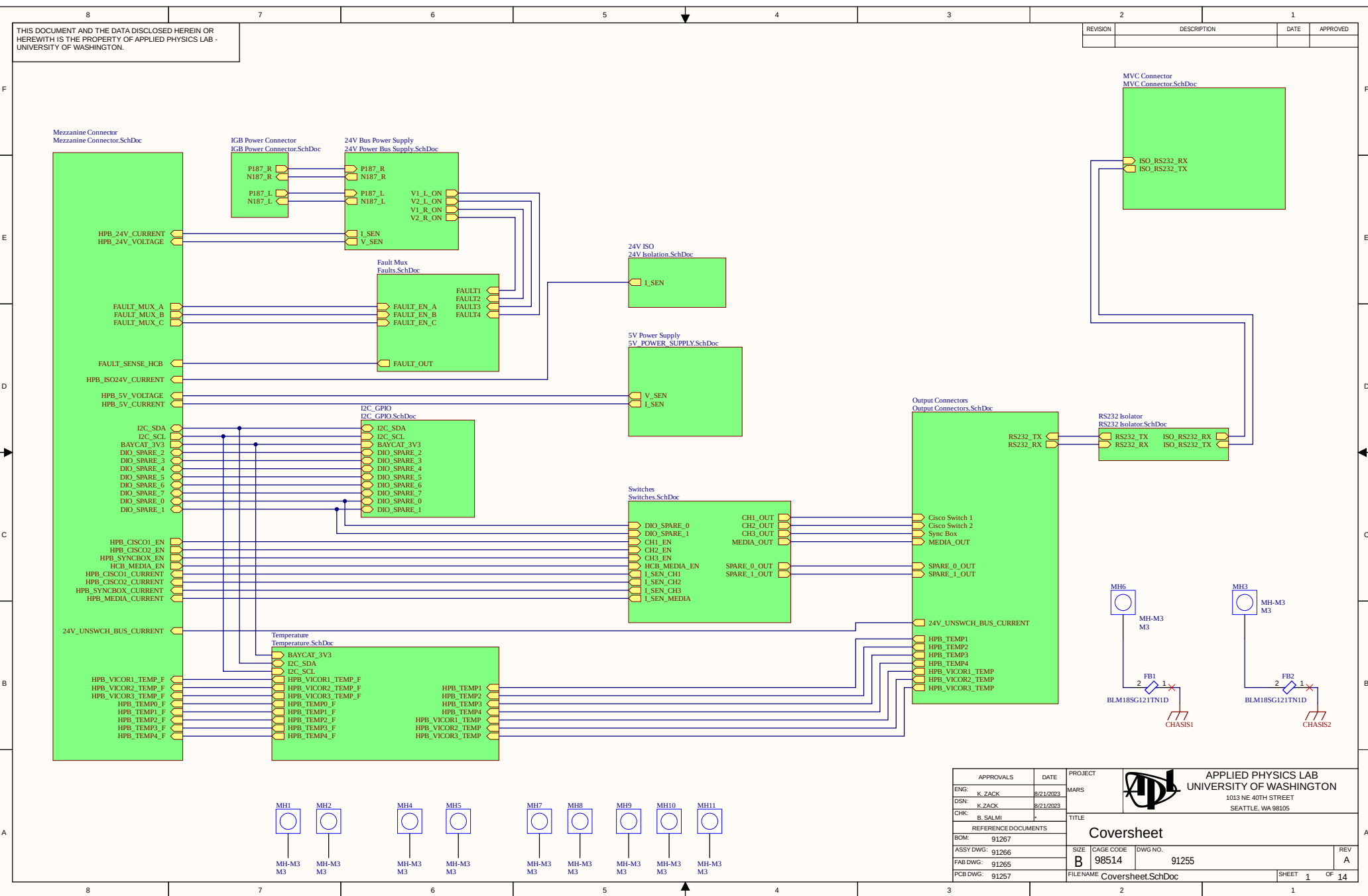
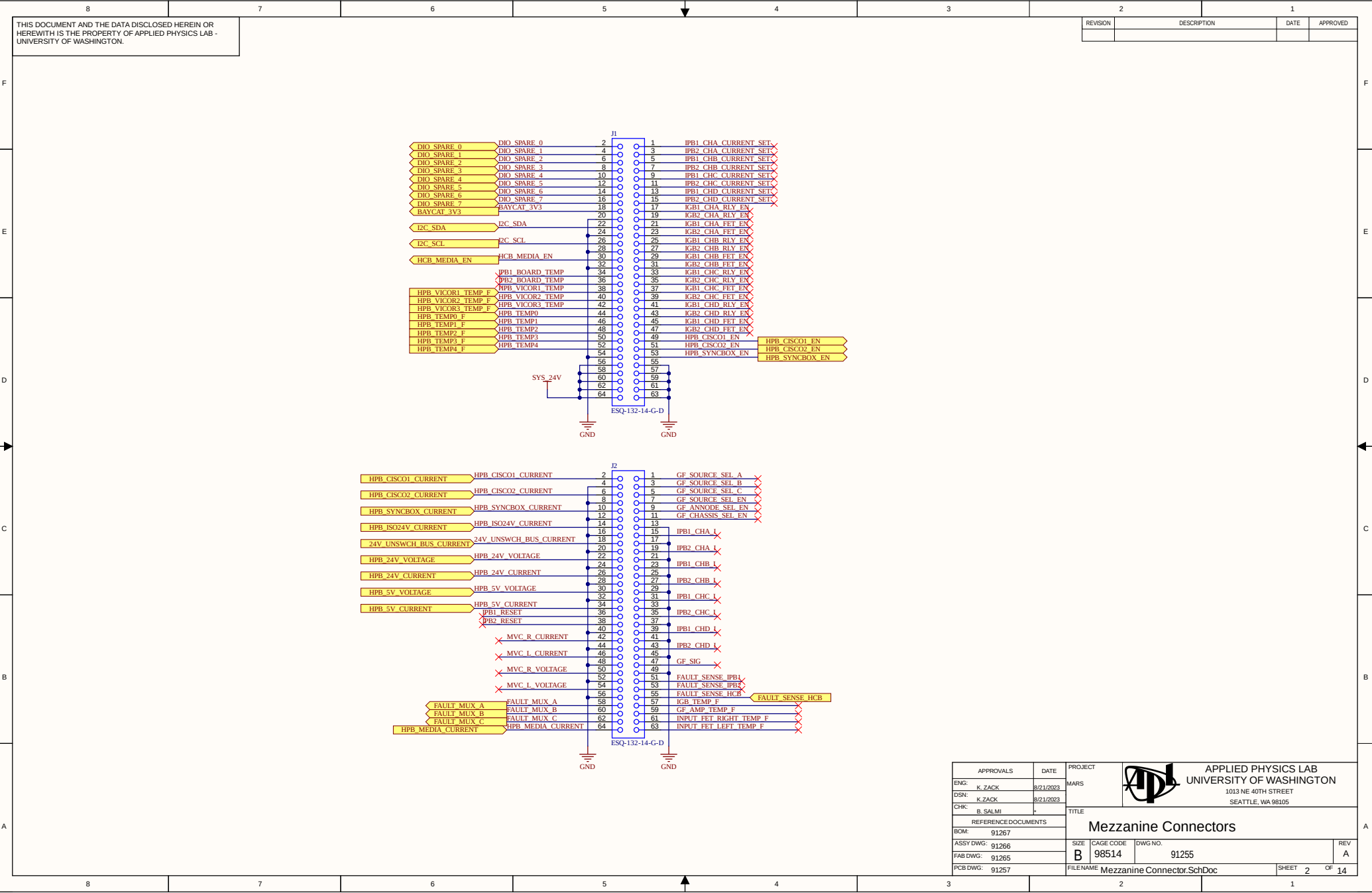






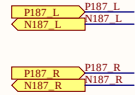
APPROVALS		DATE	PROJECT		 APPLIED PHYSICS LAB UNIVERSITY OF WASHINGTON 1013 NE 40TH STREET SEATTLE, WA 98105			
ENG:	K. ZACK	8/21/2023	MARS					
DSN:	K. ZACK	8/21/2023						
CHK:	B. SALMI							
REFERENCE DOCUMENTS			TITLE		Mezzanine Connectors			
BOM:	91267							
ASSY DWG:	91266		SIZE	CAGE CODE			DWG NO.	REV
FAB DWG:	91265		B	98514			91255	A
PCB DWG:	91257		FILENAME				Mezzanine Connector.SchDoc	
			SHEET			2	OF	14

8		7		6		5		4		3		2		1			
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375V INPUT FROM IGB																	
												APPROVALS				DATE	PROJECT
												ENG: K. ZACK		8/21/2023	MARS		
												DSN: K. ZACK		8/21/2023			
												CHK: B. SALMI					
												REFERENCE DOCUMENTS					
												BOM: 91267					
												ASSY DWG: 91266					
												FAB DWG: 91265					
												PCB DWG: 91257					
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												B	98514	91255	A		
												FILENAME IGB Power Connector.SchDoc				SHEET 3 OF 14	

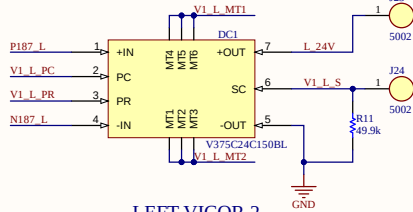
REVISION	DESCRIPTION	DATE	APPROVED

PR TRANSFORMERS

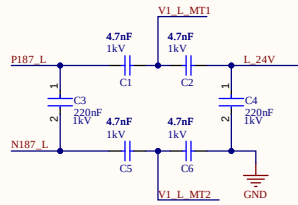
*IF DIODE OR BYPASSED USE 33 OHM, POPULATE OR JUMPERS



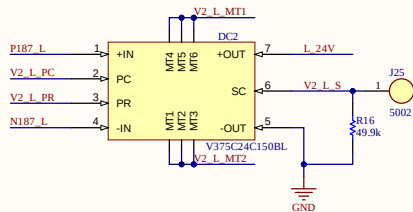
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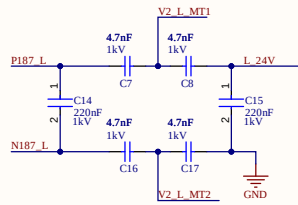
LEFT VICOR 1 HF CAPS



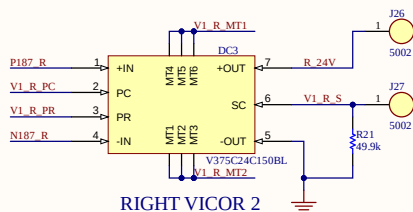
LEFT VICOR 2



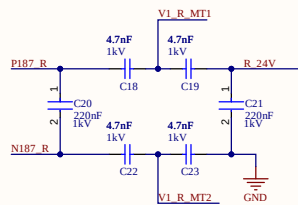
LEFT VICOR 2 HF CAPS



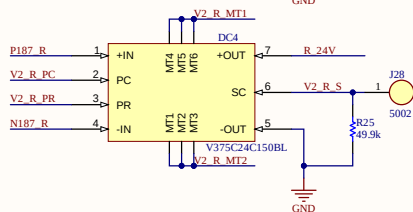
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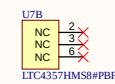
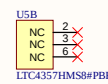
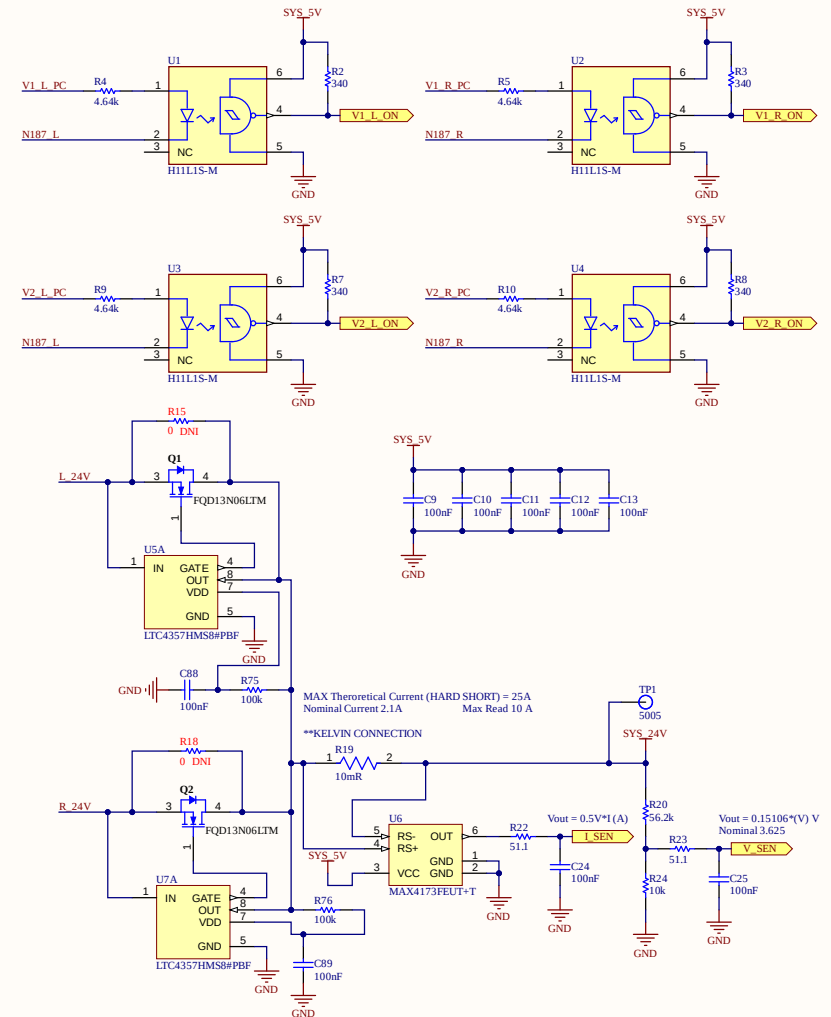
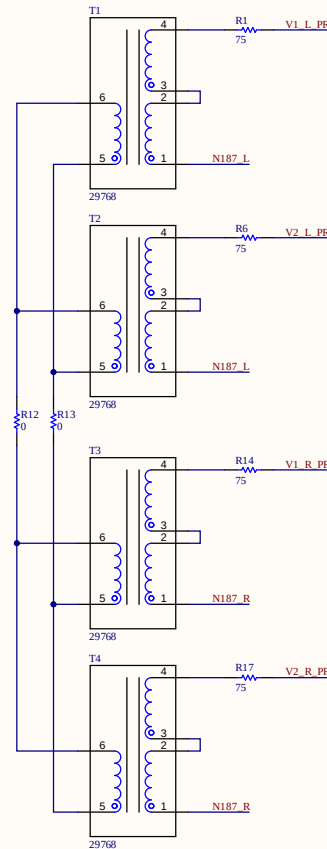
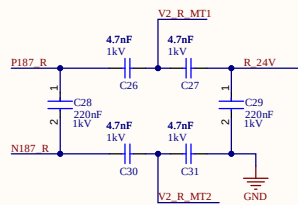
RIGHT VICOR 1 HF CAPS



RIGHT VICOR 2



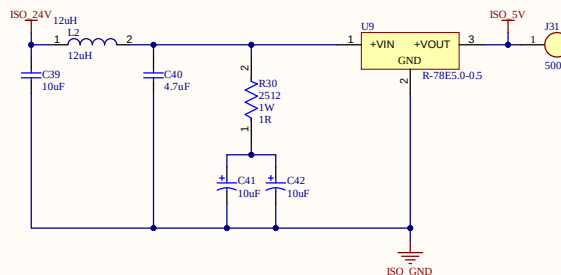
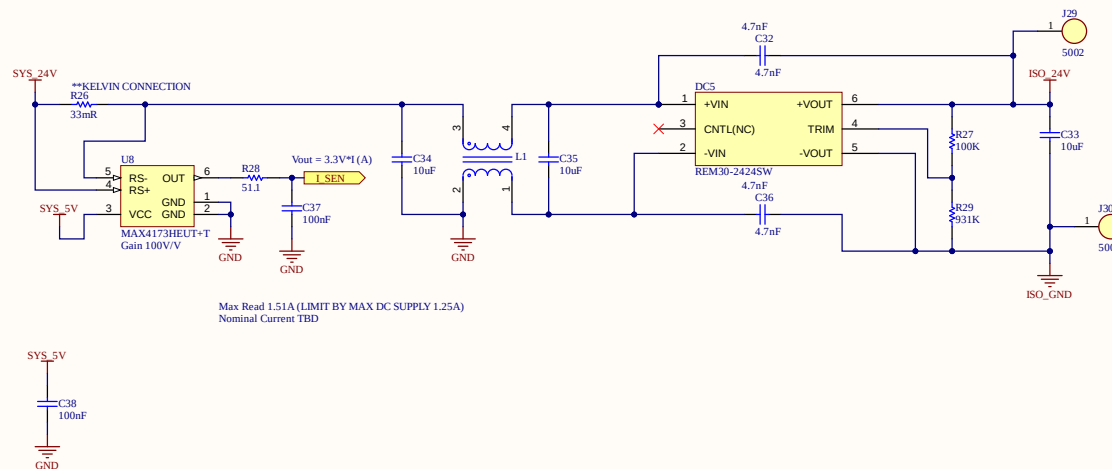
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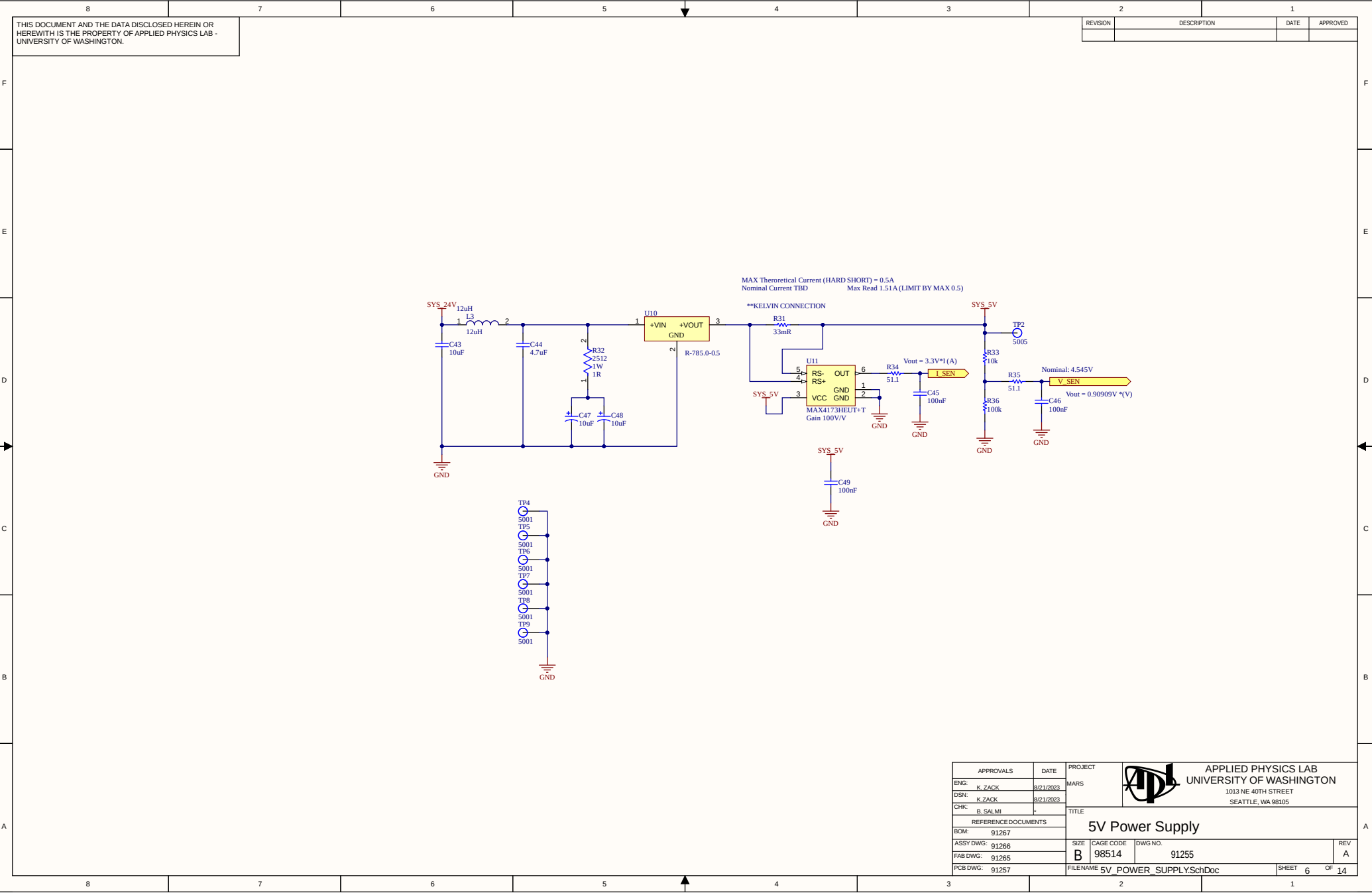
APPROVALS		DATE	PROJECT	 APPLIED PHYSICS LAB UNIVERSITY OF WASHINGTON 1013 NE 40TH STREET SEATTLE, WA 98105	
ENG:	K. ZACK	8/21/2023	MARS		
DSN:	K. ZACK	8/21/2023			
CHK:	B. SALMI	*			
REFERENCE DOCUMENTS			TITLE		
BOM: 91267			24V Power Bus Supply		
ASSY DWG: 91266			SIZE	CAGE CODE	DWG NO.
FAB DWG: 91265			B	98514	91255
PCB DWG: 91257			FILE NAME		REV
			24V Power Bus Supply_SchDoc		A
				SHEET	CF
				4	14

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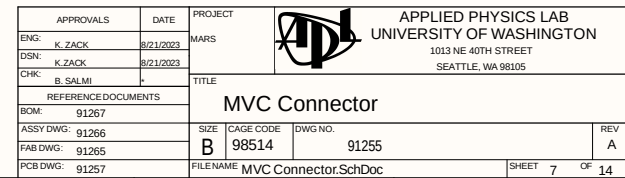


APPROVALS		DATE	PROJECT		 APPLIED PHYSICS LAB UNIVERSITY OF WASHINGTON 1013 NE 40TH STREET SEATTLE, WA 98105
ENG:	K. ZACK	8/21/2023	MARS		
DSN:	K. ZACK	8/21/2023			
CHK:	B. SALMI				
REFERENCE DOCUMENTS			TITLE		24V Isolation
BOM:	91267				
ASSY DWG:	91266	SIZE	CAGE CODE	DWG NO.	
FAB DWG:	91265	B	98514	91255	
PCB DWG:	91257	FILE NAME		24V Isolation.SchDoc	



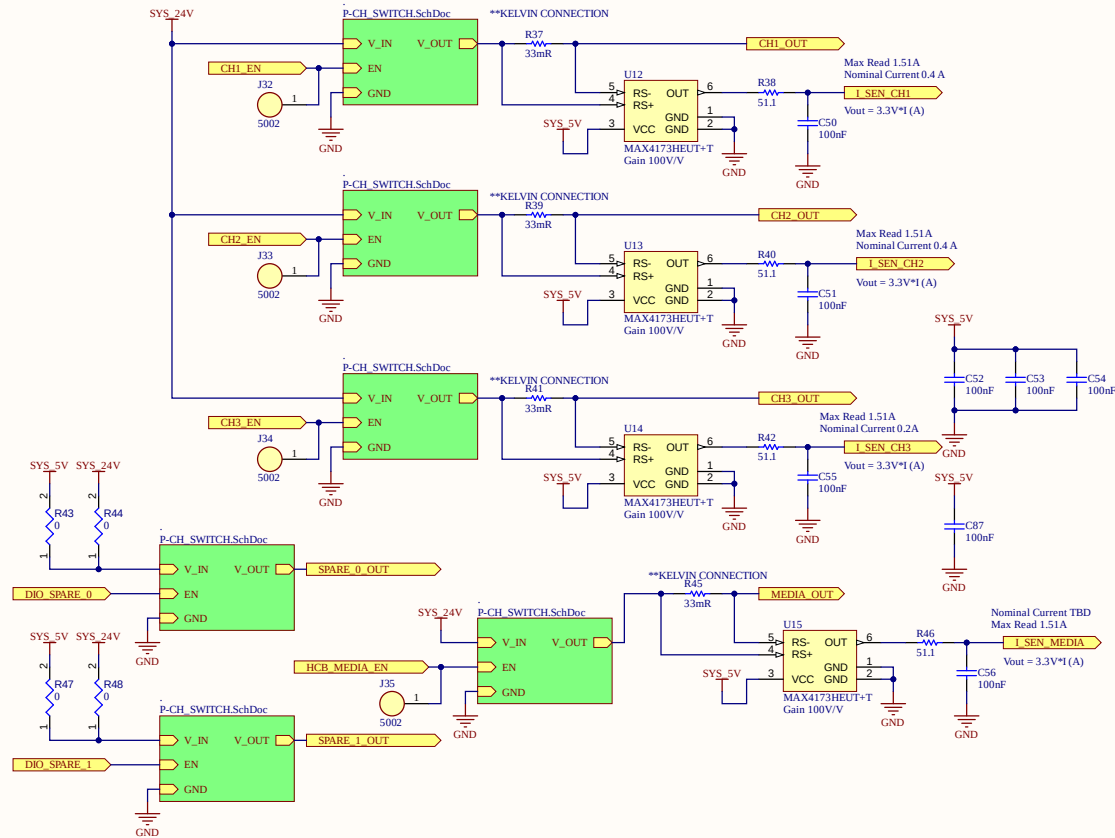
APPROVALS		DATE	PROJECT		 APPLIED PHYSICS LAB UNIVERSITY OF WASHINGTON 1013 NE 40TH STREET SEATTLE, WA 98105
ENG:	K. ZACK	8/21/2023	MARS		
DSN:	K. ZACK	8/21/2023			
CHK:	B. SALMI				
REFERENCE DOCUMENTS			TITLE		
BOM:	91267		5V Power Supply		
ASSY DWG:	91266		SIZE	CAGE CODE	DWG NO.
FAB DWG:	91265		B	98514	91255
PCB DWG:	91257		FILENAME 5V_POWER_SUPPLY.SchDoc		
			SHEET 6 OF 14		

REVISION	DESCRIPTION	DATE	APPROVED

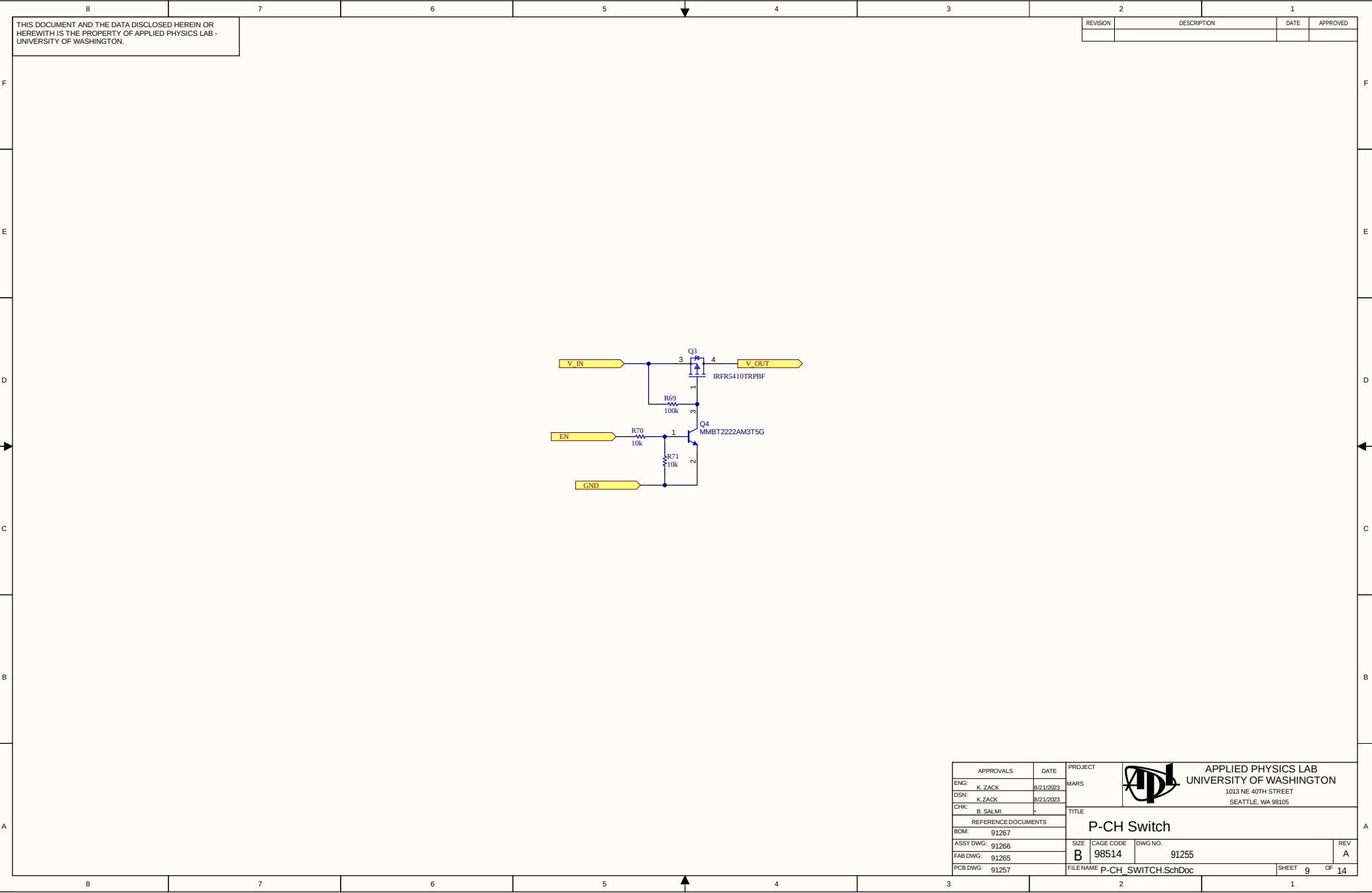


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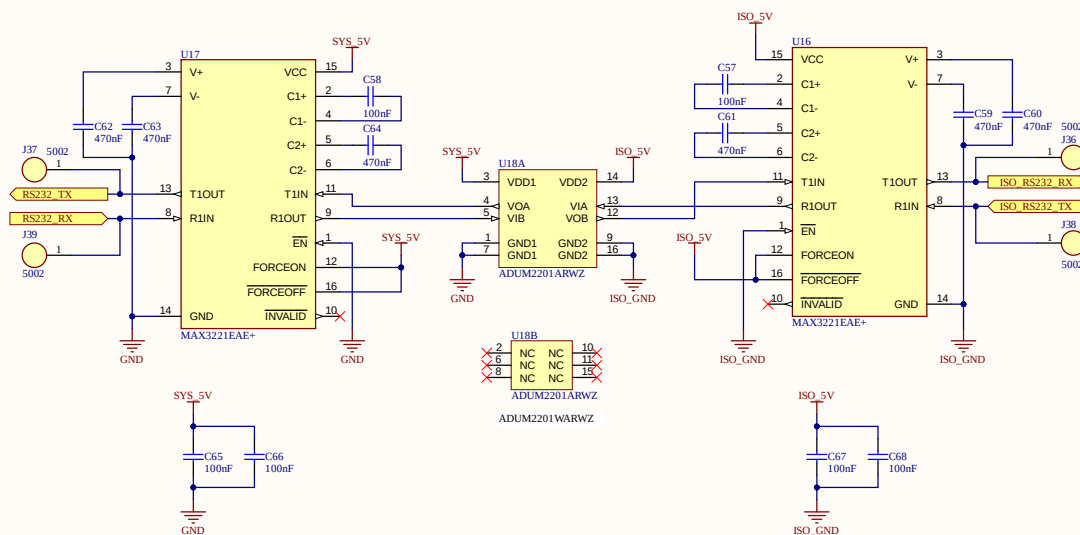


APPROVALS		DATE	PROJECT			APPLIED PHYSICS LAB UNIVERSITY OF WASHINGTON 1013 NE 40TH STREET SEATTLE, WA 98105	
ENG:	K. ZACK	8/21/2023	MARS			TITLE Switches	
DSN:	K. ZACK	8/21/2023					
CHK:	B. SALMI						
REFERENCE DOCUMENTS			SIZE		CAGE CODE		REV A
BOM:	91267		B		98514		
ASSY DWG:	91266		DWG NO.		91255		
FAB DWG:	91265		FILENAME		Switches.SchDoc		
PCB DWG:	91257				SHEET		8 OF 14



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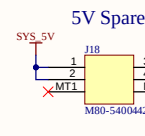
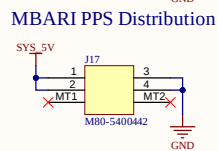
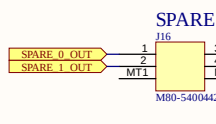
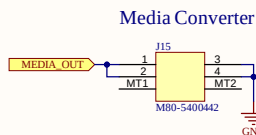
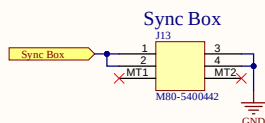
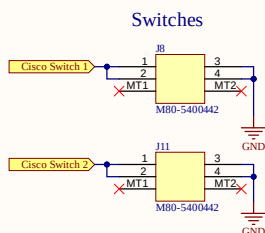
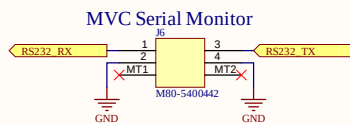
REVISION	DESCRIPTION	DATE	APPROVED



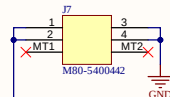
APPROVALS		DATE	PROJECT		 APPLIED PHYSICS LAB UNIVERSITY OF WASHINGTON 1013 NE 40TH STREET SEATTLE, WA 98105	
ENG:	K. ZACK	8/21/2023	MARS			
DSN:	K. ZACK	8/21/2023			TITLE	
CHK:	B. SALMI					
REFERENCE DOCUMENTS			SIZE		CAGE CODE	
BOM:	91267		B		91255	
ASSY DWG:	91266		DWG NO.		91255	
FAB DWG:	91265		FILENAME		RS232 Isolator.SchDoc	
PCB DWG:	91257		SHEET		10 OF 14	

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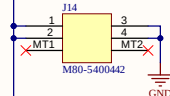
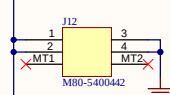
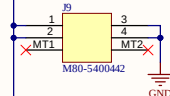
REVISION	DESCRIPTION	DATE	APPROVED



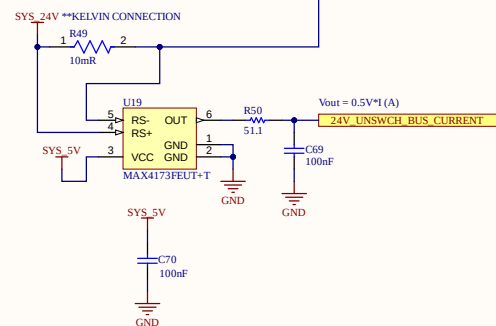
24V SIC



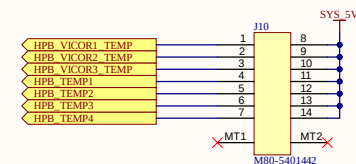
24V Spares



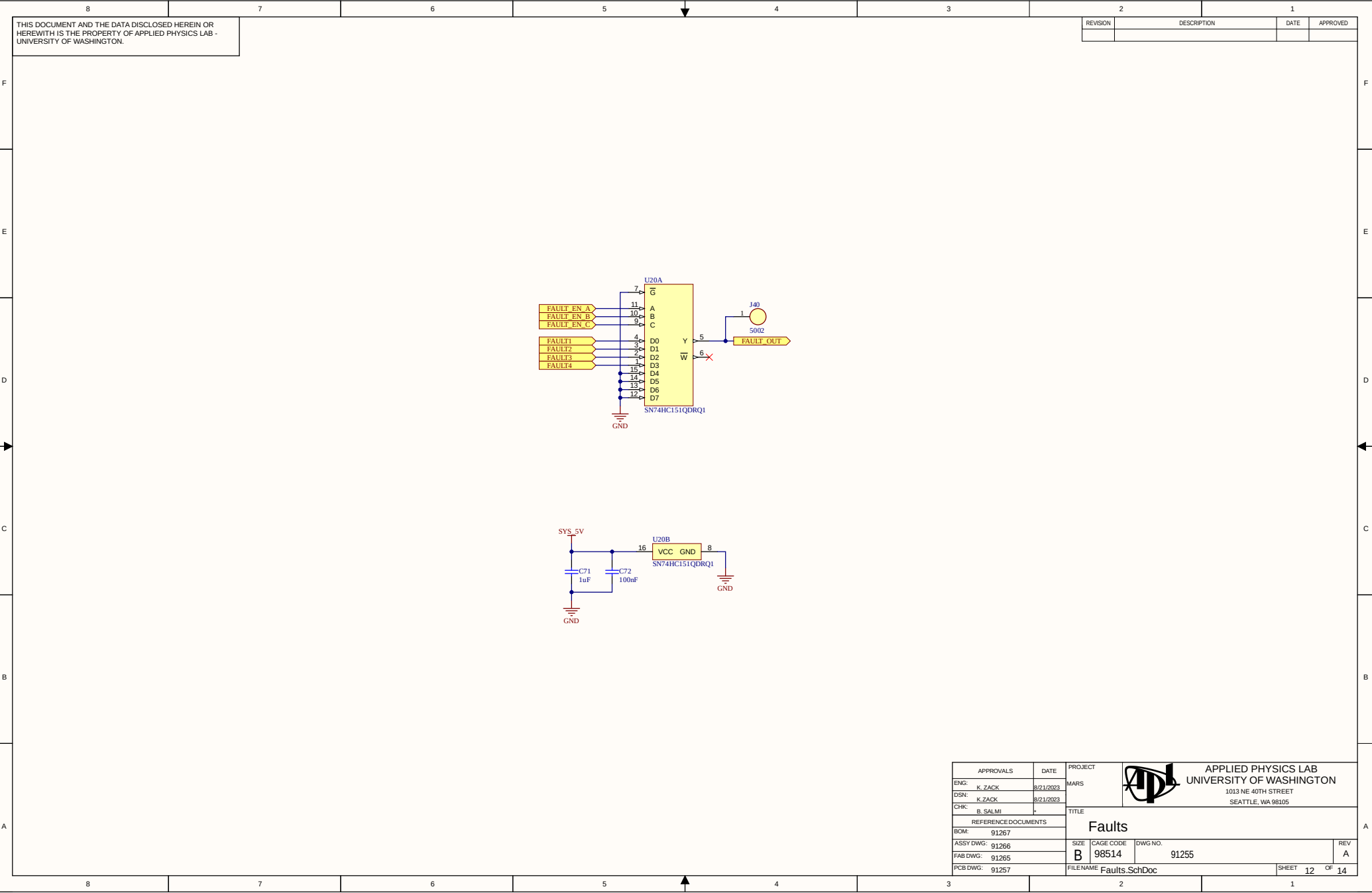
MAX Theoretical Current (HARD SHORT) = 25A
Nominal Current 2.1A Max Read 10 A



TEMPERATURE AD590'S



APPROVALS	DATE	PROJECT	APPLIED PHYSICS LAB UNIVERSITY OF WASHINGTON 1013 NE 40TH STREET SEATTLE, WA 98105	
ENG: K. ZACK	8/21/2023	MARS		
DSN: K. ZACK	8/21/2023			
CHK: B. SALMI			TITLE	
REFERENCE DOCUMENTS			Output Connectors	
BOM: 91267				
ASSY DWG: 91266		SIZE	CAGE CODE	DWG NO.
FAB DWG: 91265		B	98514	91255
PCB DWG: 91257		FILENAME	Output Connectors.SchDoc	
			SHEET	11 OF 14



F

E

D

C

B

A

F

E

D

C

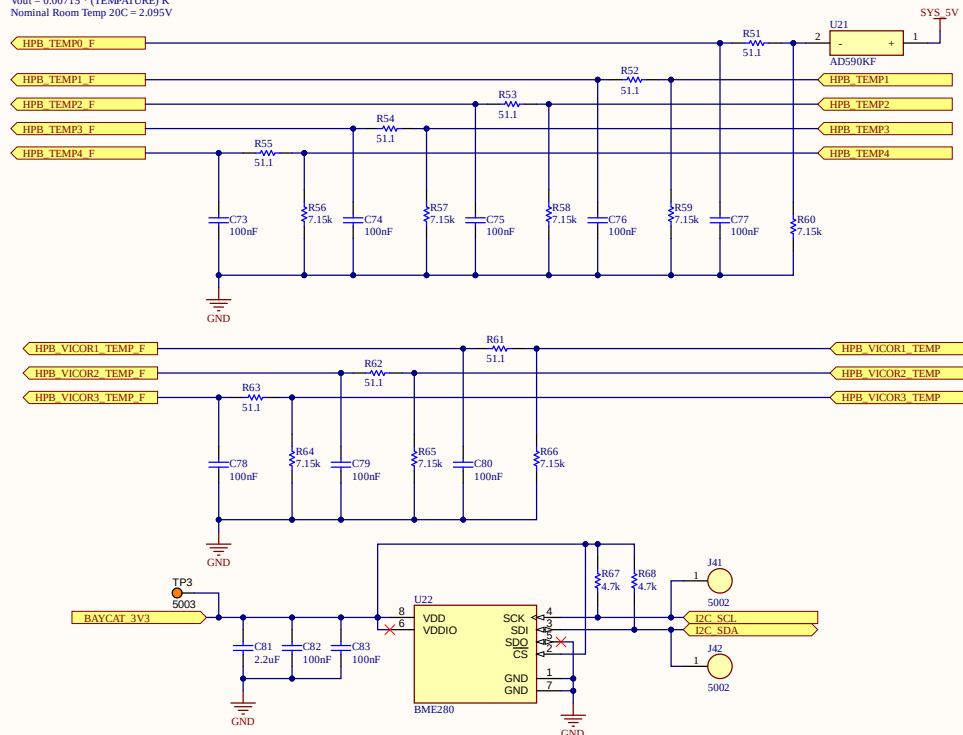
B

A

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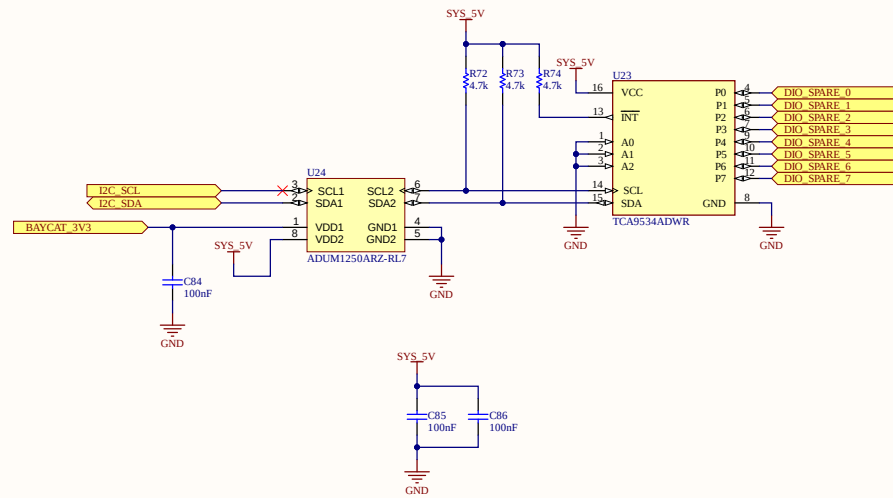
$V_{out} = 0.00715 * (TEMP_{ATURE}) K$
Nominal Room Temp 20C = 2.095V



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ENG:	K. ZACK	8/21/2023	MARS			
DSN:	K. ZACK	8/21/2023			TITLE Temperature	
CHK:	B. SALMI					
REFERENCE DOCUMENTS			SIZE		CAGE CODE	
BOM:	91267		B		98514	
ASSY DWG:	91266		DWG NO.		91255	
FAB DWG:	91265		FILENAME		Temperature.SchDoc	
PCB DWG:	91257		SHEET		13 OF 14	

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APPROVALS		DATE	PROJECT	 APPLIED PHYSICS LAB UNIVERSITY OF WASHINGTON 1013 NE 40TH STREET SEATTLE, WA 98105		
ENG:	K. ZACK	8/21/2023	MARS			
DSN:	K. ZACK	8/21/2023				
CHK:	B. SALMI	*				
REFERENCE DOCUMENTS			TITLE			
BOM:	91267		I2C GPIO			
ASSY DWG:	91266		SIZE	CAGE CODE	DWG NO.	REV
FAB DWG:	91265		B	98514	91255	A
PCB DWG:	91257		FILENAME I2C_GPIO.SchDoc			SHEET 14 OF 14

