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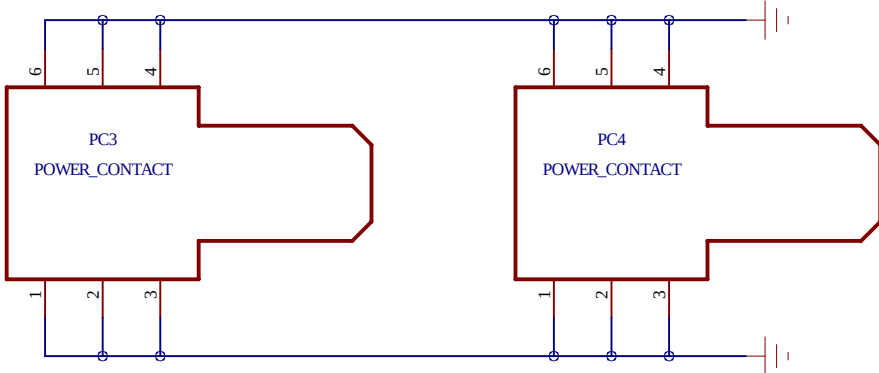
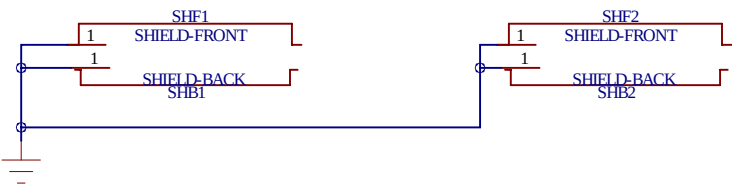
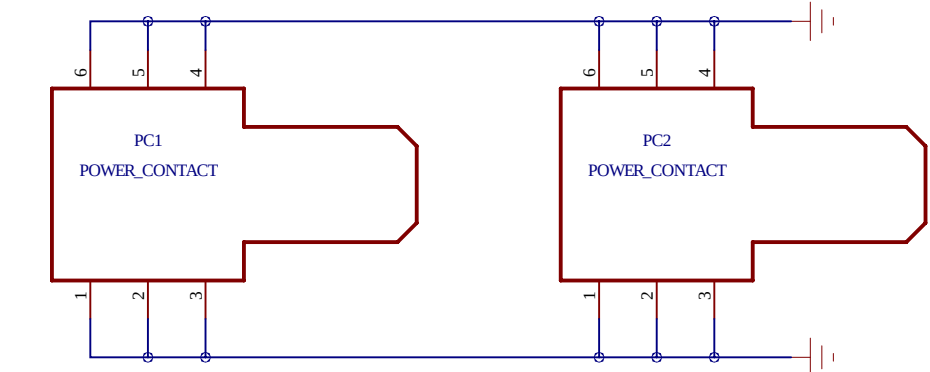
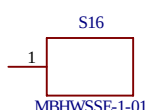
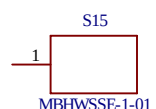
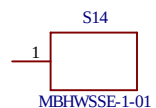
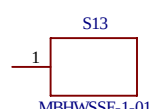
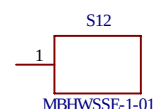
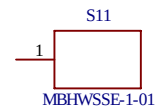
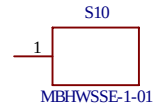
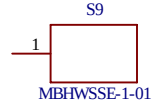
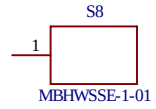
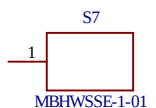
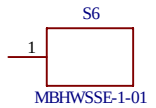
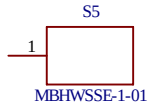
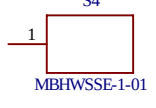
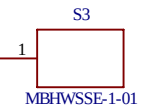
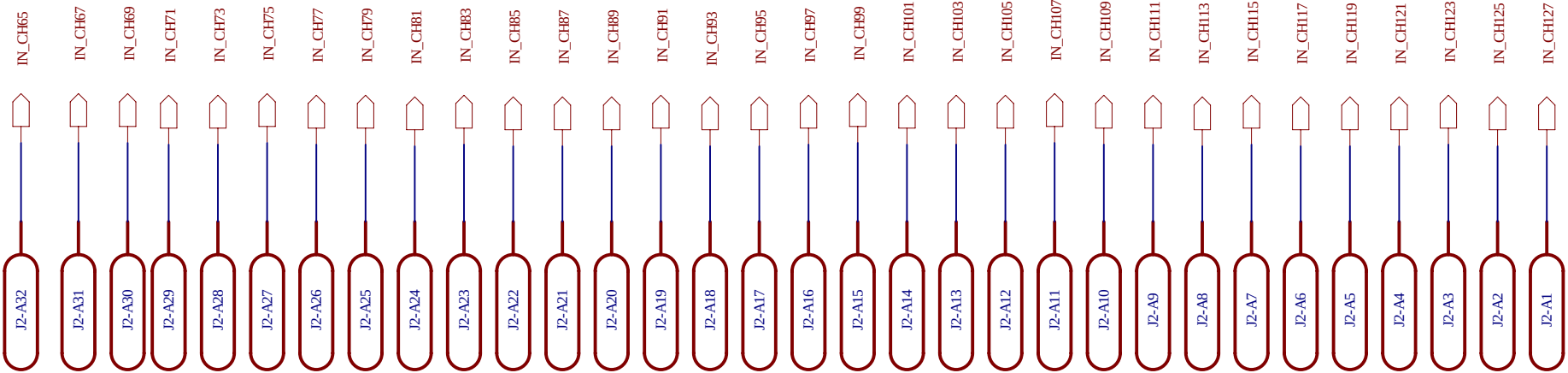
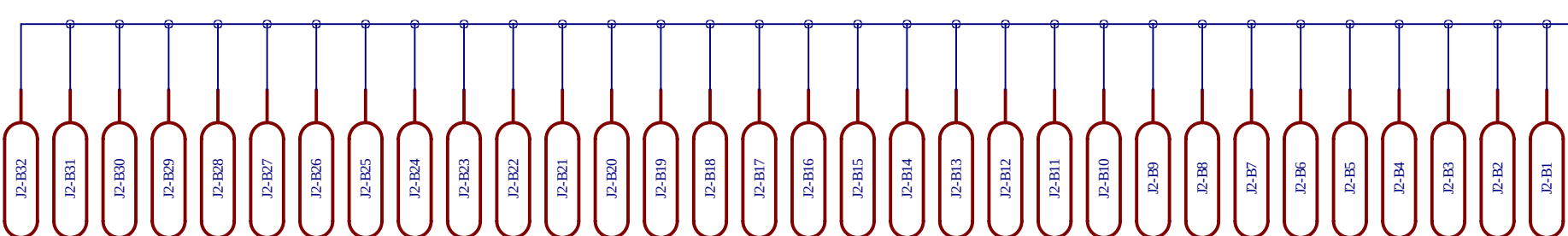
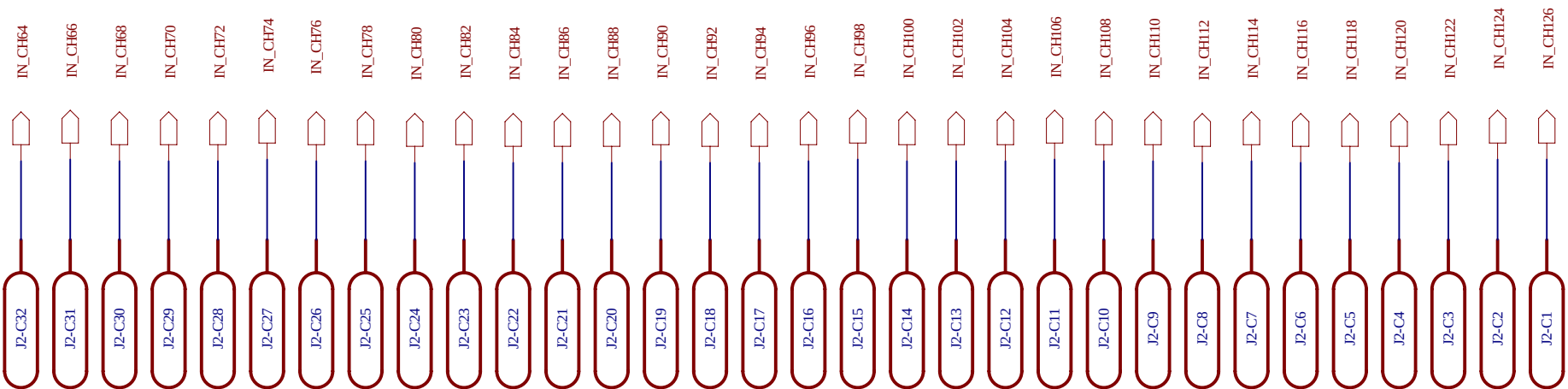
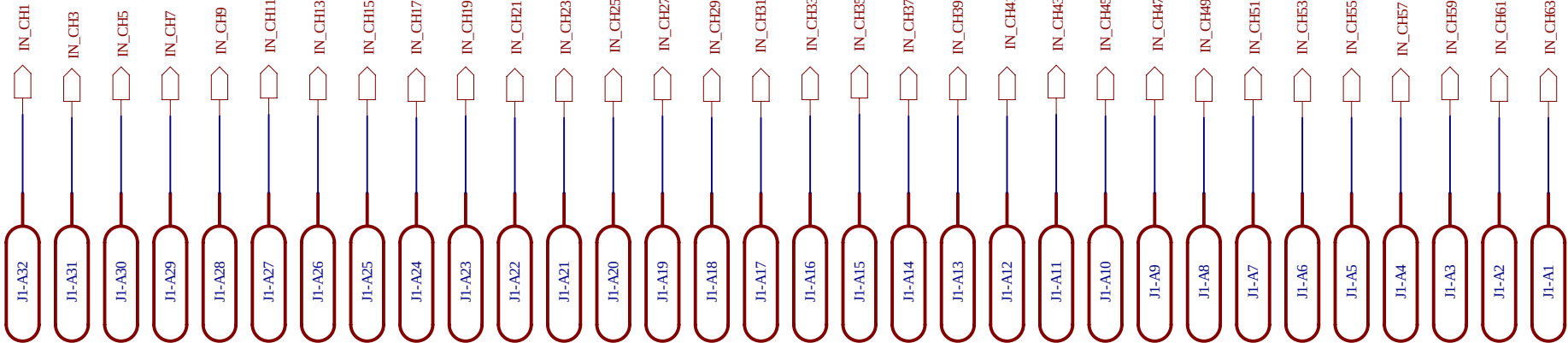
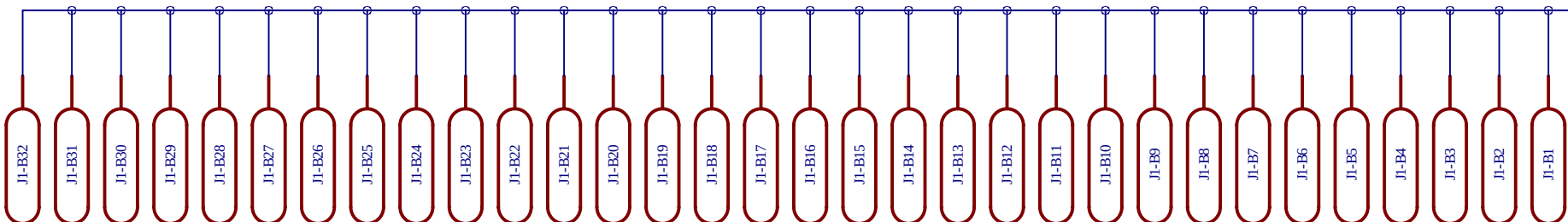
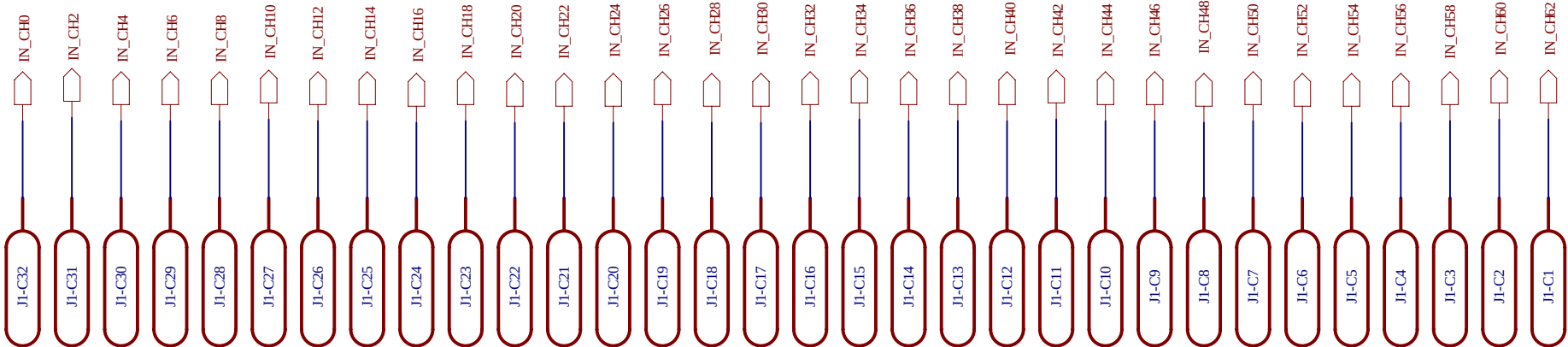
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LTR	ECO NO:	APPROVED:	DATE:

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TITLE: FEB2 prototype v2.0			
CODE: jb2023	SIZE: C	DRAWING NO: 35	REV: v2.0
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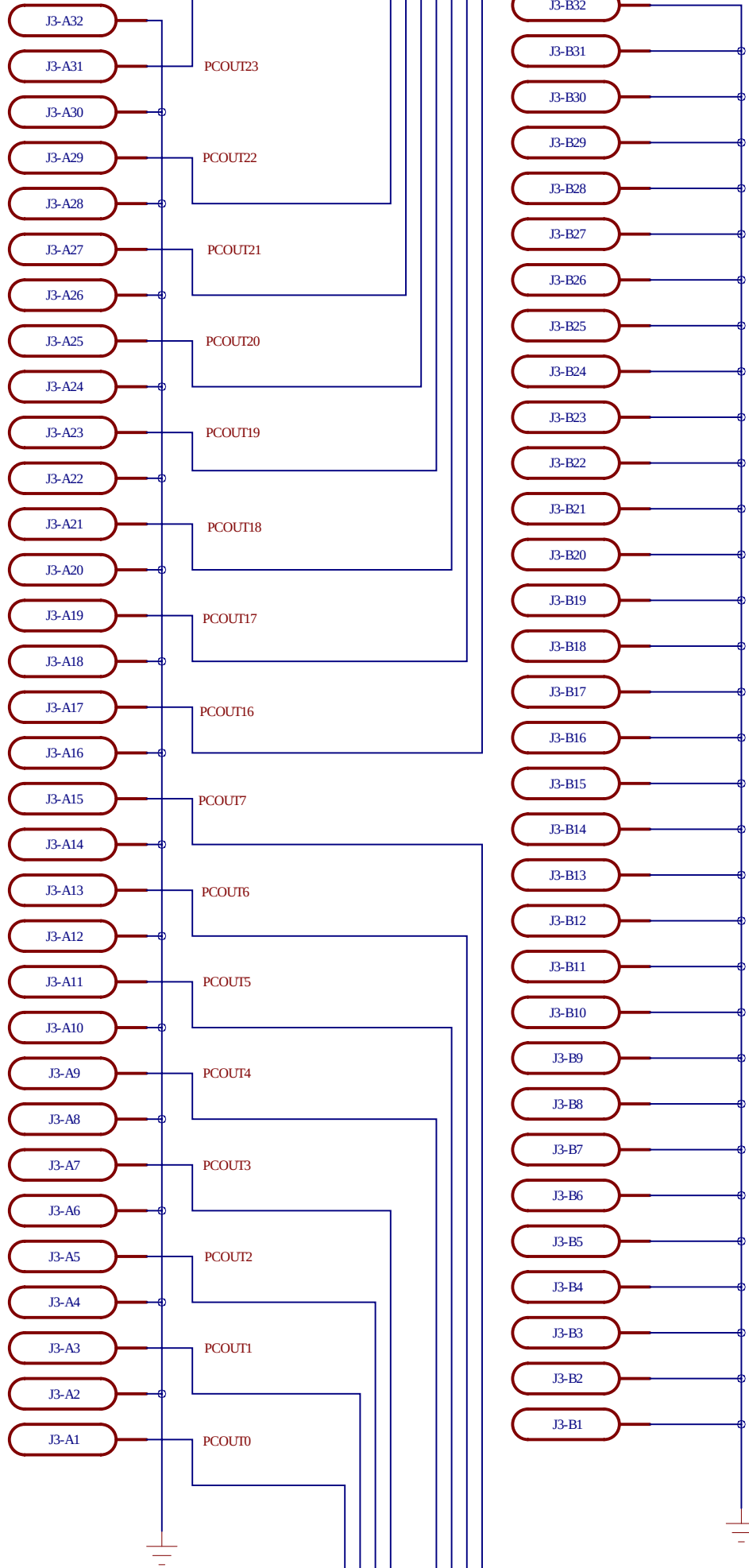
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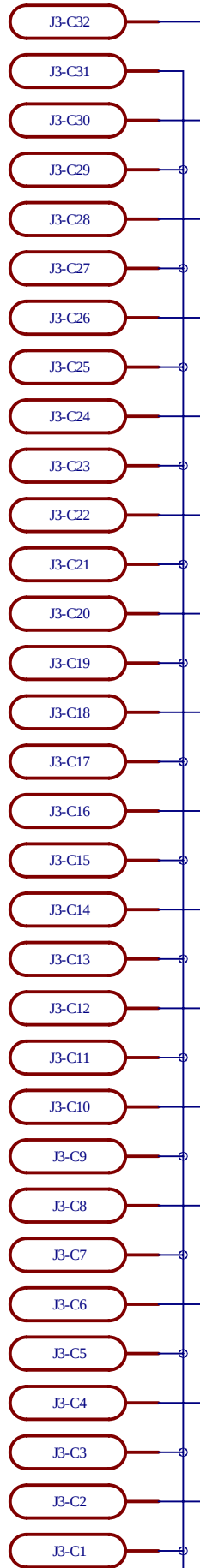
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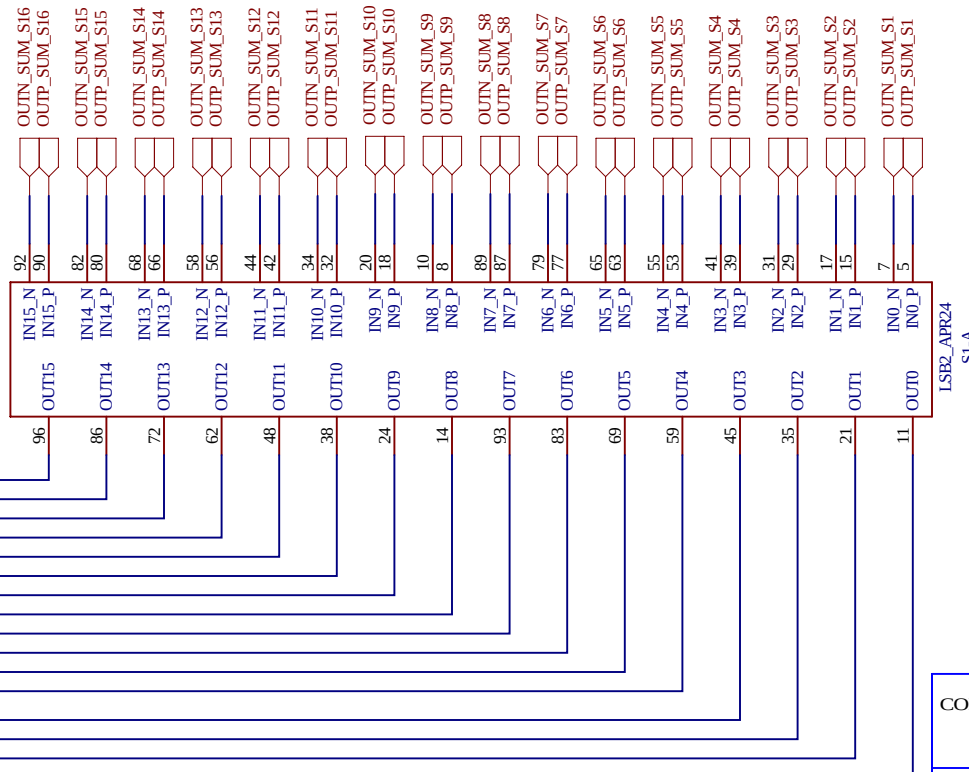
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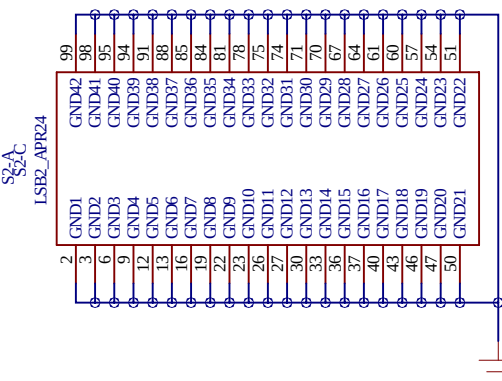
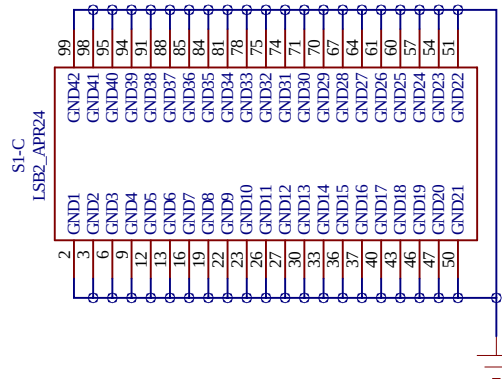
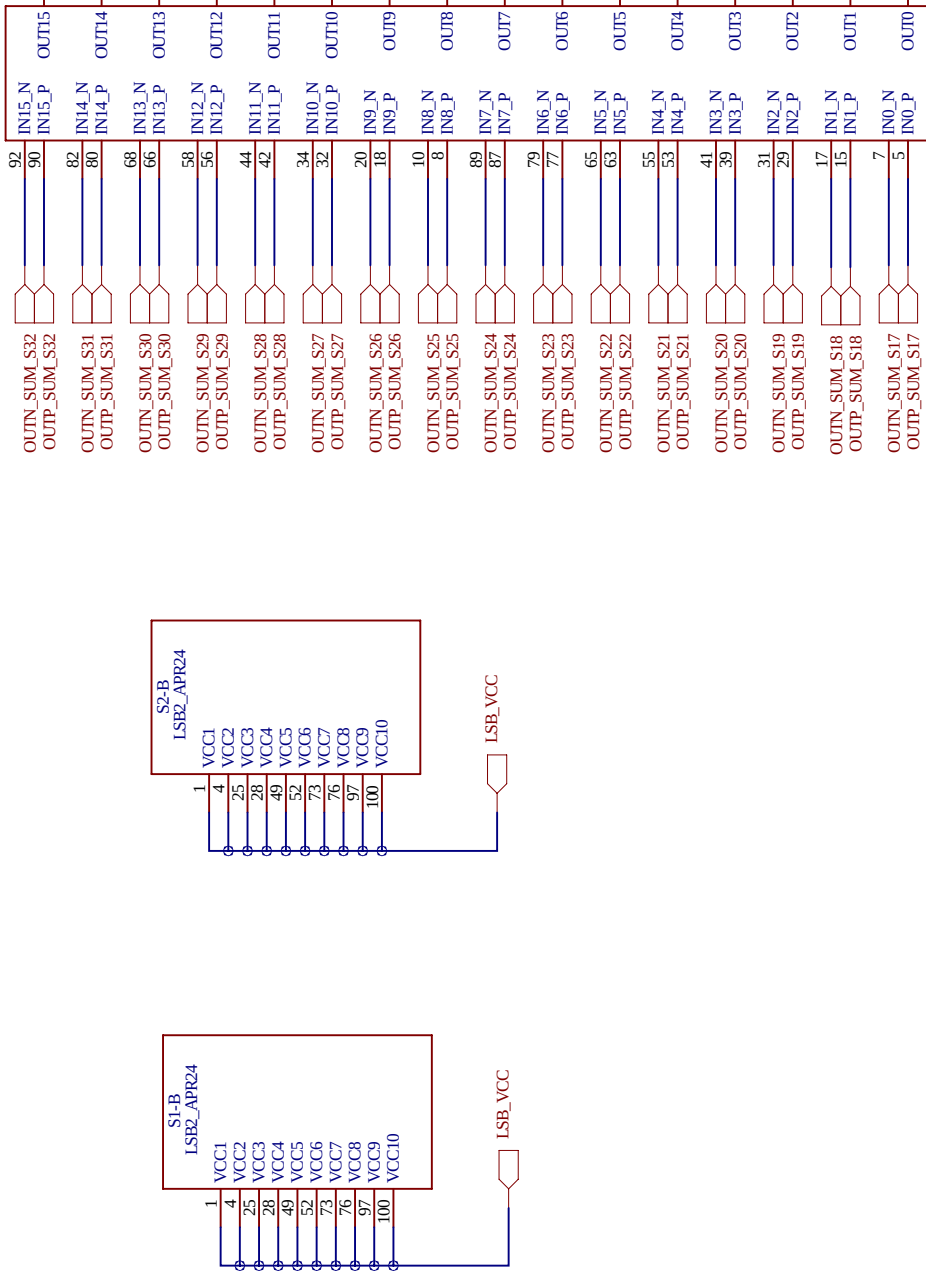
Top view



Top side PC



Bottom side PC



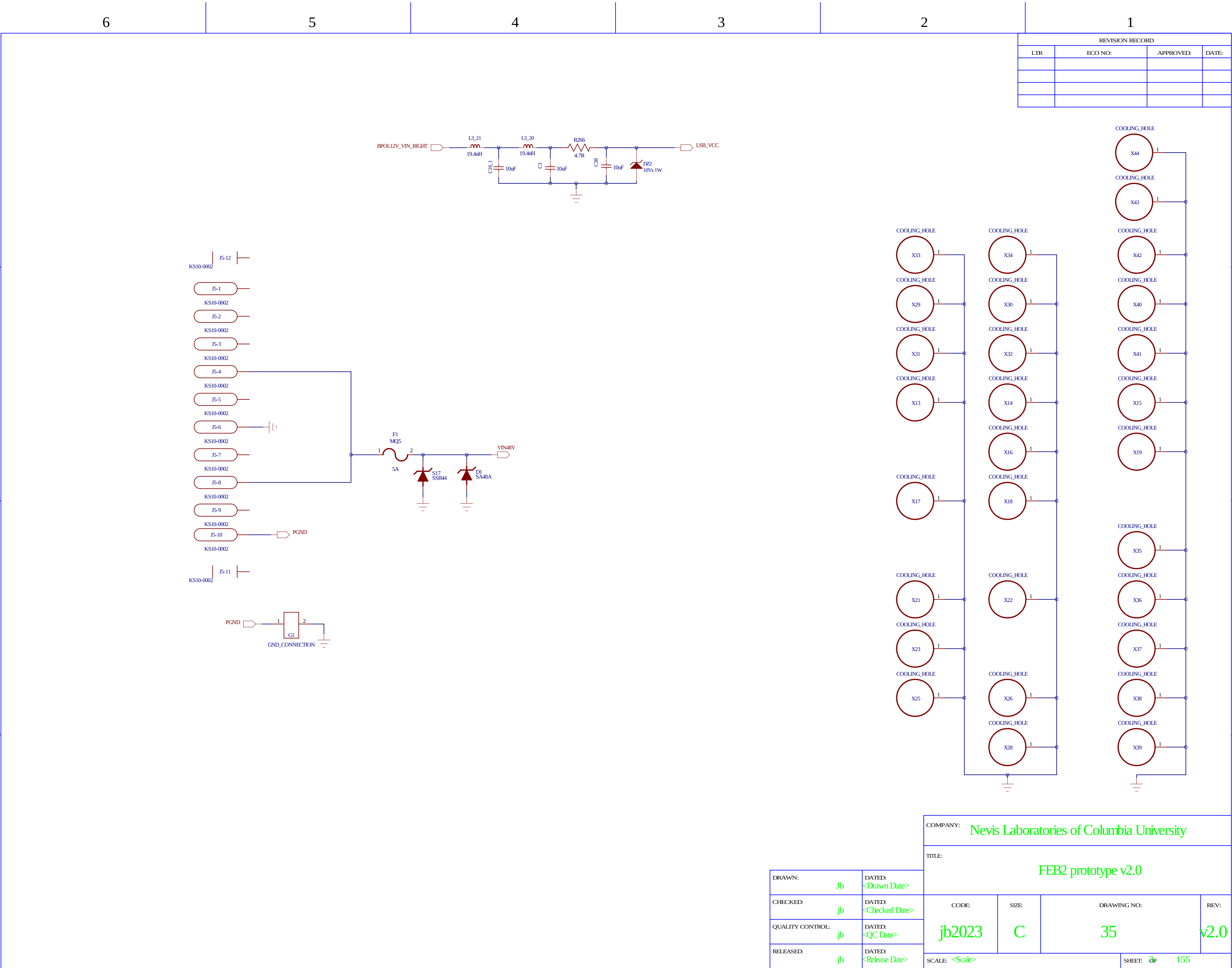
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COMPANY: Nevis Laboratories of Columbia University

TITLE: FEB2 prototype v2.0

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COMPANY: Nevis Laboratories of Columbia University			
TITLE: FEB2 prototype v2.0			
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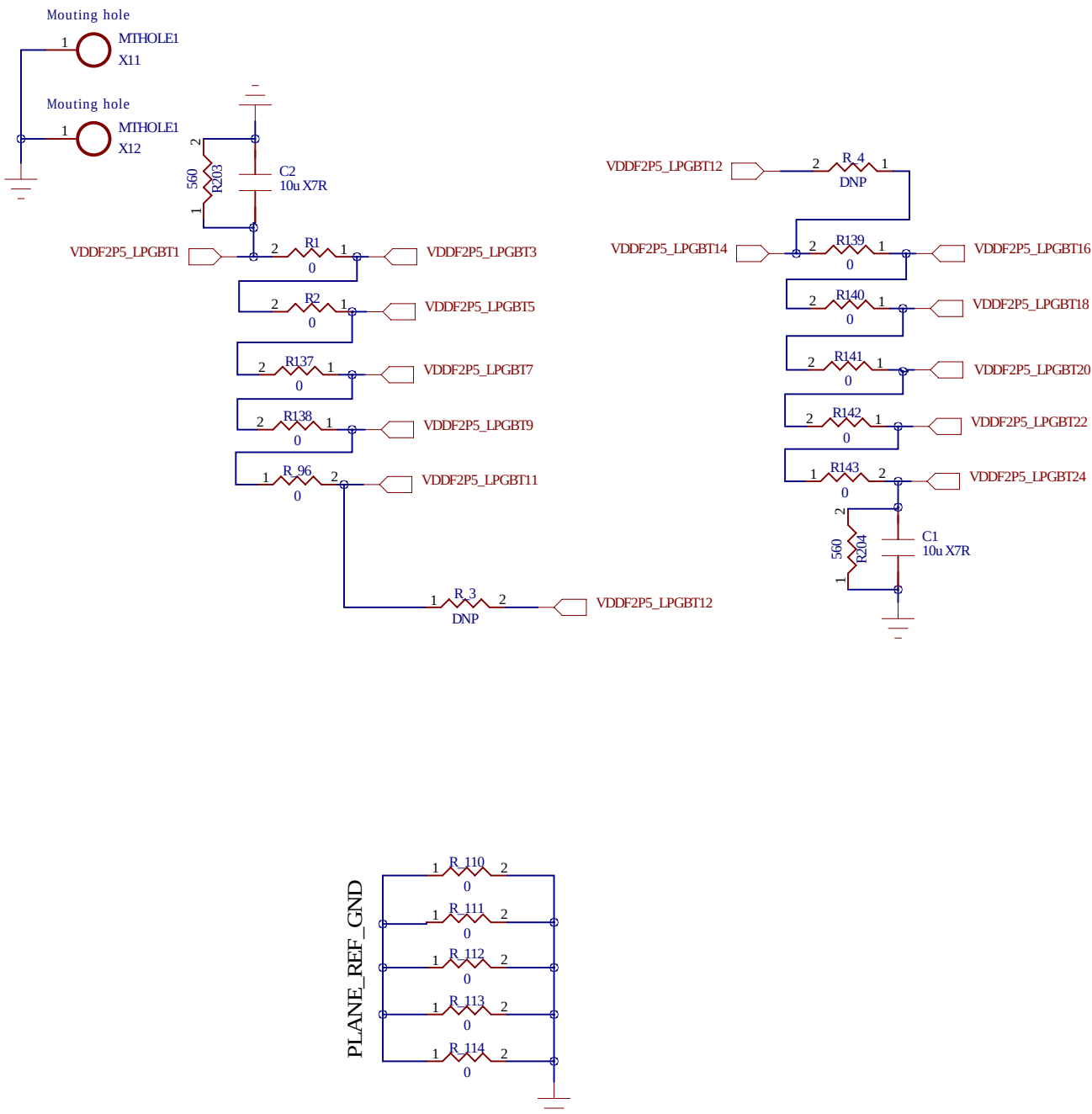
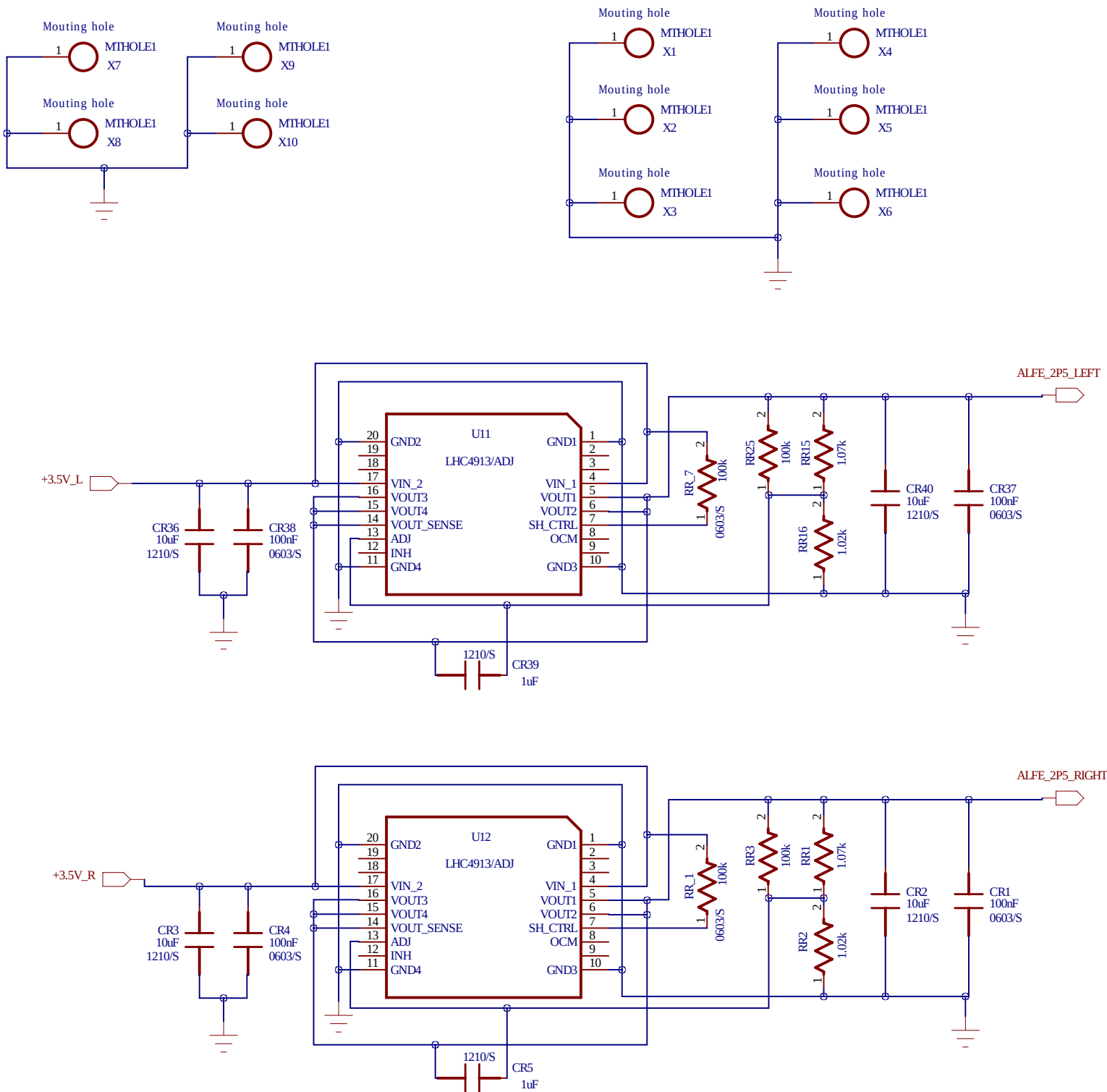
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REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

Mounting holes for the panel



COMPANY: Nevis Laboratories of Columbia University			
TITLE: FEB2 prototype v2.0			
CODE: jb2023	SIZE: C	DRAWING NO: 35	REV: v2.0
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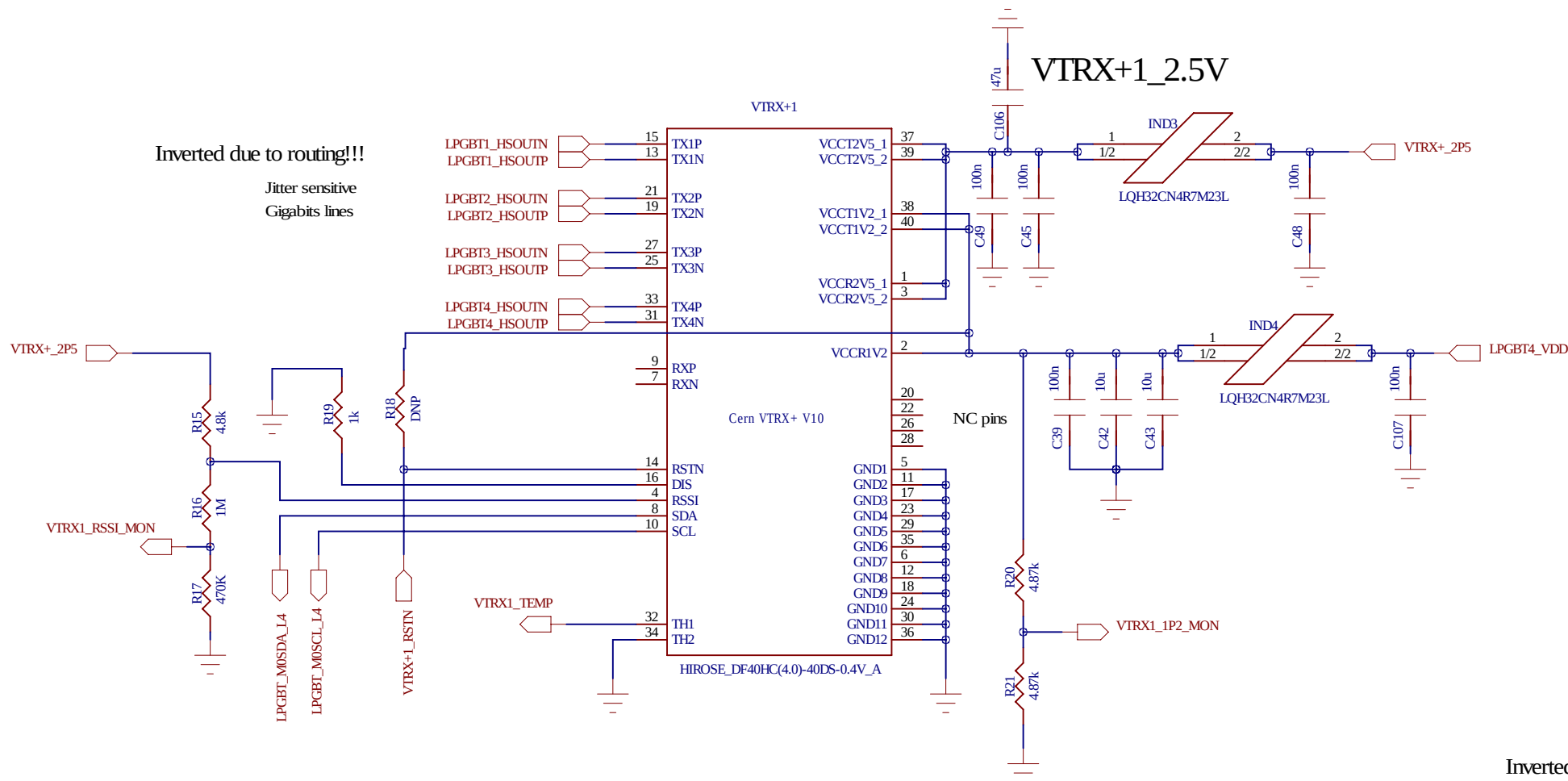
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REVISION RECORD			
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VTRX+1_2.5V



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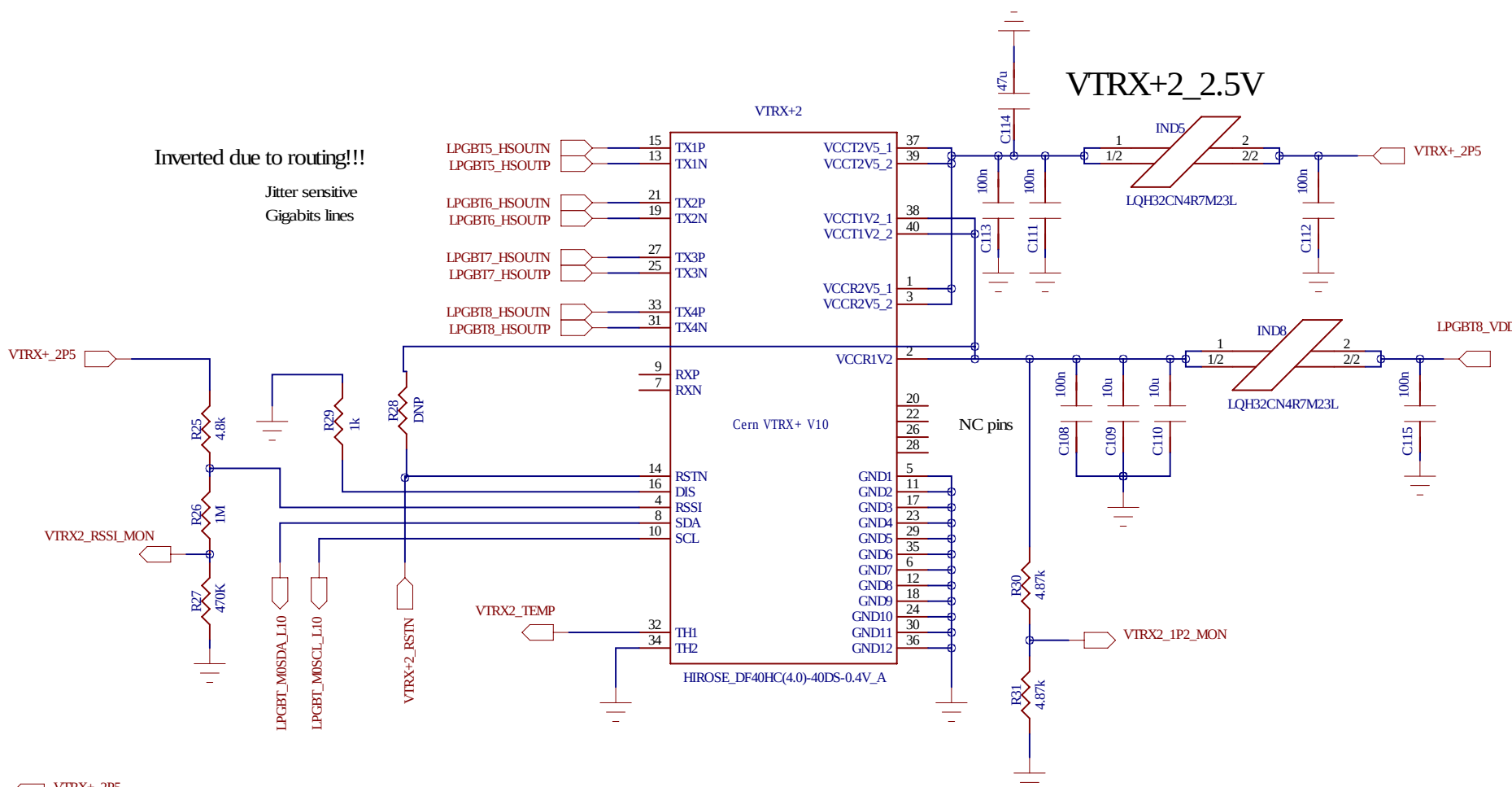
Jitter sensitive
Gigabits lines

Change the RSTN resistor on all VTRx+s from DNP to 1K

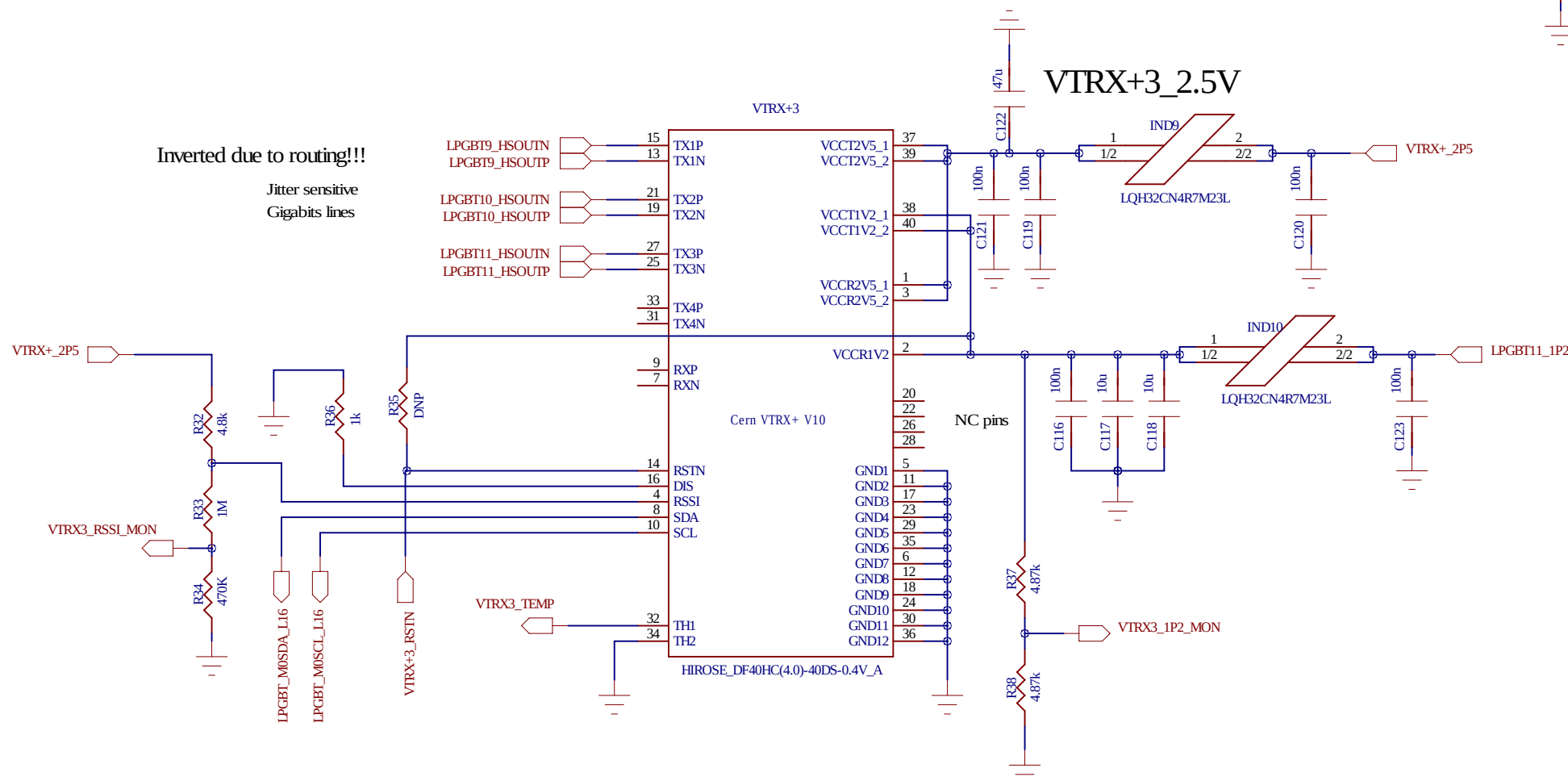
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Jitter sensitive
Gigabits lines

VTRX+2_2.5V



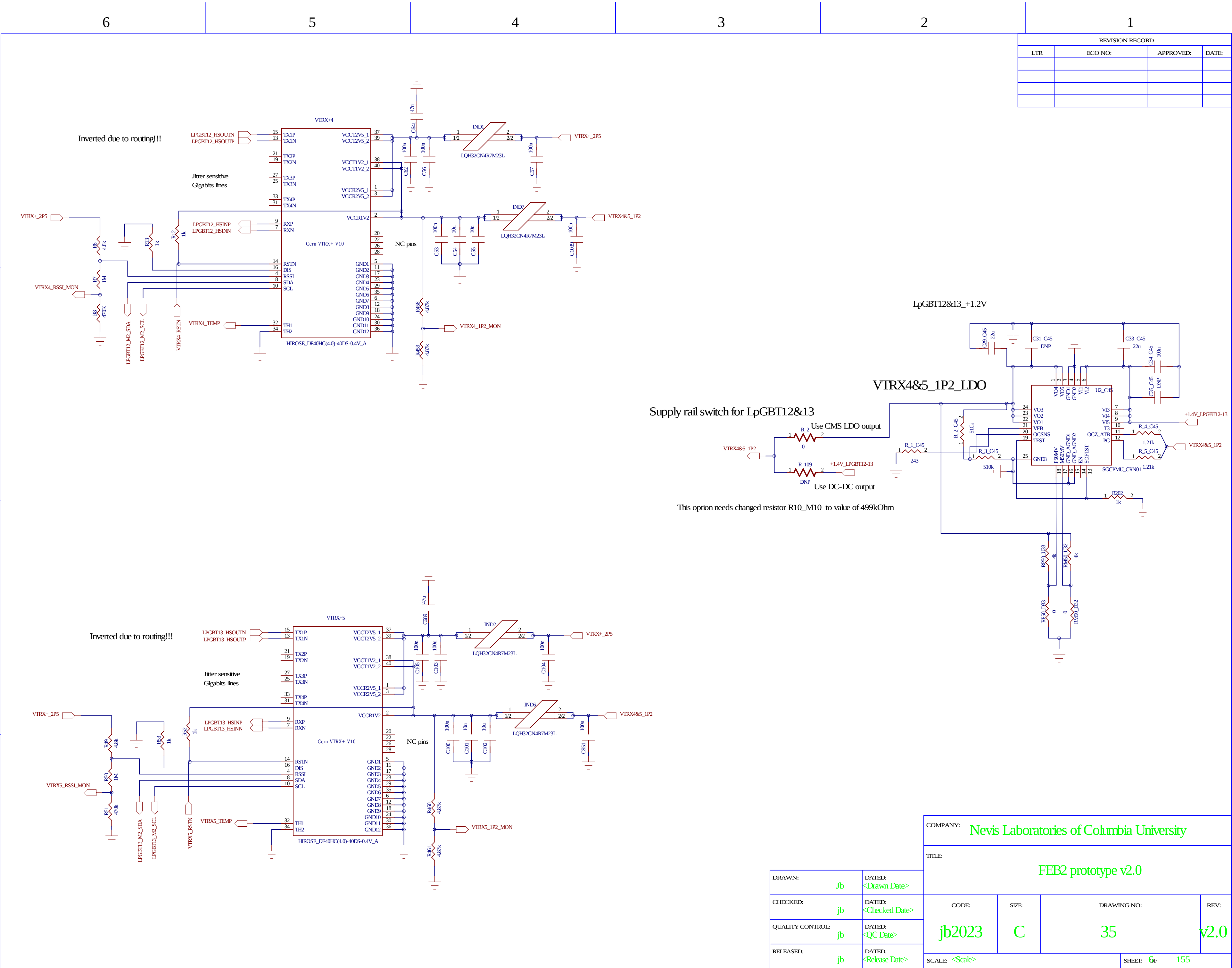
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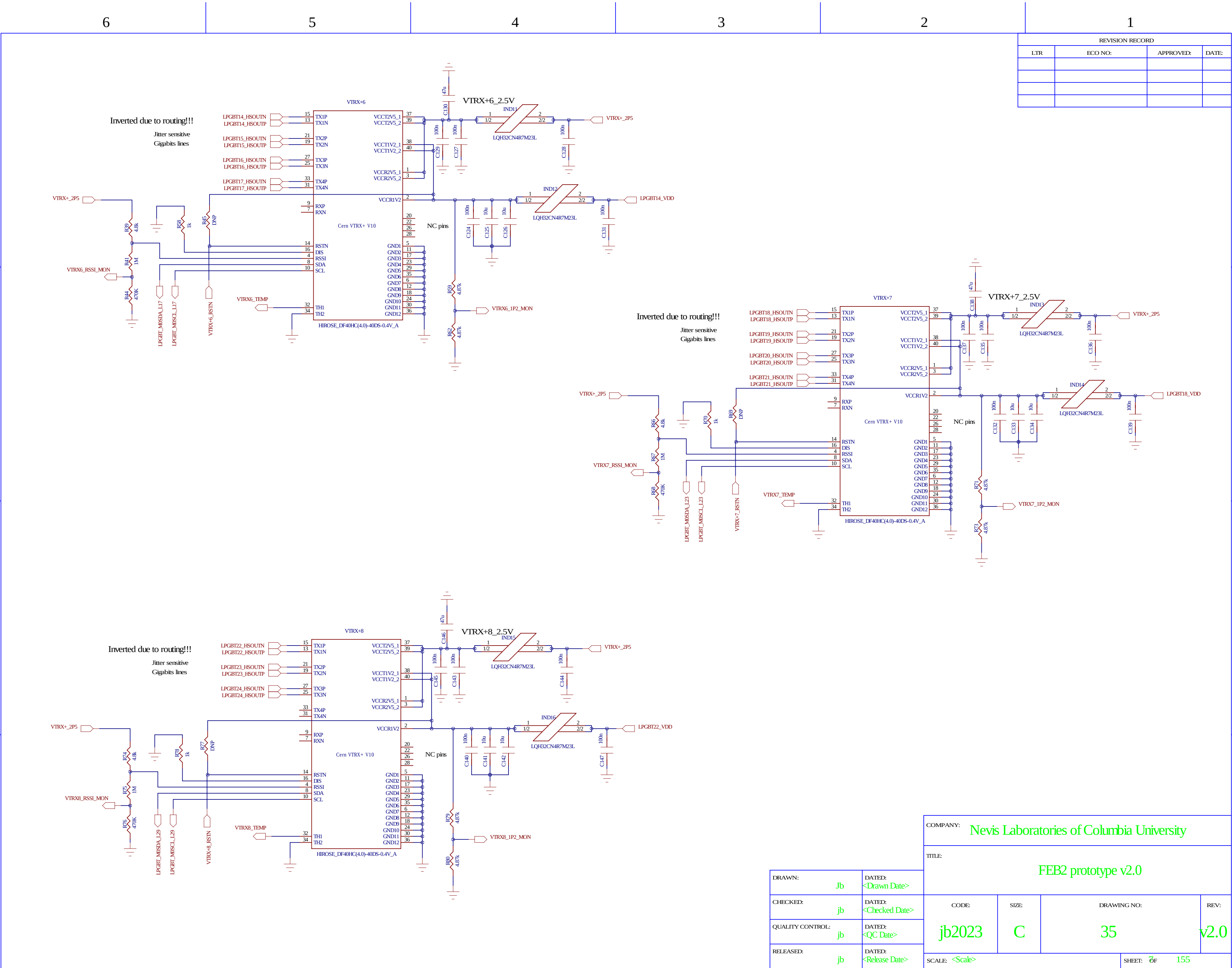


Inverted due to routing!!!

Jitter sensitive
Gigabits lines

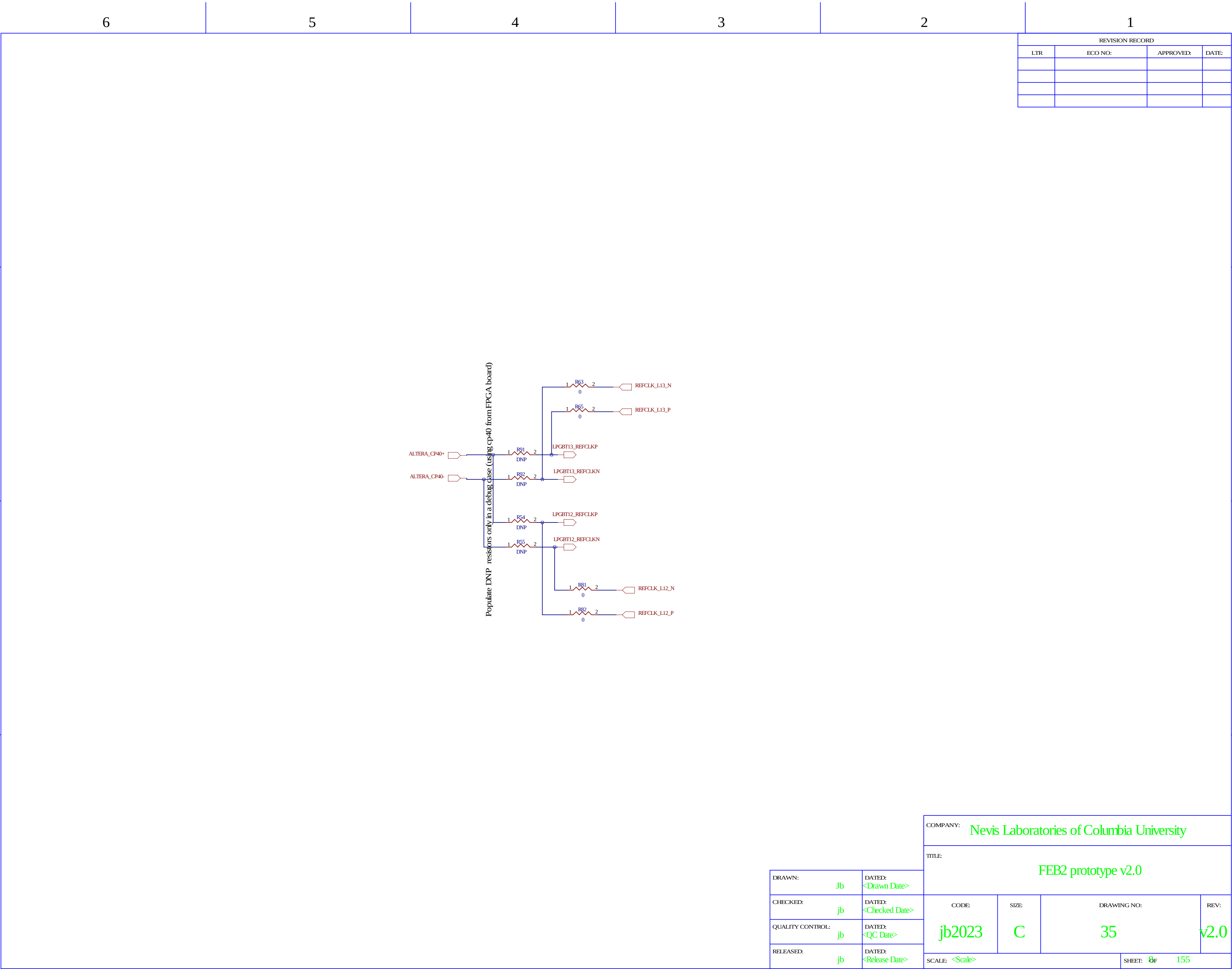
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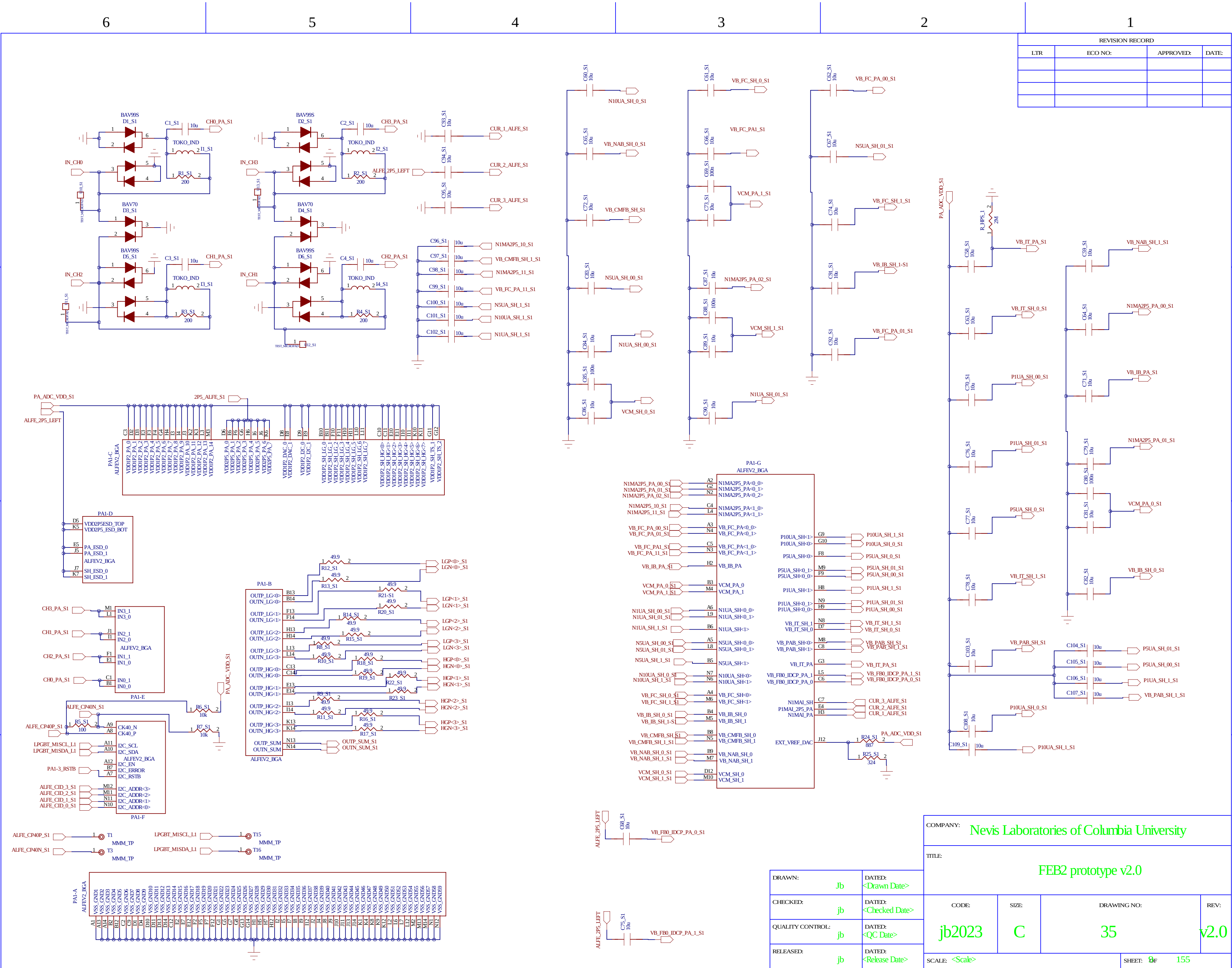




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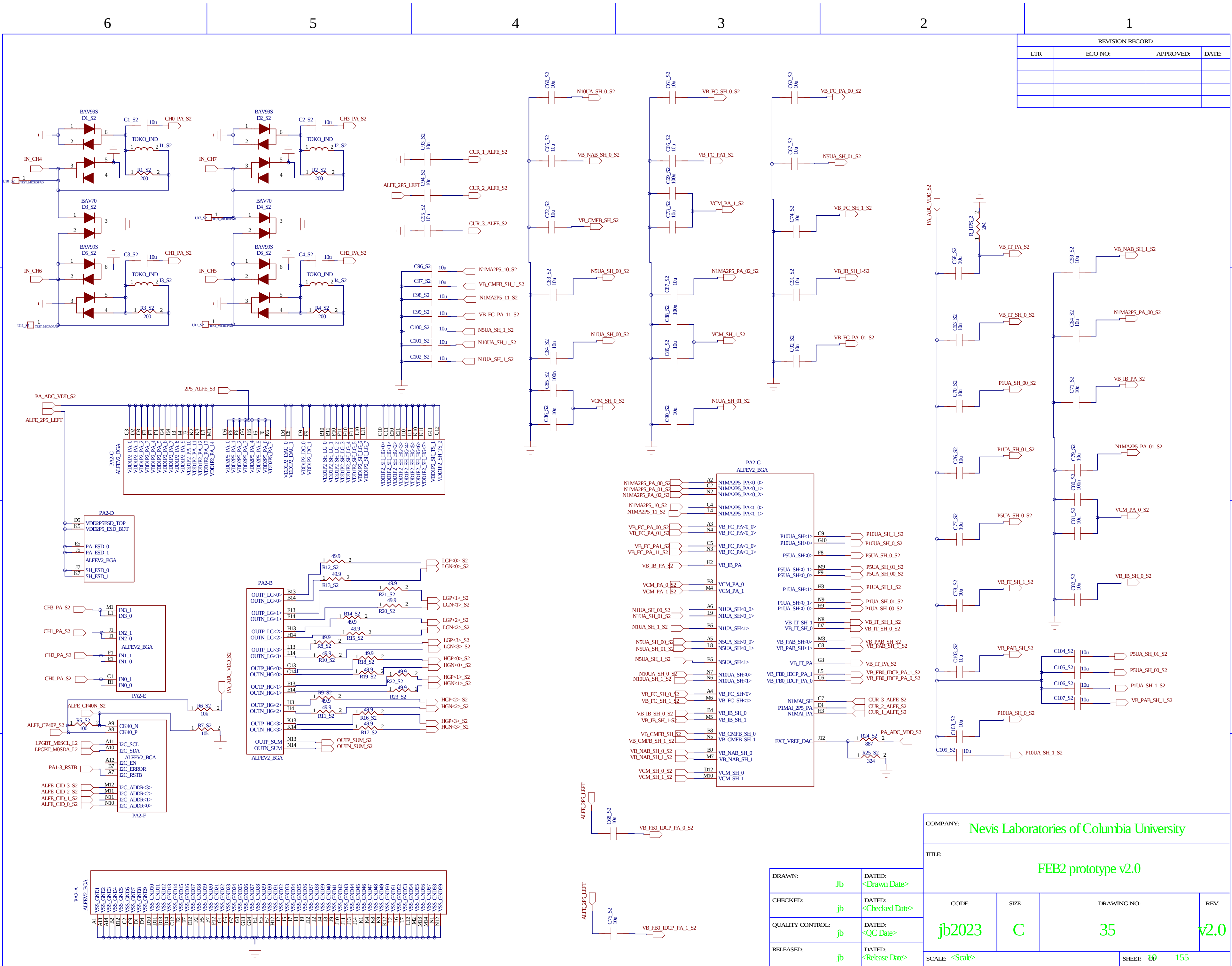


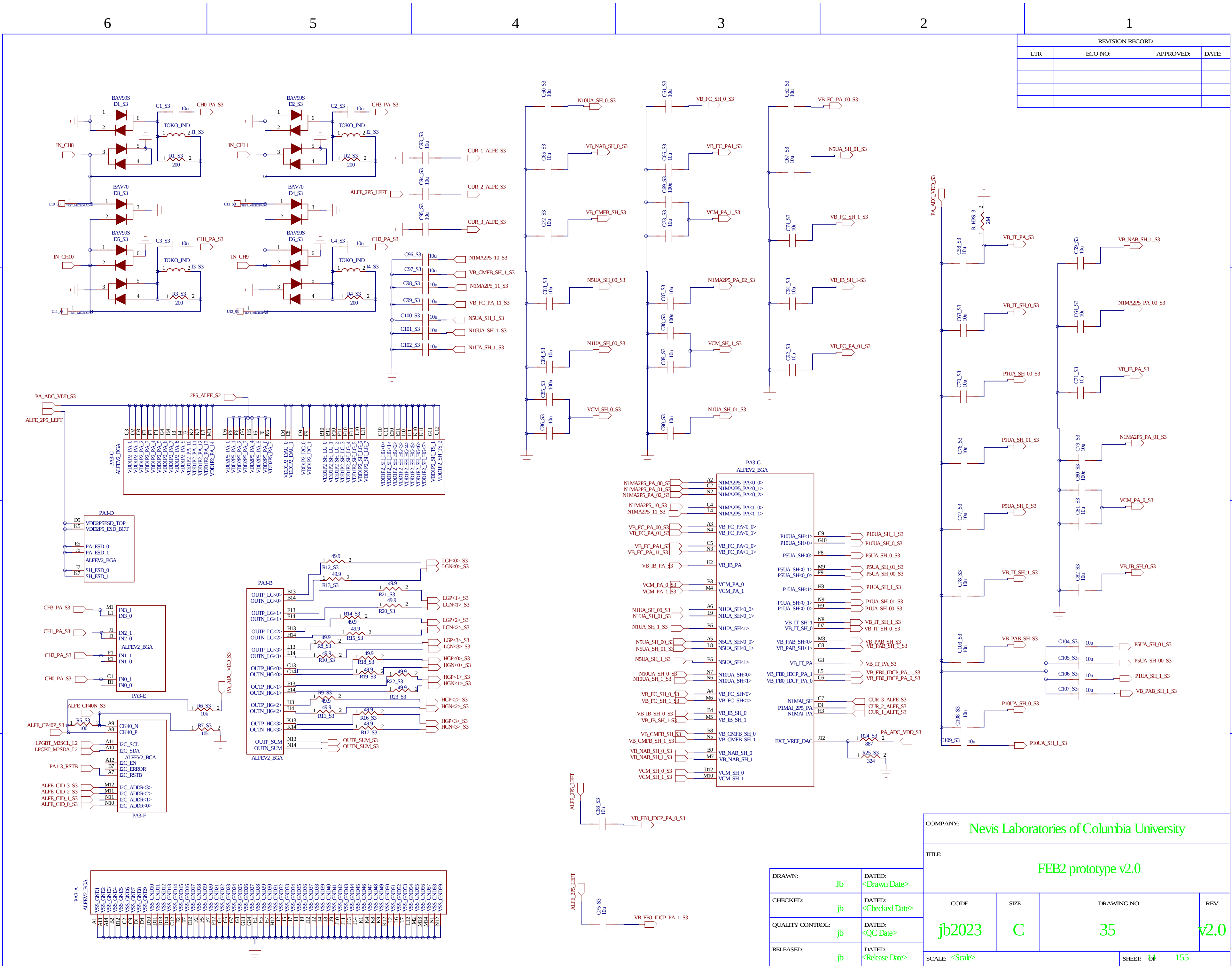
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TITLE: FEB2 prototype v2.0

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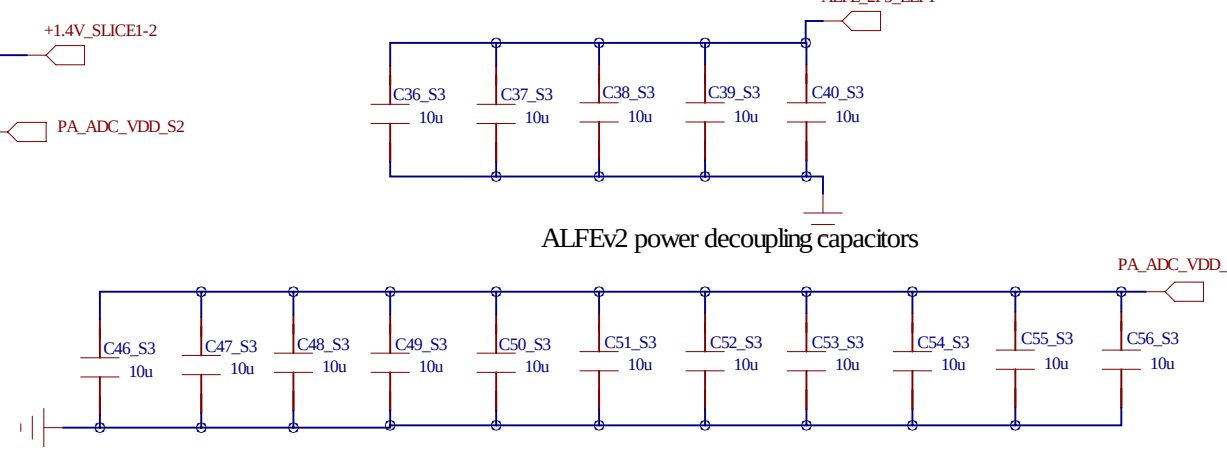
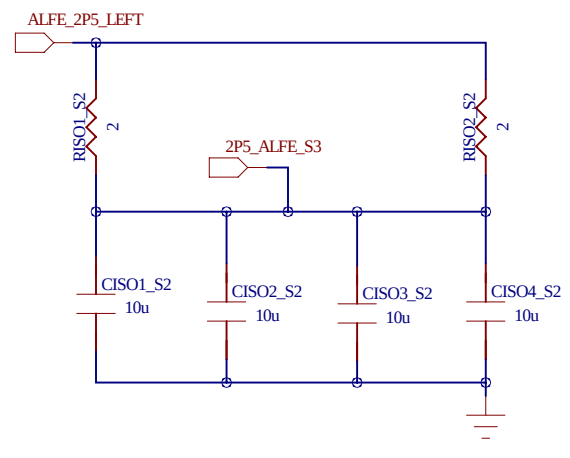
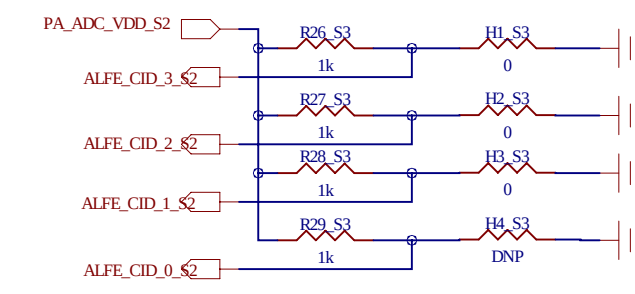
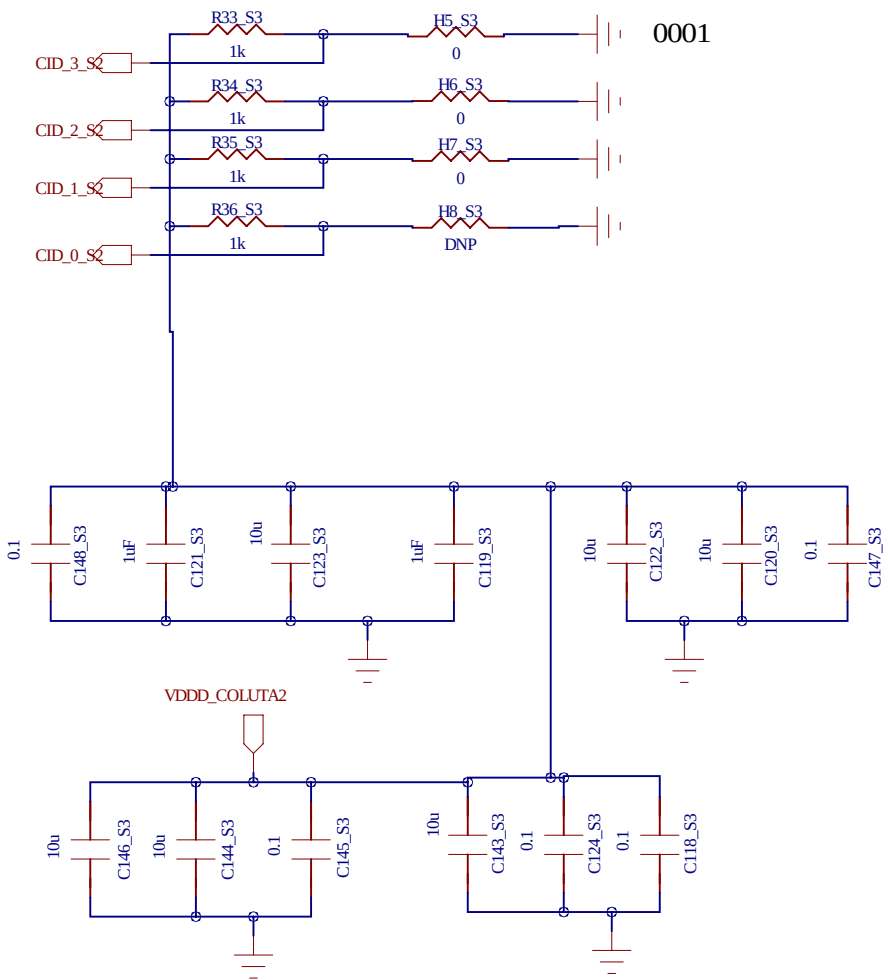
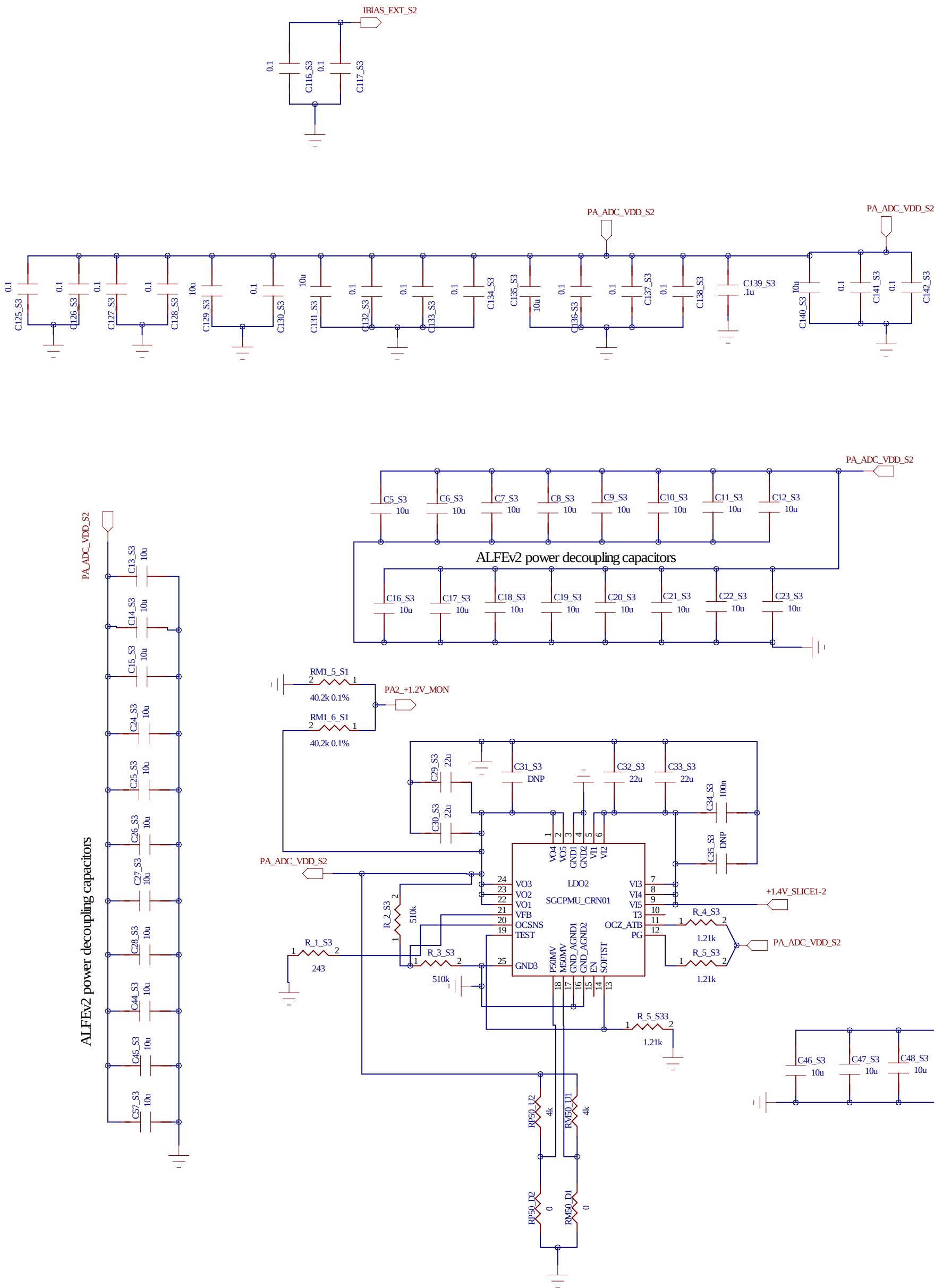
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REVISION RECORD			
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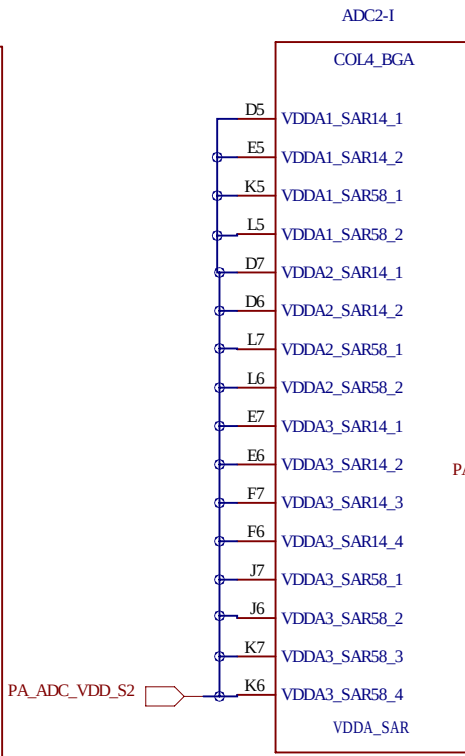
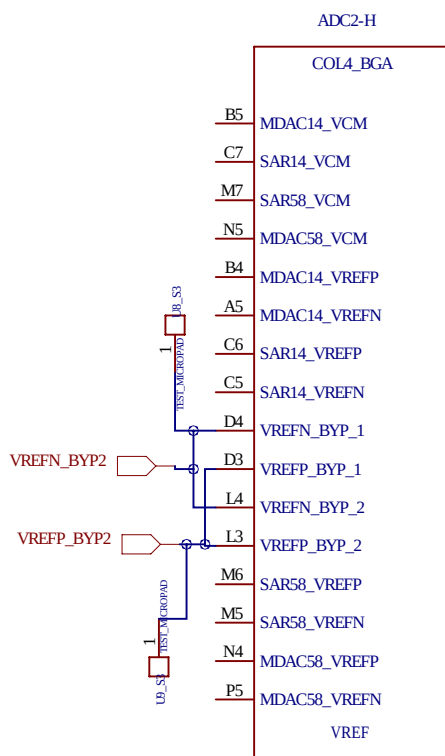
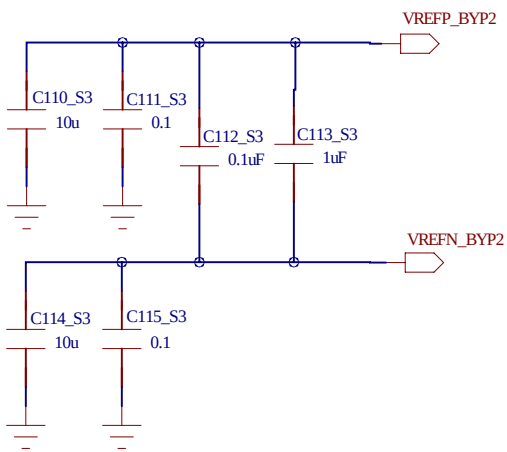
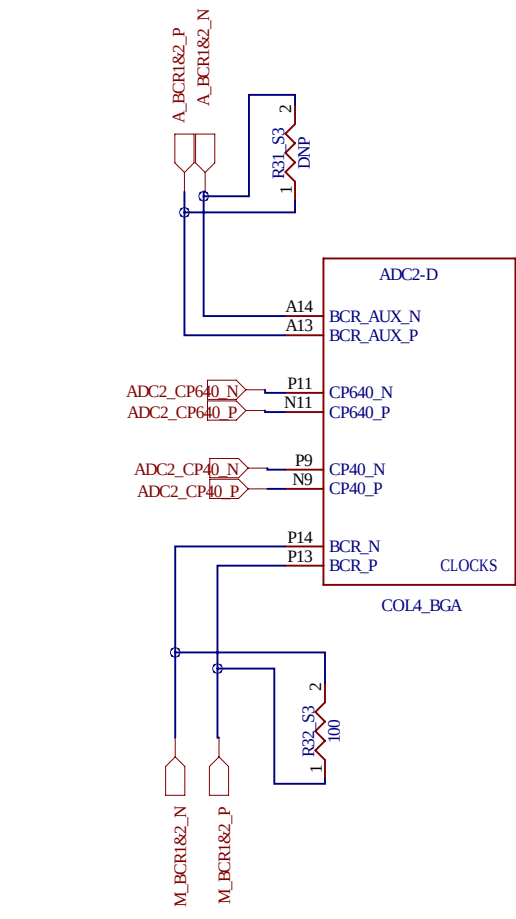
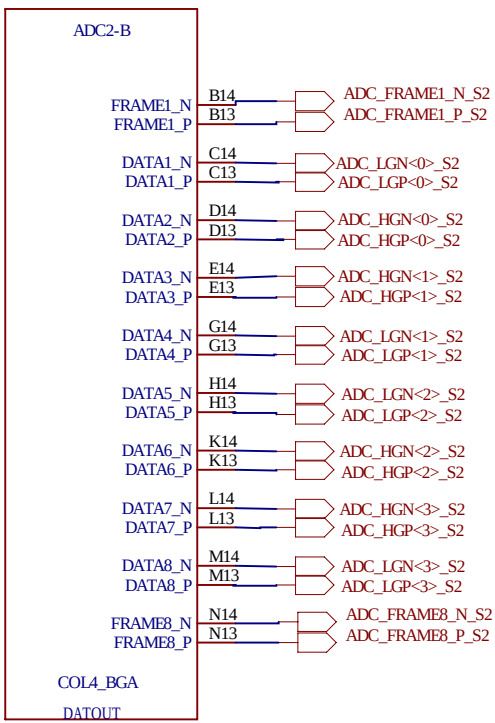
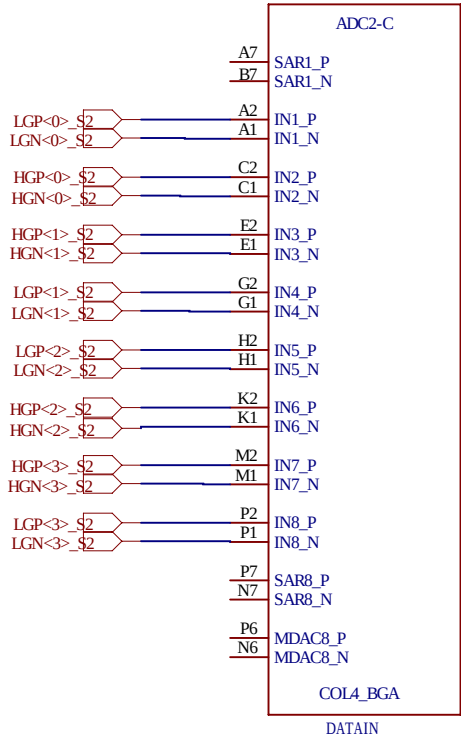
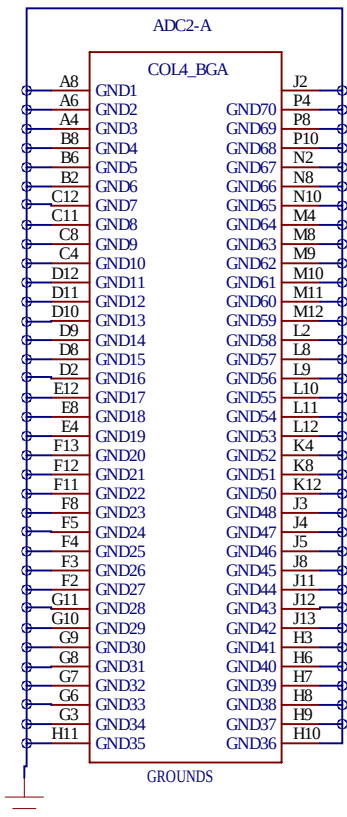
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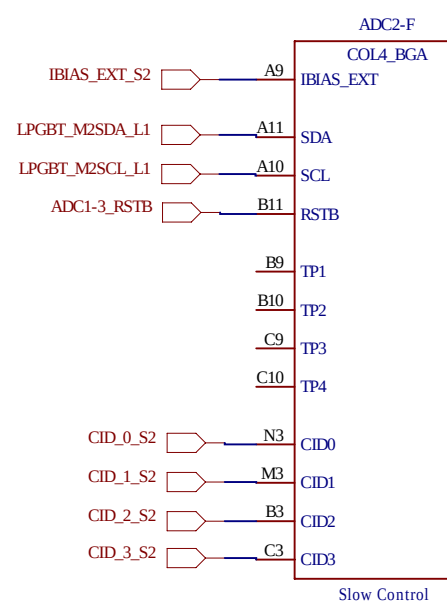
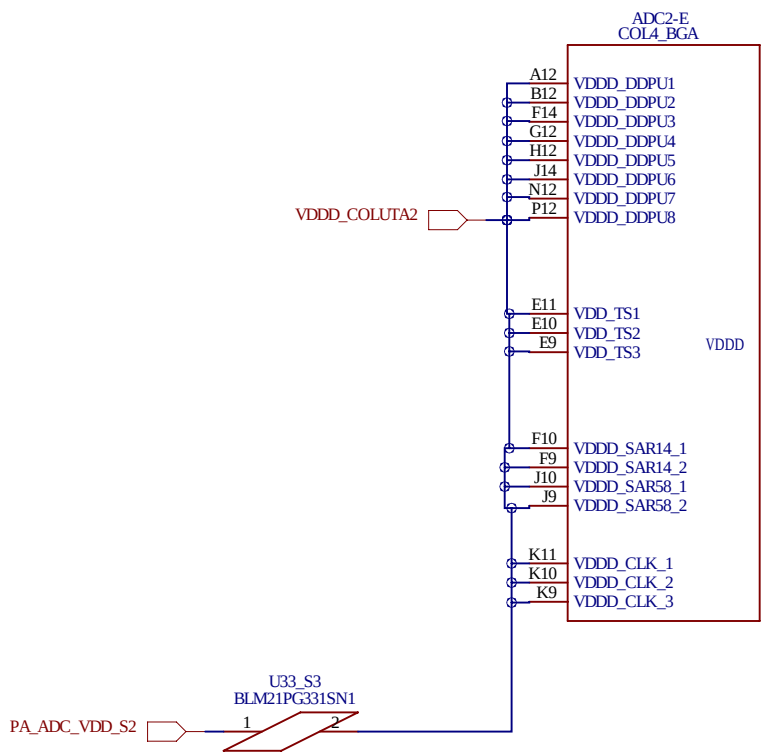
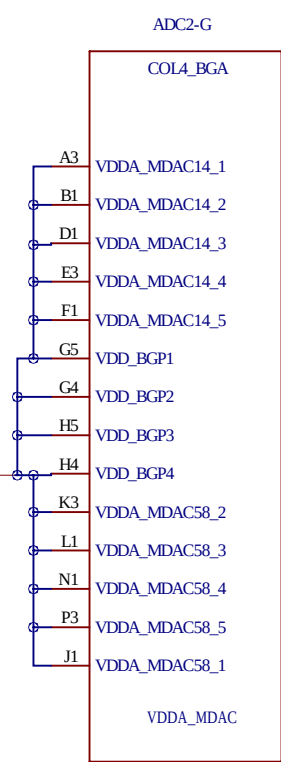
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REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



PA_ADC_VDD_S2



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TITLE: FEB2 prototype v2.0			
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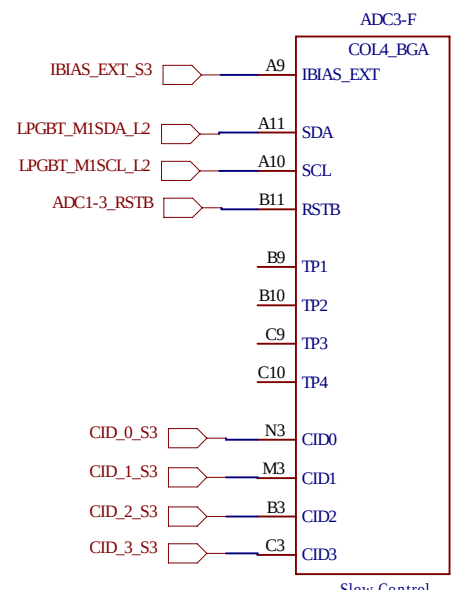
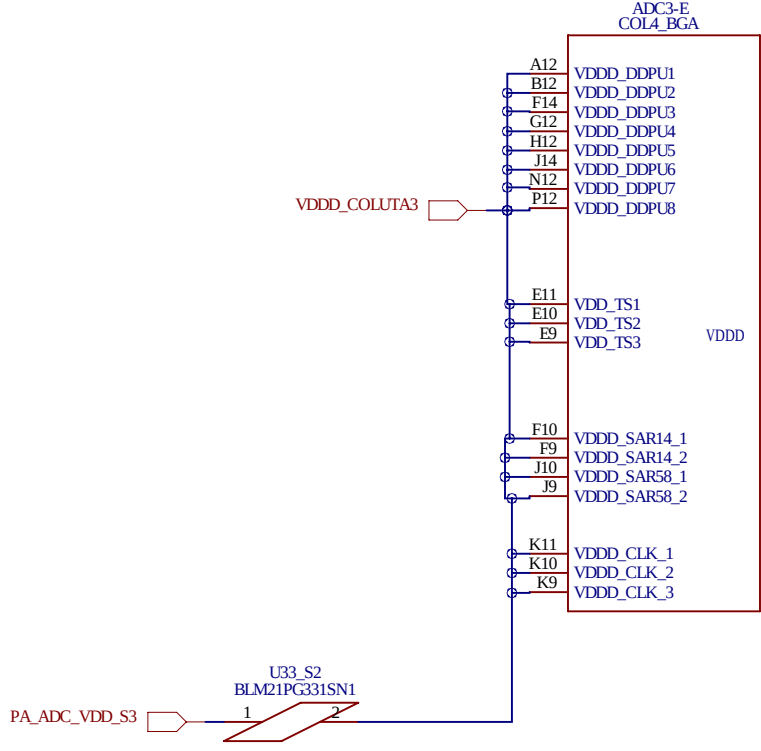
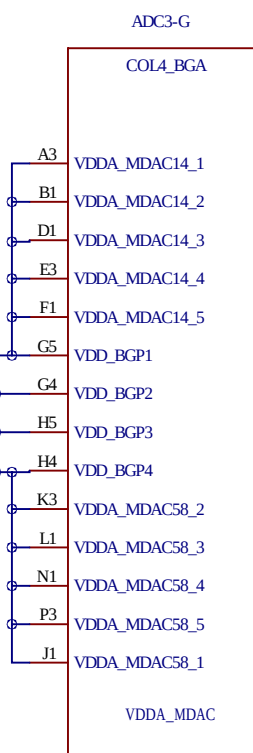
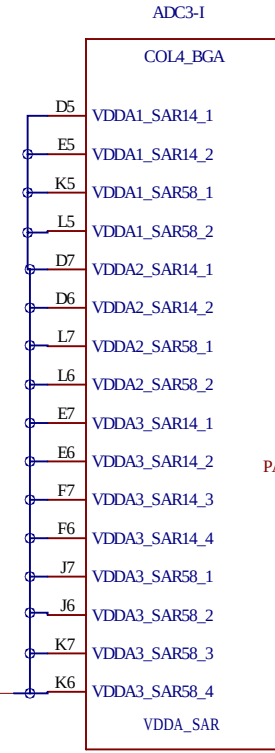
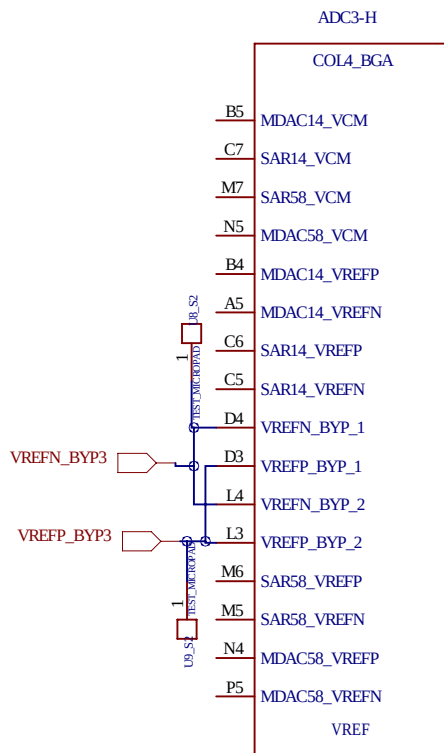
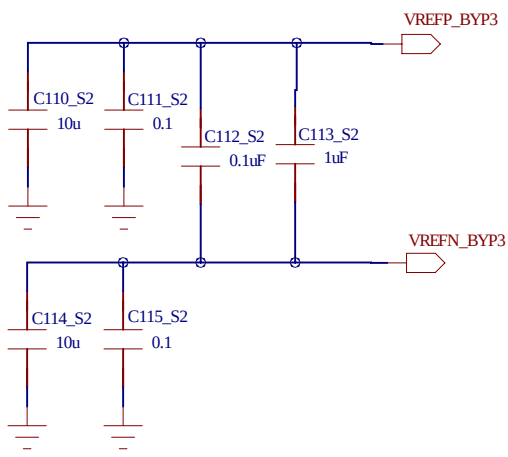
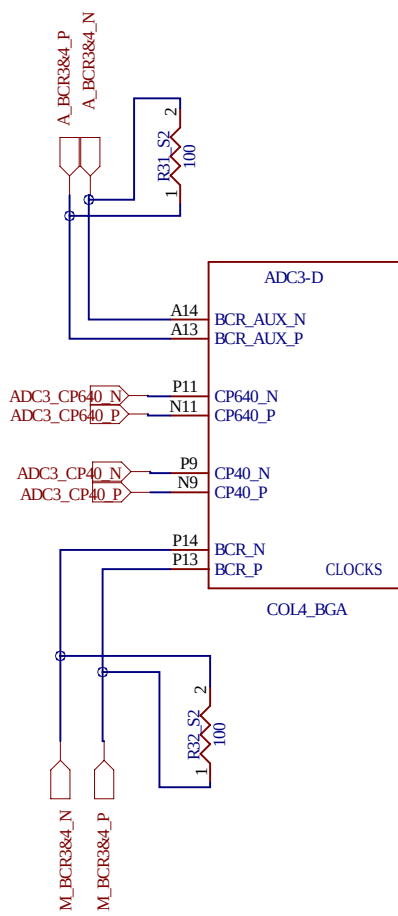
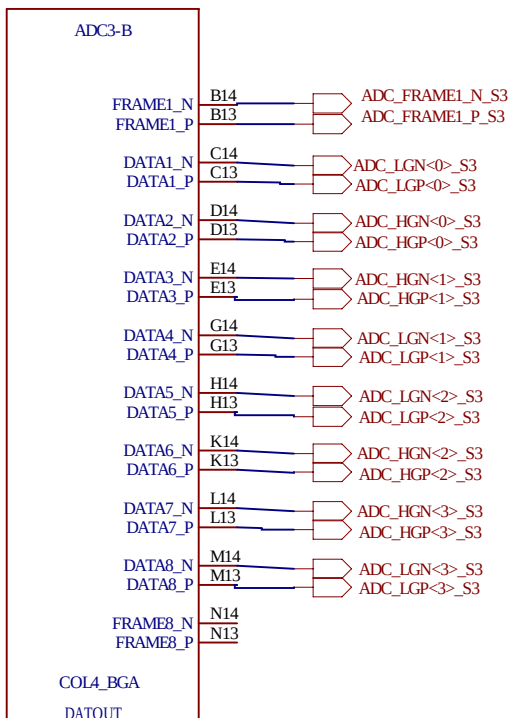
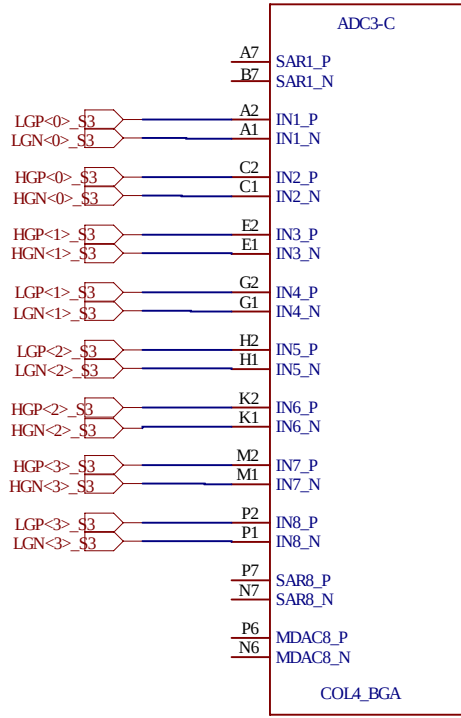
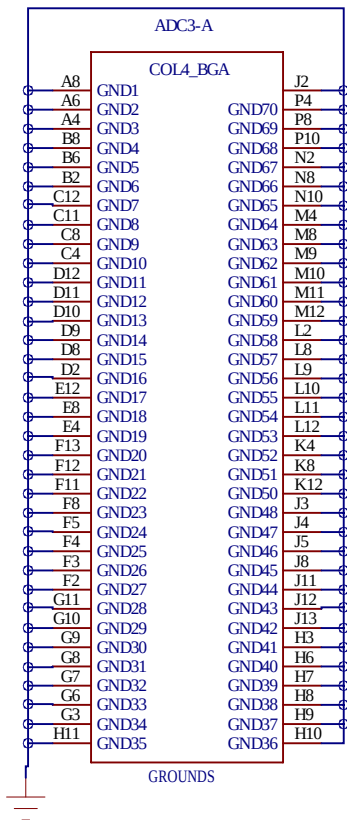
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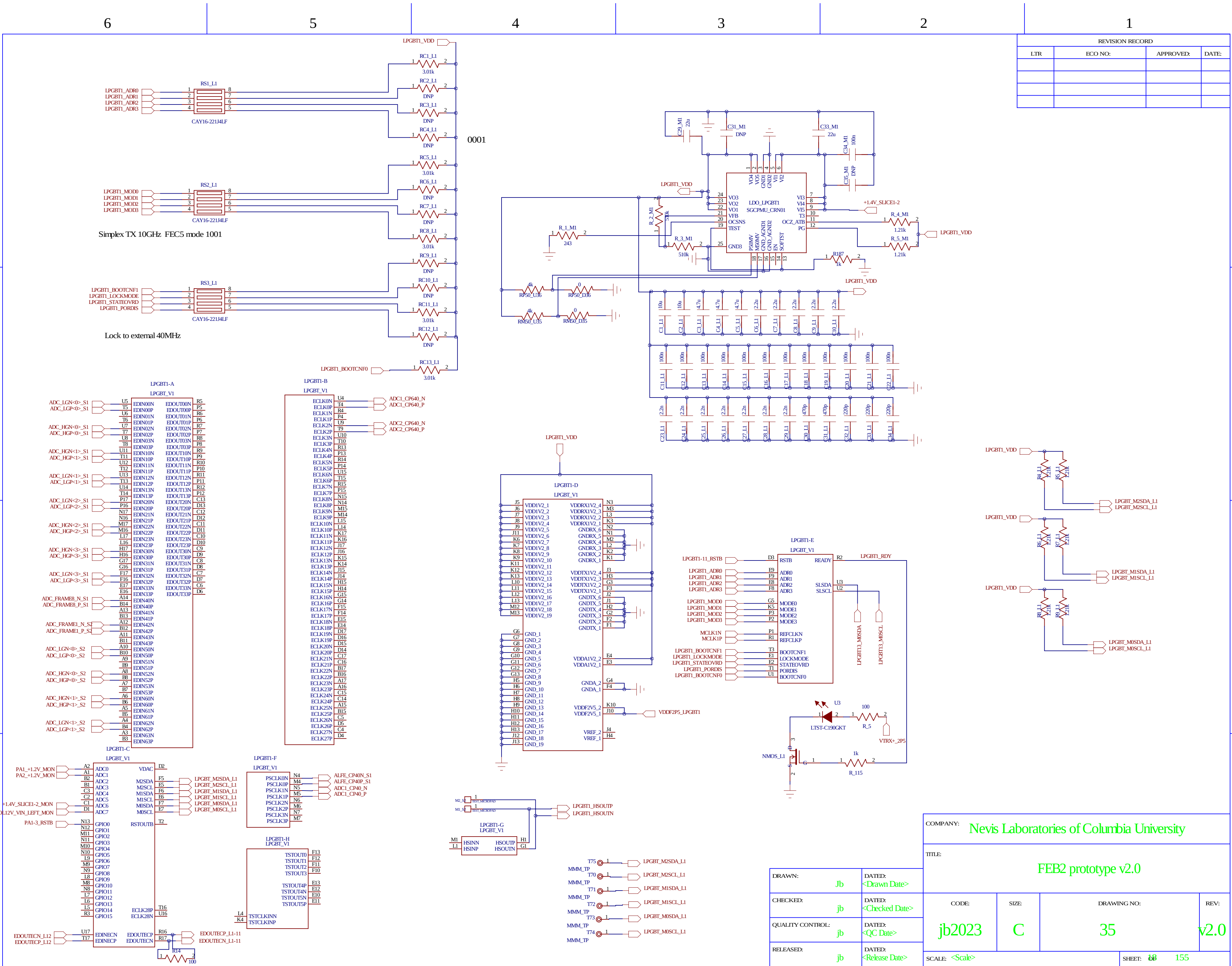
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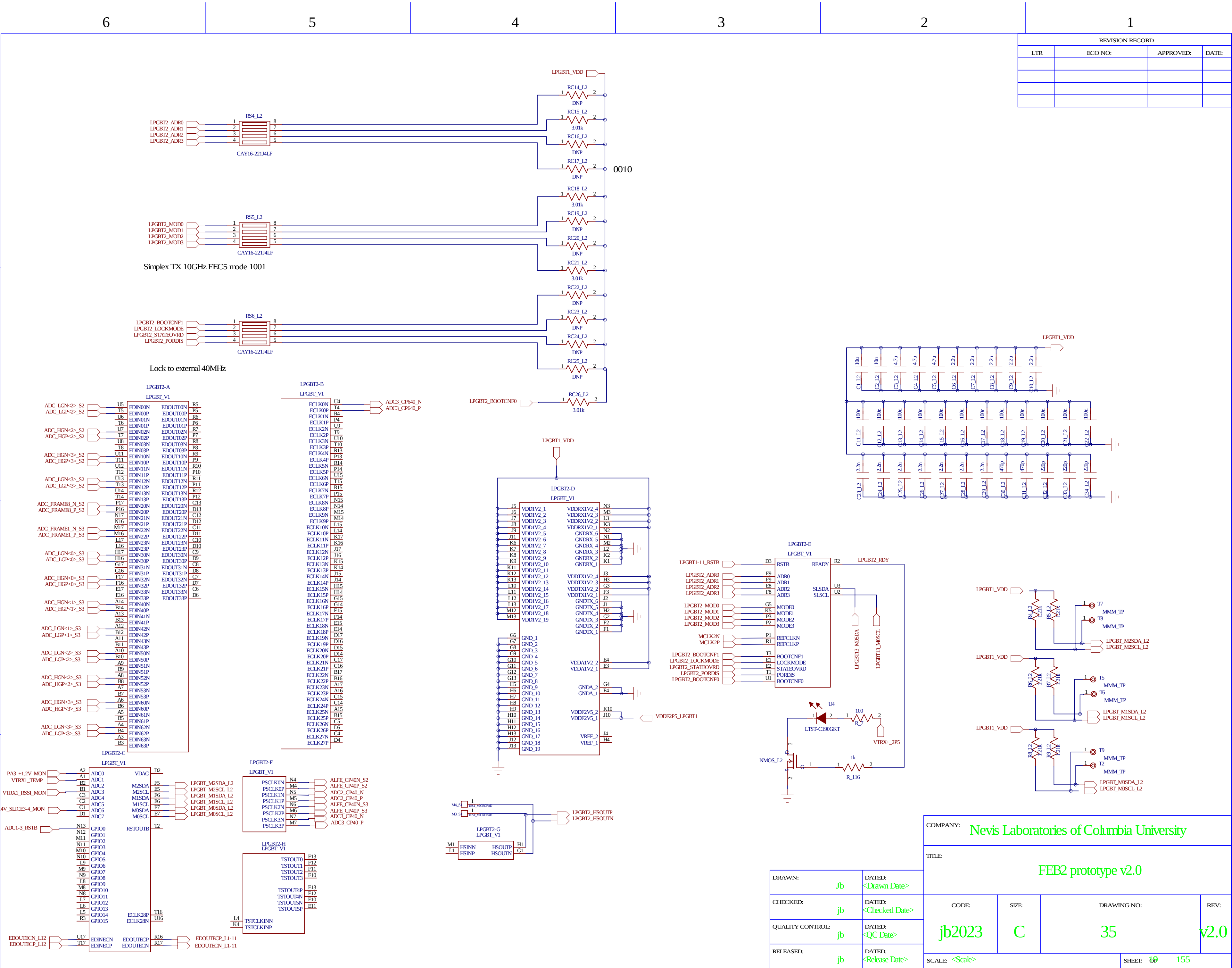
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COMPANY: Nevis Laboratories of Columbia University			
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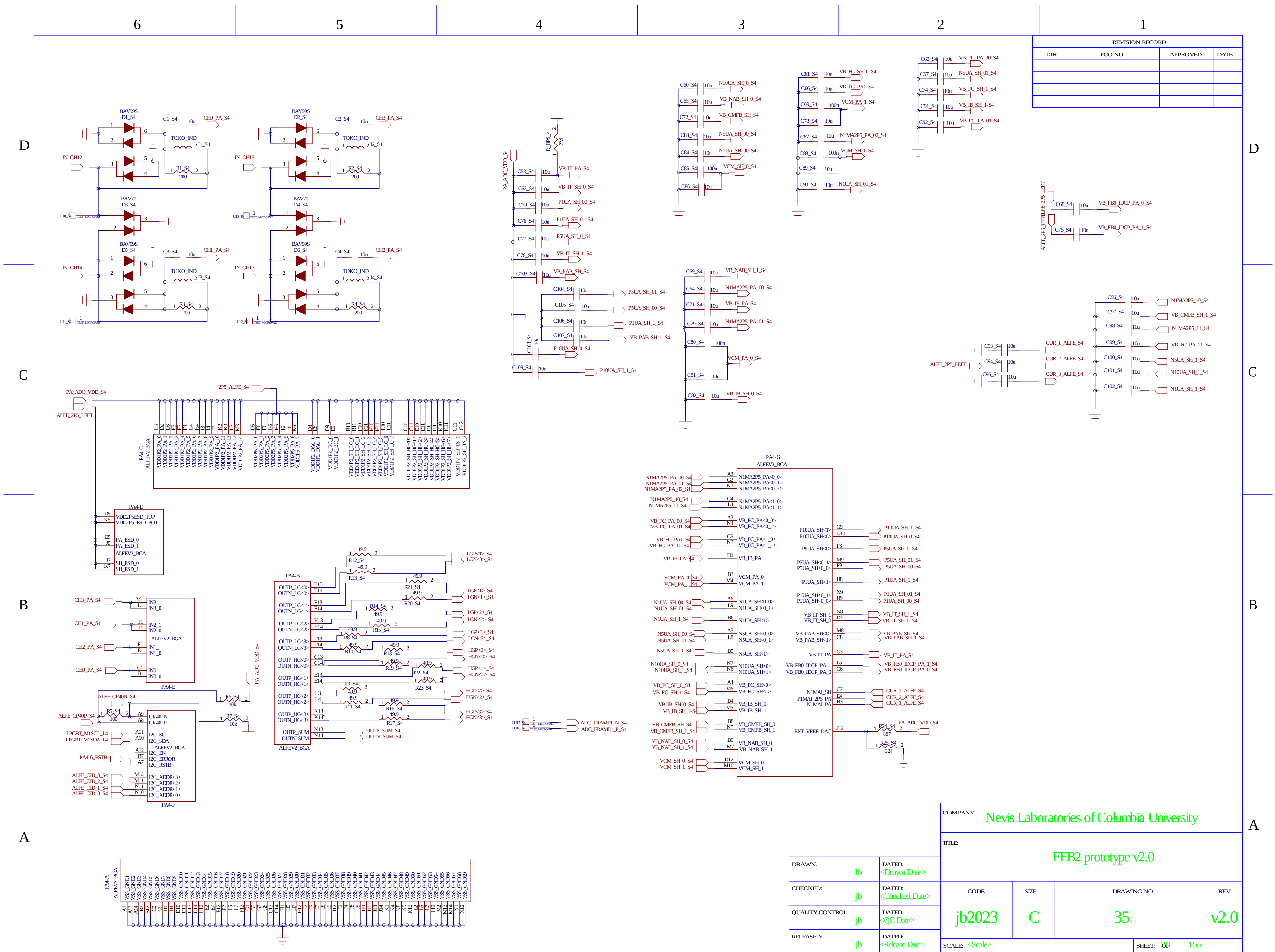


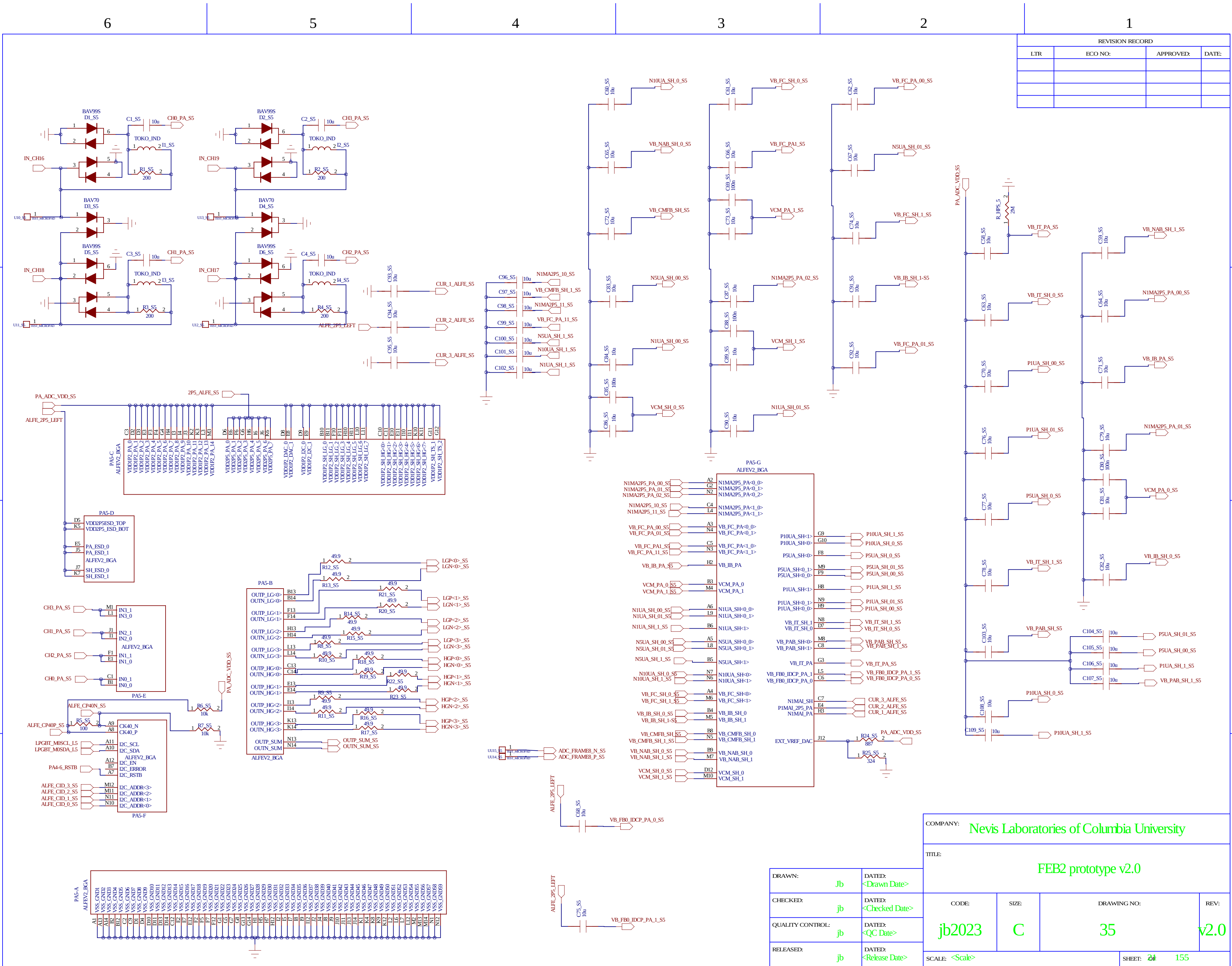


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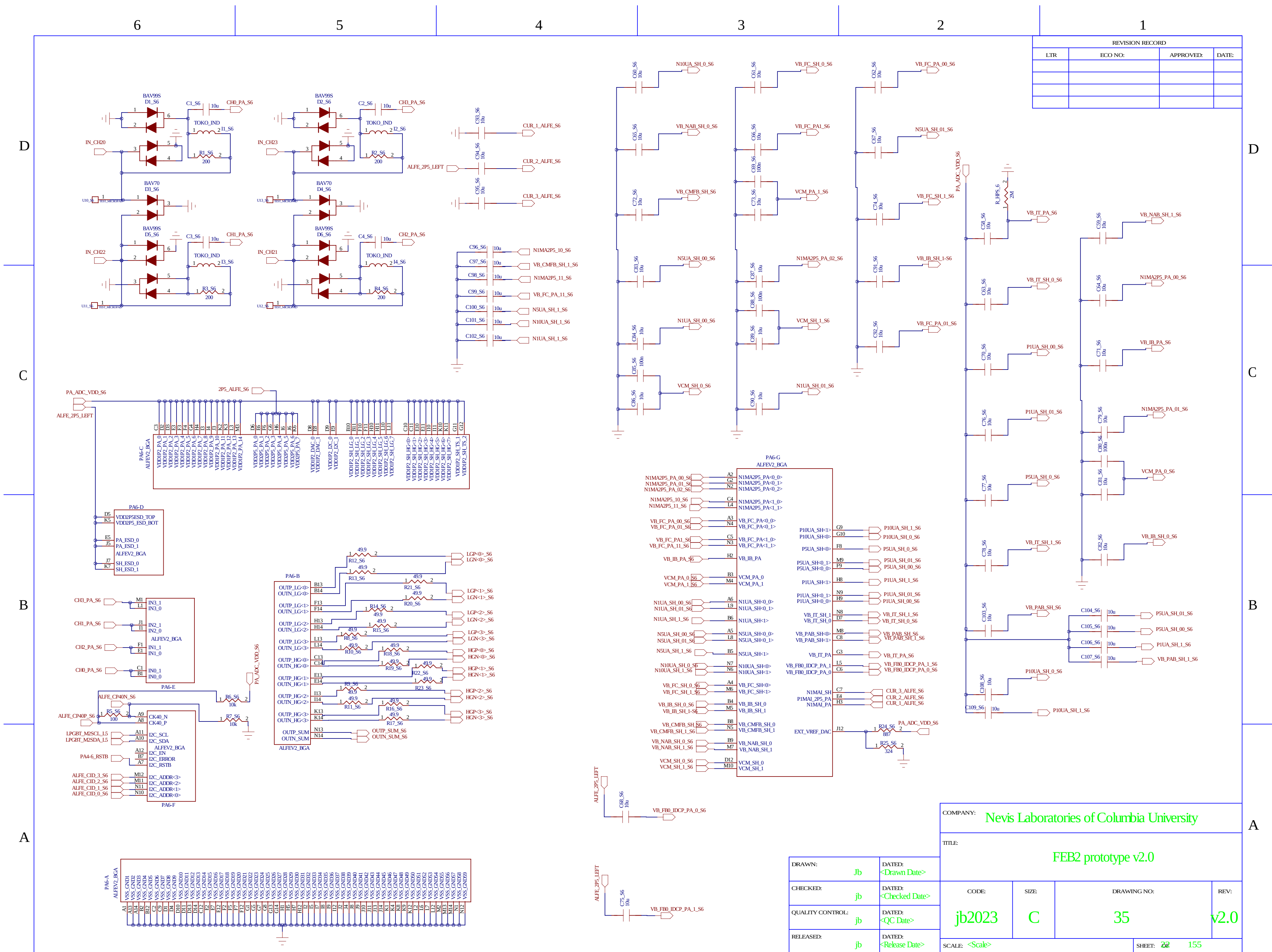
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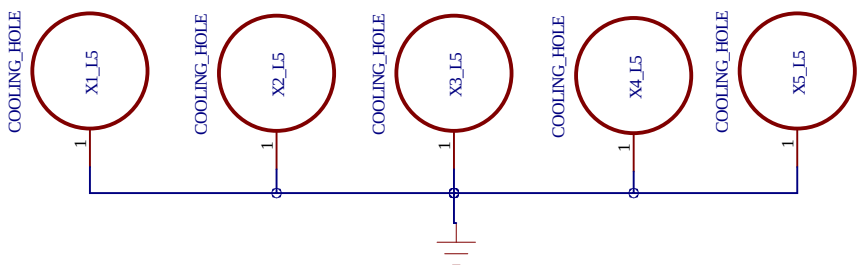
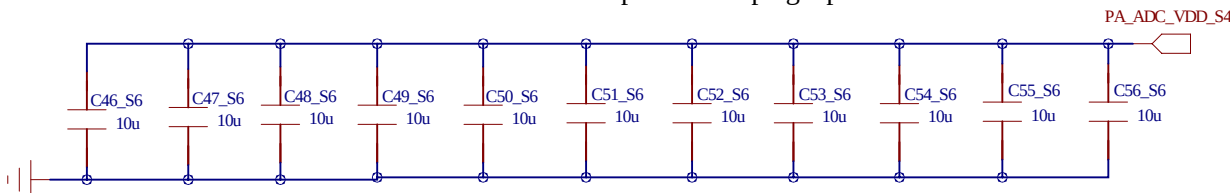
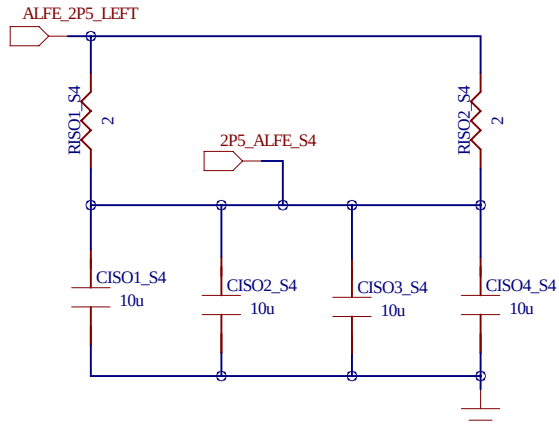
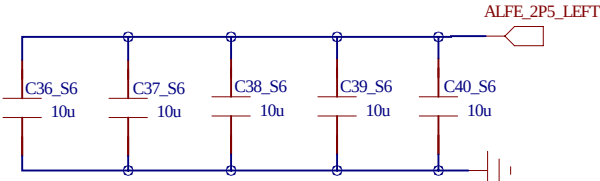
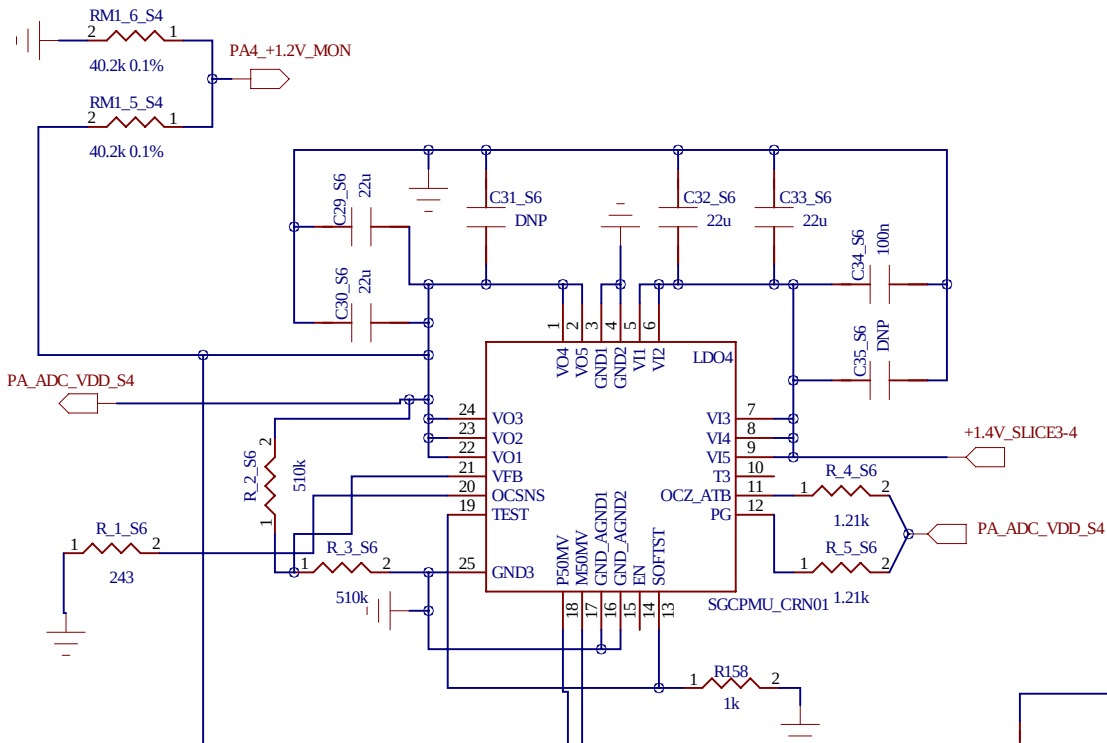
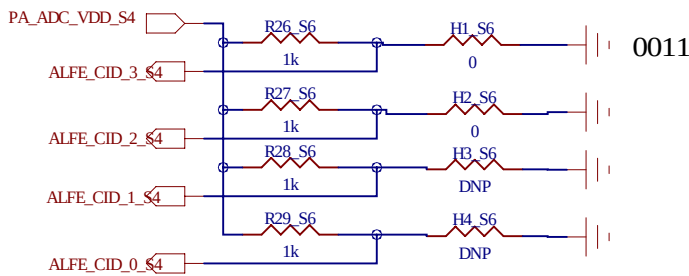
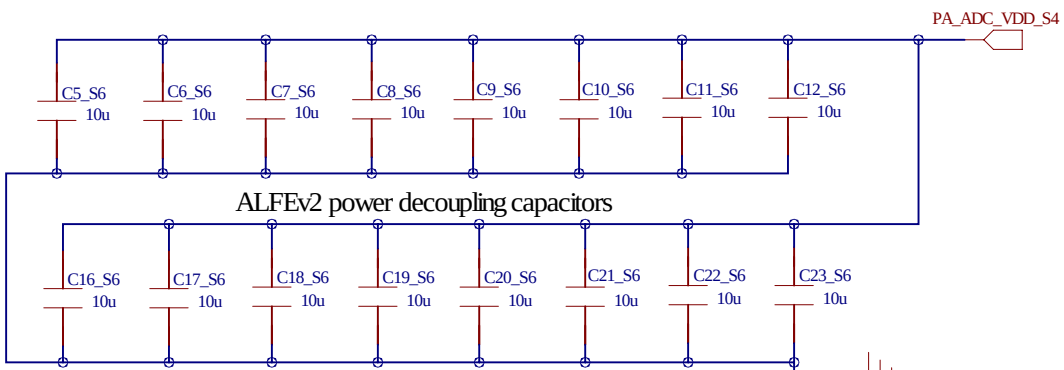
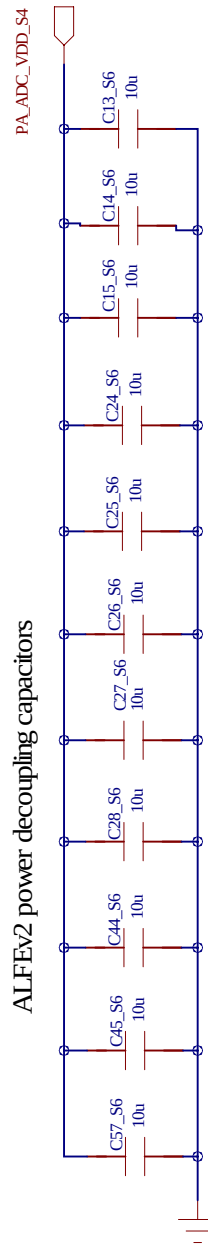
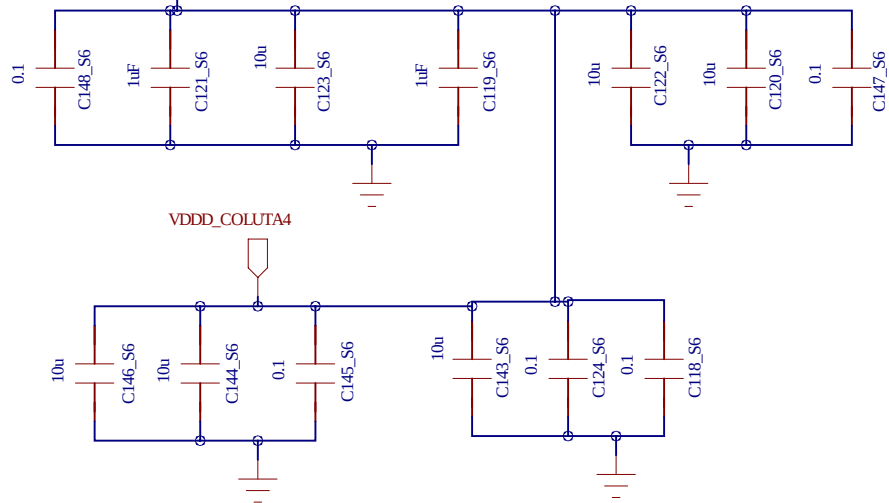
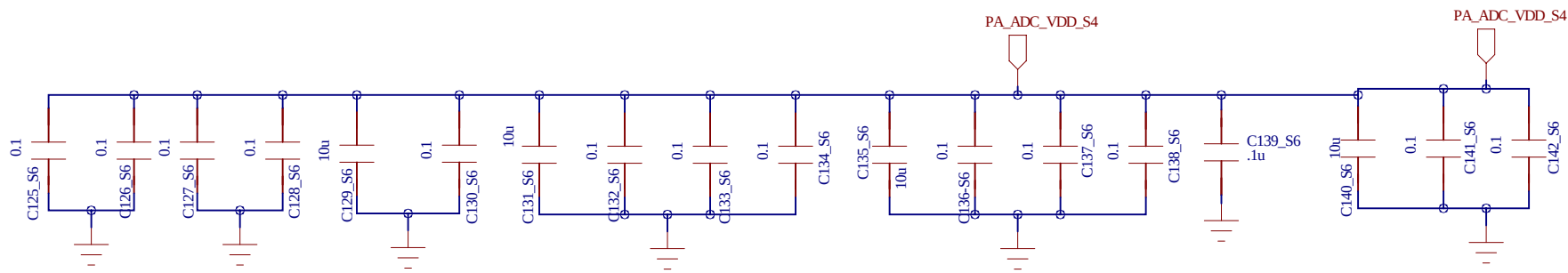
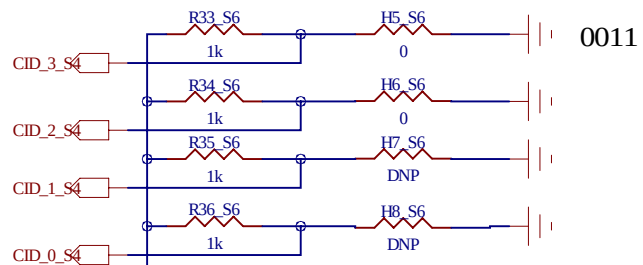
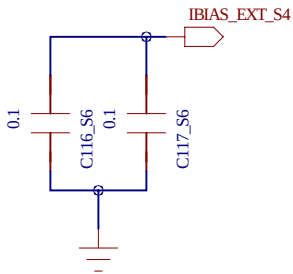
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REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



COMPANY: Nevis Laboratories of Columbia University			
TITLE: FEB2 prototype v2.0			
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REVISION RECORD

LTR	ECO NO:	APPROVED:	DATE:

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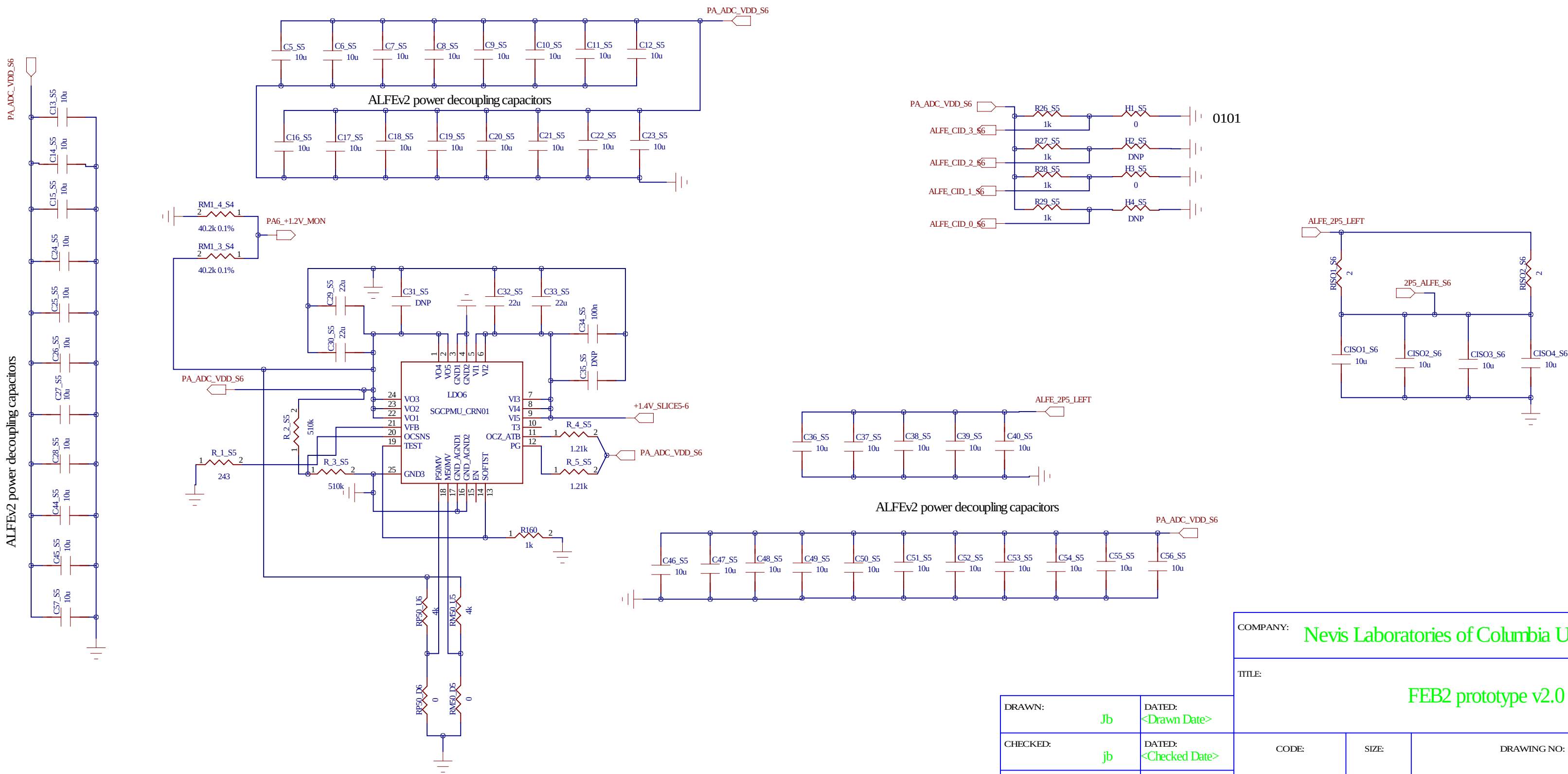
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COMPANY: Nevis Laboratories of Columbia University

TITLE: FEB2 prototype v2.0

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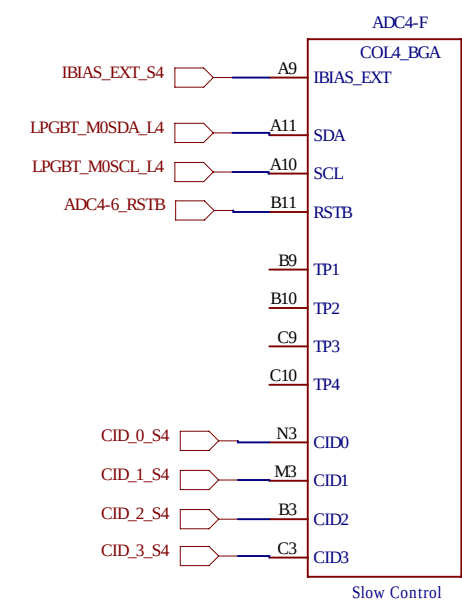
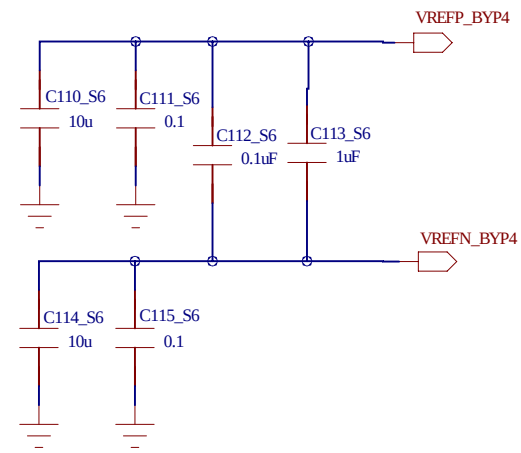
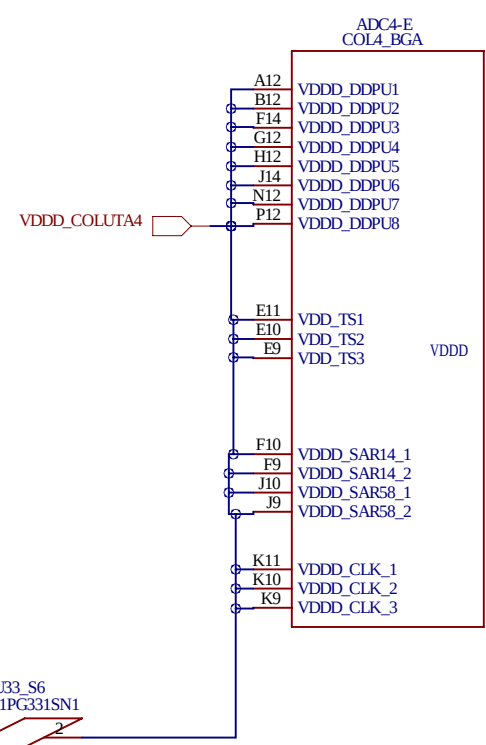
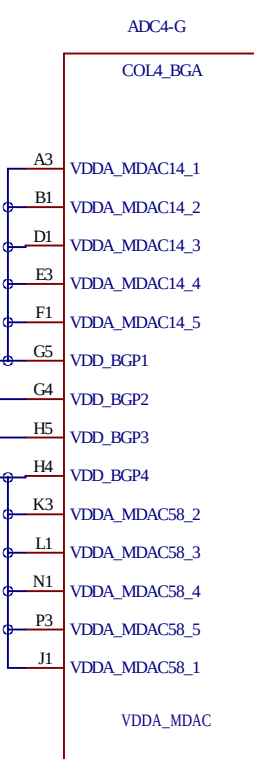
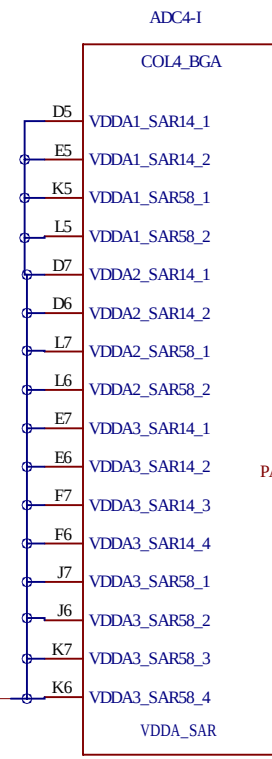
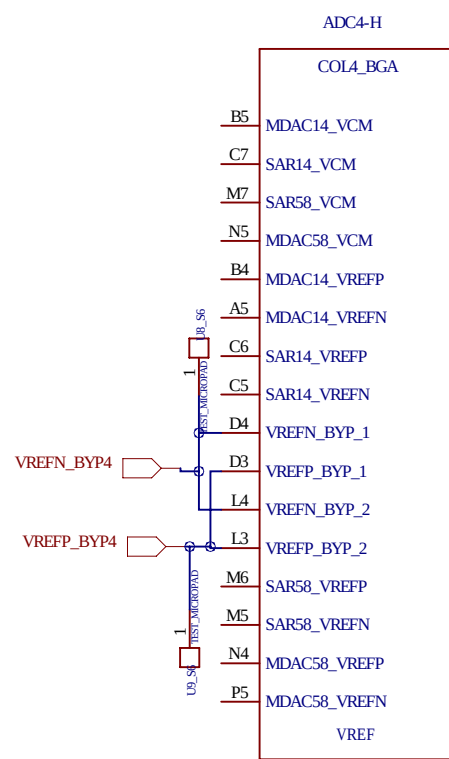
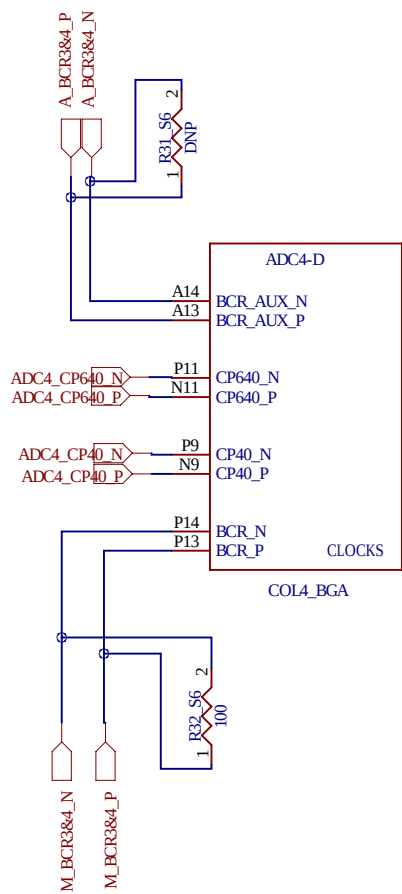
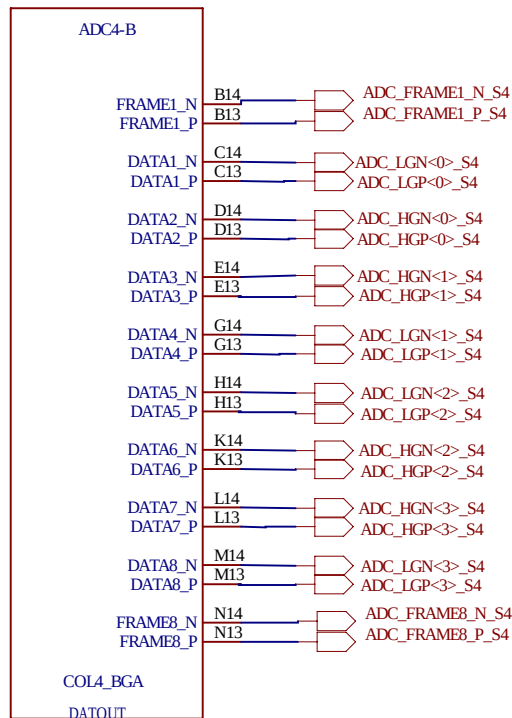
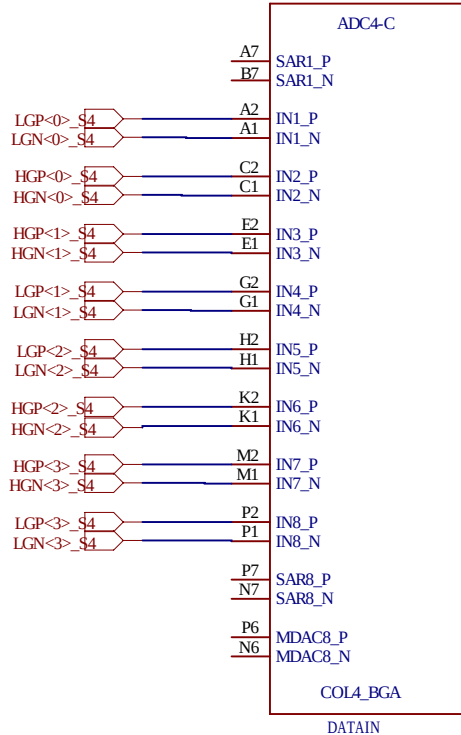
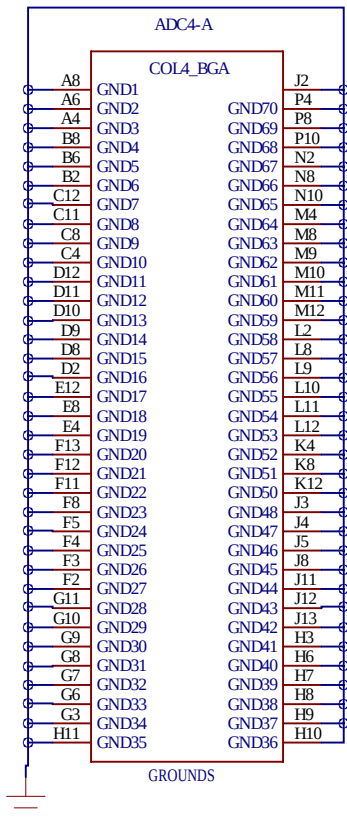
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TITLE: FEB2 prototype v2.0

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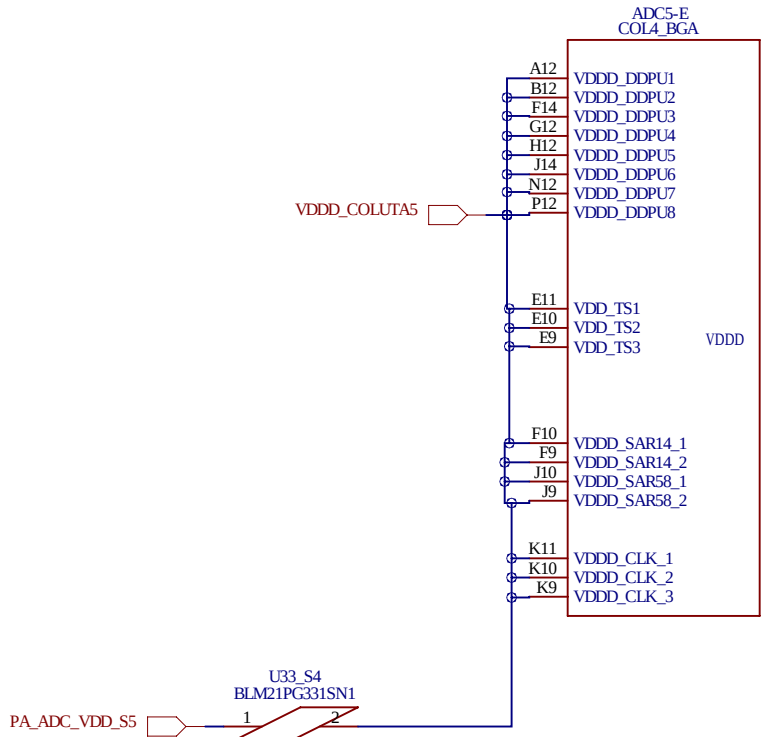
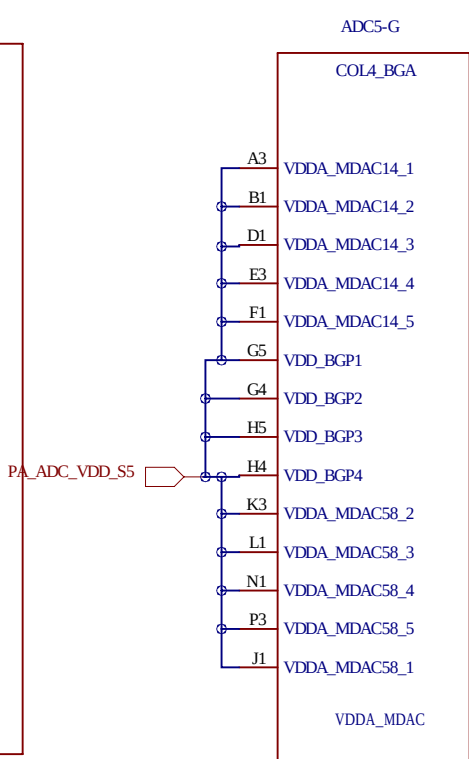
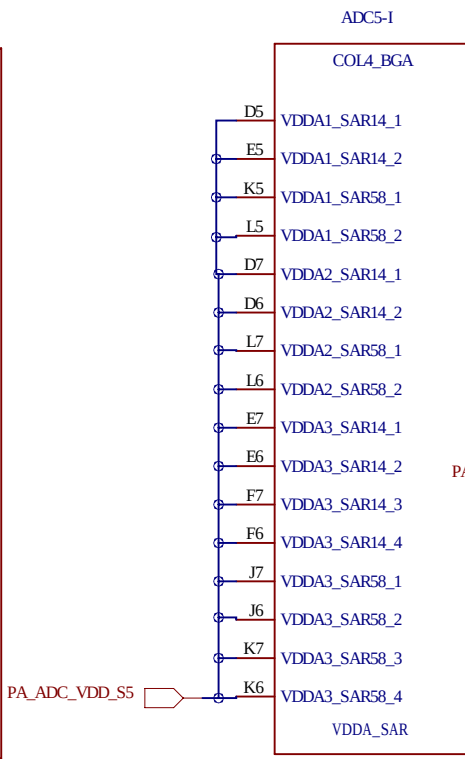
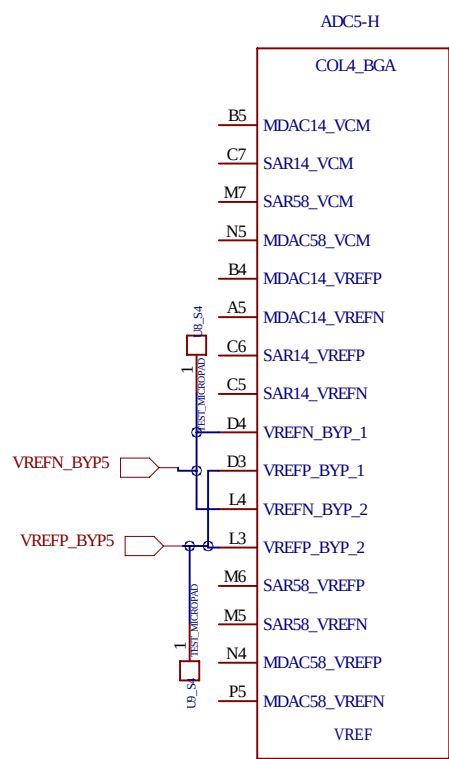
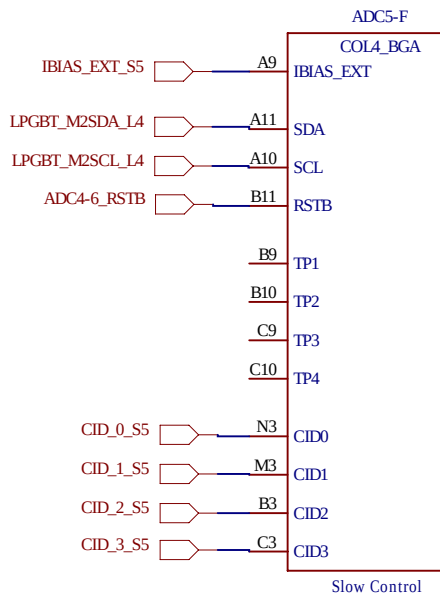
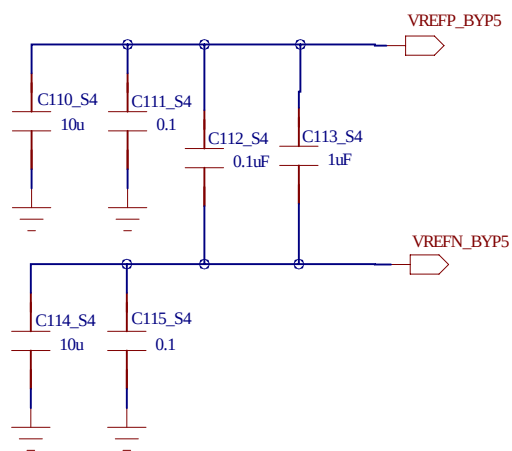
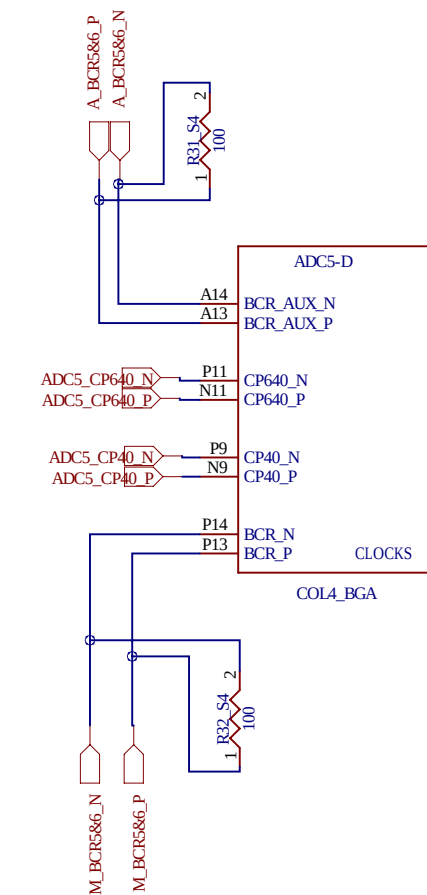
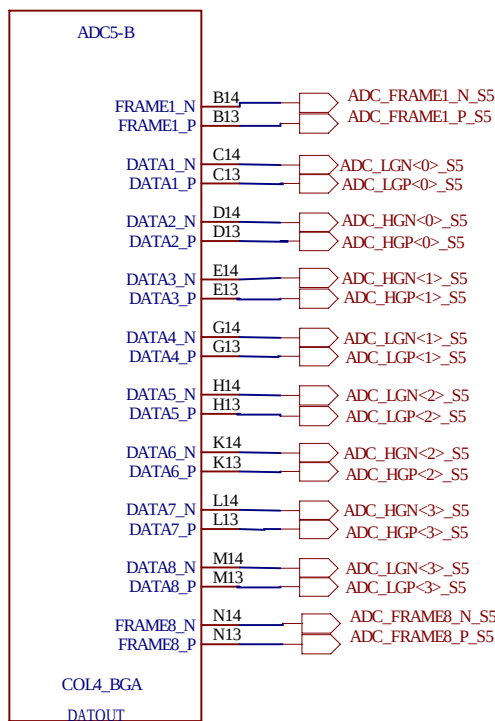
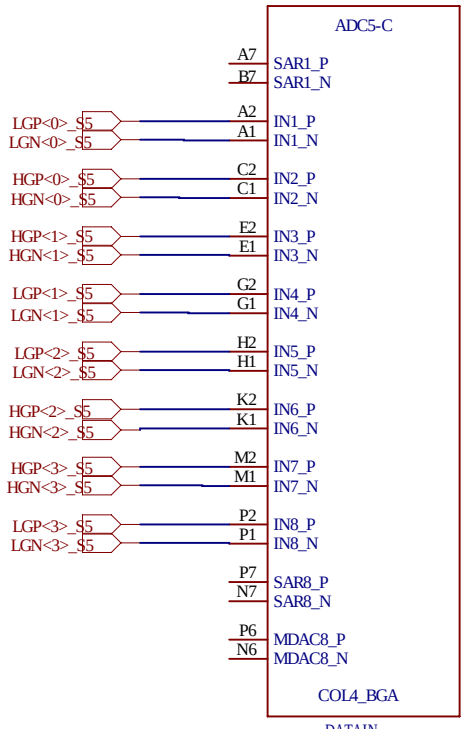
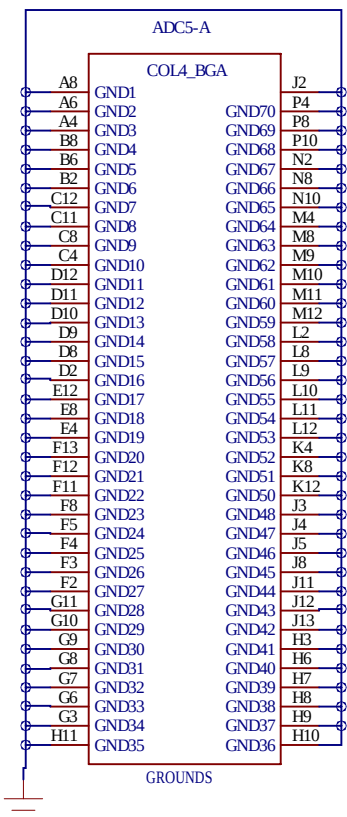
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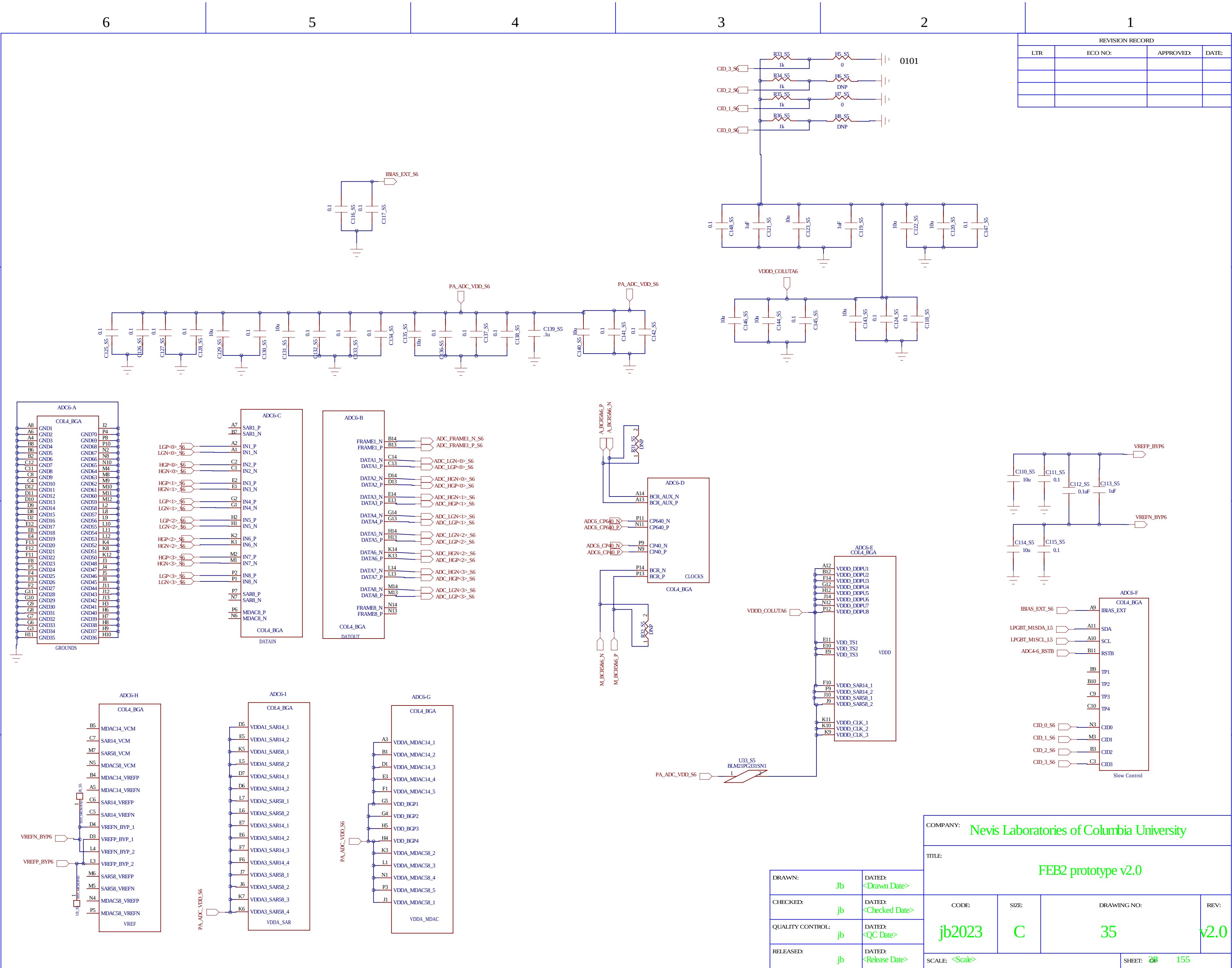
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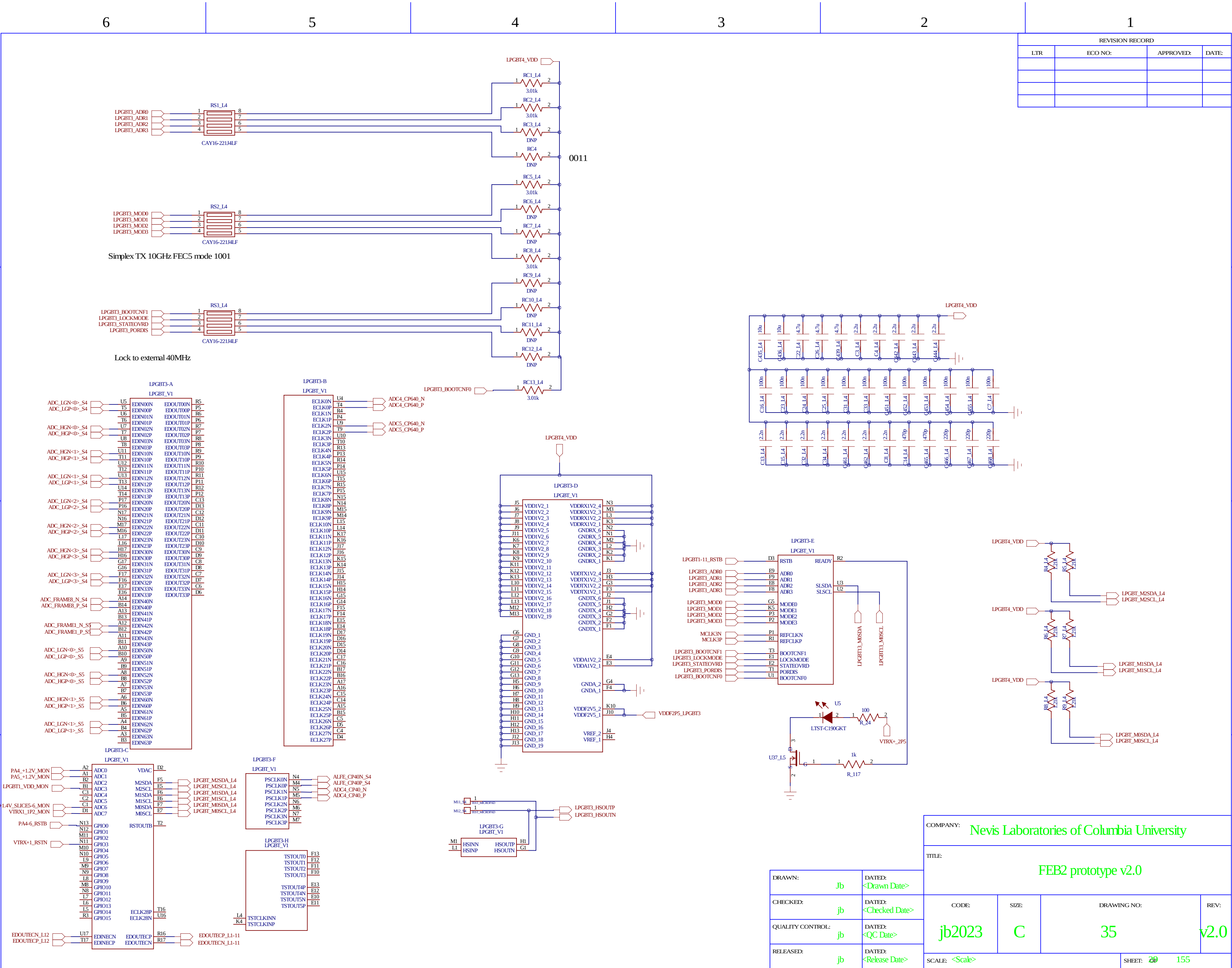


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COMPANY: Nevis Laboratories of Columbia University			
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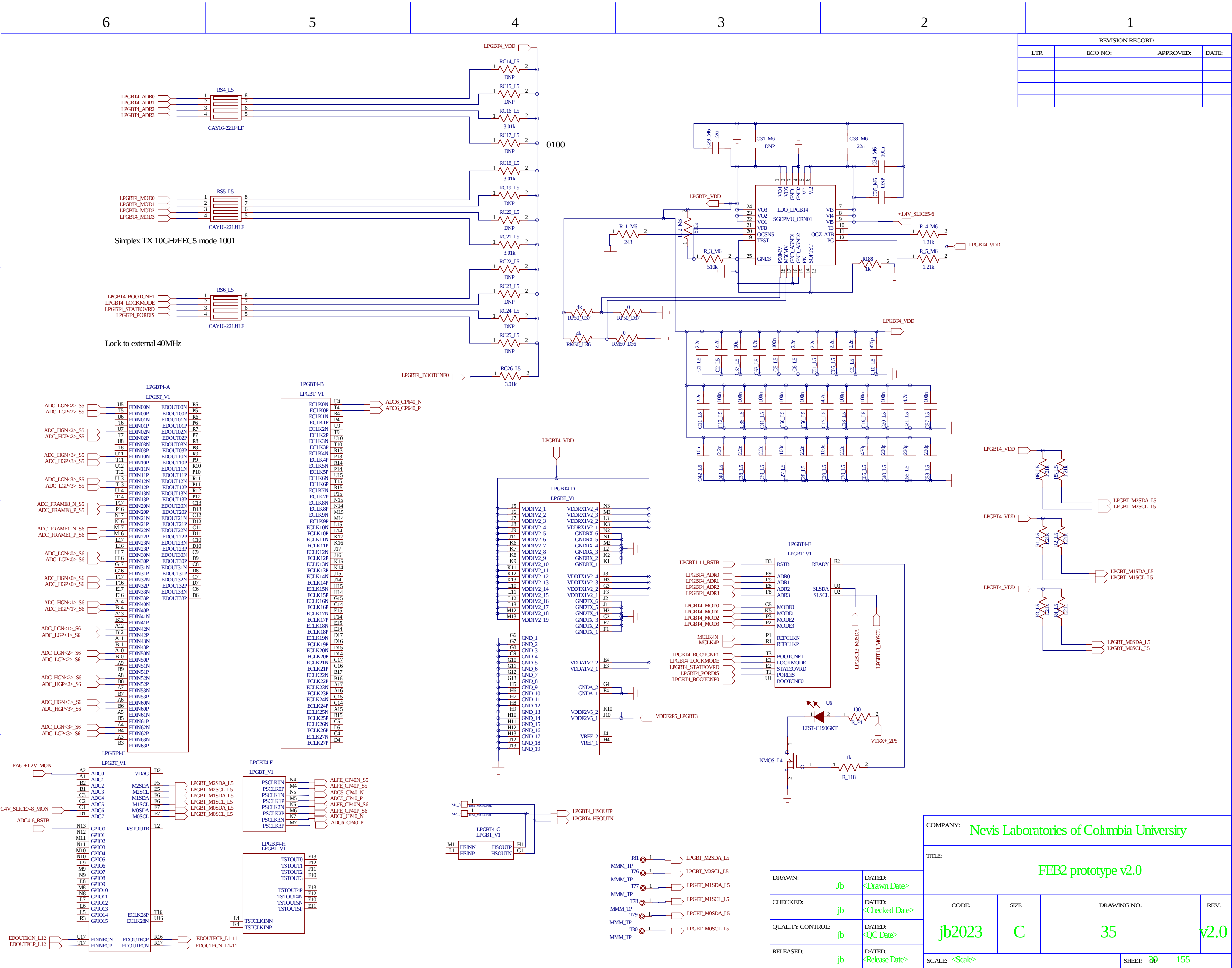
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COMPANY: Nevis Laboratories of Columbia University

TITLE: FEB2 prototype v2.0

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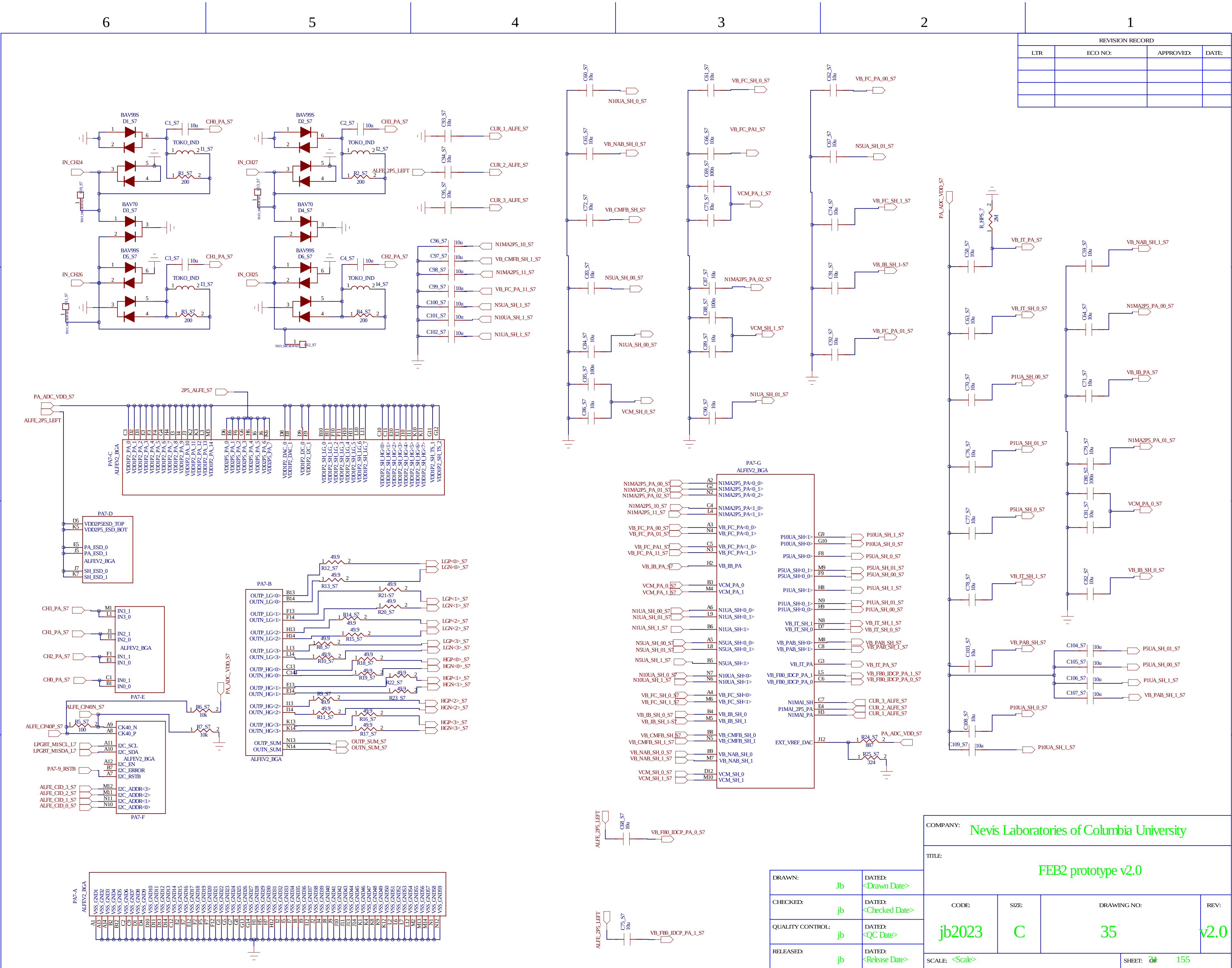


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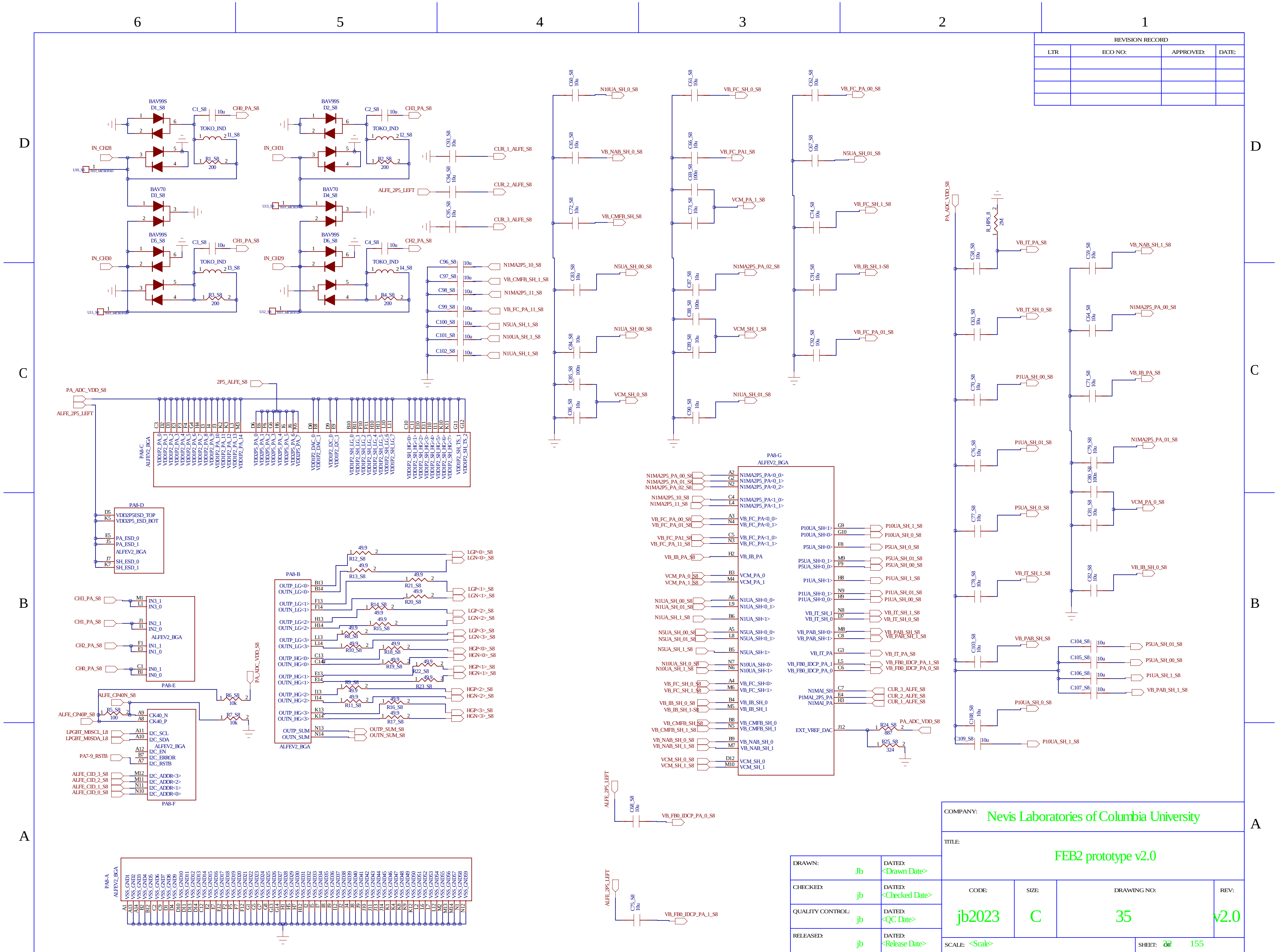
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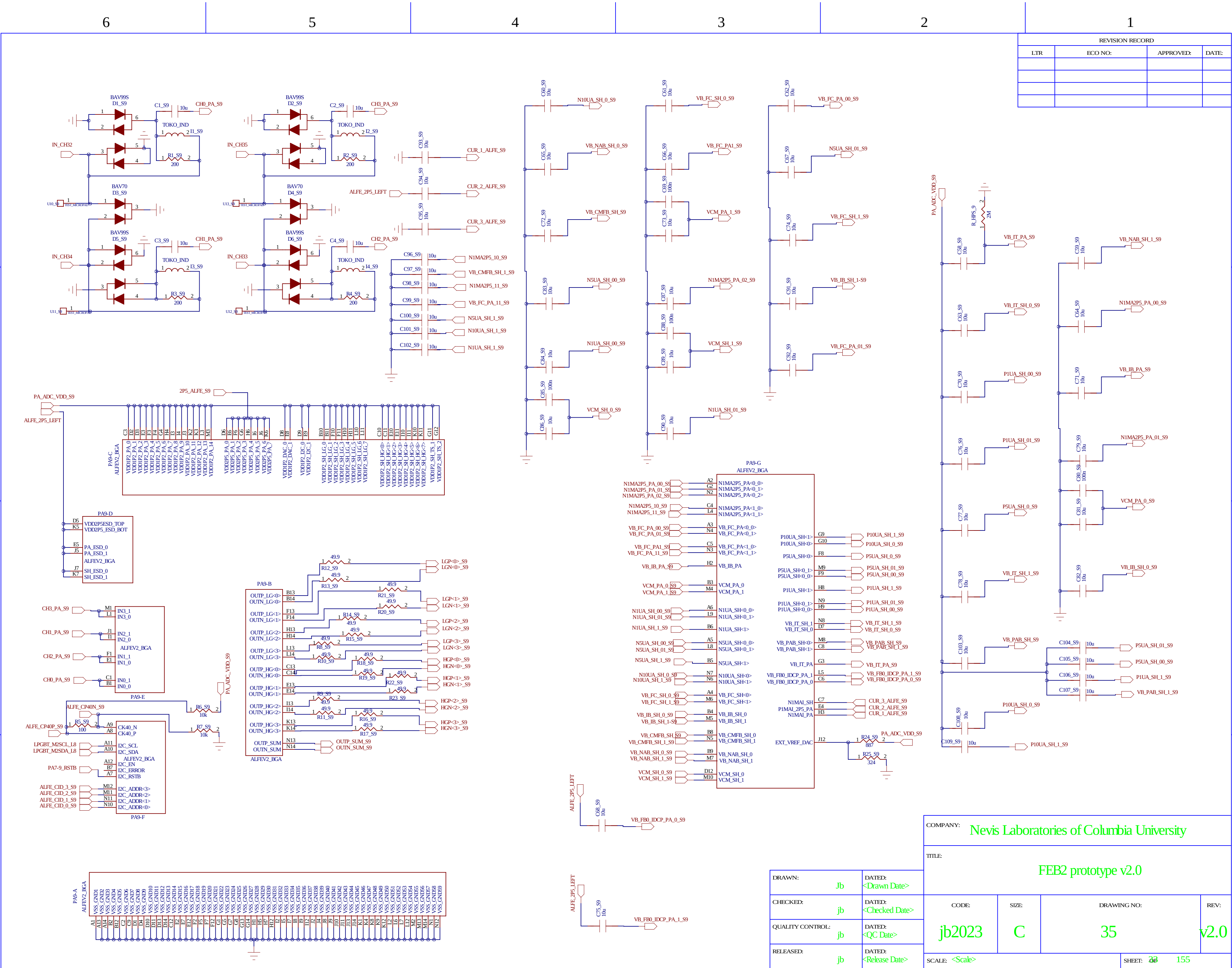
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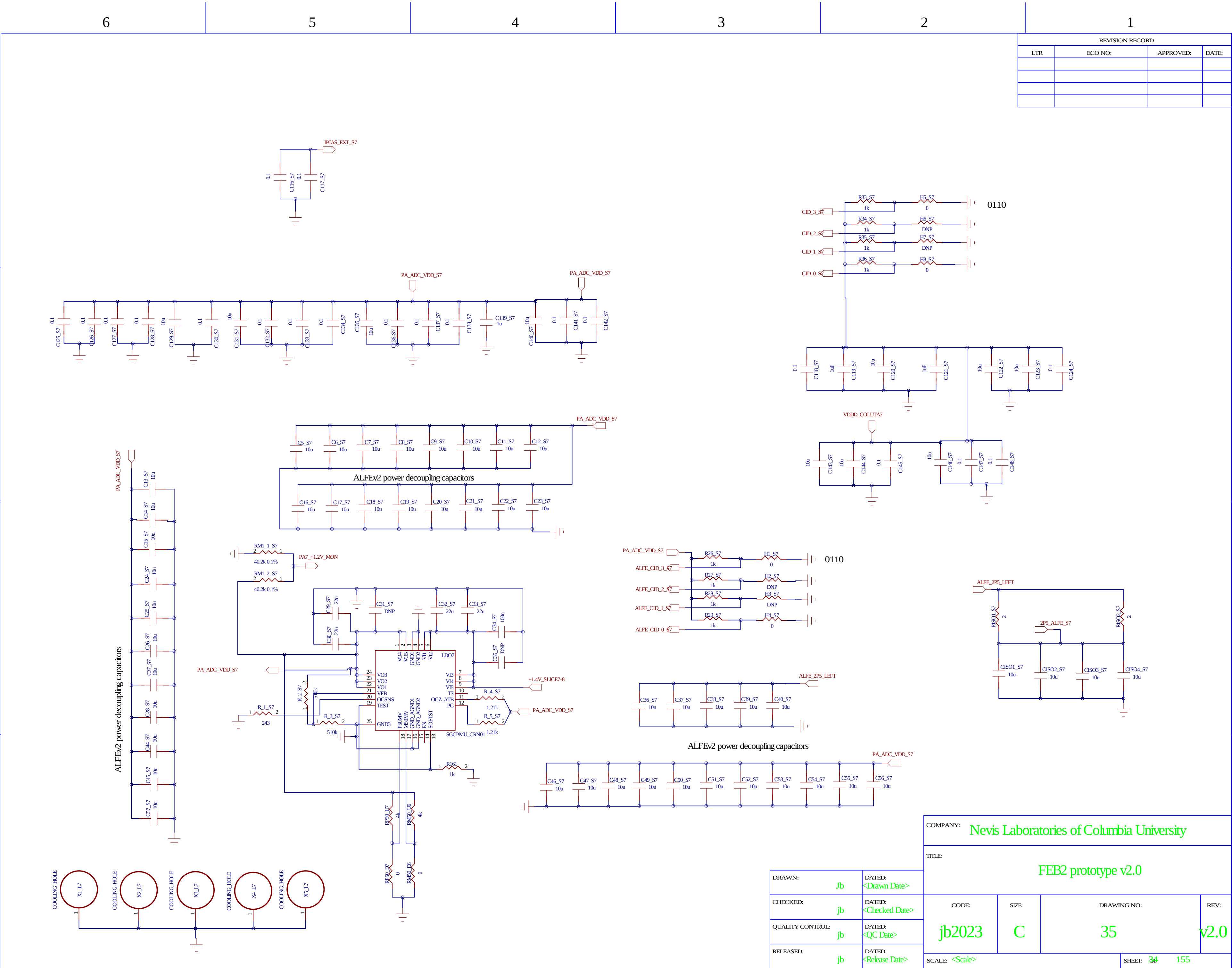
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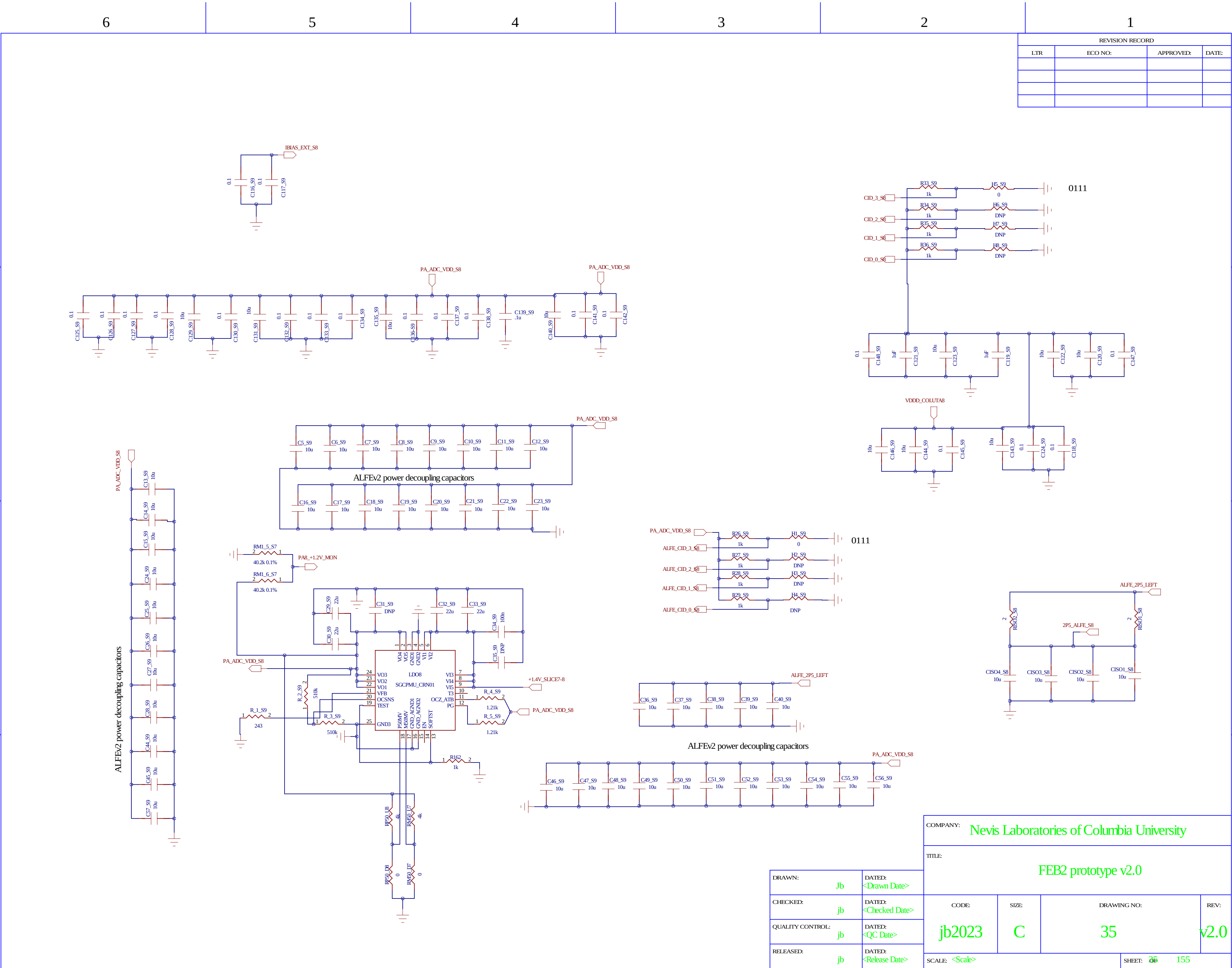
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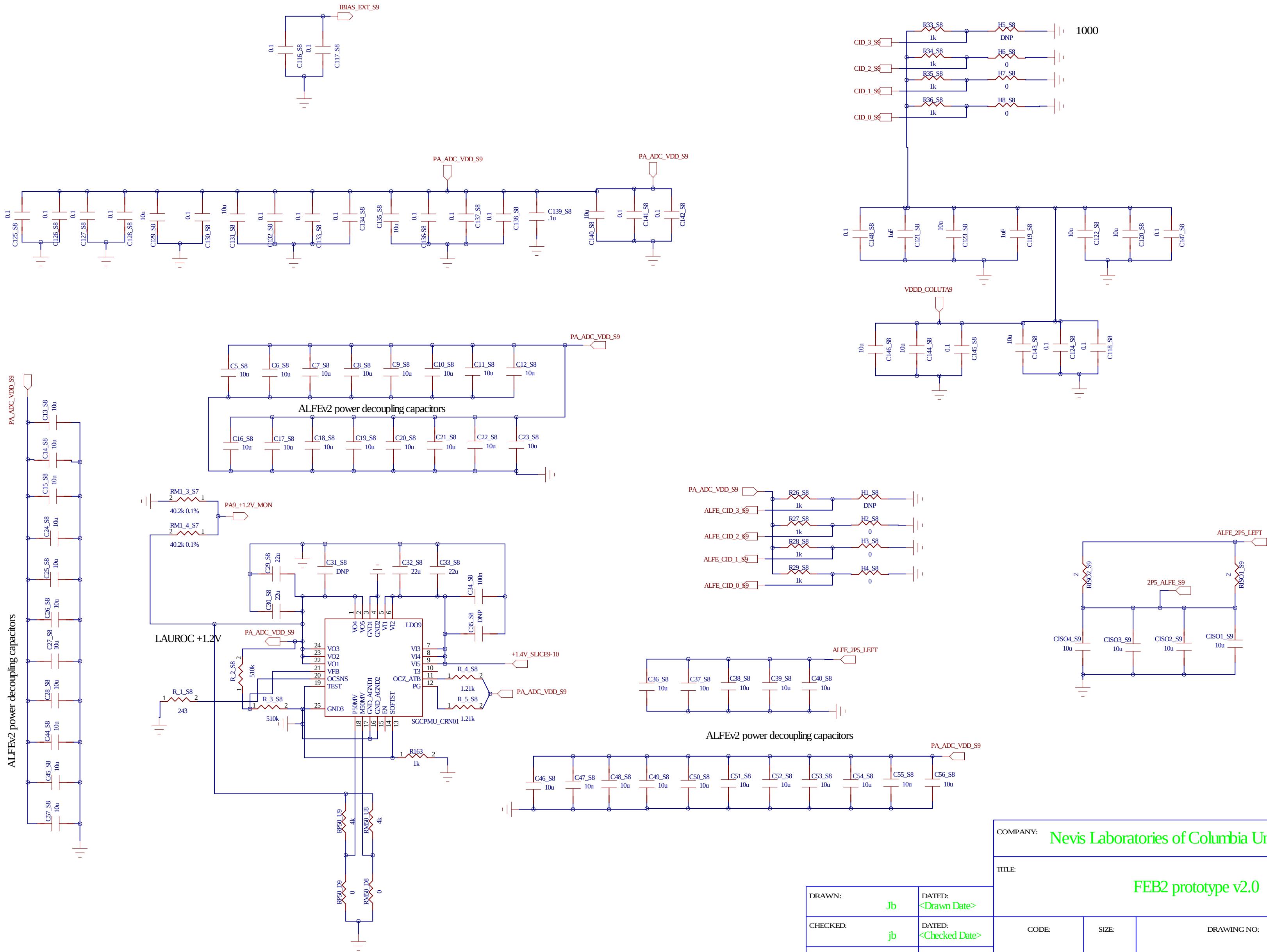
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REVISION RECORD			
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COMPANY: Nevis Laboratories of Columbia University

TITLE: FEB2 prototype v2.0

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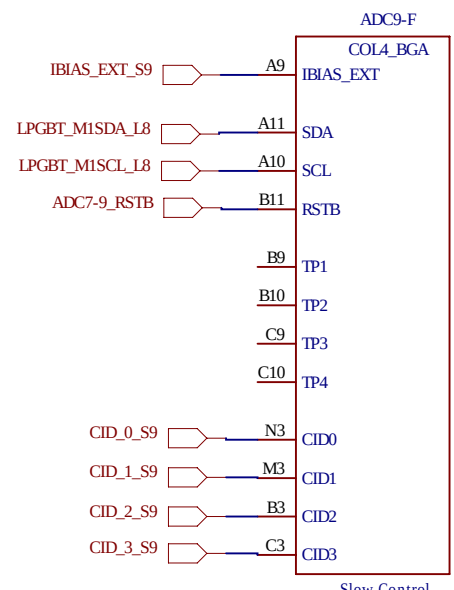
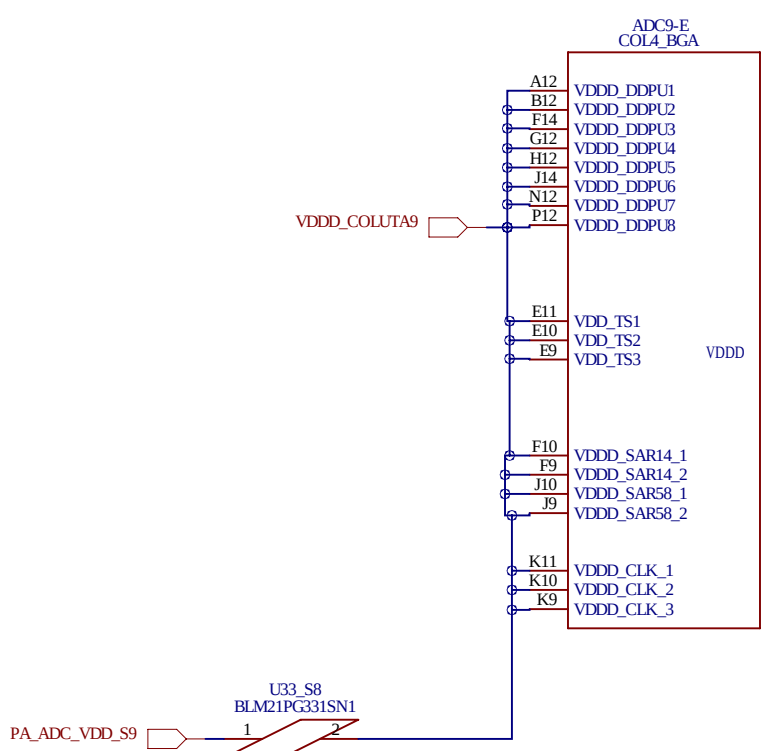
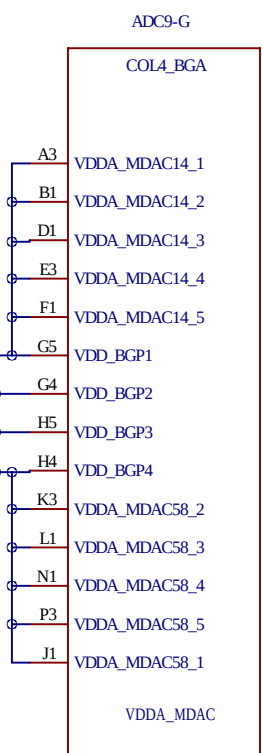
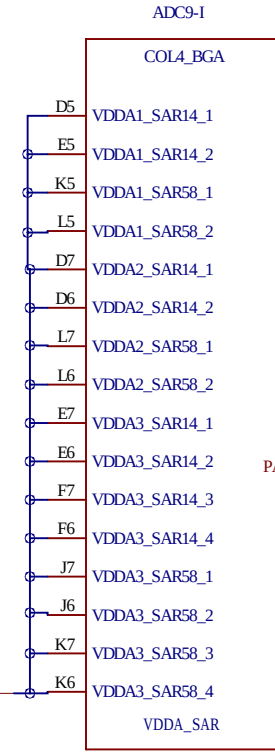
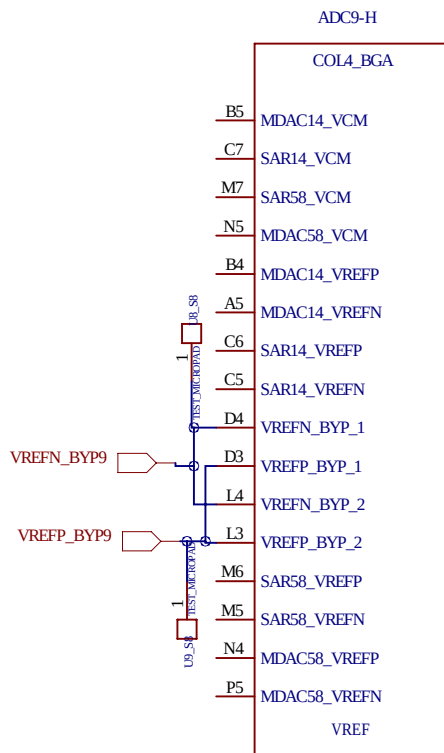
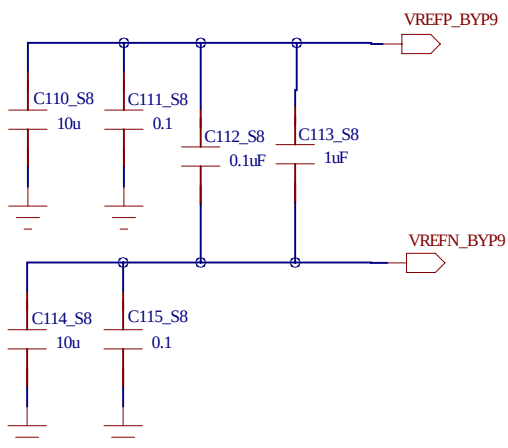
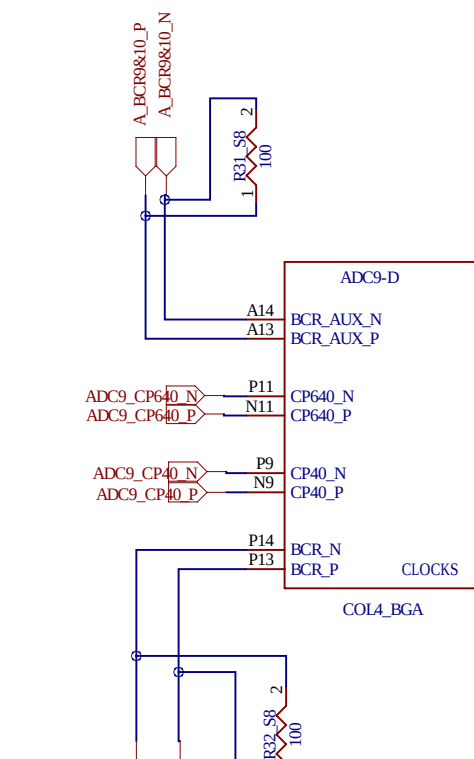
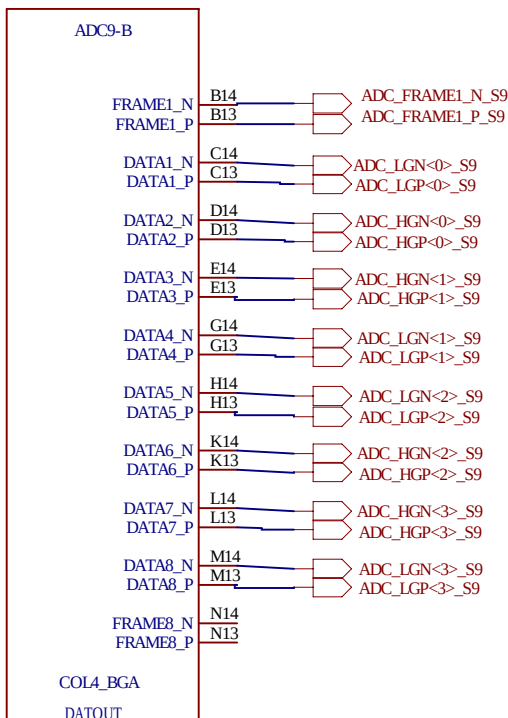
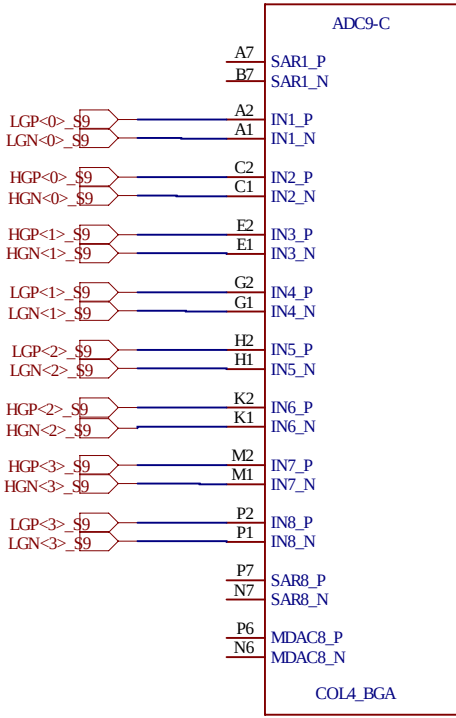
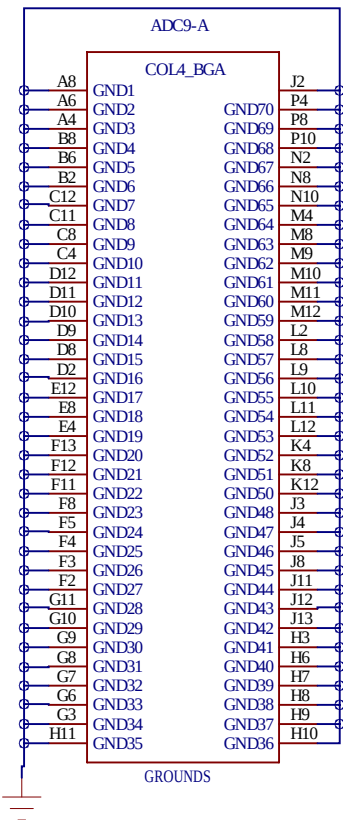
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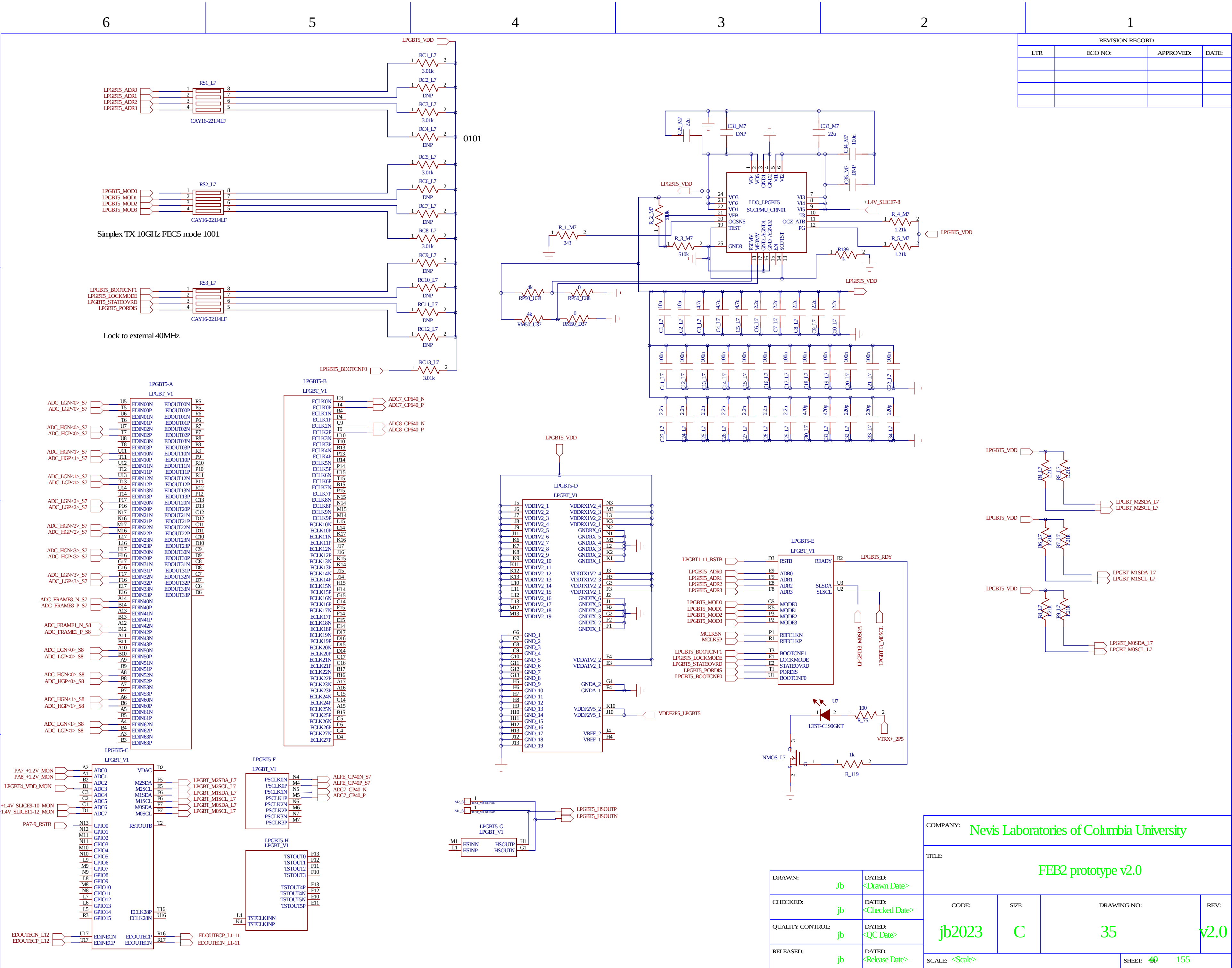
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LTR	ECO NO:	APPROVED:	DATE:



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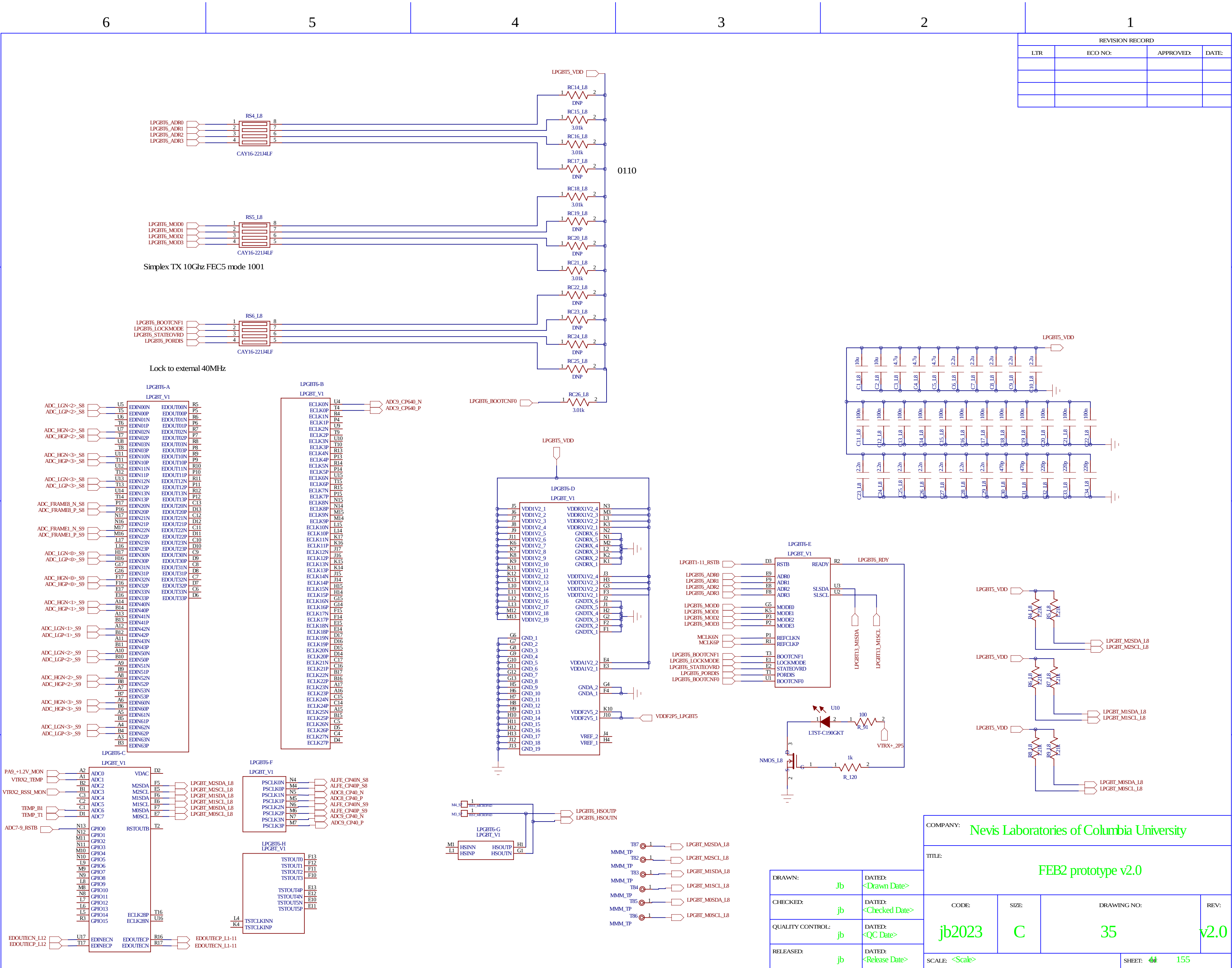
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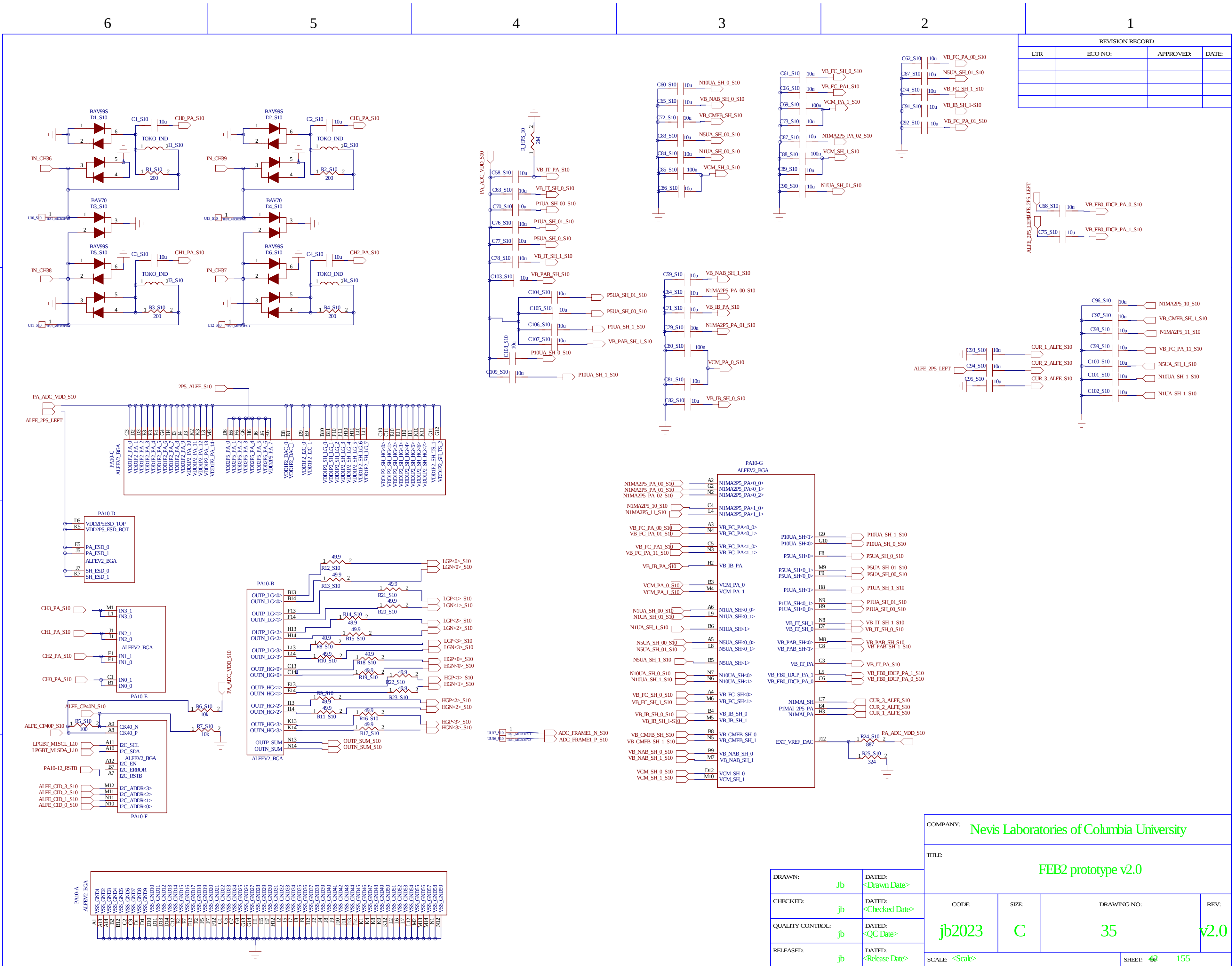
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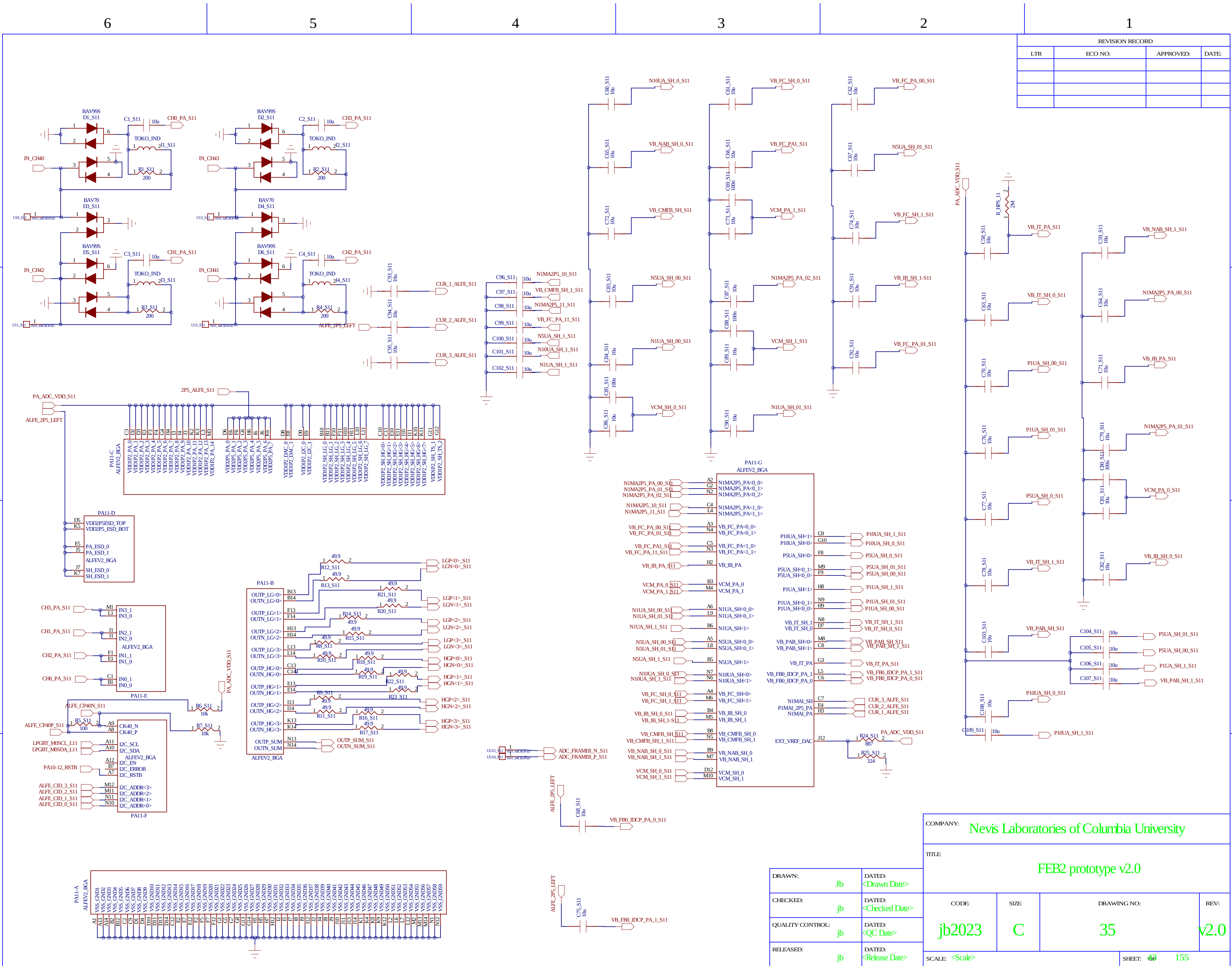
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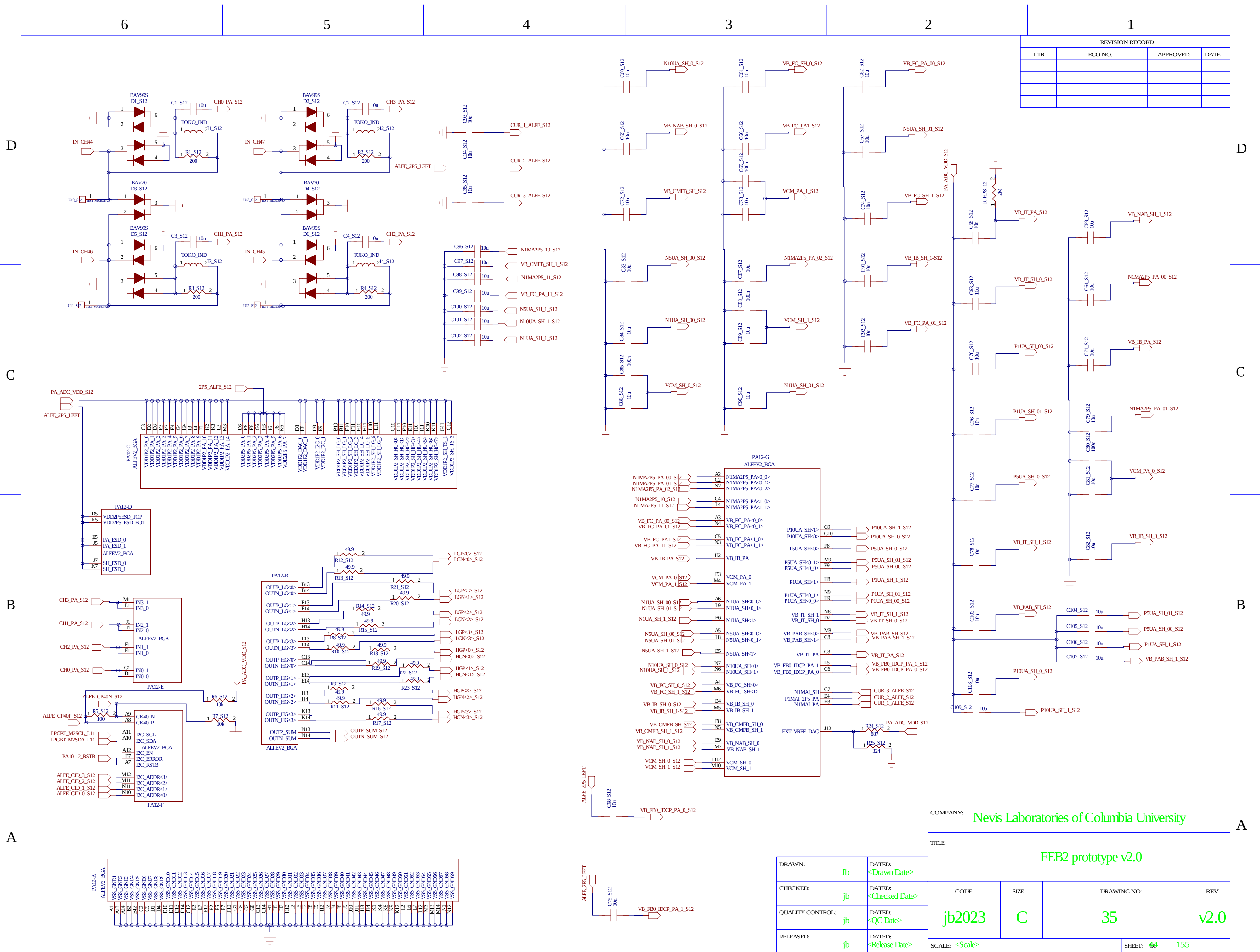
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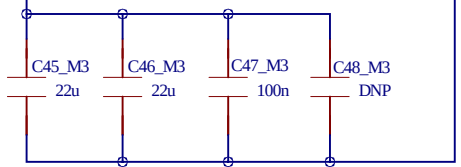
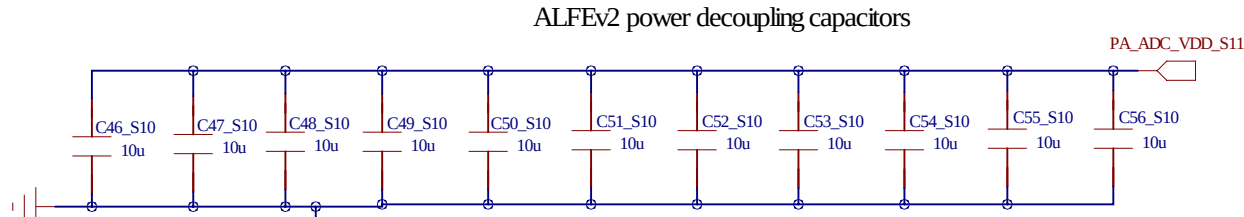
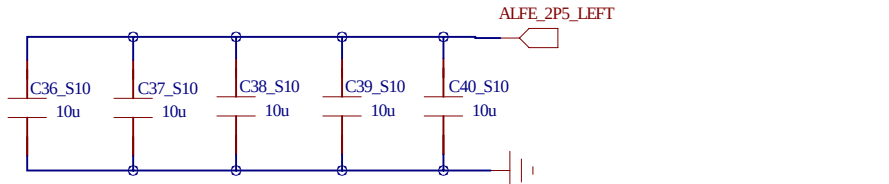
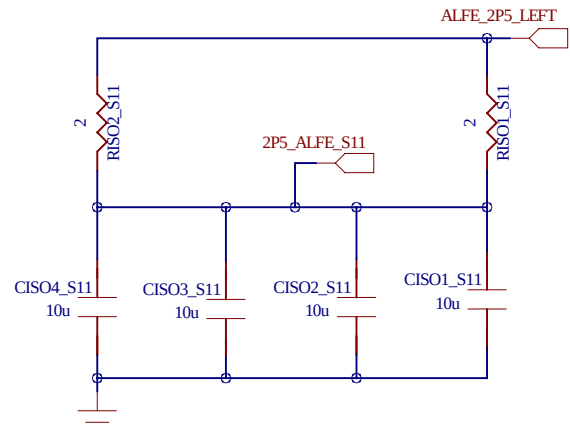
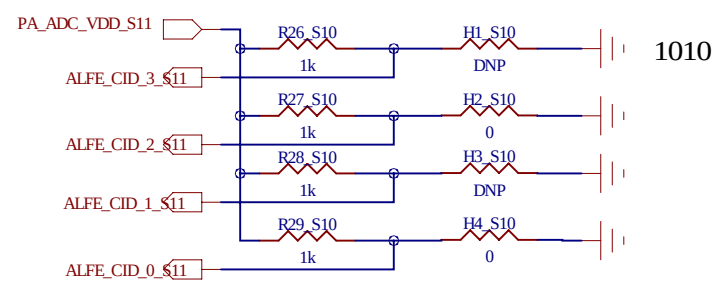
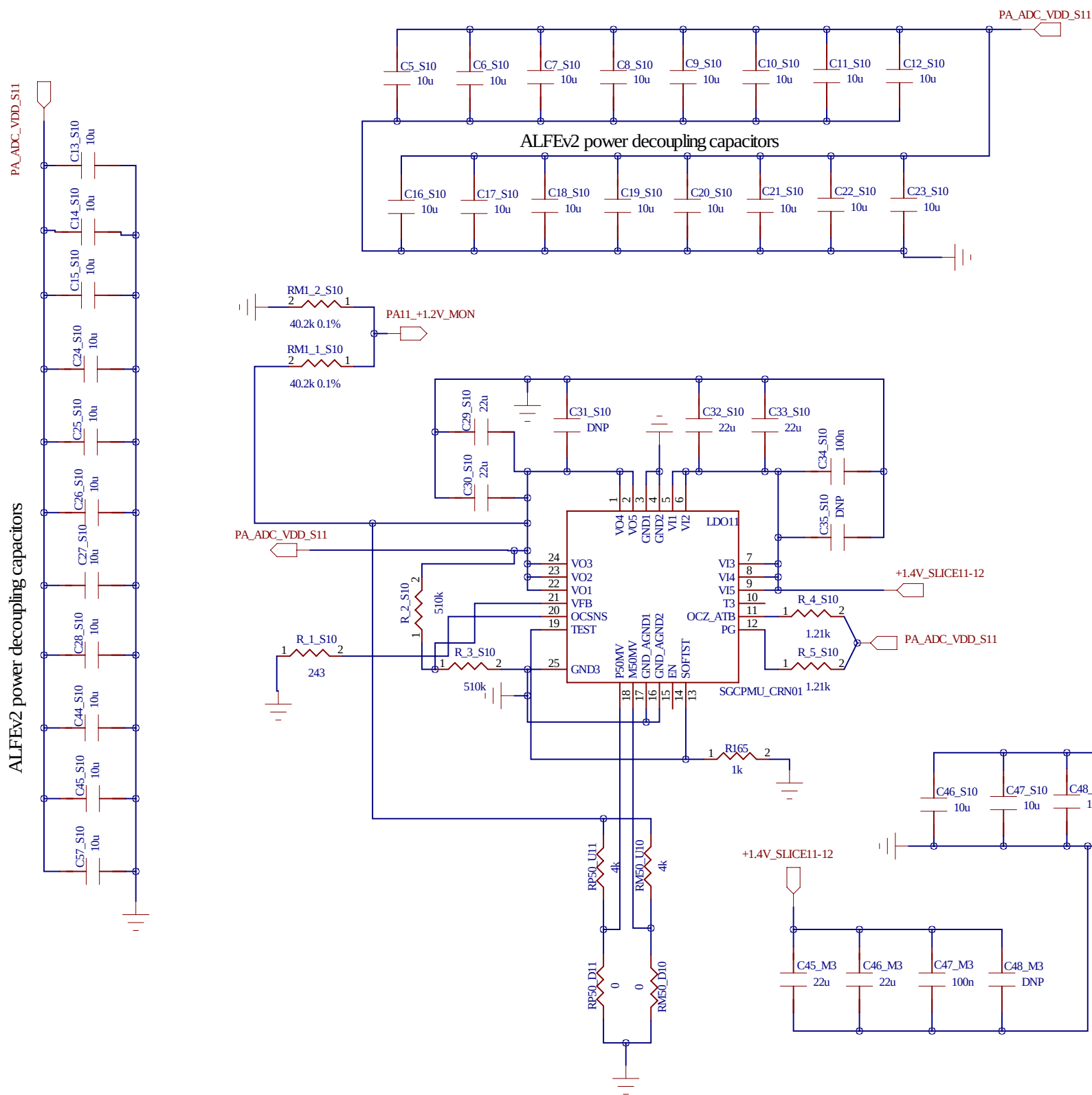
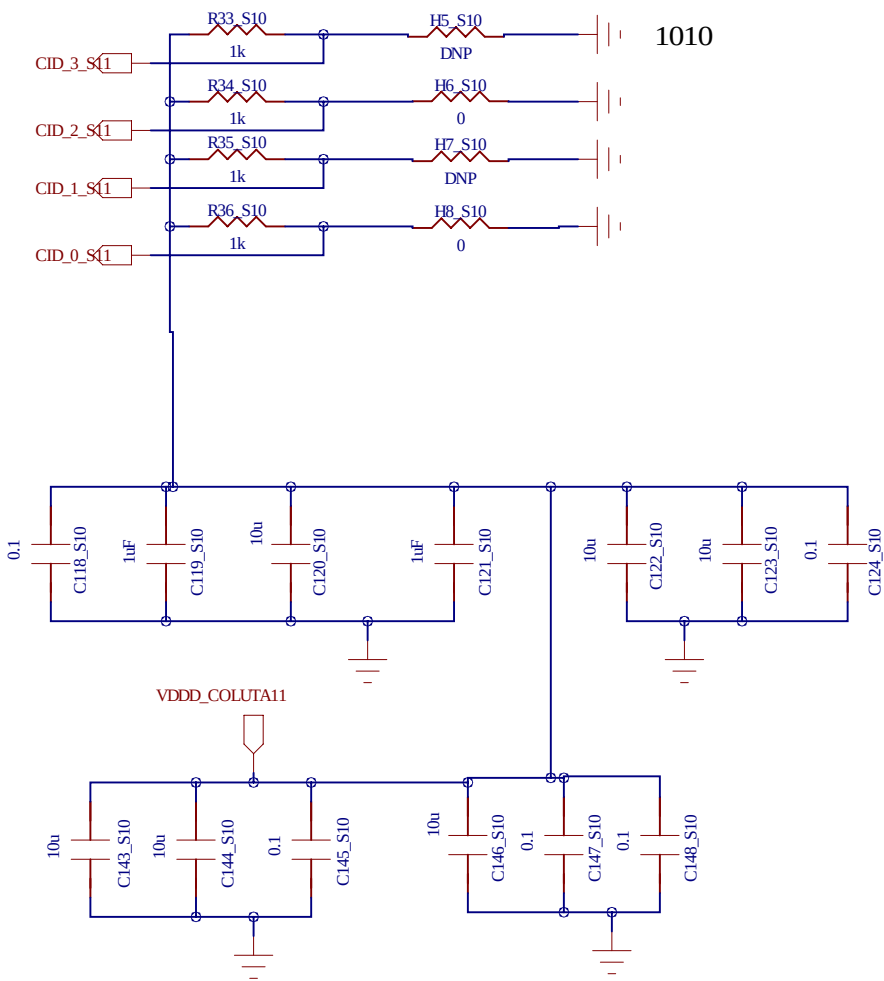
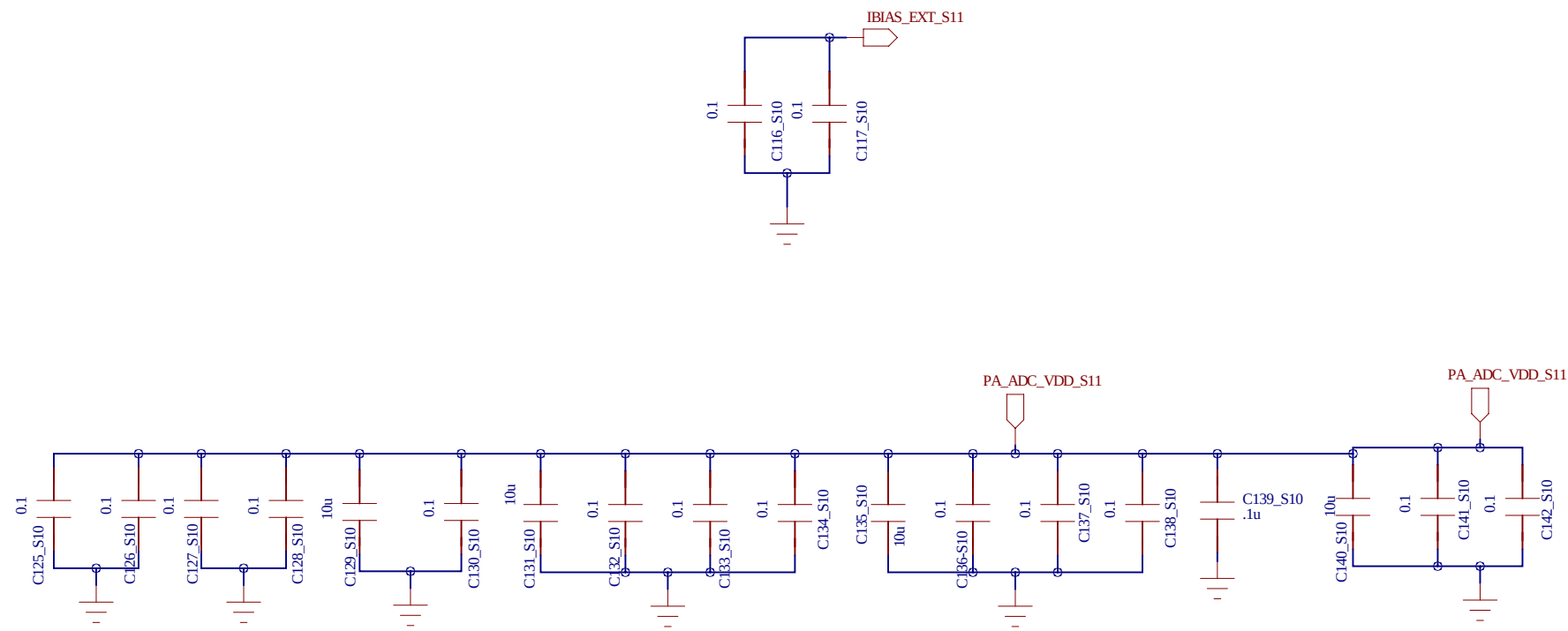
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REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



COMPANY: Nevis Laboratories of Columbia University			
TITLE: FEB2 prototype v2.0			
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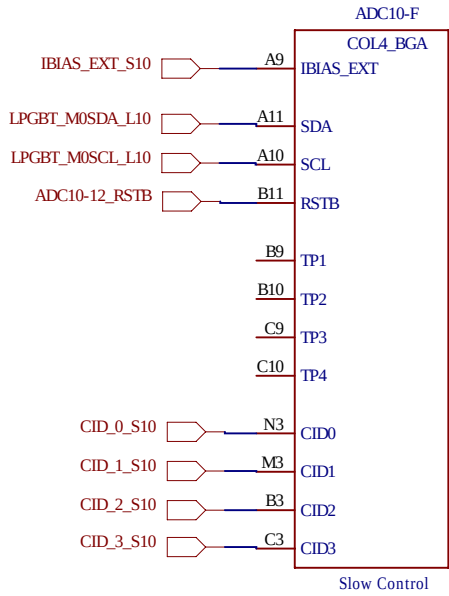
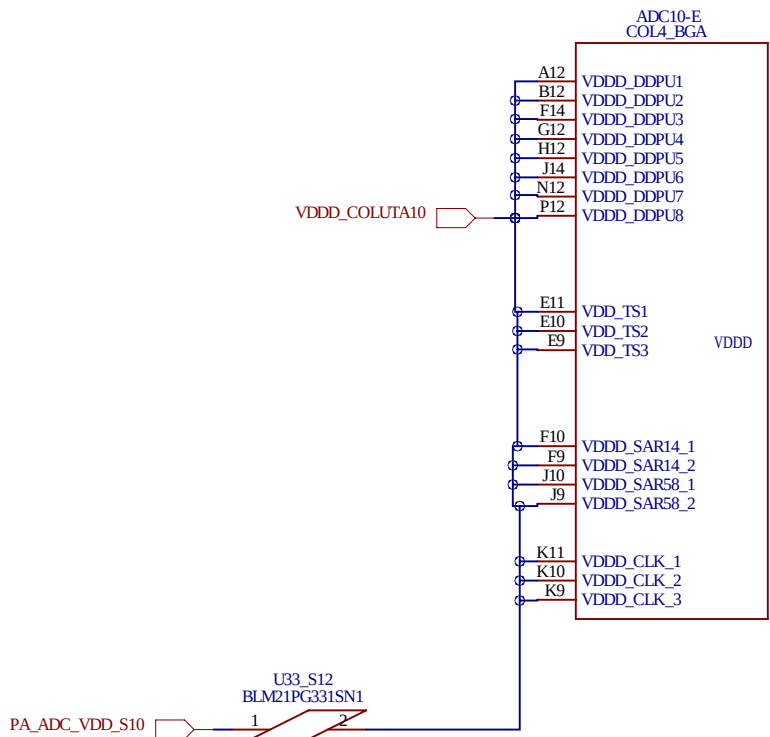
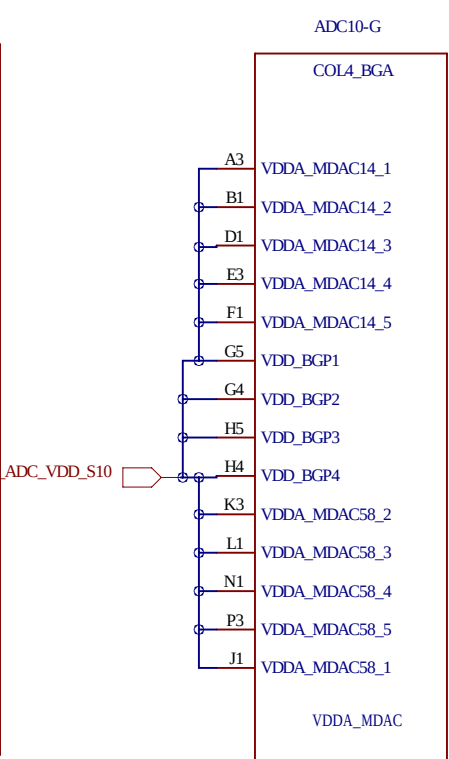
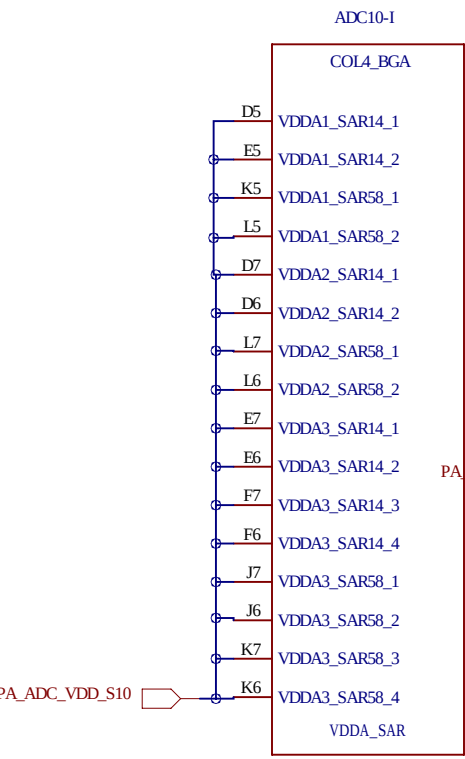
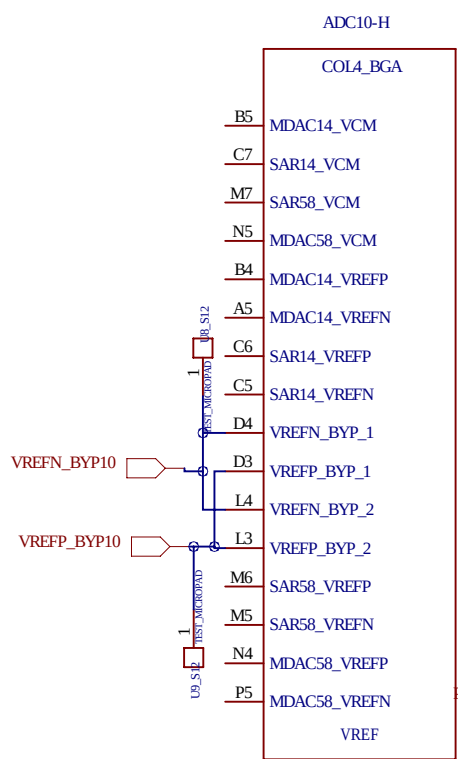
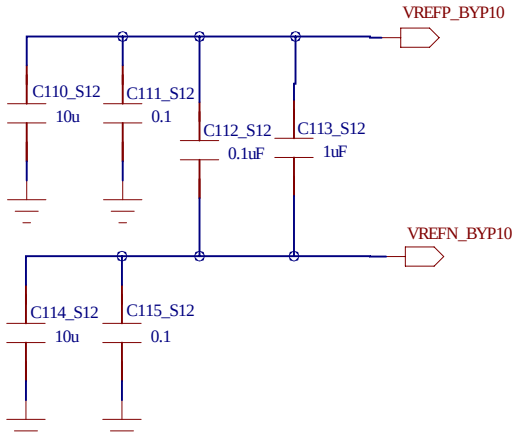
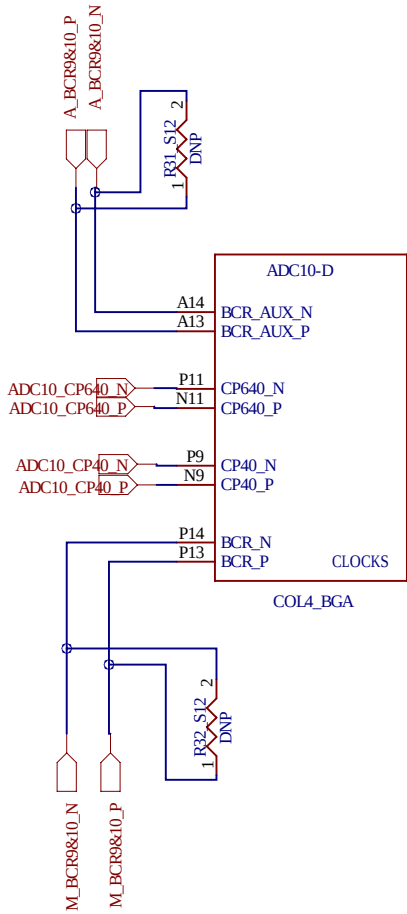
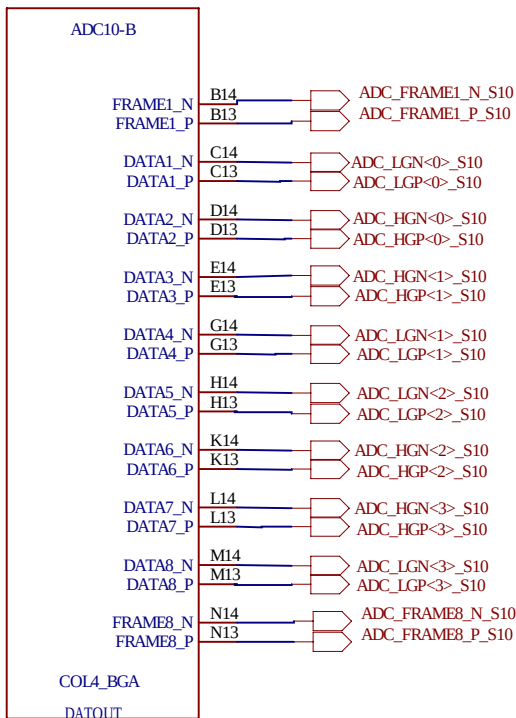
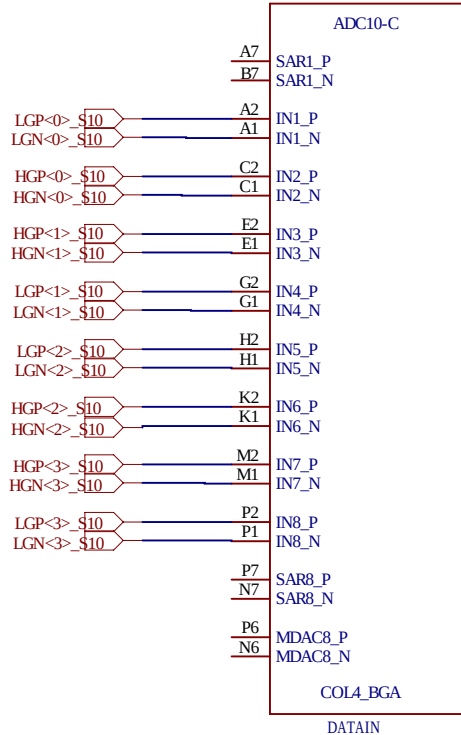
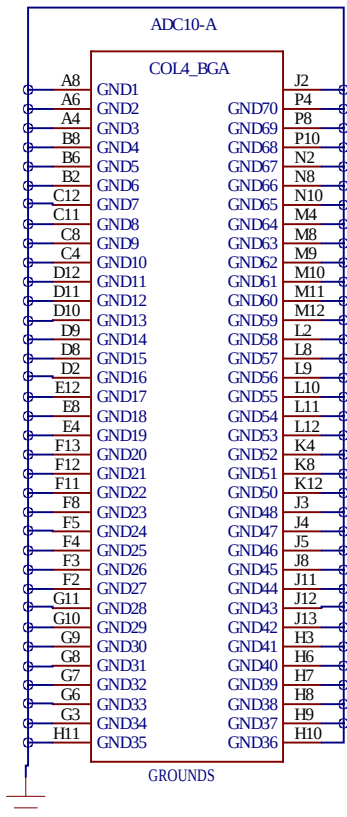
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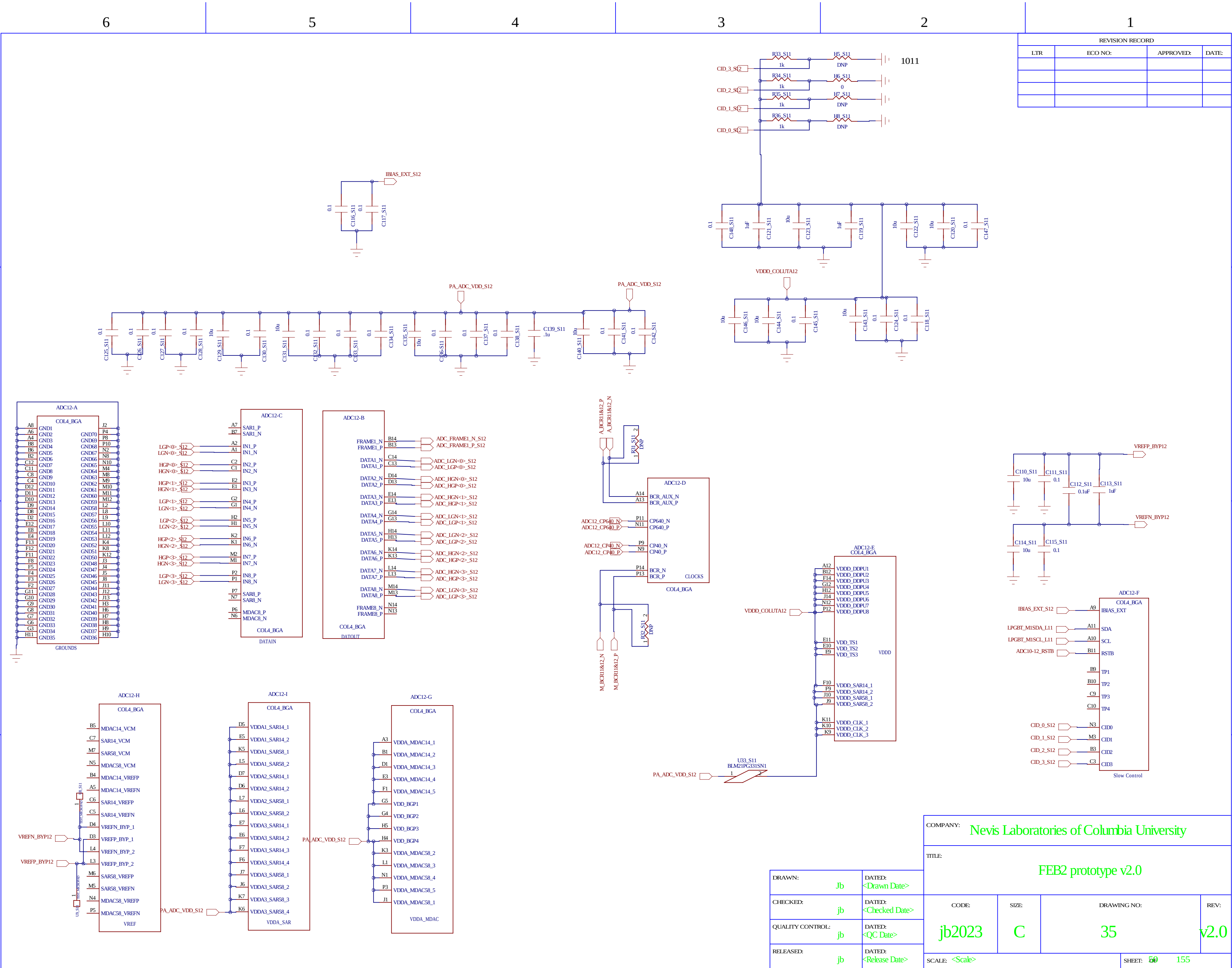
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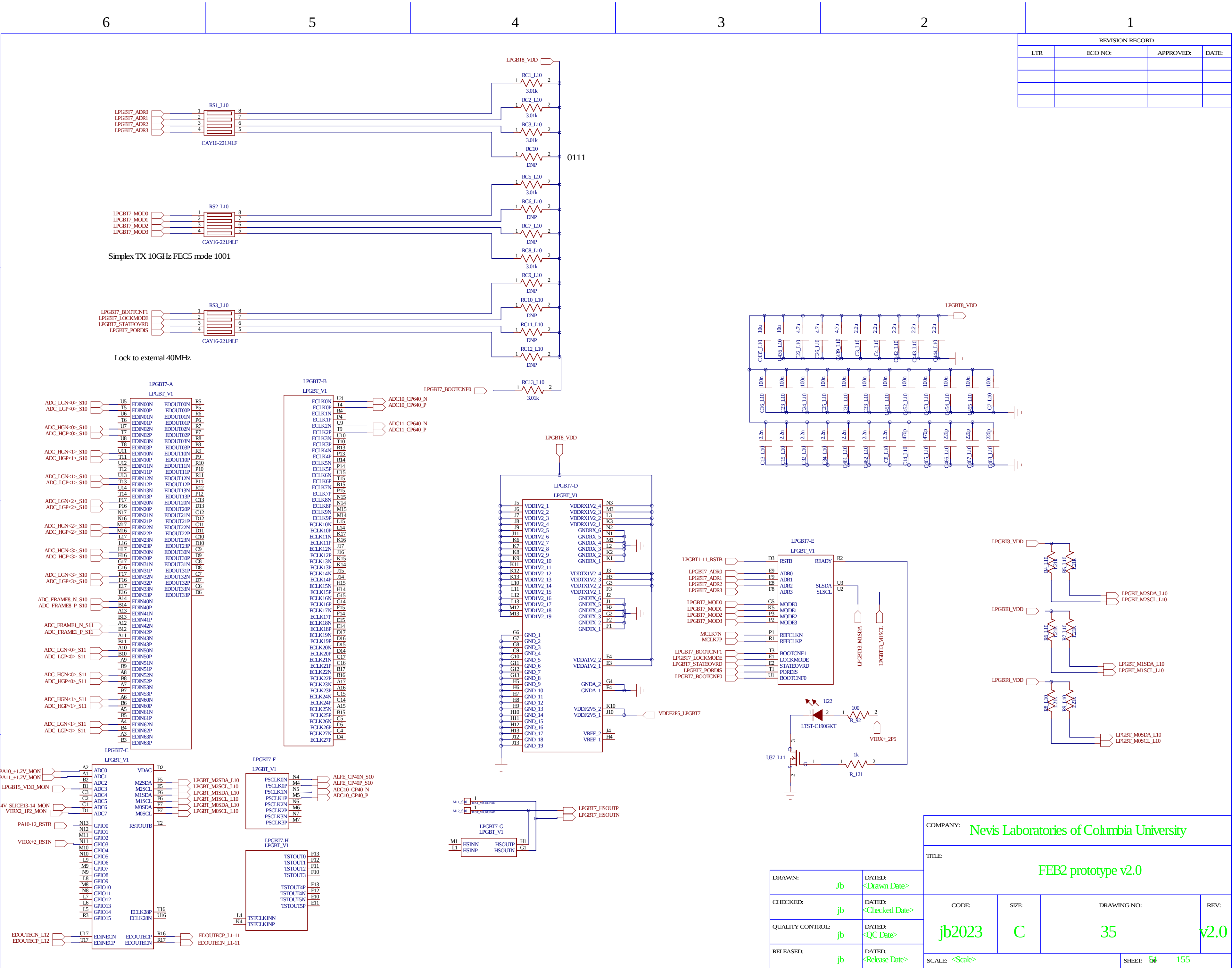
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TITLE: FEB2 prototype v2.0			
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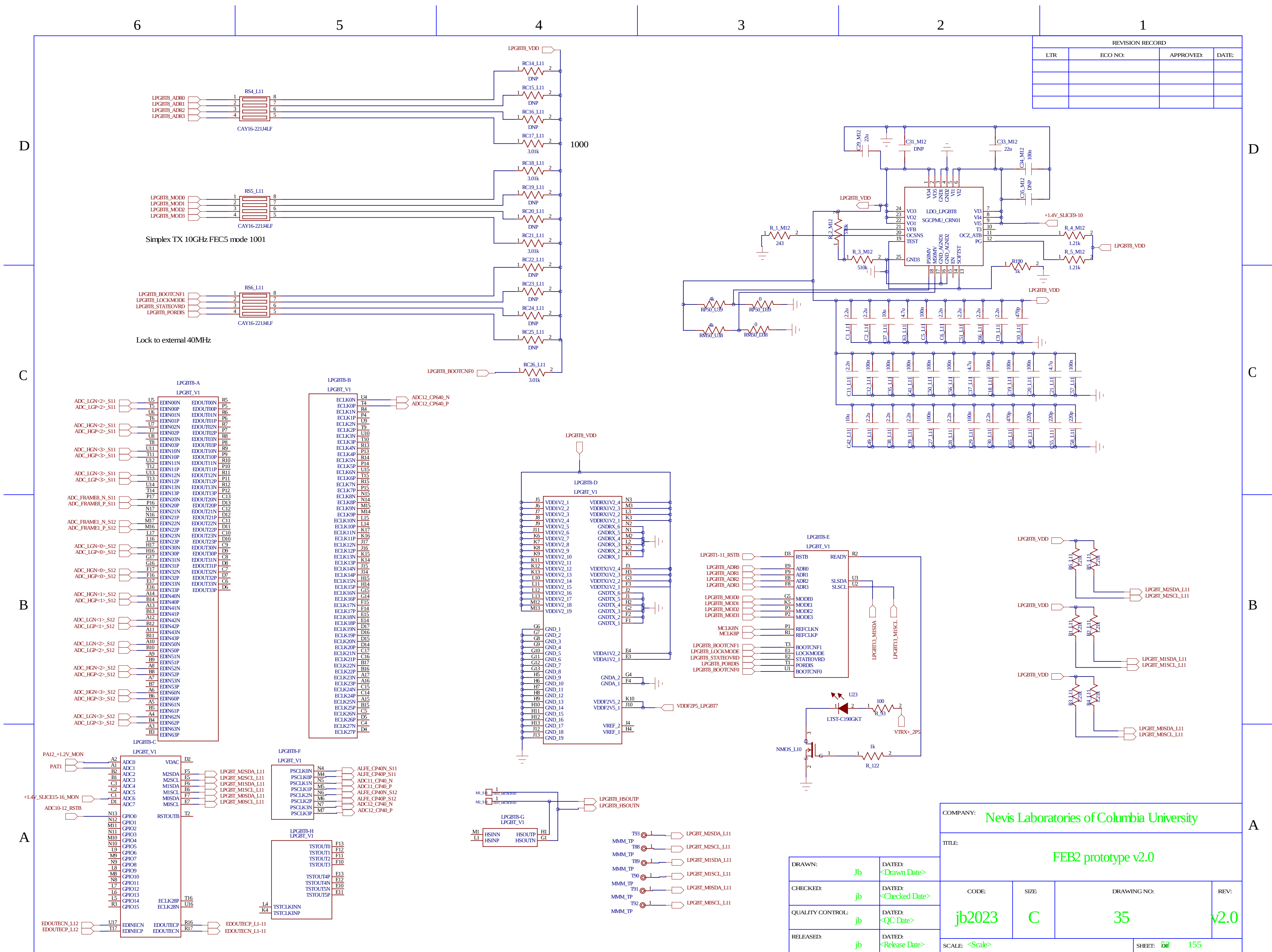
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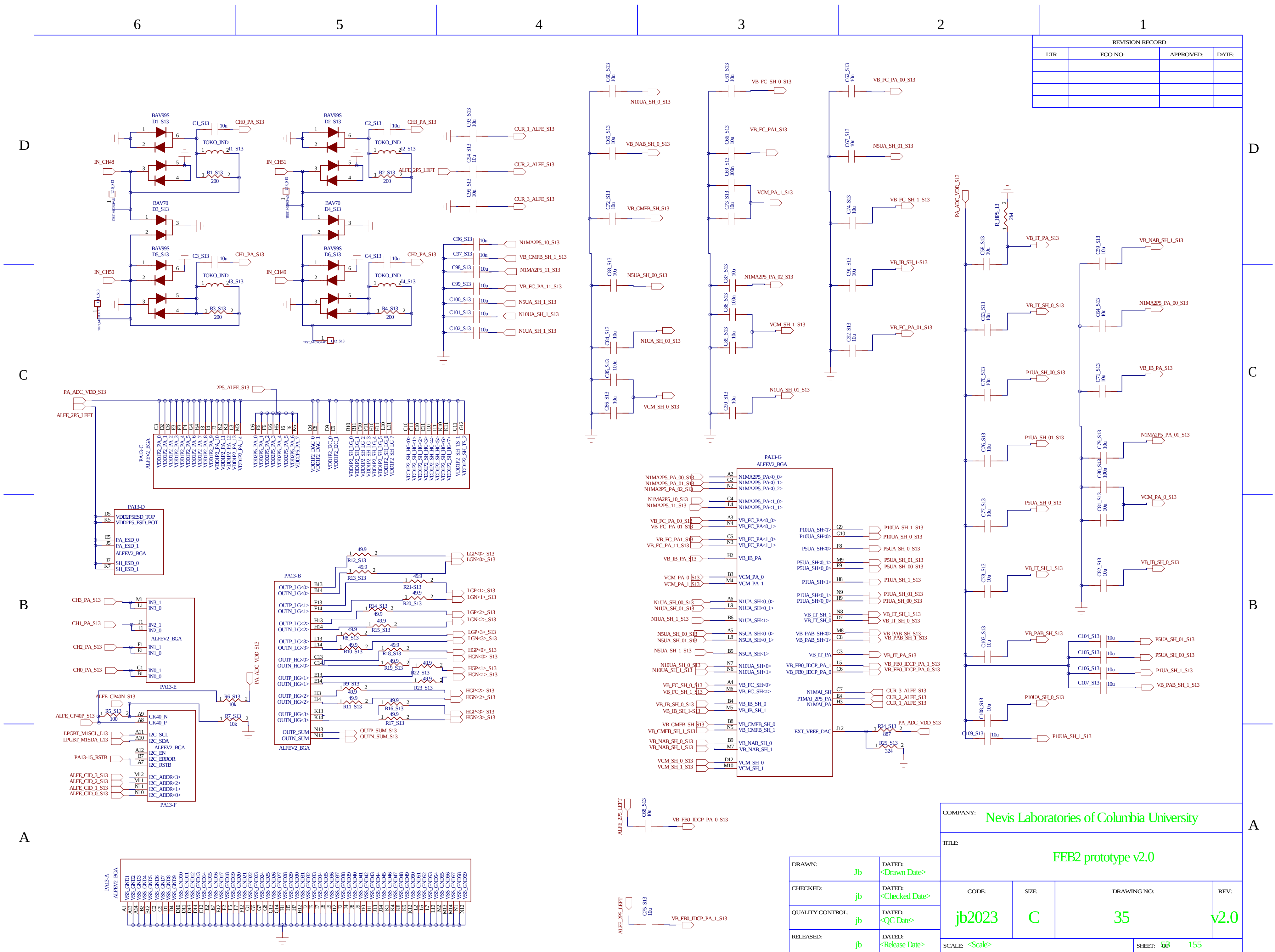
COMPANY: Nevis Laboratories of Columbia University

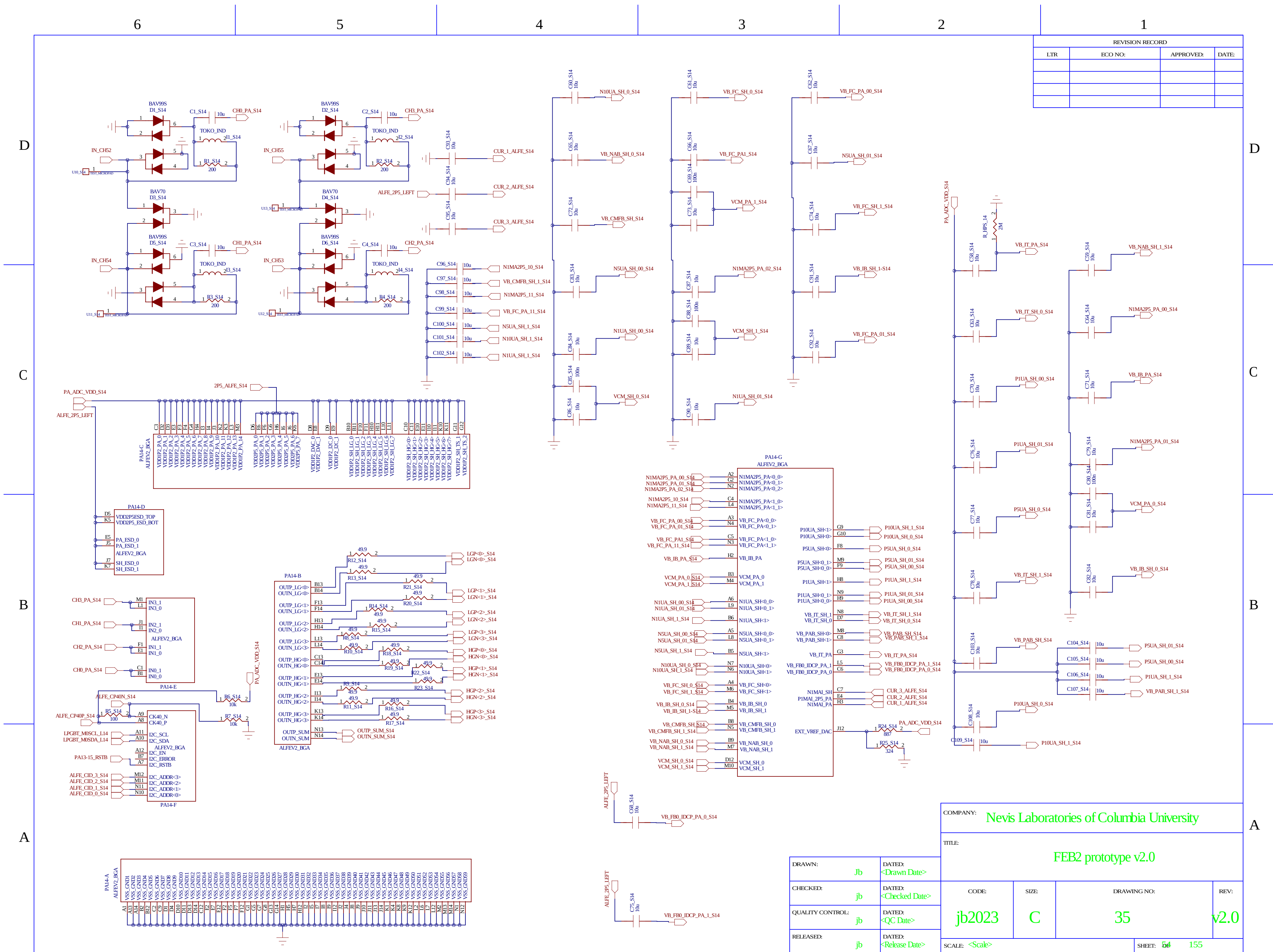
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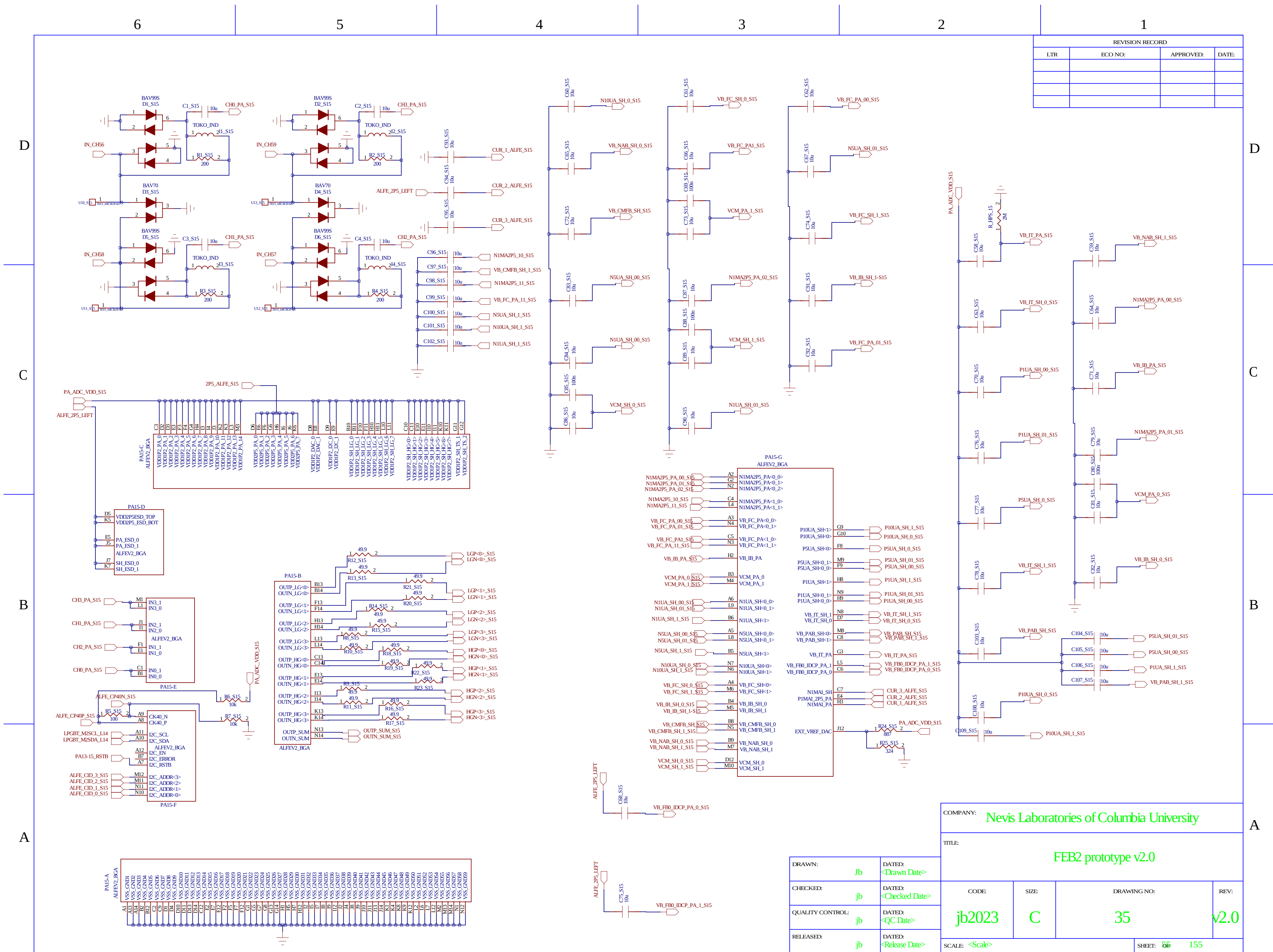
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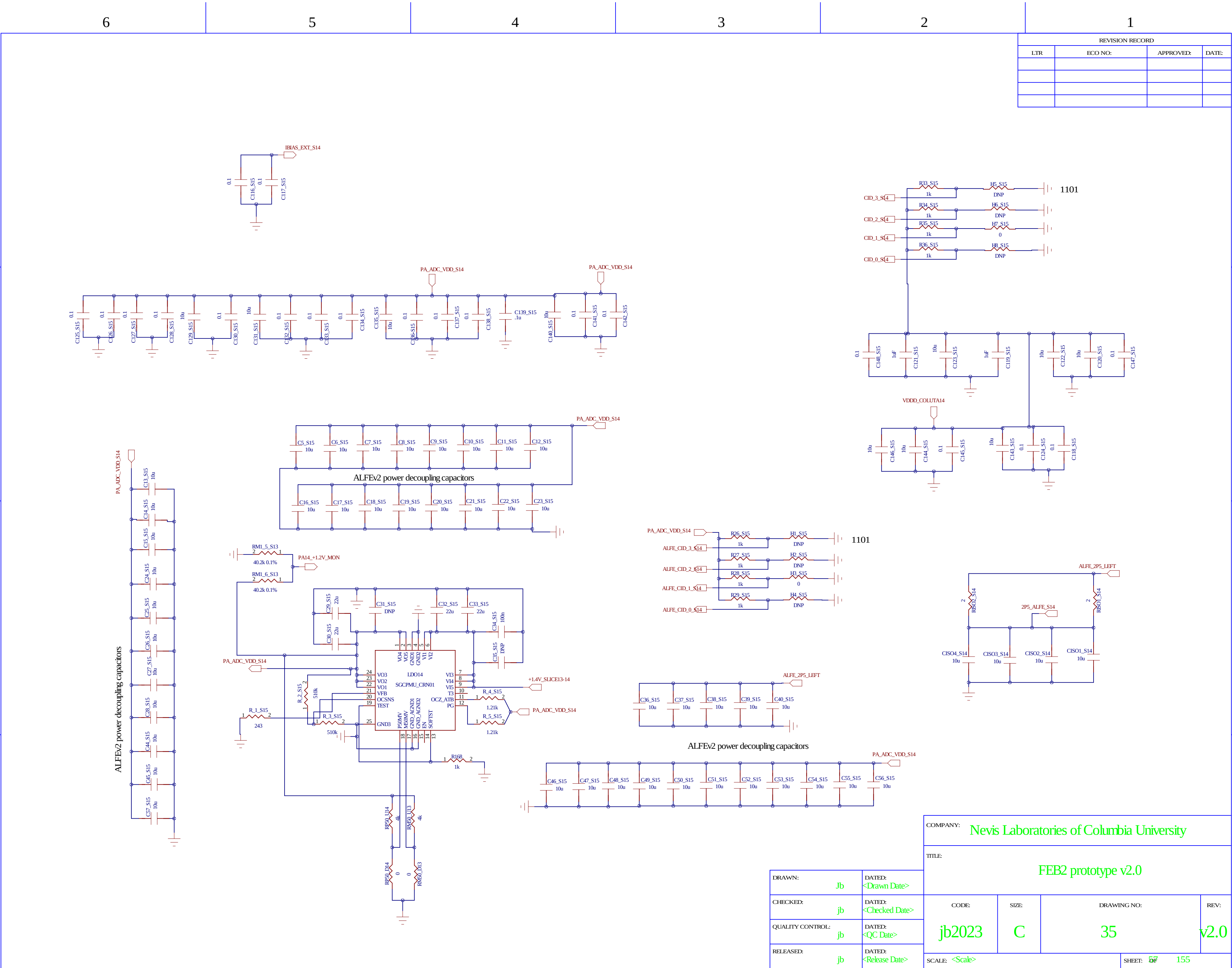
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COMPANY: Nevis Laboratories of Columbia University			
TITLE: FEB2 prototype v2.0			
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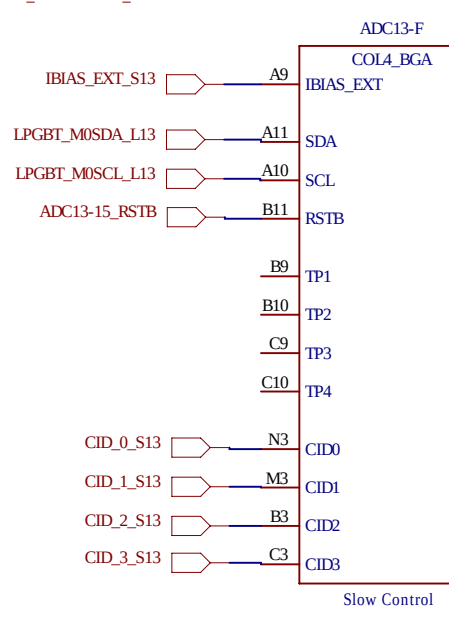
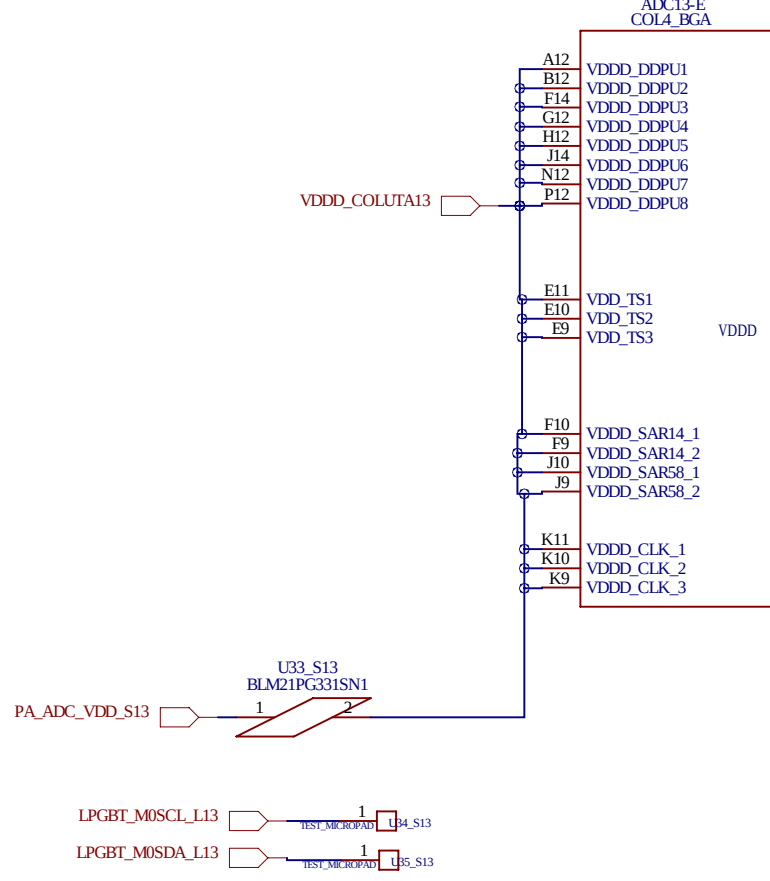
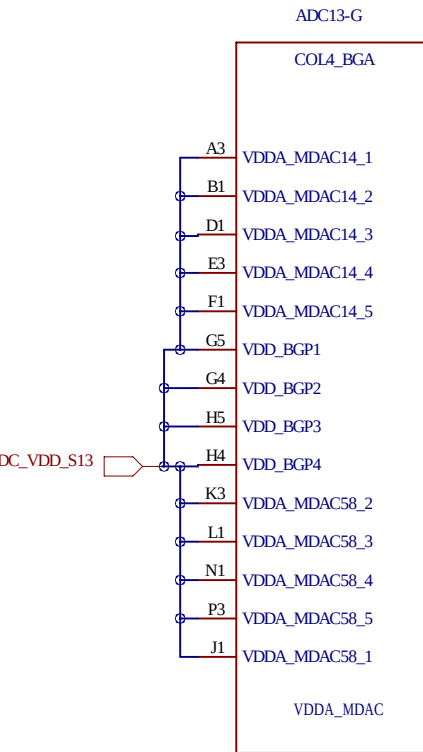
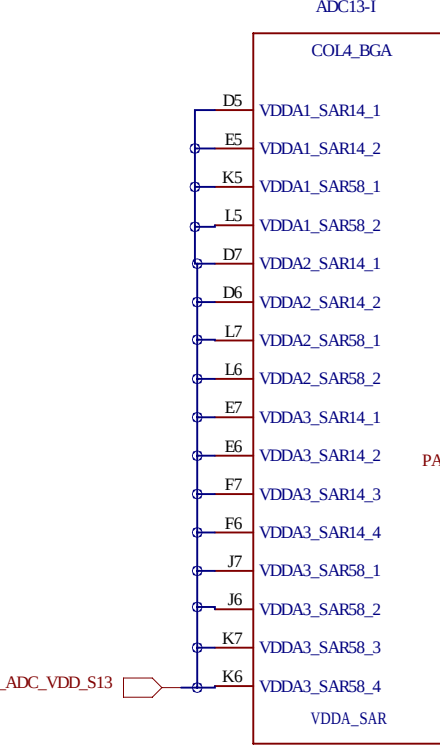
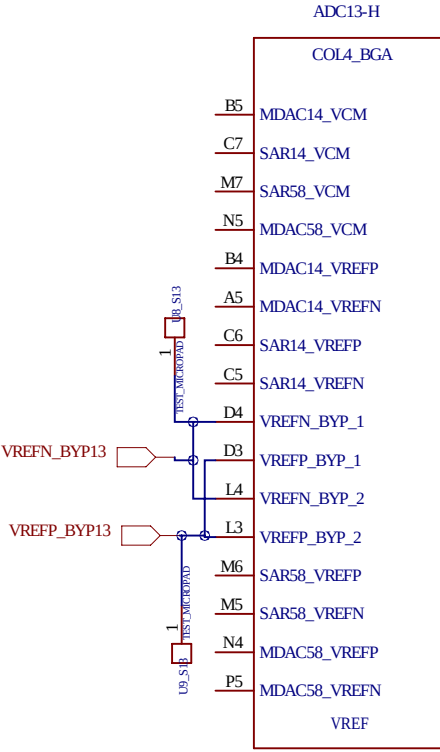
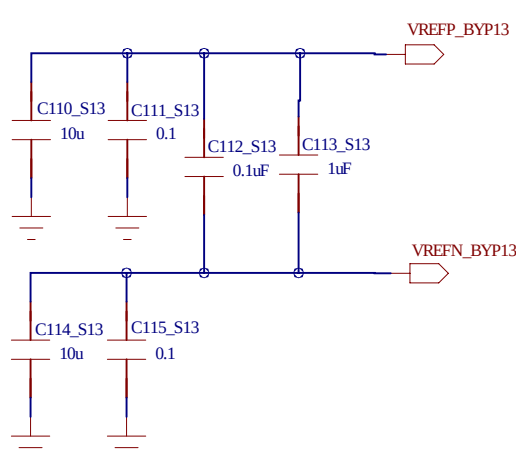
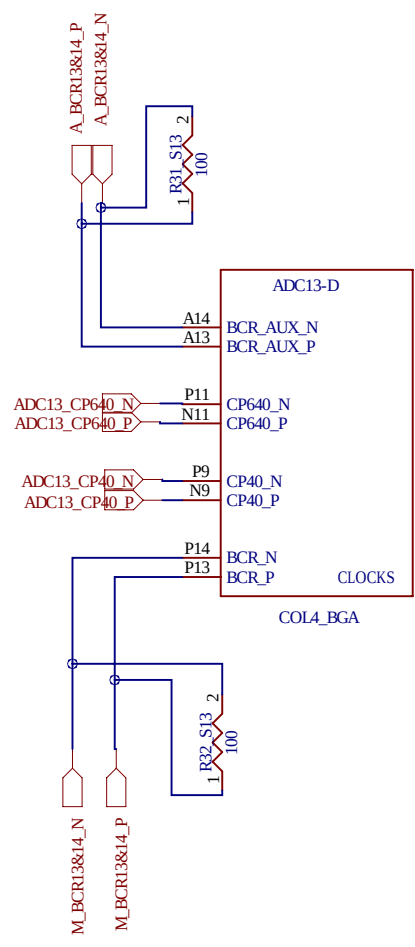
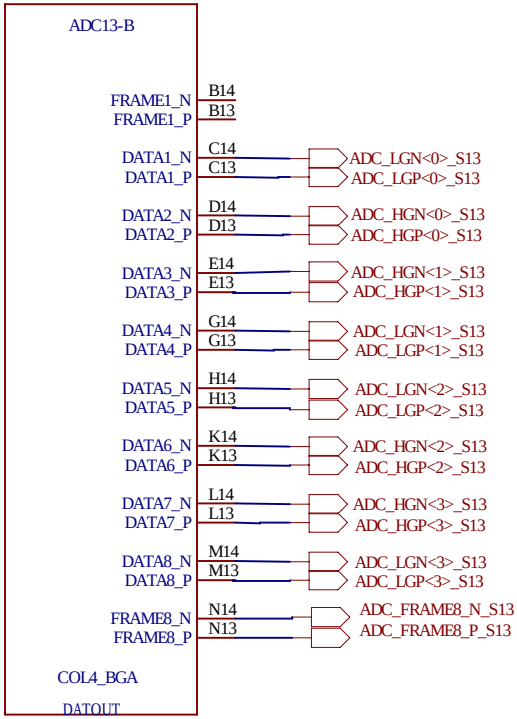
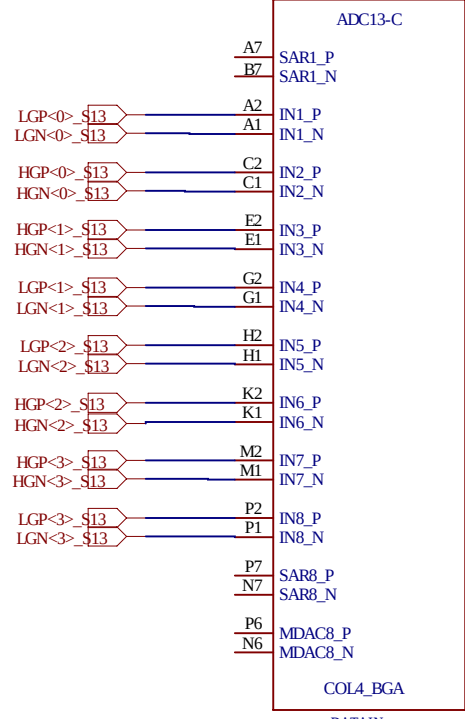
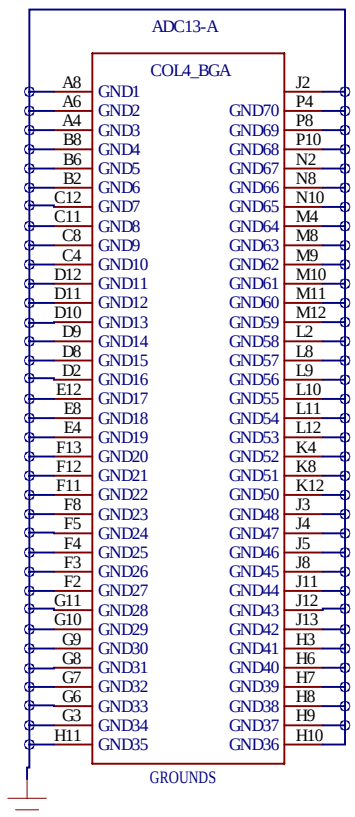
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TITLE: FEB2 prototype v2.0

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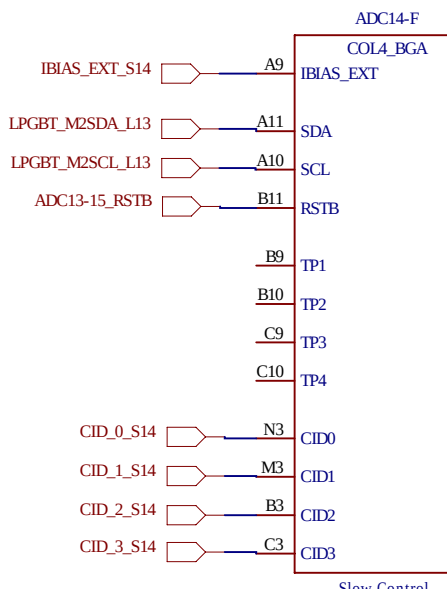
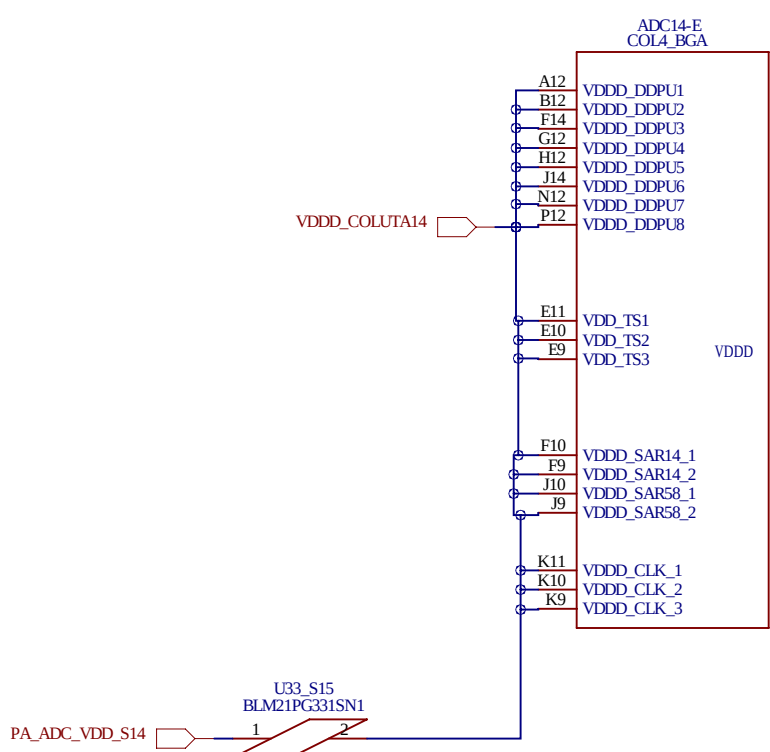
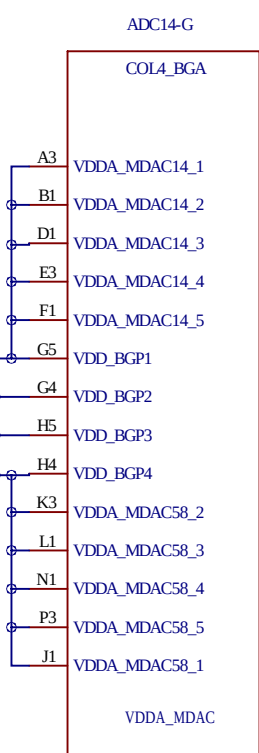
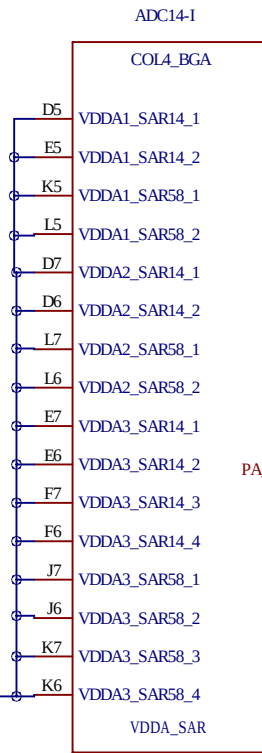
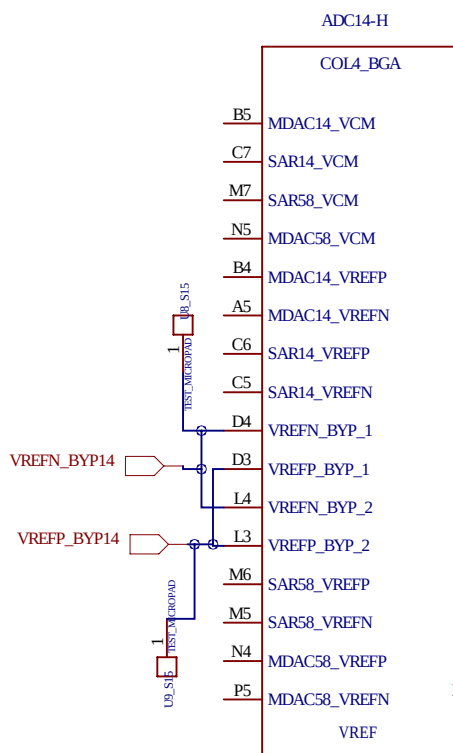
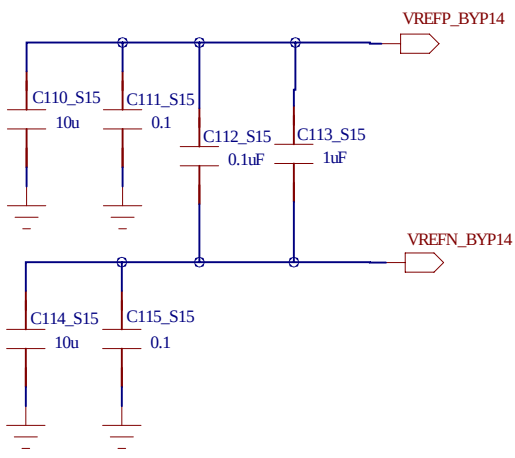
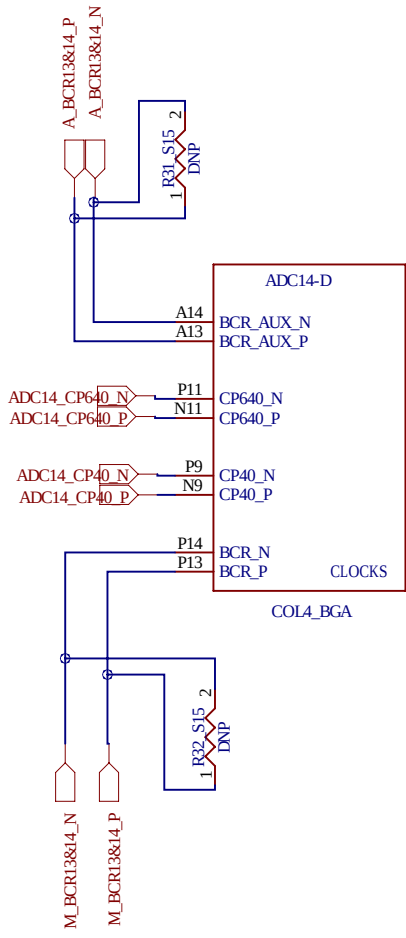
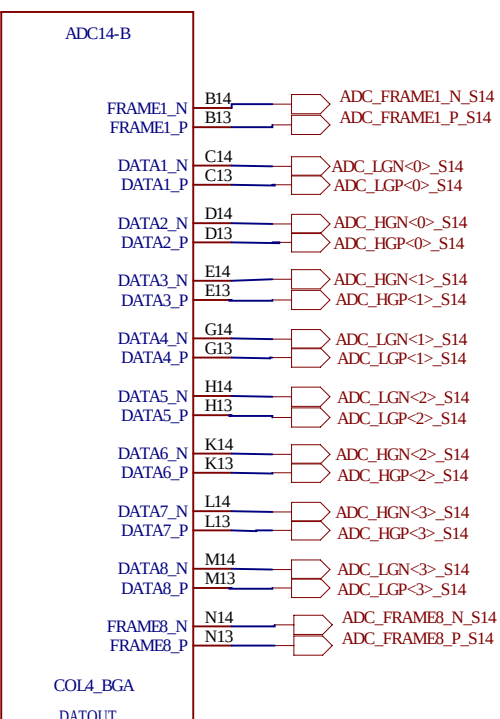
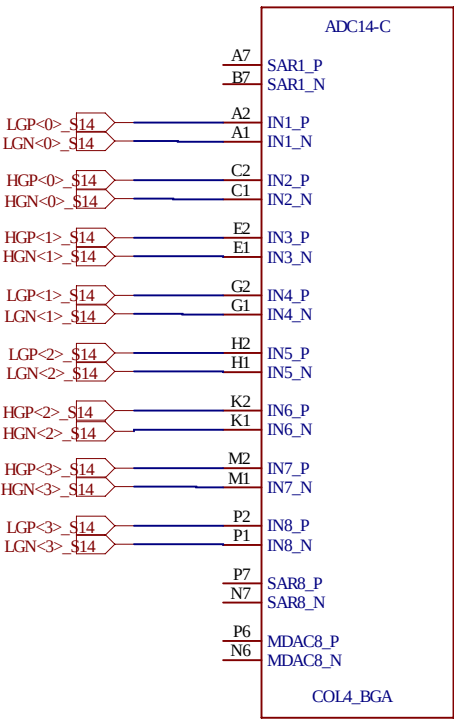
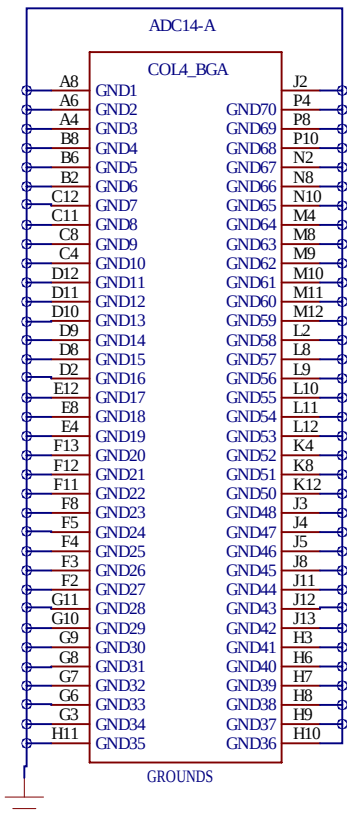
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TITLE: FEB2 prototype v2.0			
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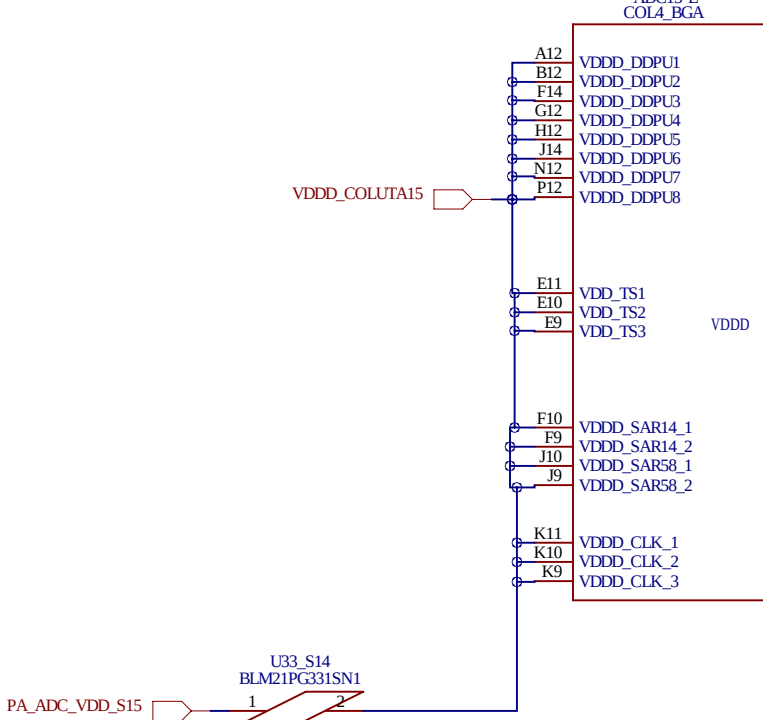
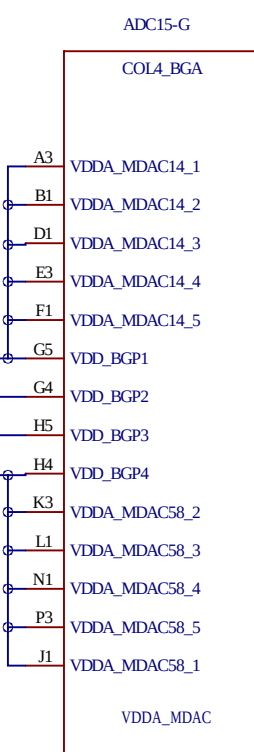
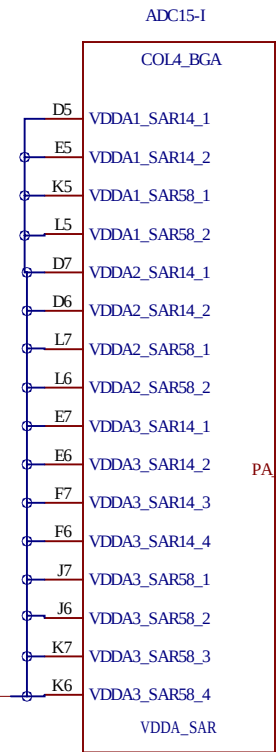
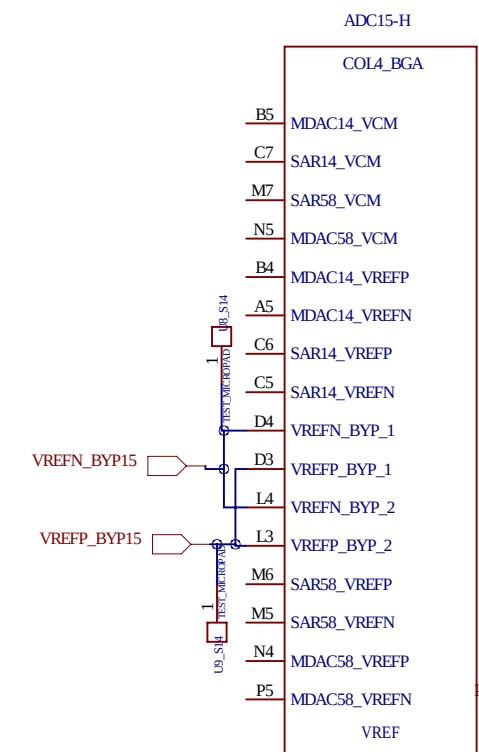
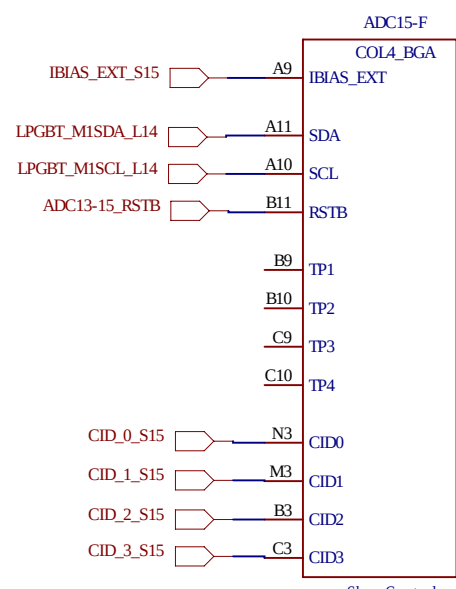
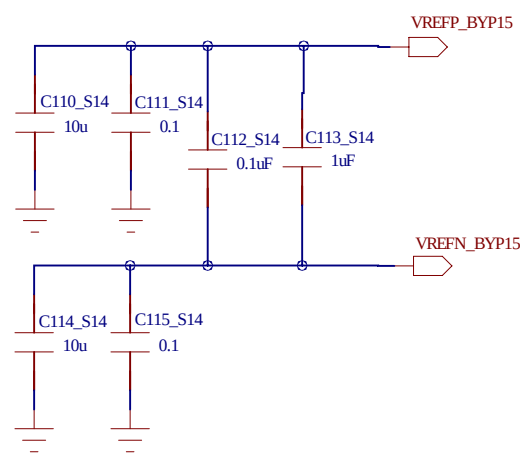
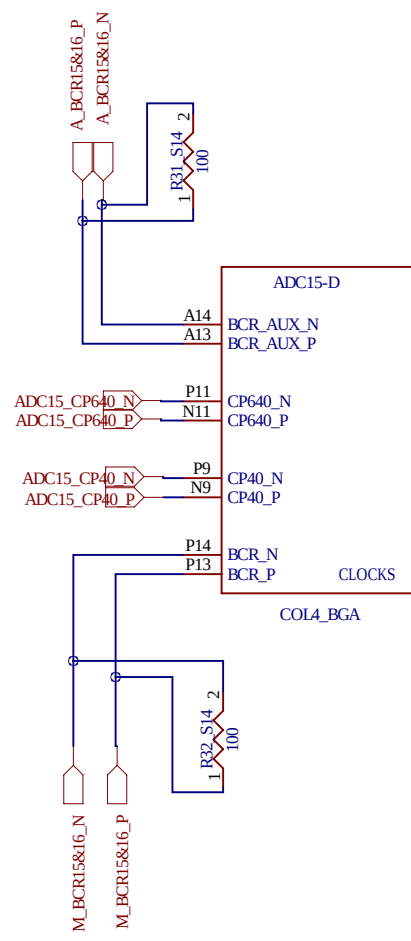
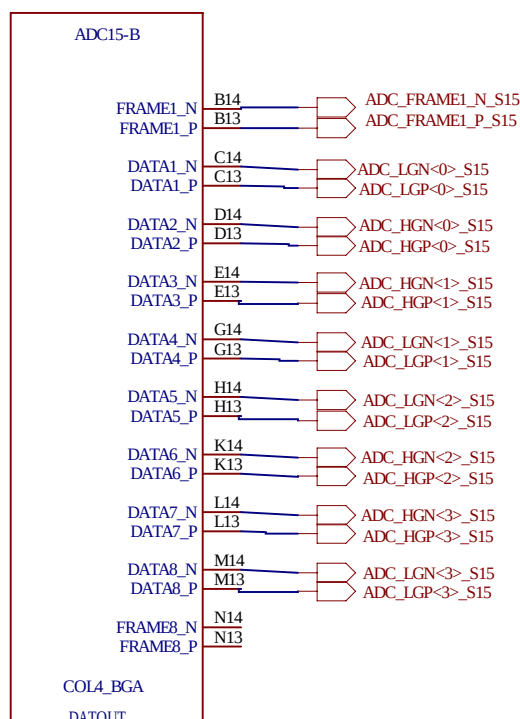
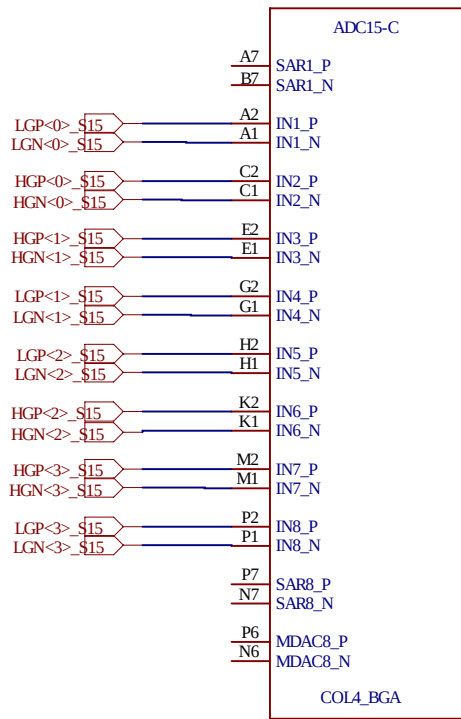
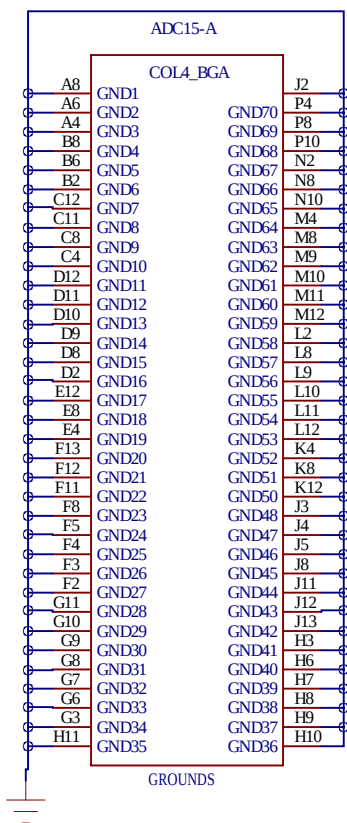
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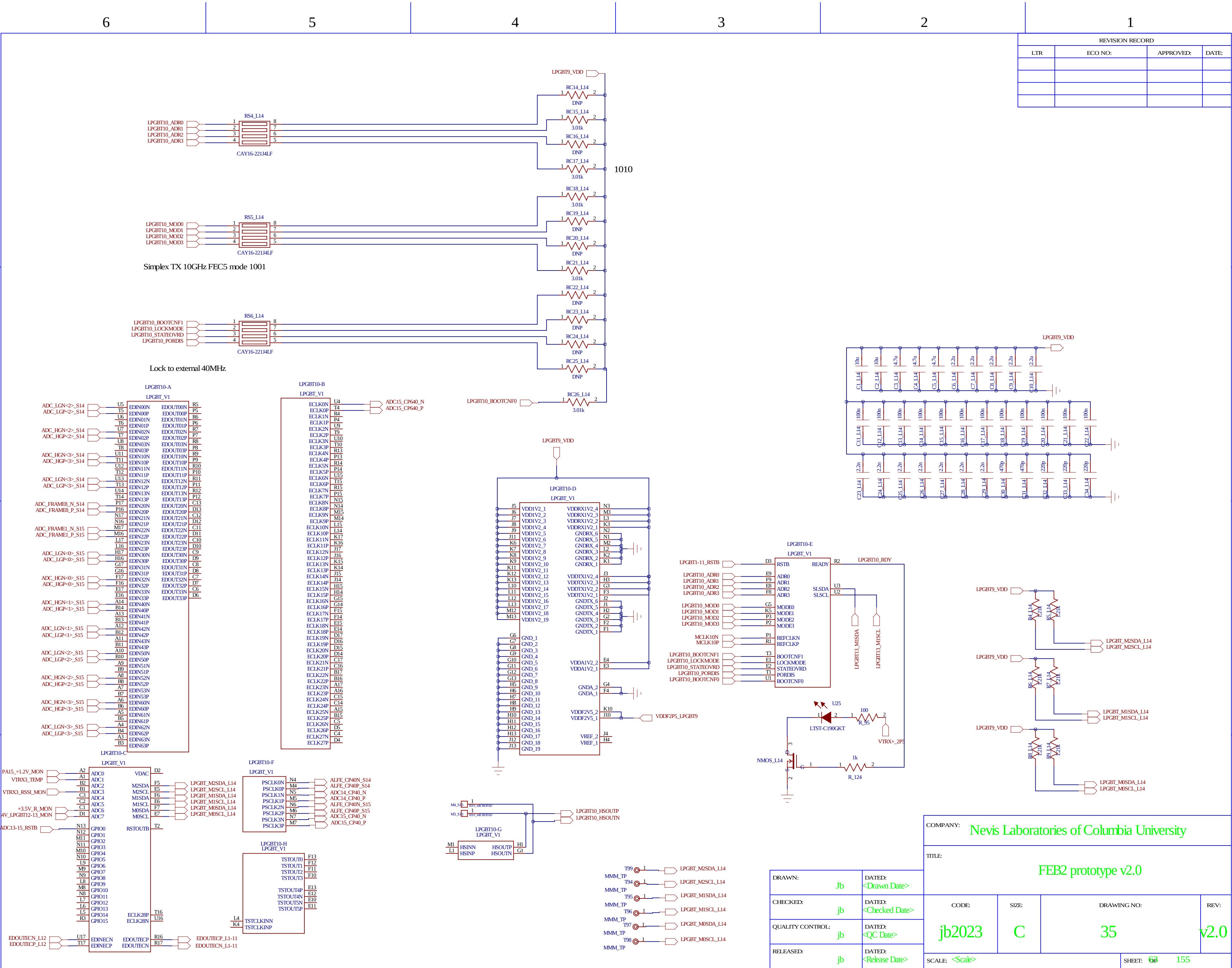
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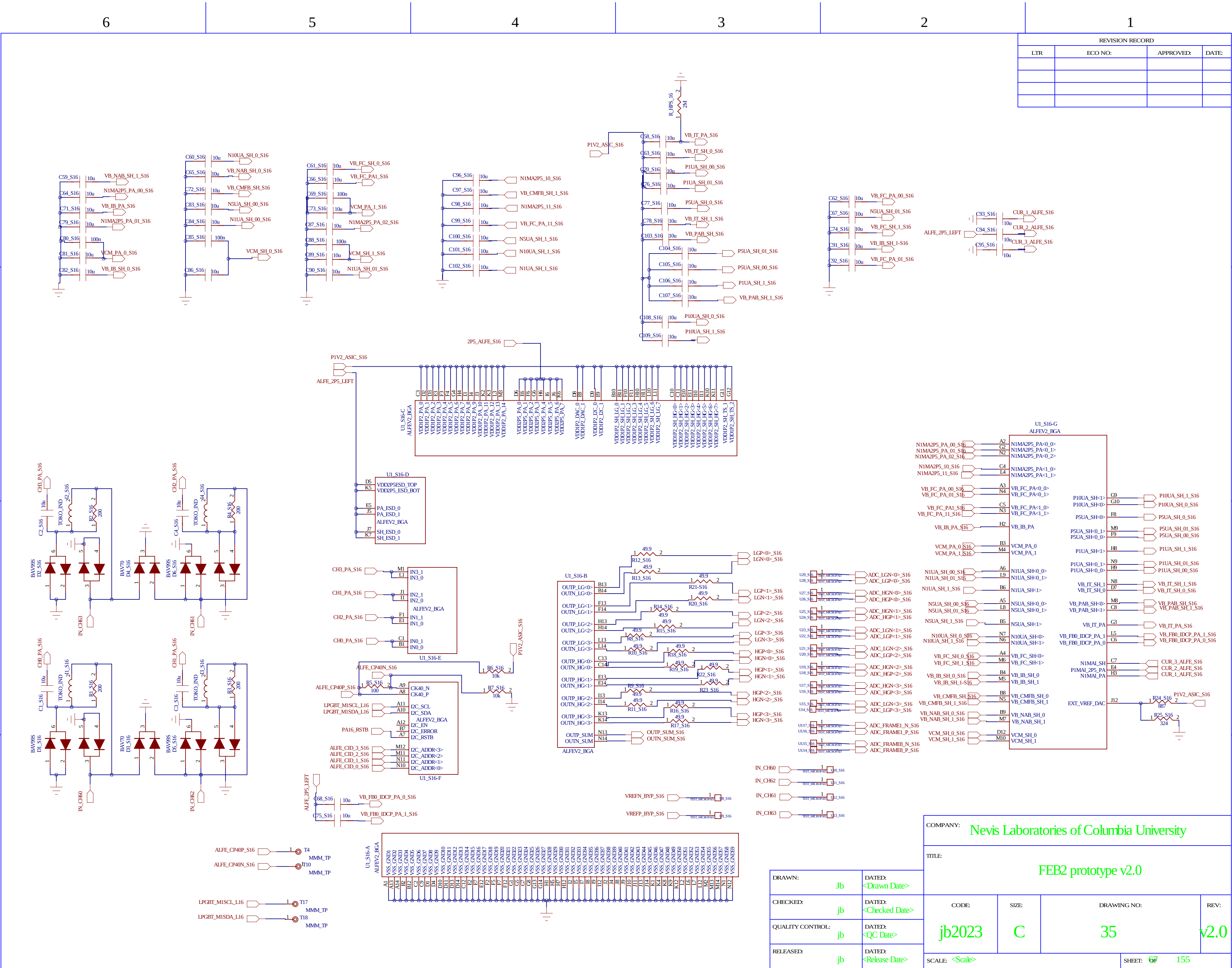


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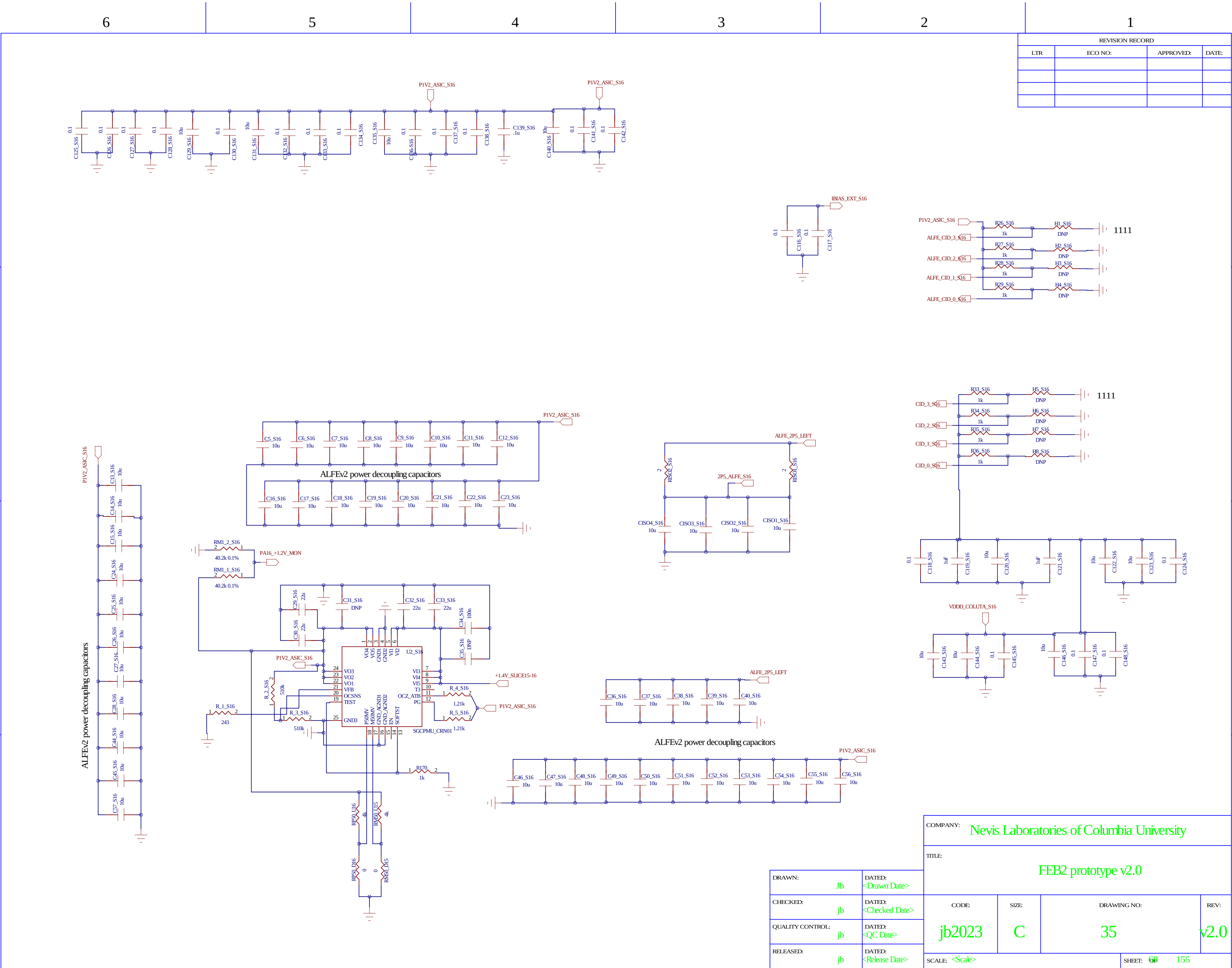






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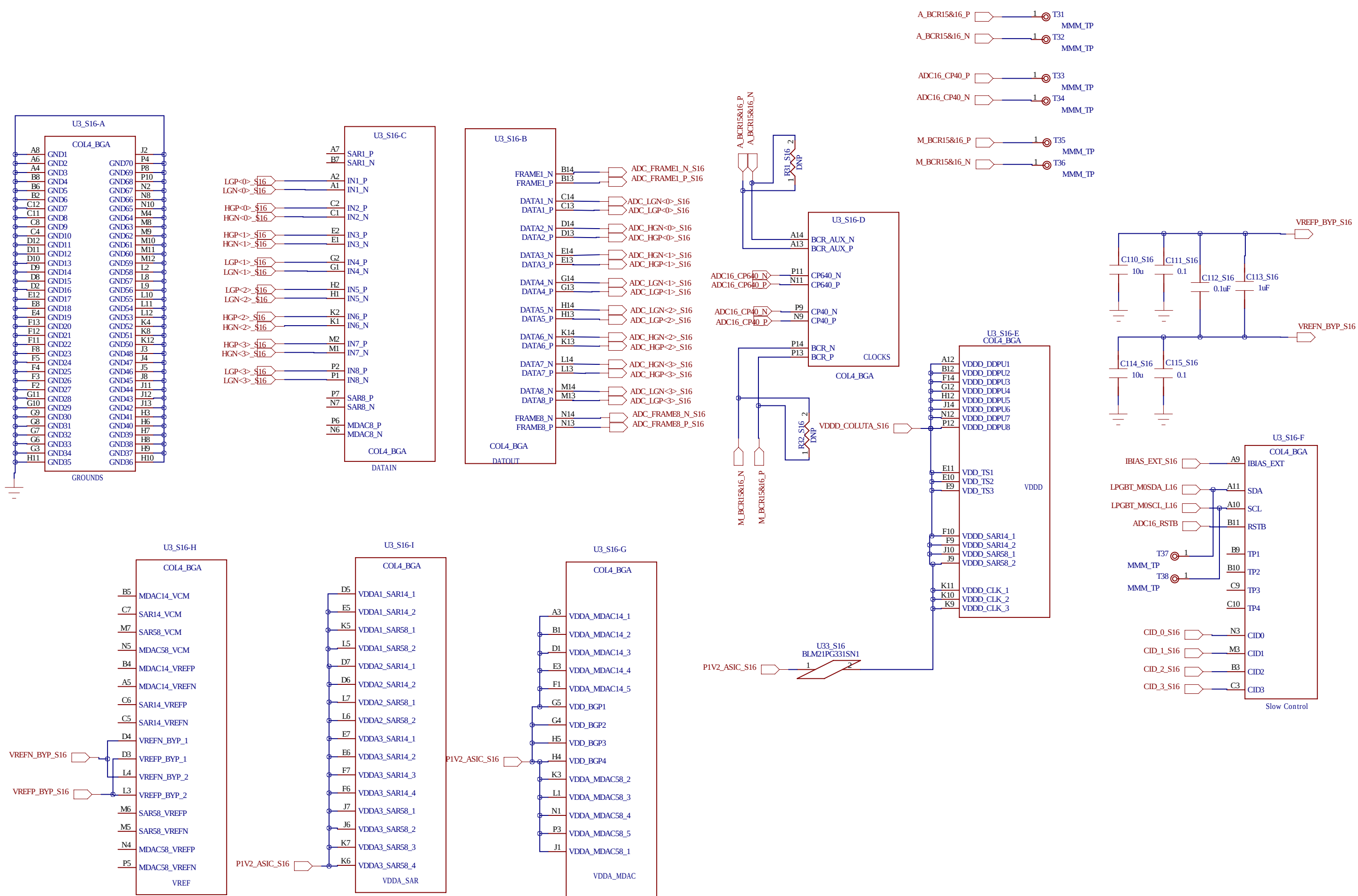
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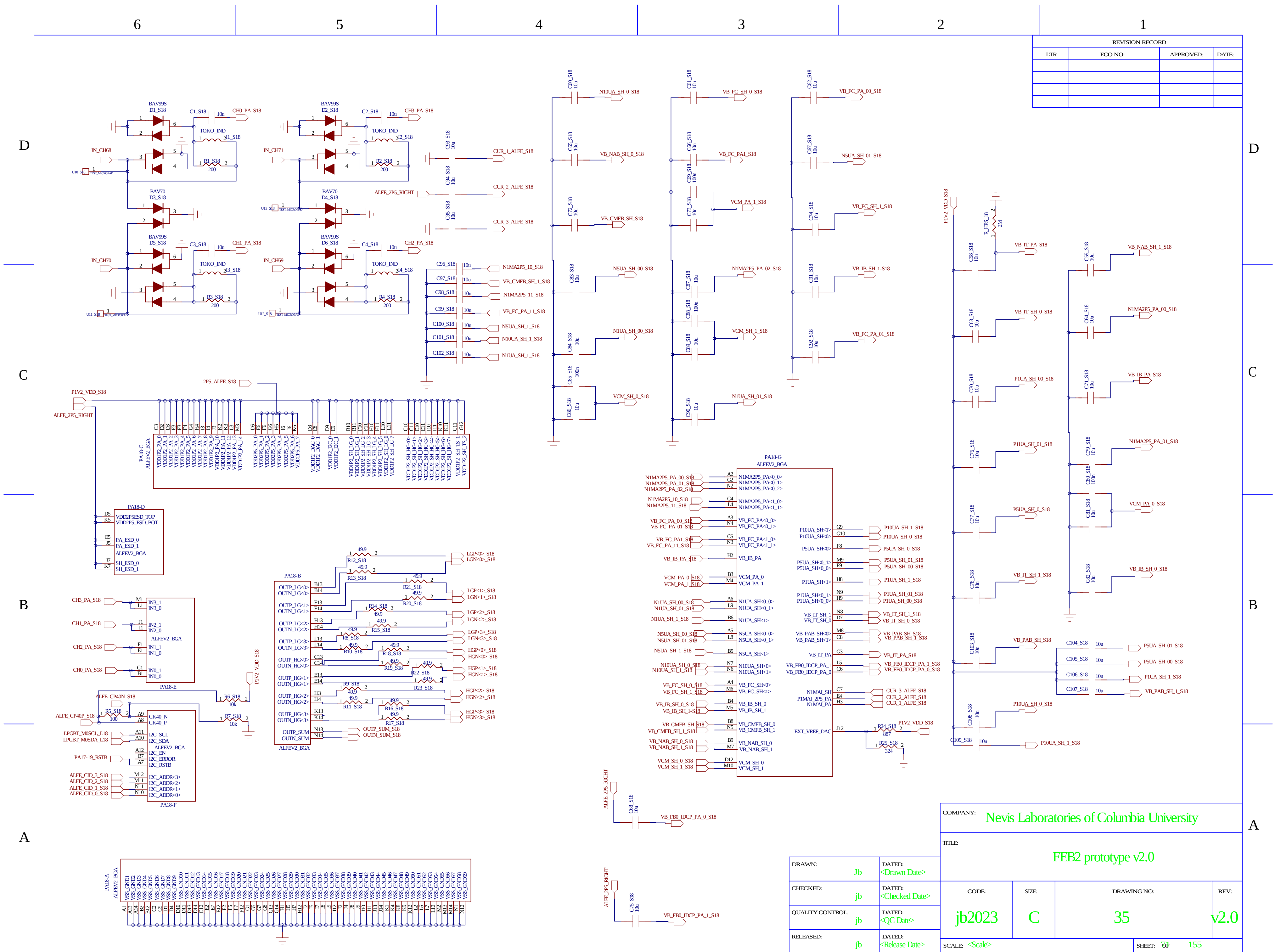
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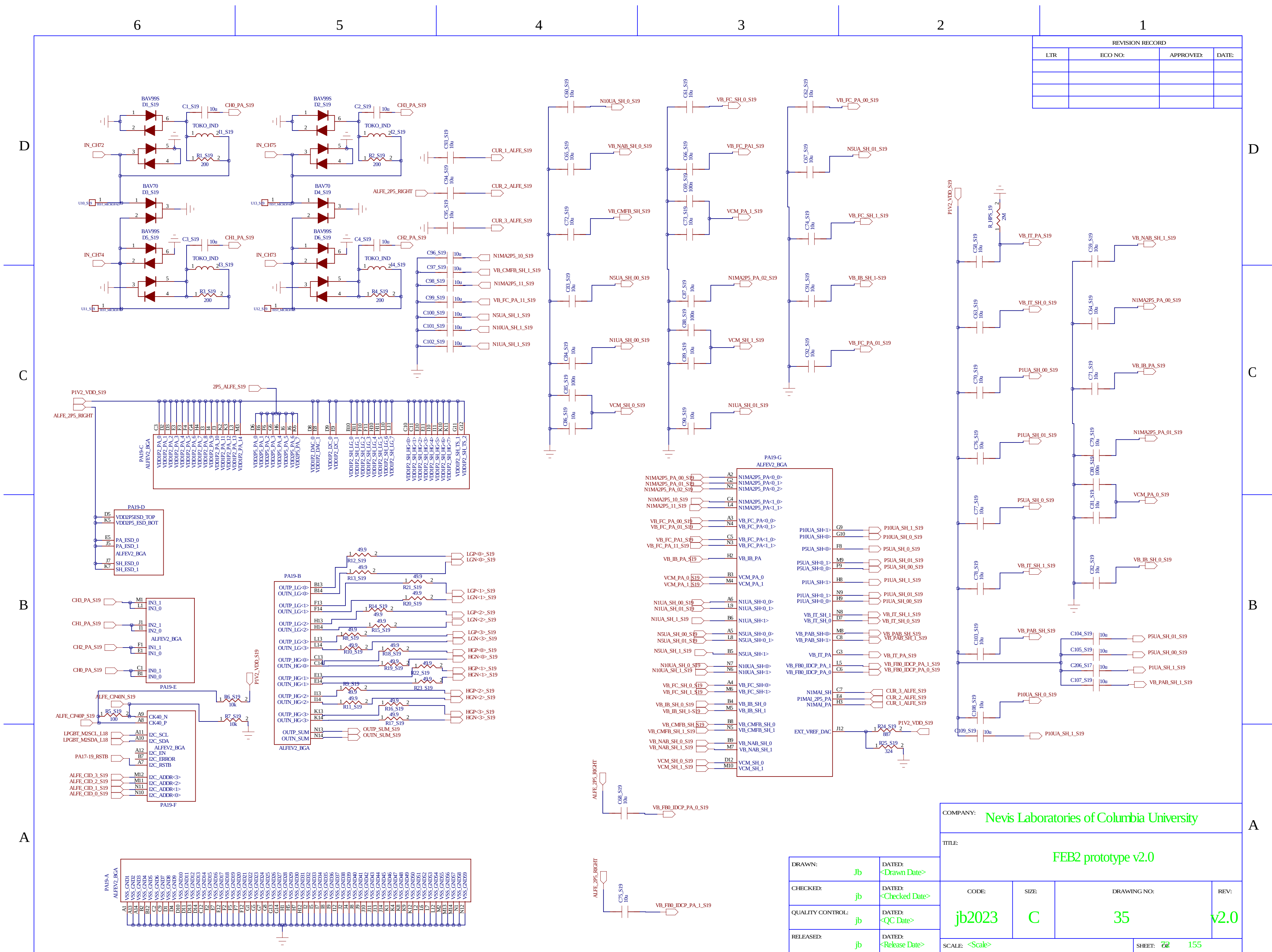
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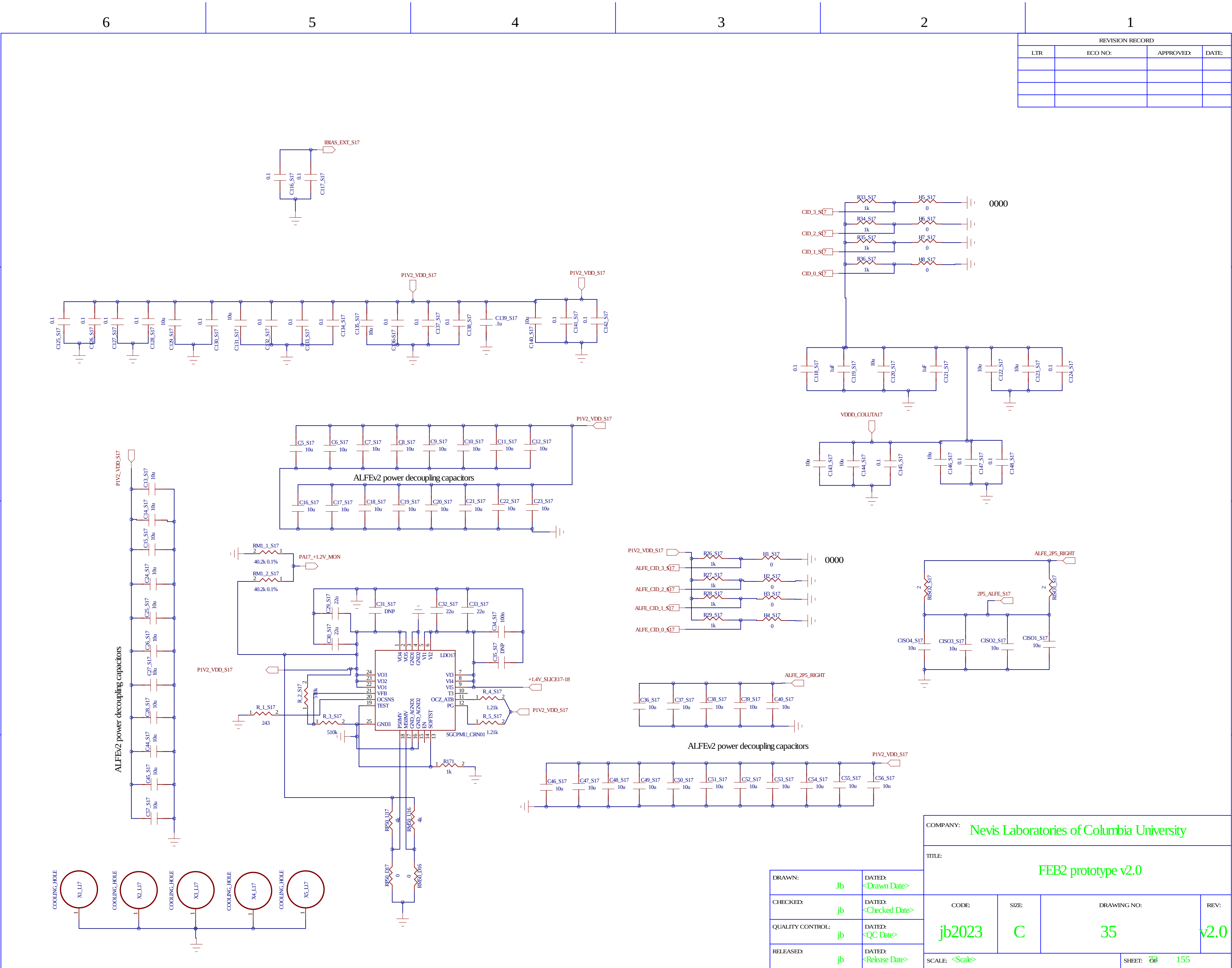


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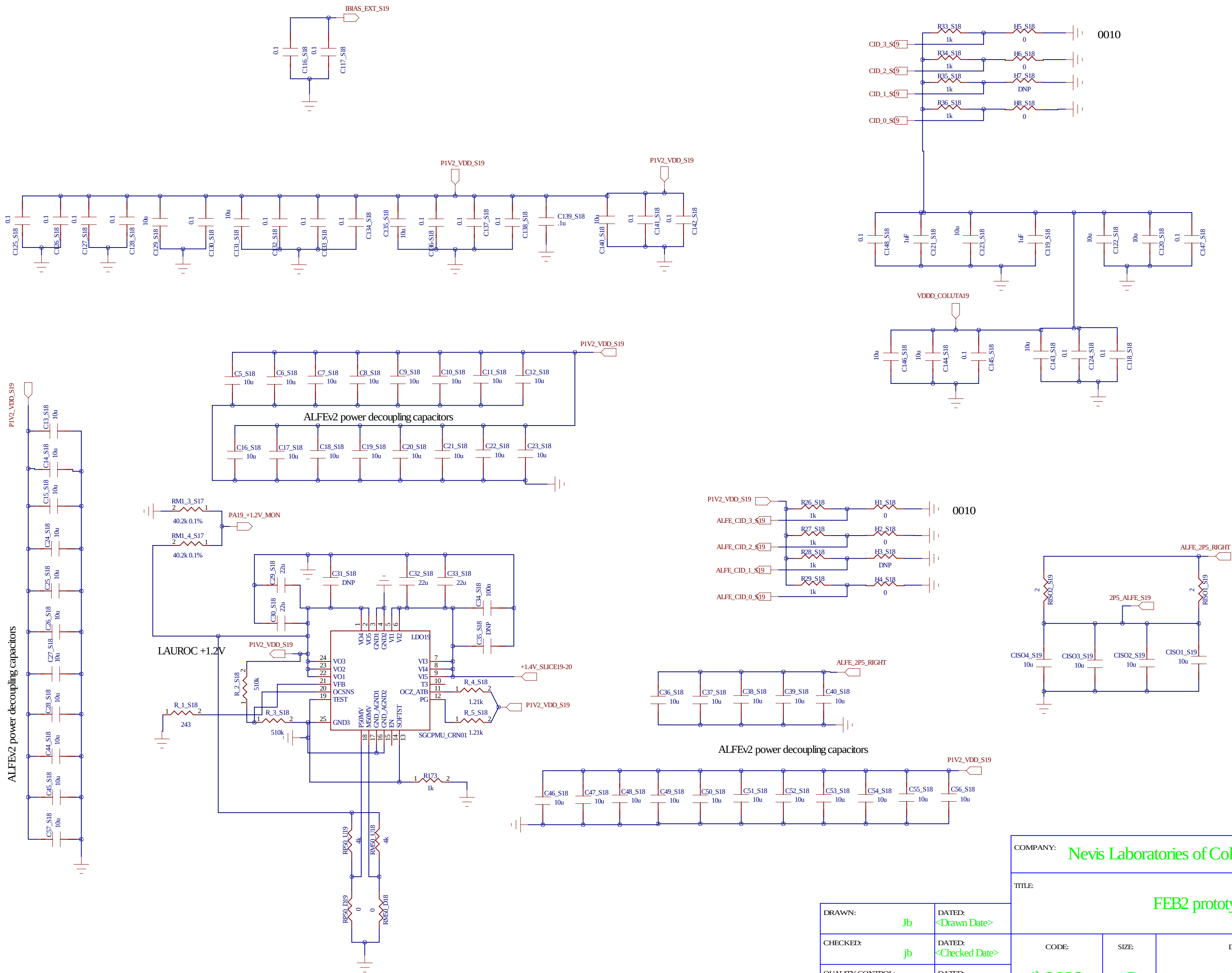
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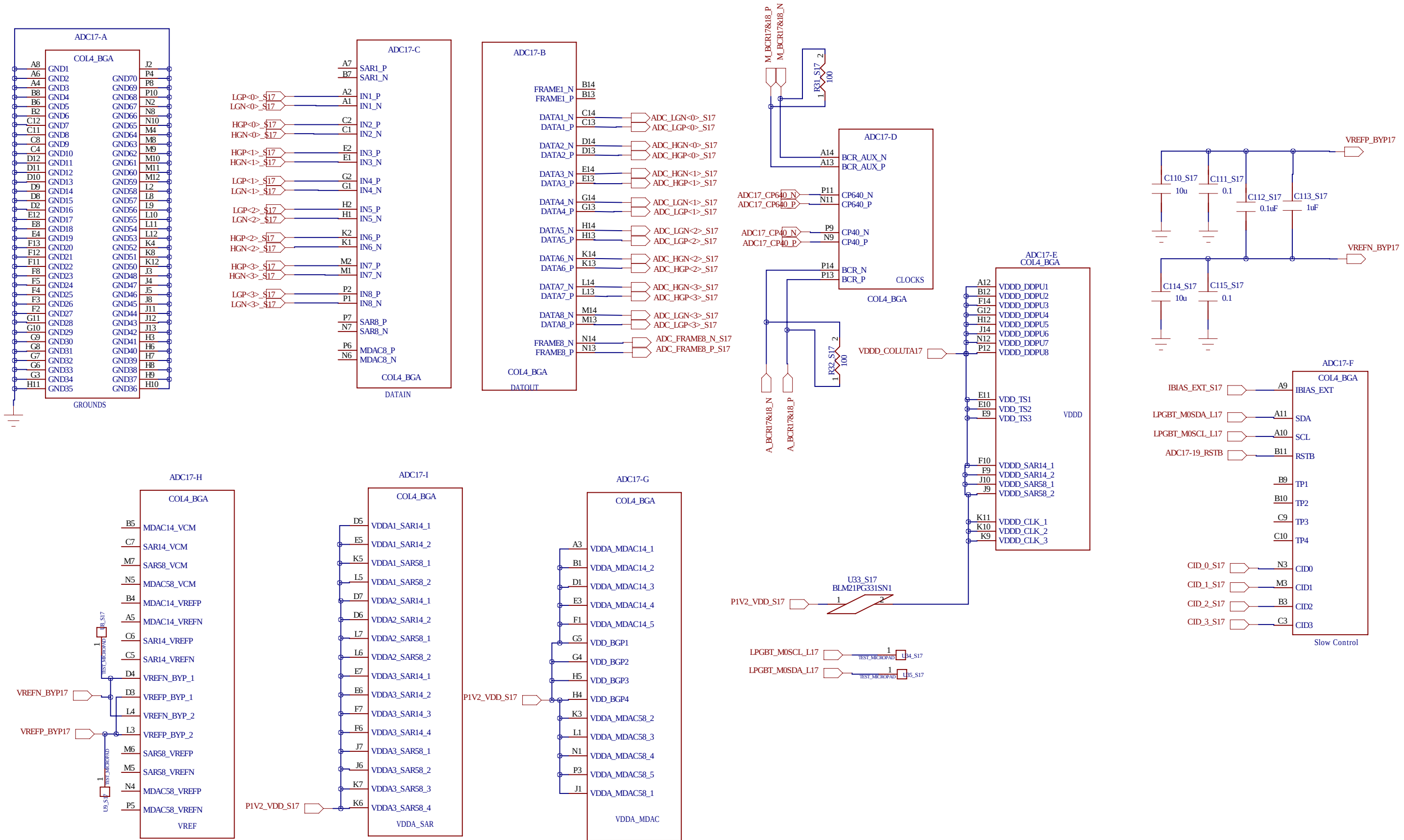
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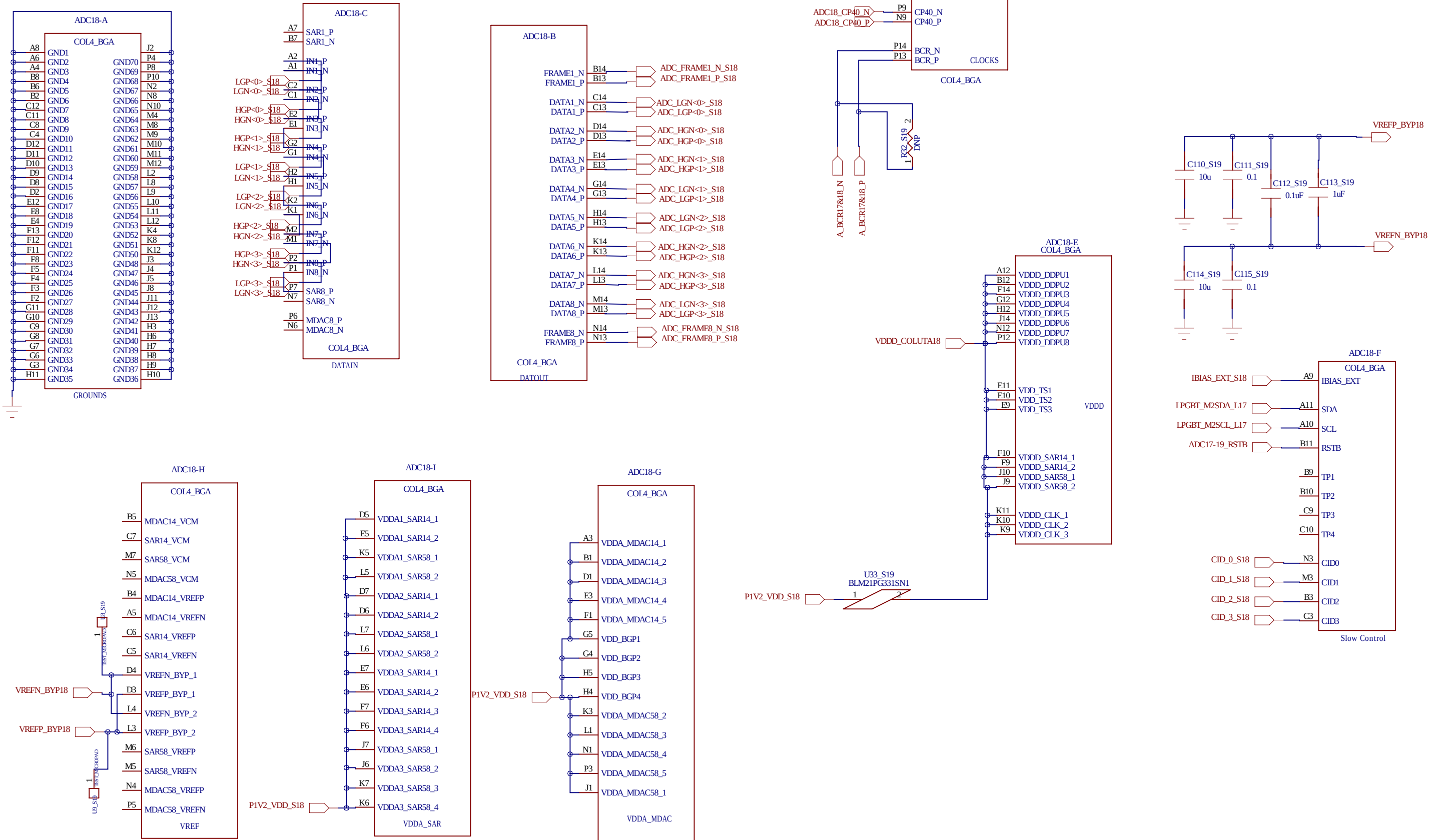
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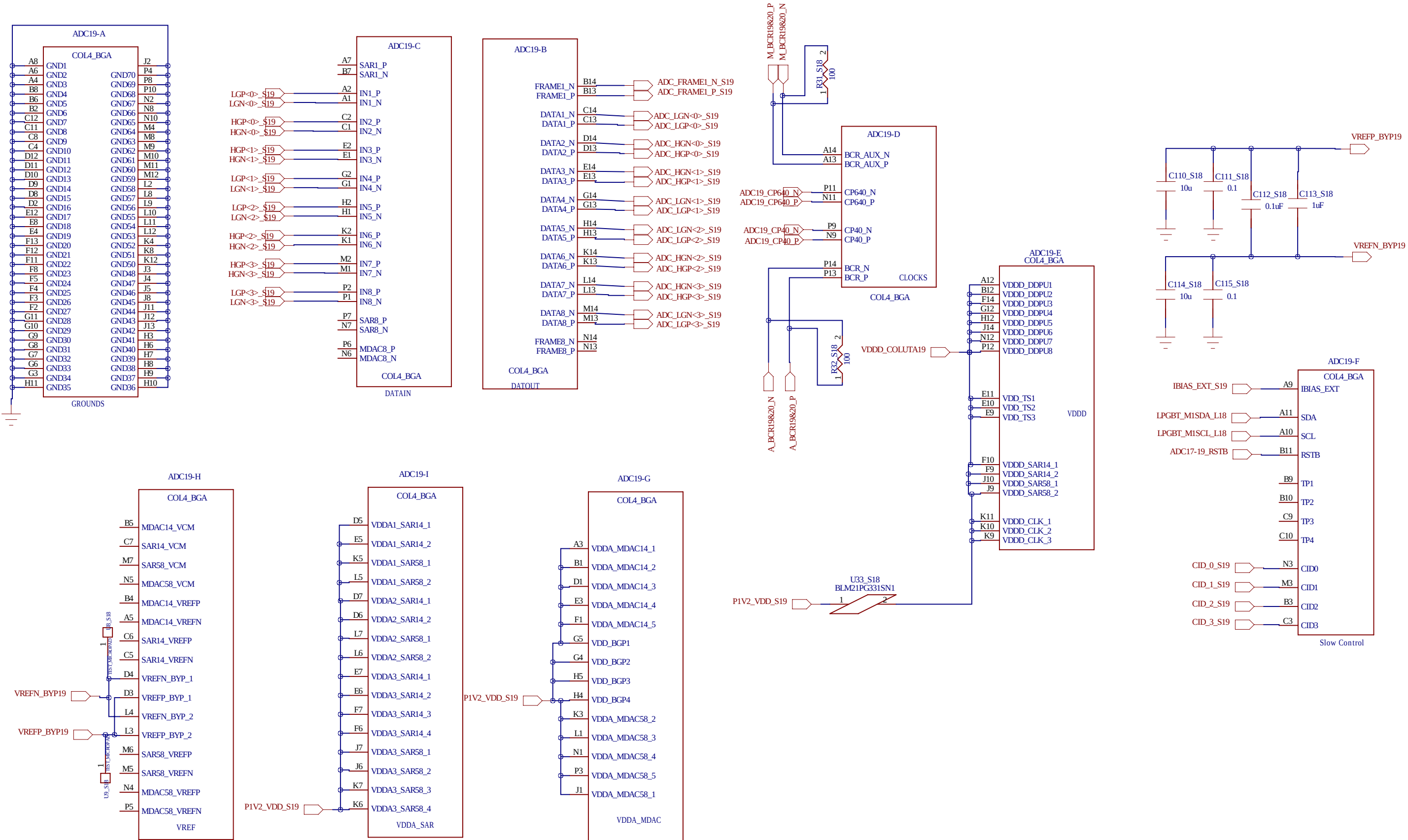
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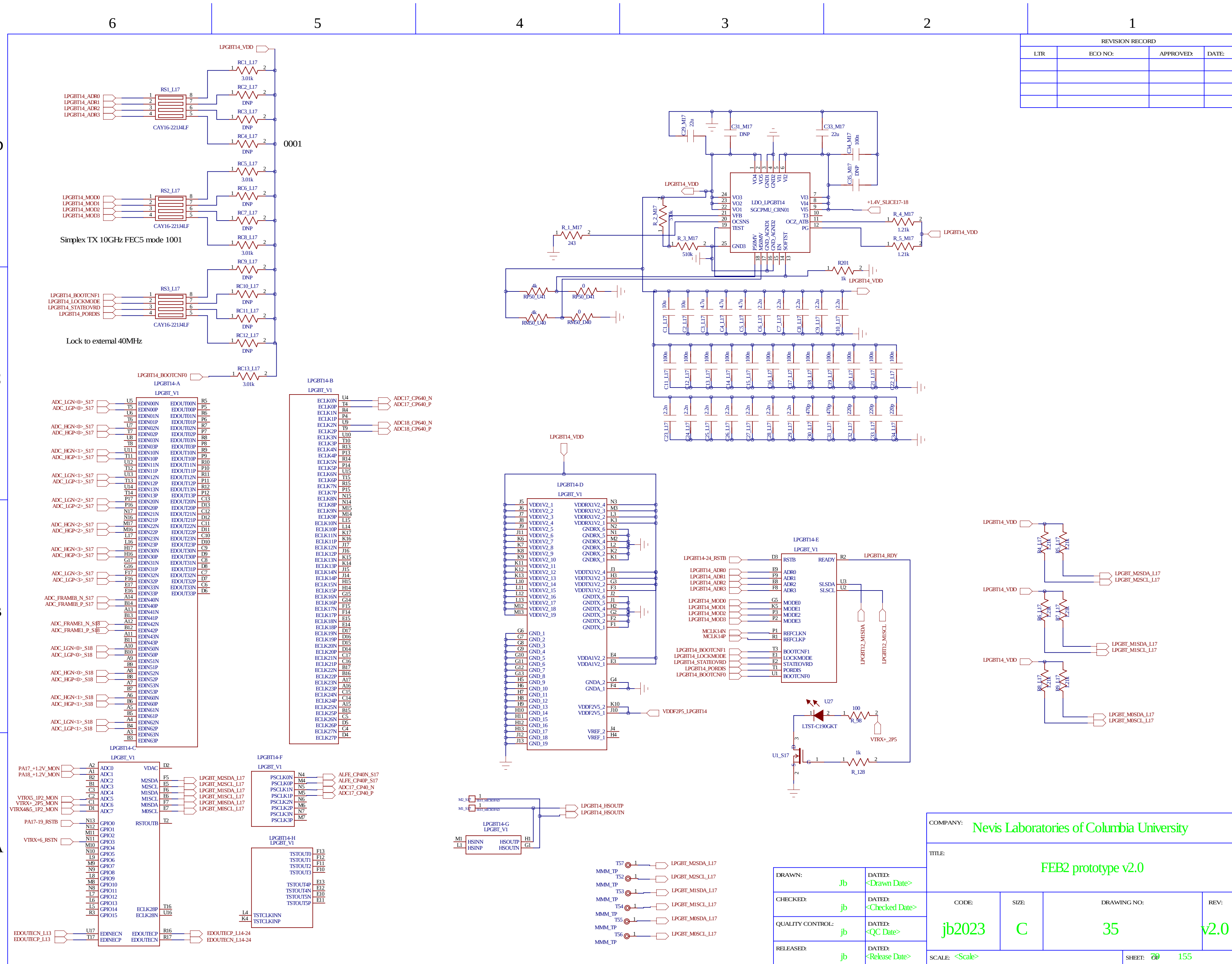
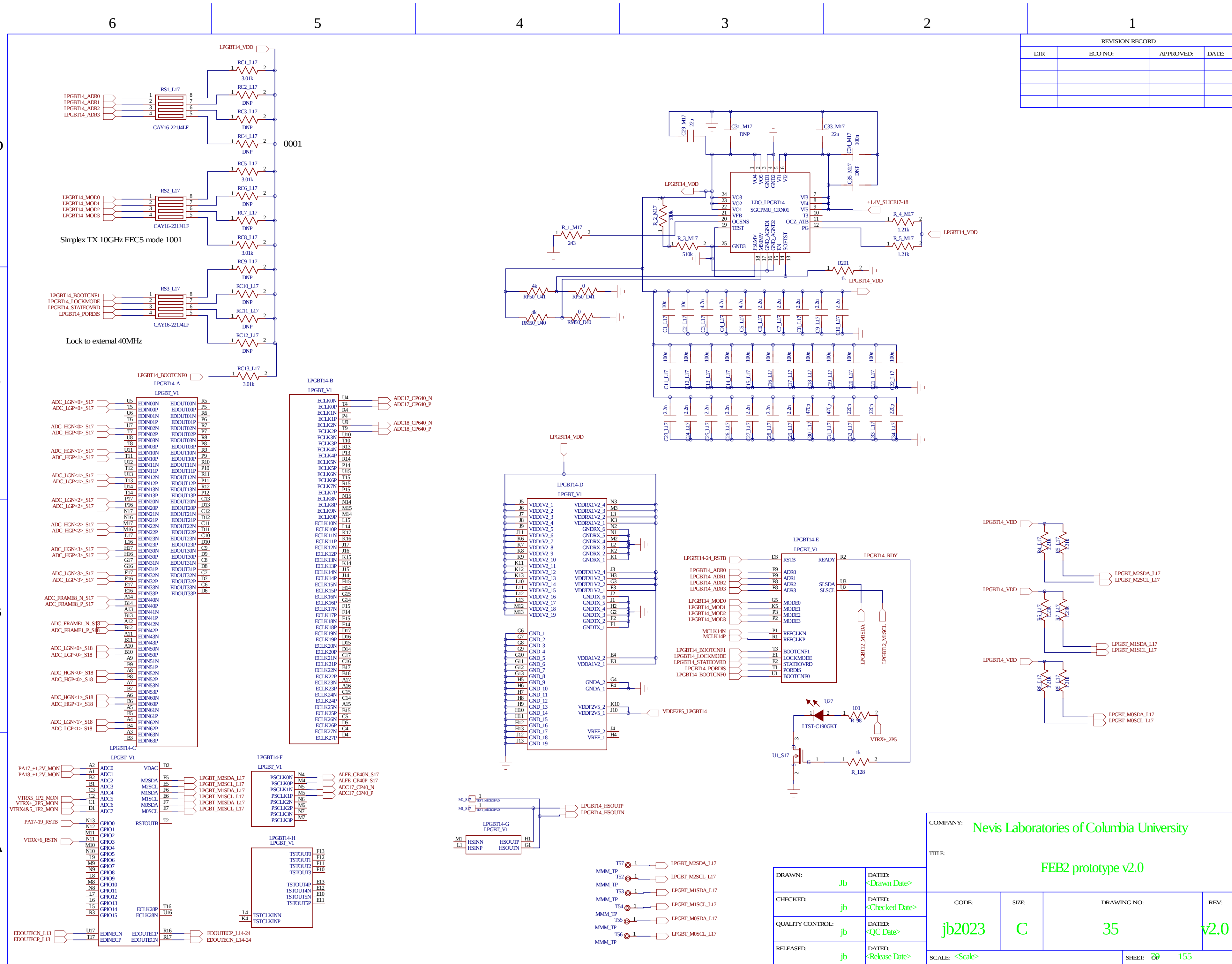
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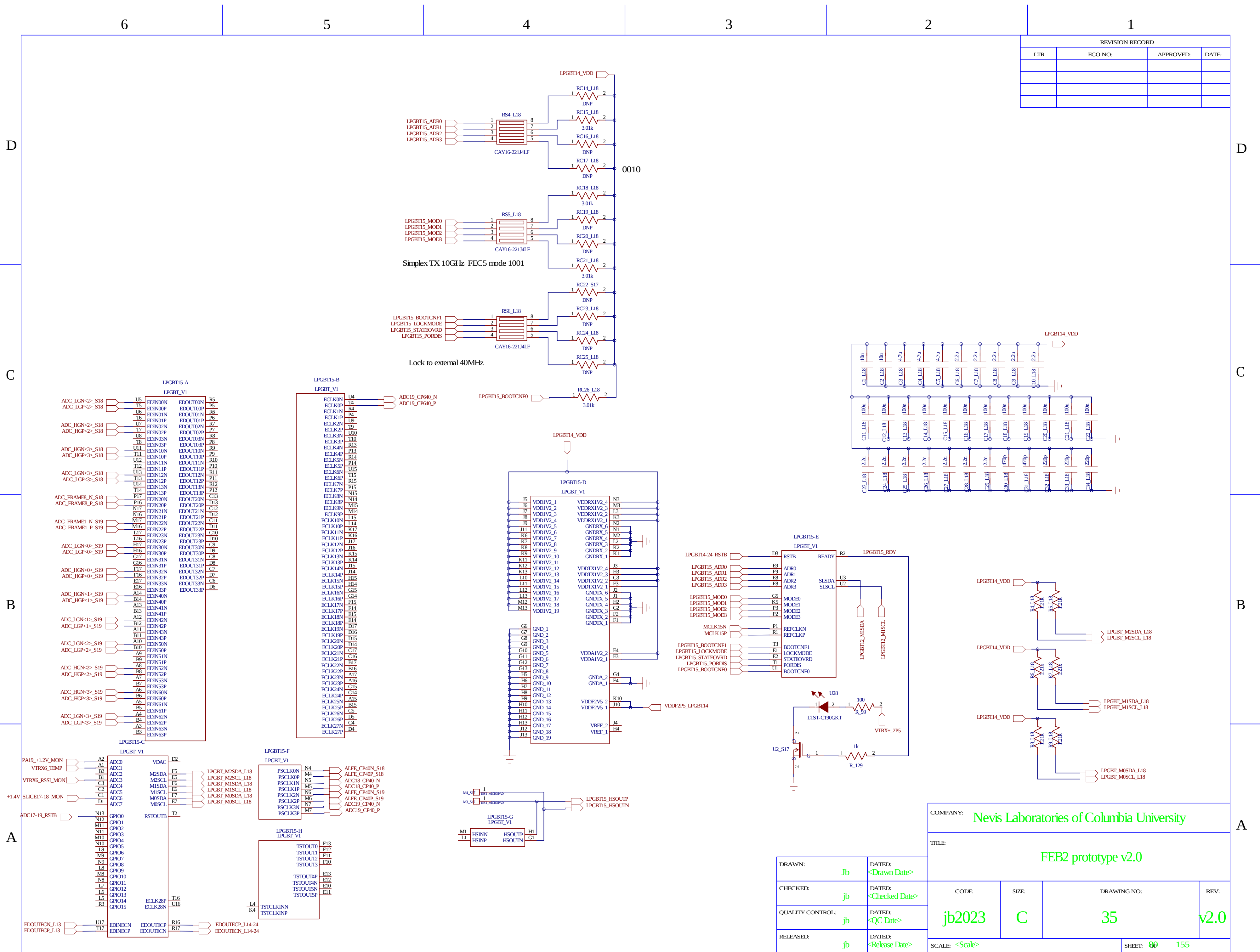


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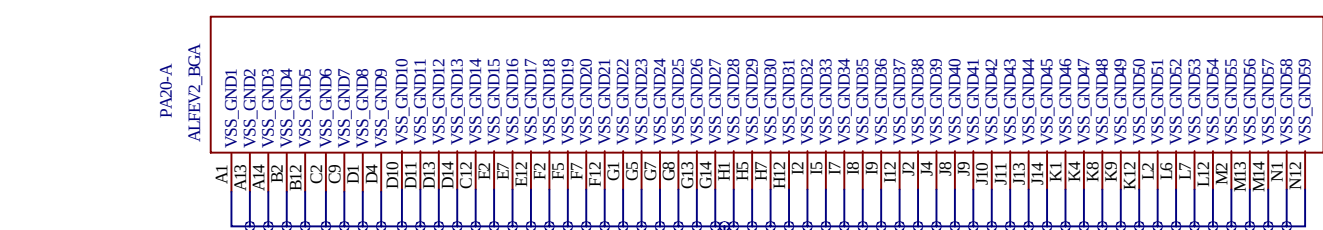
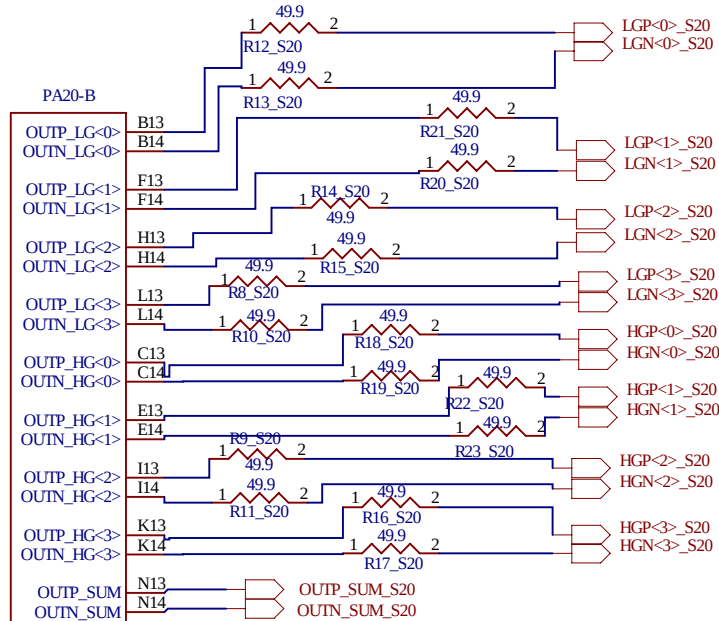
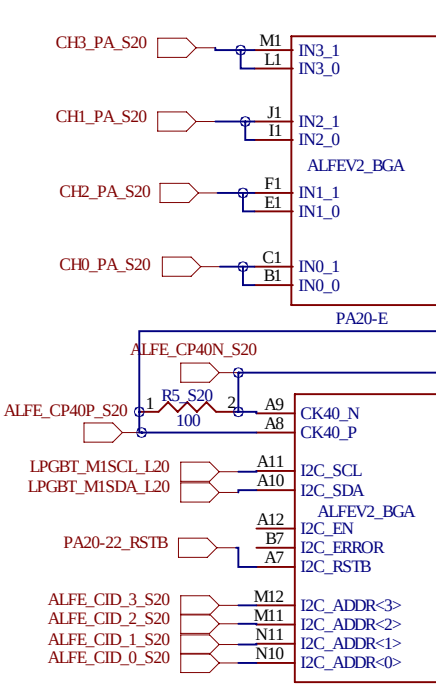
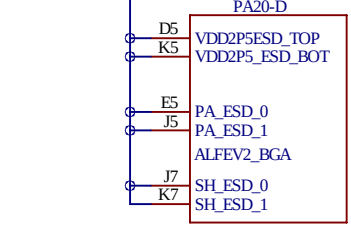
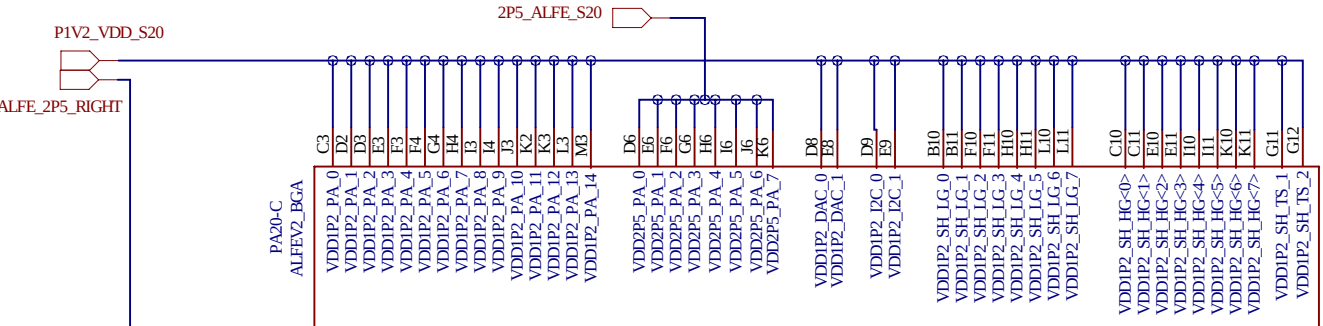
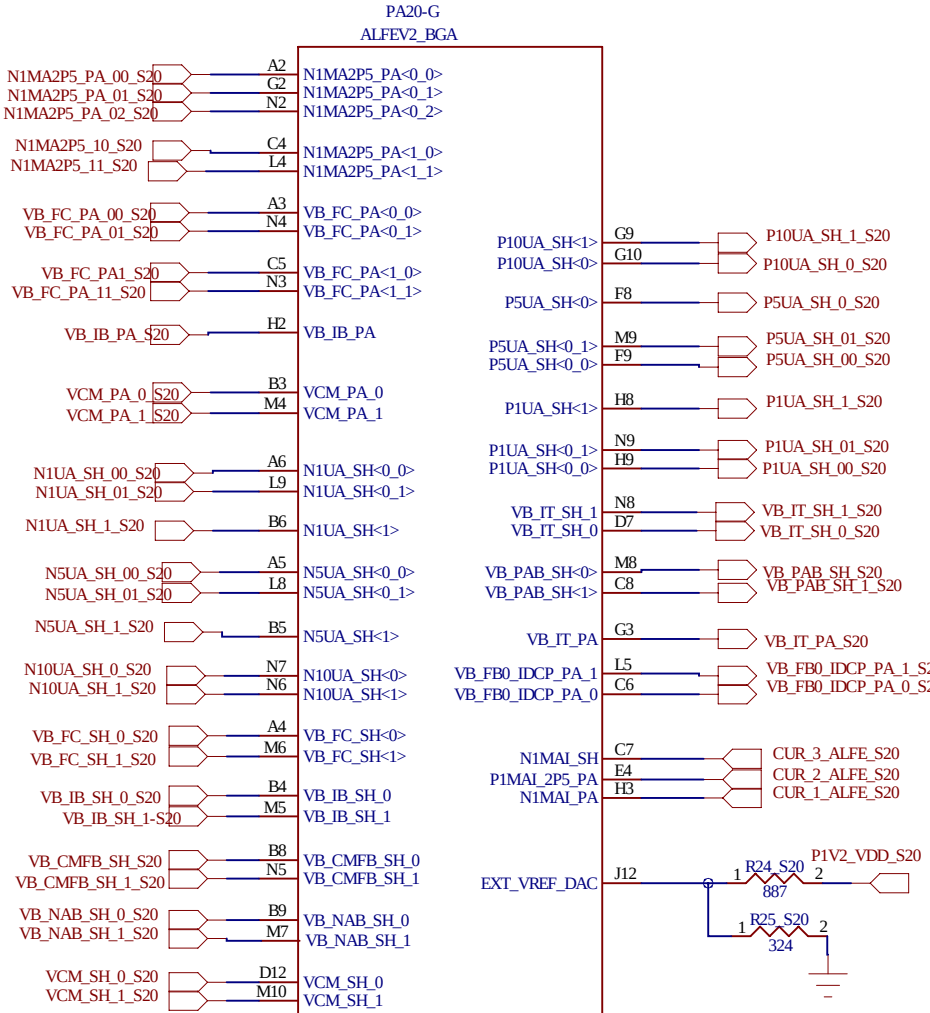
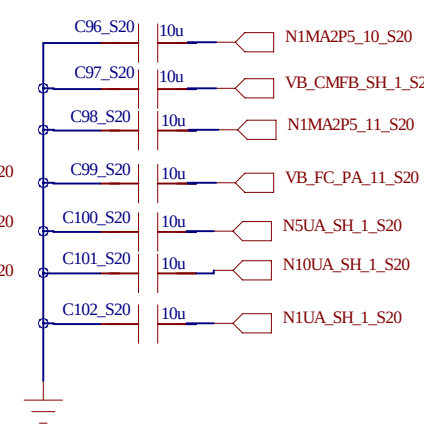
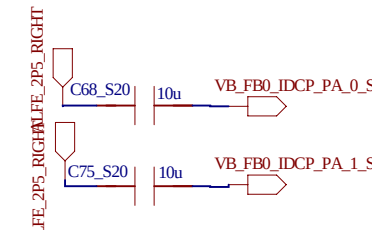
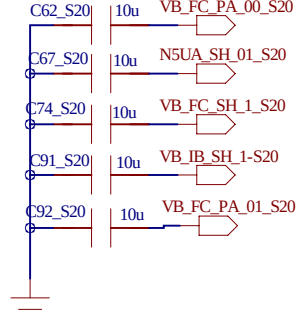
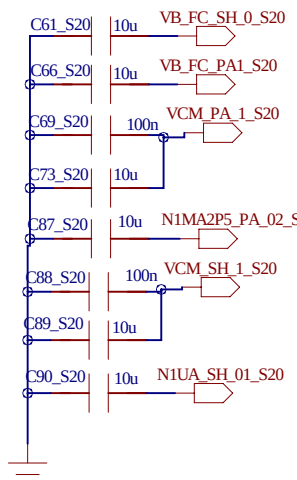
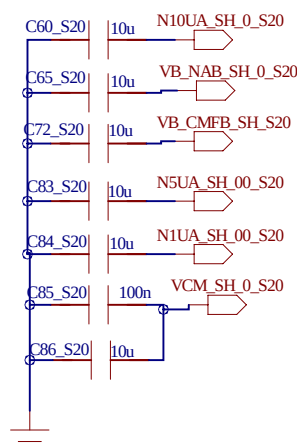
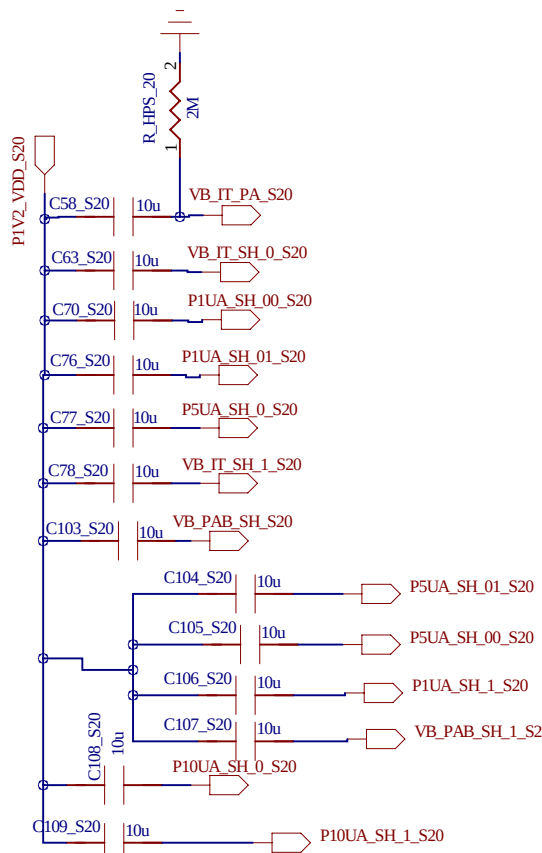
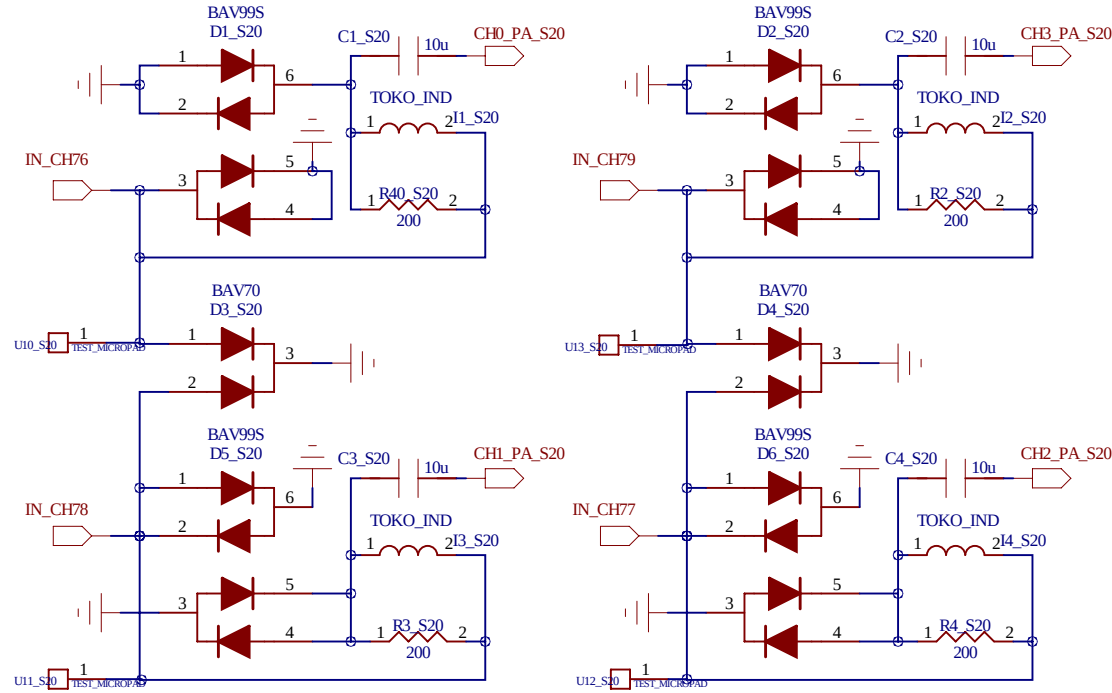
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REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



COMPANY: Nevis Laboratories of Columbia University			
TITLE: FEB2 prototype v2.0			
CODE: jb2023	SIZE: C	DRAWING NO: 35	REV: v2.0
SCALE: <Scale>		SHEET: 8# 155	

DRAWN: Jb	DATED: <Drawn Date>
CHECKED: jb	DATED: <Checked Date>
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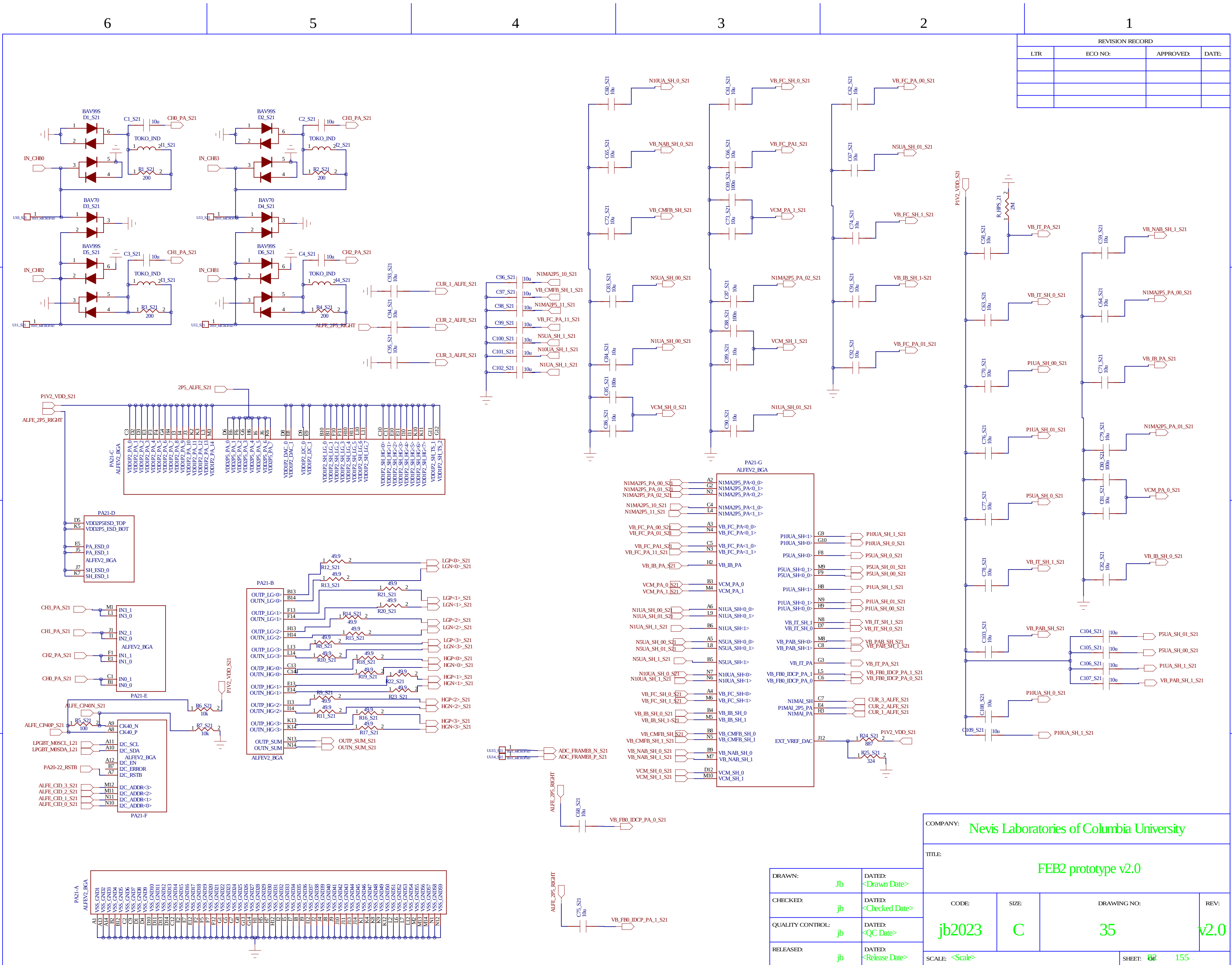
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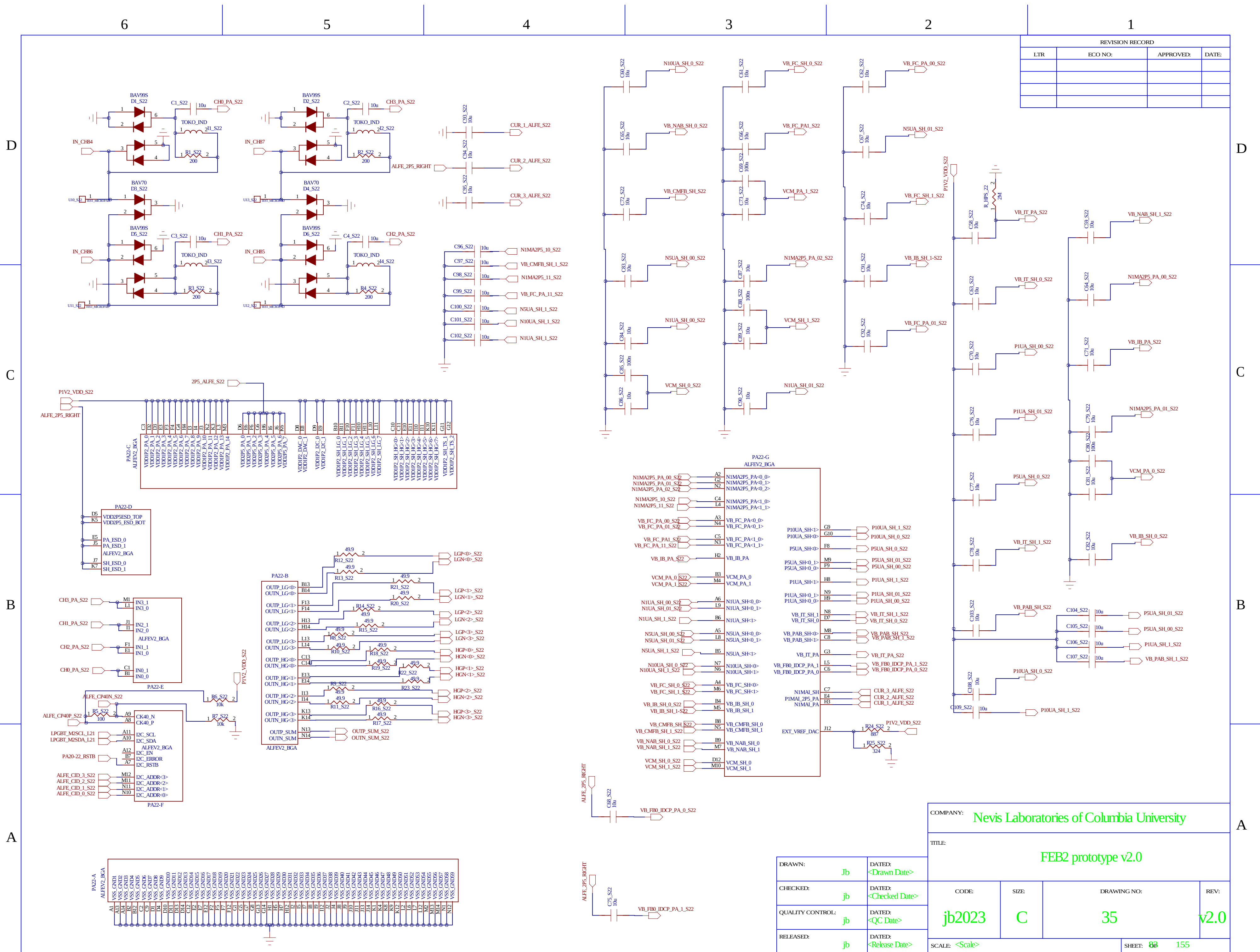
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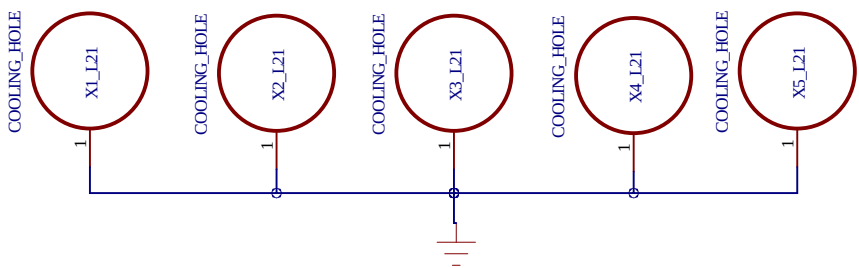
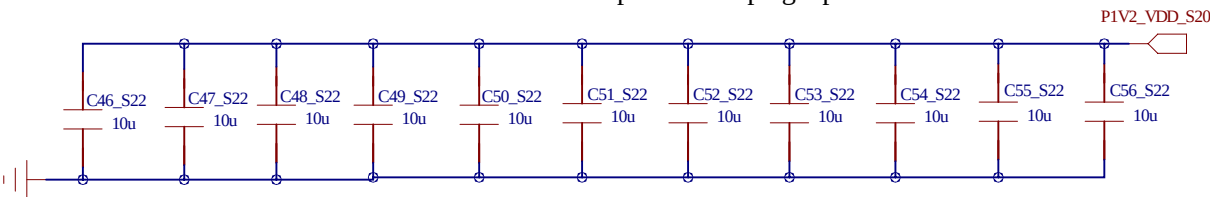
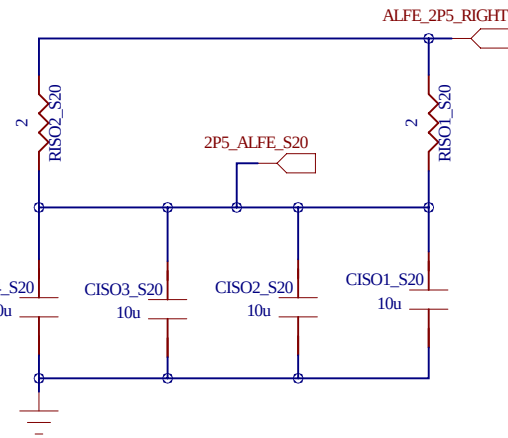
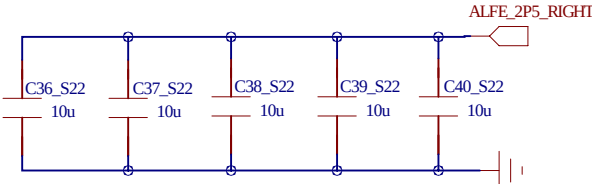
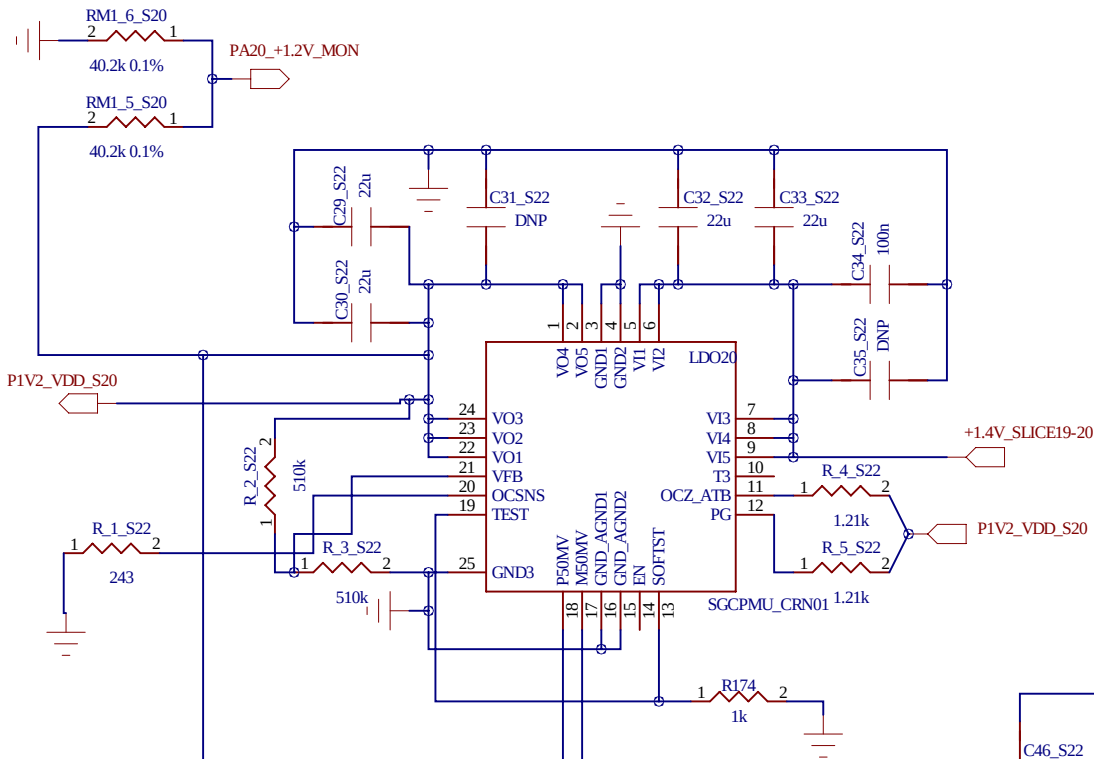
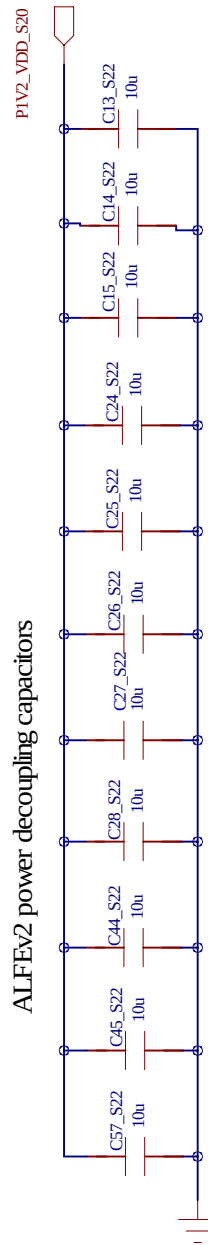
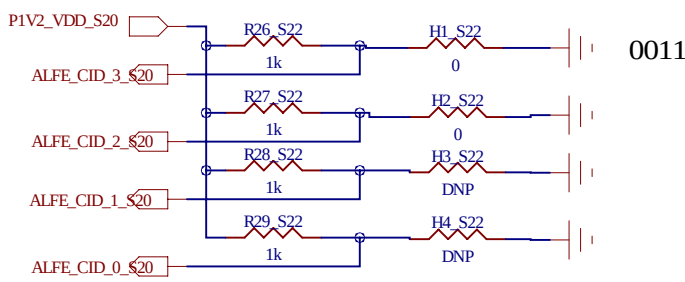
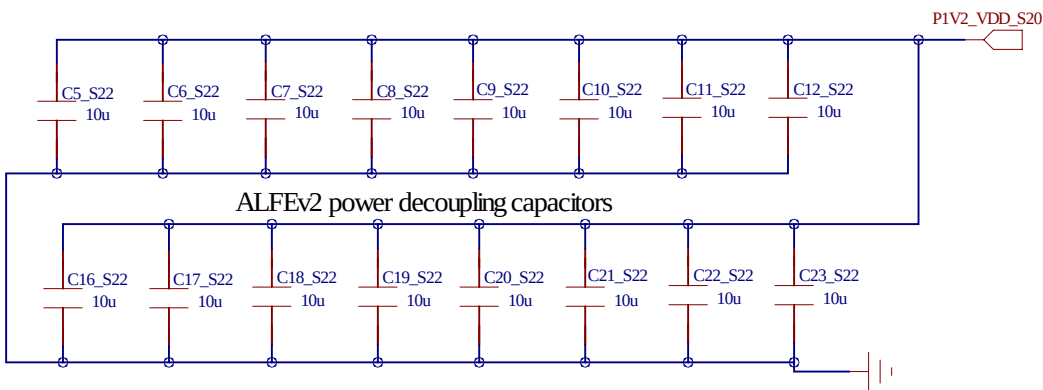
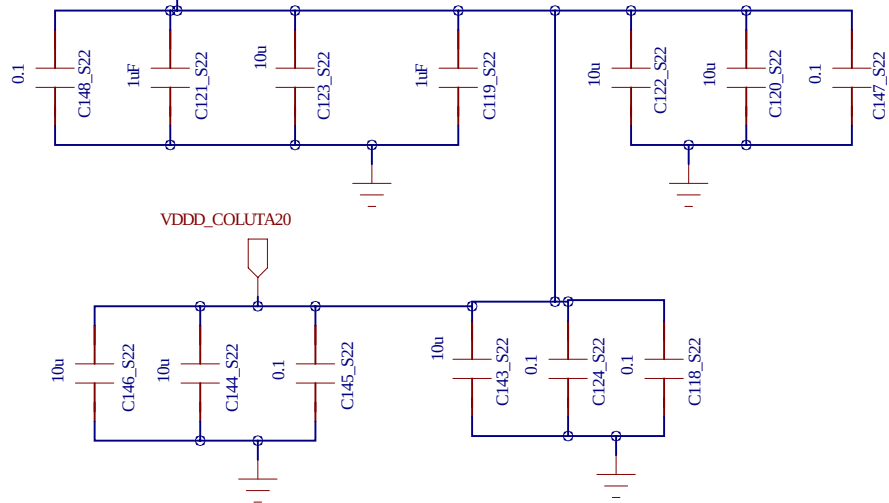
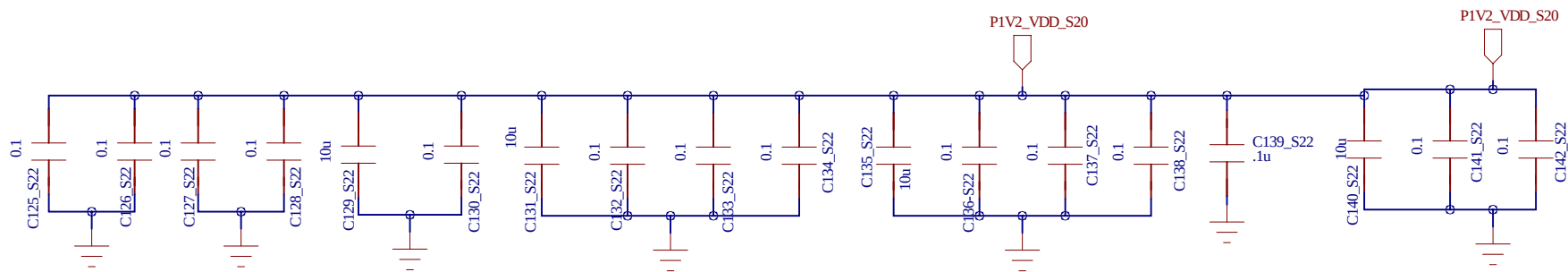
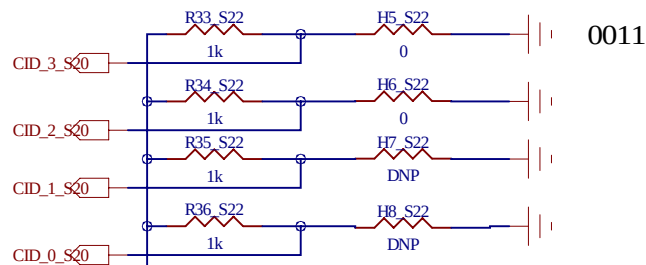
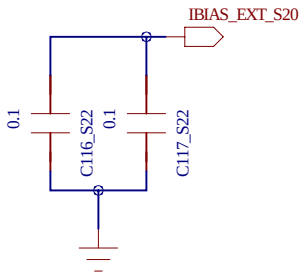
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REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:



COMPANY: Nevis Laboratories of Columbia University			
TITLE: FEB2 prototype v2.0			
CODE: jb2023	SIZE: C	DRAWING NO: 35	REV: v2.0
SCALE: <Scale>		SHEET: 84 155	

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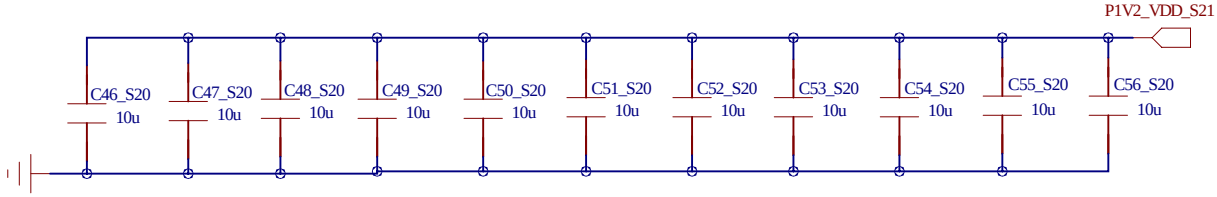
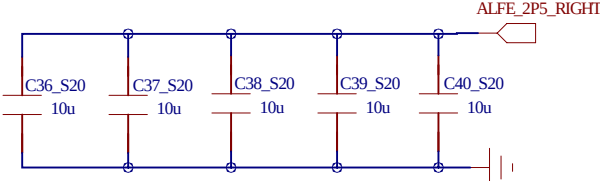
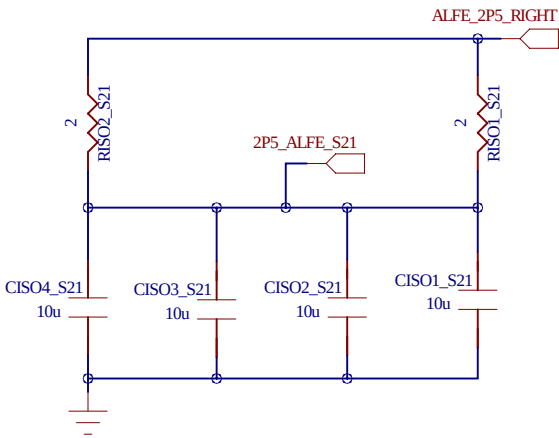
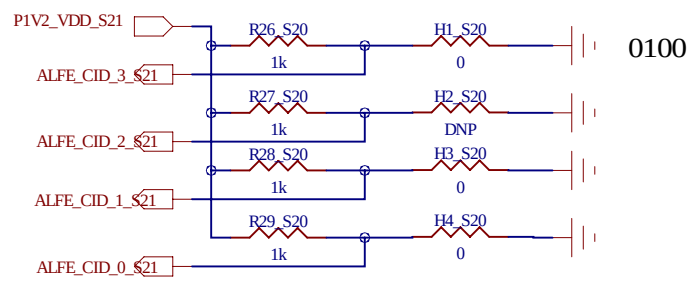
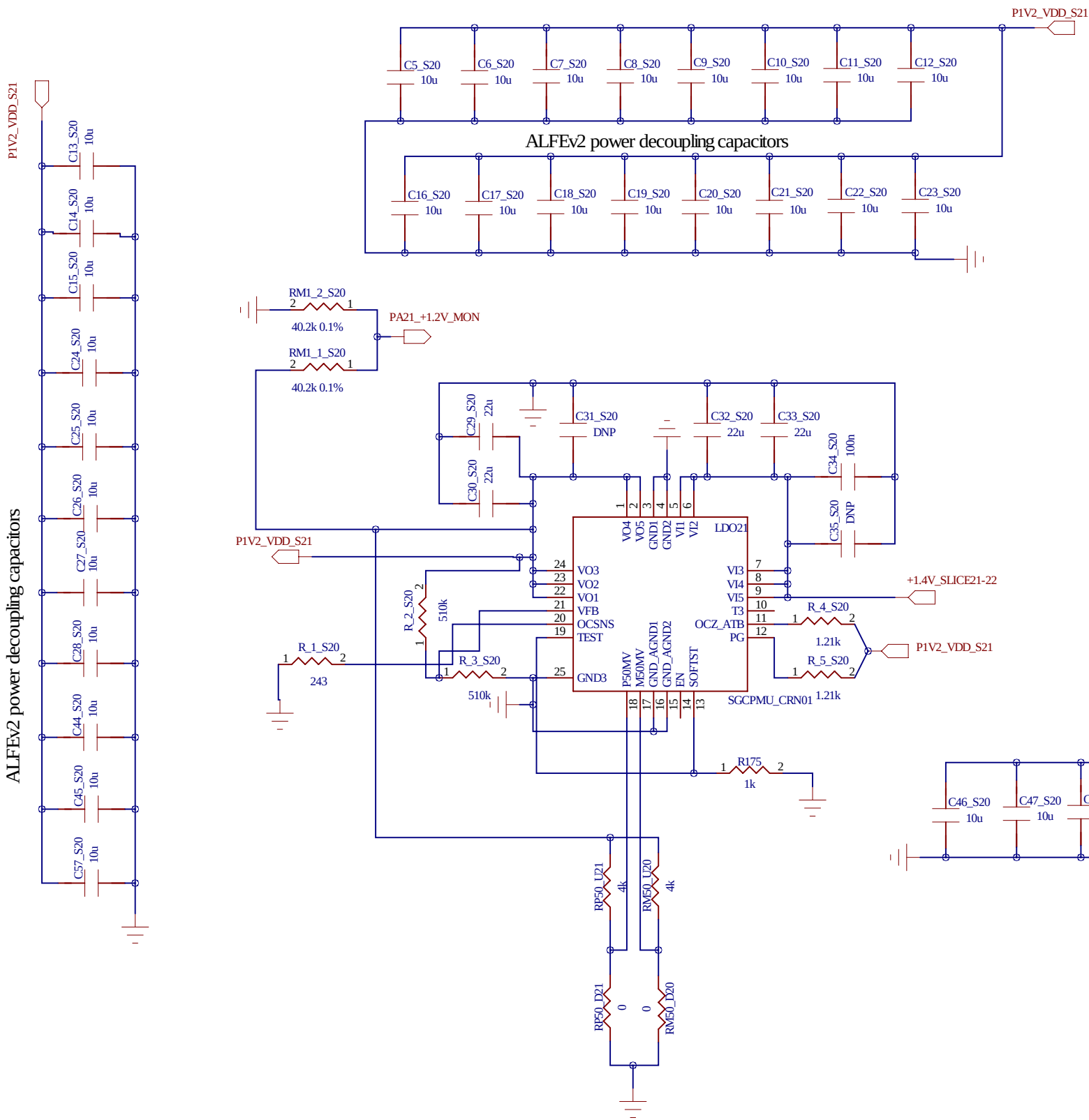
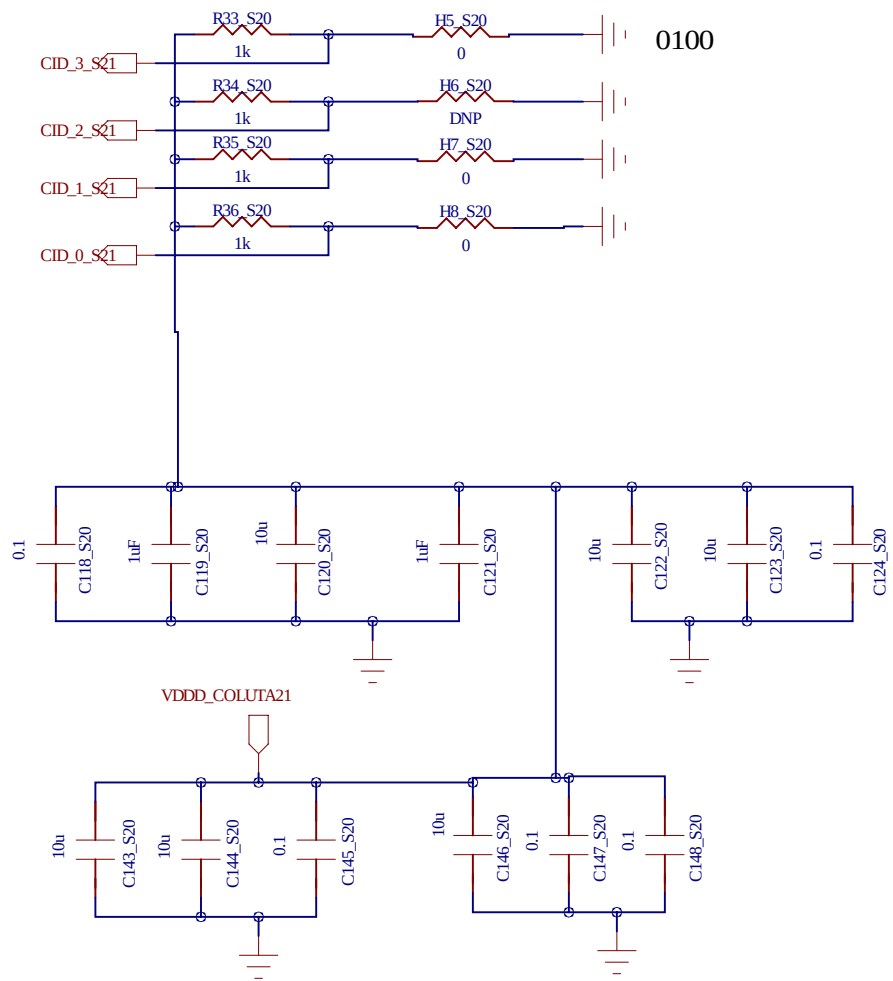
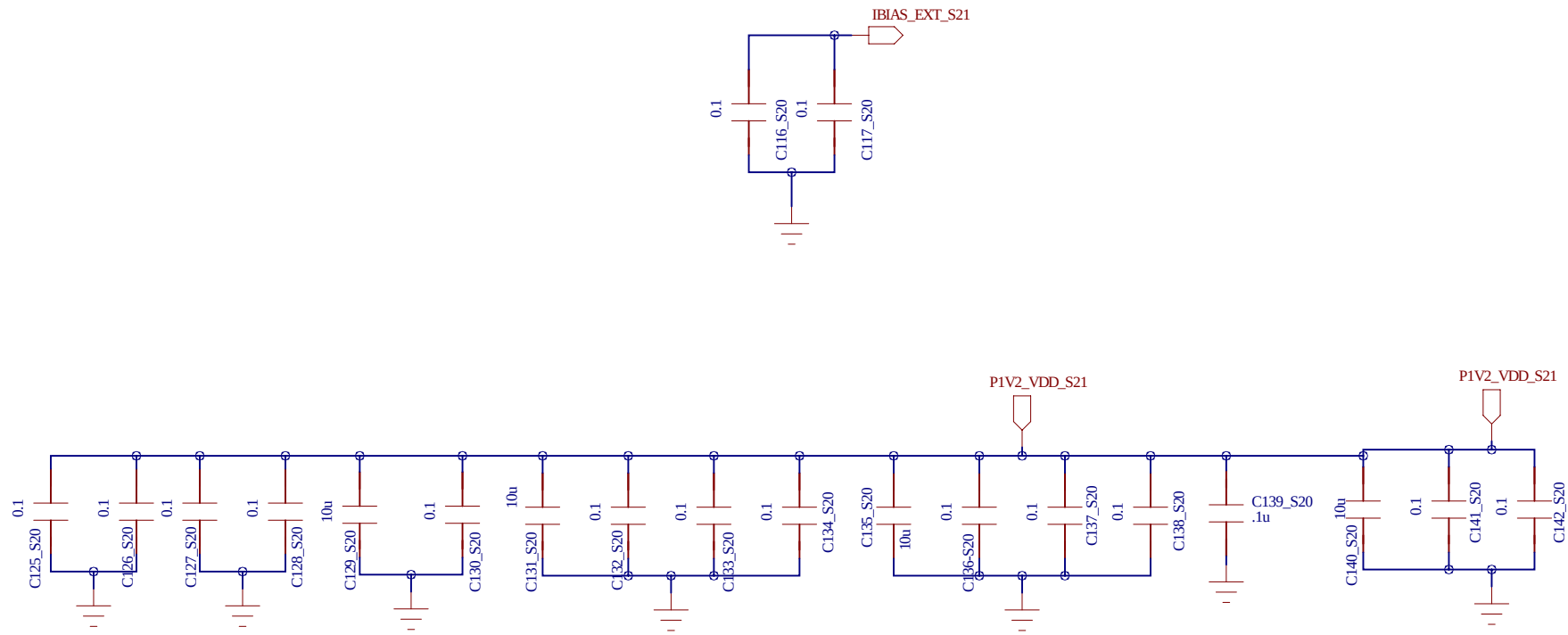
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REVISION RECORD			
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COMPANY: Nevis Laboratories of Columbia University			
TITLE: FEB2 prototype v2.0			
CODE: jb2023	SIZE: C	DRAWING NO: 35	REV: v2.0
SCALE: <Scale>		SHEET: 85 155	

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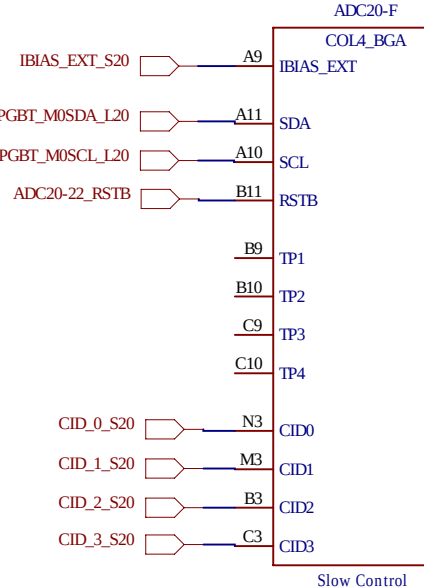
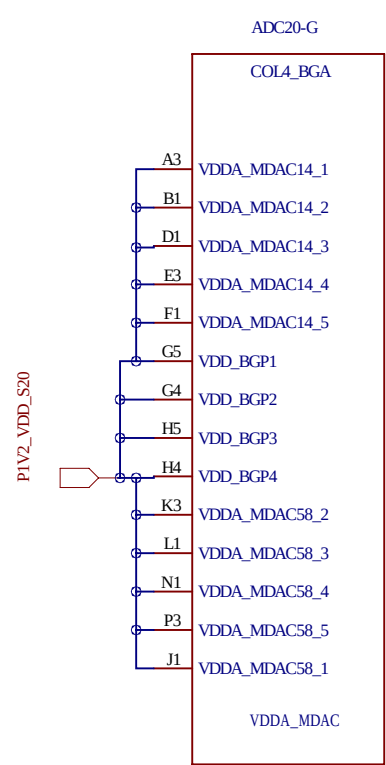
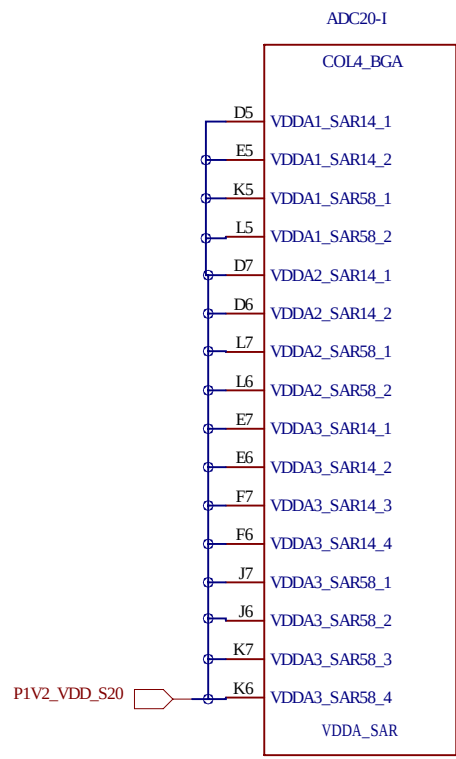
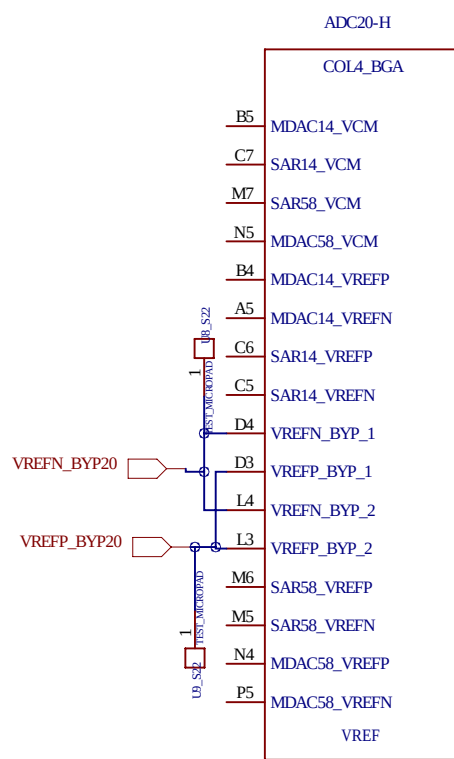
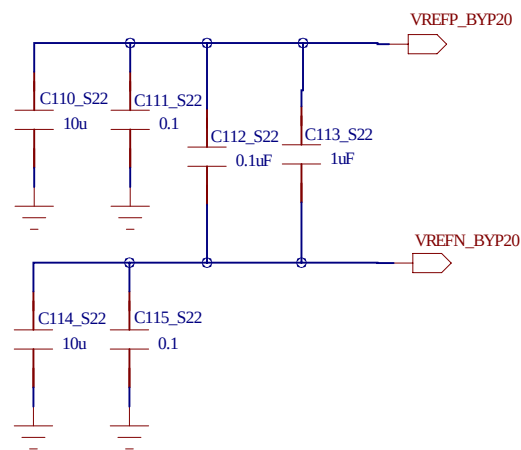
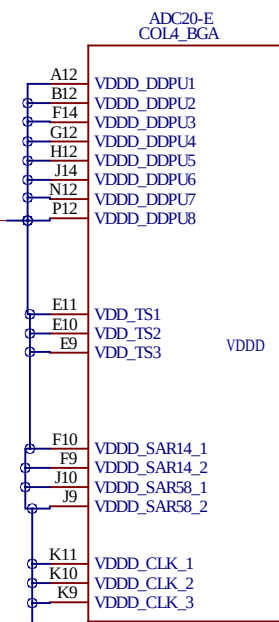
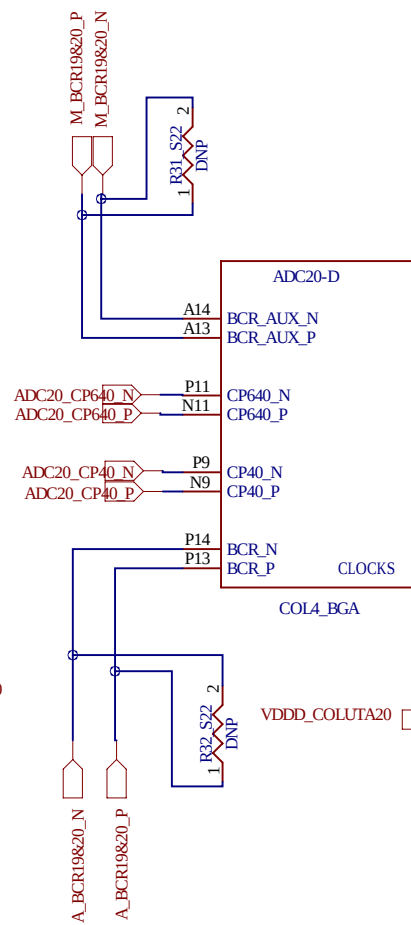
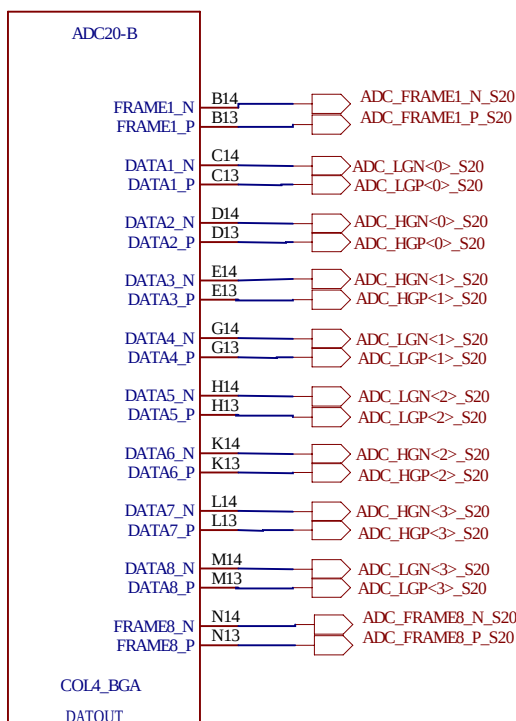
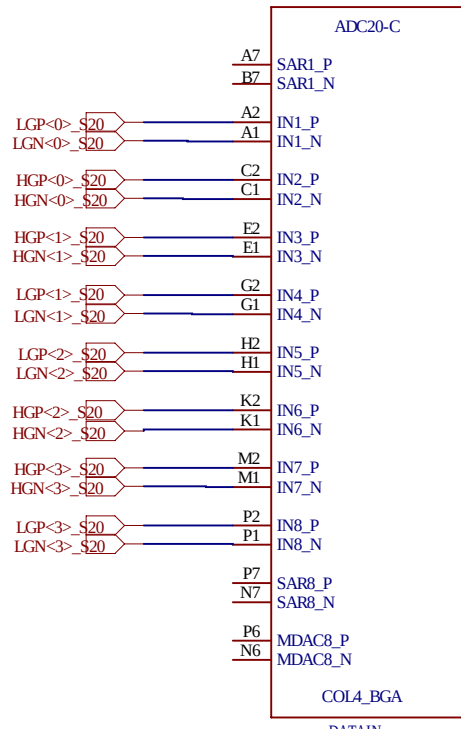
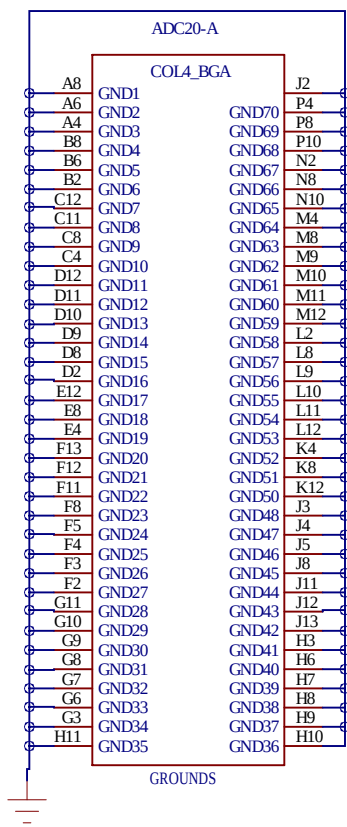
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REVISION RECORD			
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COMPANY: Nevis Laboratories of Columbia University			
TITLE: FEB2 prototype v2.0			
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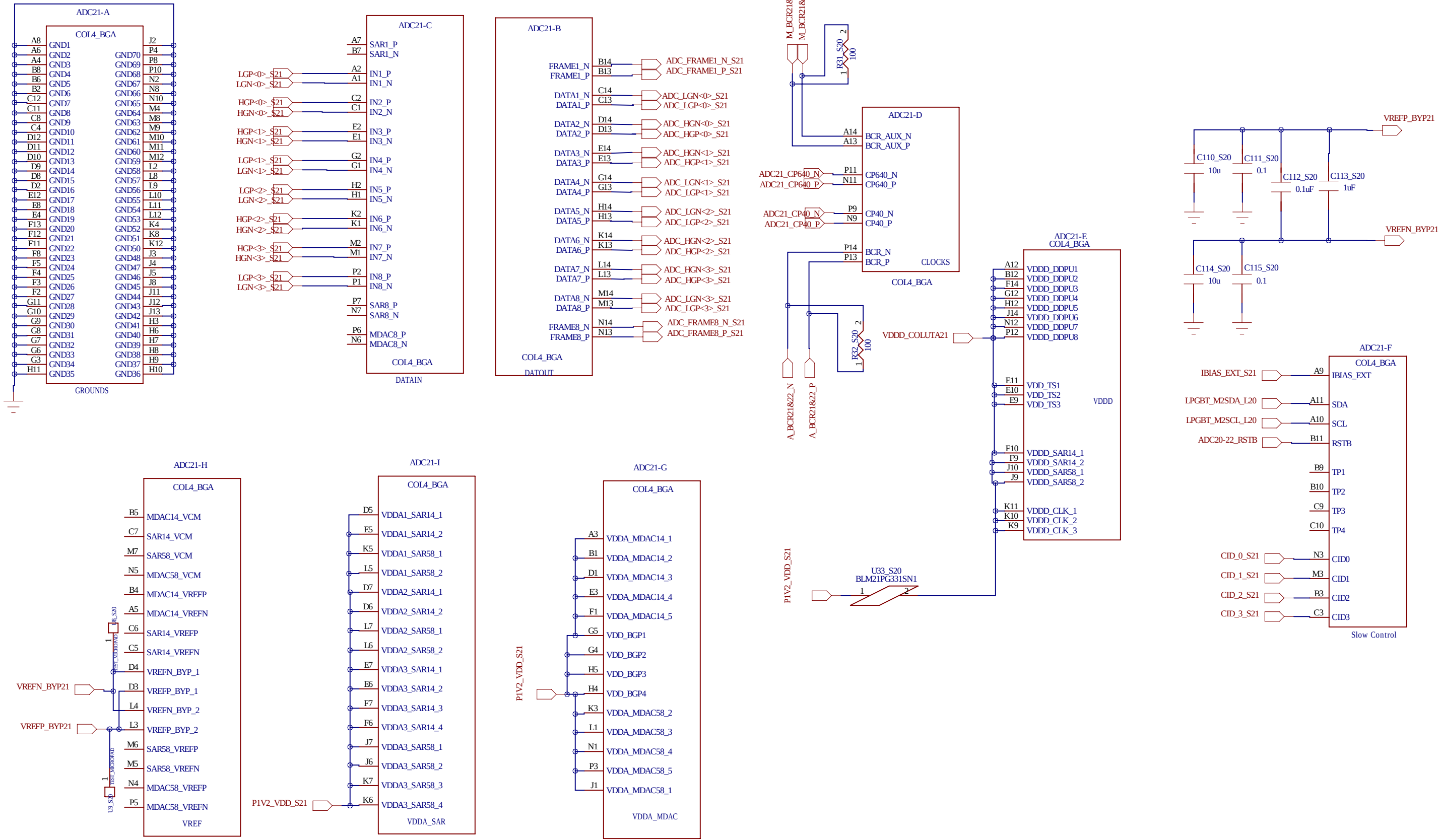
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REVISION RECORD			
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TITLE: FEB2 prototype v2.0			
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REVISION RECORD			
LTR	ECO NO:	APPROVED:	DATE:

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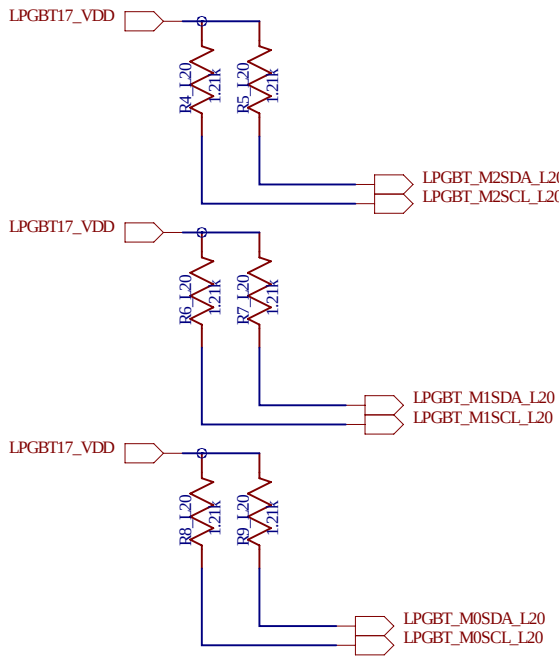
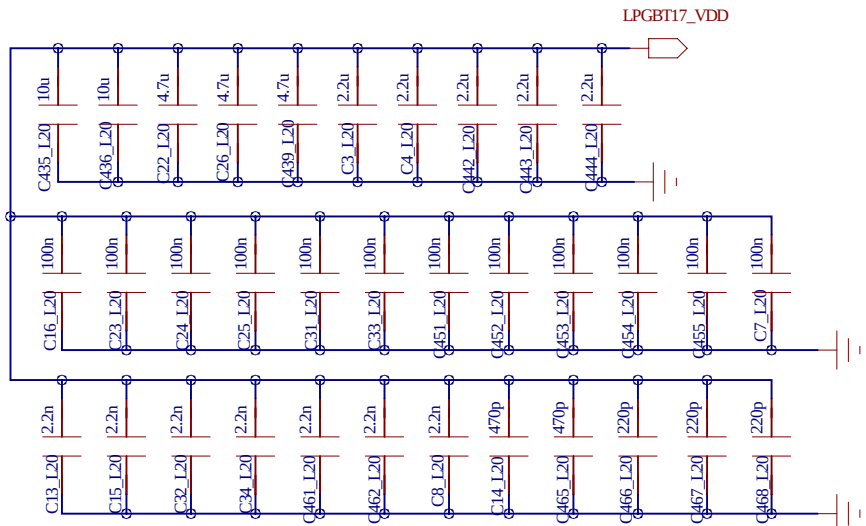
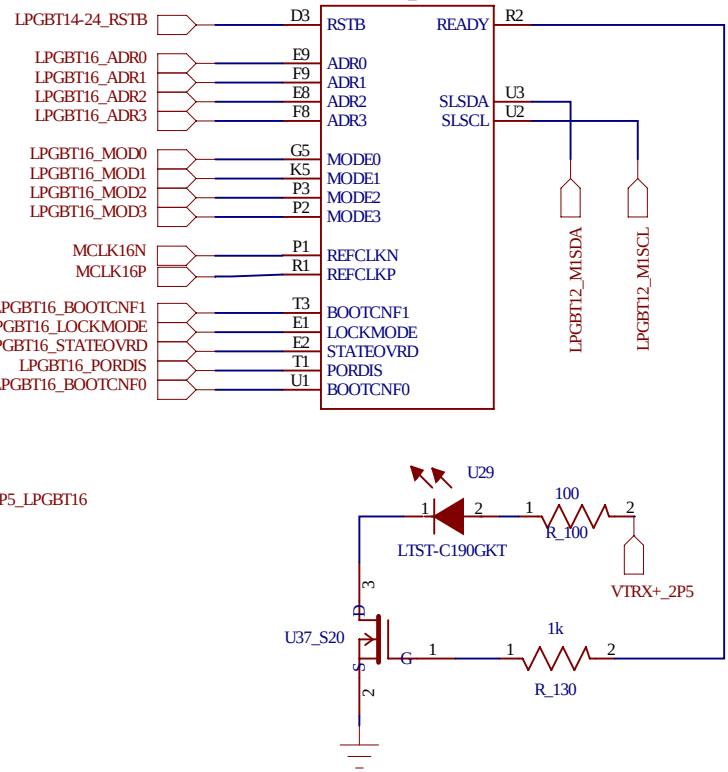
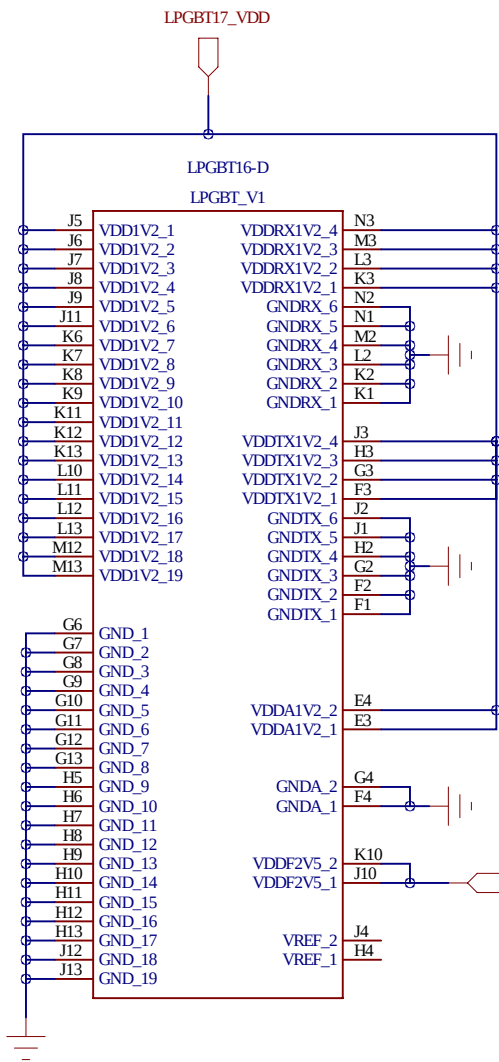
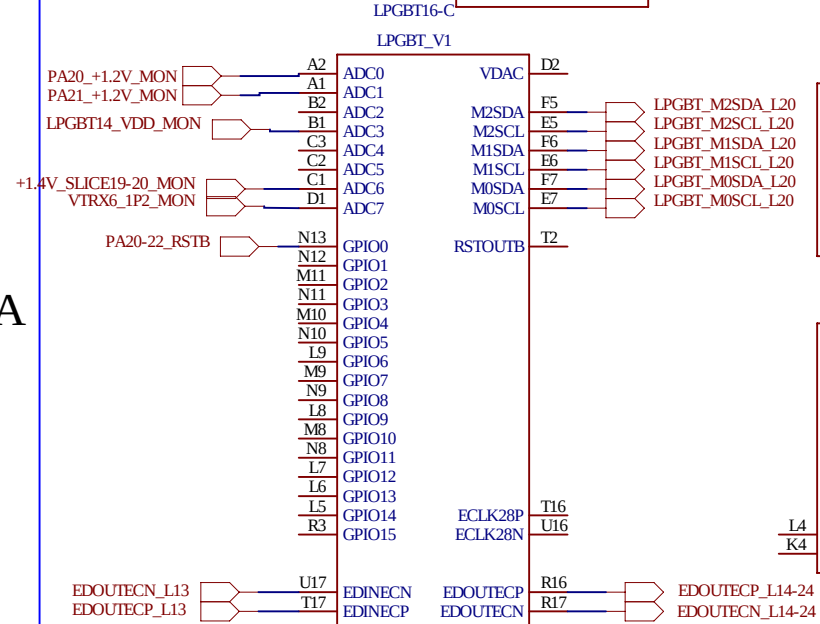
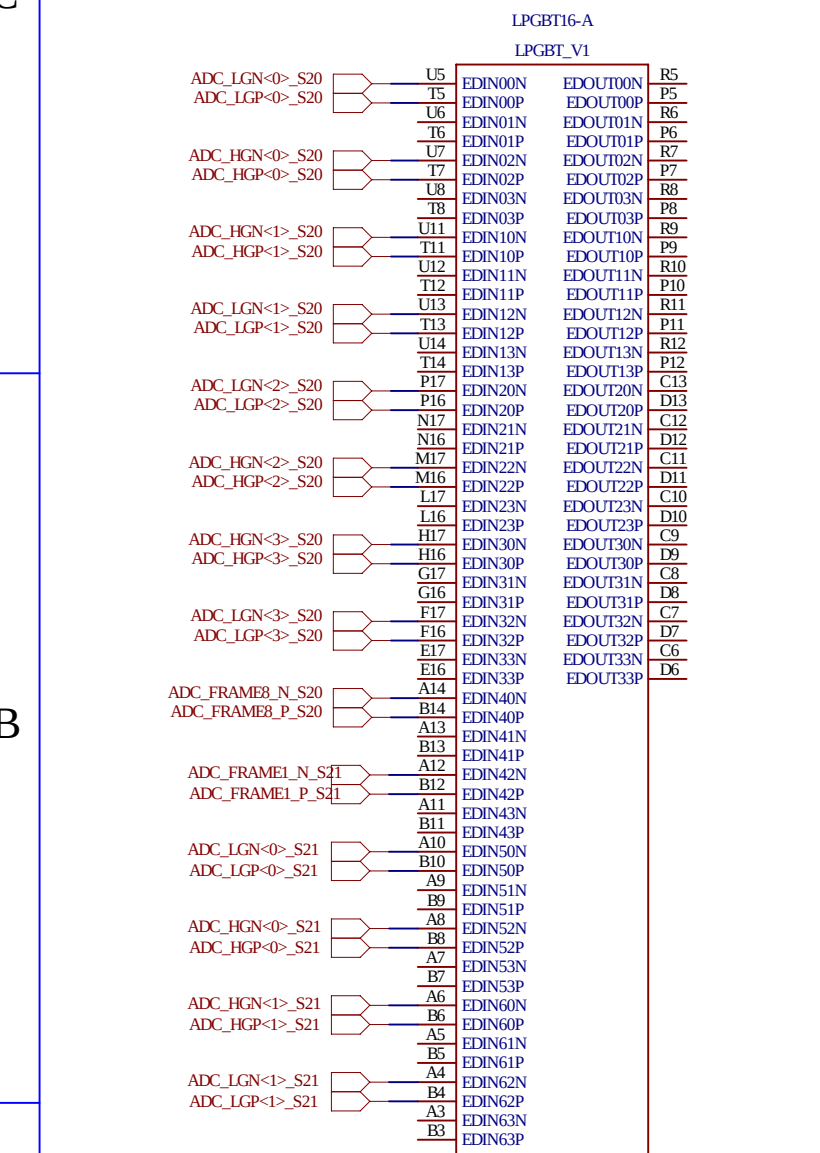
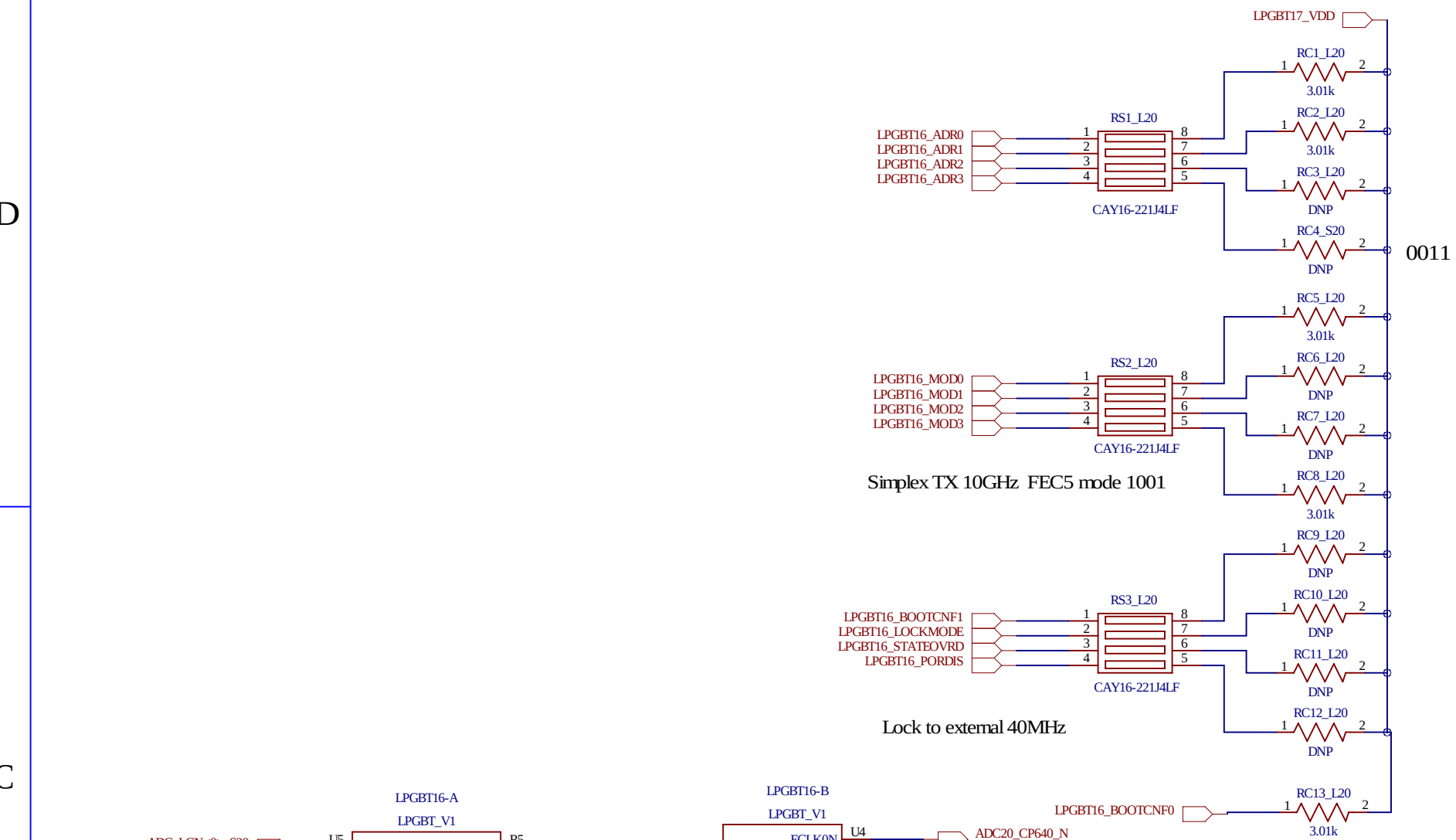
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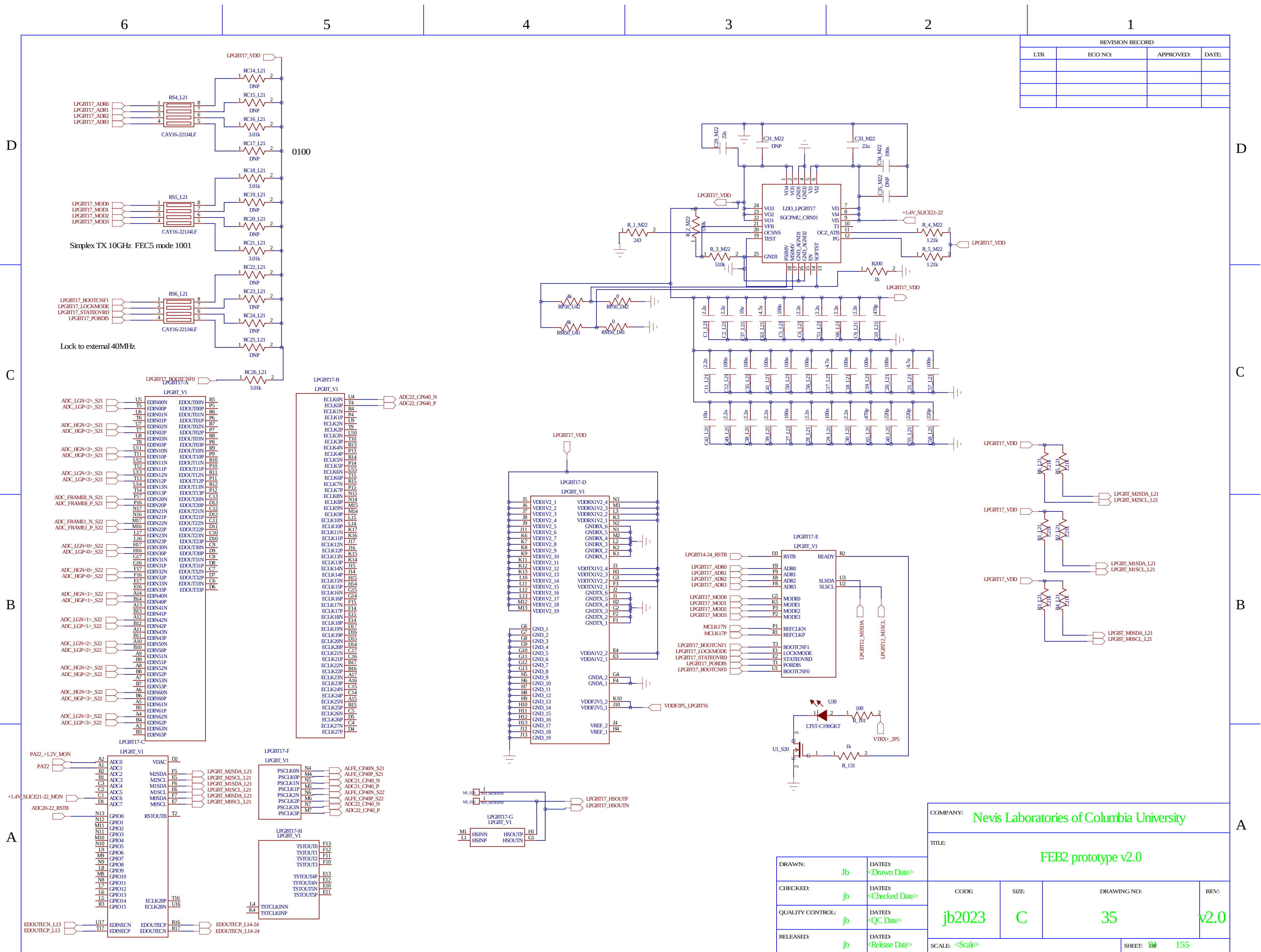
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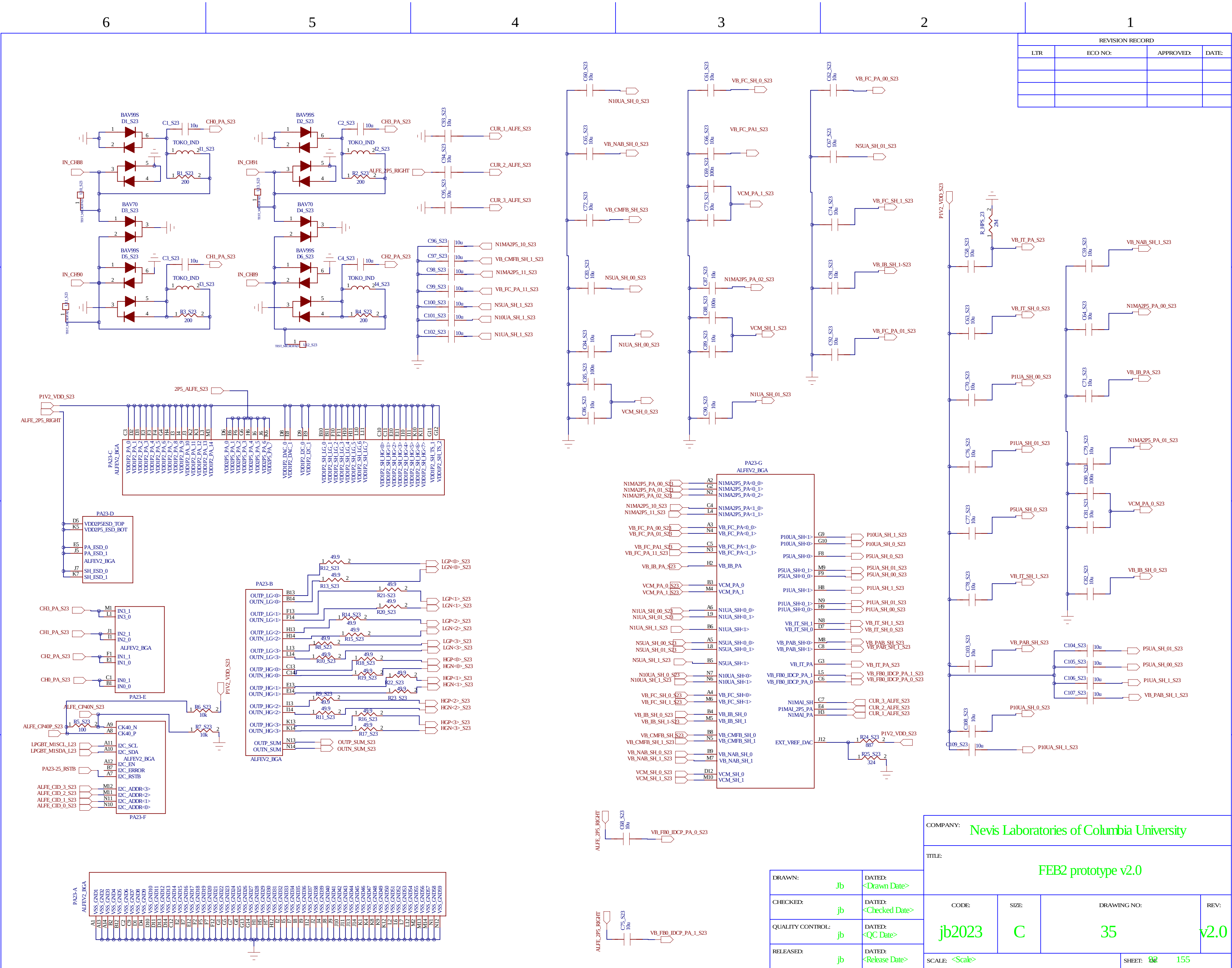
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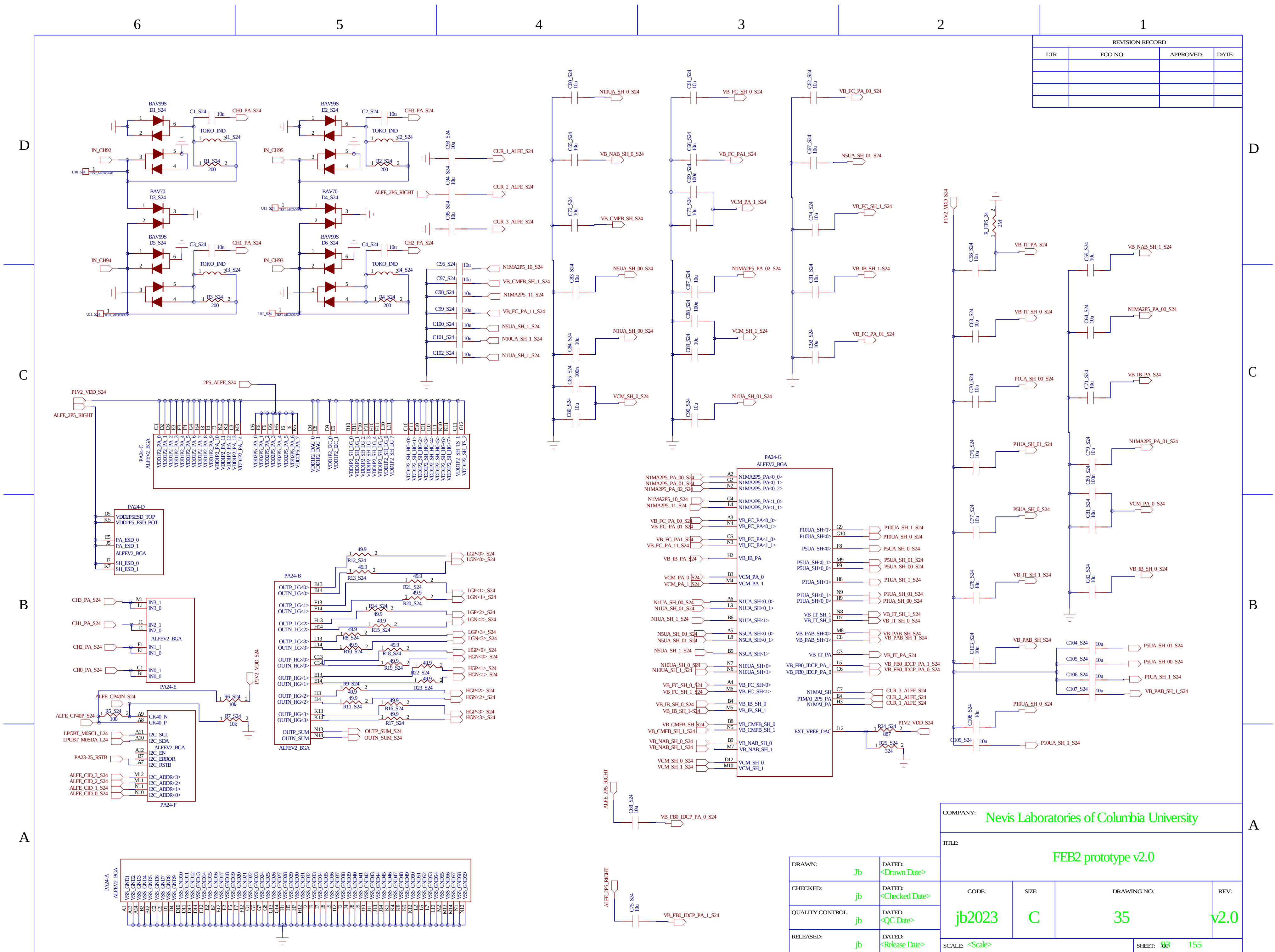
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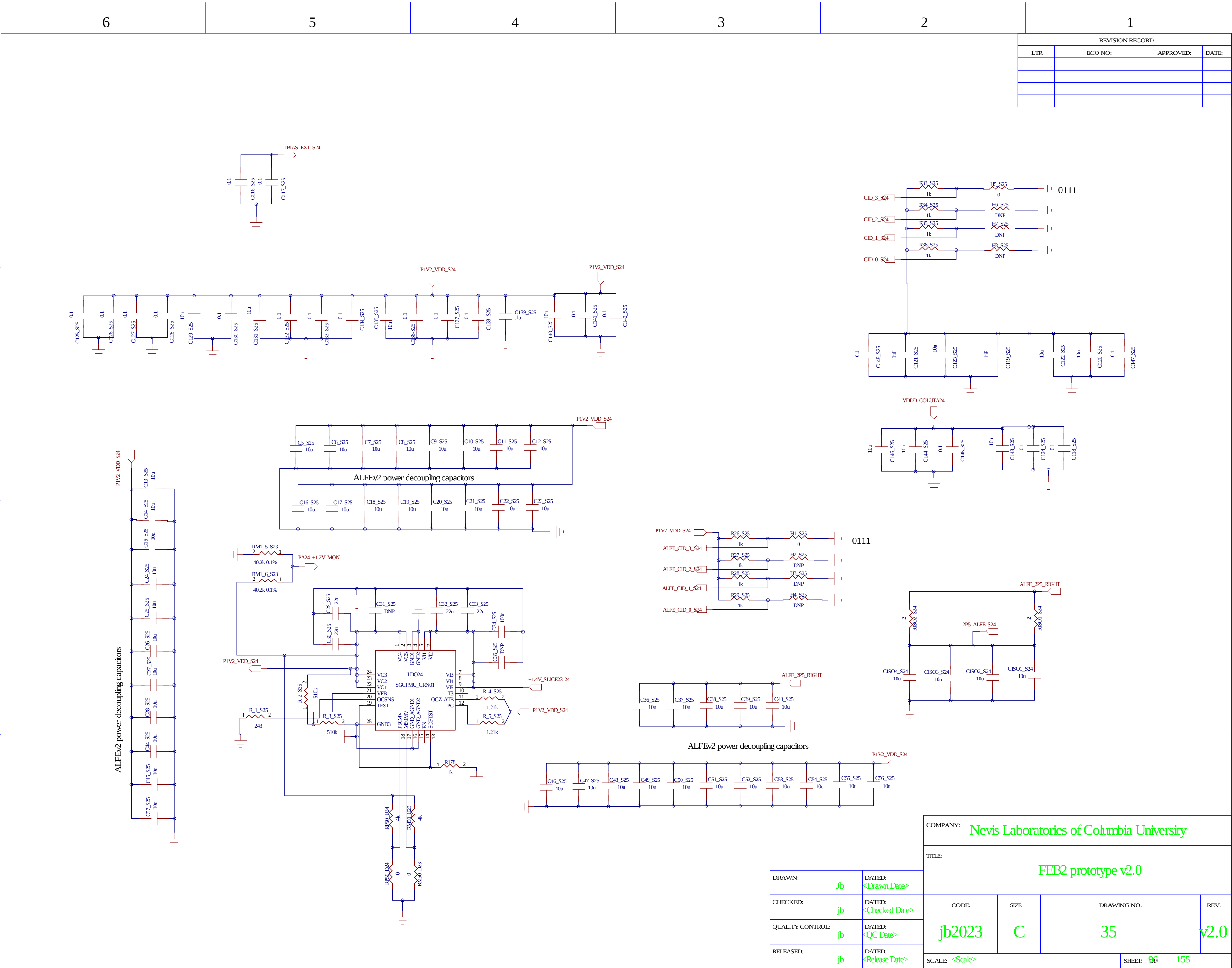


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TITLE: FEB2 prototype v2.0			
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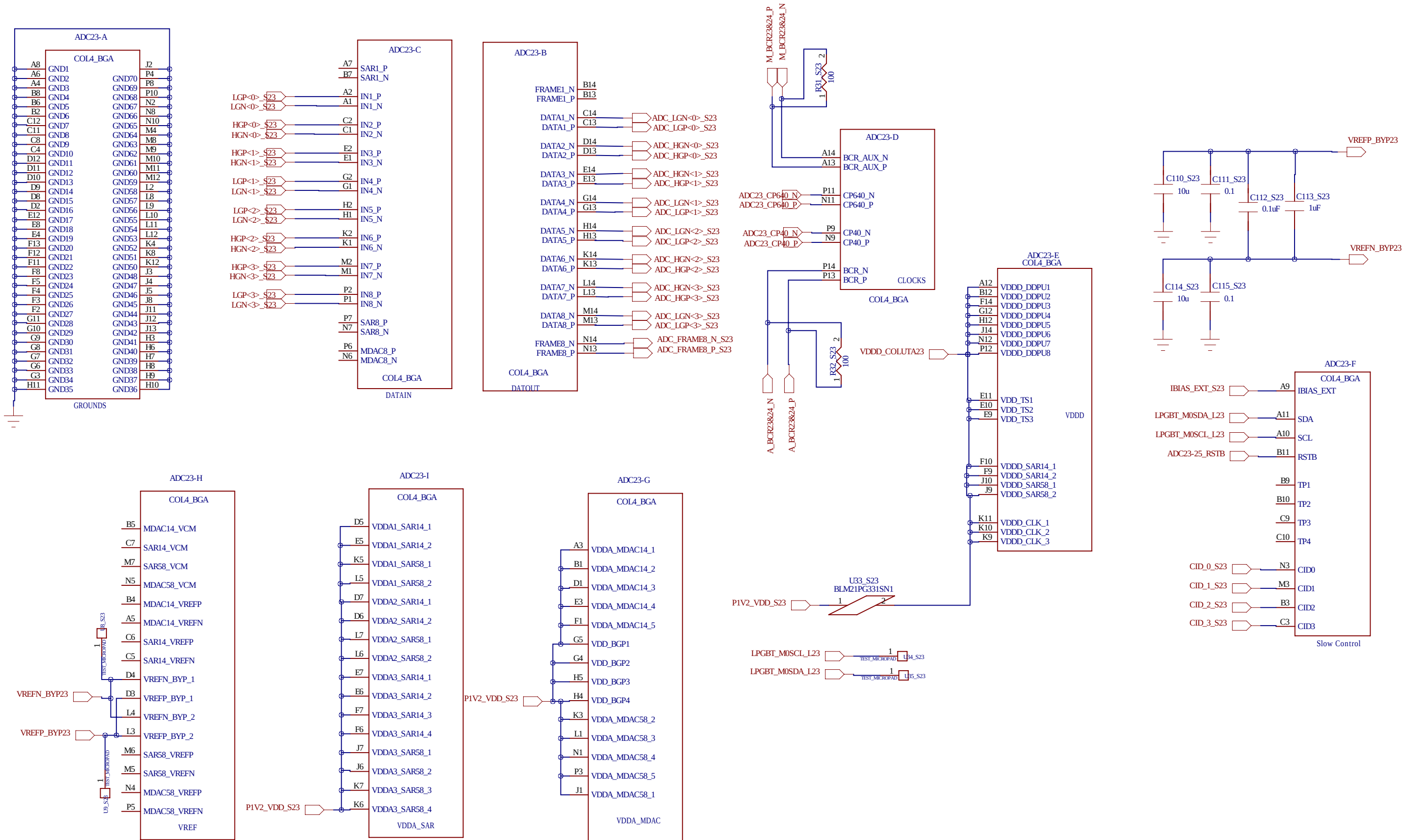
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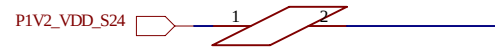
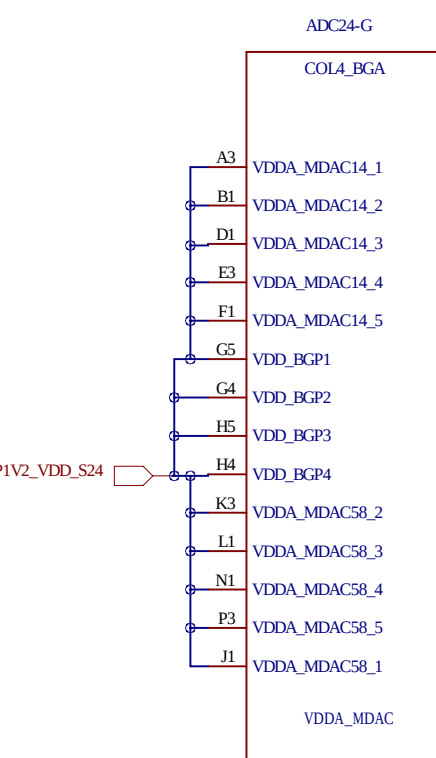
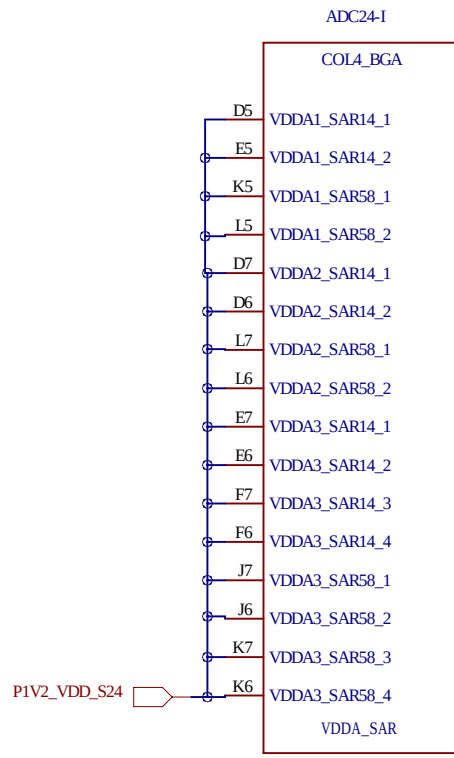
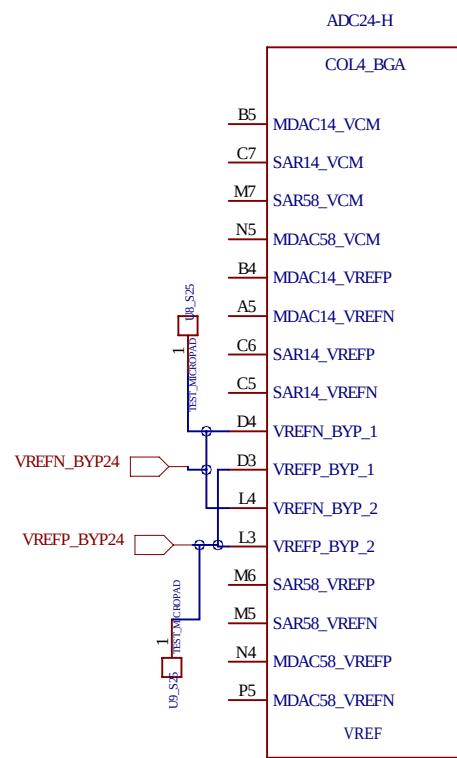
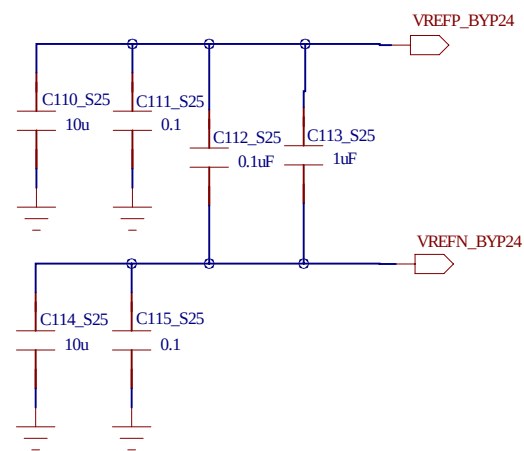
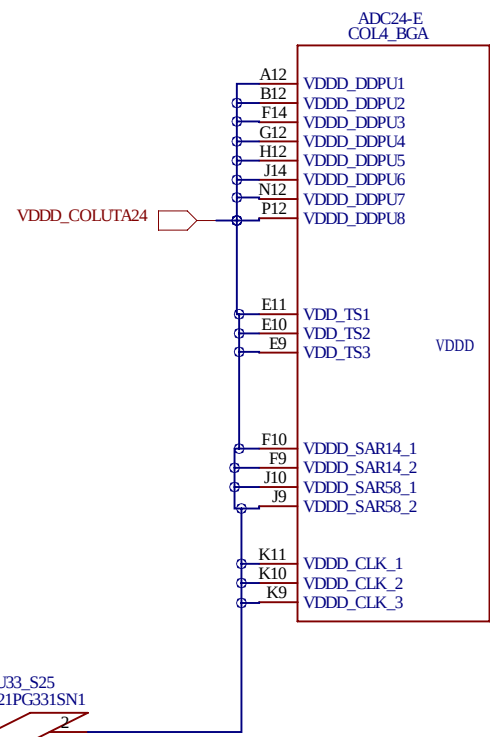
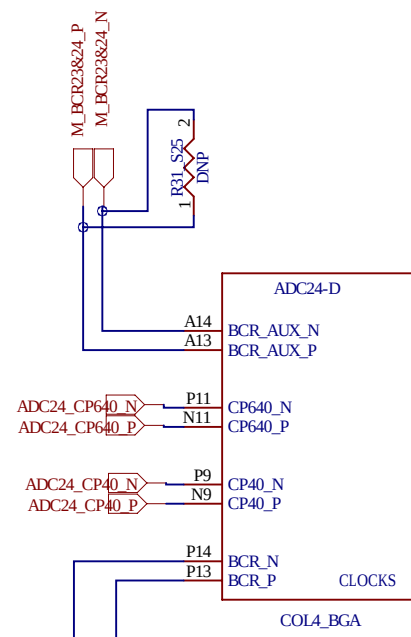
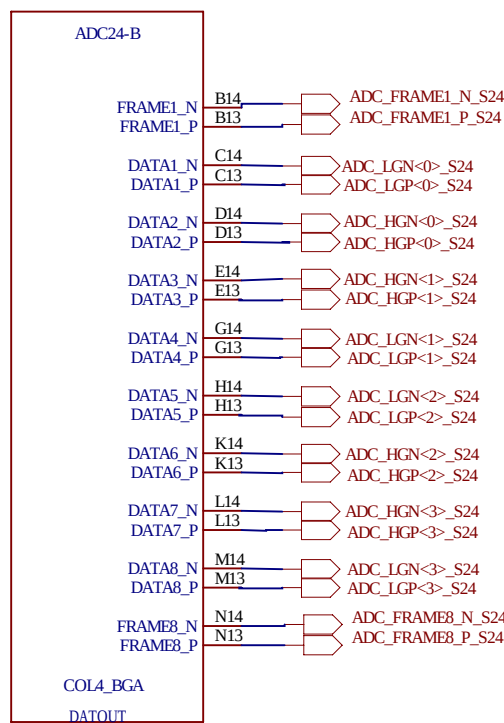
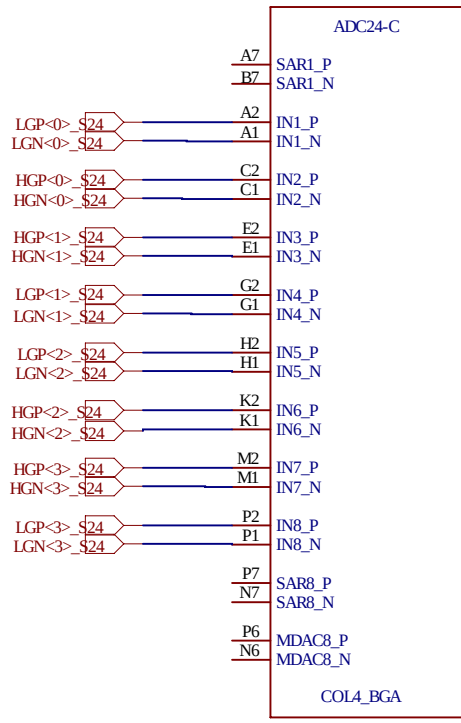
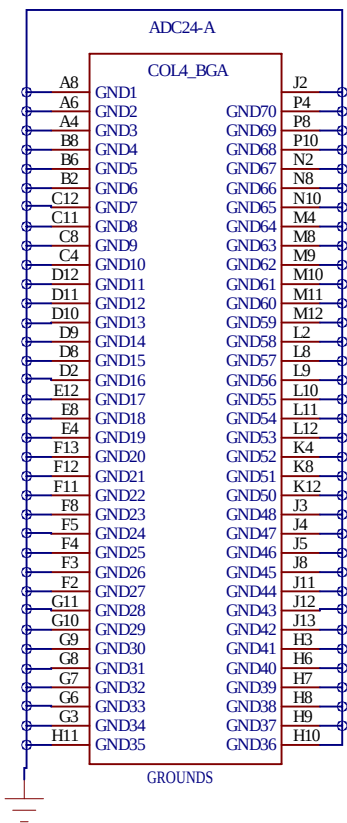
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TITLE: FEB2 prototype v2.0			
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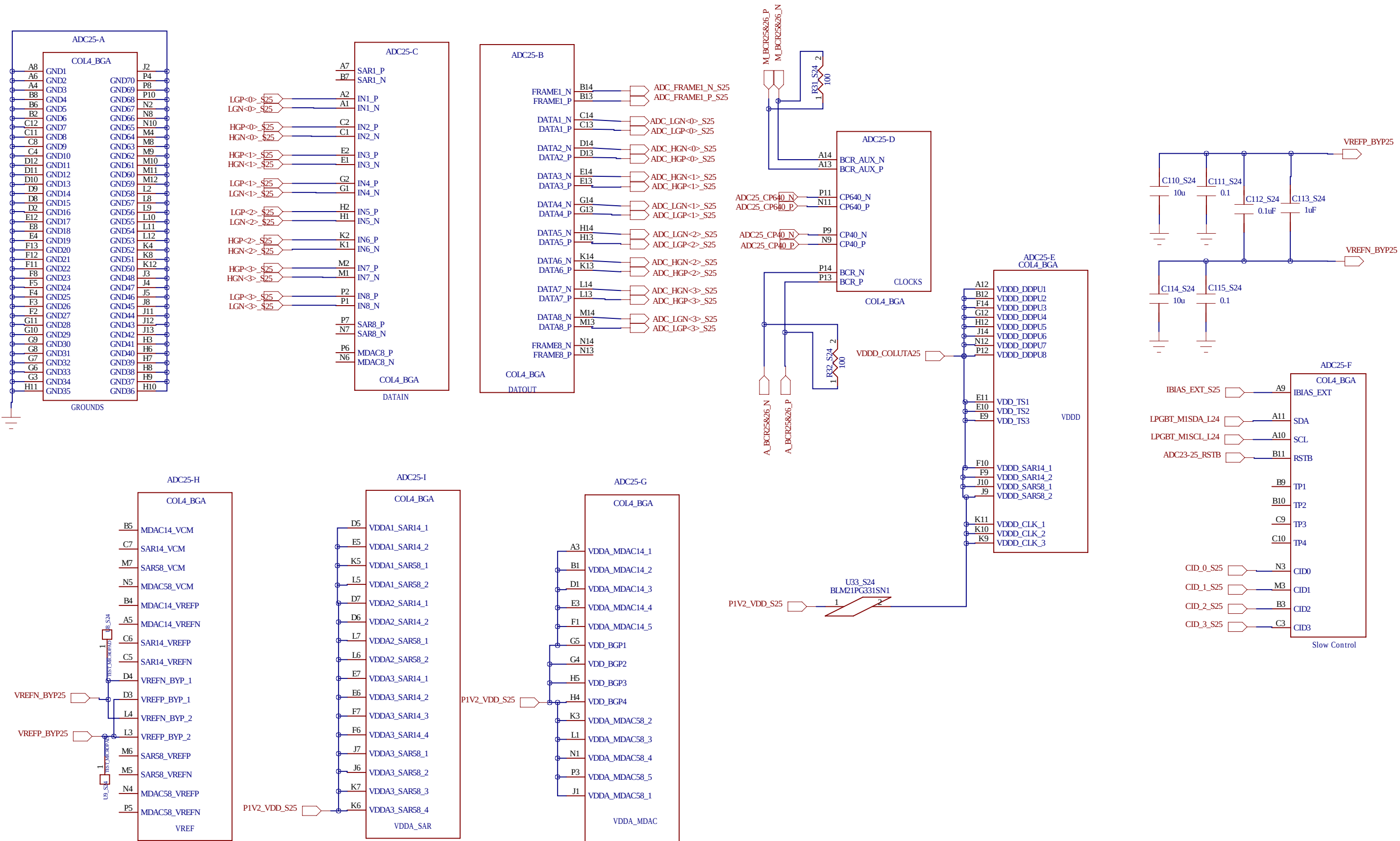
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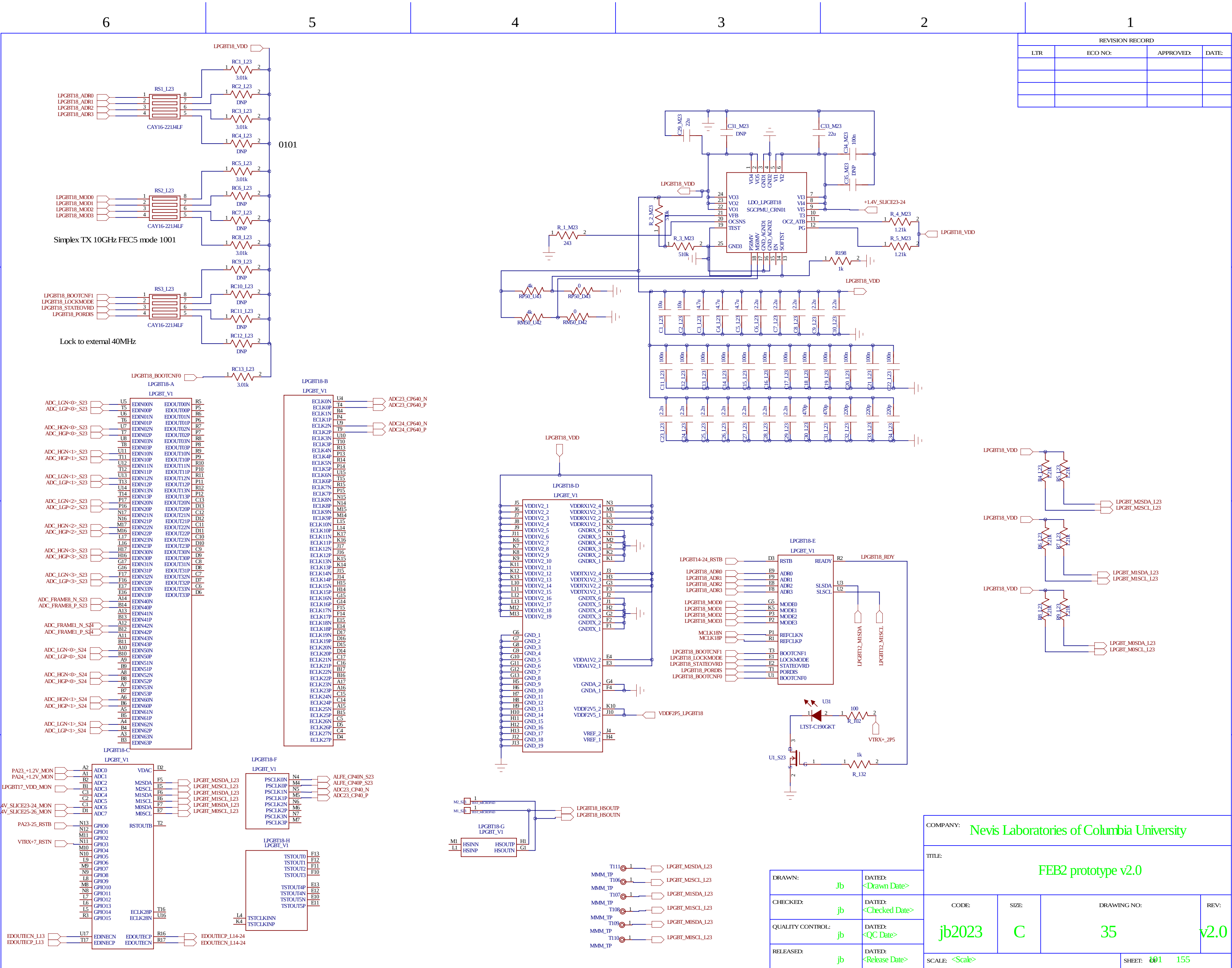
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COMPANY: Nevis Laboratories of Columbia University			
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REVISION RECORD			
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TITLE: FEB2 prototype v2.0			
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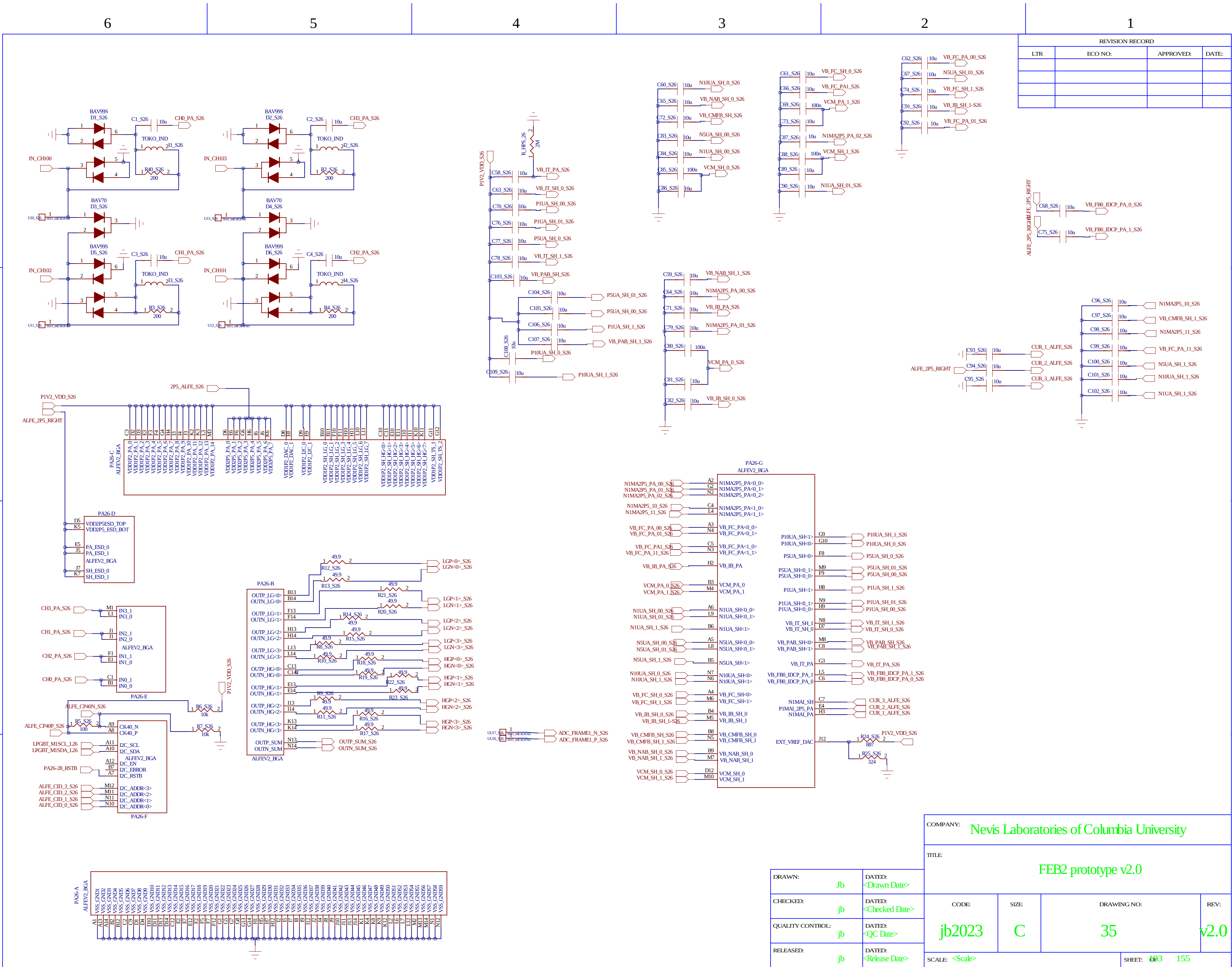
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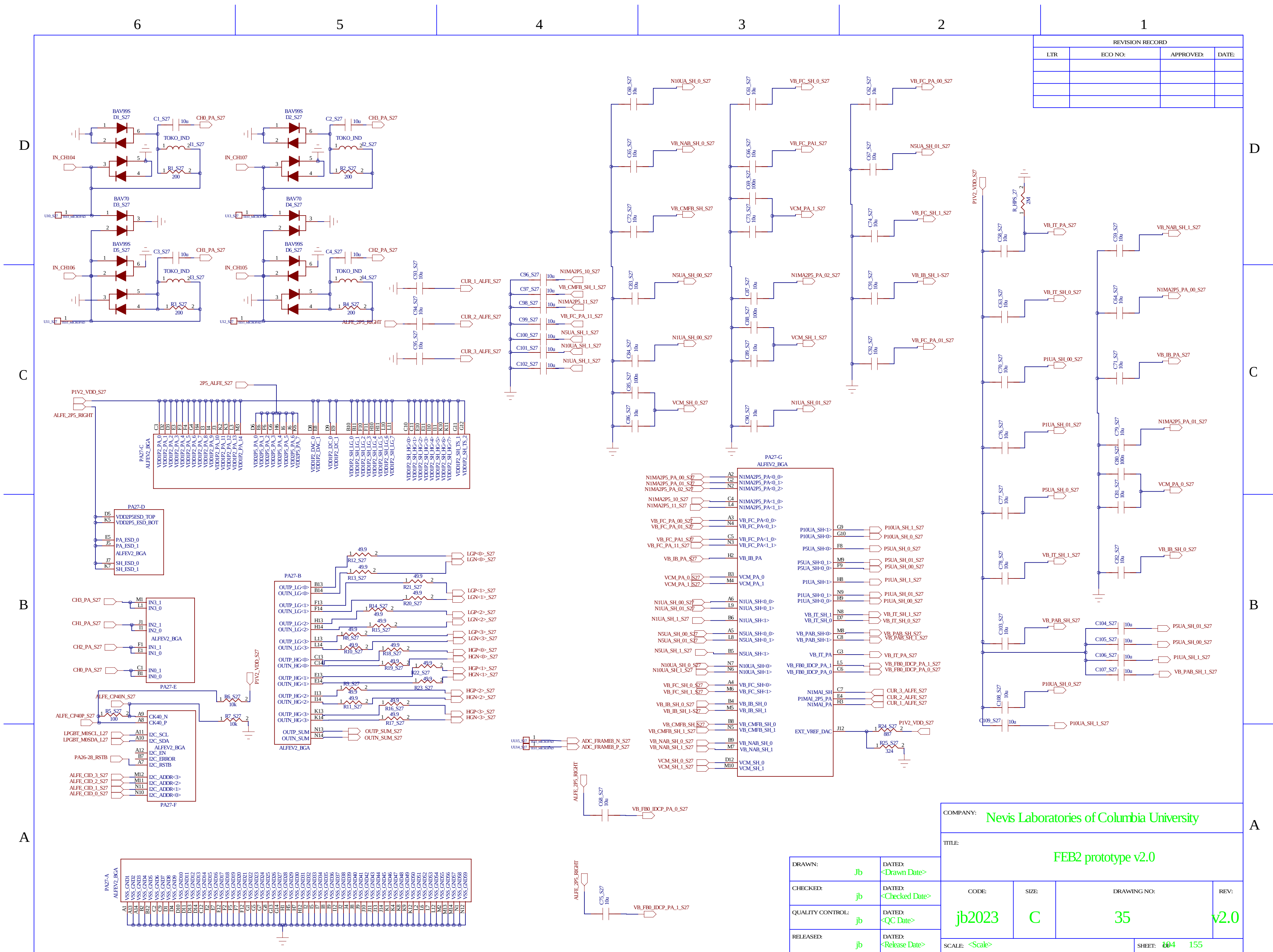
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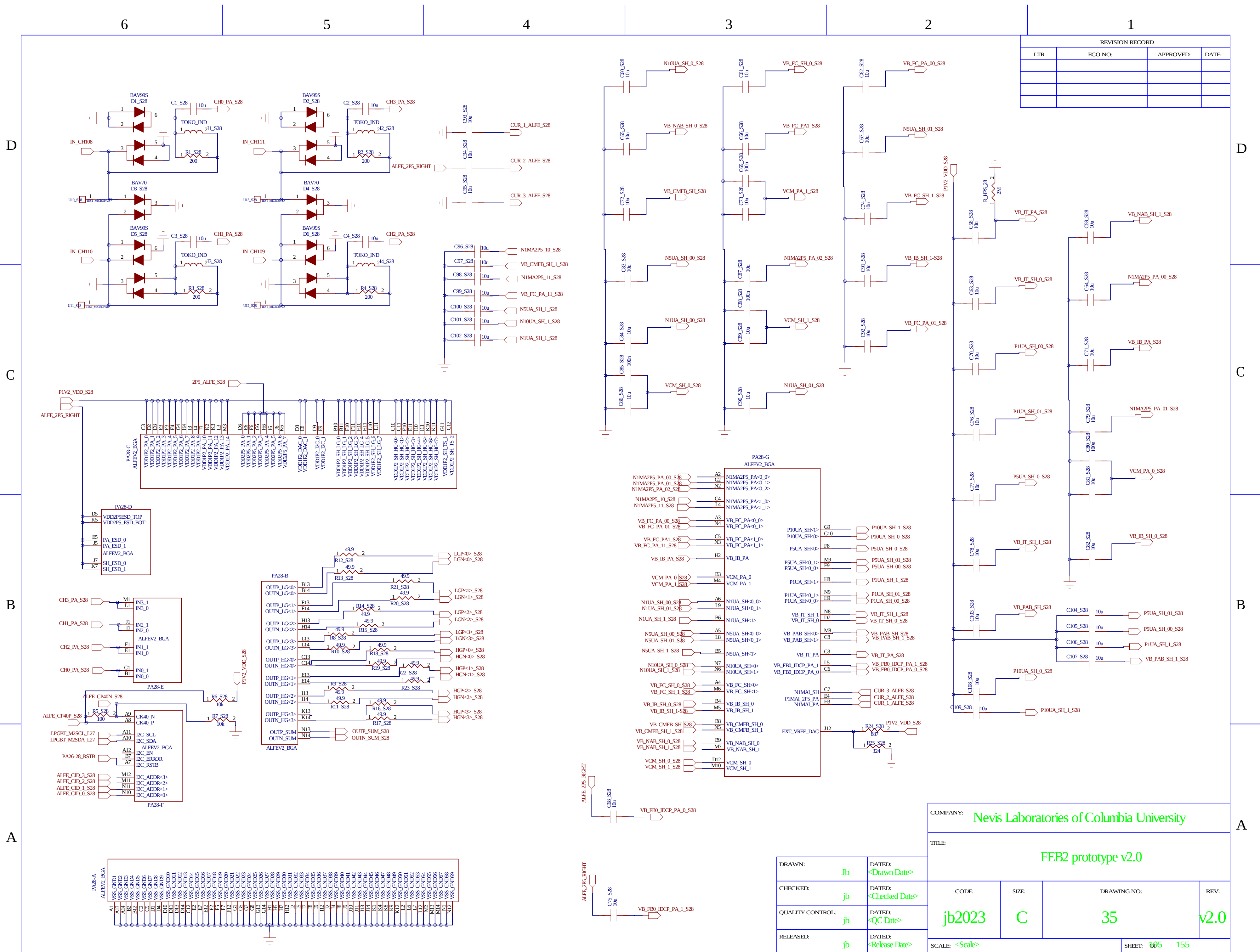
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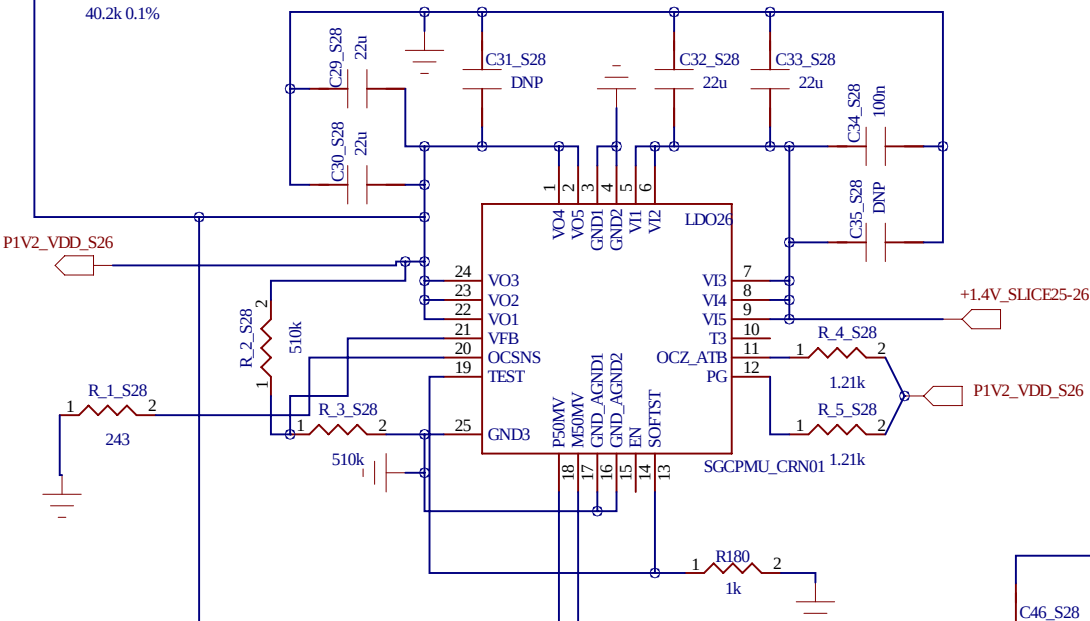
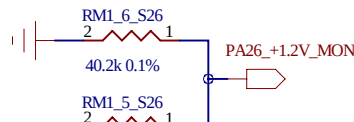
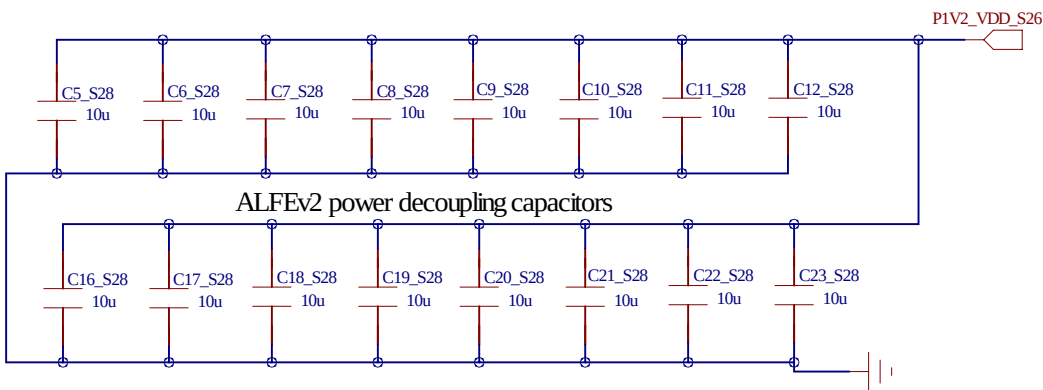
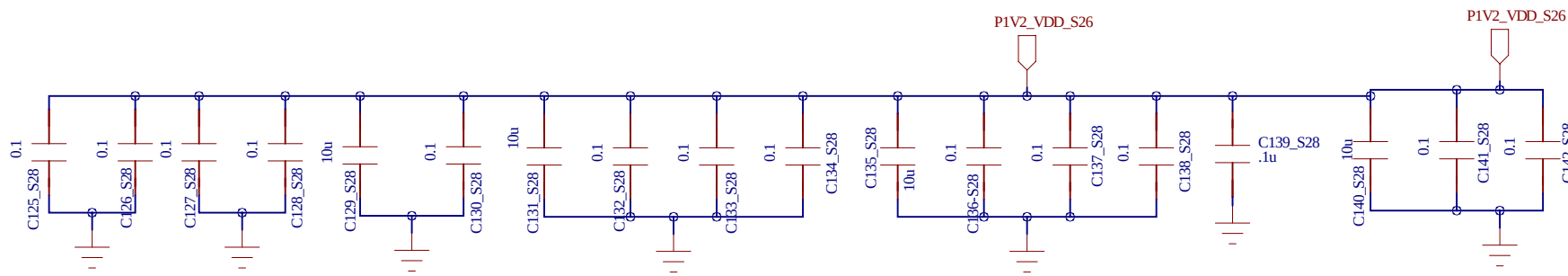
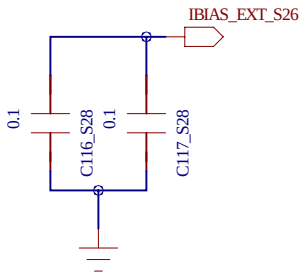
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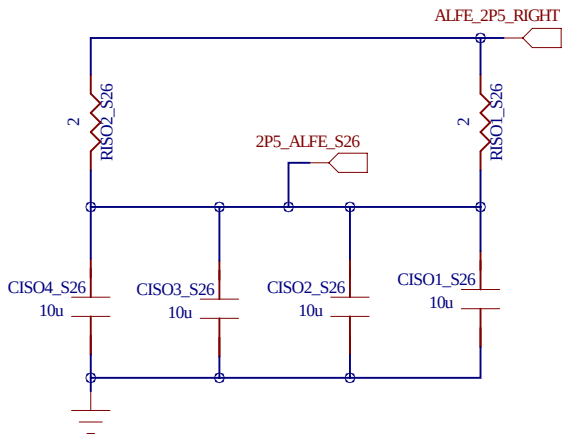
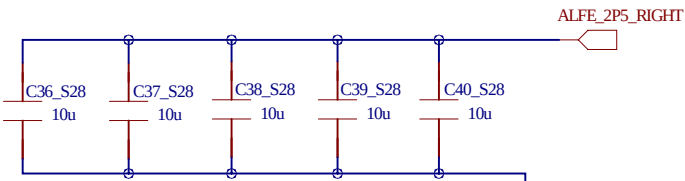
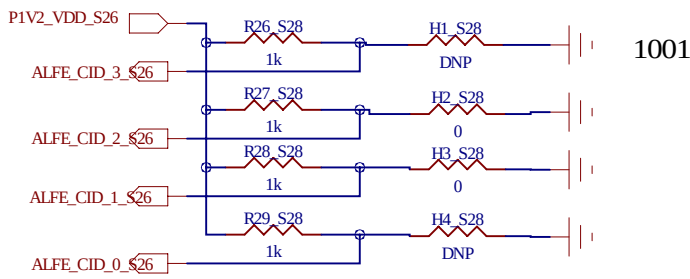
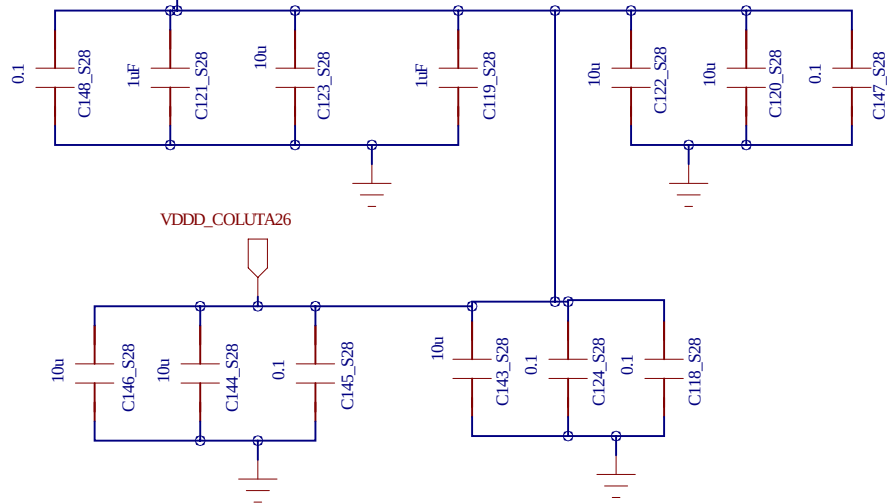
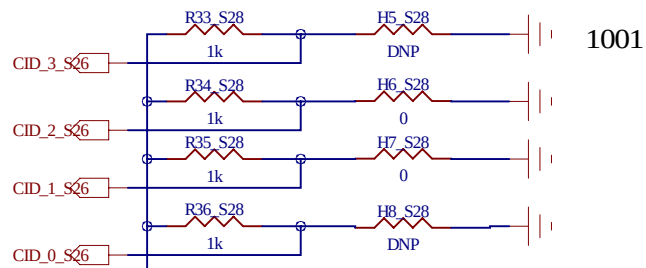
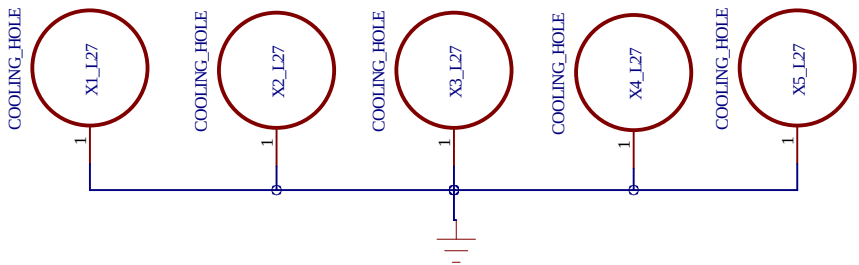
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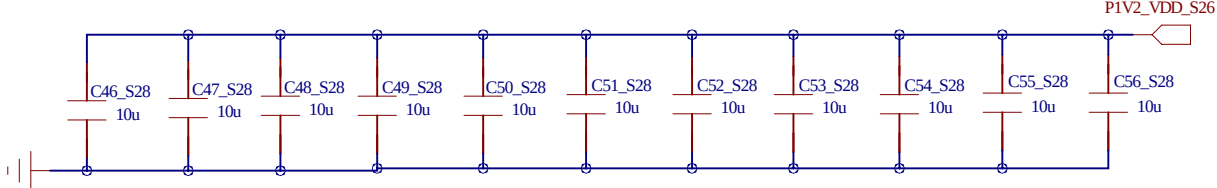
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ALFEv2 power decoupling capacitors



ALFEv2 power decoupling capacitors



COMPANY: Nevis Laboratories of Columbia University			
TITLE: FEB2 prototype v2.0			
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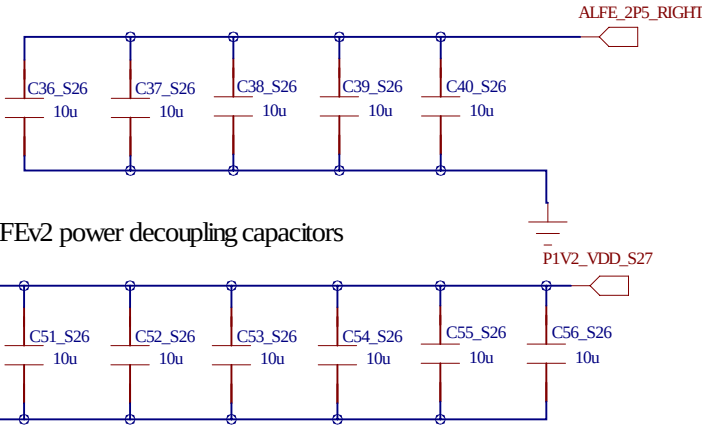
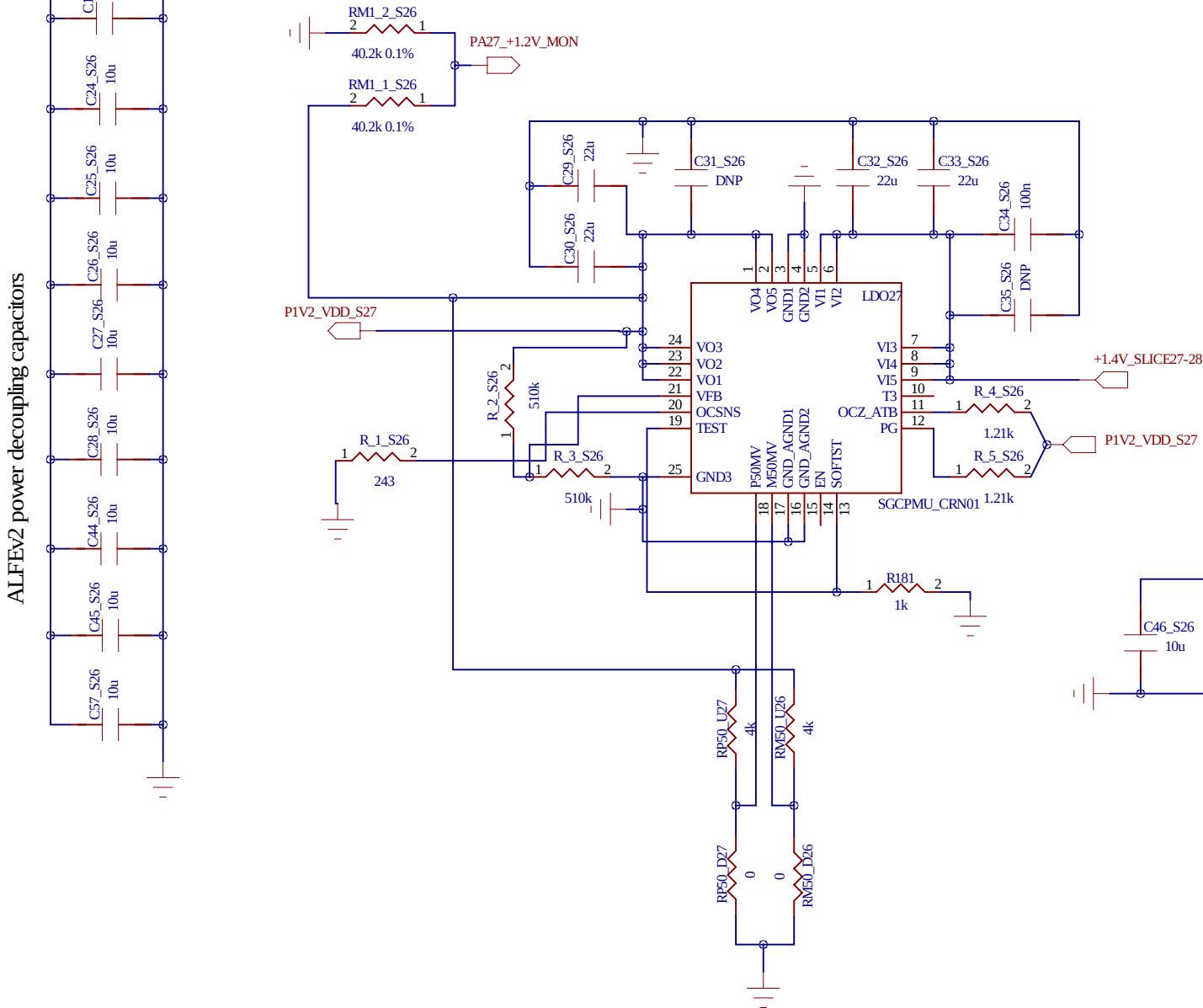
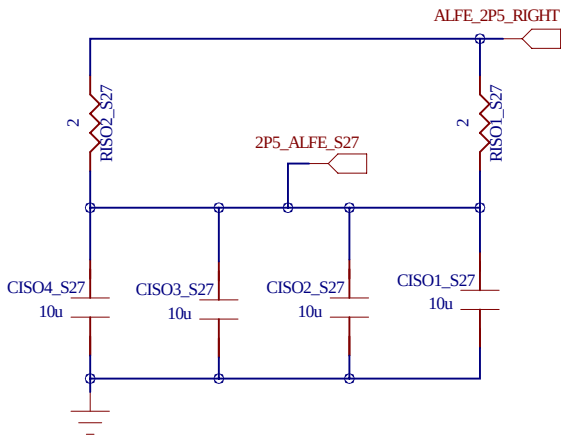
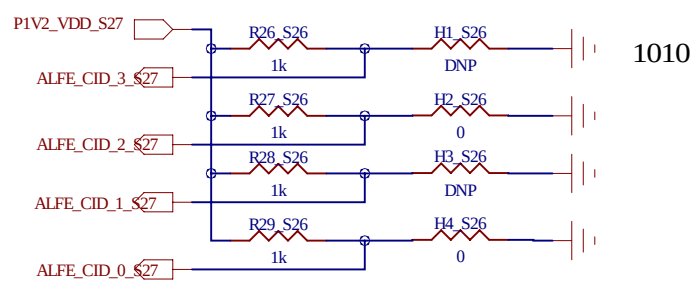
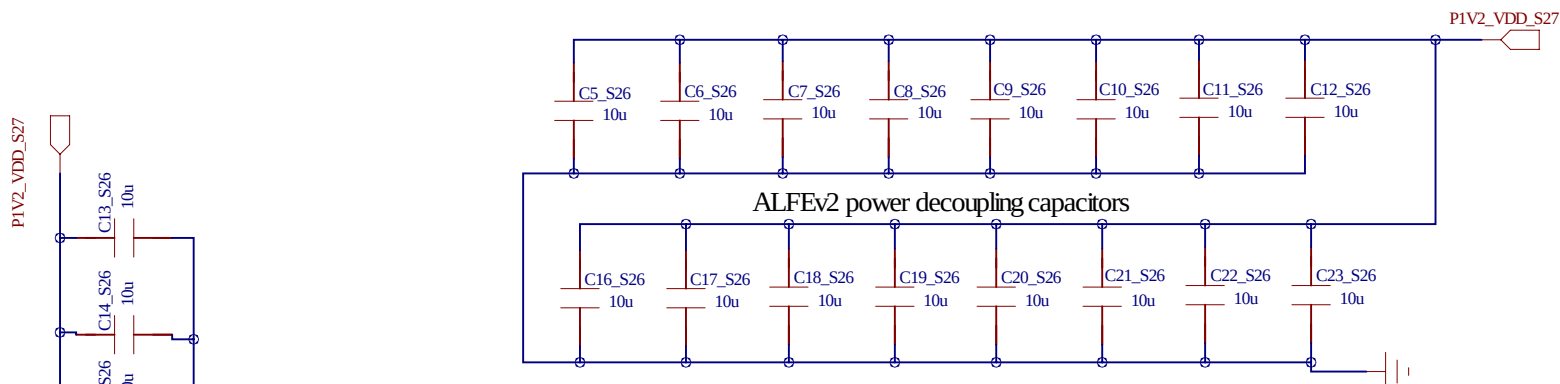
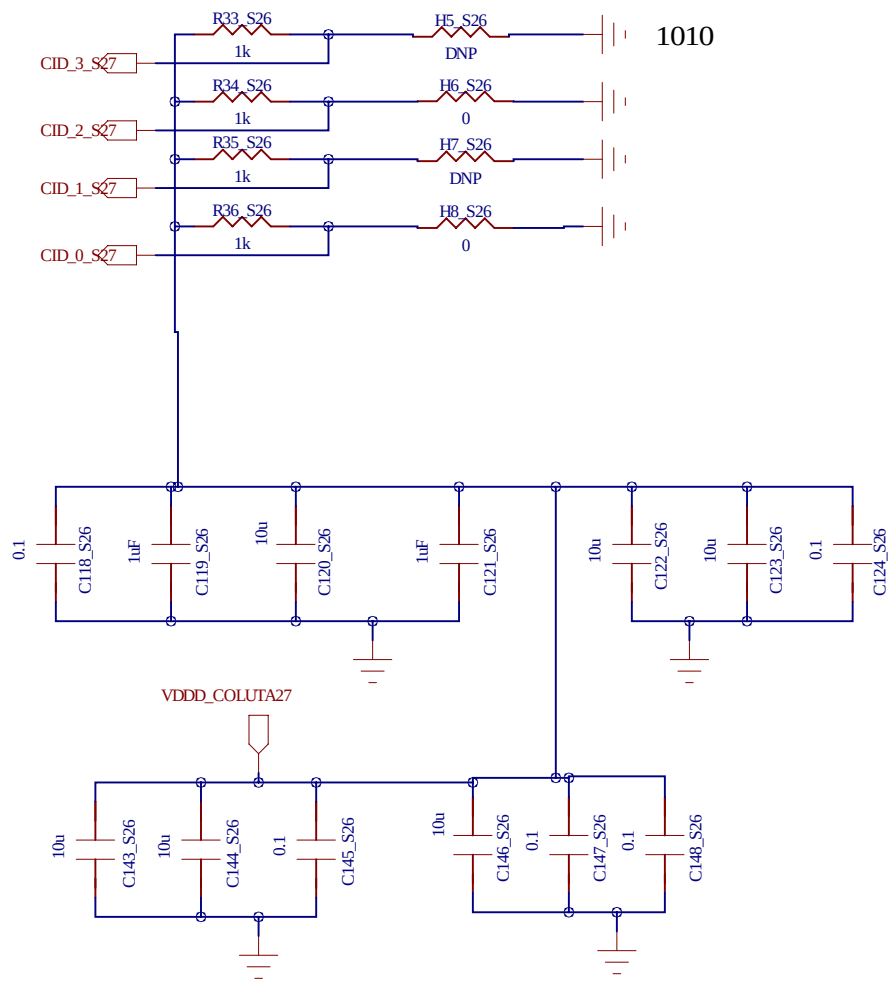
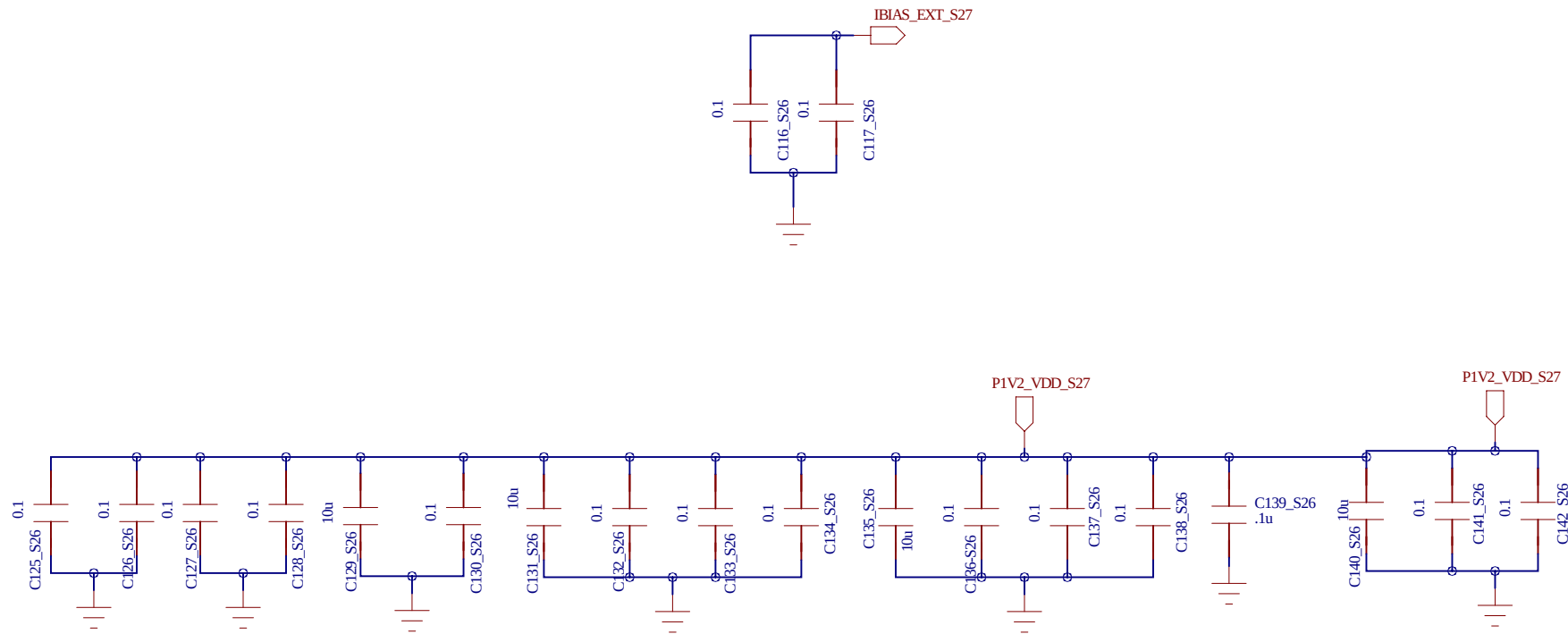
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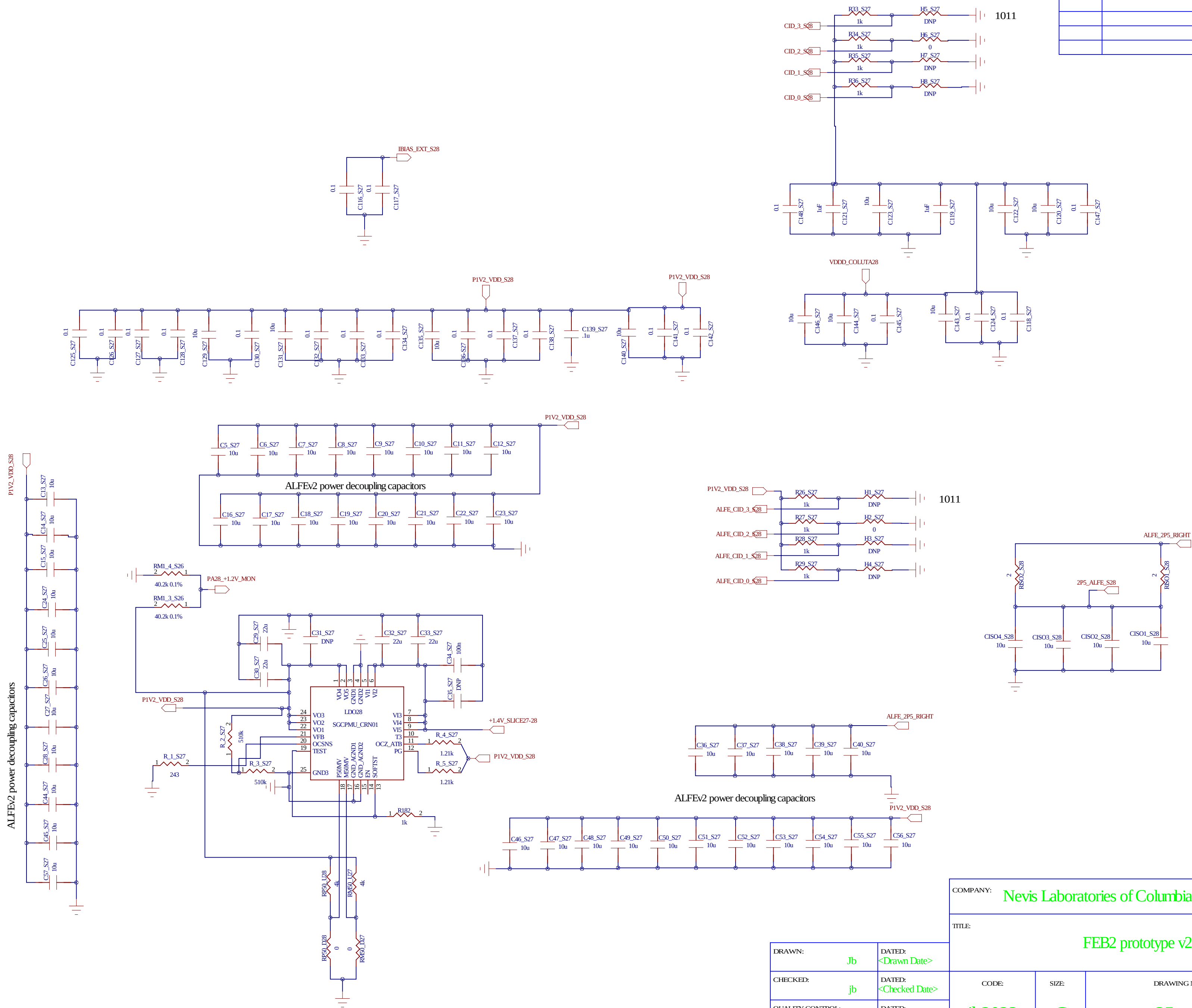
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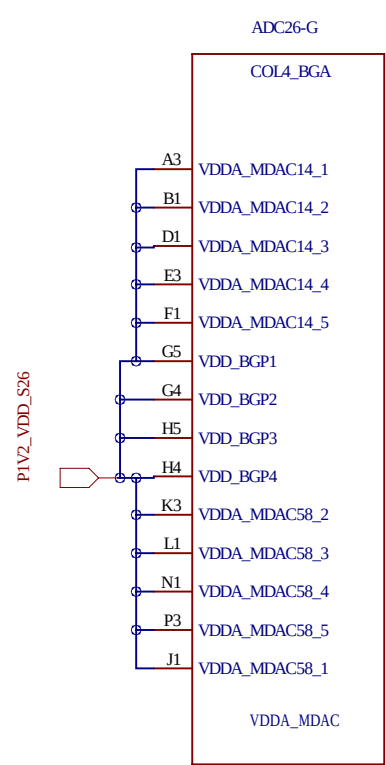
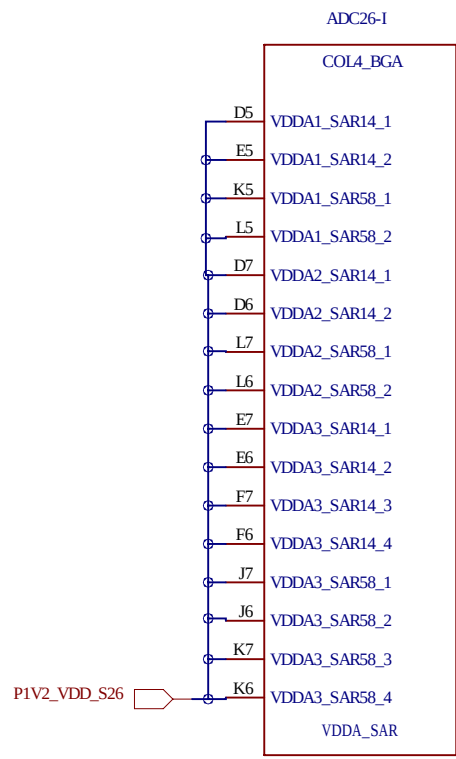
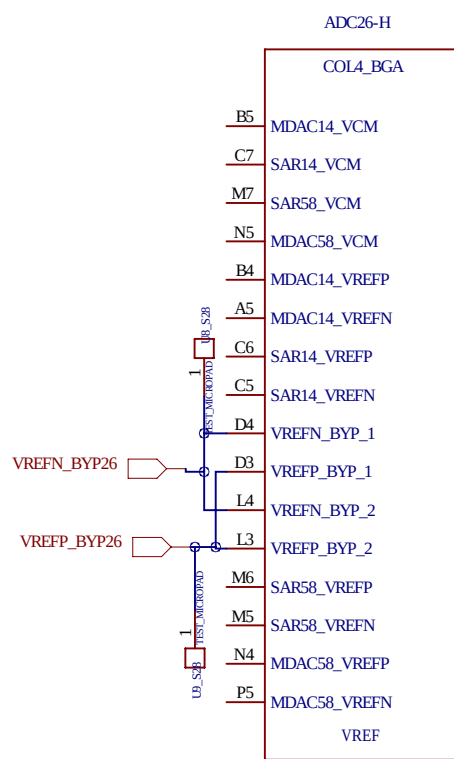
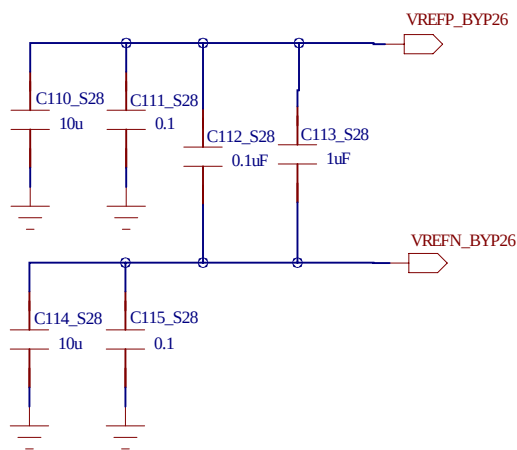
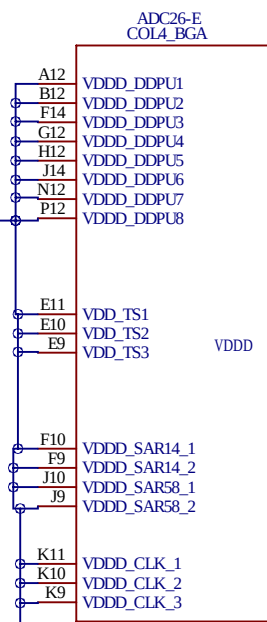
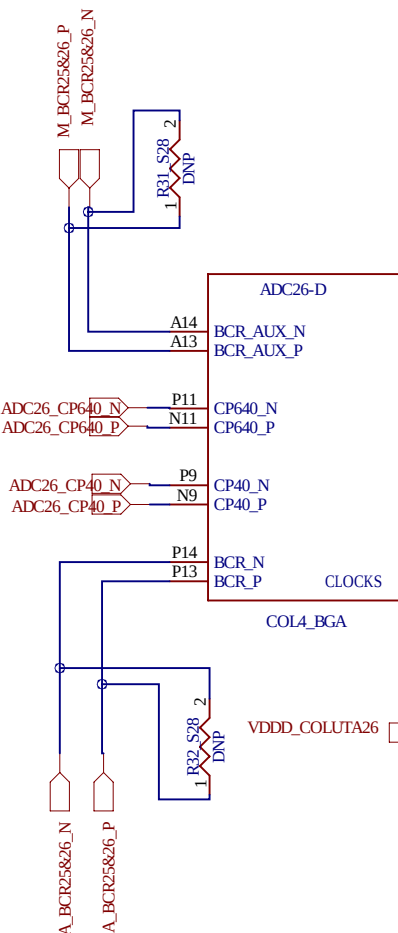
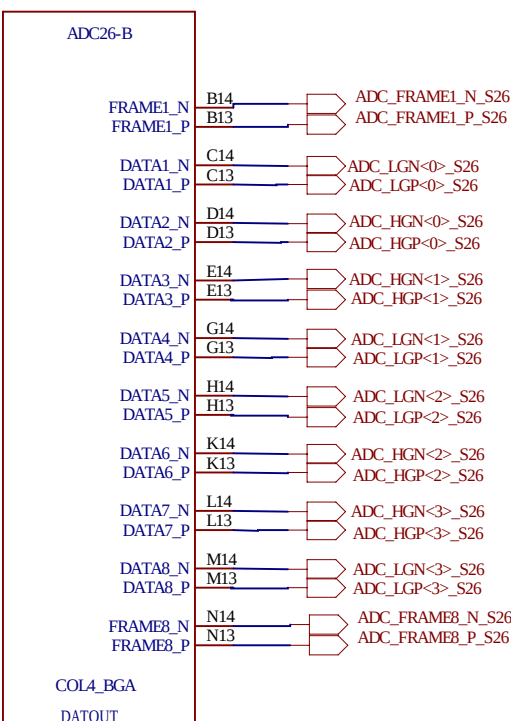
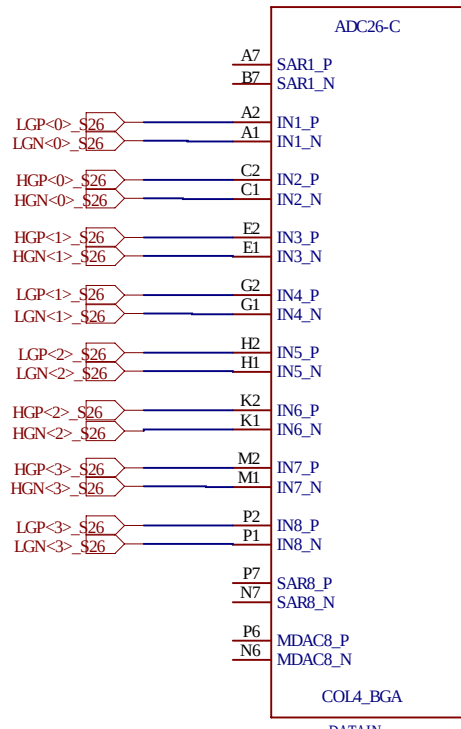
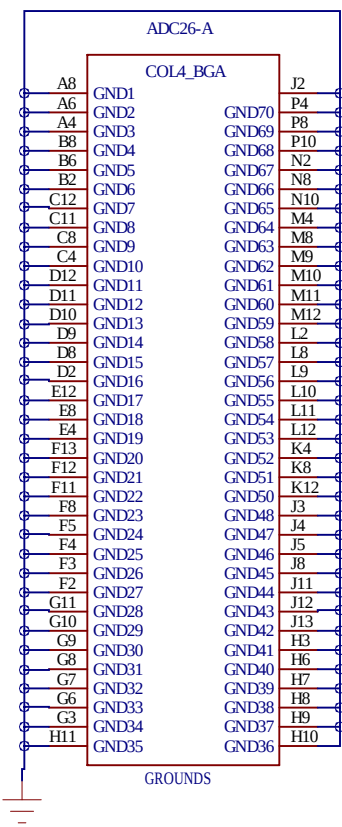
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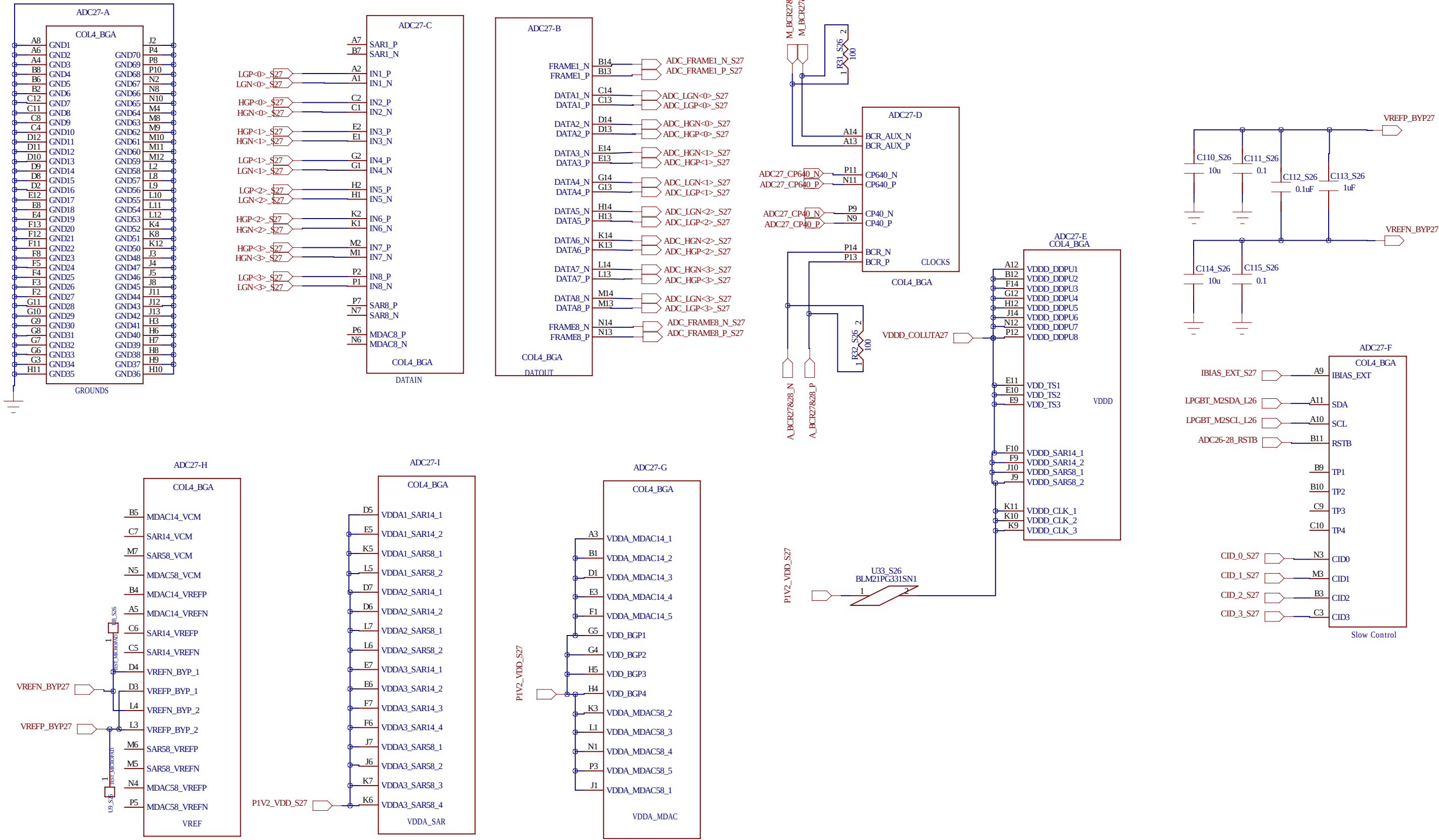
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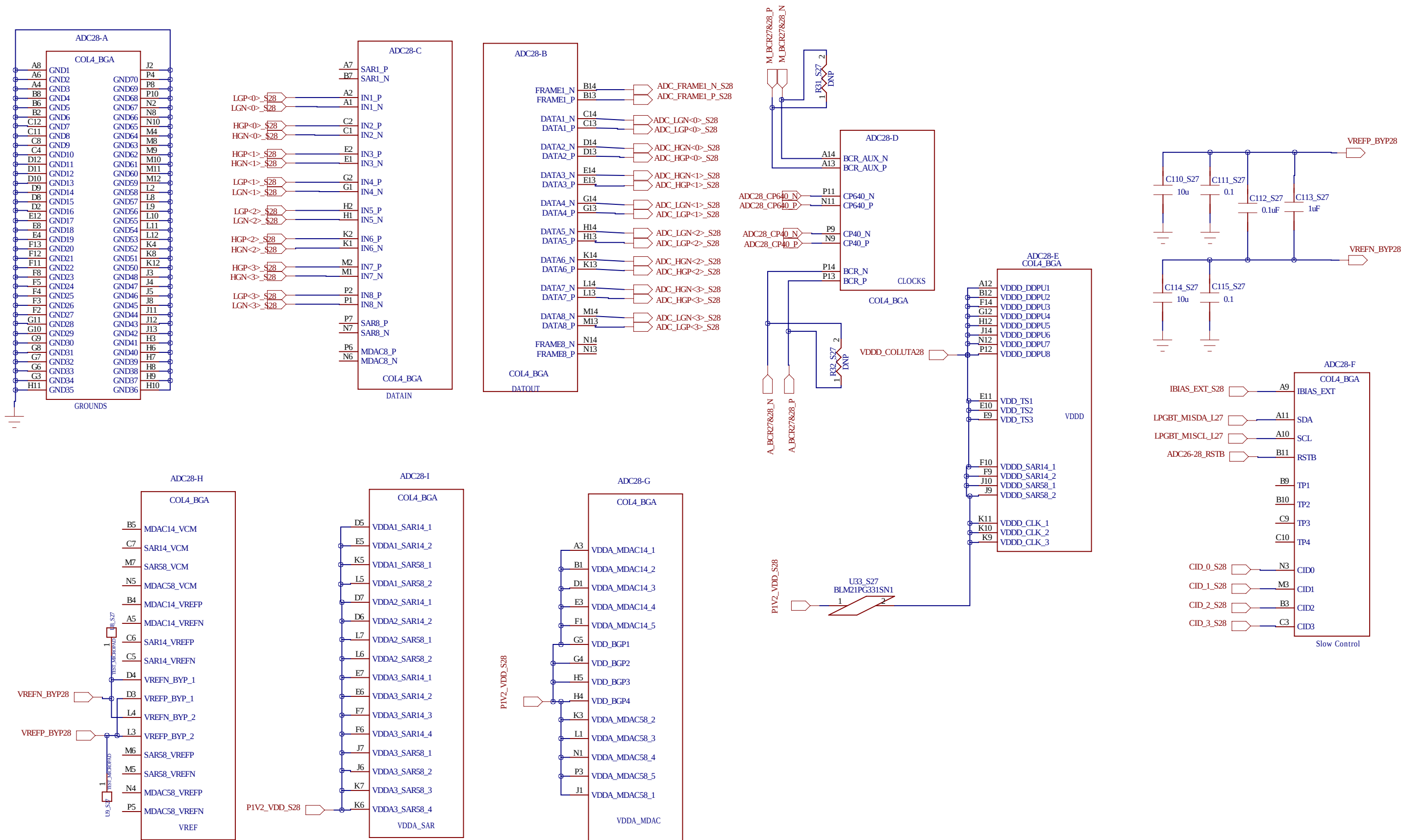
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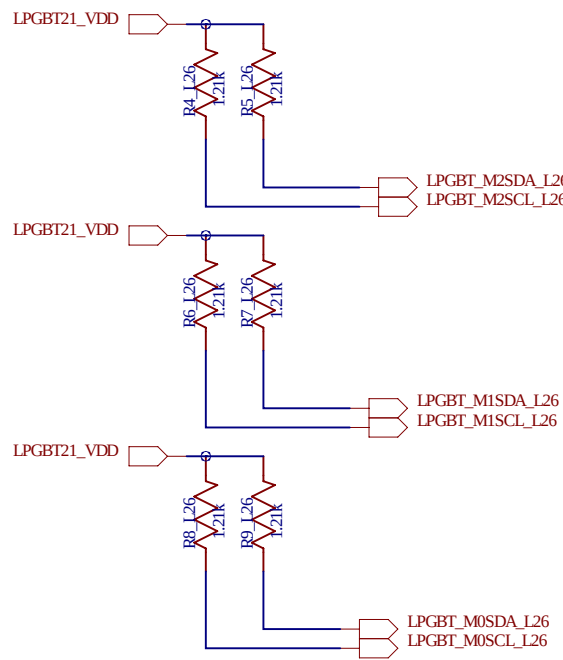
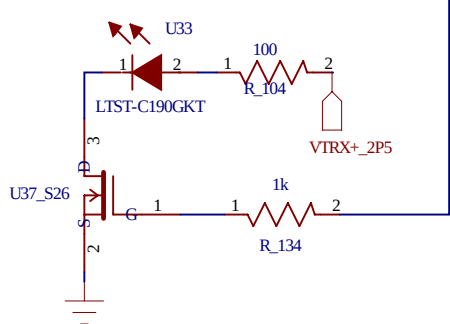
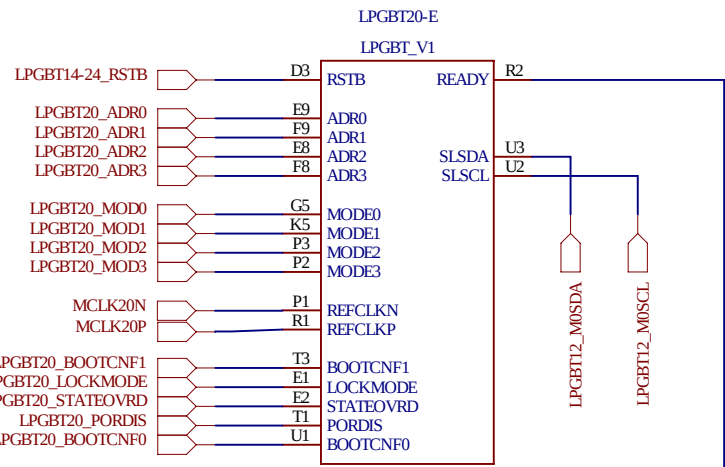
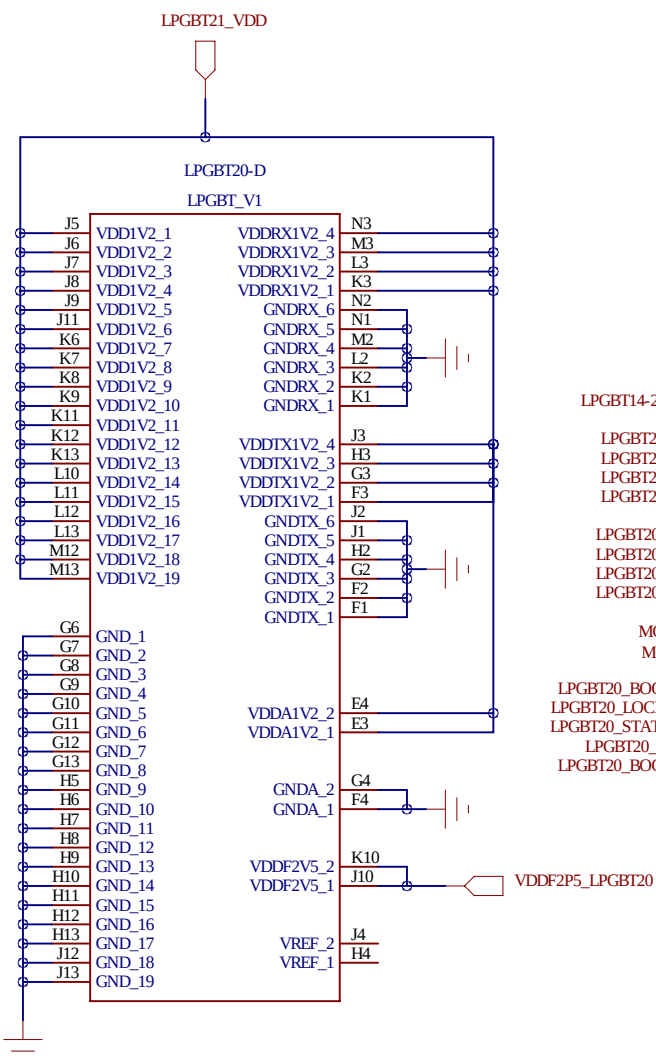
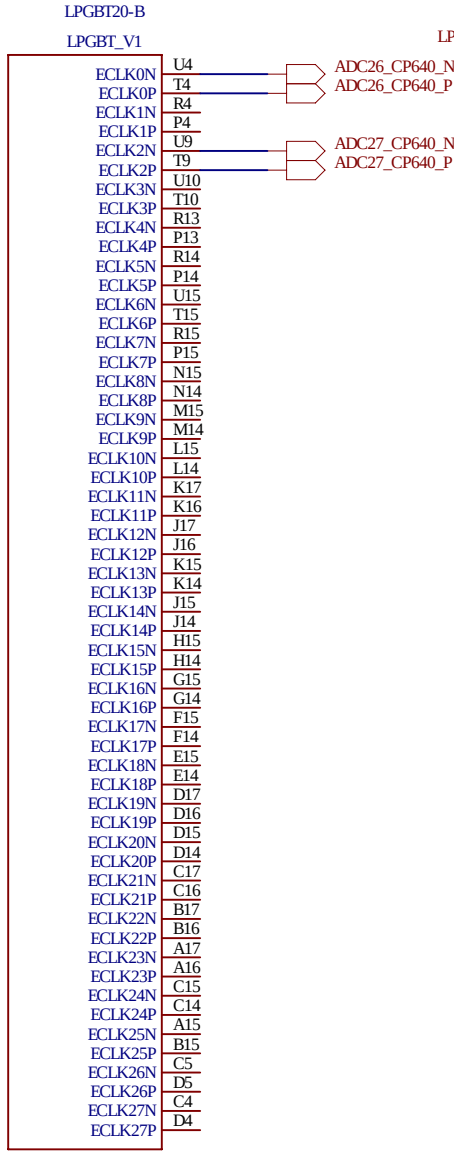
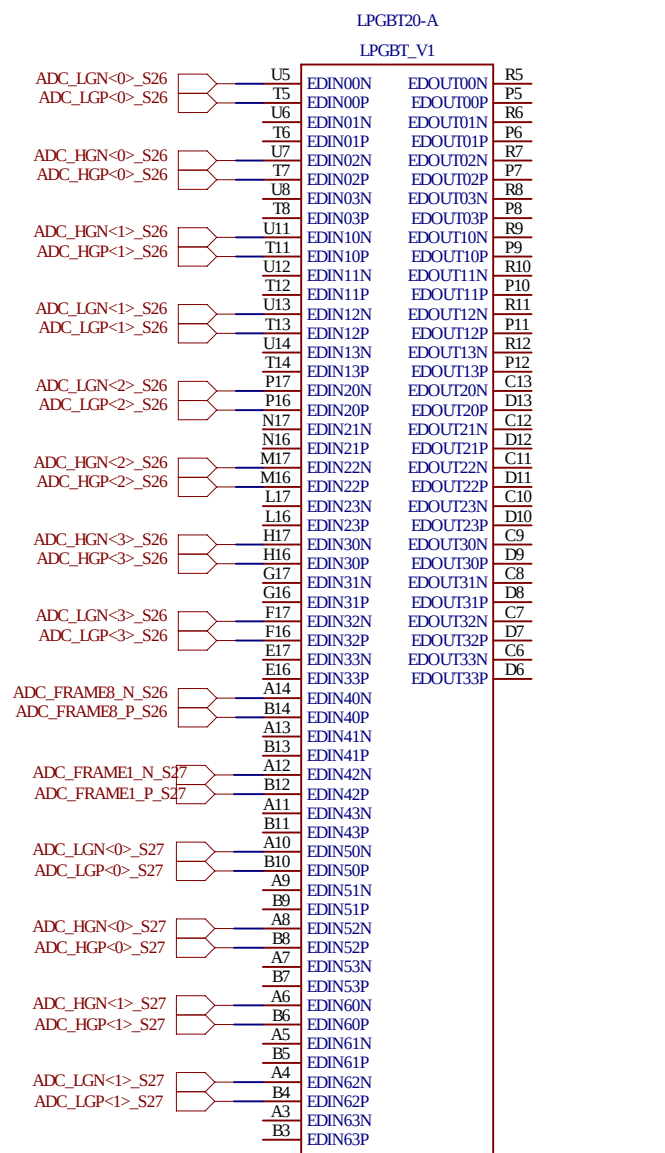
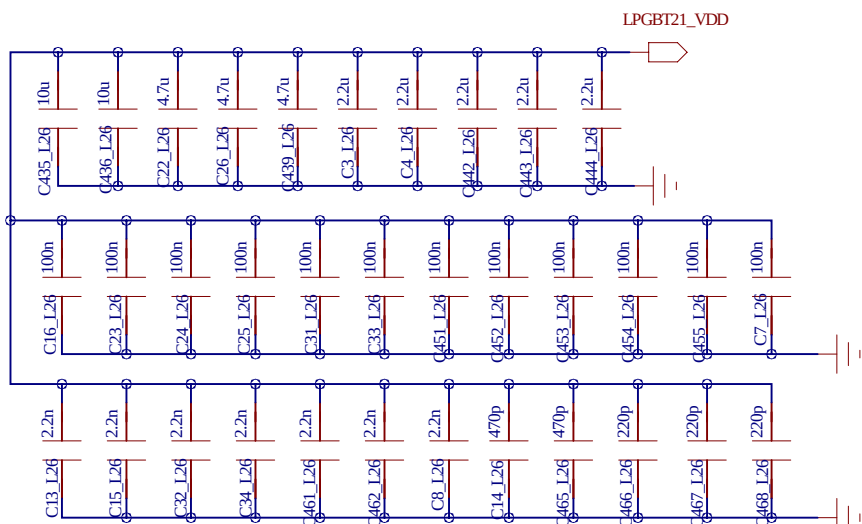
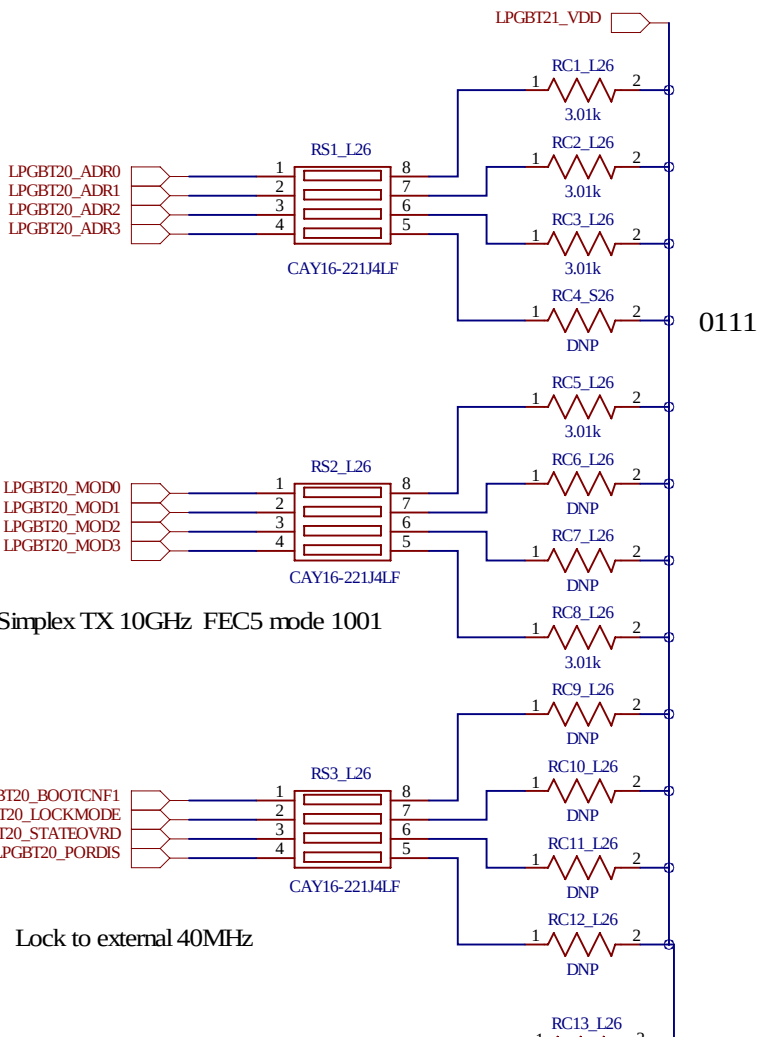
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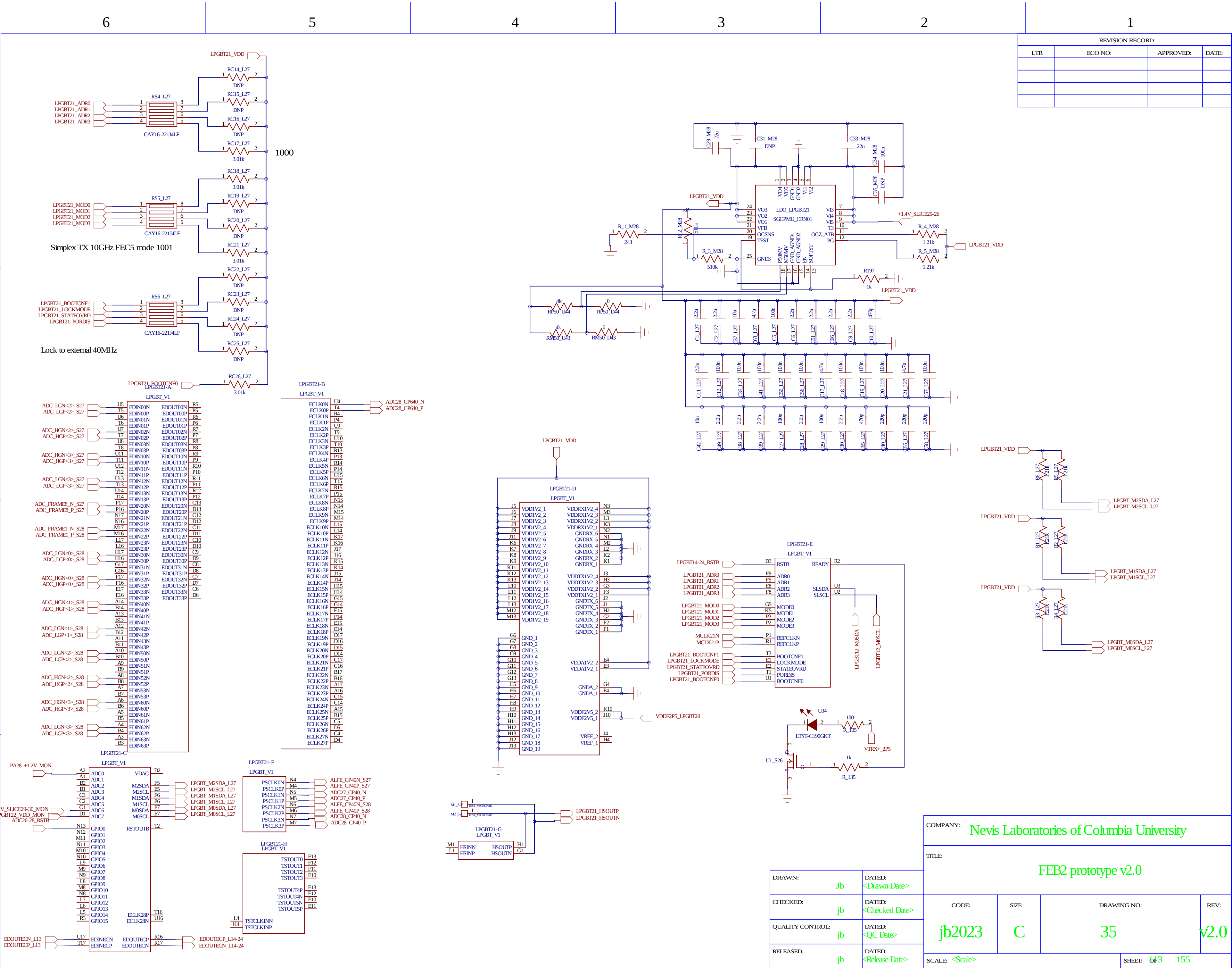
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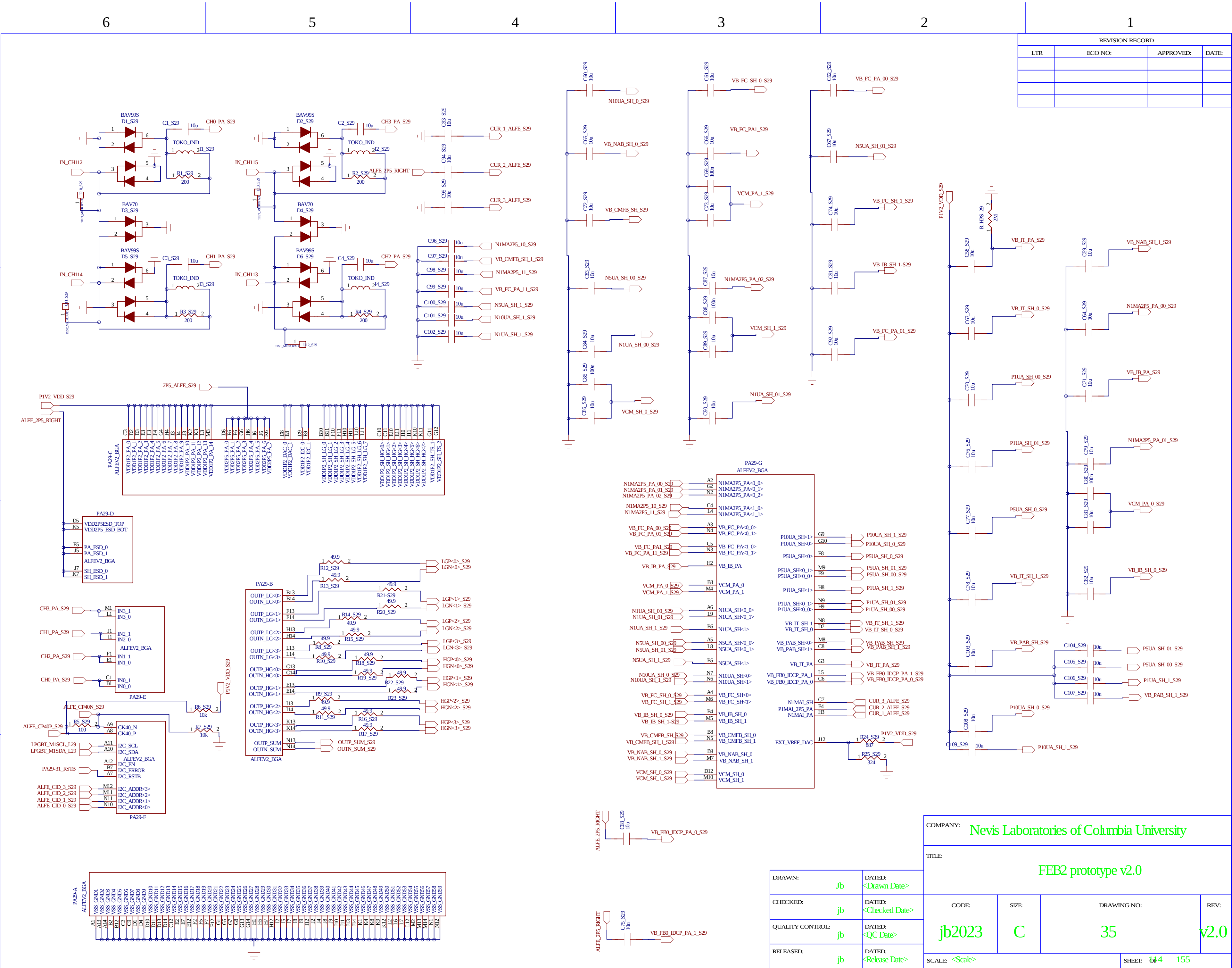
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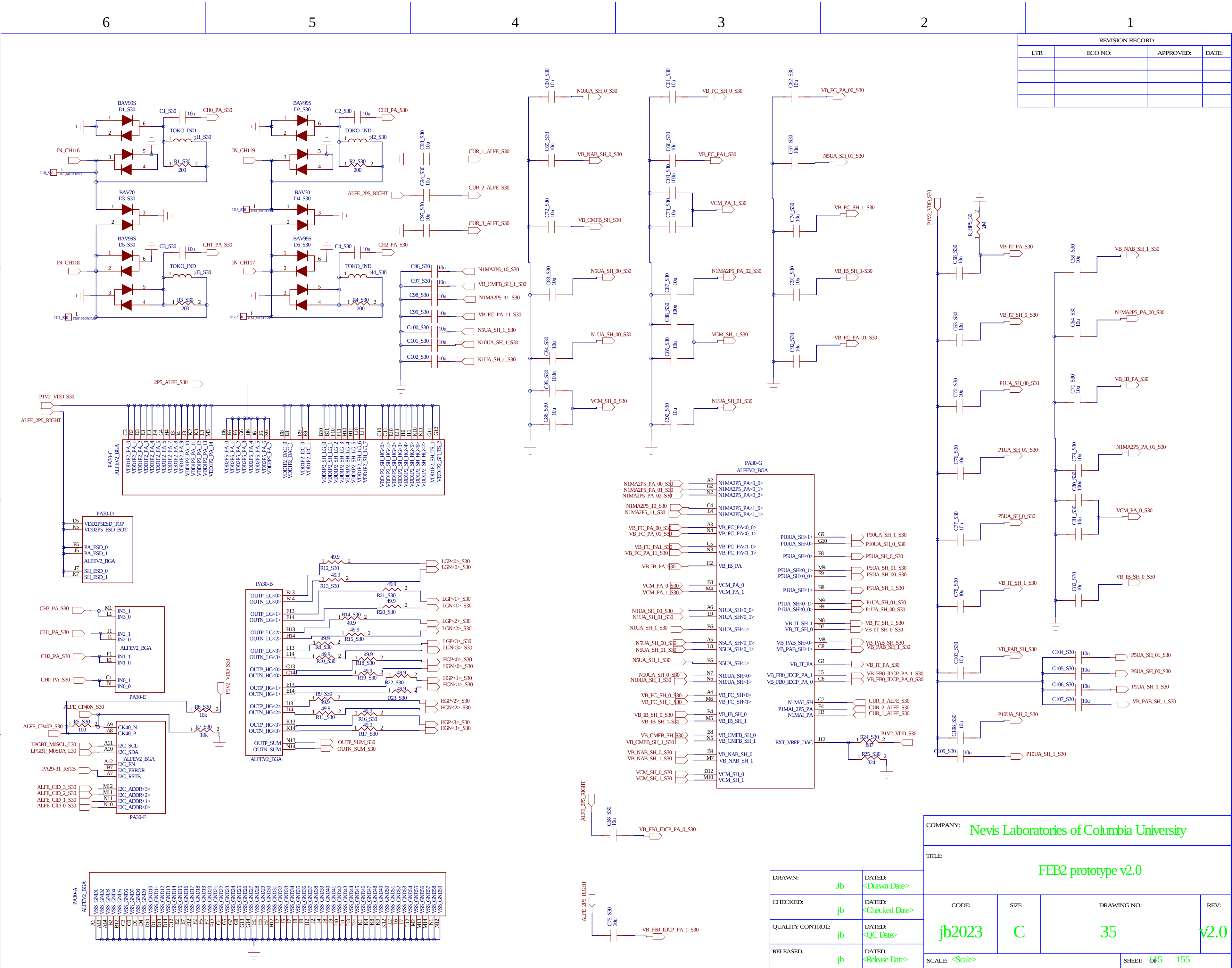
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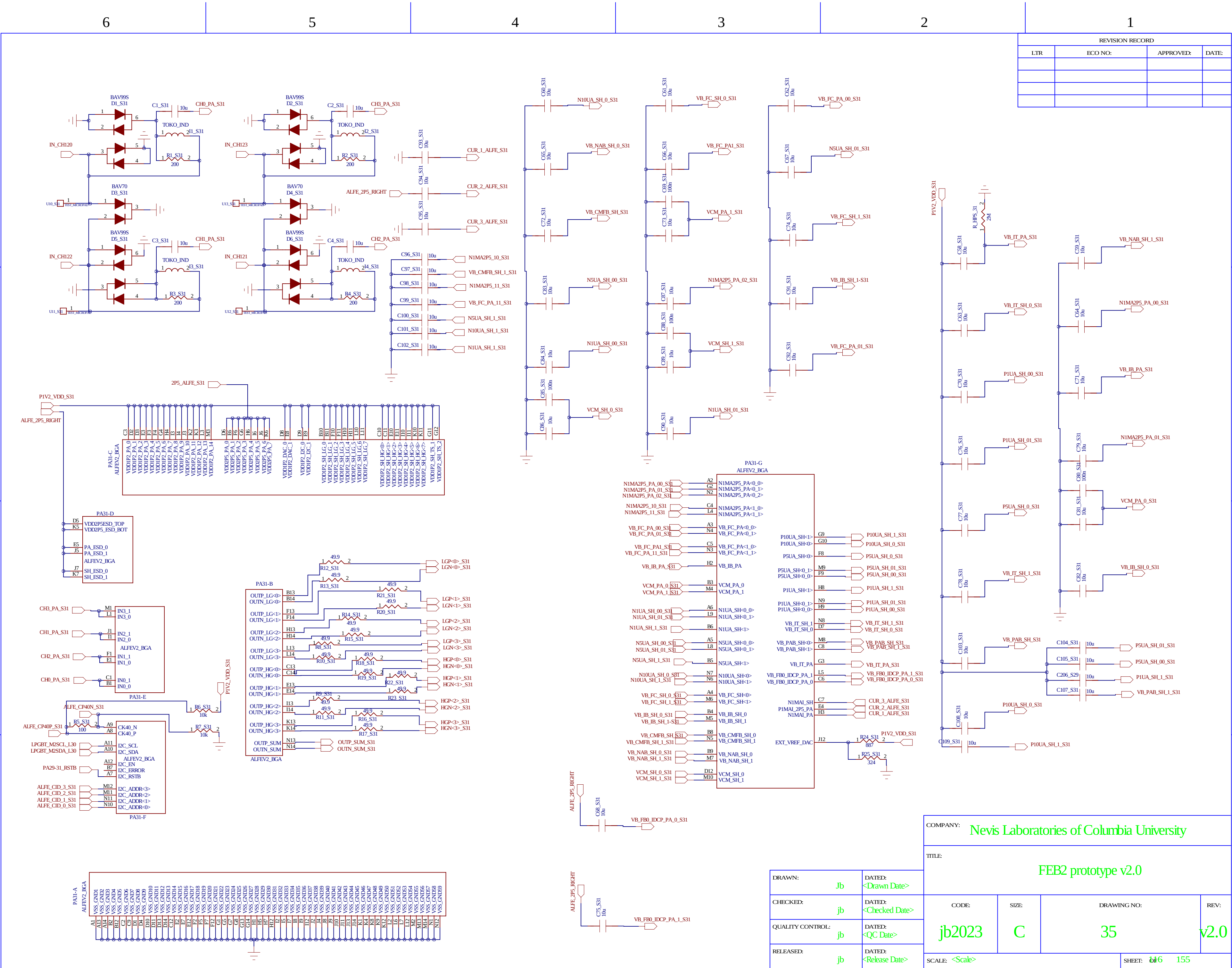
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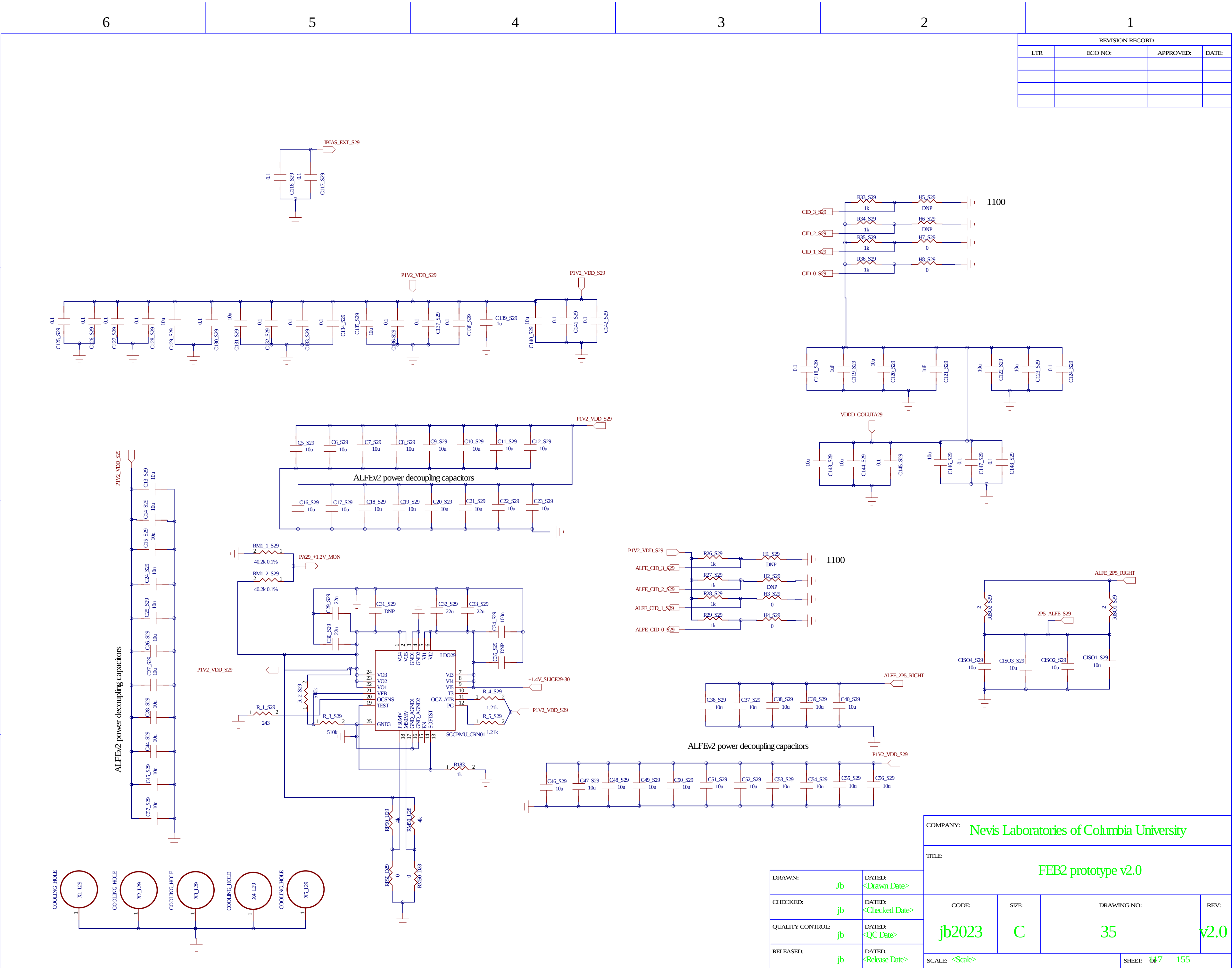
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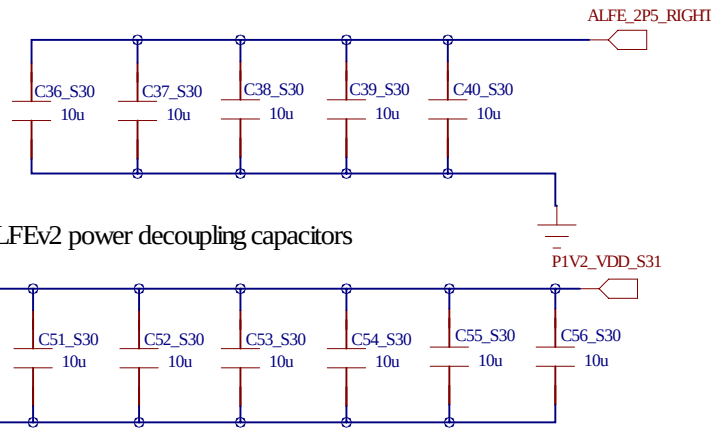
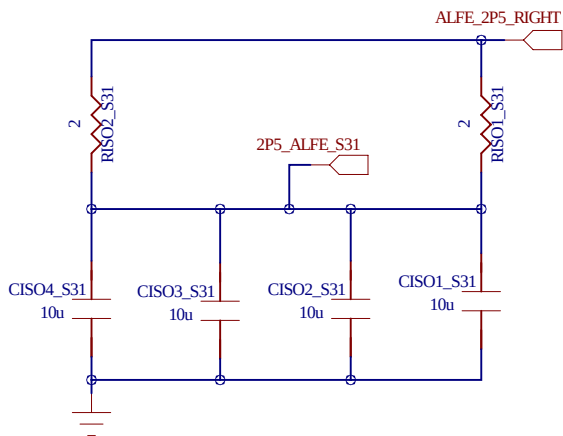
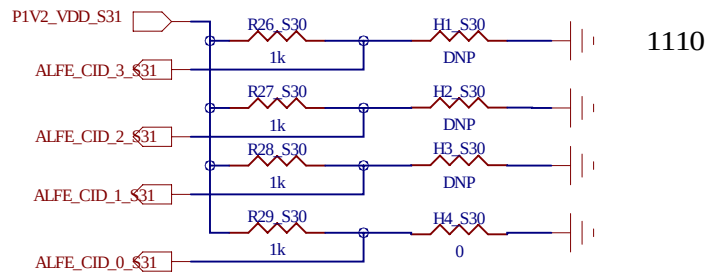
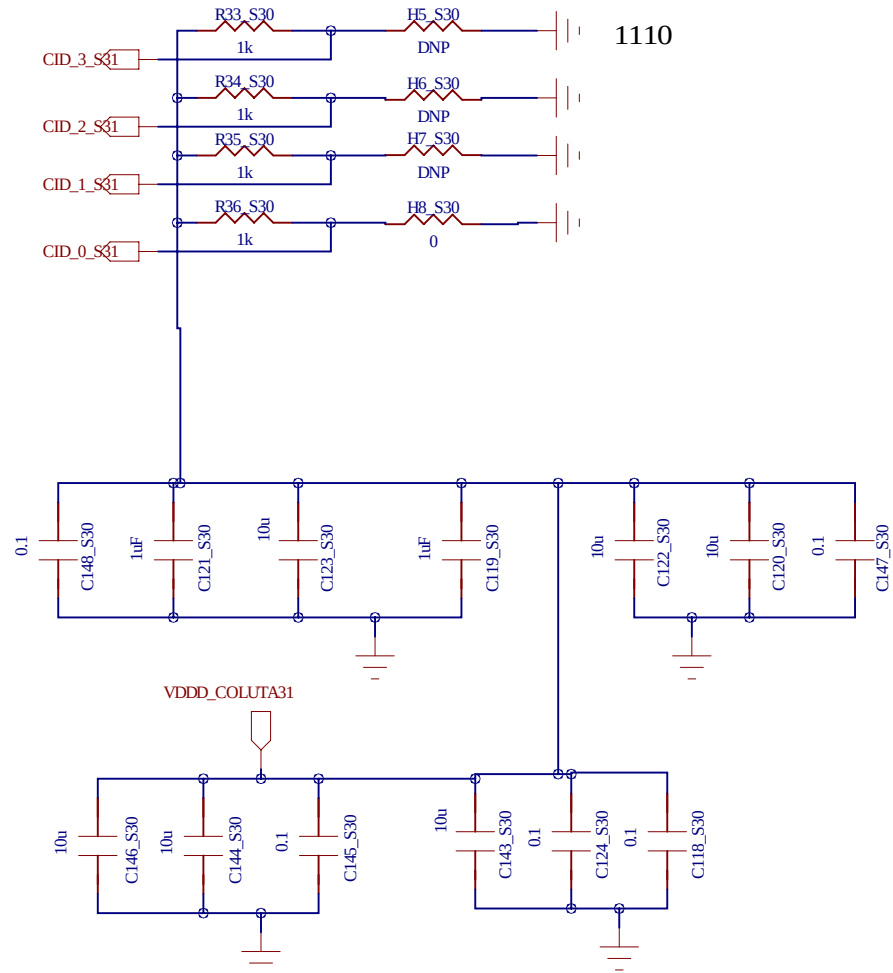
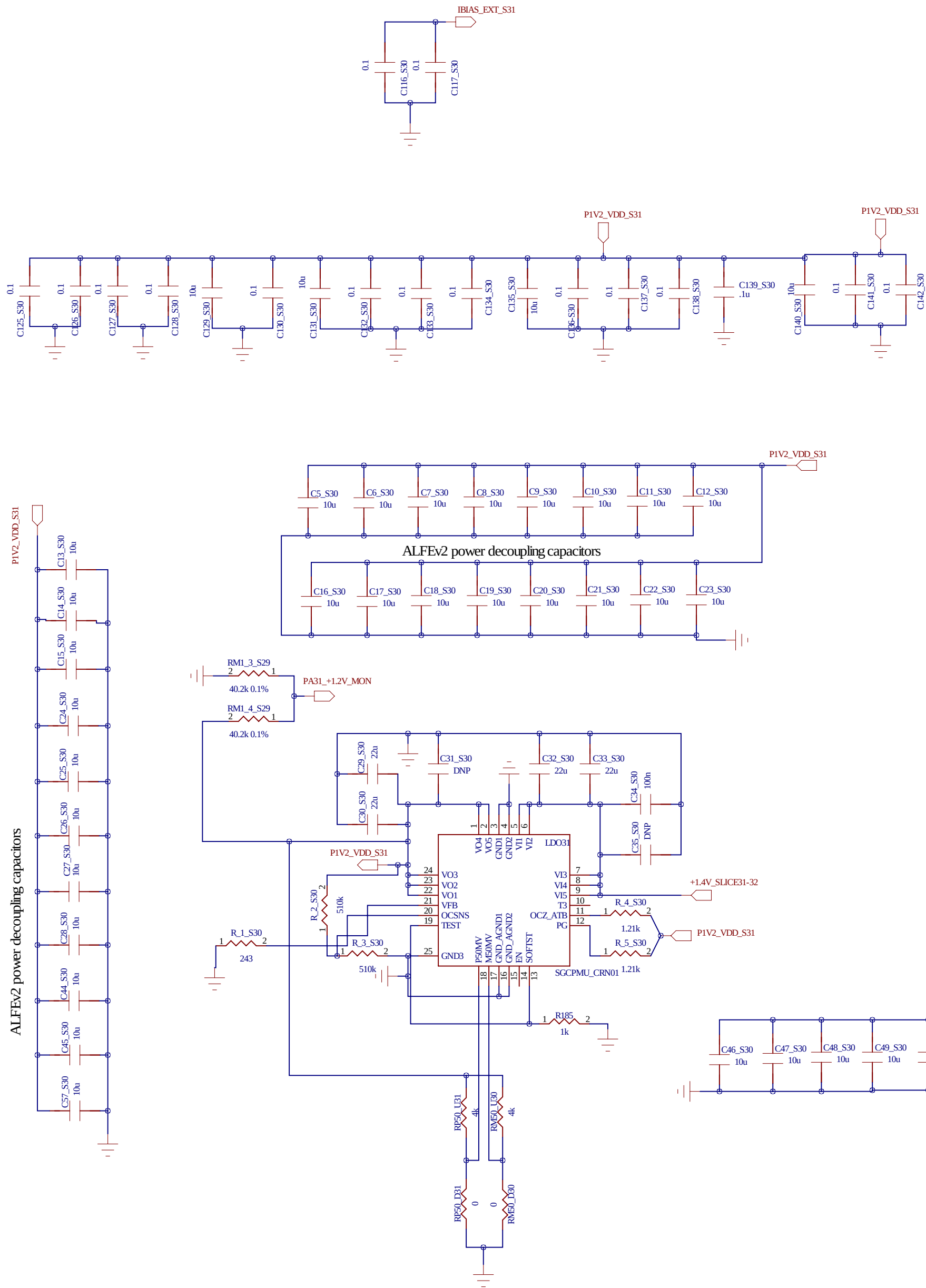
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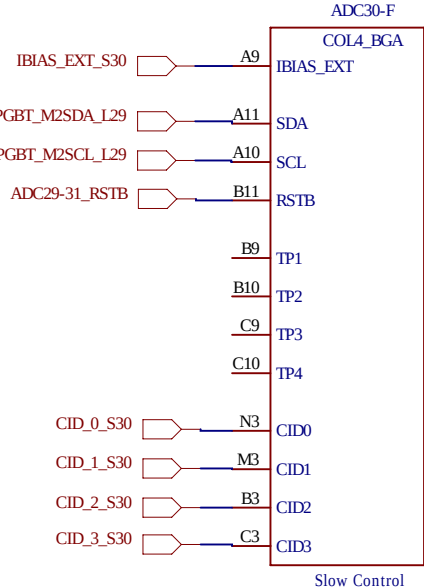
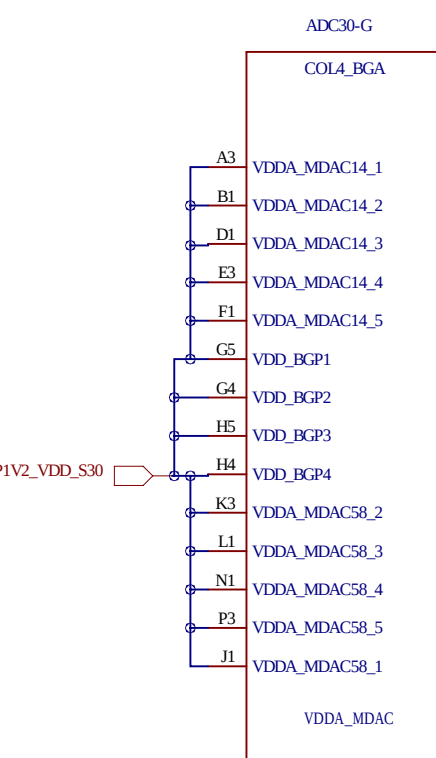
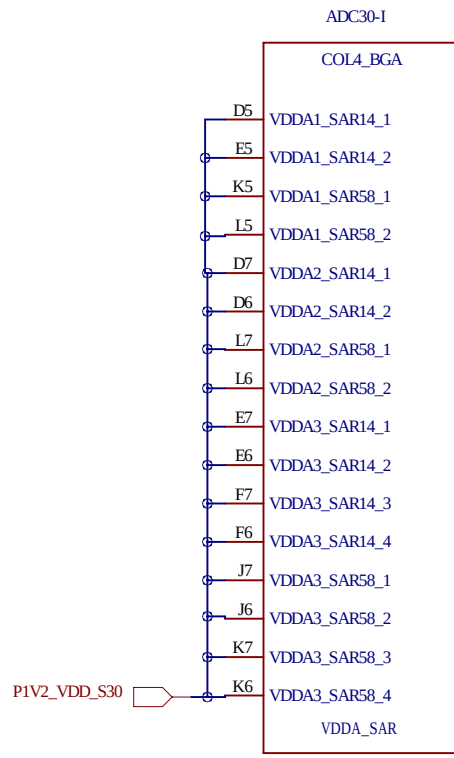
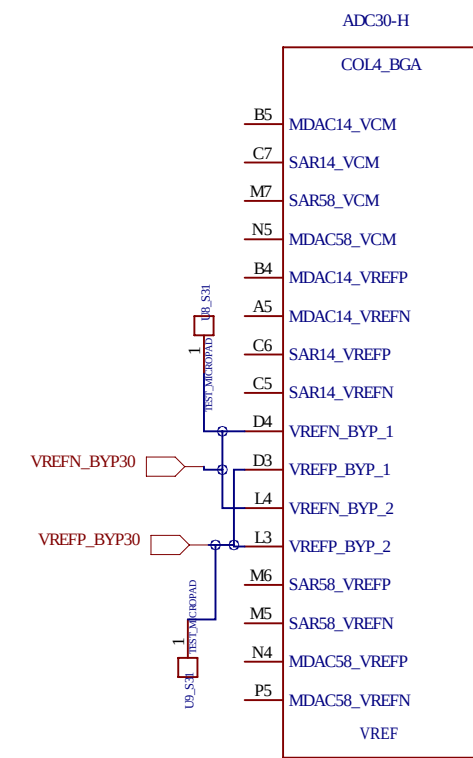
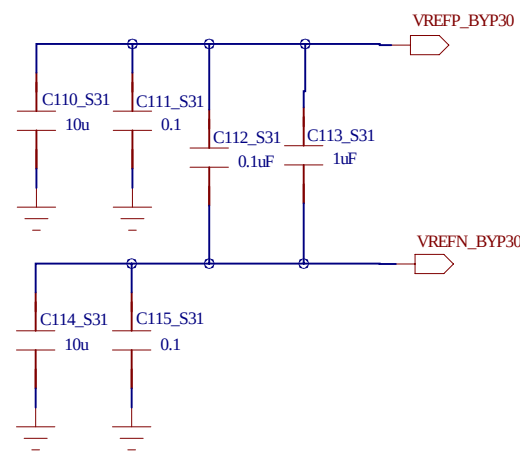
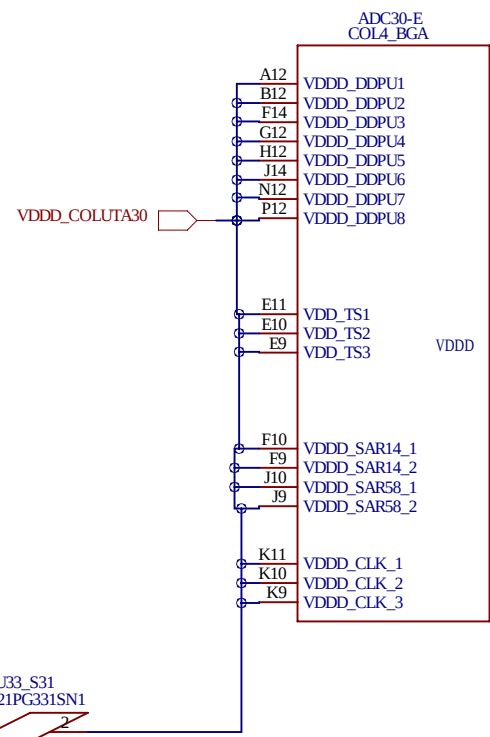
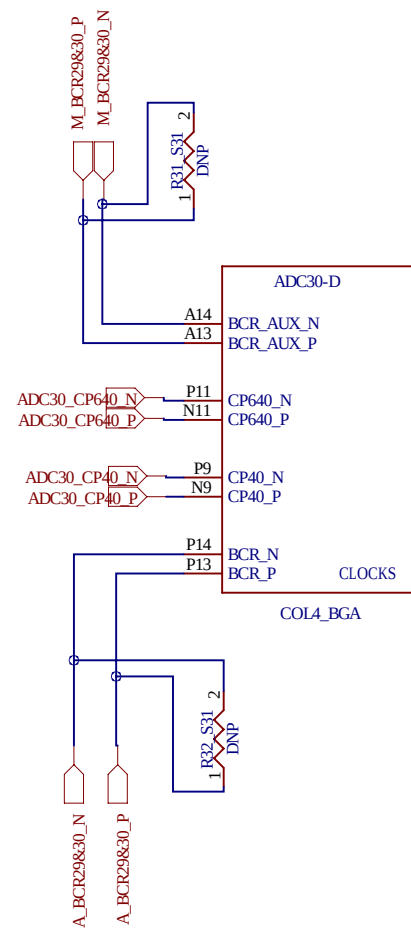
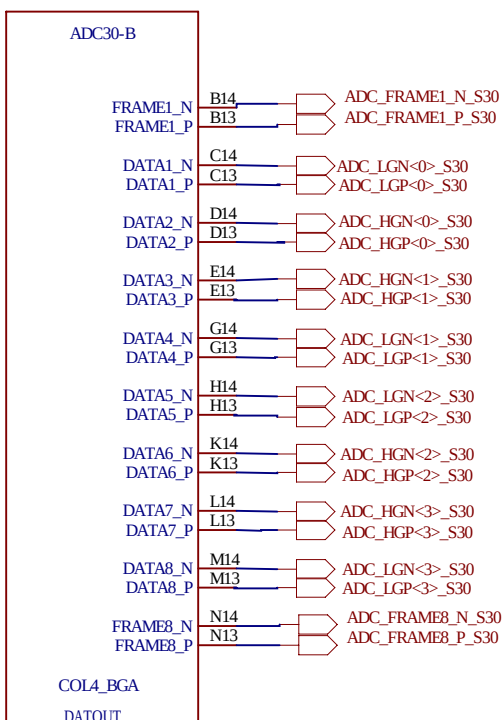
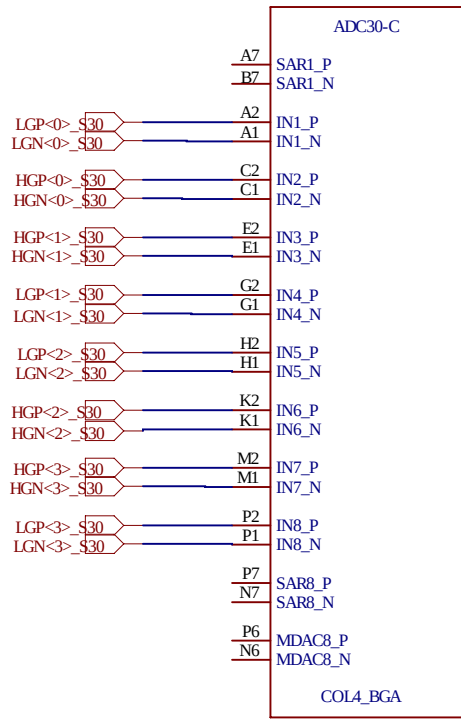
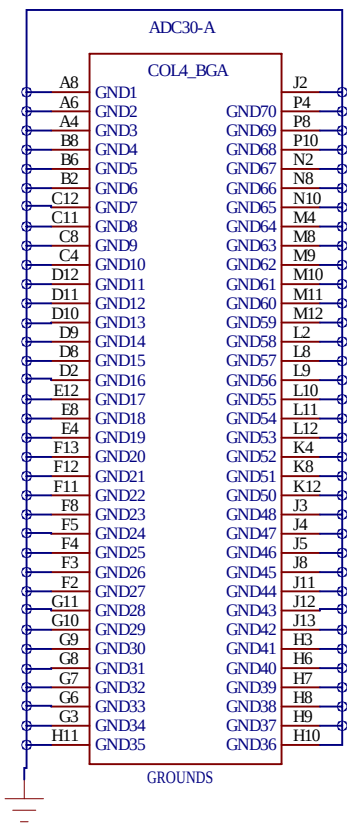
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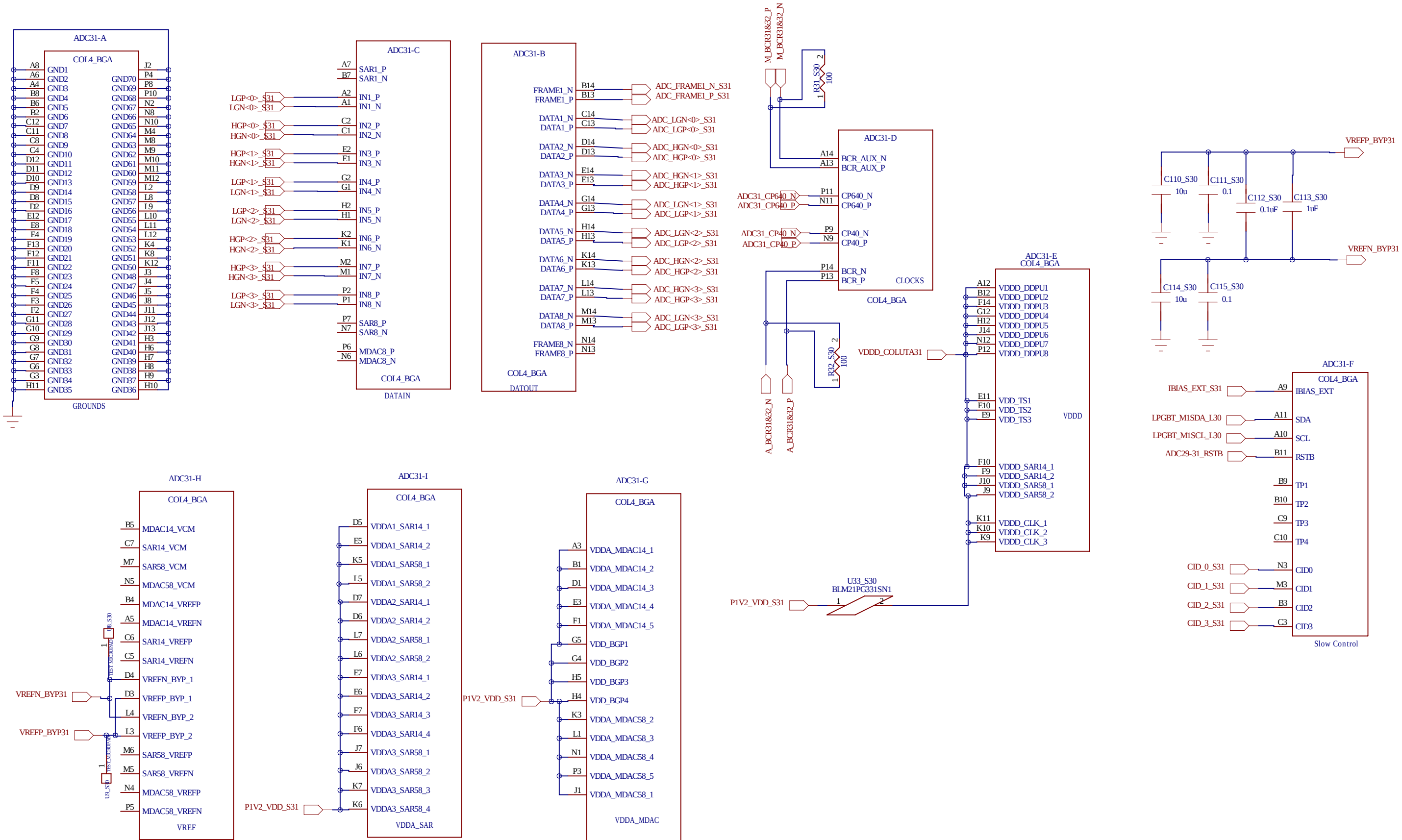
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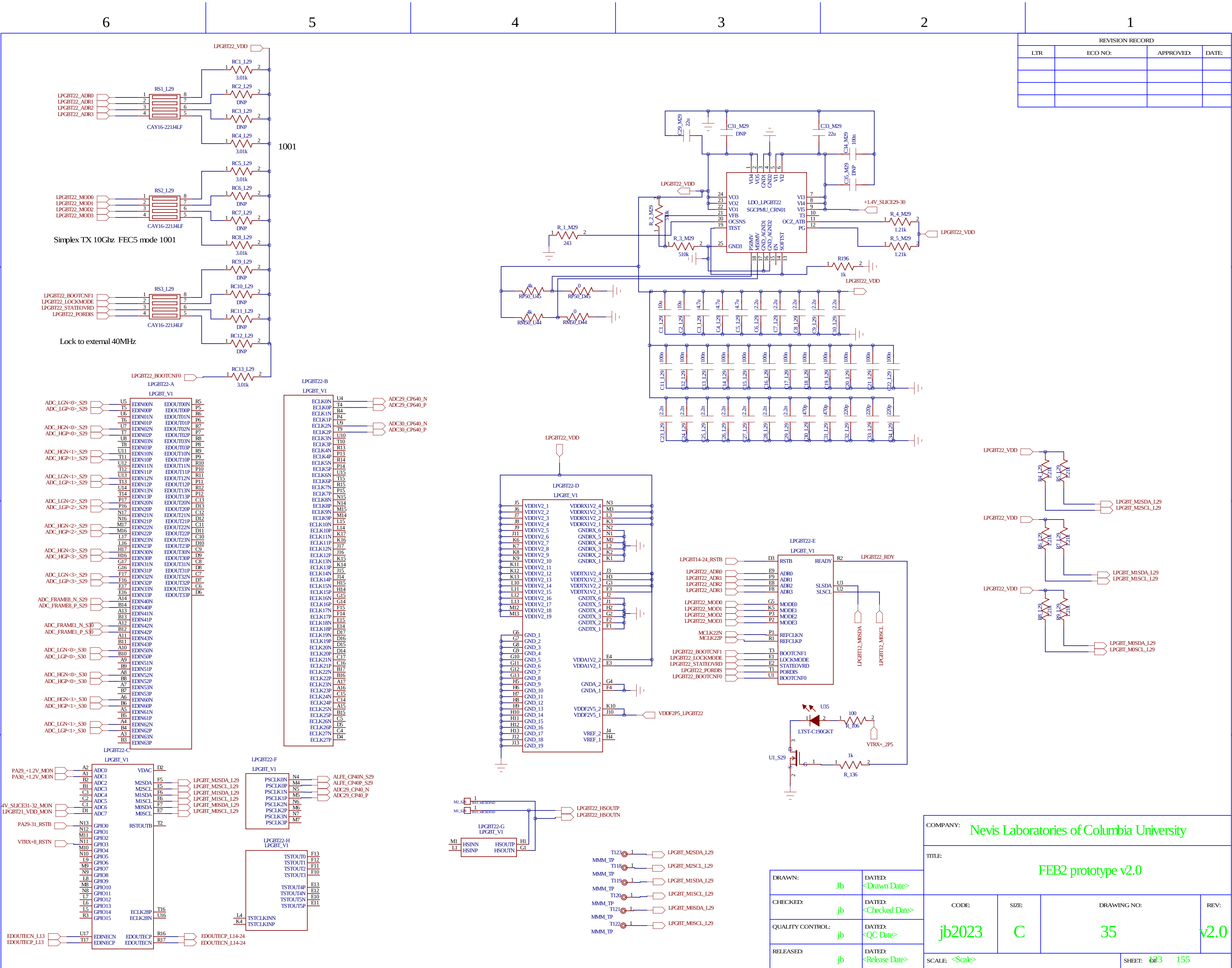
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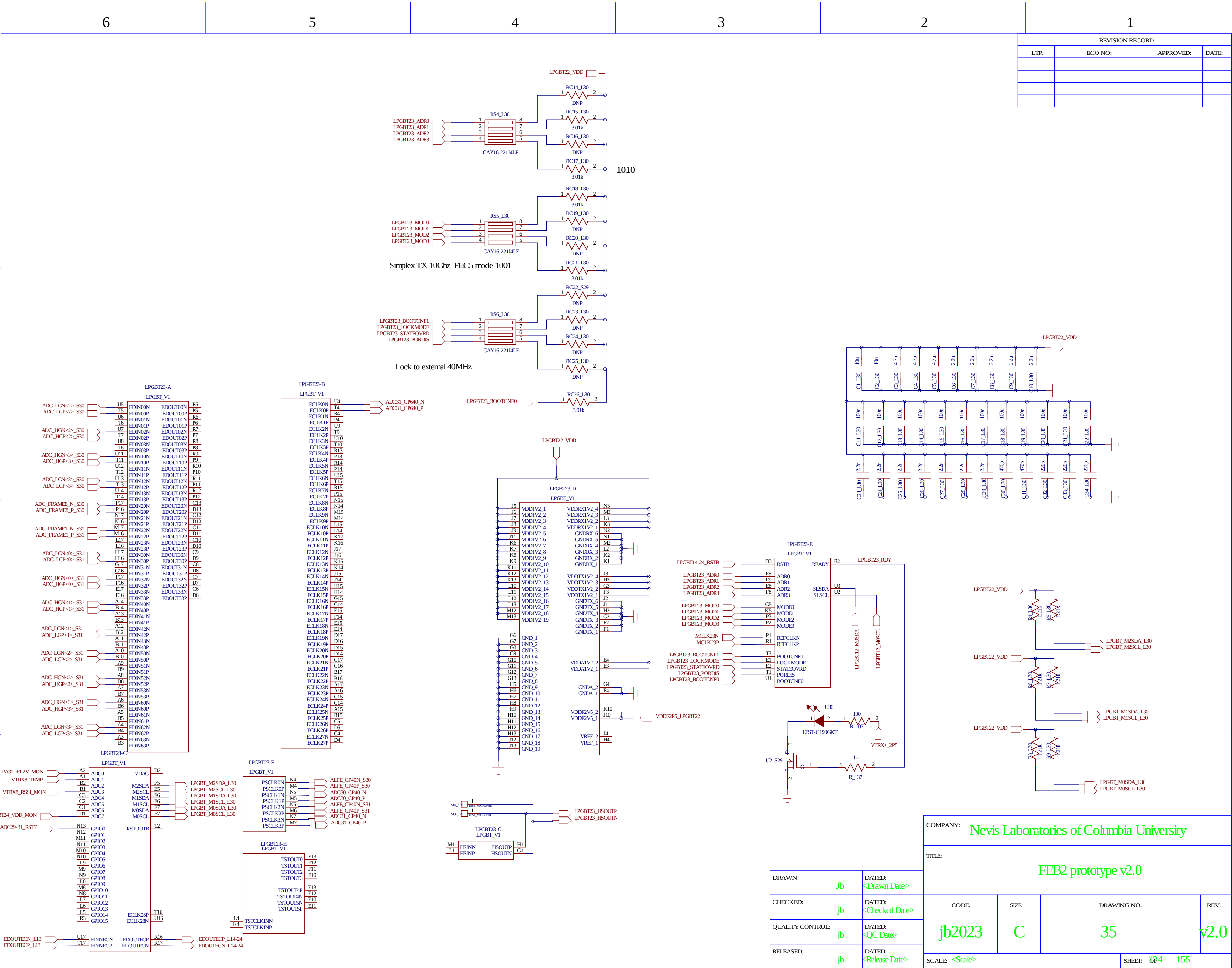
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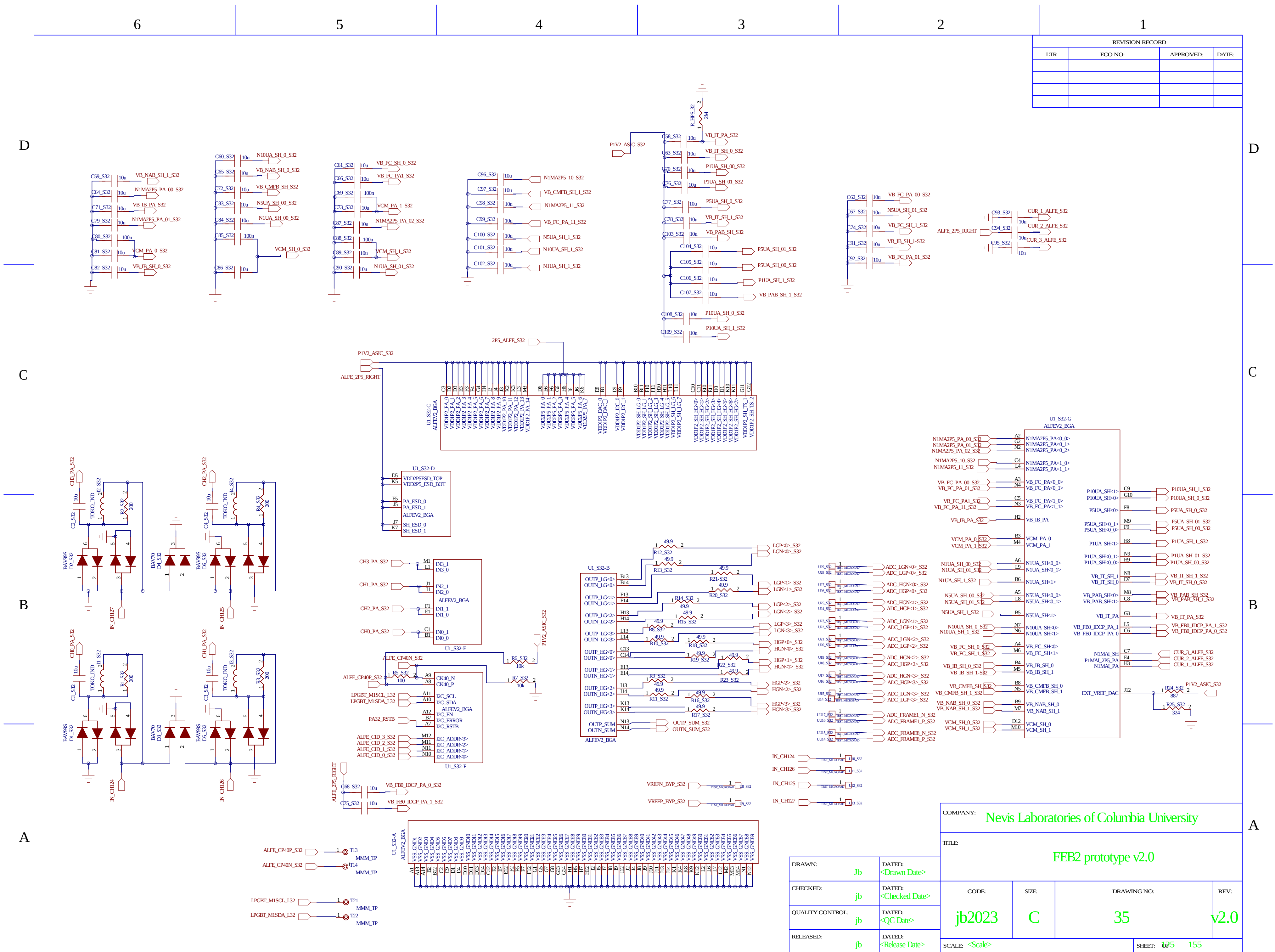
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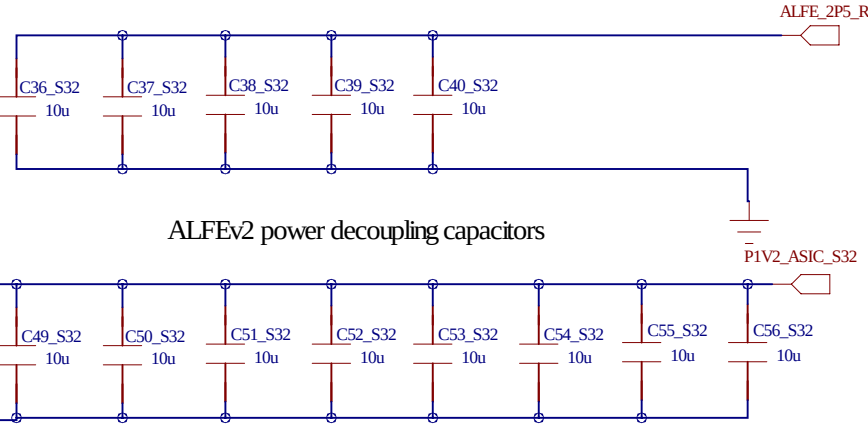
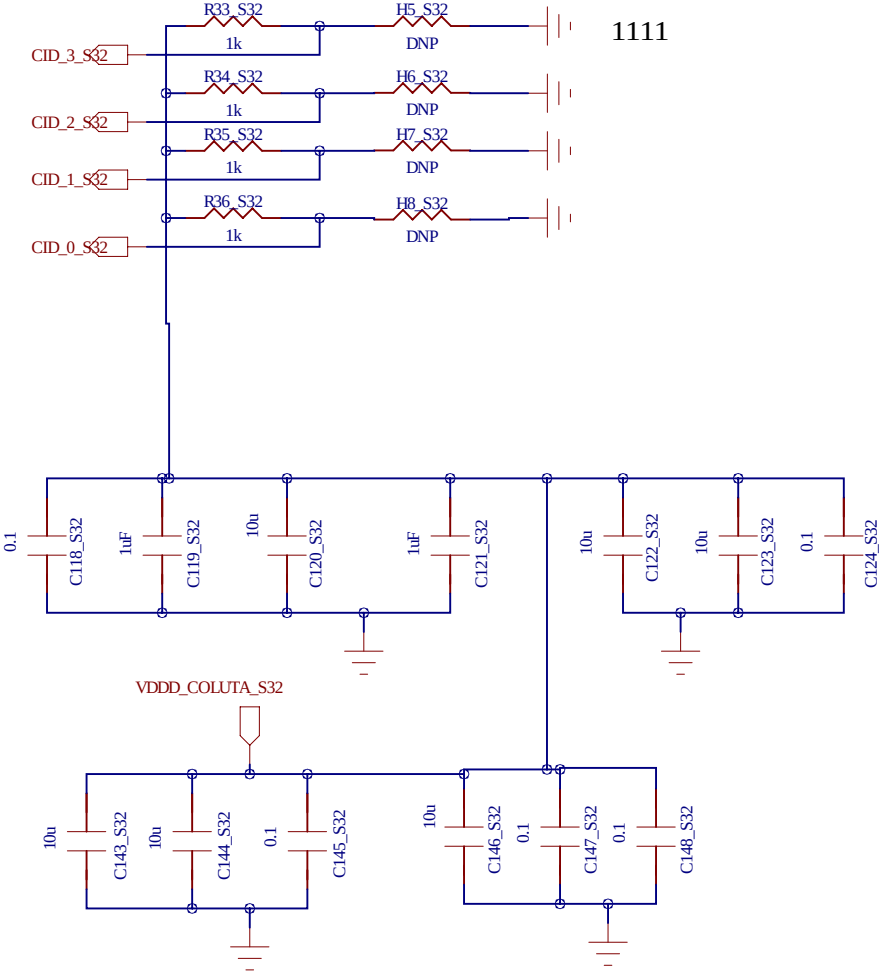
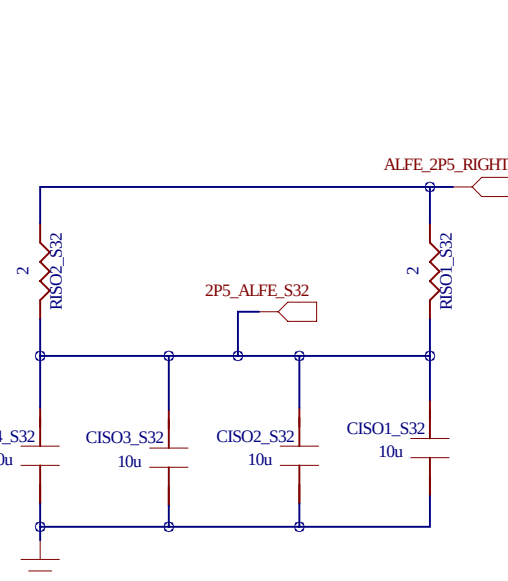
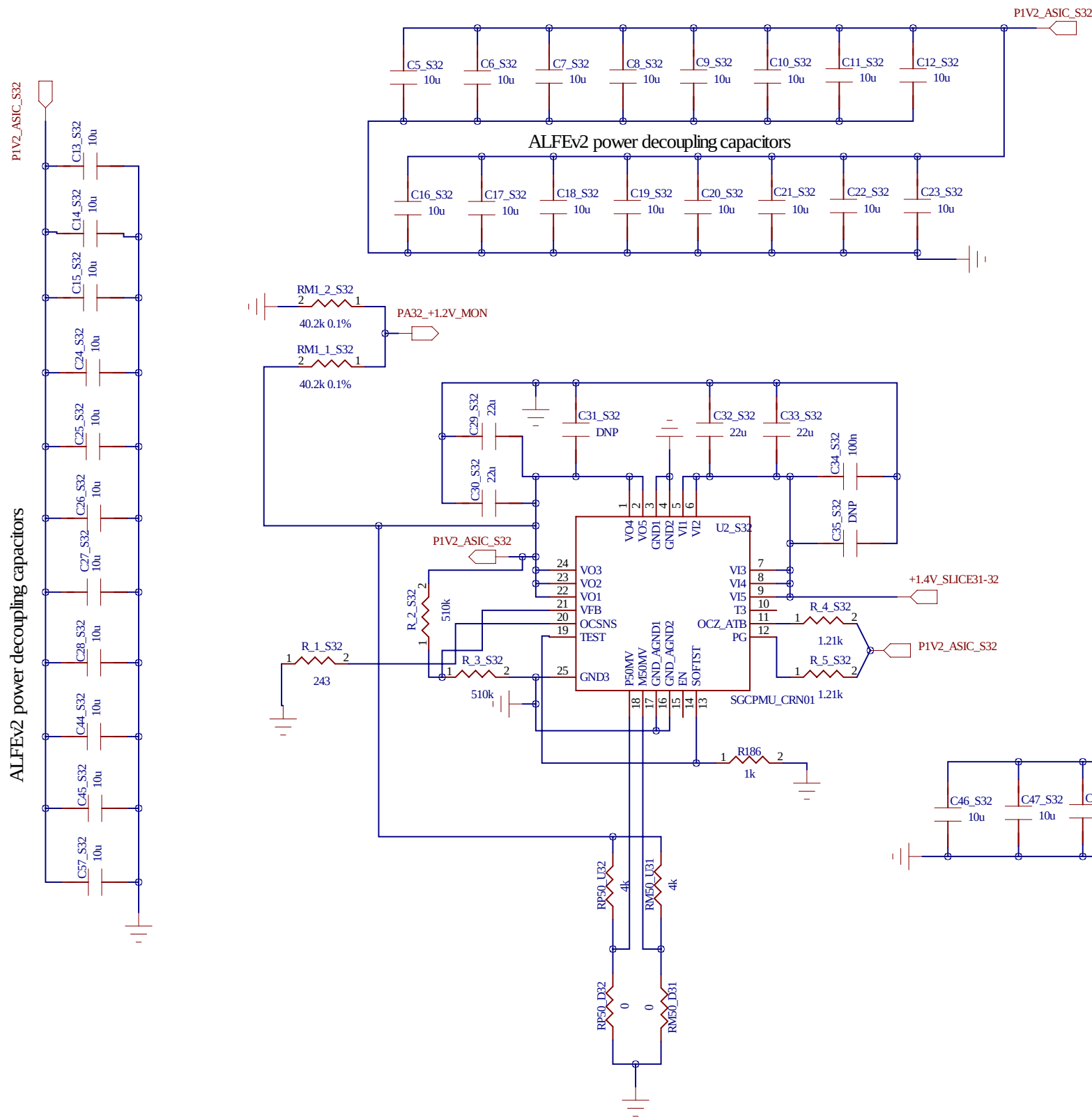
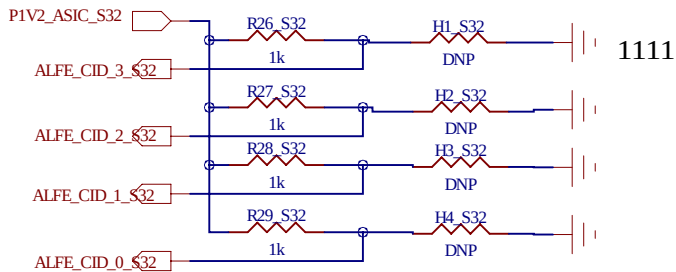
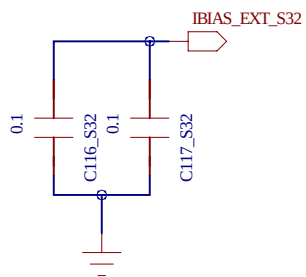
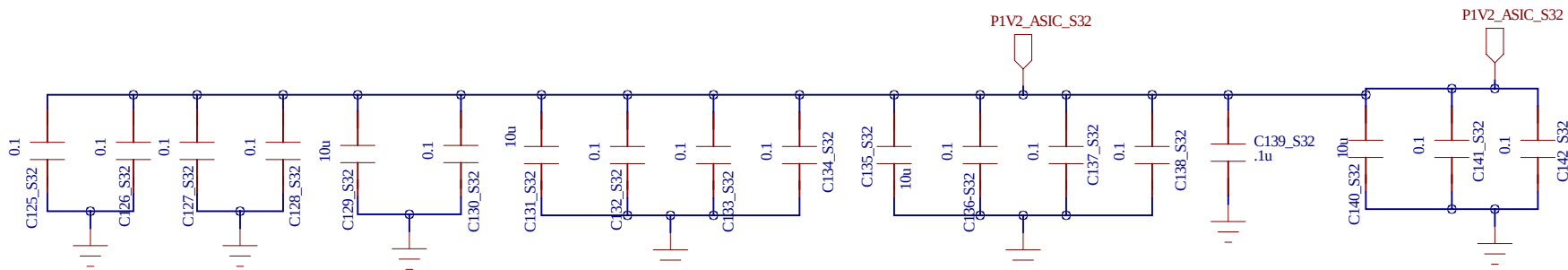
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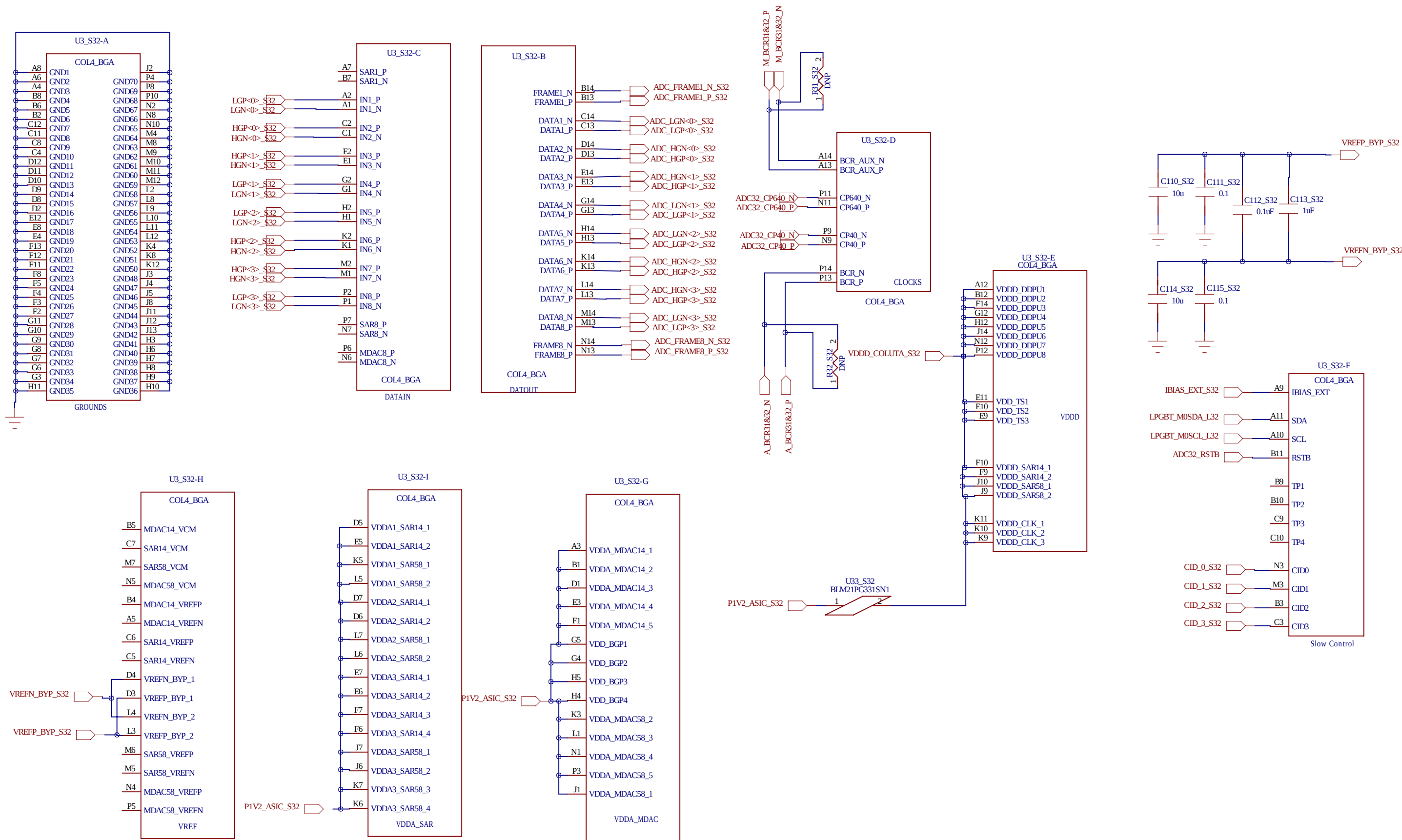
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TITLE: FEB2 prototype v2.0			
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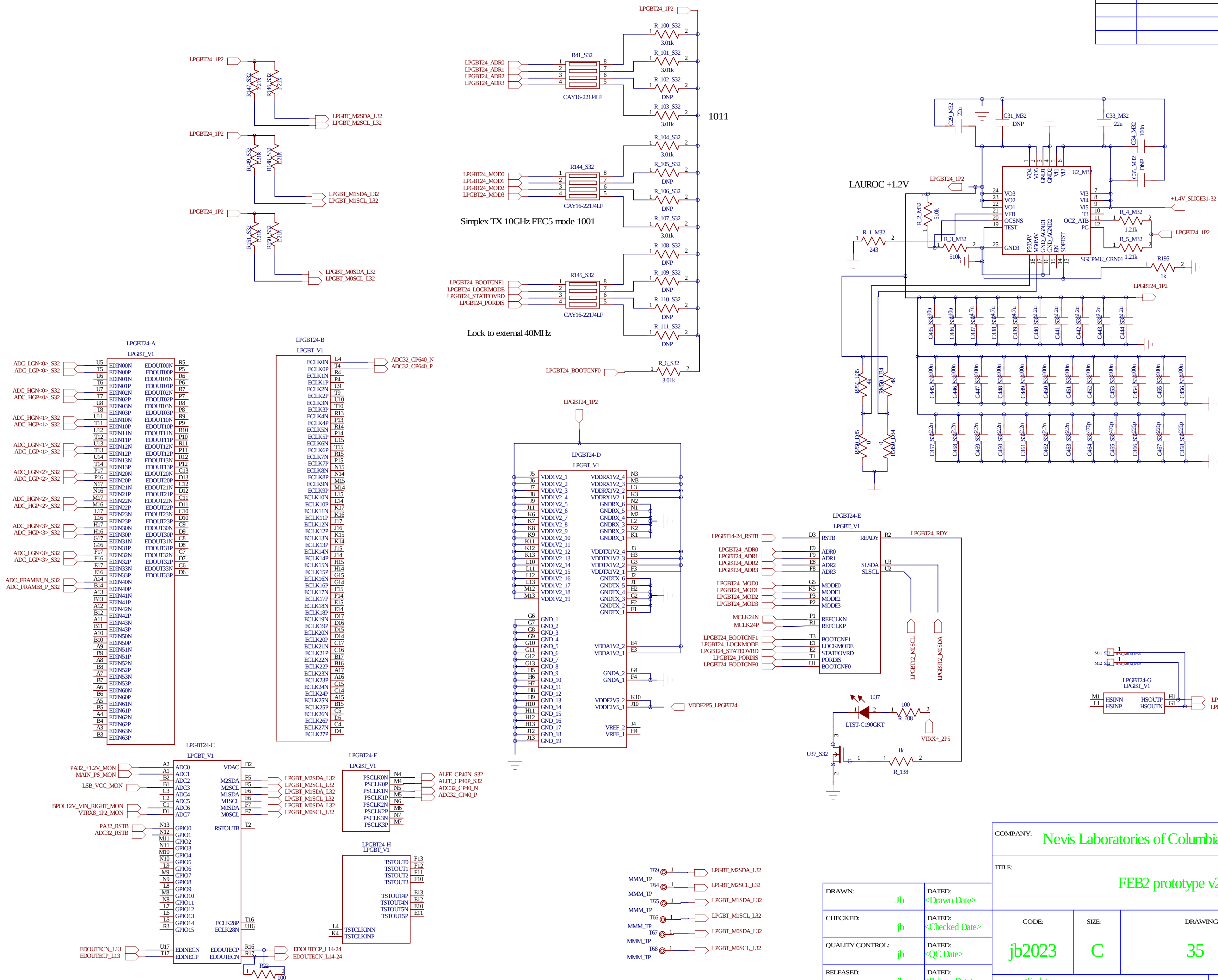
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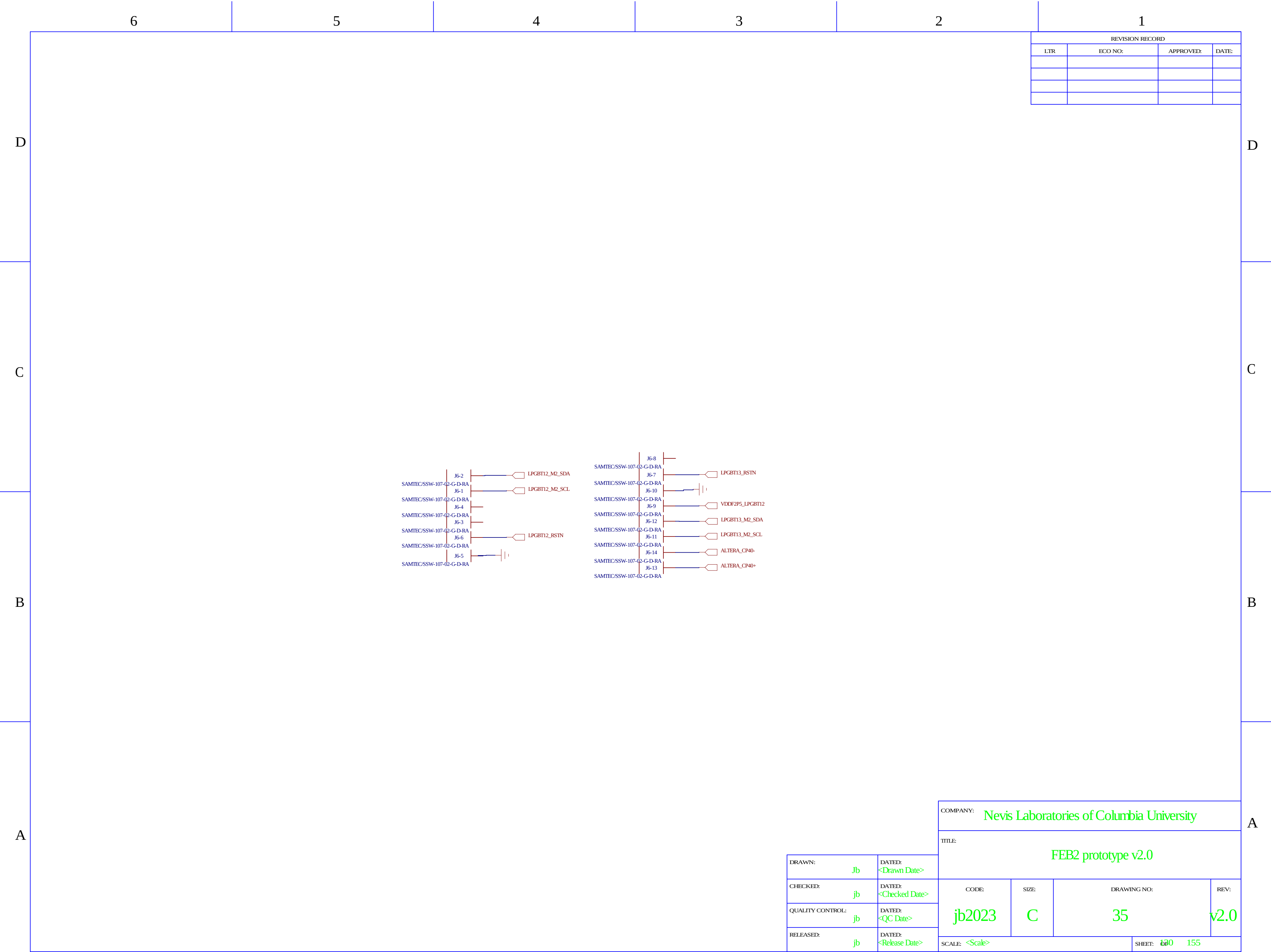
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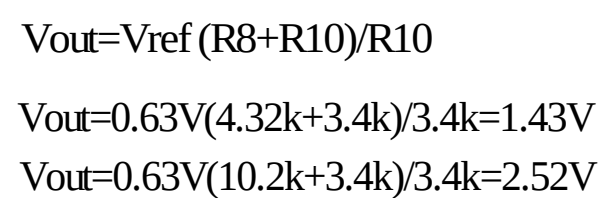
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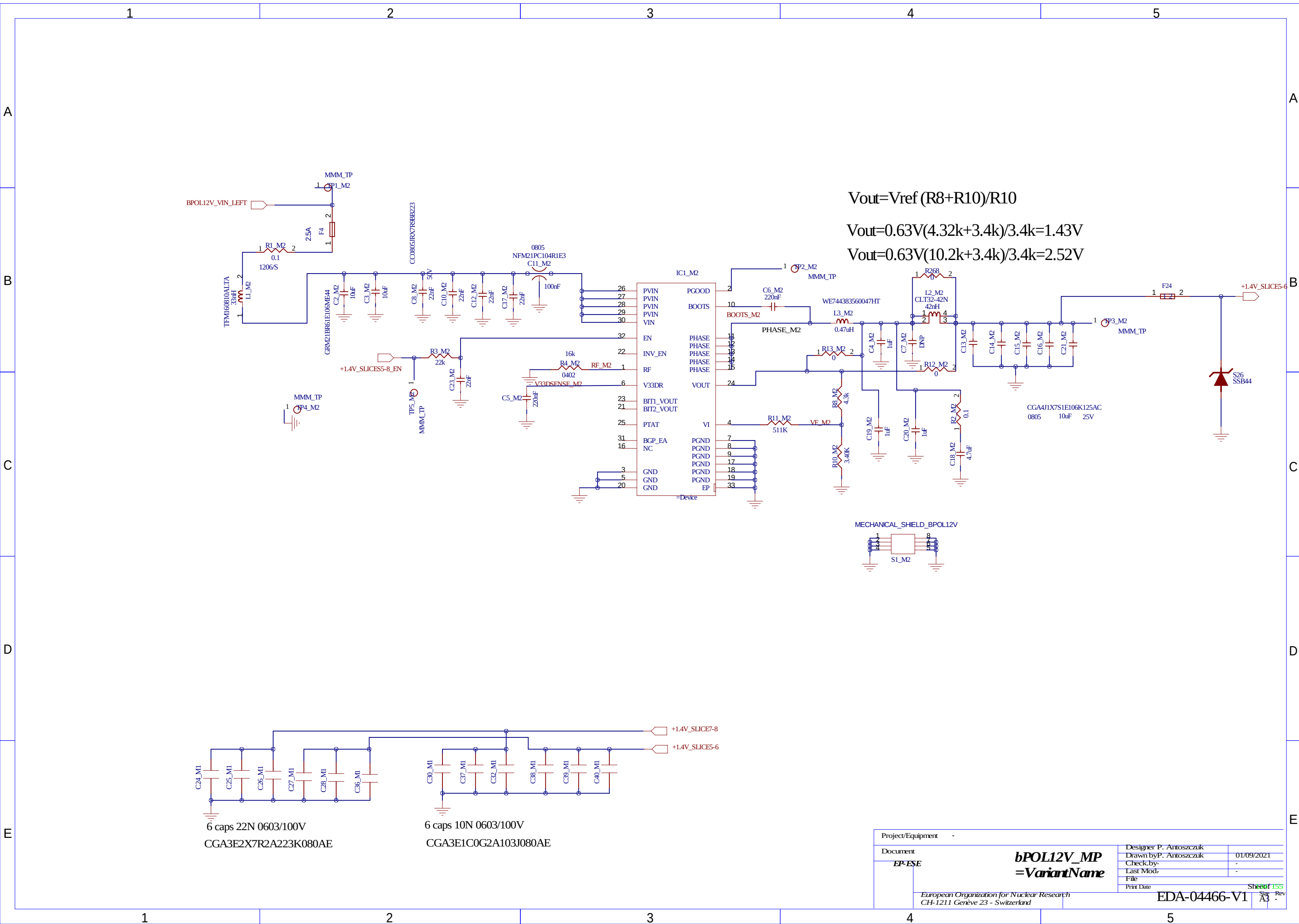
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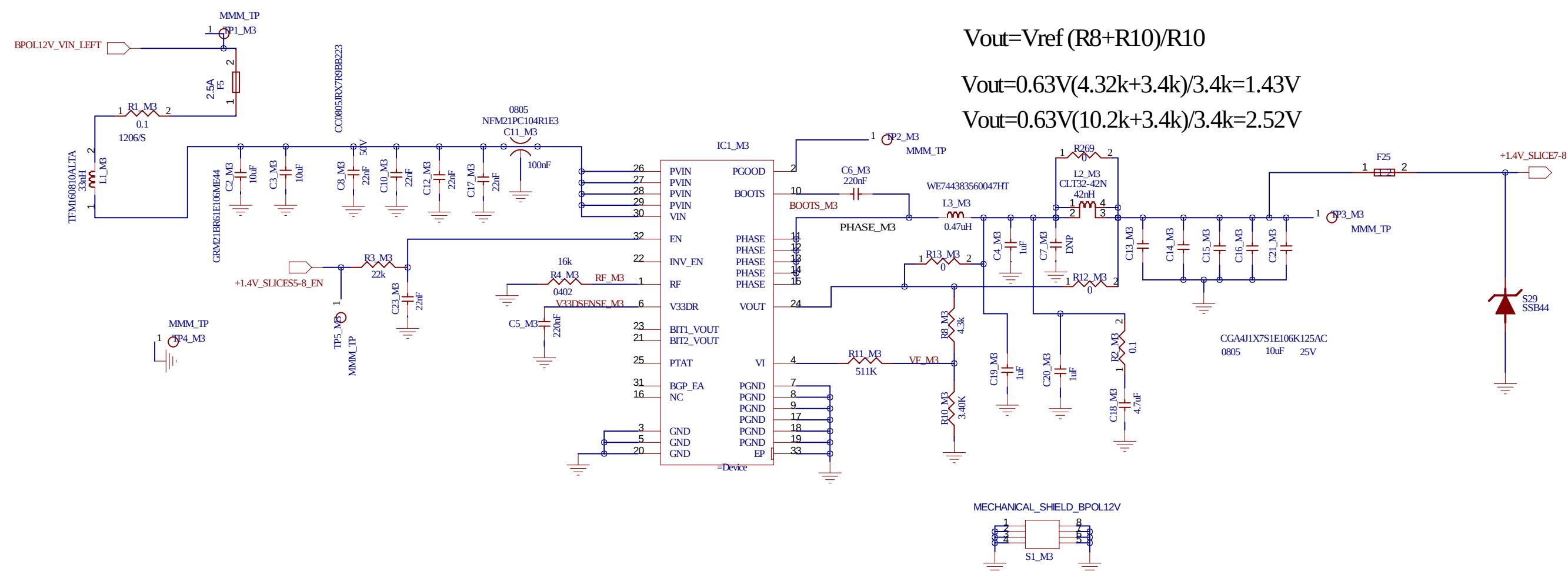


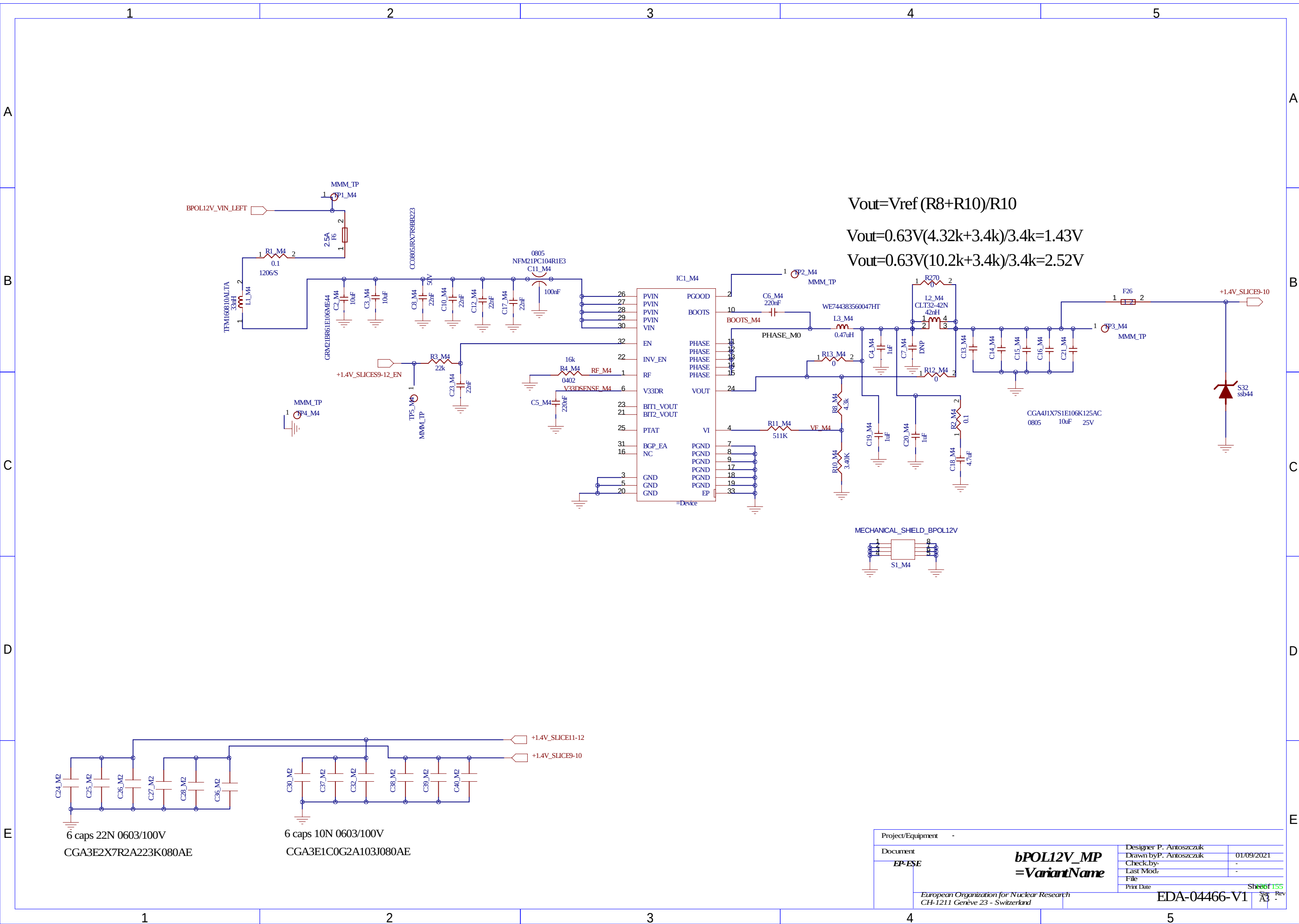


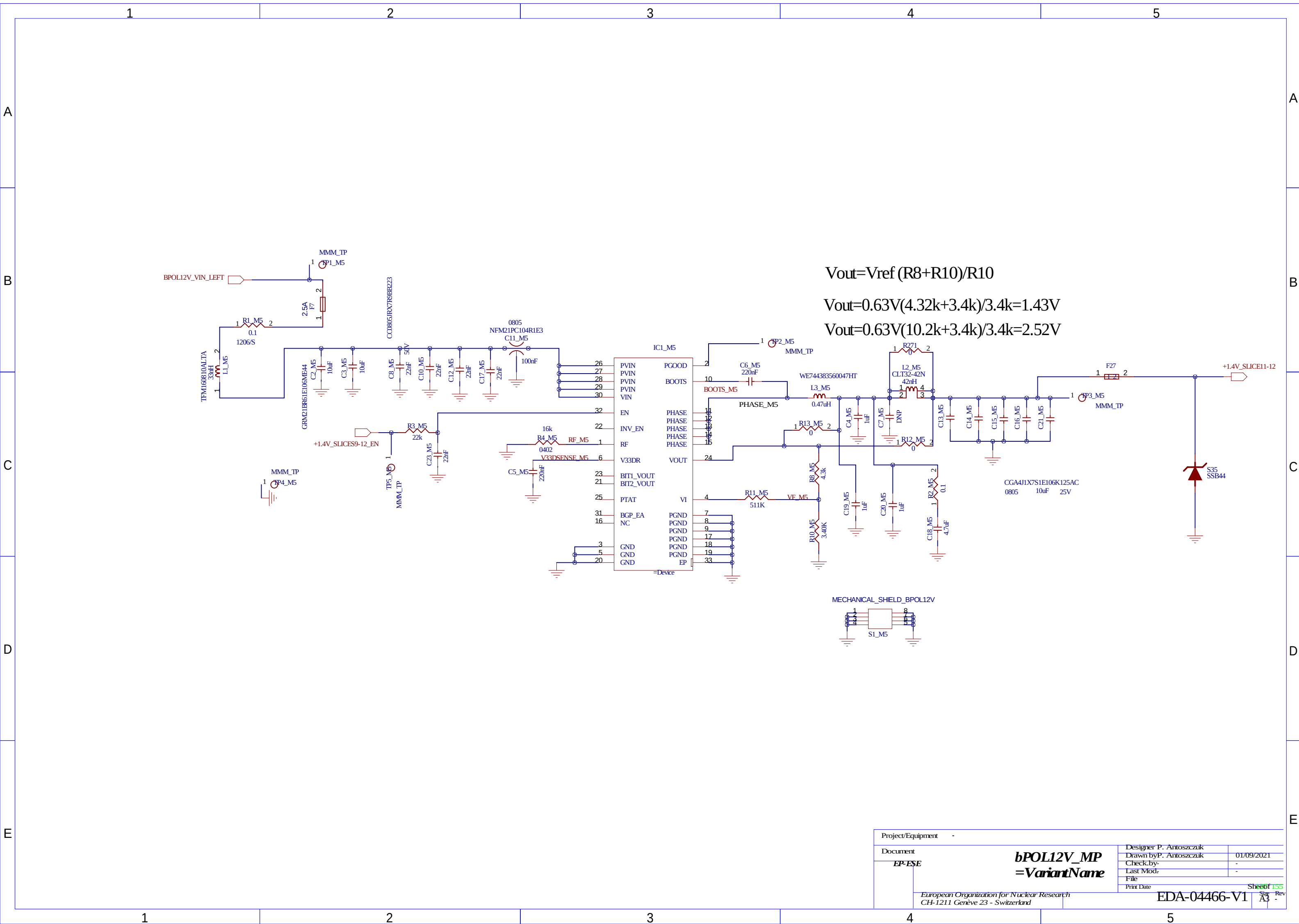


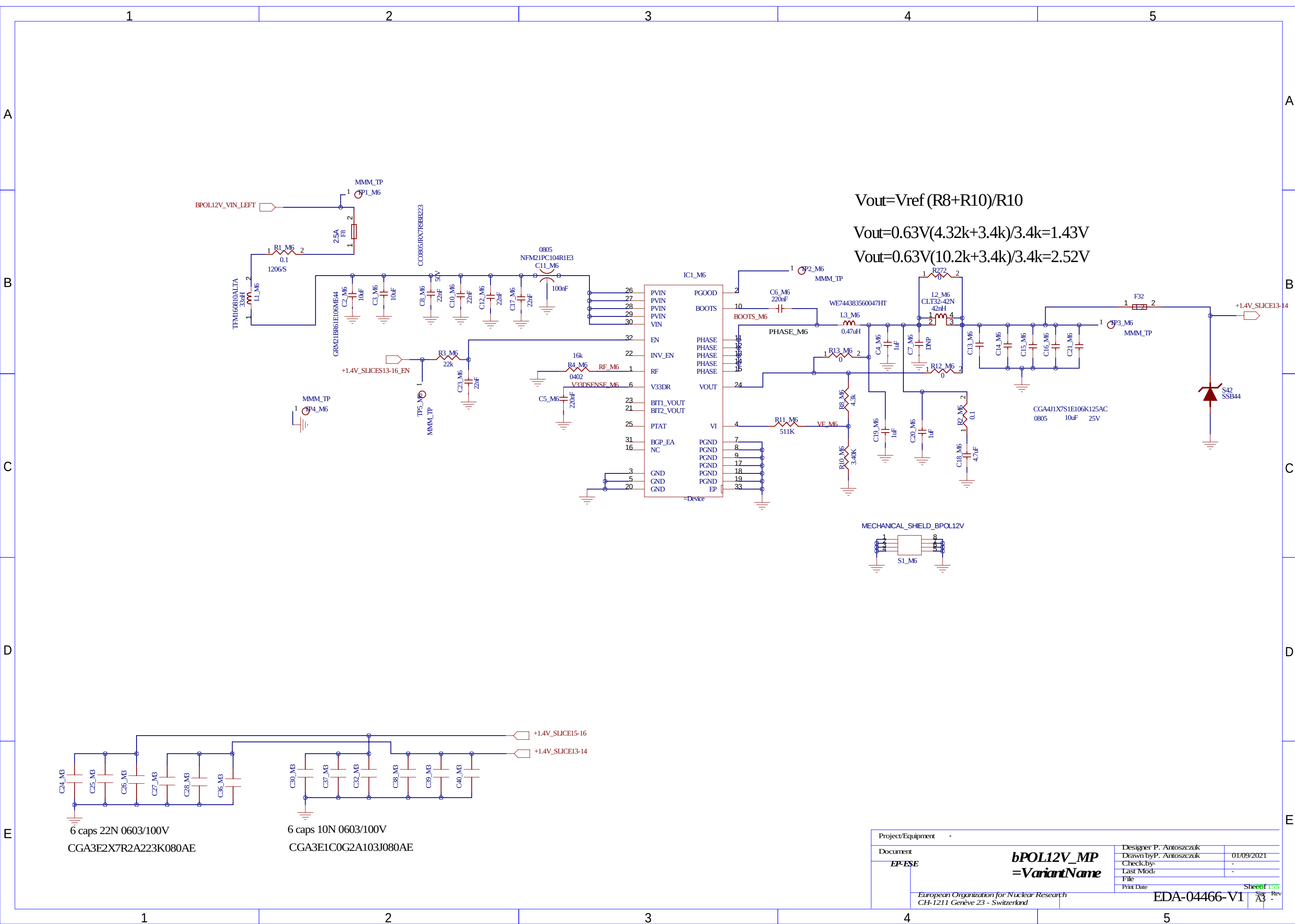
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European Organization for Nuclear Research CH-1211 Genève 23 - Switzerland			

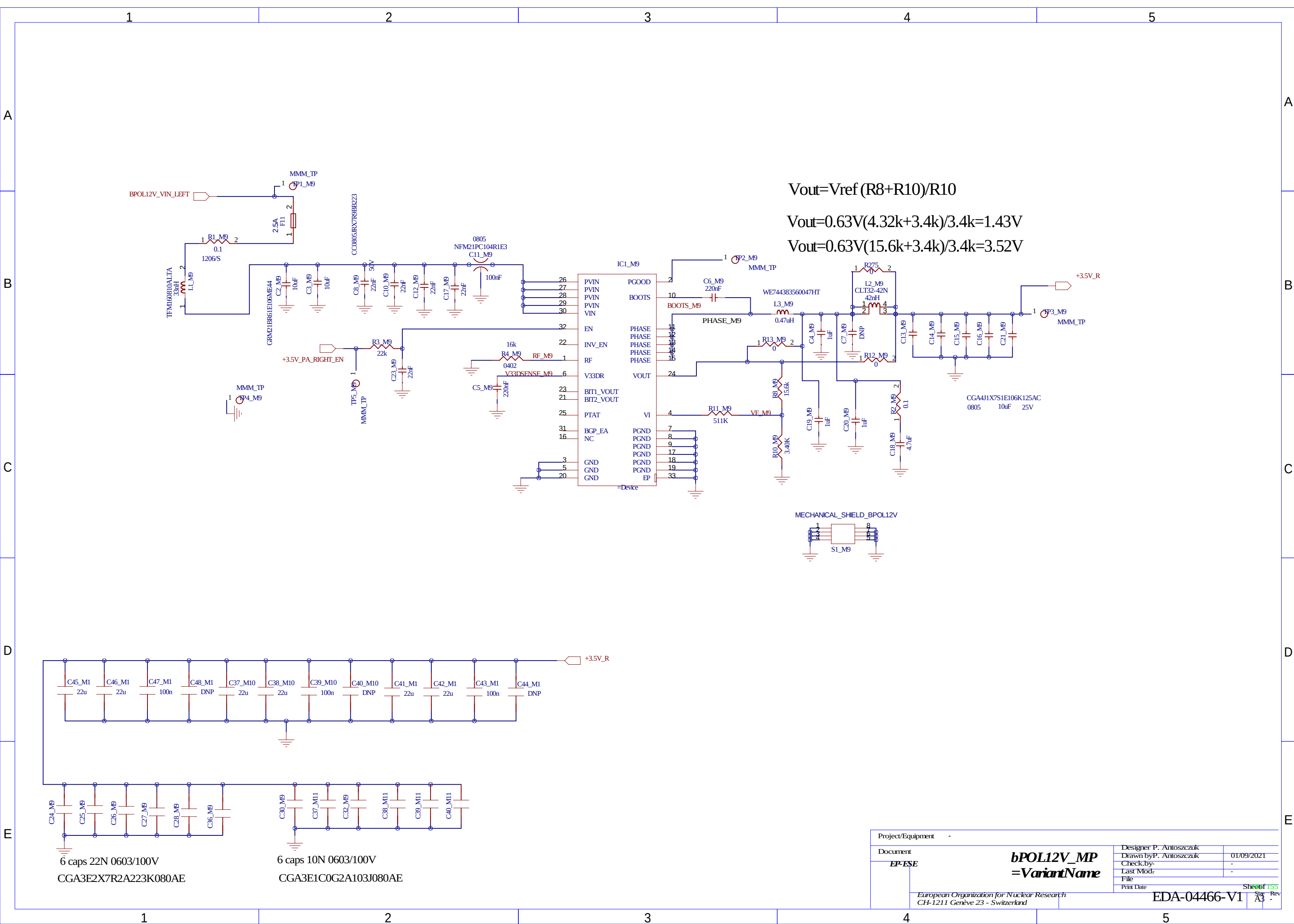


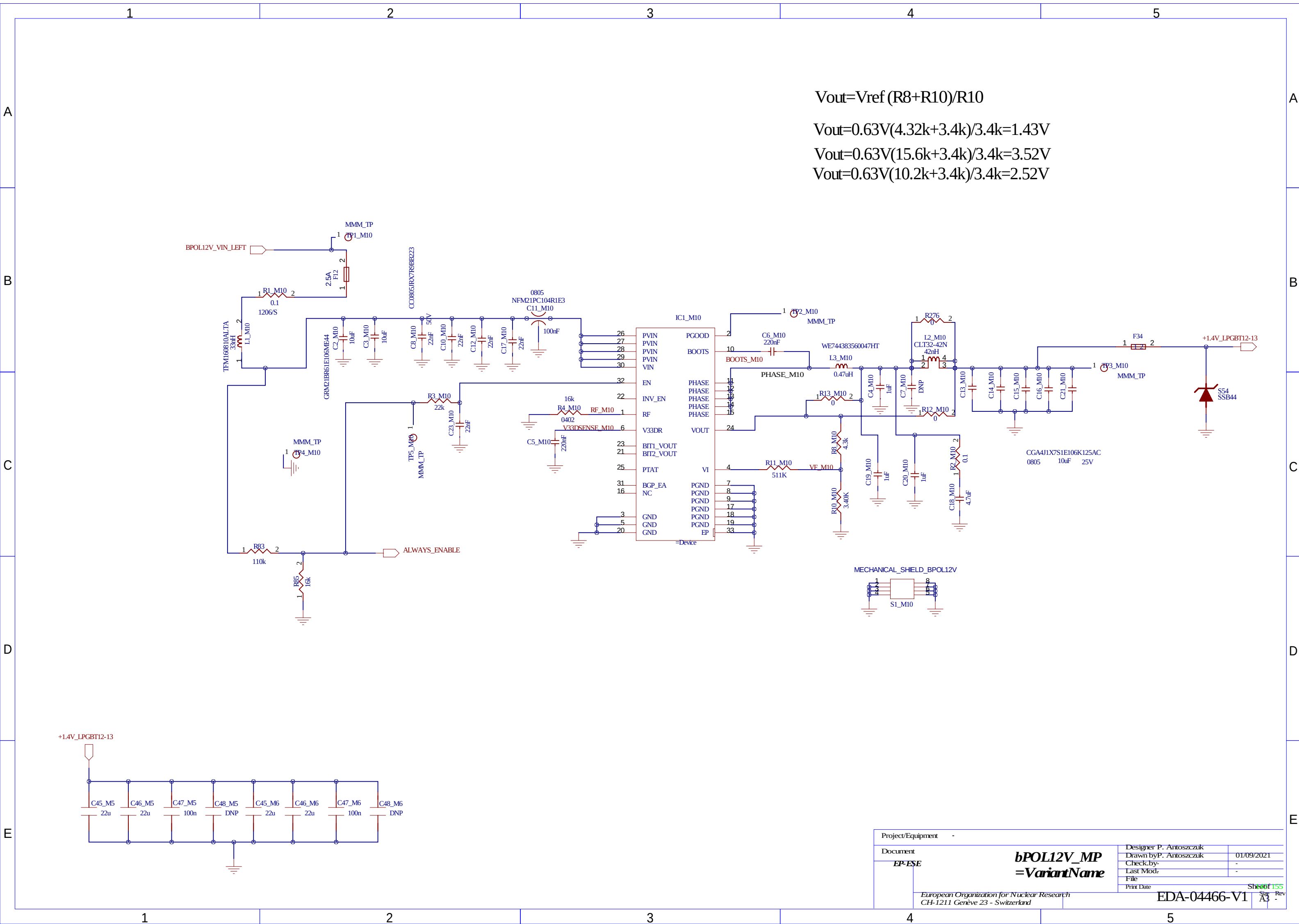


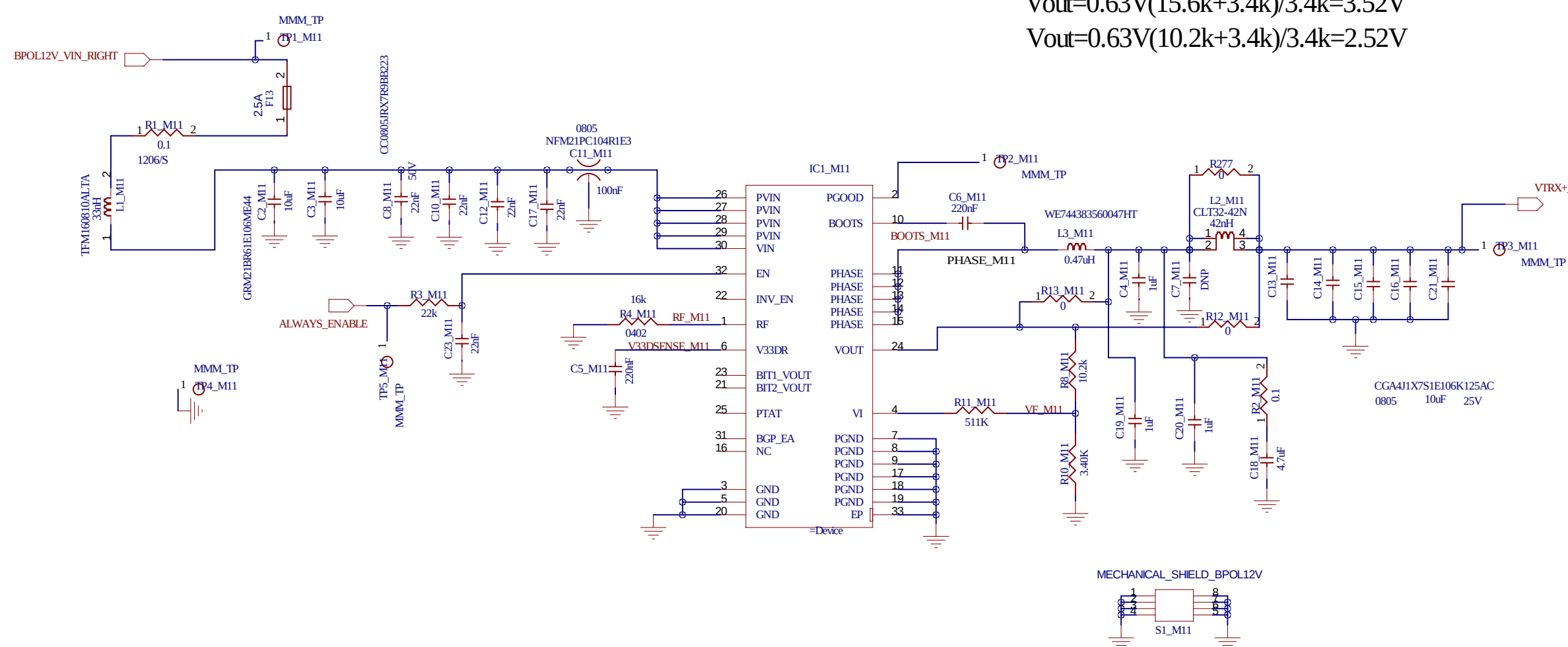










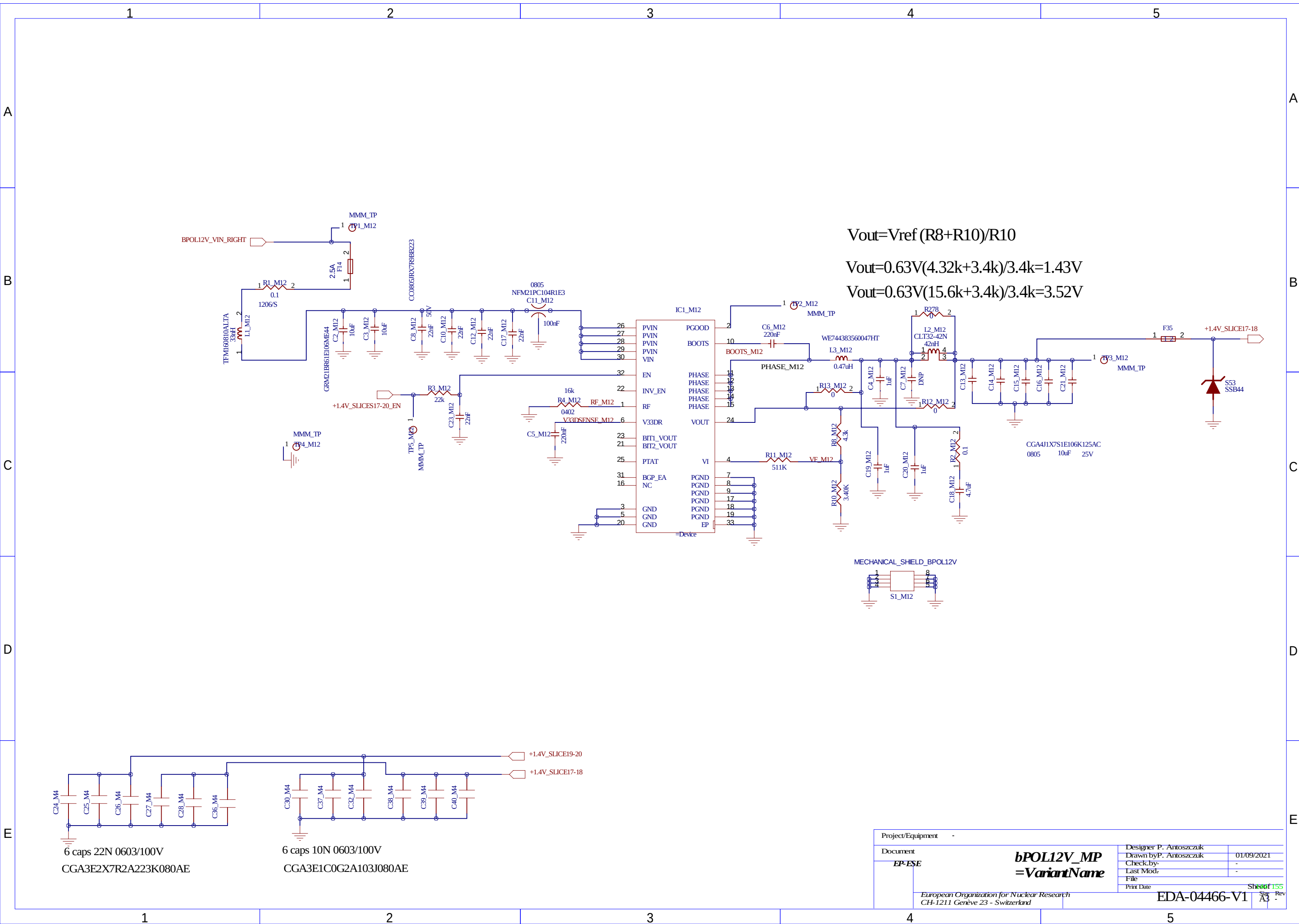


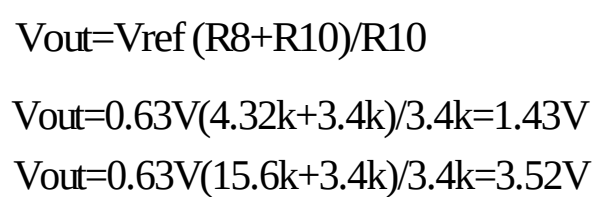
$$V_{out}=V_{ref} (R8+R10)/R10$$

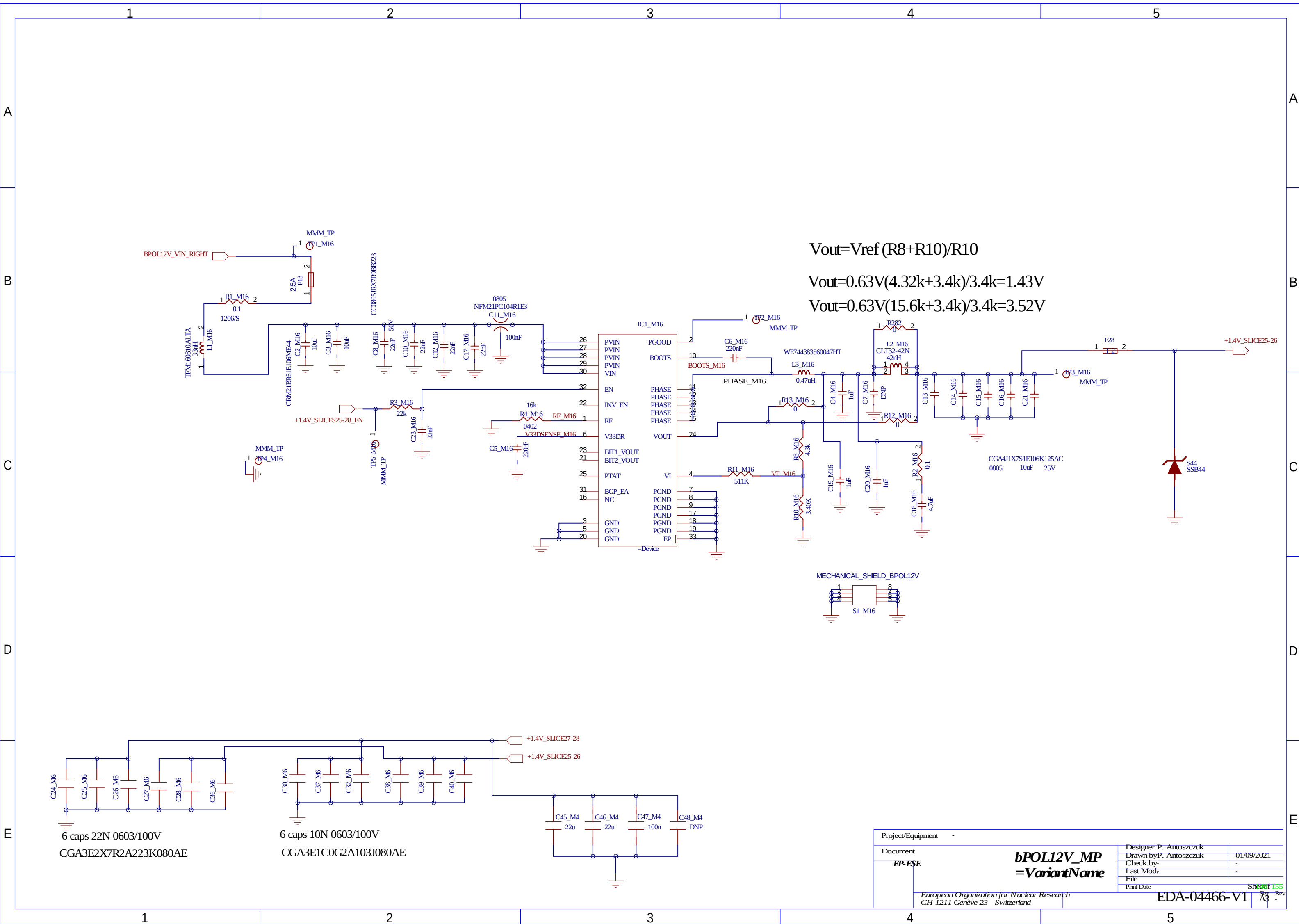
$$V_{out}=0.63V(4.32k+3.4k)/3.4k=1.43V$$

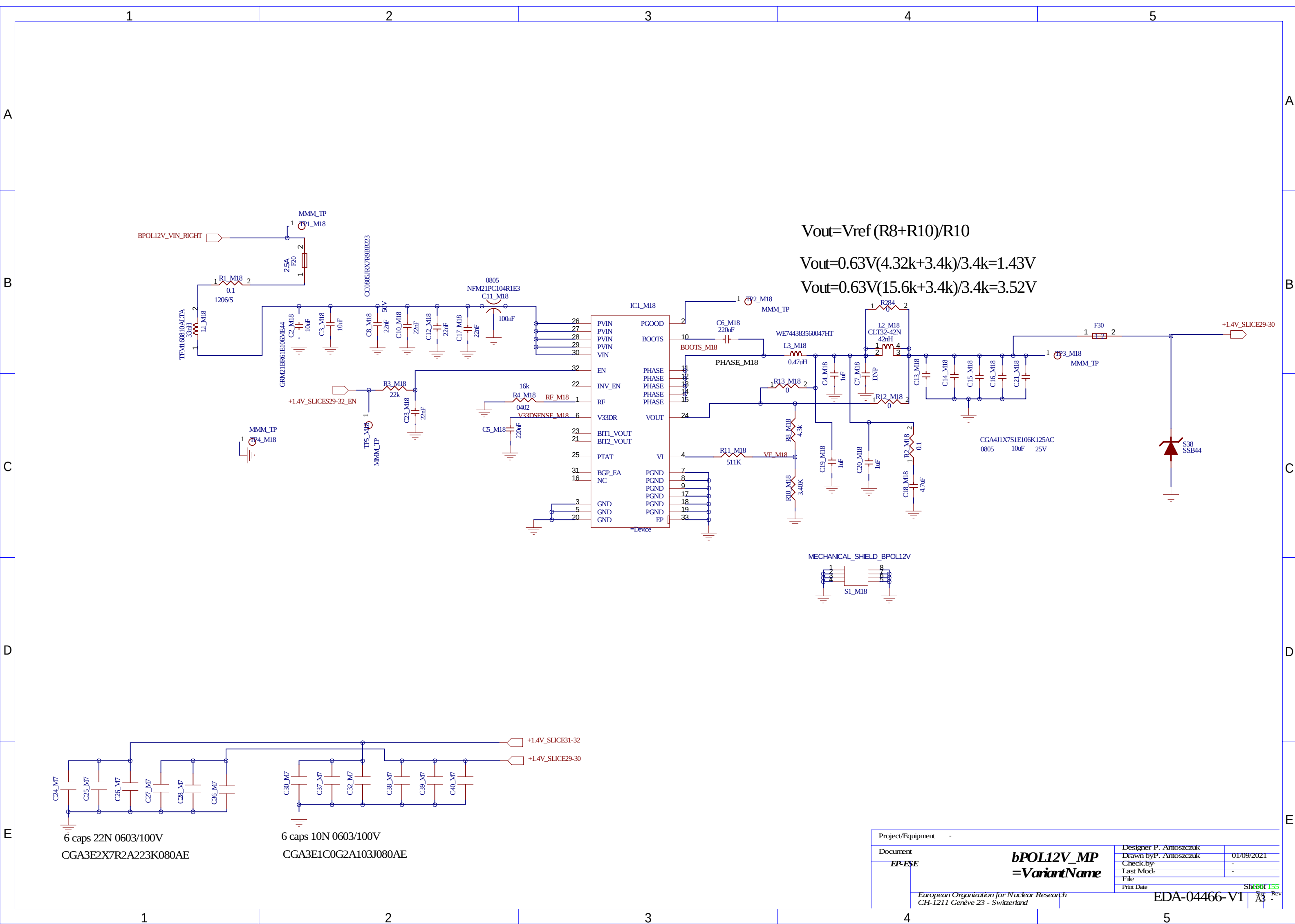
$$V_{out}=0.63V(15.6k+3.4k)/3.4k=3.52V$$

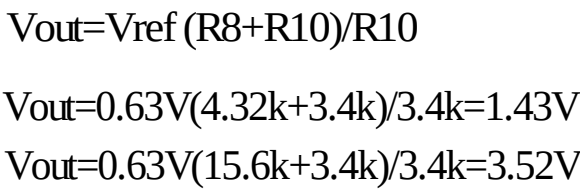
$$V_{out} = 0.63V(10.2k + 3.4k)/3.4k = 2.52V$$











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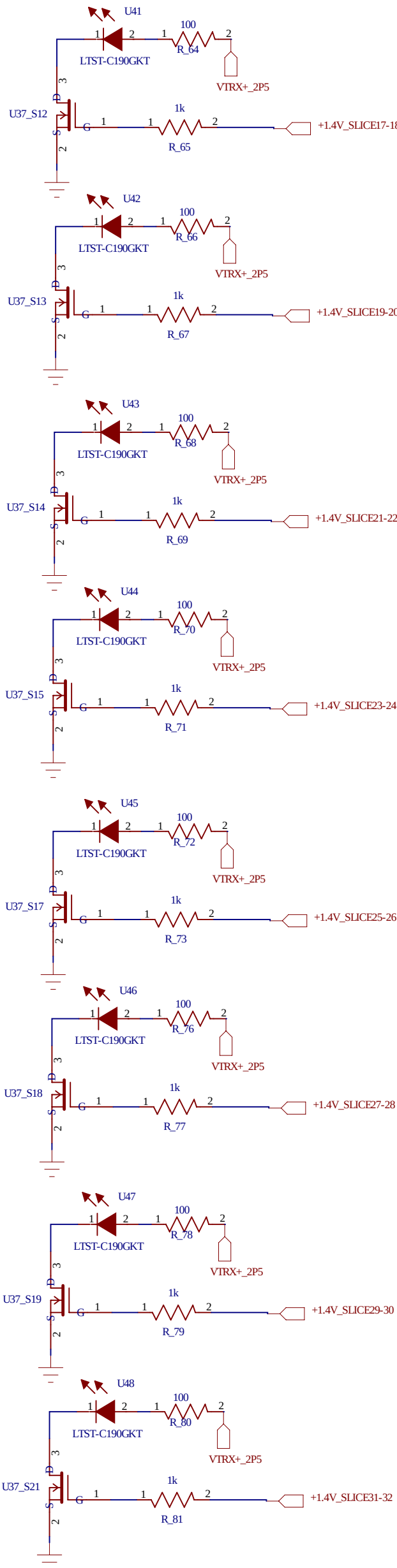
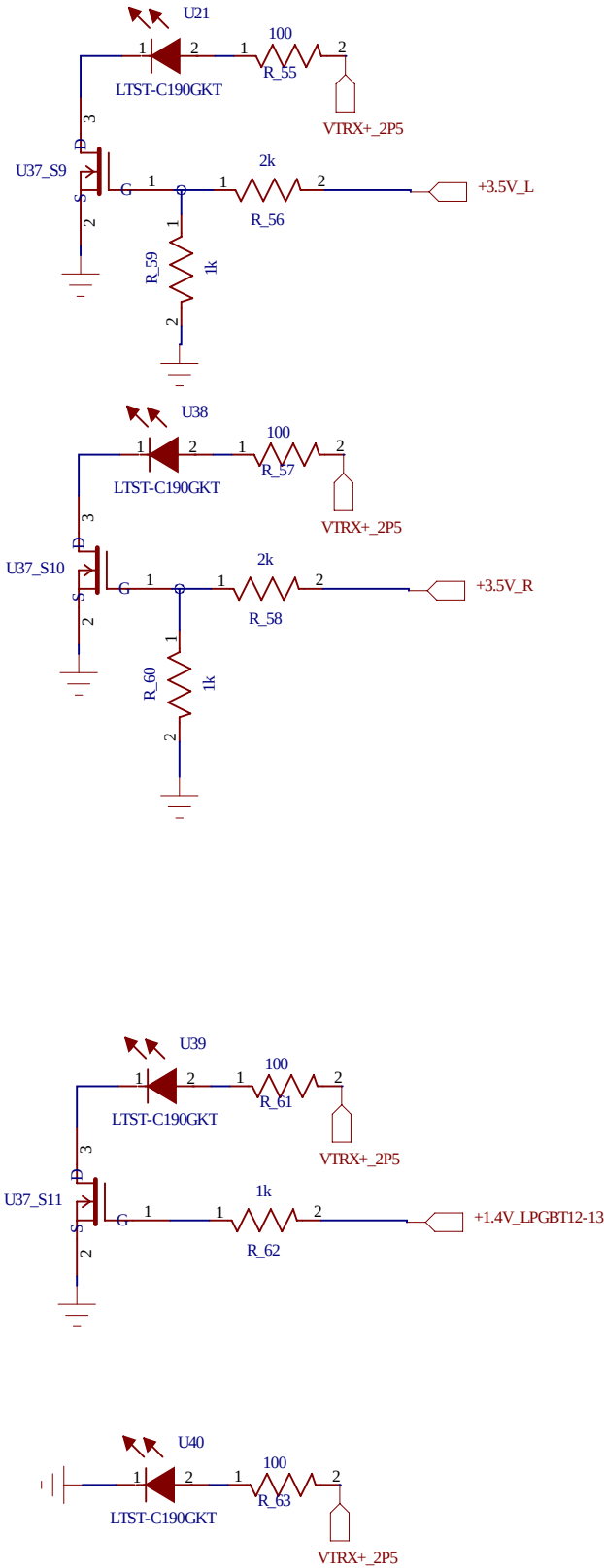
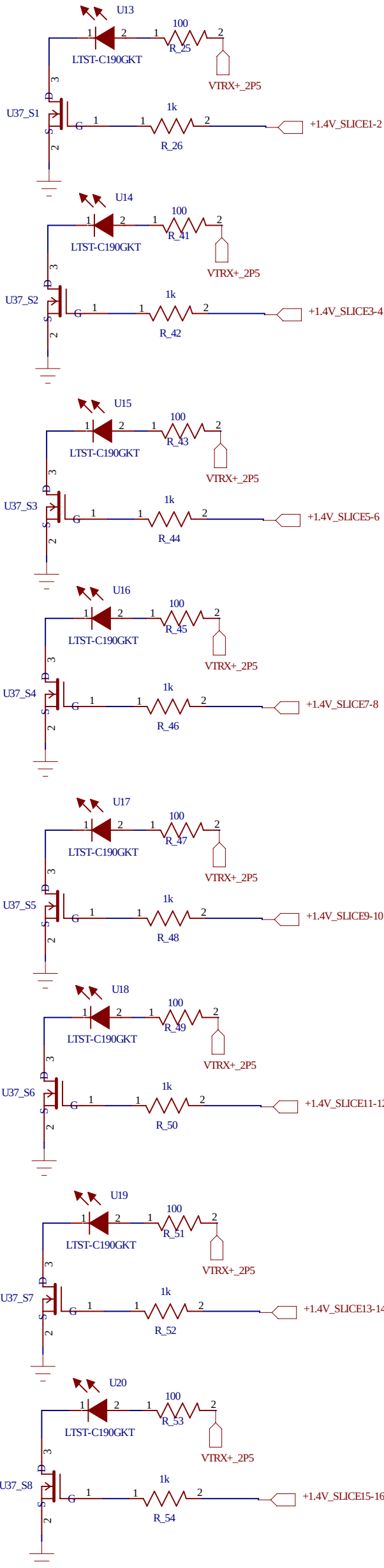
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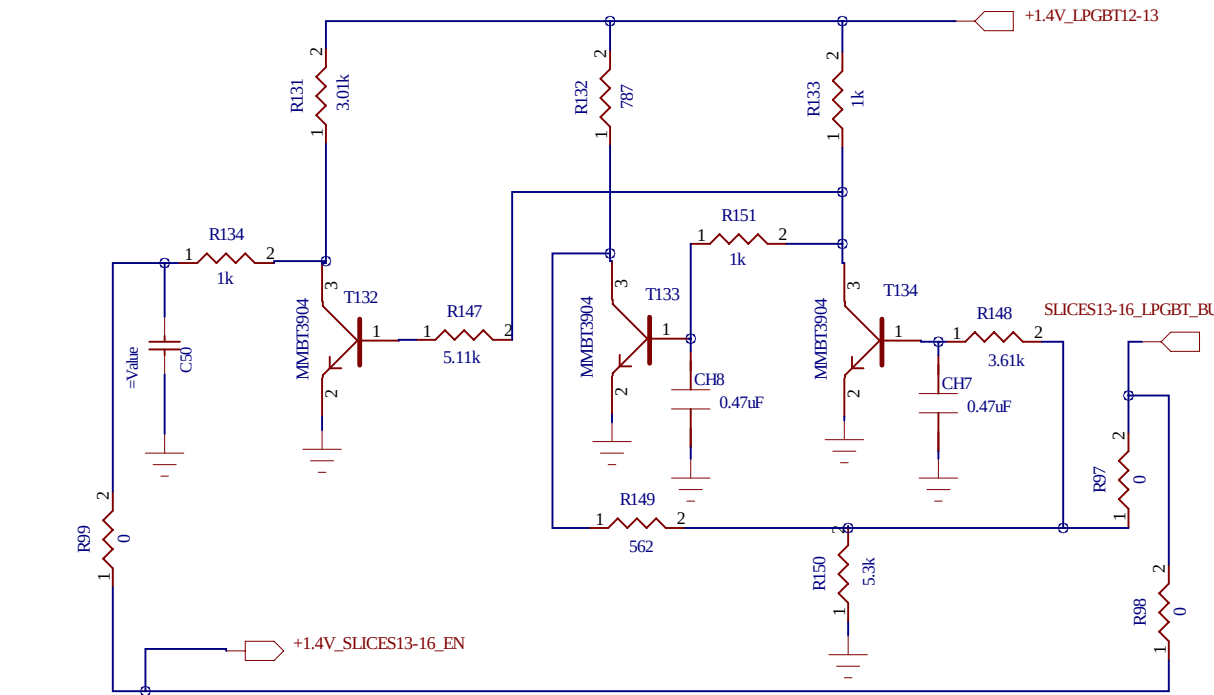
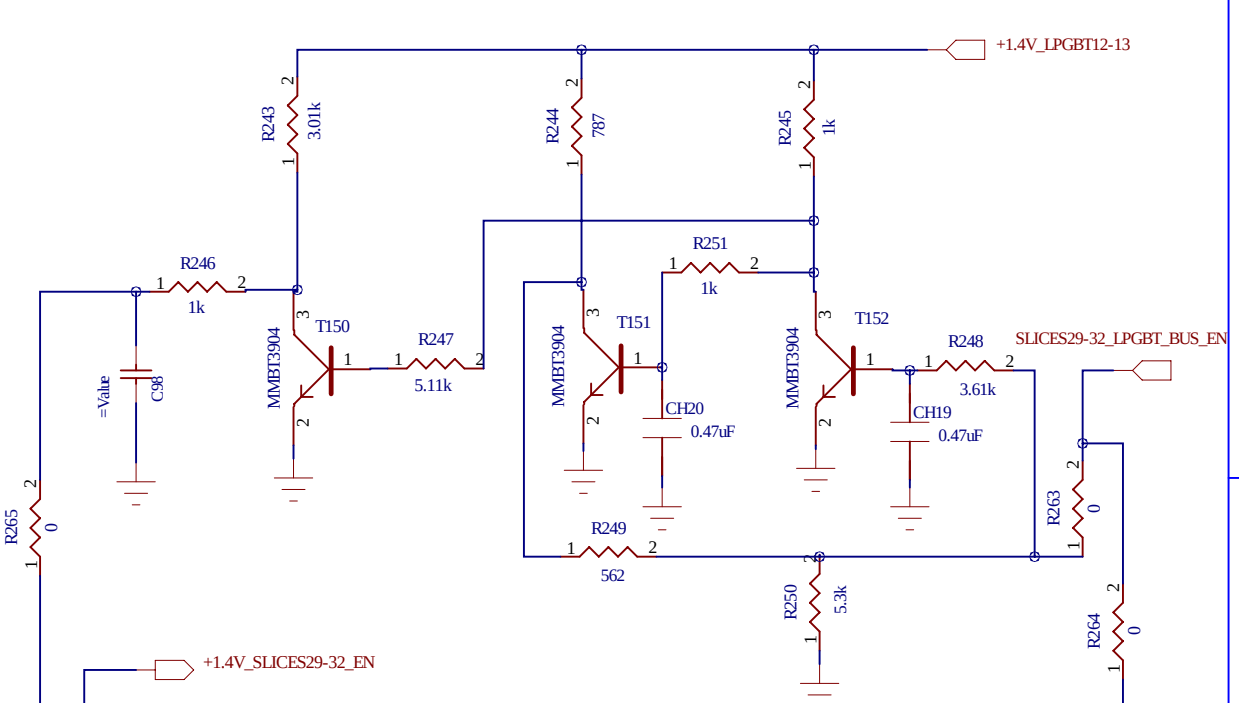
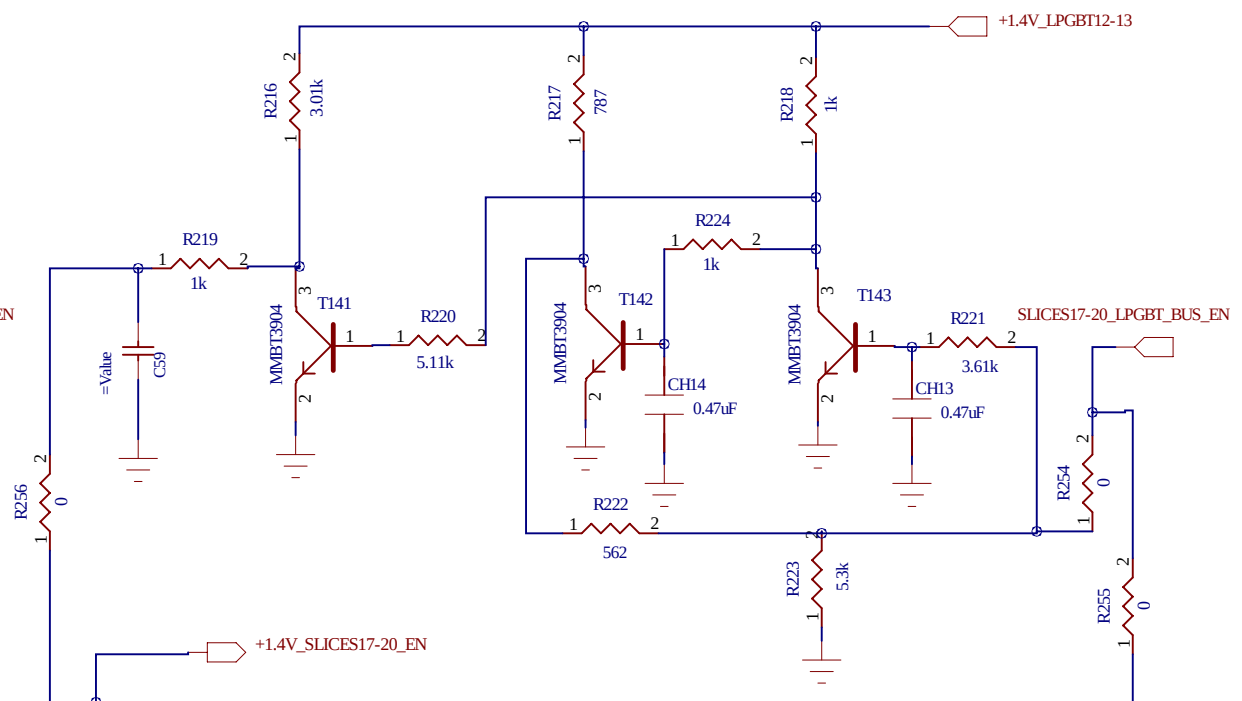
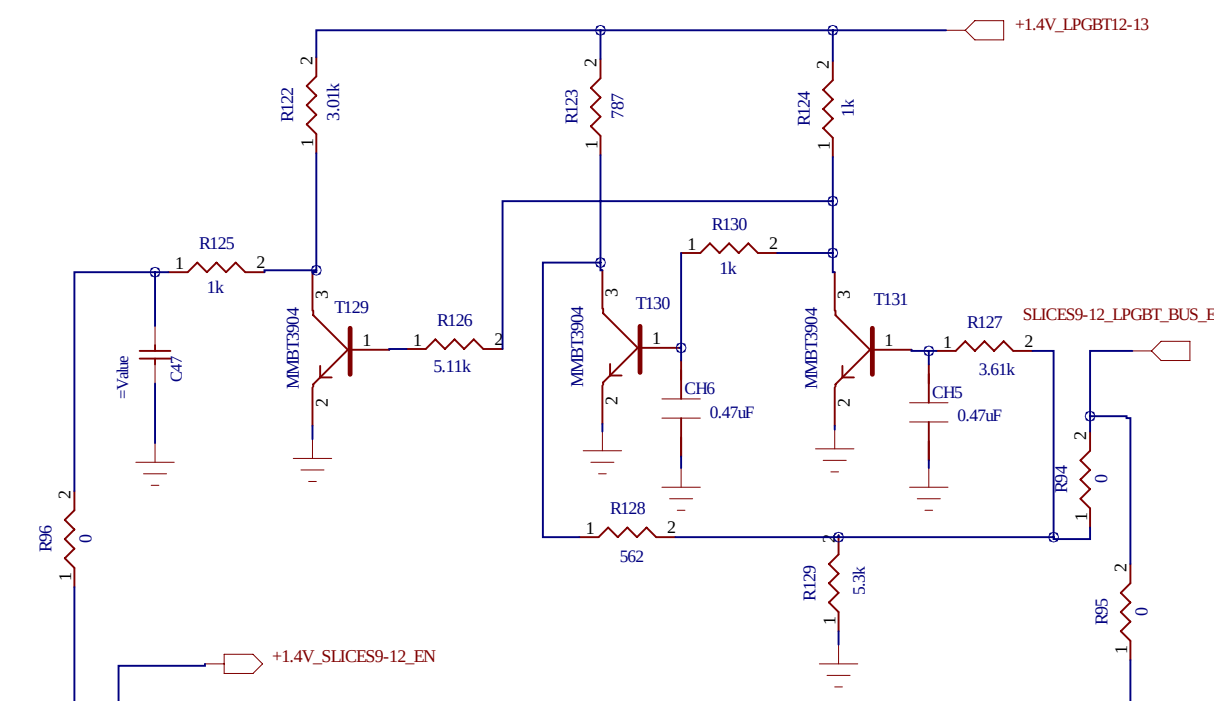
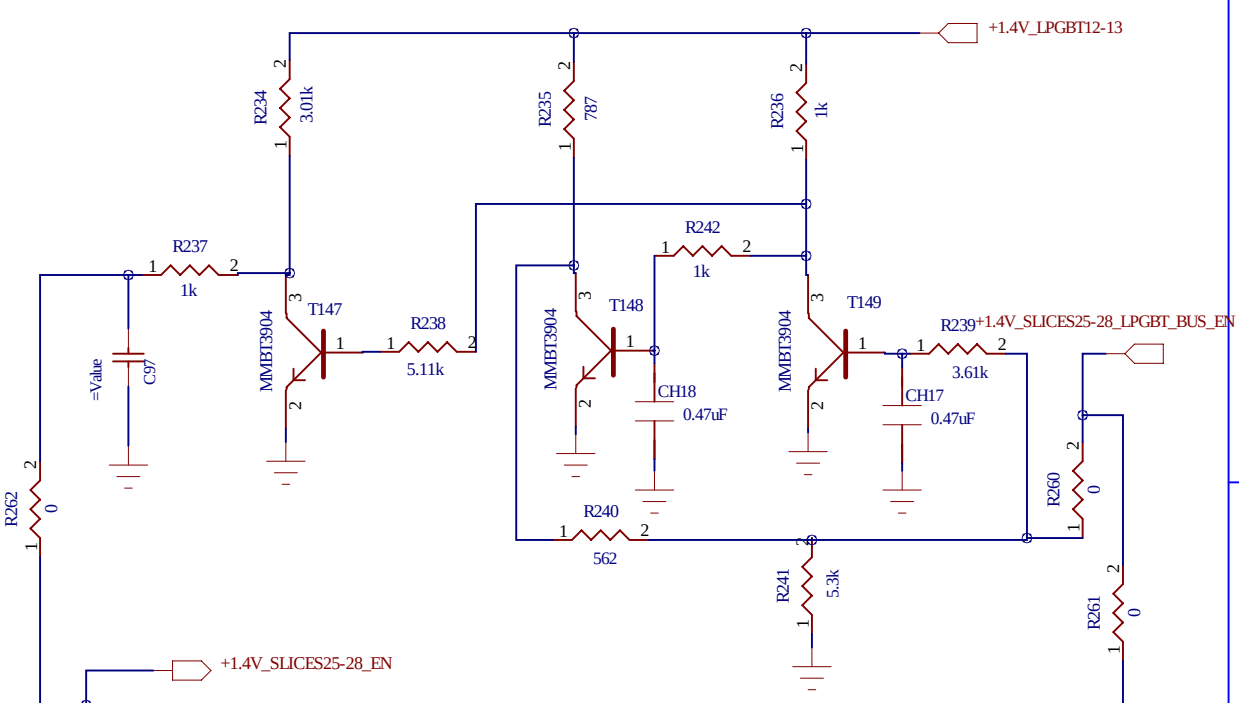
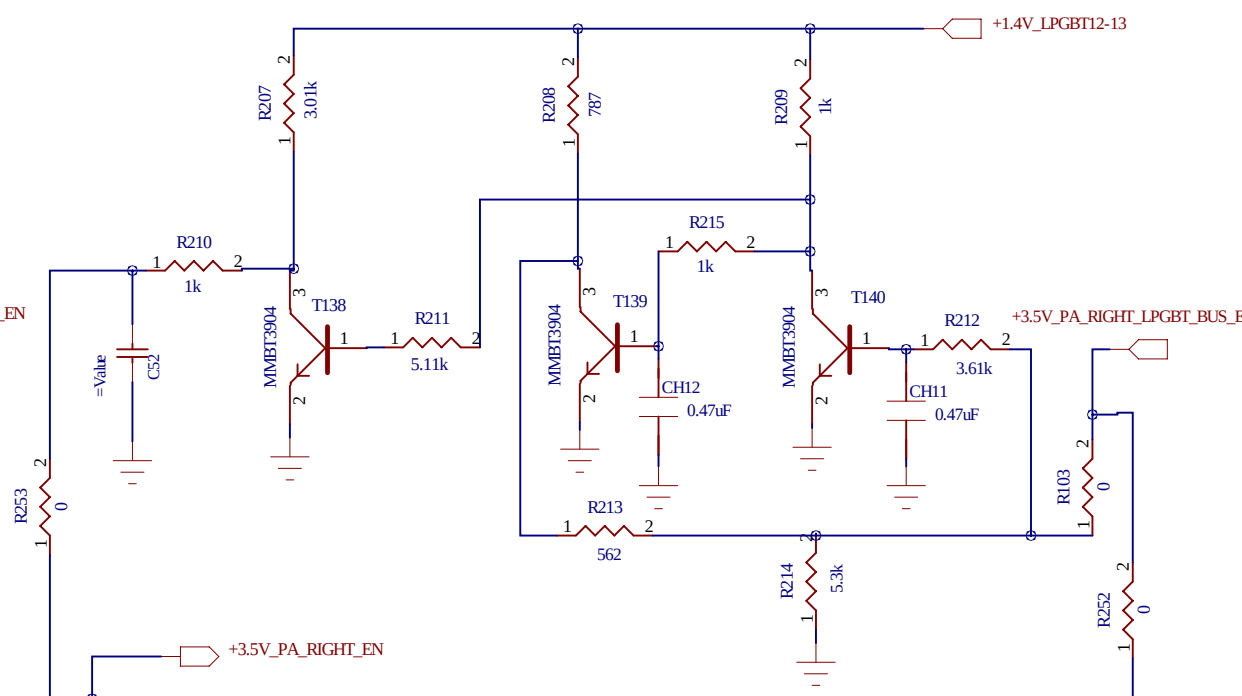
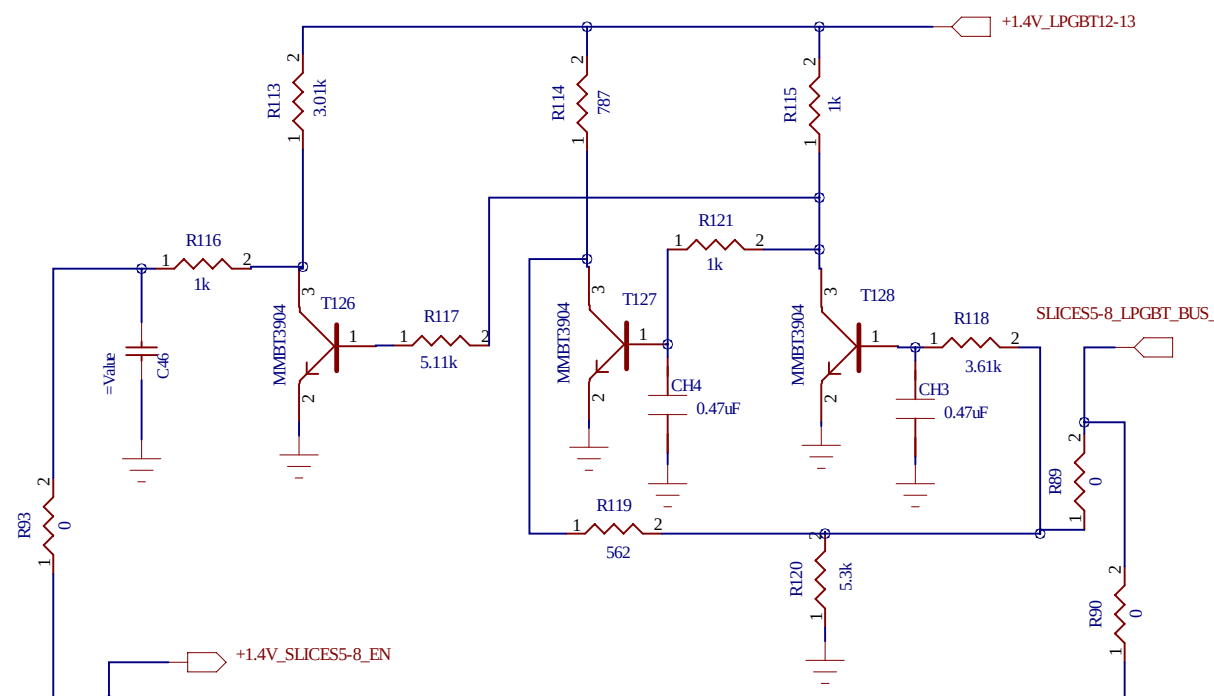
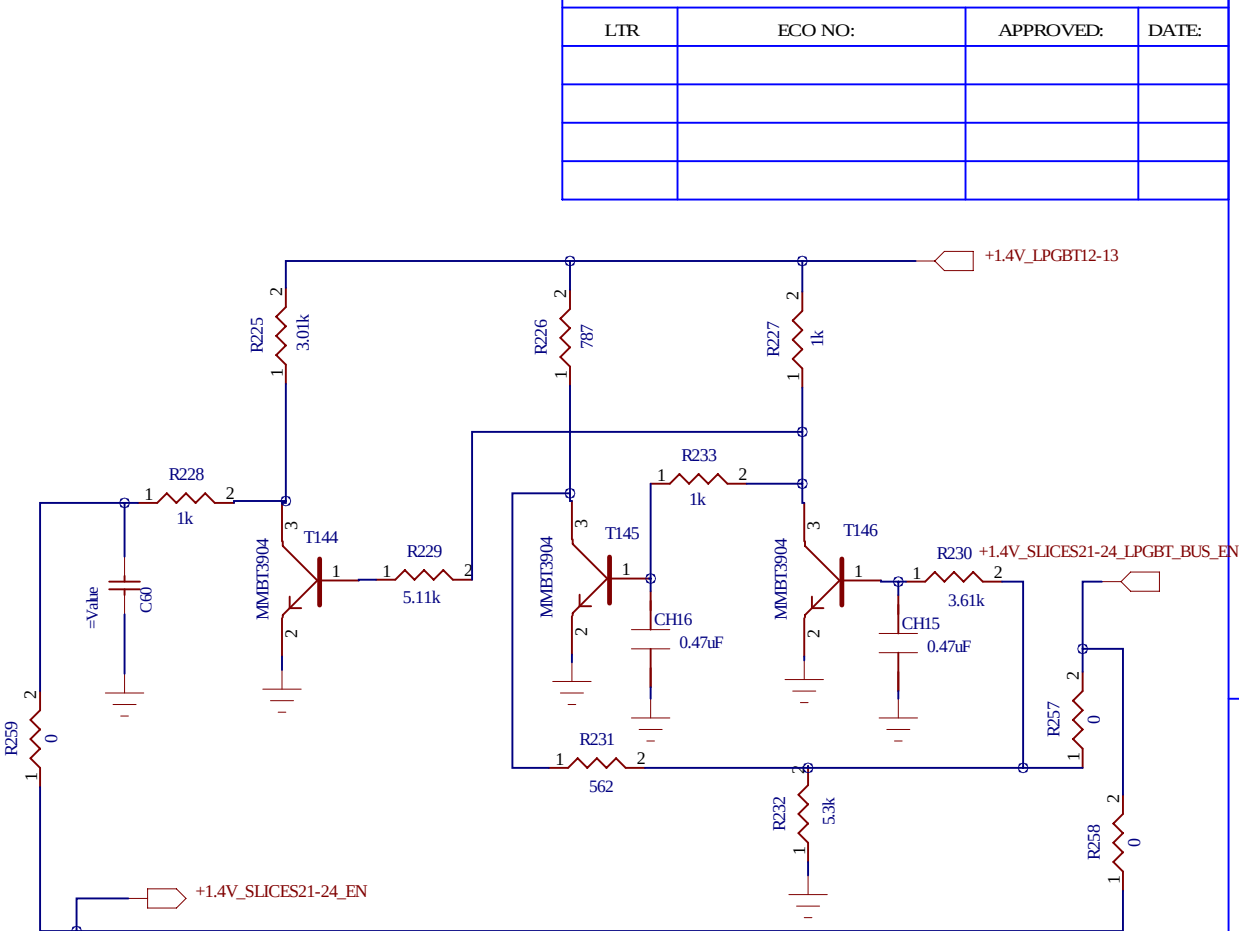
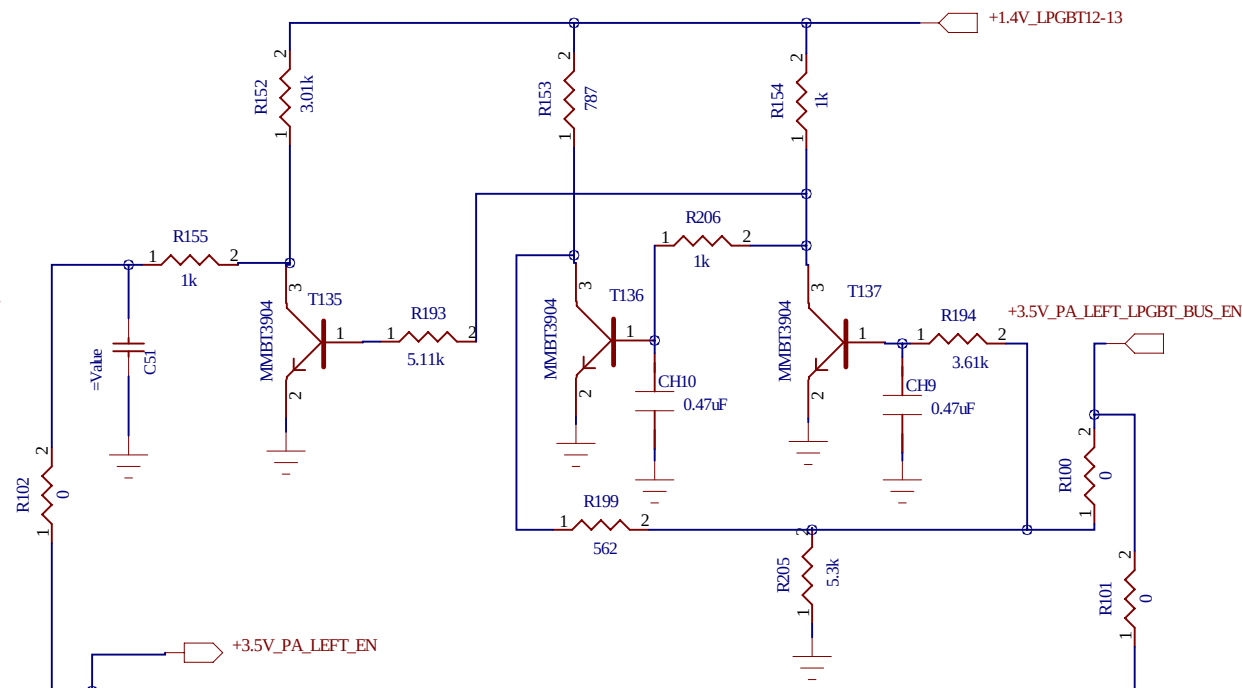
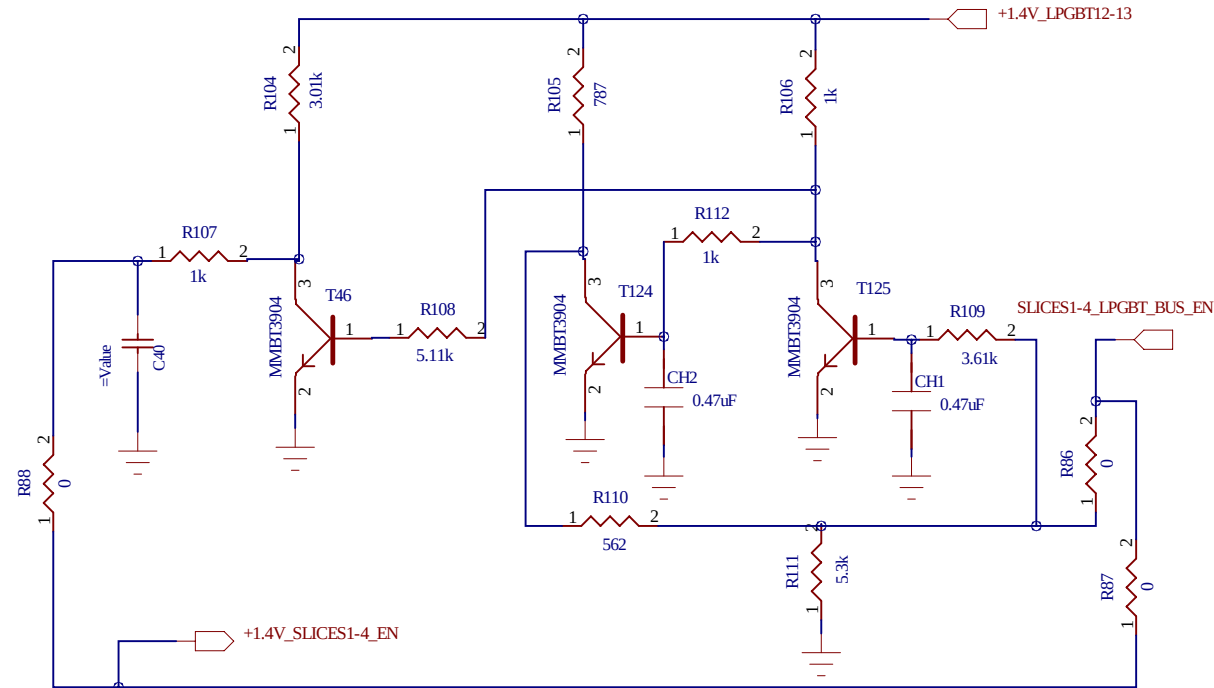
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TITLE: FEB2 prototype v2.0			
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FEB2 prototype v2.0

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