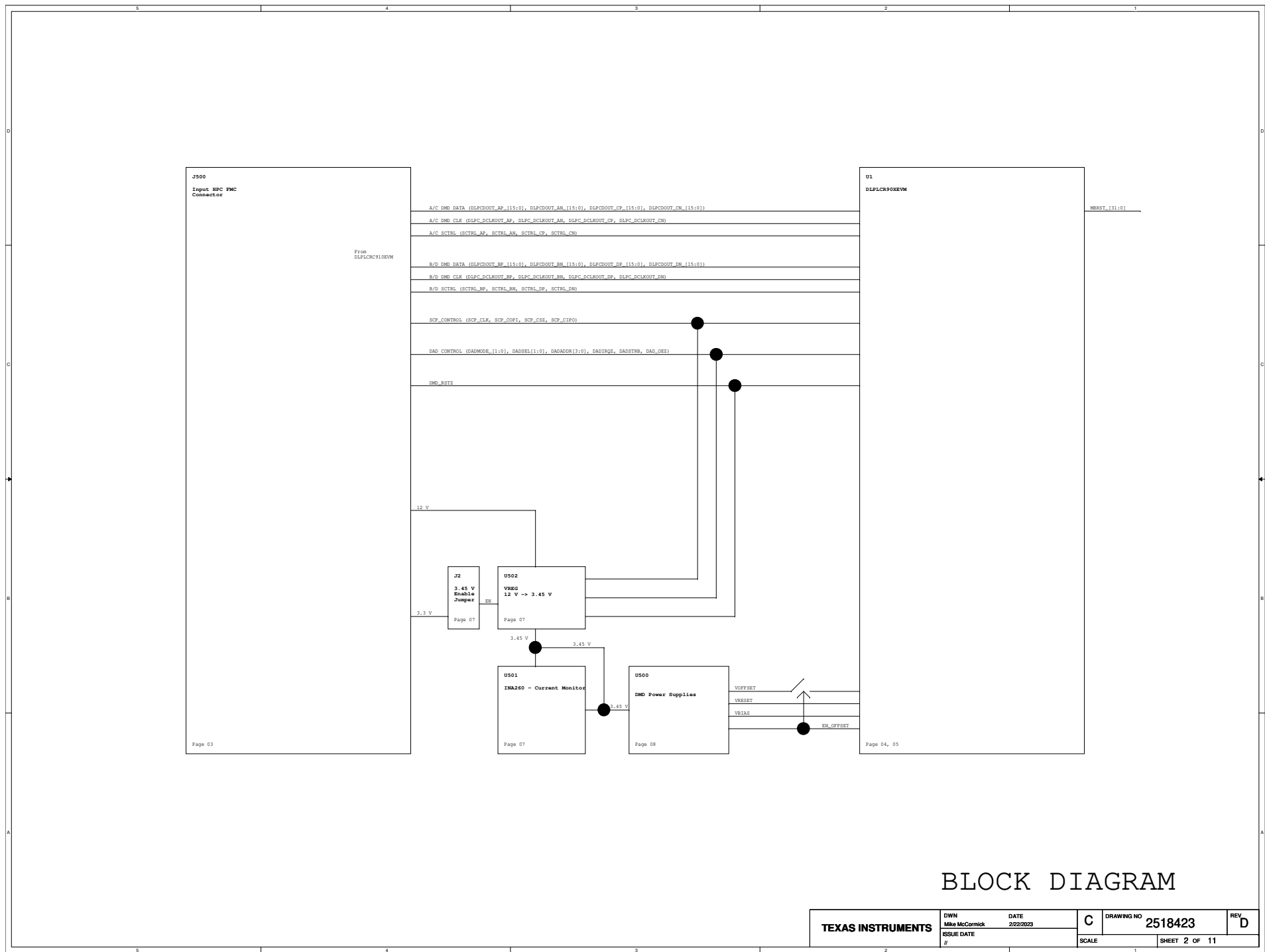


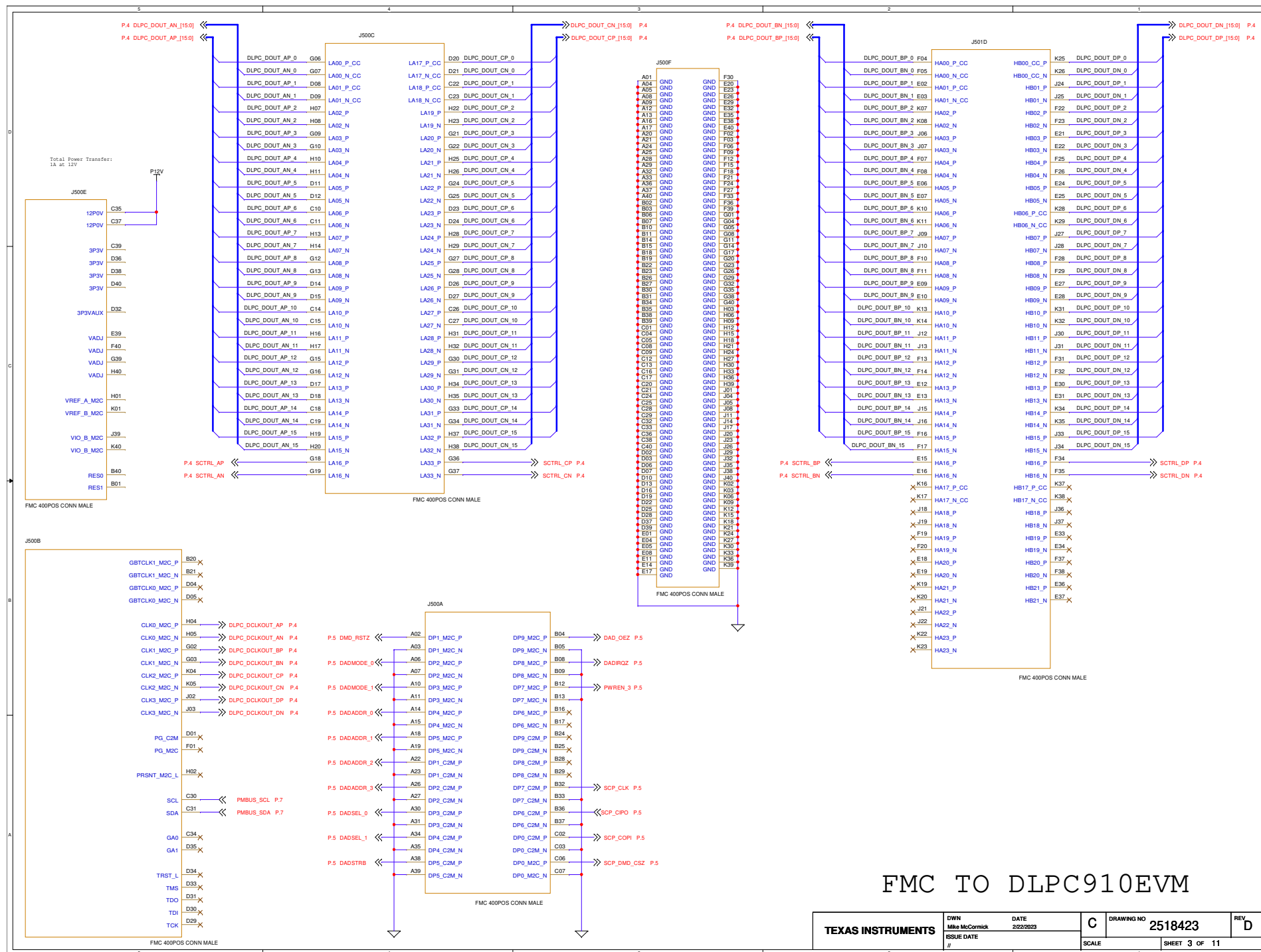
COMPUTER GENERATED DRAWING - DO NOT REVISE MANUALLY

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	Initial Release		
B	Pre-EVM Release Update	3/3/2021	
C	Pre-EVM Release Update	2/17/2023	
D	Pre-EVM Release Update	2/22/2023	

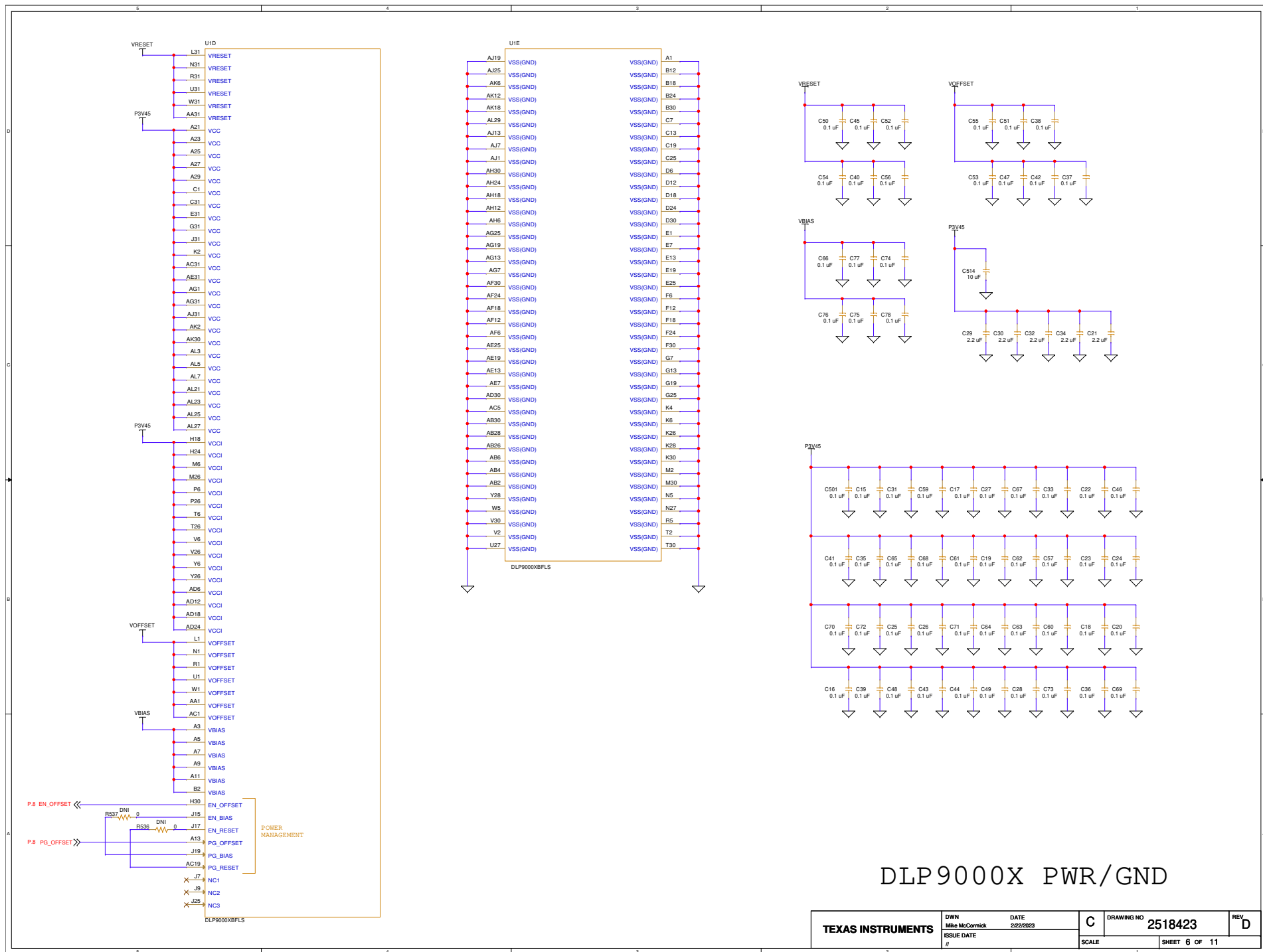


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		ENGR Tim Ryan	9/9/2022		
		SYST Mike McCormick	9/9/2022		
PWB: 2518424		PRJ John O'Connor	7/27/2020	TITLE ESD, DLP083D - DLPLCR90XEVM Schematic	
CCA: 2518425		QA Mark Dorak	7/27/2020		
NEXT ASSY	USED ON			C DRAWING NO 2518423	REV D
APPLICATION		SW Cadence Capture V.17.2	SCALE	SHEET 1 of 11	





FMC TO DLPC910EVM

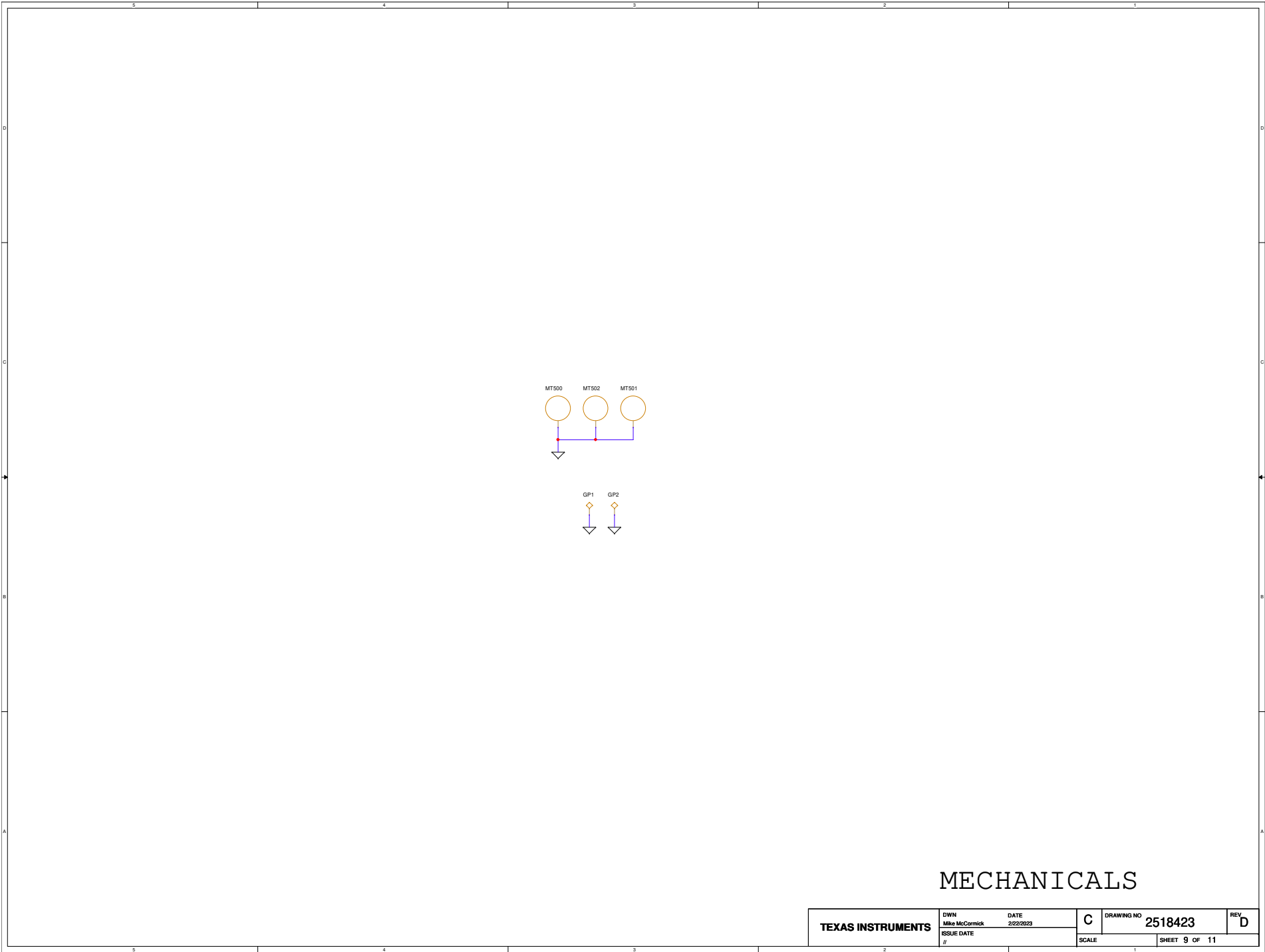


DLP9000X PWR/GND

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MECHANICALS

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	ISSUE DATE //				
			SCALE	SHEET 9 OF 11	

Revision B:

- Added R538 to Base input of Q500.
- Switched J1 and R504 to make default pull-up on EN_OFFSET
- Swapped off page connectors SCTRL_DP, SCTRL_DN and SCTRL_CP, SCTRL_CN on U1B (9000X). Now connected to correct pins.
- Changed R517 to 35.7k. For 480 MHz operation, data sheet states 3.45V nominal is required.
- R513 DMD_OEZ pullup resistor changed from DNI to installed
- Changed Q506 ISS55EP06LMXTSA1
- Changed D503 to MBR130HW
- Changed Q501 to TSM500P02CX RFG
- Changed Q503,Q504,Q505,Q507 to SI1302DL-T1-GE3

Revision C:

- Changed R504 to DNI
- Changed C500, C502, and C505 to 100uF capacitors.
- Changed R529 and R531 to 0 ohm resistors.
- Changed R530 to 6.04 ohm resistor.
- Changed D504 to SZ1SMA5913BT3G
- Changed Q504 and Q505 to DMN2065UWQ-7
- Added PWREN_3 connection to J500A pin B12 from DLPC910 Controller Board to control 3.3V power enable / disable of U502.
- Changed R2 to a pulldown on U502 enable input.
- Changed J2 to a 3 pin header to select DLPC910 board to allow TEST ONLY mode or DEFAULT mode for U502 enable.

Revision D:

- Changed R517 to 35.2K ohm 0.5% resistor.
- Changed R518 to 10K ohm 0.1% resistor.
- Updated output of U502 from 3.3V to 3.45V to match DLP9000X DMD Requirements.
- Removed mechanical assembly components in Mechanical page. Refer to literature DLPA067 for mounting hardware and quick reference guide for advanced light control DMDs.
- Changed GP1 and GP2 part to 5001
- Changed R516 to 0 ohm resistor.
- Changed D503 to MBR0530-TP

REVISIONS

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	ISSUE DATE #				
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	ISSUE DATE #				
			SCALE	SHEET 11 OF 11	