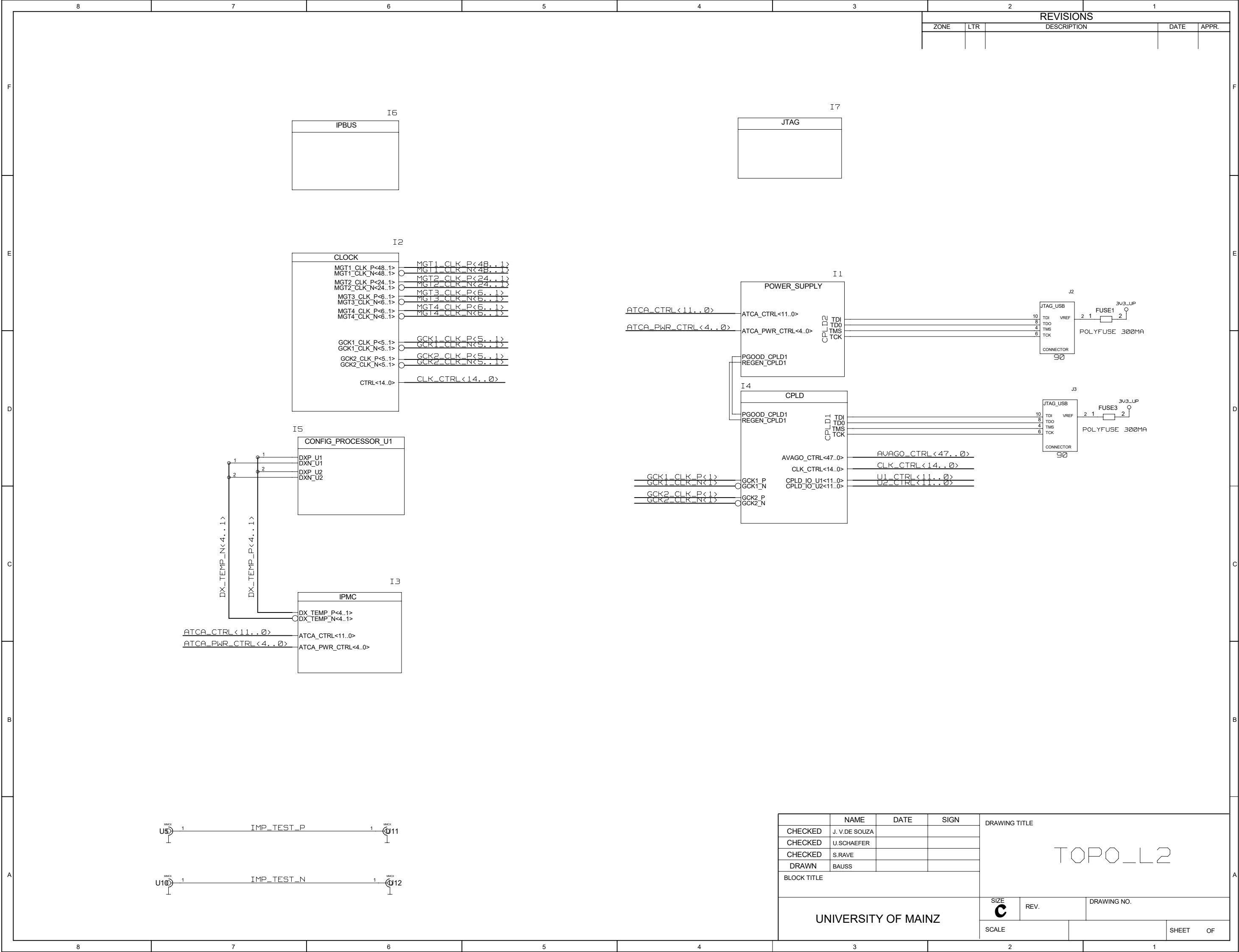
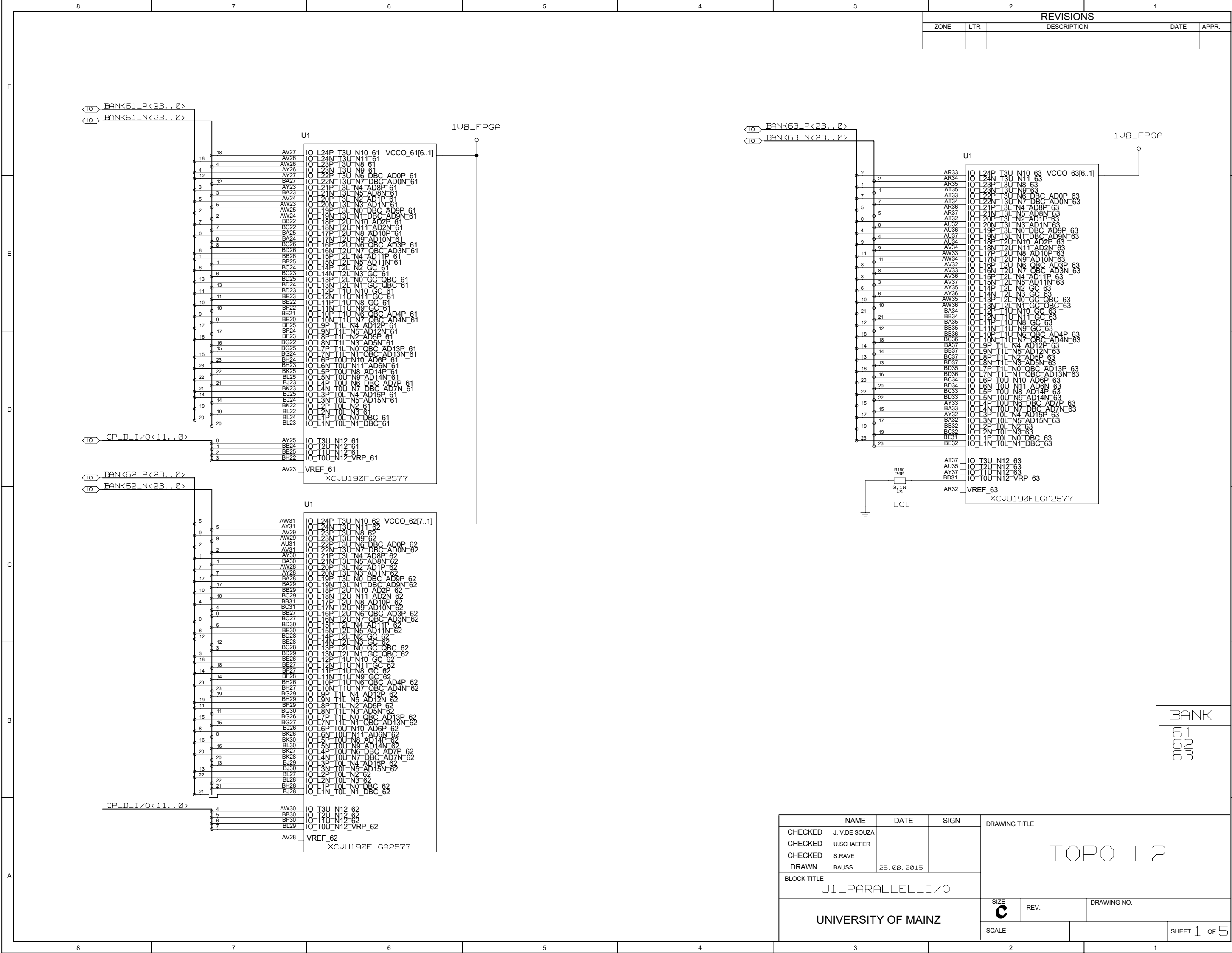
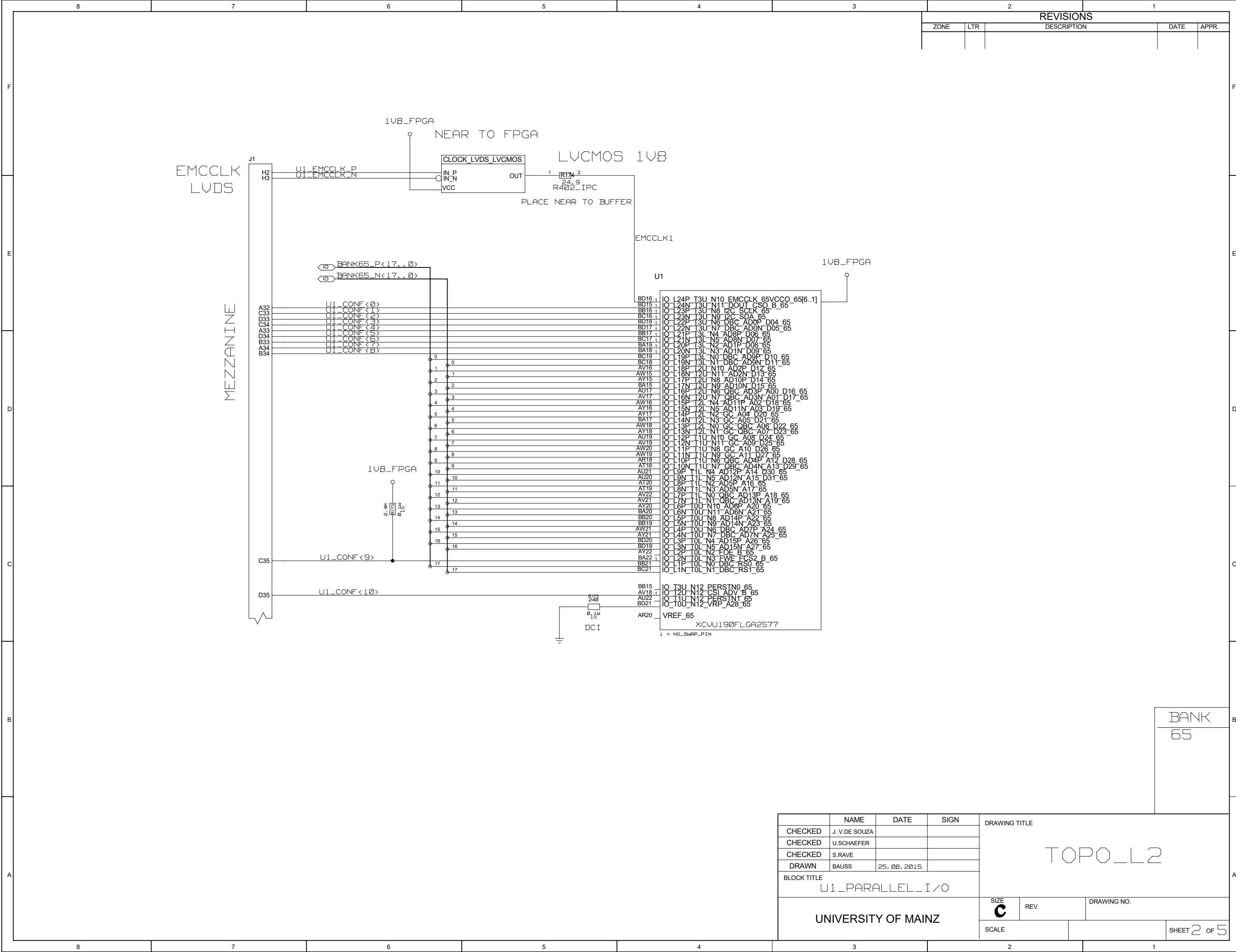
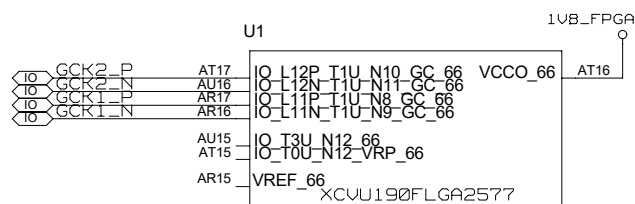
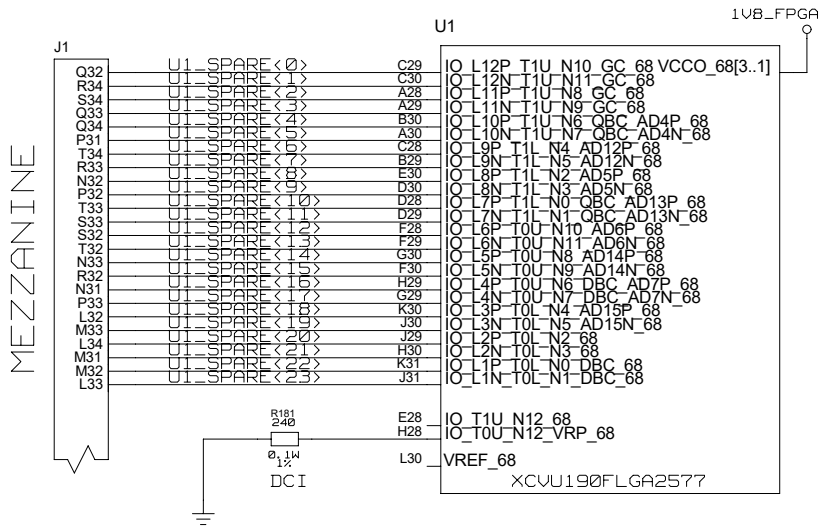






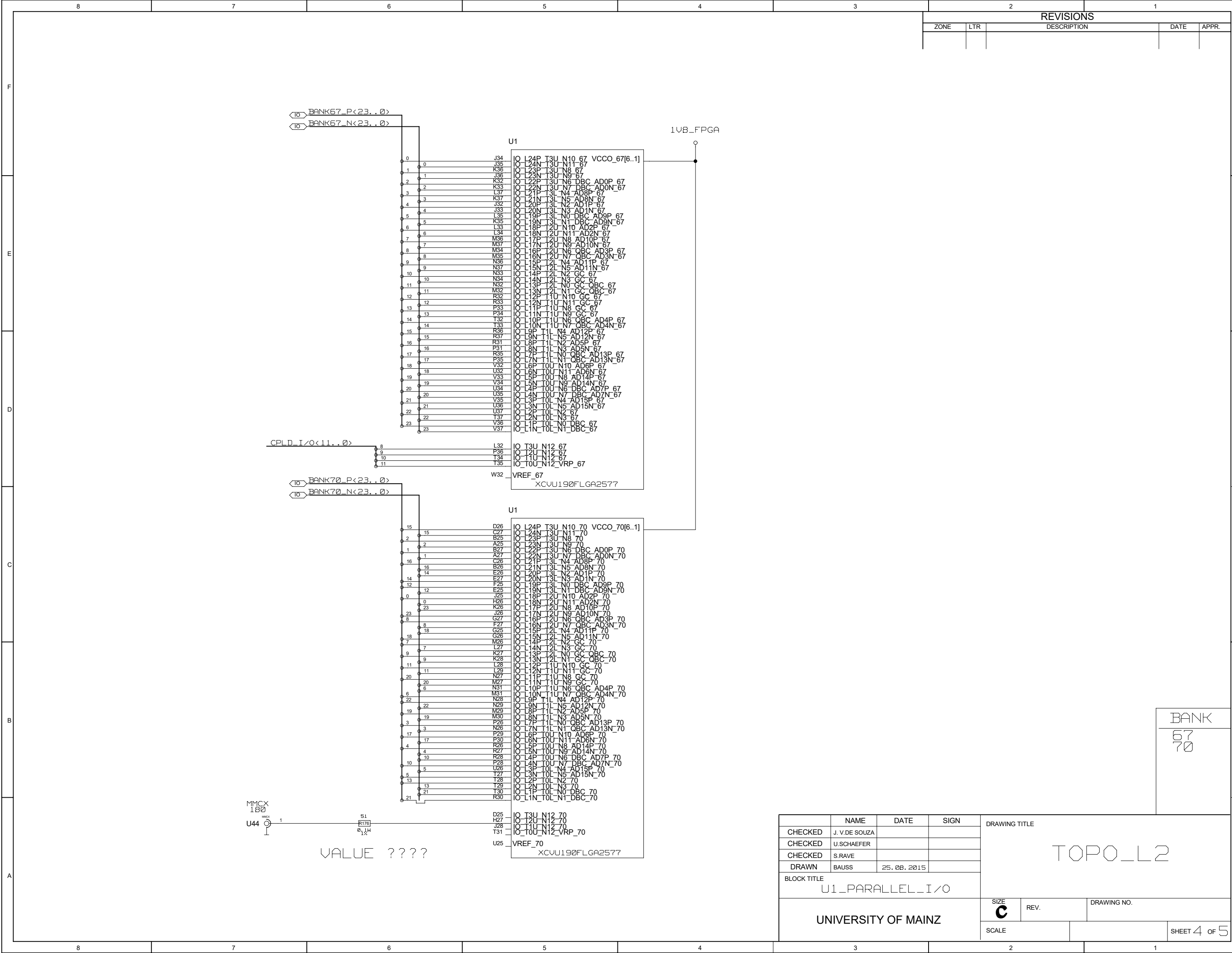




REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

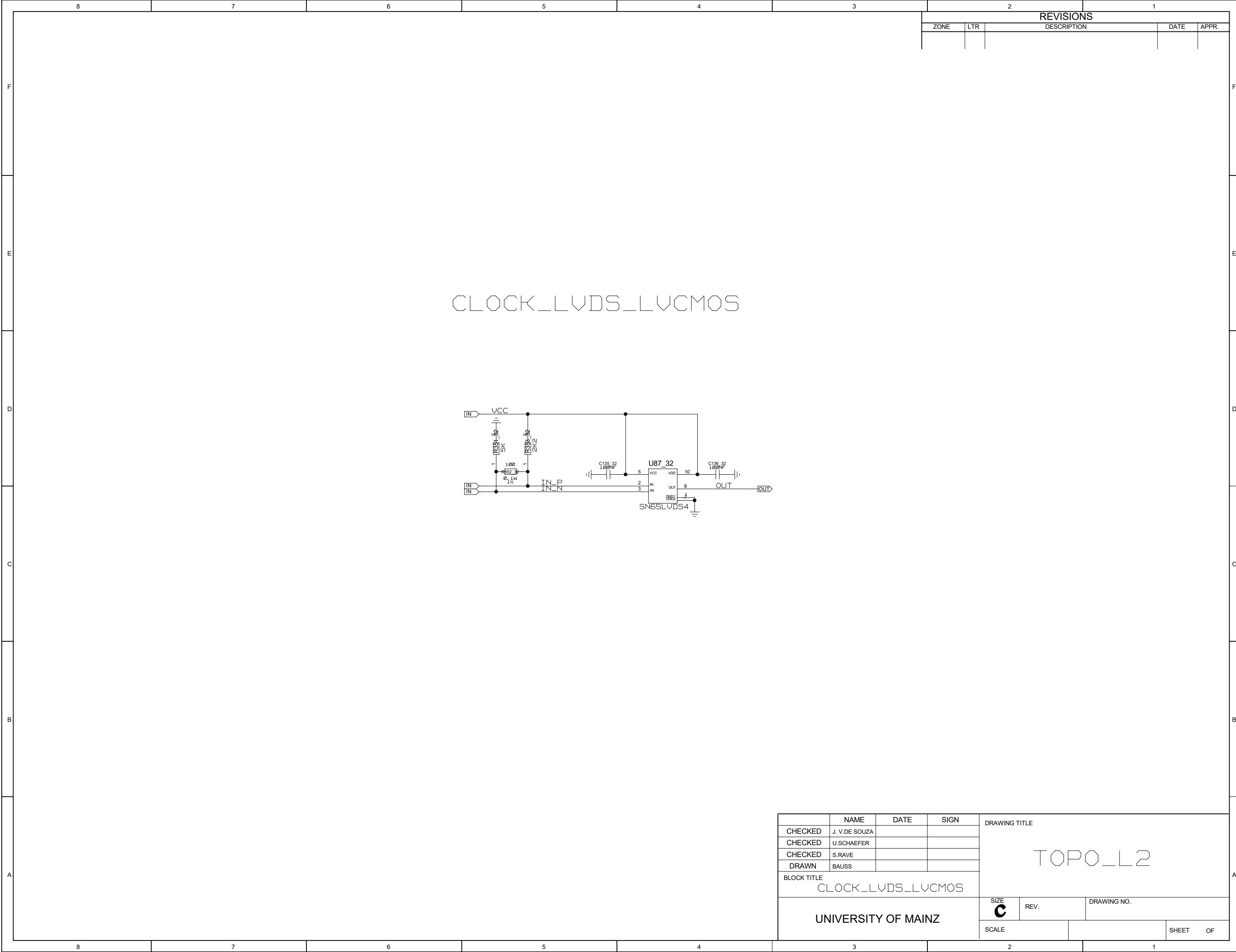
BANK
66
68

CHECKED	J. V.DE SOUZA	DATE	SIGN	DRAWING TITLE TOPO_L2	
CHECKED	U.SCHAEFER				
CHECKED	S.RAVE				
DRAWN	BAUSS	25. 08. 2015			
BLOCK TITLE U1_PARALLEL_I/O				SIZE C	REV.
UNIVERSITY OF MAINZ				DRAWING NO.	
				SCALE	SHEET 3 OF 5

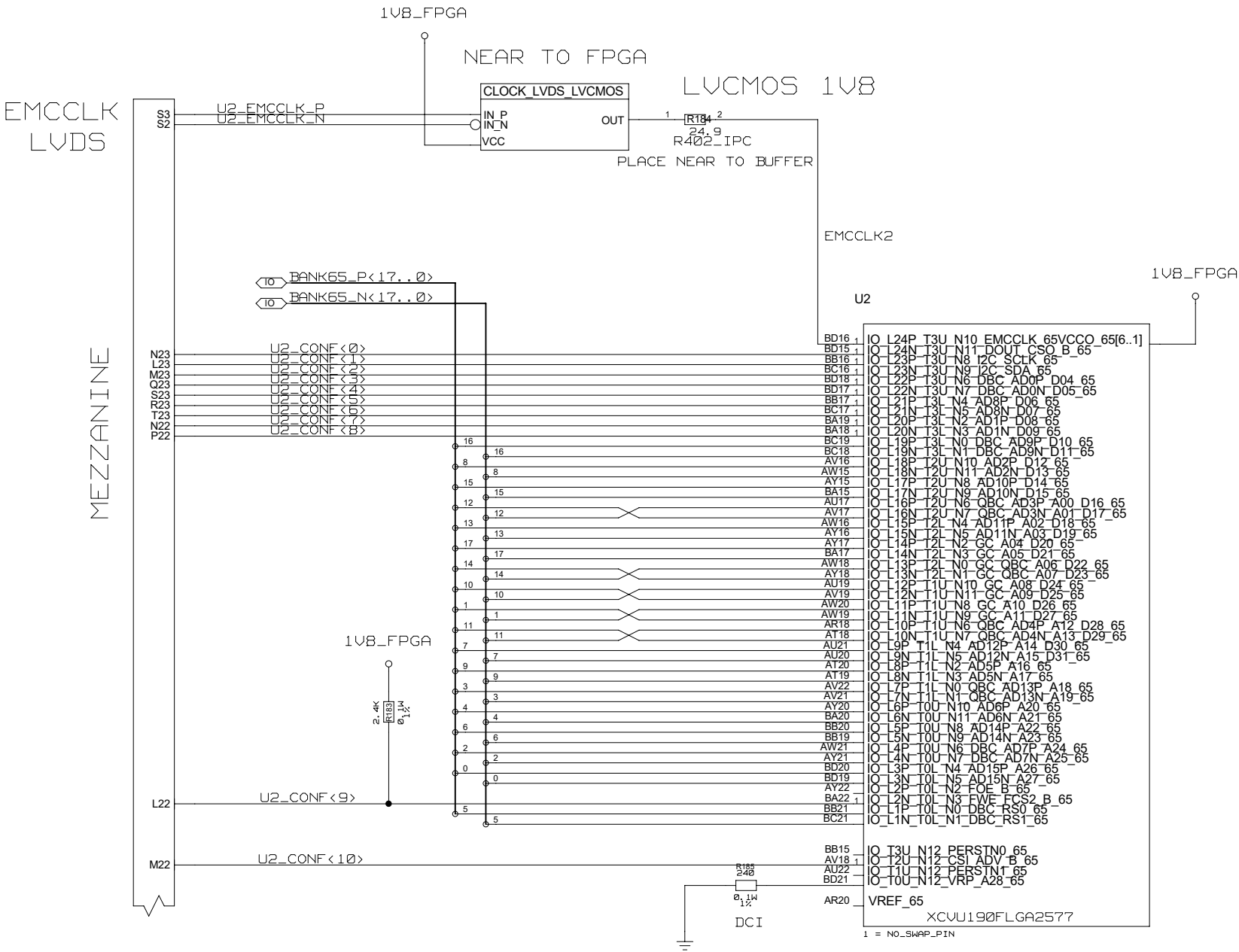


REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

	NAME	DATE	SIGN	DRAWING TITLE TOPO_L2	
CHECKED	J. V.DE SOUZA				
CHECKED	U.SCHAEFER				
CHECKED	S.RAVE				
DRAWN	BAUSS	25.08.2015			
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UNIVERSITY OF MAINZ				DRAWING NO.	
				SCALE	SHEET 4 OF 5

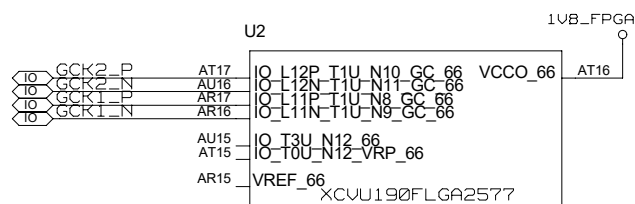
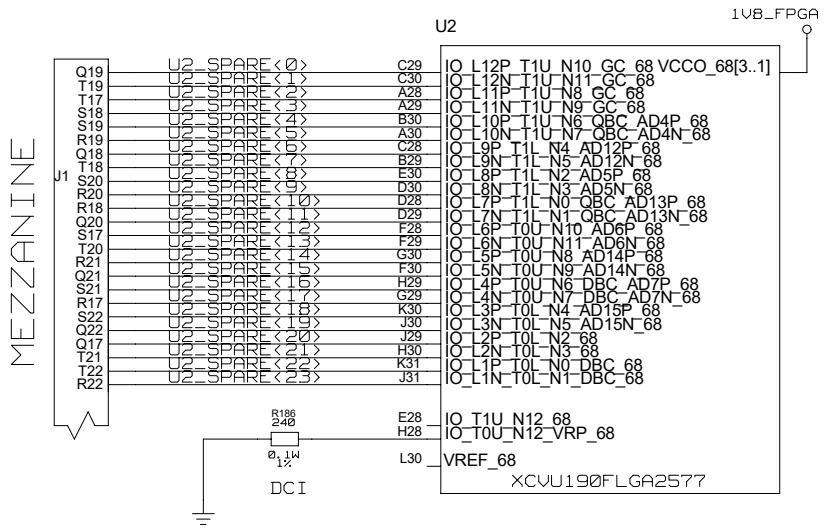


REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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65

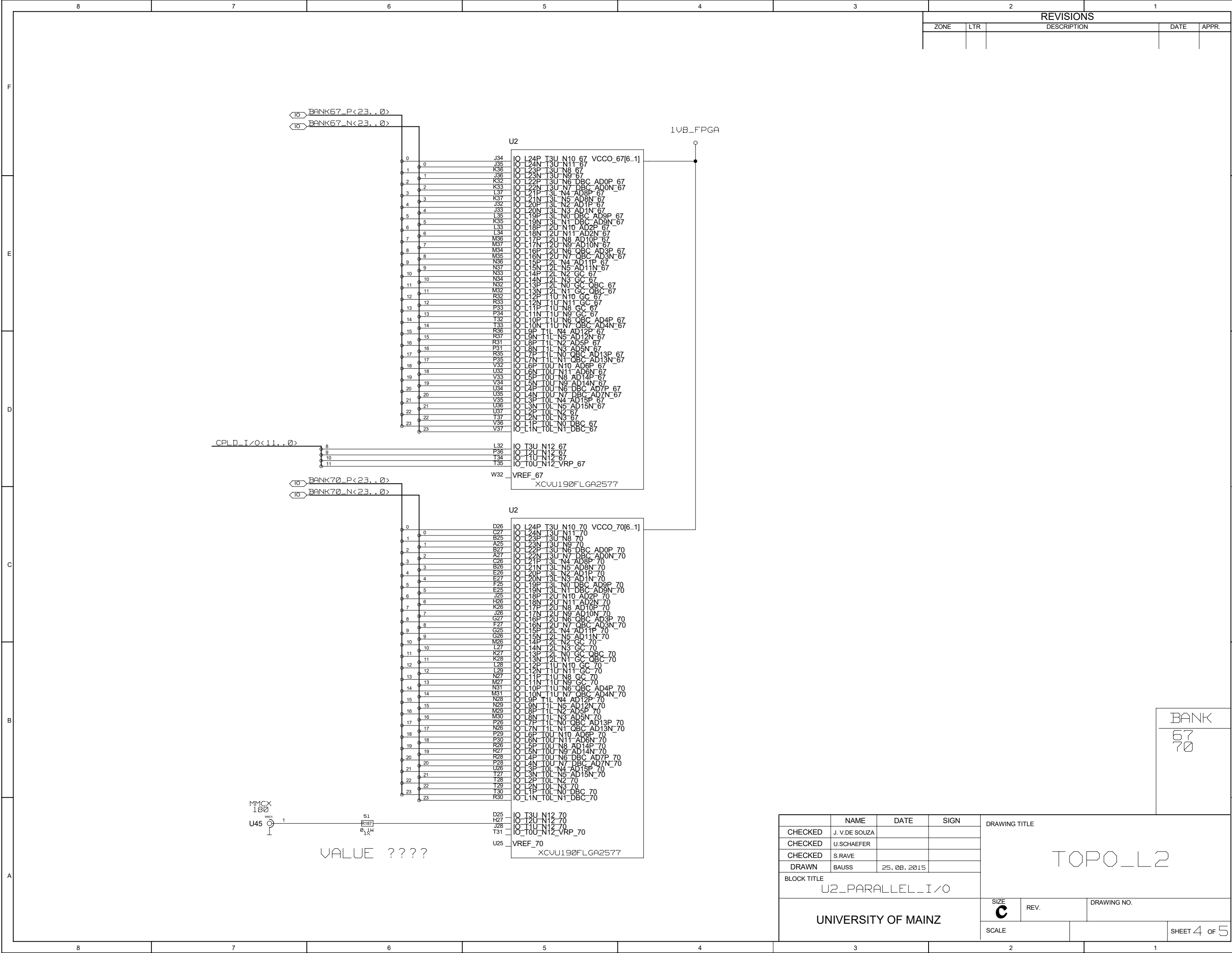
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CHECKED	U.SCHAEFER				
CHECKED	S.RAVE				
DRAWN	BAUSS	25.08.2015			
BLOCK TITLE				U2_PARALLEL_I/O	
UNIVERSITY OF MAINZ				SIZE C	REV.
				SCALE	DRAWING NO.
				SHEET 2 OF 5	



REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

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66
68

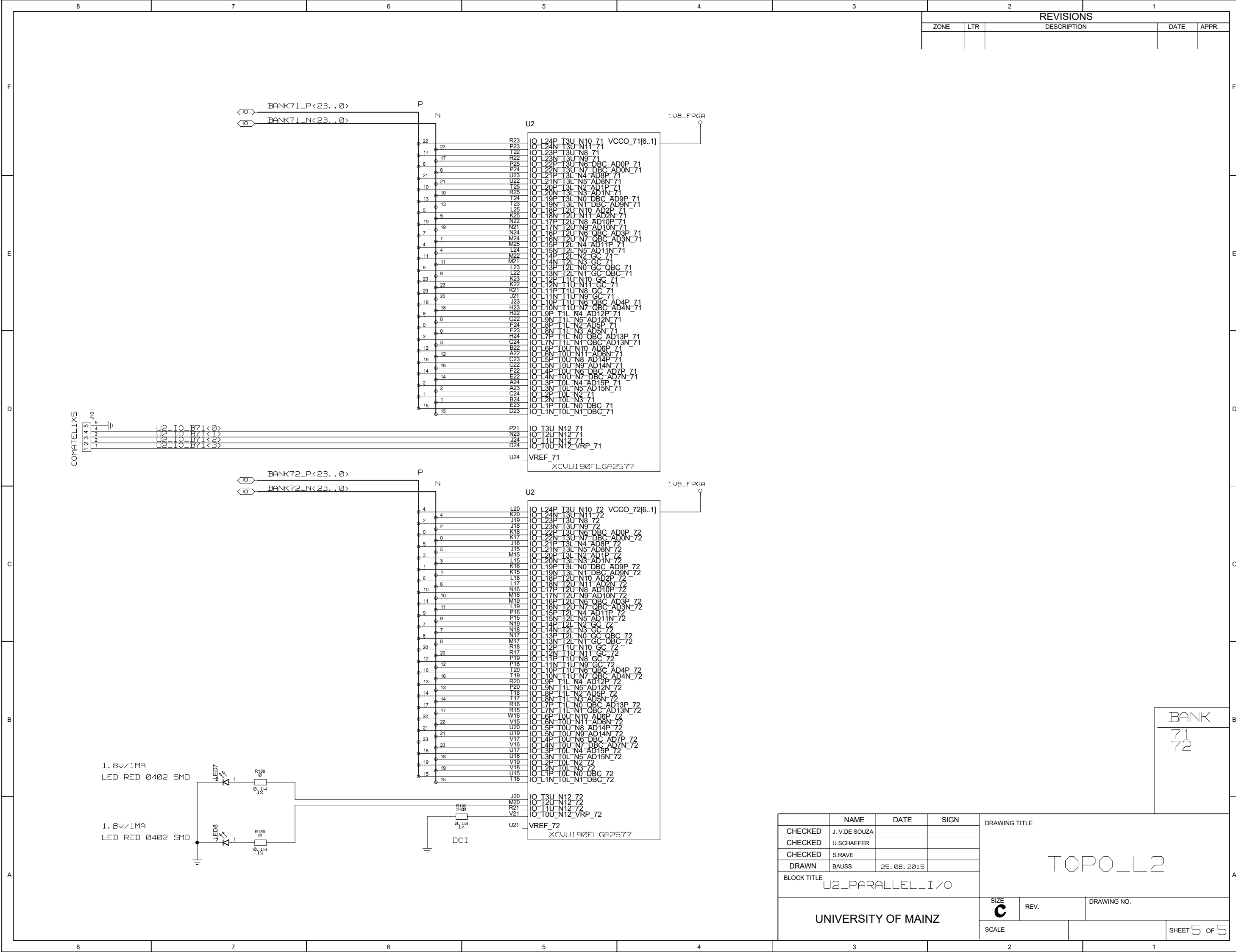
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CHECKED	U.SCHAEFER				
CHECKED	S.RAVE				
DRAWN	BAUSS	25. 08. 2015			
BLOCK TITLE U2_PARALLEL_I/O				SIZE C	REV.
UNIVERSITY OF MAINZ				DRAWING NO.	
				SCALE	SHEET 3 OF 5



REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

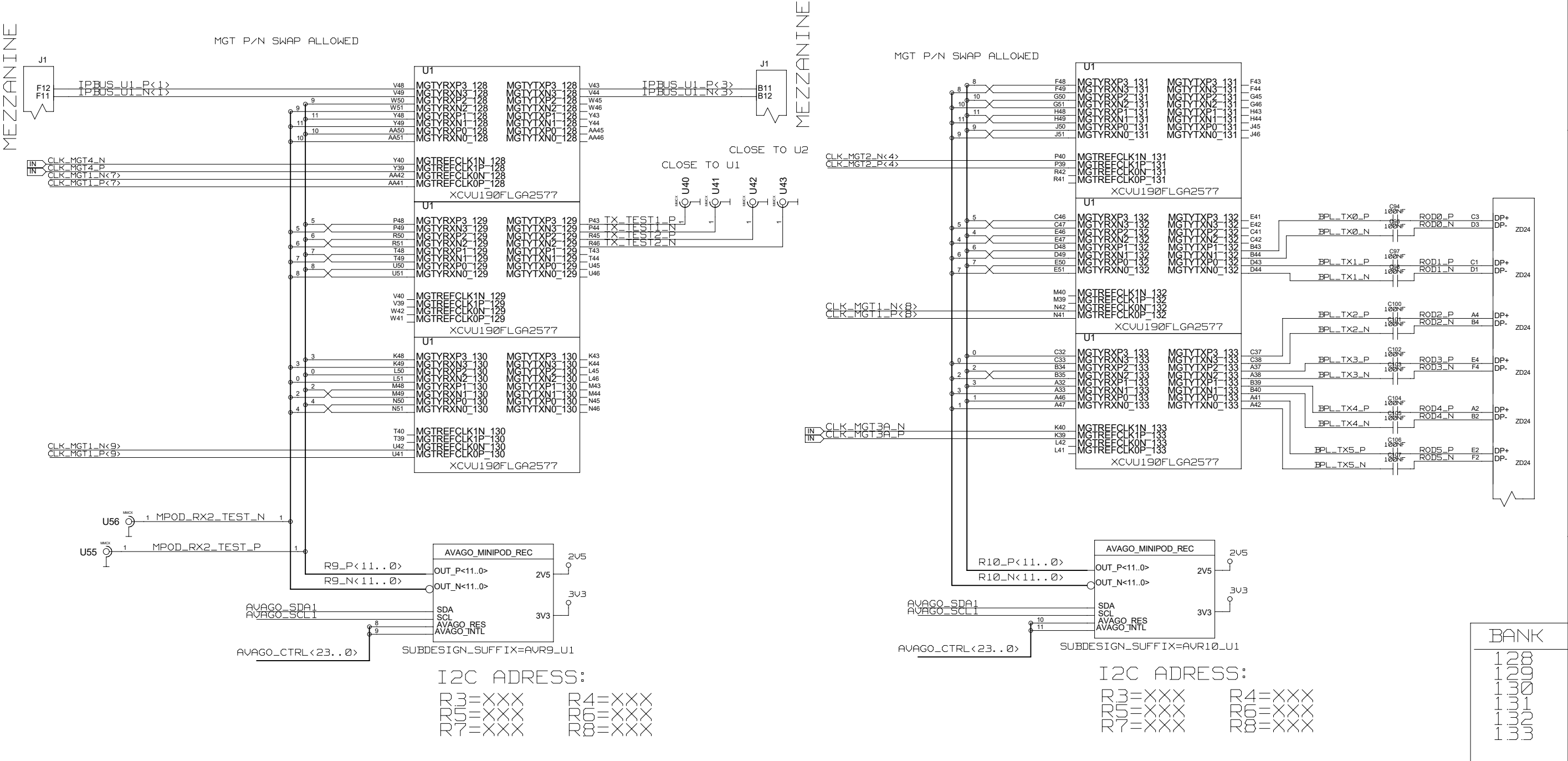
BANK
67
70

	NAME	DATE	SIGN	DRAWING TITLE TOPO_L2	
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CHECKED	U.SCHAEFER				
CHECKED	S.RAVE				
DRAWN	BAUSS	25.08.2015		BLOCK TITLE U2_PARALLEL_I/O	
UNIVERSITY OF MAINZ				SIZE C	DRAWING NO.
				SCALE	SHEET 4 OF 5

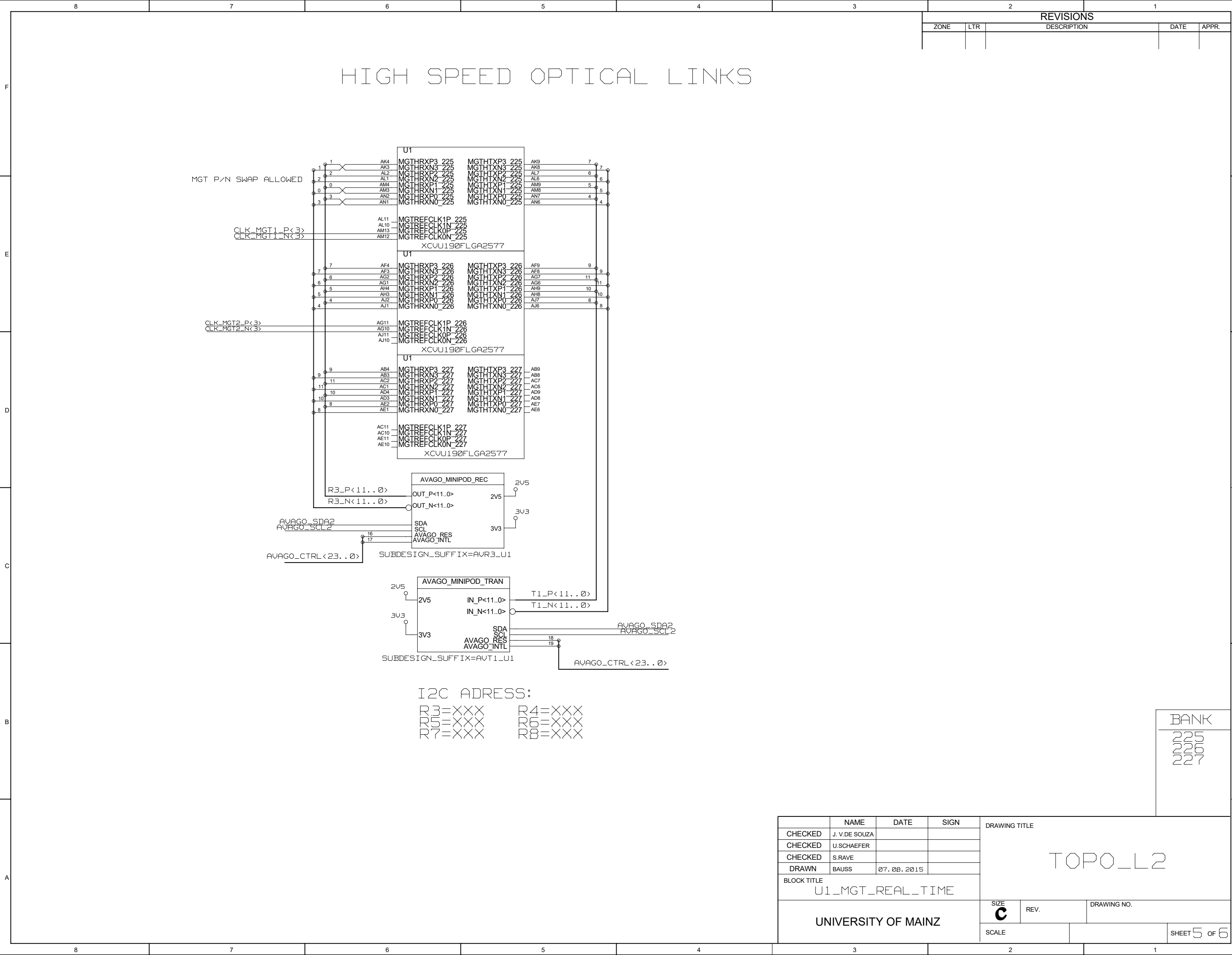


HIGH SPEED OPTICAL LINKS
HIGH SPEED IPBUS

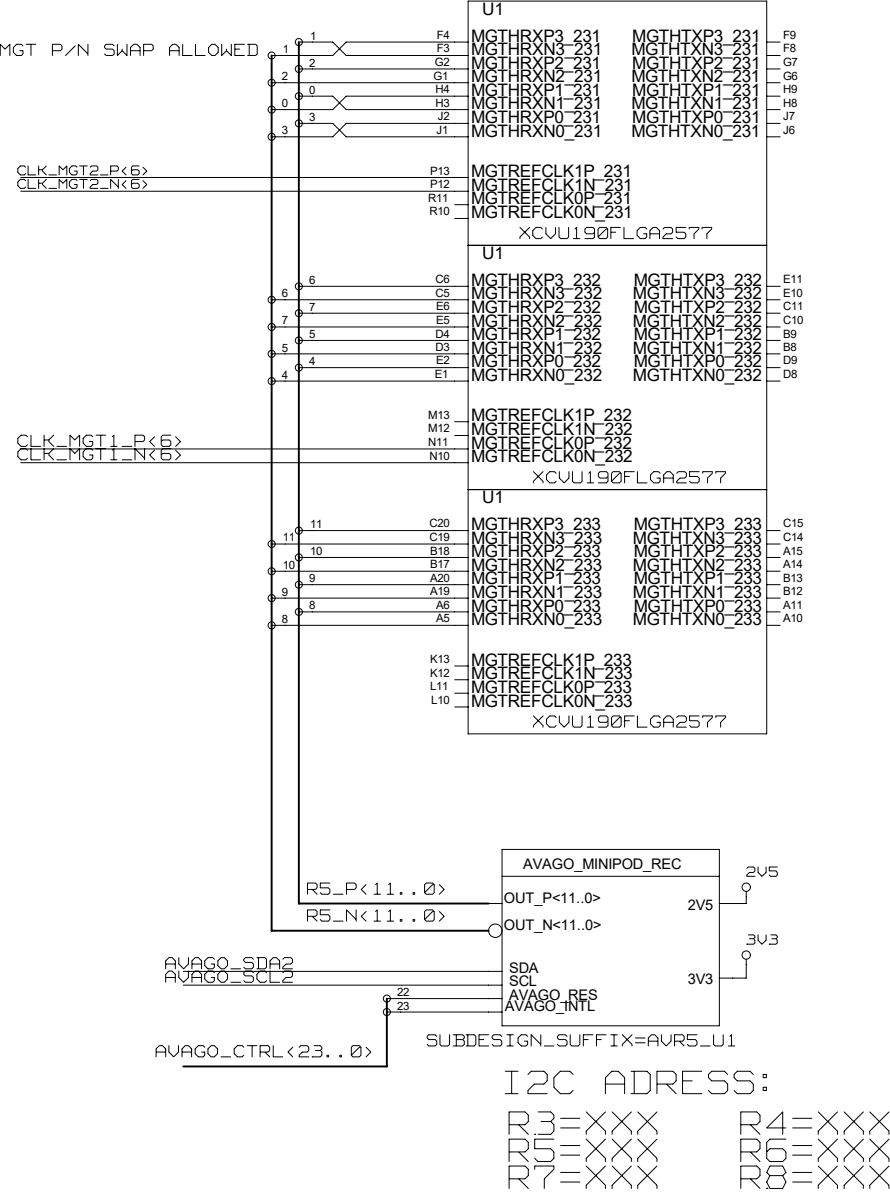
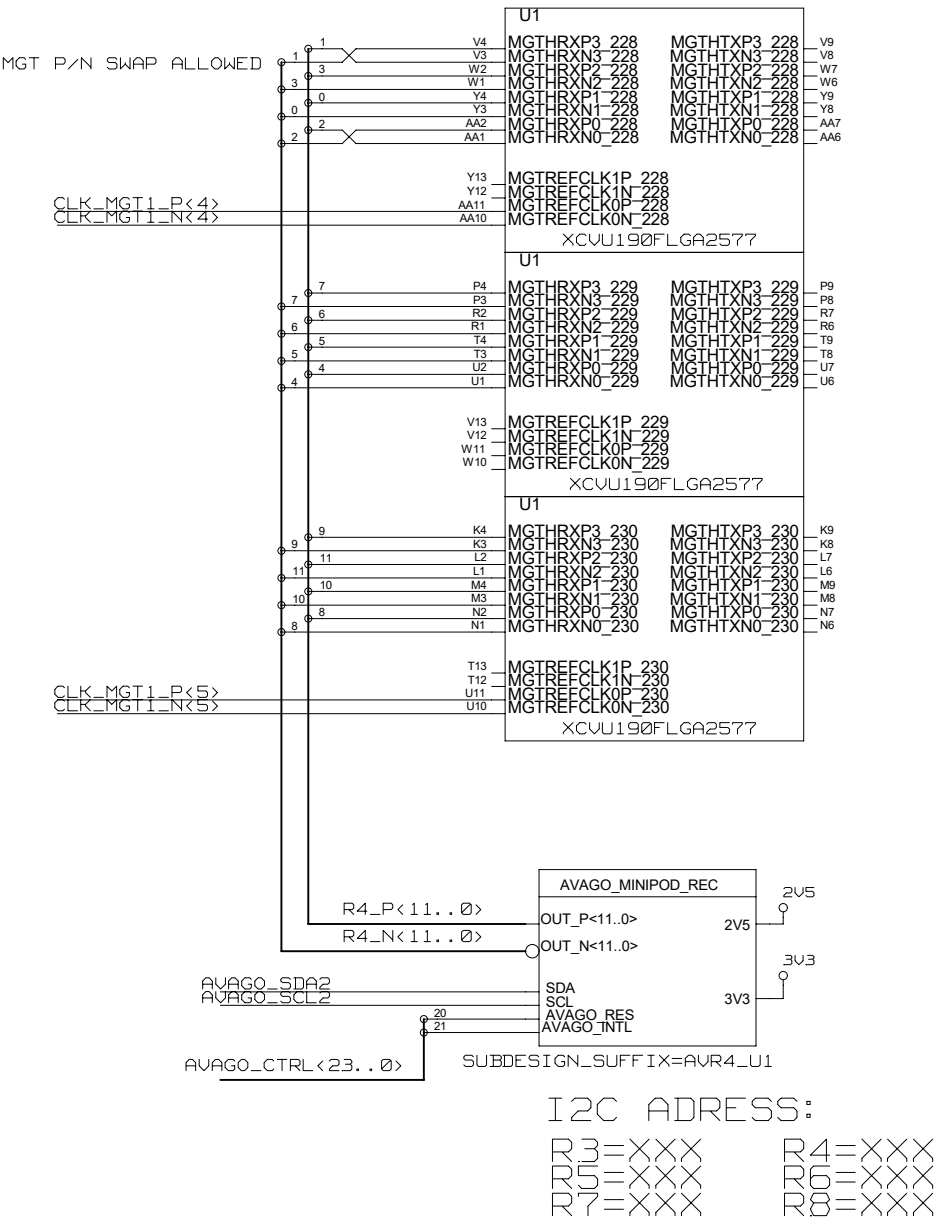
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



NAME	DATE	SIGN	DRAWING TITLE	
CHECKED	J. V. DE SOUZA		TOPO_L2	
CHECKED	U. SCHAEFER			
CHECKED	S. RAVE			
DRAWN	BAUSS	07.08.2015		
BLOCK TITLE			U1_MGT_REAL_TIME	
UNIVERSITY OF MAINZ			SIZE C	REV.
			SCALE	DRAWING NO.
			SHEET 3 OF 6	



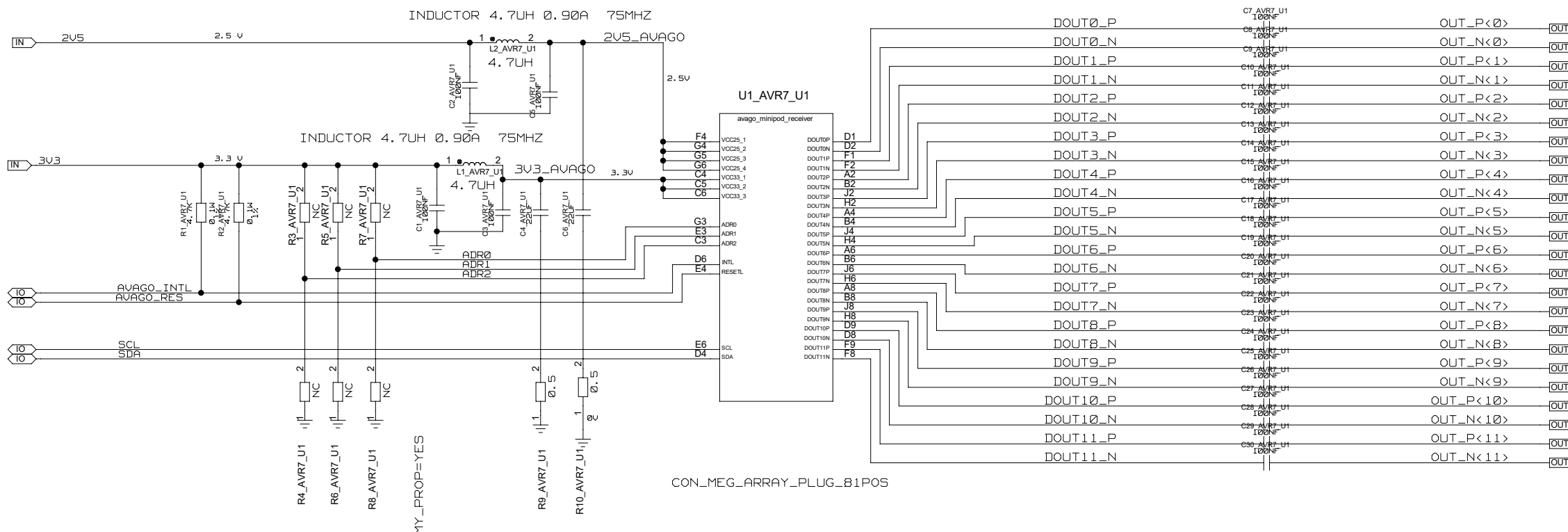
HIGH SPEED OPTICAL LINKS



BANK
228
229
230
231
232
233
234
235

CHECKED	NAME	DATE	SIGN	DRAWING TITLE		
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CHECKED	U.SCHAEFER					
CHECKED	S.RAVE					
DRAWN	BAUSS	07.08.2015				
BLOCK TITLE				DRAWING NO.		
U1_MGT_REAL_TIME						
UNIVERSITY OF MAINZ				SIZE	REV.	DRAWING NO.
				C		
SCALE				SHEET 6 OF 6		

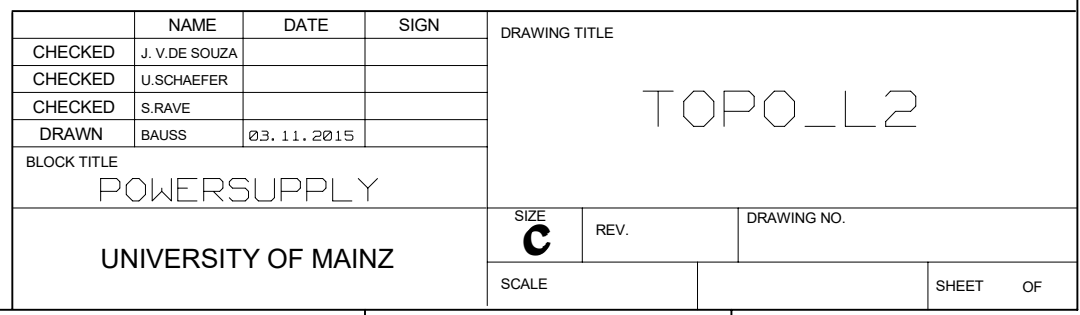
AVAGO RECEIVER



REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

UNIVERSITY OF MAINZ		DRAWING TITLE		
		TOPO_L2		
		SIZE C	REV.	DRAWING NO.
SCALE		SHEET		OF

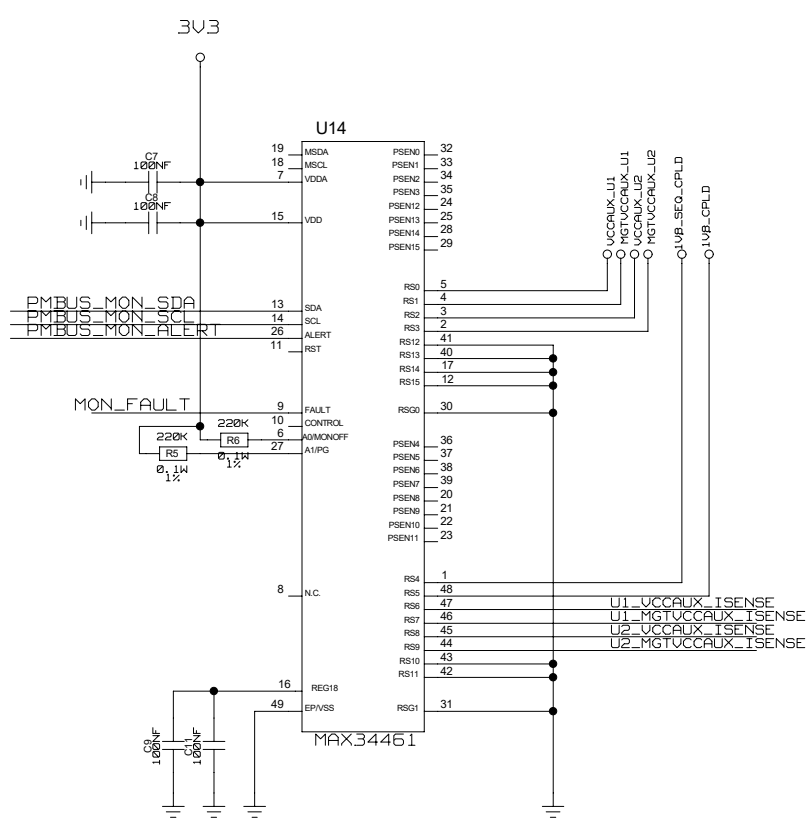
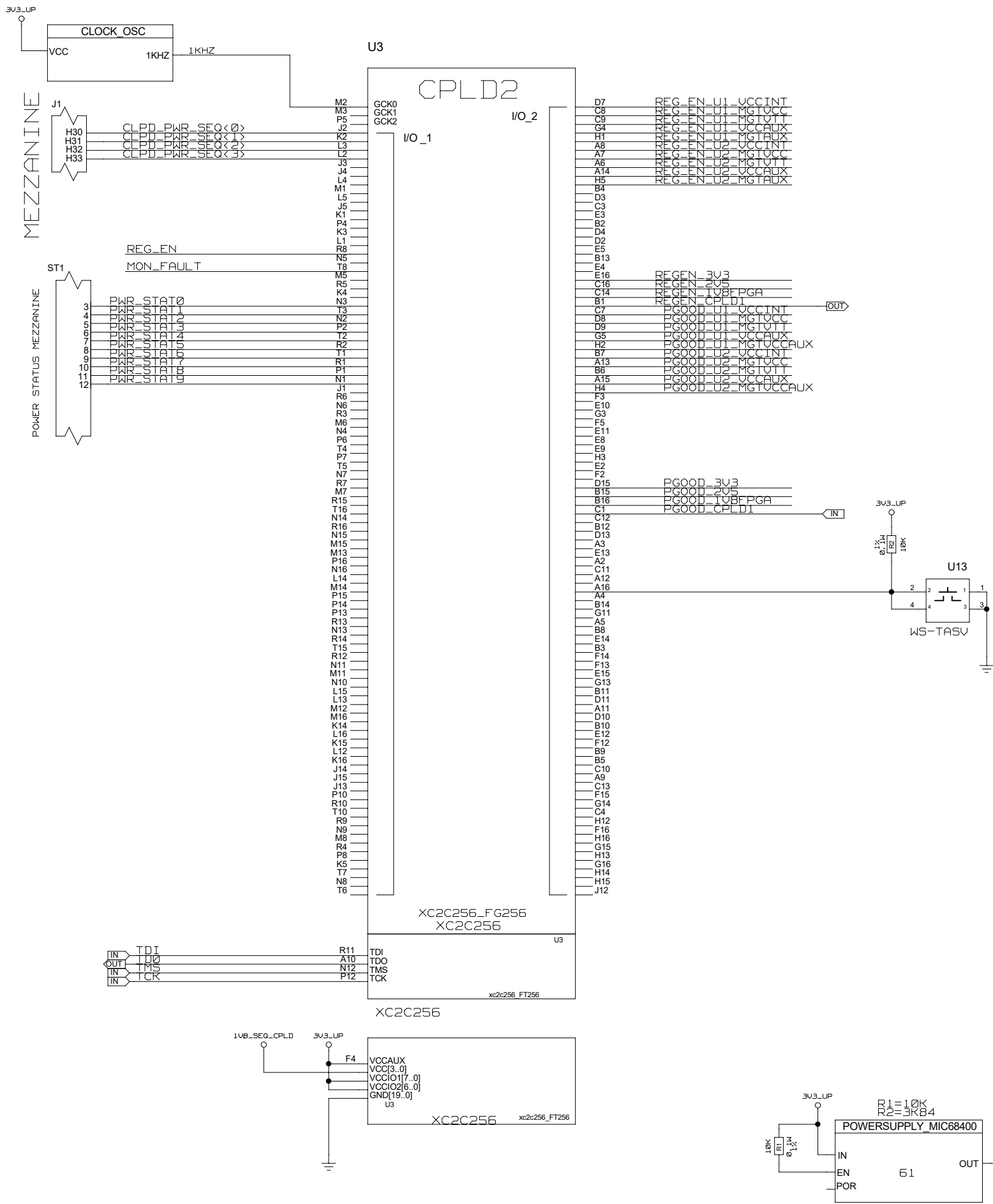
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



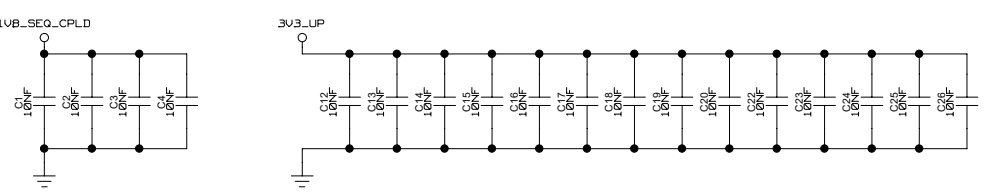
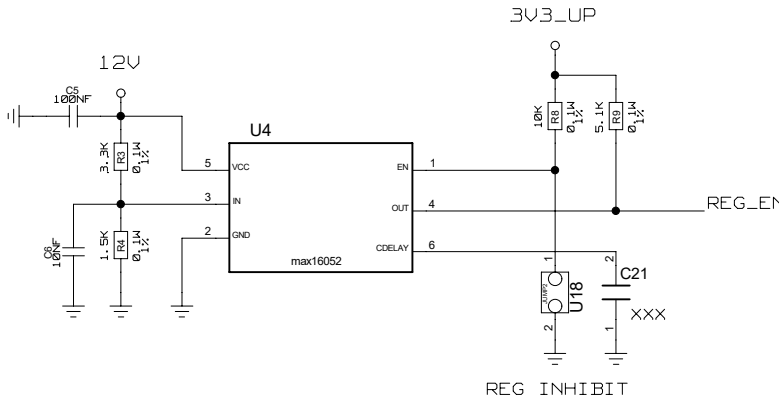
REVISIONS			
ZONE	LTR	DESCRIPTION	DATE

POWERSEQUENCING

VOLTAGE MONITORING

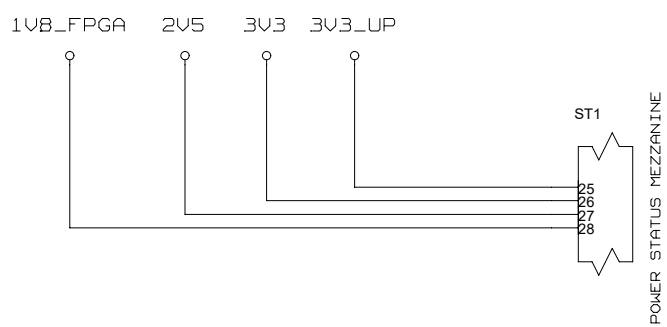
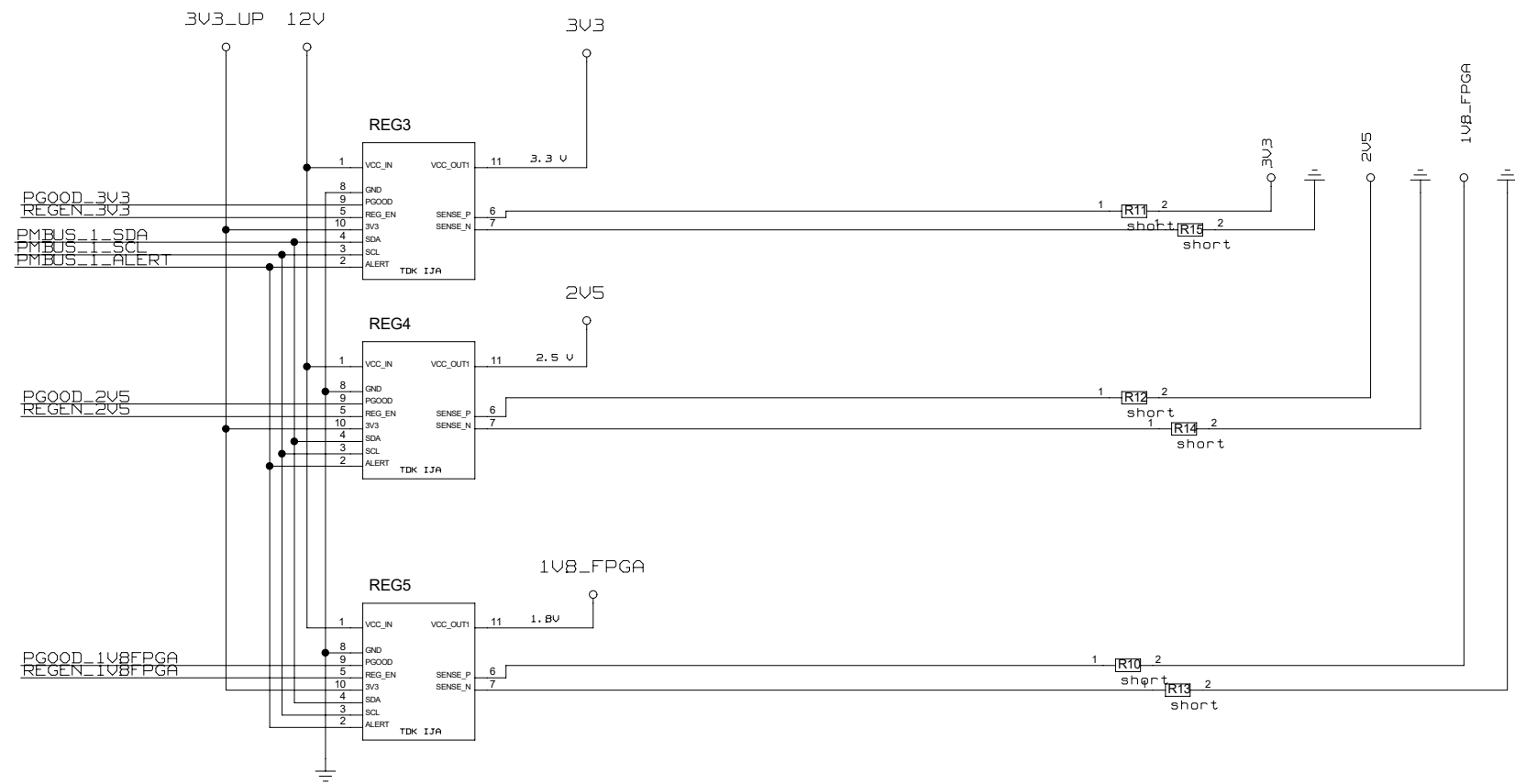


12V SUPERVISORY



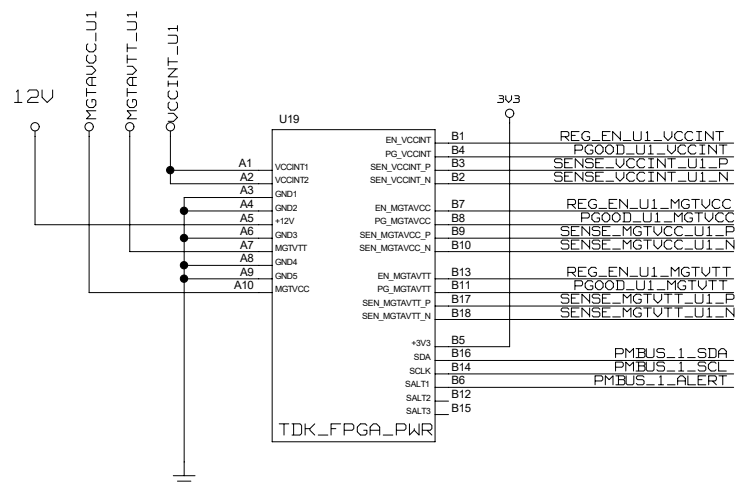
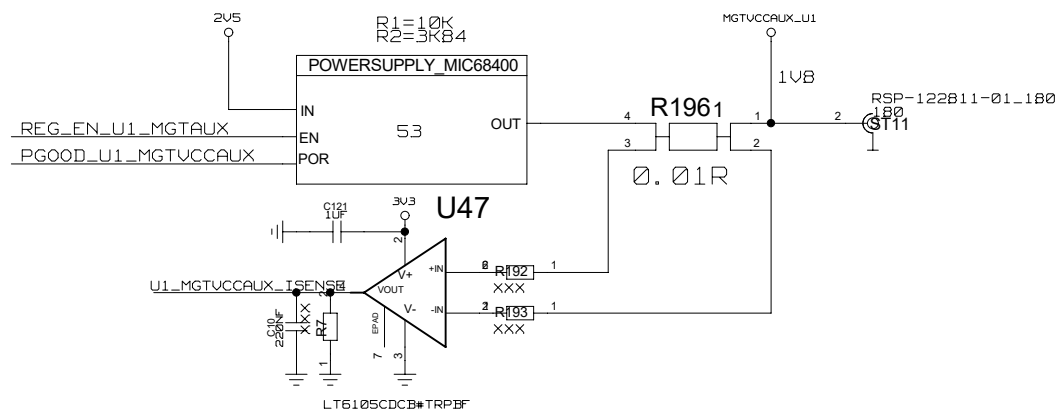
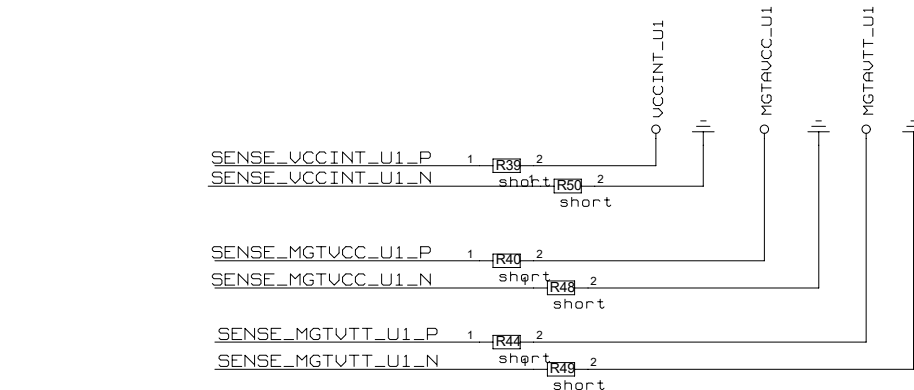
NAME	DATE	SIGN	DRAWING TITLE	
CHECKED	J. V. DE SOUZA		TOPOLL2	
CHECKED	U. SCHAEFER			
CHECKED	S. RAVE			
DRAWN	BAUSS			
BLOCK TITLE			POWERSUPPLY	
			UNIVERSITY OF MAINZ	
SIZE		REV.	DRAWING NO.	
SCALE			SHEET OF	

BOARDLEVEL 1V8, 2V5, 3V3



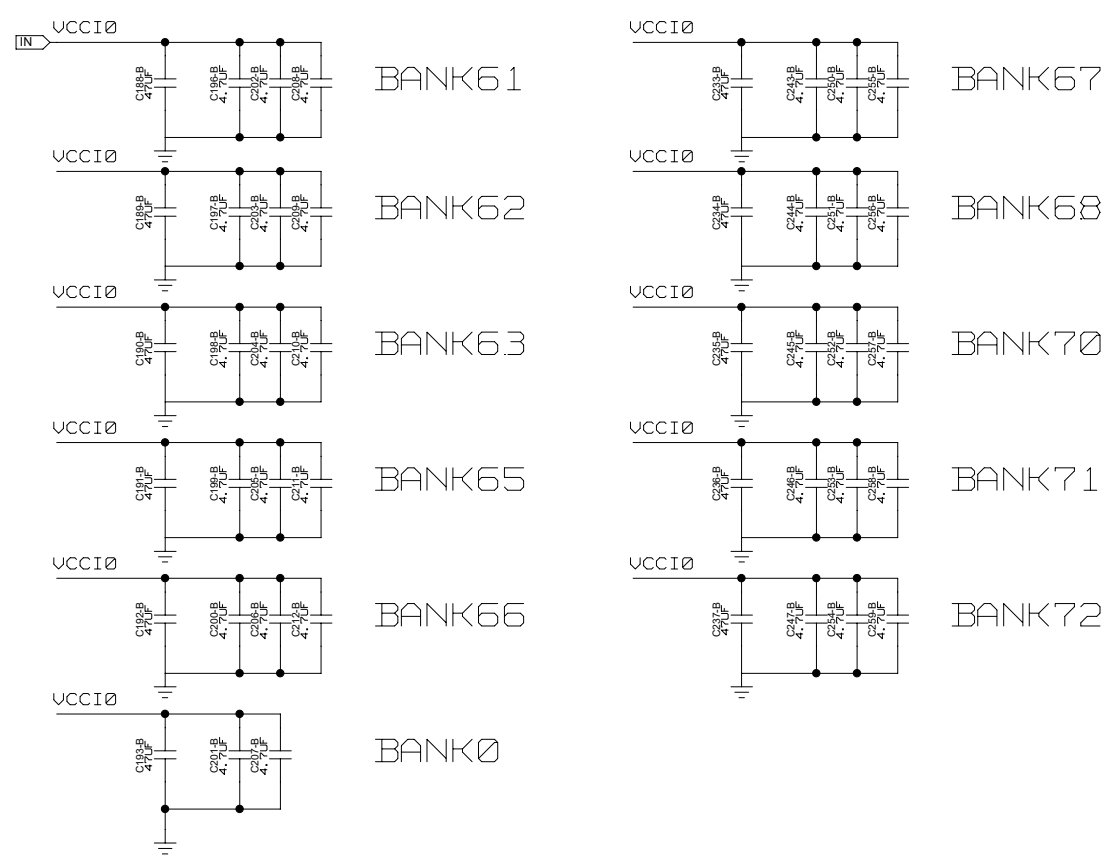
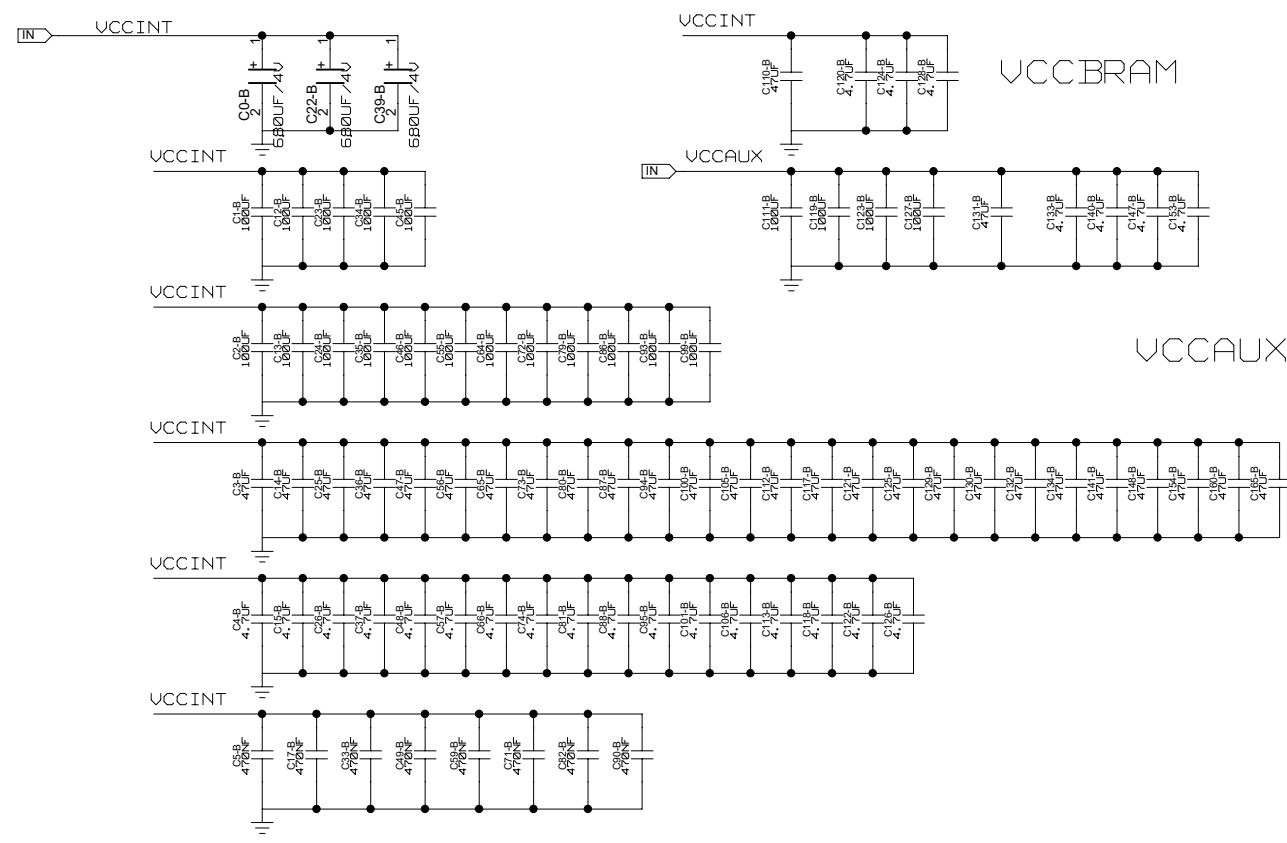
REVISIONS				DATE		APPR.	
ZONE	LTR	DESCRIPTION					

CHECKED	NAME	DATE	SIGN	DRAWING TITLE			
CHECKED	J. V. DE SOUZA			TOPOLL2			
CHECKED	U. SCHAEFER						
CHECKED	S. RAVE						
DRAWN	BAUSS						
BLOCK TITLE				POWERSUPPLY			
UNIVERSITY OF MAINZ				SIZE	REV.	DRAWING NO.	
				C			
				SCALE			SHEET OF

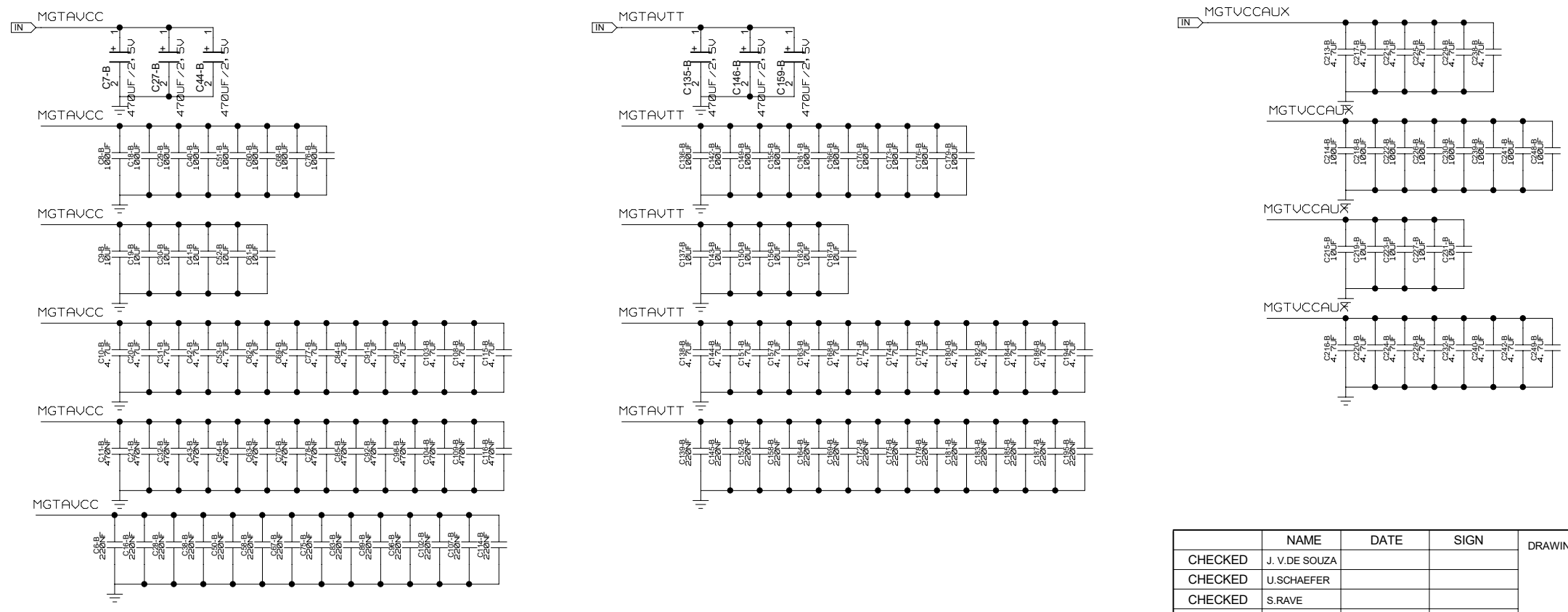


	NAME	DATE	SIGN	DRAWING TITLE TOPO_L2		
CHECKED	J. V.DE SOUZA					
CHECKED	U.SCHAEFER					
CHECKED	S.RAVE					
DRAWN	BAUSS					
BLOCK TITLE POWERSUPPLY						
UNIVERSITY OF MAINZ				SIZE C	REV.	DRAWING NO.
				SCALE		

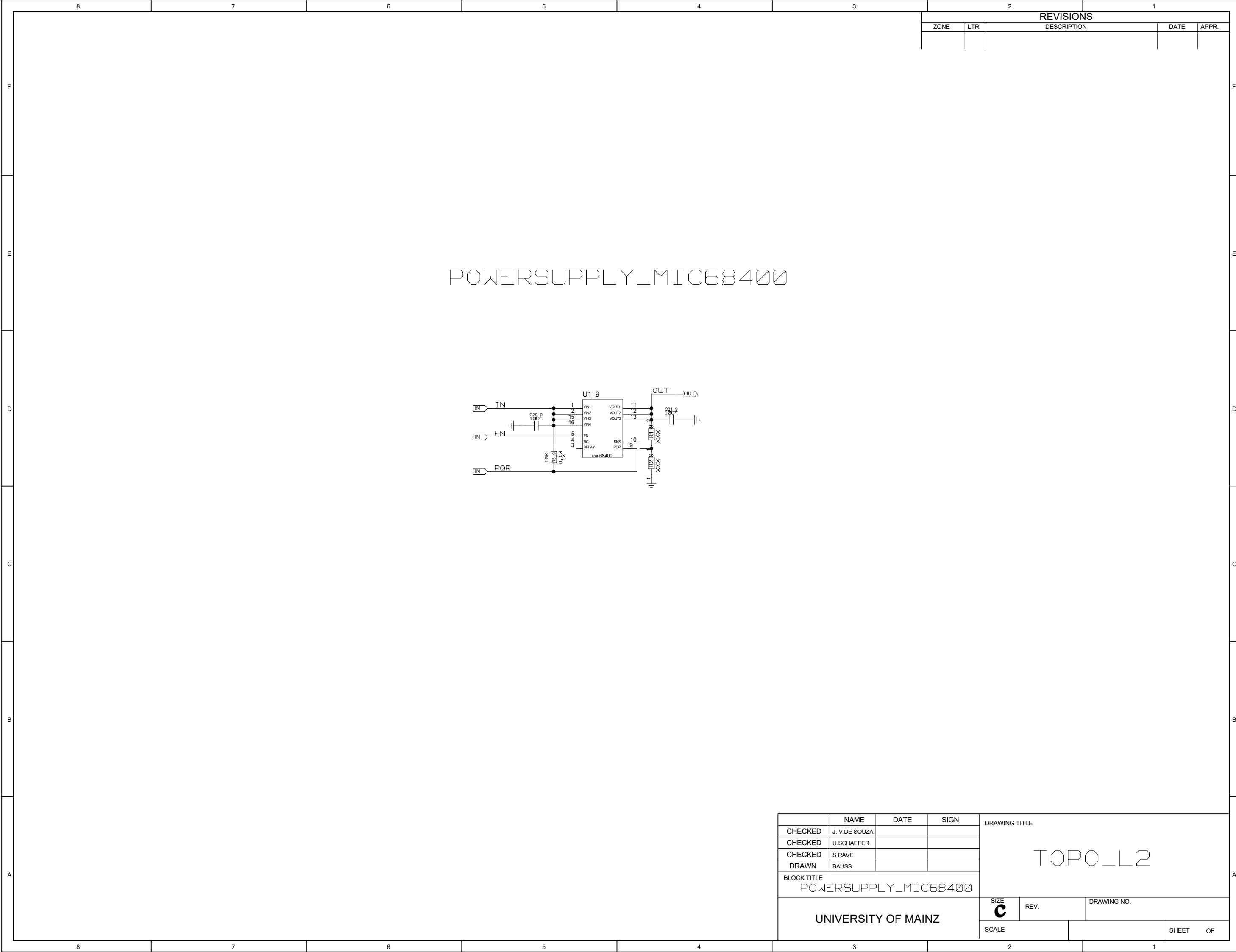
VCCINT VCCAUX VCCIO DECOUPLING



MGT DECOUPLING

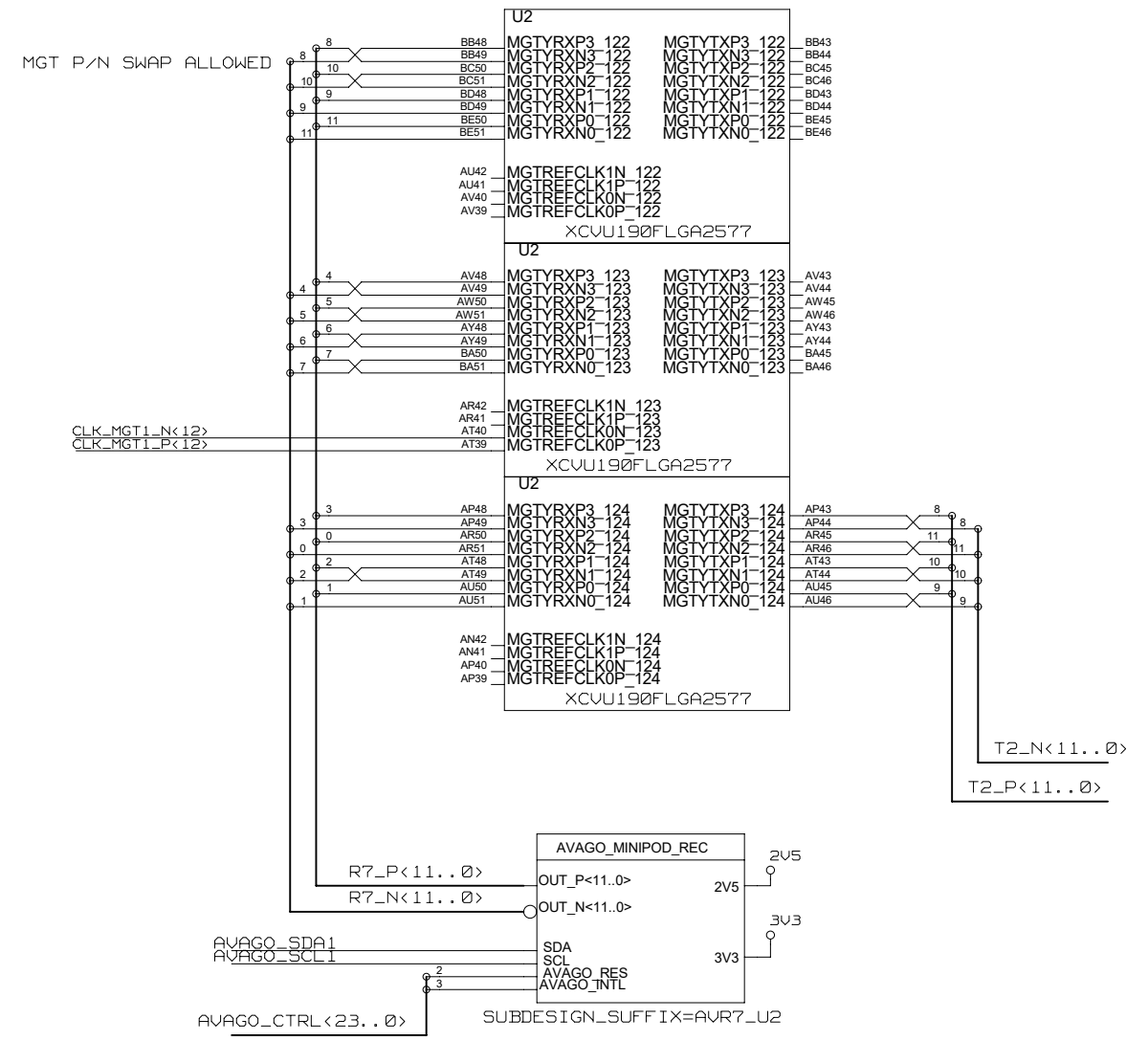


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CHECKED	U.SCHAEFER												
CHECKED	S.RAVE												
DRAWN	BAUSS												
BLOCK TITLE							DRAWING NO.						
FPGA_DECOUPLING													
UNIVERSITY OF MAINZ							SIZE	REV.		DRAWING NO.			
							C						
							SCALE				SHEET		OF



	NAME	DATE	SIGN	DRAWING TITLE TOPO_LL2	
CHECKED	J. V. DE SOUZA				
CHECKED	U. SCHAEFER				
CHECKED	S. RAVE				
DRAWN	BAUSS			BLOCK TITLE POWER_SUPPLY_MIC68400	
UNIVERSITY OF MAINZ				SIZE C	DRAWING NO.
				SCALE	SHEET OF

	2		1	
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.



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R3=XXX
R5=XXX
R7=XXX

R4=XXX
R6=XXX
R8=XXX
```

```
R3=XXX
R5=XXX
R7=XXX

R4=XXX
R6=XXX
R8=XXX
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BANK		
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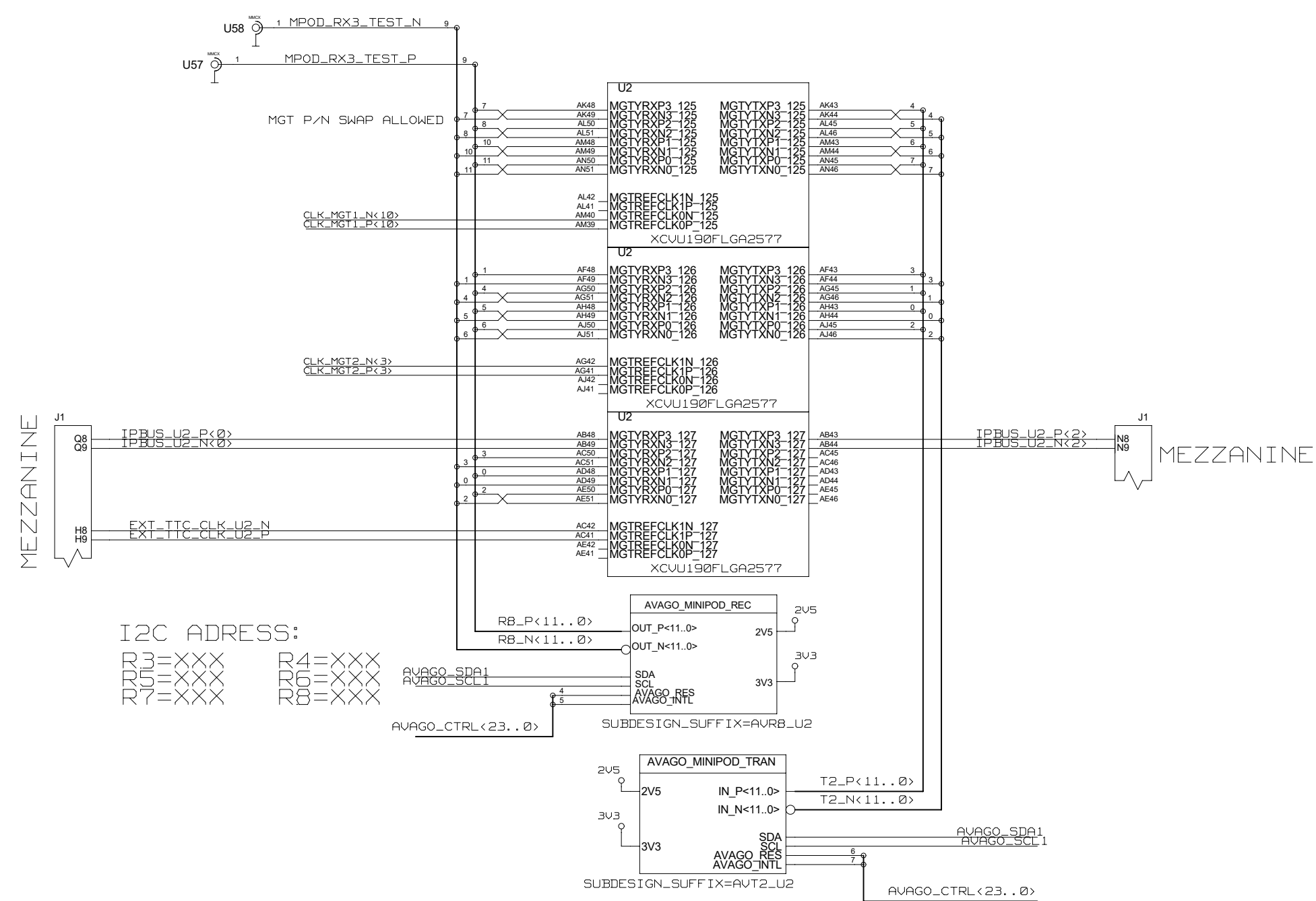
				DRAWING TITLE
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CHECKED	U.SCHAEFER			
CHECKED	S.RAVE			
DRAWN	BAUSS	Ø7. ØB. 2015		
BLOCK TITLE U2_MGT_REAL_TIME				
UNIVERSITY OF MAINZ				SIZE C
				REV.
				DRAWING NO.
SCALE				SHEET 1 OF 6

TOPO_L2

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

HIGH SPEED OPTICAL LINKS

HIGH SPEED IPBUS



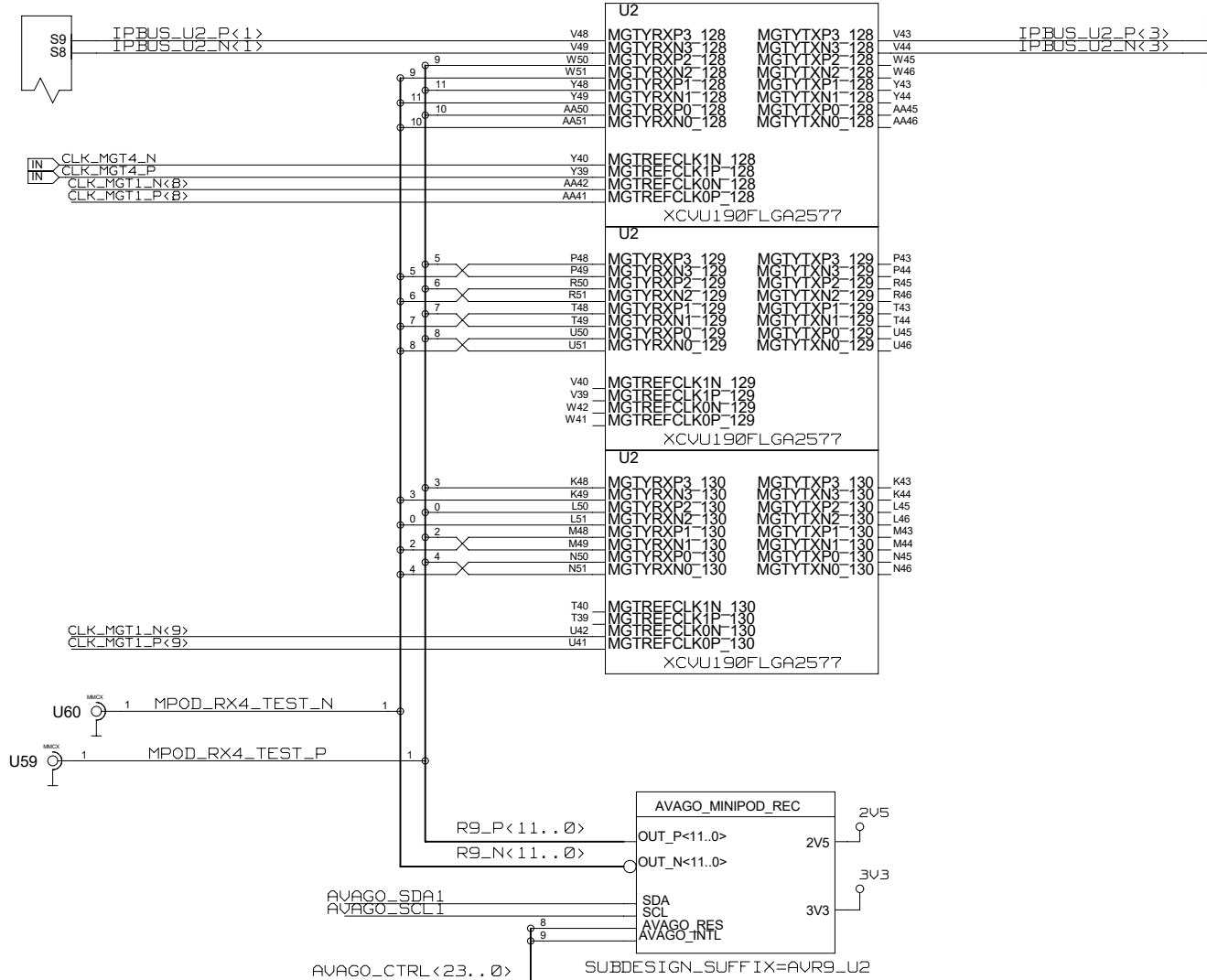
BANK
125
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127

CHECKED	NAME	DATE	SIGN	DRAWING TITLE	
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CHECKED	U. SCHAEFER				
CHECKED	S. RAVE				
DRAWN	BAUSS	07.08.2015			
BLOCK TITLE				U2_MGT_REAL_TIME	
UNIVERSITY OF MAINZ				SIZE	DRAWING NO.
				SCALE	
				SHEET 2 OF 6	

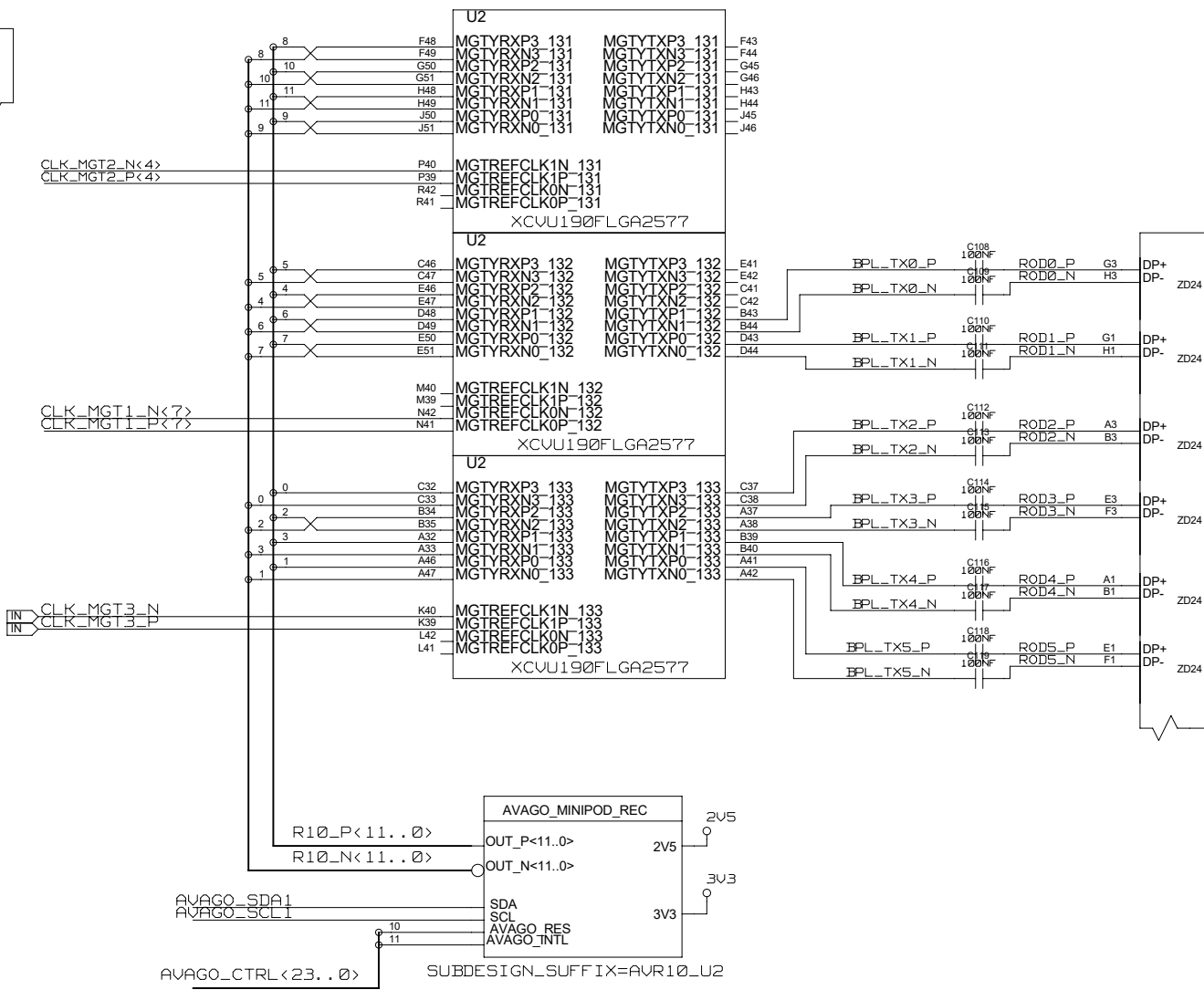
HIGH SPEED OPTICAL LINKS

MEZZANINE

MGT P/N SWAP ALLOWED



MGT P/N SWAP ALLOWED



I2C ADDRESS:

R3=XXX R4=XXX
R5=XXX R6=XXX
R7=XXX R8=XXX

I2C ADDRESS:

R3=XXX R4=XXX
R5=XXX R6=XXX
R7=XXX R8=XXX

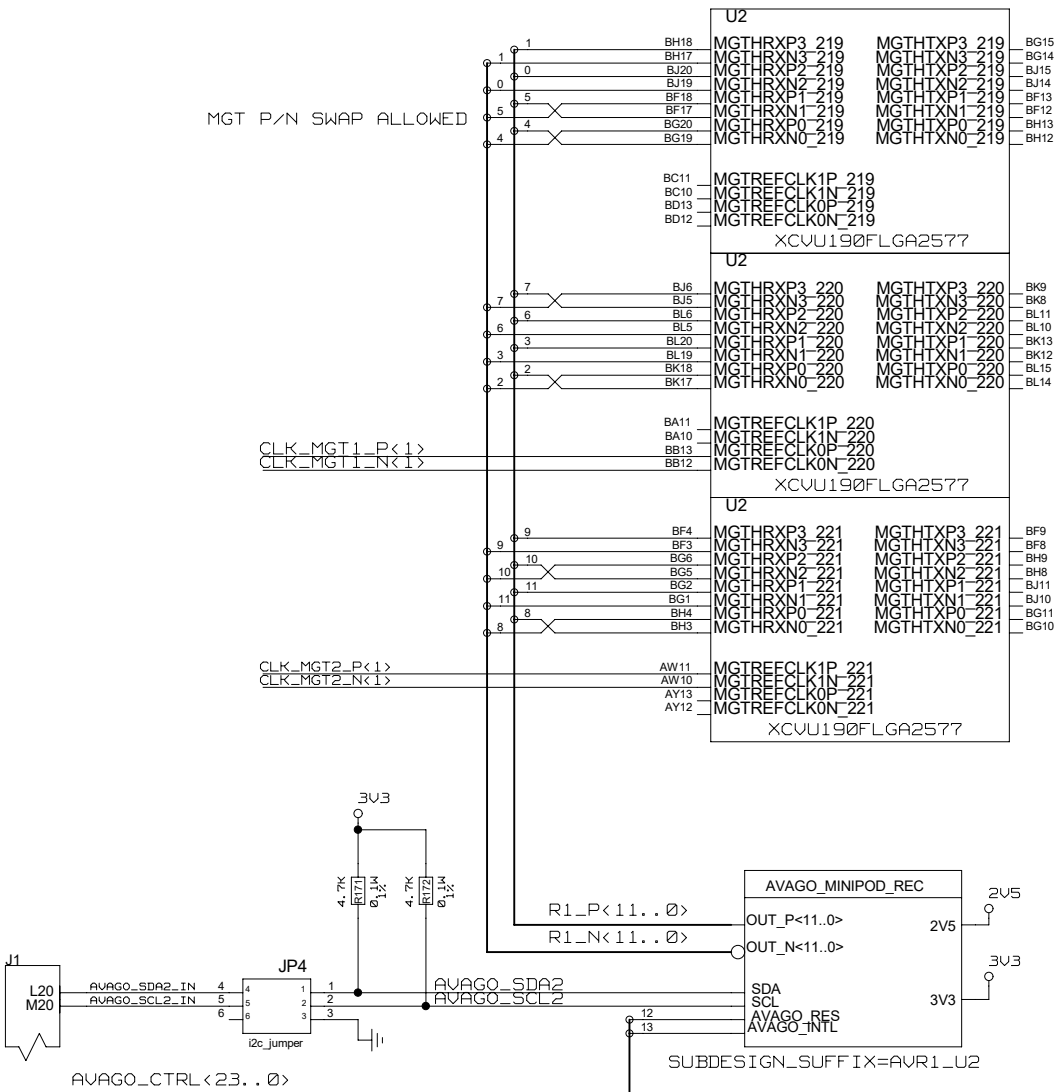
BANK
128
128
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128
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128

CHECKED	NAME	DATE	SIGN	DRAWING TITLE		
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CHECKED	U. SCHAEFER					
CHECKED	S. RAVE					
DRAWN	BAUSS	07.08.2015				
BLOCK TITLE				U2_MGT_REAL_TIME		
UNIVERSITY OF MAINZ				SIZE	REV.	DRAWING NO.
				C		
				SCALE		SHEET 3 OF 6

HIGH SPEED OPTICAL LINKS

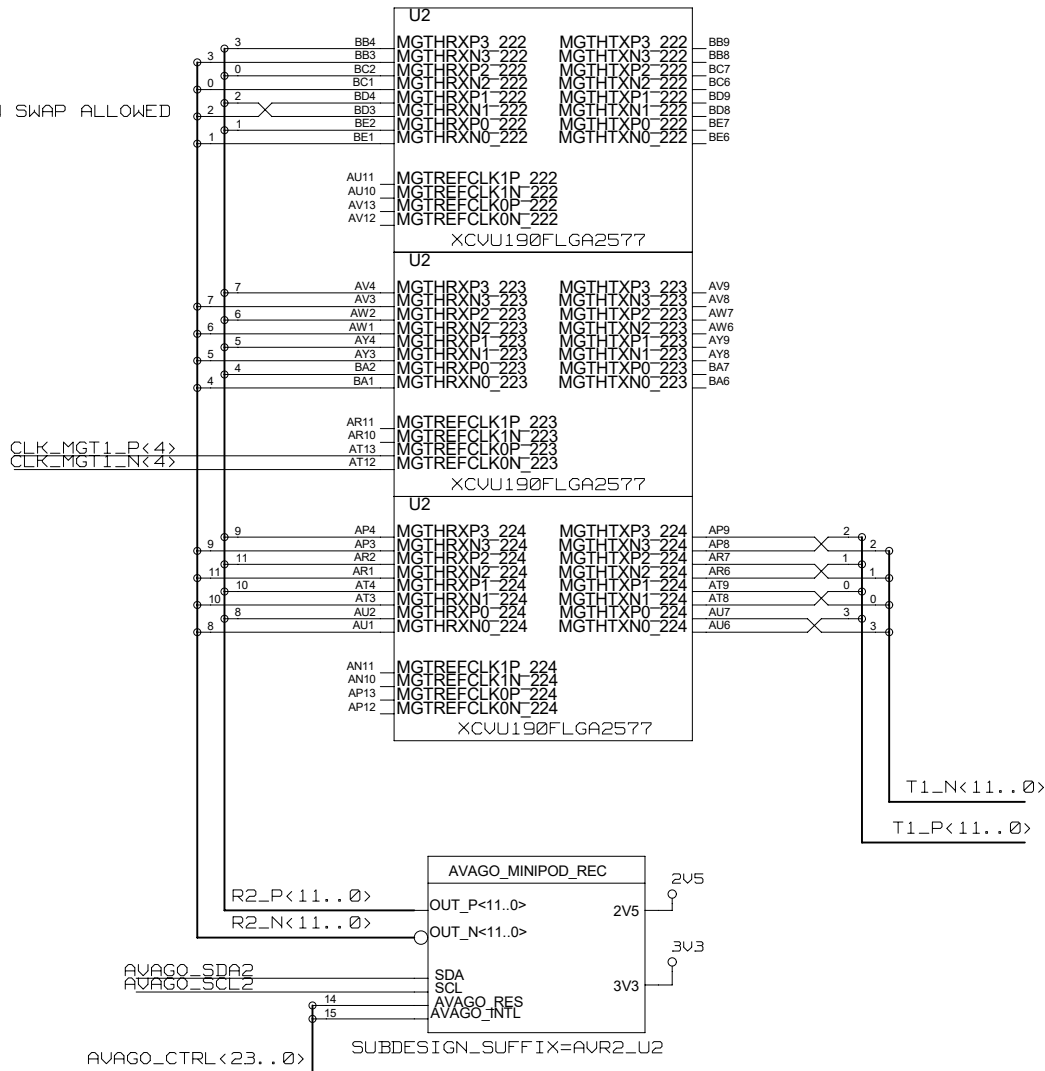
MGT P/N SWAP ALLOWED

MGT P/N SWAP ALLOWED



AVAGO_CTRL<11..0>
AVAGO_CTRL 0, 2, 4, 6, 8, 10 = AVAGO_RES_XX
AVAGO_CTRL 1, 3, 5, 7, 9, 11 = AVAGO_INTL_XX

I2C ADDRESS:
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R5=XXX R6=XXX
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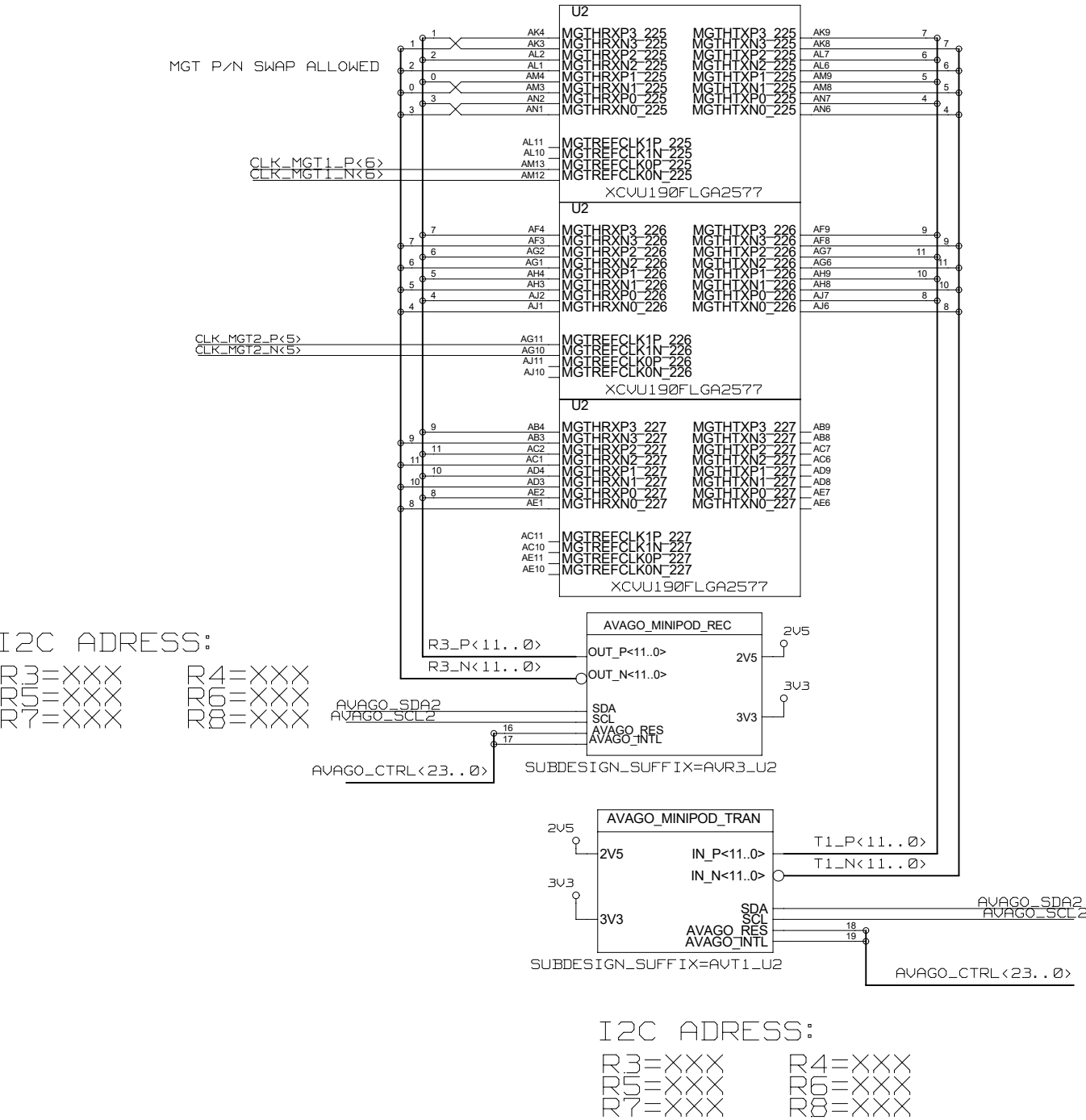


I2C ADDRESS:
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R5=XXX R6=XXX
R7=XXX R8=XXX

BANK
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221
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223
224

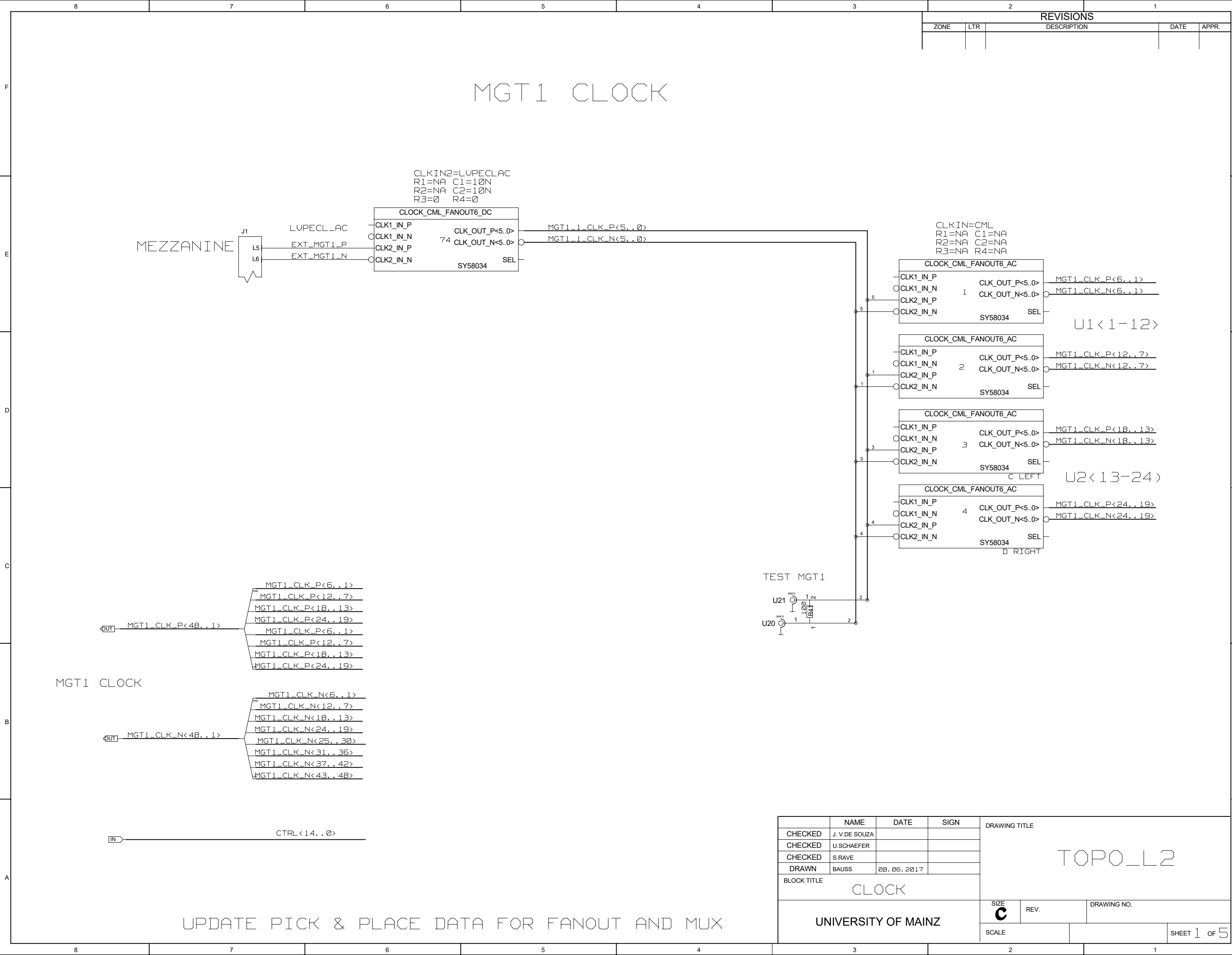
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CHECKED	J. V.DE SOUZA						
CHECKED	U.SCHAEFER						
CHECKED	S.RAVE						
DRAWN	BAUSS	07. 08. 2015					
BLOCK TITLE U2_MGT_REAL_TIME							
UNIVERSITY OF MAINZ				SIZE C	REV.	DRAWING NO.	
				SCALE		SHEET 4 OF 6	

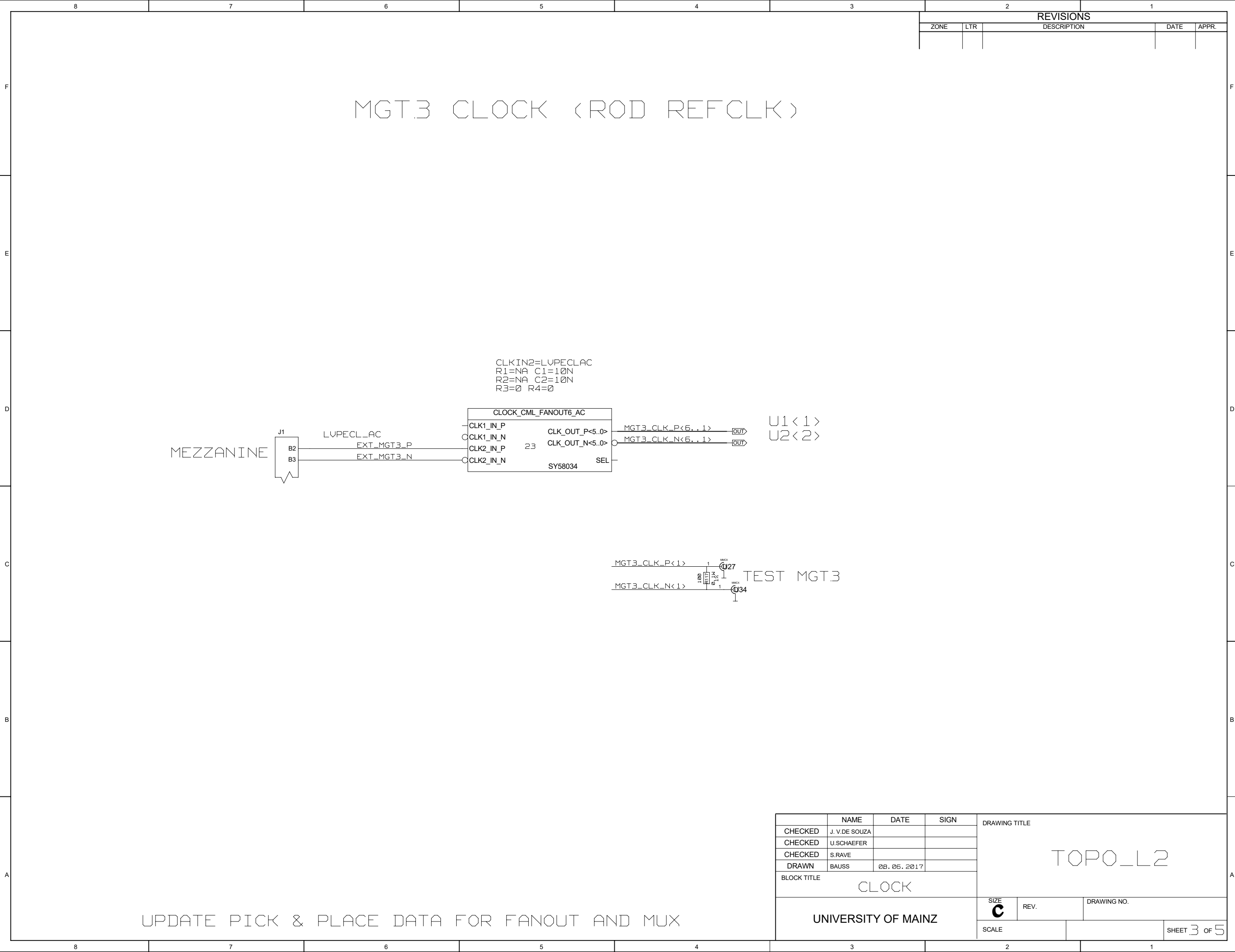
HIGH SPEED OPTICAL LINKS



REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPR.

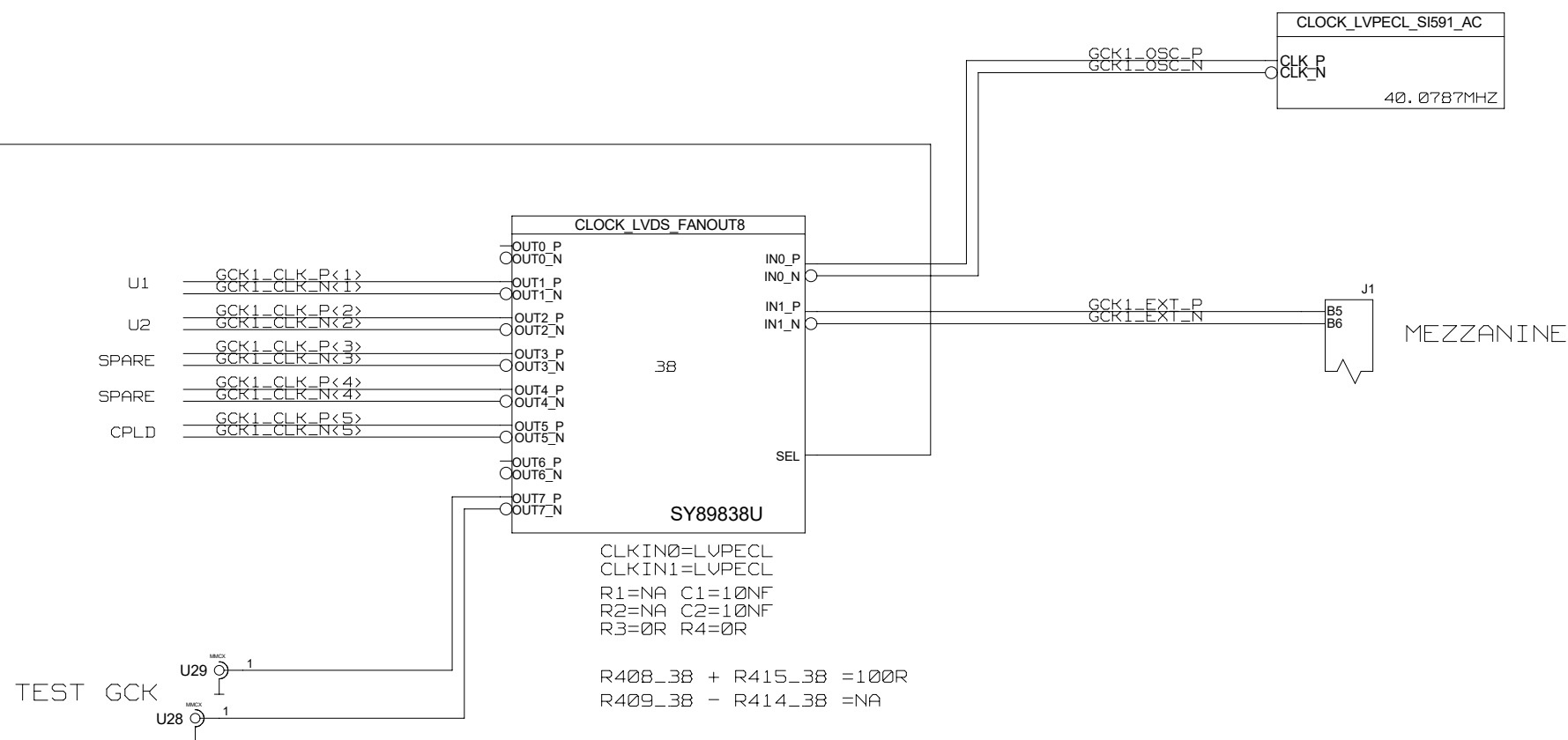
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CHECKED	U. SCHAEFER				
CHECKED	S. RAVE				
DRAWN	BAUSS	07.08.2015		BLOCK TITLE	
U2_MGT_REAL_TIME				DRAWING NO.	
UNIVERSITY OF MAINZ				SIZE C	REV.
SCALE				DRAWING NO.	
				SHEET 5 OF 6	



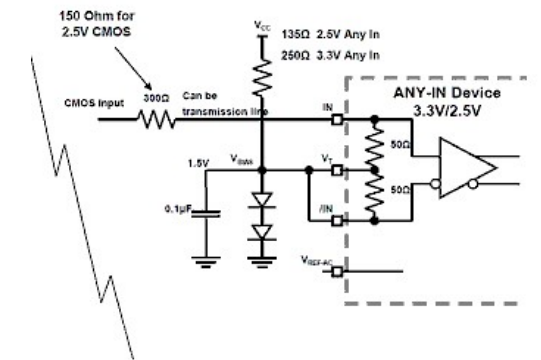


GLOBAL CLOCK1

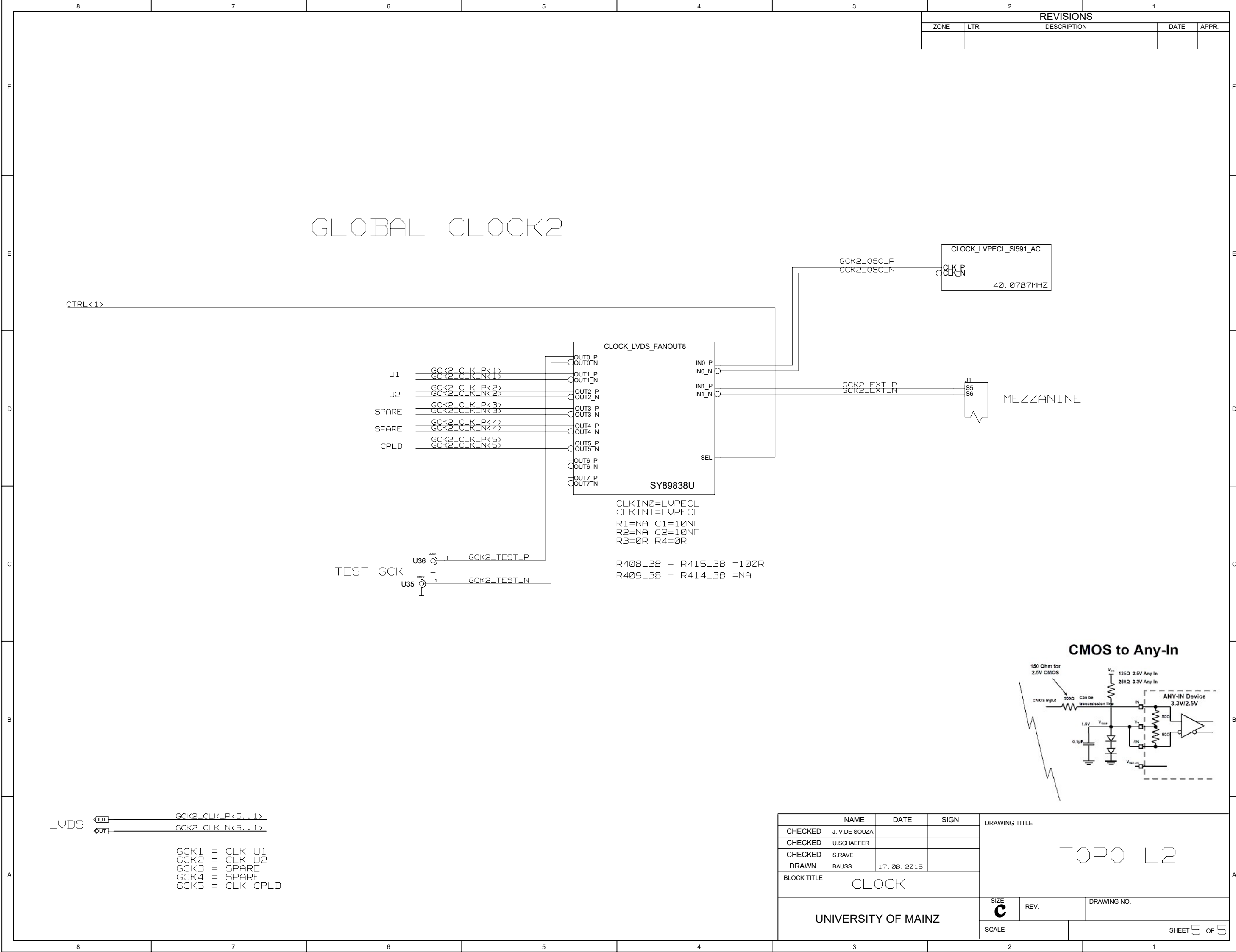
CTRL<0>



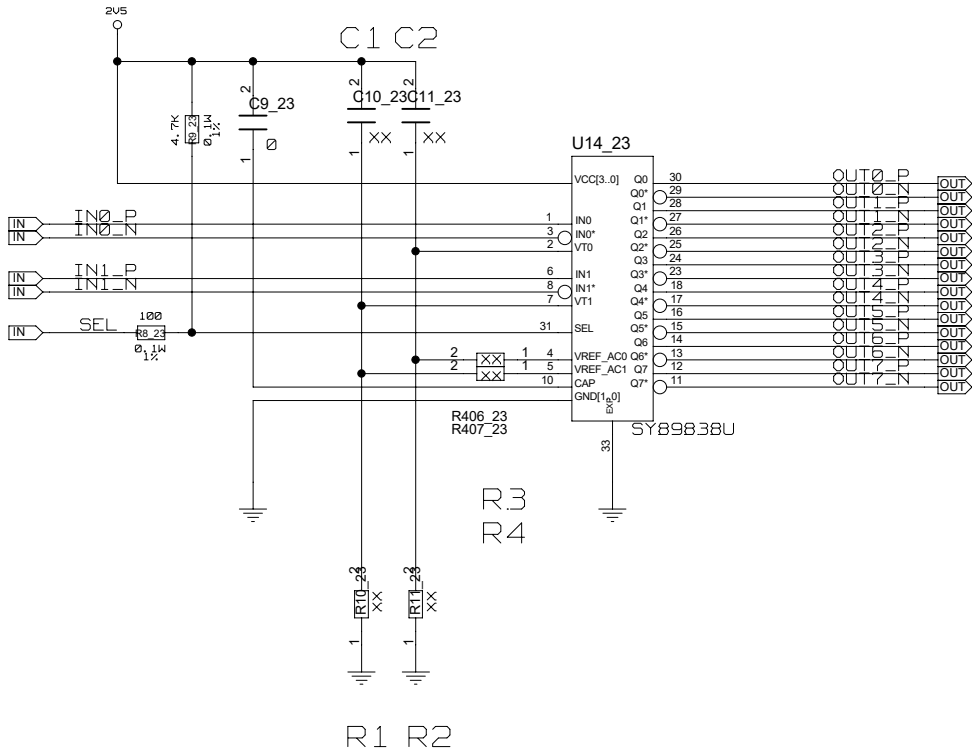
CMOS to Any-In



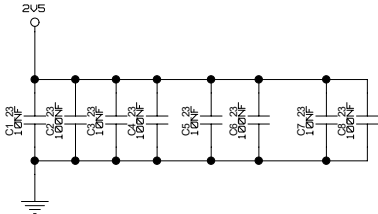
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CHECKED	U. SCHAEFER			
CHECKED	S. RAVE			
DRAWN	BAUSS	17.08.2015		
BLOCK TITLE			CLOCK	
UNIVERSITY OF MAINZ			SIZE C	REV.
			SCALE	DRAWING NO.
			SHEET 5 OF 5	



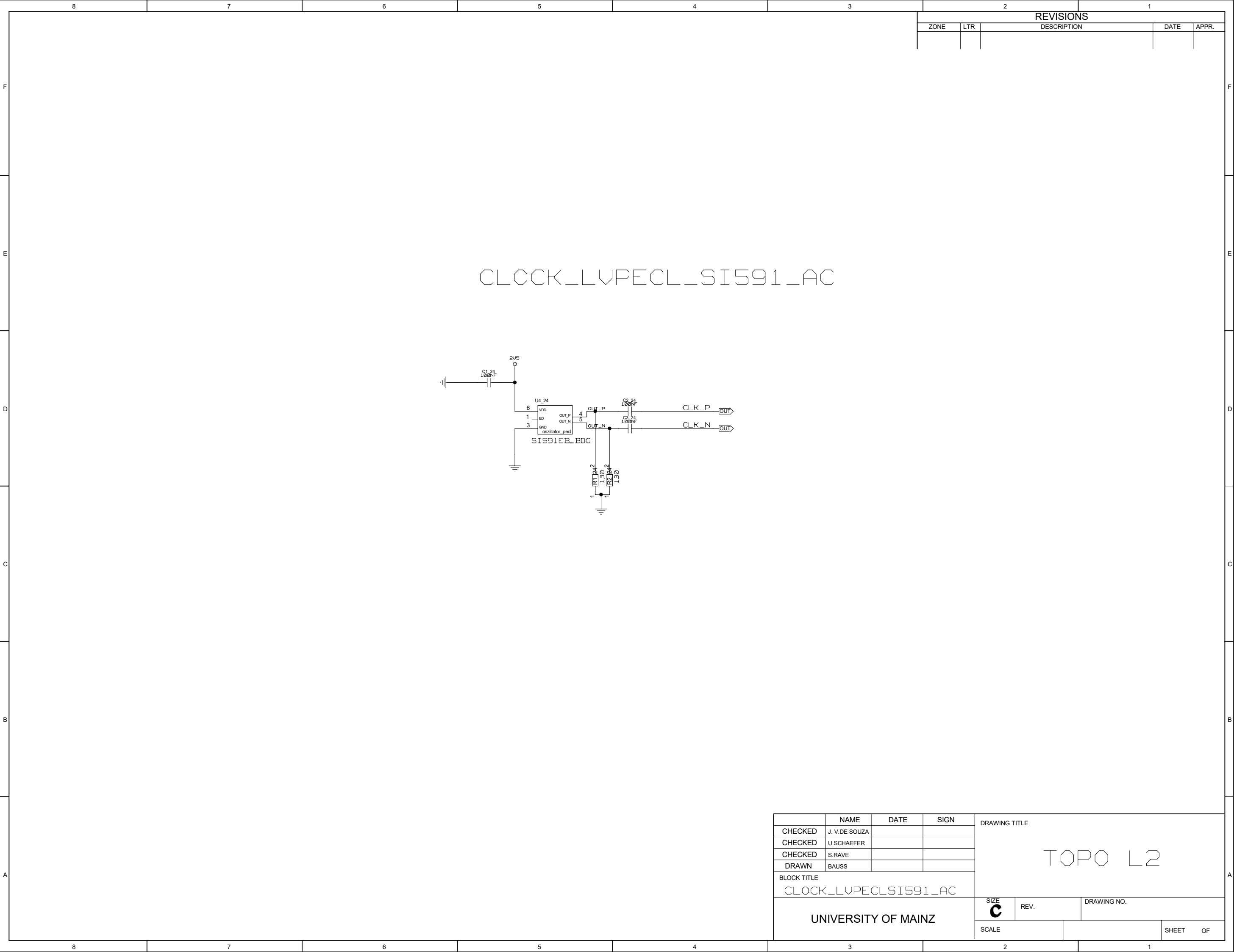
CLOCK_LVDS_FANOUT8



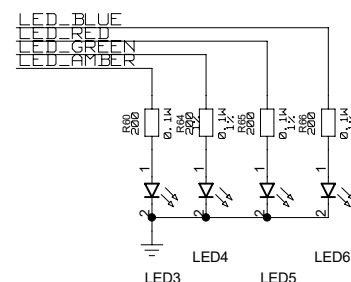
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OUT1_N	11_23
OUT2_P	NA
OUT2_N	12_23
OUT3_P	NA
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OUT4_P	NA
OUT4_N	14_23
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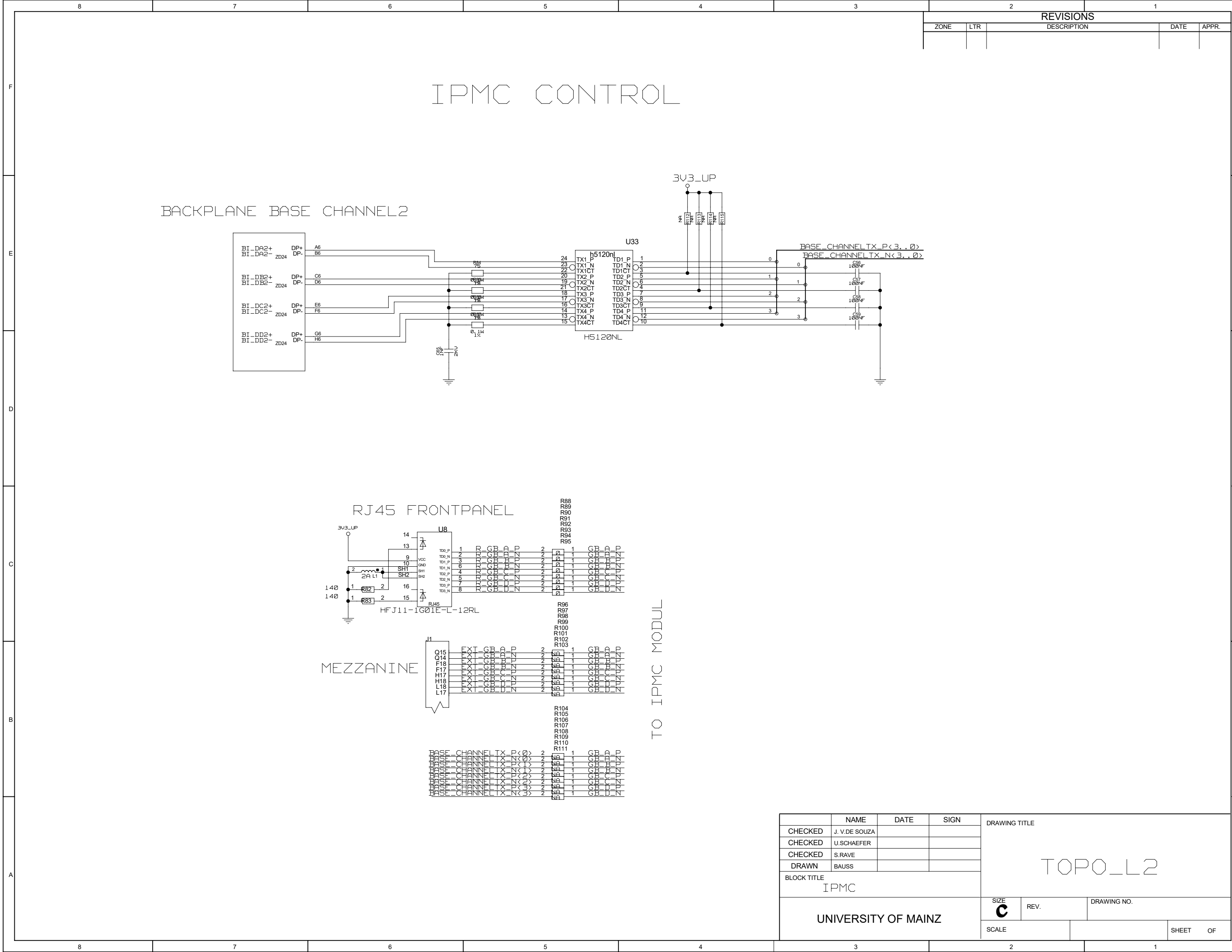
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CHECKED	U.SCHAEFER					
CHECKED	S.RAVE					
DRAWN	BAUSS					
BLOCK TITLE CLOCK_LVDS_FANOUT8				SIZE C	REV.	DRAWING NO.
UNIVERSITY OF MAINZ				SCALE		SHEET OF



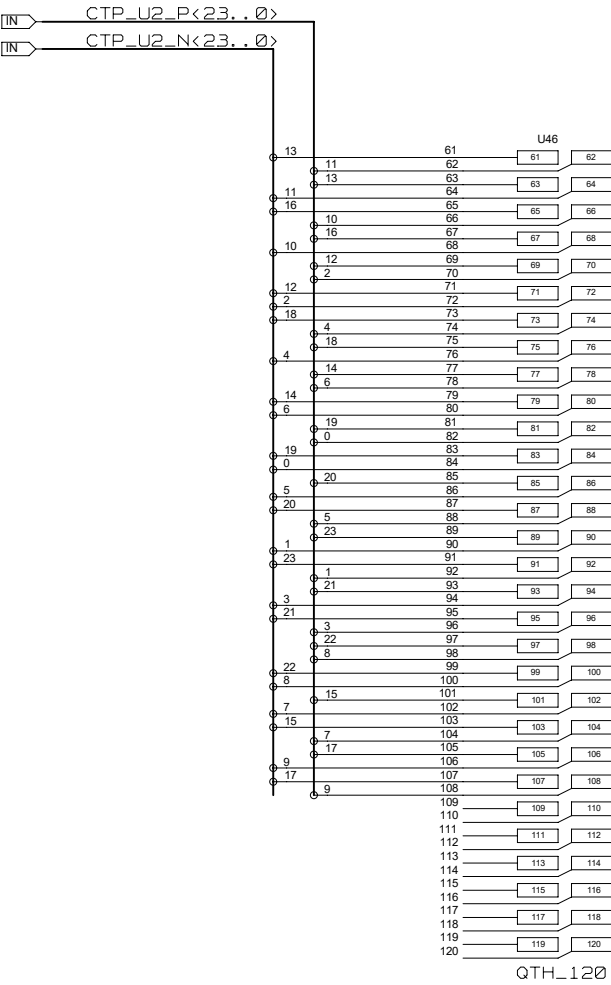
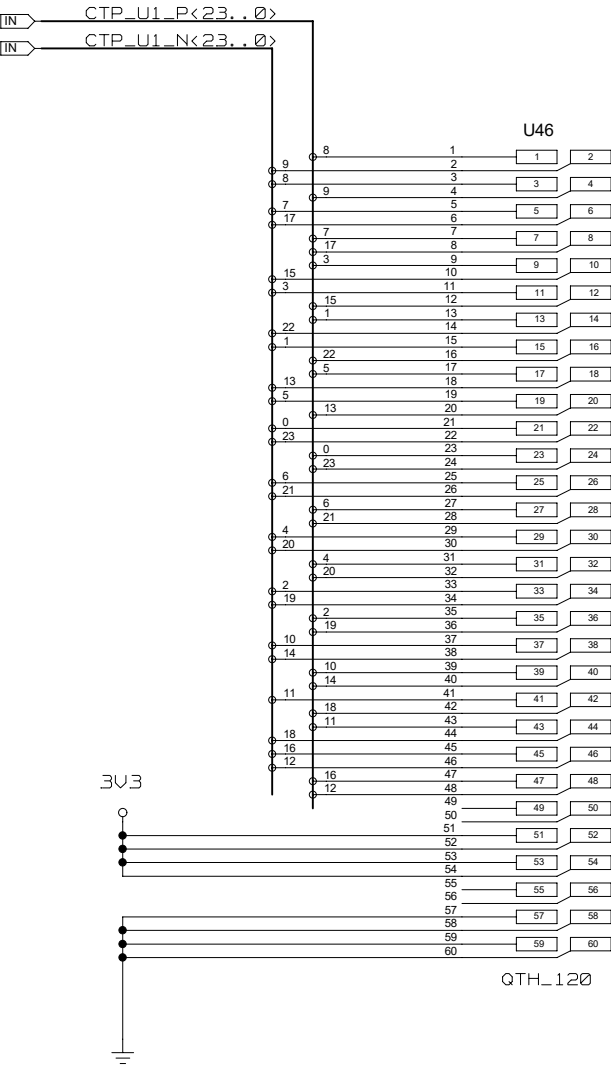
		2		1	
REVISIONS					
ZONE	LTR	DESCRIPTION		DATE	APPR.



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CHECKED	U.SCHAEFER								
CHECKED	S.RAVE								
DRAWN	BAUSS	30. 10. 2015							
BLOCK TITLE IPMC									
UNIVERSITY OF MAINZ				SIZE C	REV.	DRAWING NO.			
				SCALE				SHEET OF	



CONNECTOR CTP MEZZ



	NAME	DATE	SIGN	DRAWING TITLE TOPO_L2				
CHECKED	J. V.DE SOUZA							
CHECKED	U.SCHAEFER							
CHECKED	S.RAVE							
DRAWN	BAUSS							
BLOCK TITLE CTP_MEZZ								
UNIVERSITY OF MAINZ				SIZE C	REV.	DRAWING NO.		
				SCALE			SHEET	OF