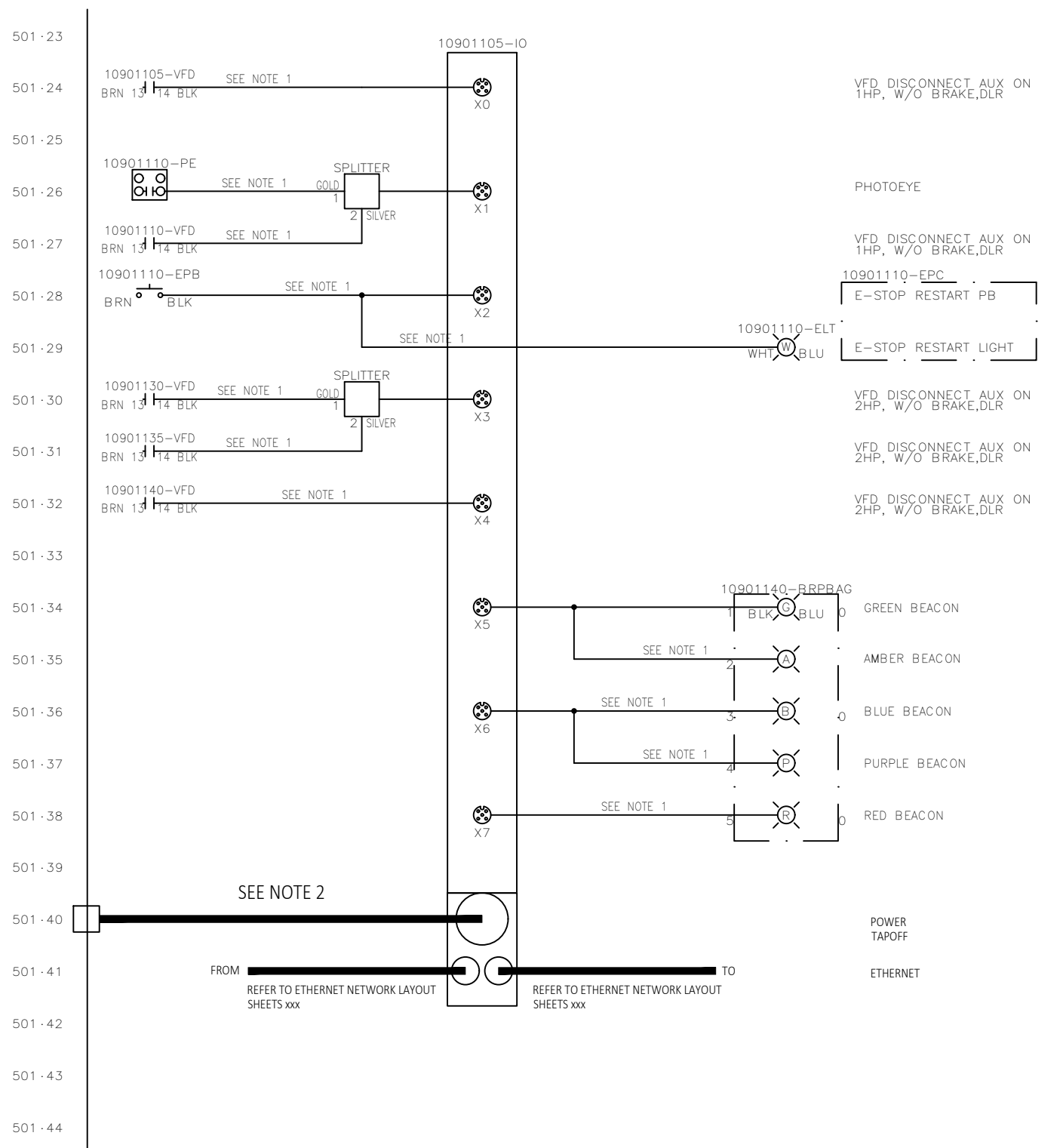
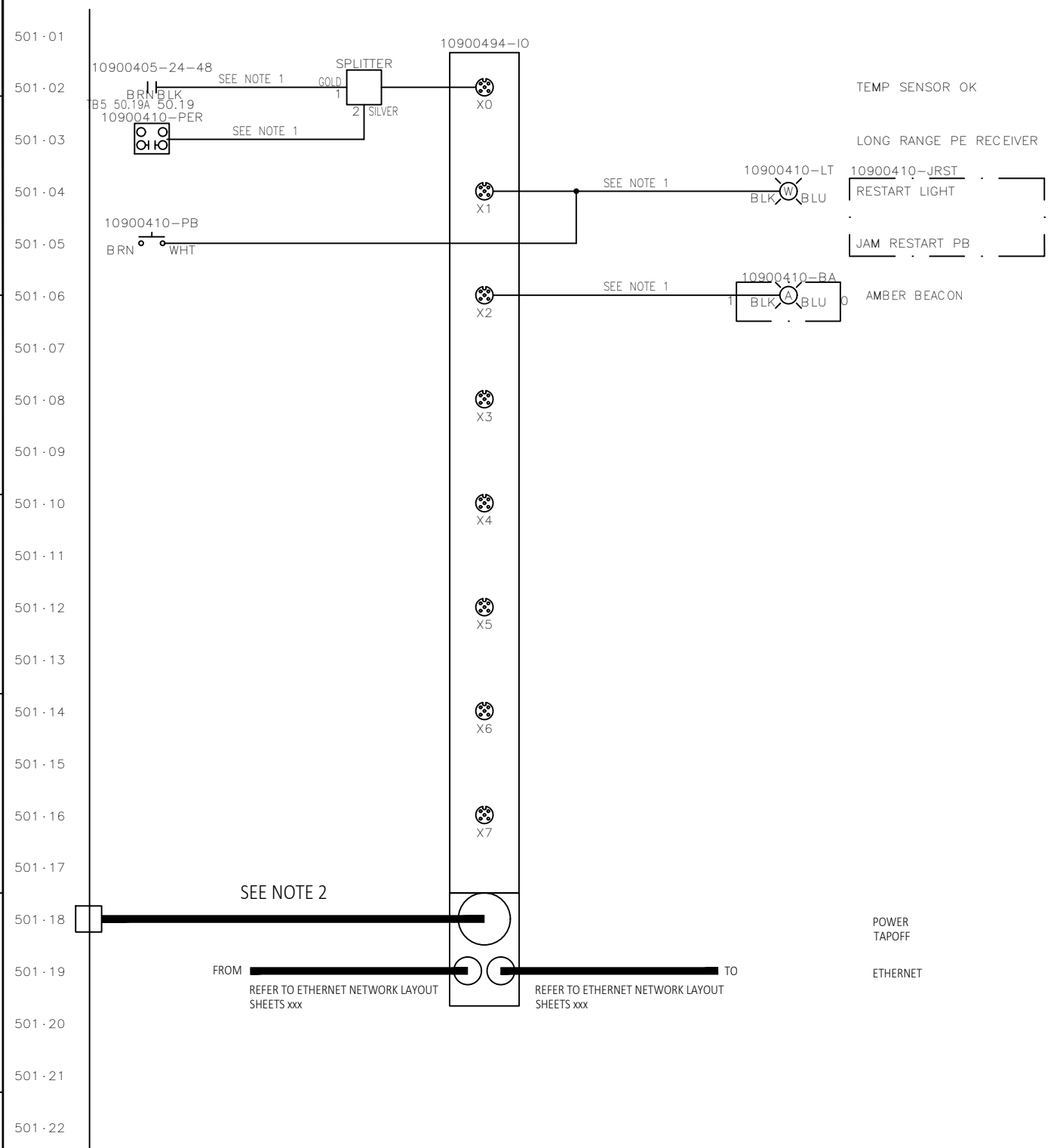
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 PLOTTED BY: USDCHEM ON: 27/09/2024 15:06
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- NOTES:**
1. LABEL ALL CABLES ON BOTH ENDS. CABLE TAG TO BE DEVICE SECTION - DEVICE ABBREVIATION - PORT NUMBER (ie "0101-PE-2.0")
 2. LABEL ALL CABLES ON BOTH ENDS. CABLE TAG FOR POWER TAP TO BE THE SAME AS THE POWER SUPPLY TAG CHANNEL NUMBER (ie "10015678-1")
 3. ADD WIRE JUMPER BETWEEN TB2 #50.16A AND #50.18A FOR NON-CLASS 2 POWER SUPPLY (VI P/N N97500-174)

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHEM	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- 500
STATUS:		AS BUILT
DRAWN:		USTWILM
DATE :		07/06/2023
SCALE :		NTS
NUMBER :	29332-431-11090	SHT: 500
EN	REV.:	C01

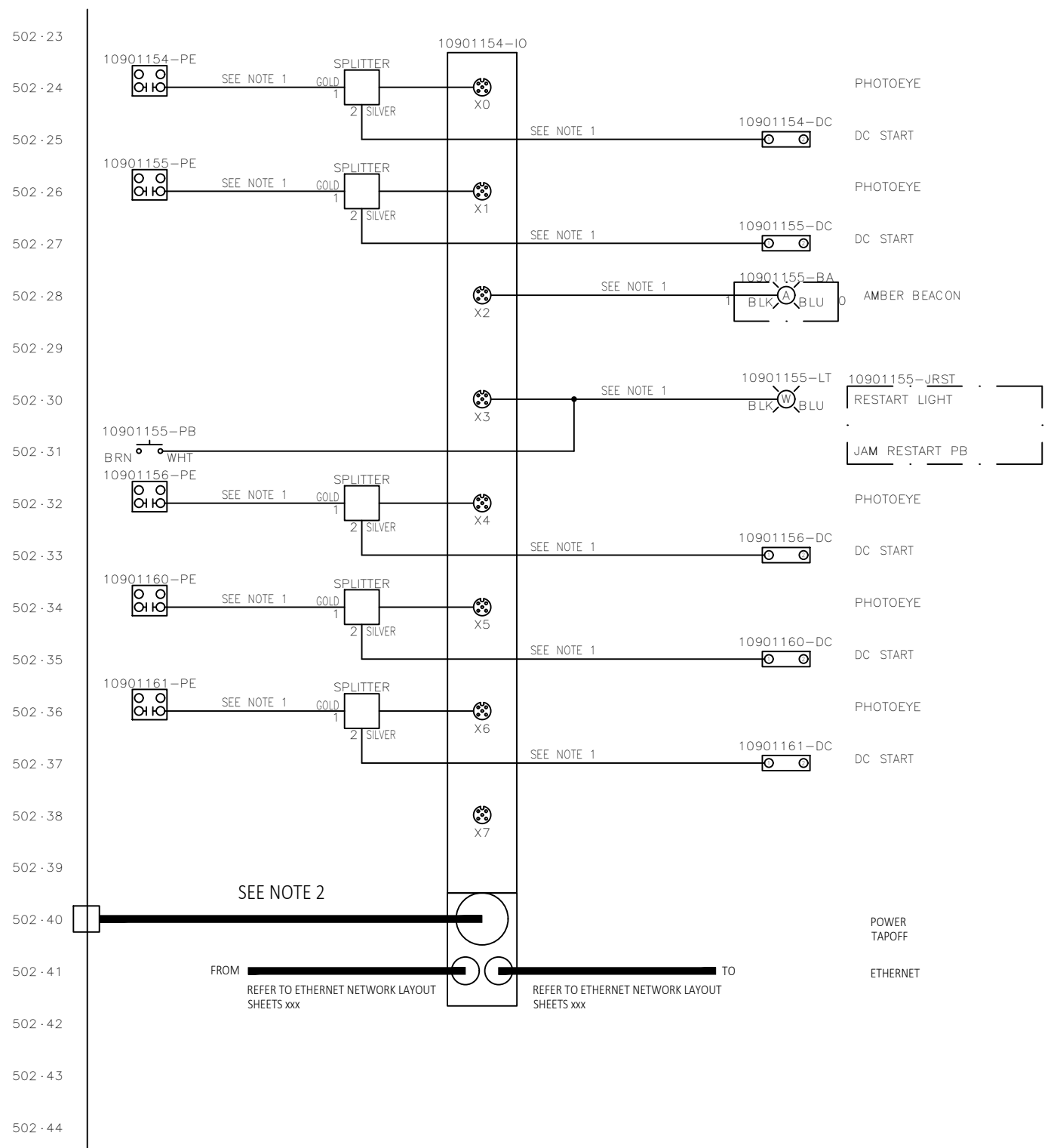
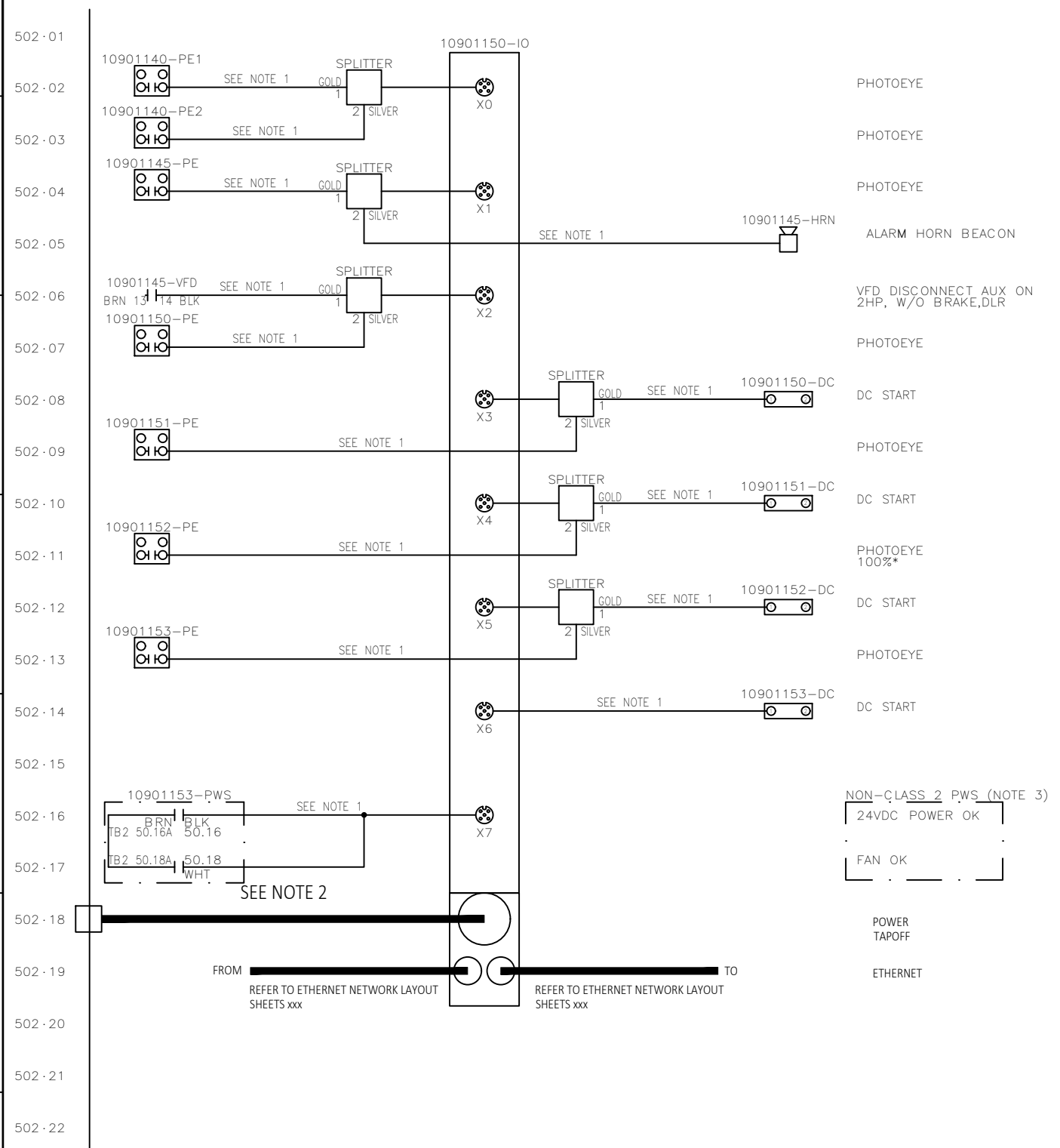


- NOTES:
- LABEL ALL CABLES ON BOTH ENDS. CABLE TAG TO BE DEVICE SECTION - DEVICE ABBREVIATION - PORT NUMBER (ie "0101-PE-2.0")
 - LABEL ALL CABLES ON BOTH ENDS. CABLE TAG FOR POWER TAP TO BE THE SAME AS THE POWER SUPPLY TAG CHANNEL NUMBER (ie "10015678-1")
 - ADD WIRE JUMPER BETWEEN TB2 #50.16A AND #50.18A FOR NON-CLASS 2 POWER SUPPLY (VI P/N N97500-174)

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
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CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- 501
STATUS:		AS BUILT
DRAWN :	USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)
DATE :	07/06/2023	I/O BLOCK SCHEMATIC
SCALE :	NTS	
NUMBER :	29332-431-11090	SHT: 501
EN		REV.: C01

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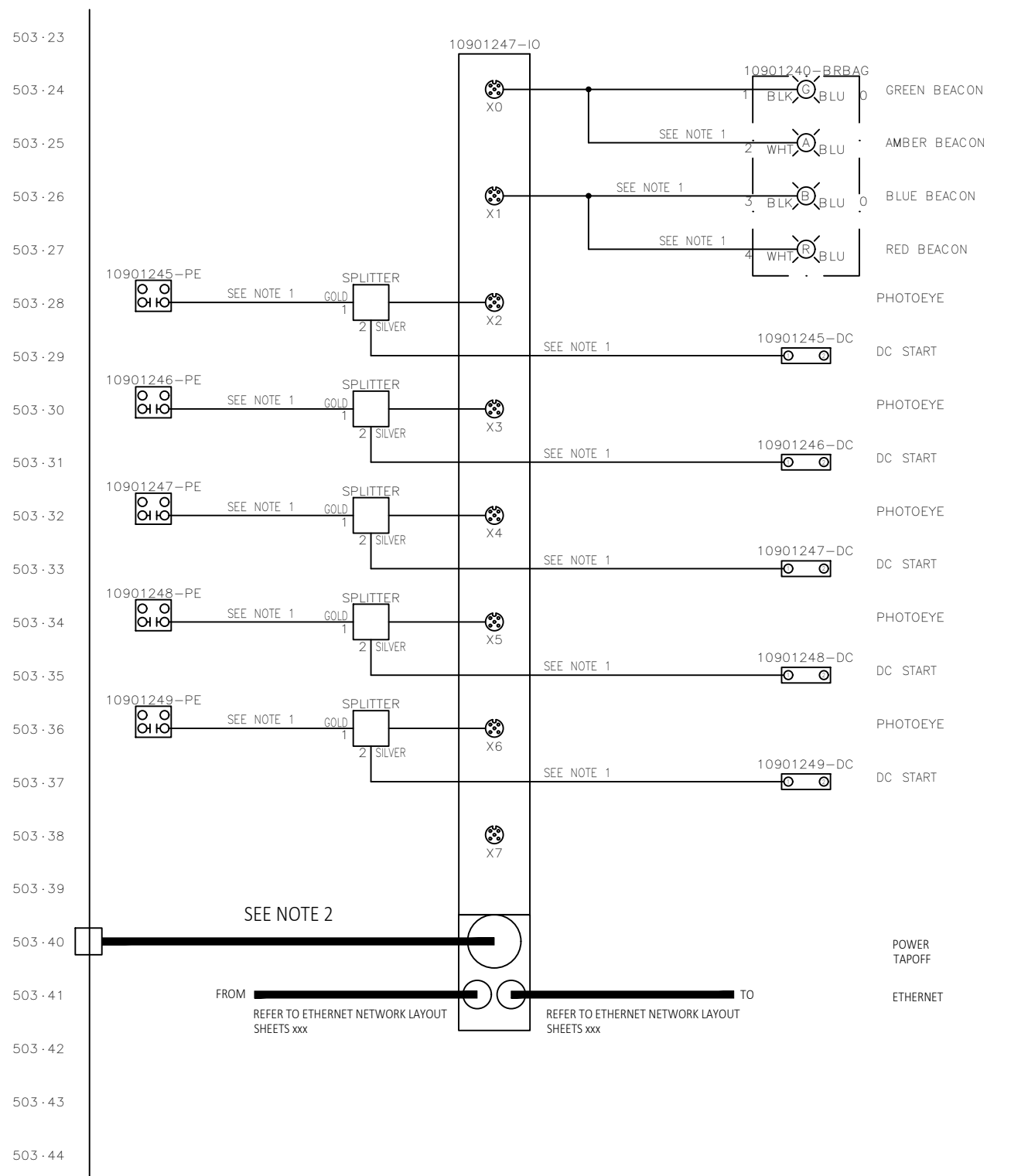
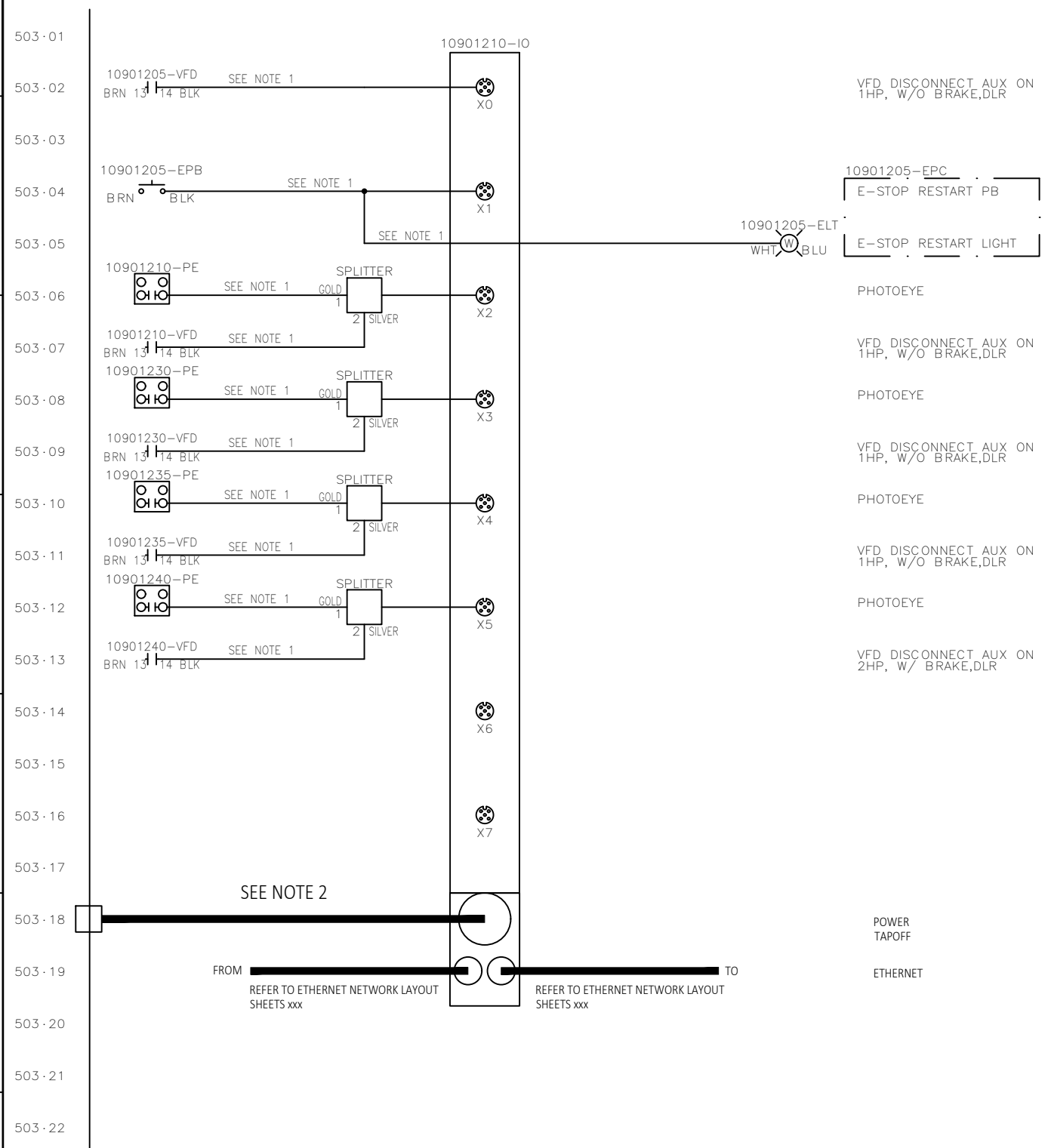


- NOTES:**
- LABEL ALL CABLES ON BOTH ENDS. CABLE TAG TO BE DEVICE SECTION - DEVICE ABBREVIATION - PORT NUMBER (ie "0101-PE-2.0")
 - LABEL ALL CABLES ON BOTH ENDS. CABLE TAG FOR POWER TAP TO BE THE SAME AS THE POWER SUPPLY TAG CHANNEL NUMBER (ie "10015678-1")
 - ADD WIRE JUMPER BETWEEN TB2 #50.16A AND #50.18A FOR NON-CLASS 2 POWER SUPPLY (VI P/N N97500-174)

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- 502
STATUS:		AS BUILT
DRAWN :	USTWILM	TITLE: CP1090 - DOCK SORTER (SPO)
DATE :	07/06/2023	I/O BLOCK SCHEMATIC
SCALE :	NTS	
NUMBER :	29332-431-11090	SHT: 502
EN		REV.: C01

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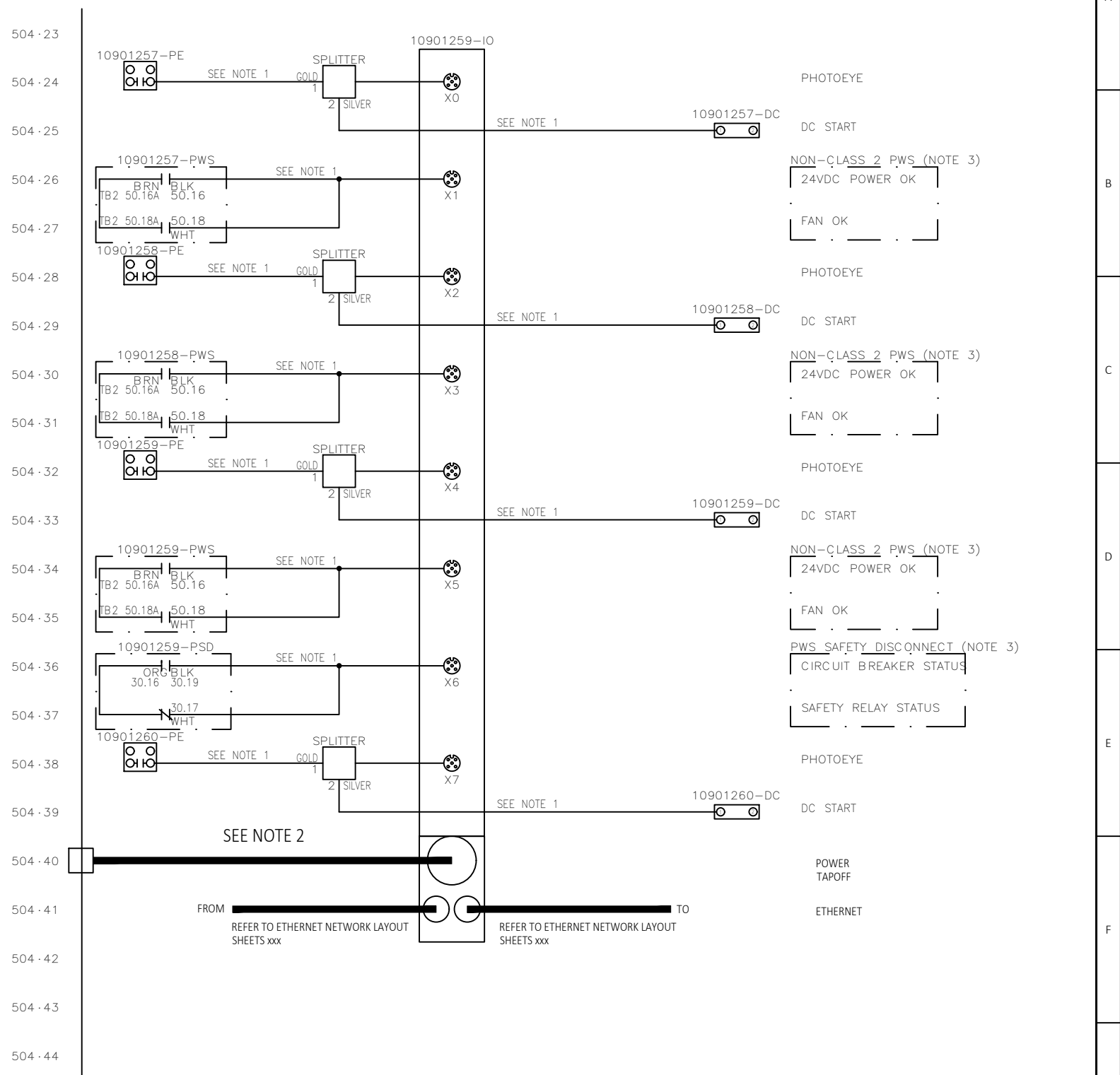
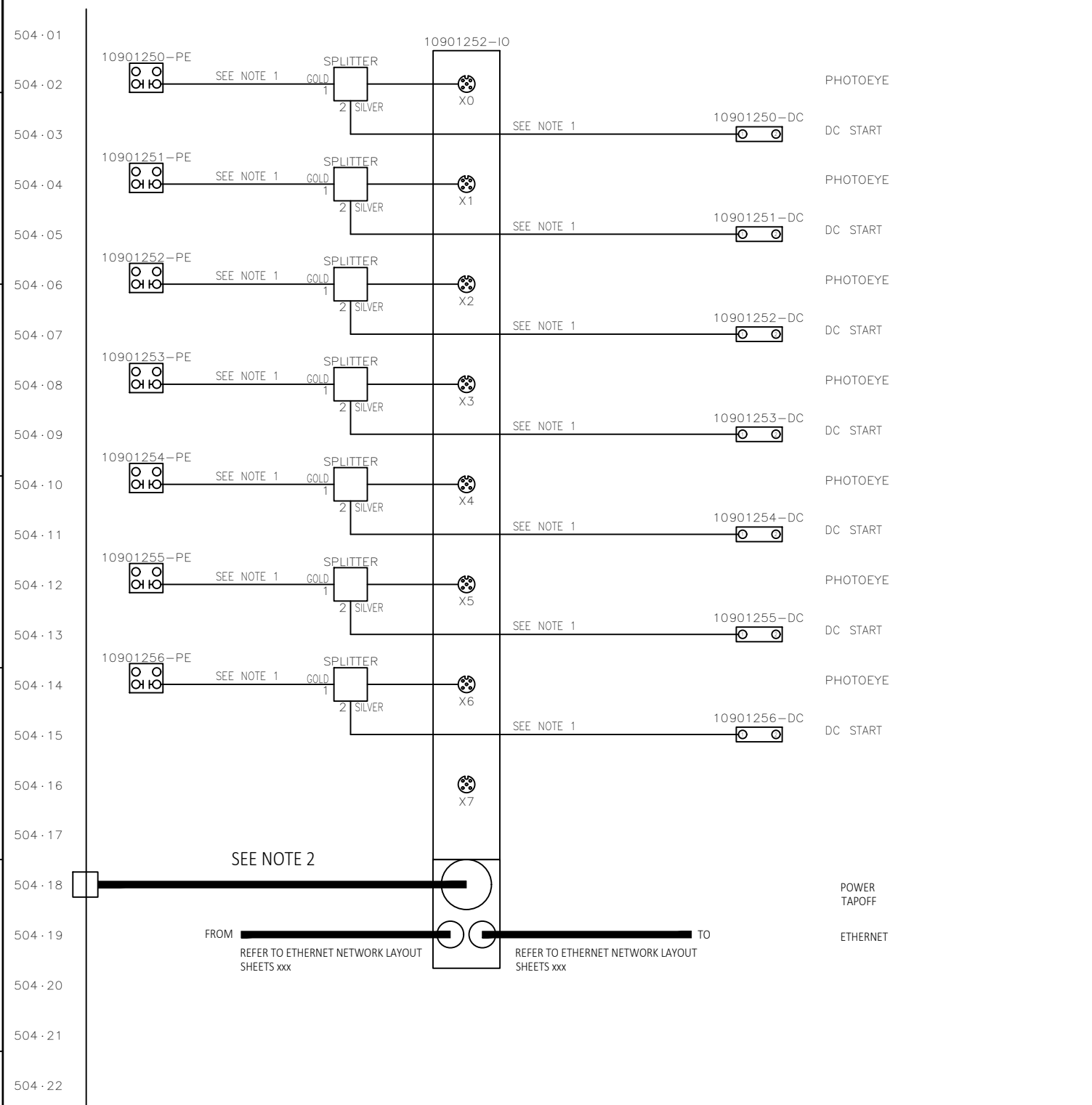
- NOTES:
- LABEL ALL CABLES ON BOTH ENDS. CABLE TAG TO BE DEVICE SECTION - DEVICE ABBREVIATION - PORT NUMBER (ie "0101-PE-2.0")
 - LABEL ALL CABLES ON BOTH ENDS. CABLE TAG FOR POWER TAP TO BE THE SAME AS THE POWER SUPPLY TAG CHANNEL NUMBER (ie "10015678-1")
 - ADD WIRE JUMPER BETWEEN TB2 #50.16A AND #50.18A FOR NON-CLASS 2 POWER SUPPLY (VI P/N N97500-174)

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- 503
STATUS:		AS BUILT
DRAWN :	USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)
DATE :	07/06/2023	I/O BLOCK SCHEMATIC
SCALE :	NTS	
NUMBER :	29332-431-11090	SHT: 503
		EN
REV.:	C01	

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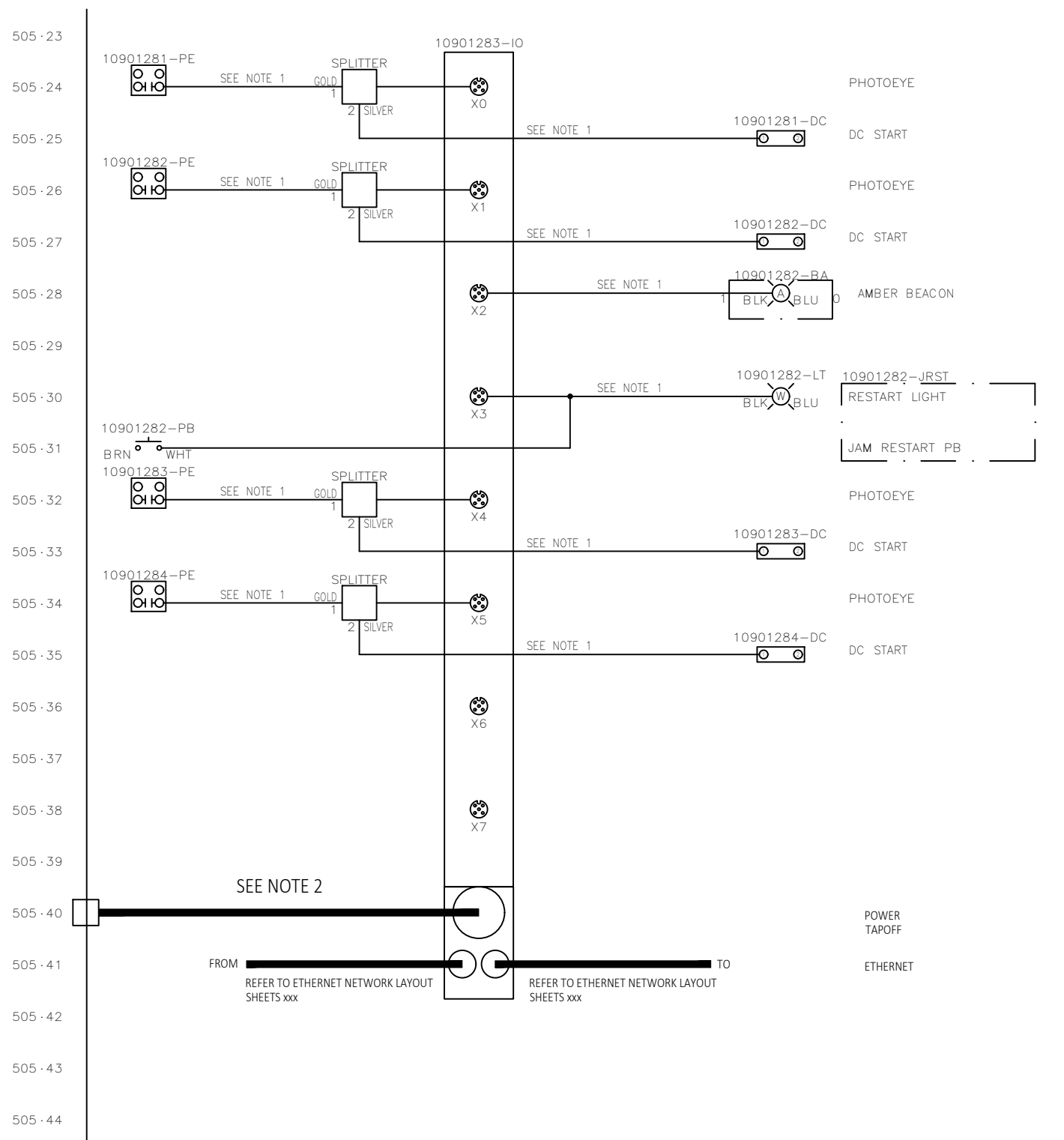
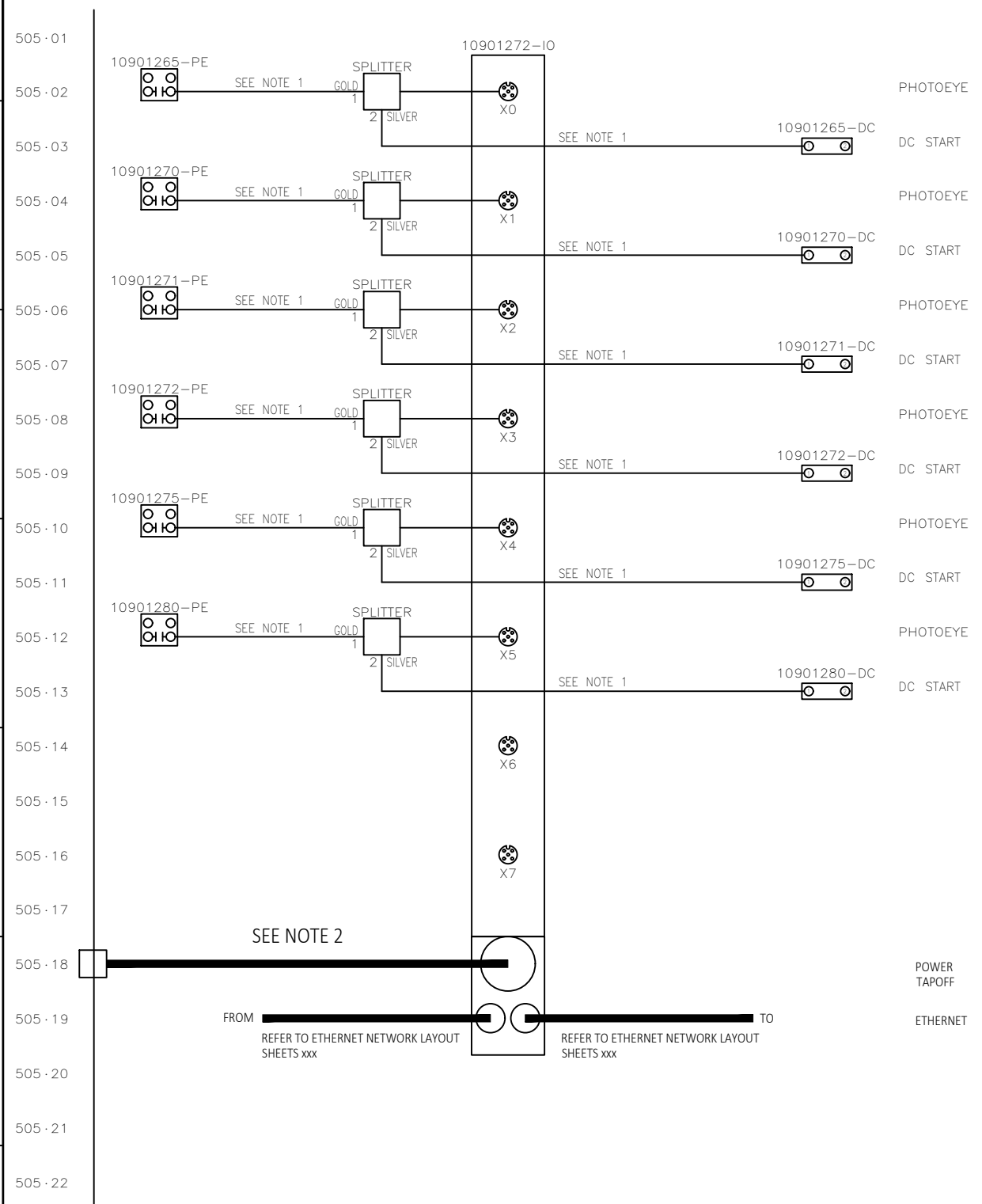
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- NOTES:
1. LABEL ALL CABLES ON BOTH ENDS. CABLE TAG TO BE DEVICE SECTION - DEVICE ABBREVIATION - PORT NUMBER (ie "0101-PE-2.0")
 2. LABEL ALL CABLES ON BOTH ENDS. CABLE TAG FOR POWER TAP TO BE THE SAME AS THE POWER SUPPLY TAG CHANNEL NUMBER (ie "10015678-1")
 3. ADD WIRE JUMPER BETWEEN TB2 #50.16A AND #50.18A FOR NON-CLASS 2 POWER SUPPLY (VI P/N N97500-174)

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHEER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- 504
STATUS:		AS BUILT
DRAWN :	USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)
DATE :	07/06/2023	I/O BLOCK SCHEMATIC
SCALE :	NTS	
NUMBER :	29332-431-11090	SHT: 504
EN		REV: C01

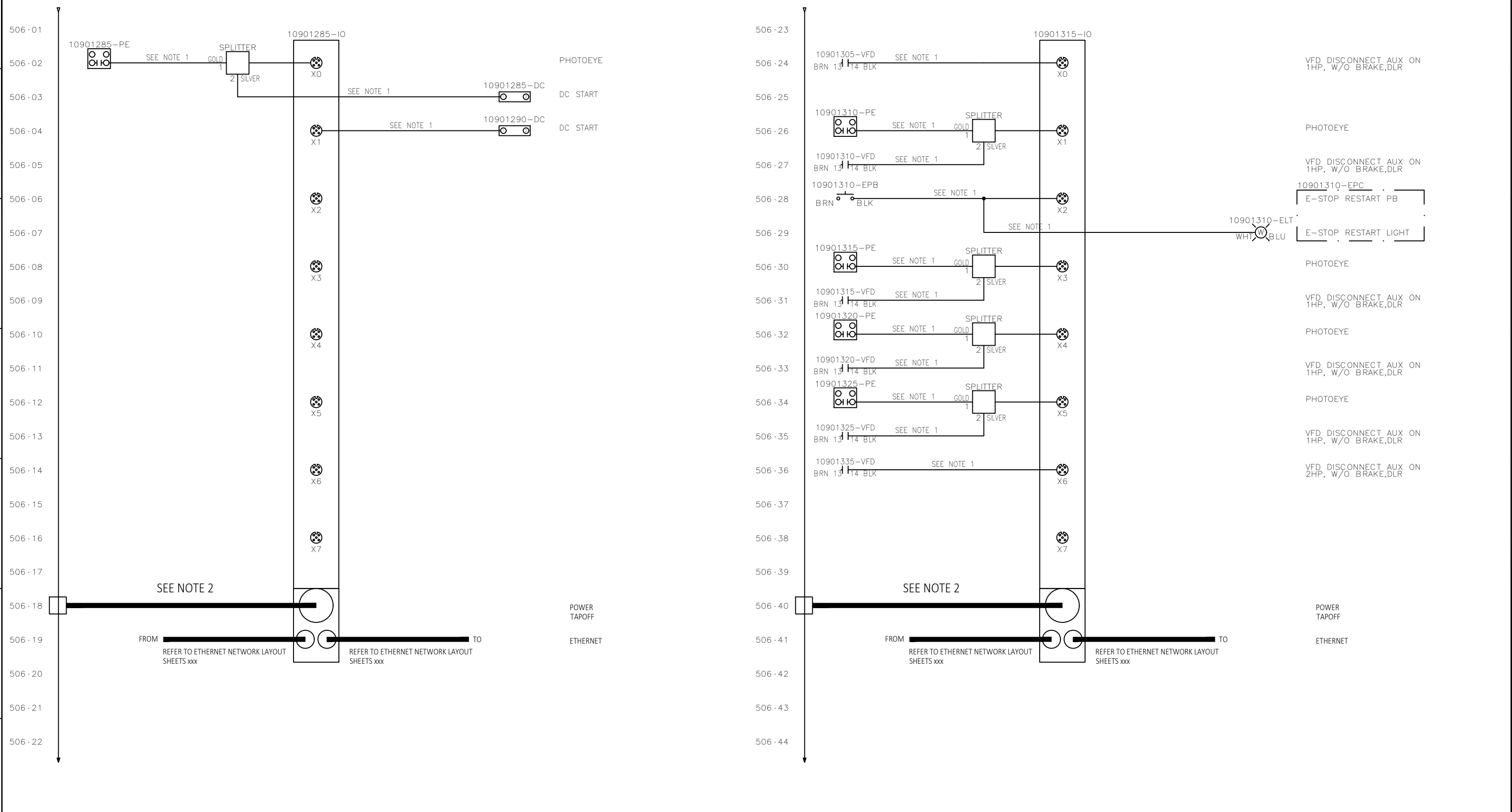


- NOTES:
1. LABEL ALL CABLES ON BOTH ENDS. CABLE TAG TO BE DEVICE SECTION - DEVICE ABBREVIATION - PORT NUMBER (ie "0101-PE-2.0")
 2. LABEL ALL CABLES ON BOTH ENDS. CABLE TAG FOR POWER TAP TO BE THE SAME AS THE POWER SUPPLY TAG CHANNEL NUMBER (ie "10015678-1")
 3. ADD WIRE JUMPER BETWEEN TB2 #50.16A AND #50.18A FOR NON-CLASS 2 POWER SUPPLY (VI P/N N97500-174)

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- - 505
STATUS:		AS BUILT
DRAWN :		USTWILM
DATE :		07/06/2023
SCALE :		NTS
NUMBER :	29332-431-11090	SHT: 505
EN	REV.:	C01

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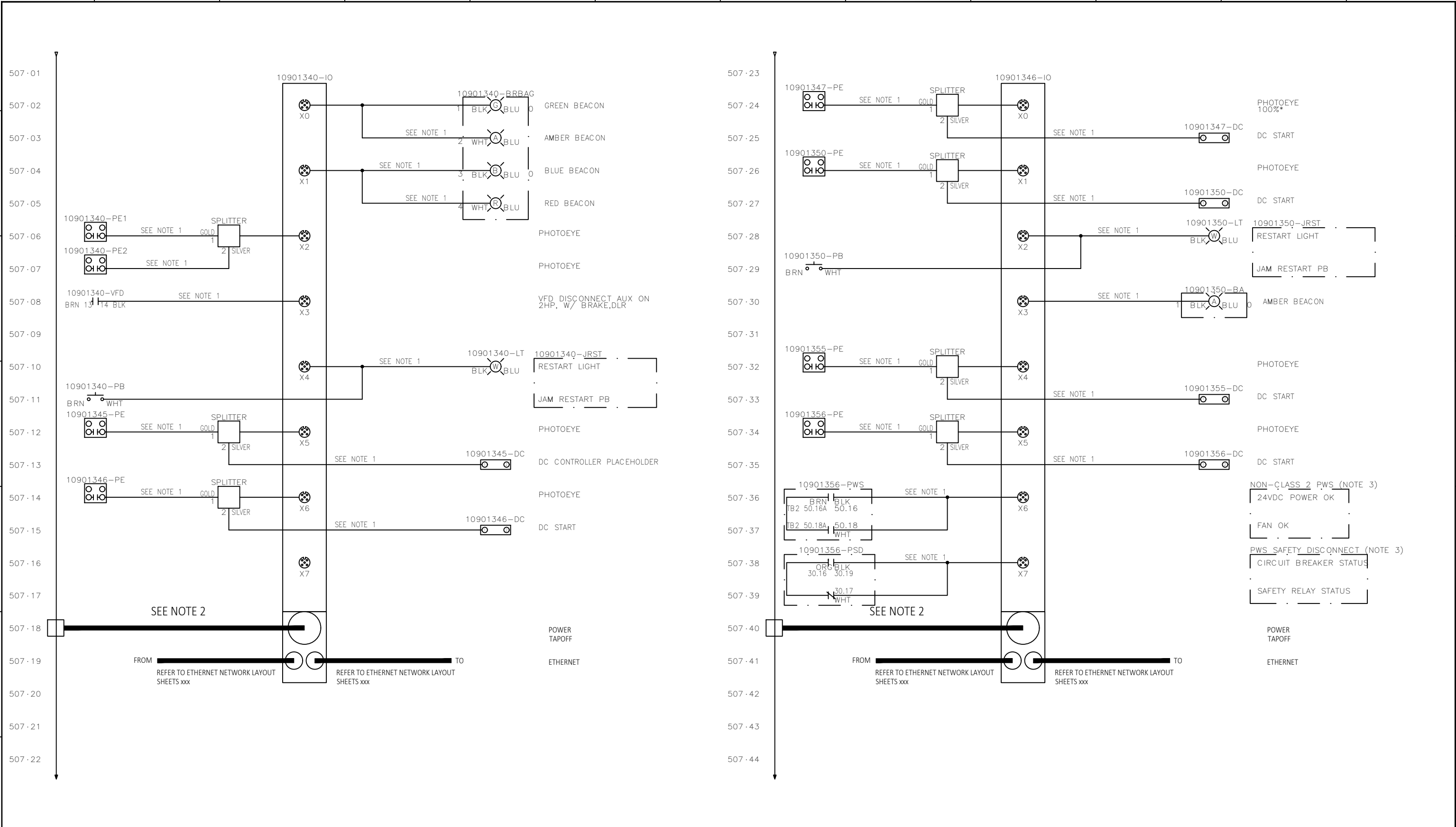


- NOTES:
1. LABEL ALL CABLES ON BOTH ENDS. CABLE TAG TO BE DEVICE SECTION - DEVICE ABBREVIATION - PORT NUMBER (ie "0101-PE-2.0")
 2. LABEL ALL CABLES ON BOTH ENDS. CABLE TAG FOR POWER TAP TO BE THE SAME AS THE POWER SUPPLY TAG CHANNEL NUMBER (ie "10015678-1")
 3. ADD WIRE JUMPER BETWEEN TB2 #50.16A AND #50.18A FOR NON-CLASS 2 POWER SUPPLY (VI P/N N97500-174)

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- - 506
STATUS:		AS BUILT
DRAWN :	USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)
DATE :	07/06/2023	I/O BLOCK SCHEMATIC
SCALE :	NTS	
NUMBER :	29332-431-11090	SHT: 506
EN		REV.: C01

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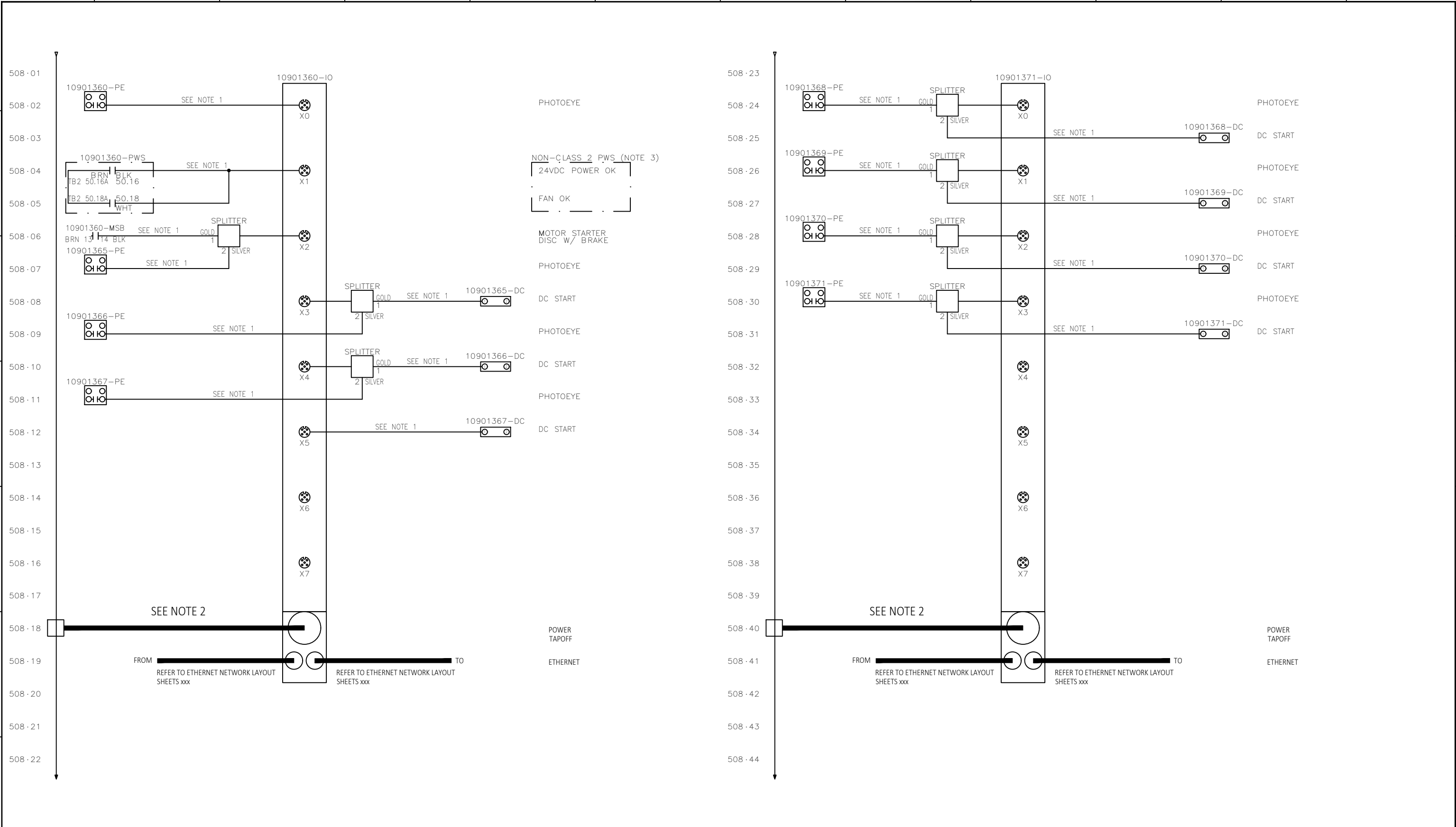
- NOTES:
1. LABEL ALL CABLES ON BOTH ENDS. CABLE TAG TO BE DEVICE SECTION - DEVICE ABBREVIATION - PORT NUMBER (ie "0101-PE-2.0")
 2. LABEL ALL CABLES ON BOTH ENDS. CABLE TAG FOR POWER TAP TO BE THE SAME AS THE POWER SUPPLY TAG CHANNEL NUMBER (ie "10015678-1")
 3. ADD WIRE JUMPER BETWEEN TB2 #50.16A AND #50.18A FOR NON-CLASS 2 POWER SUPPLY (VI P/N N97500-174)

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- - 507
STATUS:		AS BUILT
DRAWN :	USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)
DATE :	07/06/2023	I/O BLOCK SCHEMATIC
SCALE :	NTS	
NUMBER :	29332-431-11090	SHT: 507
EN		REV.: C01

FILENAME: 29332-431-11090-508.DWG
 PLOTTED BY: USDCHER ON: 27/09/2024 15:08

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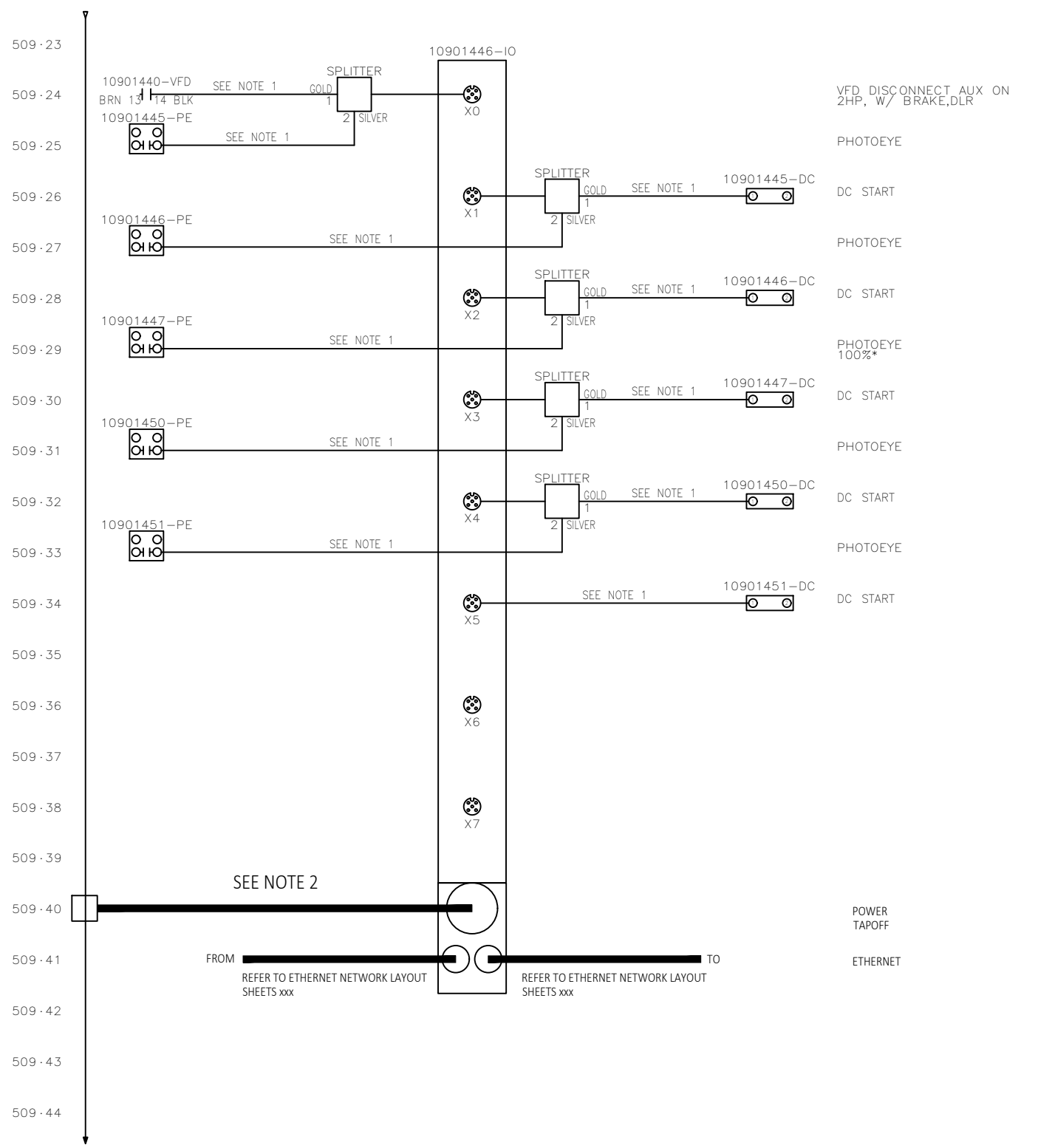
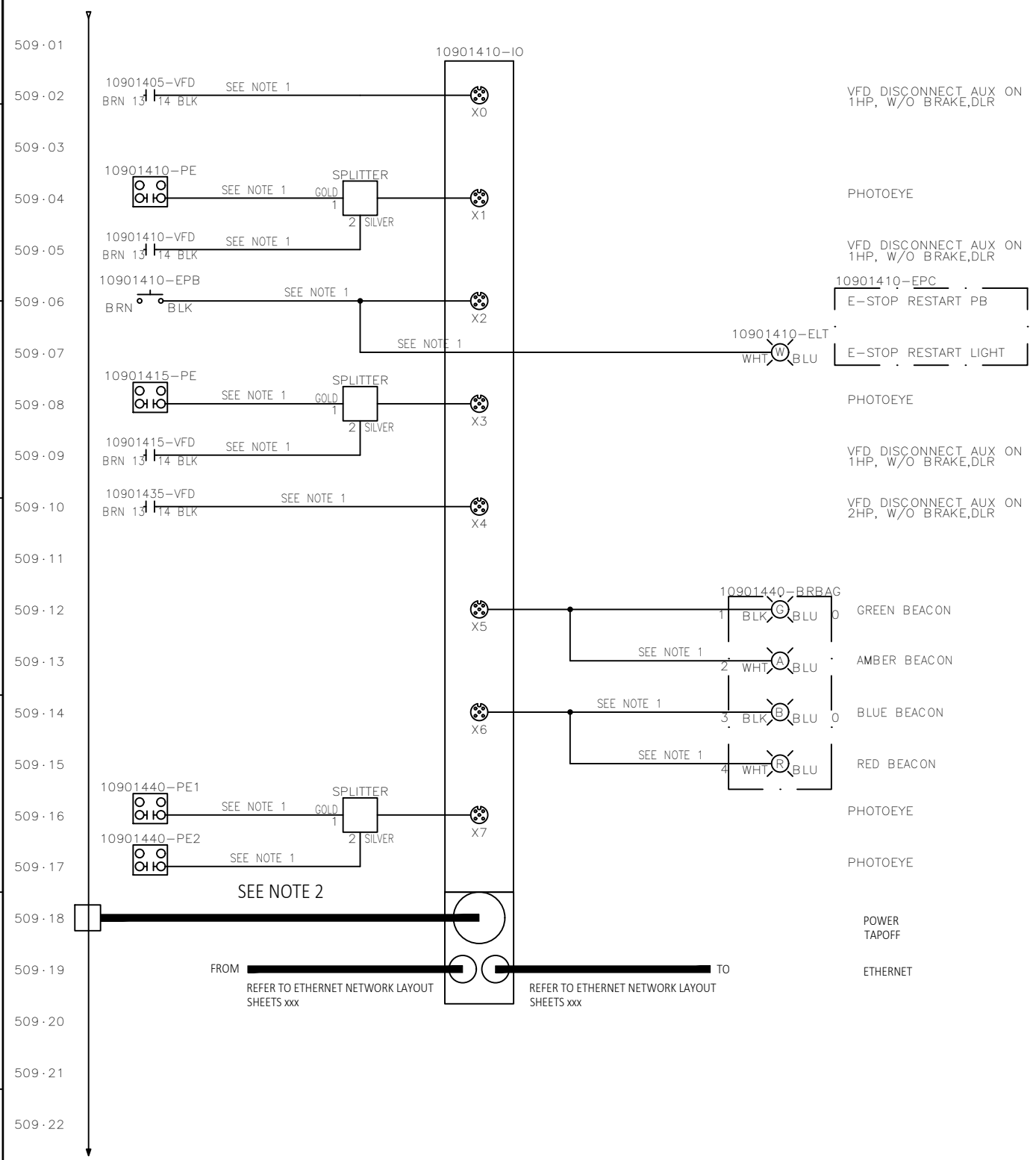


- NOTES:
- LABEL ALL CABLES ON BOTH ENDS. CABLE TAG TO BE DEVICE SECTION - DEVICE ABBREVIATION - PORT NUMBER (ie "0101-PE-2.0")
 - LABEL ALL CABLES ON BOTH ENDS. CABLE TAG FOR POWER TAP TO BE THE SAME AS THE POWER SUPPLY TAG CHANNEL NUMBER (ie "10015678-1")
 - ADD WIRE JUMPER BETWEEN TB2 #50.16A AND #50.18A FOR NON-CLASS 2 POWER SUPPLY (VI P/N N97500-174)

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- 508
STATUS:		AS BUILT
DRAWN :		USTWILM
DATE :		07/06/2023
SCALE :		NTS
NUMBER :	29332-431-11090	SHT: 508
EN	REV.:	C01

FILENAME: 29332-431-11090-509.DWG
 PLOTTED BY: USDCHEER ON: 27/09/2024 15:09
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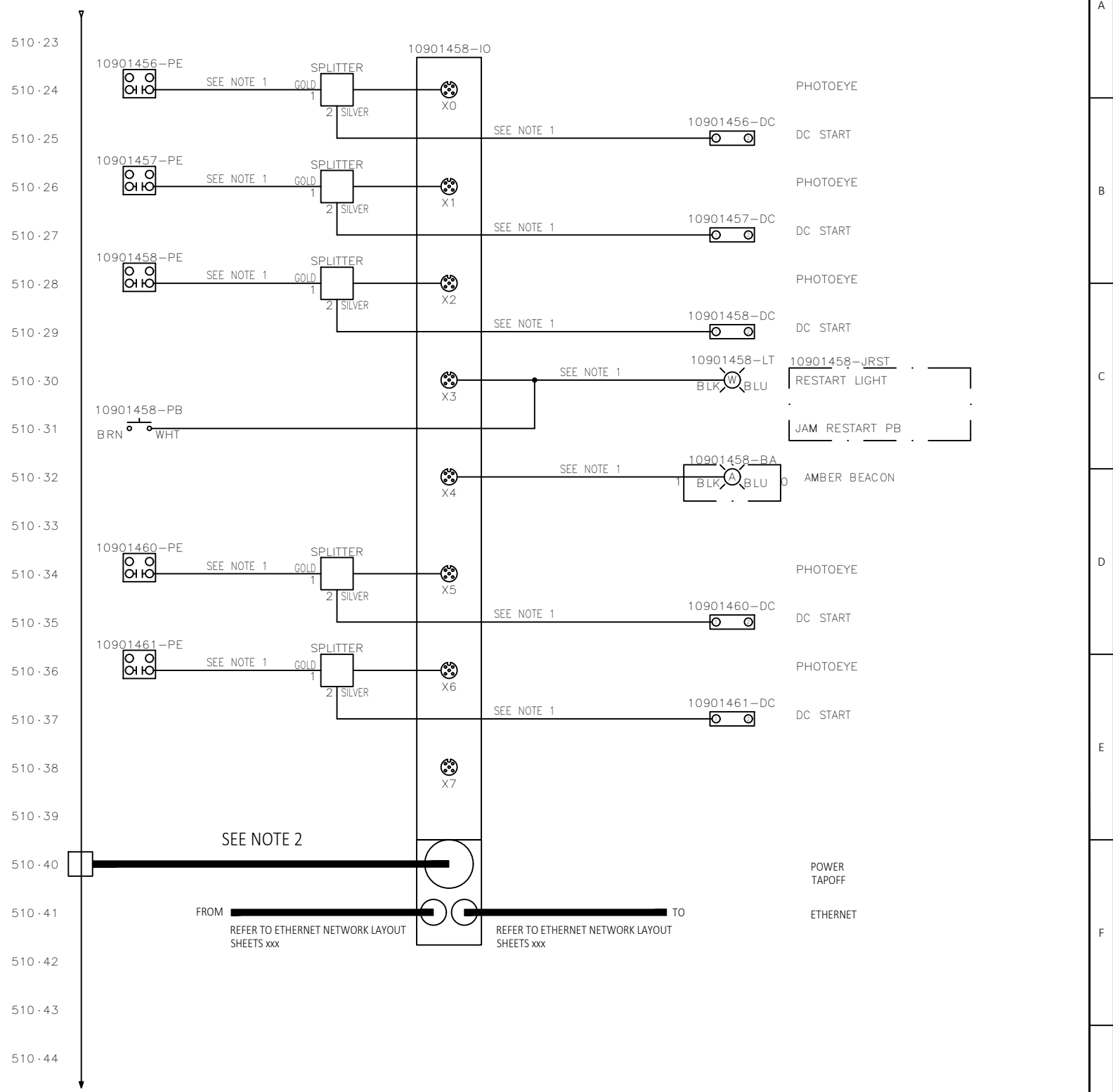
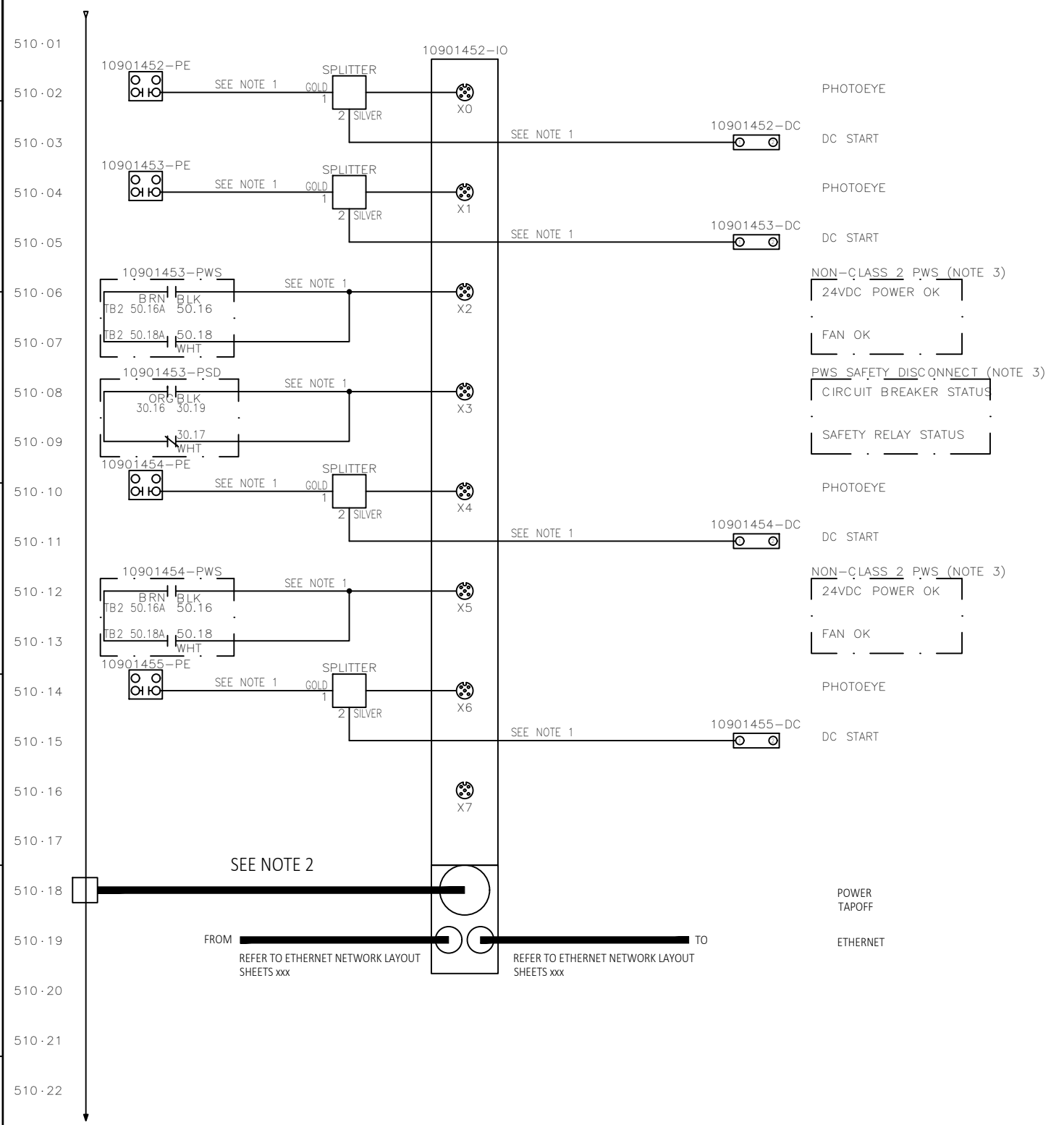
- NOTES:**
- LABEL ALL CABLES ON BOTH ENDS. CABLE TAG TO BE DEVICE SECTION - DEVICE ABBREVIATION - PORT NUMBER (ie "0101-PE-2.0")
 - LABEL ALL CABLES ON BOTH ENDS. CABLE TAG FOR POWER TAP TO BE THE SAME AS THE POWER SUPPLY TAG CHANNEL NUMBER (ie "10015678-1")
 - ADD WIRE JUMPER BETWEEN TB2 #50.16A AND #50.18A FOR NON-CLASS 2 POWER SUPPLY (VI P/N N97500-174)

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHEER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- - 509
STATUS:		AS BUILT
DRAWN :	USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)
DATE :	07/06/2023	I/O BLOCK SCHEMATIC
SCALE :	NTS	
NUMBER :	29332-431-11090	SHT: 509
EN		REV.: C01

FILENAME: 29332-431-11090-510.DWG
 PLOTTED BY: USDCHER ON: 27/09/2024 15:09

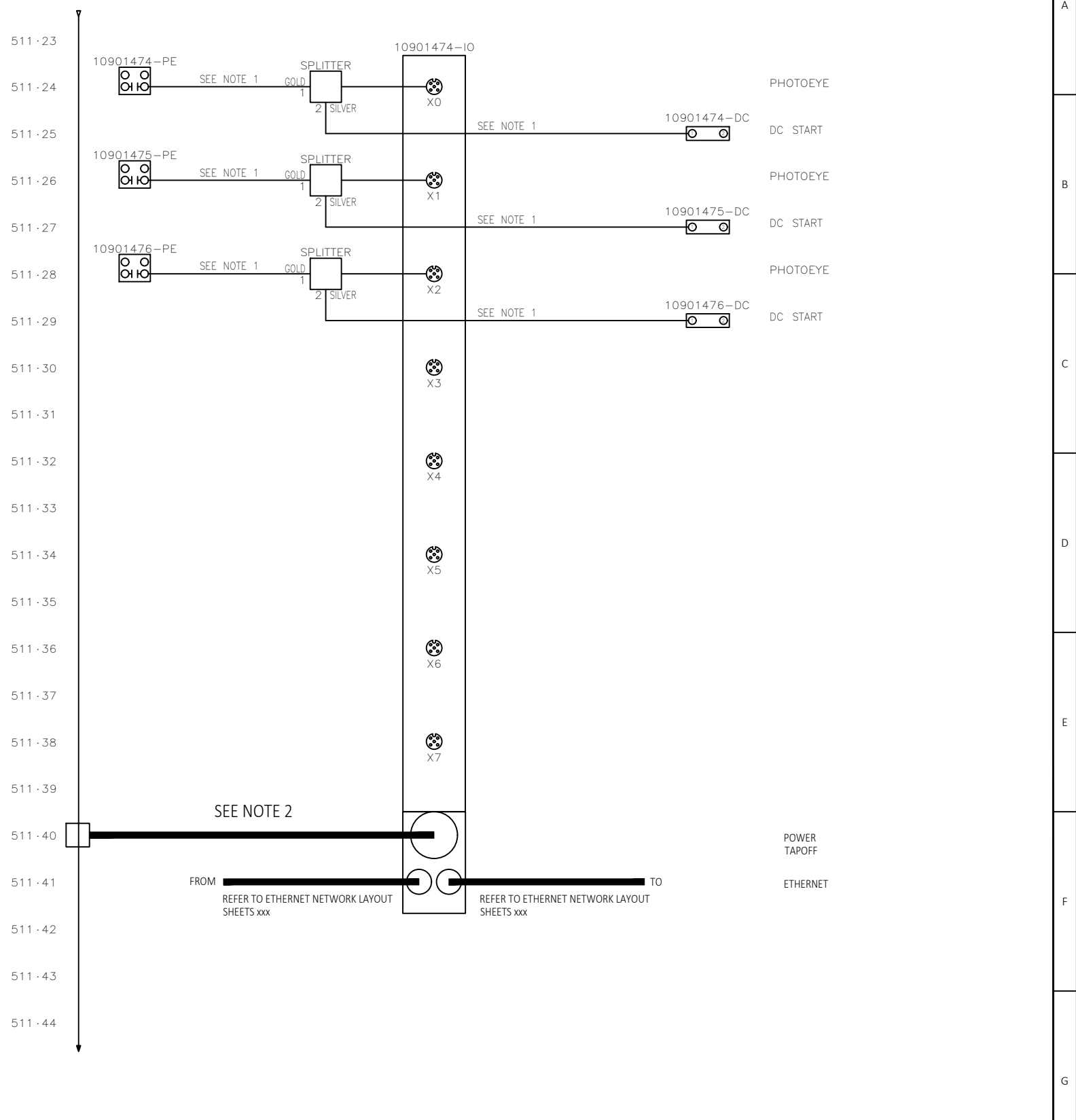
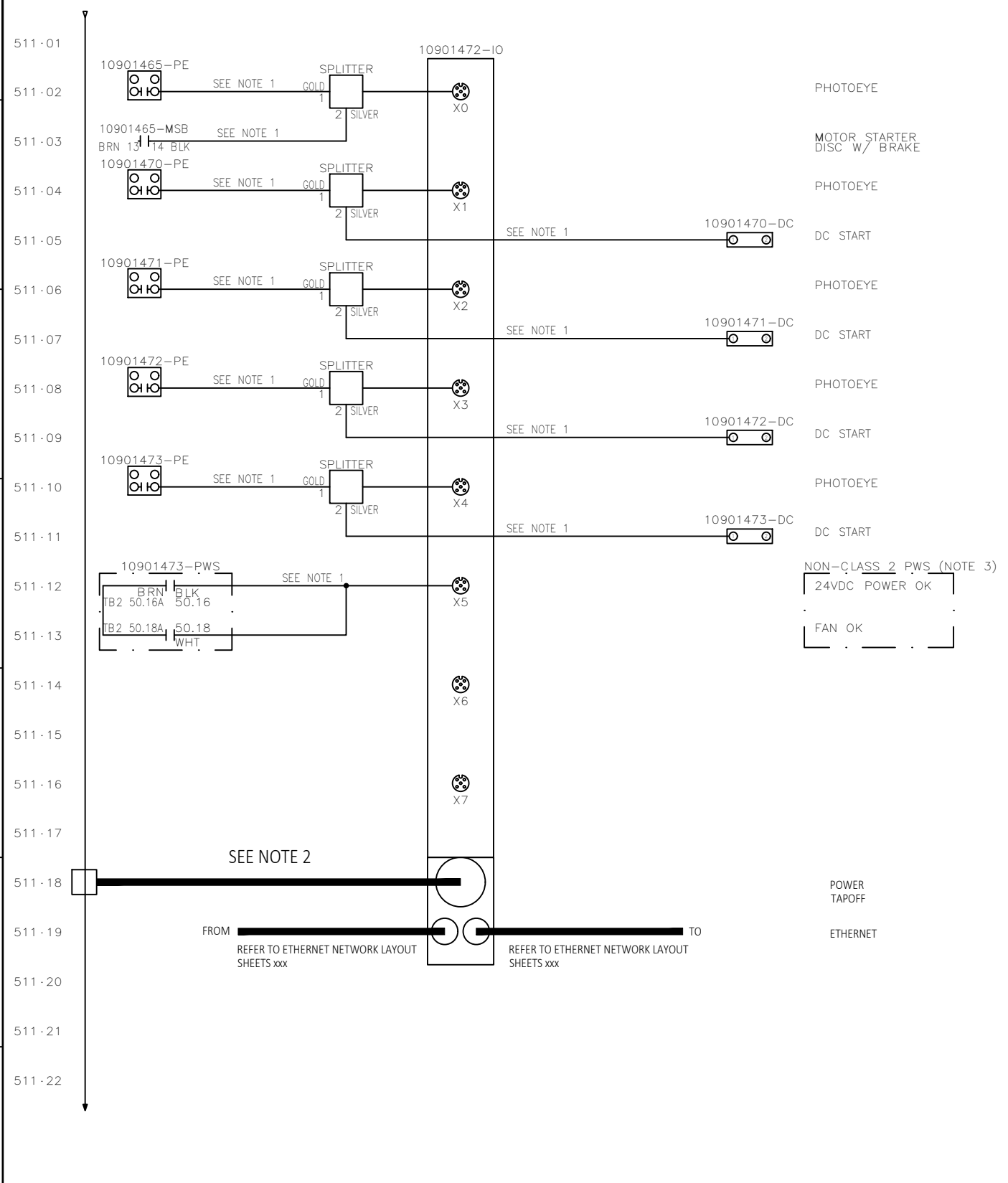
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- NOTES:
1. LABEL ALL CABLES ON BOTH ENDS. CABLE TAG TO BE DEVICE SECTION - DEVICE ABBREVIATION - PORT NUMBER (ie "0101-PE-2.0")
 2. LABEL ALL CABLES ON BOTH ENDS. CABLE TAG FOR POWER TAP TO BE THE SAME AS THE POWER SUPPLY TAG CHANNEL NUMBER (ie "10015678-1")
 3. ADD WIRE JUMPER BETWEEN TB2 #50.16A AND #50.18A FOR NON-CLASS 2 POWER SUPPLY (VI P/N N97500-174)

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- 510
STATUS:		AS BUILT
DRAWN :	USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)
DATE :	07/06/2023	I/O BLOCK SCHEMATIC
SCALE :	NTS	
NUMBER :	29332-431-11090	SHT: 510
EN		REV.: C01

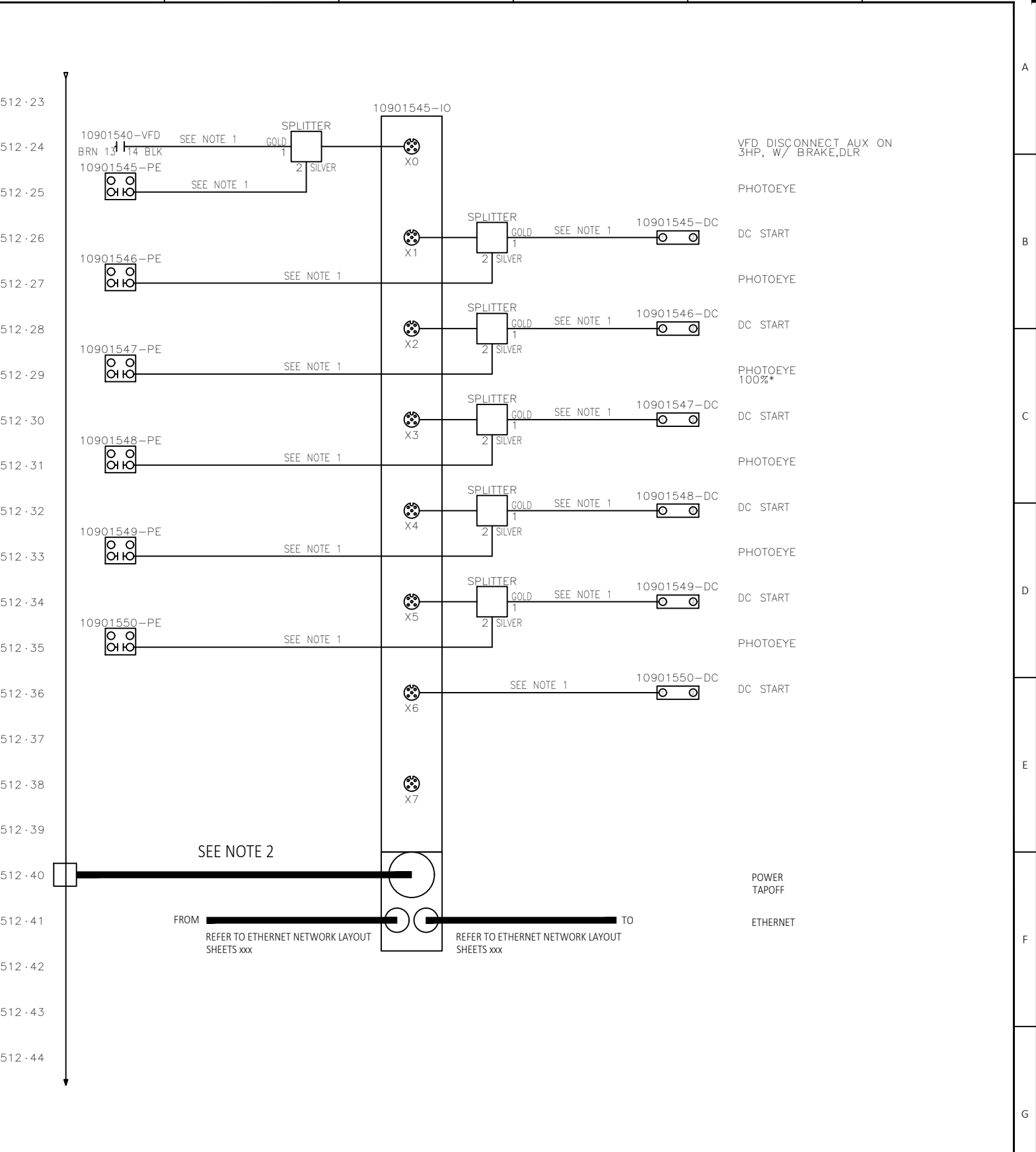
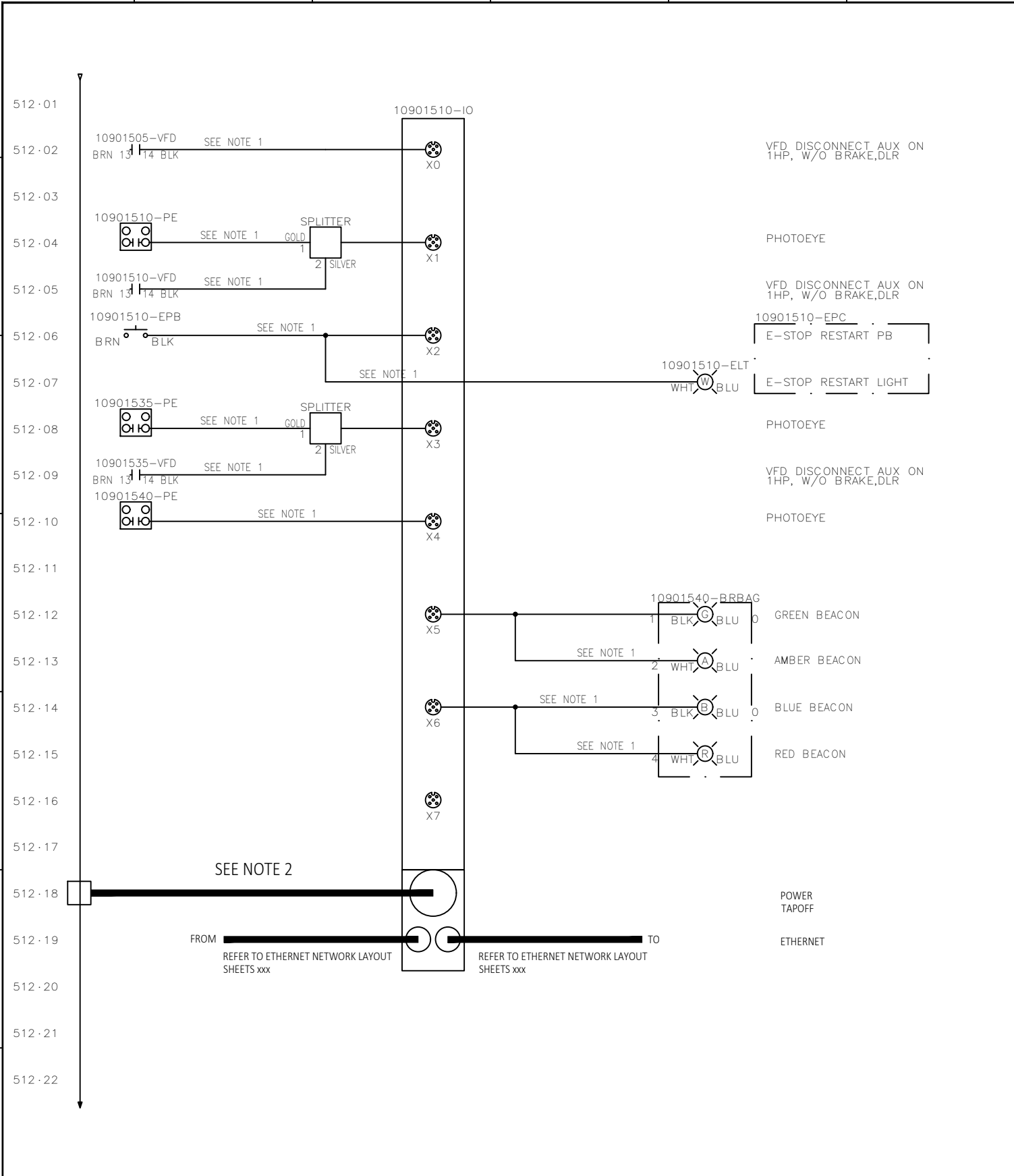


- NOTES:
1. LABEL ALL CABLES ON BOTH ENDS. CABLE TAG TO BE DEVICE SECTION - DEVICE ABBREVIATION - PORT NUMBER (ie "0101-PE-2.0")
 2. LABEL ALL CABLES ON BOTH ENDS. CABLE TAG FOR POWER TAP TO BE THE SAME AS THE POWER SUPPLY TAG CHANNEL NUMBER (ie "10015678-1")
 3. ADD WIRE JUMPER BETWEEN TB2 #50.16A AND #50.18A FOR NON-CLASS 2 POWER SUPPLY (VI P/N N97500-174)

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #: DAB2-E-		511
STATUS:		AS BUILT
DRAWN: USTWILM		TITLE: CP1090 - DOCK SORTER (SPO)
DATE: 07/06/2023		I/O BLOCK SCHEMATIC
SCALE: NTS	NUMBER: 29332-431-11090	SHT: 511
		EN
		REV: C01

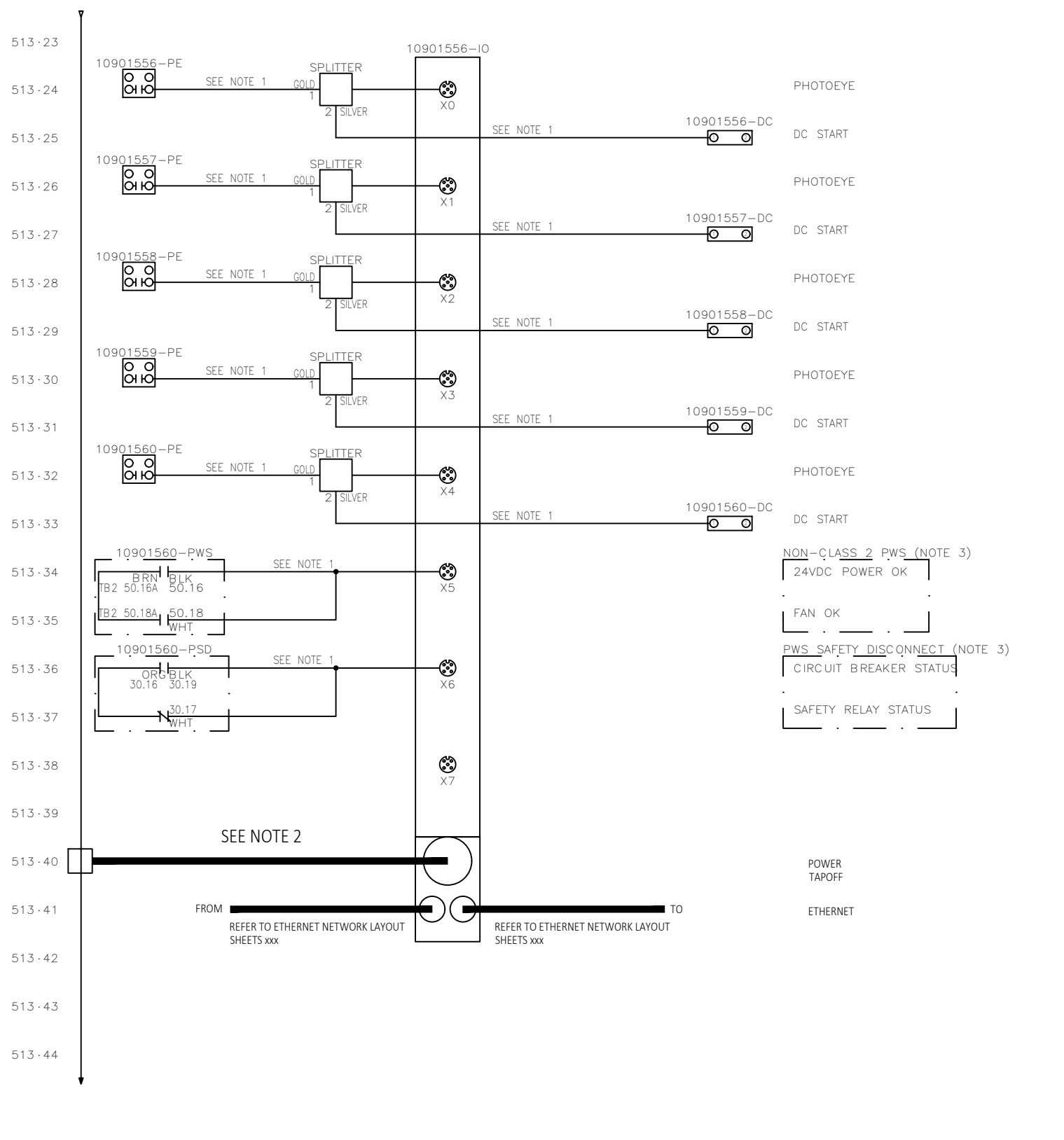
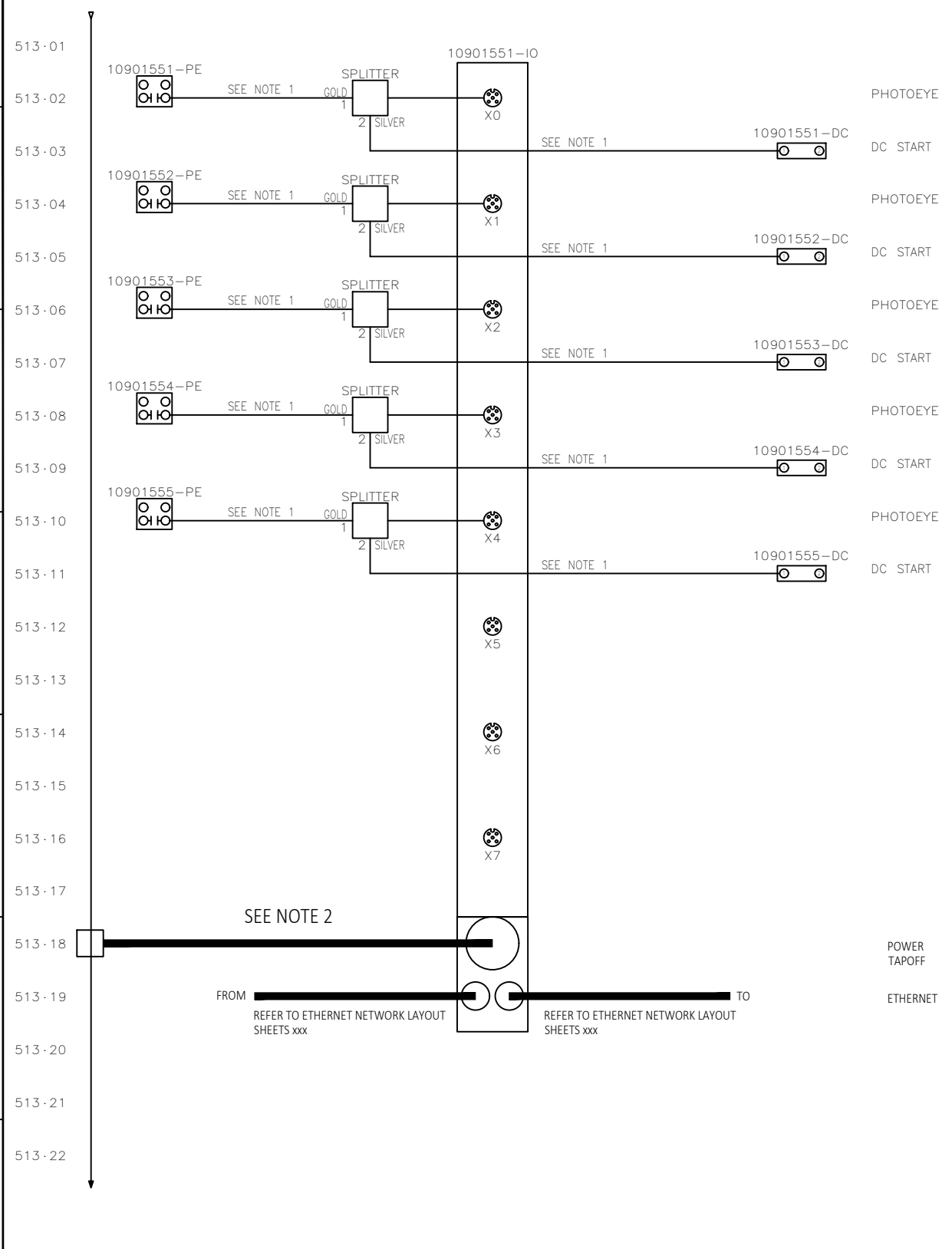
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 PLOTTED BY: USDCHER ON: 27/09/2024 15:09
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- NOTES:**
- LABEL ALL CABLES ON BOTH ENDS. CABLE TAG TO BE DEVICE SECTION - DEVICE ABBREVIATION - PORT NUMBER (ie "0101-PE-2.0")
 - LABEL ALL CABLES ON BOTH ENDS. CABLE TAG FOR POWER TAP TO BE THE SAME AS THE POWER SUPPLY TAG CHANNEL NUMBER (ie "10015678-1")
 - ADD WIRE JUMPER BETWEEN TB2 #50.16A AND #50.18A FOR NON-CLASS 2 POWER SUPPLY (VI P/N N97500-174)

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
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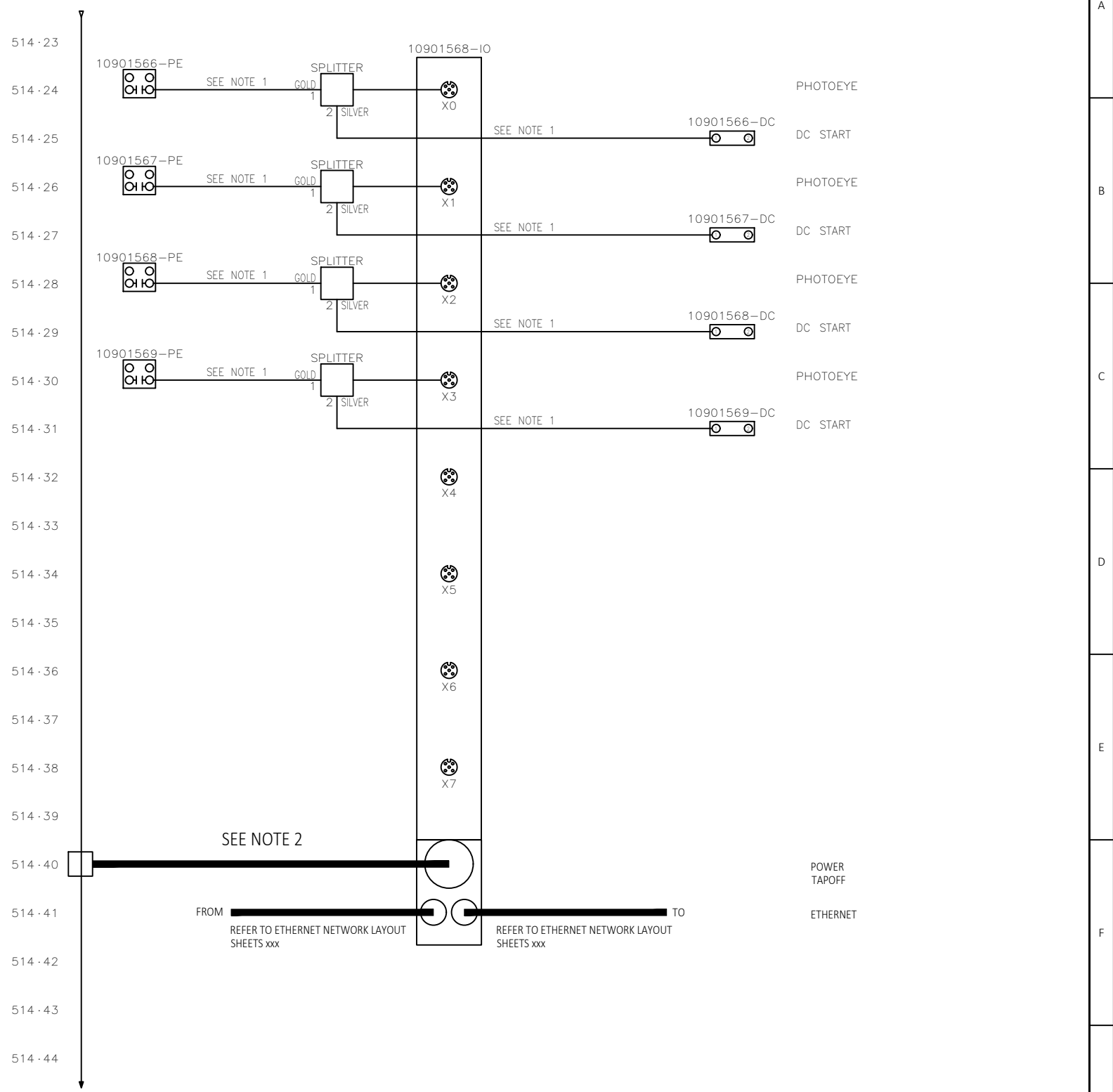
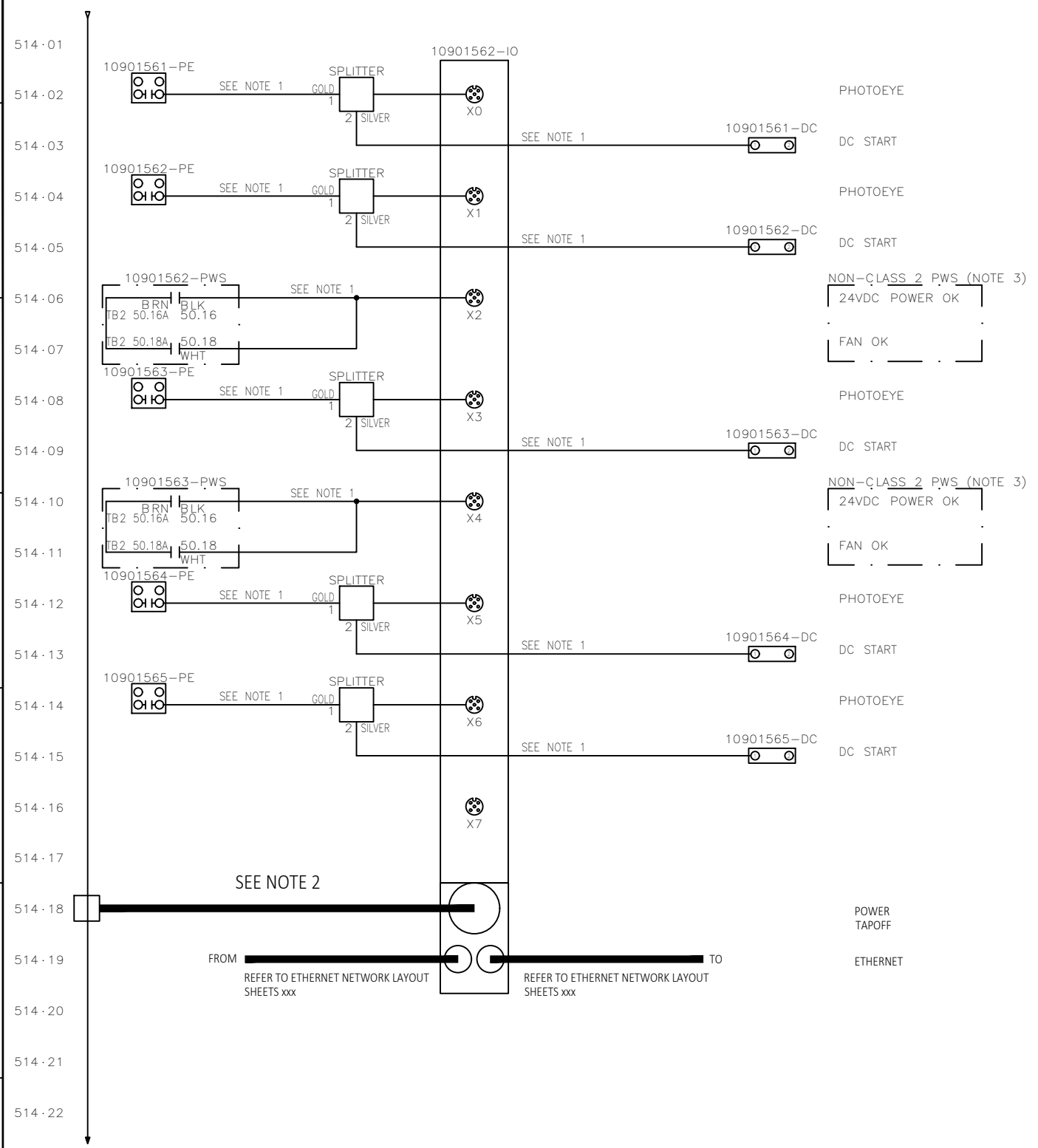
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LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- 512
STATUS:		AS BUILT
DRAWN :	USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)
DATE :	07/06/2023	I/O BLOCK SCHEMATIC
SCALE :	NTS	
NUMBER :	29332-431-11090	SHT: 512
EN		REV: C01



- NOTES:
1. LABEL ALL CABLES ON BOTH ENDS. CABLE TAG TO BE DEVICE SECTION - DEVICE ABBREVIATION - PORT NUMBER (ie "0101-PE-2.0")
 2. LABEL ALL CABLES ON BOTH ENDS. CABLE TAG FOR POWER TAP TO BE THE SAME AS THE POWER SUPPLY TAG CHANNEL NUMBER (ie "10015678-1")
 3. ADD WIRE JUMPER BETWEEN TB2 #50.16A AND #50.18A FOR NON-CLASS 2 POWER SUPPLY (VI P/N N97500-174)

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHEK	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- 513
STATUS:		AS BUILT
DRAWN :	USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)
DATE :	07/06/2023	I/O BLOCK SCHEMATIC
SCALE :	NTS	
NUMBER :	29332-431-11090	SHT: 513
EN		REV.: C01

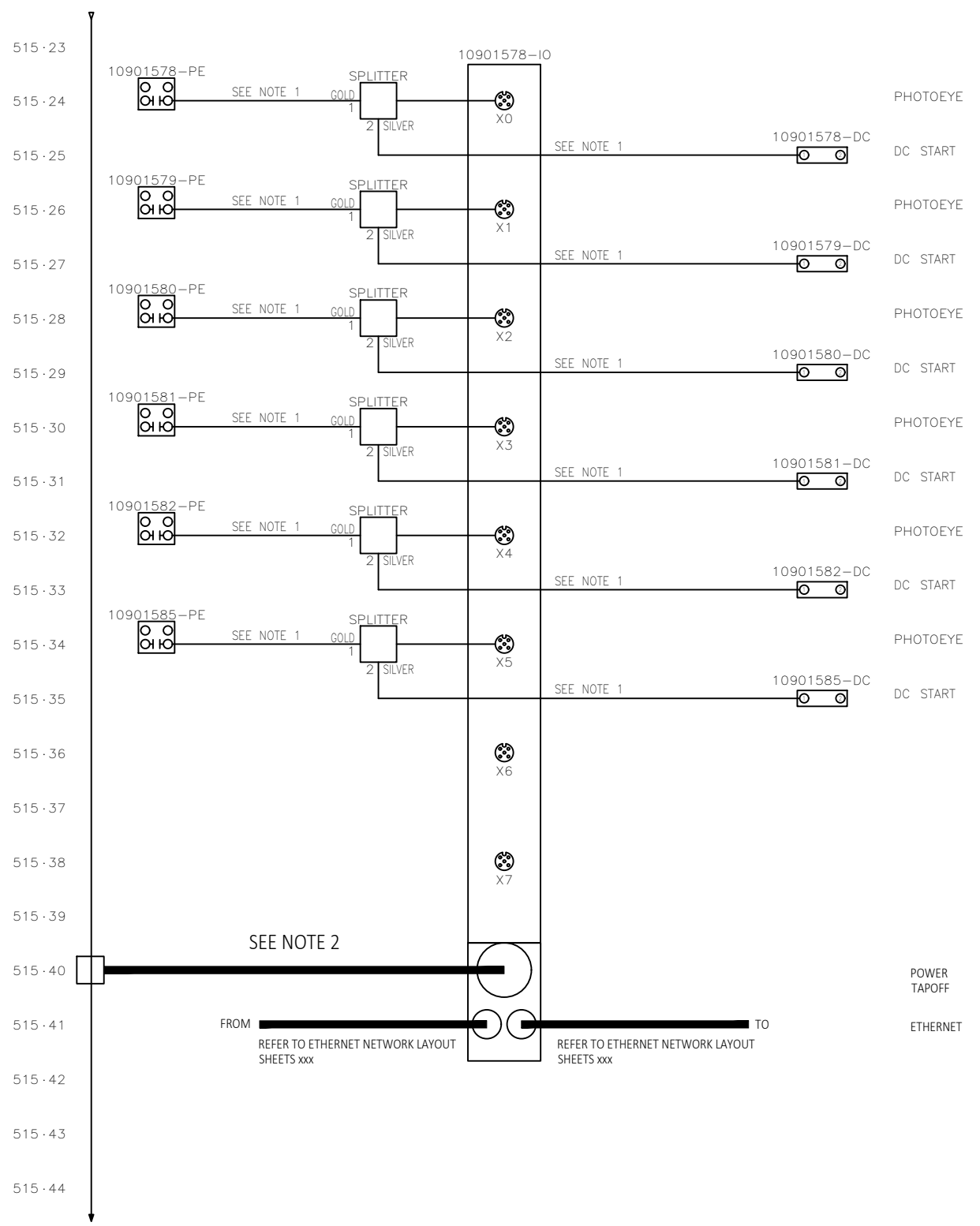
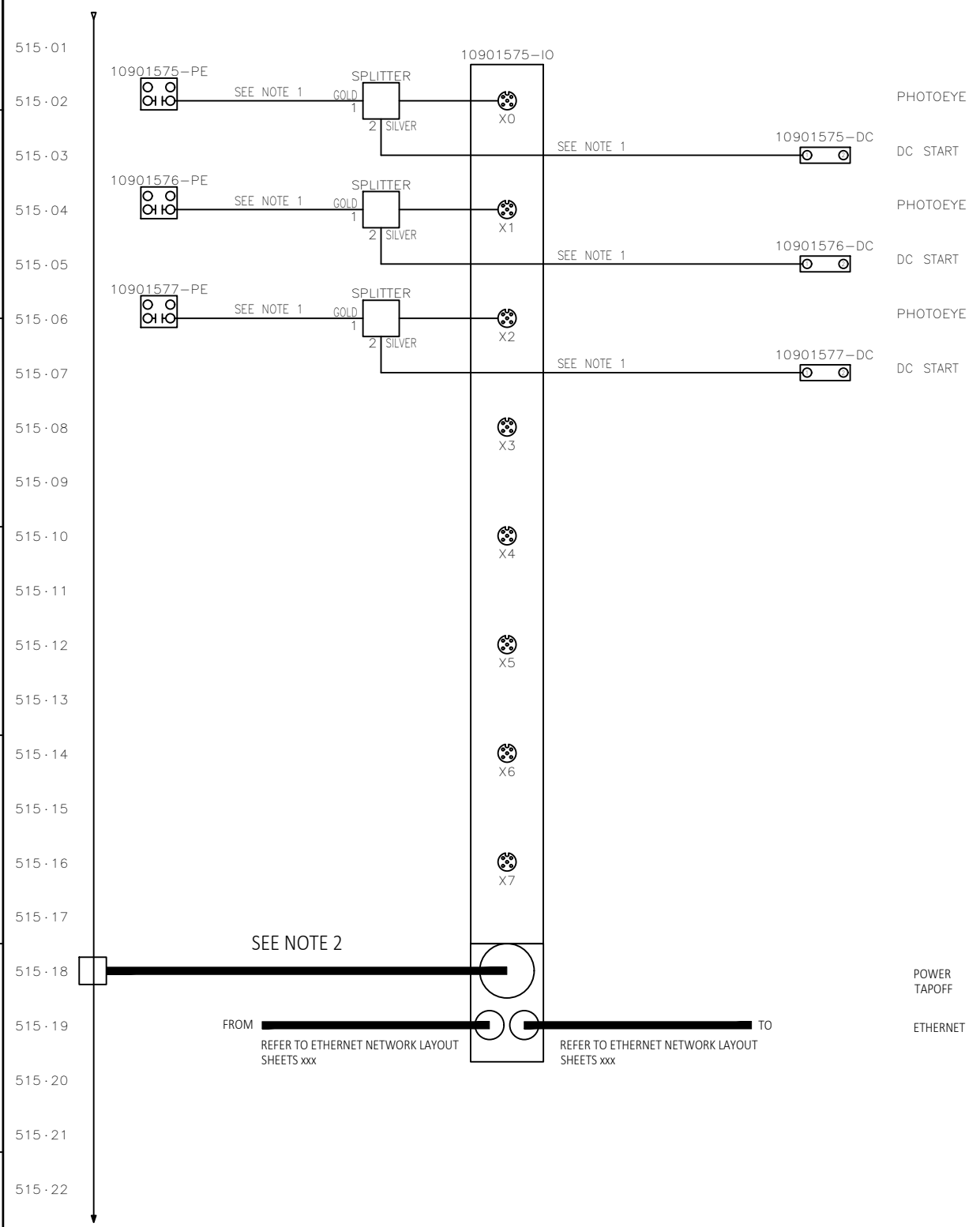


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 2. LABEL ALL CABLES ON BOTH ENDS. CABLE TAG FOR POWER TAP TO BE THE SAME AS THE POWER SUPPLY TAG CHANNEL NUMBER (ie "10015678-1")
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REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- 514
STATUS:		AS BUILT
DRAWN :		USTWILM
DATE :		07/06/2023
TITLE :		CP1090 - DOCK SORTER (SPO) I/O BLOCK SCHEMATIC
SCALE :	NTS	
NUMBER :	29332-431-11090	SHT: 514
EN		REV.: C01

FILENAME: 29332-431-11090-515.DWG
 PLOTTED BY: USDCHER ON: 27/09/2024 15:10
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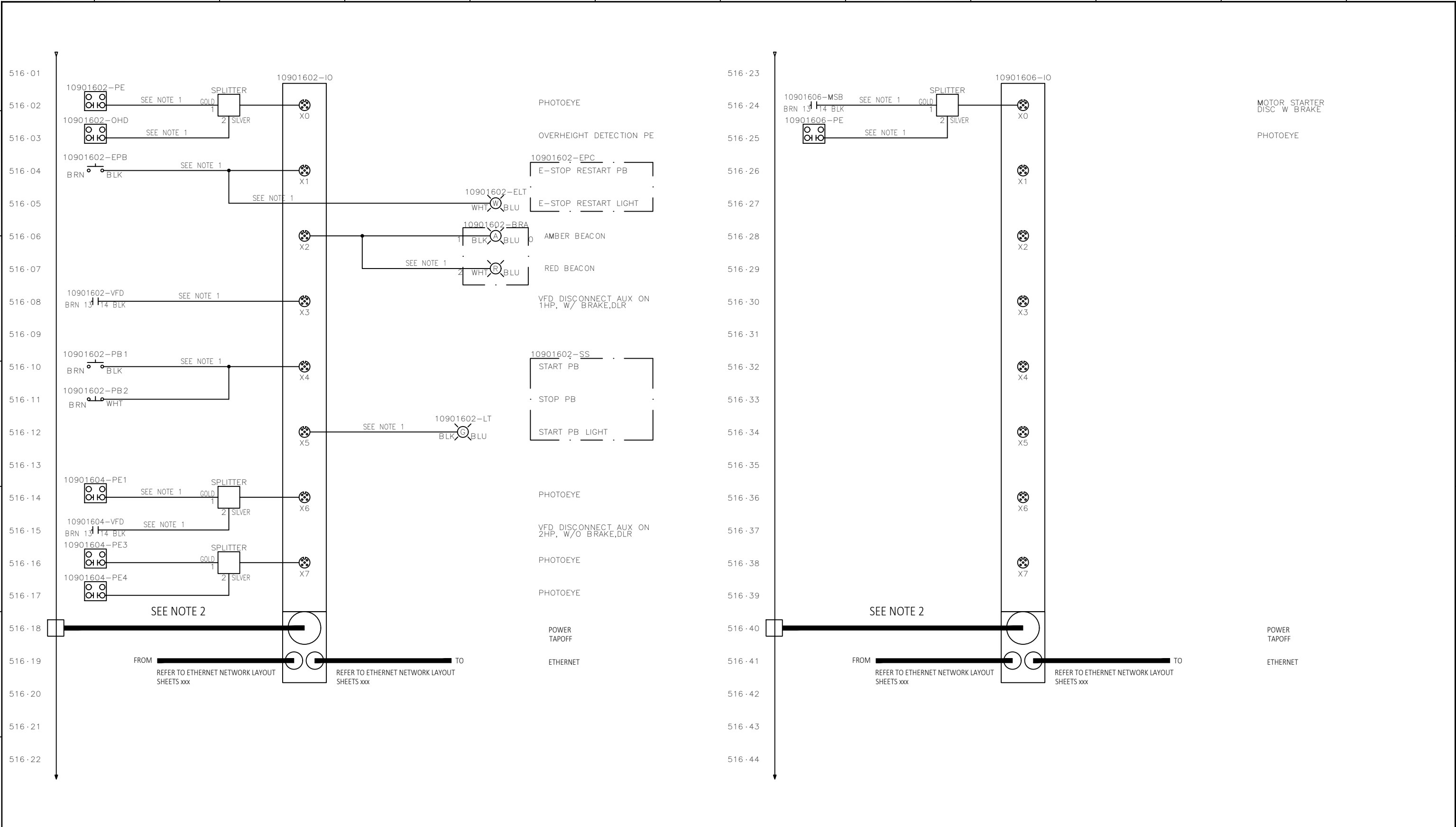


- NOTES:**
- LABEL ALL CABLES ON BOTH ENDS. CABLE TAG TO BE DEVICE SECTION - DEVICE ABBREVIATION - PORT NUMBER (ie "0101-PE-2.0")
 - LABEL ALL CABLES ON BOTH ENDS. CABLE TAG FOR POWER TAP TO BE THE SAME AS THE POWER SUPPLY TAG CHANNEL NUMBER (ie "10015678-1")
 - ADD WIRE JUMPER BETWEEN TB2 #50.16A AND #50.18A FOR NON-CLASS 2 POWER SUPPLY (VI P/N N97500-174)

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- - 515
STATUS:		AS BUILT
DRAWN :	USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)
DATE :	07/06/2023	I/O BLOCK SCHEMATIC
SCALE :	NTS	
NUMBER :	29332-431-11090	SHT: 515
EN		REV.: C01

FILENAME: 29332-431-11090-516.DWG
 PLOTTED BY: USDCHER ON: 27/09/2024 15:10
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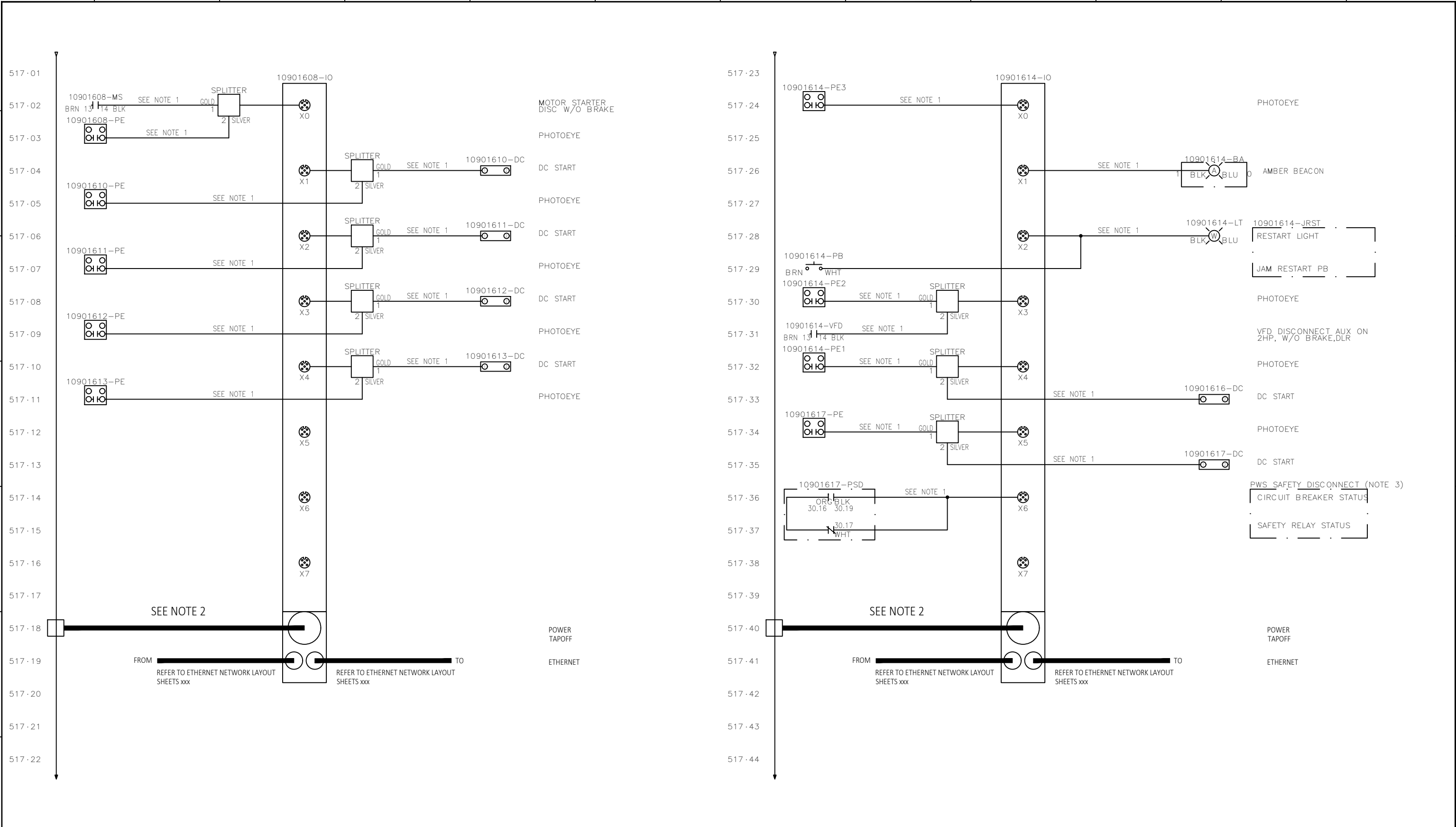
- NOTES:**
- LABEL ALL CABLES ON BOTH ENDS. CABLE TAG TO BE DEVICE SECTION - DEVICE ABBREVIATION - PORT NUMBER (ie "0101-PE-2.0")
 - LABEL ALL CABLES ON BOTH ENDS. CABLE TAG FOR POWER TAP TO BE THE SAME AS THE POWER SUPPLY TAG CHANNEL NUMBER (ie "10015678-1")
 - ADD WIRE JUMPER BETWEEN TB2 #50.16A AND #50.18A FOR NON-CLASS 2 POWER SUPPLY (VI P/N N97500-174)

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- - 516
STATUS:		AS BUILT
DRAWN:	USTWILM	TITLE: CP1090 - DOCK SORTER (SPO)
DATE:	07/06/2023	I/O BLOCK SCHEMATIC
SCALE:	NTS	
NUMBER:	29332-431-11090	SHT: 516
EN		REV.: C01

FILENAME: 29332-431-11090-517.DWG
 PLOTTED BY: USDCHER ON: 27/09/2024 15:10

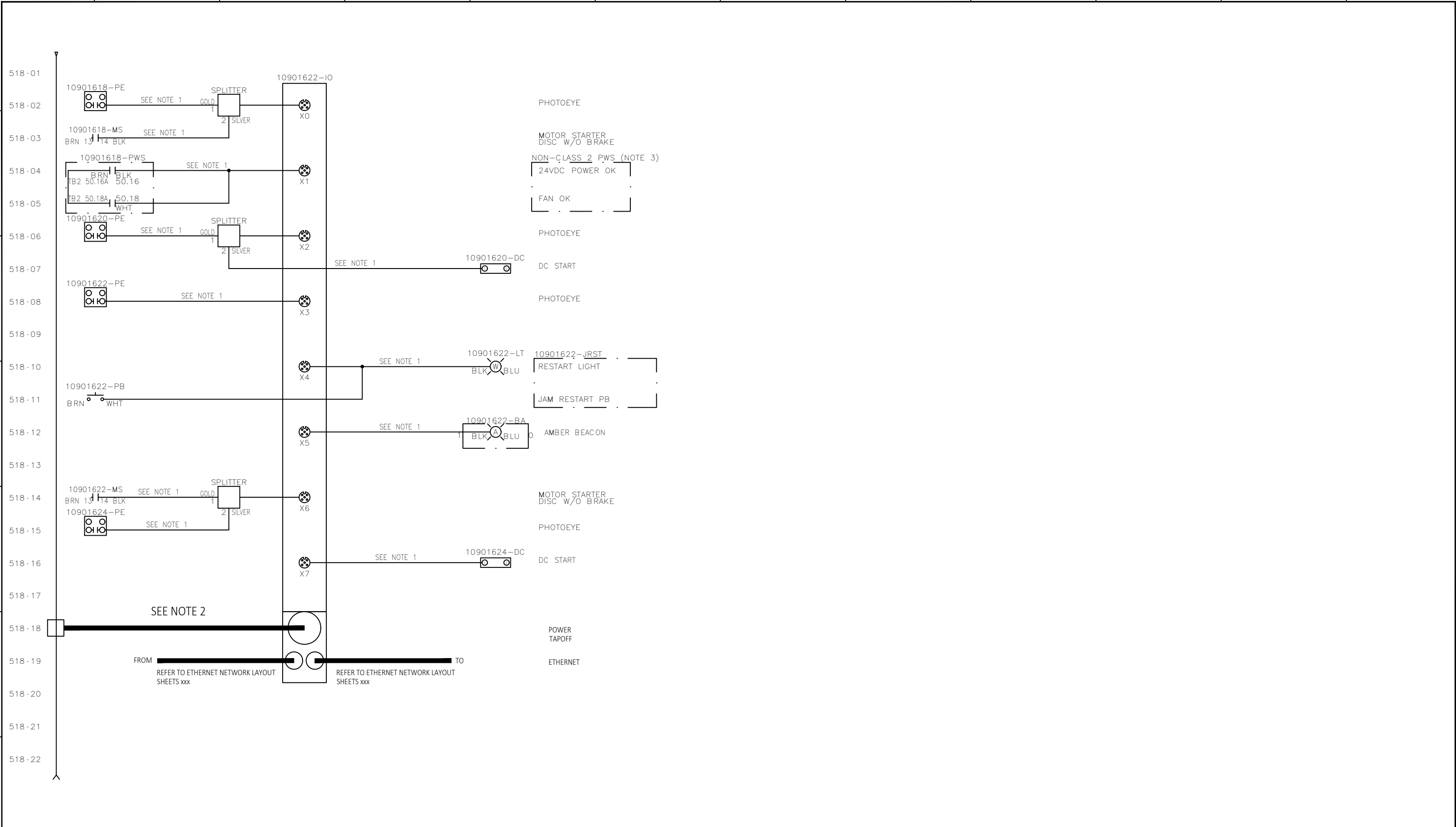
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- NOTES:
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 2. LABEL ALL CABLES ON BOTH ENDS. CABLE TAG FOR POWER TAP TO BE THE SAME AS THE POWER SUPPLY TAG CHANNEL NUMBER (ie "10015678-1")
 3. ADD WIRE JUMPER BETWEEN TB2 #50.16A AND #50.18A FOR NON-CLASS 2 POWER SUPPLY (VI P/N N97500-174)

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- 517
STATUS:		AS BUILT
DRAWN :	USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)
DATE :	07/06/2023	I/O BLOCK SCHEMATIC
SCALE :	NTS	
NUMBER :	29332-431-11090	SHT: 517
EN		REV.: C01



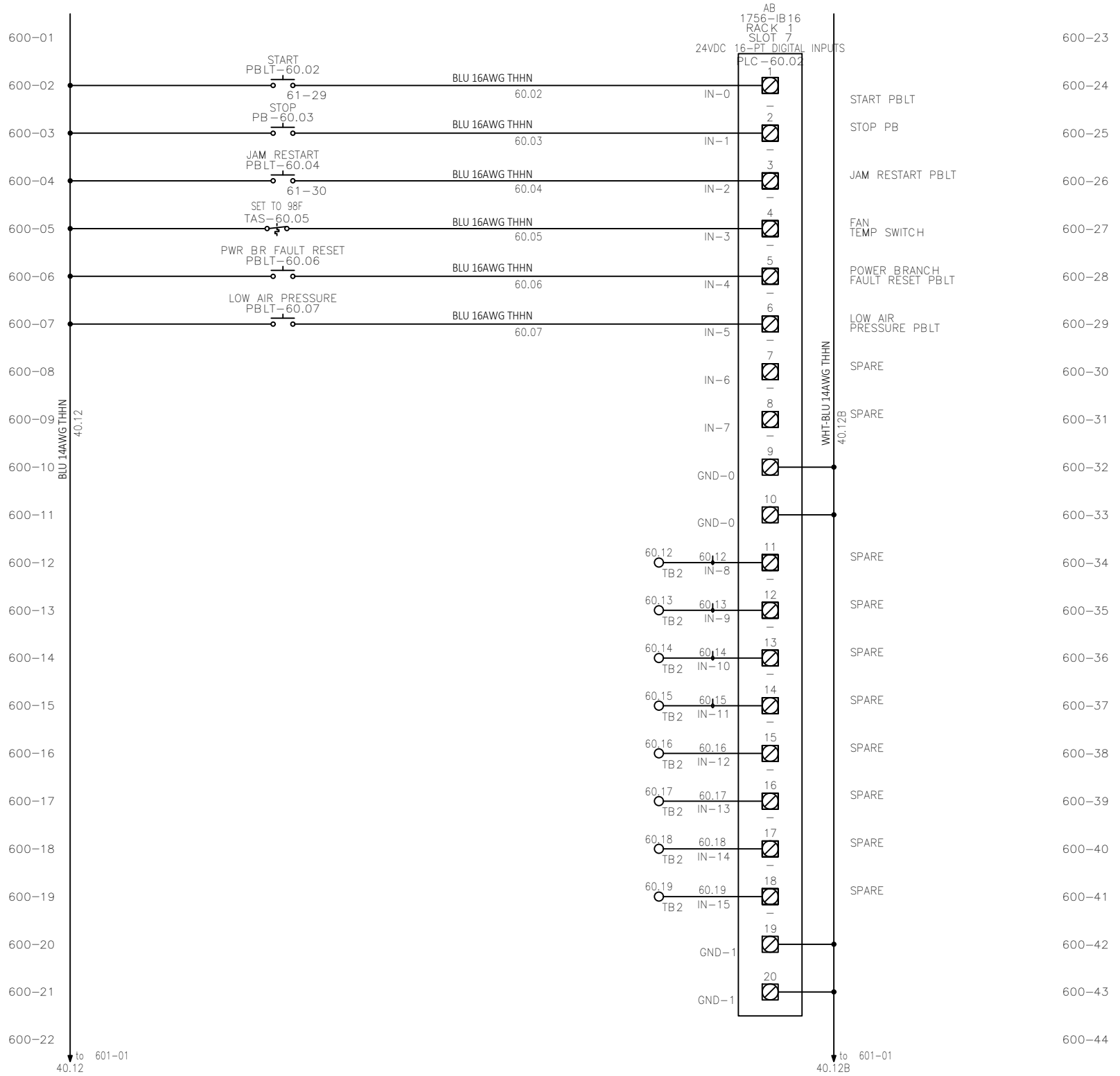
- NOTES:
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 2. LABEL ALL CABLES ON BOTH ENDS. CABLE TAG FOR POWER TAP TO BE THE SAME AS THE POWER SUPPLY TAG CHANNEL NUMBER (ie "10015678-1")
 3. ADD WIRE JUMPER BETWEEN TB2 #50.16A AND #50.18A FOR NON-CLASS 2 POWER SUPPLY (VI P/N N97500-174)

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHEER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- 518
STATUS:		
DRAWN :		USTWILM
DATE :		07/06/2023
SCALE :		NTS
NUMBER :	29332-431-11090	SHT: 518
EN	EN	REV.: C01

1090-CP - 24VDC DIGITAL INPUTS

REFER TO PRODUCT DWG N97500-194 REV A02



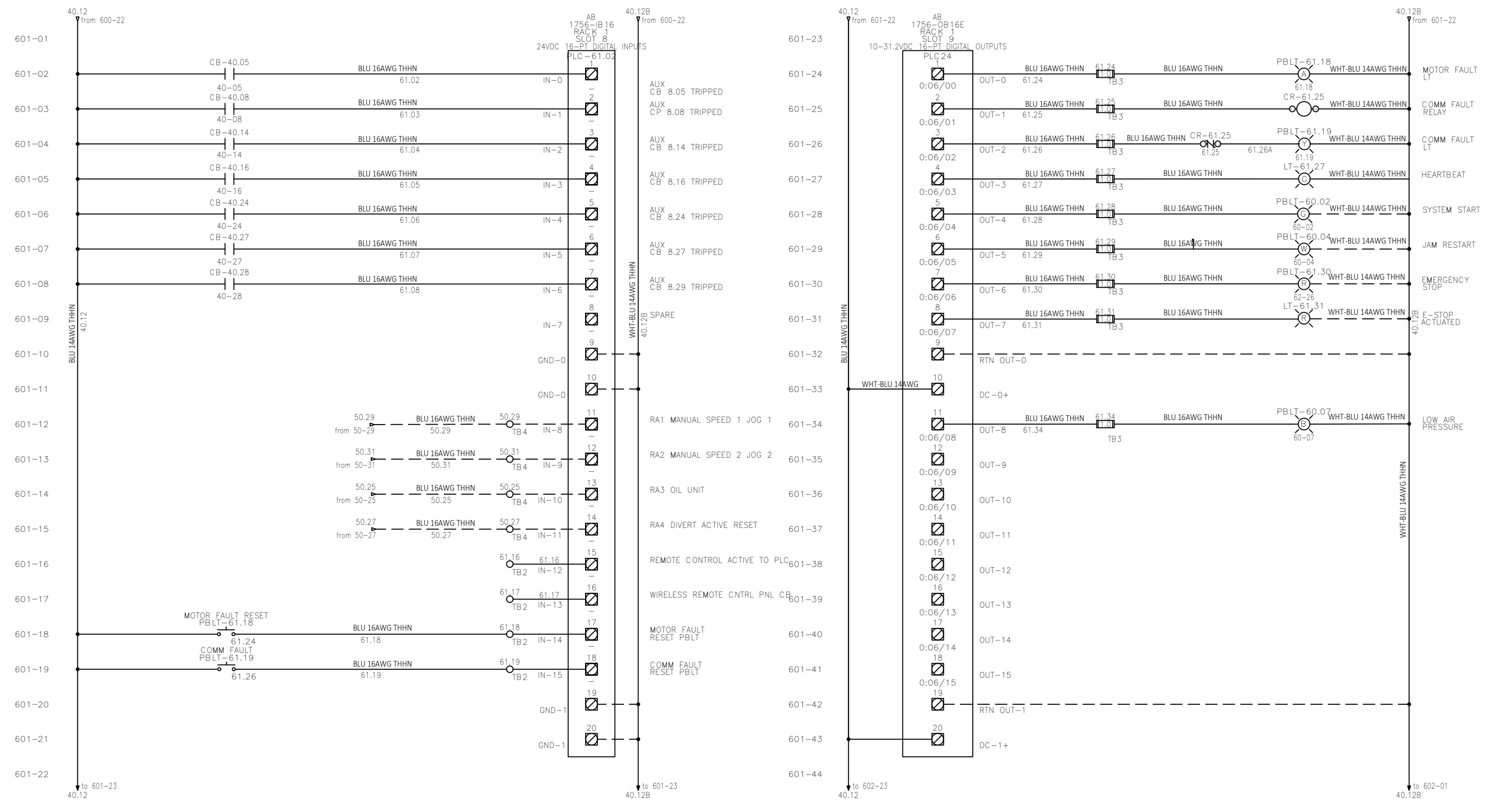
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REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- - 600
STATUS:		AS BUILT
DRAWN :	USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)
DATE :	07/06/2023	1090-CP-24VDC DIGITAL INPUTS
SCALE :	NTS	
NUMBER :	29332-431 -11090	SHT: 600
EN		REV: C01

1090-CP - 24VDC DIGITAL INPUTS & OUTPUTS

FILENAME: 29332-431-11090-601.DWG
 PLOTTED BY: USDCHEM ON: 27/09/2024 15:11
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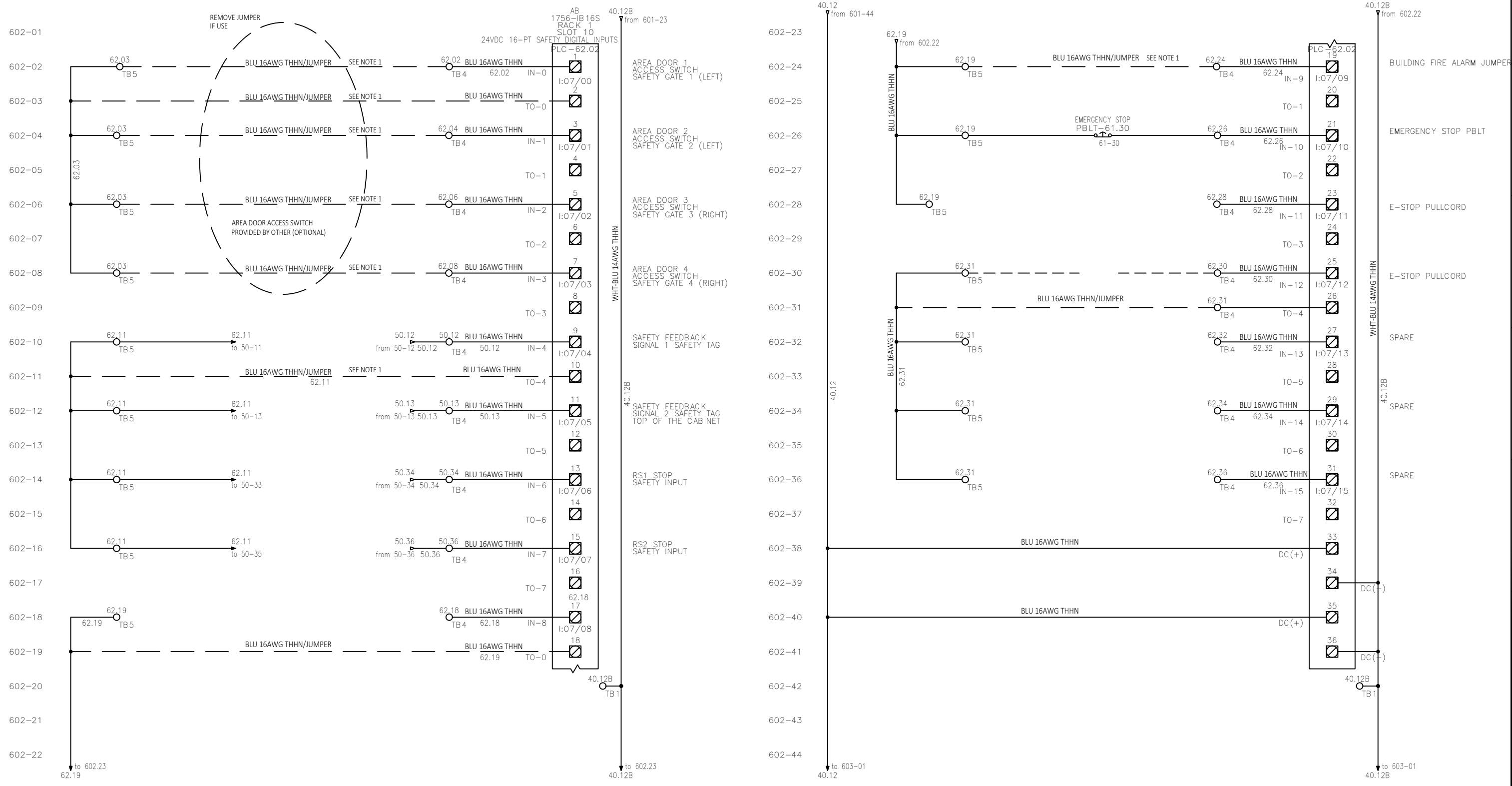


REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION						
						CUSTOMER :					
						LOCATION :					
						CUSTOMER DRAWING #: DAB2-E- - 601					
						STATUS:					
						AS BUILT					
						DRAWN : USTWILM		TITLE : CP1090 - DOCK SORTER (SPO)			
						DATE : 07/06/2023		1090-CP-24VDC DIGITAL INPUTS & OUTPUTS			
						SCALE : NTS		NUMBER : 29332-431-11090	SHT: 601	EN	REV: C01
C01	USDCHEM	USMVHI	USMVHI	09/27/2024	AS BUILT						

1090-CP - 24VDC DIGITAL SAFETY INPUTS

FILENAME: 29332-431-11090-602.DWG
PLOTED BY: USDCHEK ON: 27-09-2024 15:11

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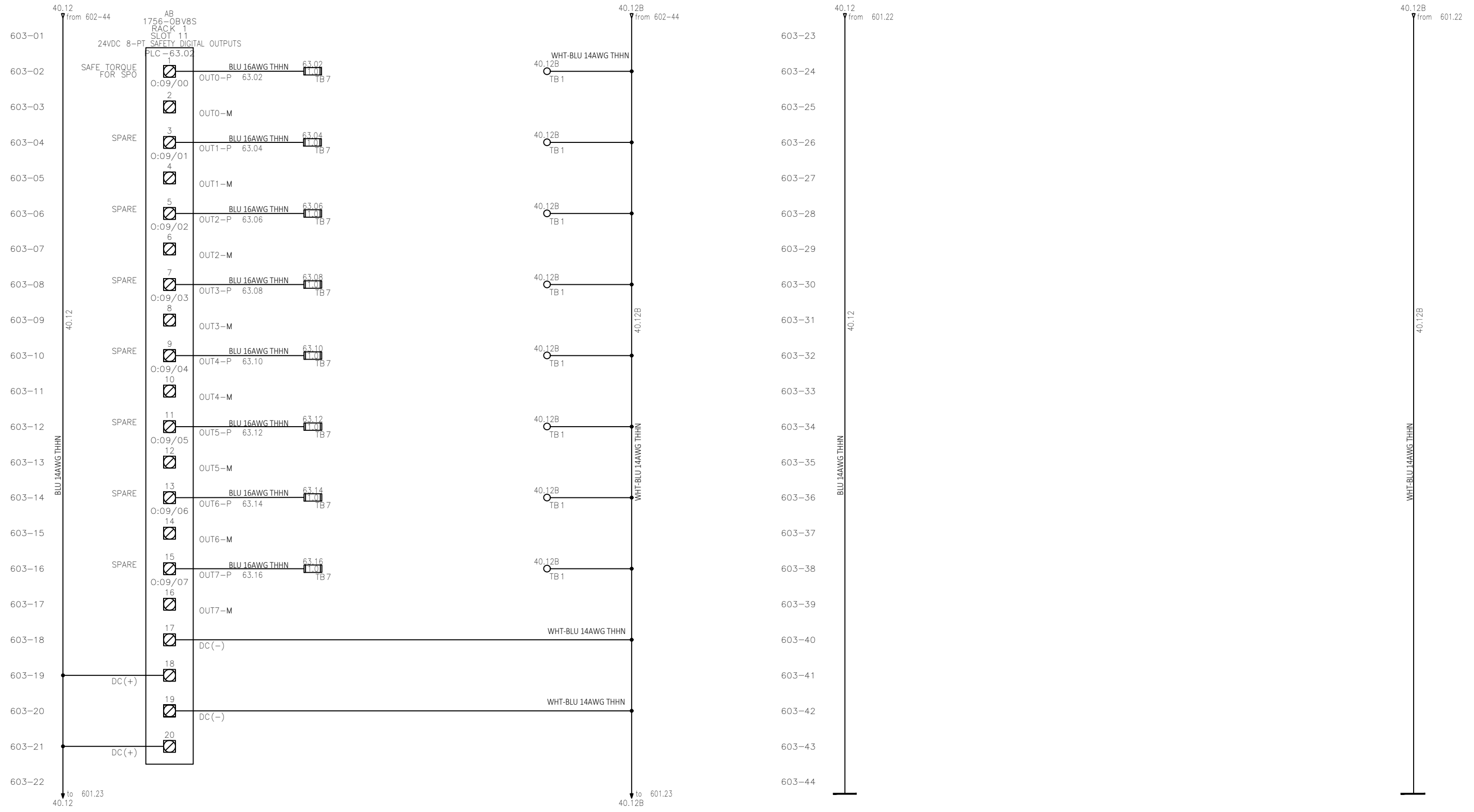
NOTE#1: LAPP OLFLEX P/N: 602004 CABLE TO BE USED FOR MAKING CONNECTION FROM PANEL TO PULLCORD. OTHER SIMILAR TYPES OF CABLES CAN BE USED. (BLK1 - 24VDC / BLK2 - 0VDC / BLK3 - SIGNAL)
NOTE#2: INTERLOCKING WIRES MUST BE ORANGE (ORG) IN COLOR PER SPECIFICATIONS

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHEK	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- - 602
STATUS:		AS BUILT
DRAWN :	USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)
DATE :	07/06/2023	1090-CP-24VDC DIGITAL SAFETY INPUTS
SCALE :	NTS	NUMBER : 29332-431-11090
		SHT: 602
		EN
		REV.: C01

1090-CP - 24VDC DIGITAL SAFETY OUTPUTS

FILENAME: 29332-431-11090-603.DWG
 PLOTTED BY: USDCHEER ON: 27/09/2024 15:12



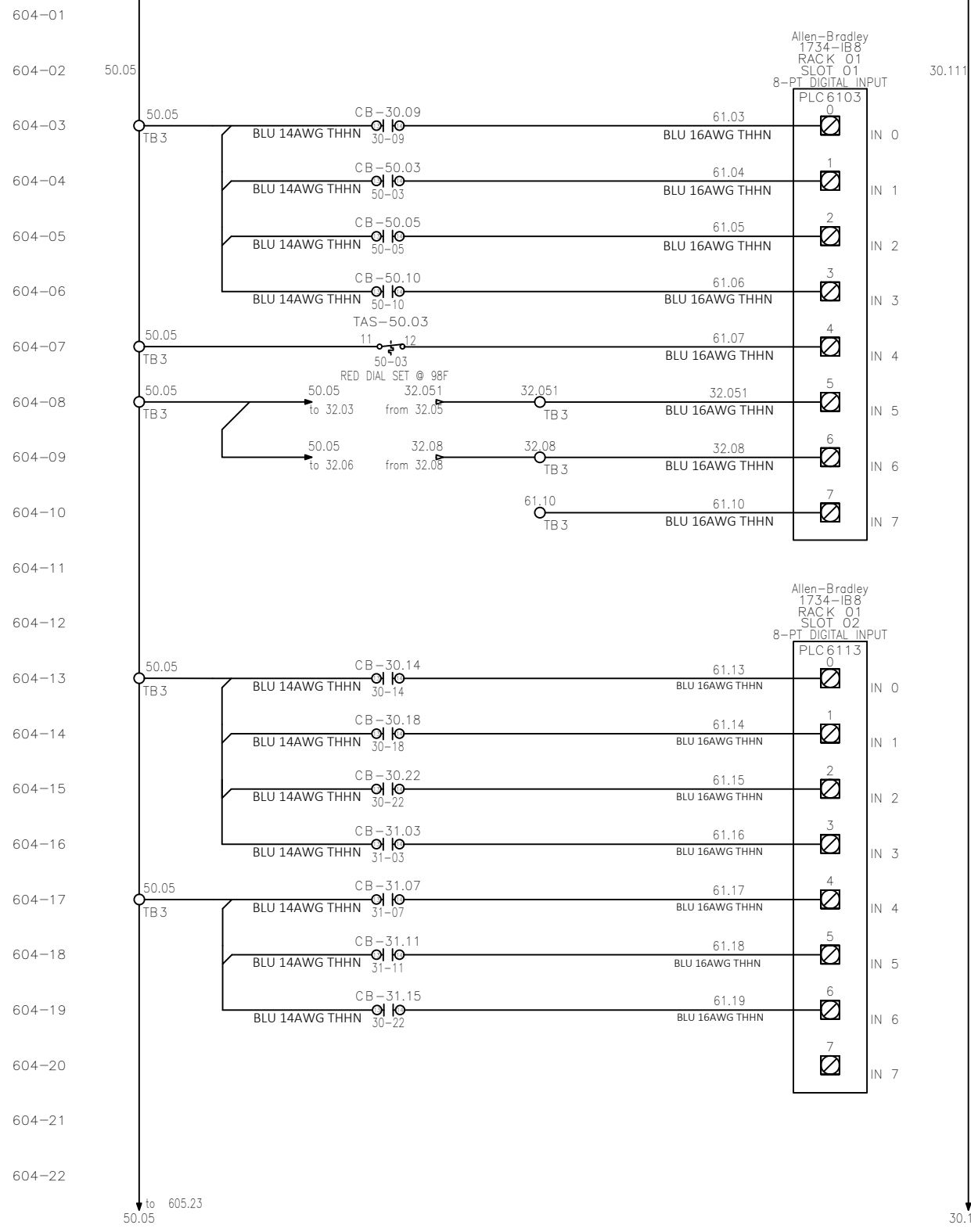
NOTE#1: YELLOW ASI FLAT CABLE (#14 OR #16 AWG) TO BE USED TO FOR MAKING CONNECTION FROM PANEL TO VFD, 24V PWS OR LMS. OTHER SIMILAR TYPES OF CABLES CAN BE USED (BRN - 24VDC / BLU - 0VDC)
NOTE#2: INTERLOCKING WIRES MUST BE ORANGE (ORG) IN COLOR PER SPECIFICATIONS

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION						
						CUSTOMER :					
						LOCATION :					
						CUSTOMER DRAWING #: DAB2-E- - 603					
						STATUS:					
						AS BUILT					
						DRAWN : USTWILM		TITLE : CP1090 - DOCK SORTER (SPO)			
						DATE : 07/06/2023		1090-CP-24VDC DIGITAL SAFETY OUTPUTS			
						SCALE : NTS		NUMBER : 29332-431-11090	SHT: 603	EN	REV.:
C01	USDCHEER	USMVHI	USMVHI	09/27/2024	AS BUILT						C01

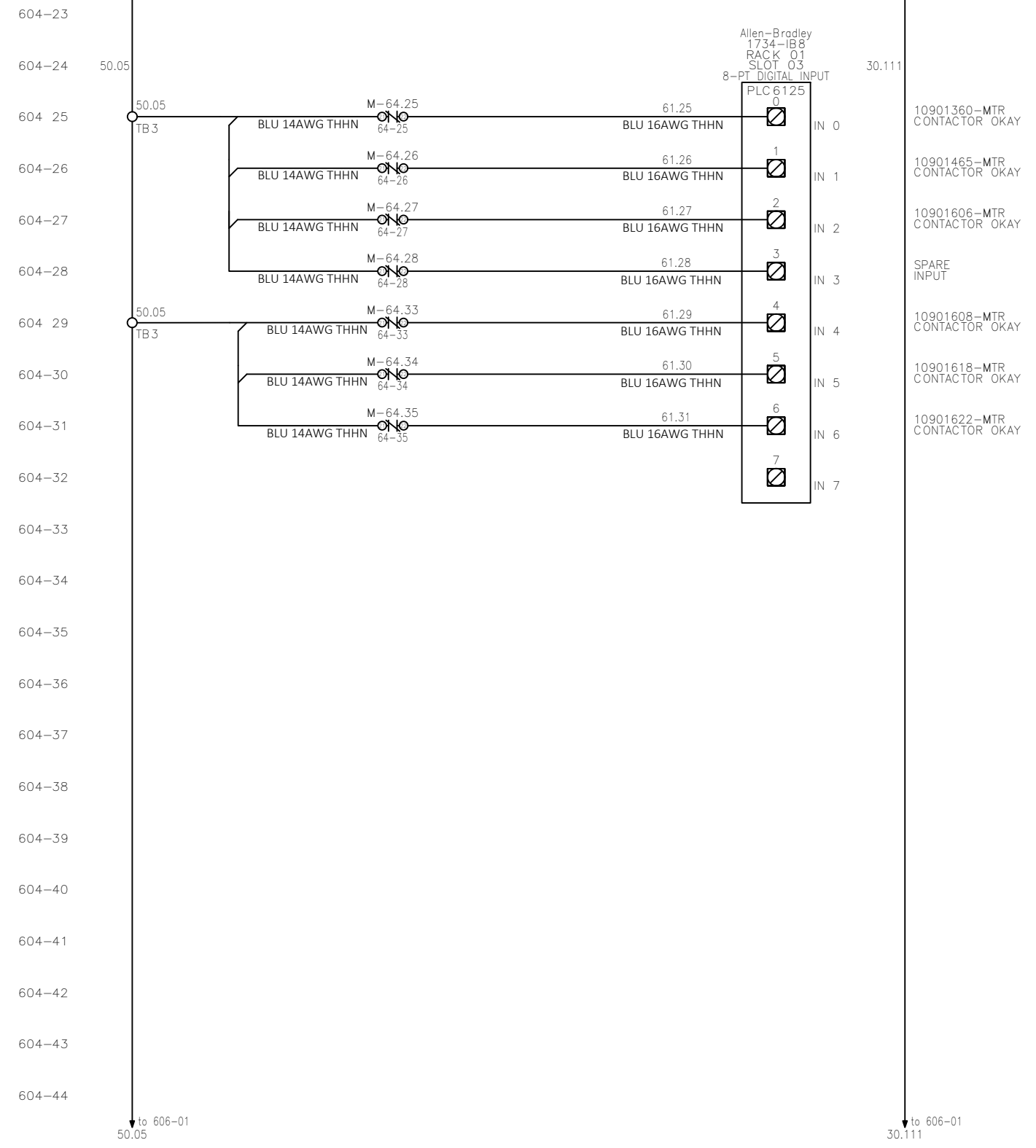
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1090-MSP01 - 24VDC DIGITAL INPUTS

REFER TO PRODUCT DWG N97500-165 REV I01



- IN 0 CB TRIPPED 24VDC POWER
- IN 1 CB TRIPPED FAN
- IN 2 CB TRIPPED POINT I/O POWER AND ETHERNET ADAPTER
- IN 3 CB TRIPPED I/O MODULE POWER
- IN 4 PANEL THERMOSTAT OVERTEMPERATURE TRIP
- IN 5 PHASE MONITOR STATUS 1
- IN 6 PHASE MONITOR STATUS 2
- IN 7
- IN 0 CB TRIPPED 10901360-MTR
- IN 1 CB TRIPPED 10901465-MTR
- IN 2 CB TRIPPED 10901606-MTR
- IN 3 SPARE INPUT
- IN 4 CB TRIPPED 10901608-MTR
- IN 5 CB TRIPPED 10901618-MTR
- IN 6 CB TRIPPED 10901622-MTR
- IN 7



- IN 0 10901360-MTR CONTACTOR OKAY
- IN 1 10901465-MTR CONTACTOR OKAY
- IN 2 10901606-MTR CONTACTOR OKAY
- IN 3 SPARE INPUT
- IN 4 10901608-MTR CONTACTOR OKAY
- IN 5 10901618-MTR CONTACTOR OKAY
- IN 6 10901622-MTR CONTACTOR OKAY
- IN 7

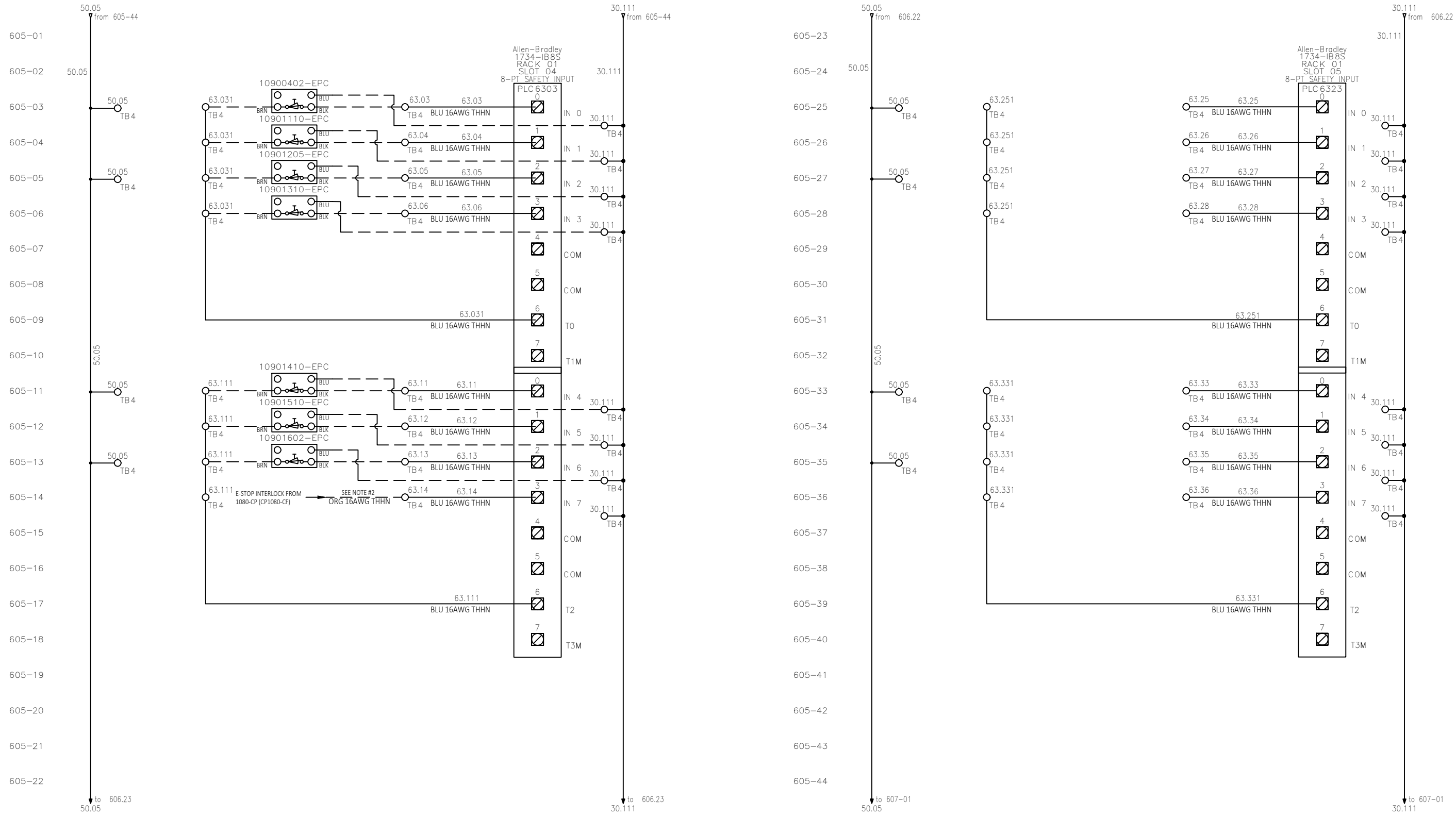
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C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- 604
STATUS:		AS BUILT
DRAWN :	USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)
DATE :	07/06/2023	1090-MSP01-24VDC DIGITAL INPUTS
SCALE :	NTS	NUMBER : 29332-431-11090
		SHT: 604 EN REV: C01

FILENAME: 29332-431-11090-605.DWG
 PLOTTED BY: USDCHER ON: 27/09/2024 15:12
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1090-MSP01 - 24VDC DIGITAL SAFETY INPUTS

FILENAME: 29332-431-11090-06.DWG
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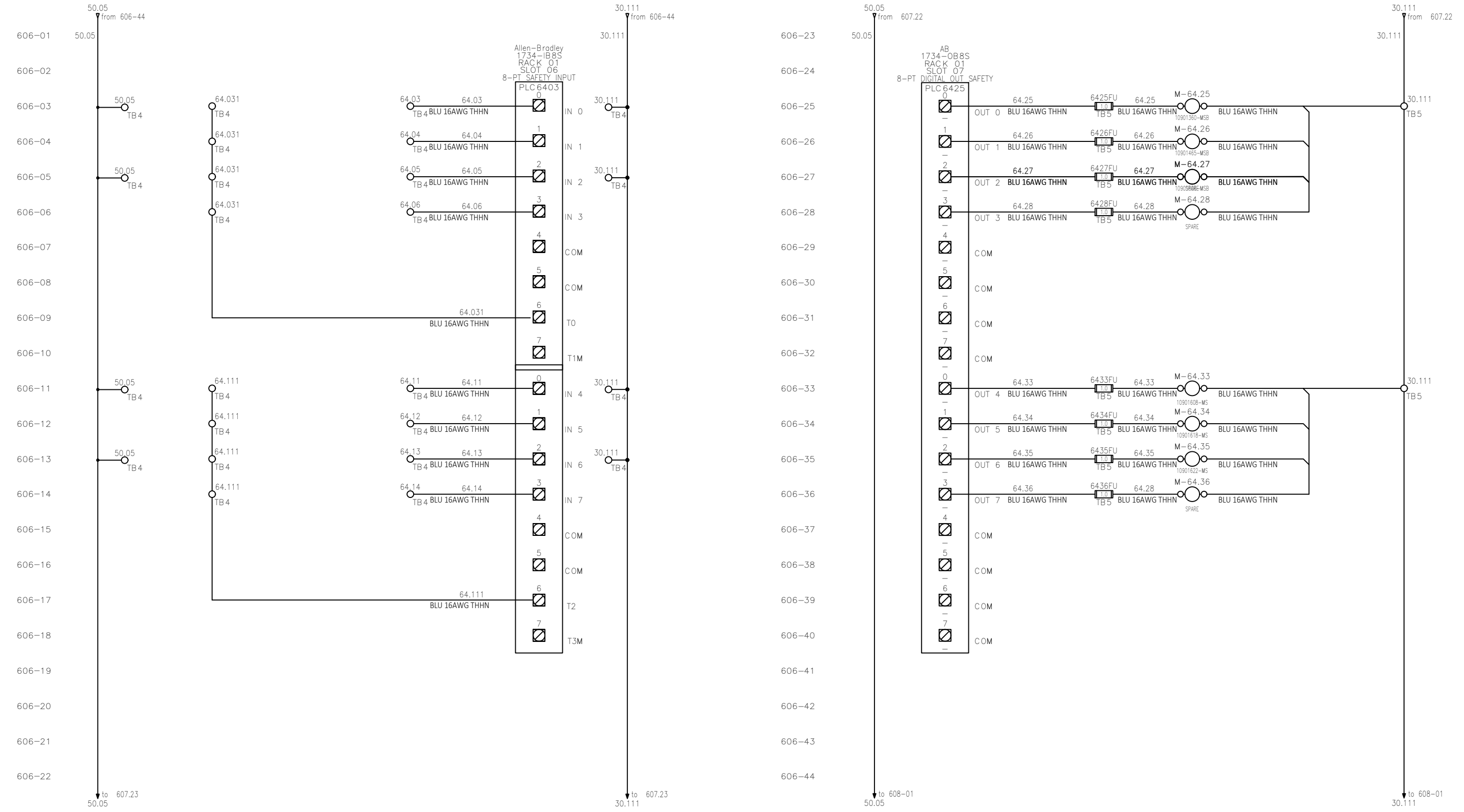
NOTE#1: LAPP OLFLEX P/N: 602004 CABLE TO BE USED FOR MAKING CONNECTION FROM PANEL TO E-STOP PULLCORD. OTHER SIMILAR TYPES OF CABLES CAN BE USED. (BLK1 - 24VDC / BLK2 - 0VDC / BLK3 - SIGNAL)
NOTE#2: INTERLOCKING WIRES MUST BE ORANGE (ORG) IN COLOR PER IEC 60364-5-52 SPECIFICATIONS
NOTE#3: LAPP OLFLEX P/N: 602005 CABLE TO BE USED FOR MAKING CONNECTION FROM PANEL TO E-STOP PUSHBUTTON. OTHER SIMILAR TYPES OF CABLES CAN BE USED. (BLK1 - 24VDC {NC CONN}/ BLK2 - 0VDC / BLK3 - SIGNAL / BLK4 - 24VDC {NO CONN})

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E-605
STATUS:		AS BUILT
DRAWN :	USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)
DATE :	07/06/2023	1090-MSP01-24VDC DIGITAL SAFETY INPUTS
SCALE :	NTS	NUMBER : 29332-431-11090
		SHT: 605 EN REV: C01

1090-MSP01 - 24VDC DIGITAL SAFETY INPUTS & OUTPUTS

FILENAME: 29332-431-11090-607.DWG
 PLOTTED BY: USDCHEER ON: 27/09/2024 15:12
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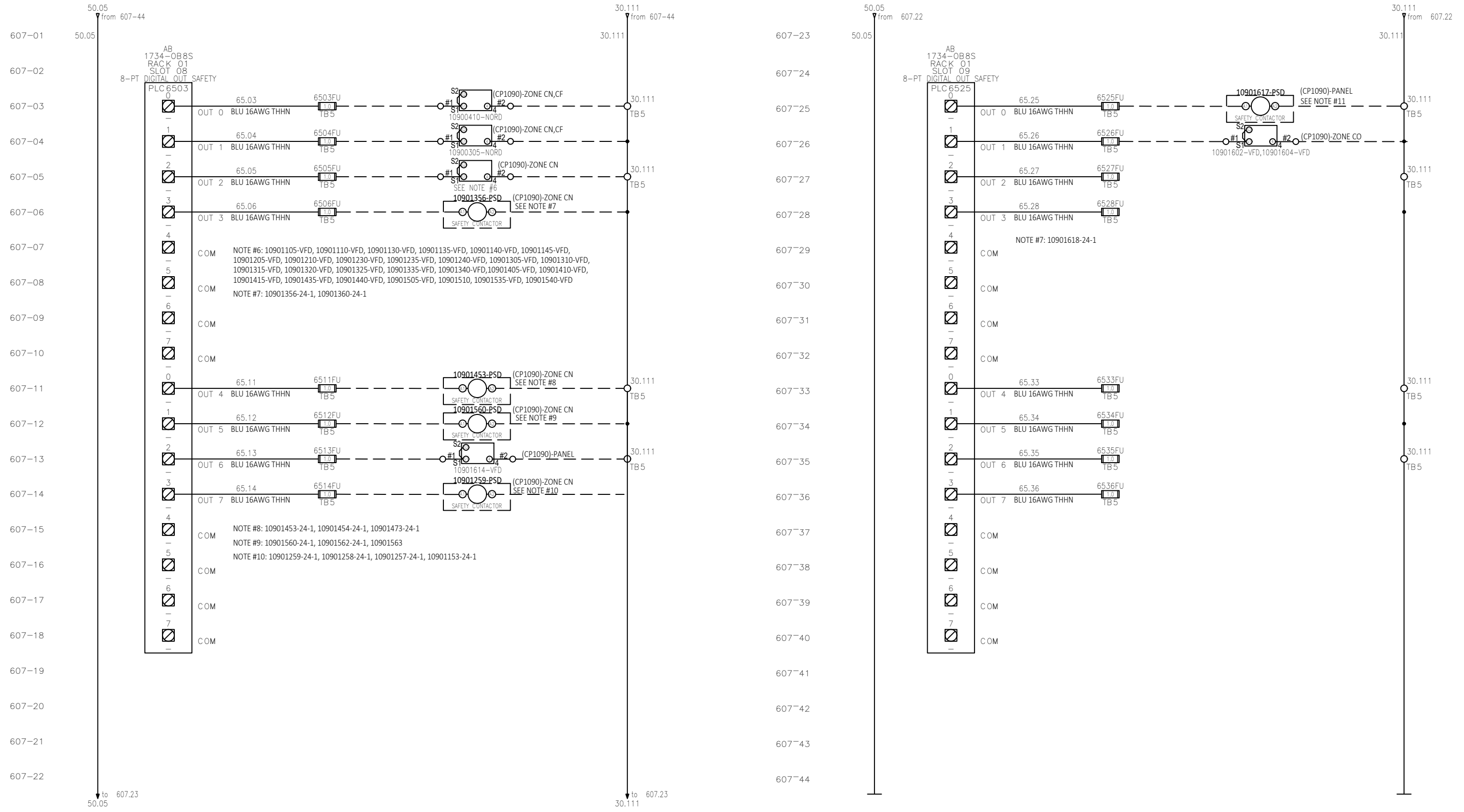
NOTE#1: LAPP OLFLEX P/N: 602004 CABLE TO BE USED FOR MAKING CONNECTION FROM PANEL TO E-STOP PULLCORD. OTHER SIMILAR TYPES OF CABLES CAN BE USED. (BLK1 - 24VDC / BLK2 - 0VDC / BLK3 - SIGNAL)
NOTE#2: INTERLOCKING WIRES MUST BE ORANGE (ORG) IN COLOR PER SPECIFICATIONS
NOTE#3: LAPP OLFLEX P/N: 602005 CABLE TO BE USED FOR MAKING CONNECTION FROM PANEL TO E-STOP PUSHBUTTON. OTHER SIMILAR TYPES OF CABLES CAN BE USED. (BLK1 - 24VDC {NC CONN}/ BLK2 - 0VDC / BLK3 - SIGNAL / BLK4 - 24VDC {NO CONN})

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHEER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :	
LOCATION :	
CUSTOMER DRAWING #: DAB2-E- - 606	
STATUS:	
AS BUILT	
DRAWN : USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)
DATE : 07/06/2023	1090-MSP01-24VDC DIGITAL SAFETY INPUTS & OUTPUTS
SCALE : NTS	NUMBER : 29332-431-11090
	SHT: 606 EN
	REV: C01

1090-MSP01 - 24VDC DIGITAL SAFETY OUTPUTS

FILENAME: 29332-431-11090-608.DWG
 PLOTTED BY: USDCHEM ON: 27/09/2024 15:13
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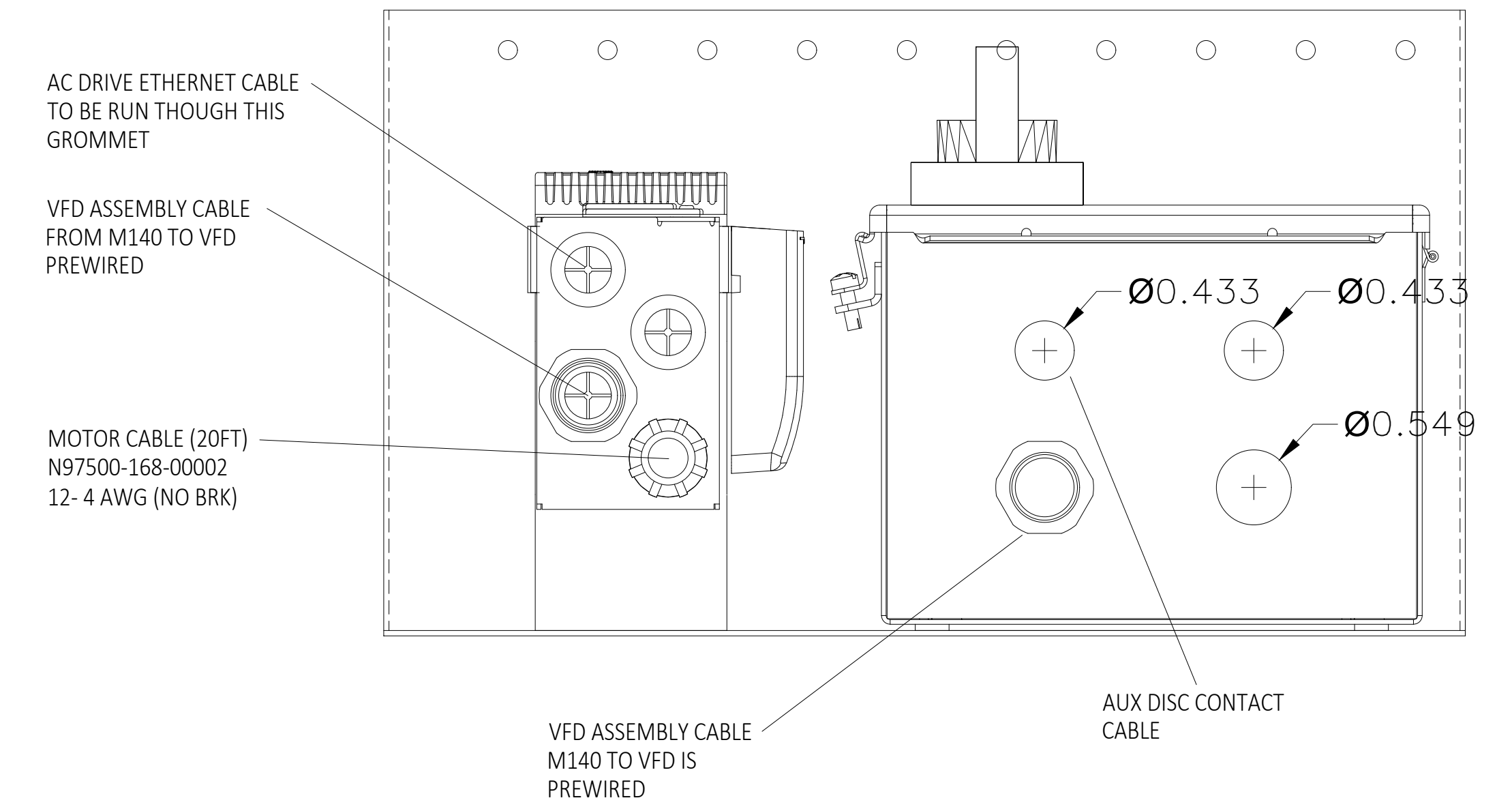
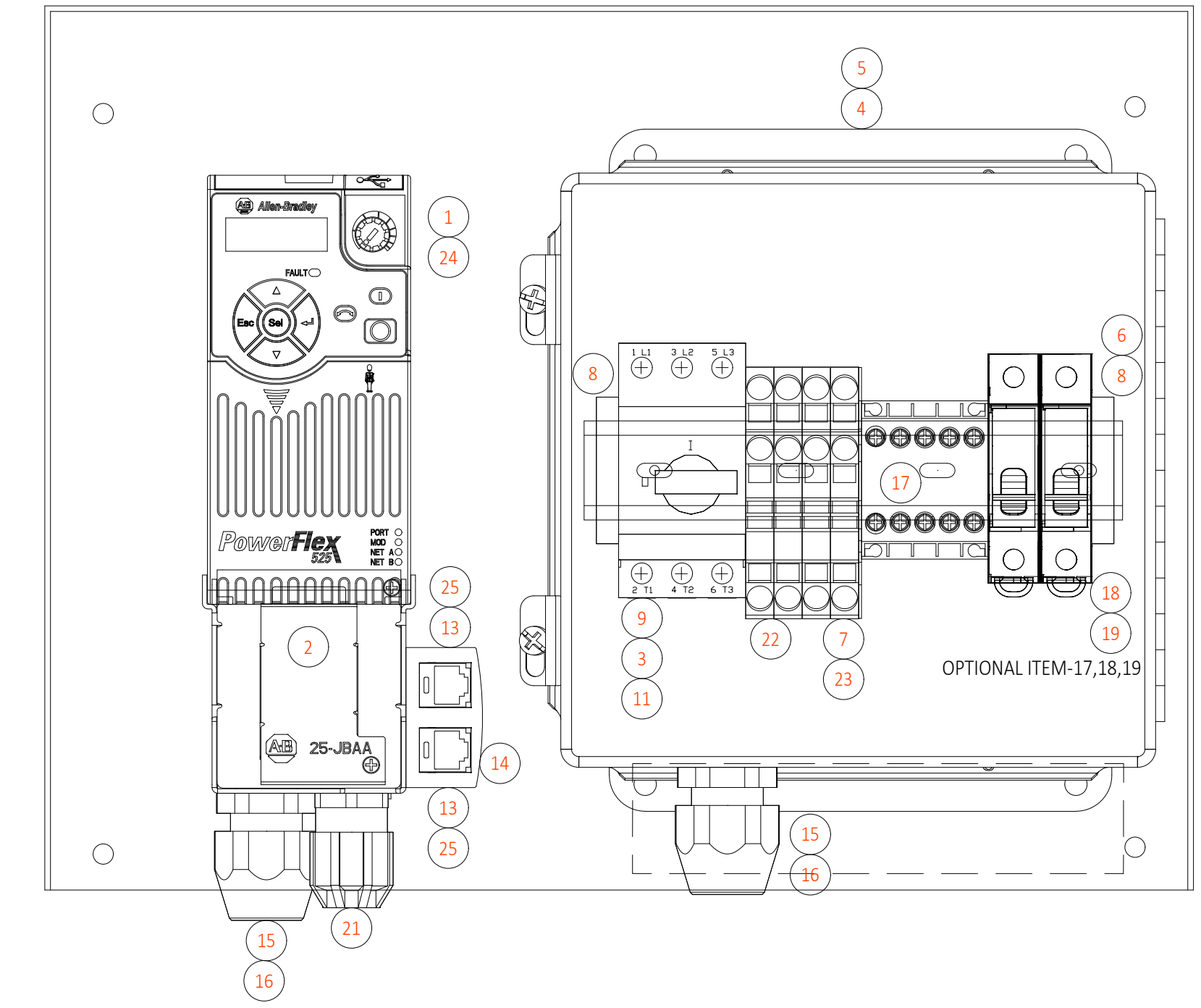
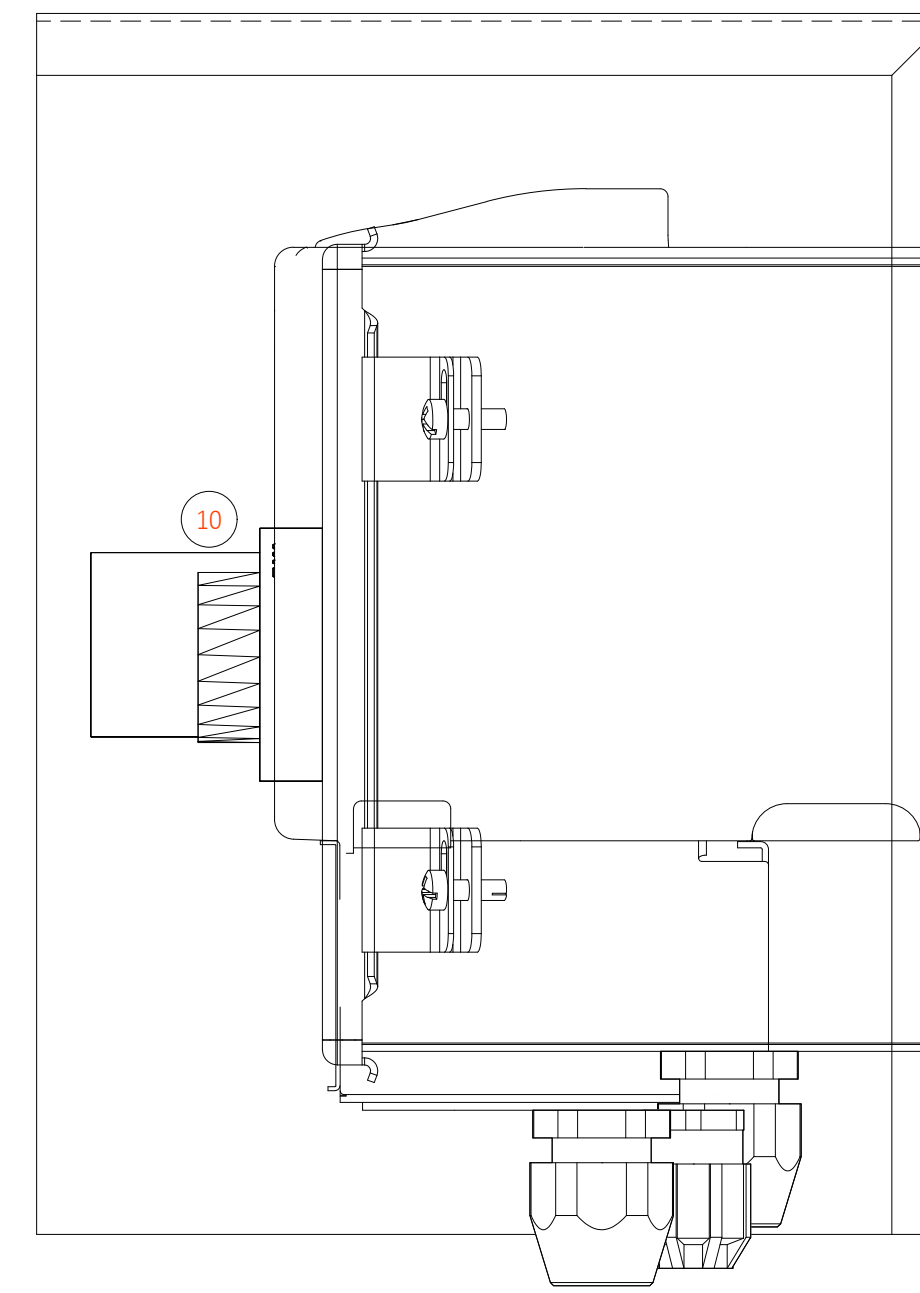
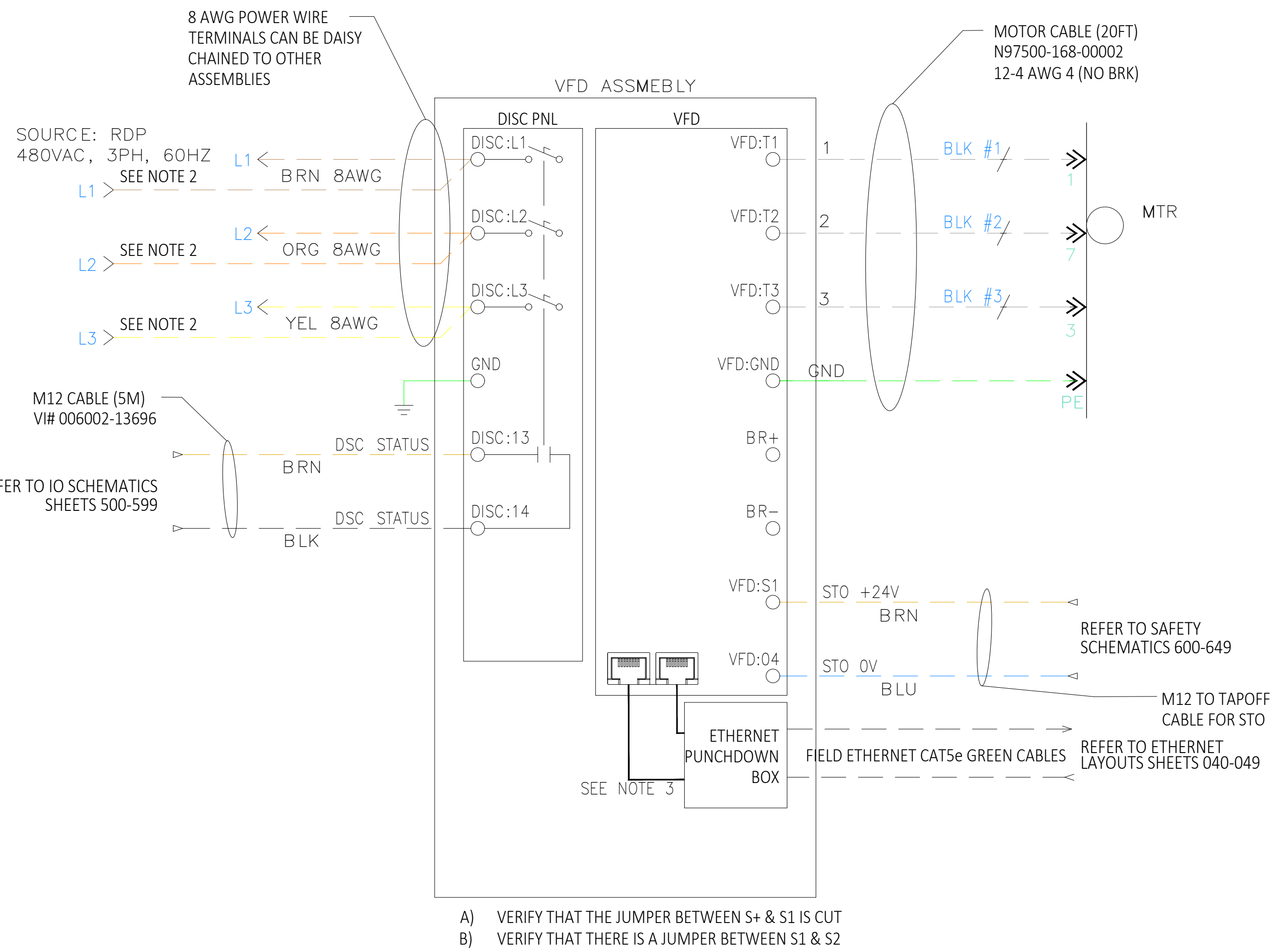


NOTE#1: YELLOW ASI FLAT CABLE (#14 OR #16 AWG) TO BE USED TO FOR MAKING CONNECTION FROM PANEL TO VFD, 24V PWS OR LMS. OTHER SIMILAR TYPES OF CABLES CAN BE USED (BRN - 24VDC / BLU - 0VDC)
 NOTE#2: INTERLOCKING WIRES MUST BE ORANGE (ORG) IN COLOR PER SPECIFICATIONS

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHEM	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING #:		DAB2-E- 607
STATUS:		AS BUILT
DRAWN :	USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)
DATE :	07/06/2023	TITLE : 1090-MSP01-24VDC DIGITAL SAFETY OUTPUTS
SCALE :	NTS	NUMBER : 29332-431-11090
		SHT: 607
		EN
		REV: C01

VFD ASSEMBLY WITHOUT BRAKE TYPICAL



ITEM	QTY	VI NUMBER	MFG	CATALOG	DESCRIPTION	SPARE
1	1	N91900-91004	AB	25B-D6P0M104	POWERFLEX 525 3 HP VFD WITH ETHERNET I/P, FRAME A	YES
2	1	N91900-91025	AB	25-JBAA	NEMA/UL TYPE 1 KIT - FRAME A	NO
3	1	N90221-01001	AB	140M-C-AFA10	FRONT MOUNTED AUX CONTACT BLOCK - 1 N.O.	NO
4	1	N95201-31014	HOFFMAN	A8086CH	ENCLOSURE TYPE 12 - 8 x 8 x 6	NO
5	1	N95201-31015	HOFFMAN	A8P8	SUB-PANEL	NO
6	1	N93410-00011	AB	199-DR1	DIN-RAIL	NO
7	1	009000-06581	WAGO	2010-1307	GROUND TERMINAL BLOCK	NO
8	2	N93301-13001	AB	1492-EAJ35	END ANCHOR	NO
9	1	N90221-50000	AB	140M-C2E-C10	MOTOR STARTER PROTECTOR - 6.3A - 10 A, FRAME C	YES
10	1	N90221-01005	AB	140M-C-DRY66	DOOR COUPLING HANDLE, RED/YELLOW	NO
11	1	N90221-01006	AB	140M-C-DS	DOOR COUPLING SHAFT	NO
12	1	N15057-001-00001	VANDERLANDE	N15057-001-00001	VFD BRACKET ASSEMBLY, FRAME A & B	NO
13	1	N93302-50009	PANDUIT	CBX2IG-AY	SURFACE MOUNT BOX, MINI-COM, TWO-MODULES, GRAY	NO
14	SL	N93602-69999	CABLES - TO -GO	25515	CAT5e ETHERNET NON SHLD. PATCH CABLE, GREEN 2'	NO
15	SL	000000-06335	T&B	TNBLT50P	1/2" LIQUID TIGHT - BULLET FITTING	NO
16	SL	000000-06337	T&B	TNBEFC050	1/2" LIQUID TIGHT - FLEX	NO
17	SL	006011-01814	AB	100-K05DJ10	CONTACTOR, 24DC COIL WITH DIODE 3 N.O. 1 N.C.	YES
18	SL	N96000-40601	AB	1492-FB2C30-L	FUSE HOLDER, 30AMP, 2POLE	NO
19	SL	N96000-11001	BUSSMANN	LP-CC-1	1AMP CLASS CC FUSES	YES
20	SL	N92101-30020	POWEROHM	PFCR150R300W	BRAKING RESISTOR - 150 OHMS, 300 WATTS	YES
21	SL	N93800-48003	T&B	TNB2920NM	1/2" NPT CABLE GLAND - .125 - .375 - RESISTOR	NO
22	3	009000-06579	WAGO	2010-1301	FEEDTHROUGH TERMINAL BLOCK	NO
23	1	009000-06580	WAGO	2010-1391	TERMINAL BLOCK END PLATE	NO
24	SL	N91900-00001	AB	25-COMM-E2P	DUAL-PORT NETWORK CARD	YES
25	SL	N93302-50005	PANDUIT	CJ688TGGR	JACK MODULE RJ45 CAT6 8P TX6 PLUS UNSHIELDED GREEN	NO

****NOTE : STANDARD HP RATING**

VI#	N97500-090-00013	VFD 1HP	BRAKE
VI#	N97500-091-00012	VFD 2HP	BRAKE
VI#	N97500-092-00012	VFD 3HP	BRAKE
VI#	N97500-093-00012	VFD 5HP	BRAKE
VI#	N97500-094-00012	VFD 7.5HP	BRAKE
VI#	N97500-095-00012	VFD 10HP	BRAKE
VI#	N97500-096-00012	VFD 15HP	BRAKE
VI#	N97500-097-00012	VFD 20HP	BRAKE
VI#	N97500-098-00012	VFD 30HP	BRAKE

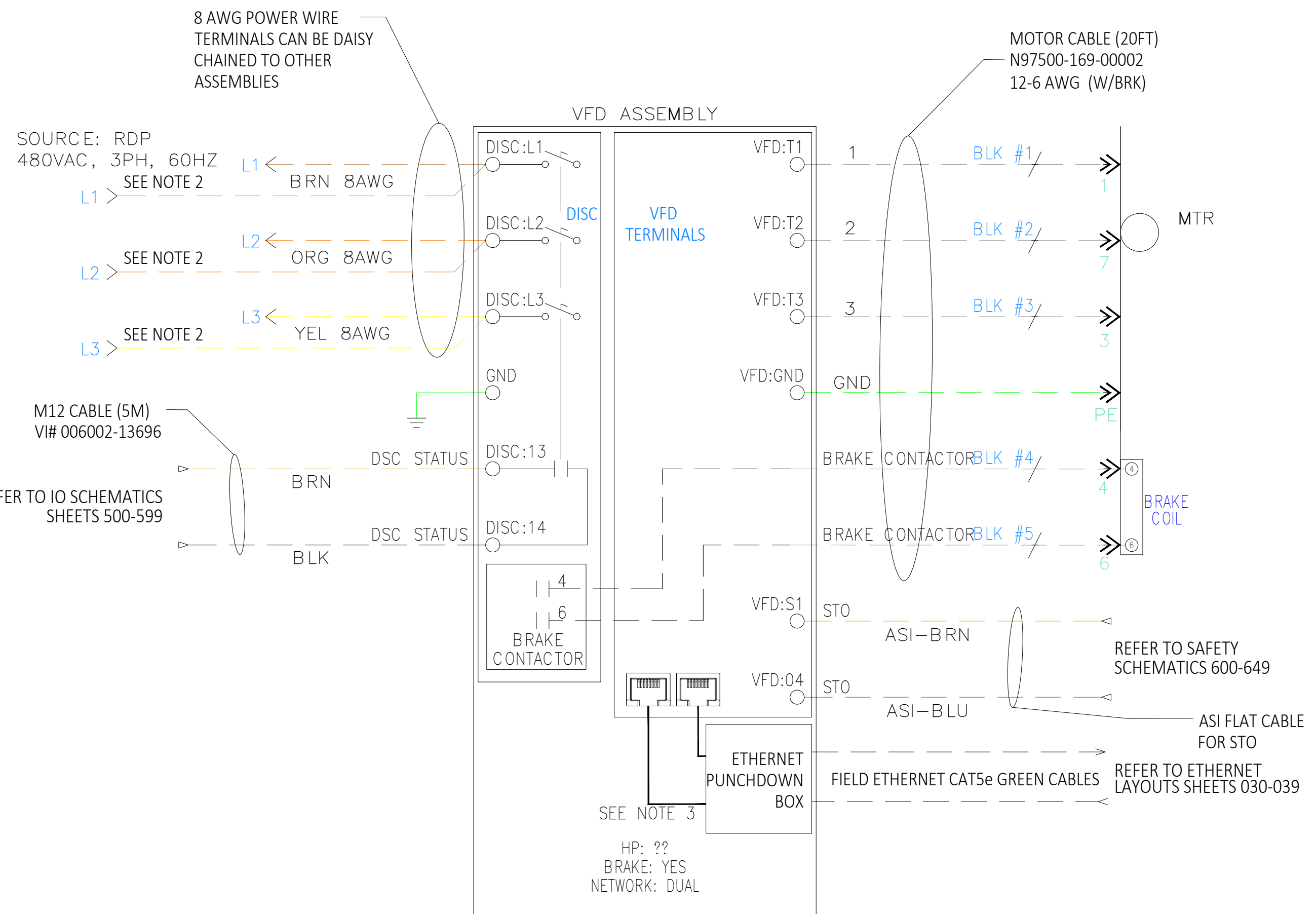
OPTIONAL ONLY USED ON BRAKE MOTOR
 OPTIONAL ONLY USED ON BRAKE MOTOR
 OPTIONAL ONLY USED ON BRAKE MOTOR
 SEE NOTE 1

- NOTES:
- NO BRAKE RESISTOR USED
 - ALL 480VAC POWER WIRING TO BE L1=BROWN, L2=ORANGE, L3=YELLOW, GND=GREEN. WIRE NUMBERS SHALL BE AT BOTH ENDS OF THE WIRES FOLLOWING THE INFO FROM THE SINGLE LINE DRAWINGS.
 2.1. EX: L1="AREA-RUNG.SHT-L1", L1="4103-200.08-L1"
 - ITEM 14, PATCH CABLES

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
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CUSTOMER :	
LOCATION :	
CUSTOMER DRAWING #:	DAB2-E-901
STATUS:	AS BUILT
DRAWN :	USTWILM
DATE :	07/06/2023
SCALE :	NTS
TITLE :	CP1090 - DOCK SORTER (SPO) VFD ASSEMBLY WITHOUT BRAKE TYPICAL
NUMBER :	29332-431-11090
SHT:	901
EN	
REV.:	C01

VFD ASSEMBLY WITH BRAKE MOTOR TYPICAL



- A) VERIFY THAT A JUMPER EXISTS BETWEEN VFD TERMINALS 4 & 19
- B) VERIFY THAT THE JUMPER BETWEEN S+ & S1 IS CUT
- C) VERIFY THAT THERE IS A JUMPER BETWEEN S1 & S2

ITEM	QTY	VI NUMBER	MFG	CATALOG	DESCRIPTION	SPARE
1	1	N91900-91004	AB	25B-D6P0M104	POWERFLEX 525 3 HP VFD WITH ETHERNET I/P, FRAME A	YES
2	1	N91900-91025	AB	25-JBAA	NEMA/UL TYPE 1 KIT - FRAME A	NO
3	1	N90221-01001	AB	140M-C-AFA10	FRONT MOUNTED AUX CONTACT BLOCK - 1 N.O.	NO
4	1	N95201-31014	HOFFMAN	A8086CH	ENCLOSURE TYPE 12 - 8 x 8 x 6	NO
5	1	N95201-31015	HOFFMAN	A8P8	SUB-PANEL	NO
6	1	N93410-00011	AB	199-DR1	DIN-RAIL	NO
7	1	009000-06581	WAGO	2010-1307	GROUND TERMINAL BLOCK	NO
8	2	N93301-13001	AB	1492-EAJ35	END ANCHOR	NO
9	1	N90221-50000	AB	140M-C2E-C10	MOTOR STARTER PROTECTOR - 6.3A - 10 A, FRAME C	YES
10	1	N90221-01005	AB	140M-C-DRY66	DOOR COUPLING HANDLE, RED/YELLOW	NO
11	1	N90221-01006	AB	140M-C-DS	DOOR COUPLING SHAFT	NO
12	1	N15057-001-00001	VANDERLANDE	N15057-001-00001	VFD BRACKET ASSEMBLY, FRAME A & B	NO
13	1	N93302-50009	PANDUIT	CBX2IG-AY	SURFACE MOUNT BOX, MINI-COM, TWO-MODULES, GRAY	NO
14	SL	N93602-69999	CABLES -TO -GO	25515	CAT5e ETHERNET NON SHLD.PATCH CABLE, GREEN 2'	NO
15	SL	000000-06335	T&B	TNBLT50P	1/2" LIQUID TIGHT - BULLET FITTING	NO
16	SL	000000-06337	T&B	TNBEFC050	1/2" LIQUID TIGHT - FLEX	NO
17	SL	006011-01814	AB	100-K05D110	CONTACTOR, 24DC COIL WITH DIODE 3 N.O. 1 N.C.	YES
18	SL	N96000-40601	AB	1492-FB2C30-L	FUSE HOLDER,30AMP,2POLE	NO
19	SL	N96000-11001	BUSSMANN	LP-CC-1	1AMP CLASS CC FUSES	YES
20	SL	N92101-30020	POWEROHM	PFRC150R300W	BRAKING RESISTOR - 150 OHMS, 300 WATTS	YES
21	SL	N93800-48003	T&B	TNB2920NM	1/2" NPT CABLE GLAND - .125 - .375 - RESISTOR	NO
22	3	009000-06579	WAGO	2010-1301	FEEDTHROUGH TERMINAL BLOCK	NO
23	1	009000-06580	WAGO	2010-1391	TERMINAL BLOCK END PLATE	NO
24	SL	N91900-00001	AB	25-COMM-E2P	DUAL-PORT NETWORK CARD	YES
25	SL	N93302-50005	PANDUIT	CJ688TGGR	JACK MODULE RJ45 CAT6 8P TX6 PLUS UNSHIELDED GREEN	NO

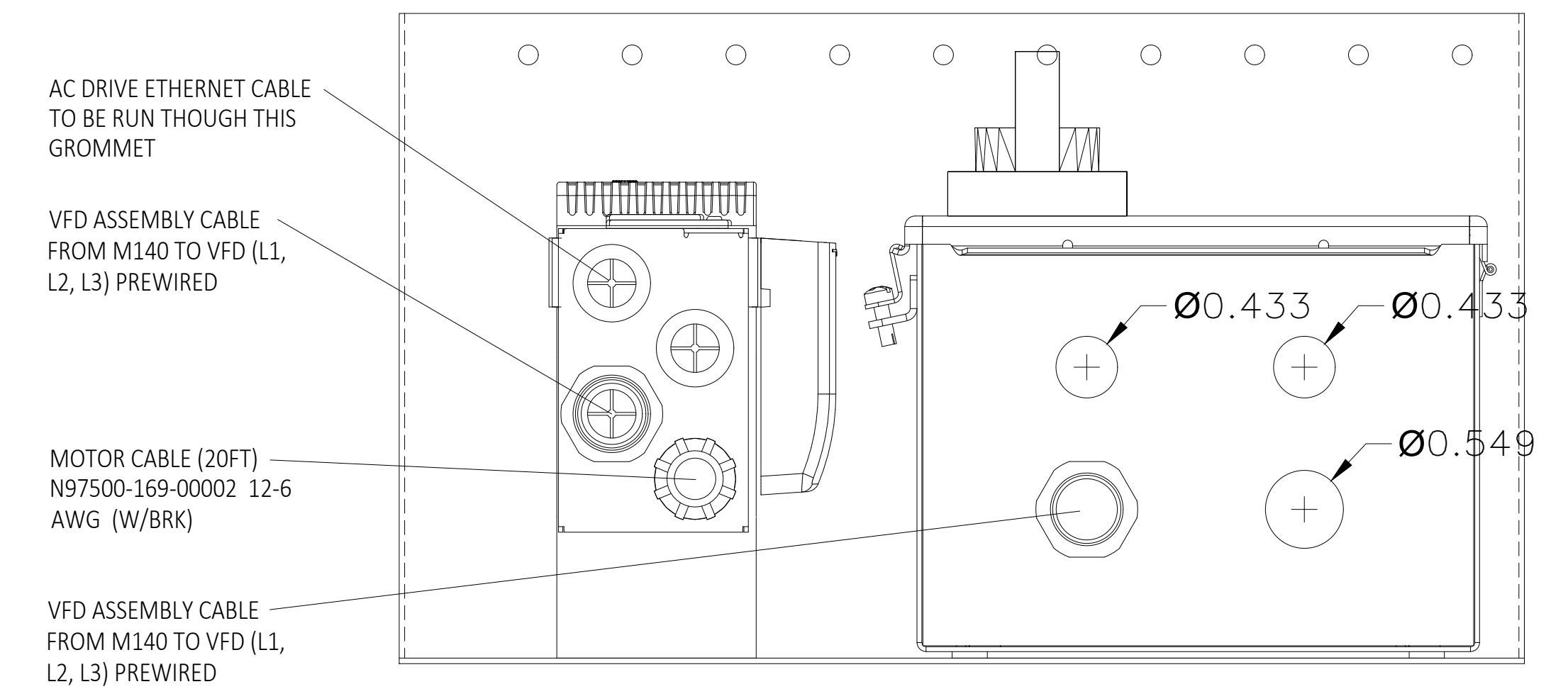
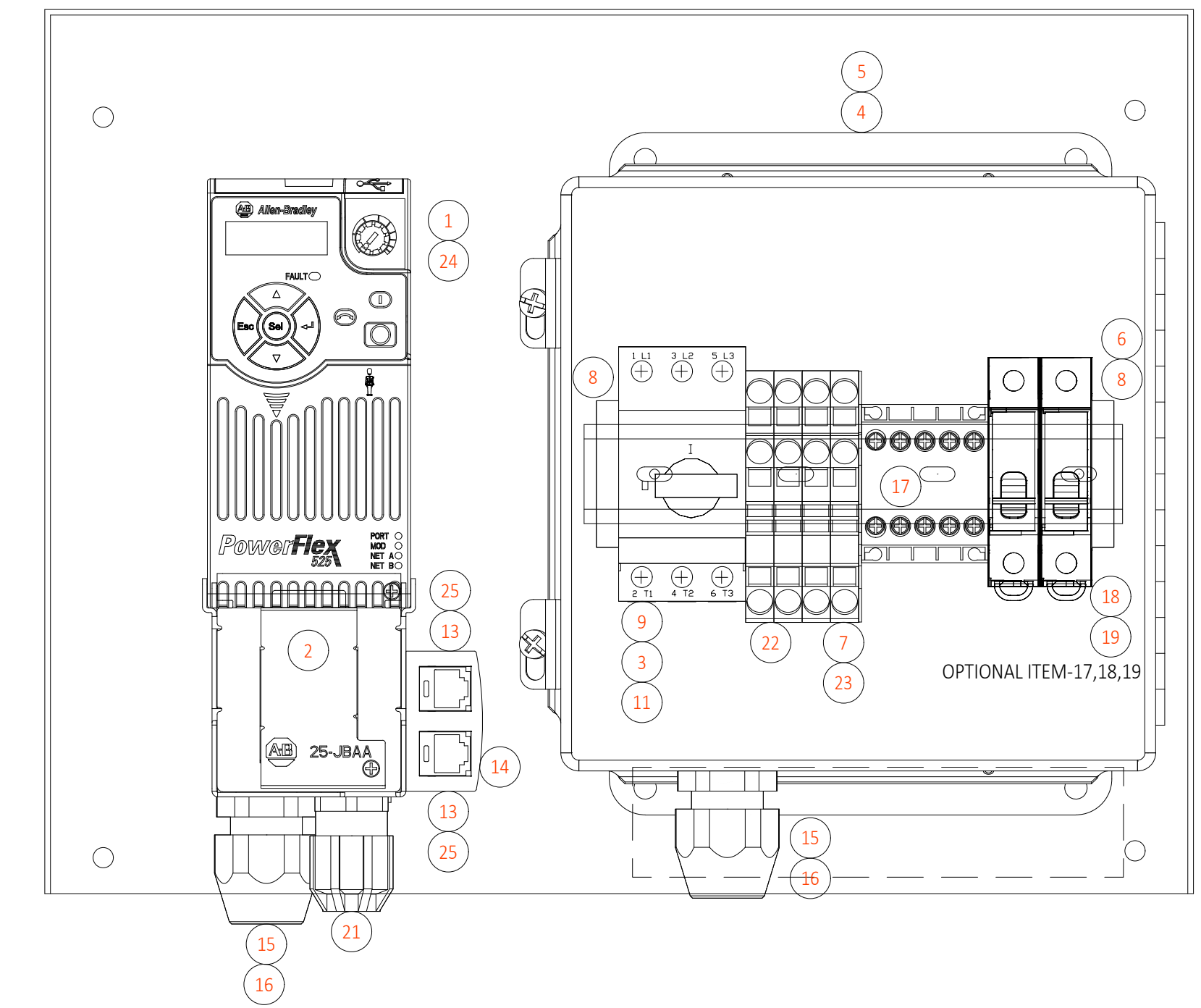
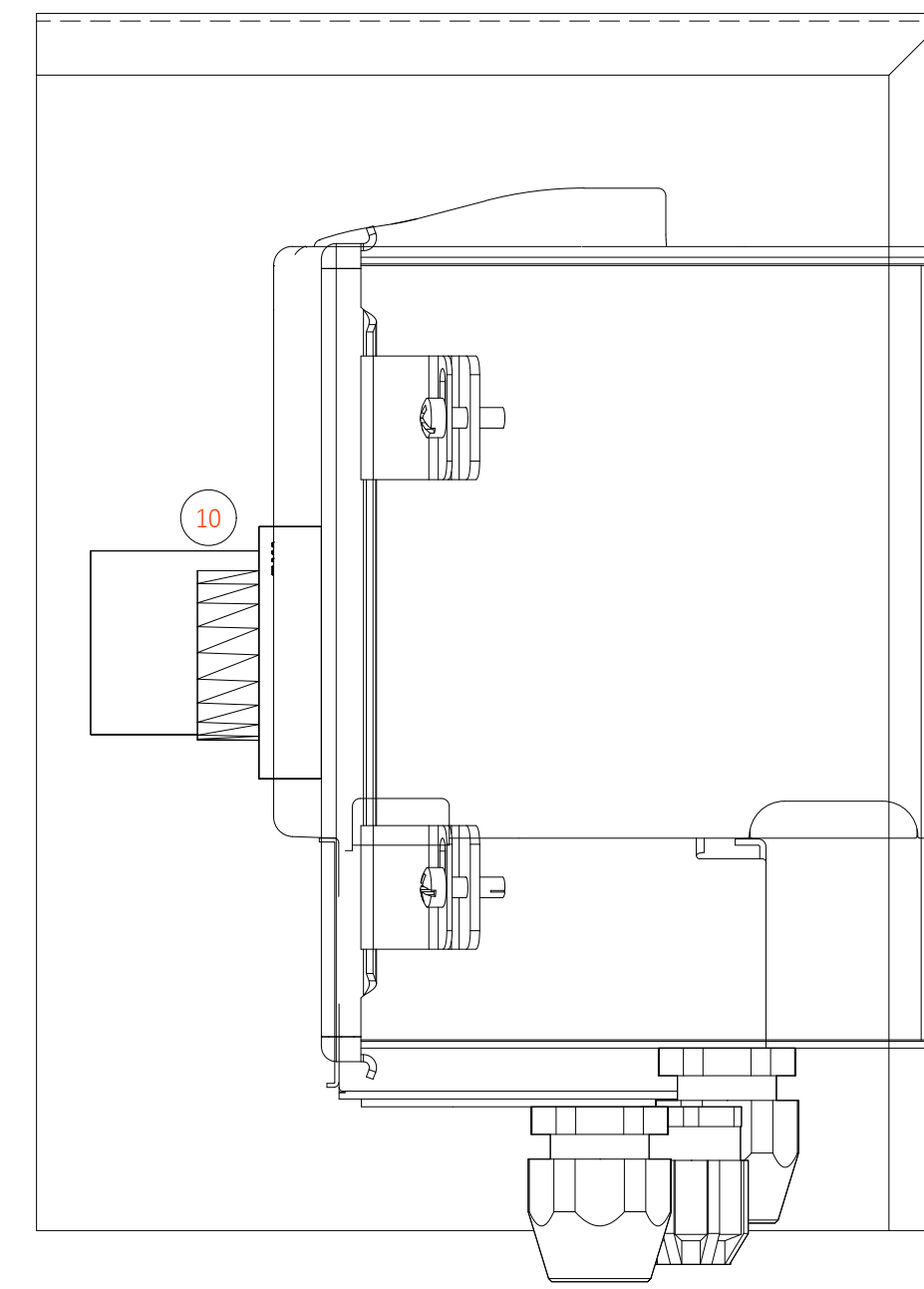
**NOTE : STANDARD HP RATING

VI#	N97500-090-00013	VFD 1HP	BRAKE
VI#	N97500-091-00012	VFD 2HP	BRAKE
VI#	N97500-092-00012	VFD 3HP	BRAKE
VI#	N97500-093-00012	VFD 5HP	BRAKE
VI#	N97500-094-00012	VFD 7.5HP	BRAKE
VI#	N97500-095-00012	VFD 10HP	BRAKE
VI#	N97500-096-00012	VFD 15HP	BRAKE
VI#	N97500-097-00012	VFD 20HP	BRAKE
VI#	N97500-098-00012	VFD 30HP	BRAKE

- OPTIONAL ONLY USED ON BRAKE MOTOR
- OPTIONAL ONLY USED ON BRAKE MOTOR
- OPTIONAL ONLY USED ON BRAKE MOTOR
- SEE NOTE 1

NOTES:

1. NO BRAKE RESISTOR USED
2. ALL 480VAC POWER WIRING TO BE L1=BROWN, L2=ORANGE, L3=YELLOW, GND=GREEN. WIRE NUMBERS SHALL BE AT BOTH ENDS OF THE WIRES FOLLOWING THE INFO FROM THE SINGLE LINE DRAWINGS.
 - 2.1. EX: L1="AREA-RUNG.SHT-L1", L1="4103-200.08-L1"
3. ITEM 14, PATCH CABLES

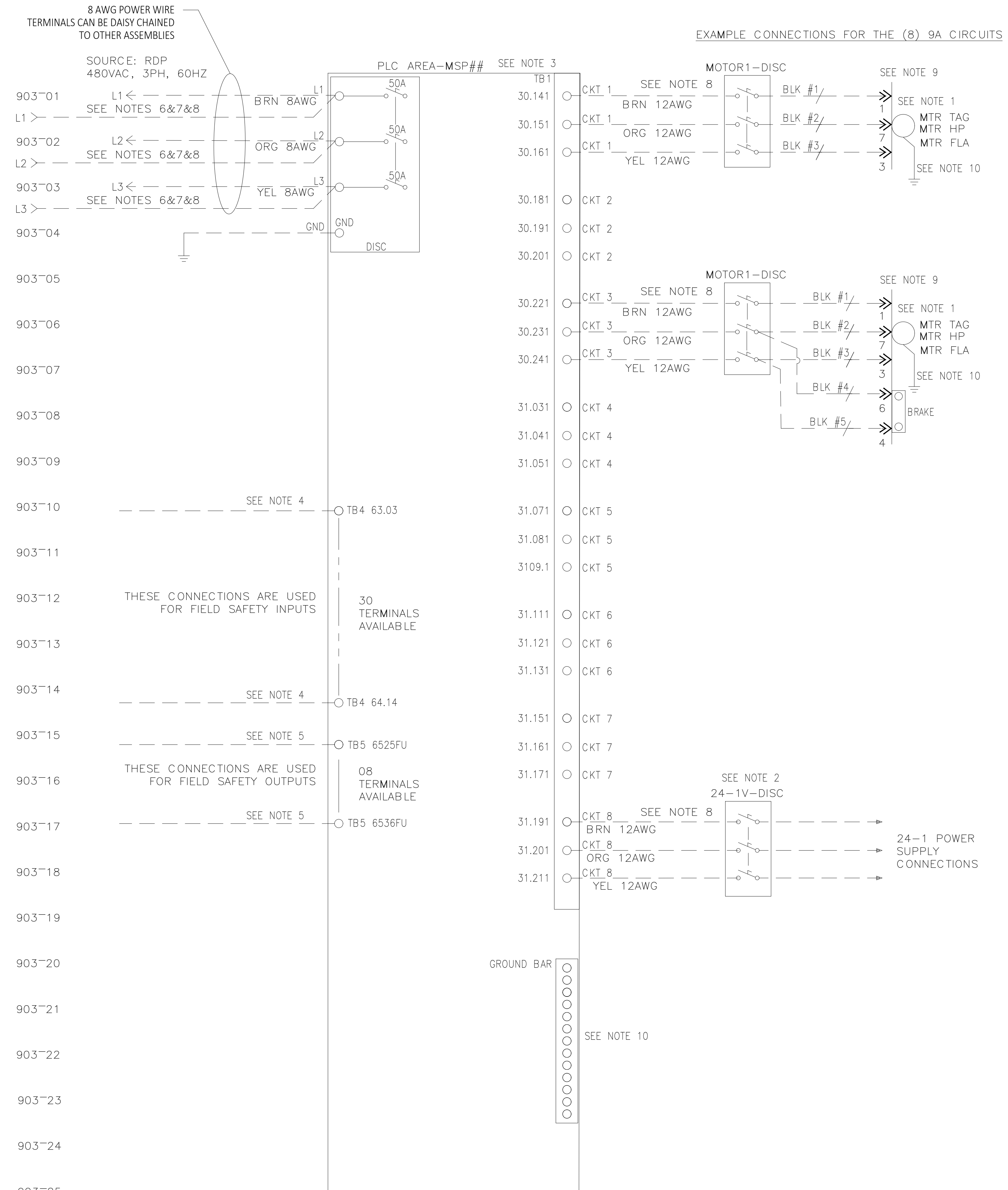


REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :	
LOCATION :	
CUSTOMER DRAWING #:	DAB2-E- 902
STATUS:	AS BUILT
DRAWN :	USTWILM
DATE :	07/06/2023
SCALE :	NTS
NUMBER :	29332-431-11090
SHT:	902
EN	
REV.:	C01

FILENAME: 29332-431-11090-903.DWG
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MOTOR STARTER PANEL (MSP) TYPICAL
 VI#N97500-165

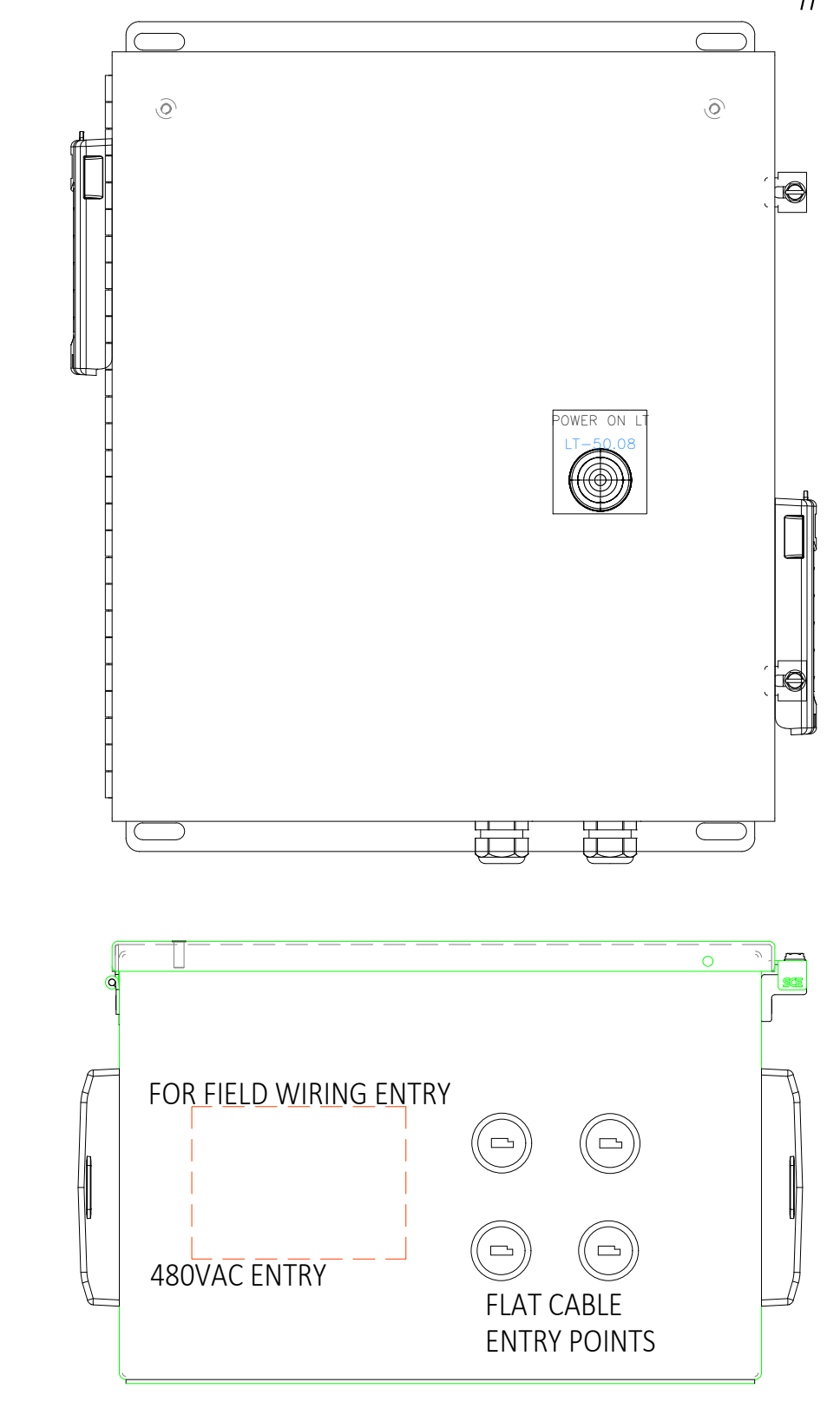
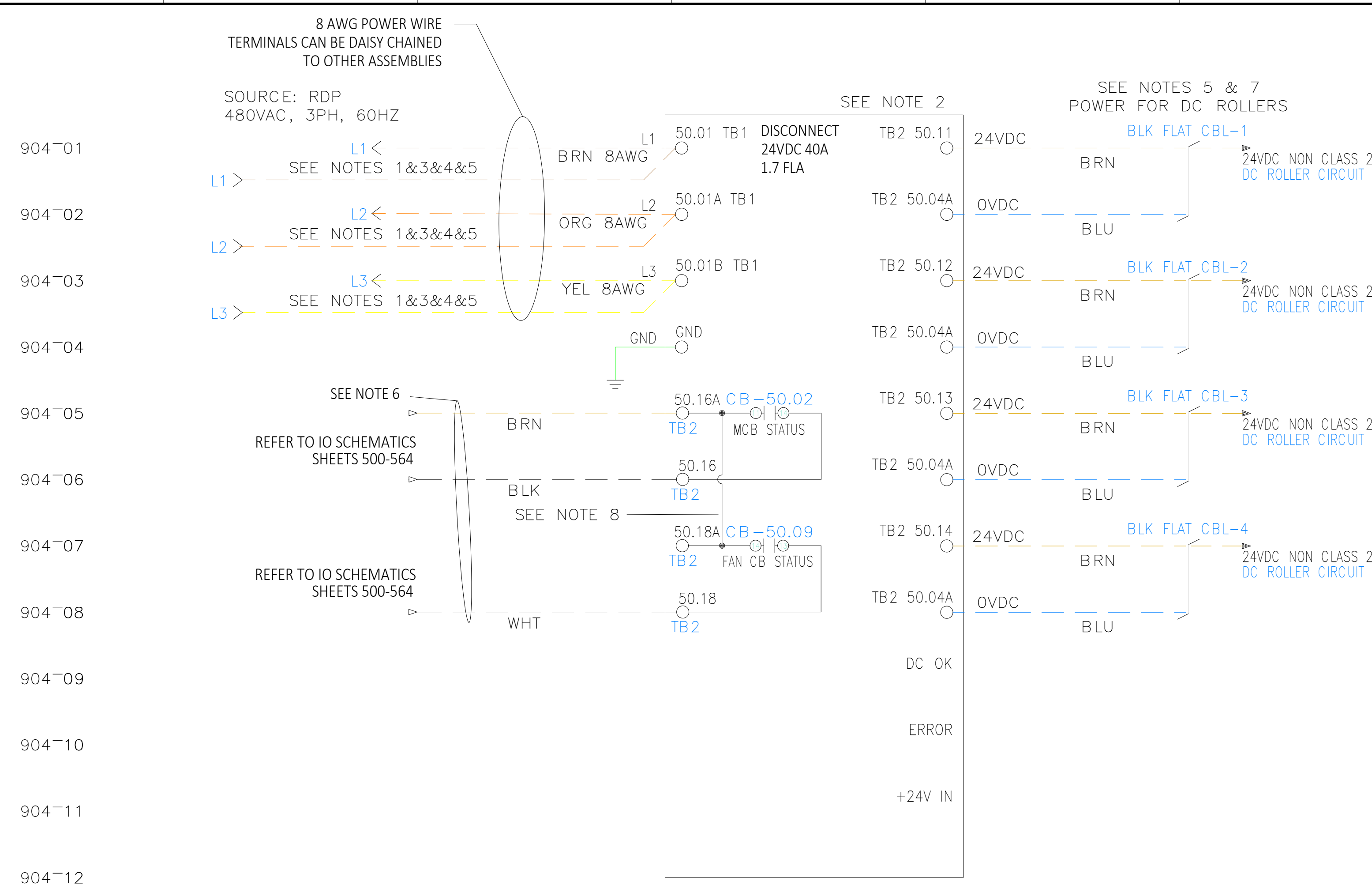


- MAX OF (8) 480VAC 9A CIRCUITS AVAILABLE FOR MOTORS (MAX 5HP) OR 24-1 POWER SUPPLIES
 - MAX OF (5) 24-1 POWER SUPPLIES CAN BE DAISY CHAINED TO EACH CIRCUIT. THE DISCONNECT IS TAGGED WITH THE SAME AREA-ZONE-SECTION (AAAAZZSS) AS THE FIRST 24-1 IN THE CIRCUIT
 - FOR ADDITIONAL DETAIL SEE THE PRODUCT DRAWING N97500-165-00001.
 - INPUTS USED FOR EMERGENCY STOP FIELD SAFETY DEVICES.
 - OUTPUTS USED FOR SAFETY VFD AND CONTACTOR CIRCUITS
 *REFERENCE THE INSTALL SAFETY DWGS SHTS 600-649
- INSTALLATION NOTES:
- WIRE SIZE PROVIDED AS A MINIMUM REQUIRED. VOLTAGE DROP AND DE-RATING CALCS SHALL BE COMPLETED BY THE INSTALLERS.
 - ALL 480VAC POWER WIRING TO BE L1=BROWN, L2=ORANGE, L3=YELLOW, GND=GREEN.
 - WIRE NUMBERS SHALL BE AT BOTH ENDS OF THE WIRES FOLLOWING THE INFO FROM THE SINGLE LINE DRAWINGS.
 8.1. EX: L1="AREA-RUNG.SHT-L1", L1="4103-200.08-L1"
 - MOTOR CABLES USE PART #S:
 9.1. N97500-168-00002 W0/BRAKE
 9.2. N97500-169-00002 W/BRAKE
 - GROUND BAR TO BE USED FOR MOTOR GROUND CONNECTIONS

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHEM	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER :		
LOCATION :		
CUSTOMER DRAWING#:		DAB2-E - 903
STATUS:		AS BUILT
DRAWN :	USTWILM	TITLE : CP1090 - DOCK SORTER (SPO)
DATE :	07/06/2023	MOTOR STARTER PANEL (MSP) TYPICAL
SCALE :	NTS	
NUMBER :	29332-431-11090	SHT: 903
		EN
		REV: C01

24-1 (NON-CLASS 2) POWER SUPPLY PANEL TYPICAL
VI#N97500-174



- DESIGN NOTES:
- MAX OF (5) 24-1 POWER SUPPLIES CAN BE DAISY CHAINED ON AN MSP CIRCUIT.
 - EACH CIRCUIT HAS A FIELD-MOUNTED DISCONNECT UPSTREAM OF THE FIRST POWER SUPPLY
 - MAX OF (3) 24-1 POWER SUPPLIES CAN BE DAISY CHAINED ON AN LMS CIRCUIT (N97500-071-00005). IN THIS SITUATION THE LMS IS ALSO THE DISCONNECT.
 - FOR ADDITIONAL DETAIL SEE THE PRODUCT DRAWING N97500-174-00002.
- INSTALLATION NOTES:
- WIRE SIZE PROVIDED AS A MINIMUM REQUIRED. VOLTAGE DROP AND DE-RATING CALCS SHALL BE COMPLETED BY THE INSTALLERS.
 - ALL 480VAC POWER WIRING TO BE L1=BROWN, L2=ORANGE, L3=YELLOW, GND=GREEN.
 - WIRE NUMBERS SHALL BE AT BOTH ENDS OF THE WIRES FOLLOWING THE INFO FROM THE SINGLE LINE DRAWINGS.
 - EX: L1="AREA-RUNG.SHT-L1", L1="4103-200.08-L1"
 - USE AN M12 CABLE 4P (2M-5M) TO CONNECT TO MURR IO BLOCK
 - EACH DC ROLLER CIRCUIT CAN POWER A MAX OF 4 CONTROLLERS
 - MAY BE LESS DEPENDING ON DC MOTOR FLA (ie BELT ON ROLLER).
 - 16AWG JUMPER SHOULD BE INSTALLED BY PANEL SHOP BETWEEN TB2 50.16A TO 50.18A, BUT CONFIRM IN FIELD.

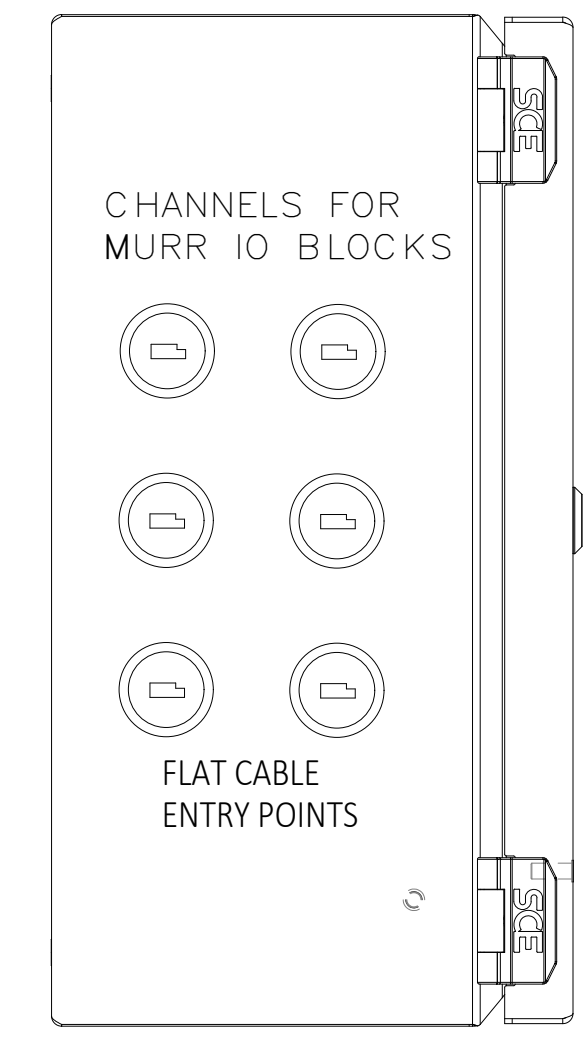
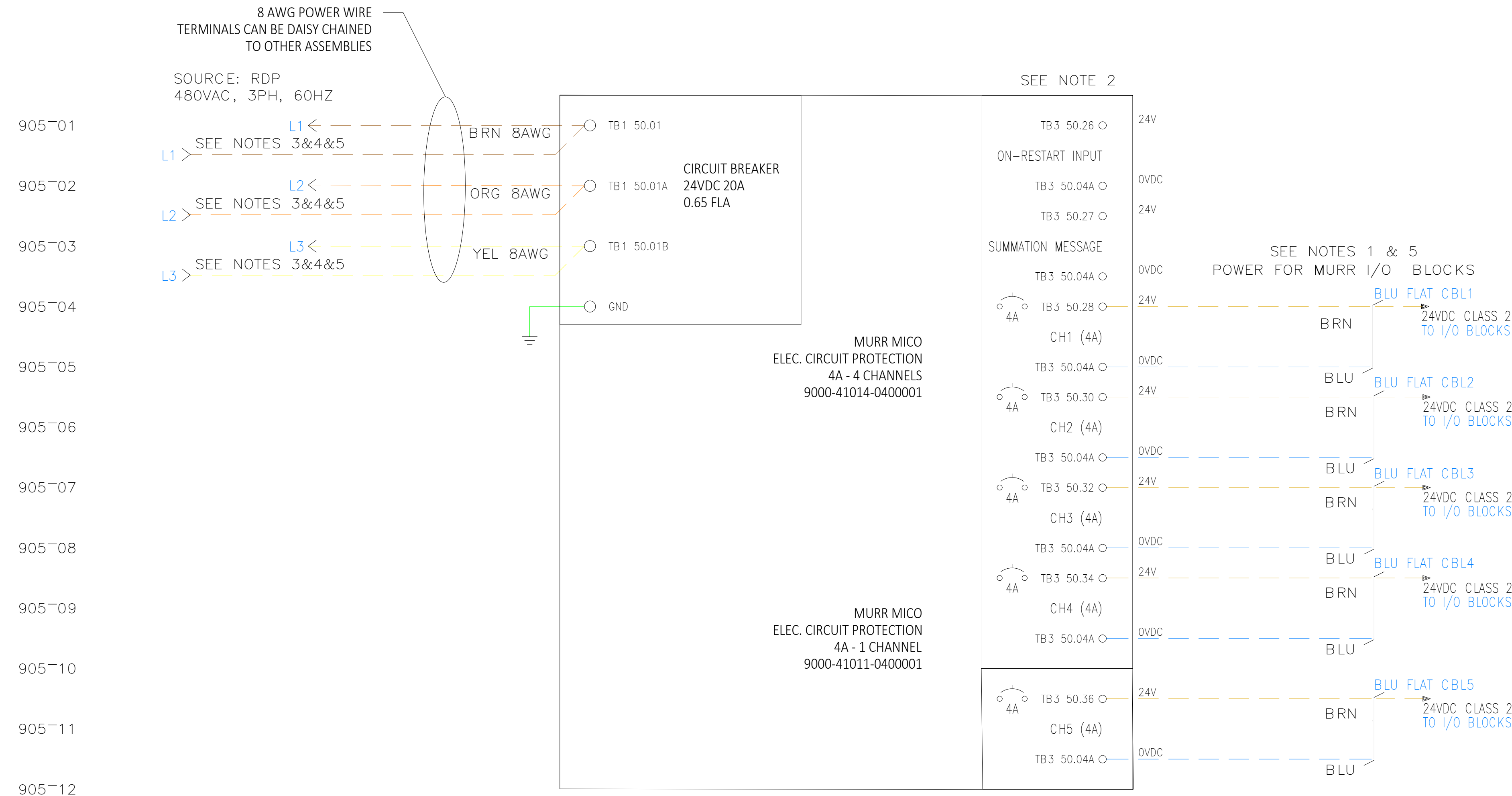
REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER	AS BUILT
LOCATION	CP1090 - DOCK SORTER (SPO)
CUSTOMER DRAWING #:	DAB2-E-904
STATUS:	AS BUILT
DRAWN:	USTWILM
DATE:	07/06/2023
SCALE:	NTS
NUMBER:	29332-431-11090
SHT:	904
EN	EN
REV.:	C01

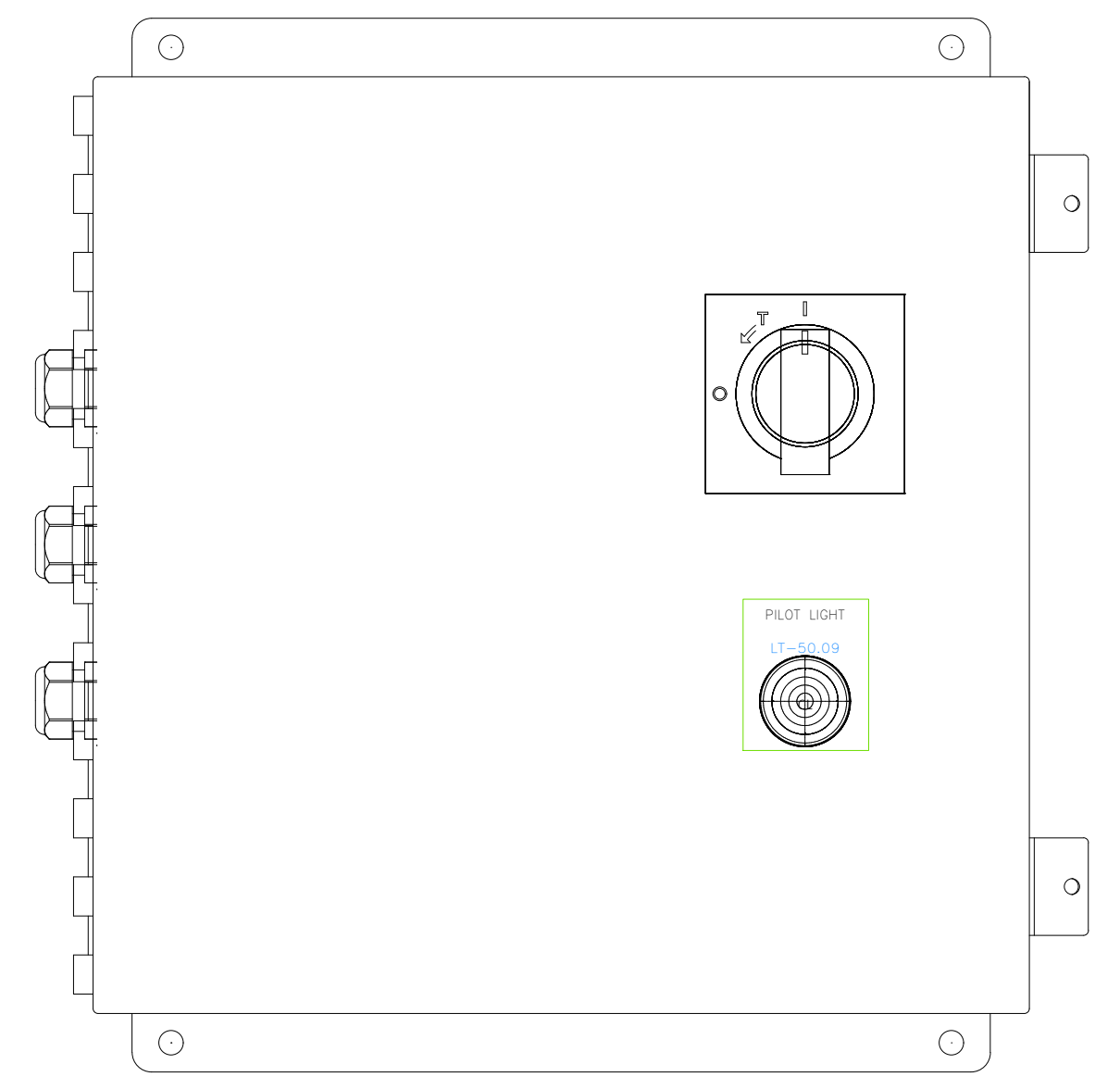
FILENAME: 29332-431-11090-904.DWG
 PLOTTED BY: USDCHER ON: 27/09/2024 10:14
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FILENAME: 29332-431-11090-905.DWG
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24-2 (CLASS 2) POWER SUPPLY TYPICAL
 VI#N97500-143



LEFT VIEW



FRONT VIEW

- DESIGN NOTES:
- MAX OF 4 MURR I/O BLOCKS PER CHANNEL.
 - FOR ADDITIONAL DETAIL SEE THE PRODUCT DRAWING N97500-143-00001.
- INSTALLATION NOTES:
- WIRE SIZE PROVIDED AS A MINIMUM REQUIRED. VOLTAGE DROP AND DE-RATING CALCS SHALL BE COMPLETED BY THE INSTALLERS.
 - ALL 480VAC POWER WIRING TO BE L1=BROWN, L2=ORANGE, L3=YELLOW, GND=GREEN.
 - WIRE NUMBERS SHALL BE AT BOTH ENDS OF THE WIRES FOLLOWING THE INFO FROM THE SINGLE LINE DRAWINGS.
 - EX: L1="AREA-RUNG.SHT-L1", L1="4103-200.08-L1"

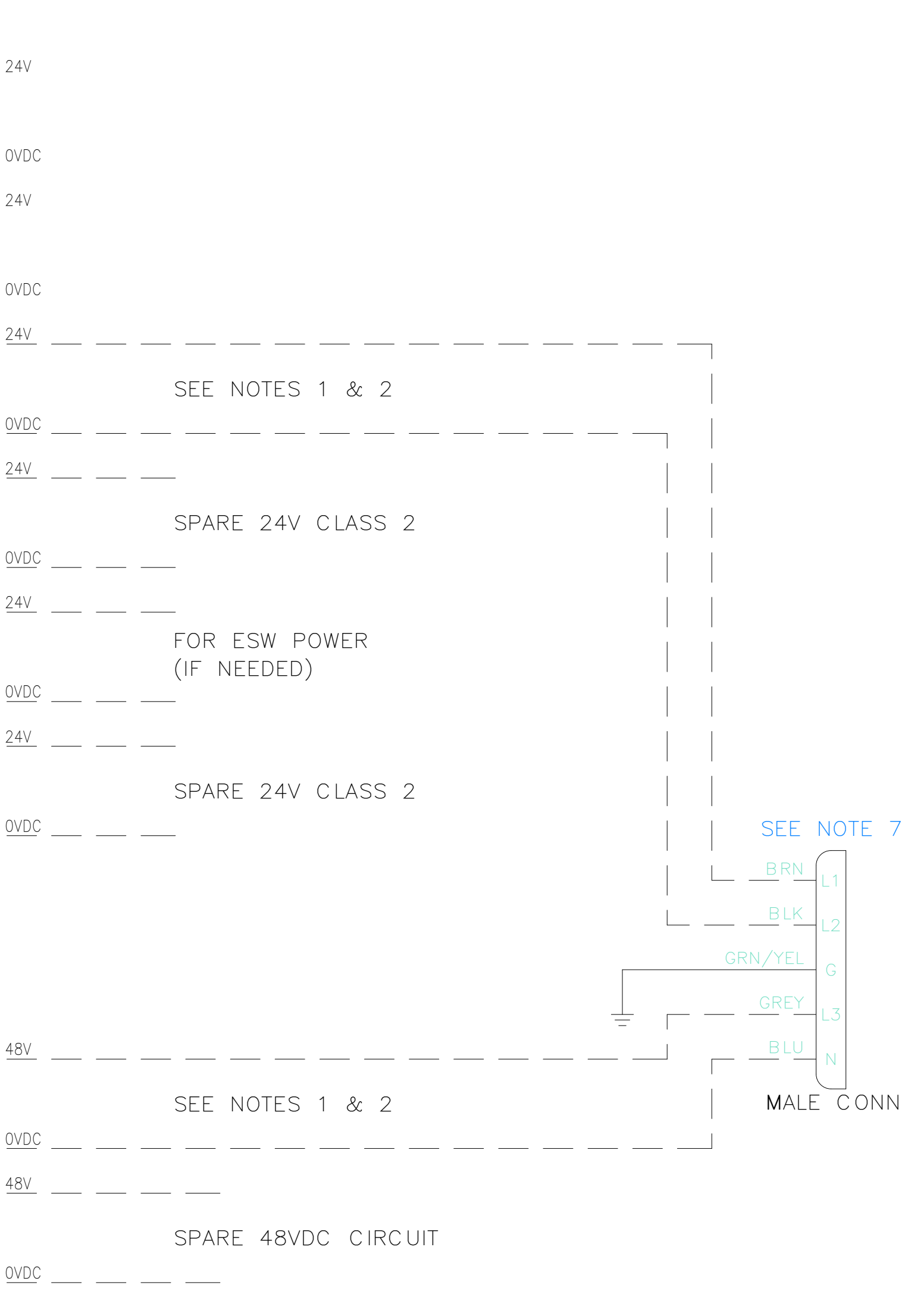
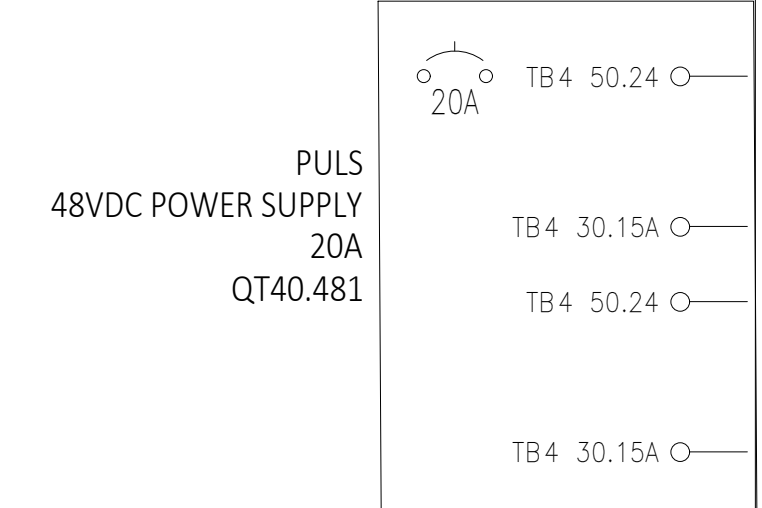
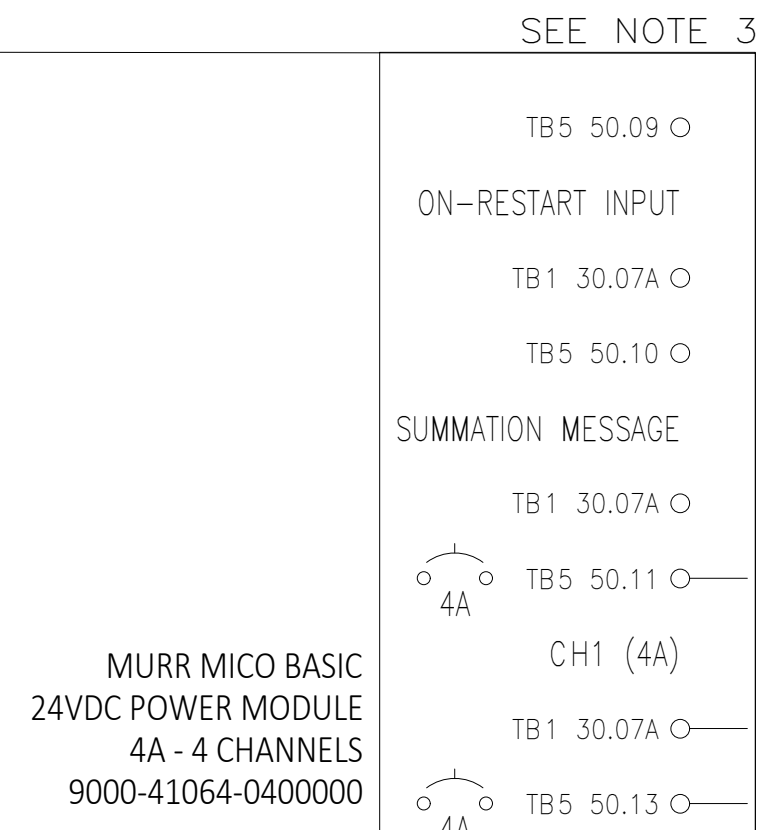
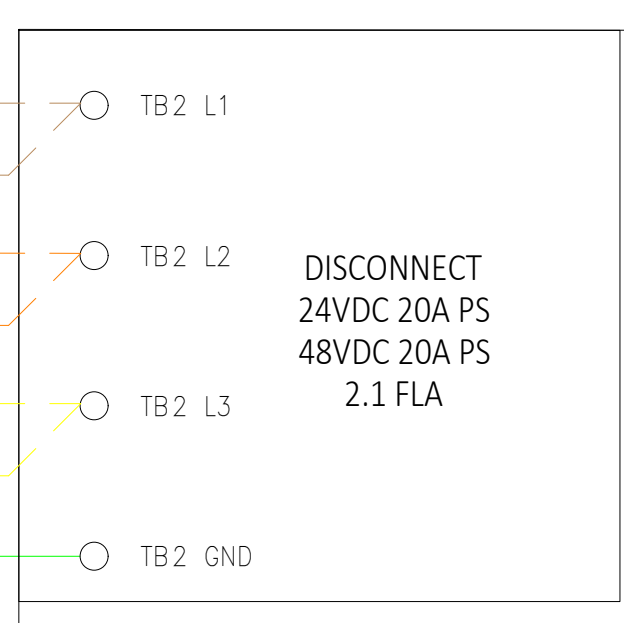
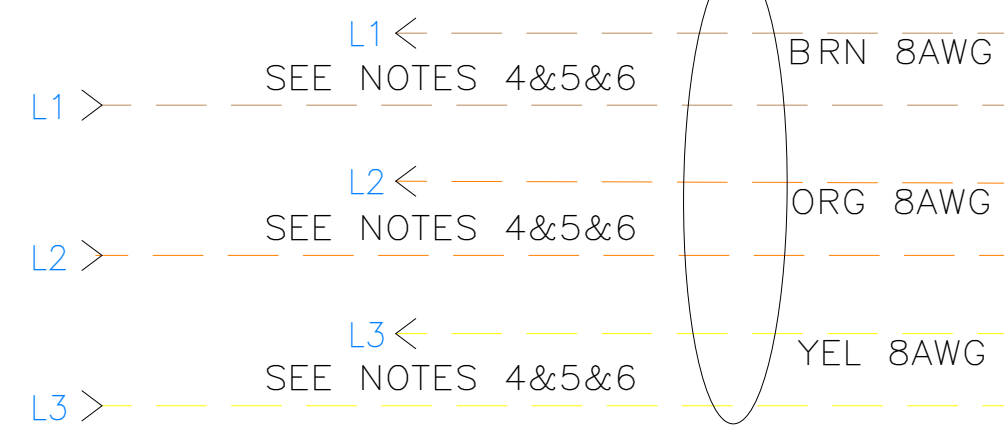
REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER			
LOCATION			
CUSTOMER DRAWING #: DAB2-E- - 905			
STATUS:		AS BUILT	
DRAWN : USTWILM		TITLE : CP1090 - DOCK SORTER (SPO)	
DATE : 07/06/2023		24-2 (CLASS 2) POWER SUPPLY TYPICAL	
SCALE : NTS		NUMBER : 29332-431-11090	SHT: 905
		EN	REV.: C01

SPO 24V & 48VDC POWER SUPPLY PANEL TYPICAL
VI#N97500-161

8 AWG POWER WIRE
TERMINALS CAN BE DAISY CHAINED
TO OTHER ASSEMBLIES

SOURCE: RDP
480VAC, 3PH, 60HZ



907-01
907-02
907-03
907-04
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907-22

- DESIGN NOTES:
- THIS PANEL CAN POWER 8 SCU'S ON AN SPO SORTER.
 - REFER TO SPO 3.0 INSTALLATION PACKAGE FOR 48VDC AND 24VDC FIELD CONNECTIONS
 - FOR ADDITIONAL DETAIL SEE THE PRODUCT DRAWING N97500-161-00001.

- INSTALLATION NOTES:
- WIRE SIZE PROVIDED AS A MINIMUM REQUIRED. VOLTAGE DROP AND DE-RATING CALCS SHALL BE COMPLETED BY THE INSTALLERS.
 - ALL 480VAC POWER WIRING TO BE L1=BROWN, L2=ORANGE, L3=YELLOW, GND=GREEN.
 - WIRE NUMBERS SHALL BE AT BOTH ENDS OF THE WIRES FOLLOWING THE INFO FROM THE SINGLE LINE DRAWINGS.
 - EX: L1="AREA-RUNG.SHT-L1", L1="4103-200.08-L1"
 - WAGO PRE ASSEMBLED CABLE: VI # 006002-16997/WAGO 771-9995/017-801 (8 METER). YOU WILL HAVE TO CUT OFF THE FEMALE END AND STRIP BACK THE INSULATION. (SOME PANELS COULD HAVE A MALE TO PIGTAILS END CABLE PROVIDED)

REV.:	DRAWN	CHECKED	APPROVED	DATE	DESCRIPTION
C01	USDCHER	USMVHI	USMVHI	09/27/2024	AS BUILT

CUSTOMER		LOCATION	
CUSTOMER DRAWING #: DAB2-E- - 907			
STATUS:		AS BUILT	
DRAWN : USTWILM		TITLE : CP1090 - DOCK SORTER (SPO)	
DATE : 07/06/2023		SPO 24V & 48VDC POWER SUPPLY PANEL TYPICAL	
SCALE : NTS		NUMBER :	29332-431 -11090
		SHT: 907	EN
		REV.:	C01

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