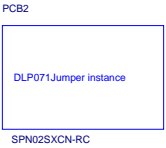
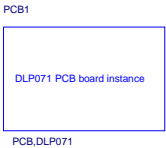
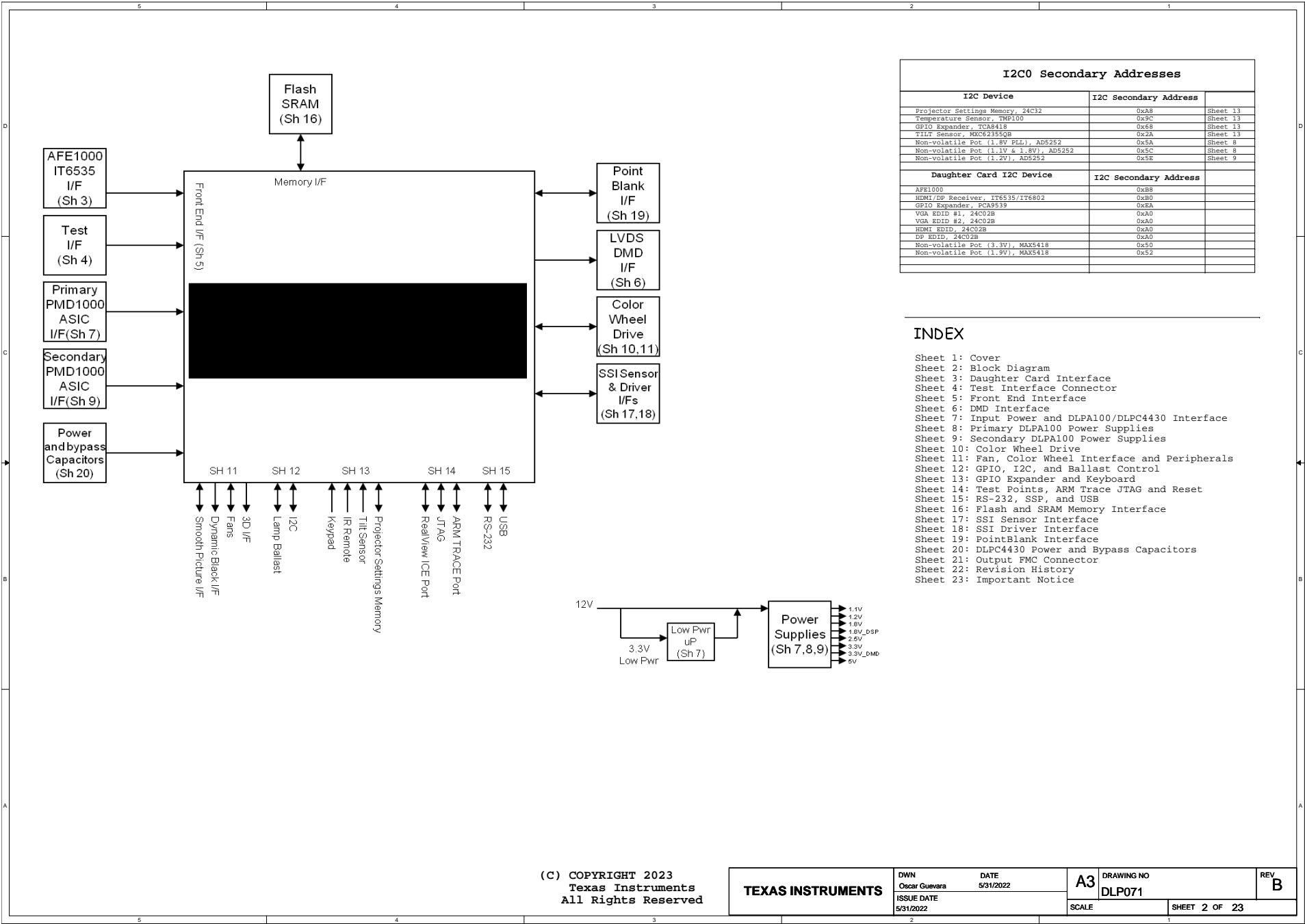


- NOTES, UNLESS OTHERWISE SPECIFIED:
- 1. The netname "P1P1V" represents connection to the +1.1V power plane.
 - 2. The netname "P1P2V" represents connection to the +1.2V power plane.
 - 3. The netname "P1P8V" represents connection to the +1.8V power plane.
 - 4. The netname "DSP_P1P8V" represents connection to the +1.8V power plane for use with the DSP.
 - 5. The netname "P2P5V" represents connection to the +2.5V power plane.
 - 6. The netname "P3P3V" represents connection to the +3.3V power plane.
 - 7. The netname "P3P3V_LP" represents connection to the +3.3V power plane for use with ultra-low power mode.
 - 8. The netname "P5V" represents connection to the +5.0V power plane.
 - 9. The netname "P12V" represents connection to the +12.0V power plane.
 - 10. The netname "GND" represents connection to the ground plane.
 - 11. A "Z" suffix on a signal name indicates an active low signal.
 - 12. All components with designators "U*", "Q*", and "D*" are electrostatic discharge sensitive.
 - 13. All components with designators above 500 are mounted solder side of the board.
 - 14. All resistor values are in ohms.
 - 15. All capacitor values in microfarads unless otherwise specified.



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		ENGR									
		SYST									
		PRJ									
		QA									
NEXT ASSY		USED ON				TITLE DLPC4430 Controller Board					
						A3	DRAWING NO		DLP071	REV	B
APPLICATION		SW					SCALE		SHEET 1 of 23		

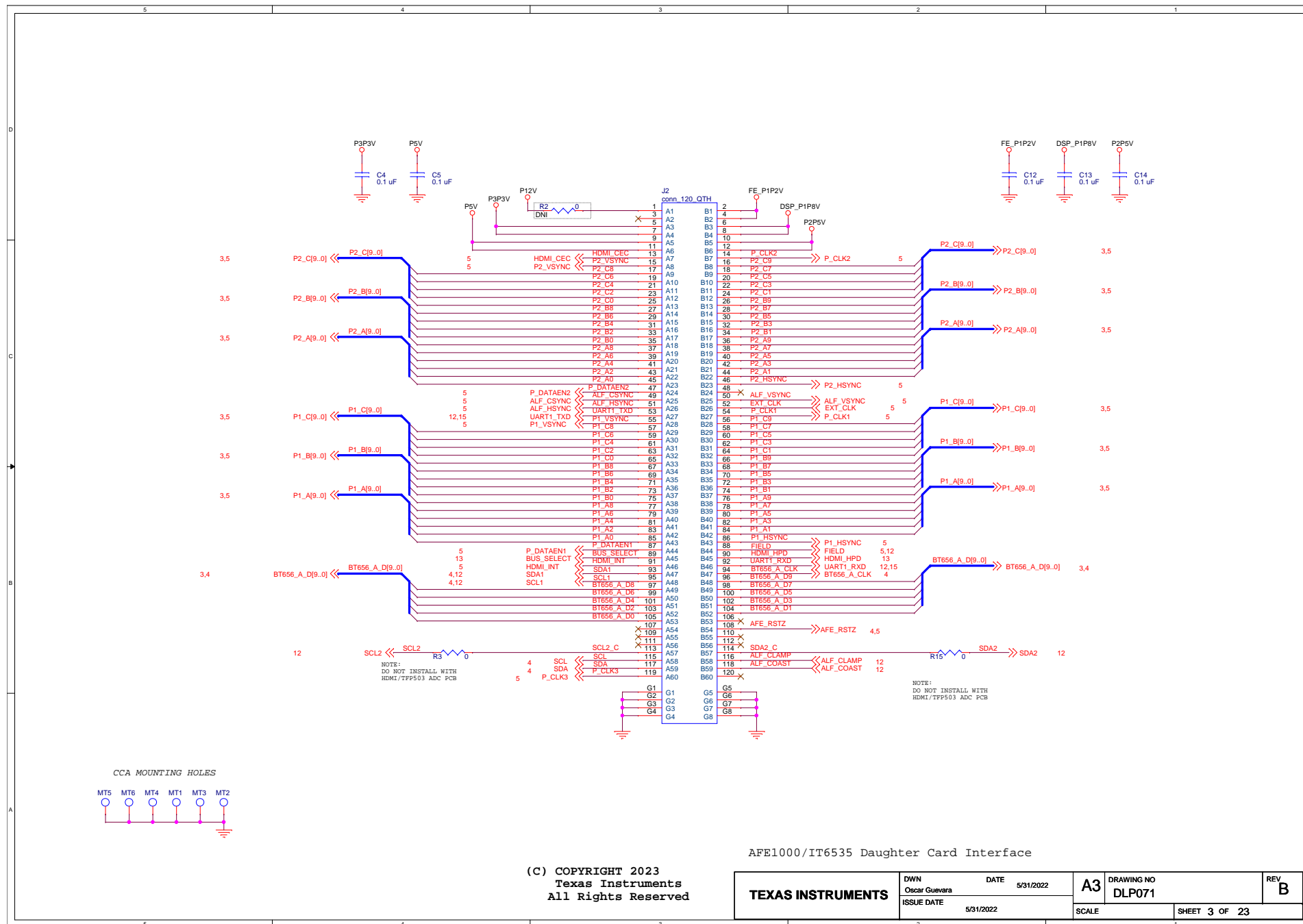


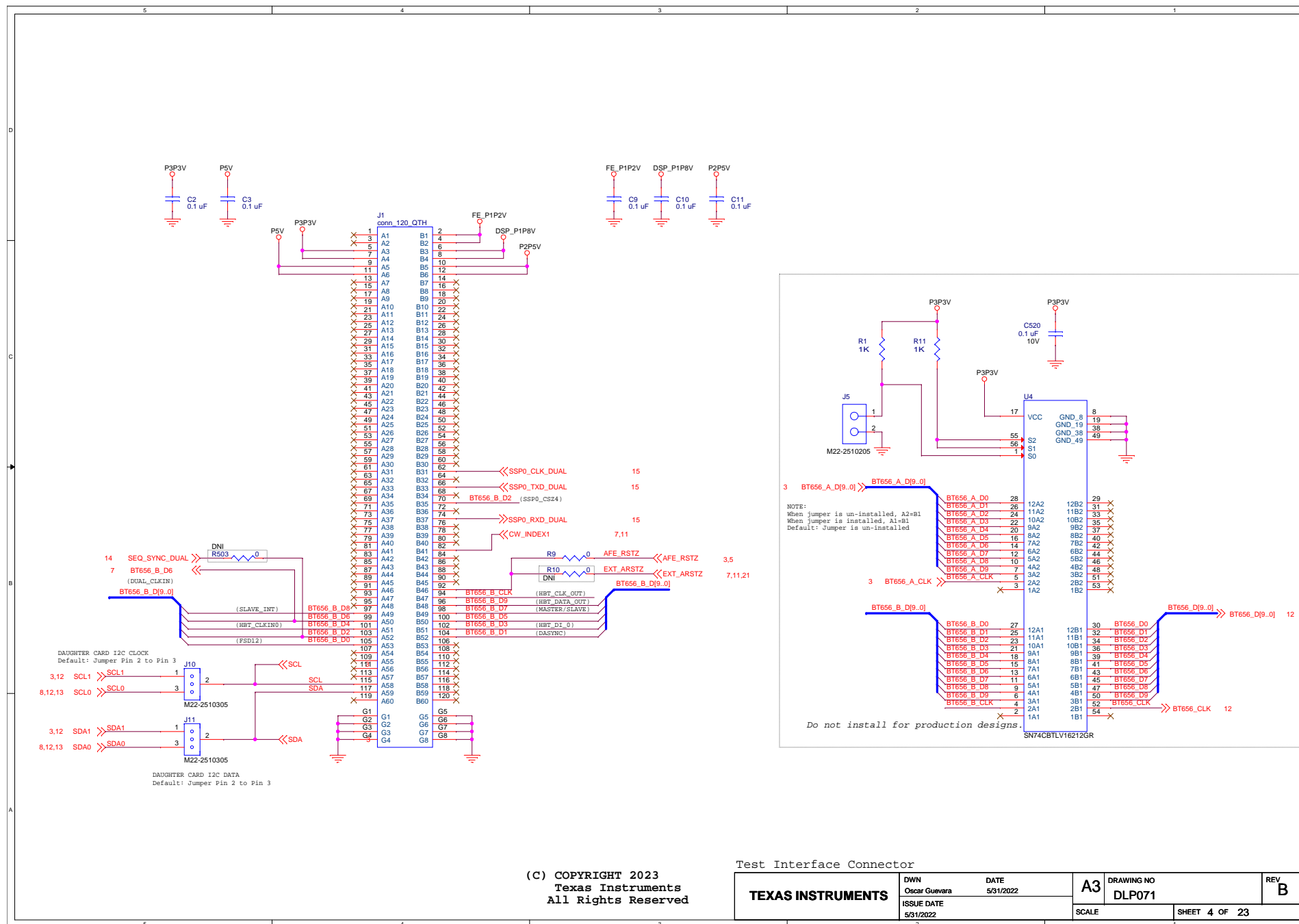
I2C0 Secondary Addresses		
I2C Device	I2C Secondary Address	
Projector Settings Memory, 24C32	0xA8	Sheet 13
Temperature Sensor, TMP100	0x9C	Sheet 13
GPIO Expander, PCA9418	0x68	Sheet 13
TILT Sensor, MXC62355QB	0x2A	Sheet 13
Non-volatile Pot (1.8V PL4), AD5252	0x5A	Sheet 8
Non-volatile Pot (1.1V & 1.8V), AD5252	0x5C	Sheet 8
Non-volatile Pot (1.2V), AD5252	0x5E	Sheet 9
Daughter Card I2C Device	I2C Secondary Address	
AFE1000	0xB8	
HDMI/DP Receiver, IT6535/IT6802	0xB0	
GPIO Expander, PCA9539	0xEA	
VGA EDID #1, 24C02B	0xA0	
VGA EDID #2, 24C02B	0xA0	
HDMI EDID, 24C02B	0xA0	
DP EDID, 24C02B	0xA0	
Non-volatile Pot (3.3V), MAX5418	0x50	
Non-volatile Pot (1.9V), MAX5418	0x52	

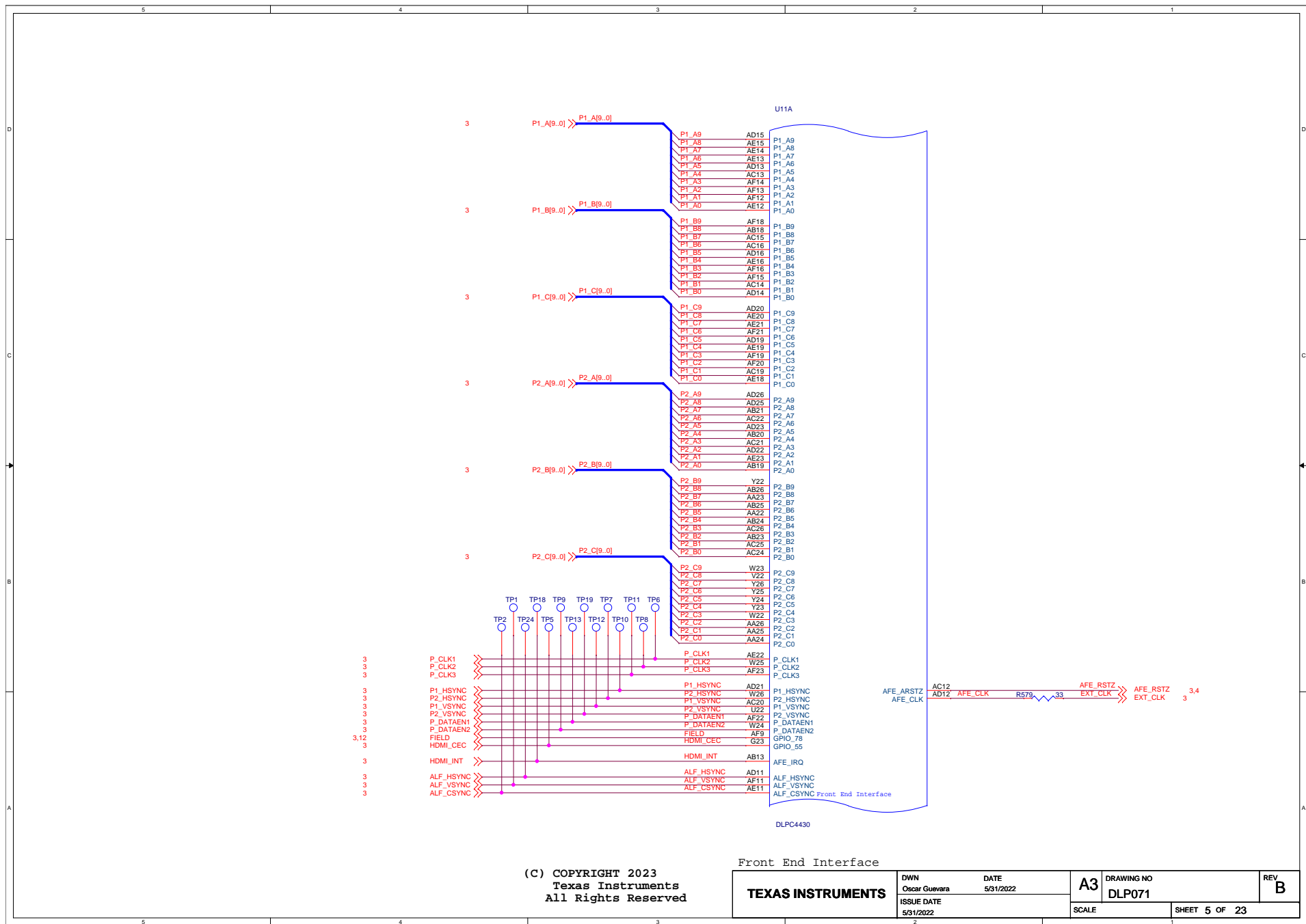
INDEX

- Sheet 1: Cover
- Sheet 2: Block Diagram
- Sheet 3: Daughter Card Interface
- Sheet 4: Test Interface Connector
- Sheet 5: Front End Interface
- Sheet 6: DMD Interface
- Sheet 7: Input Power and DLP071/DLP071 Interface
- Sheet 8: Primary DLP071 Power Supplies
- Sheet 9: Secondary DLP071 Power Supplies
- Sheet 10: Color Wheel Drive
- Sheet 11: Fan, Color Wheel Interface and Peripherals
- Sheet 12: GPIO, I2C, and Ballast Control
- Sheet 13: GPIO Expander and Keyboard
- Sheet 14: Test Points, ARM Trace JTAG and Reset
- Sheet 15: RS-232, SSP, and USB
- Sheet 16: Flash and SRAM Memory Interface
- Sheet 17: SSI Sensor Interface
- Sheet 18: SSI Driver Interface
- Sheet 19: PointBlank Interface
- Sheet 20: DLP071 Power and Bypass Capacitors
- Sheet 21: Output FMC Connector
- Sheet 22: Revision History
- Sheet 23: Important Notice

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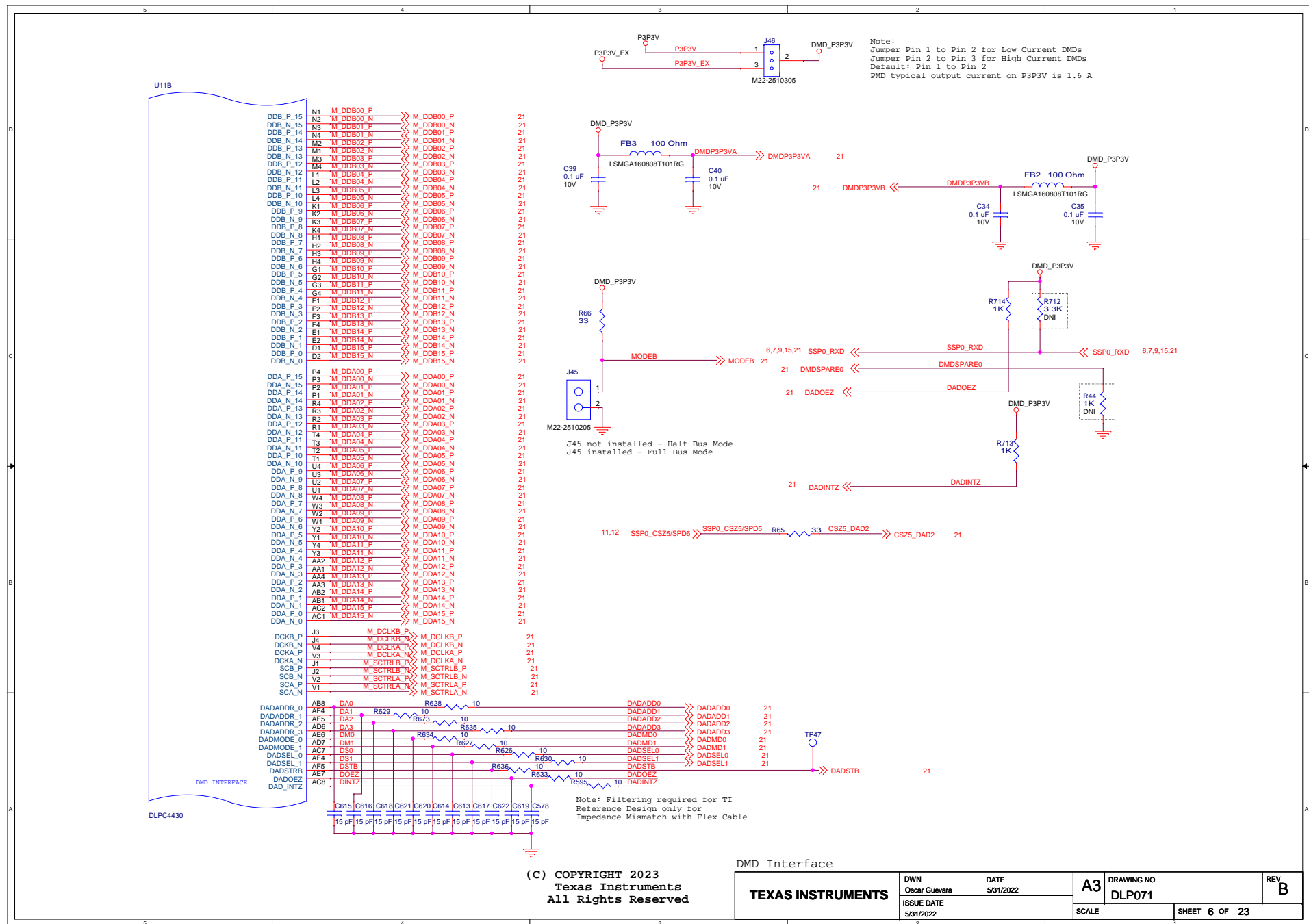


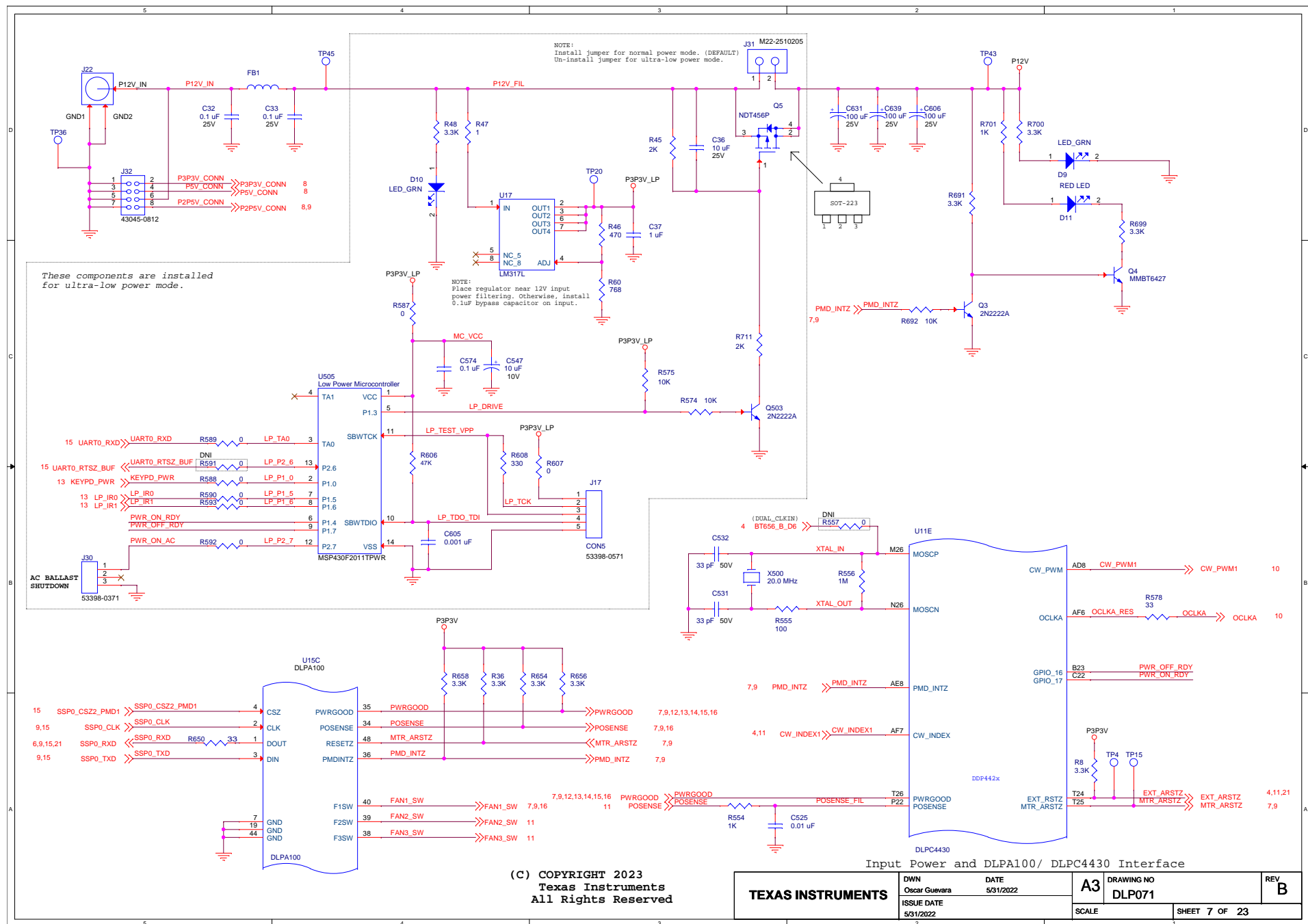
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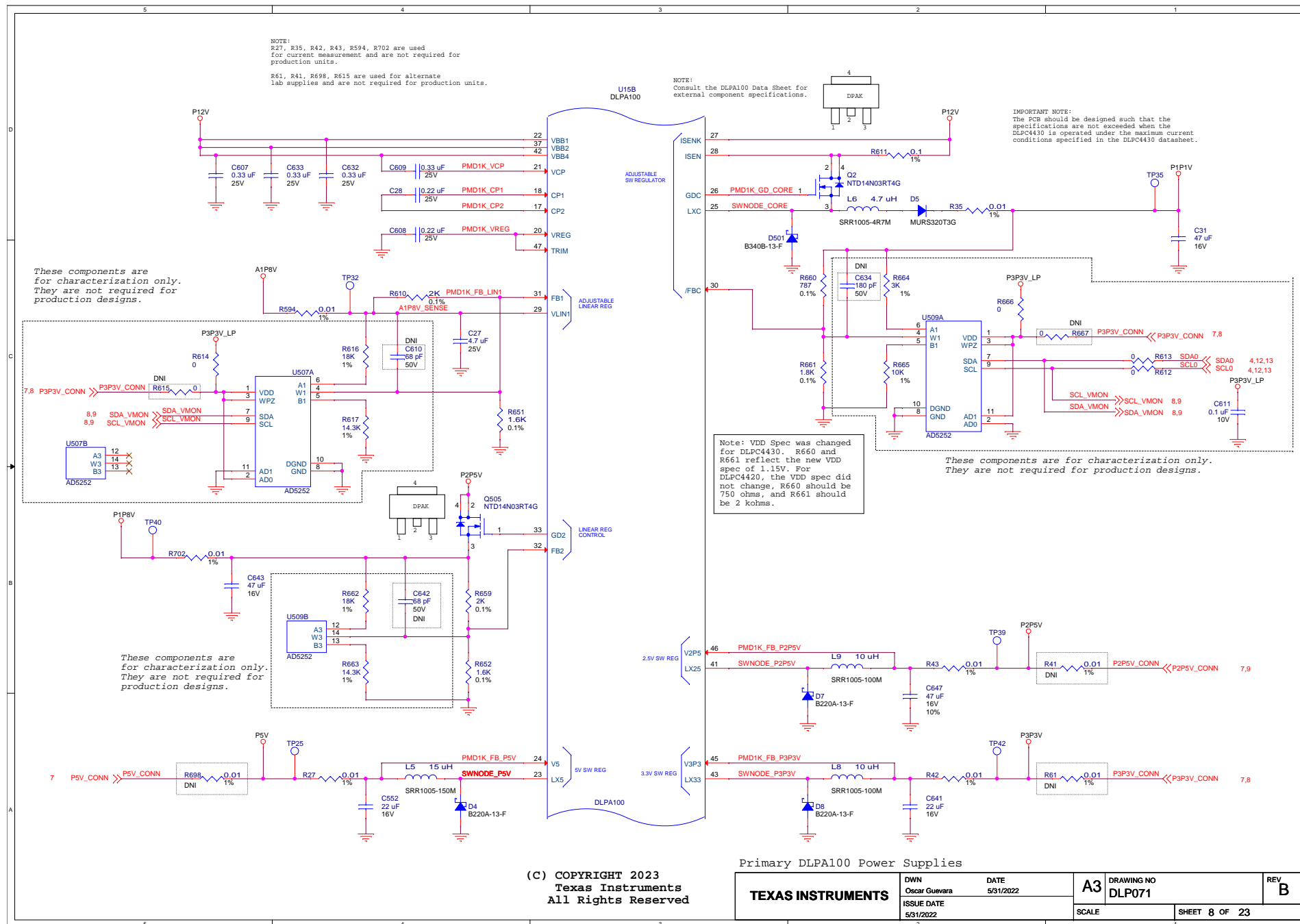
Front End Interface

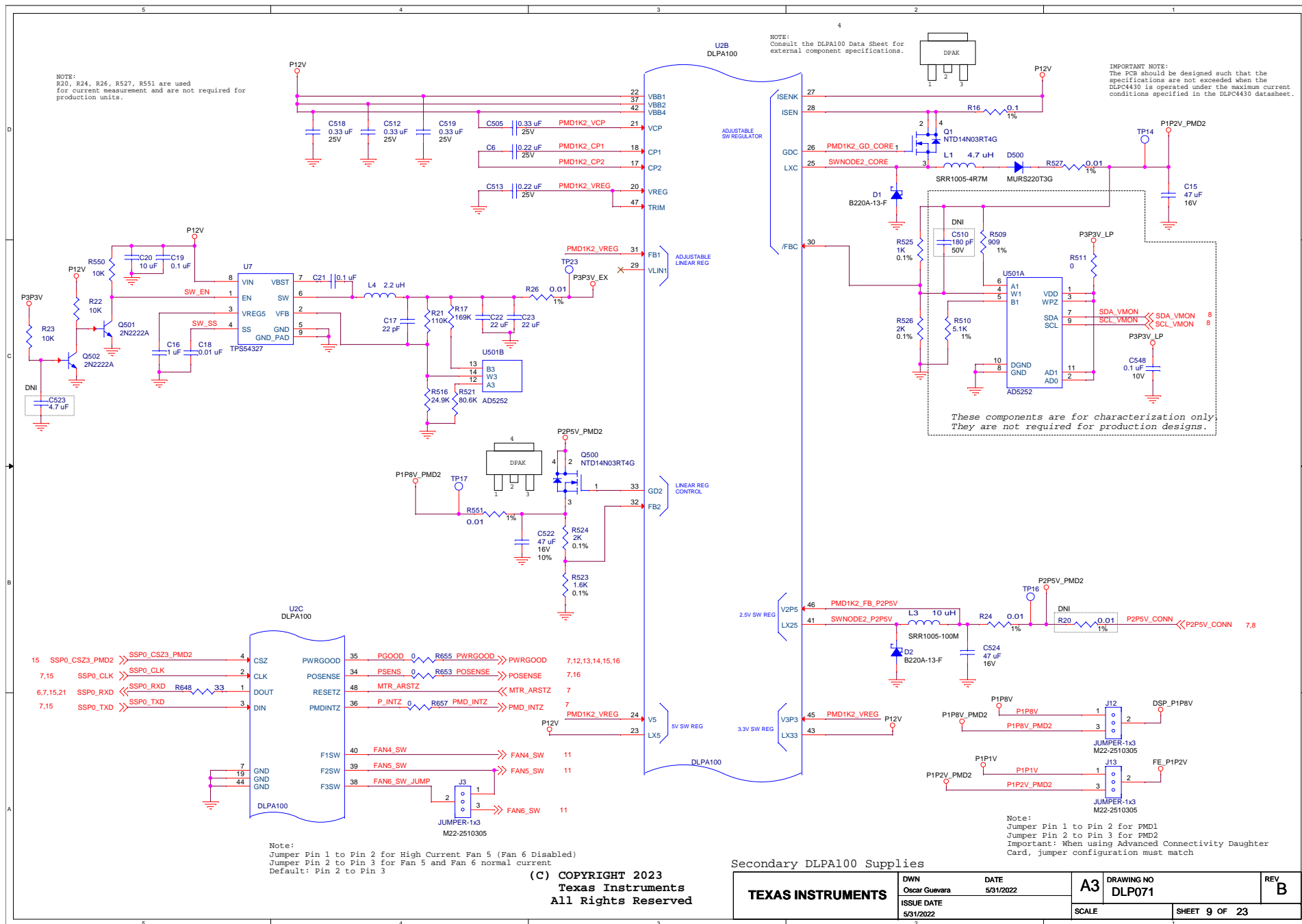
TEXAS INSTRUMENTS

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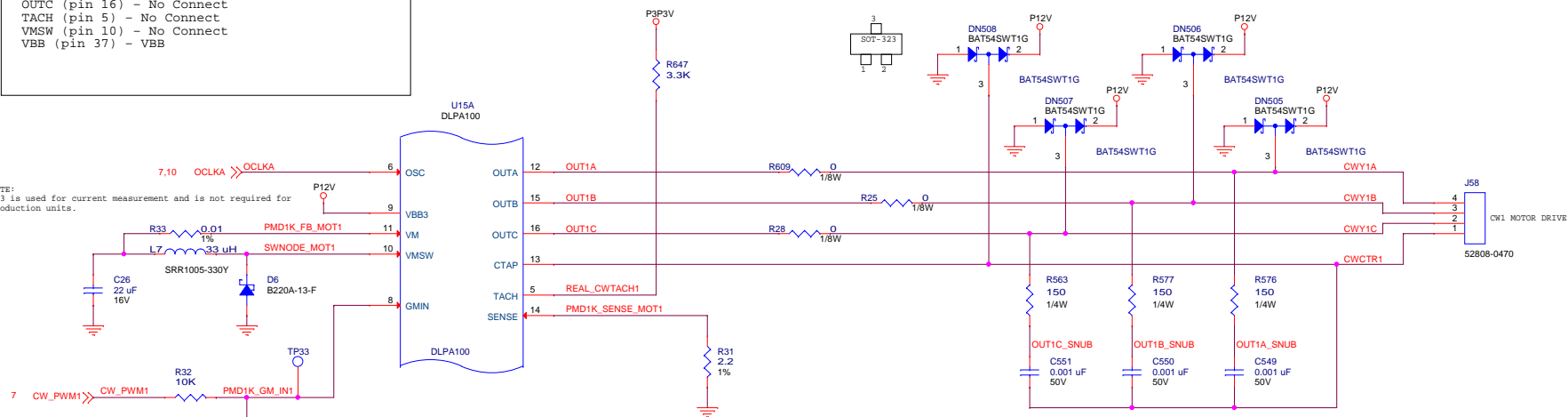




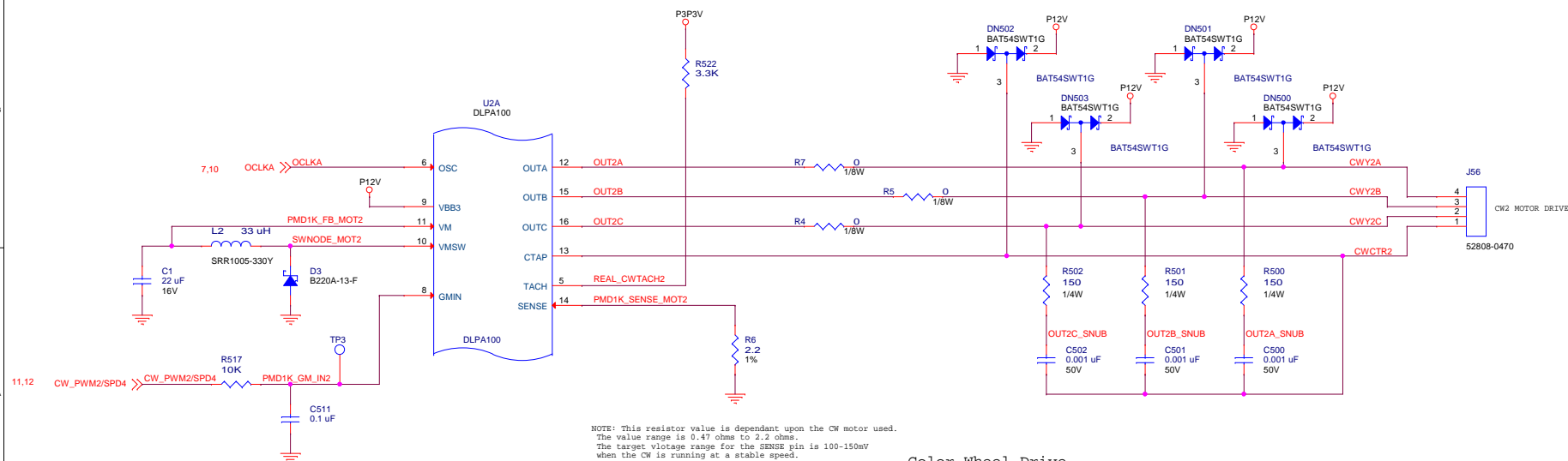
Note: If not using the motor driver on the
 DPLA100 follow these guidelines for unused pins:

- GMIN (pin 8) - Ground
- OSC (pin 6) - Ground
- SENSE (pin 14) - Ground
- CTAP (pin 13) - VBB
- VM (pin 11) - VBB
- OUTA (pin 12) - No Connect
- OUTB (pin 15) - No Connect
- OUTC (pin 16) - No Connect
- TACH (pin 5) - No Connect
- VMSW (pin 10) - No Connect
- VBB (pin 37) - VBB

NOTE:
R33 is used for current measurement and is not required for
production units.



NOTE: This resistor value is dependant upon the CW motor used.
The value range is 0.47 ohms to 2.2 ohms.
The target vltotage range for the SENSE pin is 100-150mV
when the CW is running at a stable speed.

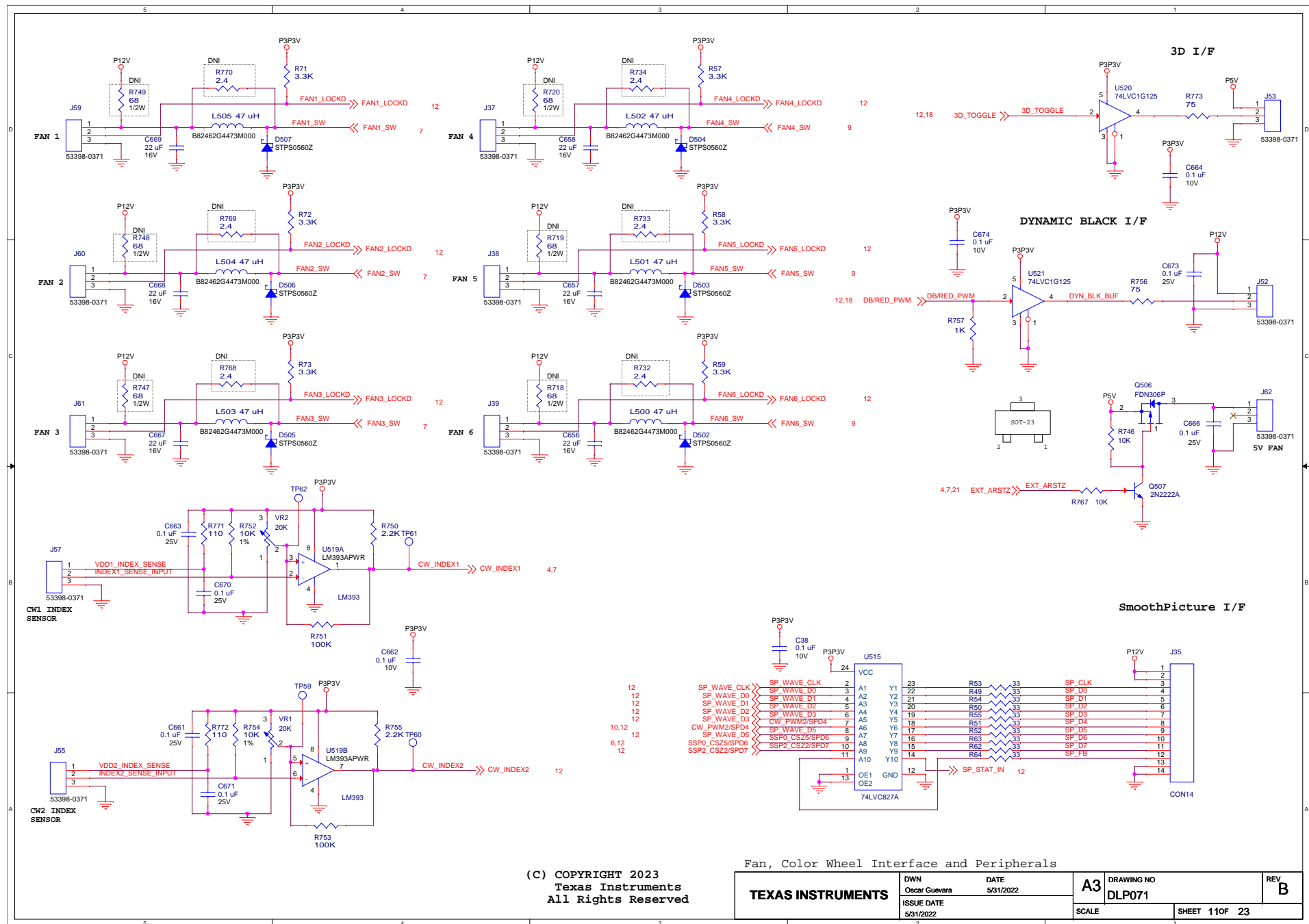


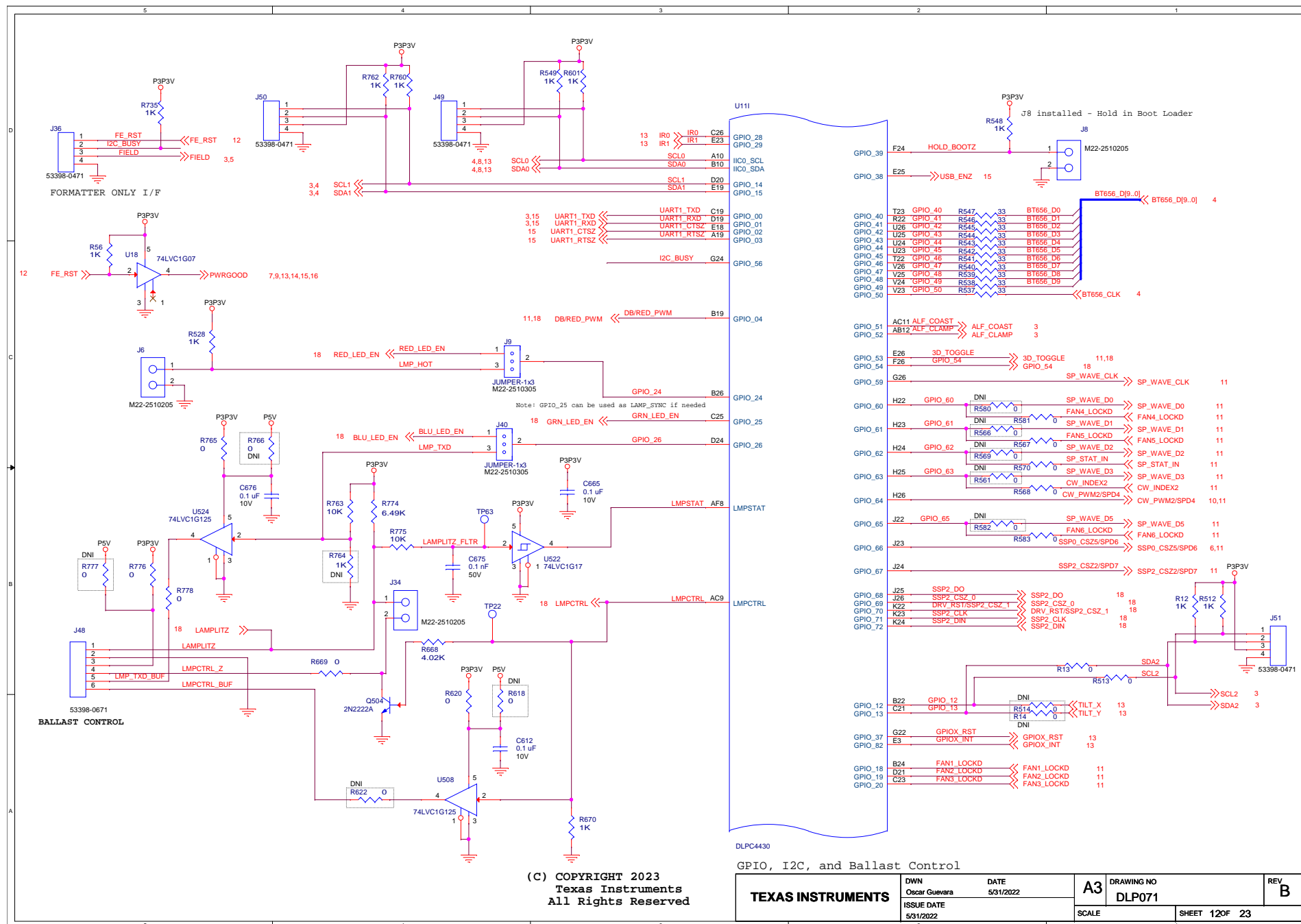
NOTE: This resistor value is dependant upon the CW motor used. The value range is 0.47 ohms to 2.2 ohms. The target vltage range for the SENSE pin is 100-150mV when the CW is running at a stable speed.

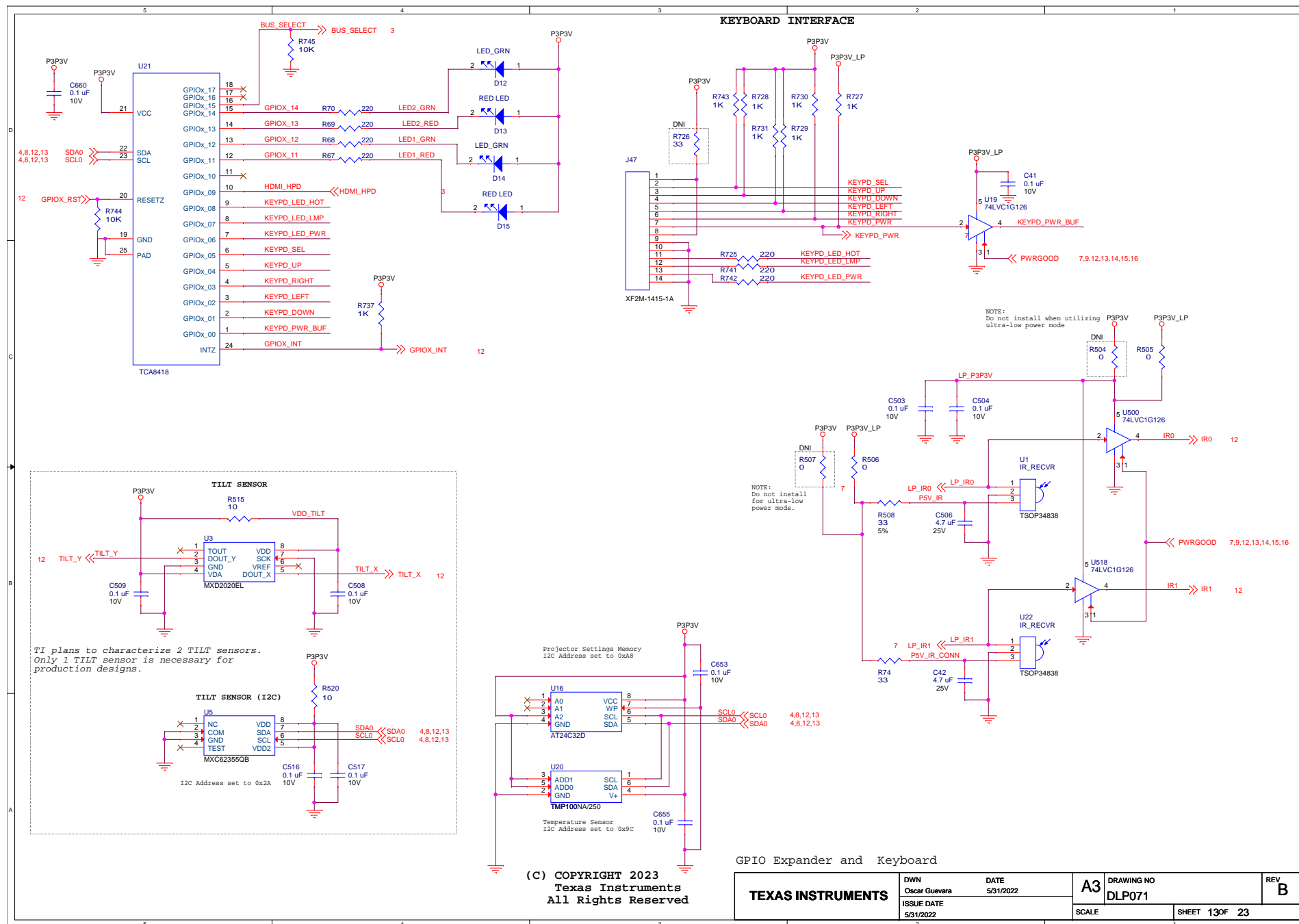
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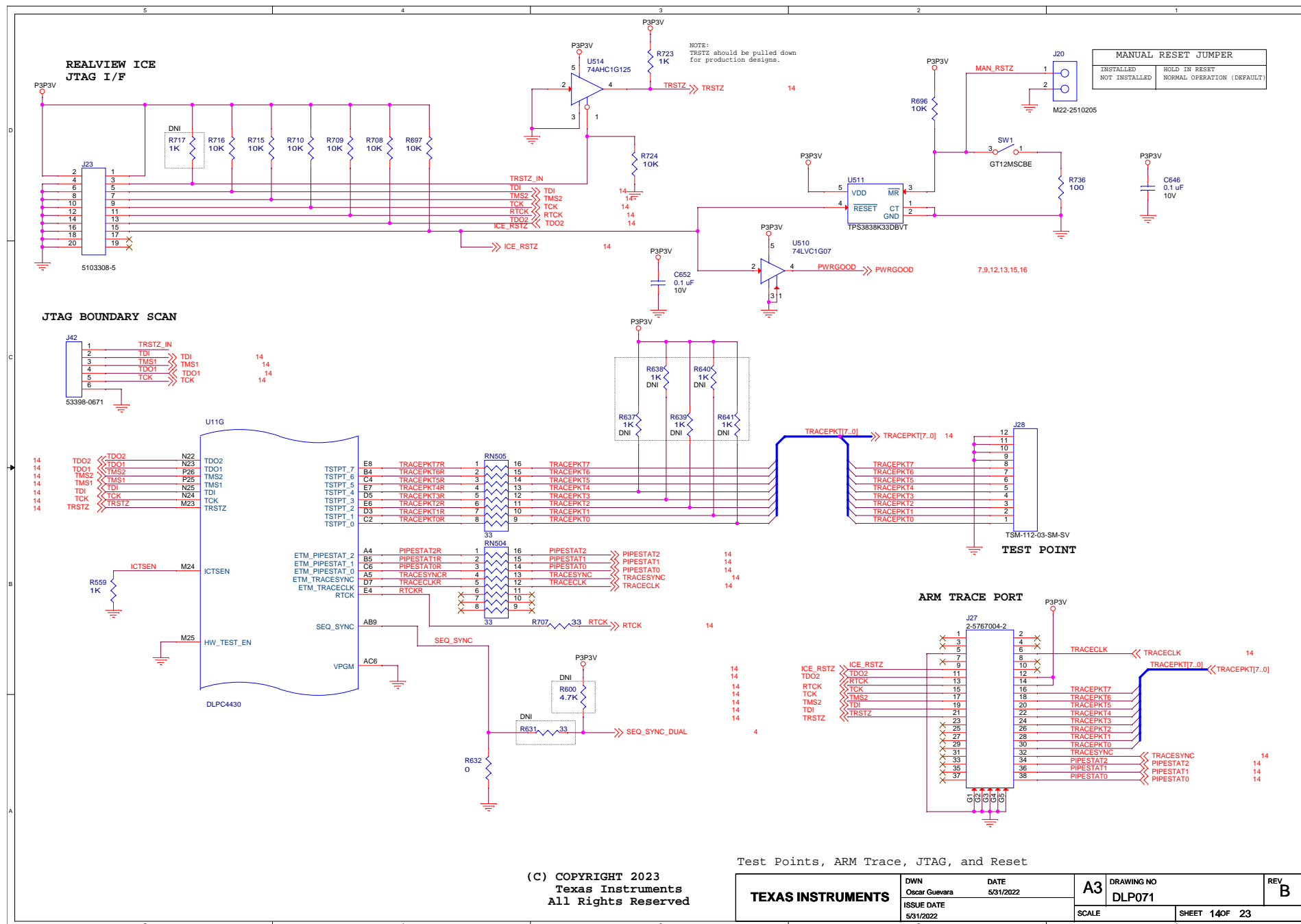
Color Wheel Drive

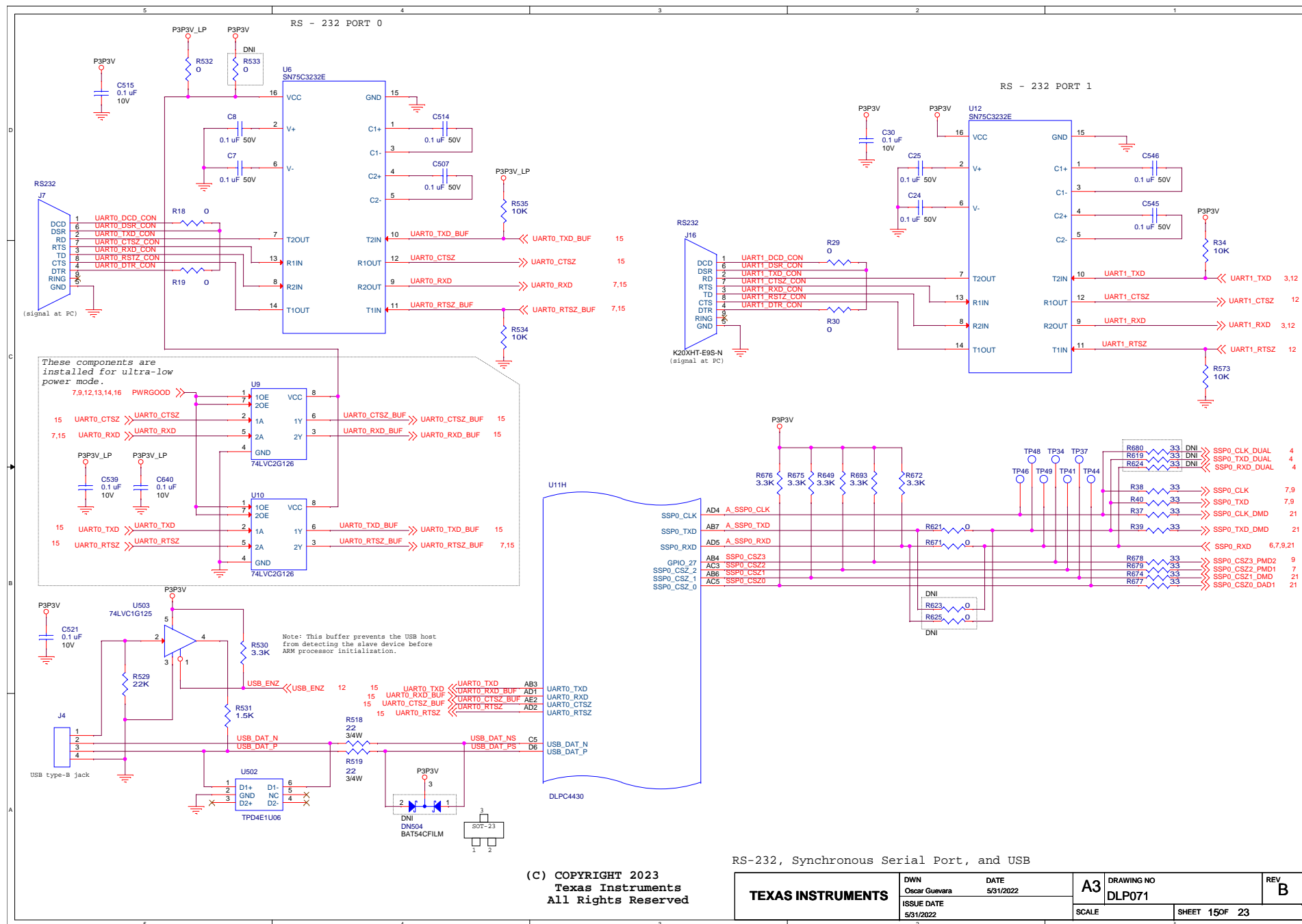
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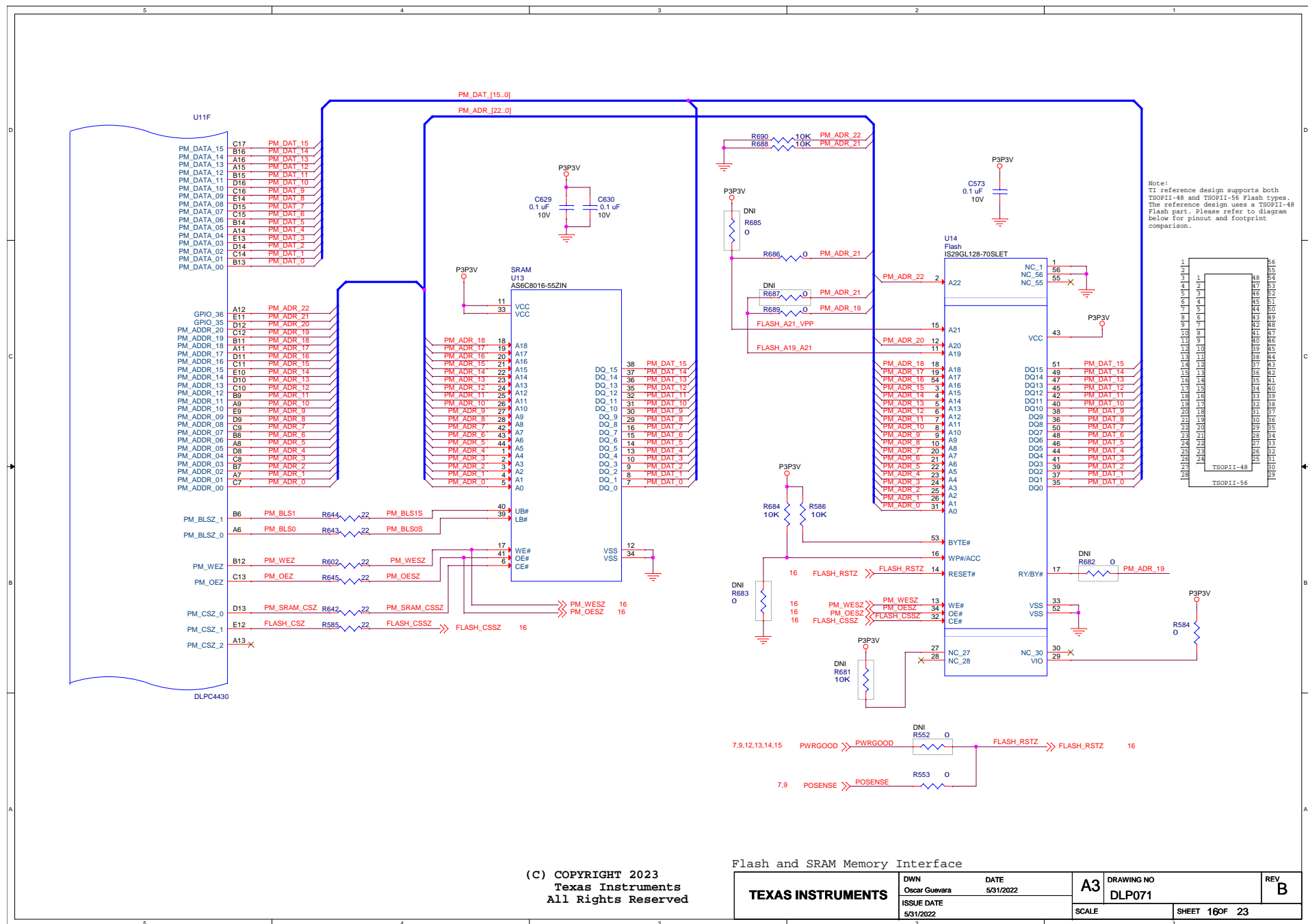




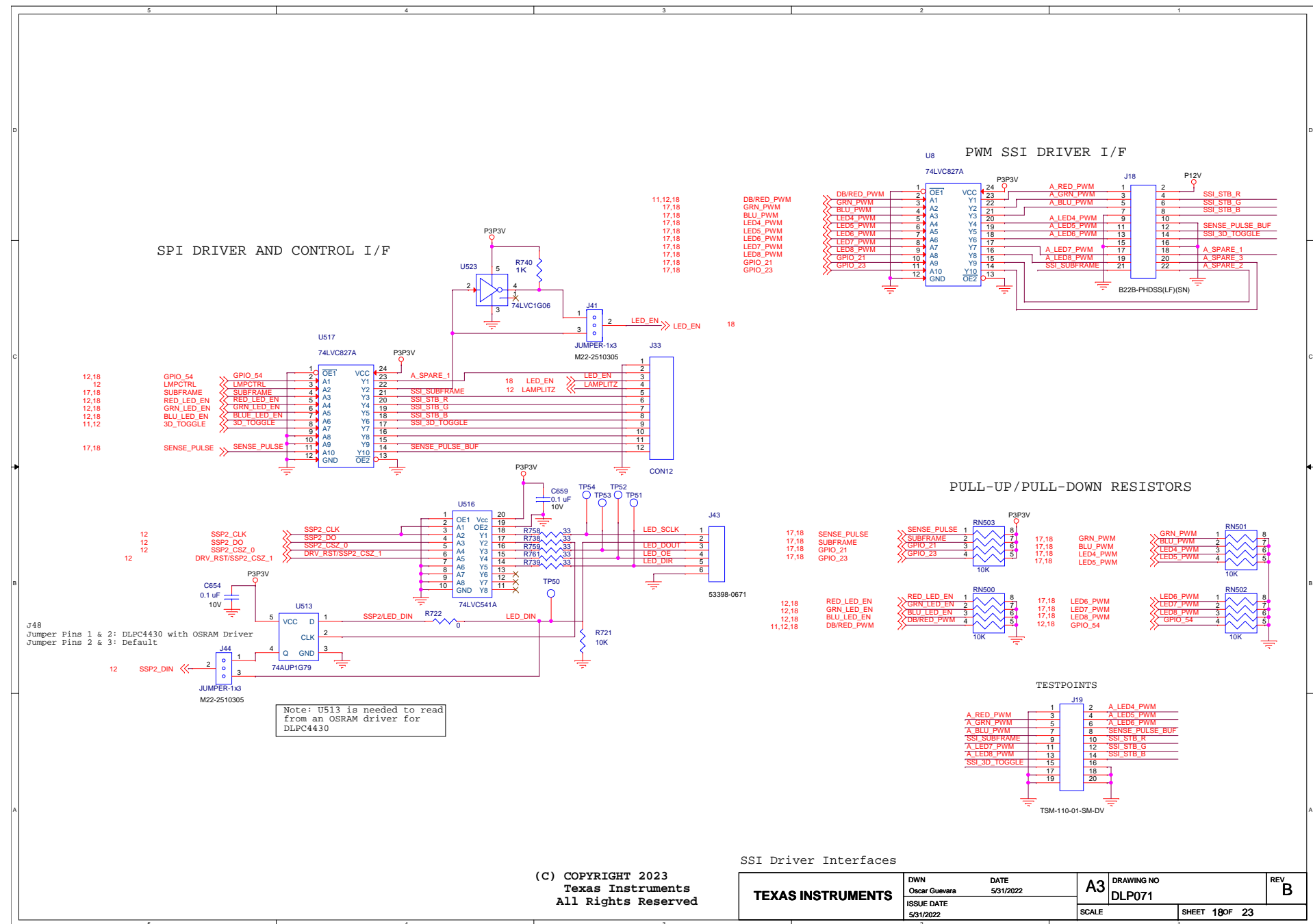




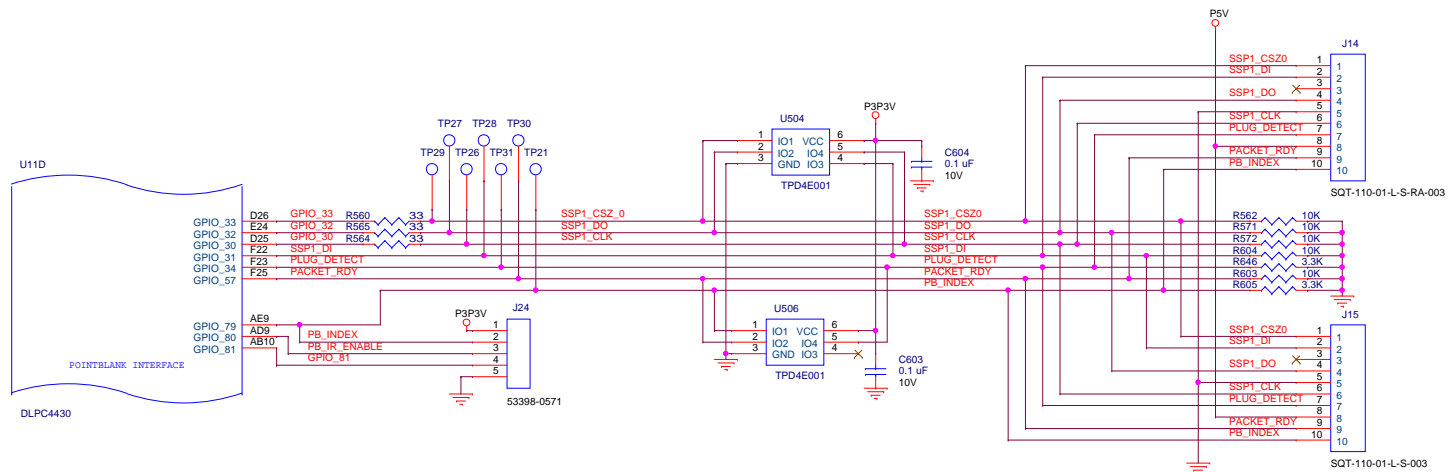




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Note: Only one connector is needed for production designs (J14 or J15)

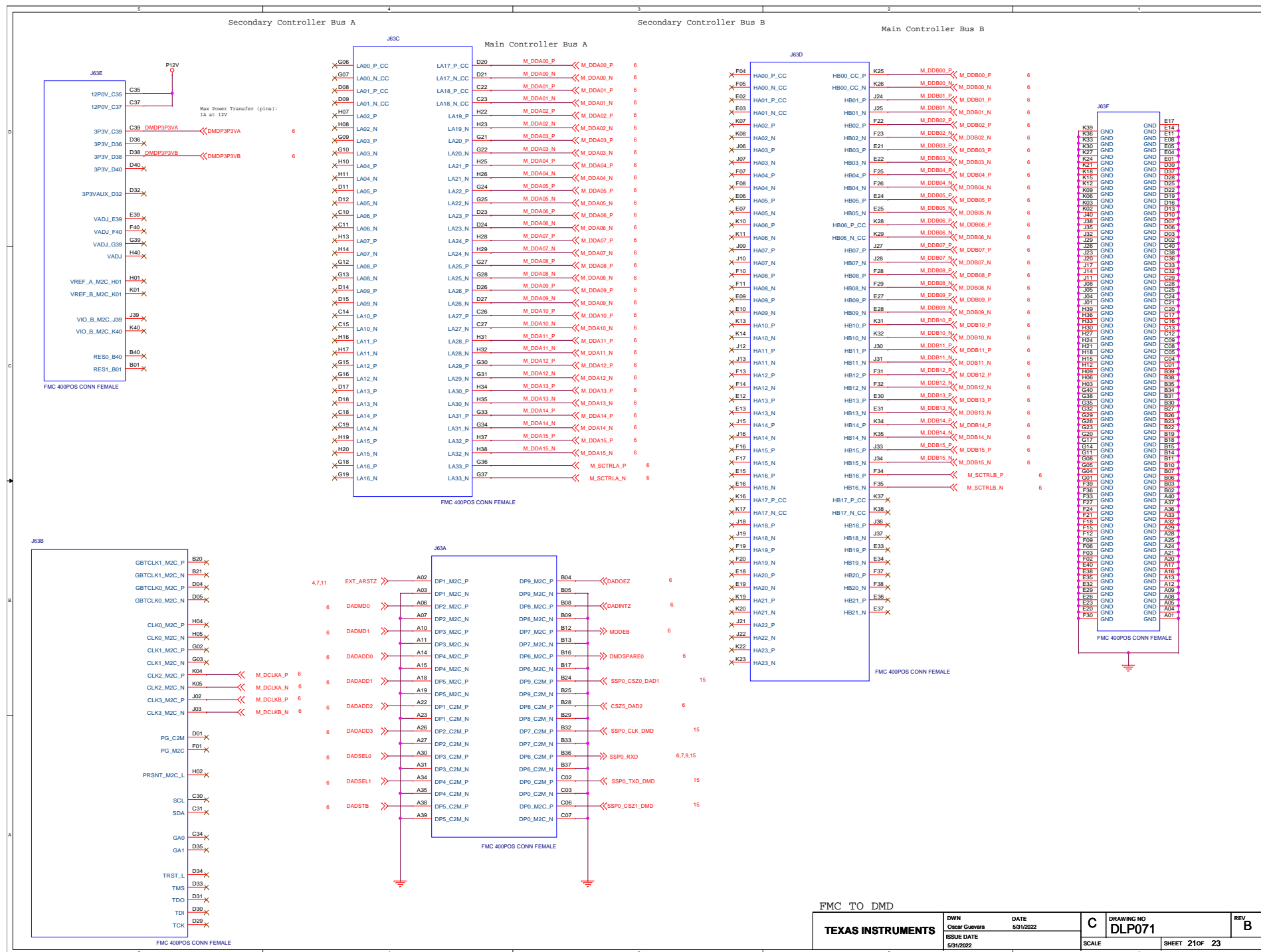


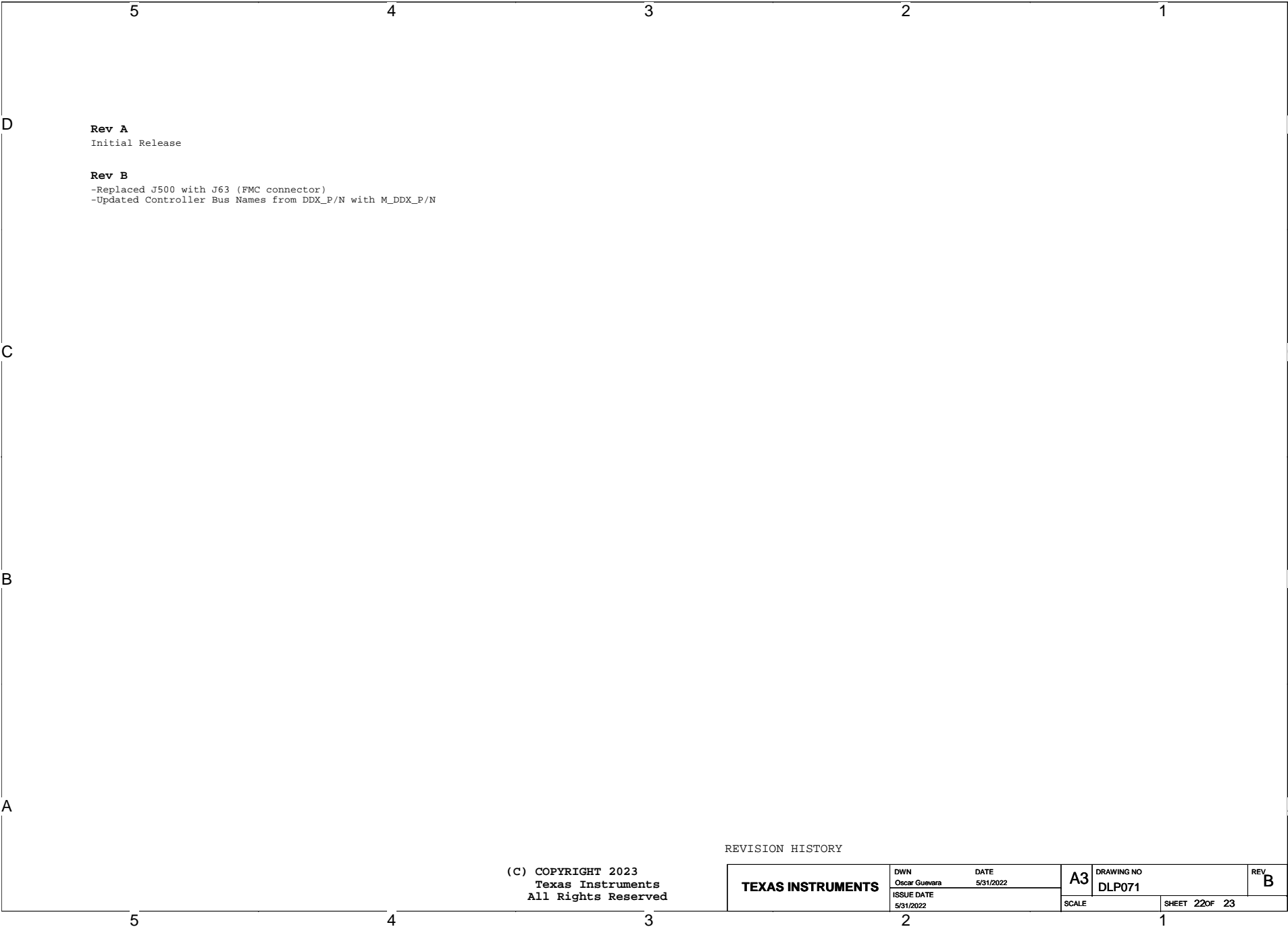
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PointBlank Interface

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Rev A
Initial Release

Rev B
-Replaced J500 with J63 (FMC connector)
-Updated Controller Bus Names from DDX_P/N with M_DDX_P/N

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REVISION HISTORY

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