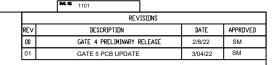
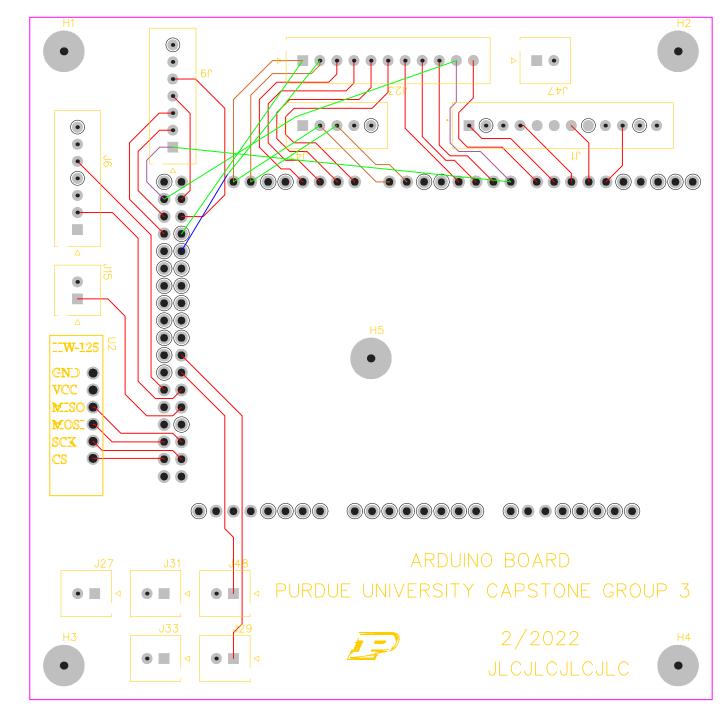
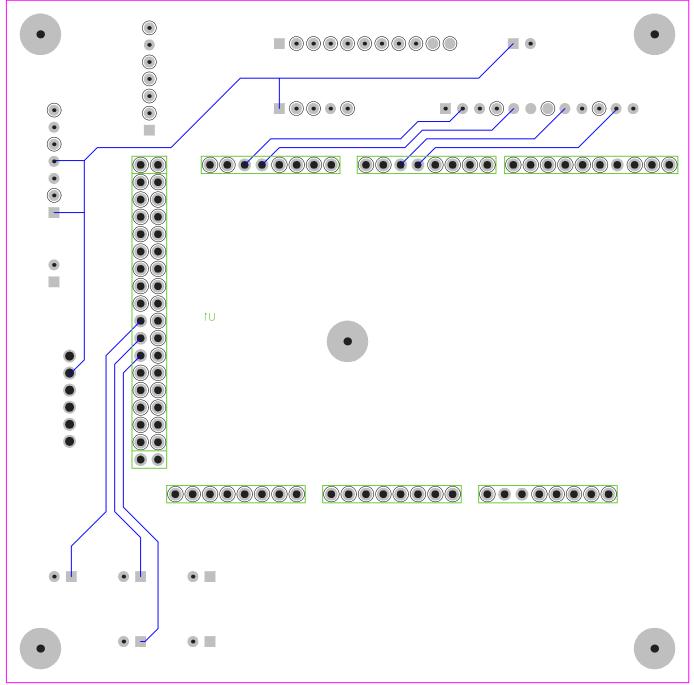


DWG 1100 BILL OF MATERIALS (BOM)						
IDENTIFIER	DESC	RIPTION	F	ART #		
U1	ARDU	INO MEGA 2560 ATMEG	A2560	A	000067	
U2	MICR	O-SD CARD MODULE FO	R ARDUINO	Г)FR0229	
J1	CON	N HEADER VERT 12POS 2.	5MM	5	33751210	
J23	CON	N HEADER VERT 11POS 2.	5MM	5	33751110	
16	CON	N HEADER VERT 7POS 2.5	MM	5	33750710	
19	CON	N HEADER VERT 7POS 2.5	MM	5	33750710	
J41	CON	N HEADER VERT 5POS 2.5	MM	5	33750510	
J15	CON	N HEADER VERT 2POS 2.5	MM	5	33750210	
J47	CON	N HEADER VERT 2POS 2.5	MM	5	33750210	
J27	CON	N HEADER VERT 2POS 2.5	MM	5	33750210	
J29	CON	N HEADER VERT 2POS 2.5	MM	5	33750210	
J31	CON	N HEADER VERT 2POS 2.5	MM	5	33750210	
J48	CON	N HEADER VERT 2POS 2.5	MM	5	33750210	
J33	CON	N HEADER VERT 2POS 2.5	MM	5	33750210	
H1	HEX S	TANDOFF THREADED M2	2.5	9	71050154	
H2	HEX S	TANDOFF THREADED M2	2.6	971050154		
Н3	HEX S	TANDOFF THREADED M2	2.7	971050154		
H4	HEX S	TANDOFF THREADED M2	2.8	971050154		
U3	CUST	OM JLC PCB		J	LC01	
CABLE_001	REFFE	RENCE DRAWING 1120				
CABLE_002	REFFE	RENCE DRAWING 1120				
CABLE_003	REFFE	RENCE DRAWING 1120				
CABLE_006	REFFE	RENCE DRAWING 1121				
CABLE_010	REFFE	RENCE DRAWING 1121				
CABLE_012	REFFE	RENCE DRAWING 1121				
CABLE_013	REFFE	RENCE DRAWING 1122				
CABLE_014	REFFE	RENCE DRAWING 1122				
CABLE_015	REFFE	RENCE DRAWING 1122				
CABLE_018	REFFE	RENCE DRAWING 1122				
CABLE_021	REFFE	RENCE DRAWING 1123				
CABLE_022	REFFE	RENCE DRAWING 1123				
PREPARED E. EICKHOLTZ 2021/02/24		PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150				
CHECK	CHECKED J. COUCH 2021/03/14		TITLE ARDUINE	SHIELD SCHEMATIC		
ENGINEER				FILENAME: 1100.DWG	DVG ND. 1100	





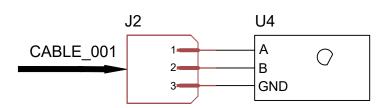


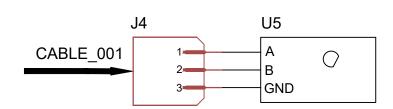
 TOP LAYER TRACE
 BOTTOM LAYER TRACE
 COPPER LAYER CUT TRACE
EXTERNAL WIRE

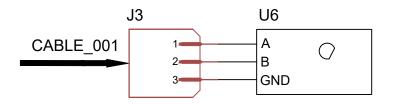
BOTH SIDES OF PCB ARE SOLID COPPER LAYER NET TIED TO GND

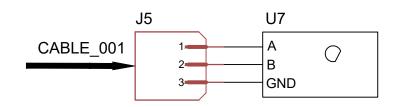
PREPARED	E. EICKHOLTZ	2021/02/24	3000 TECH	HNIC NEW ALBANY NDLDGY AVE IY, IN 47150
CHECKED	S. MATTINGLY	2022/03/04	ARDUINO N PCB L	MEGA 2560 AYOUT
ENGINEER			filename 1101.DWG	DVG ND. 1101

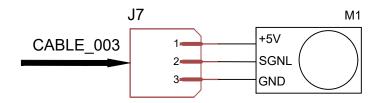
	1110			
	REV	REVISIONS		
RE✓	DESCRIPTION	DATE	APPROVED	
00	GATE 5 ARDUIND ENDP	DINTS 03/13/22	SDM	
01	UPDATED BOM FOR MAT	ERIALS 03/14/22	SDM	

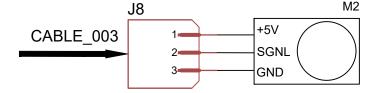






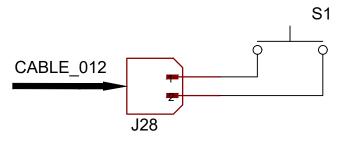


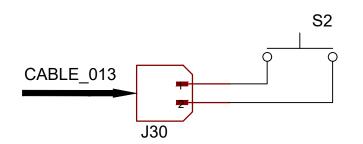


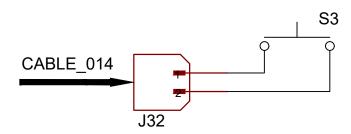


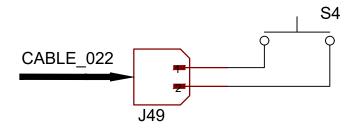
DWG 1110 BILL OF MATERIALS (BOM)					
IDENTIFIER	DESCRIPTION		PART #		
M1	ADAFRUIT SERVO	MOTOR	154		
M2	ADAFRUIT SERVO	MOTOR	154		
U4	CTS ELECTRONICS	ROTARY ENCOD	ER 288T232	R161A1	
U5	CTS ELECTRONICS	ROTARY ENCOD	ER 288T232	R161A1	
U6	CTS ELECTRONICS	ROTARY ENCOD	ER 288T232	R161A1	
U7	CTS ELECTRONICS	ROTARY ENCOD	ER 288T232	R161A1	
J2	3-PIN MALE MOLE	EX CONNECTOR	3-M-MO	LEX	
13	3-PIN MALE MOLE	EX CONNECTOR	3-M-MO	LEX	
J4	3-PIN MALE MOLE	EX CONNECTOR	3-M-MO	LEX	
J5	3-PIN MALE MOLE	EX CONNECTOR	3-M-MO	LEX	
J7	3-PIN MALE MOLE	EX CONNECTOR	3-M-MO	LEX	
18	3-PIN MALE MOLE	EX CONNECTOR	3-M-MO	LEX	
CABLE_001	REFFERENCE DRAWING 1120				
CABLE_003	REFFERENCE DRA	WING 1120	.		
PREPARED	S. MATTINGLY	2022/03/13	3000 TECH	CHNIC NEW ALBANY NDLDGY AVE NY, IN 47150	
CHECKED	Ј. СПИСН	2022/03/15	ARDUINO OFF-BOARD	MEGA 2560 COMPONENTS	
ENGINEER			FILENAME: 1110.ARDUINO	DVG ND. 1110	

	DATE HE	1111			
			REVISIONS		
REV		DESCRIPTION		DATE	APPROVED
00		GATE 5 ARDUINO	ENDPOINTS	03/13/22	MUS
01		UPDATED BOM FO	r materials	03/14/22	SDM

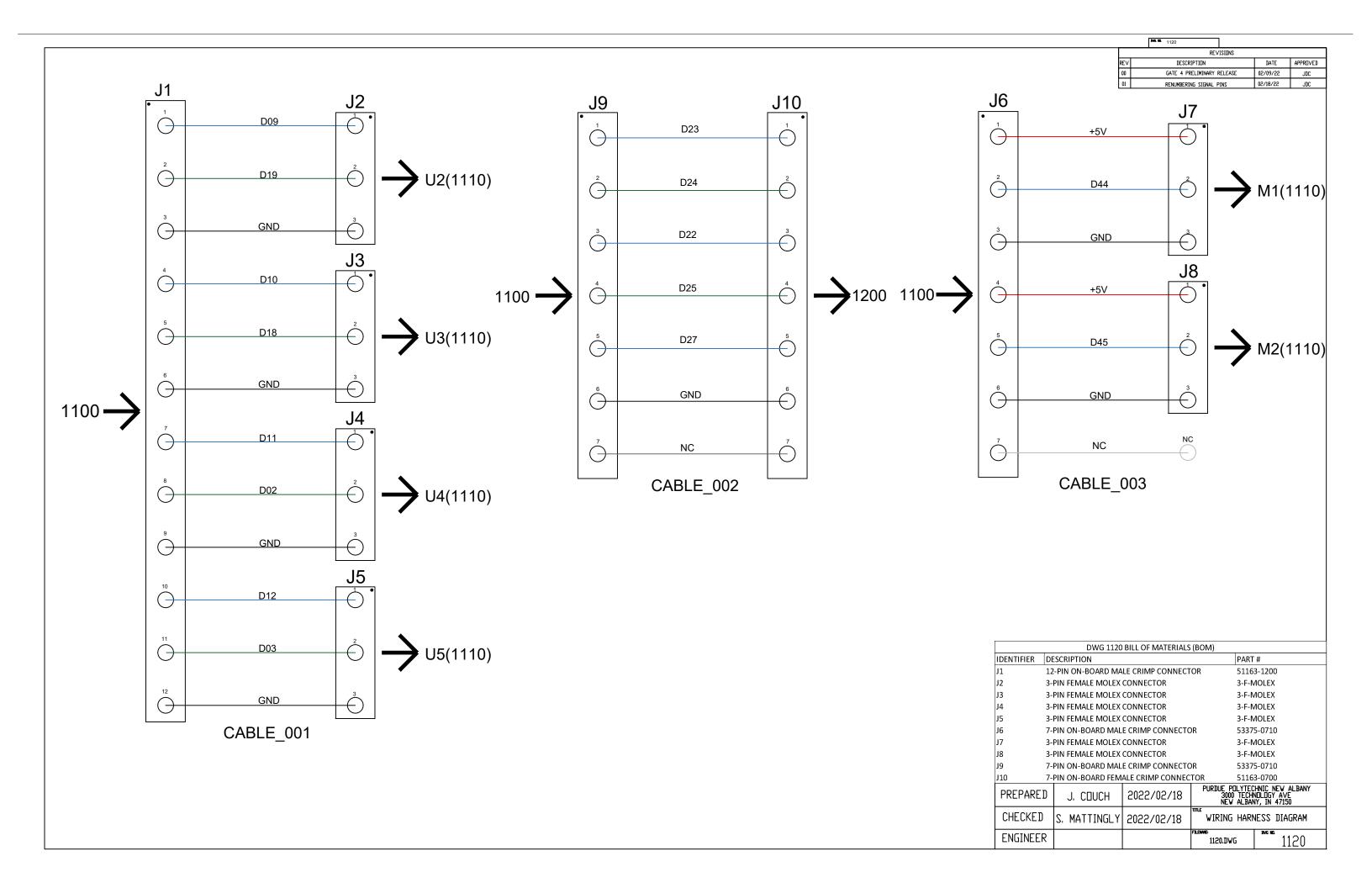


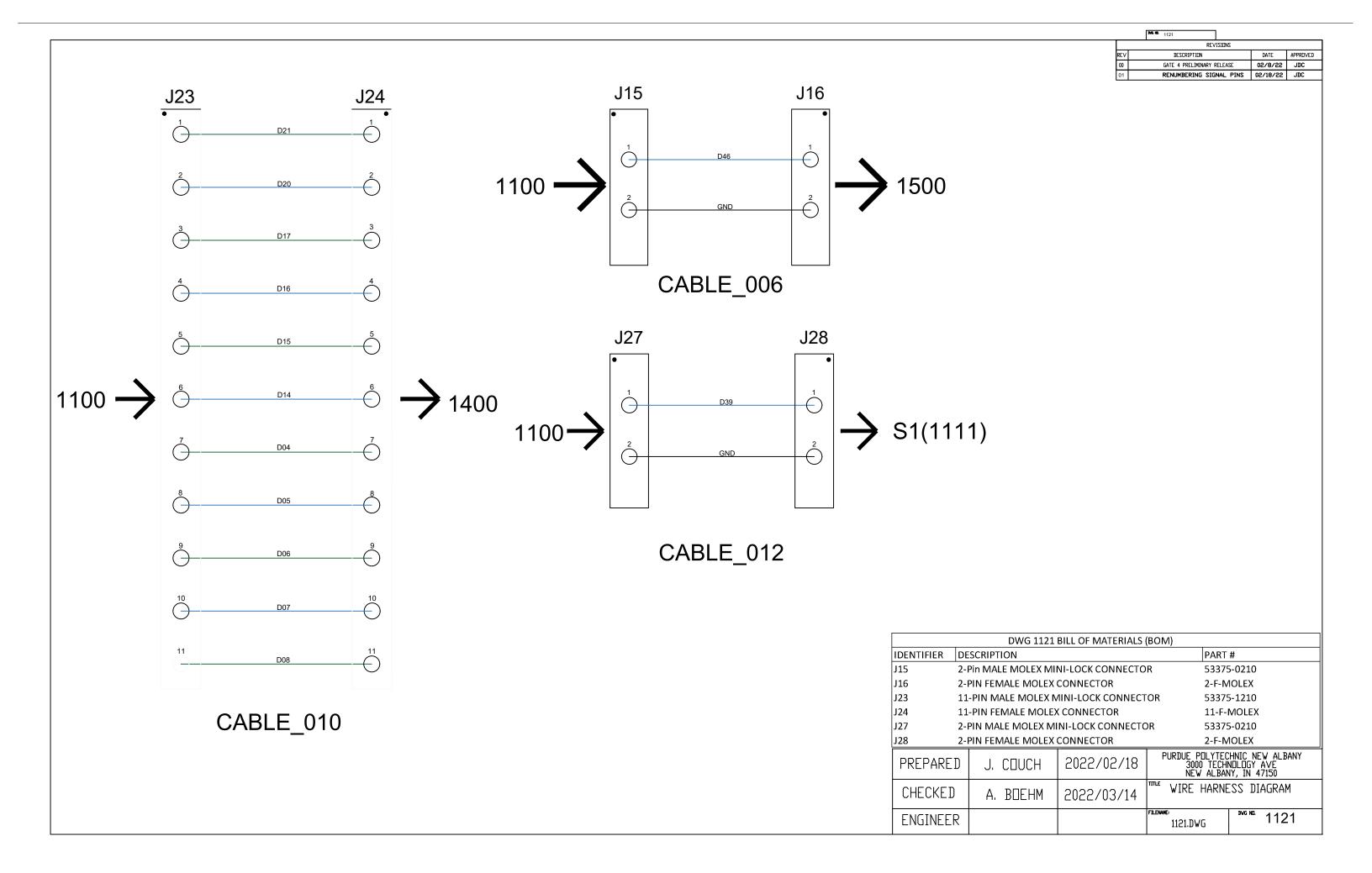


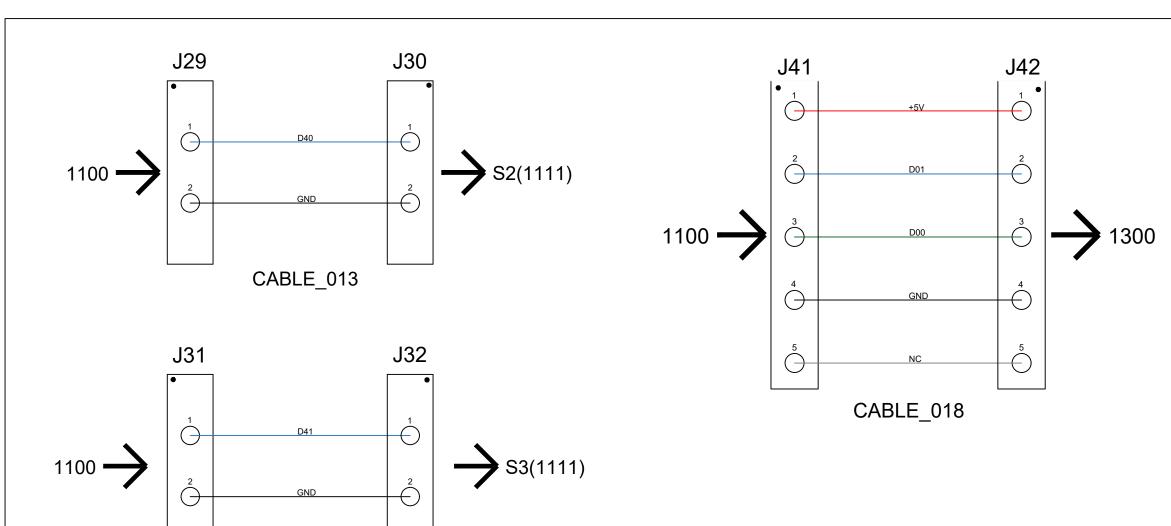




DWG 1111 BILL OF MATERIALS (BOM)					
IDENTIFIER	DESCRIPTION		PART #		
J28	2-PIN MALE MOL	EX CONNECTOR	2-M-MOI	_EX	
J30	2-PIN MALE MOL	EX CONNECTOR	2-M-MOI	_EX	
J32	2-PIN MALE MOL	EX CONNECTOR	2-M-MOI	_EX	
J49	2-PIN MALE MOL	EX CONNECTOR	2-M-MOI	_EX	
S1	NO-PUSH BUTTON	N	PB-001		
S2	NO-PUSH BUTTON	N	PB-002		
S3	NO-PUSH BUTTON	N	PB-003		
S4	NO-PUSH BUTTON	N	PB-004		
CABLE_012	REFFERENCE DRAY	WING 1121			
CABLE_013	REFFERENCE DRAY	WING 1122			
CABLE_014	REFFERENCE DRAWING 1122				
CABLE_022	REFFERENCE DRAY	WING 1123			
PREPARED	S. MATTINGLY	2022/03/13	3000 TECHI	HNIC NEW ALBANY NDLDGY AVE NY, IN 47150	
CHECKED	J. C□UCH	2022/03/15	OFF-BOARD	MEGA 2560 COMPONENTS	
ENGINEER			FILENAME: 1111.ARDUINO	DVG NO. 1111	







CABLE_014

CABLE_015

J34

J33

1100

DWG 1122 BILL OF MATERIALS (BOM)					
IDENTIFIER	DESCI	RIPTION		PART #	
J29	2-PIN	ON-BOARD MALE CRIM	P CONNECTOR	53375-0210	
J30	2-PIN	FEMALE MOLEX CONNE	CTOR	2	-F-MOLEX
J31	2-PIN	ON-BOARD MALE CRIM	P CONNECTOR	5	3375-0210
J32	2-PIN	FEMALE MOLEX CONNE	CTOR	2	-F-MOLEX
J33	2-PIN	ON-BOARD MALE CRIM	P CONNECTOR	53375-0210	
J34	2-PIN	FEMALE MOLEX CONNE	CTOR	2-F-MOLEX	
J41	5-PIN	ON-BOARD MALE CRIM	P CONNECTOR	53375-0510	
J42	5-PIN	FEMALE MOLEX CONNE	CTOR	5	-F-MOLEX
PREPARED		J. C□UCH	2022/02/18	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150	
CHECKED		S. MATTINGLY	2022/03/07	WIRE HARNESS DIAGRAM	
ENGINEER				FILENANE: 1122.DWG	^{1)VG ND.} 1122

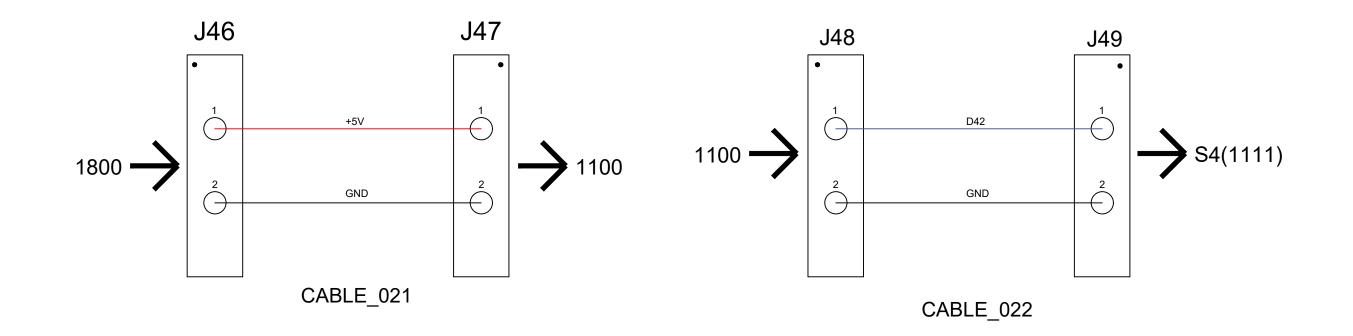
REVISIONS

 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 IV	IINI-LOCK CONNECTO	DR 53375-0210		
J47	2-PIN FEMALE MOLEX	CONNECTOR	2-F-MOLEX		
J48	2-PIN MALE MOLEX IV	OR 53375-0210			
J49	2-PIN FEMALE MOLEX	2-F-MOLEX			
PREPARED	J. C□UCH	2022/02/18	PURDUE POLYTECHNIC NEW ALBANY 3000 TECHNOLOGY AVE NEW ALBANY, IN 47150		
CHECKED	А. ВПЕНМ	2022/03/14	WIRE HARNESS DIAGRAM		

ENGINEER

DVG ND. 1123

1123.DWG