
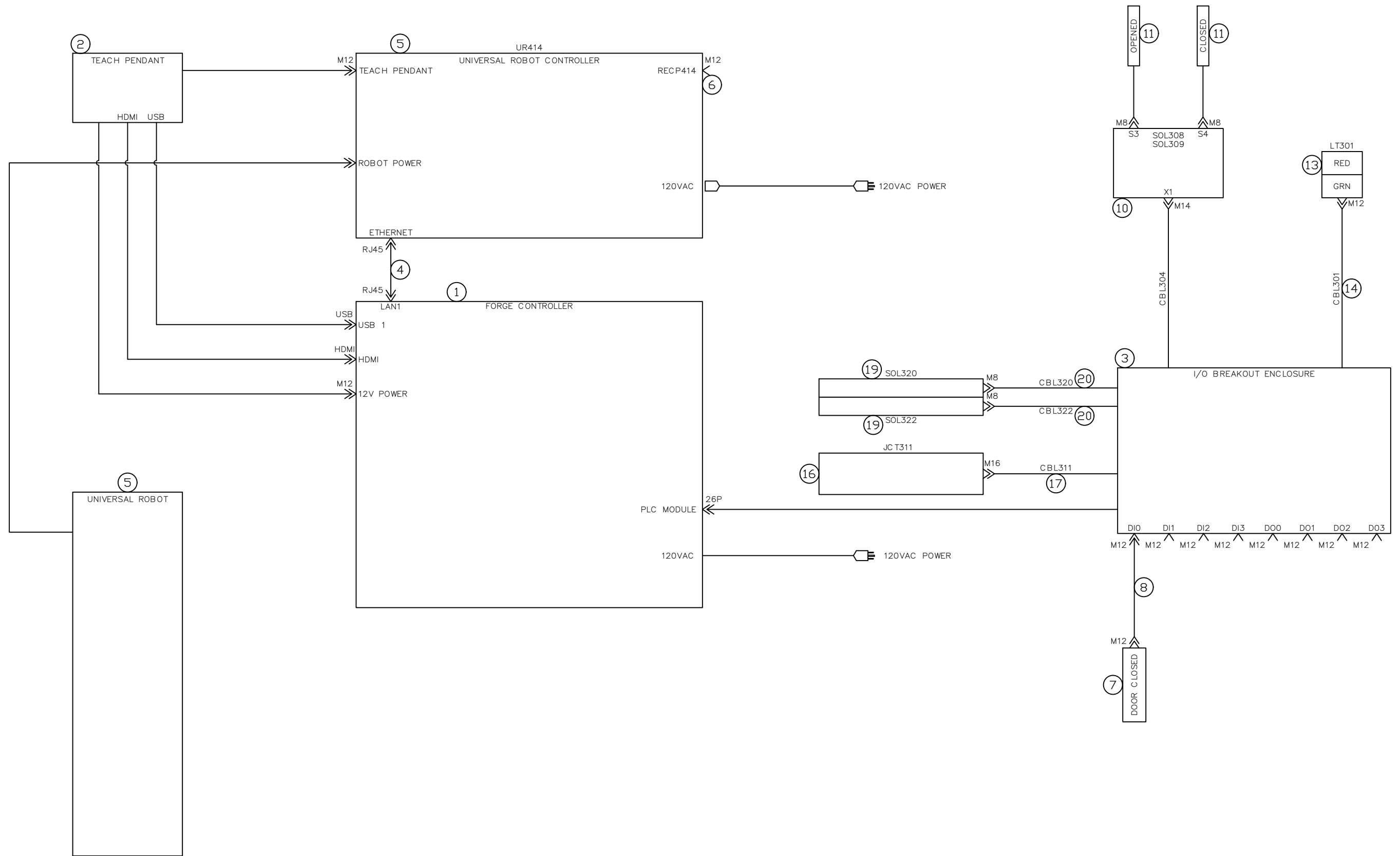


ELECTRICAL DRAWING LIST	
SHEET	DESCRIPTION
R-101233-E01-01	TITLE SHEET
R-101233-E01-02	SYSTEM LAYOUT
R-101233-E01-03	I/O BREAKOUT ENCLOSURE
R-101233-E01-04	UR5e ROBOT SAFETY CONNECTIONS
R-101233-E01-05	BILL OF MATERIALS


					JOB NUMBER: R-101233		TITLE: TITLE SHEET TURN-KEY MILL TENDING UR5e ROBOT & ACE			
					APPROVALS	DATE	CUSTOMER:			
					DRAWN T. HAYDEN	9-JUL-2020				
					CHECKED					
					APPROVED		SIZE B	DO NOT SCALE DRAWING	DWG. NO. R-101233-E01	REV. -
					ISSUED		SCALE N/A	REF	SHEET 01 OF 05	
REV. LTR.	REVISION DESCRIPTION	DRAWN BY	DATE	APPROVED BY	TOLERANCES UNLESS OTHERWISE SPECIFIED INCHES: .X DIM'S ±.02, .XX DIM'S ±.01, .XXX DIM'S ±.005 MILLIMETERS: X DIM'S ±0.5, XX DIM'S ±0.3, XXX DIM'S ±0.13 FRACTIONS ±1/64", ANGULAR DIM'S ±1"		PARTS MUST BE: RoHS COMPLIANT AND LEAD FREE NO ROLL FORM THREADS. SURFACE FINISH: 63 BREAK ALL SHARP EDGES .015 MAX. DIMENSIONS APPLY AFTER PLATING UNLESS OTHERWISE NOTED.		PROPRIETARY AND CONFIDENTIAL: THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF READY ROBOTICS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF READY ROBOTICS IS PROHIBITED.	
					FLATNESS & PERPENDICULARITY .001" OVER 6", .002" OVER 12", .005" 12" AND OVER		NOTE: UNTOLERANCED DIMENSIONS REFERENCING TRUE POSITIONS ARE BASIC		PARTS MUST BE FREE OF IRREGULARITIES PRIOR TO ANY SURFACE FINISH	

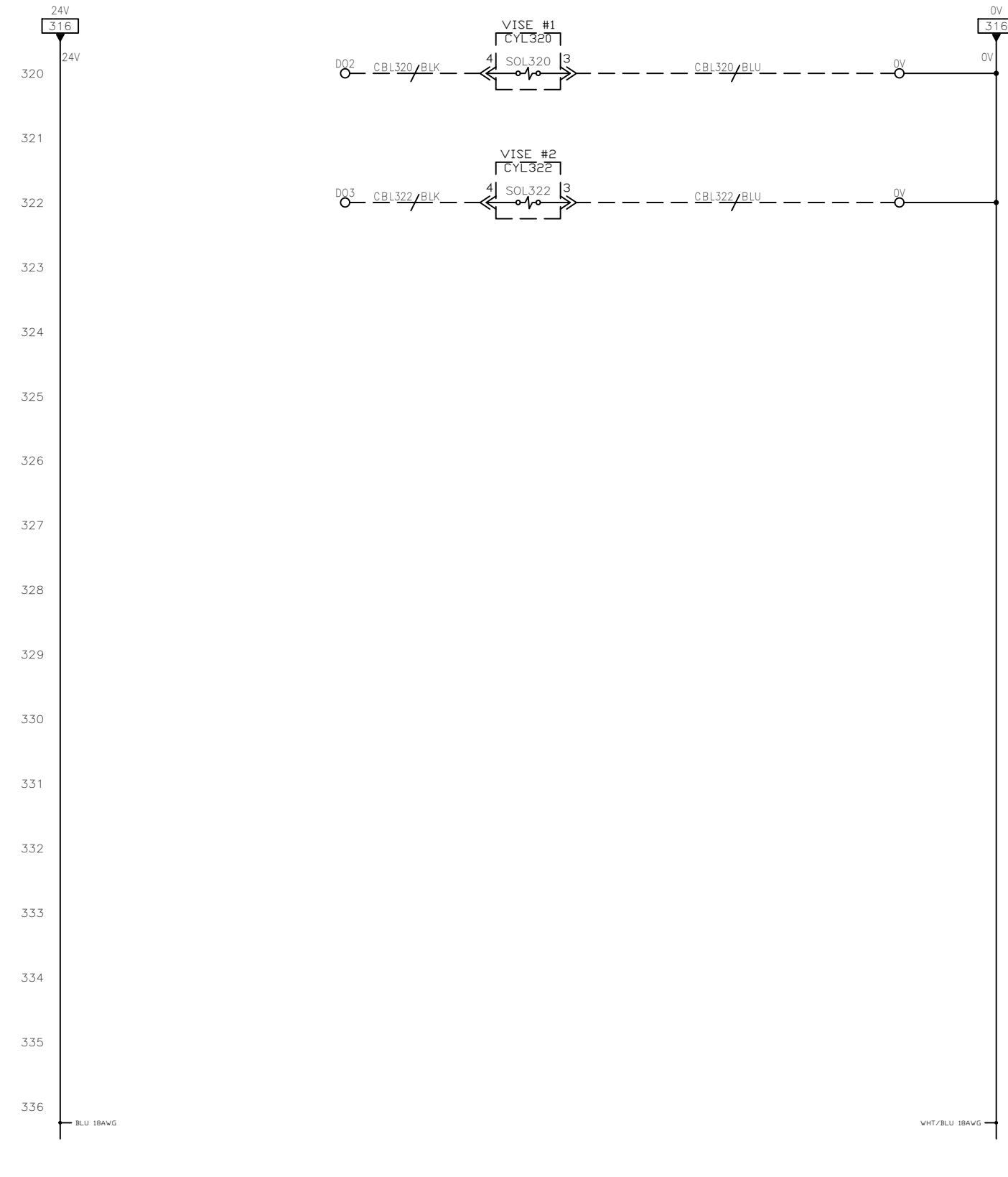
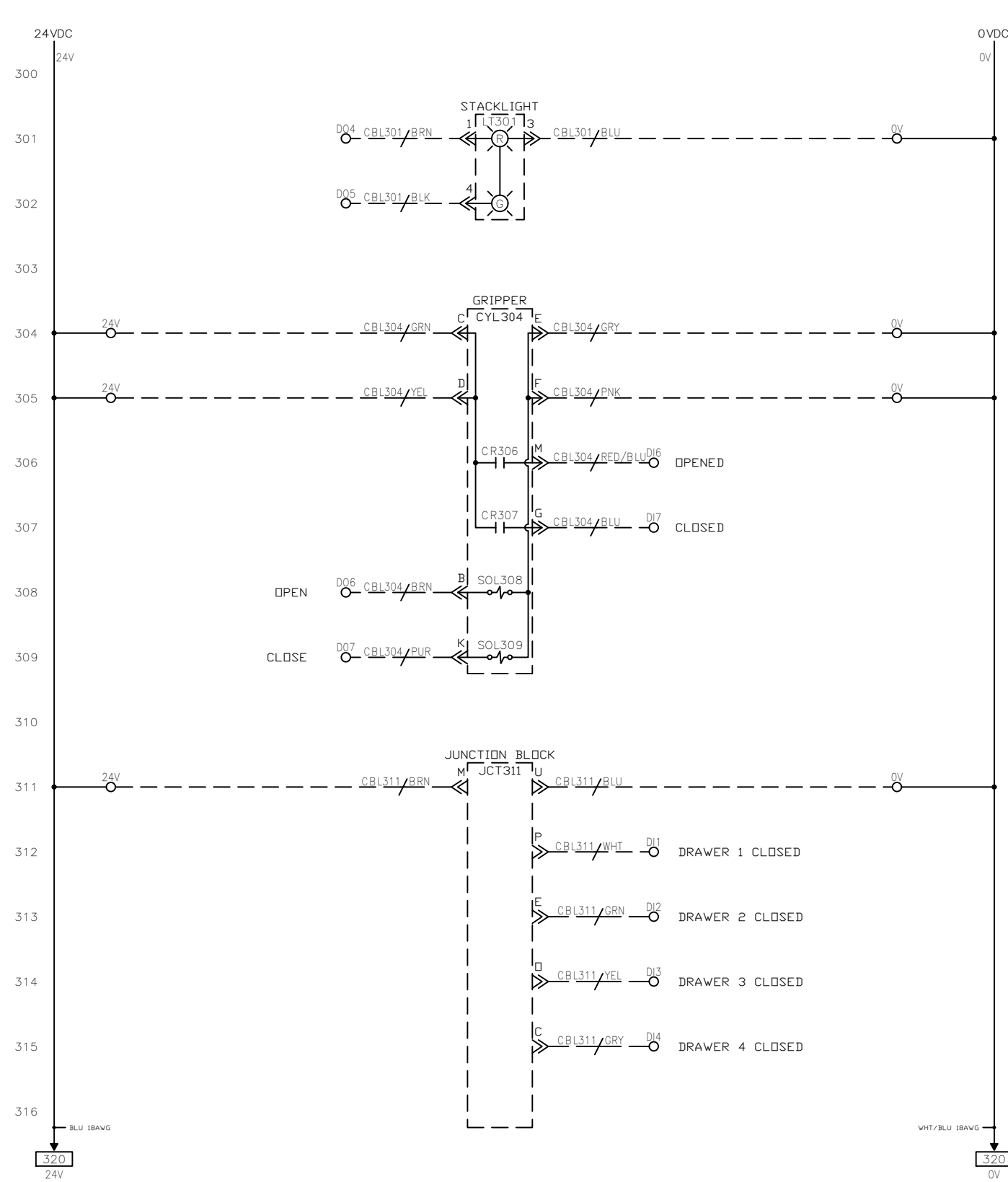
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NOTE: SEE SHEET 03 FOR DETAILED I/O BREAKOUT ENCLOSURE WIRE CONNECTIONS


SYSTEM LAYOUT

 READY Robotics 1080 Steelwood Rd. Columbus, OH 43212	SIZE	DWG. NO.	REV
	B	R-101233-E01	-
DRAWN T. HAYDEN	SCALE N/A	SHEET 02 OF 05	



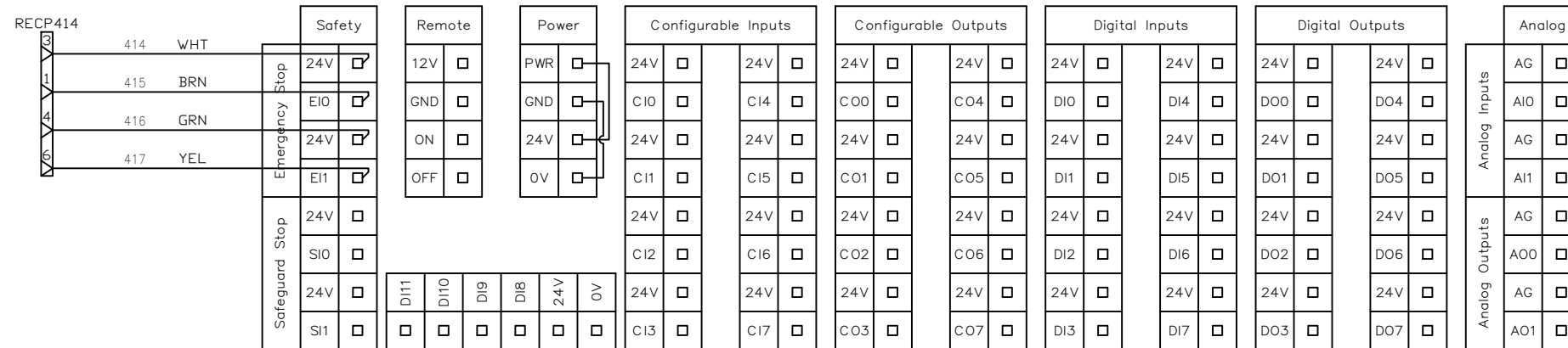
NOTE: ALL 24VDC WIRES ARE BLU 18AWG AND ALL 0VDC WIRES ARE WHT/BLU 18AWG UNLESS OTHERWISE STATED

I/O BREAKOUT ENCLOSURE


 READY Robotics 1080 Steelwood Rd. Columbus, OH 43212	SIZE	DO NOT SCALE DRAWING	DWG. NO.	REV
	B		R-101233-E01	-
DRAWN T. HAYDEN	SCALE N/A	SHEET 03 OF 05		

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UR414




UR5e ROBOT SAFETY CONNECTIONS

 READY Robotics 1080 Steelwood Rd. Columbus, OH 43212	SIZE	DO NOT SCALE DRAWING	DWG. NO.	REV
	B		R-101233-E01	-
DRAWN T. HAYDEN		SCALE N/A	SHEET 04 OF 05	
ISSUED				

BILL OF MATERIALS			
ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	CONTROLLER, FORGE, 120VAC, 16DIO	READY ROBOTICS R-100144
2	1	PENDANT, FORGE	READY ROBOTICS R-101078
3	1	EXPANSION, BREAKOUT, BOARD, I/O, 24VDC	READY ROBOTICS R-101080
4	1	CABLE, CORDSET, RJ45, 5M	TURCK RJ45S-RJ45S 441-5M
5	1	ROBOT, KIT, CONTROLLER, 850MM, 5KG	UNIVERSAL ROBOT UR5e
6	1	PANEL, MODIFICATION, UR CONTROLLER	READY ROBOTICS R-101198
7	1	SENSOR, DIFFUSED, 12MM, 24VDC, PNP	BALLUFF BOS01WP
8	1	CABLE, CORDSET, M12, 5 PIN, 5M	BALLUFF BCC09H3
9			
10	1	PNEUMATIC, VALVE BLOCK, 4 PORT	SCHUNK 0310072
11	2	SWITCH, REED, M8, 24VDC, PNP	SCHUNK MMS 22-S-M8-PNP
12			
13	1	LIGHT, STACK, M12, 24VDC, GRN - RED	BANNER TL50GRQ
14	1	CABLE, PATCHCORD, M12, 4 PIN, FEMALE, 9M	BANNER MQDC-430
15			
16	1	JUNCTION BOX, PICOFAST, M8, 3 PIN, 8 PORT, PNP	TURCK VB 803M-PX9-BS14
17	1	CABLE, PATCHCORD, VERSAFEST, M16, 14PIN, FEMALE, 10M	TURCK BKM 14-836-10
18			
19	0	PNEUMATIC, SOLENOID VALVE, 2 POSITION, SPRING RETURN	FESTO VUVG-LK14-M52-AT-G18-1R8L-S
20	2	CABLE, PATCHCORD, M8, 3 PIN, FEMALE, 5M	PHOENIX CONTACT 1669628

G:\Shared drives\Team - Integrations\11 - Internal Projects\R-101233-E01\Turn-key UR5e ACE Mill\R-101233-E01-05.dwg, Model: 7/14/2020 1:23:02 PM, travis.hayden

BILL OF MATERIALS

	READY Robotics 1080 Steelwood Rd. Columbus, OH 43212	SIZE <b>B</b>	DWG. NO. <b>R-101233-E01</b>	REV -
	DRAWN <b>T. HAYDEN</b>	DO NOT SCALE DRAWING		
ISSUED	SCALE <b>N/A</b>	SHEET <b>05</b> OF <b>05</b>		