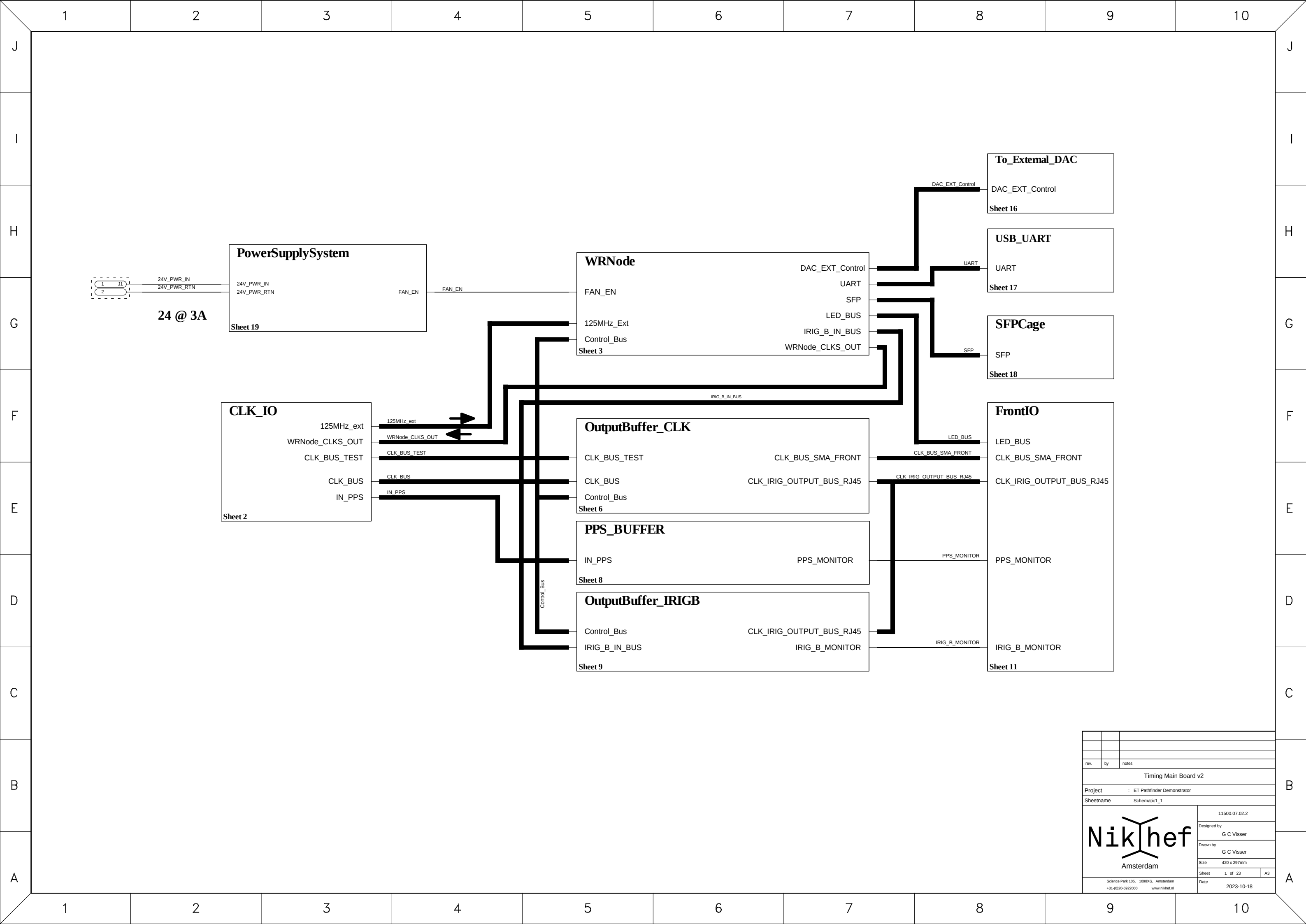
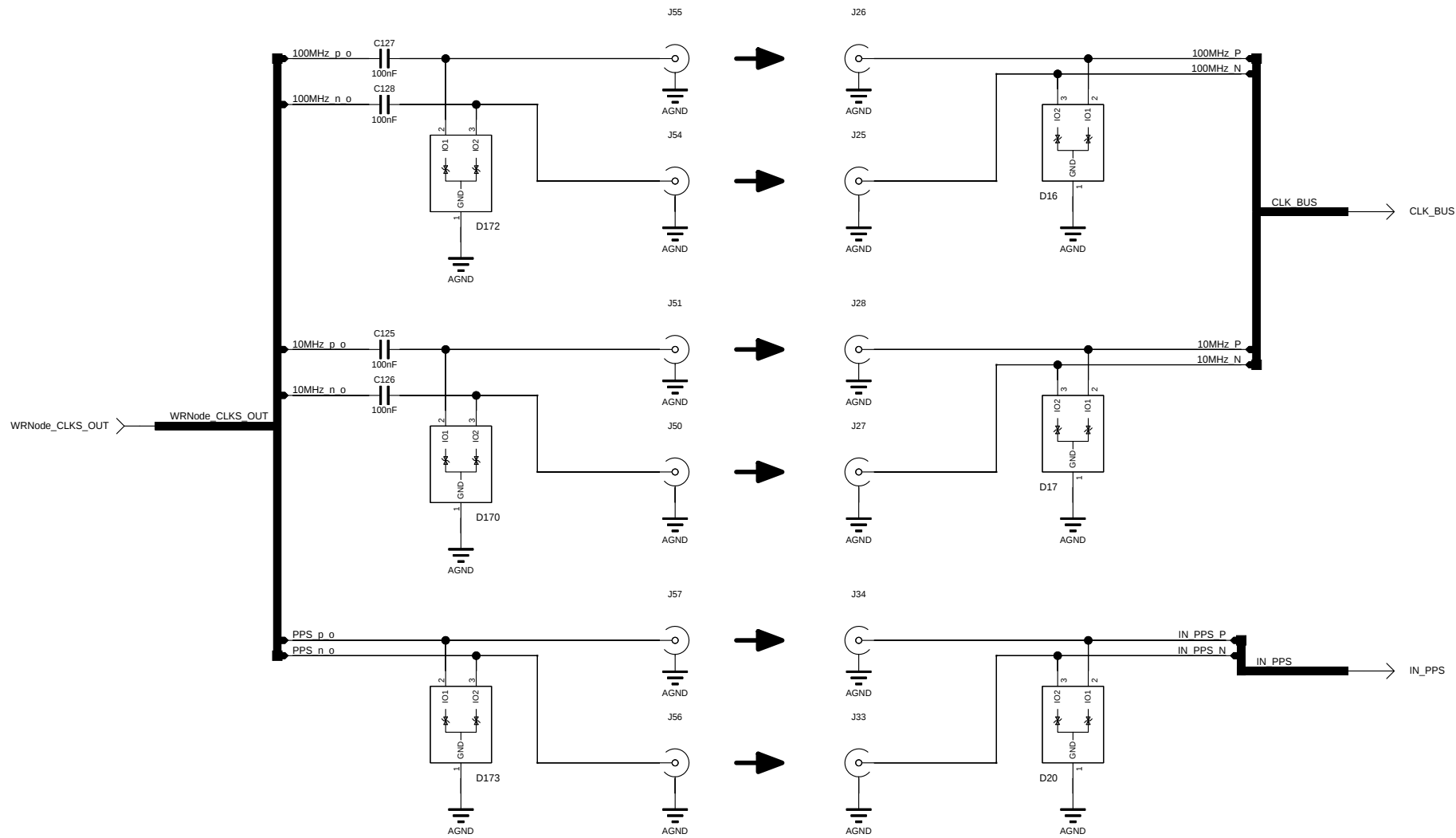


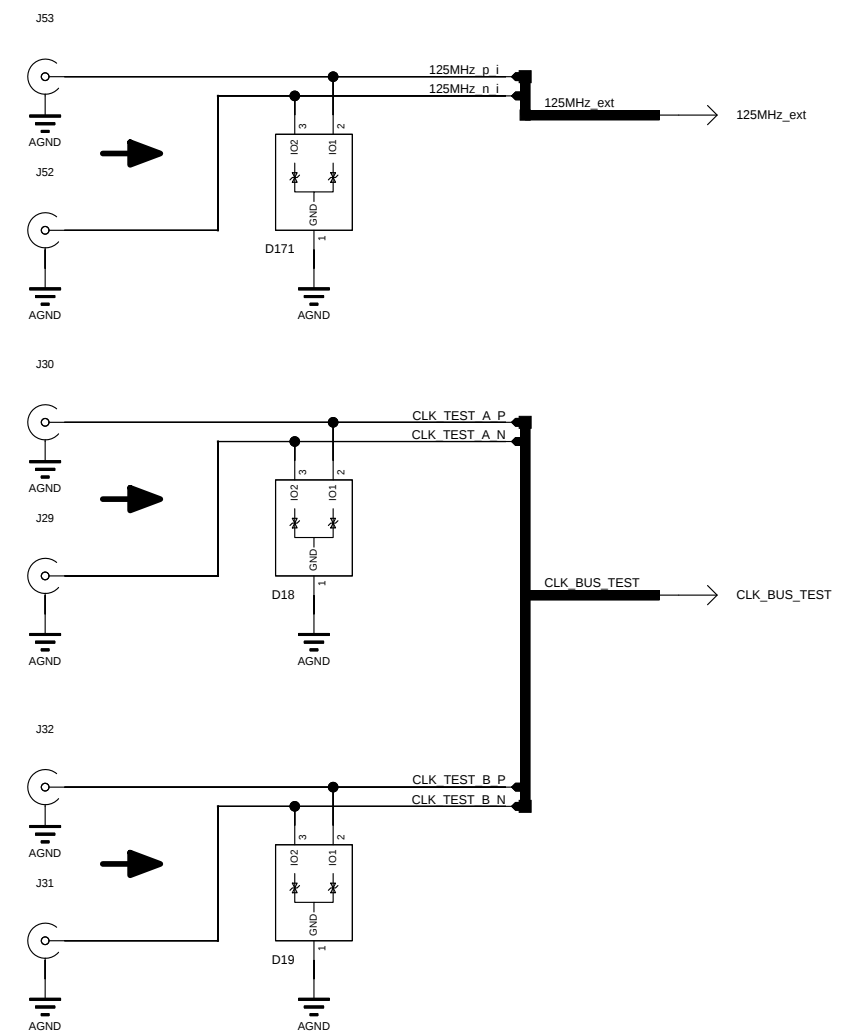


rev.	by	notes
Timing Main Board v2		
Project : ET Pathfinder Demonstrator		
Sheetname : Schematic1_1		
		11500.07.02.2
		Designed by G C Visser
		Drawn by G C Visser
		Size 420 x 297mm
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Either directly feed forward BabyWR outputs 10MHz, 100MHz and PPS
OR
Route them via cleancup reclocking Flip-Flops on an external High Precision
Oscillator board (100 MHzInTheLoop).



White Rabbit reference clock for BabyWR when using
an external High Precision Oscillator.



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Timing Main Board v2		
Project : ET Pathfinder Demonstrator		
Sheetname : CLK_IO		
		11500.07.02.2
		Designed by G C Visser
		Drawn by G C Visser
		Size 420 x 297mm
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		Date 2023-10-18

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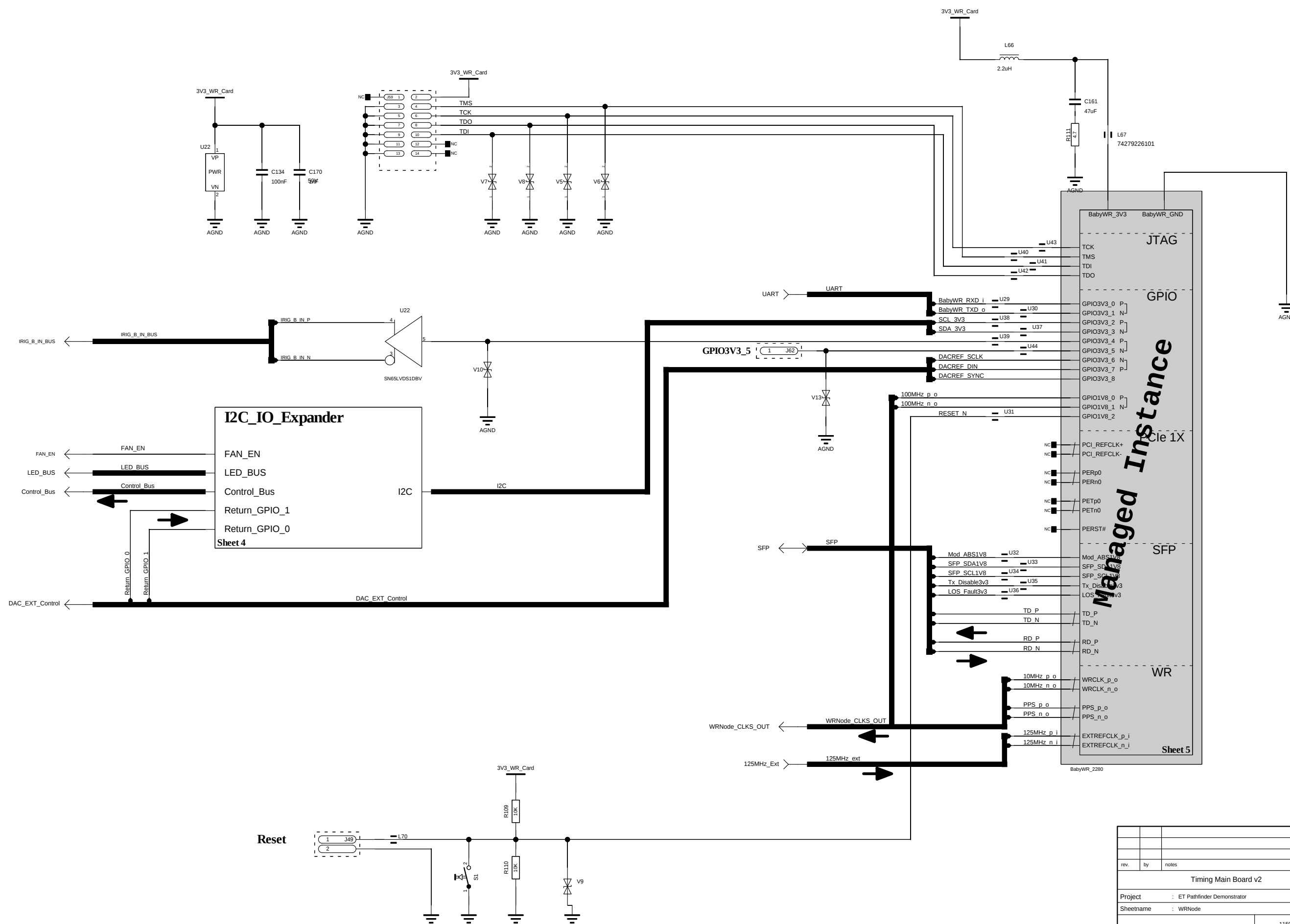
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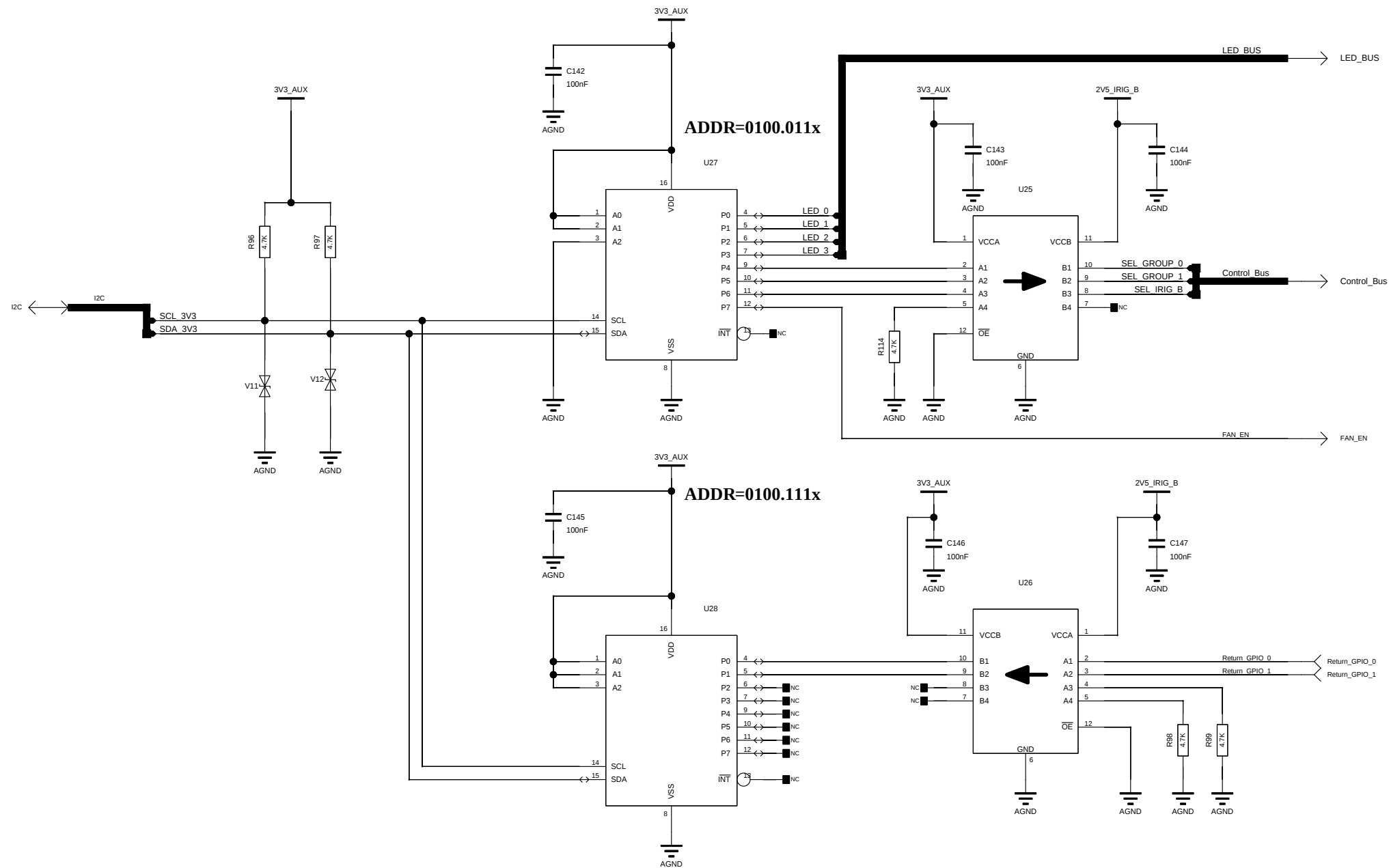
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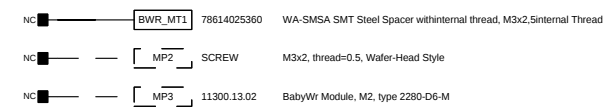
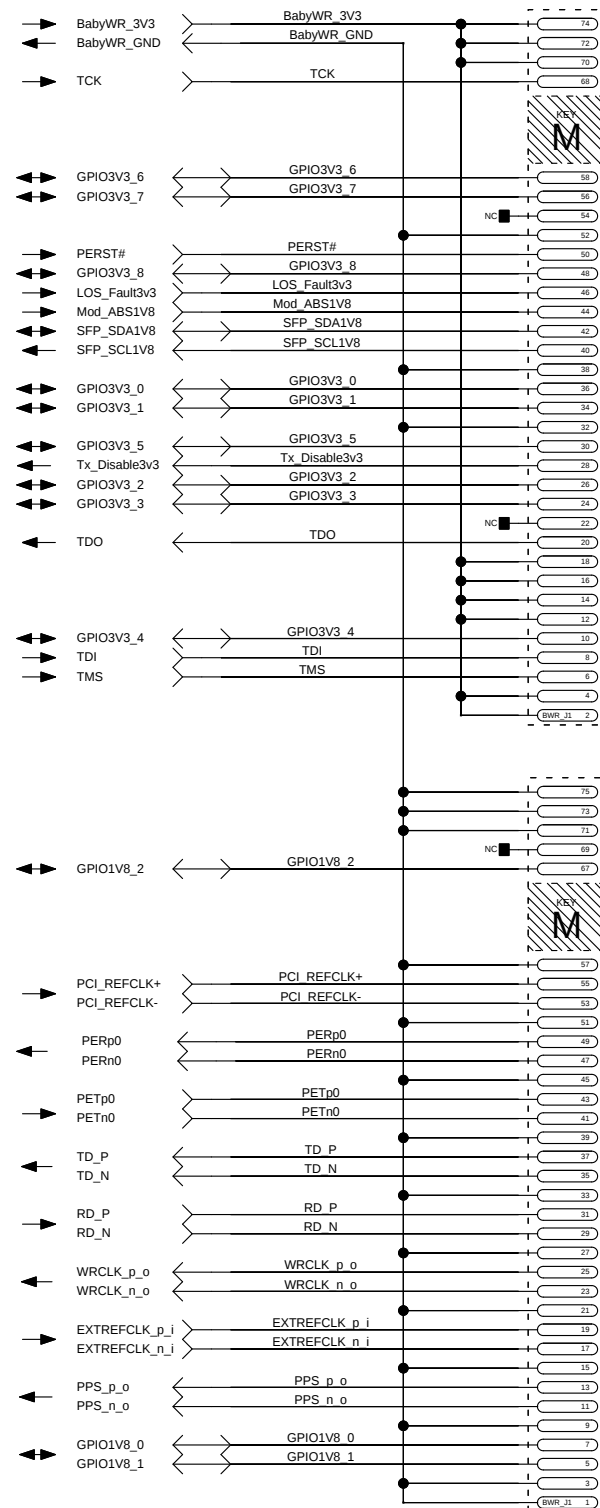
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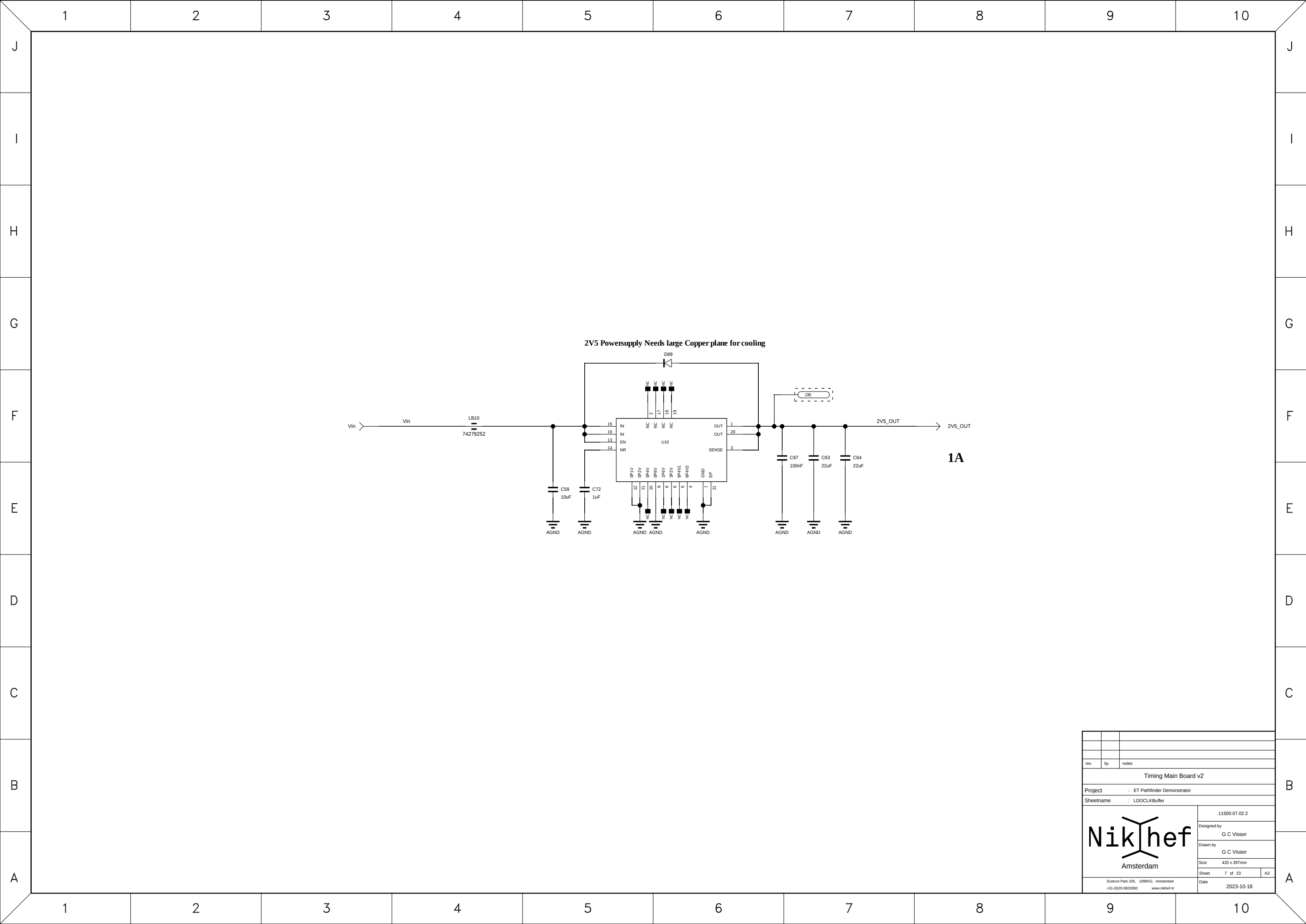
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Timing Main Board v2		
Project : ET Pathfinder Demonstrator		
Sheetname : WRNode		
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		Designed by G C Visser
		Drawn by G C Visser
		Size 420 x 297mm
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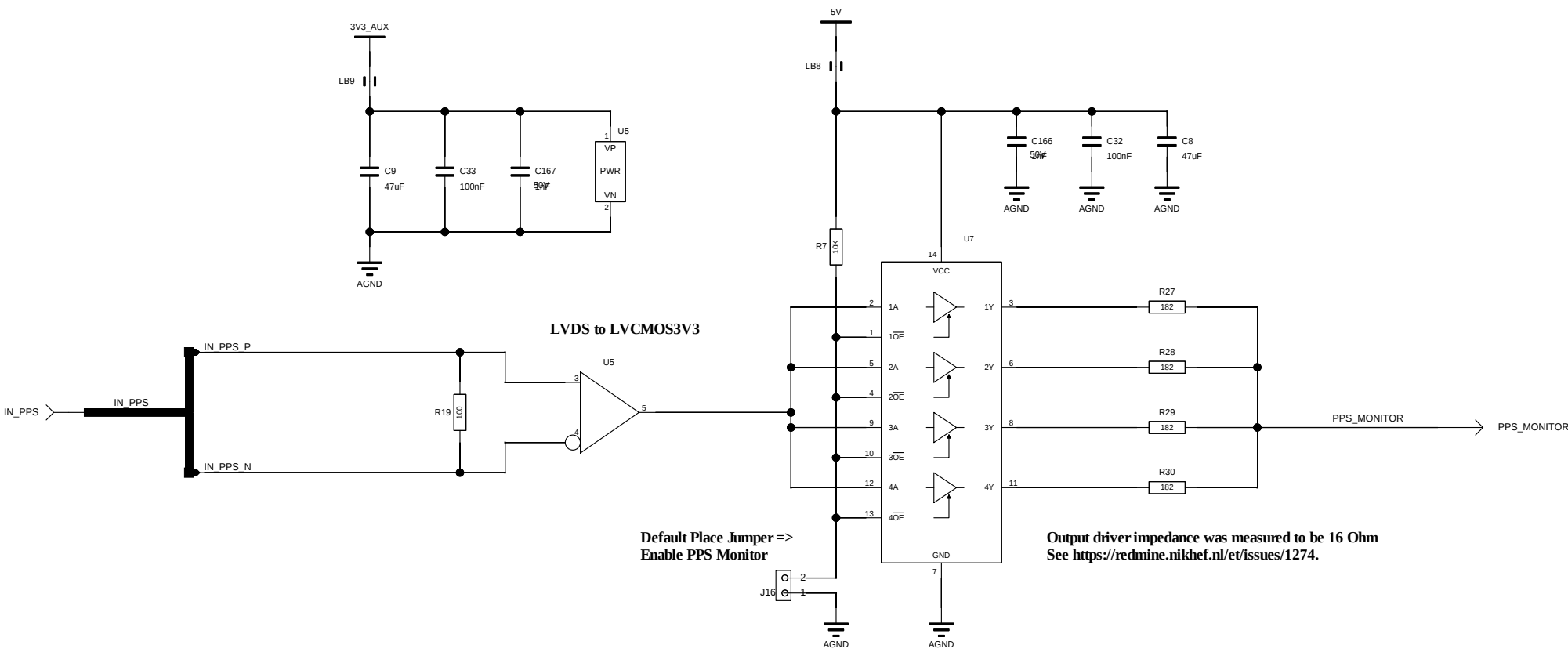
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Timing Main Board v2		
Project : ET Pathfinder Demonstrator		
Sheetname : I2C_IO_Expander		
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		Designed by G C Visser
		Drawn by G C Visser
		Size 420 x 297mm
Science Park 105, 1098XG, Amsterdam +31-(0)20-5922000 www.nikhef.nl		Sheet 4 of 23
		Date 2023-10-18



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<BOARD NAME>		
Project	:	<PROJECT NAME>
Sheetname	:	Fub552
 Nikhef Amsterdam		<ET NR>
		Designed by
		<NAME>
		Drawn by
		<NAME>
		Size
Sheet	5 of 1	A3
Date <YYYY-MM-DD>		
Science Park 106, 1098XG, Amsterdam +31-(0)20-5922000 www.nikhef.nl		



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Timing Main Board v2		
Project : ET Pathfinder Demonstrator		
Sheetname : LDOCLKBuffer		
		11500.07.02.2
		Designed by G C Visser
		Drawn by G C Visser
		Size 420 x 297mm
		Sheet 7 of 23
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Timing Main Board v2		
Project : ET Pathfinder Demonstrator		
Sheetname : PPS_BUFFER		
		11500.07.02.2
		Designed by G C Visser
		Drawn by G C Visser
		Size 420 x 297mm
		Sheet 8 of 23
Science Park 105, 1098XG, Amsterdam +31-(0)20-5922000 www.nikhef.nl		Date 2023-10-18



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Timing Main Board v2				
Project : ET Pathfinder Demonstrator				
Sheetname : LDOCLKBuffer				
		11500.07.02.2		
		Designed by G C Visser		
		Drawn by G C Visser		
		Size 420 x 297mm		
		Sheet	10 of 23	A3
		Date	2023-10-18	
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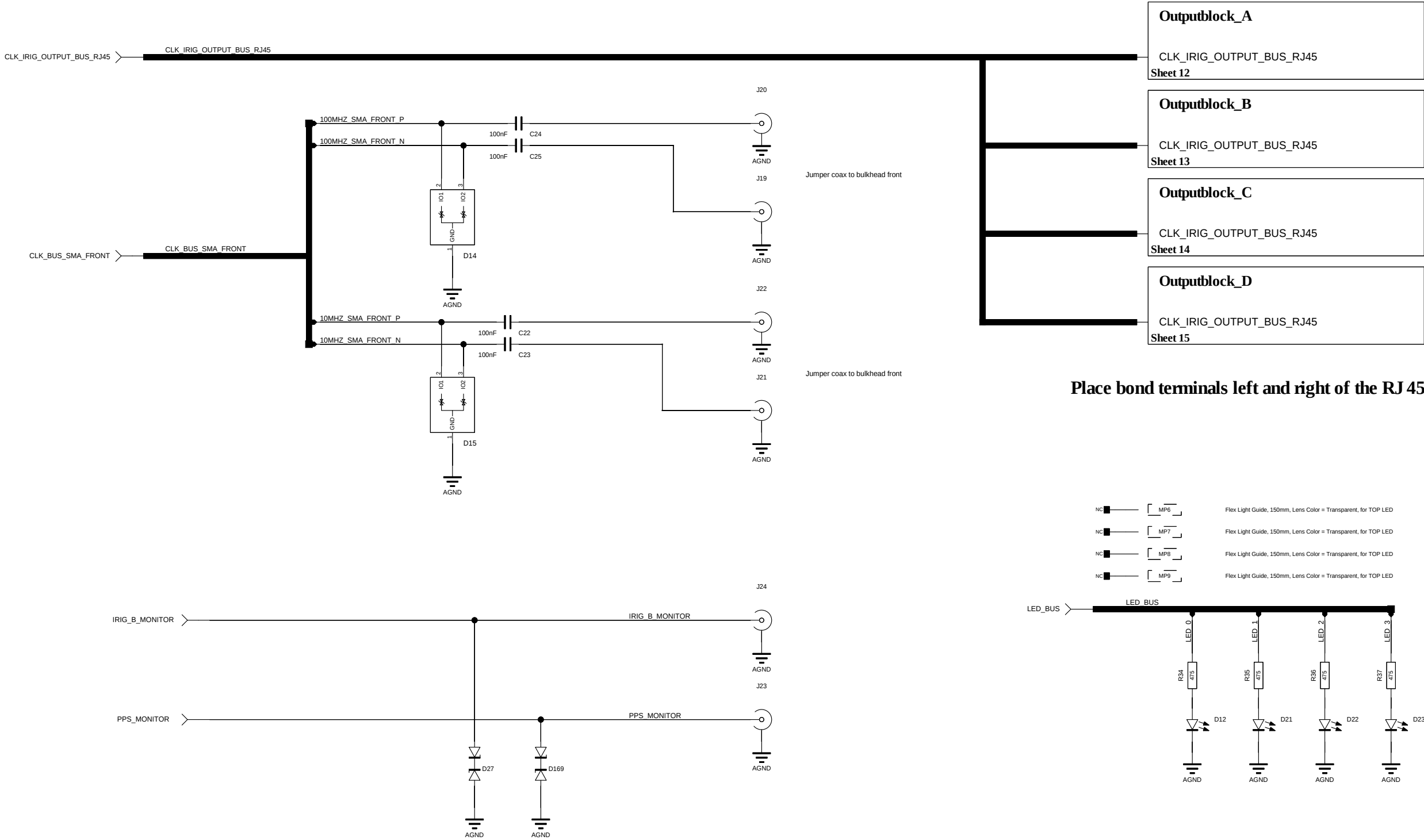
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Place bond terminals left and right of the RJ 45 blocks

- NC Flex Light Guide, 150mm, Lens Color = Transparent, for TOP LED
- NC Flex Light Guide, 150mm, Lens Color = Transparent, for TOP LED
- NC Flex Light Guide, 150mm, Lens Color = Transparent, for TOP LED
- NC Flex Light Guide, 150mm, Lens Color = Transparent, for TOP LED

rev.	by	notes
Timing Main Board v2		
Project : ET Pathfinder Demonstrator		
Sheetname : FrontIO		
		11500.07.02.2
		Designed by G C Visser
		Drawn by G C Visser
		Size 420 x 297mm
		Sheet 11 of 23 A3
Science Park 105, 1098XG, Amsterdam +31-(0)20-5922000 www.nikhef.nl		Date 2023-10-18

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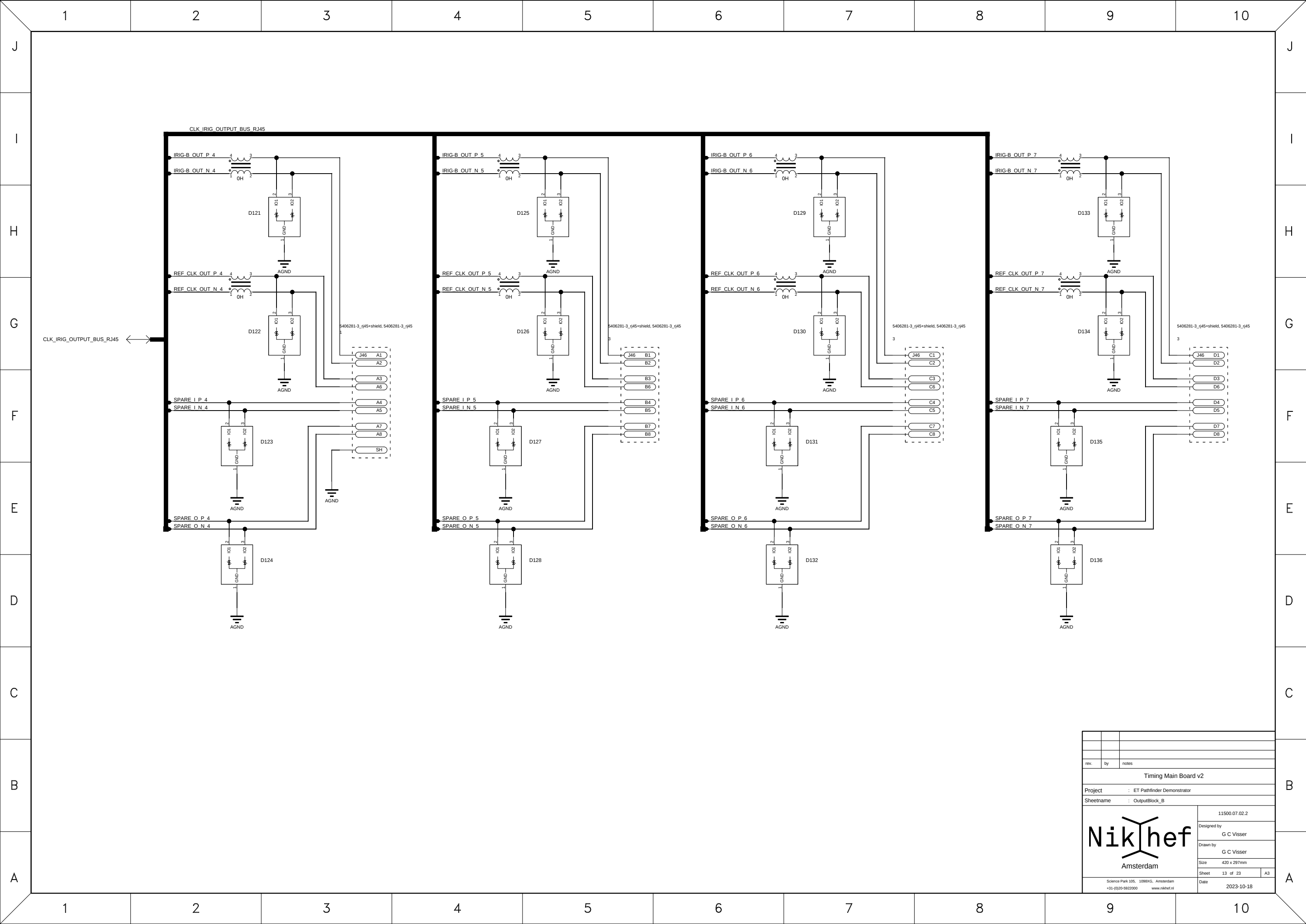
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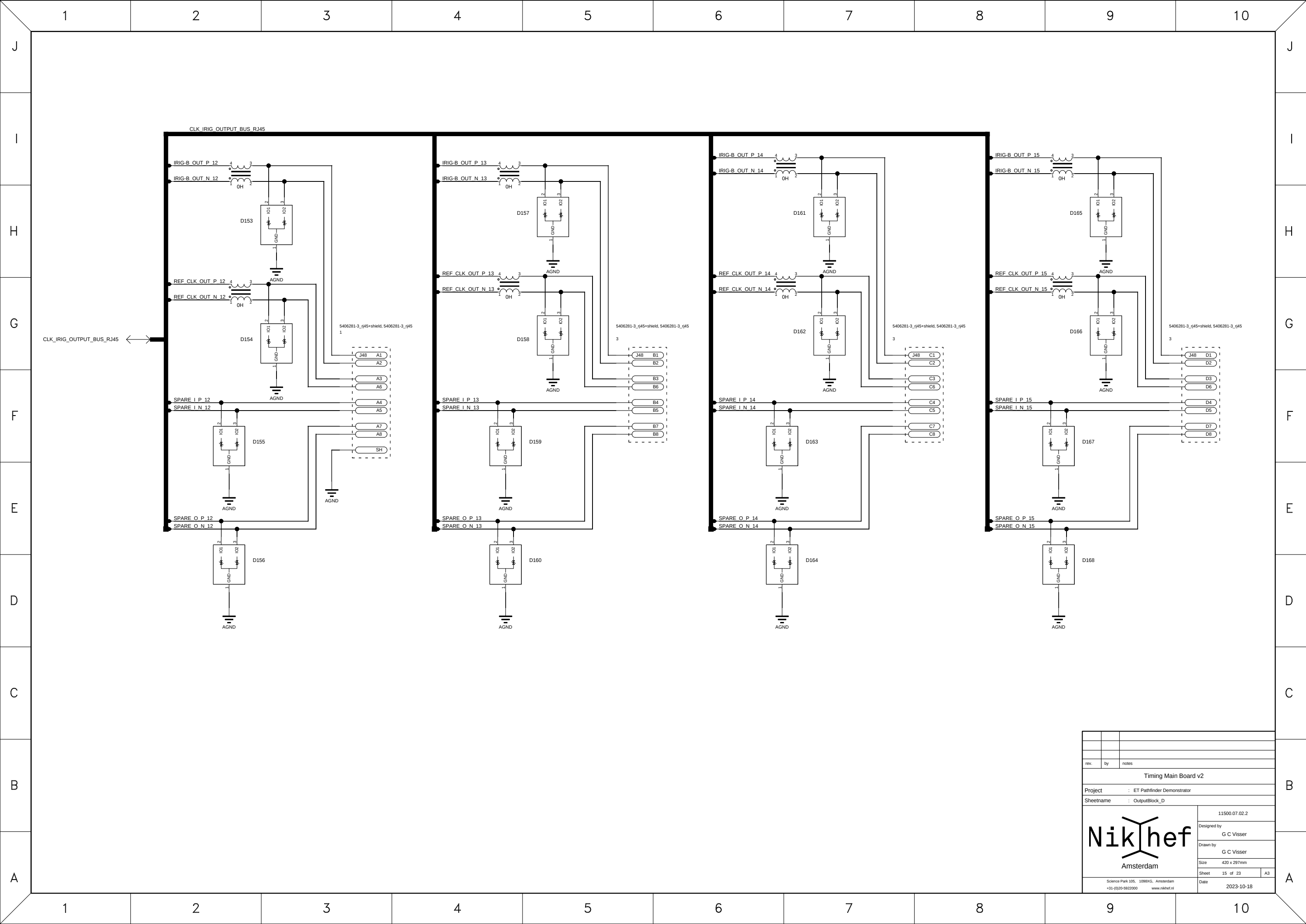
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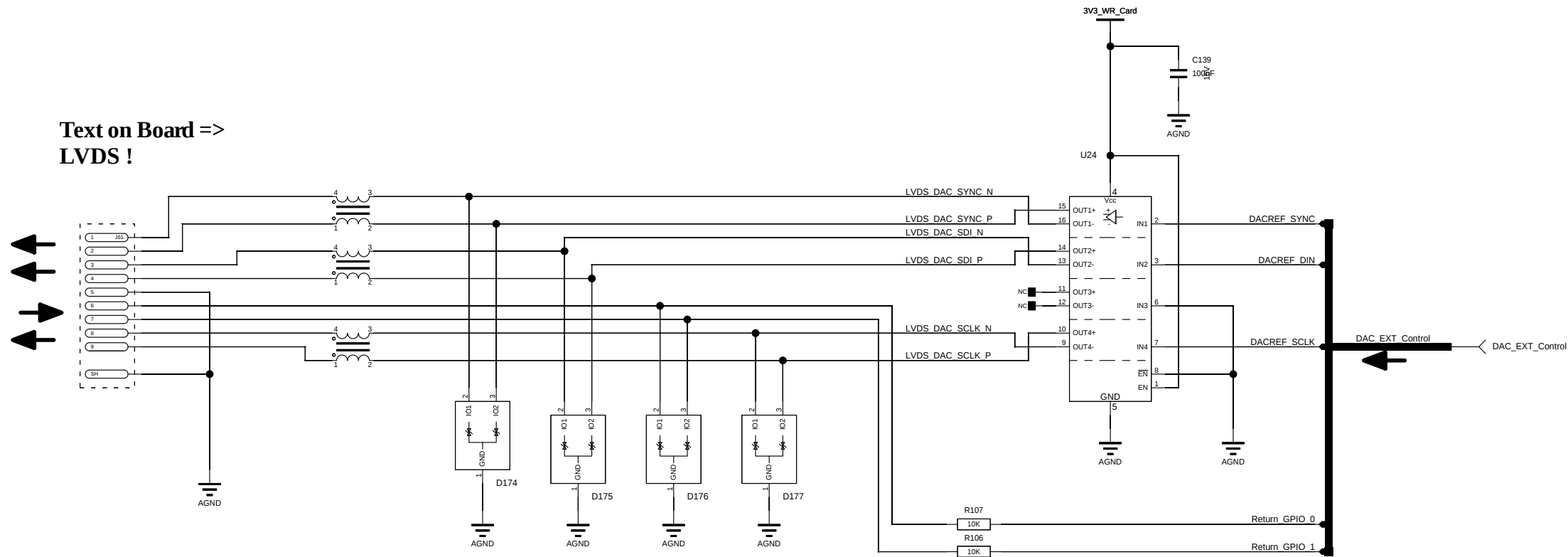
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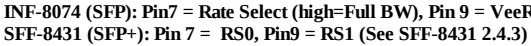
From WR. Tune
Reference oscillator.

Text on Board =>
LVDS !

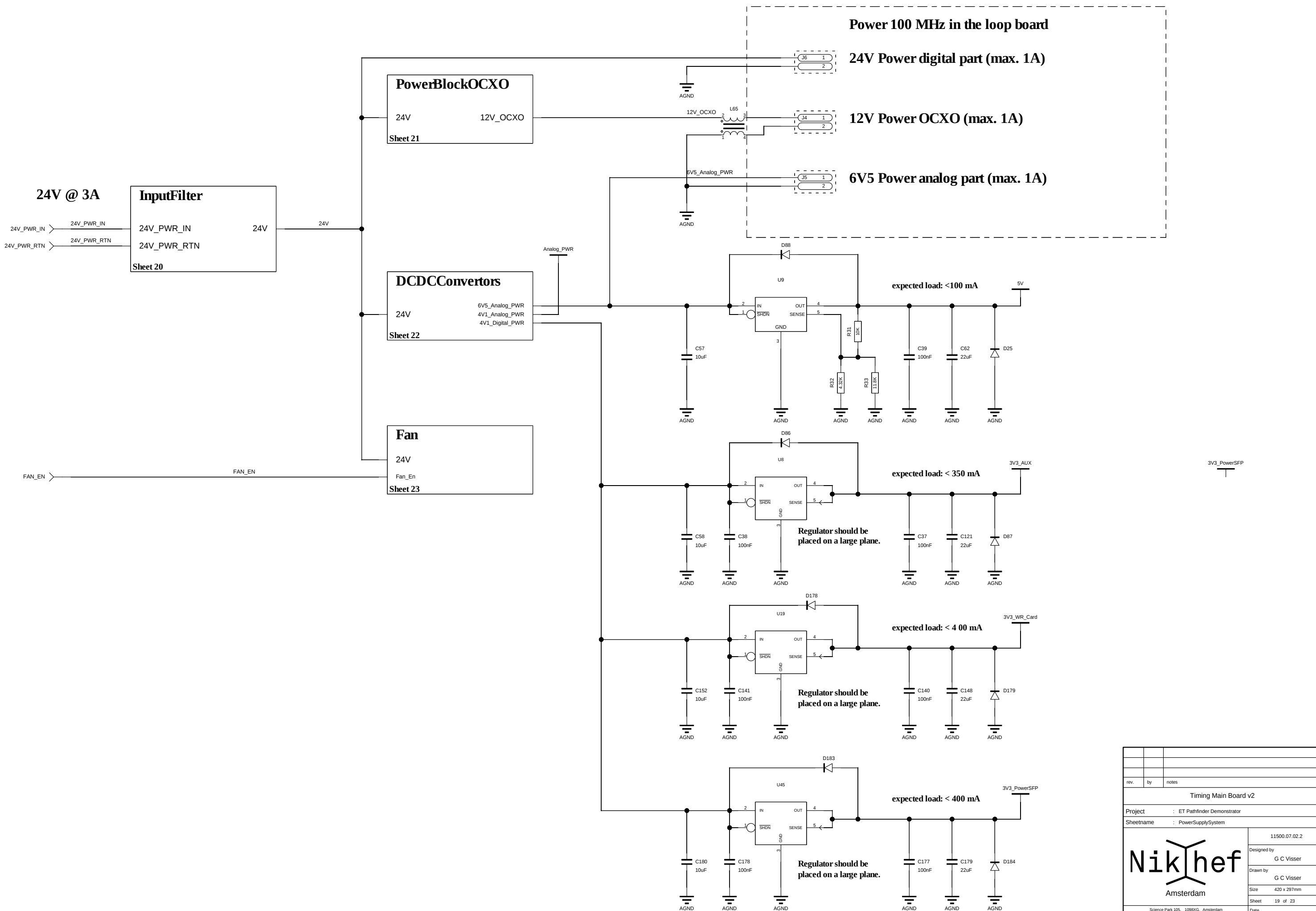


Can be used for various purpose
LVCMOS 2V5

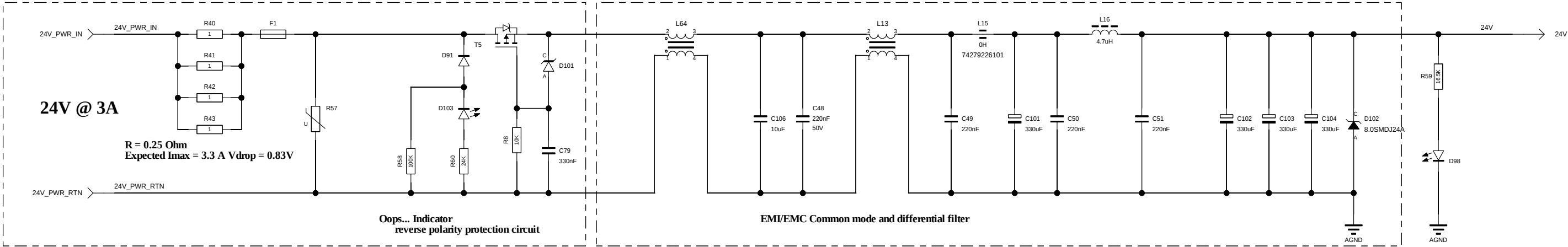
rev.	by	notes
Timing Main Board v2		
Project : ET Pathfinder Demonstrator		
Sheetname : To_External_DAC		
		11500.07.02.2
		Designed by G C Visser
		Drawn by G C Visser
		Size 420 x 297mm
		Sheet 16 of 23
Science Park 105, 1098XG, Amsterdam +31-(0)20-5922000 www.nikhef.nl		Date 2023-10-18



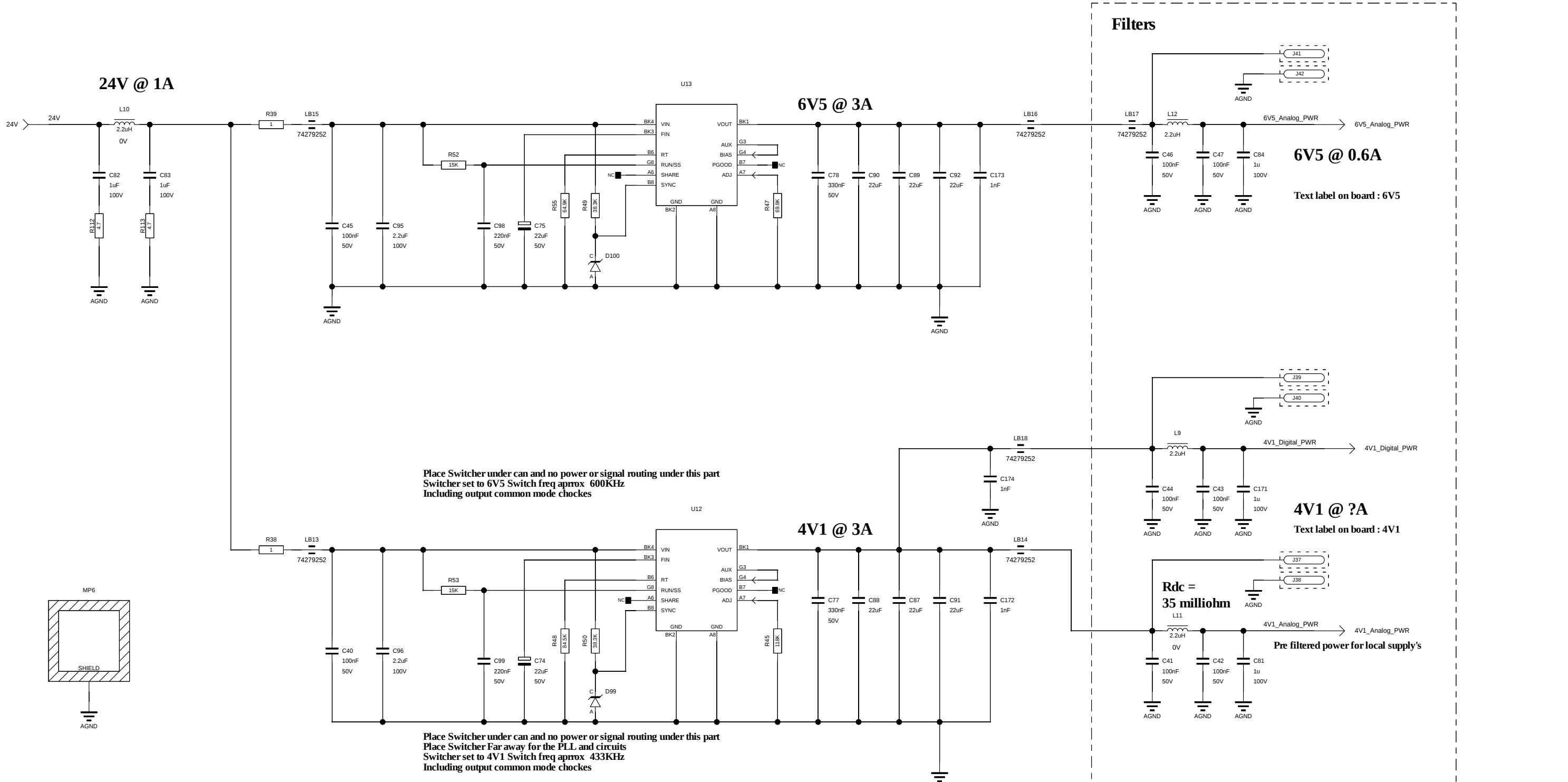
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Timing Main Board v2			
Project : ET Pathfinder Demonstrator			
Sheetname : SFPCase			
		11500.07.02.2	
		Designed by G C Visser	
		Drawn by G C Visser	
		Size 420 x 297mm	
		Sheet	18 of 23
		Date	A3
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Timing Main Board v2		
Project : ET Pathfinder Demonstrator		
Sheetname : PowerSupplySystem		
Nikhef Amsterdam		11500.07.02.2
		Designed by G C Visser
		Drawn by G C Visser
		Size 420 x 297mm
		Sheet 19 of 23
Science Park 105, 1098XG, Amsterdam +31-(0)20-5922000 www.nikhef.nl		Date 2023-10-18



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Timing Main Board v2		
Project : ET Pathfinder Demonstrator		
Sheetname : InputFilter		
		11500.07.02.2
		Designed by G C Visser
		Drawn by G C Visser
		Size 420 x 297mm
		Sheet 20 of 23
Science Park 105, 1098XG, Amsterdam +31-(0)20-5922000 www.nikhef.nl		Date 2023-10-18



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Timing Main Board v2		
Project : ET Pathfinder Demonstrator		
Sheetname : DCDConvertors		
Nikhef Amsterdam		11500.07.02.2
		Designed by G C Visser
		Drawn by G C Visser
		Size 420 x 297mm
Science Park 105, 1098XG, Amsterdam +31-(0)20-5922000 www.nikhef.nl		Sheet 22 of 23
		Date 2023-10-18

