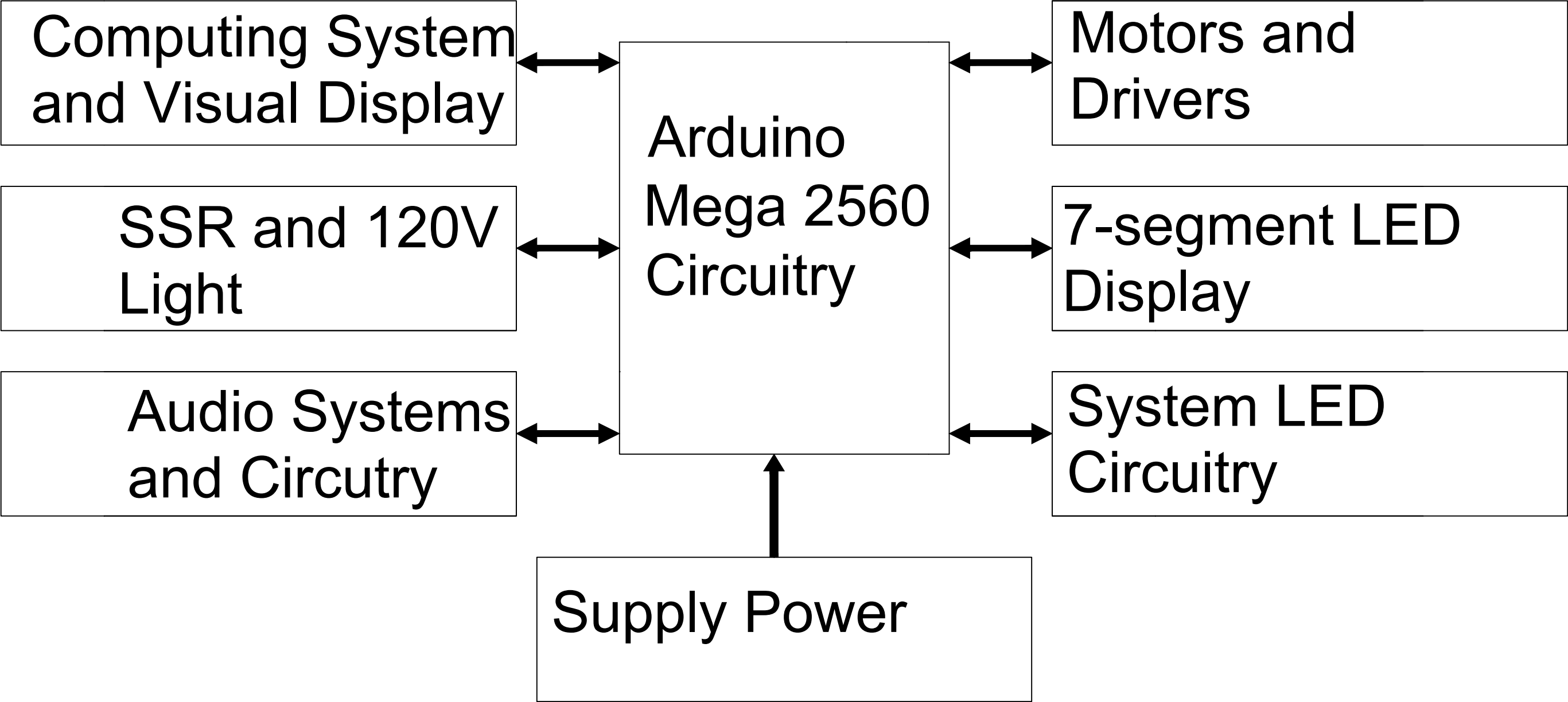


1100			
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	GATE 4 PRELIMINARY RELEASE	2/8/22	SM
01	GATE 5 PCB UPDATE	3/04/22	SM

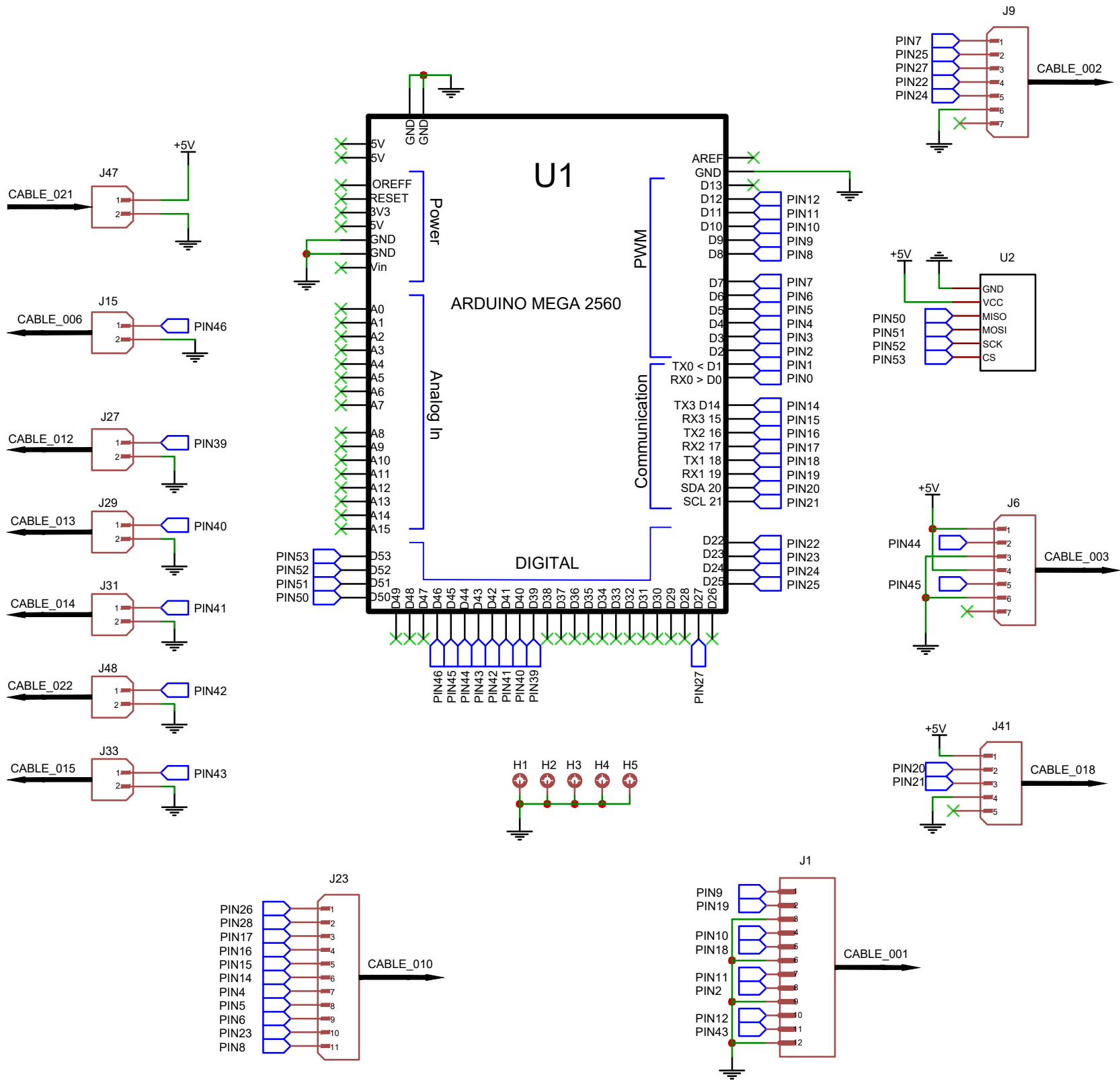


THIS DRAWING IS FOR PRELIMINARY
RELEASE ONLY. NOT TO BE CONSIDERED
AS A FINAL PRODUCT.

CAD MAINTAINED. CHANGES SHALL BE
INCORPORATED BY THE DESIGN ACTIVITY.

PREPARED	E. EICKHOLTZ	2021/02/08	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150	
CHECKED	S. MATTINGLY	2022/02/09	TITLE BLOCK DIAGRAM	
ENGINEER			FILENAME: Draw1.SLDDRW	DWG NO. 1000

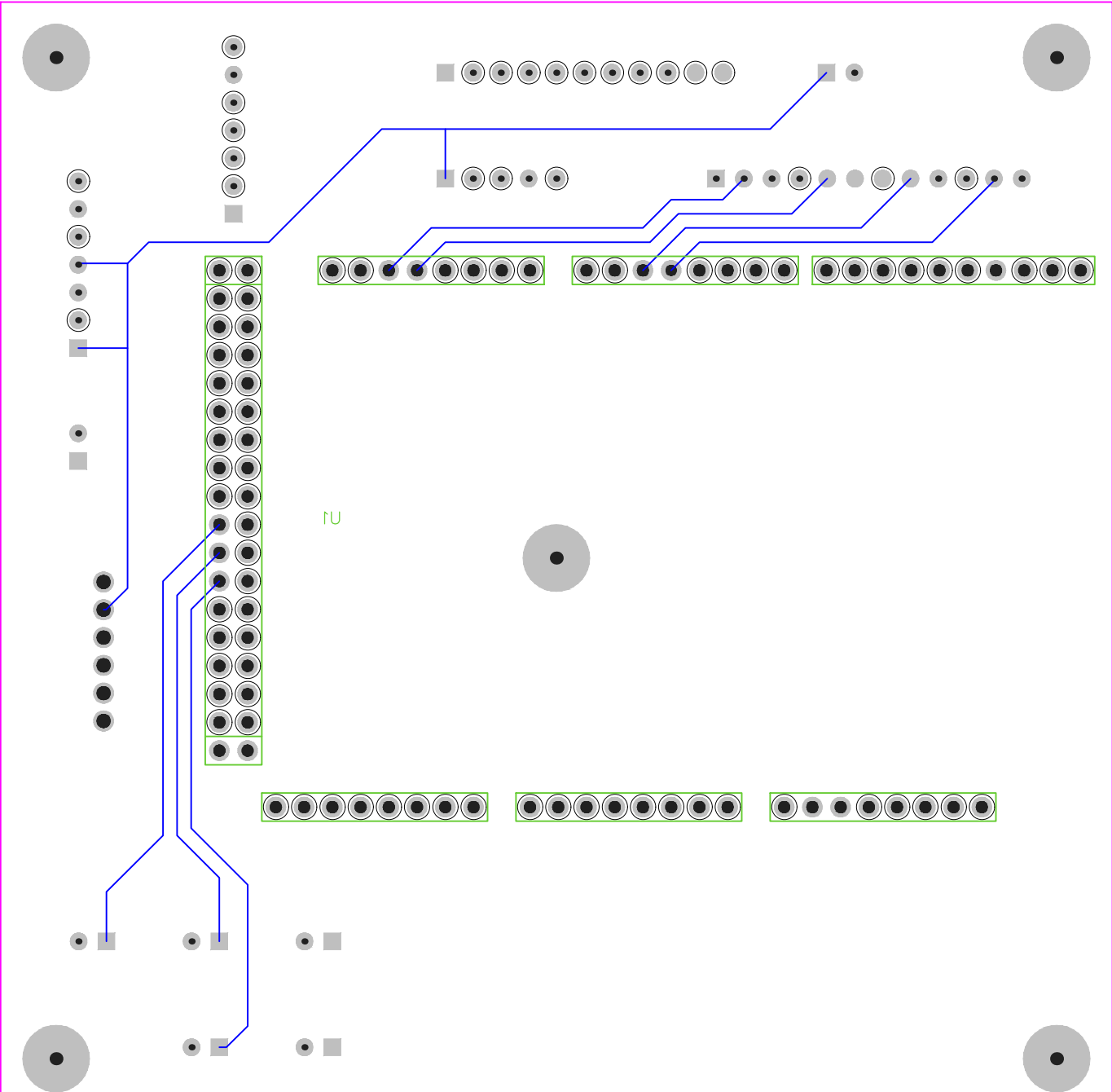
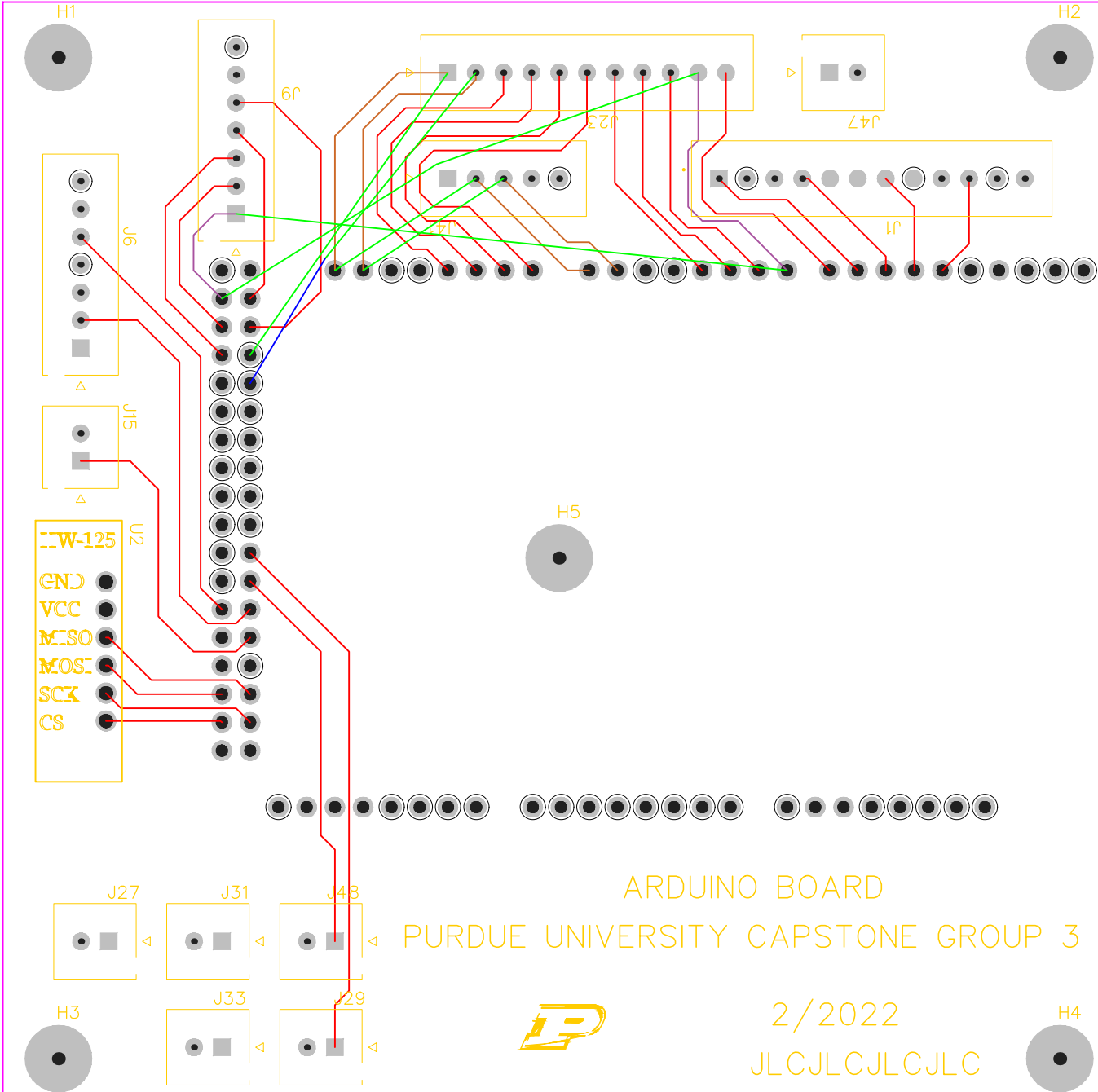
DWG NO 1100			
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	GATE 4 PRELIMINARY RELEASE	2/8/22	SM
01	GATE 5 PCB UPDATE	3/14/22	JC



DWG 1100 BILL OF MATERIALS (BOM)		
IDENTIFIER	DESCRIPTION	PART #
U1	ARDUINO MEGA 2560 ATMEGA2560	A000067
U2	MICRO-SD CARD MODULE FOR ARDUINO	DFR0229
J1	CONN HEADER VERT 12POS 2.5MM	533751210
J23	CONN HEADER VERT 11POS 2.5MM	533751110
J6	CONN HEADER VERT 7POS 2.5MM	533750710
J9	CONN HEADER VERT 7POS 2.5MM	533750710
J41	CONN HEADER VERT 5POS 2.5MM	533750510
J15	CONN HEADER VERT 2POS 2.5MM	533750210
J47	CONN HEADER VERT 2POS 2.5MM	533750210
J27	CONN HEADER VERT 2POS 2.5MM	533750210
J29	CONN HEADER VERT 2POS 2.5MM	533750210
J31	CONN HEADER VERT 2POS 2.5MM	533750210
J48	CONN HEADER VERT 2POS 2.5MM	533750210
J33	CONN HEADER VERT 2POS 2.5MM	533750210
H1	HEX STANDOFF THREADED M2.5	971050154
H2	HEX STANDOFF THREADED M2.6	971050154
H3	HEX STANDOFF THREADED M2.7	971050154
H4	HEX STANDOFF THREADED M2.8	971050154
U3	CUSTOM JLC PCB	JLC01
CABLE_001	REFERENCE DRAWING 1120	
CABLE_002	REFERENCE DRAWING 1120	
CABLE_003	REFERENCE DRAWING 1120	
CABLE_006	REFERENCE DRAWING 1121	
CABLE_010	REFERENCE DRAWING 1121	
CABLE_012	REFERENCE DRAWING 1121	
CABLE_013	REFERENCE DRAWING 1122	
CABLE_014	REFERENCE DRAWING 1122	
CABLE_015	REFERENCE DRAWING 1122	
CABLE_018	REFERENCE DRAWING 1122	
CABLE_021	REFERENCE DRAWING 1123	
CABLE_022	REFERENCE DRAWING 1123	

PREPARED	E. EICKHOLTZ	2021/02/24	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150	
CHECKED	J. COUCH	2021/03/14	TITLE ARDUINO SHIELD ON-BOARD SCHEMATIC	
ENGINEER			FILENAME 1100.DWG	DWG NO 1100

REV 1101			
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	GATE 4 PRELIMINARY RELEASE	2/8/22	SM
01	GATE 5 PCB UPDATE	3/04/22	SM

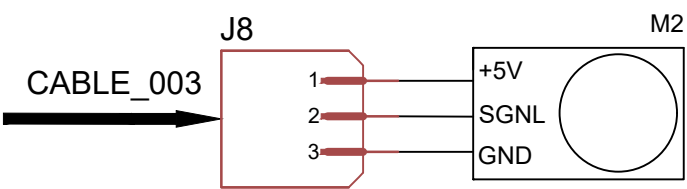
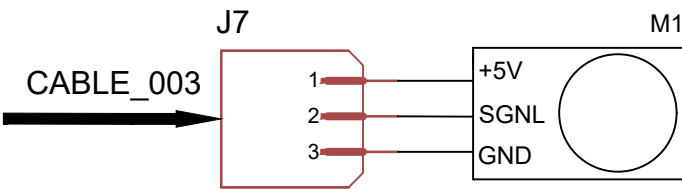
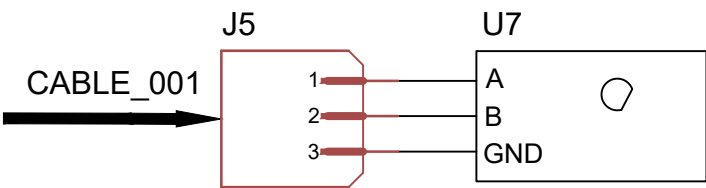
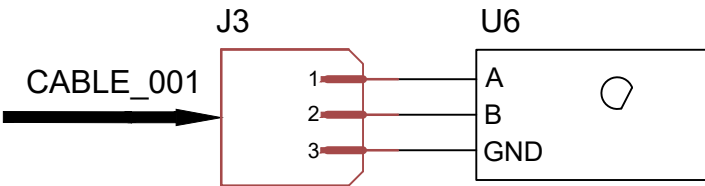
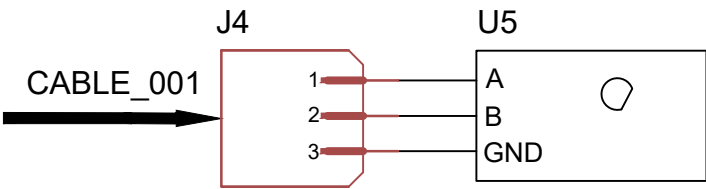
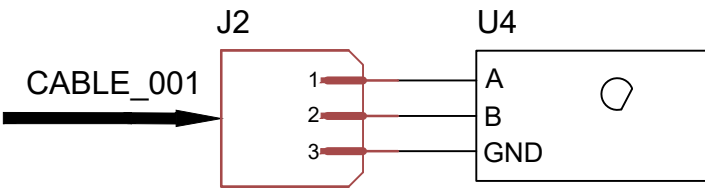


—	TOP LAYER TRACE
—	BOTTOM LAYER TRACE
—	COPPER LAYER CUT TRACE
—	EXTERNAL WIRE

BOTH SIDES OF PCB ARE SOLID
COPPER LAYER NET TIED TO GND

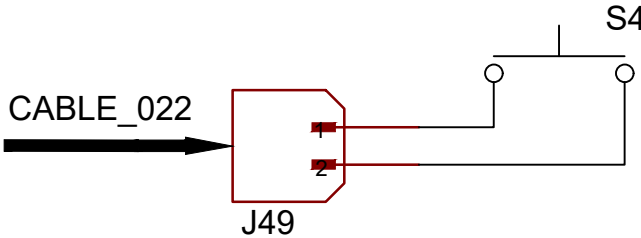
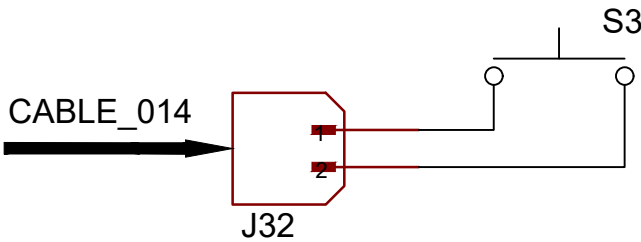
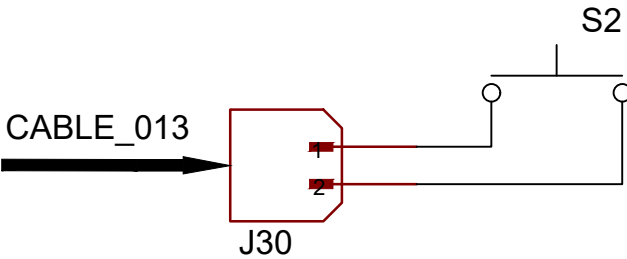
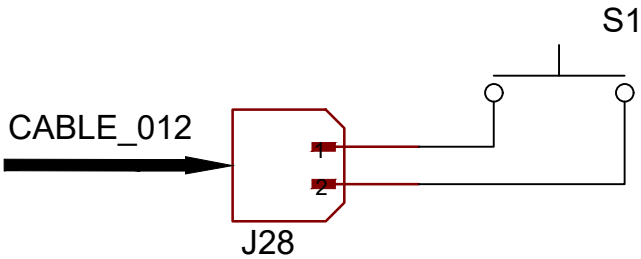
PREPARED	E. EICKHOLTZ	2021/02/24	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150	
CHECKED	S. MATTINGLY	2022/03/04	TITLE ARDUINO MEGA 2560 PCB LAYOUT	
ENGINEER			FILENAME: 1101.DWG	DWG NO. 1101

1110			
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	GATE 5 ARDUINO ENDPOINTS	03/13/22	SDM
01	UPDATED BOM FOR MATERIALS	03/14/22	SDM

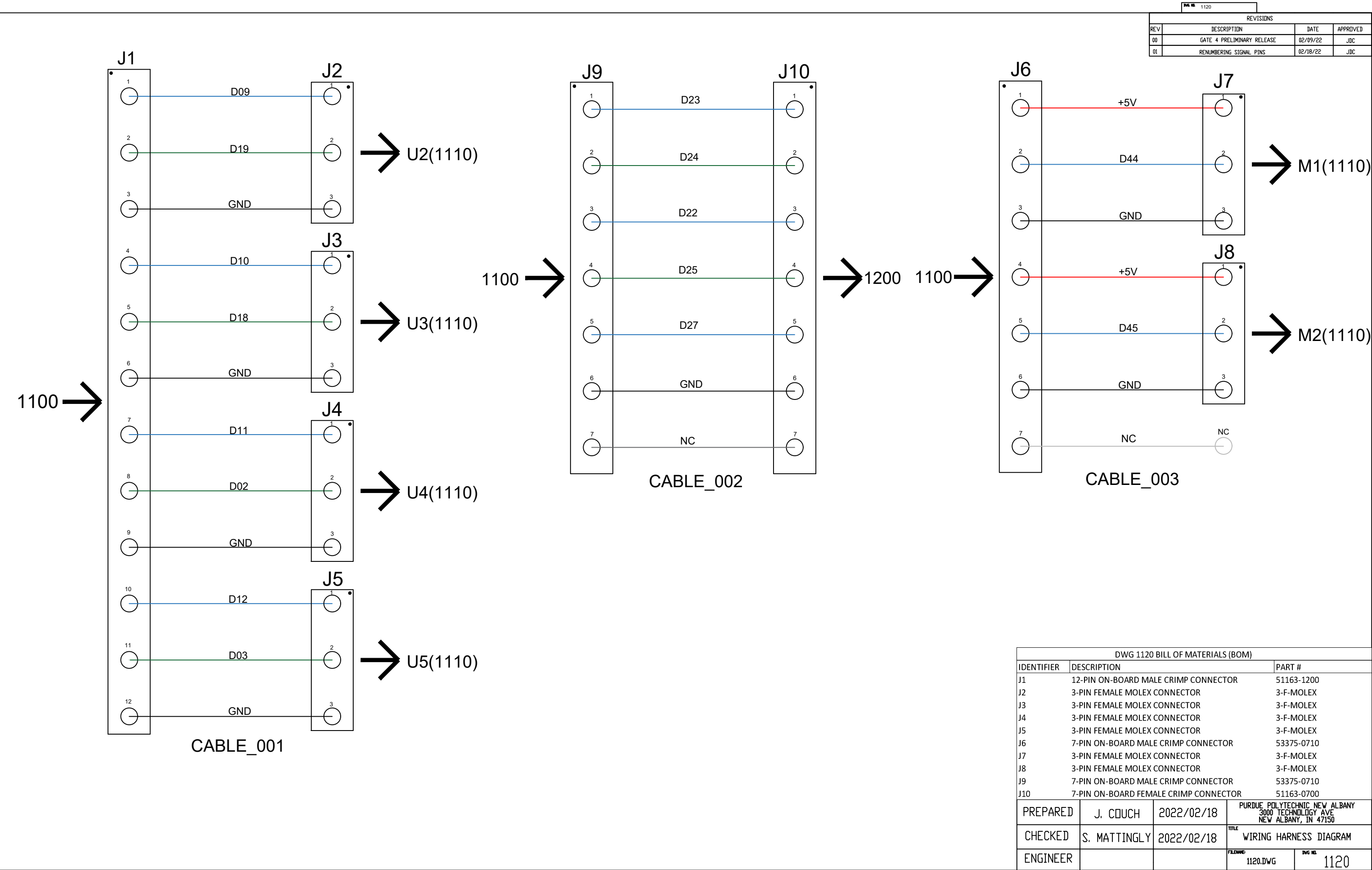


DWG 1110 BILL OF MATERIALS (BOM)				
IDENTIFIER	DESCRIPTION		PART #	
M1	ADAFRUIT SERVO MOTOR		154	
M2	ADAFRUIT SERVO MOTOR		154	
U4	CTS ELECTRONICS ROTARY ENCODER		288T232R161A1	
U5	CTS ELECTRONICS ROTARY ENCODER		288T232R161A1	
U6	CTS ELECTRONICS ROTARY ENCODER		288T232R161A1	
U7	CTS ELECTRONICS ROTARY ENCODER		288T232R161A1	
J2	3-PIN MALE MOLEX CONNECTOR		3-M-MOLEX	
J3	3-PIN MALE MOLEX CONNECTOR		3-M-MOLEX	
J4	3-PIN MALE MOLEX CONNECTOR		3-M-MOLEX	
J5	3-PIN MALE MOLEX CONNECTOR		3-M-MOLEX	
J7	3-PIN MALE MOLEX CONNECTOR		3-M-MOLEX	
J8	3-PIN MALE MOLEX CONNECTOR		3-M-MOLEX	
CABLE_001	REFERENCE DRAWING 1120			
CABLE_003	REFERENCE DRAWING 1120			
PREPARED	S. MATTINGLY	2022/03/13	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150	
CHECKED	J. COUCH	2022/03/15	TITLE ARDUINO MEGA 2560 OFF-BOARD COMPONENTS	
ENGINEER			FILENAME: 1110.ARDUINO	DWG NO. 1110

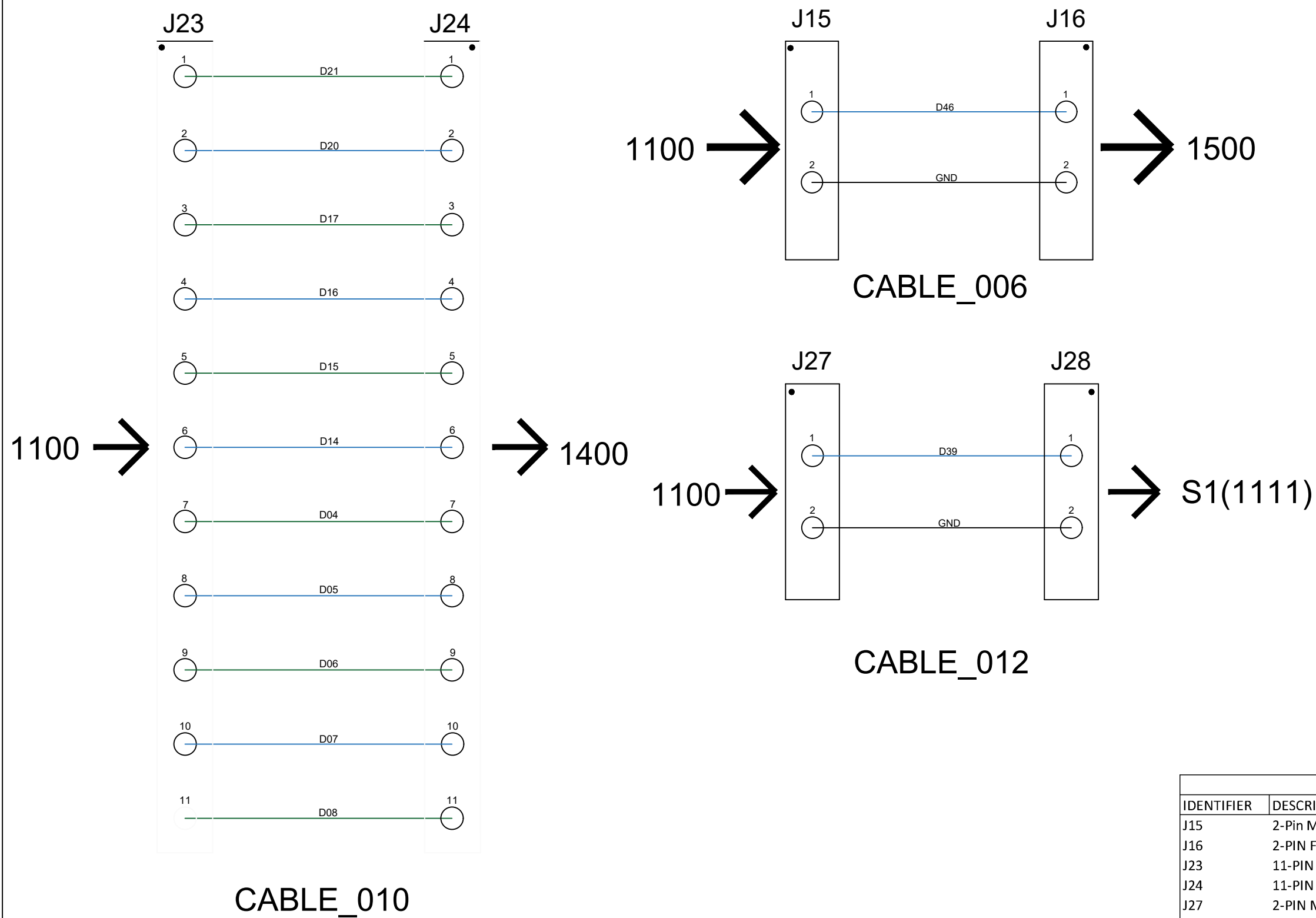
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	GATE 5 ARDUINO ENDPOINTS	03/13/22	SDM
01	UPDATED BOM FOR MATERIALS	03/14/22	SDM



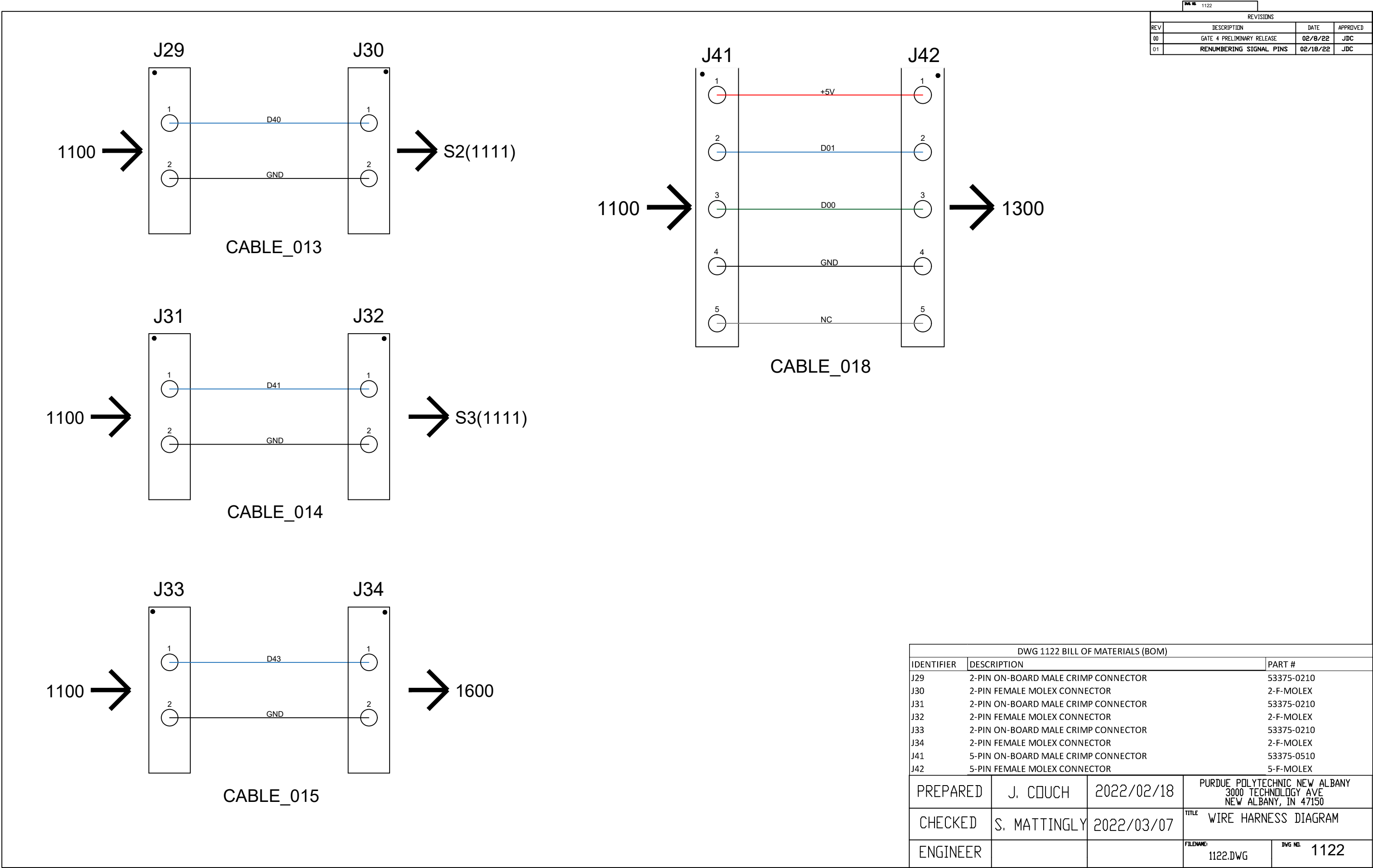
DWG 1111 BILL OF MATERIALS (BOM)				
IDENTIFIER	DESCRIPTION		PART #	
J28	2-PIN MALE MOLEX CONNECTOR		2-M-MOLEX	
J30	2-PIN MALE MOLEX CONNECTOR		2-M-MOLEX	
J32	2-PIN MALE MOLEX CONNECTOR		2-M-MOLEX	
J49	2-PIN MALE MOLEX CONNECTOR		2-M-MOLEX	
S1	NO-PUSH BUTTON		PB-001	
S2	NO-PUSH BUTTON		PB-002	
S3	NO-PUSH BUTTON		PB-003	
S4	NO-PUSH BUTTON		PB-004	
CABLE_012	REFERENCE DRAWING 1121			
CABLE_013	REFERENCE DRAWING 1122			
CABLE_014	REFERENCE DRAWING 1122			
CABLE_022	REFERENCE DRAWING 1123			
PREPARED	S. MATTINGLY	2022/03/13	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150	
CHECKED	J. COUCH	2022/03/15	TITLE ARDUINO MEGA 2560 OFF-BOARD COMPONENTS	
ENGINEER			FILENAME: 1111.ARDUINO	DWG NO. 1111



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	GATE 4 PRELIMINARY RELEASE	02/8/22	JDC
01	RENUMBERING SIGNAL PINS	02/18/22	JDC



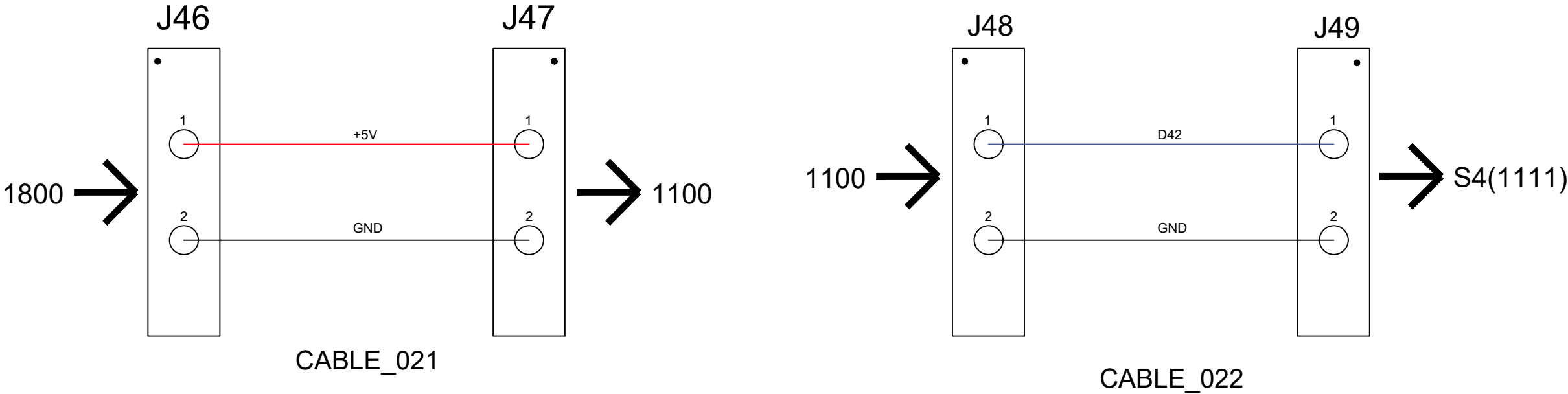
DWG 1121 BILL OF MATERIALS (BOM)				
IDENTIFIER	DESCRIPTION		PART #	
J15	2-Pin MALE MOLEX MINI-LOCK CONNECTOR		53375-0210	
J16	2-PIN FEMALE MOLEX CONNECTOR		2-F-MOLEX	
J23	11-PIN MALE MOLEX MINI-LOCK CONNECTOR		53375-1210	
J24	11-PIN FEMALE MOLEX CONNECTOR		11-F-MOLEX	
J27	2-PIN MALE MOLEX MINI-LOCK CONNECTOR		53375-0210	
J28	2-PIN FEMALE MOLEX CONNECTOR		2-F-MOLEX	
PREPARED	J. COUCH	2022/02/18	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150	
CHECKED	A. BOEHM	2022/03/14	TITLE WIRE HARNESS DIAGRAM	
ENGINEER			FILENAME: 1121.DWG	DWG NO. 1121



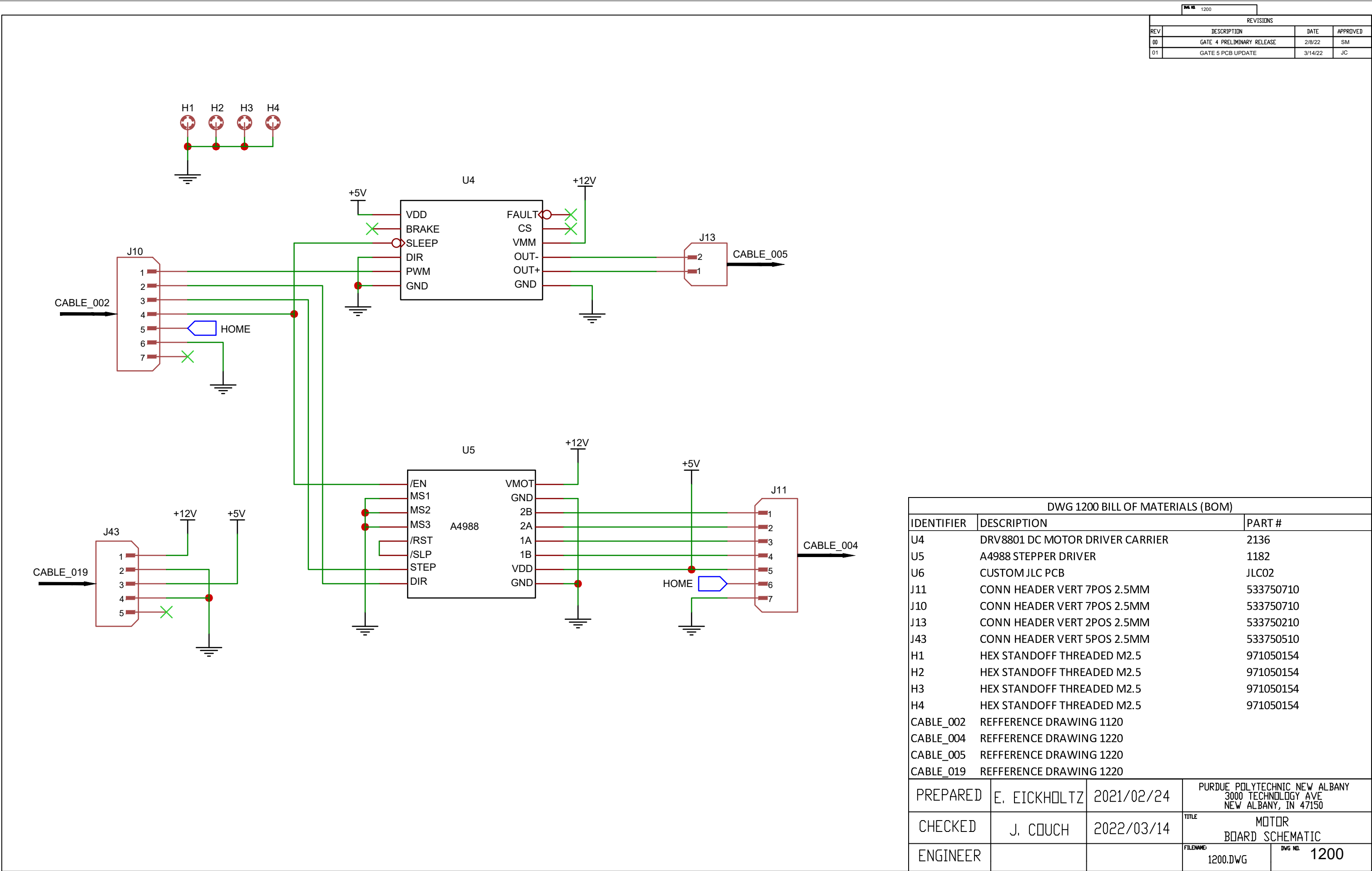
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	GATE 4 PRELIMINARY RELEASE	02/8/22	JDC
01	RENUMBERING SIGNAL PINS	02/18/22	JDC

DWG 1122 BILL OF MATERIALS (BOM)			
IDENTIFIER	DESCRIPTION	PART #	
J29	2-PIN ON-BOARD MALE CRIMP CONNECTOR	53375-0210	
J30	2-PIN FEMALE MOLEX CONNECTOR	2-F-MOLEX	
J31	2-PIN ON-BOARD MALE CRIMP CONNECTOR	53375-0210	
J32	2-PIN FEMALE MOLEX CONNECTOR	2-F-MOLEX	
J33	2-PIN ON-BOARD MALE CRIMP CONNECTOR	53375-0210	
J34	2-PIN FEMALE MOLEX CONNECTOR	2-F-MOLEX	
J41	5-PIN ON-BOARD MALE CRIMP CONNECTOR	53375-0510	
J42	5-PIN FEMALE MOLEX CONNECTOR	5-F-MOLEX	
PREPARED	J. COUCH	2022/02/18	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150
CHECKED	S. MATTINGLY	2022/03/07	TITLE WIRE HARNESS DIAGRAM
ENGINEER			FILENAME: 1122.DWG DWG NO. 1122

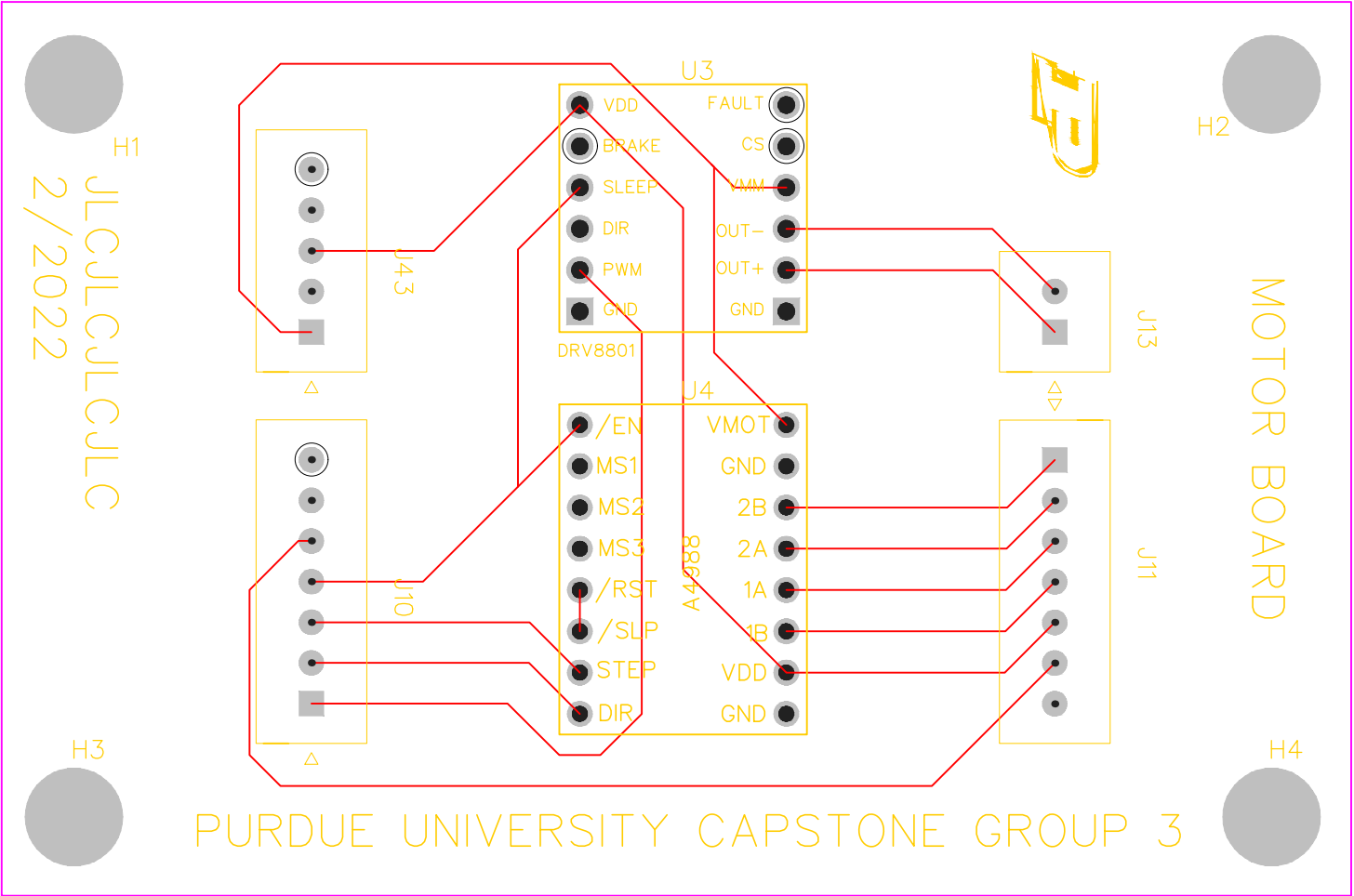
1123		REVISIONS		
REV	DESCRIPTION	DATE	APPROVED	
00	GATE 4 PRELIMINARY RELEASE	02/8/22	JDC	
01	RENUMBERING SIGNAL PINS	02/18/22	JDC	



DWG 1123 BILL OF MATERIALS (BOM)				
IDENTIFIER	DESCRIPTION		PART #	
J46	2-PIN MALE MOLEX MINI-LOCK CONNECTOR		53375-0210	
J47	2-PIN FEMALE MOLEX CONNECTOR		2-F-MOLEX	
J48	2-PIN MALE MOLEX MINI-LOCK CONNECTOR		53375-0210	
J49	2-PIN FEMALE MOLEX CONNECTOR		2-F-MOLEX	
PREPARED	J. COUCH	2022/02/18	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150	
CHECKED	A. BOEHM	2022/03/14	TITLE WIRE HARNESS DIAGRAM	
ENGINEER			FILENAME: 1123.DWG	DWG NO. 1123



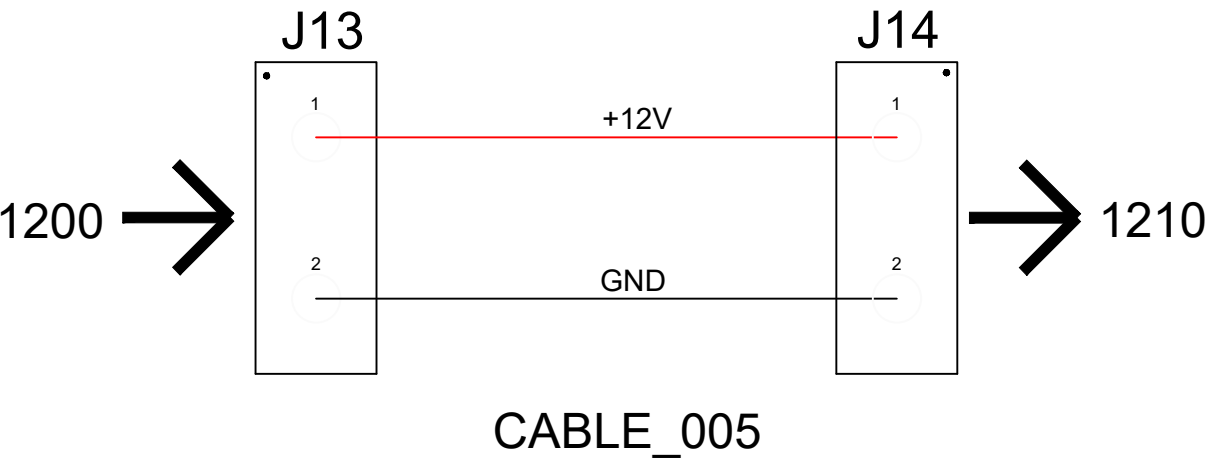
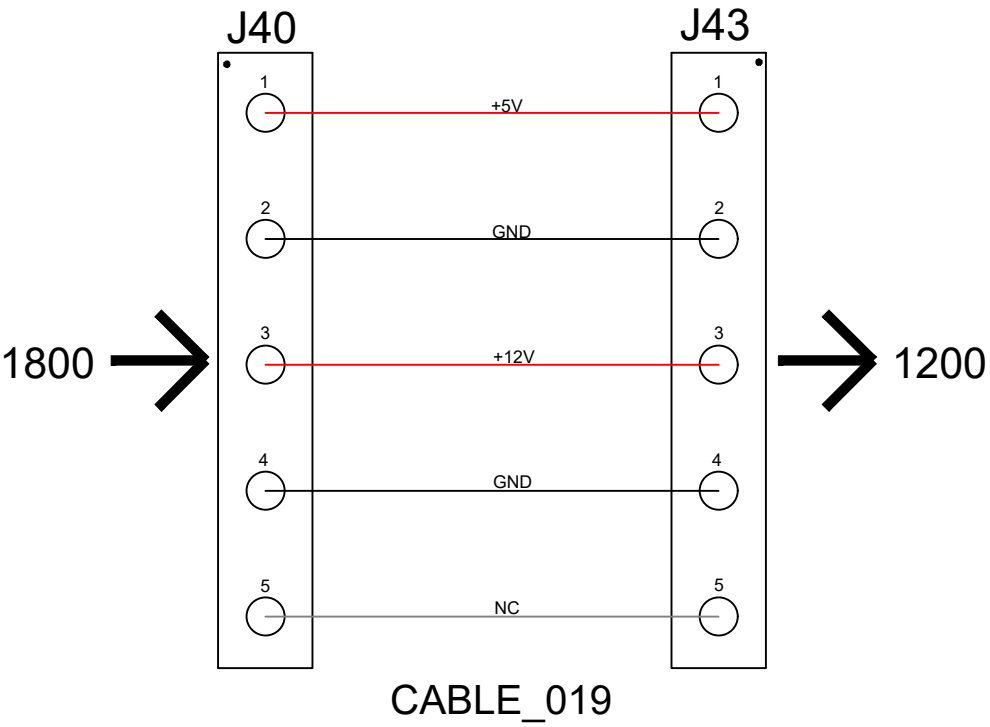
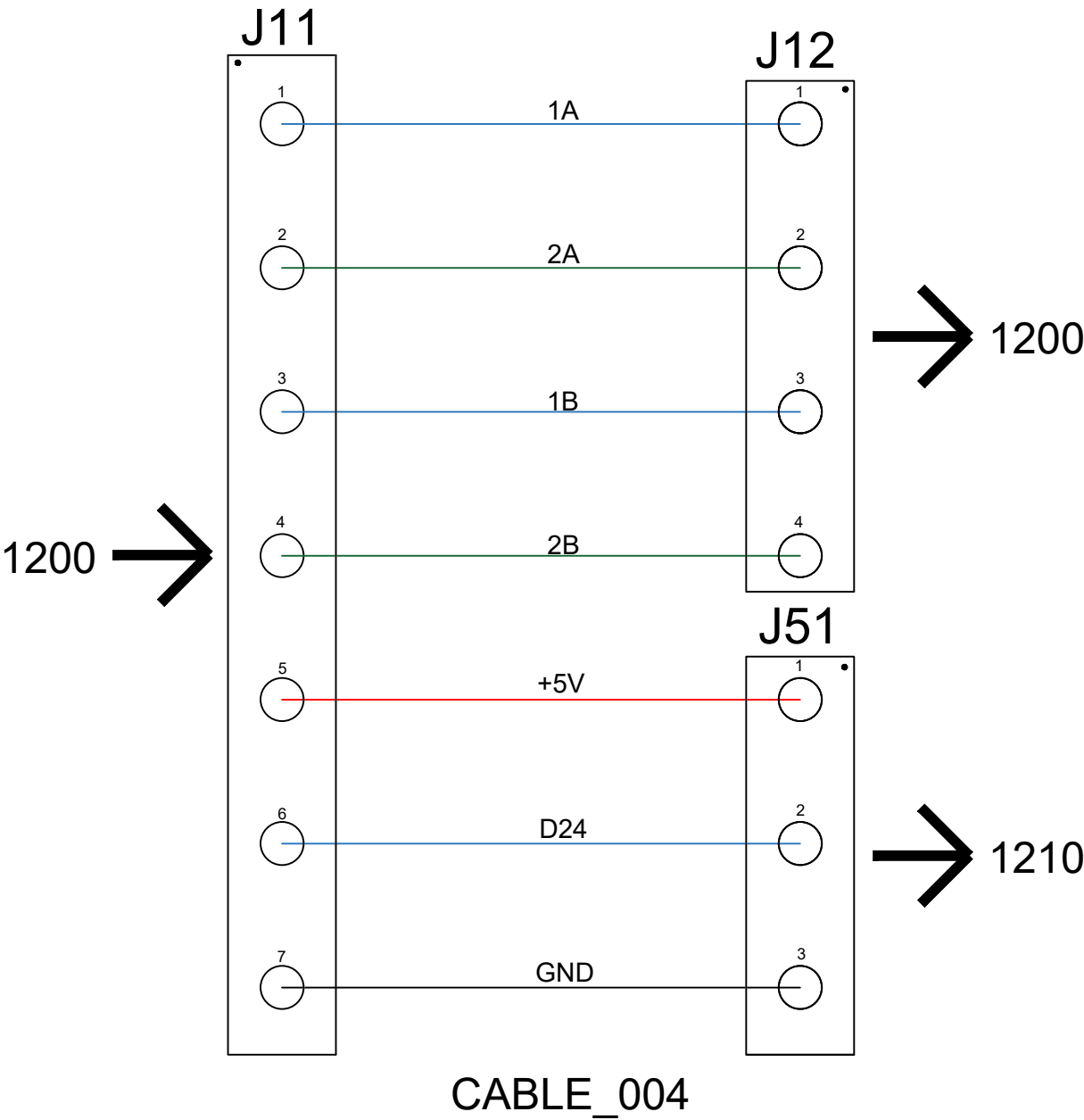
1201			
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	GATE 4 PRELIMINARY RELEASE	2/8/22	SM
01	GATE 5 PCB UPDATE	3/04/22	SM



BOTH SIDES OF PCB ARE SOLID
COPPER LAYER NET TIED TO GND

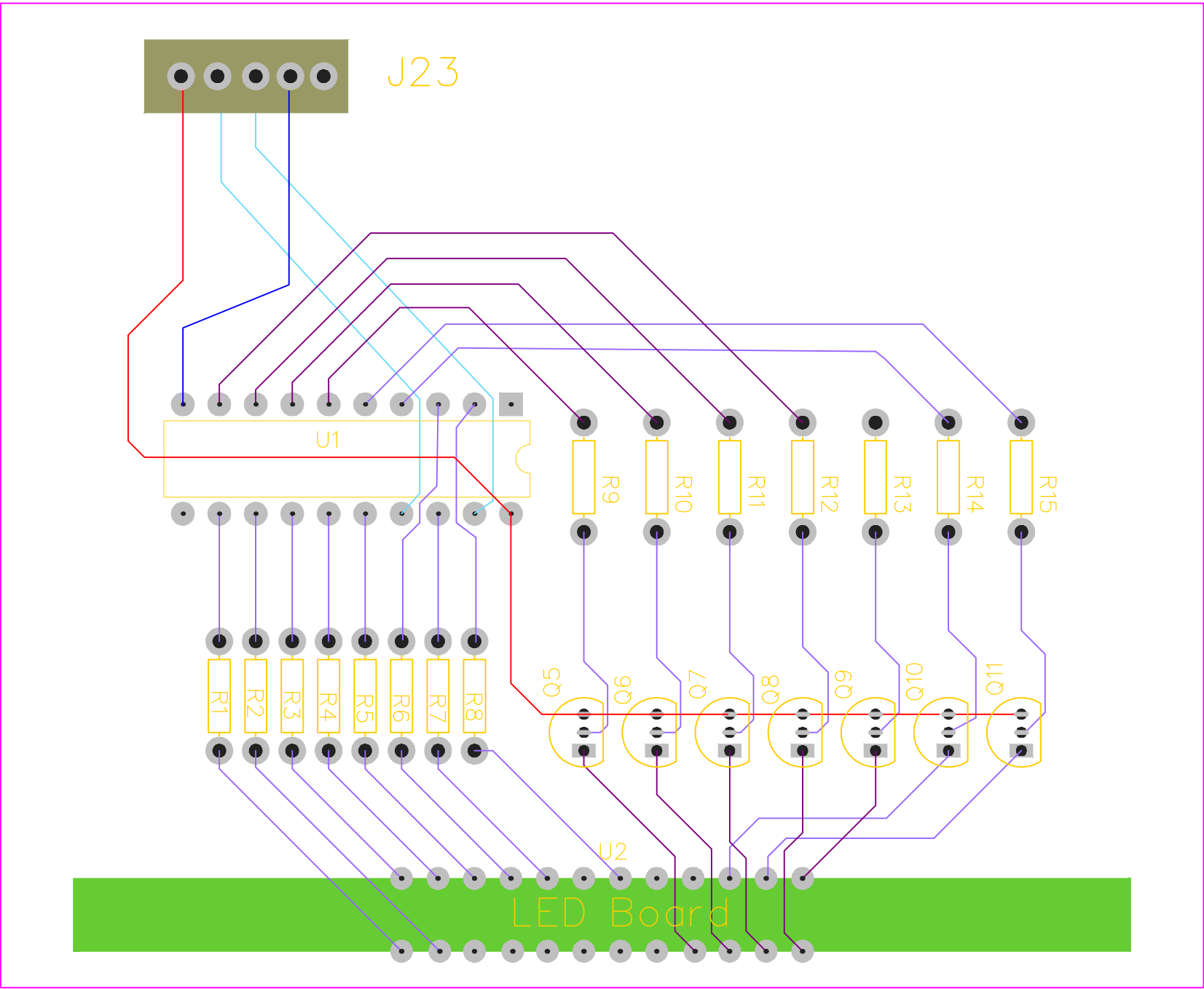
PREPARED	E. EICKHOLTZ	2021/02/24	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150	
CHECKED	S. MATTINGLY	2022/03/04	TITLE MOTOR PCB LAYOUT	
ENGINEER			FILENAME: 1201.DWG	DWG NO. 1201

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	GATE 4 PRELIMINARY RELEASE	02/8/22	JDC
01	RENUMBERING SIGNAL PINS	02/18/22	JDC



DWG 1220 BILL OF MATERIALS (BOM)				
IDENTIFIER	DESCRIPTION	PART #		
J11	7-PIN MALE MOLEX MINI-LOCK CONECTOR	53375-0710		
J12	4-PIN FEMALE MOLEX CONNECTOR	4-F-MOLEX		
J51	3-PIN FEMALE MOLEX CONNECTOR	3-F-MOLEX		
J13	2-PIN MALE MOLEX MINI-LOCK CONECTOR	53375-0210		
J14	4-PIN FEMALE MOLEX CONNECTOR	4-F-MOLEX		
J40	5-PIN MALE MOLEX MINI-LOCK CONECTOR	53375-0510		
J43	5-PIN FEMALE MOLEX CONNECTOR	5-F-MOLEX		
PREPARED	J. COUCH	2022/02/18	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150	
CHECKED	J. COUCH	2022/03/14	TITLE WIRE HARNESS DIAGRAM	
ENGINEER			FILENAME: 1220.DWG	DWG NO: 1220

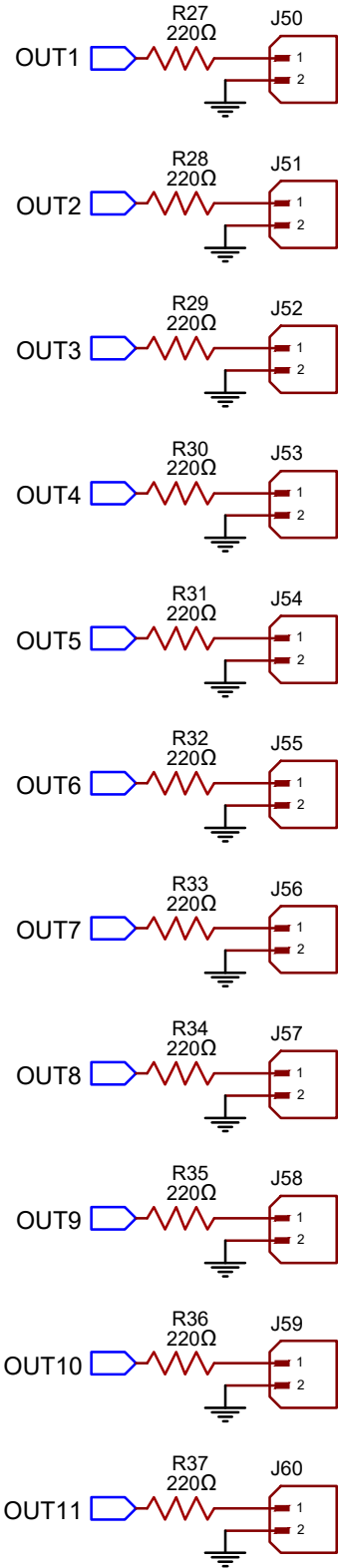
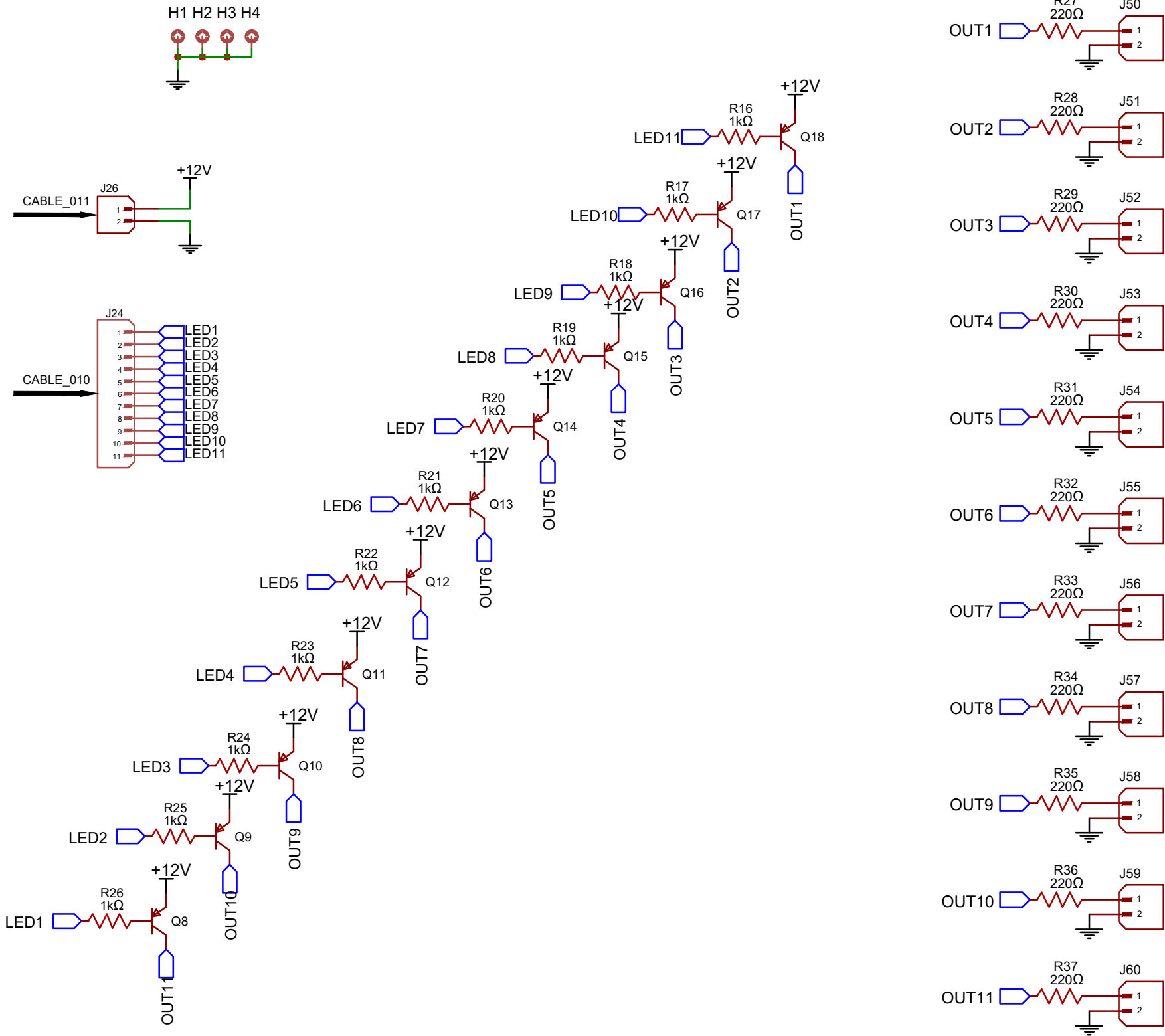
DWG NO. 1301		REVISIONS	
REV	DESCRIPTION	DATE	APPROVED
00	GATE 4 PRELIMINARY RELEASE	2/8/22	SM
01	GATE 5 PCB UPDATE	3/04/22	SM



BOTH SIDES OF PCB ARE SOLID
COPPER LAYER NET TIED TO GND

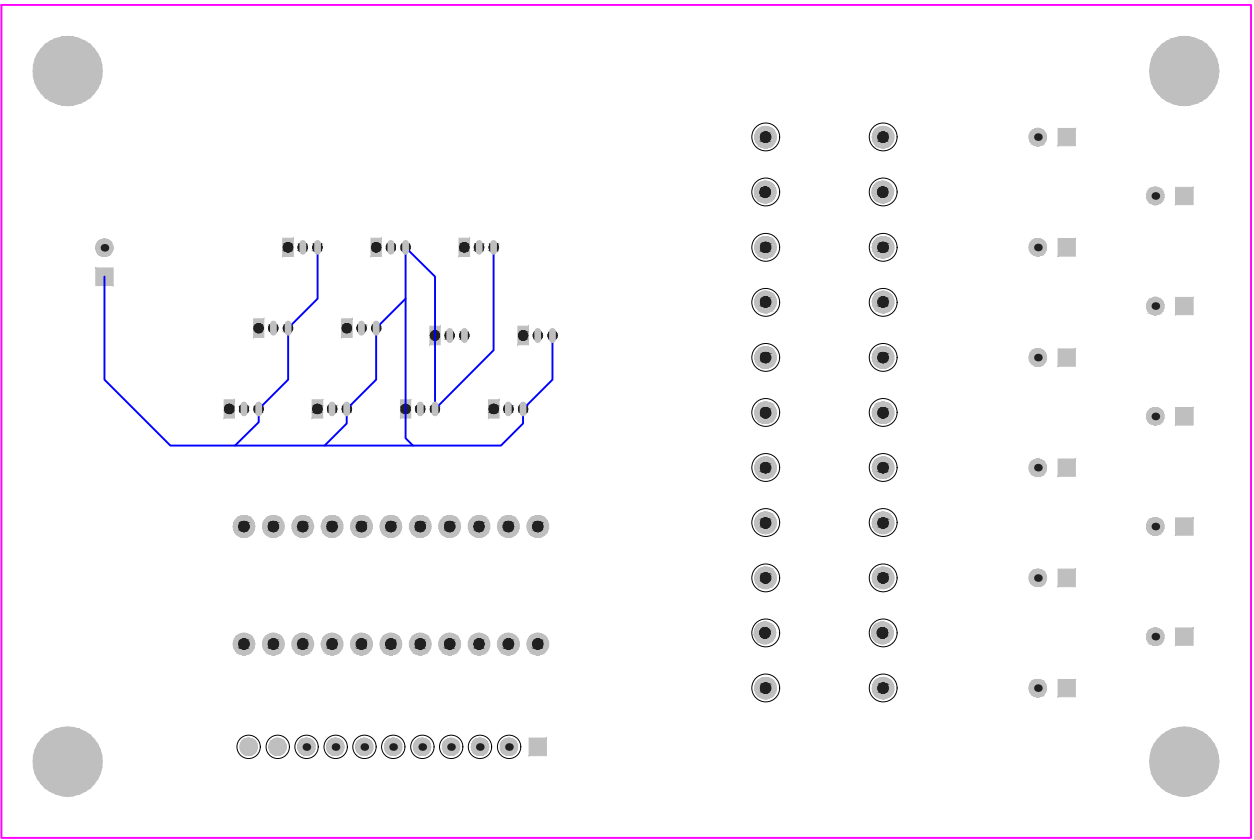
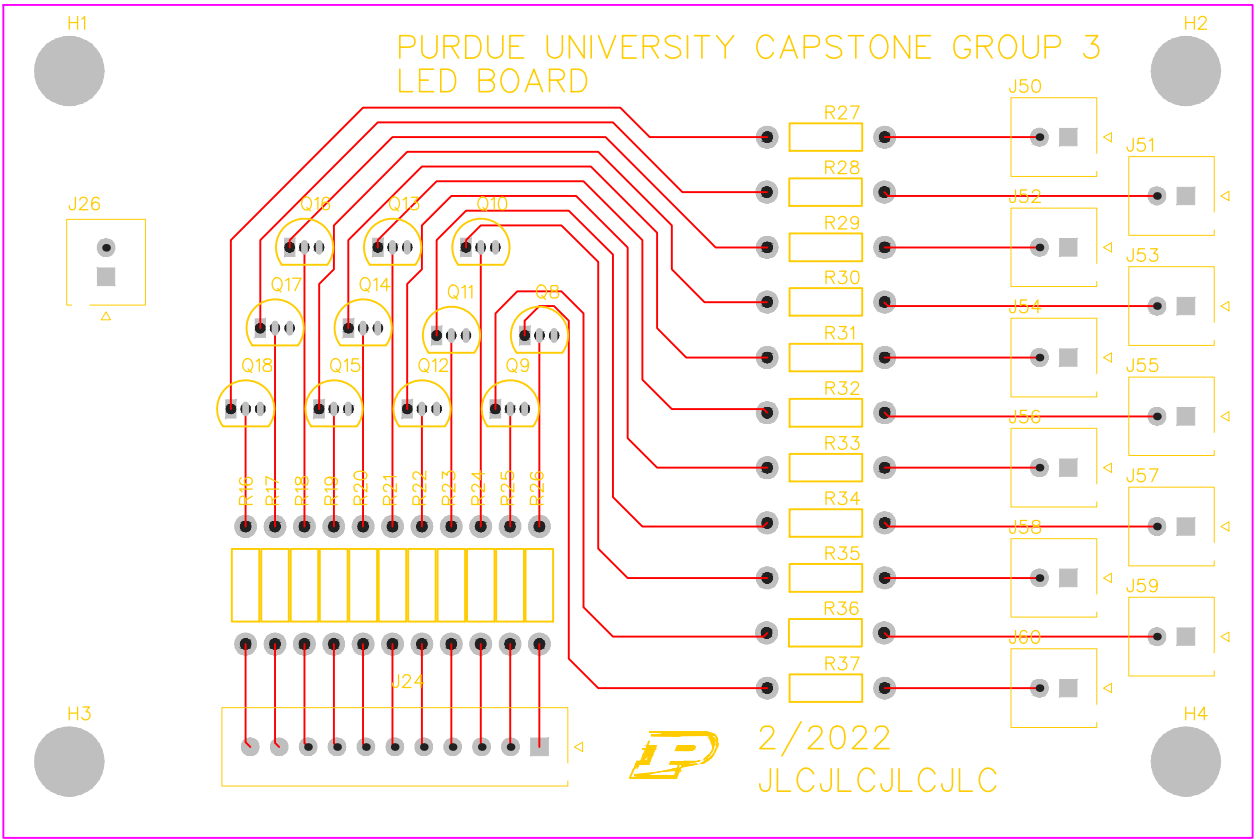
PREPARED	E. EICKHOLTZ	2022/02/24	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150	
CHECKED	S. MATTINGLY	2022/03/04	TITLE CUSTOM SEVEN SEGMENT DISPLAY LAYOUT	
ENGINEER			FILENAME: 1301.DWG	DWG NO. 1301

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	GATE 4 PRELIMINARY RELEASE	2/8/22	SM
01	GATE 5 PCB UPDATE	3/04/22	SM



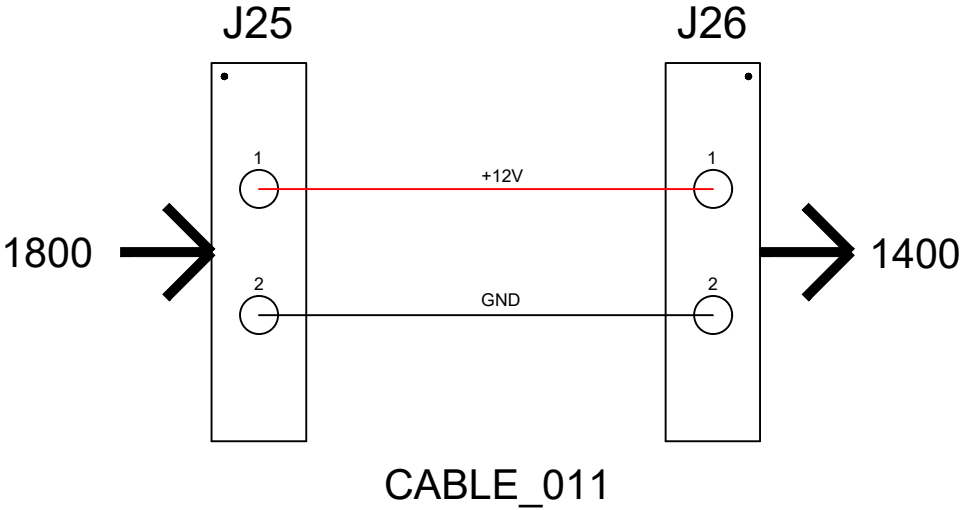
DWG 1400 BILL OF MATERIALS (BOM)				
IDENTIFIER	DESCRIPTION		PART #	
U10	CUSTOM JLC PCB		JLC03	
J26	CONN HEADER VERT 2POS 2.5MM		533750210	
J24	CONN HEADER VERT 11POS 2.5MM		533751110	
J50 -> J60	CONN HEADER VERT 2POS 2.5MM		533750210	
H1 -> H4	HEX STANDOFF THREADED M2.5		971050154	
Q8 -> Q18	TRANS PNP 40V 0.2A TO-92		2N3906	
R16 -> R26	RES 1 KOHMS 1/2W AXIAL		273-1.0K-RC	
R27 -> R37	RES 220 OHMS 1/2W AXIAL		HWCC122	
CABLE_010	REFERENCE DRAWING 1121			
CABLE_011	REFERENCE DRAWING 1420			
PREPARED	E. EICKHOLTZ	2021/02/24	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150	
CHECKED	S. MATTINGLY	2022/03/04	TITLE LED BOARD SCHEMATIC	
ENGINEER			FILENAME: 1400.DWG	DWG NO. 1400

1401			
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	GATE 4 PRELIMINARY RELEASE	2/8/22	SM
01	GATE 5 PCB UPDATE	3/04/22	SM



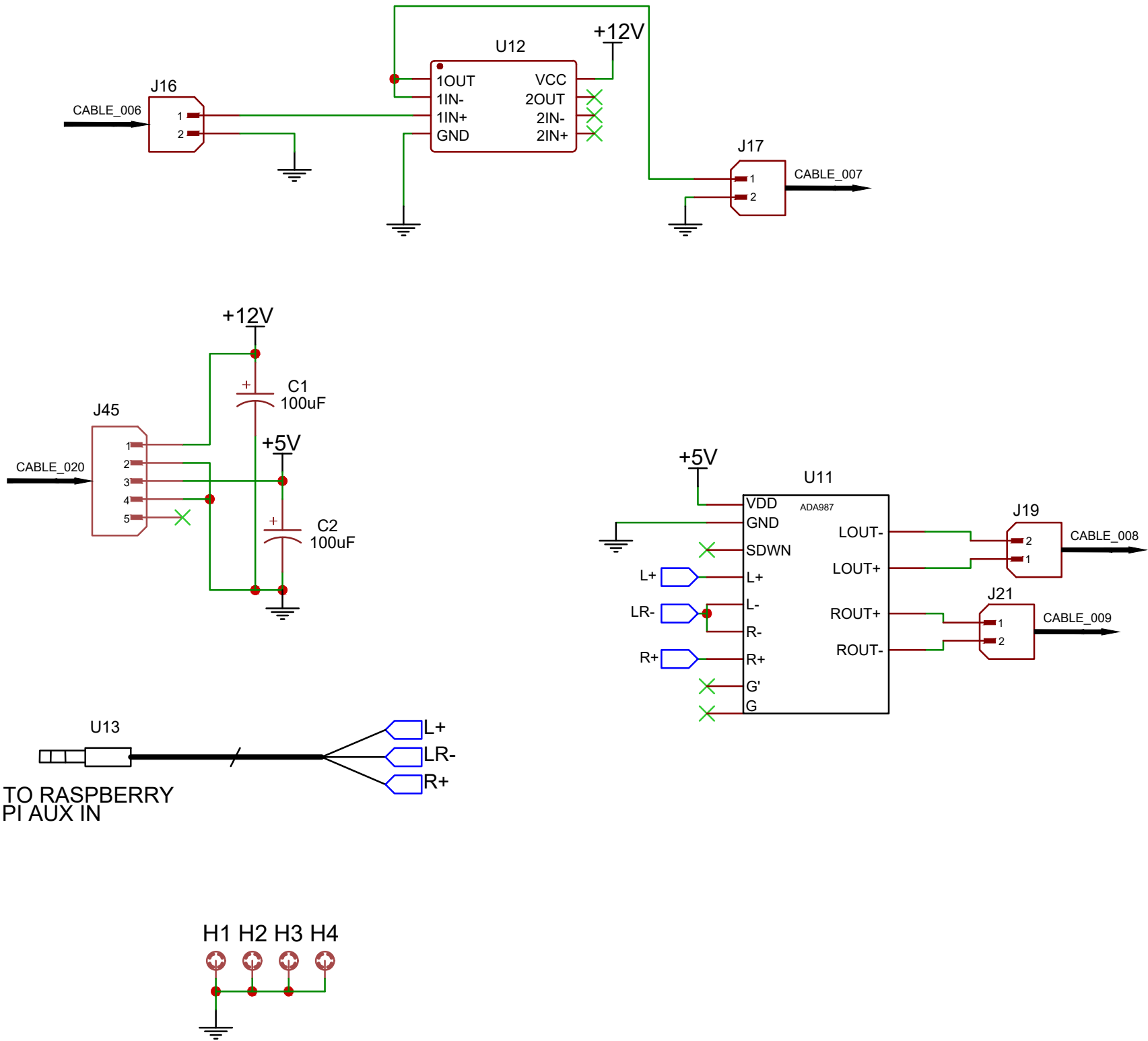
PREPARED	E. EICKHOLTZ	2021/02/24	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150	
CHECKED	S. MATTINGLY	2022/03/04	TITLE LED BOARD PCB LAYOUT	
ENGINEER			FILENAME: 1401.DWG	DWG NO. 1401

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	GATE 4 PRELIMINARY RELEASE	02/8/22	JDC
01	RENUMBERING SIGNAL PINS	02/18/22	JDC



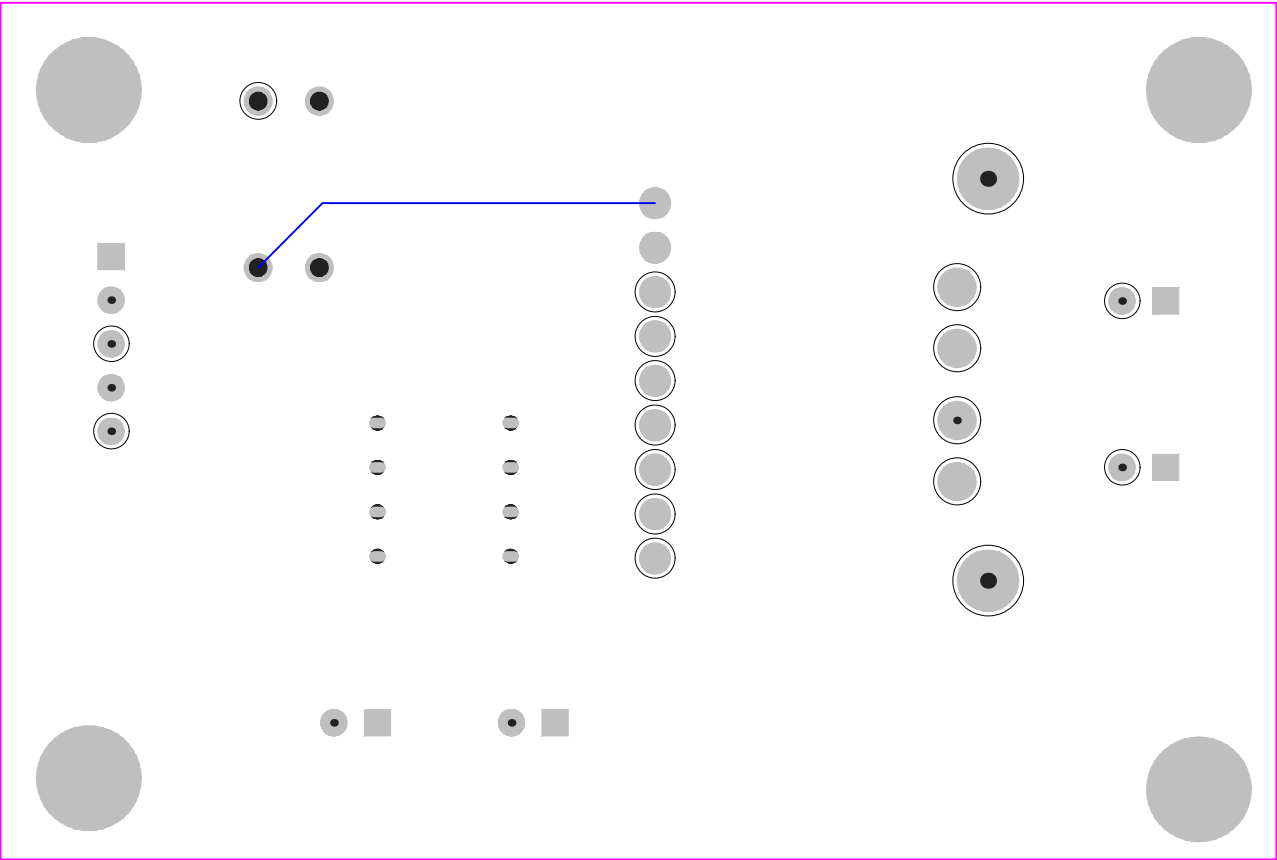
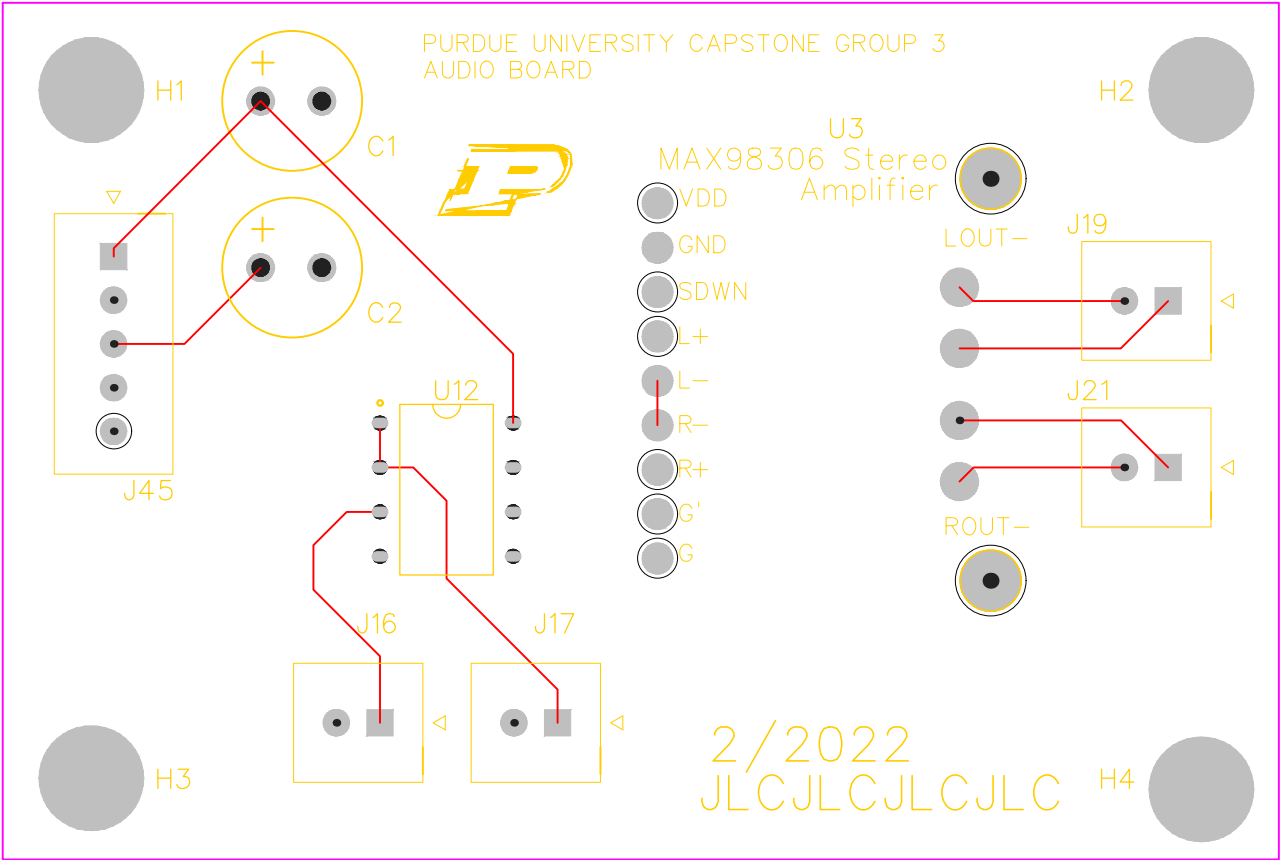
DWG 1420 BILL OF MATERIALS (BOM)				
IDENTIFIER	DESCRIPTION		PART #	
J25	2-PIN ON-BOARD MALE CRIMP CONNECTOR		53375-0210	
J26	2-PIN FEMALE MOLEX CONNECTOR		2-F-MOLEX	
PREPARED	J. COUCH	2022/02/18	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150	
CHECKED	S. MATTINGLY	2022/03/07	TITLE WIRE HARNESS DIAGRAM	
ENGINEER			FILENAME: 1420.DWG	DWG NO. 1420

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	GATE 4 PRELIMINARY RELEASE	2/8/22	SM
01	GATE 5 PCB UPDATE	3/04/22	SM



DWG 1500 BILL OF MATERIALS (BOM)				
IDENTIFIER	DESCRIPTION	PART #		
U11	AMP AUDIO 3.7W CLASS D	987		
U12	IC OPAMP GP 2 CIRCUIT 8DIP	LM358AN/NOPB		
U13	AUX CABLE TO BARE COPPER WIRES	AUX-01		
U14	CUSTOM JLC PCB	JLC04		
C1 & C2	CAP ALUM 100UF 20% 16V RADIAL	UPJ1C101MED1TD		
J16	CONNECTOR HEADER THROUGH HOLE 2 POSITION	533750210		
J17	CONNECTOR HEADER THROUGH HOLE 2 POSITION	533750210		
J19	CONNECTOR HEADER THROUGH HOLE 2 POSITION	533750210		
J21	CONNECTOR HEADER THROUGH HOLE 2 POSITION	533750210		
J45	CONNECTOR HEADER THROUGH HOLE 5 POSITION	533750510		
H1 -> H4	HEX STANDOFF THREADED M2.5	971050154		
CABLE_006	REFERENCE DRAWING 1121			
CABLE_007	REFERENCE DRAWING 1520			
CABLE_008	REFERENCE DRAWING 1520			
CABLE_009	REFERENCE DRAWING 1520			
CABLE_020	REFERENCE DRAWING 1520			
PREPARED		E. EICKHOLTZ	2021/02/24	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150
CHECKED		S. MATTINGLY	2022/03/04	TITLE AUDIO BOARD SCHEMATIC
ENGINEER				FILENAME: 1500.DWG DWG NO. 1500

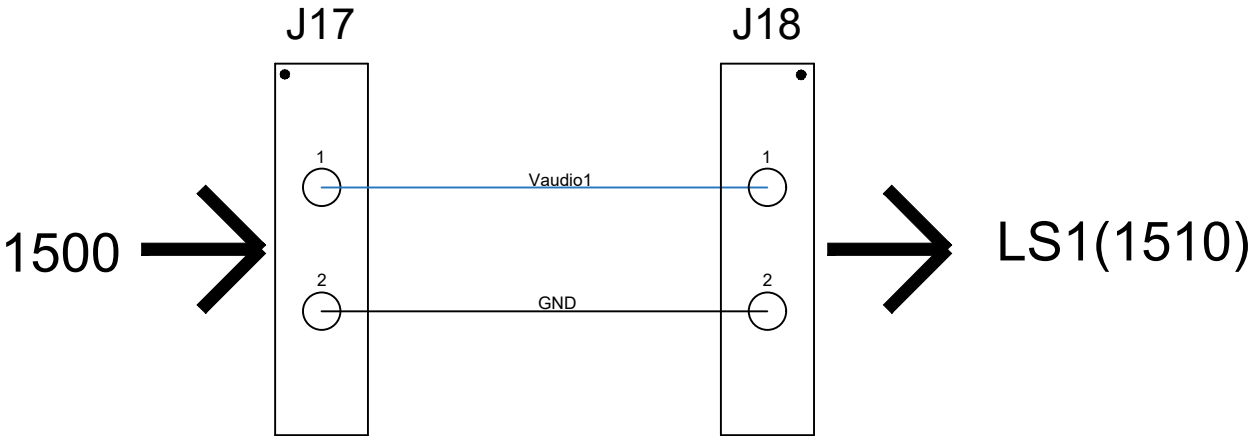
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	GATE 4 PRELIMINARY RELEASE	2/8/22	SM
01	GATE 5 PCB UPDATE	3/04/22	SM



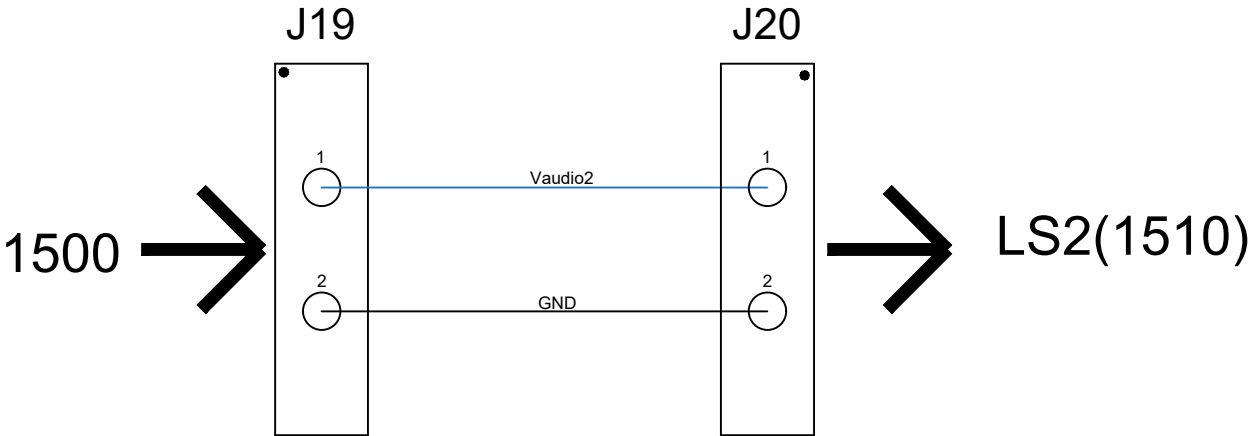
BOTH SIDES OF PCB ARE SOLID
COPPER LAYER NET TIED TO GND

PREPARED	E. EICKHOLTZ	2021/02/24	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150	
CHECKED	S. MATTINGLY	2022/03/04	TITLE AUDIO BOARD PCB LAYOUT	
ENGINEER			FILENAME: 1501.DWG	DWG NO. 1501

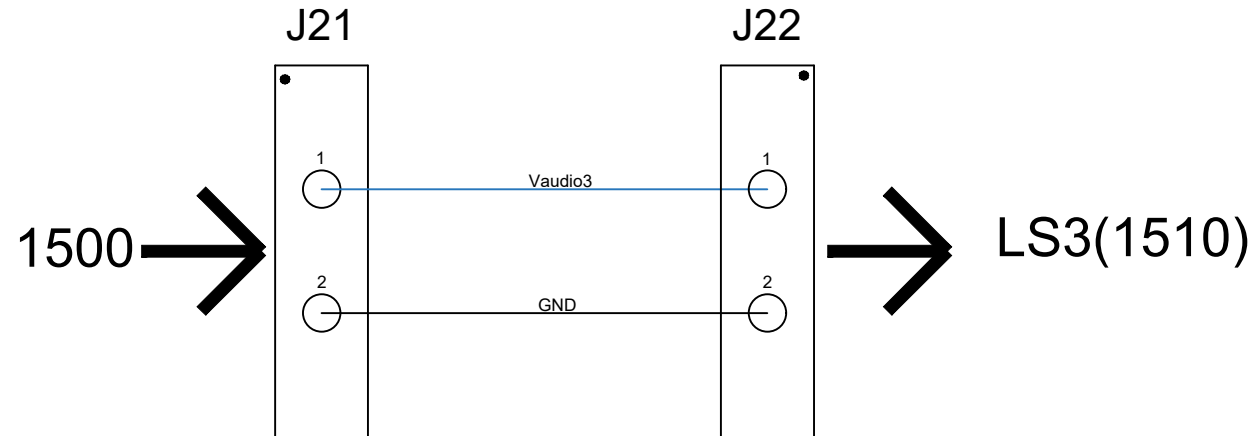
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	GATE 4 PRELIMINARY RELEASE	02/8/22	JDC
01	RENUMBERING SIGNAL PINS	02/18/22	JDC



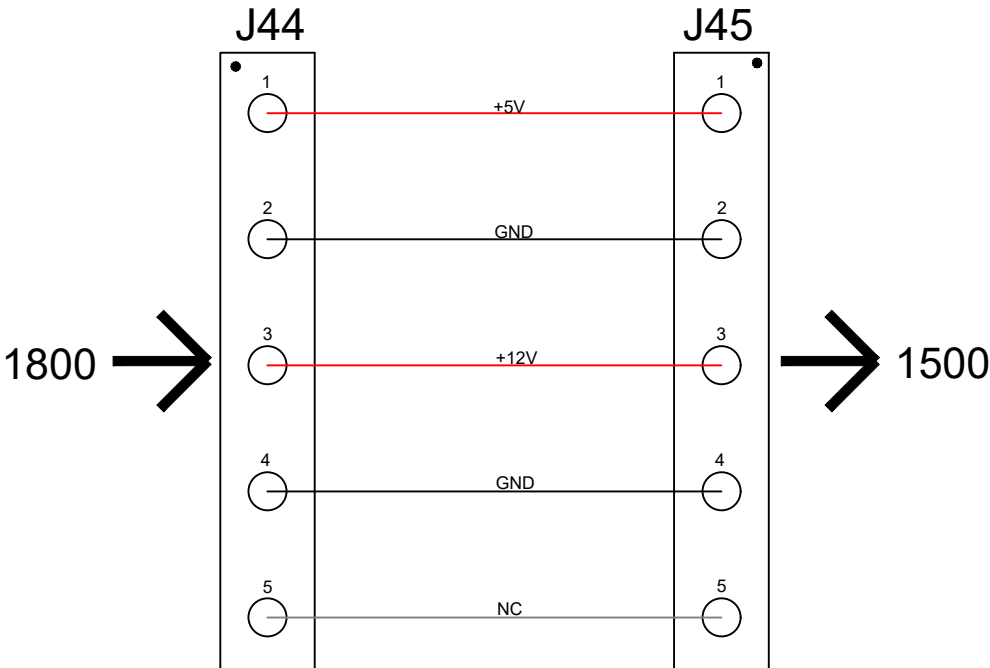
CABLE_007



CABLE_008



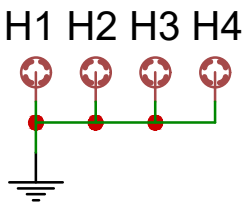
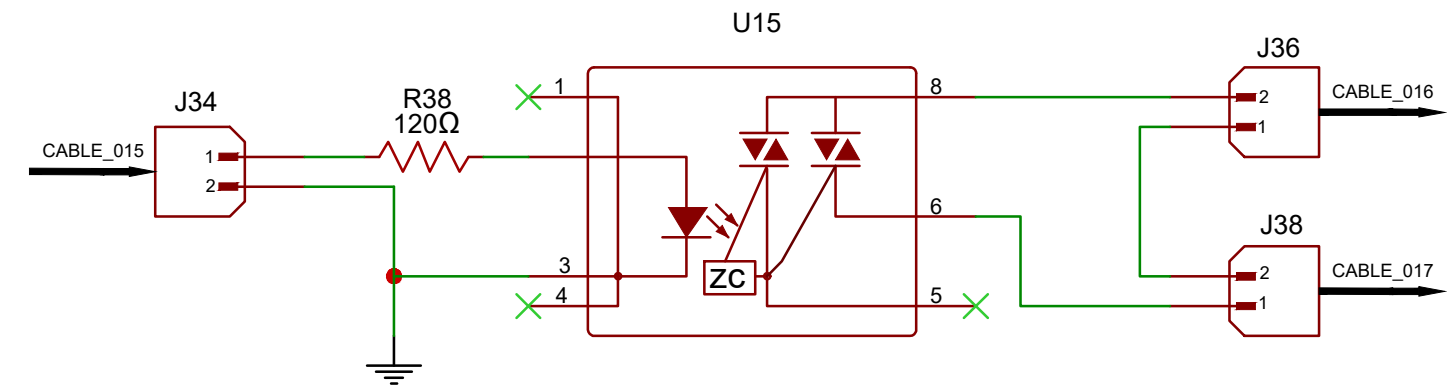
CABLE_009



CABLE_020

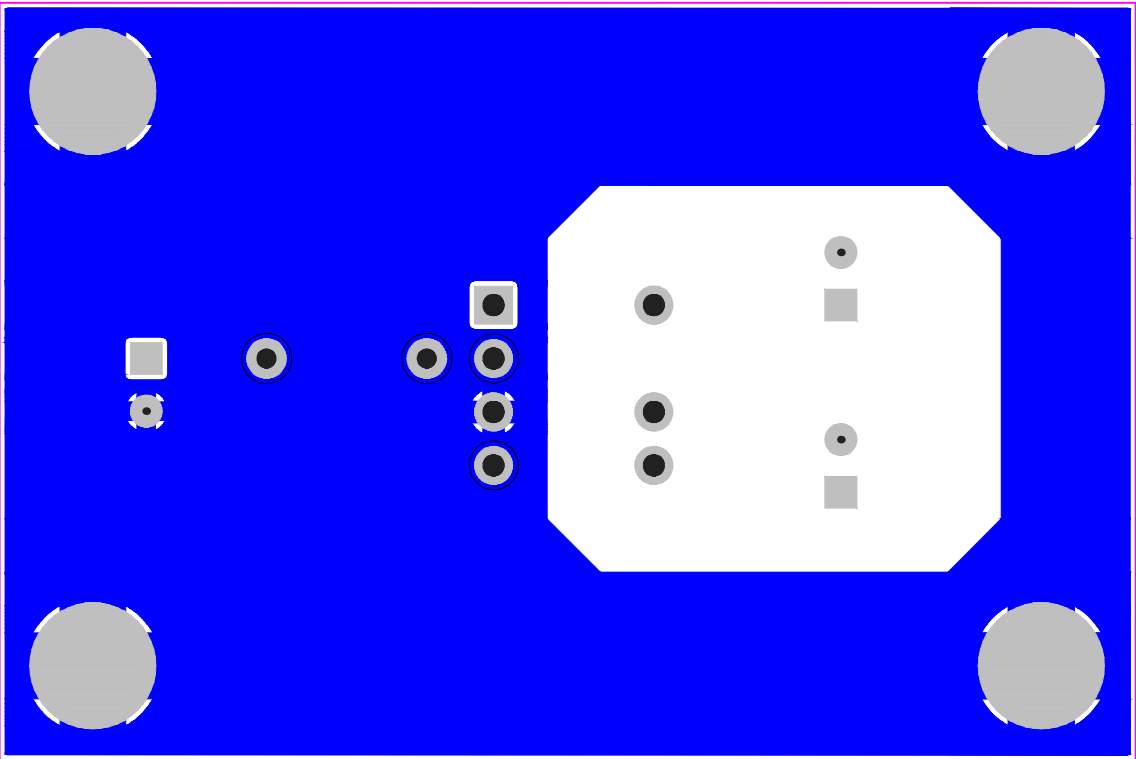
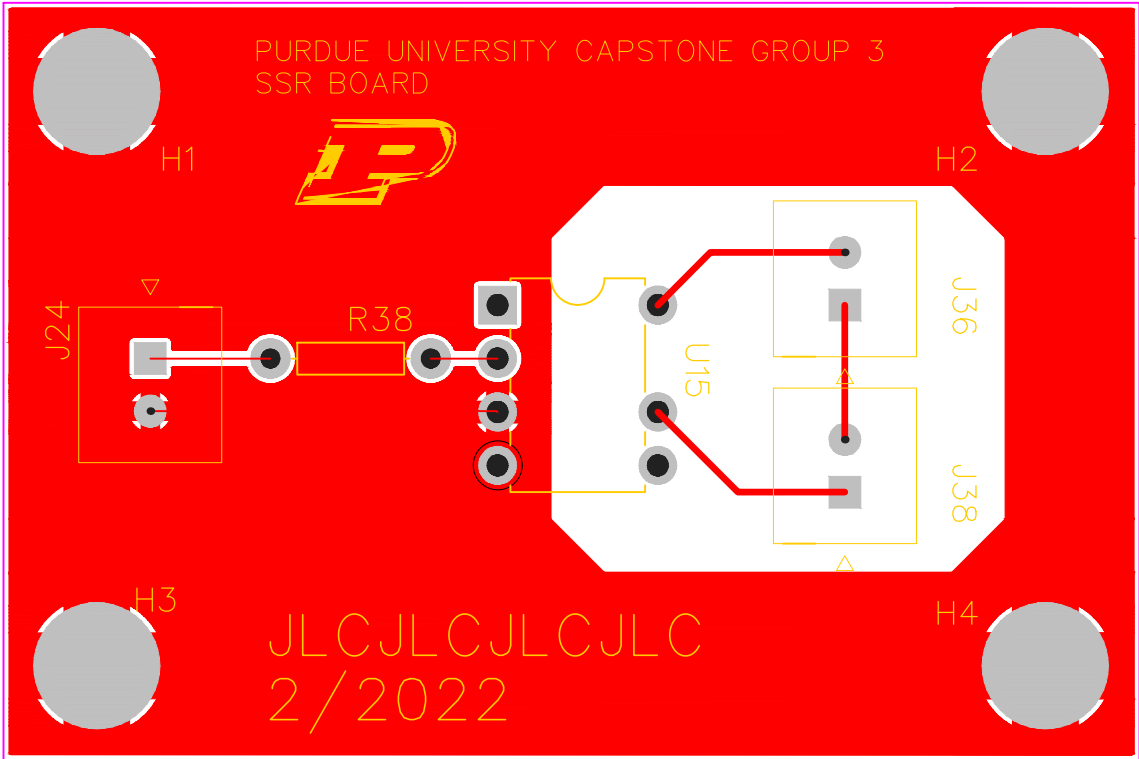
DWG 1520 BILL OF MATERIALS (BOM)				
IDENTIFIER	DESCRIPTION		PART #	
J17	2-PIN ON-BOARD MALE CRIMP CONNECTOR		53375-0210	
J18	2-PIN FEMALE MOLEX CONNECTOR		2-F-MOLEX	
J19	2-PIN ON-BOARD MALE CRIMP CONNECTOR		53375-0210	
J20	2-PIN FEMALE MOLEX CONNECTOR		2-F-MOLEX	
J21	2-PIN ON-BOARD MALE CRIMP CONNECTOR		53375-0210	
J22	2-PIN FEMALE MOLEX CONNECTOR		2-F-MOLEX	
J44	5-PIN ON-BOARD MALE CRIMP CONNECTOR		53375-0510	
J45	5-PIN FEMALE MOLEX CONNECTOR		5-F-MOLEX	
PREPARED	J. COUCH	2022/02/18	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150	
CHECKED	S. MATTINGLY	2022/03/07	TITLE WIRE HARNESS DIAGRAM	
ENGINEER			FILENAME: 1520.DWG	DWG NO. 1520

1600			
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	GATE 4 PRELIMINARY RELEASE	2/8/22	SM
01	GATE 5 PCB UPDATE	3/04/22	SM



DWG 1600 BILL OF MATERIALS (BOM)				
IDENTIFIER	DESCRIPTION		PART #	
U15	SOLID STATE RELAY		AQH3213	
U16	CUSTOM JLC PCB		JLC04	
R38	RES 120 OHM 1% 0.6W AXIAL		LR1F120R	
J34	CONNECTOR HEADER THROUGH HOLE 2 POSITION		533750210	
J36	CONNECTOR HEADER THROUGH HOLE 2 POSITION		533750210	
J38	CONNECTOR HEADER THROUGH HOLE 2 POSITION		533750210	
H1 -> H4	HEX STANDOFF THREADED M2.5		971050154	
CABLE_015	REFERENCE DRAWING 1122			
CABLE_016	REFERENCE DRAWING 1620			
CABLE_017	REFERENCE DRAWING 1620			
PREPARED	E. EICKHOLTZ	2021/02/24	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150	
CHECKED	S. MATTINGLY	2022/03/04	TITLE SSR BOARD SCHEMATIC	
ENGINEER			FILENAME: 1600.DWG	DWG NO. 1600

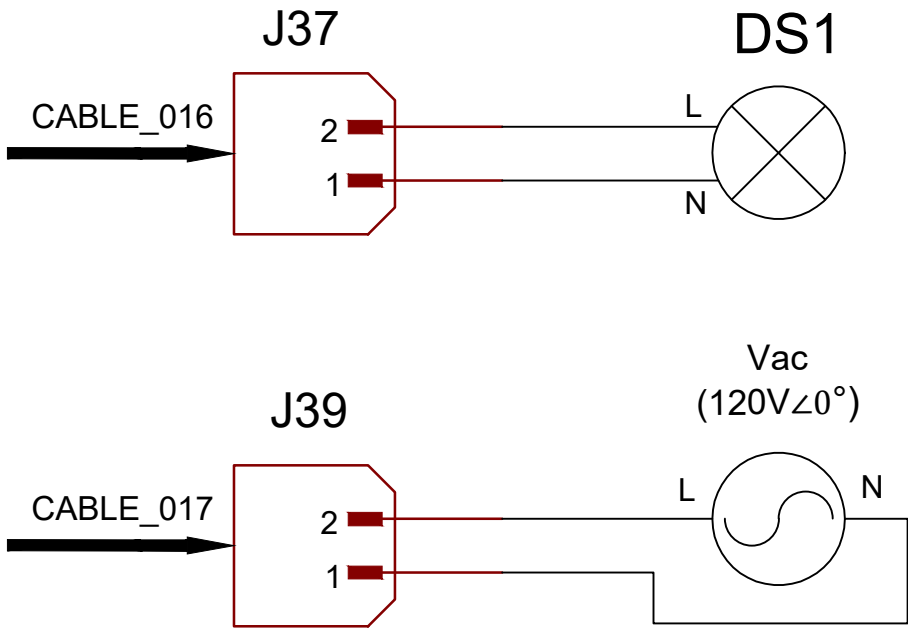
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	GATE 4 PRELIMINARY RELEASE	2/8/22	SM
01	GATE 5 PCB UPDATE	3/04/22	SM



BOTH SIDES OF PCB ARE SOLID
COPPER LAYER NET TIED TO GND

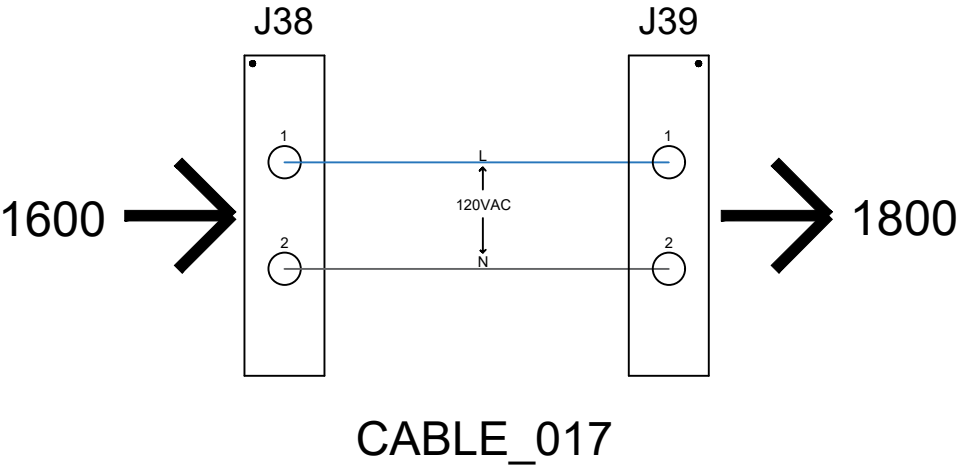
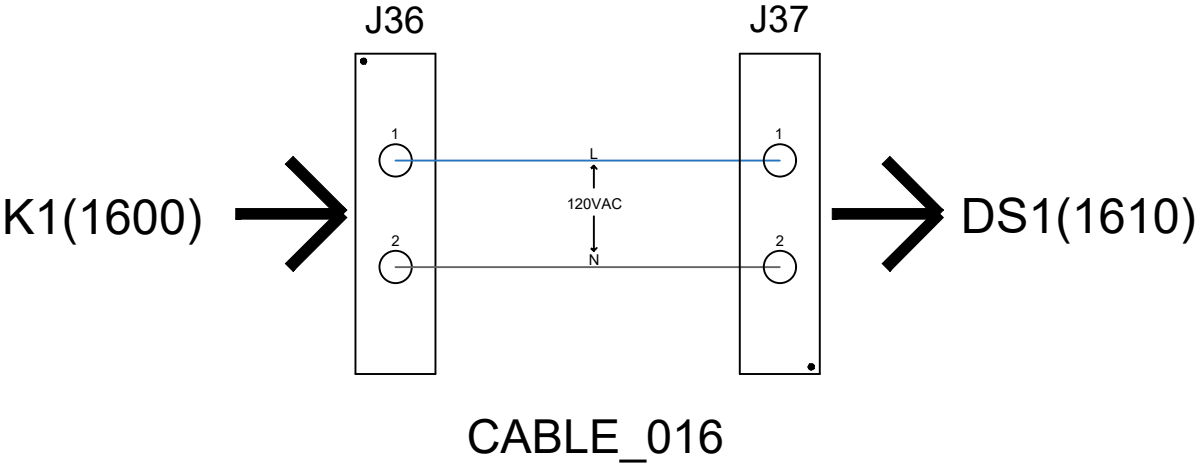
PREPARED	E. EICKHOLTZ	2021/02/24	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150	
CHECKED	S. MATTINGLY	2022/03/04	TITLE SSR PCB LAYOUT	
ENGINEER			FILENAME 1601.DWG	DWG NO. 1601

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	GATE 5 LAMP & SSR ENDPOINT	03/13/22	SDM
01	UPDATED BOM FOR MATERIALS	03/14/22	SDM



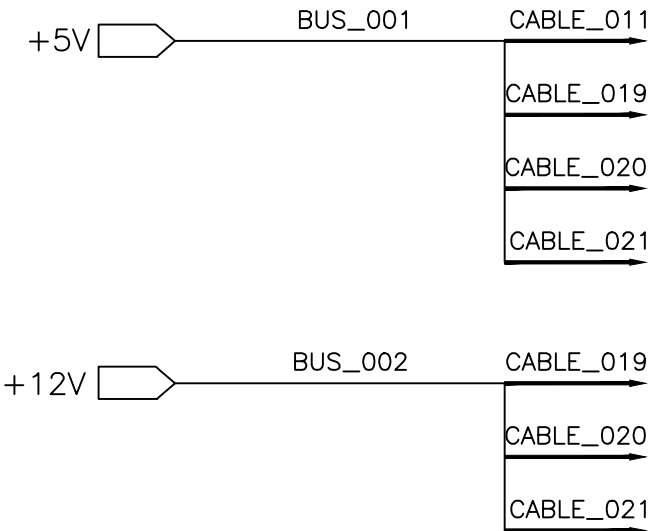
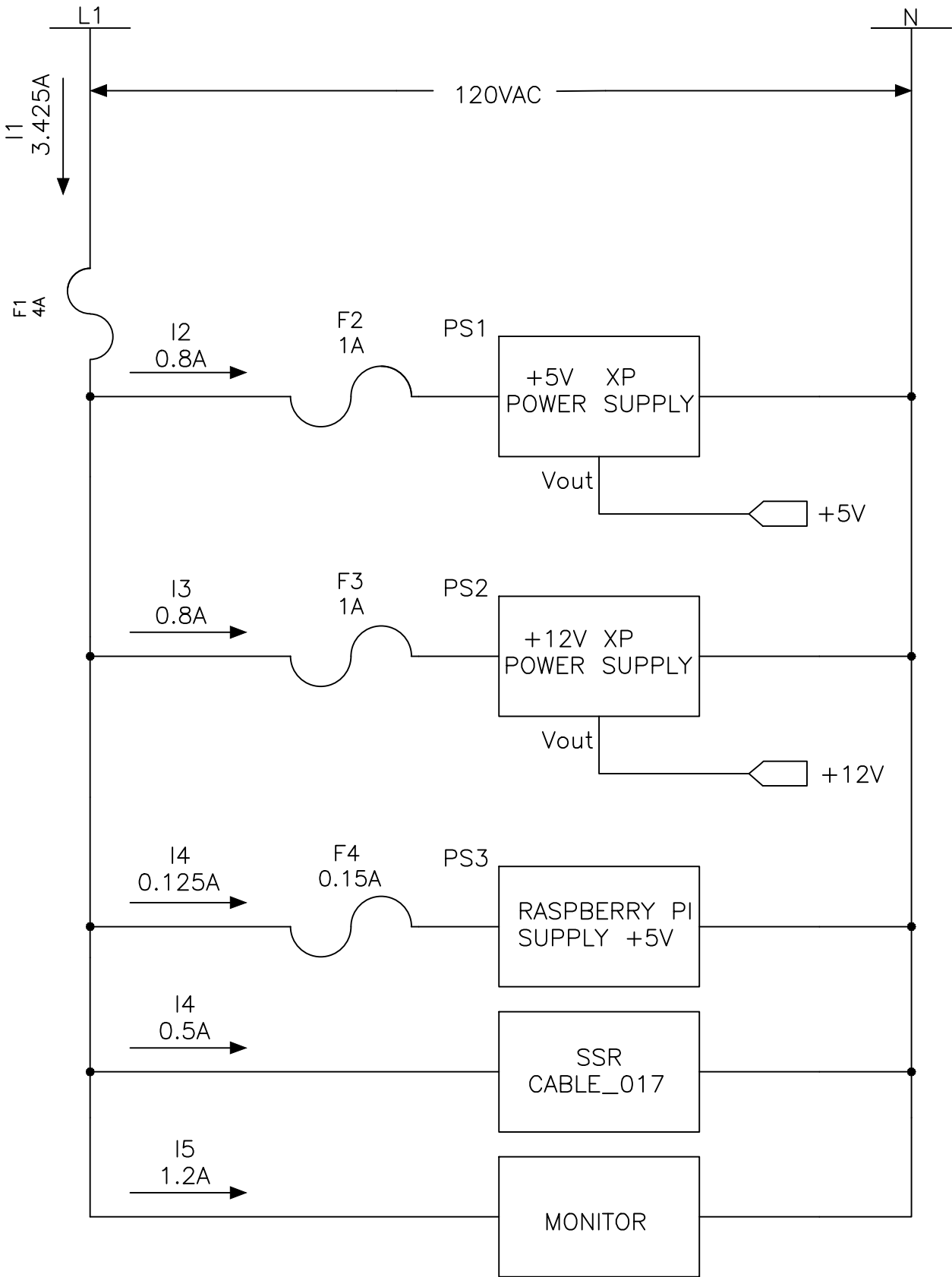
DWG 1610 BILL OF MATERIALS (BOM)				
IDENTIFIER	DESCRIPTION		PART #	
J37	2-PIN MALE MOLEX CONNECTOR		2-M-MOLEX	
DS1	60W LED LIGHT-BULB		LED-60	
CABLE_016	REFERENCE DRAWING 1620			
CABLE_017	REFERENCE DRAWING 1620			
PREPARED	S. MATTINGLY	2022/02/09	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150	
CHECKED	J. COUCH	2022/03/15	TITLE SSR OFF-BOARD COMPONENTS	
ENGINEER			FILENAME: 1610.SSR	DWG NO. 1610

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	GATE 4 PRELIMINARY RELEASE	02/8/22	JDC
01	RENUMBERING SIGNAL PINS	02/18/22	JDC



DWG 1620 BILL OF MATERIALS (BOM)				
IDENTIFIER	DESCRIPTION		PART #	
J36	2-PIN ON-BOARD MALE CRIMP CONNECTOR		53375-0210	
J37	2-PIN FEMALE MOLEX CONNECTOR		2-F-MOLEX	
J38	2-PIN ON-BOARD MALE CRIMP CONNECTOR		53375-0210	
J39	2-PIN FEMALE MOLEX CONNECTOR		2-F-MOLEX	
PREPARED	J. COUCH	2022/02/18	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150	
CHECKED	S. MATTINGLY	2022/03/07	TITLE WIRE HARNESS DIAGRAM	
ENGINEER			FILENAME: 1620.DWG	DWG NO. 1620

DWG 1800			
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	GATE 4 PRELIMINARY RELEASE	02/09/22	JDC
01	RENUMBERING SIGNAL PINS	02/18/22	JDC
02	ADDING CABLE NUMBERS AND BUS	03/14/22	SDM



DWG 1800 BILL OF MATERIALS (BOM)				
IDENTIFIER	DESCRIPTION	PART #		
CABLE_017	REFERENCE DRAWING 1620			
Monitor	HP DESKTOP MONITOR	L1702		
PS1	XP POWER +5V POWER SUPPLY	LCW35US05		
PS2	XP POWER +12V POWER SUPPLY	LCW35US12		
PS3	+5 RASPBERRY PI POWER SUPPLY	KSA-15E-051300HU		
F1	BEL FUSE 4A FUSE RATED	5TT 4-R		
F2	LITTLEFUSE 1A FUSE RATED	0232001.MX125P		
F3	LITTLEFUSE 1A FUSE RATED	0232001.MX125P		
F4	LITTLEFUSE 0.15A FUSE RATED	0239.150MXP		
BUS_001	PHOENIX CONTACT TERMINAL BLOCK	UT 2,5-QUATTRO		
BUS_002	PHOENIX CONTACT TERMINAL BLOCK	UT 2,5-QUATTRO		
CABLE_011	REFERENCE DRAWING 1420			
CABLE_019	REFERENCE DRAWING 1220			
CABLE_020	REFERENCE DRAWING 1520			
CABLE_021	REFERENCE DRAWING 1123			
PREPARED	J. COUCH	2022/02/18	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150	
CHECKED	S. MATTINGLY	2022/03/14	TITLE 120V SOURCE SCHEMATIC	
ENGINEER			FILENAME: 1800.DWG	DWG NO. 1800