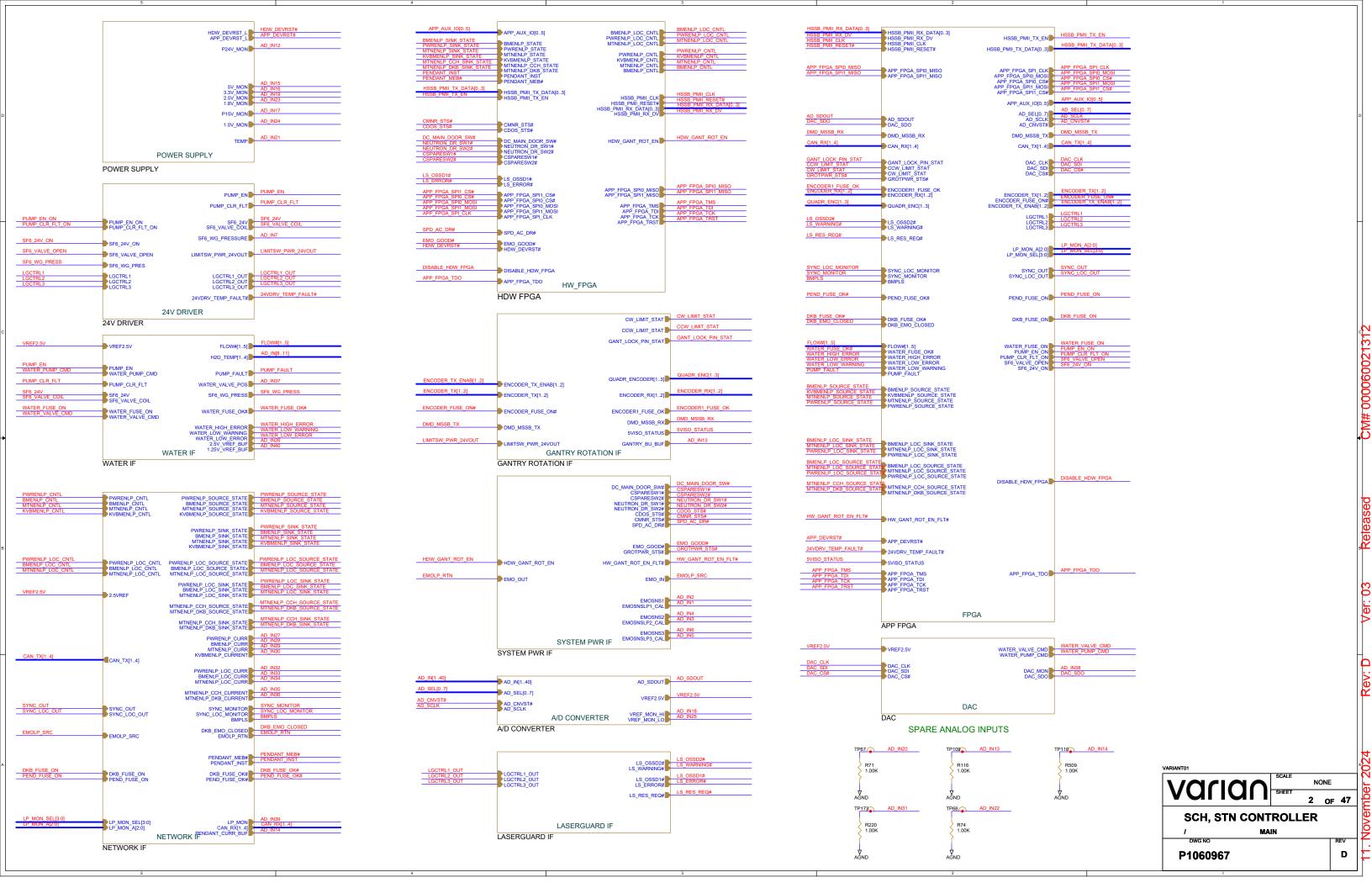
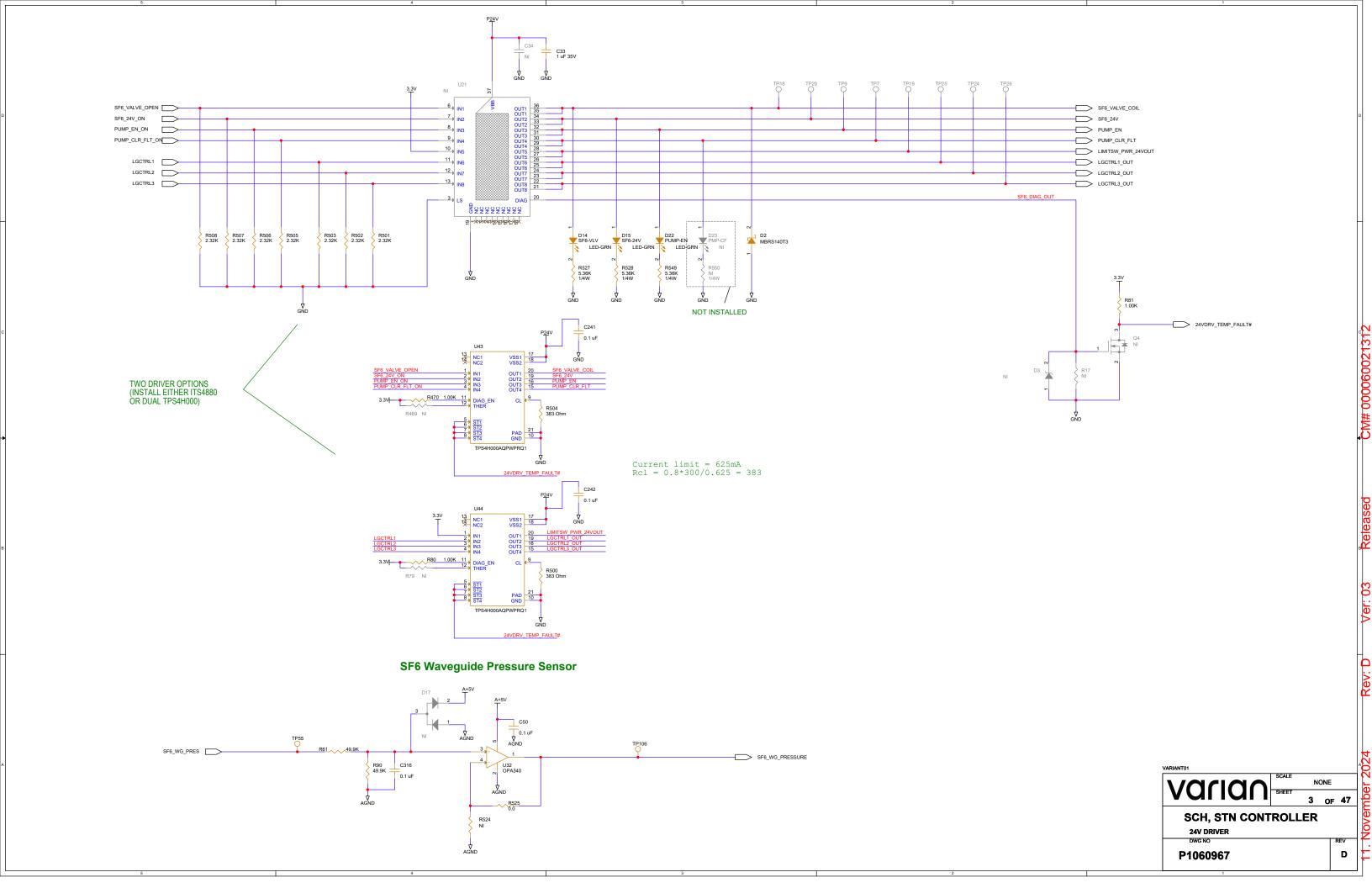
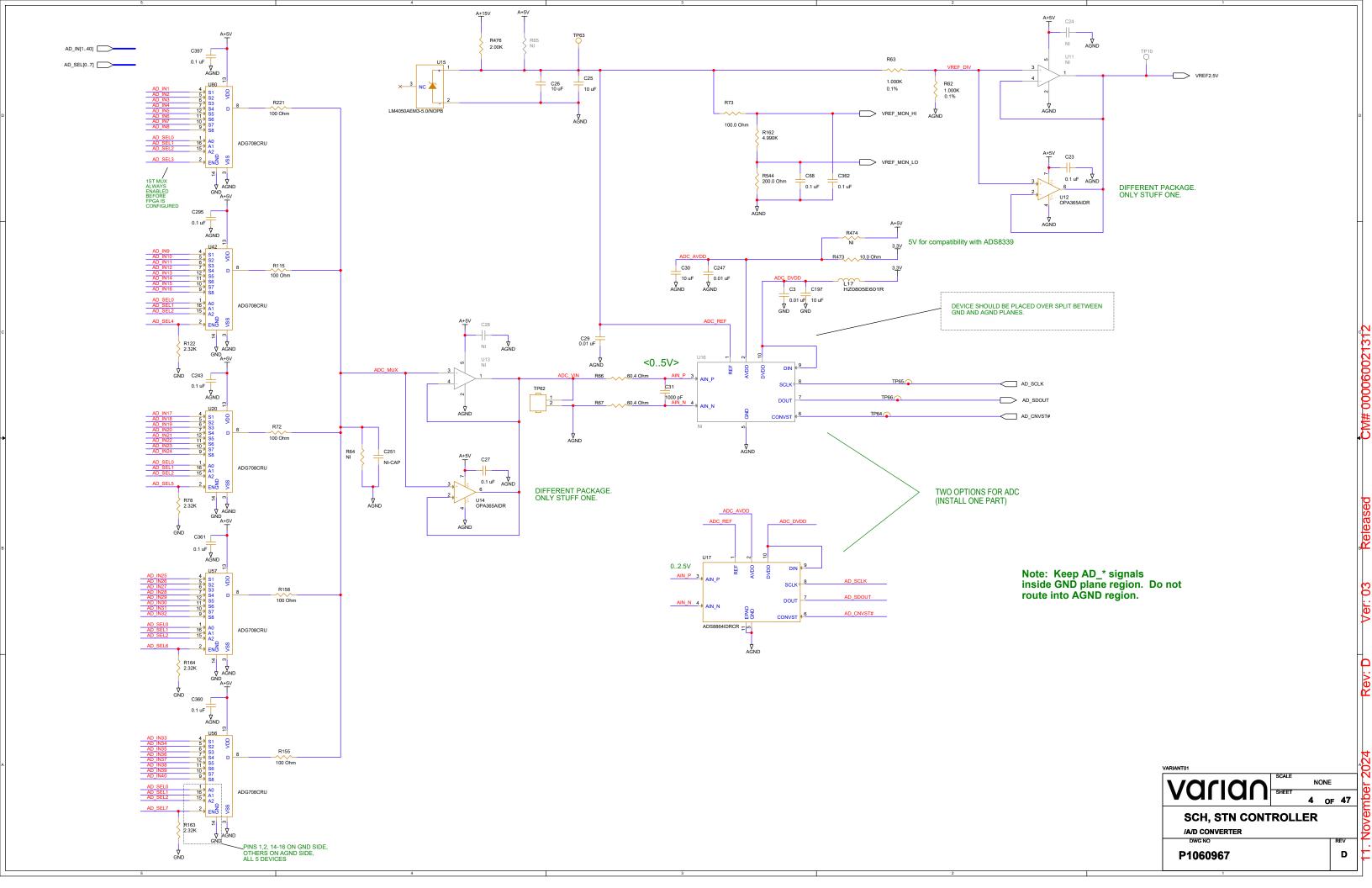
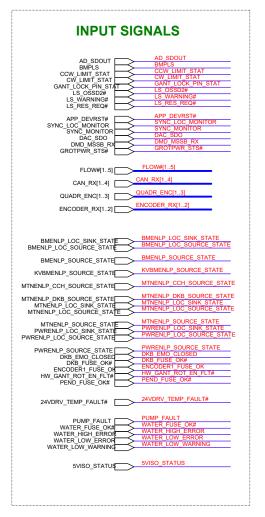
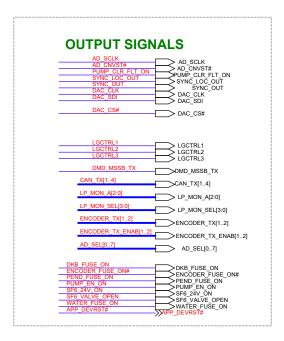
DASH NO. TYPE OR MODEL NEXT ASSEMBLY	4		3		2		1
DASH NO. TYPE OR MODEL NEXT ASSEMBLY P1060966			HIEDADOUV DIAC		•		
	COVER HIERARCHY DIAGRAM						
TABLE OF CONTENTS	(SHEET 1)						
PAGE SHEET I/O							
	MAIN	A/D CONVERTER					
1 COVER 2 MAIN	(SHEET 2)	(SHEET 3)					
3 A/D CONVERTER		D.4.0	APP FPGA GPIO				
4 DAC	_	DAC	(SHEET 5)				
5 APP FPGA GPIO		(SHEET 4)	(SHEET 5)			CAN BUS	D
6 APP FPGA HSIO J40 7 APP EPGA PROGRAMMING AND POWER J41			APP FPGA HSIO				(SHEET 18)
7 APP FPGA PROGRAMMING AND POWER J41 8 GANTRY ROTATION IF J5, J43							
9 ENCODER IF J6, J7			(SHEET 6)			E FUSE DKB	
10 ENCODER TX AND RX		APP FPGA	APP FPGA PROGRAMMING				(SHEET 19)
11 GANTRY LIMIT SW	T		AND POWER (SHEET 7)				
12 HW FPGA GPIO J35			(SHEELT)	_		ENABLE LOOP	MAIN BEL
13 HW FPGA HSIO J36		GANTRY ROTATION IF	ENCODER IF		ENCODER TX AND RX		(SHEET 20)
14 HW FPGA POWER 15 PHY J20		(SHEET 8)	(SHEET 9)		(SHEET 10)		H
16 LASERGUARD IF J28		(SHEET 0)	(STILLT 9)		(311221 10)]	ENABLE LOOP	MAIN MEL
17 NETWORK IF J3, J4, J9	CONNECTOR VEVING TARLE		GANTRY LIMIT SW				(SHEET 21)
16 CAN BOS	CONNECTOR KEYING TABLE		(SHEET 11)				
19 E FUSE DKB	Jx TYPE KEY		(OHLLI II)			ENABLE LOOP	MAIN PEL
	J22 DSUB 15R 5	HW FPGA	HW FPGA GPIO				(SHEET 22)
21 ENABLE LOOP MAIN MEL 22 ENABLE LOOP MAIN PEL	J9 DSUB 15R 7	— INV FFGA					
EIVISEE 2001 IIII III TE	J29 DSUB 15R 12* J30 DSUB 15R 12*		(SHEET 12)			ENABLE LOOP	
24 ENABLE LOOP USER COUCH	J28 DSUB 15R 13	LASERGUARD	HW FPGA HSIO			KVBEL	(SHEET 23)
25 ENABLE LOOP USER DKB	J7 DSUB 15R 6						· · · · · · · · · · · · · · · · · · ·
26 LOCAL NETWORK J29, J30 27 ENABLE LOOP LOCAL BEL	J3 HDSUB 26R 7*	(SHEET 16)	(SHEET 13)				}
27 ENABLE LOOP LOCAL BEL 28 ENABLE LOOP LOCAL MEL	J4 HDSUB 26R 7*		HW FPGA POWER				\ <u>\</u>
20 ENARIE LOOP LOCAL PEL	J12 HDSUB 26R 17						
30 LOOP MON	J6 DSUB 9R 1**		(SHEET 14)			ENABLE LOOP	
31 LOCAL LOOP MON			PHY			СООСН	(SHEET 24)
32 SUBSYS LOOP MON 33 PENDANT IF J25						ENIABLE LOOP	HOED DIVE
33 PENDANT IF J25 34 E FUSE PENDANT	* KEY IS COMMON AMONG OTHER SIMILAR CONNECTOR TYPES, NO		(SHEET 15)			ENABLE LOOP	
35 DC DC CONVERTERS J1	SIMILAR CONNECTOR TYPES. NO DAMAGE WILL OCCUR IF THESE ARE CONNECTED BACKWARDS.	NETWORK IF					(SHEET 25)
36 NEG5V LDO ISOLATED AND RESET		(SHEET 17)				LOCAL NIETWO	ENABLE LOOP LOCAL BELL
37 24V DRIVER	** KEY IS TO PREVENT CONNECTION					LOCAL NETWO	
38 SYSTEM POWER IF J13	TO RPM BEAM GATING CABLES WHICH WERE USED ON PREVIOUS	POWER SUPPLY					(SHEET 26) (SHEET 27)
39 EMO LOOP SENSE CCH STD 40 EMO LOOP SENSE CUST	REVISION	(SHEET 35-36)					ENABLE LOOP LOCAL MEL
41 EMO LOOP SENSE MOD							
42 STAND POWER IF	-	24V DRIVER					(SHEET 28)
43 WATER IF J12, J22		(SHEET 37)					ENABLE LOOP LOCAL PEL
44 E FUSE WATER		0)/07514514514					
45 FLOW SENSORS 46 WATER LEVEL	-	SYSTEM PWR IF	EMO LOOP SENSE CCH				(SHEET 29)
47 WATER TEMP SENSOR		(SHEET 38)	(SHEET 39)			LOOP MON	LOCAL LOOP MON
			EMO LOOP SENICE CLICT			1 2001 111011	
			EMO LOOP SENSE CUST				(SHEET 30) (SHEET 31)
			(SHEET 40)				SUBSYS LOOP MON
			EMO LOOP SENSE MOD				(SHEET 32)
							(SPEE 1 32)
			(SHEET 41)			PENDANT IF	E FUSE PENDANT
			STAND POWER IF				(SHEET 33) (SHEET 34)
			<u> </u>				(011221 04))
			(SHEET 42)				
		WATER IF	E FUSE WATER				
		(SHEET 43)	(SHEET 44)	THIS DO	CUMENT CONTAINS INFORMATION WHICH IS THE PROPRIETARY PROPERTYOF VARIA	N MEDICAL SYSTEMS.	THE ELECTRONIC SIGNATURE RECORD WILL BE APPENDED
		(311551 43)	(311661 44)	REPROD PRIOR W	CUMENT CONTAINS INFORMATION WHICH IS THE PROPRIETARY PROPERTYOF VARIA JUCTION. DISCLOSURE, OR RELEASE TO OTHERS, MANUALLY OR ELETRONICALLY, V PRITTEN CONSENT OF VARIAN MEDICAL SYSTEMS IS STRICTLY PROHIBITED.	MITHOUT THE	TO THE LAST PAGE OF THE SECURED DOCUMENT
			FLOW SENSORS	 			\
SCHEMATIC DESIGN NOTES			(SHEET 45)				varian
SCHEMATIC DESIGN NOTES					- RENUMBERED REFDES		VALIALI 🖠
1. ALL RESISTANCE VALUES ARE IN OHMS.			WATER LEVEL	§	- INCORPORATED REWORK FOR 5VISO CONTROL - ADDED VOLTAGE MONITOR CIRCUIT FOR PEND CURR (NO ST	TLIFFED)	TITLE:
2. PARTIAL REF DES ARE SHOWN: FOR COMPLETE DESIGNATION PREFIX WITH UNIT NO.			(SHEET 46)	SCRIPTION	 ADDED VOLTAGE MONITOR CIRCUIT FOR PEND_COKE (NO 5 ADDED VOLTAGE MONITOR CIRCUIT FOR GANTRY BU 24V (NO 5 CHANGED CHOKES DLW44SM851SK2L -> PE-1210CCMC102ST 	NO STUFFED)	
& SUBASSY DESIGNATION.				SSR	- CHANGED JTAG CONNECTORS TO SMT	5	SCH, STN CONTROLLER
3. TERMINAL NO. ARE SHOWN FOR REFERENCE ONLY & M	IAY NOT APPEAR ON THE		WATER TEMP SENSOR	温유	- CHANGED GND TEST POINTS TO SMT		
COMPONENT.			(SHEET 47)				DRAWN: SHEET DAGGGGT
							V. MANIKONDA 1 OF 47 D P1060967 D
				ECO REV	n		DATE: 2023-05-24
5	4		3	KEV	<u>ل</u> 2		ORCAD CAPTURE SIZE DWG NO REV





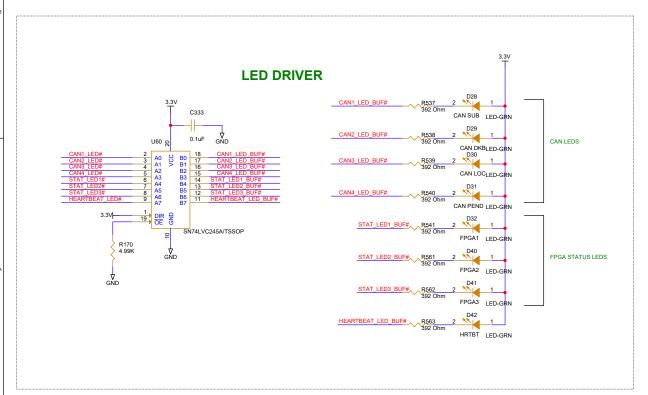


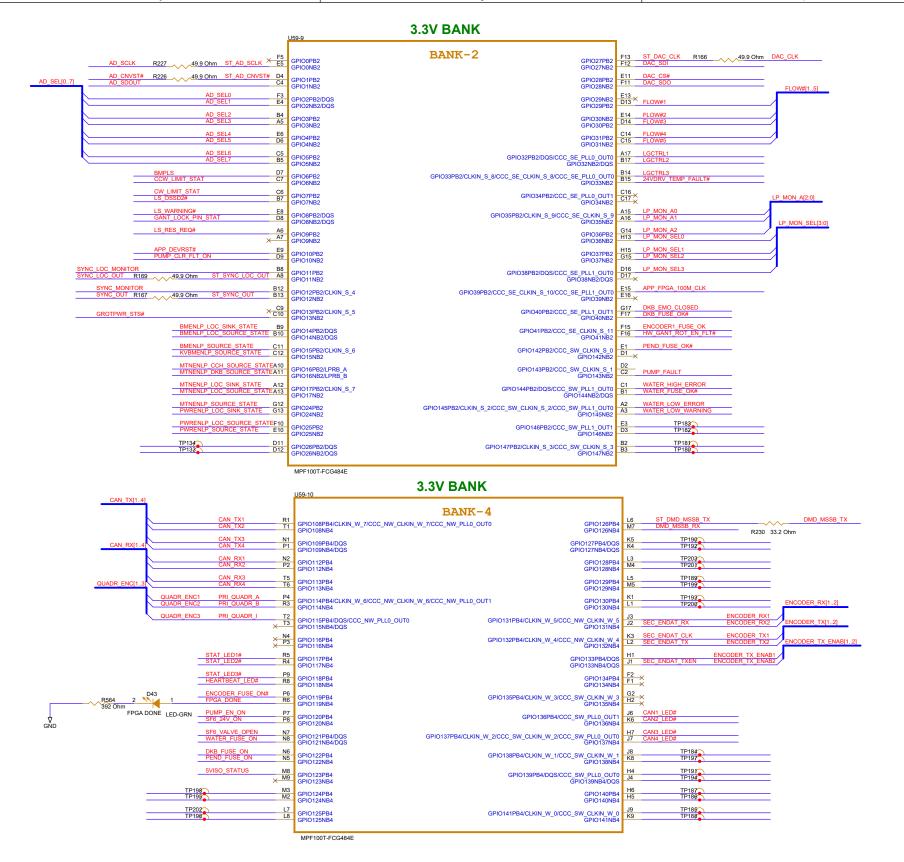




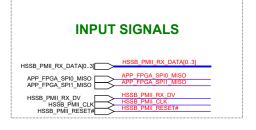
100MHz OSCILLATOR

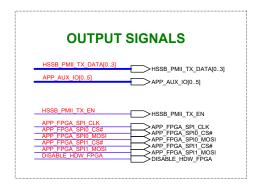


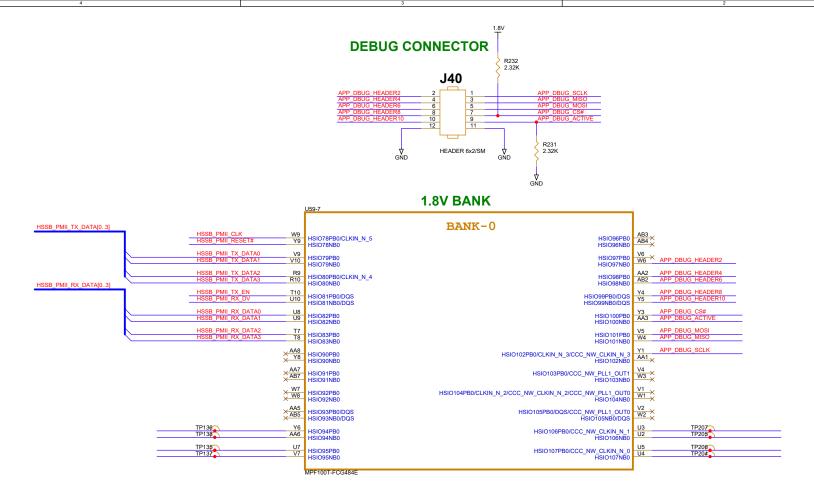


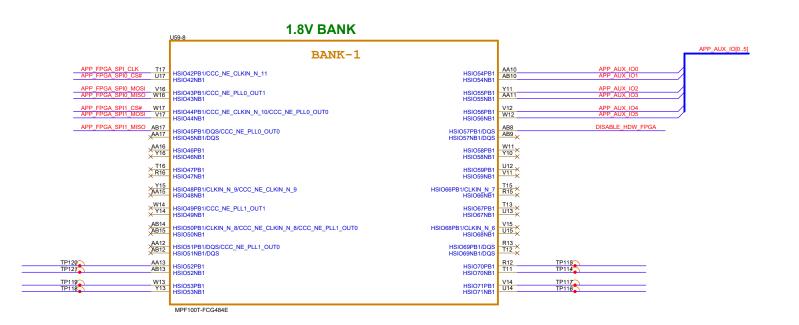


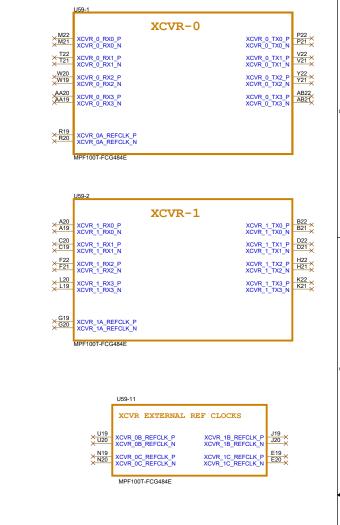




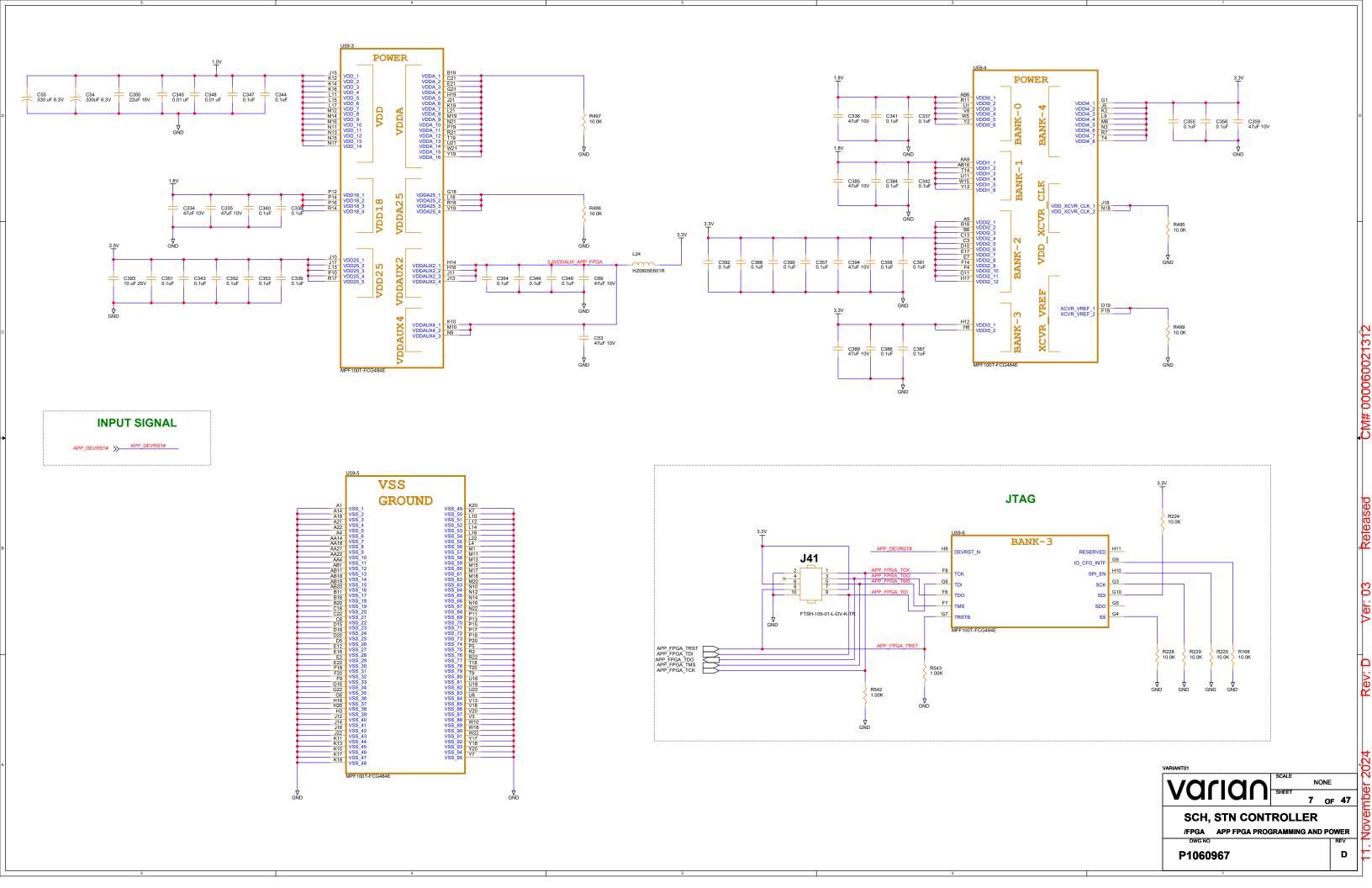


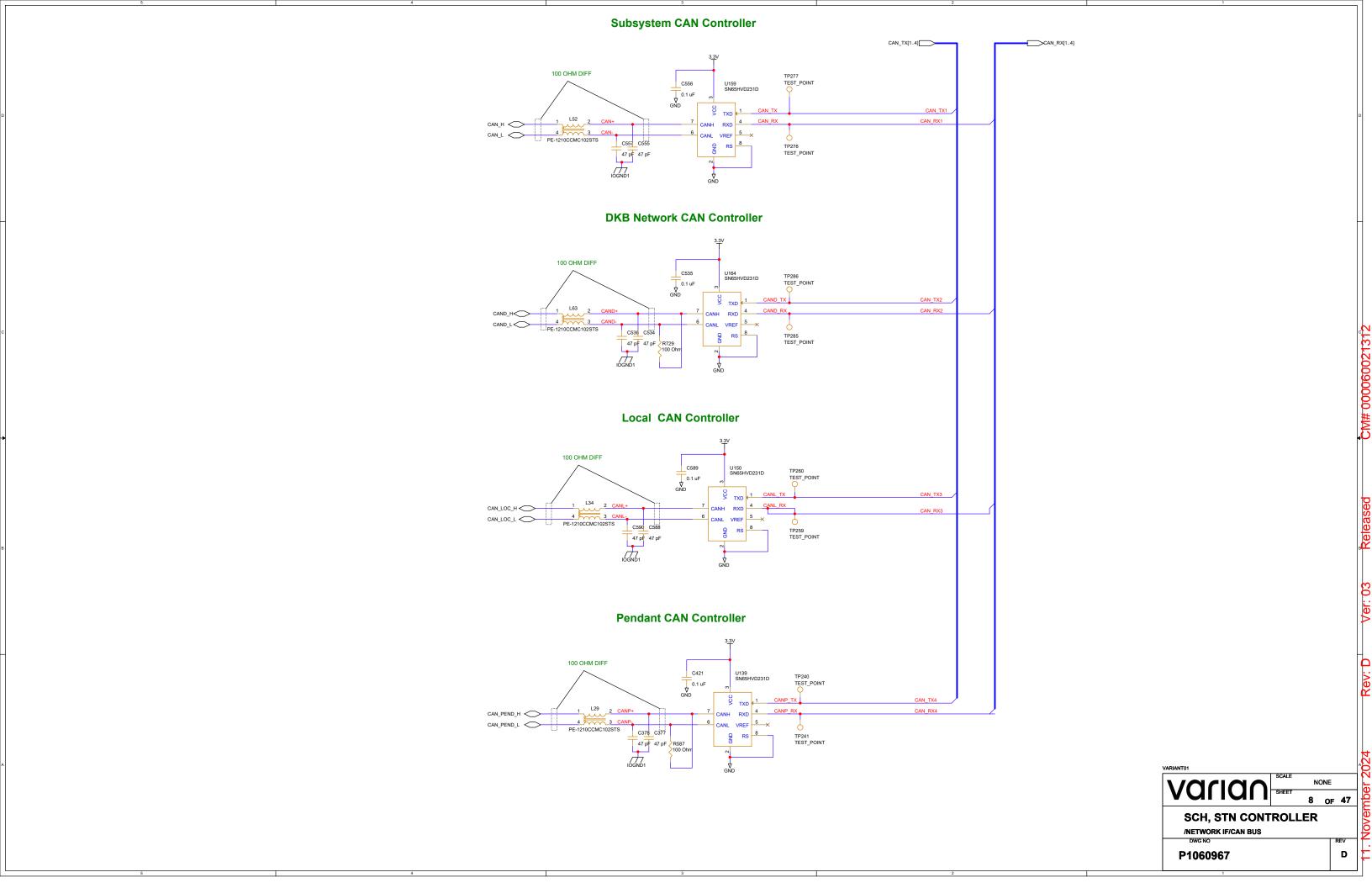


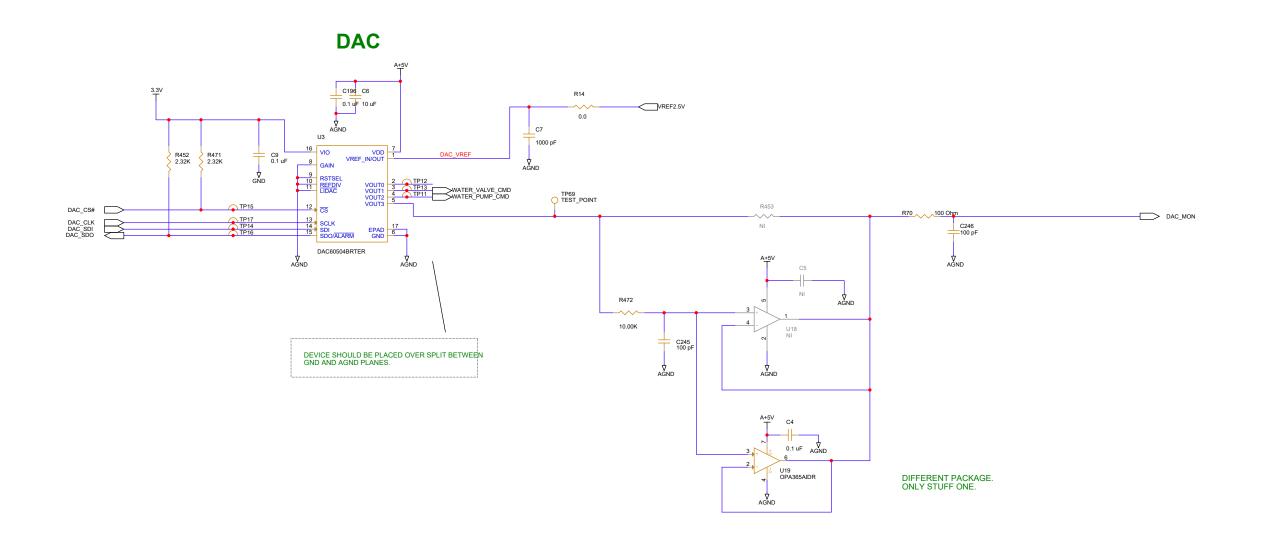


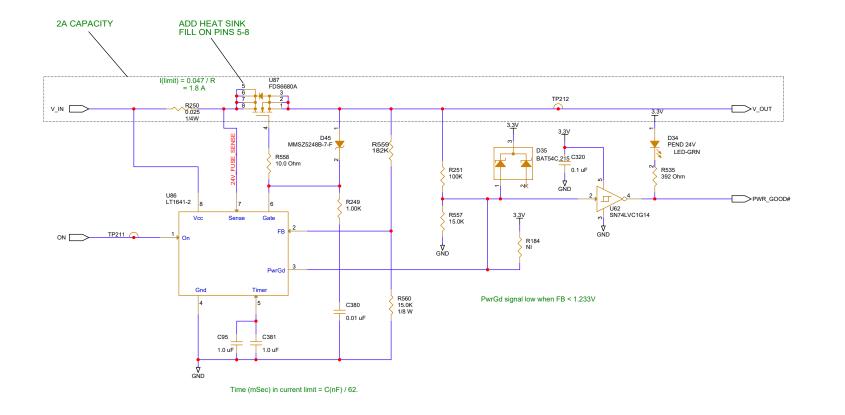






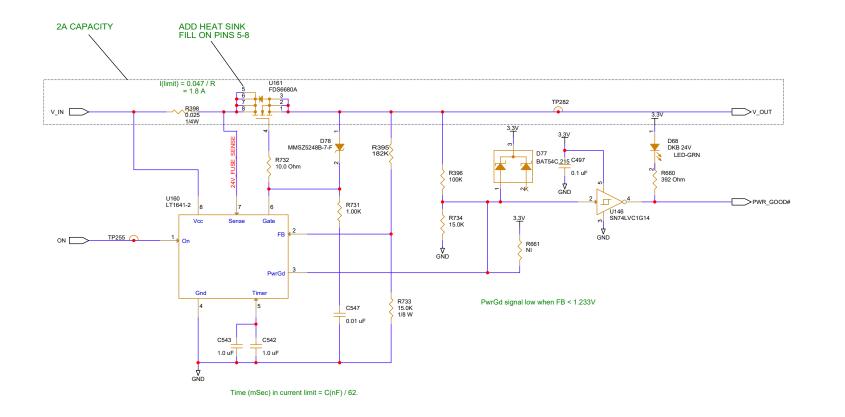






SCH, STN CONTROLLER /NETWORK IF/PENDANT IF/E FUSE PENDANT P1060967

D



VARIANTO1

VARIANTO1

SCALE
NONE
SHEET

11 OF 47

SCH, STN CONTROLLER
INETWORK IF/E FUSE DKB

DWG NO
P1060967

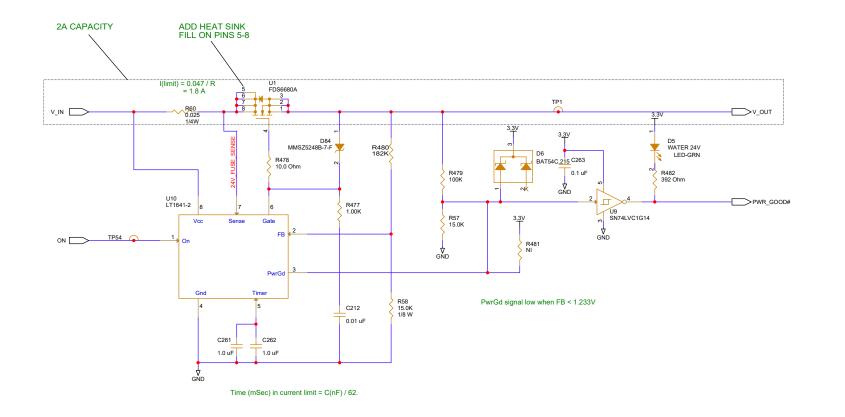
REV
D

Releas

Ver: (

Rev:

47 Jovember 2



VARIANTO1

VARIANTO1

SCALE
NONE
SHEET
12 OF 47

SCH, STN CONTROLLER
WATER IF/E FUSE WATER

DWG NO
P1060967

REV
D

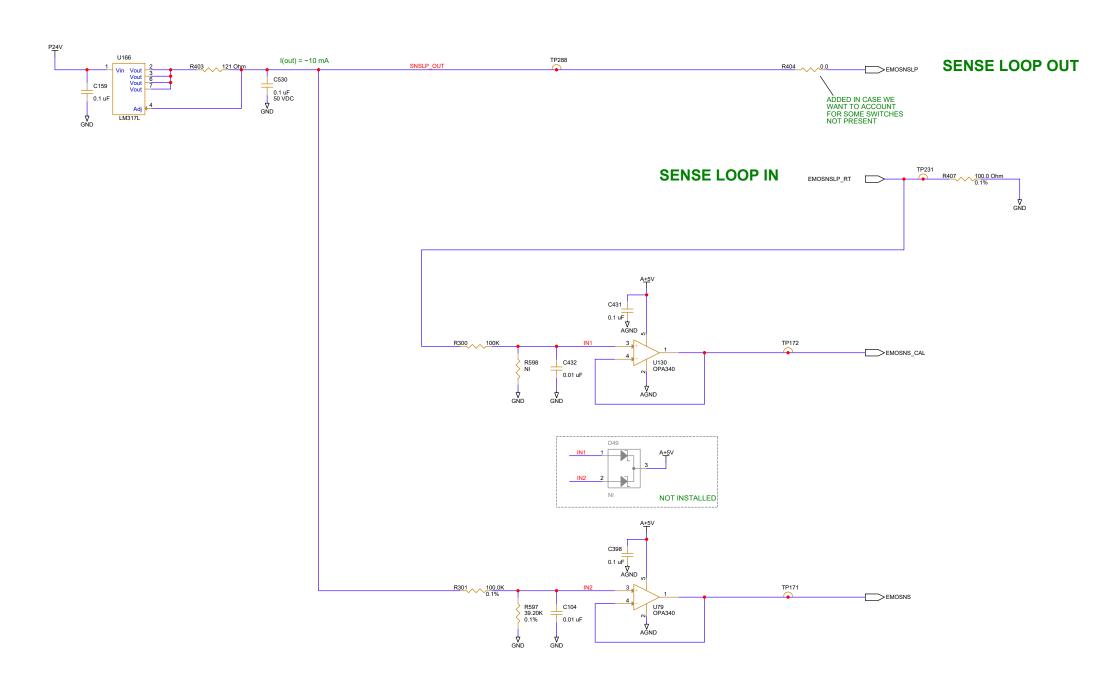
3 Ref

Rev: D

47 mper 2024

EMO Sense Loop: Up to 4 EMO buttons in series. Activated button shorts resistor in EMOSNSLP line.

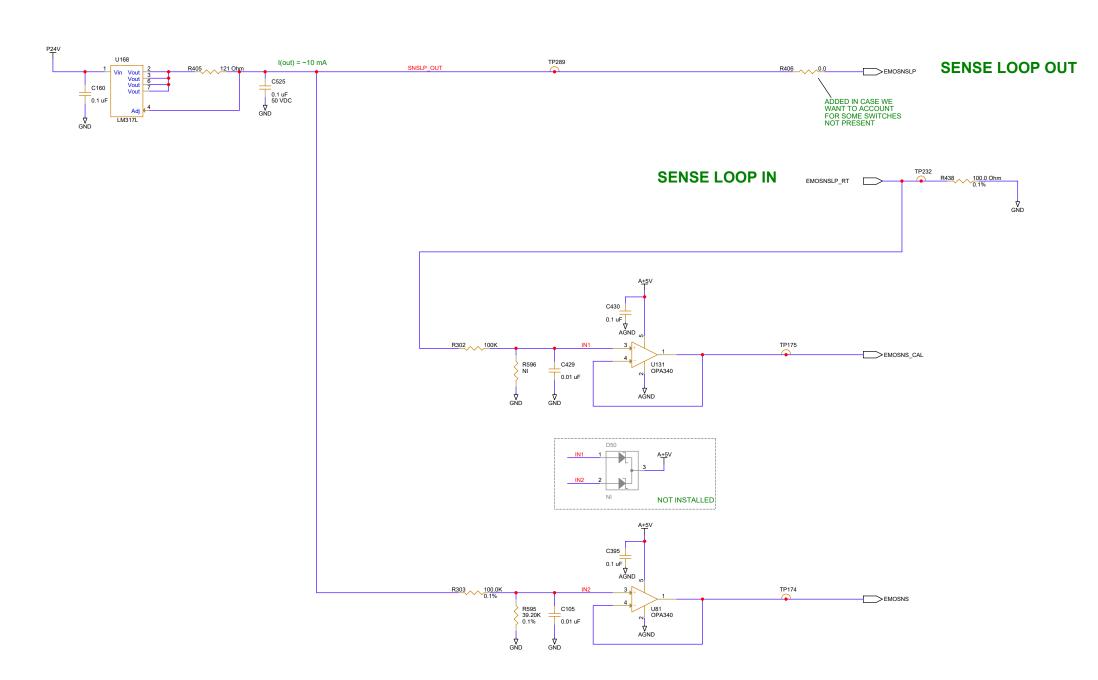
Circuit is configured for external resistor values: 42.2, 84.5, 169, 340





EMO Sense Loop: Up to 4 EMO buttons in series. Activated button shorts resistor in EMOSNSLP line.

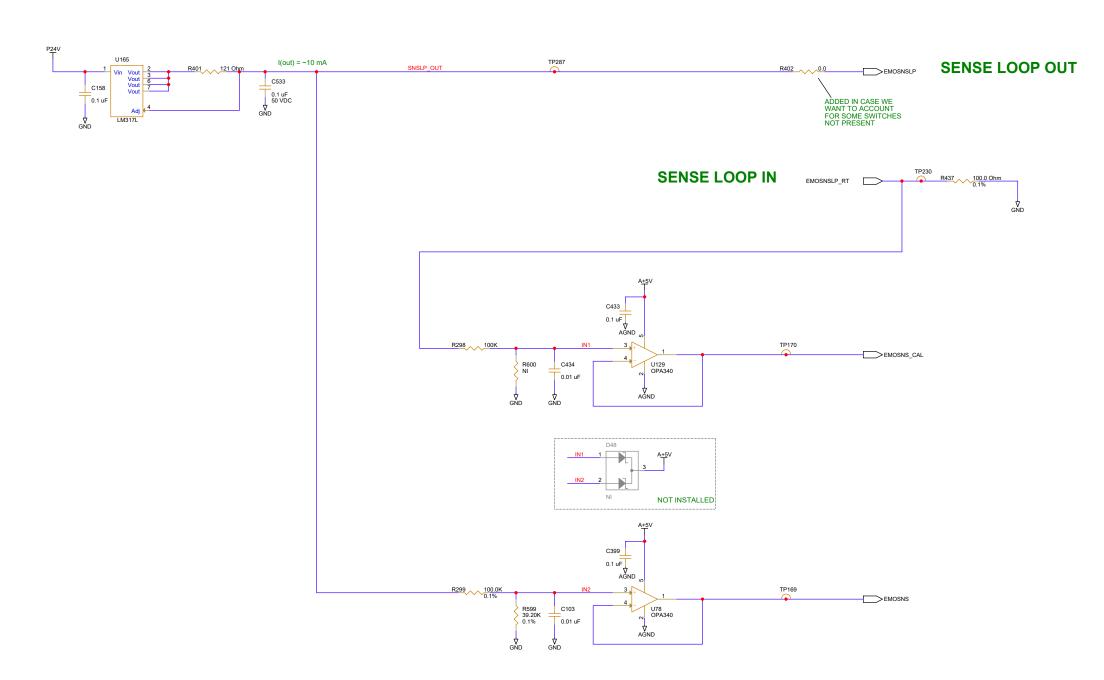
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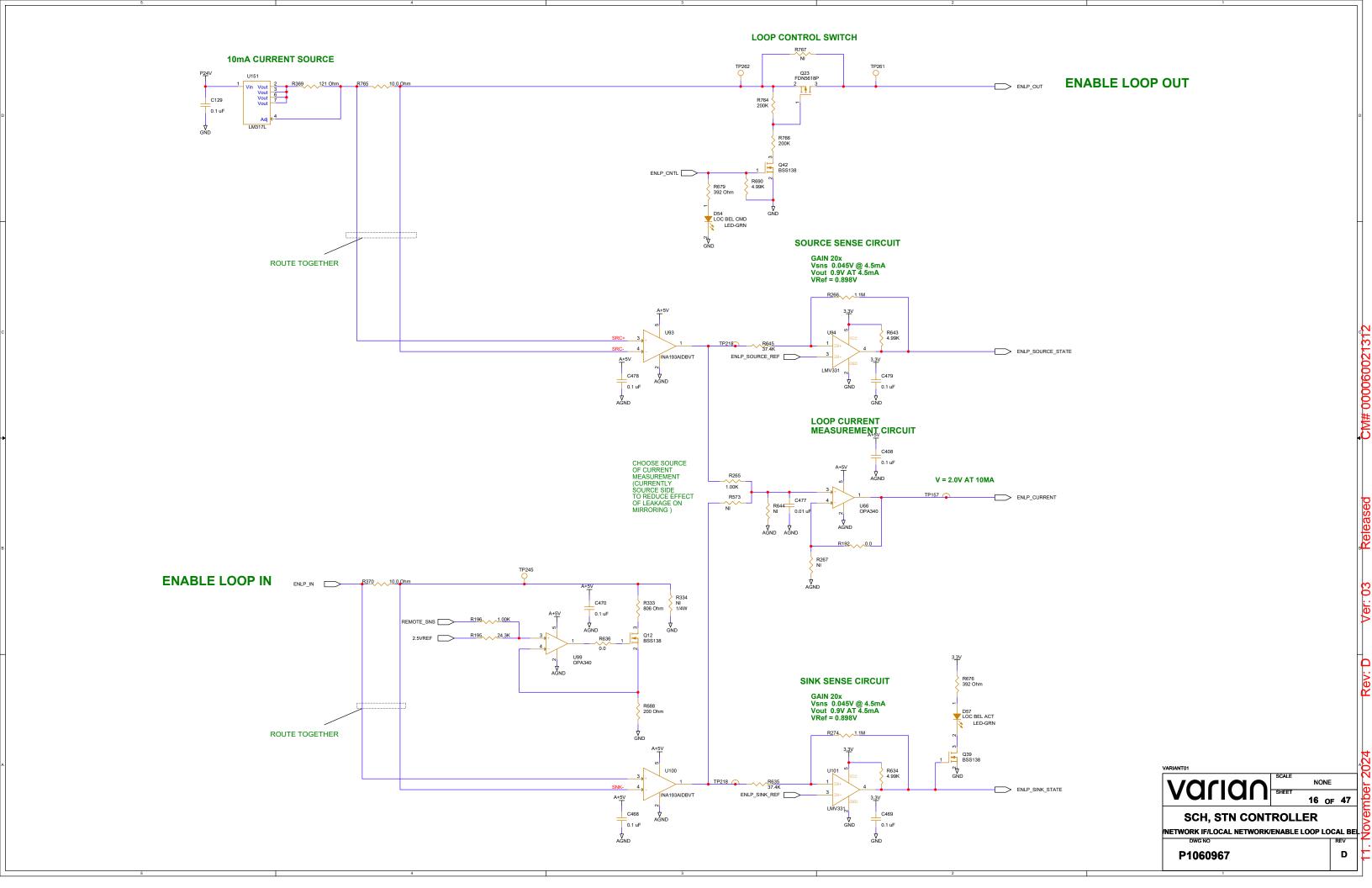


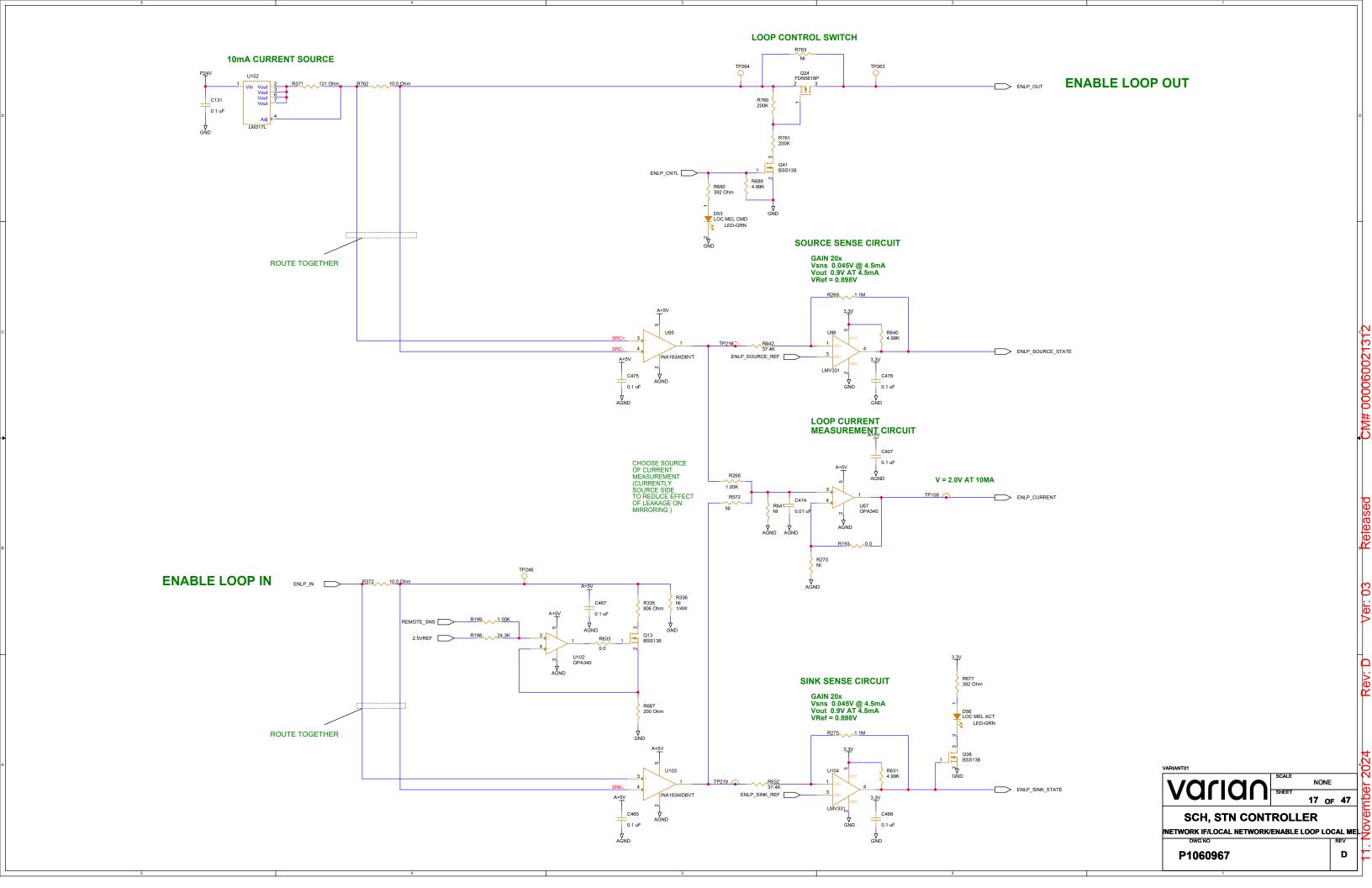
EMO Sense Loop: Up to 4 EMO buttons in series. Activated button shorts resistor in EMOSNSLP line.

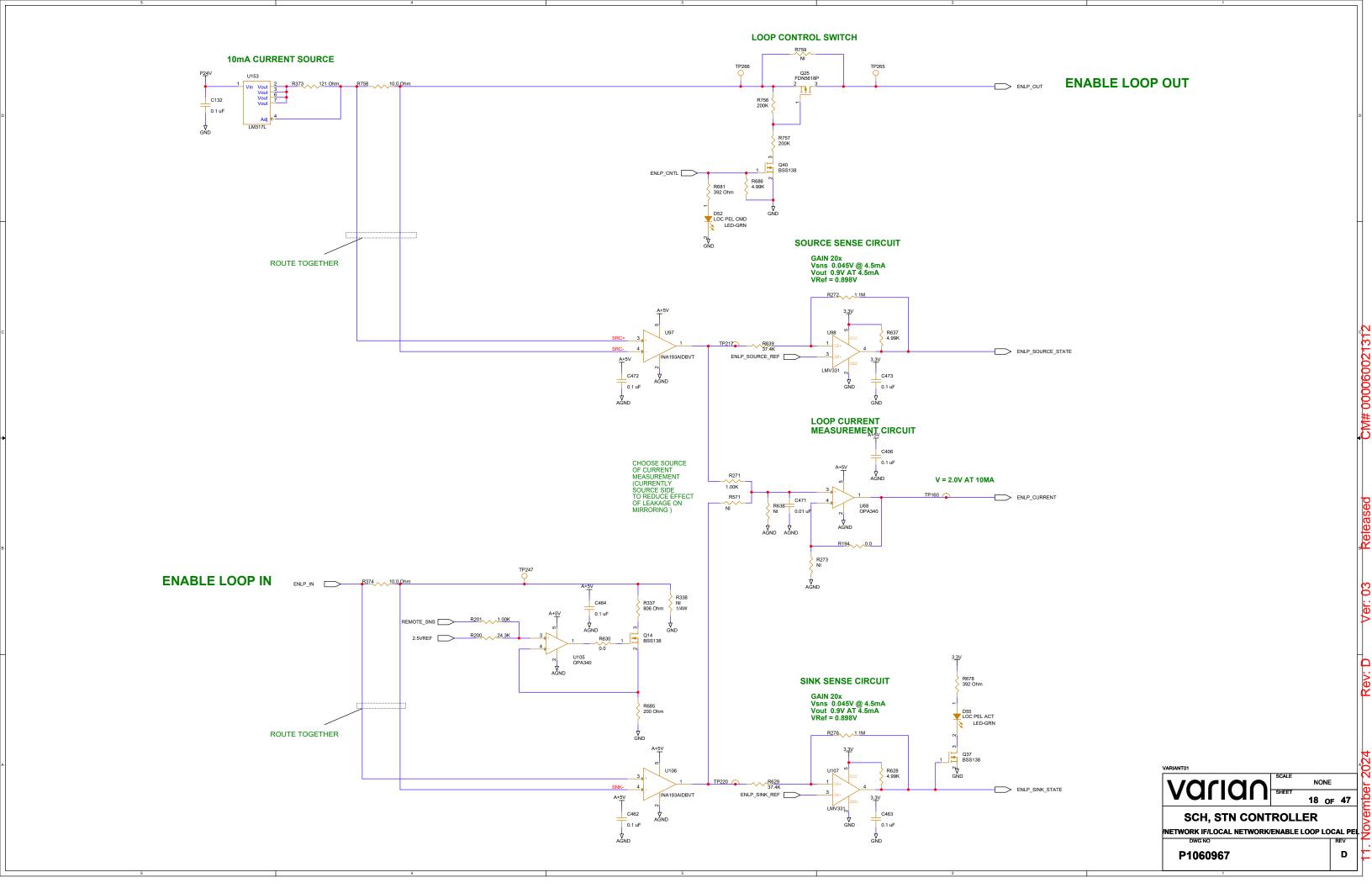
Circuit is configured for external resistor values: 42.2, 84.5, 169, 340

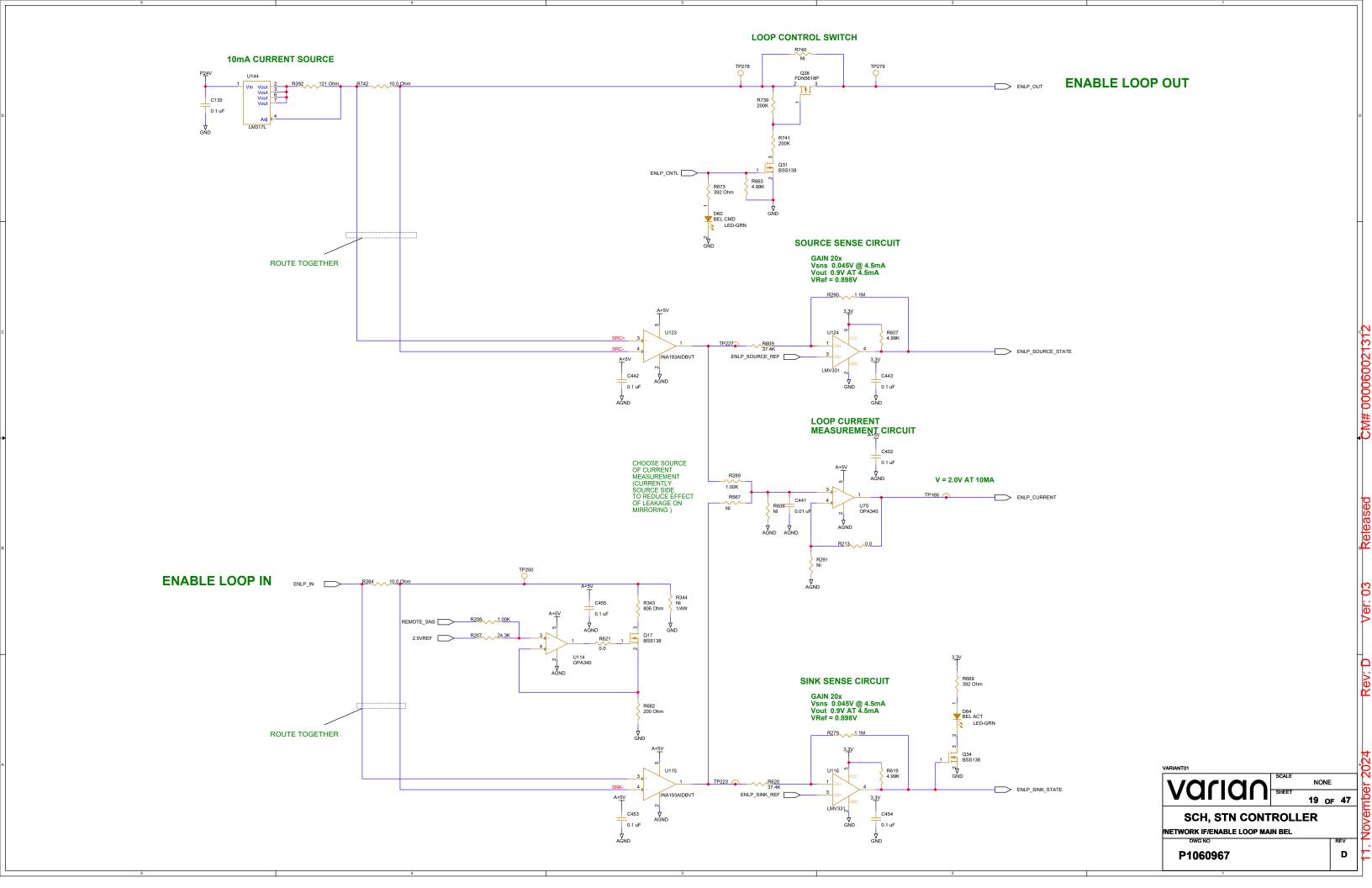


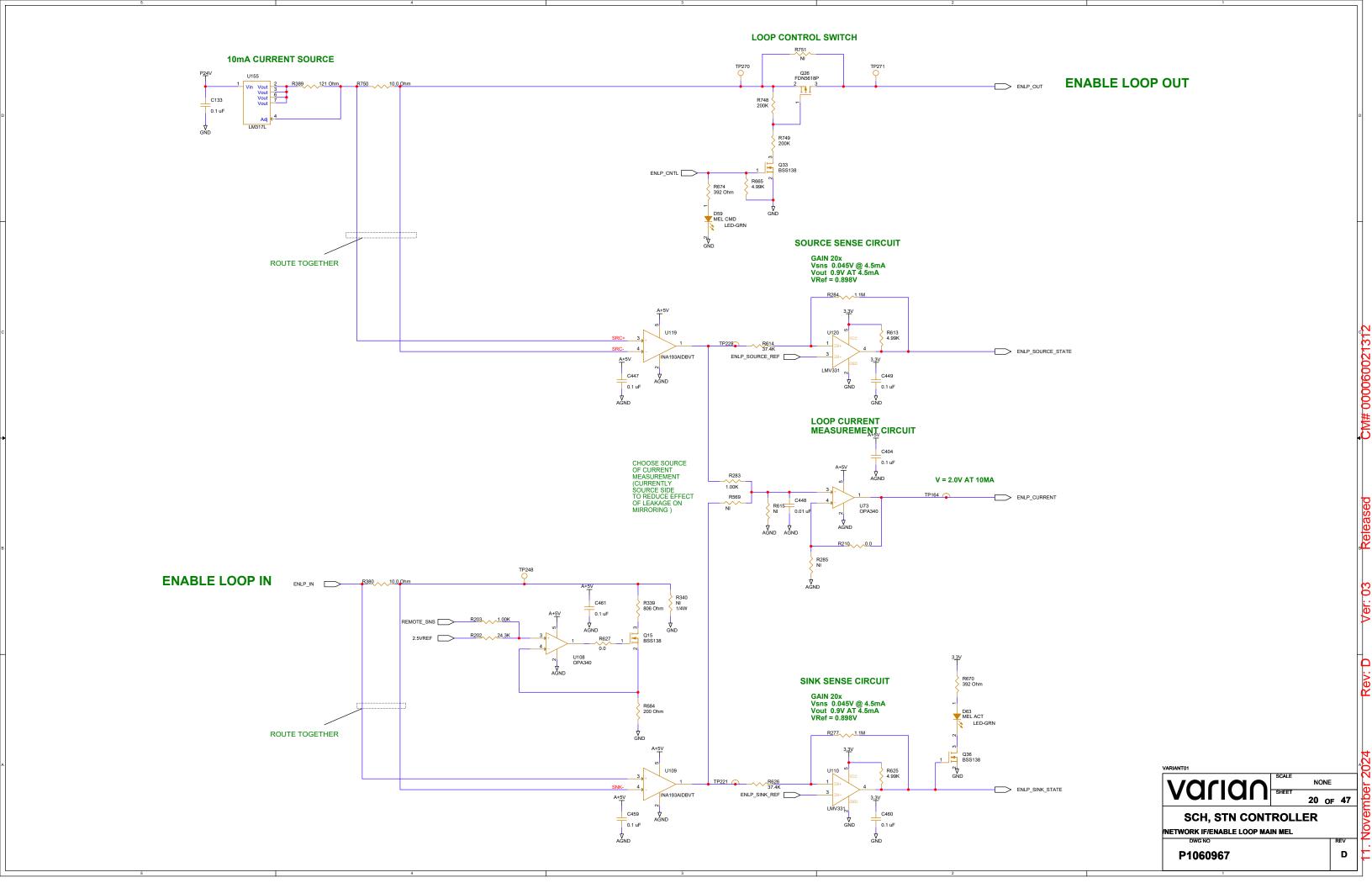


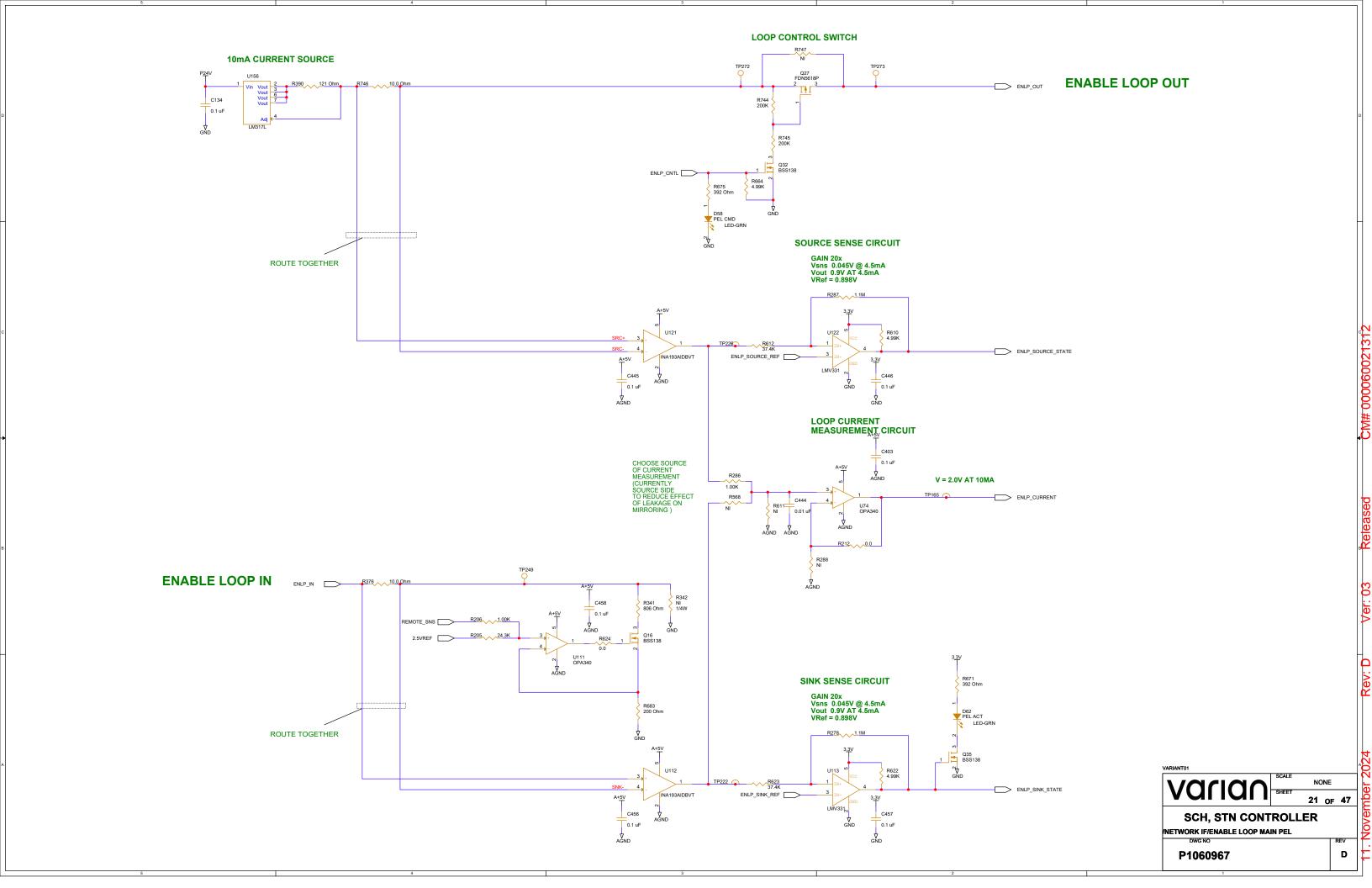


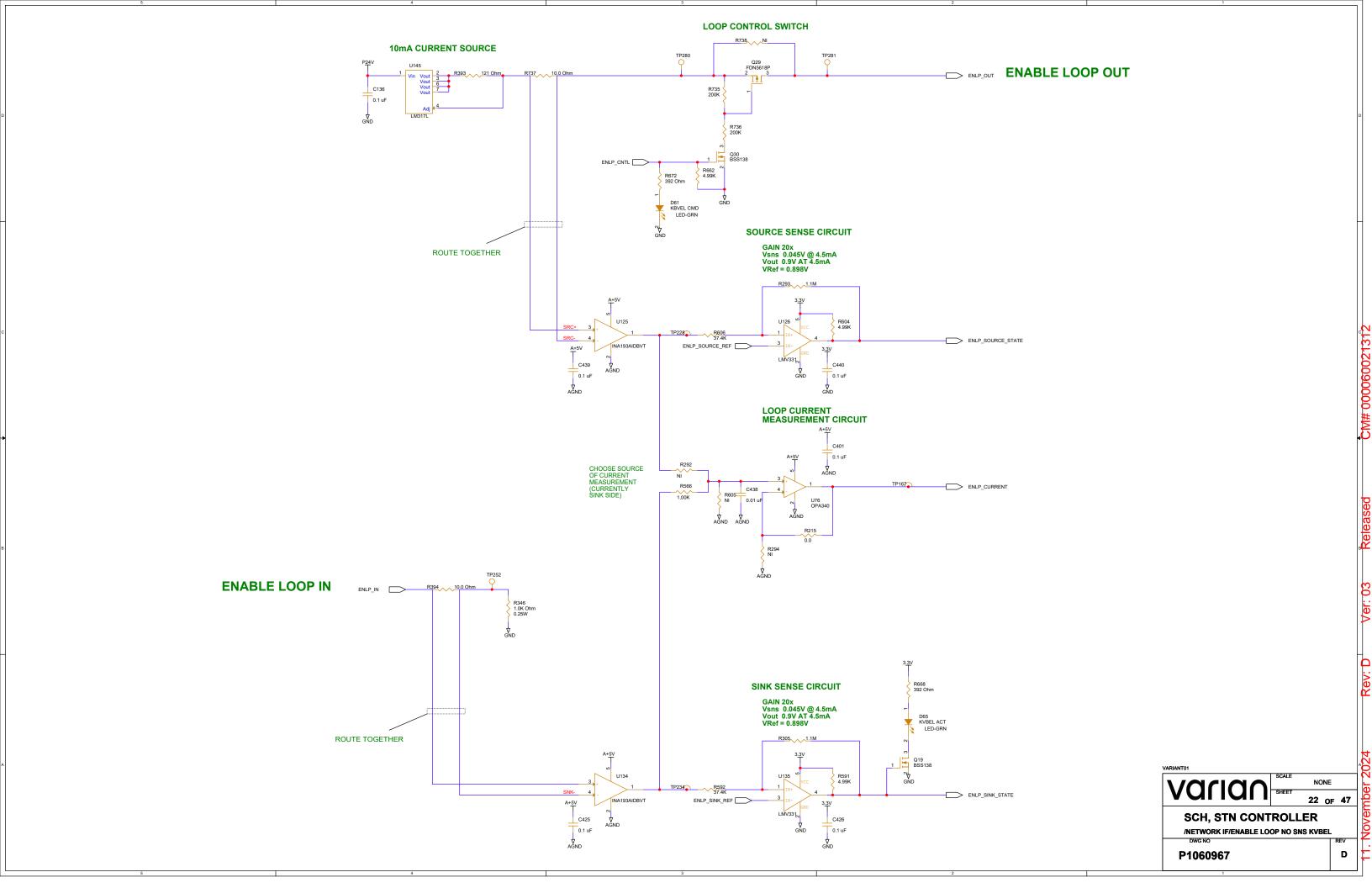


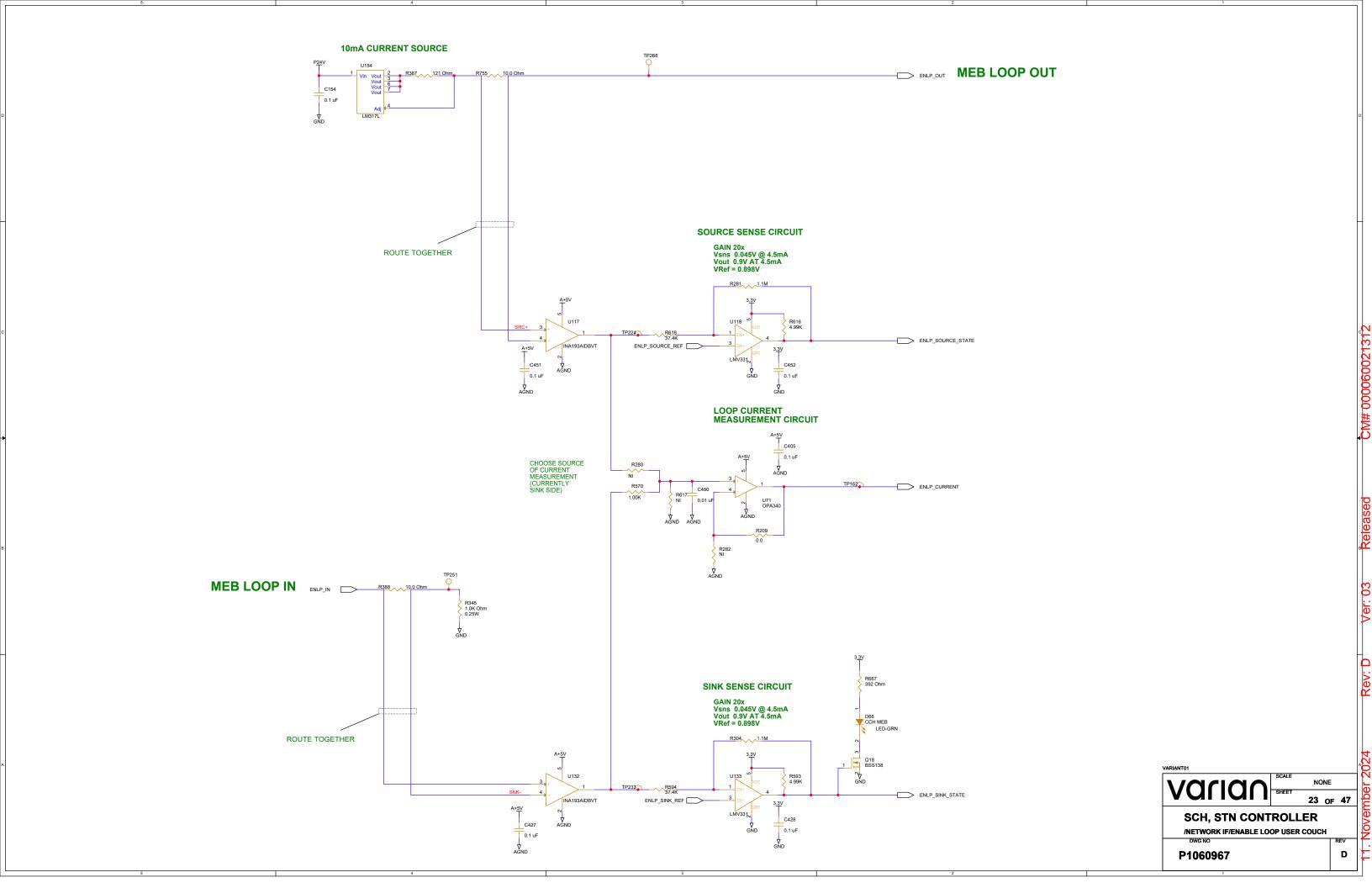


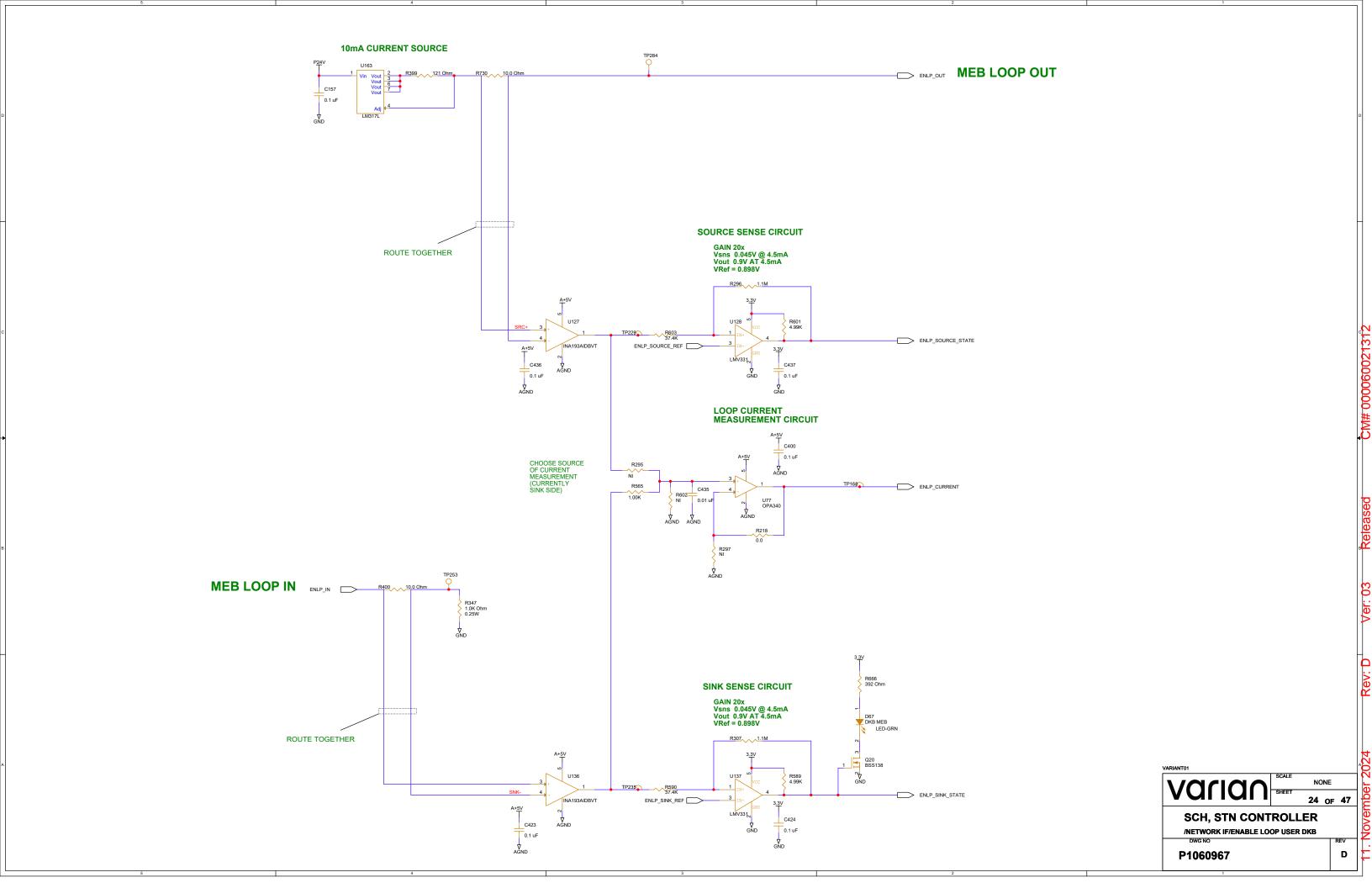


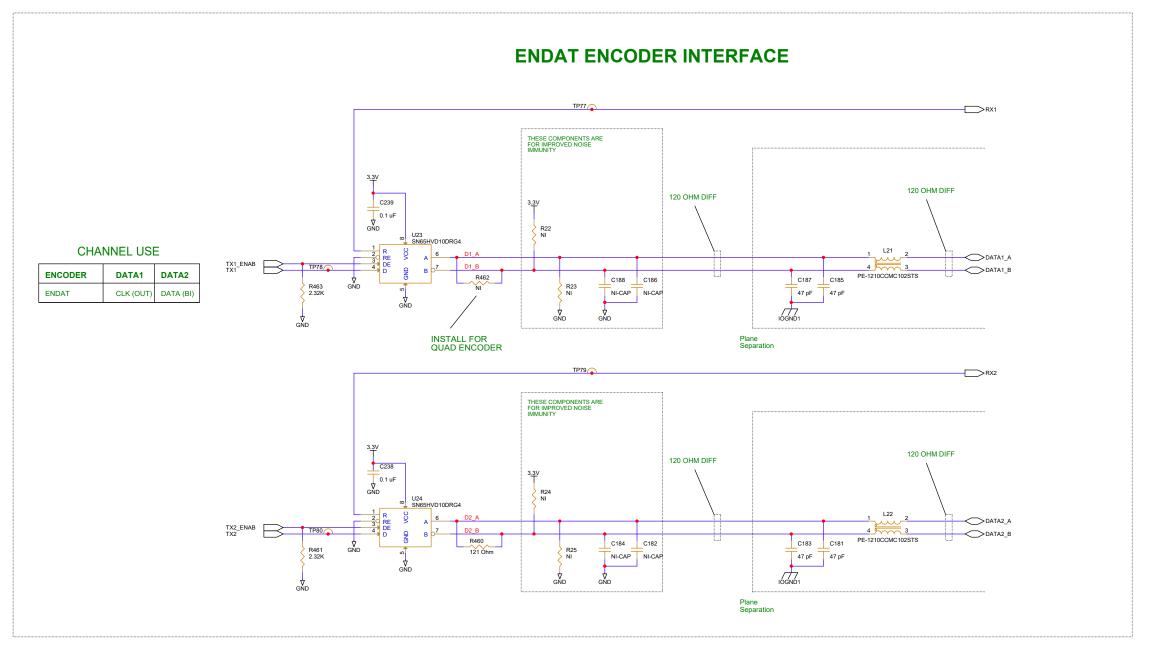


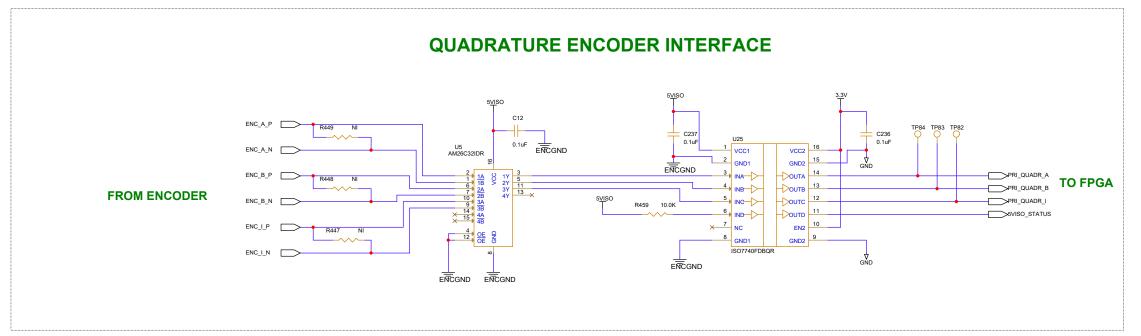






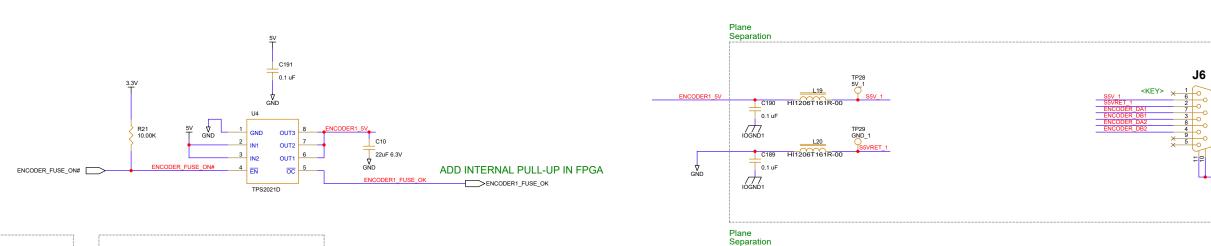






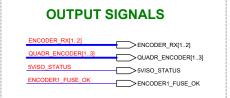


ENDAT AND QUADRATURE ENCODER INTERFACE

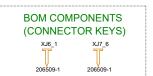


INPUT SIGNALS

ENCODER_TX[1..2] ENCODER_TX[1..2] ENCODER_TX_ENAB[1..2] ENCODER_TX_ENAB[1..2]

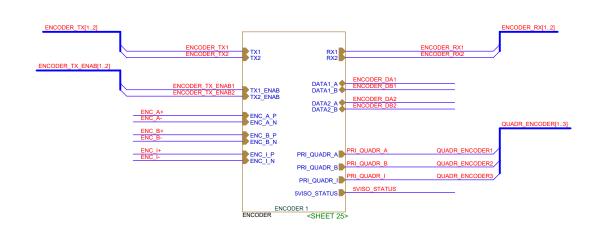


J7 QUADRATURE ENCODER 4 - POWER SUPPLY +
12 - SENSOR POWER SUPPLY +
2 - GROUND
10 - SENSOR GROUND
SENSOR WIRE IS INTERNALLY CONNECTED
TO CORRESPONDING POWER SUPPLY ENCGND ENCGND



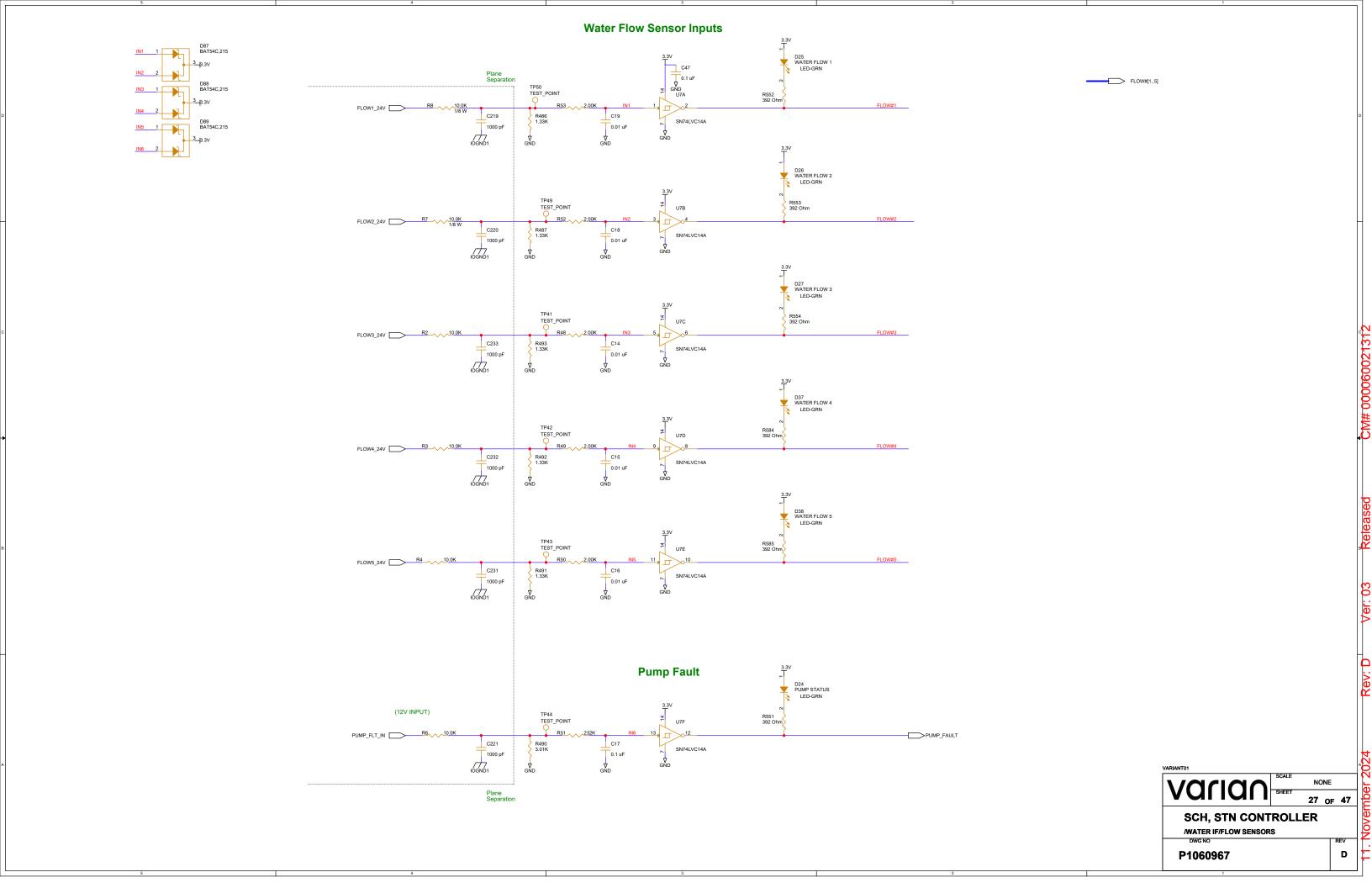
ENCODER CHANNEL ASSIGNMENT

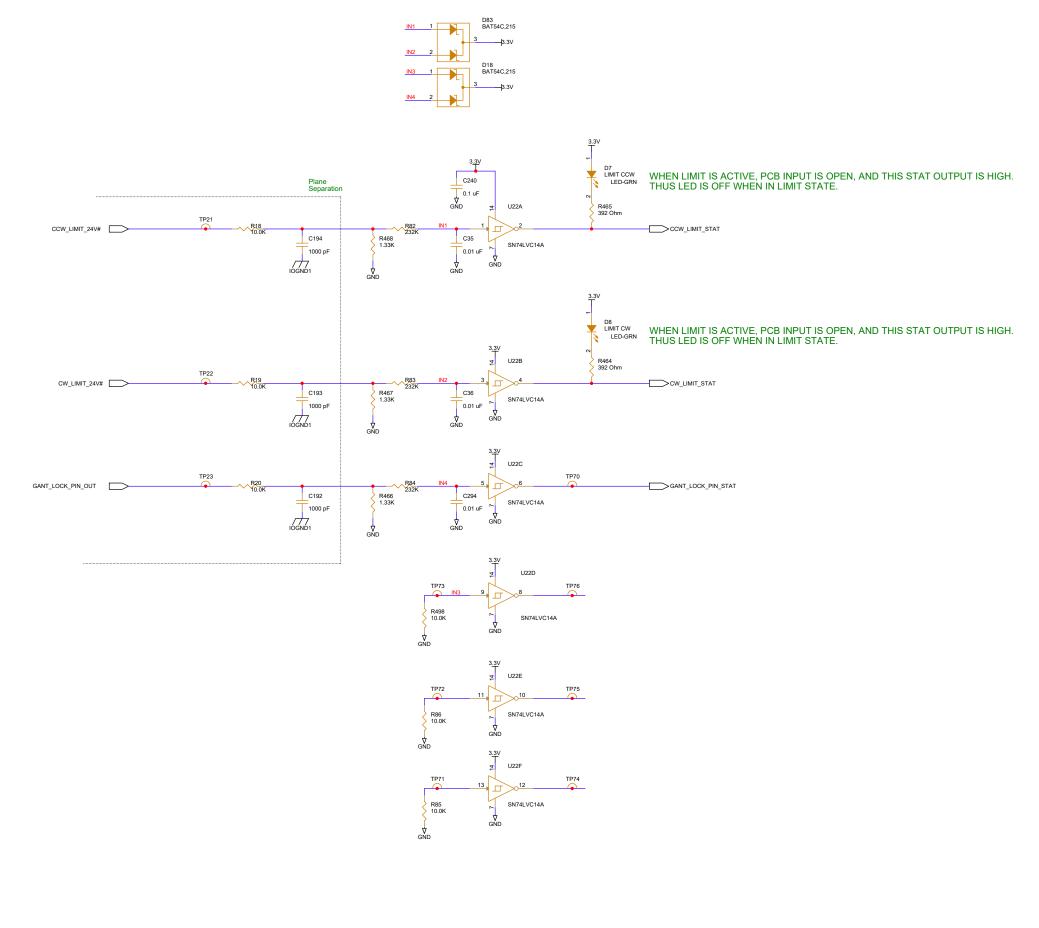
ENDAT CLK ENDAT DATA



SCH, STN CONTROLLER /GANTRY ROTATION IF/ENCODER IF D P1060967

ENDAT ENCODER





VARIANTO1

VOCATION

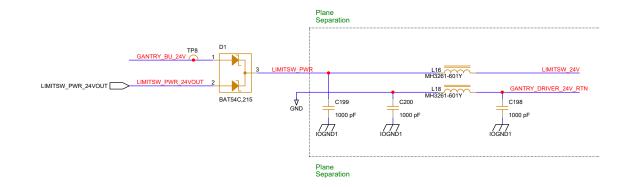
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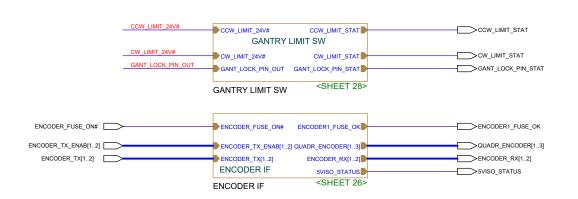
28 OF 47

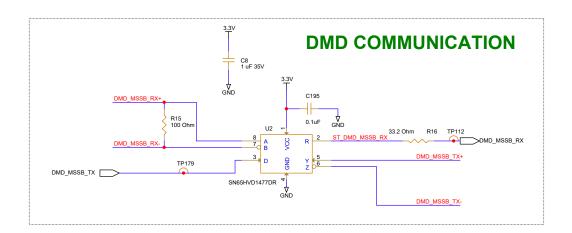
SCH, STN CONTROLLER
//GANTRY ROTATION IF/GANTRY LIMIT SW

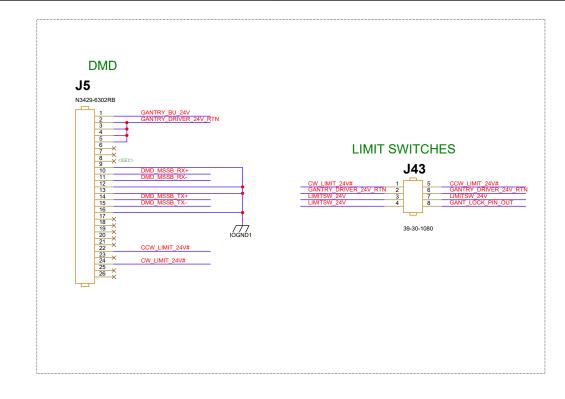
DWG NO
P1060967

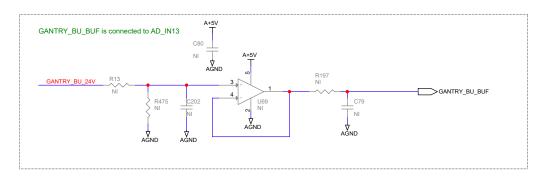
REV
D



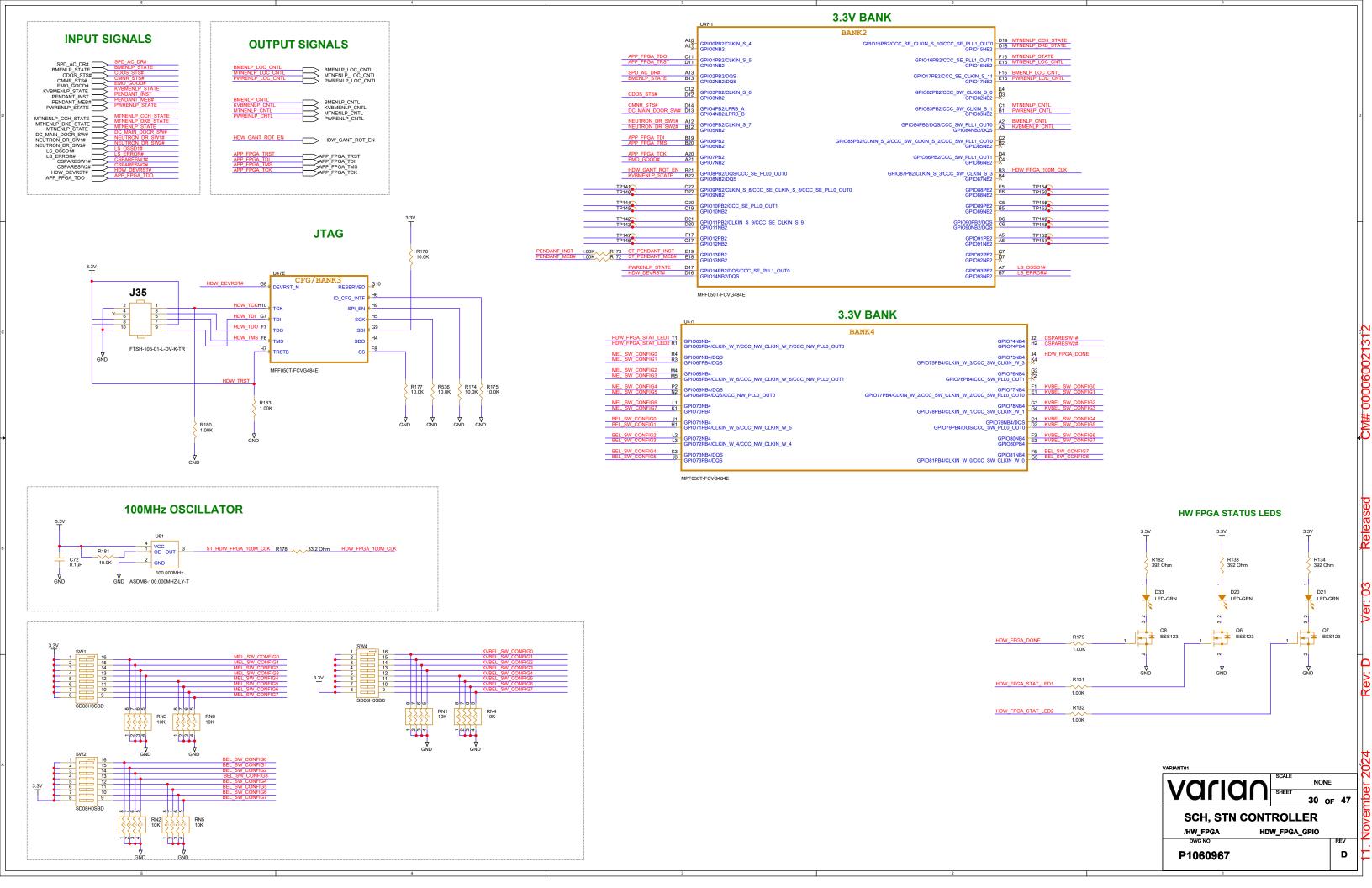


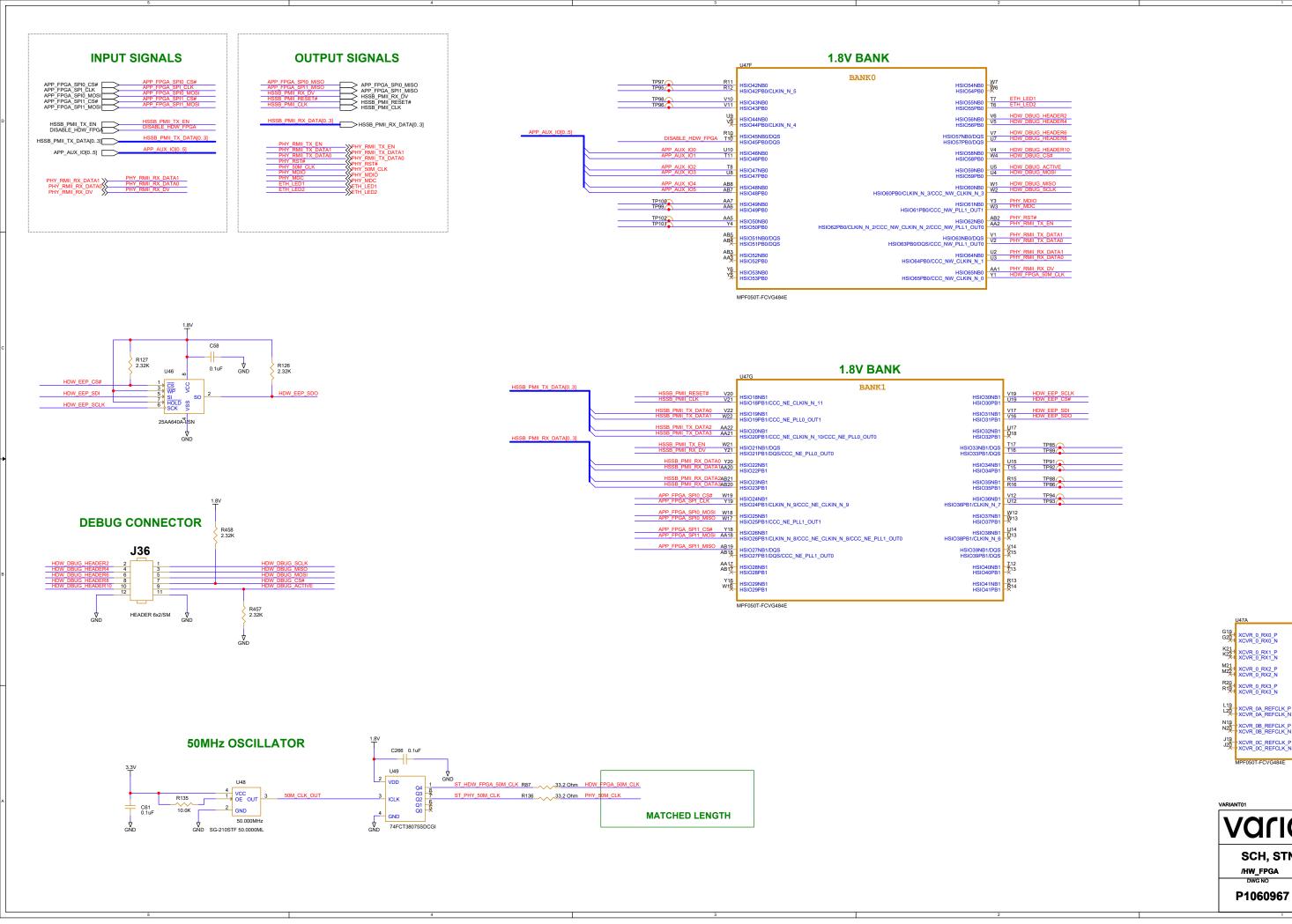


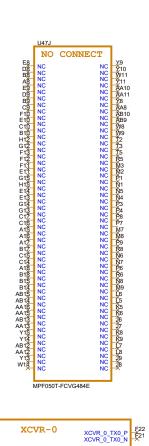












XCVR_0_TX1_P H22 XCVR_0_TX1_N XCVR_0_TX1_N XCVR_0_TX2_P P21 XCVR_0_TX2_N P21

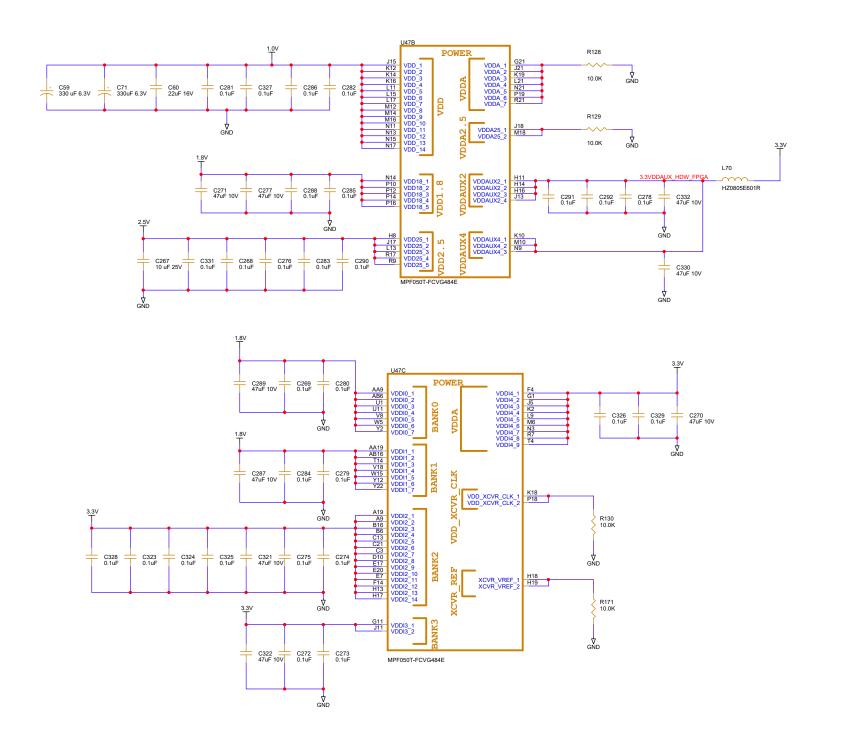
SCH, STN CONTROLLER

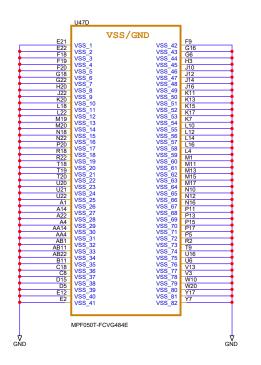
HDW_FPGA_HSIO

D

/HW_FPGA

P1060967





SCALE NONE
SHEET
32 OF 47

SCH, STN CONTROLLER
//HW_FPGA HDW_FPGA_POWER

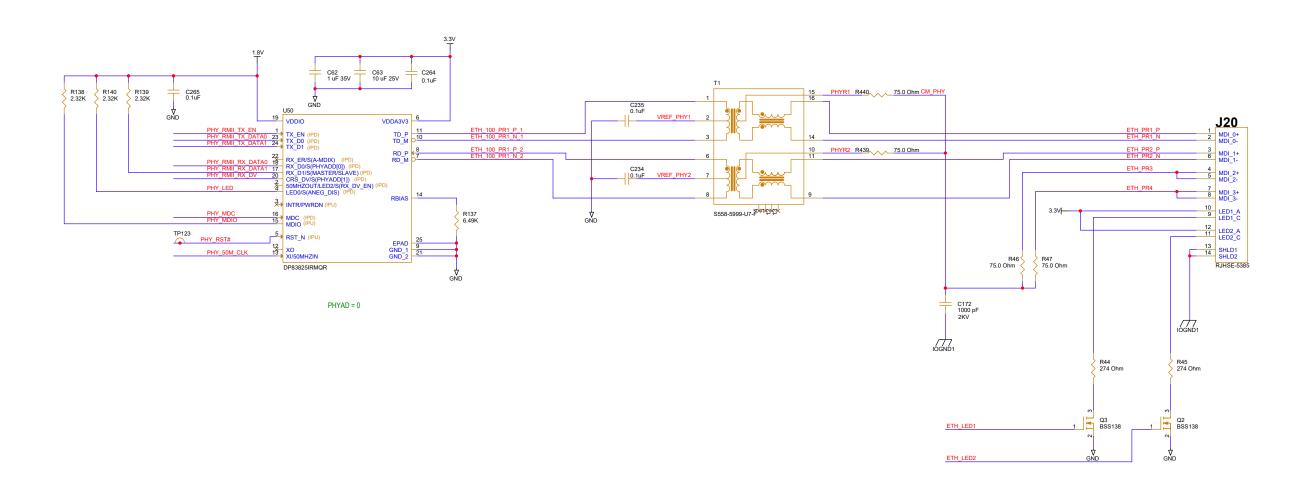
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P1060967
D

INPUT SIGNALS

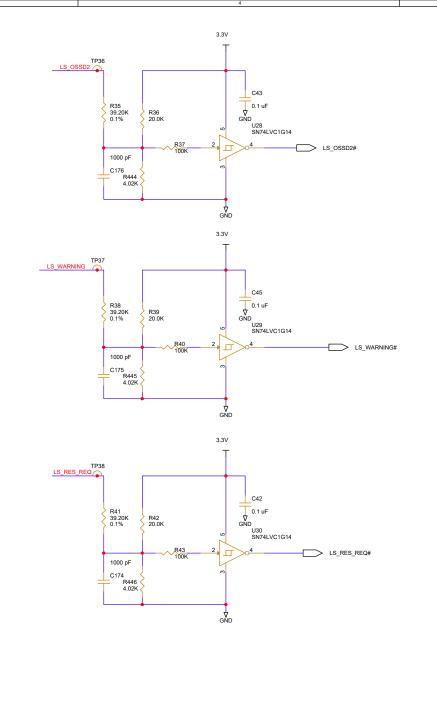
PHY MDIO
PHY MDC
PHY MDC
PHY MDC
PHY MID
PHY MIL TX EN
PHY RMIL TX EN
PHY RMIL TX DATA1
PHY RMIL TX DATA1
PHY RMIL TX DATA1
PHY RMIL TX DATA0
PHY SMIL TX DATA0
PHY RST#

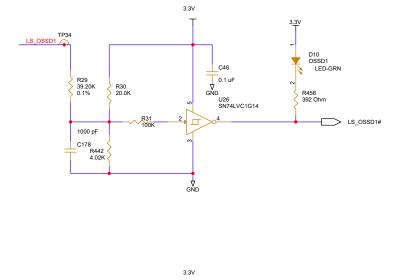
OUTPUT SIGNALS

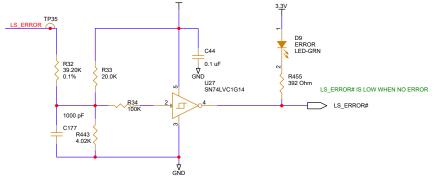
PHY_RMII_RX_DATA1
PHY_RMII_RX_DATA0
PHY_RMII_RX_DV
PHY_RMII_RX_DV
PHY_RMII_RX_DV

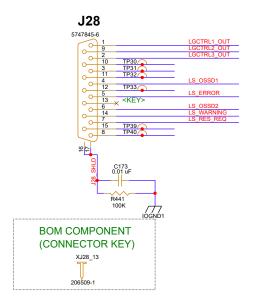








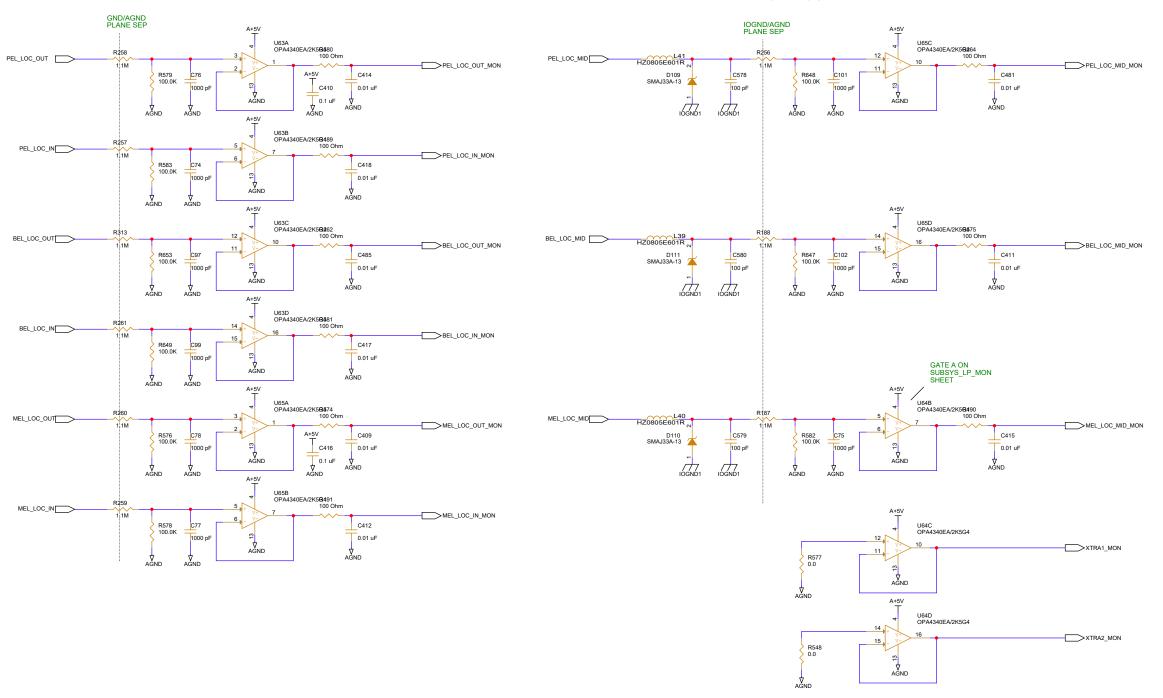




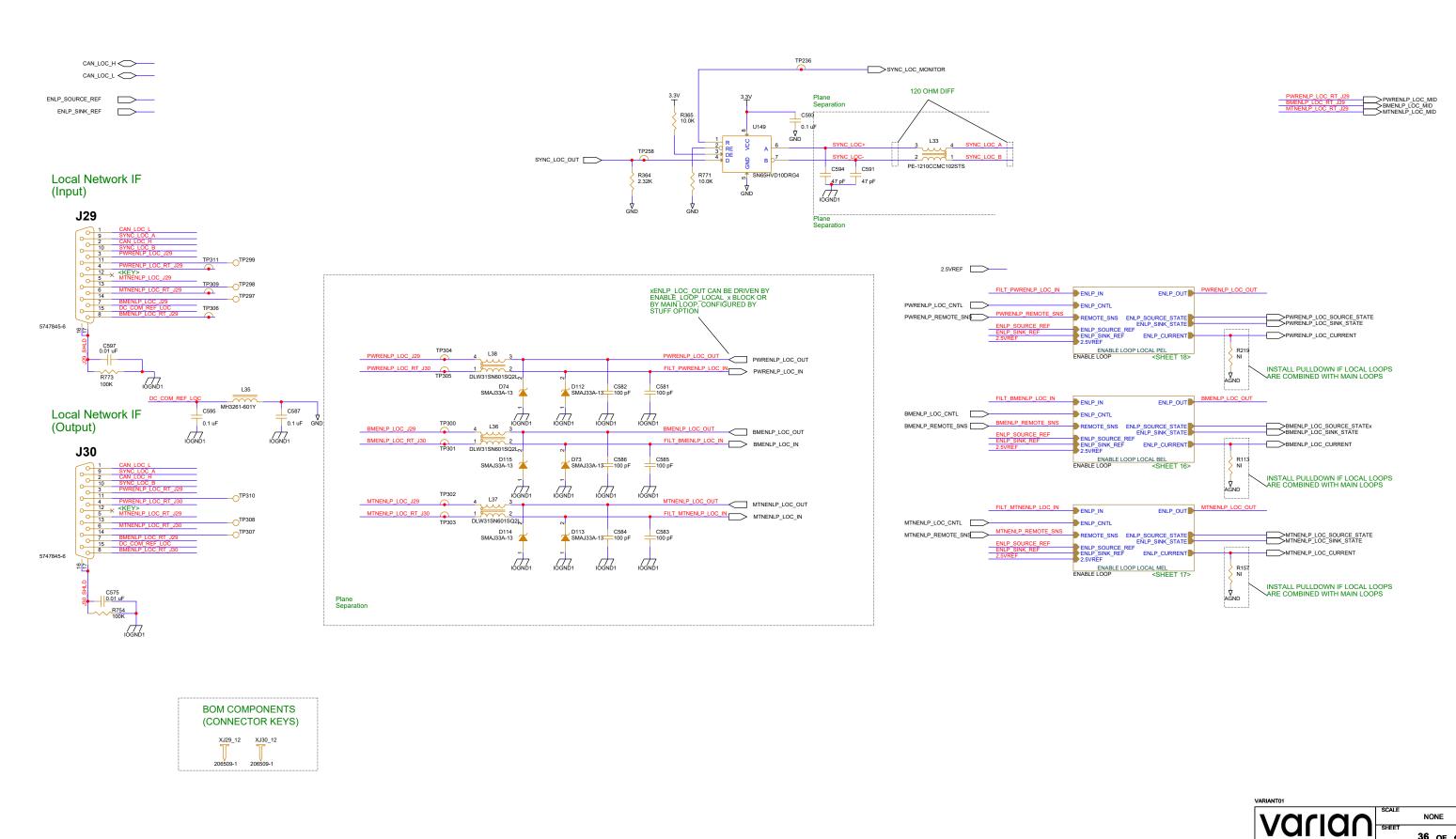
LGCTRL2_OUT
LGCTRL3_OUT
LGCTRL3_OUT



THE LOOP INPUTS MONITORED IN THIS COLUMN DO NOT HAVE FILTERS OR REVERSE PROTECTION, SO IT IS INCLUDED HERE.





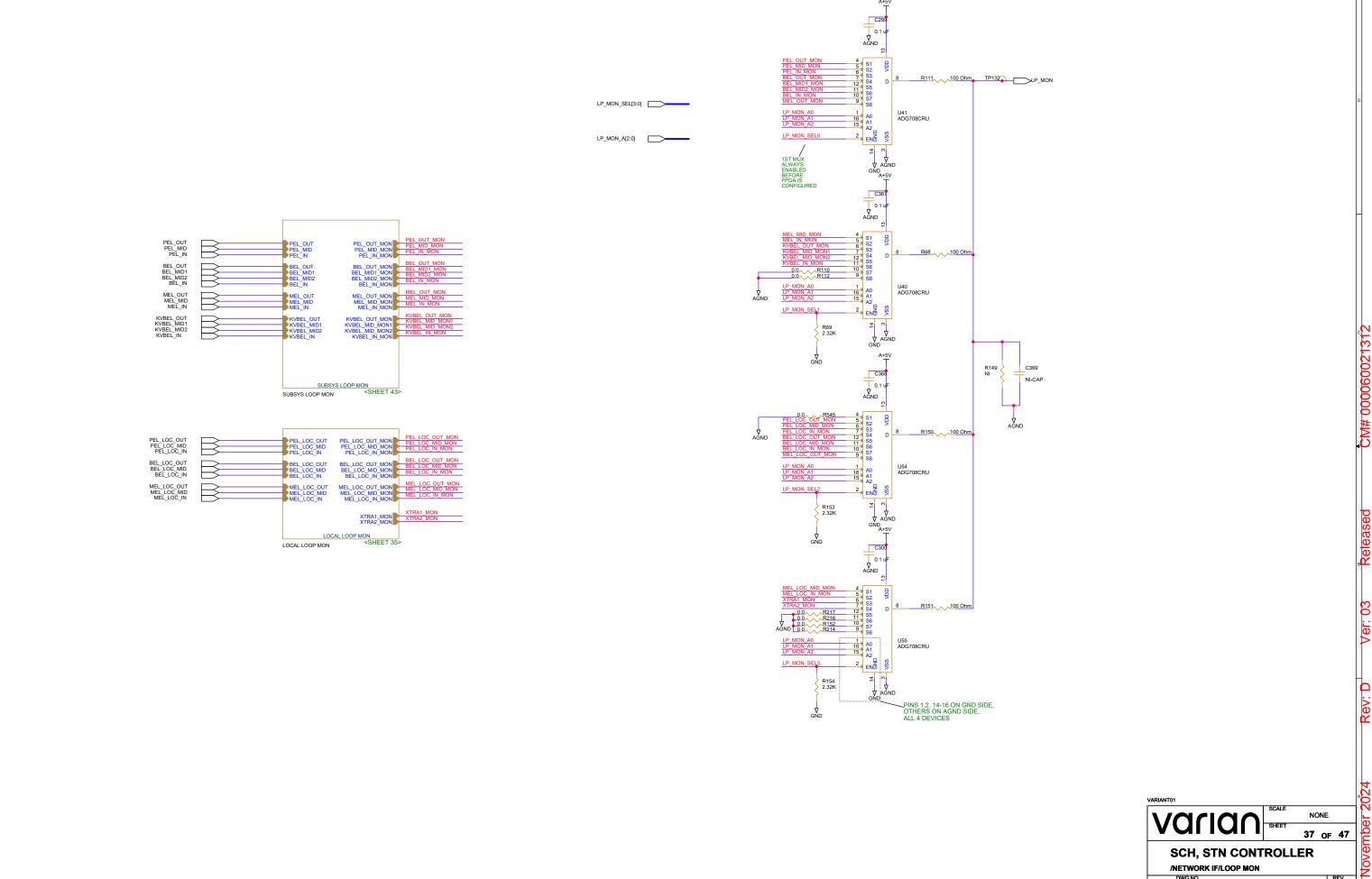


47 W D

SCH, STN CONTROLLER

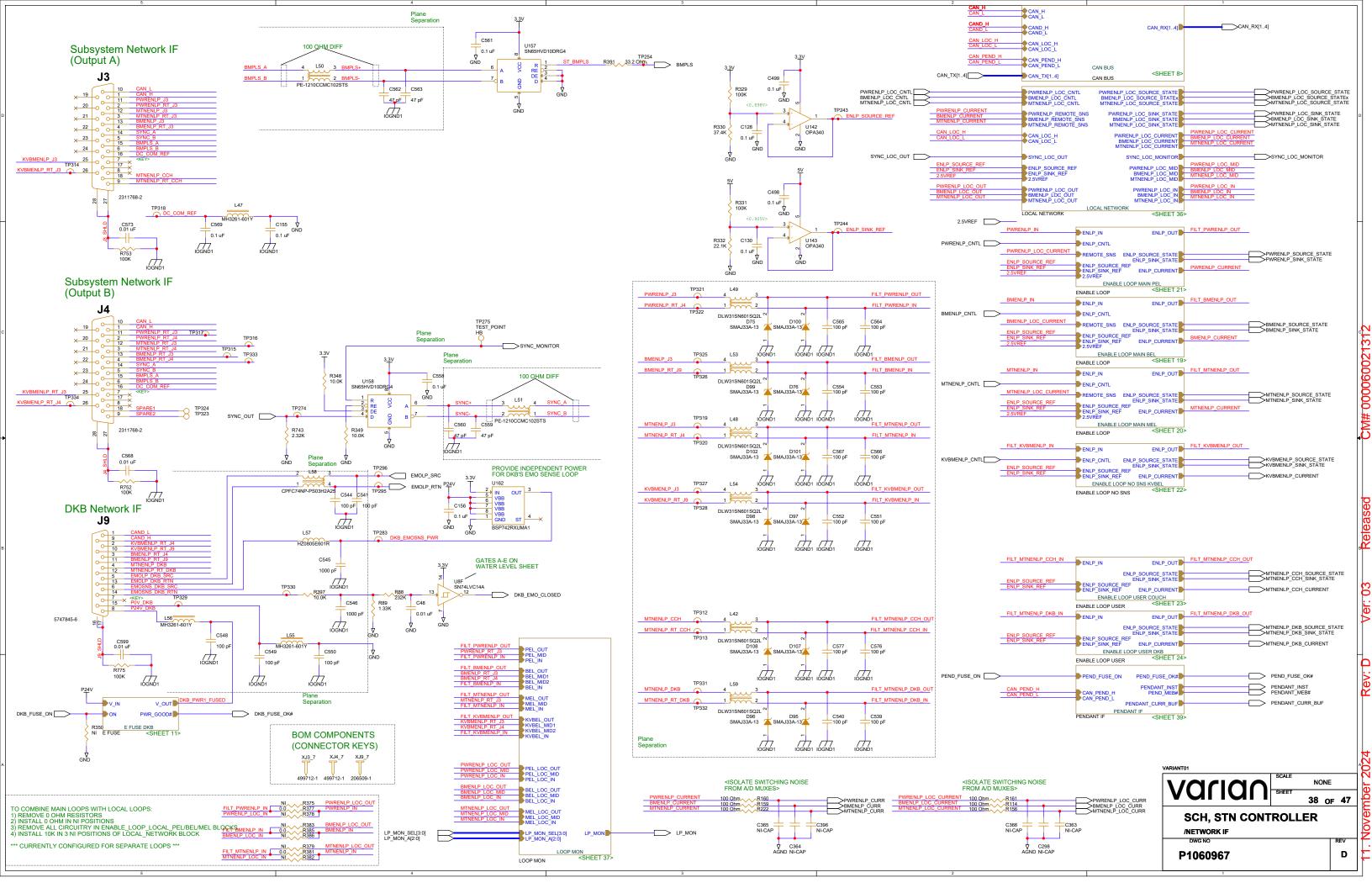
/NETWORK IF/LOCAL NETWORK

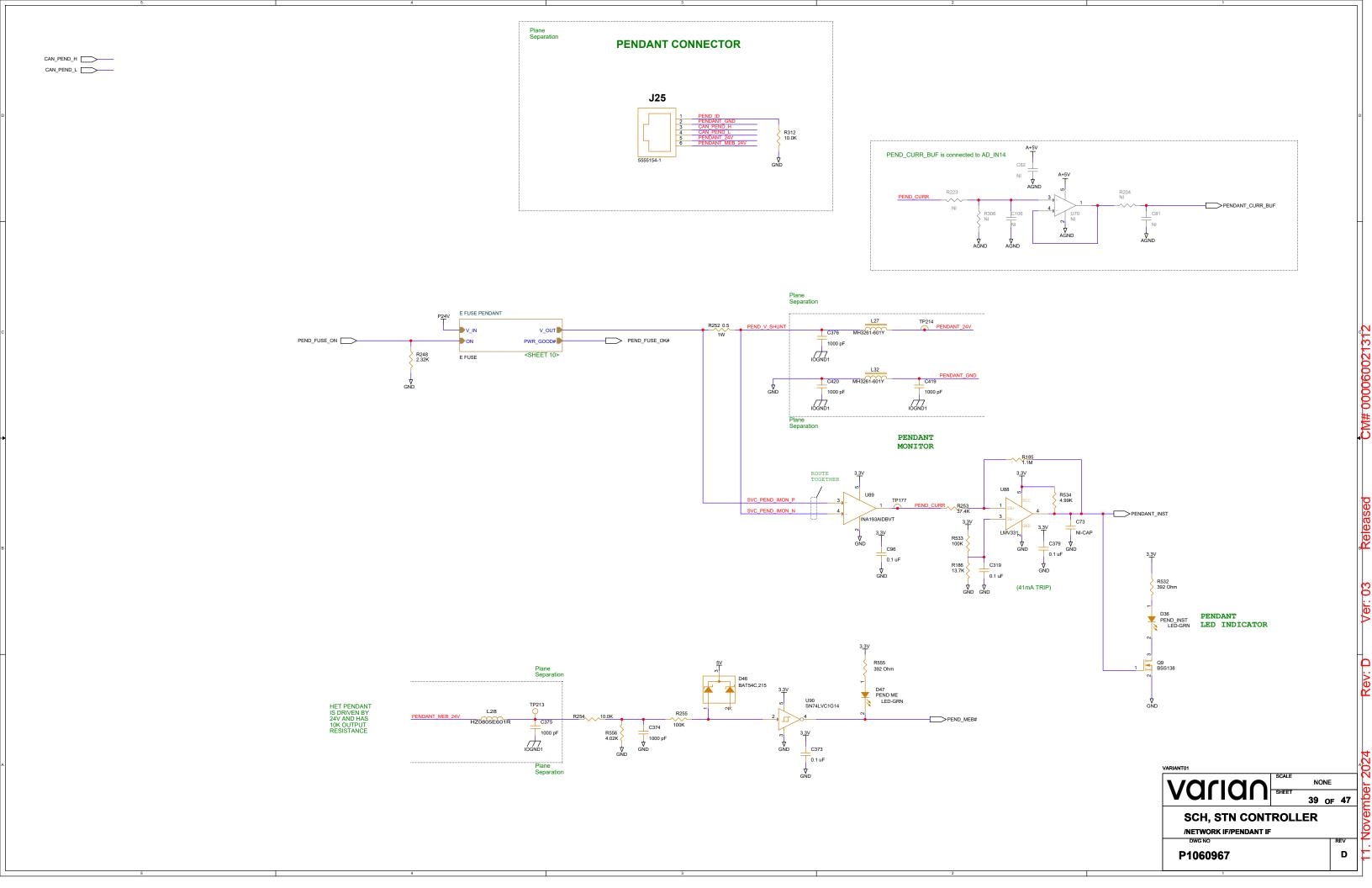
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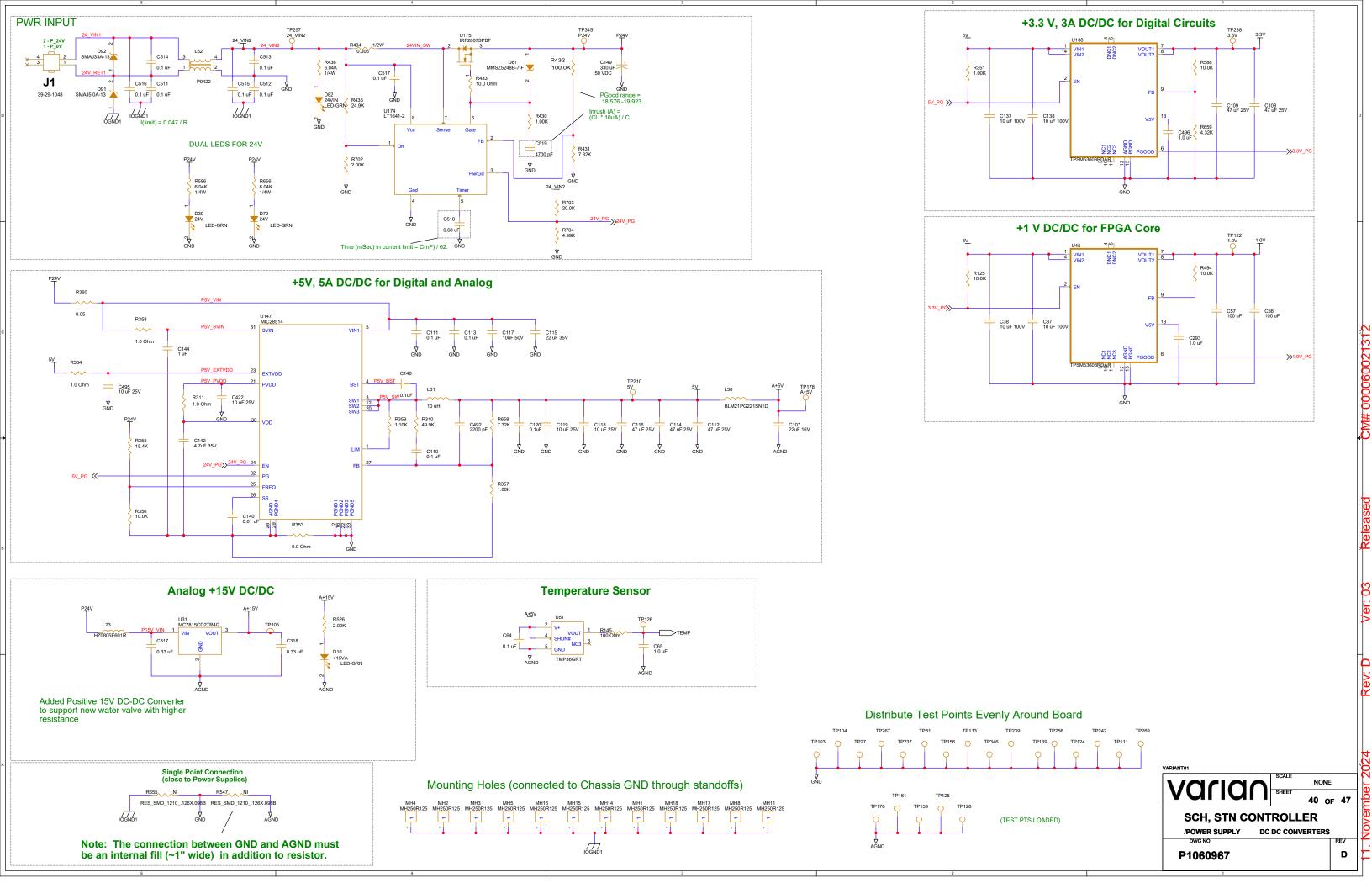


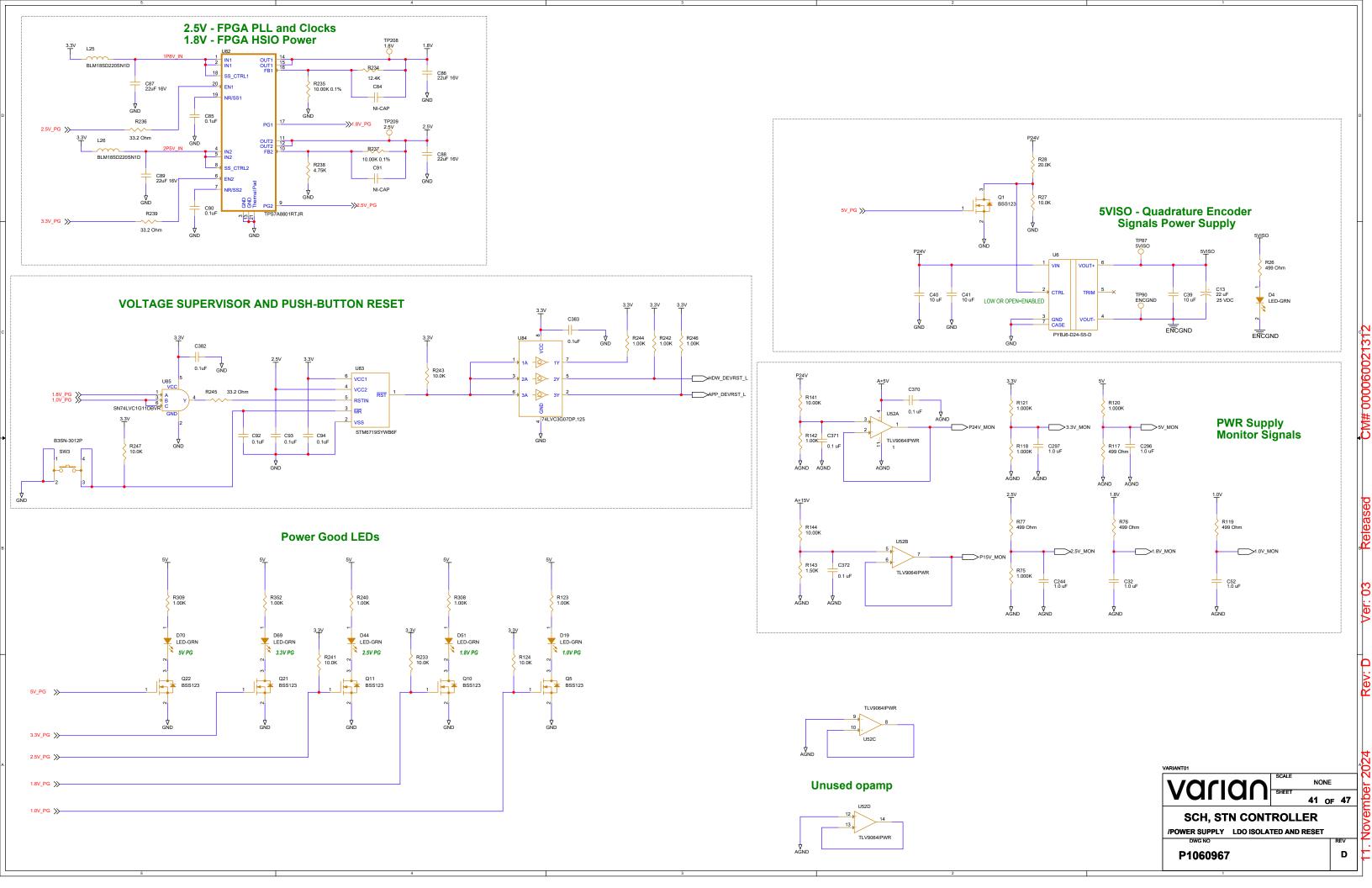
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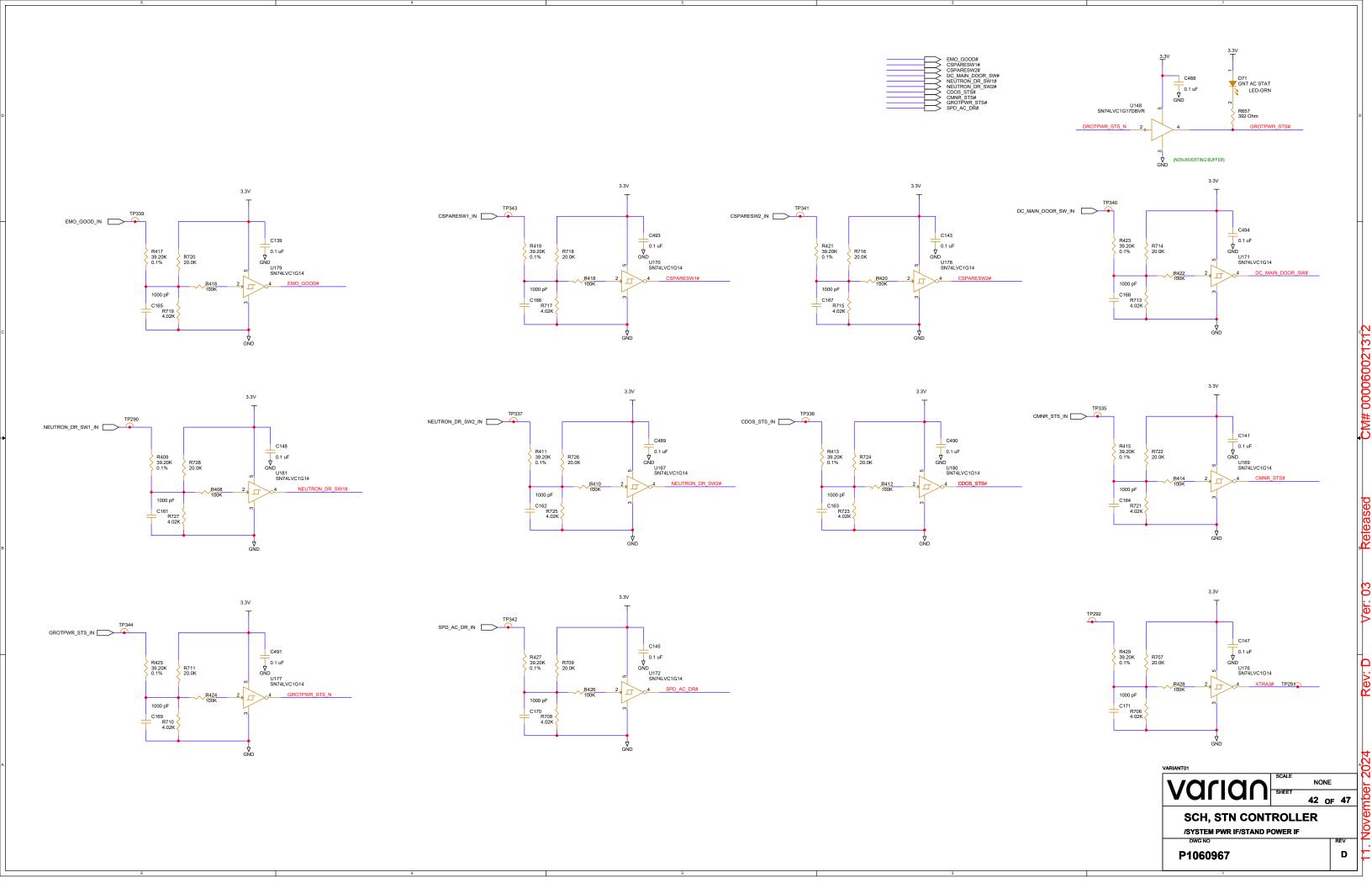
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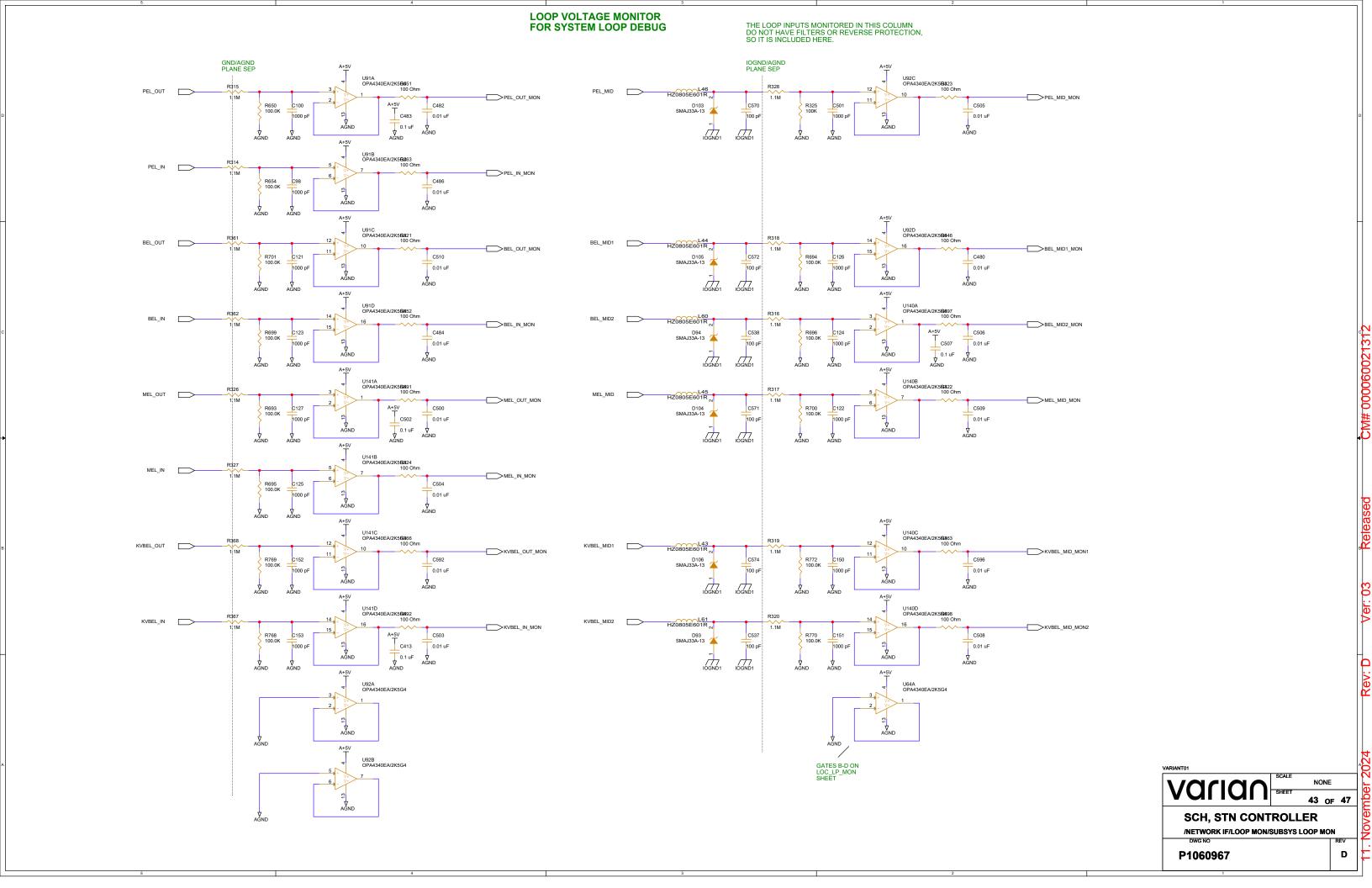


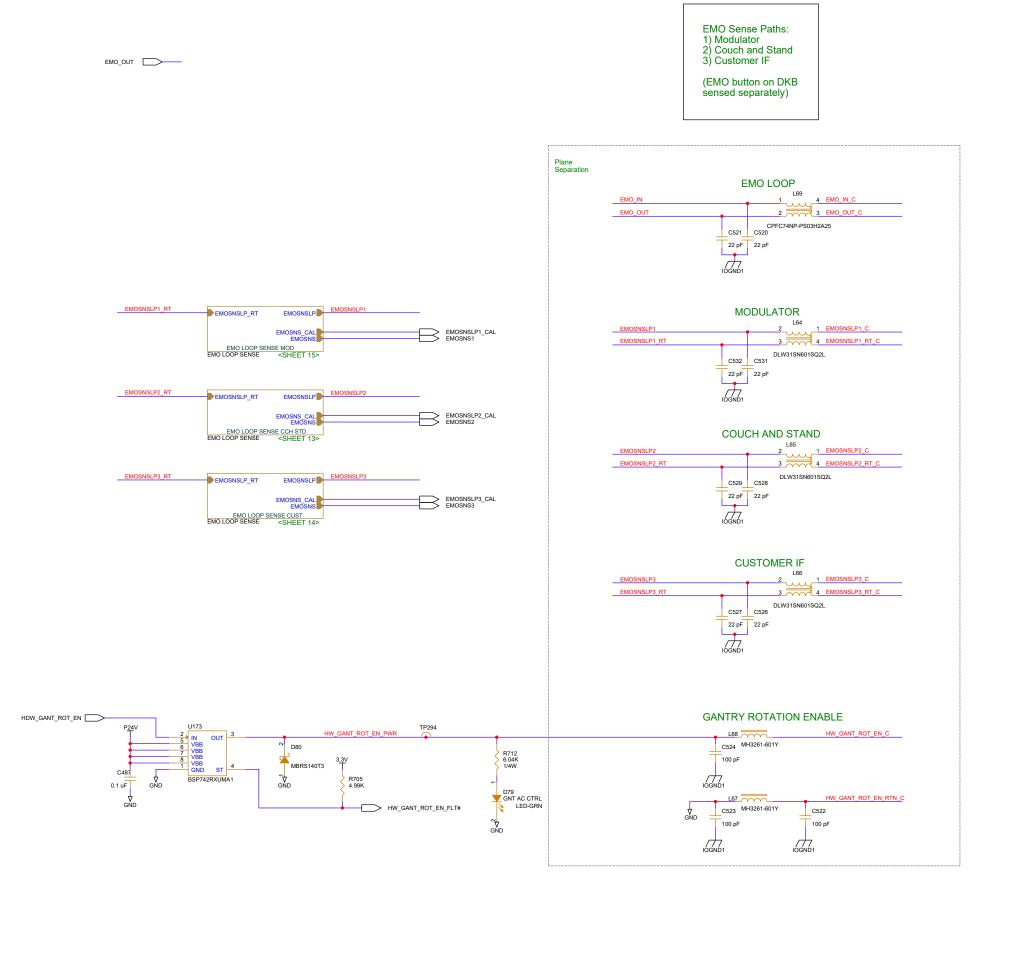


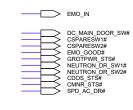






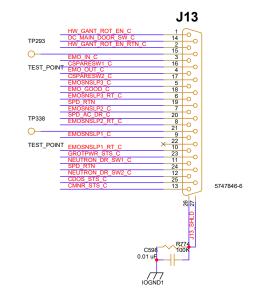




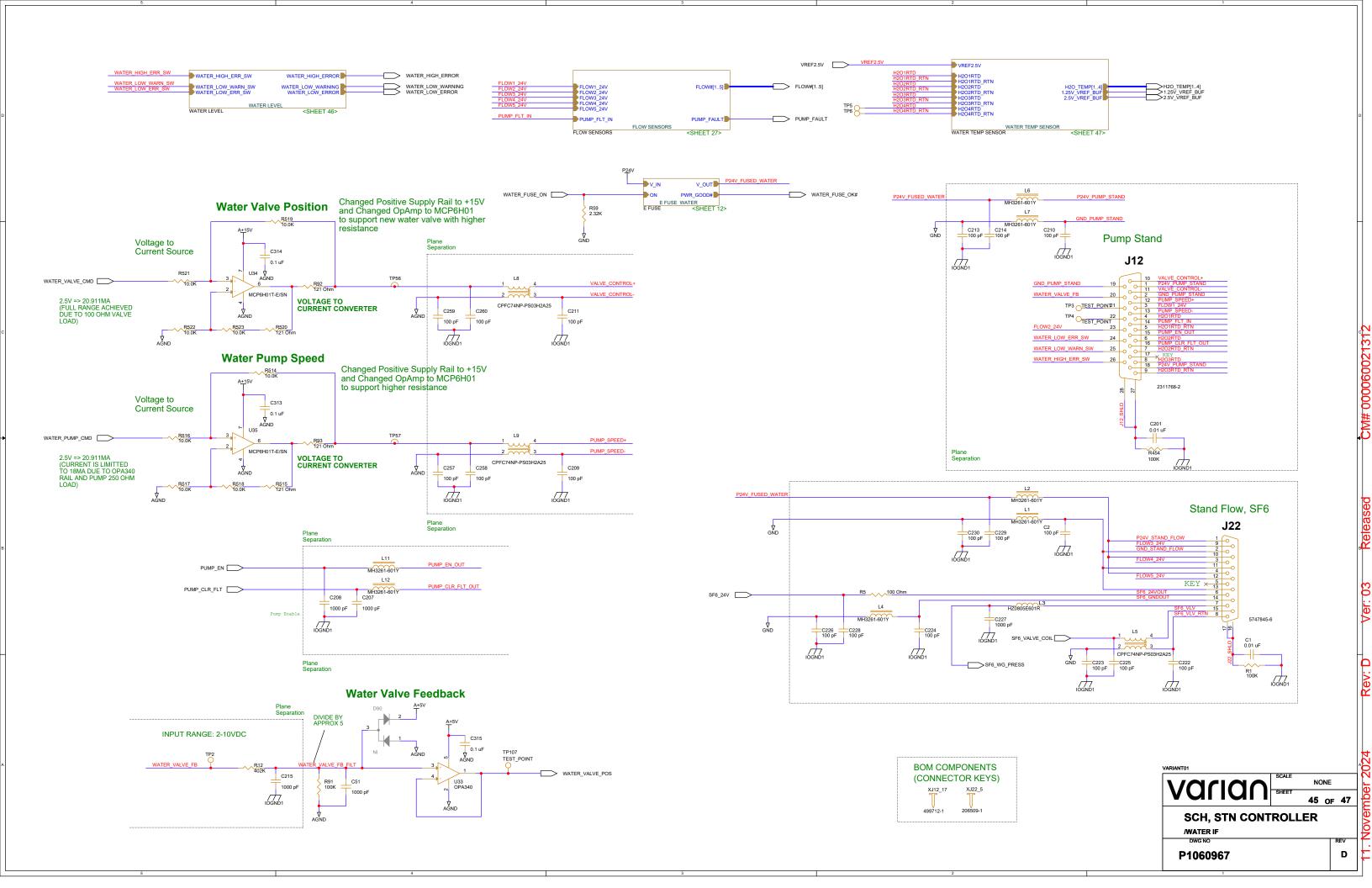


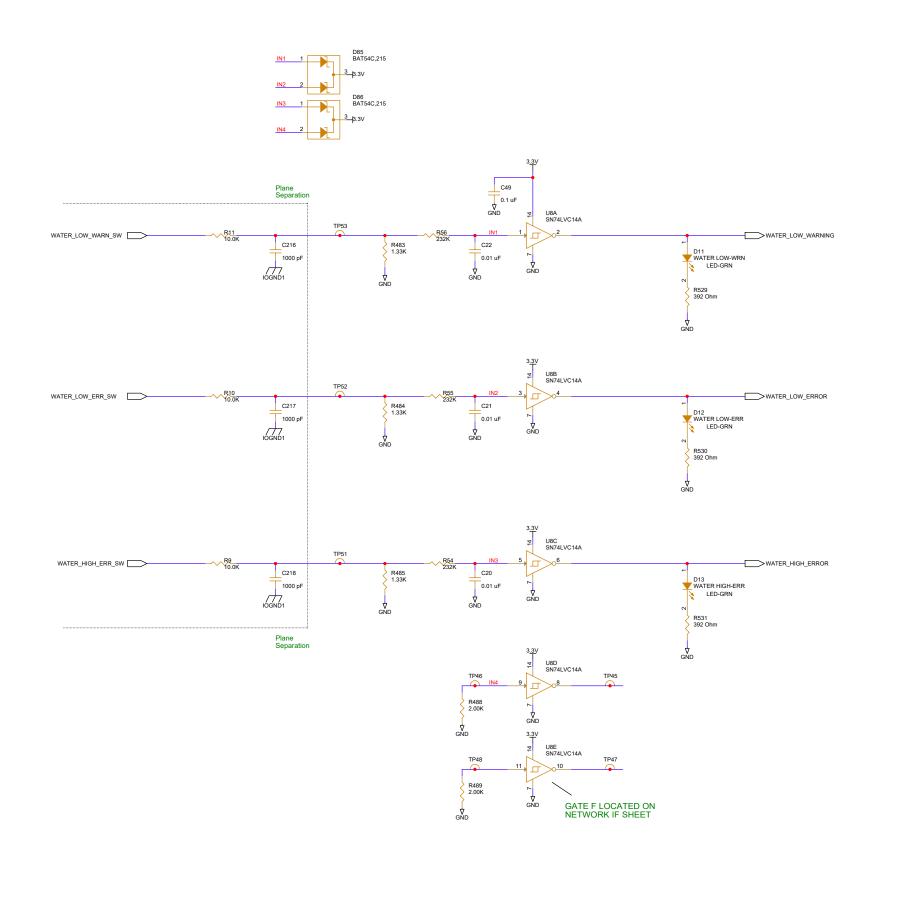


STAND POWER DISTRIBUTION









SCH, STN CONTROLLER

WATER IFWATER LEVEL

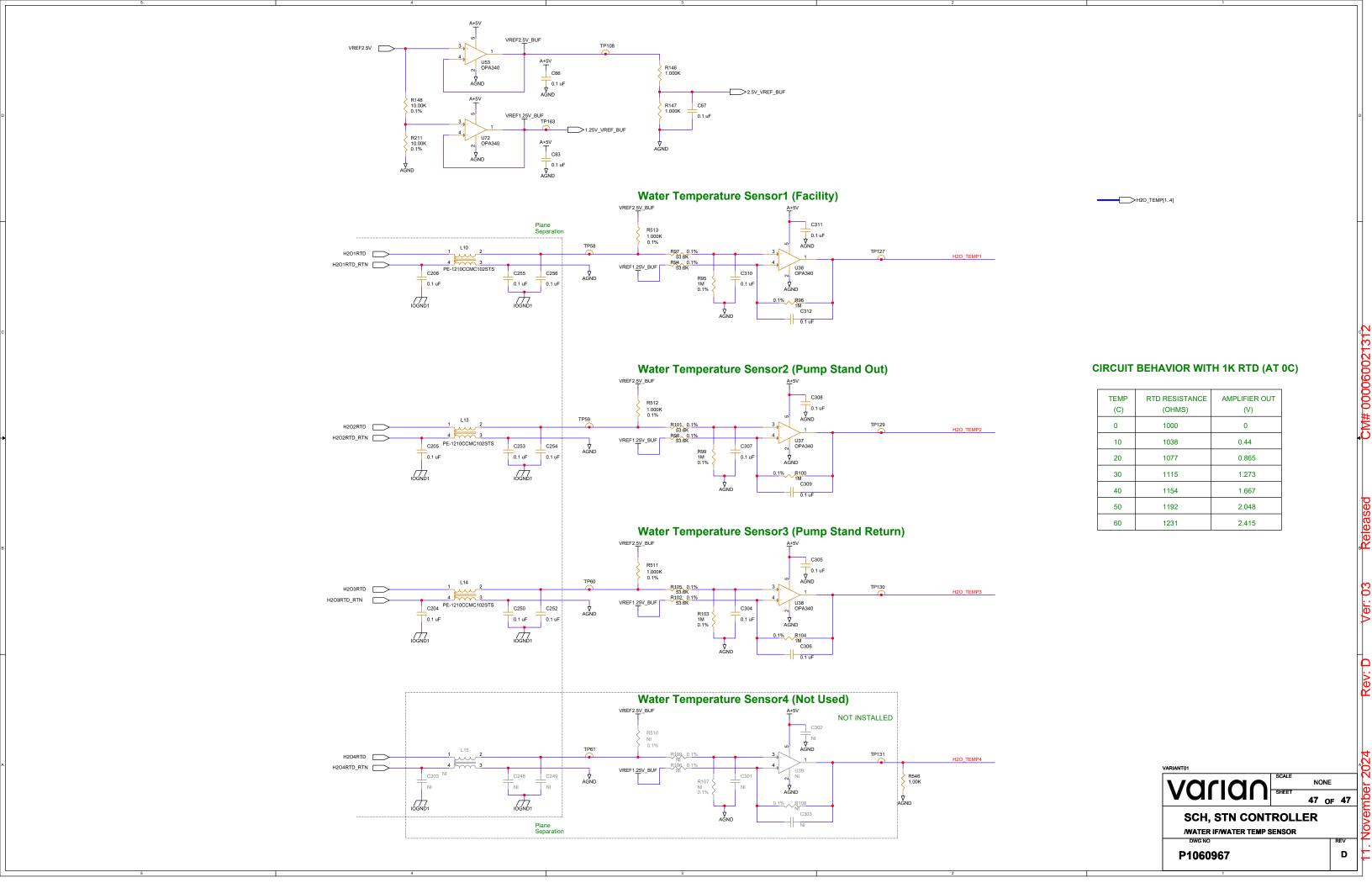
DWG NO
P1060967

SCALE NONE

SCALE NONE

SHEET

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Signature File



Document: P1060967/SCH/000/03
Description: SCH, STAND CONTROLLER

Change Master Number: 60021312 ECN Number: 200109931

ECN Description:

Signature list

Date	Time	User	Status
11, November 2024	18:43:58	Gary Yen	Verification Rel
06, November 2024	00:56:16	Ge Song	Approved
06, November 2024	00:28:31	Kevin Greenberg	In Eng Approval
06, November 2024	00:03:24	Gary Yen	In Checking
05, November 2024	18:44:22	Gary Yen	In Drafting
04, November 2024	19:28:01	Gary Yen	In Works

Signature File



Document: P1060967/SCH/000/03
Description: SCH, STAND CONTROLLER

Change Master Number: 60021312 ECN Number: 200109931

ECN Description:

Signature list

Date	Time	User	Status
11, November 2024	18:45:05	Gary Yen	Released
11, November 2024	18:43:58	Gary Yen	Verification Rel
06, November 2024	00:56:16	Ge Song	Approved
06, November 2024	00:28:31	Kevin Greenberg	In Eng Approval
06, November 2024	00:03:24	Gary Yen	In Checking
05, November 2024	18:44:22	Gary Yen	In Drafting
04, November 2024	19:28:01	Gary Yen	In Works