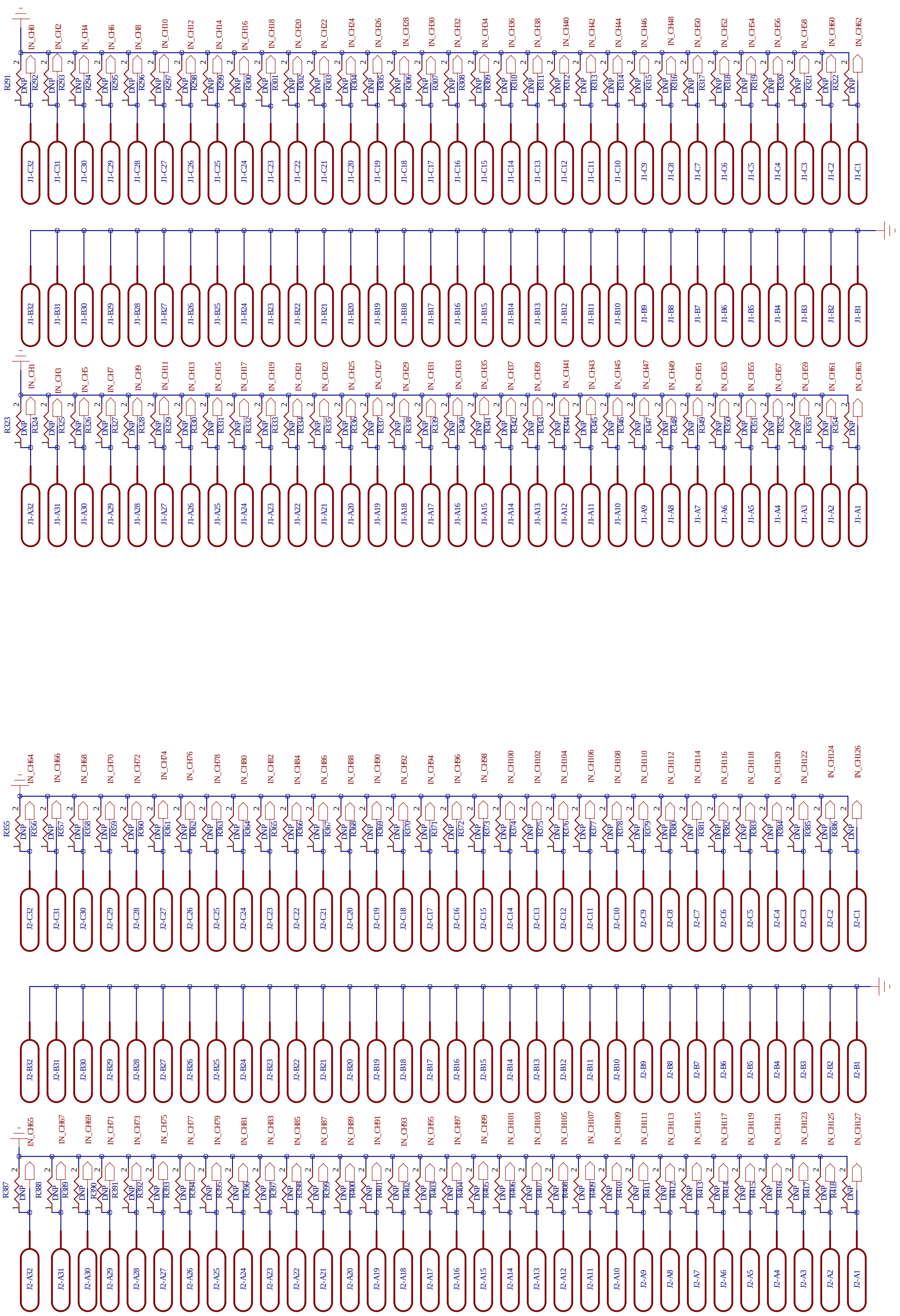


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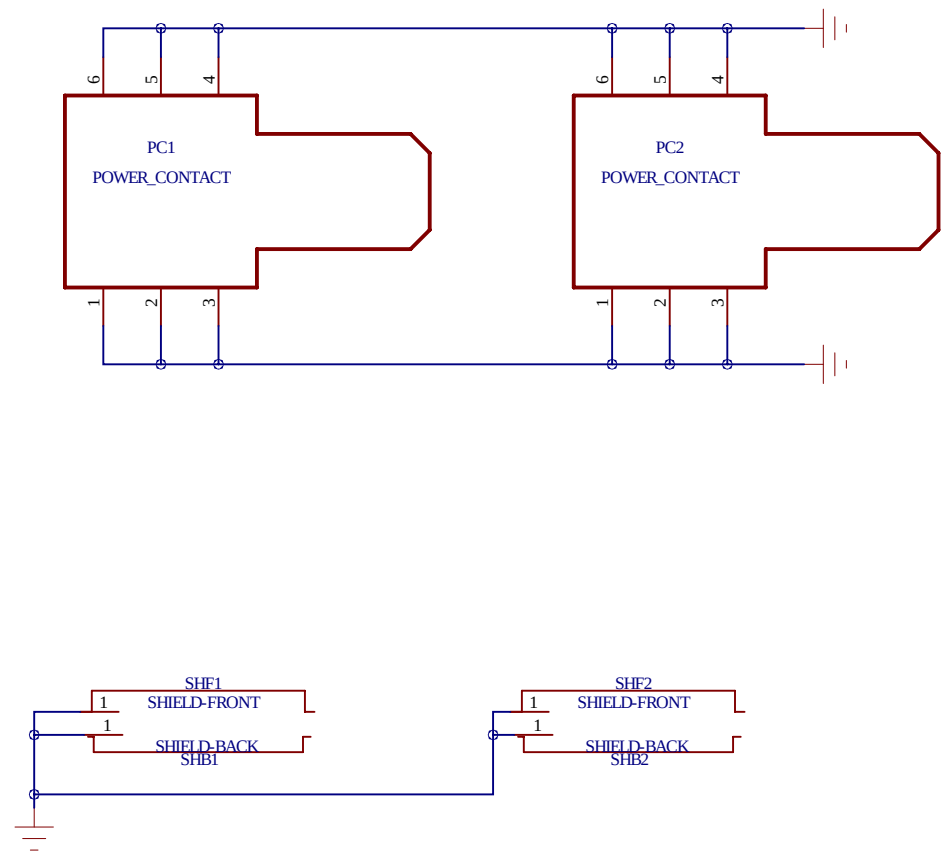
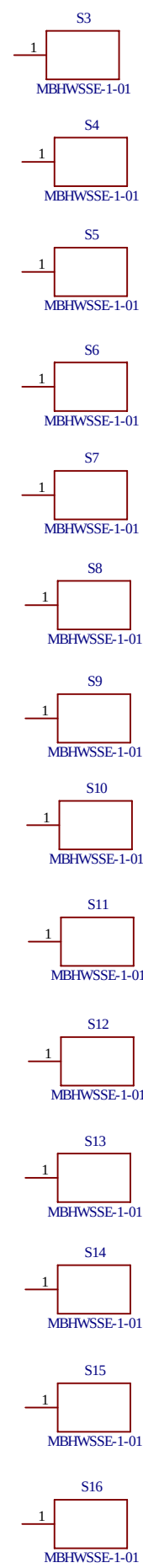
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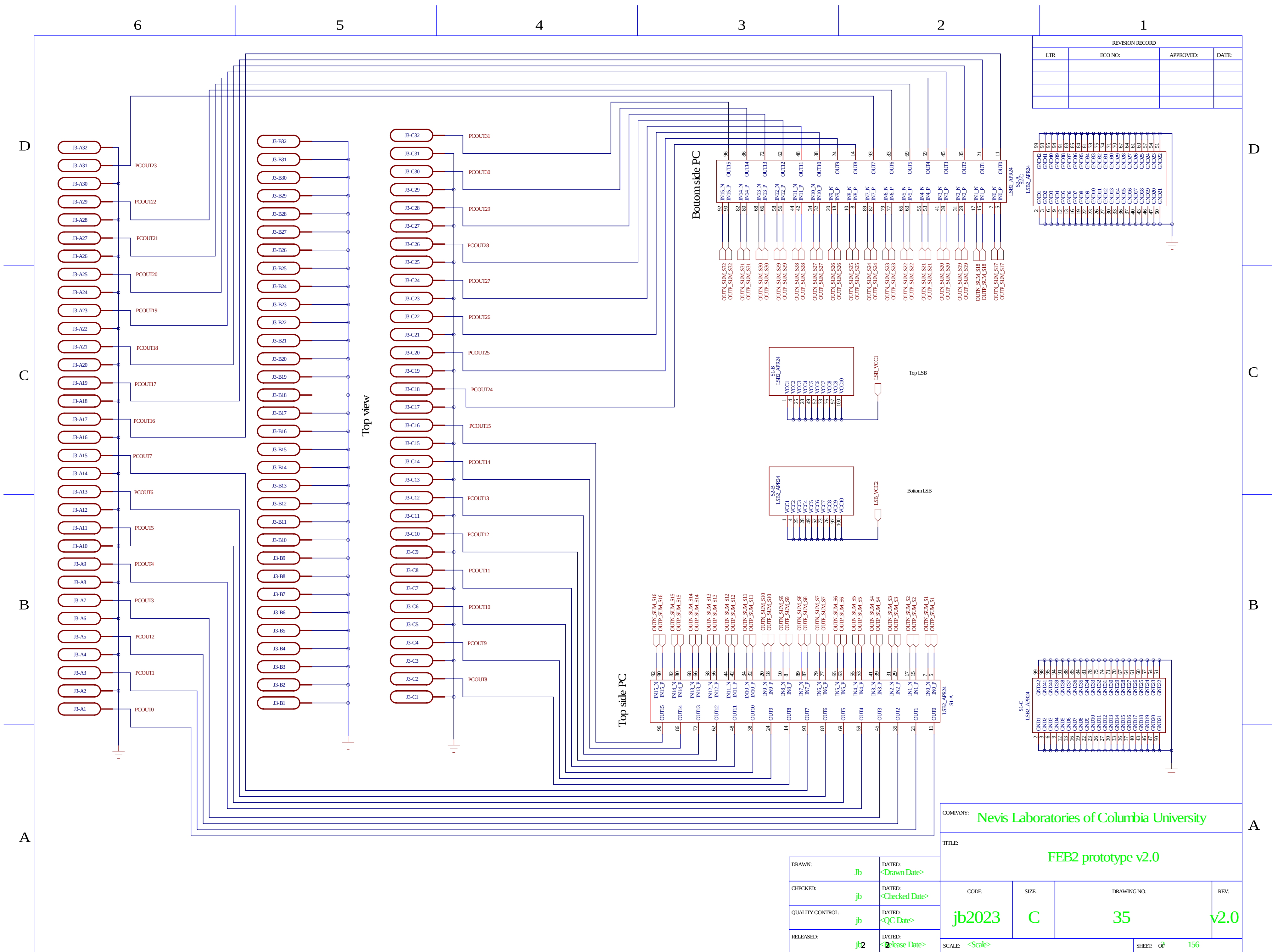
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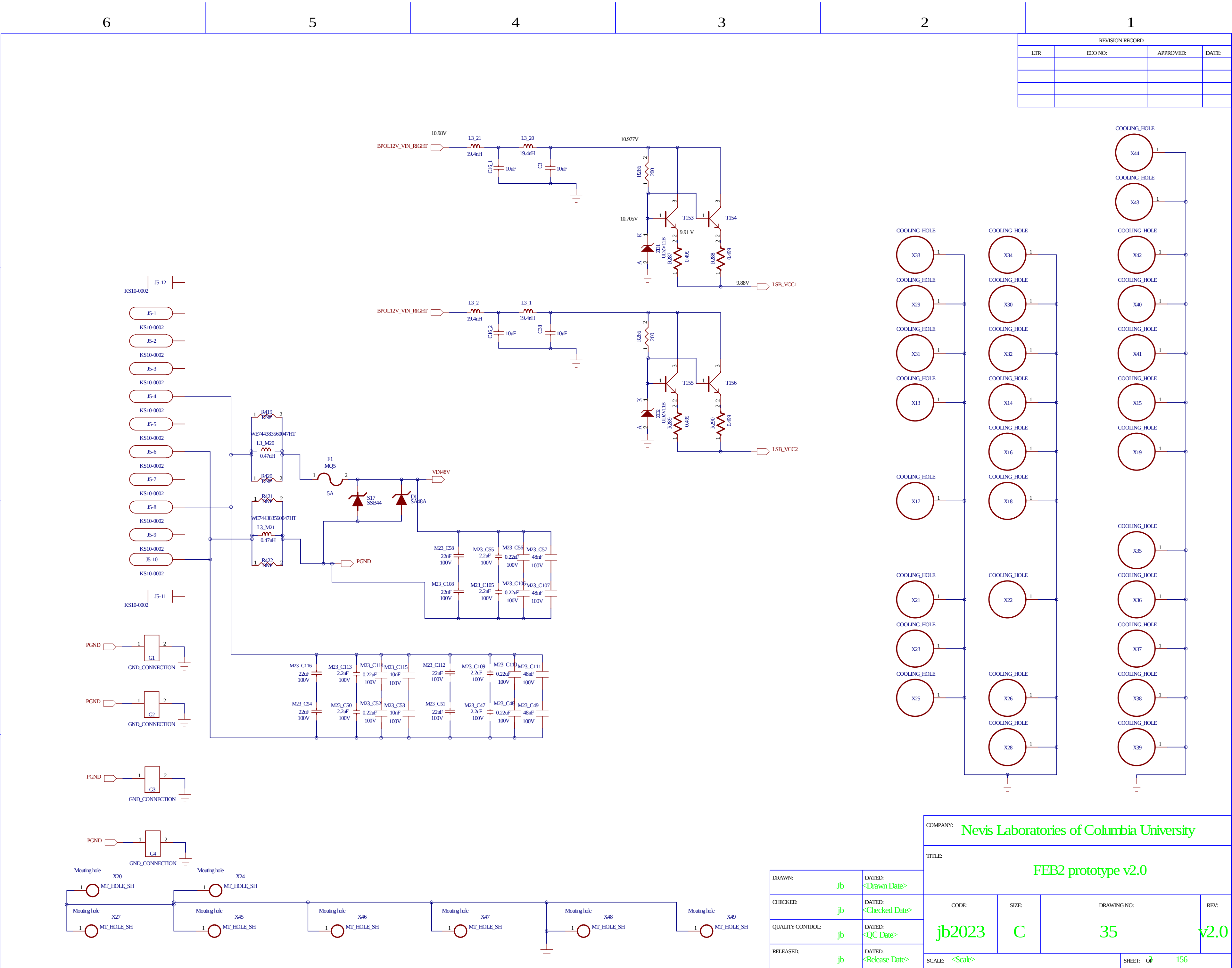
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TITLE: FEB2 prototype v2.0			
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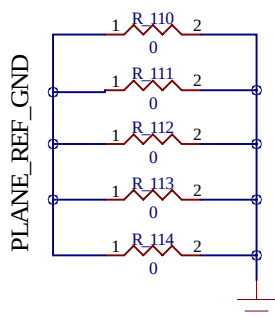
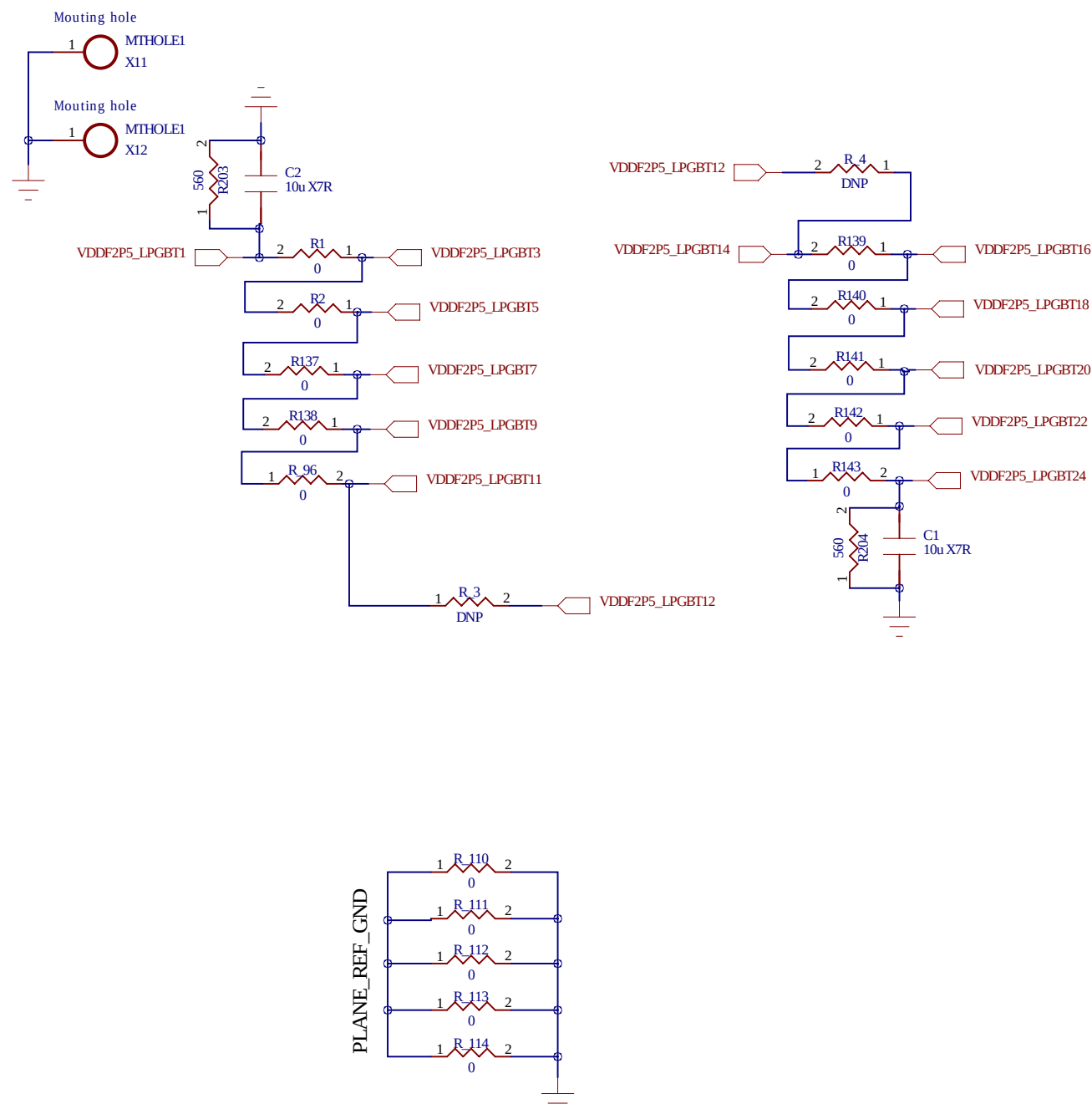
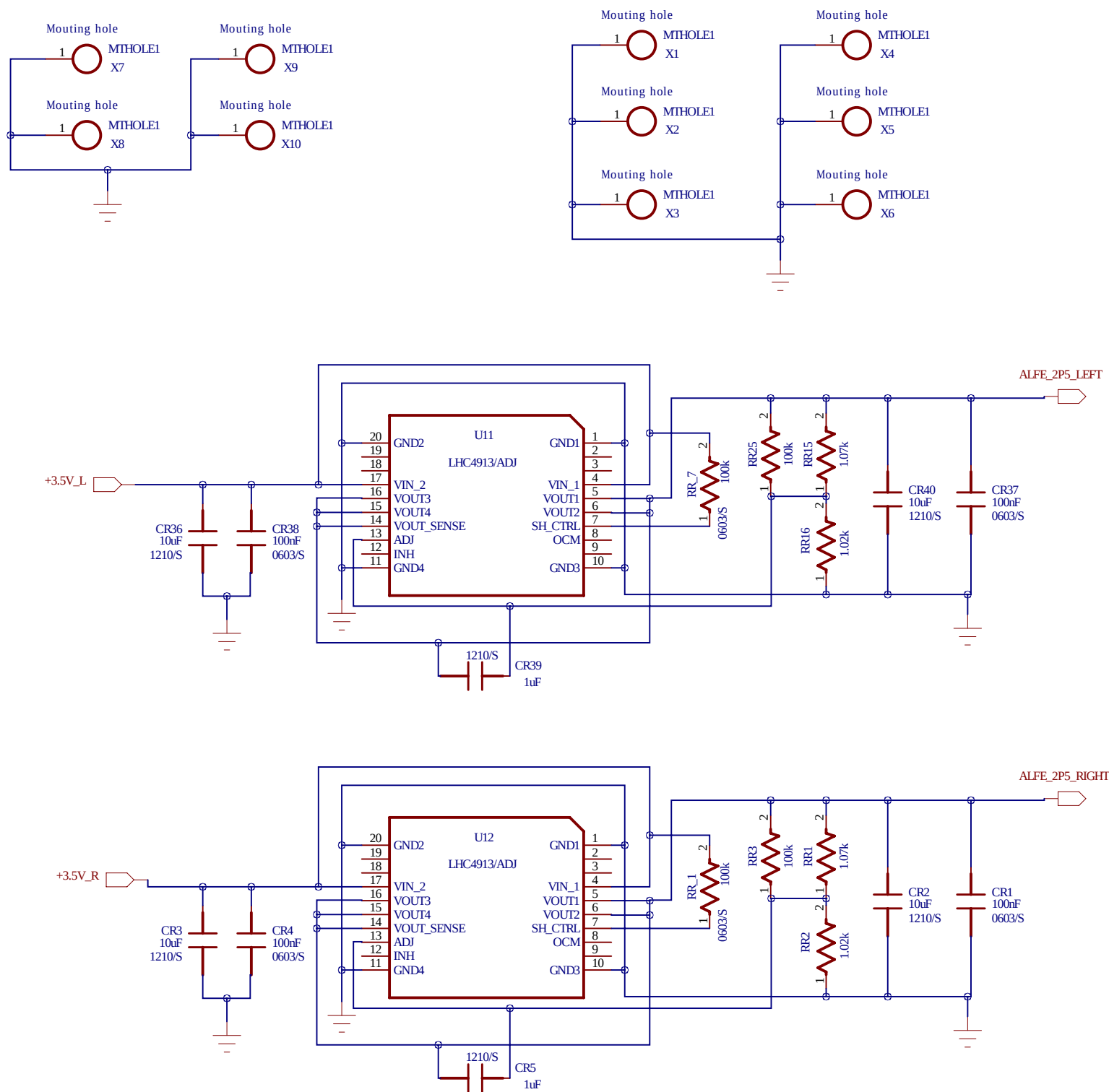
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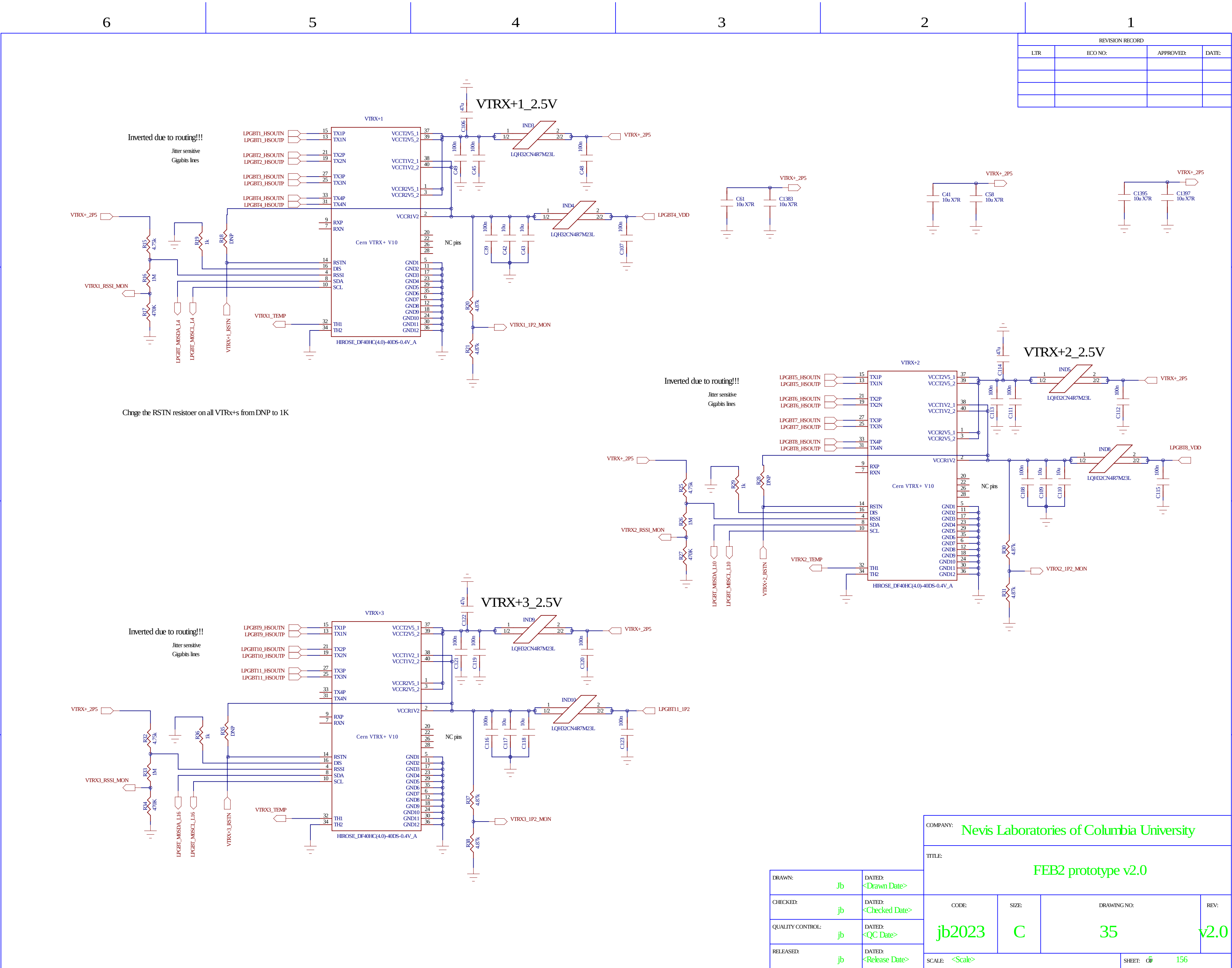
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Mounting holes for the panel



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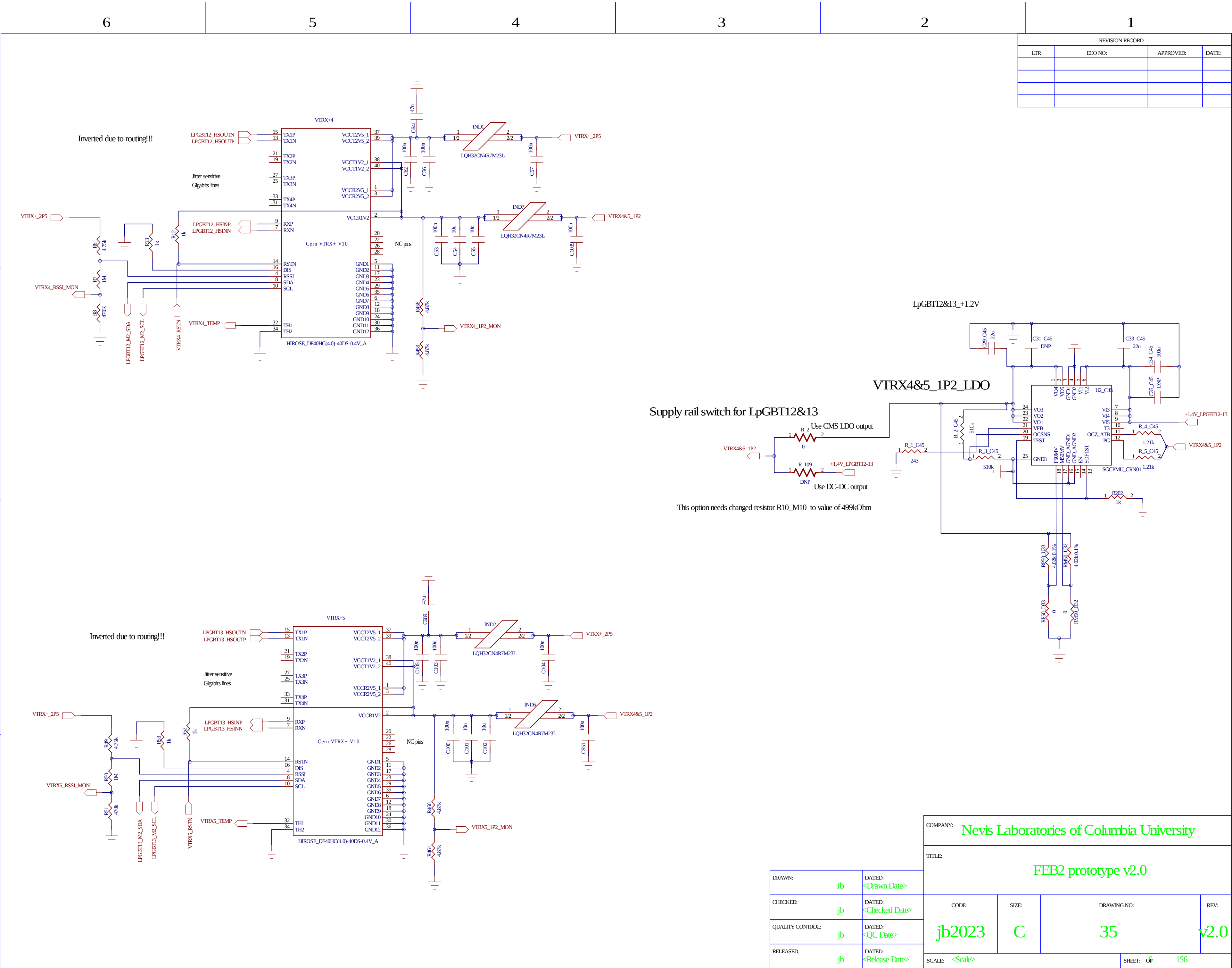
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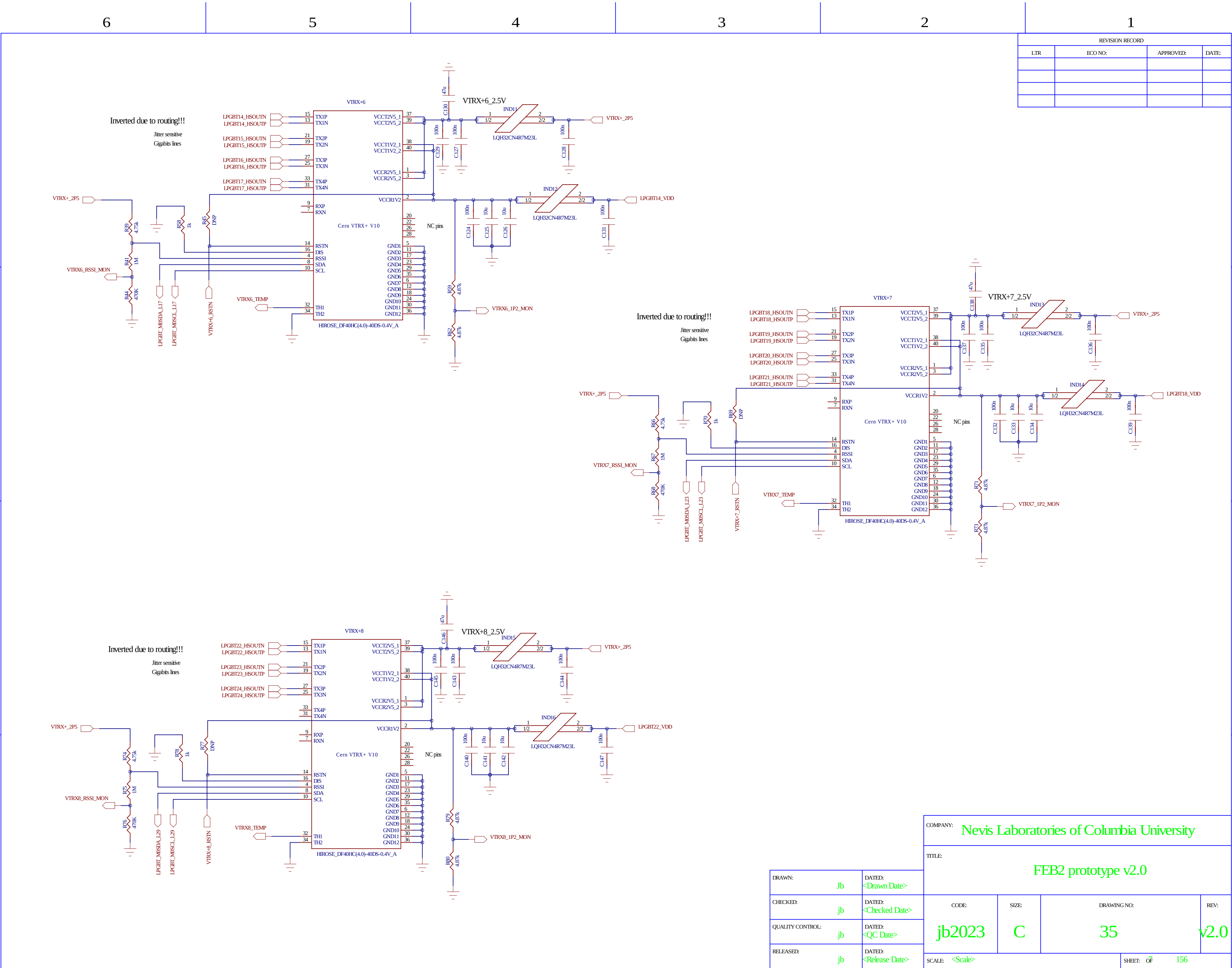
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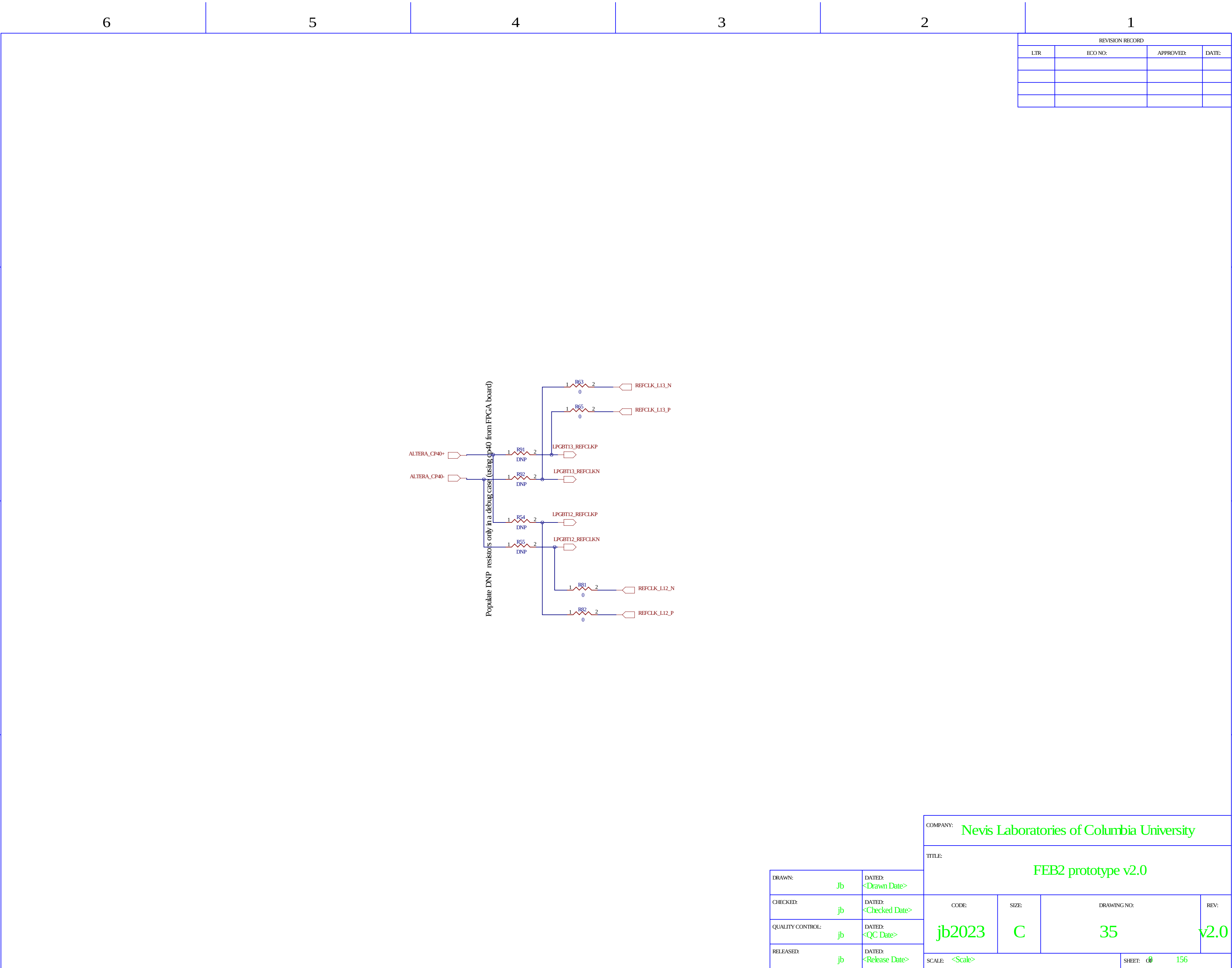
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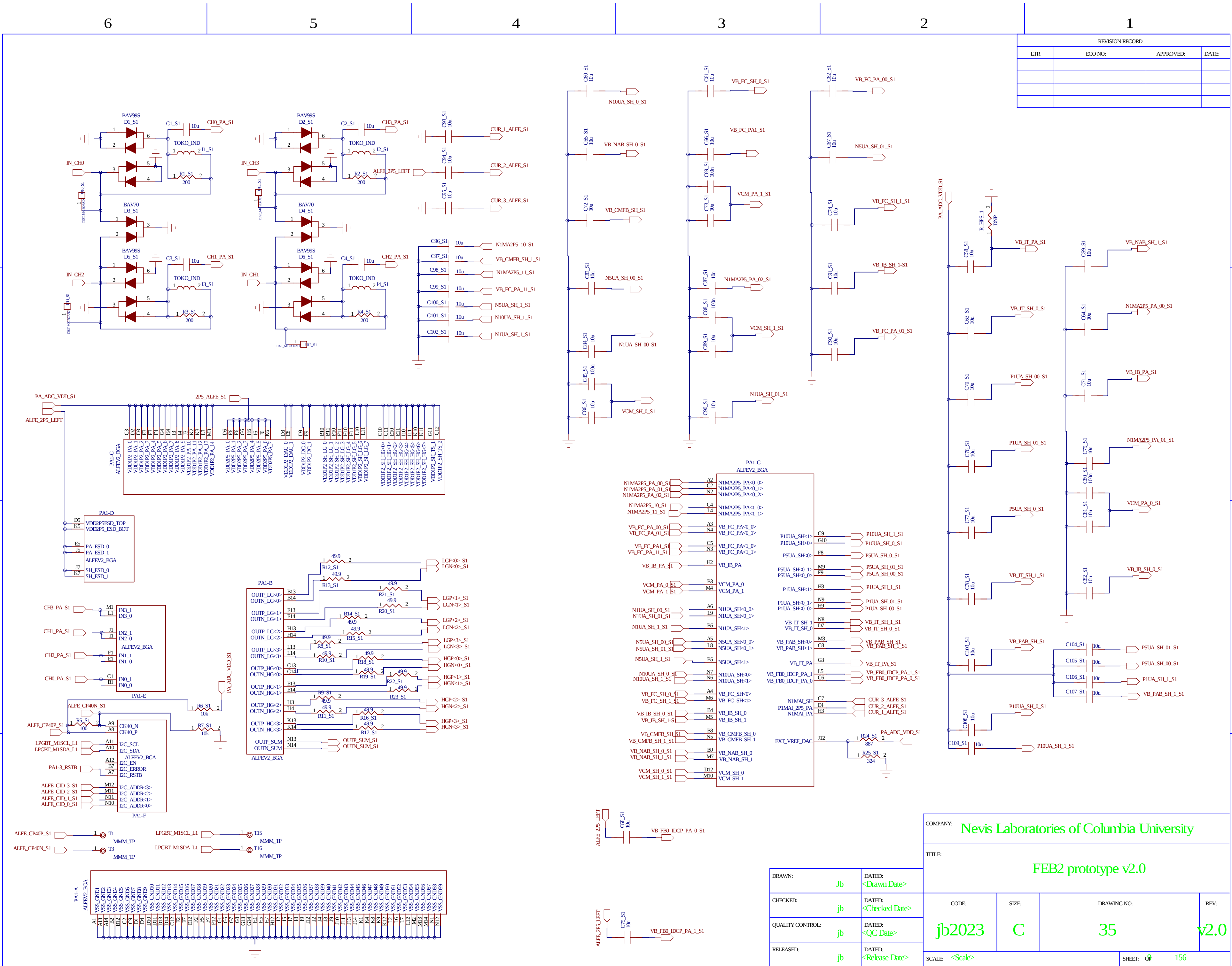
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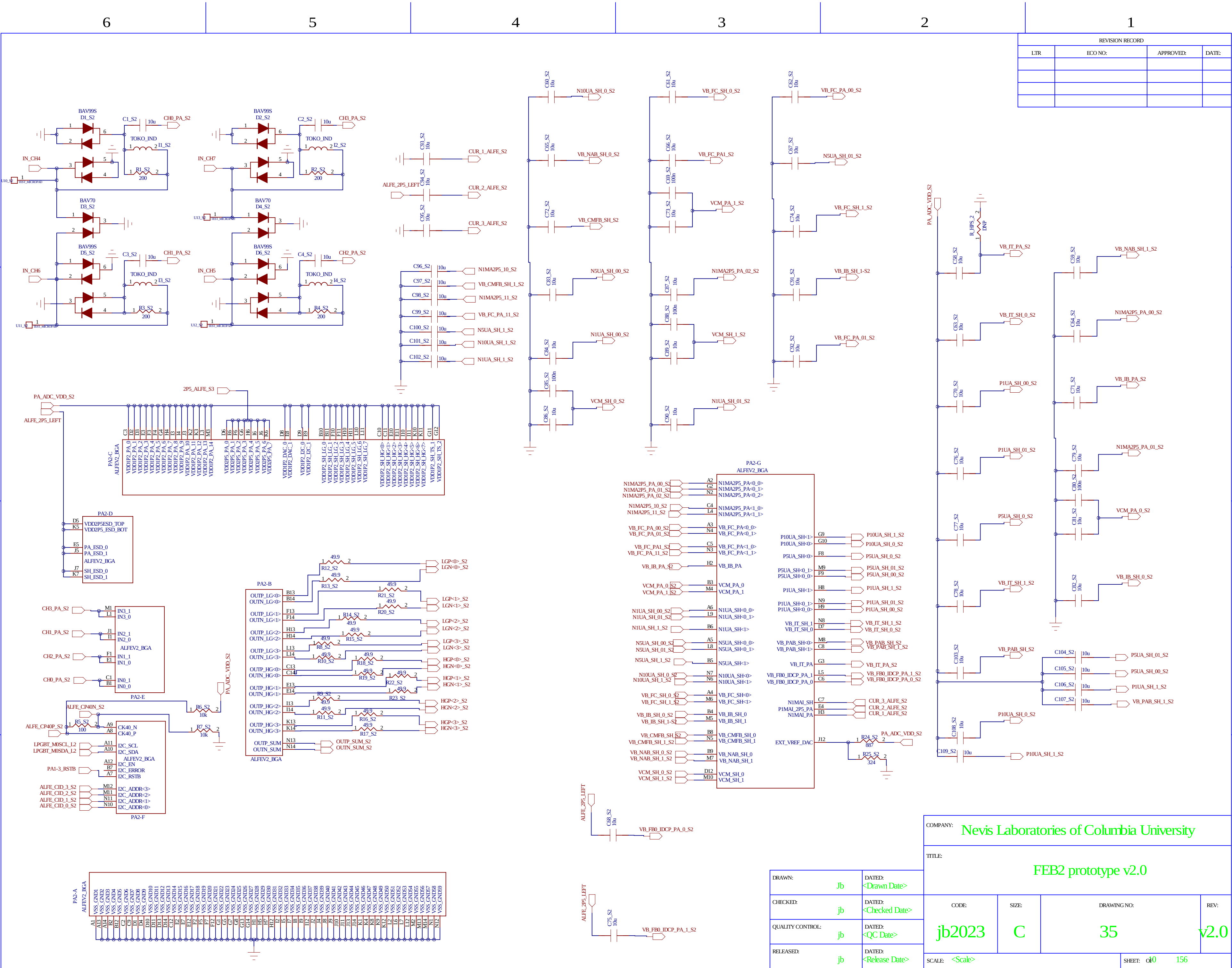


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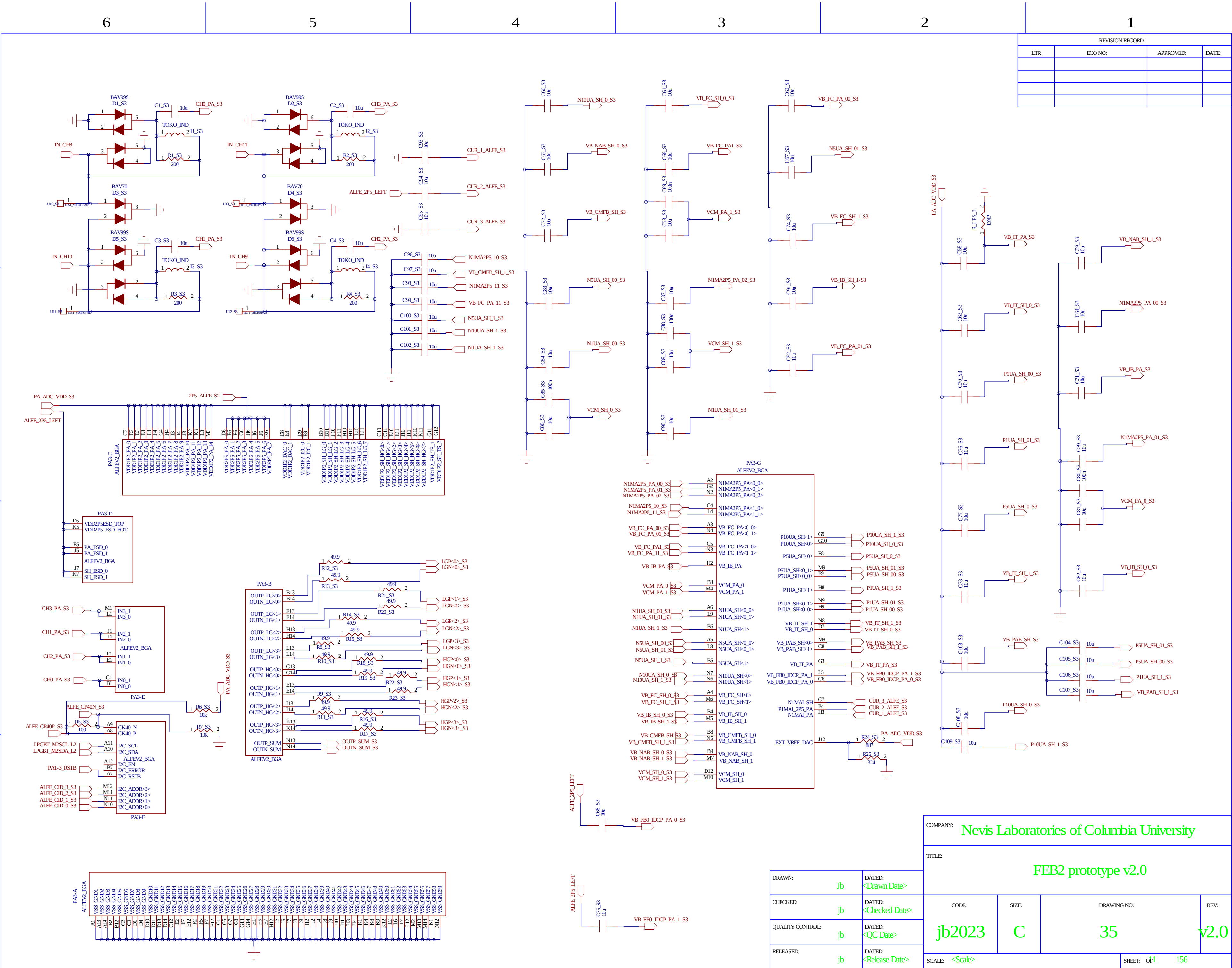
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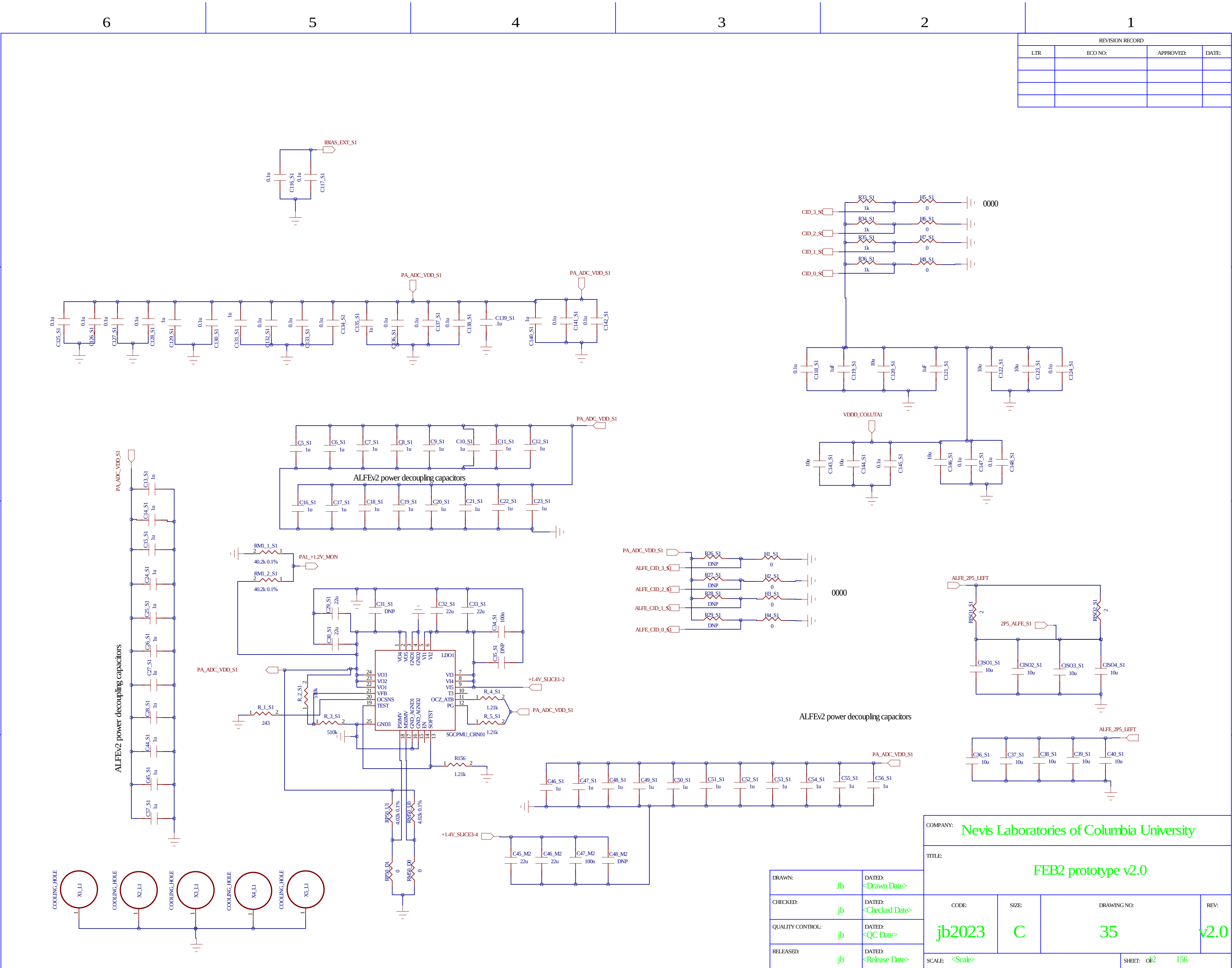
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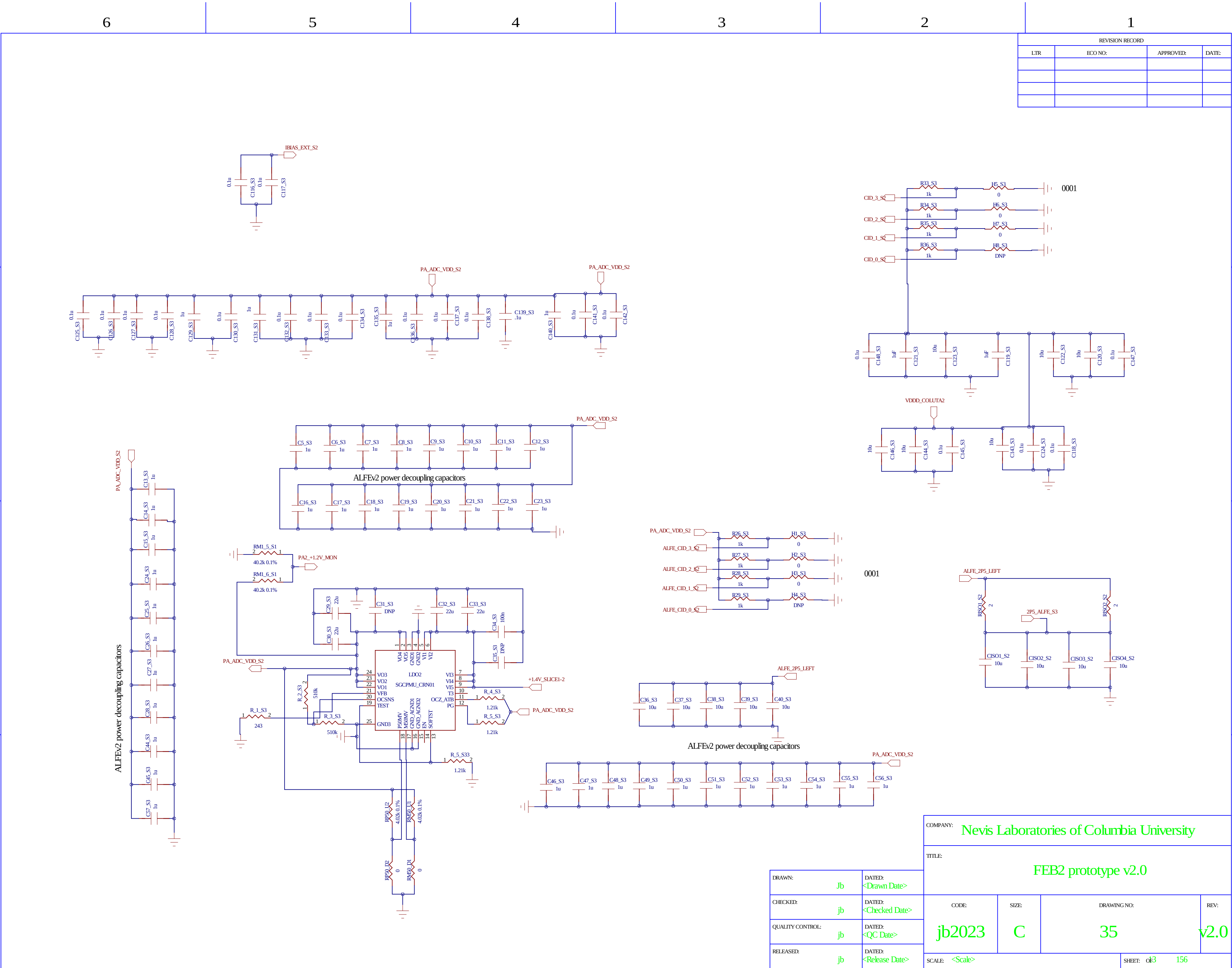
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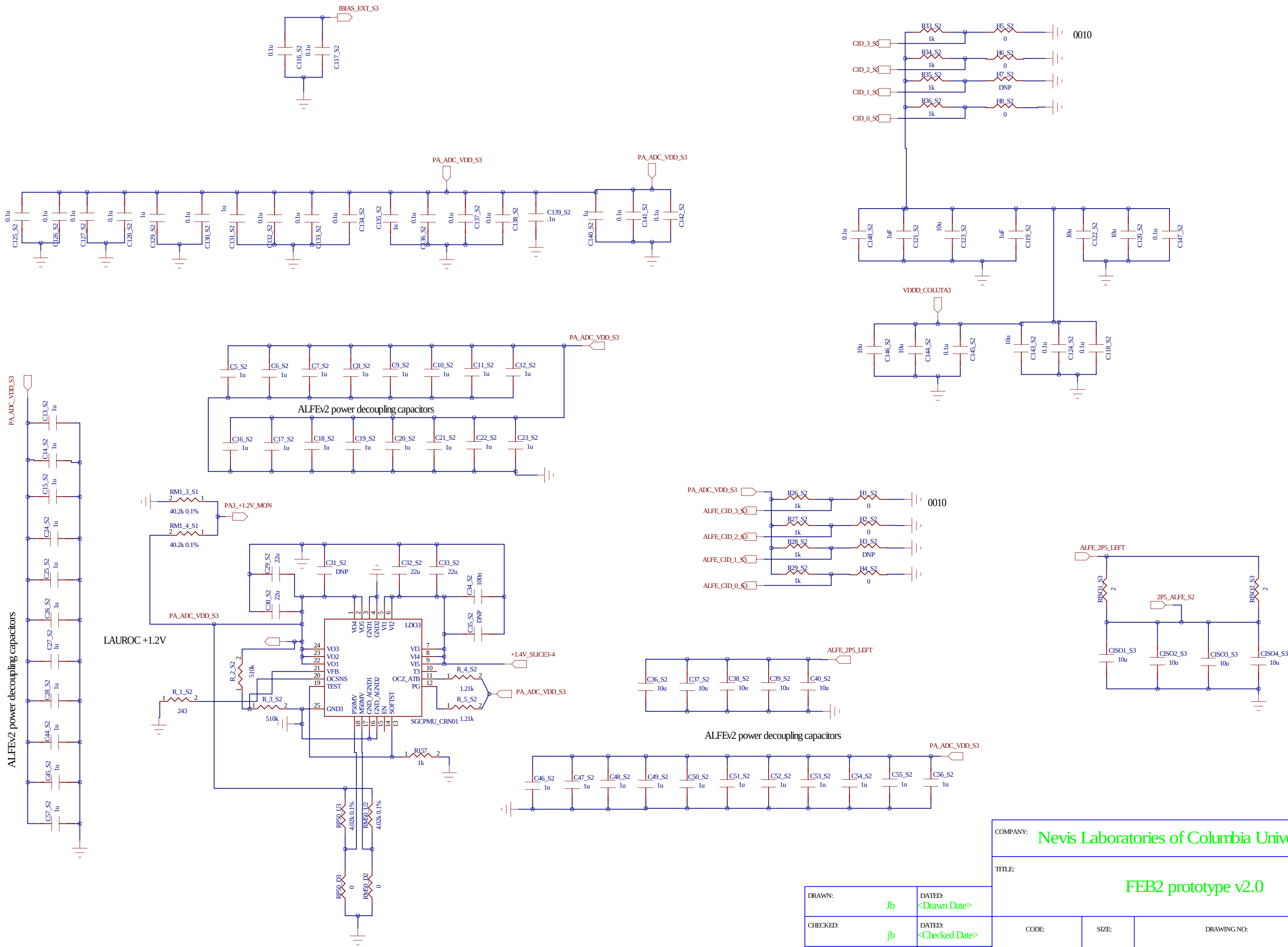
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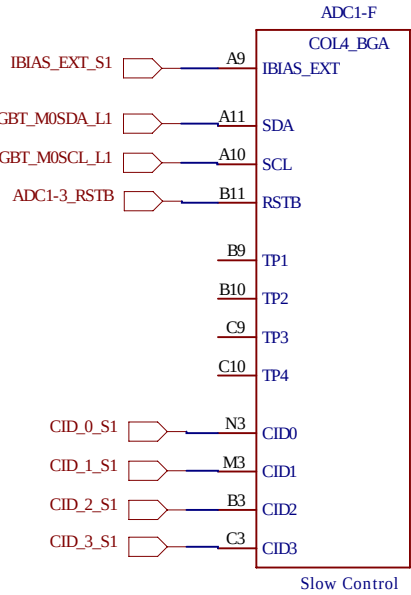
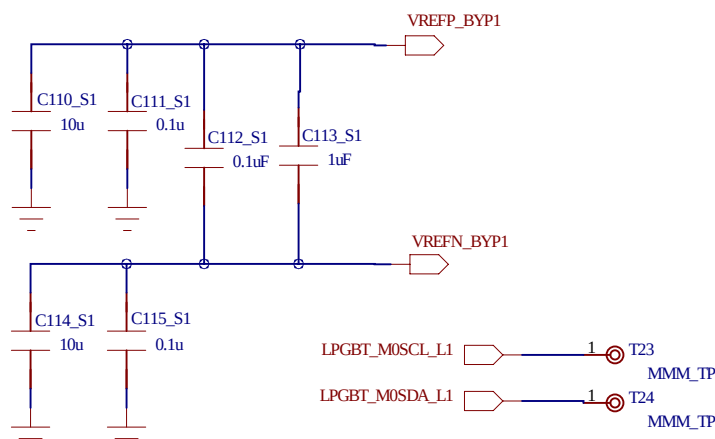
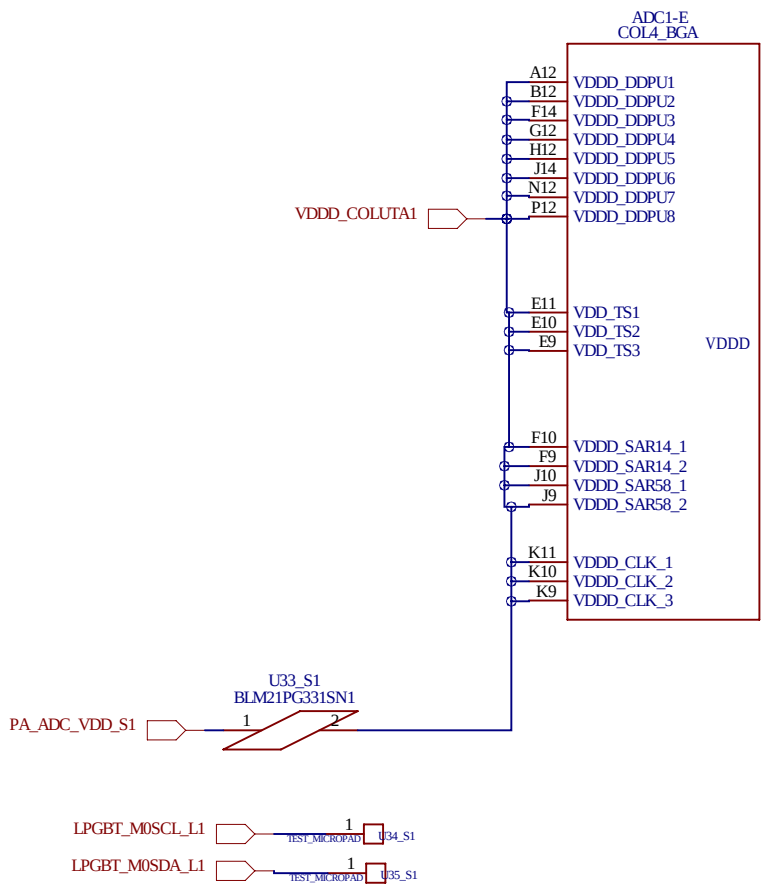
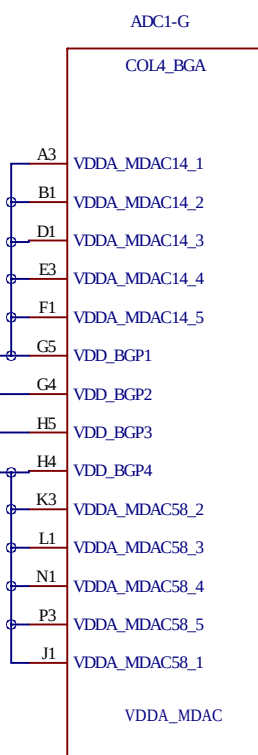
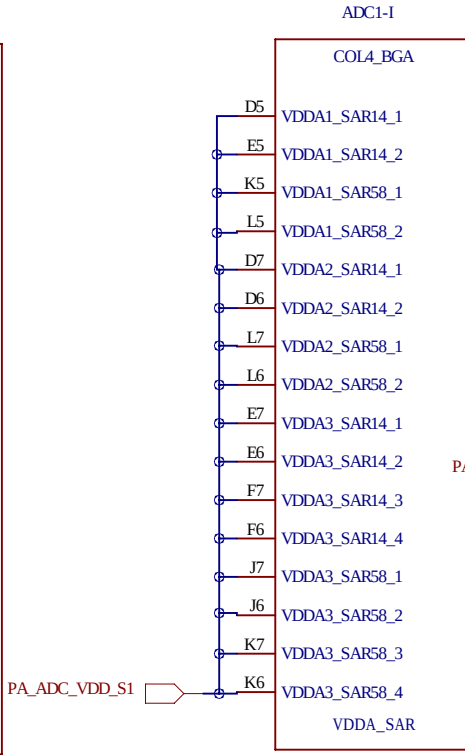
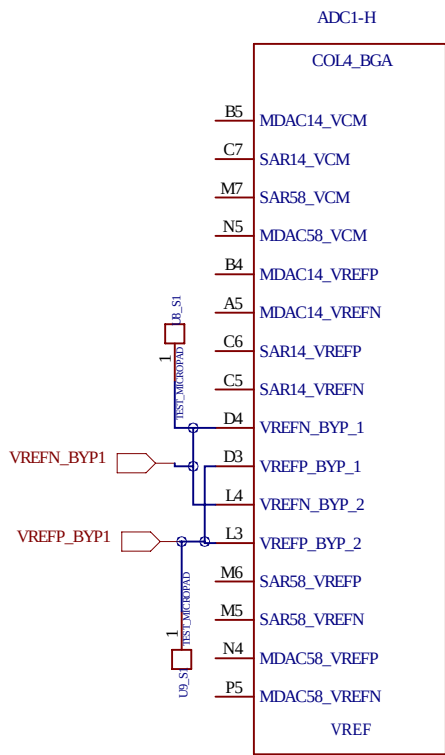
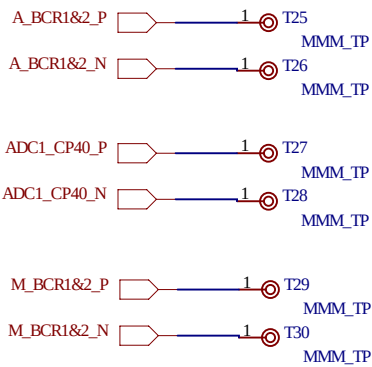
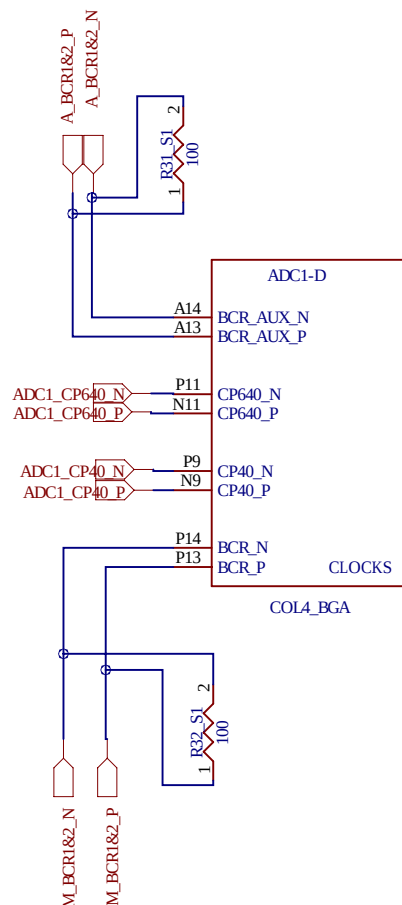
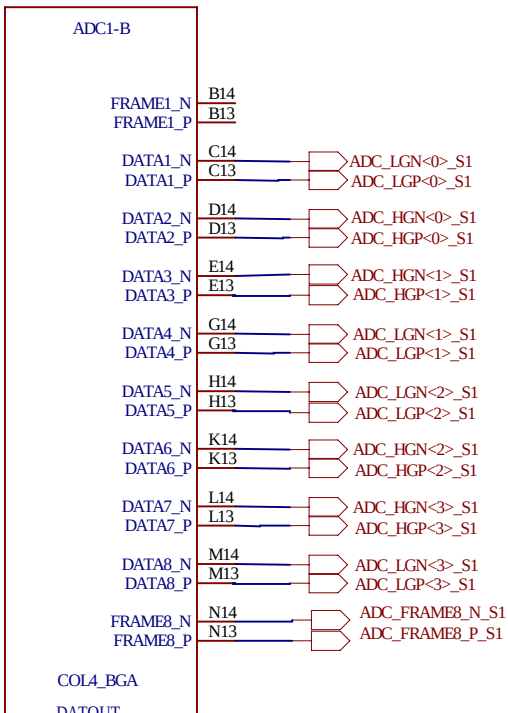
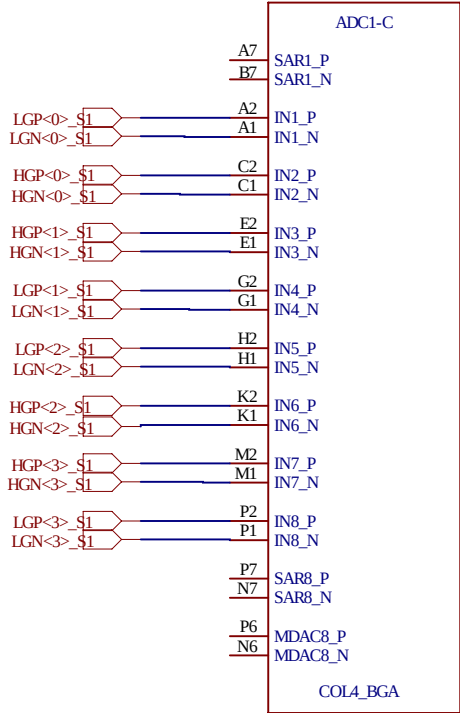
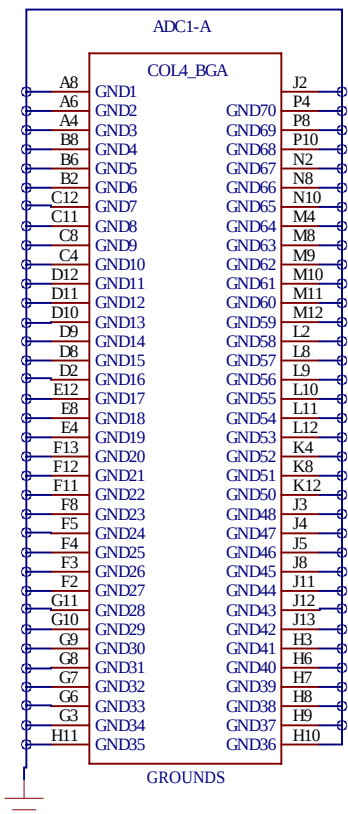
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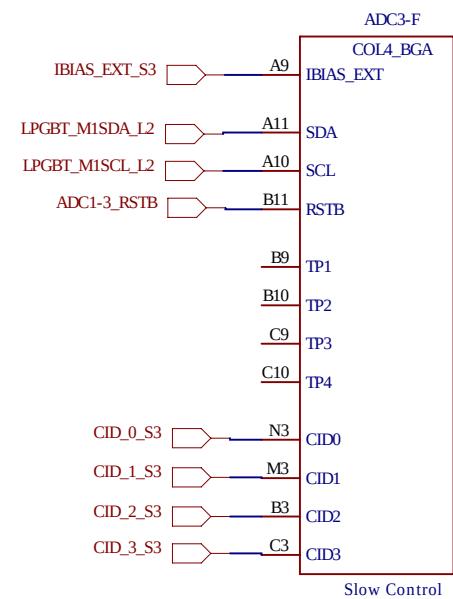
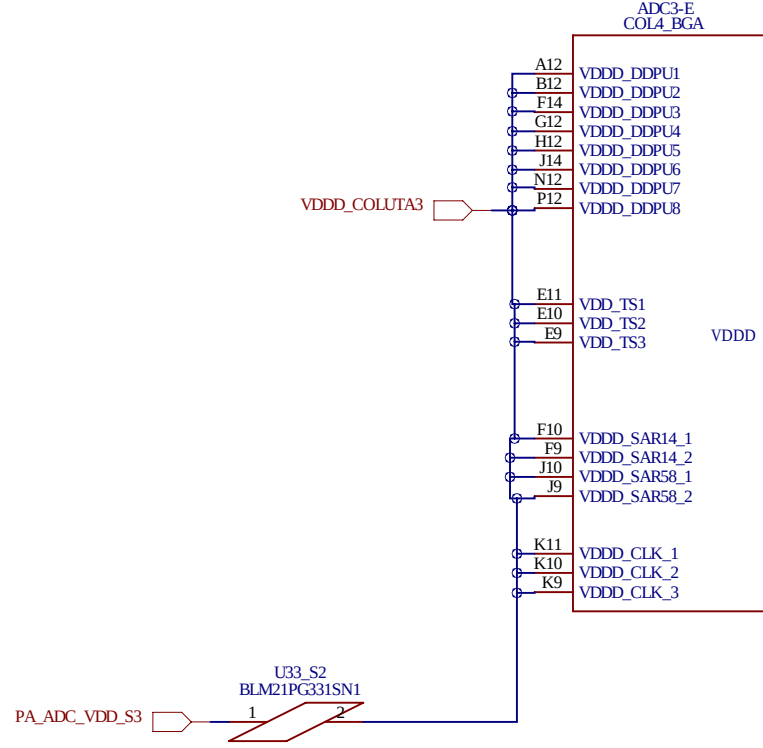
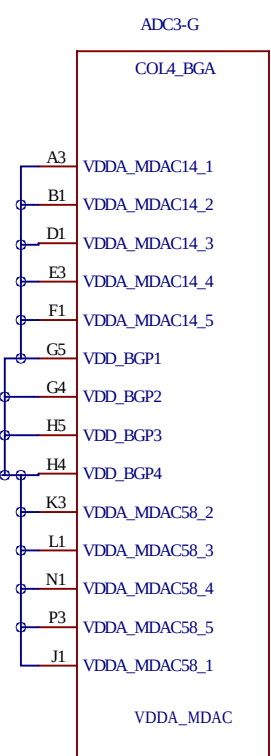
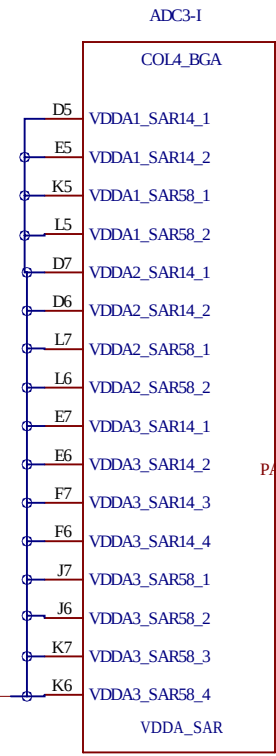
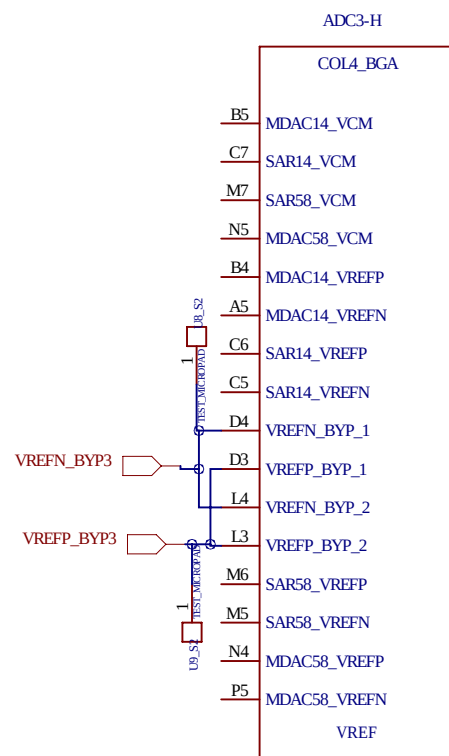
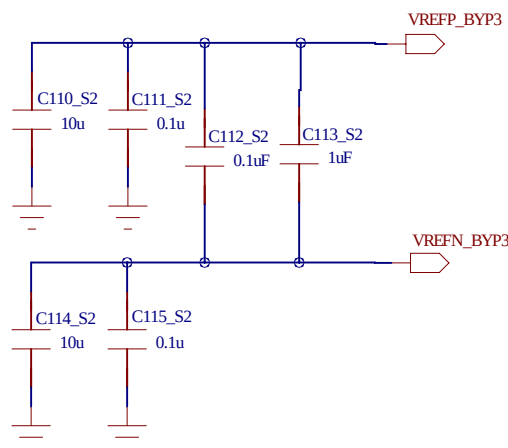
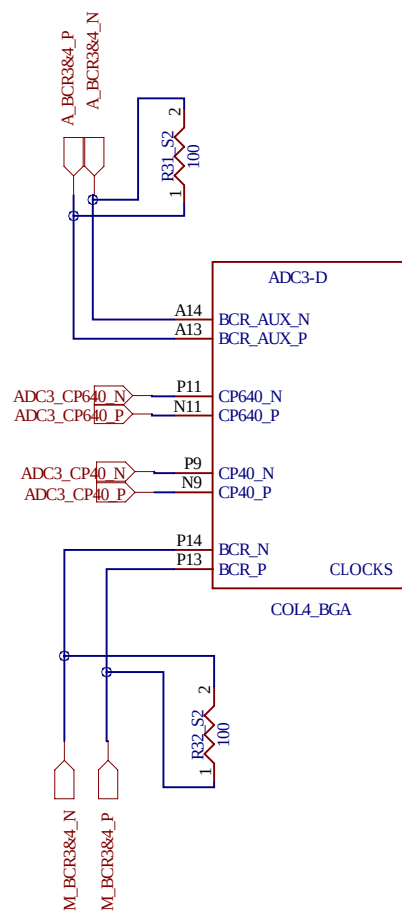
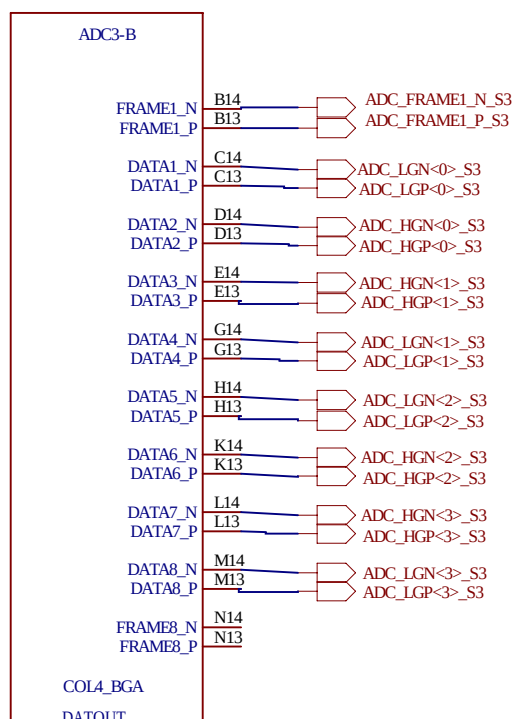
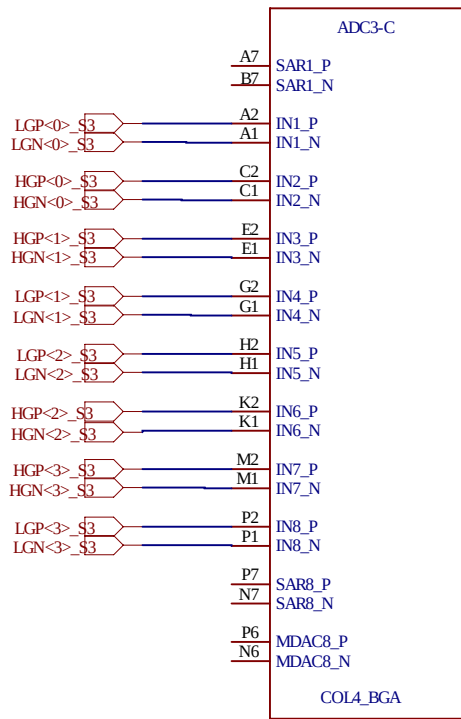
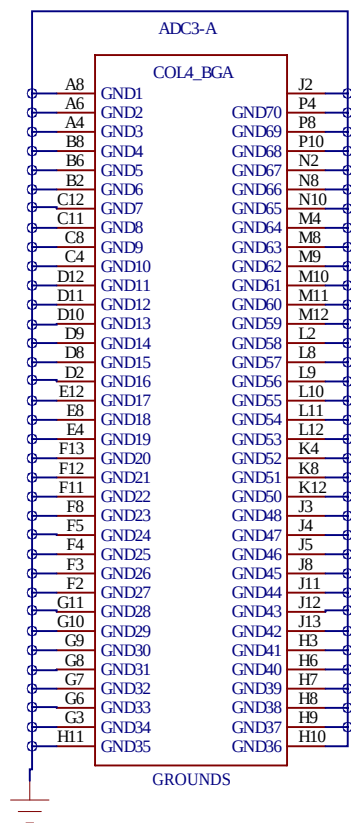
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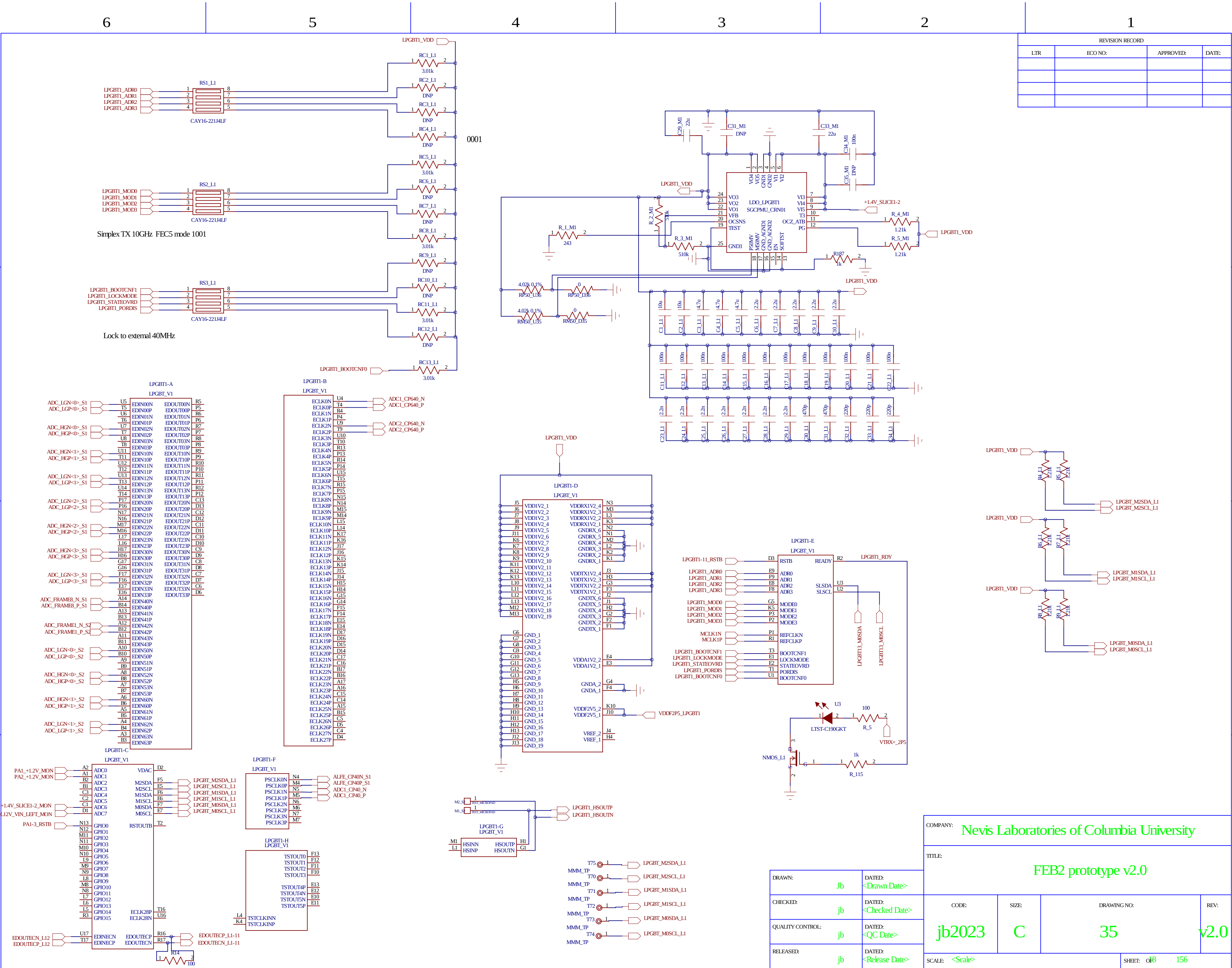
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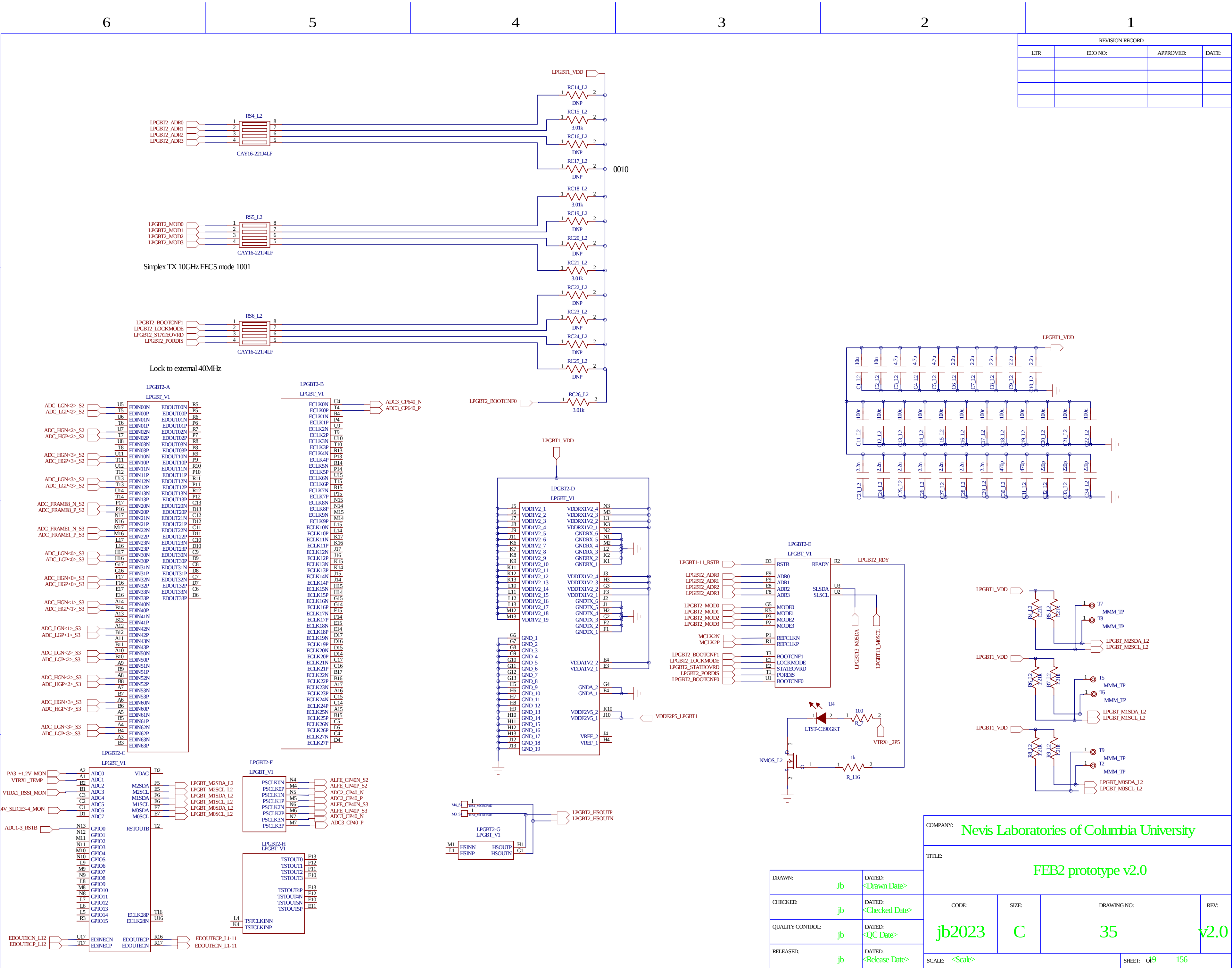
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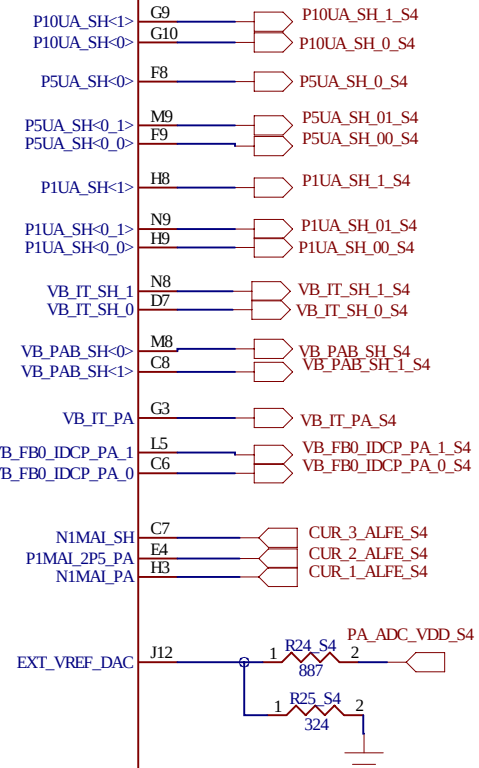
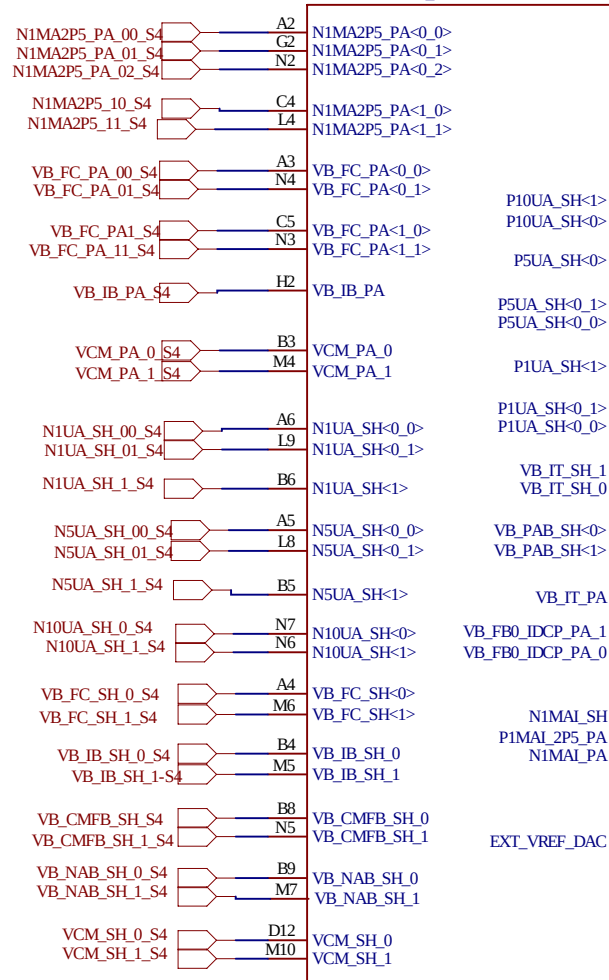
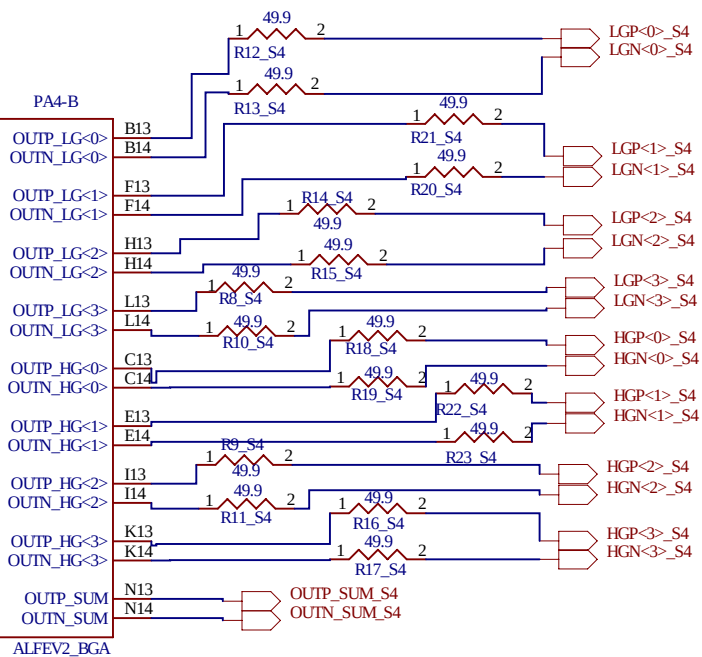
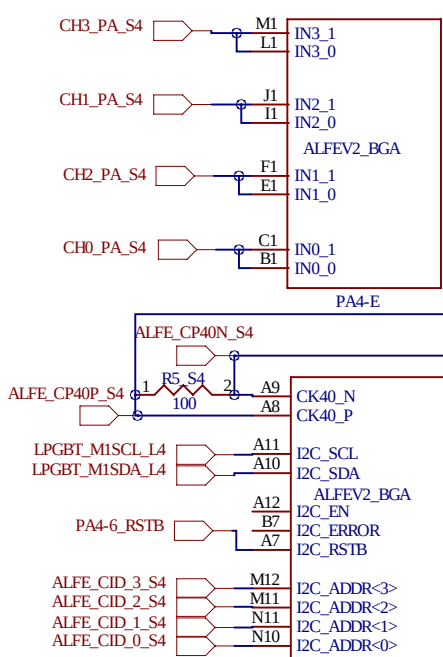
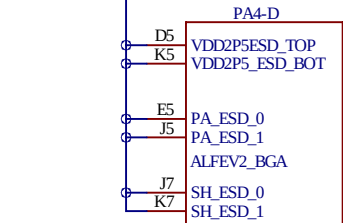
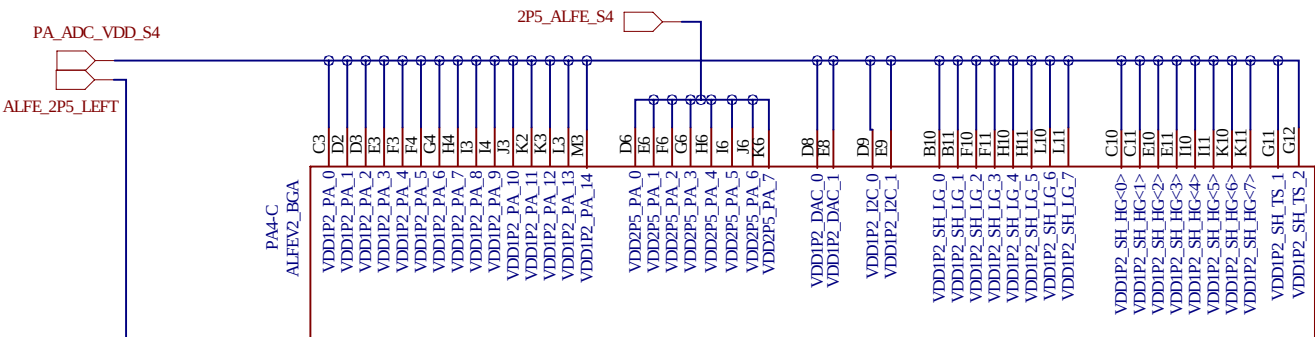
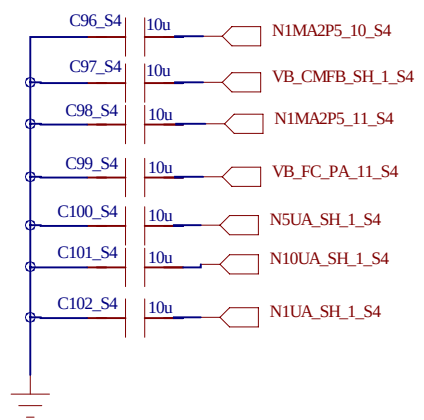
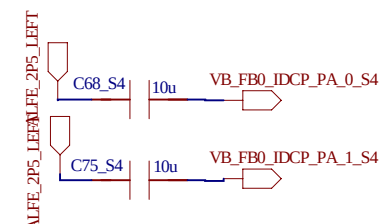
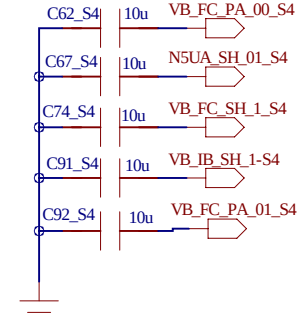
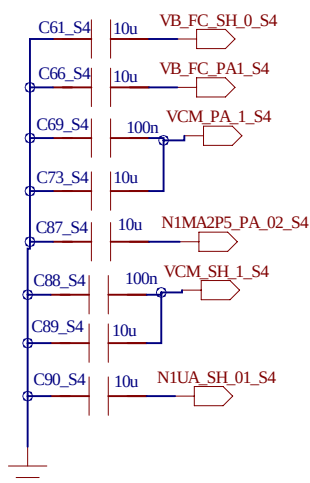
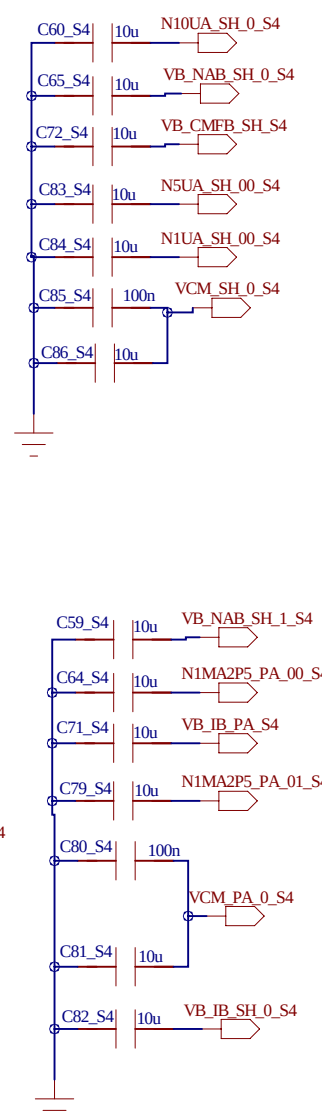
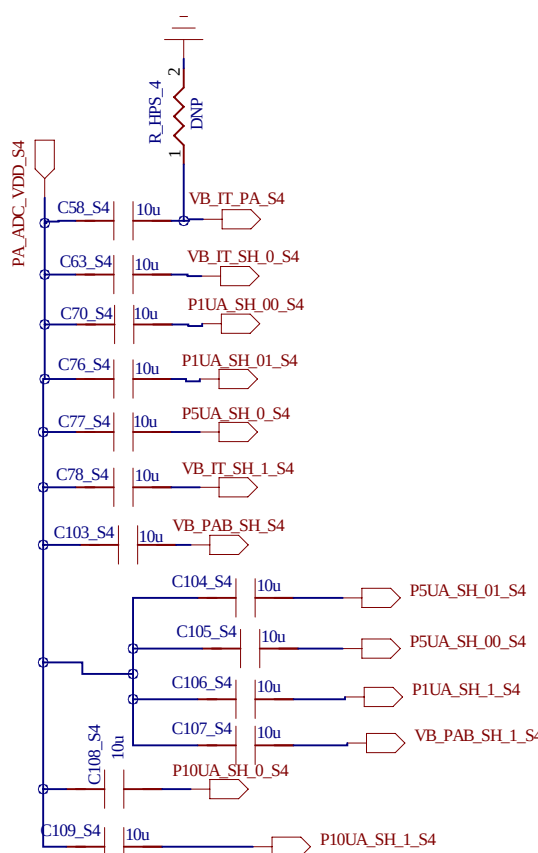
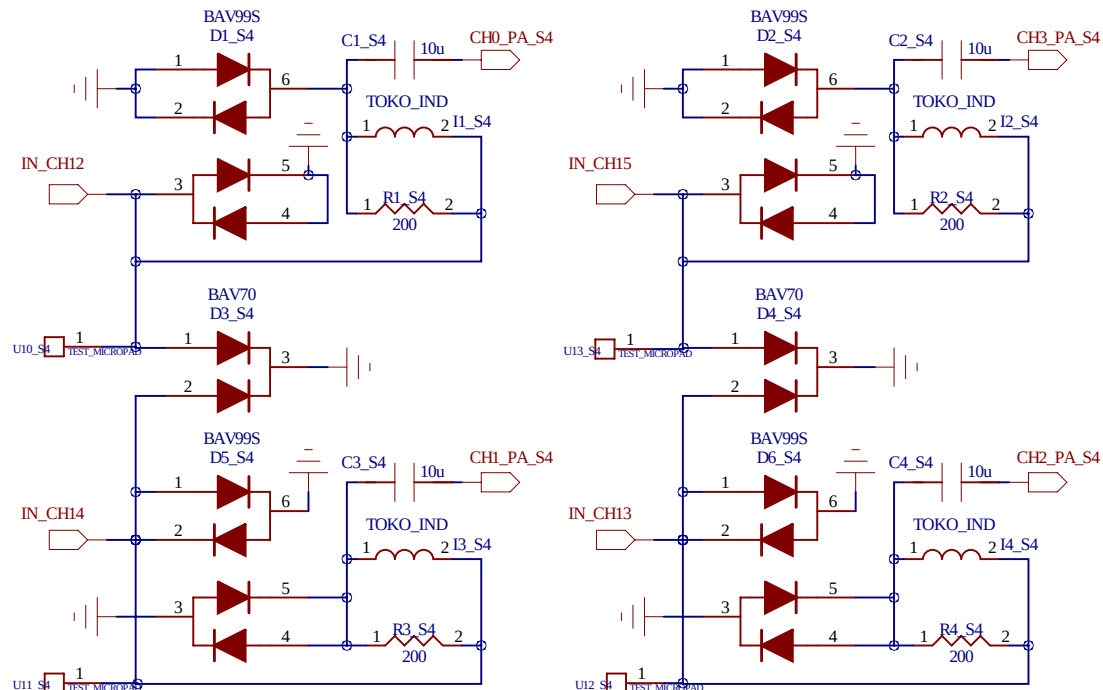
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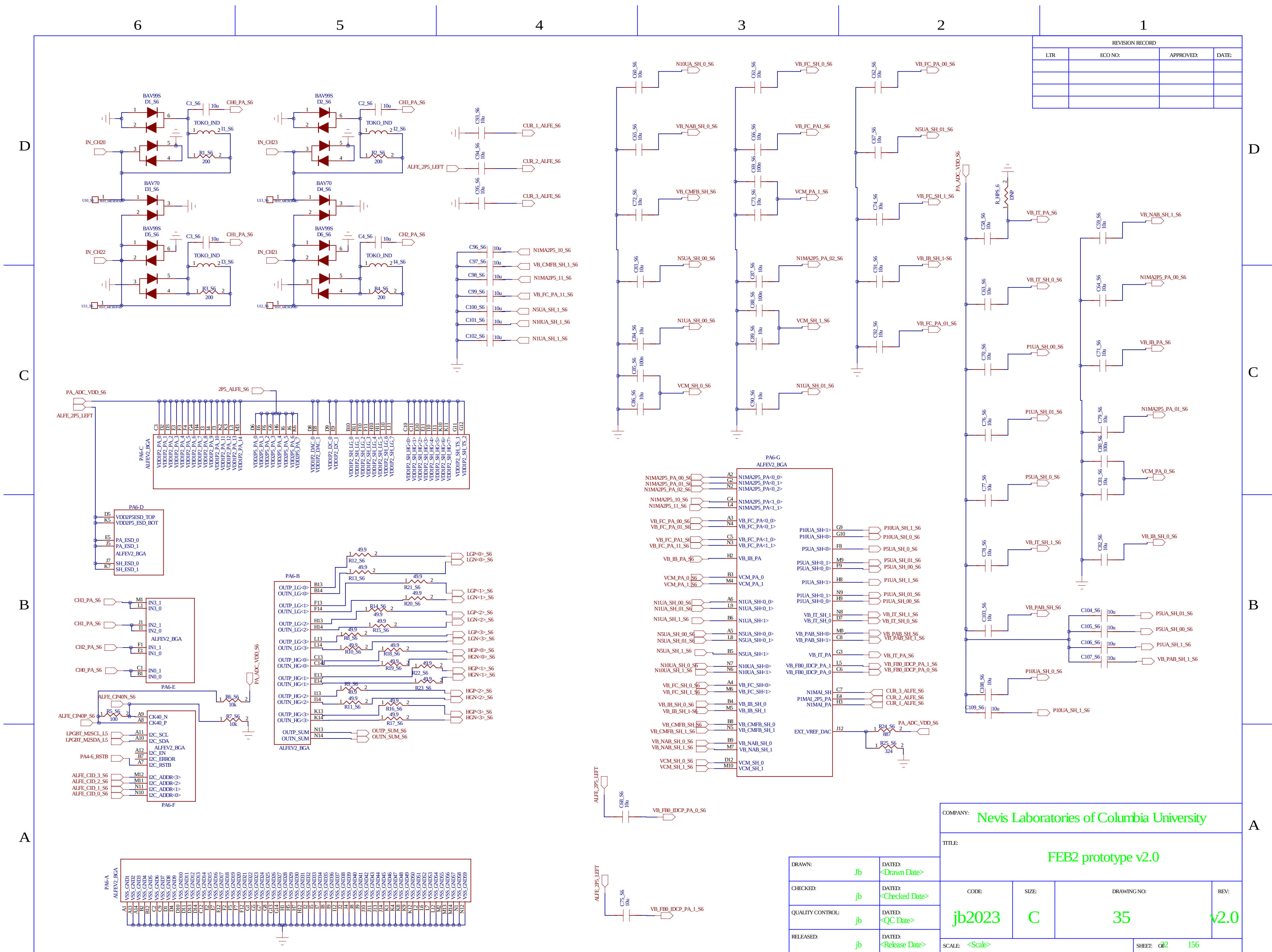
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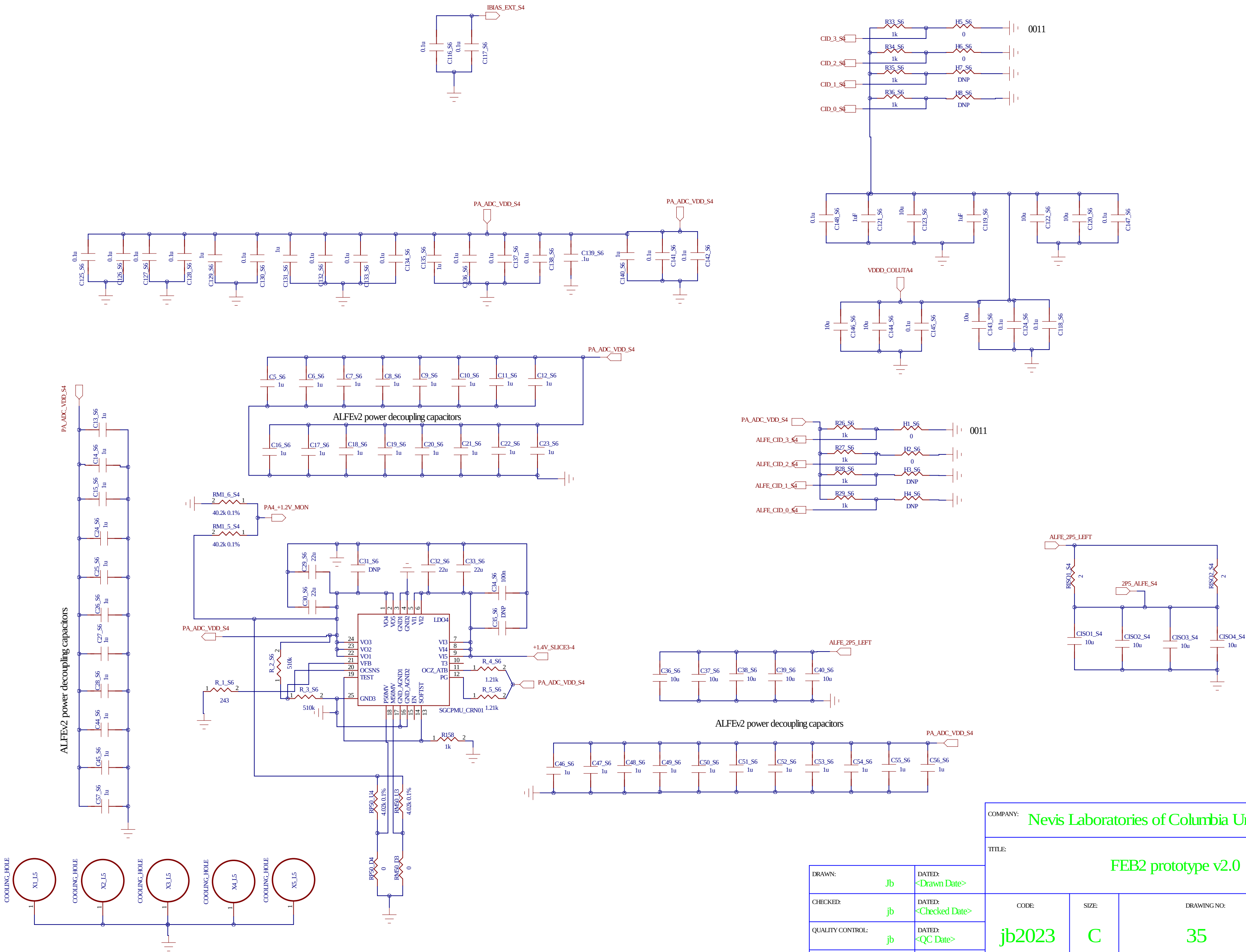
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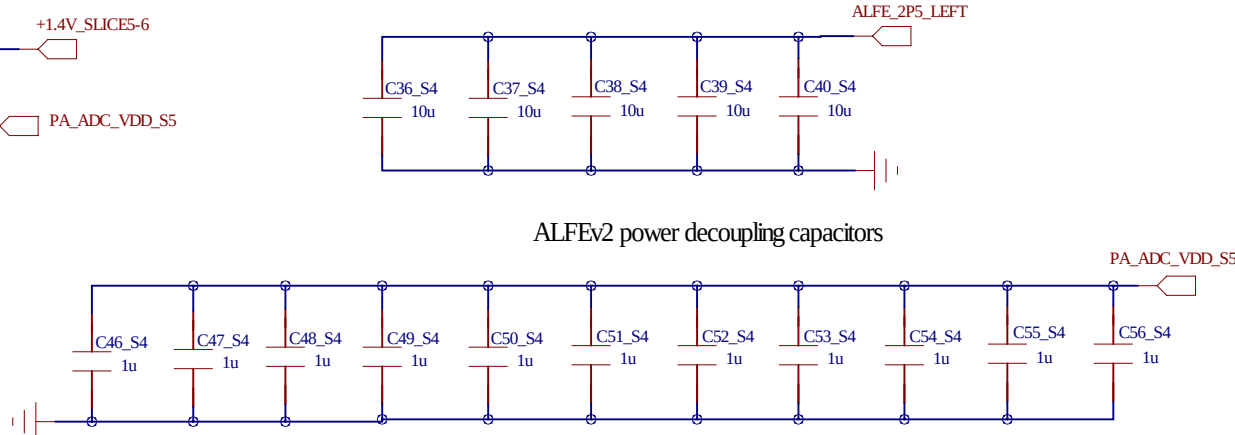
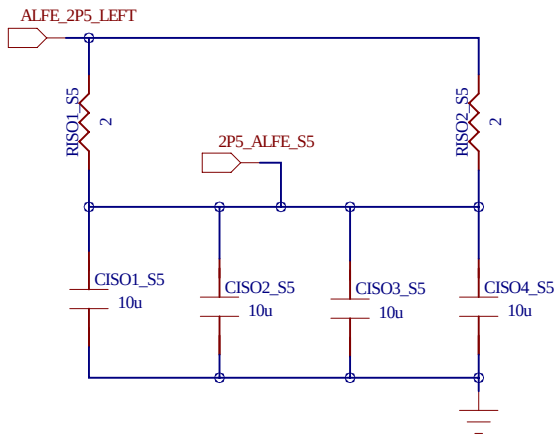
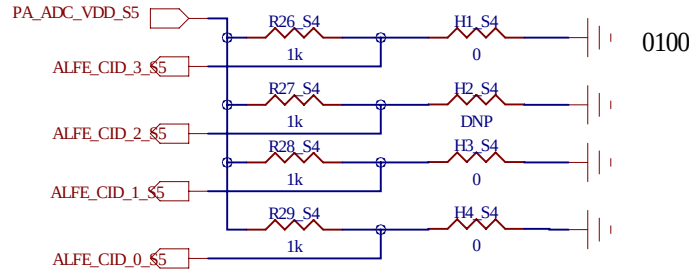
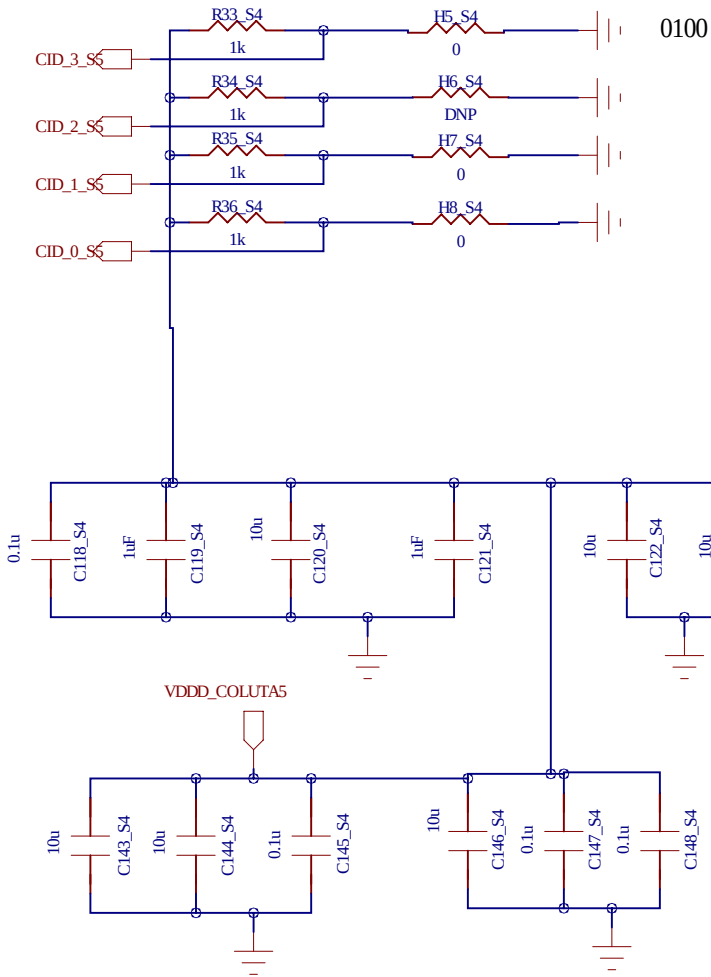
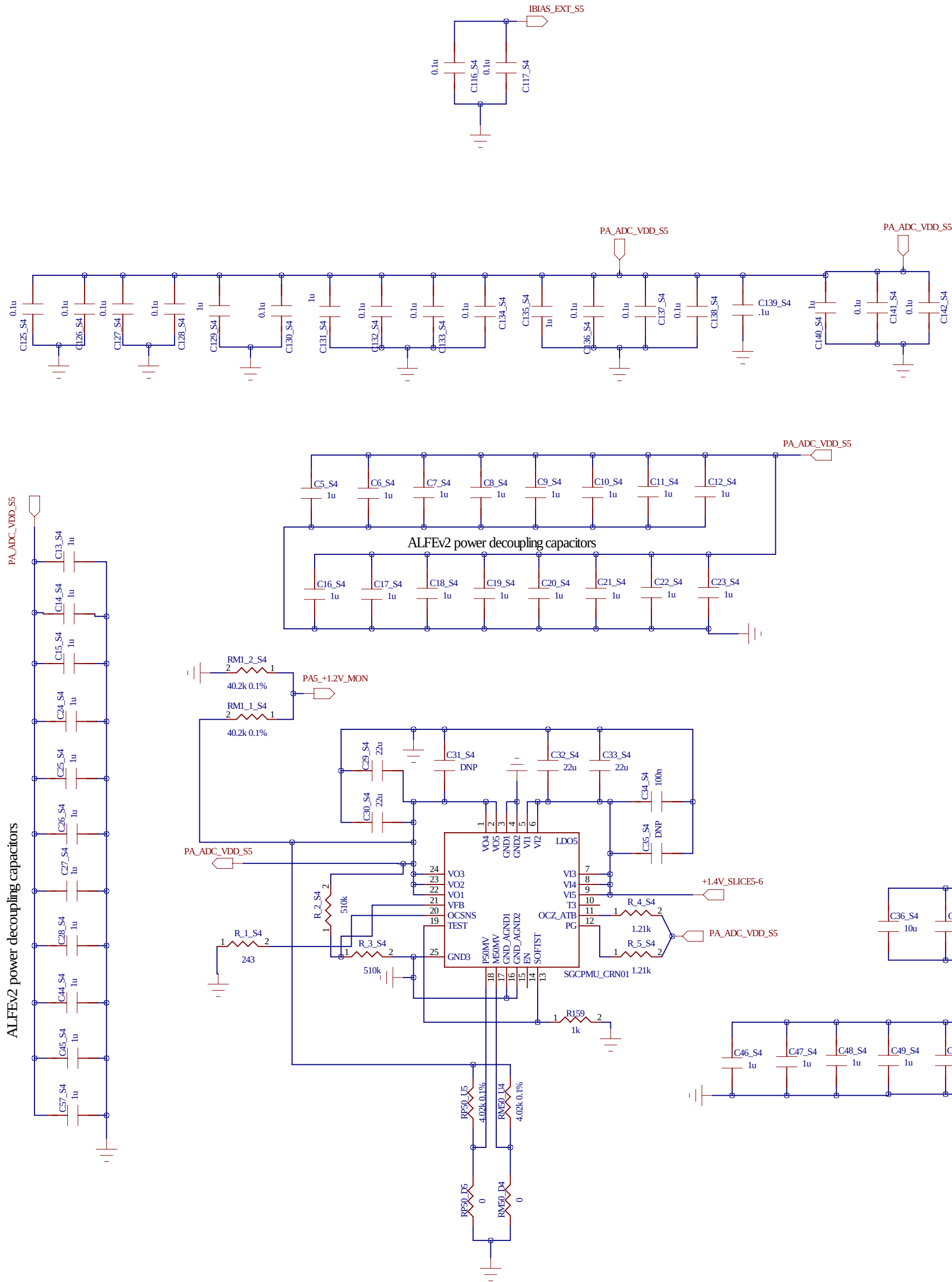
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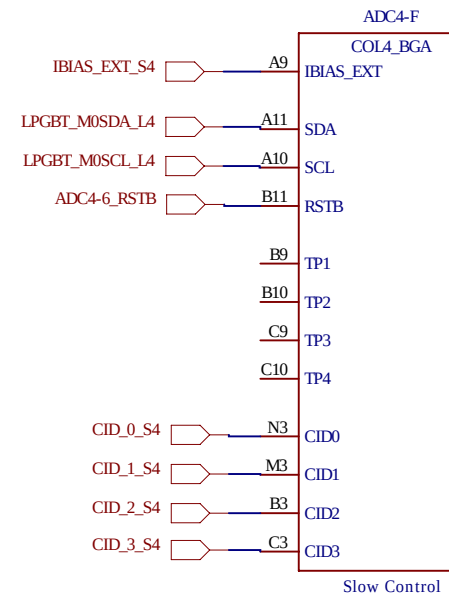
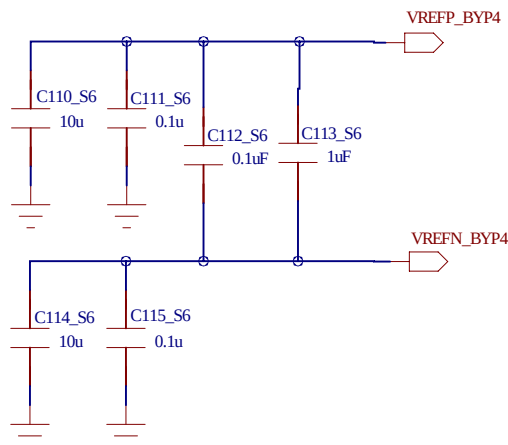
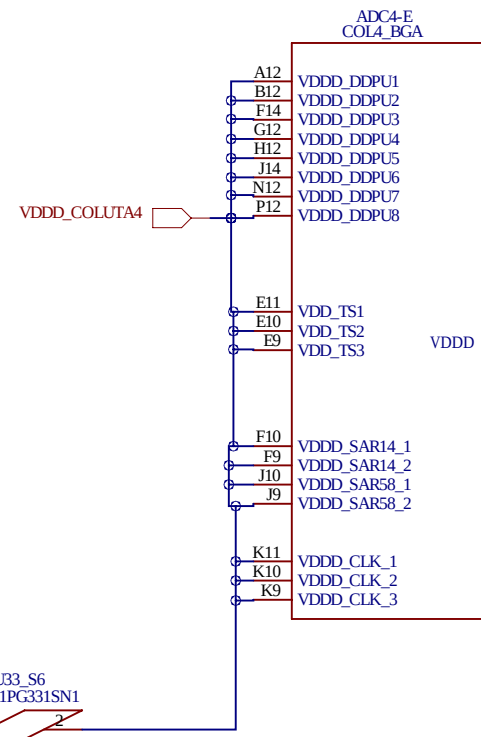
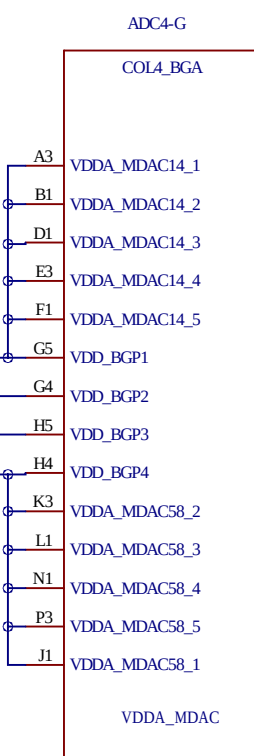
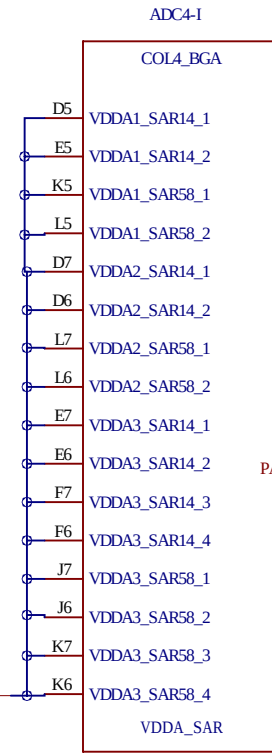
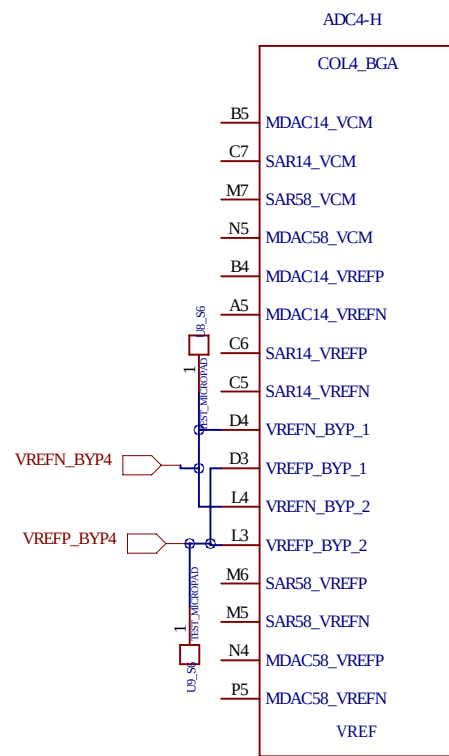
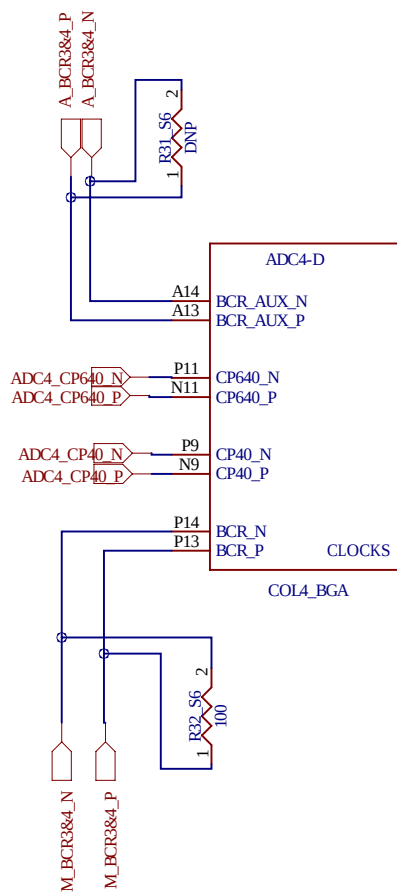
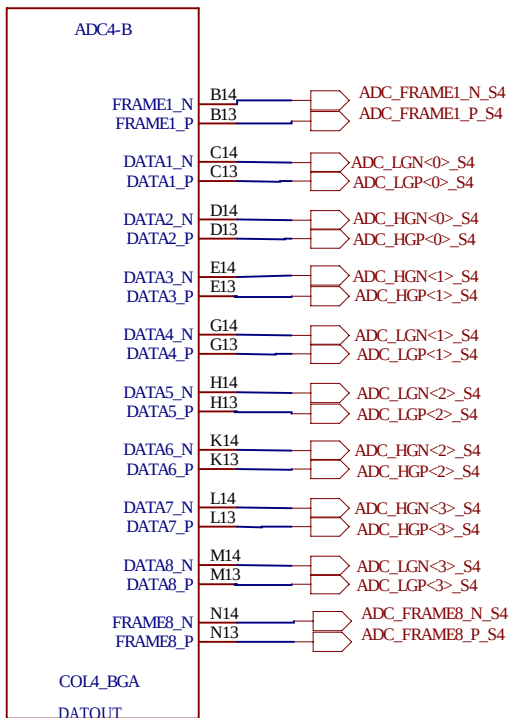
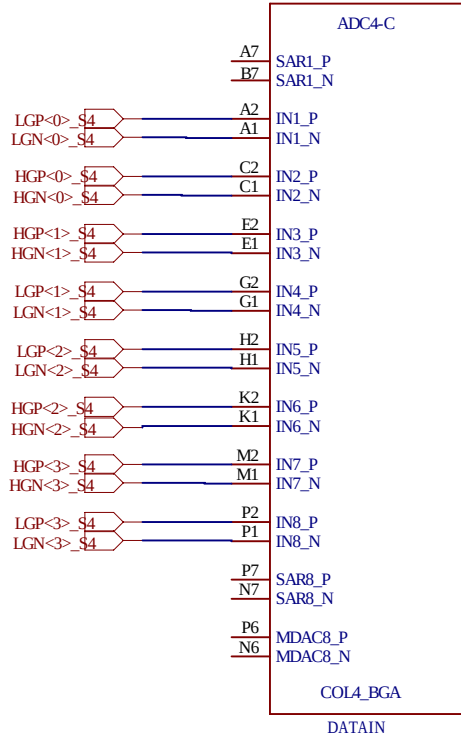
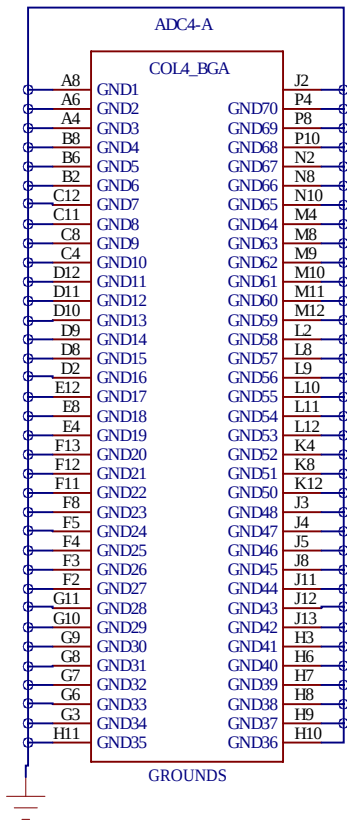
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TITLE: FEB2 prototype v2.0			
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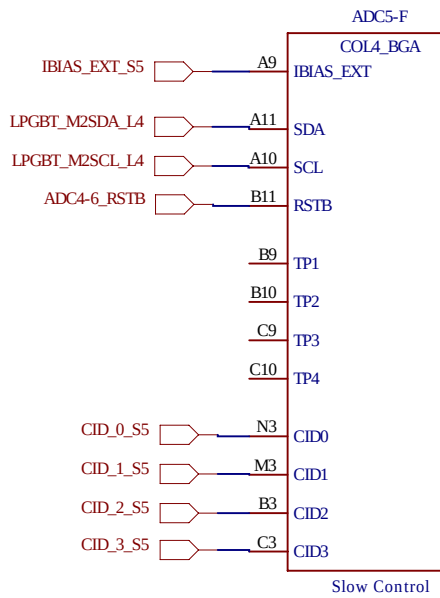
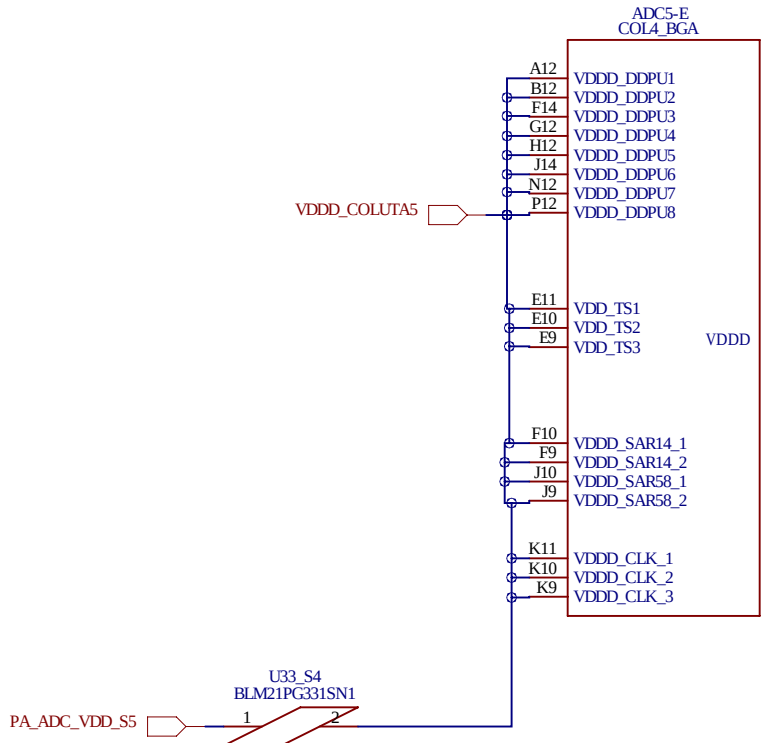
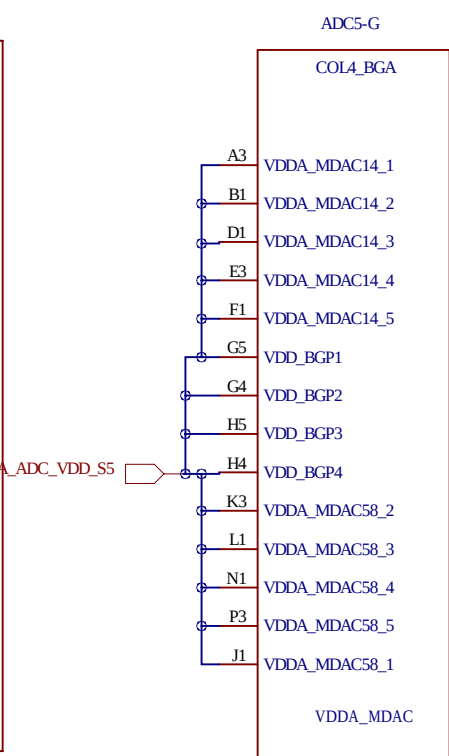
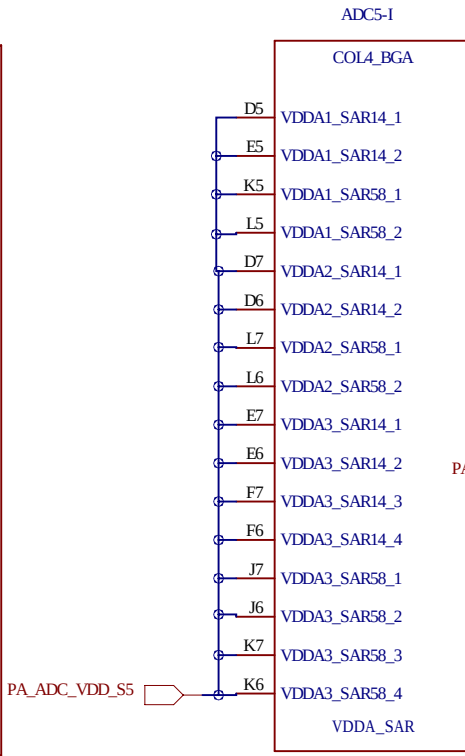
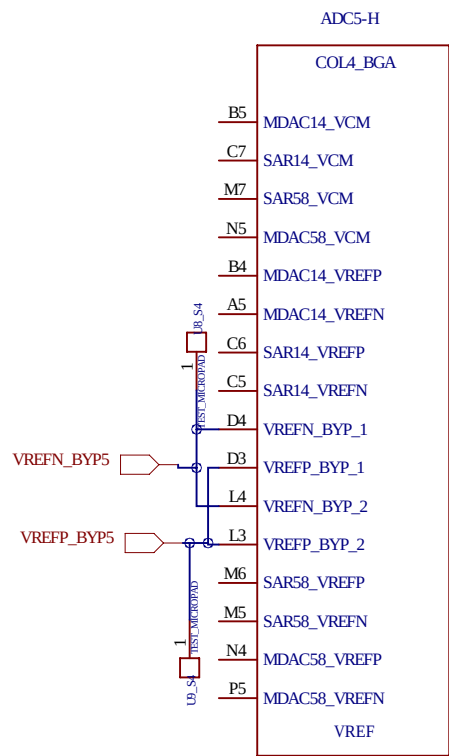
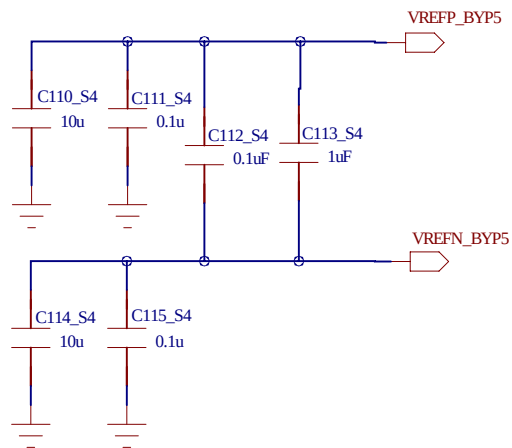
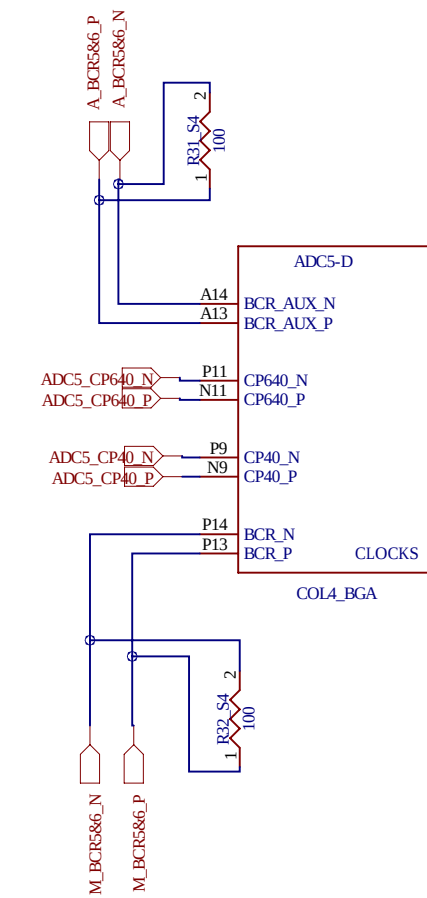
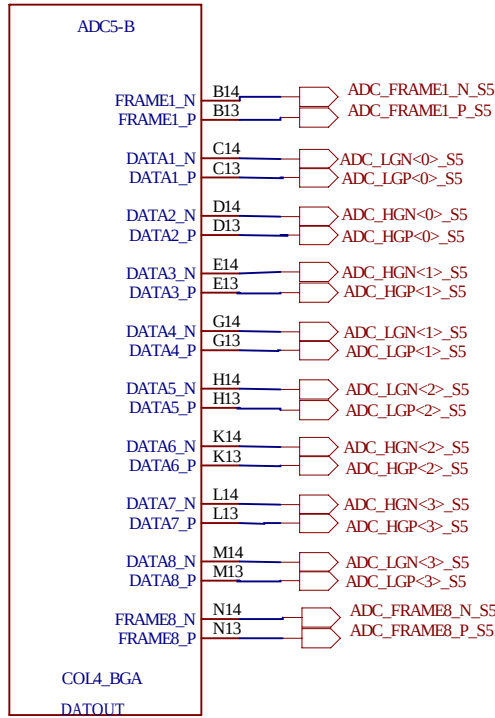
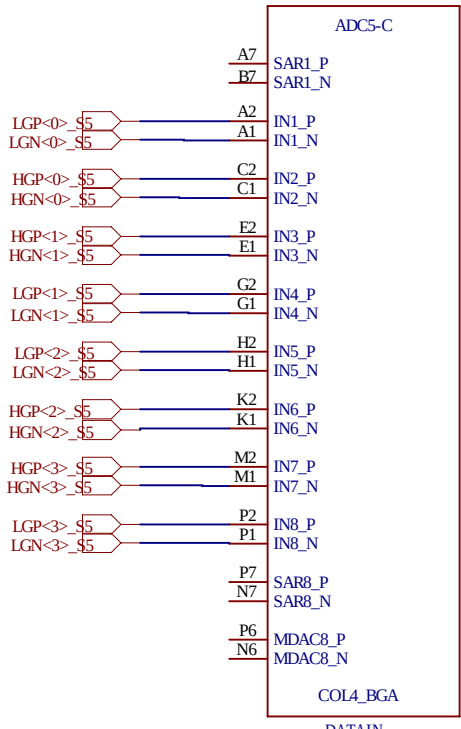
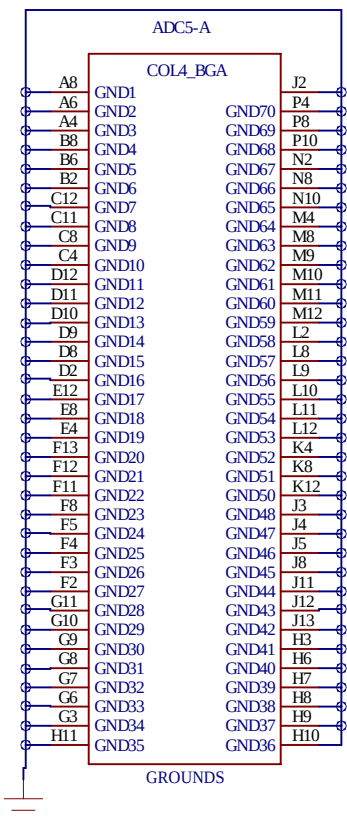
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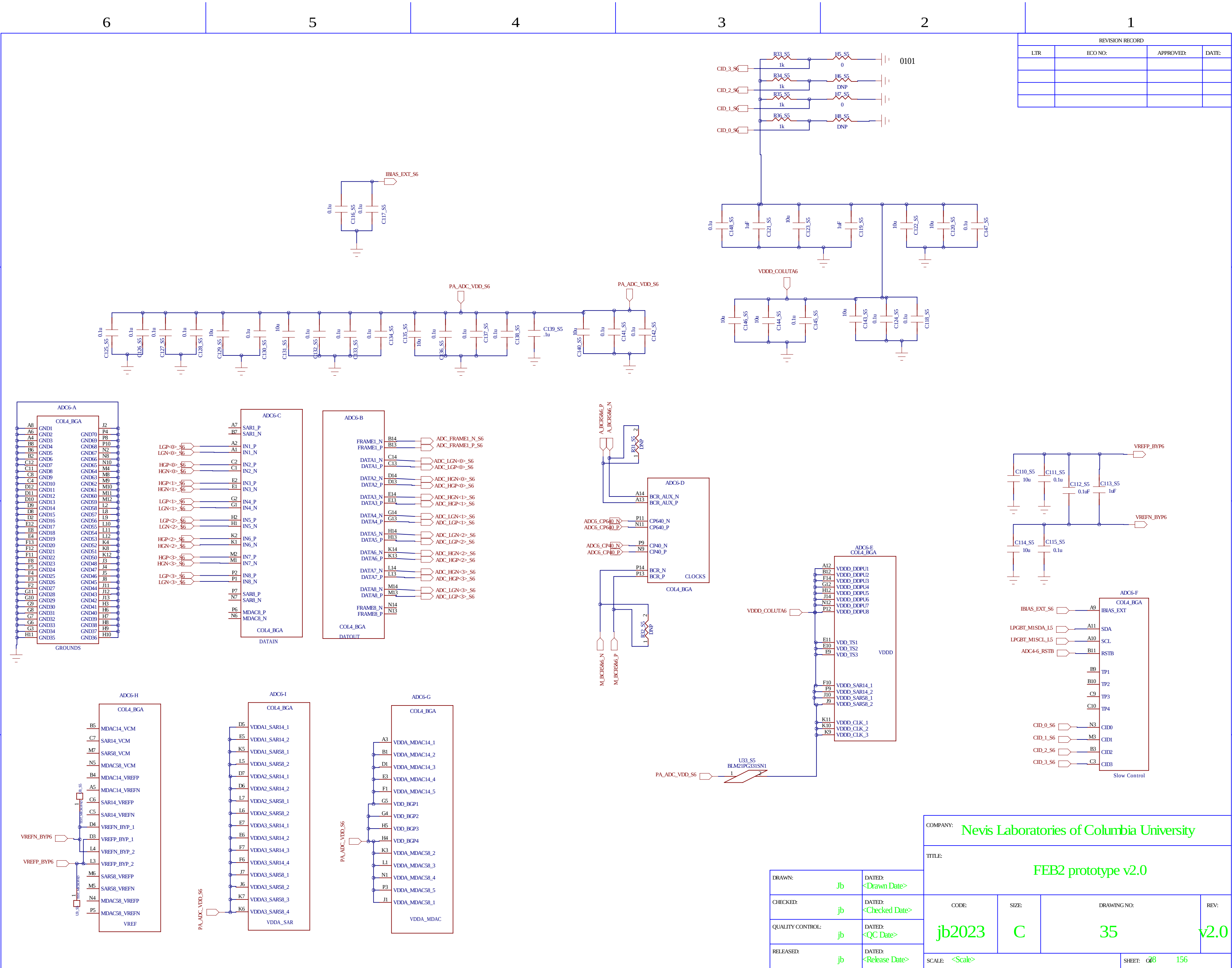
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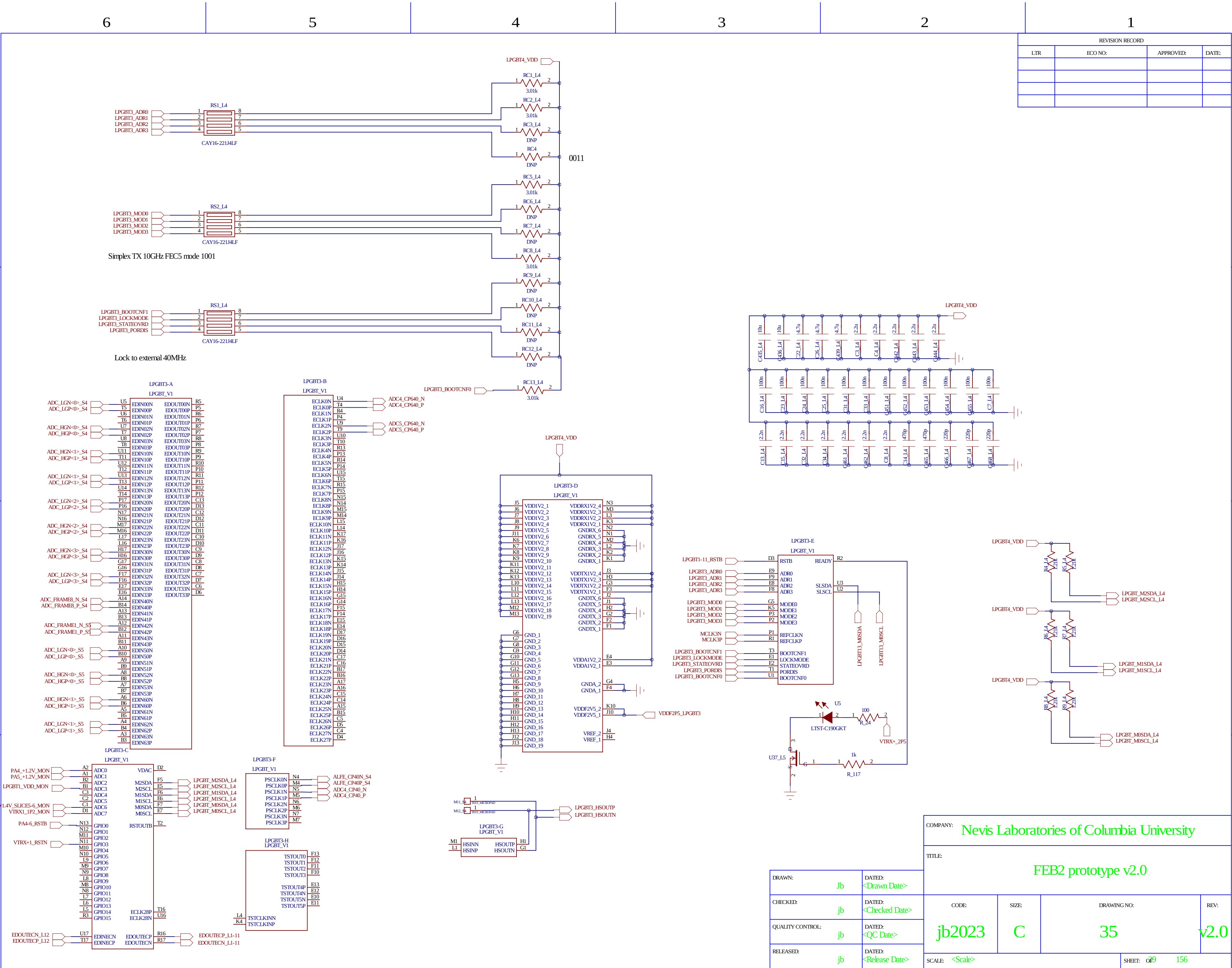
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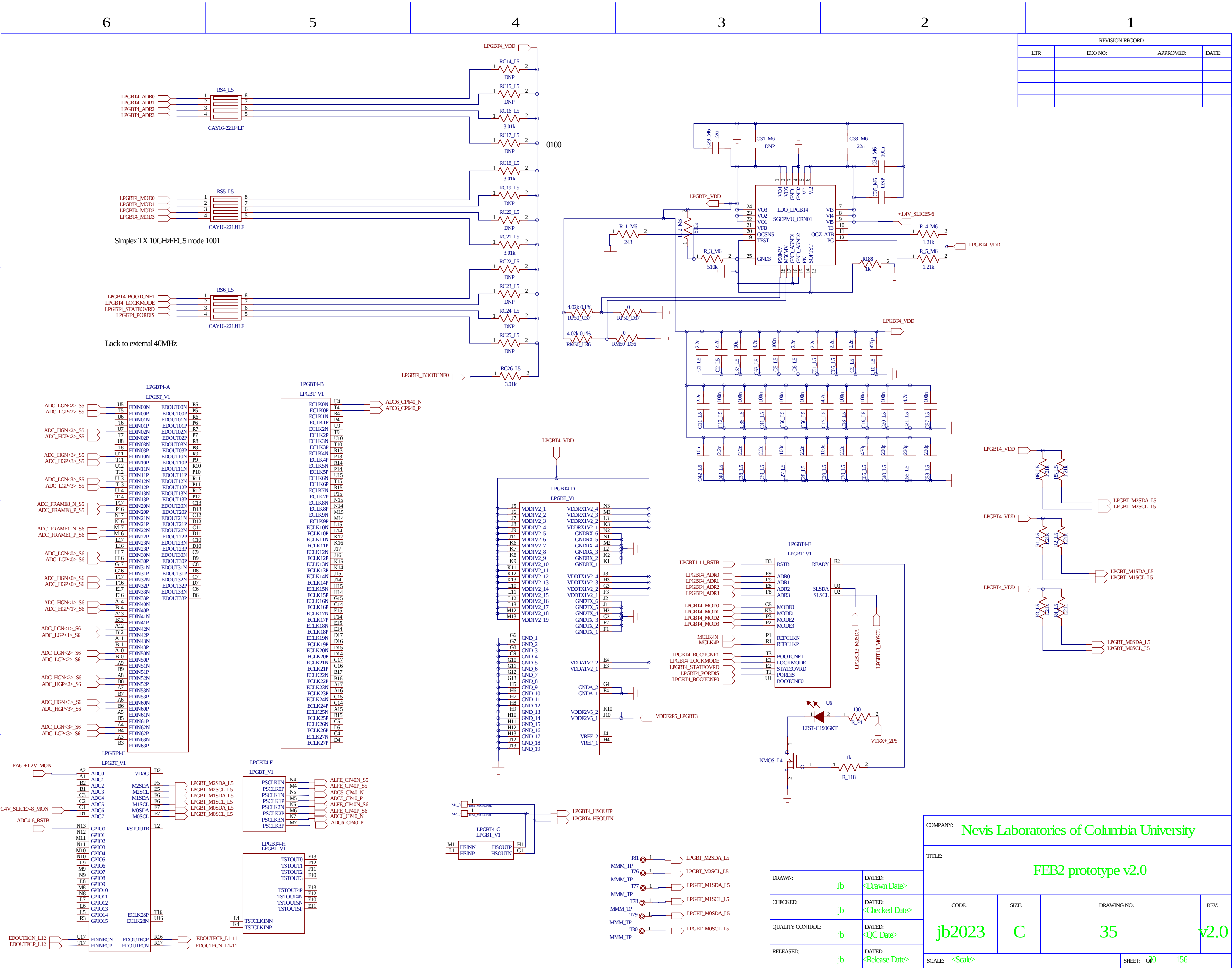
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COMPANY: **Nevis Laboratories of Columbia University**

TITLE: **FEB2 prototype v2.0**

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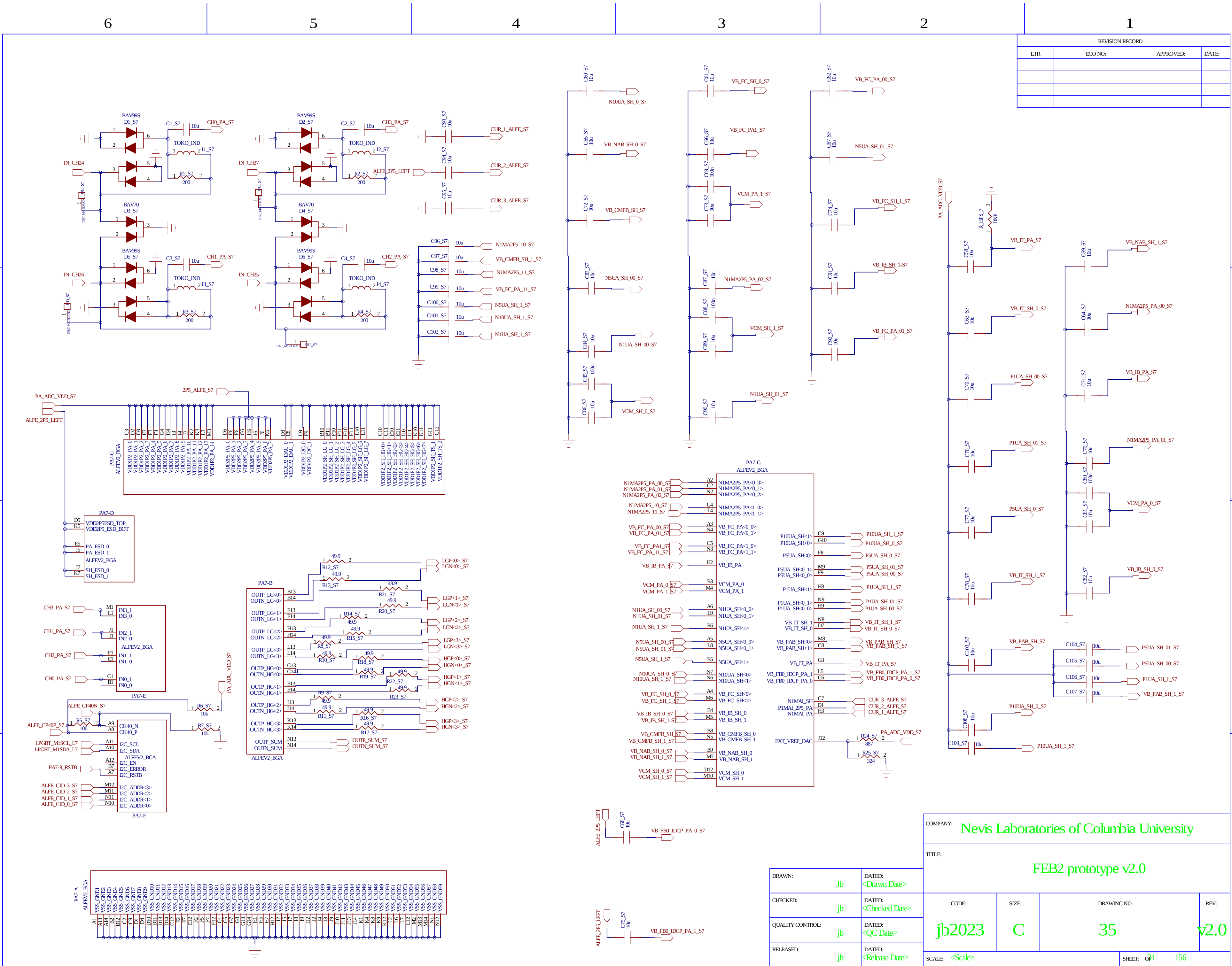


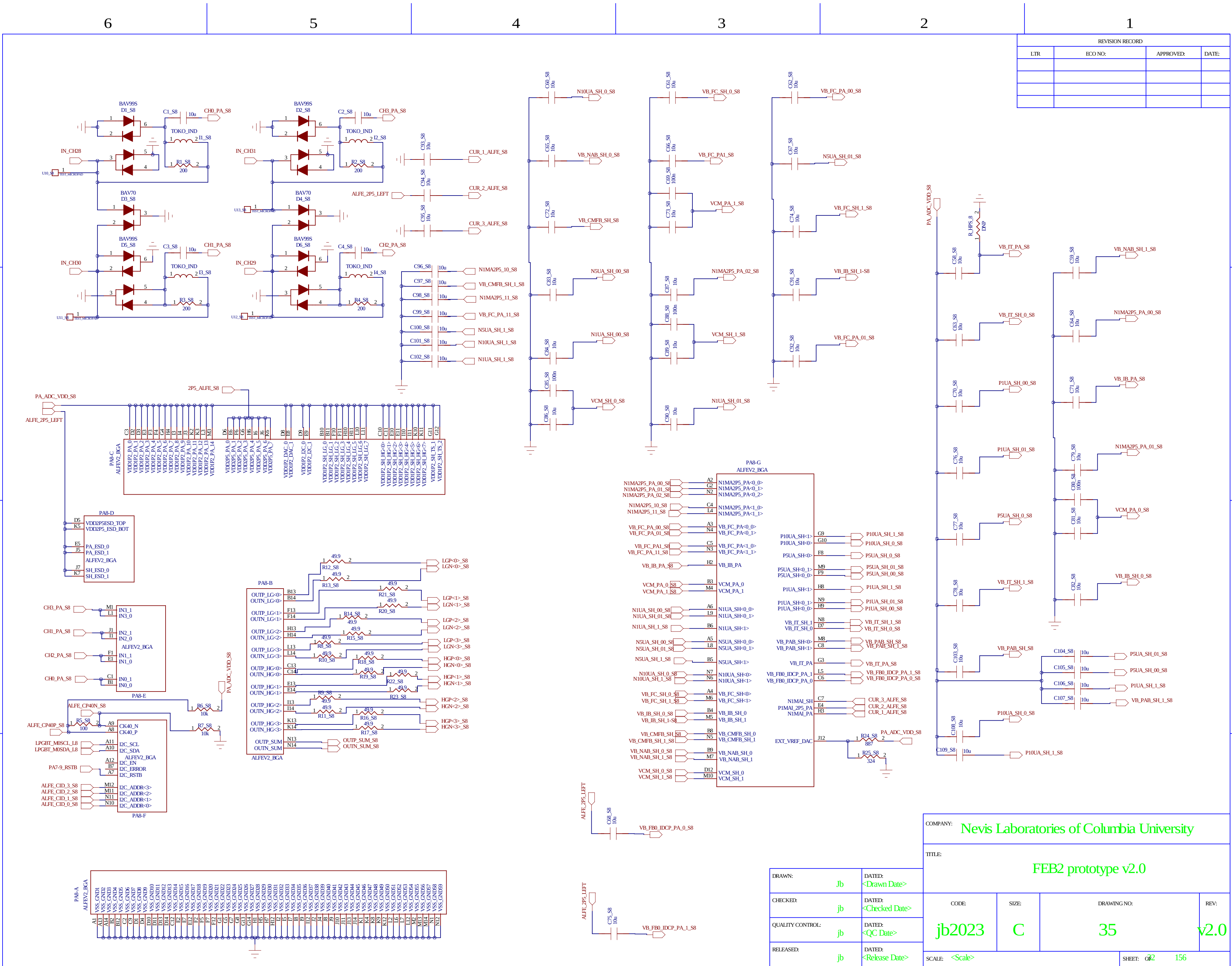
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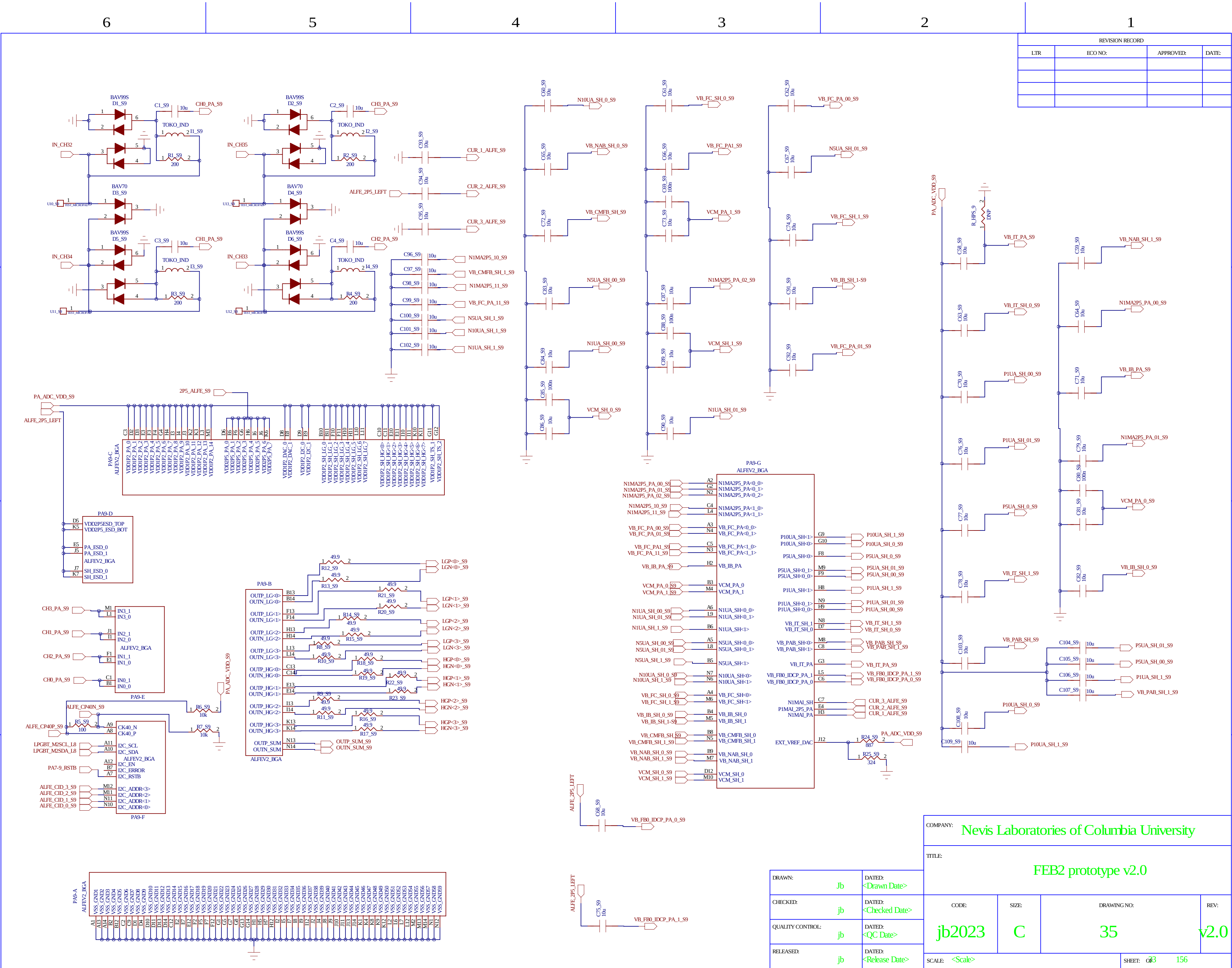
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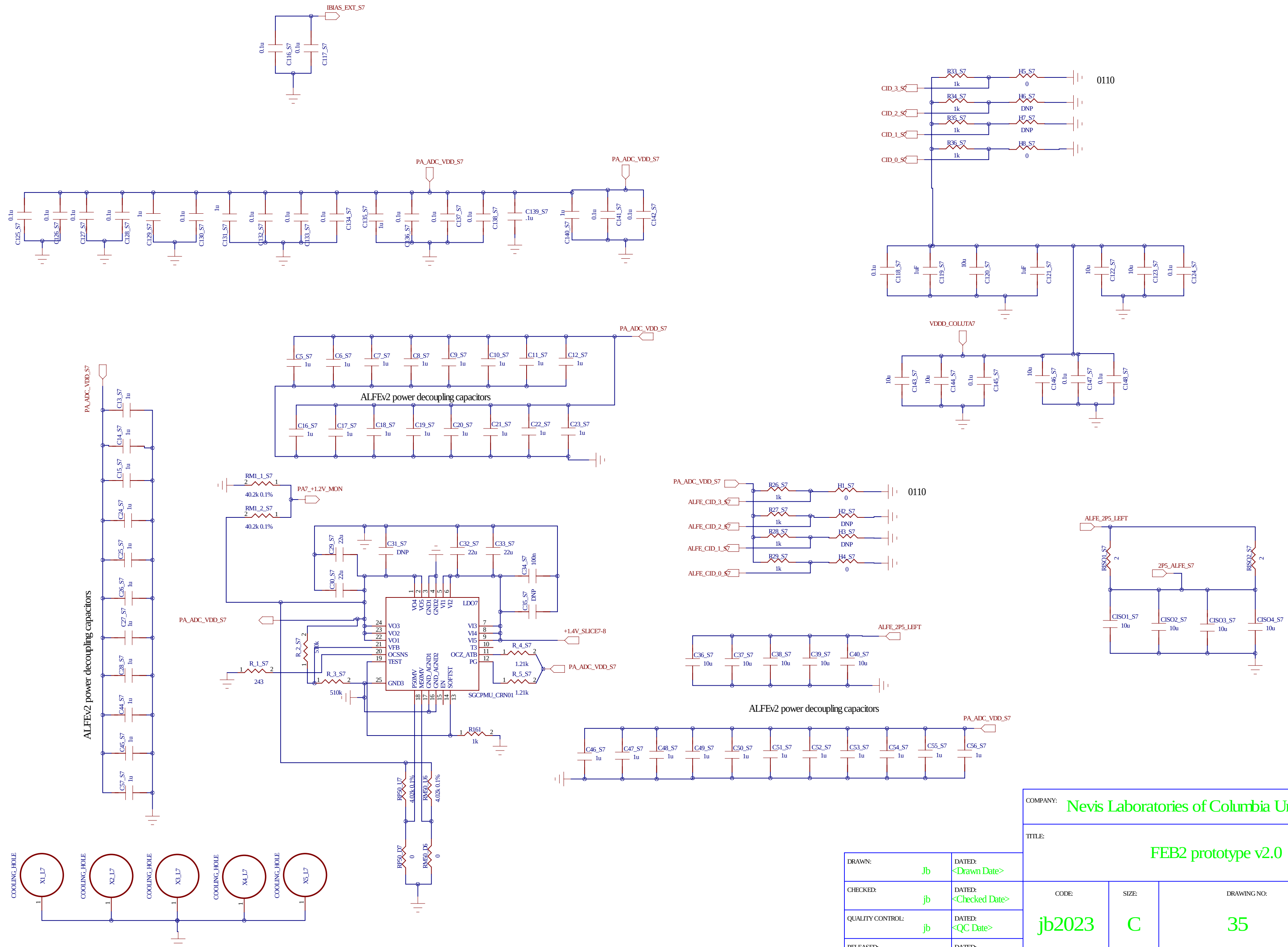




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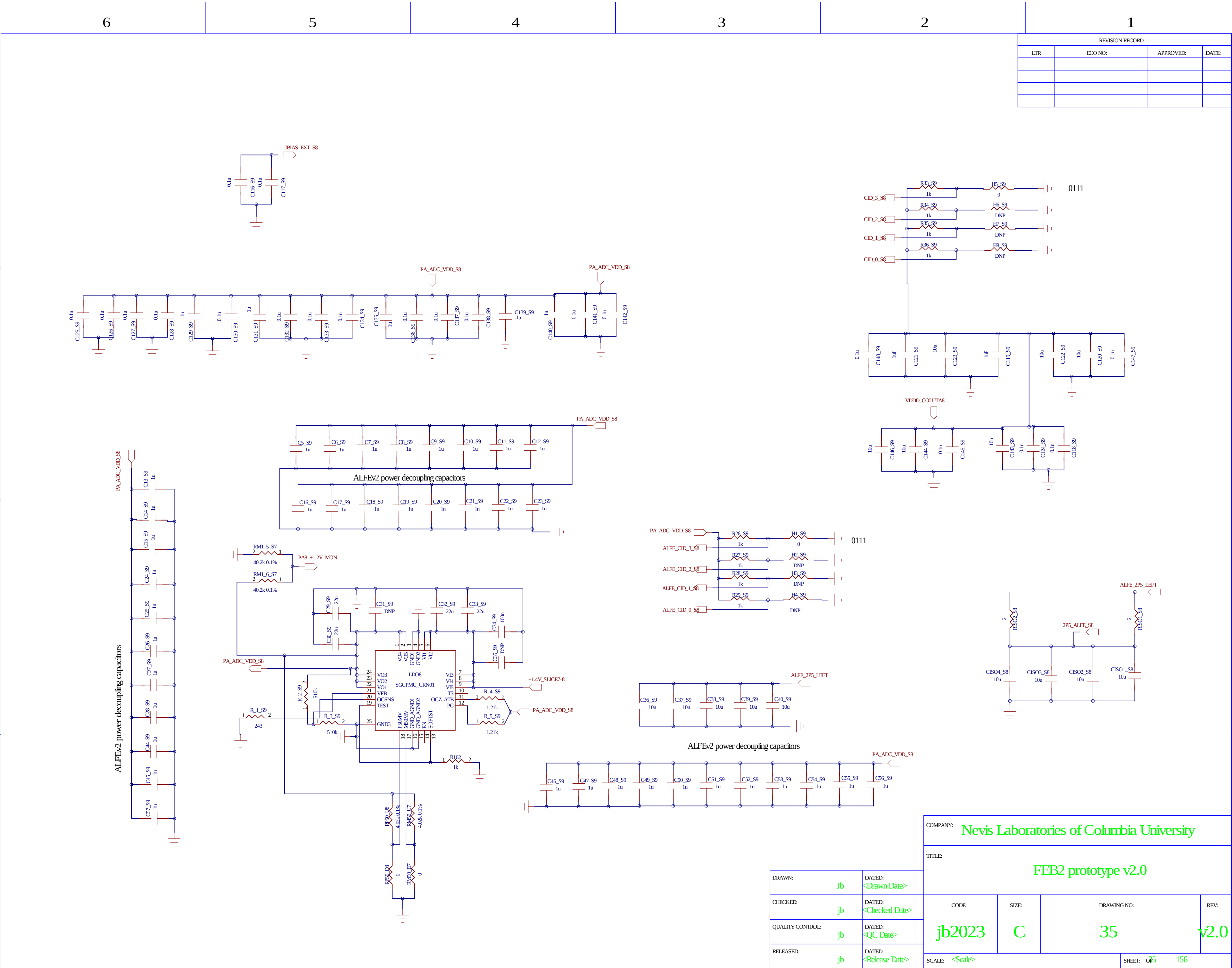
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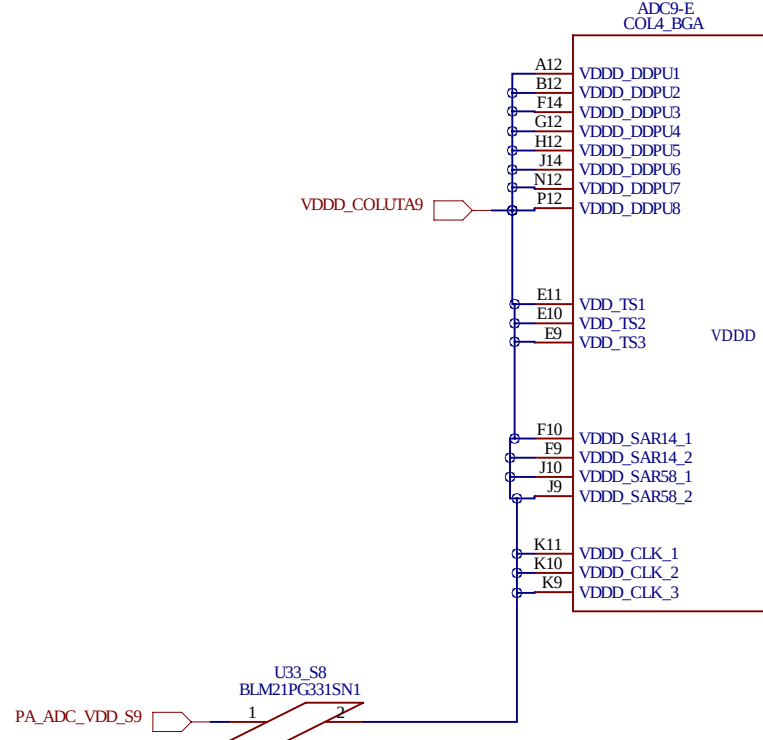
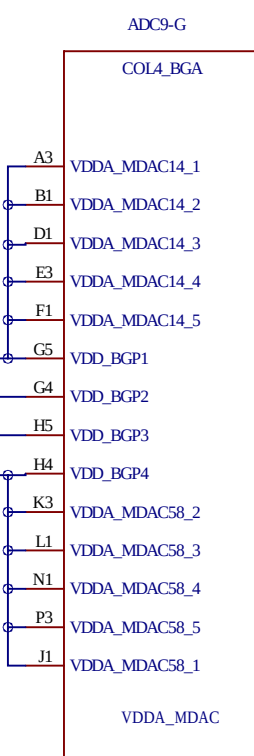
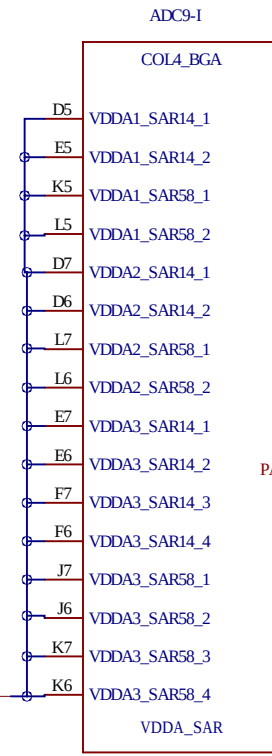
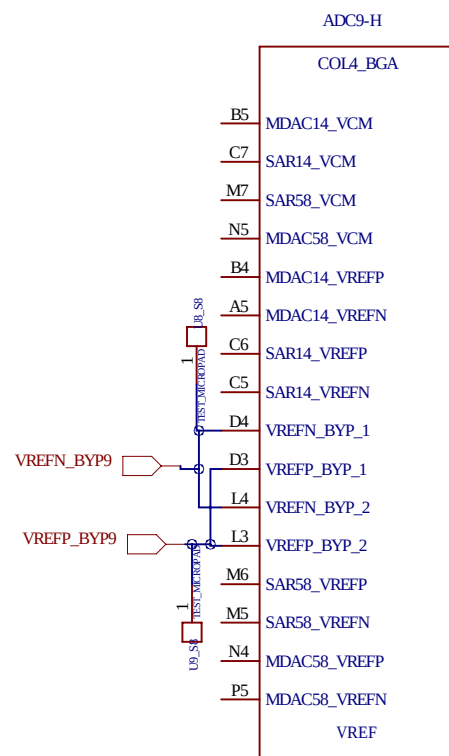
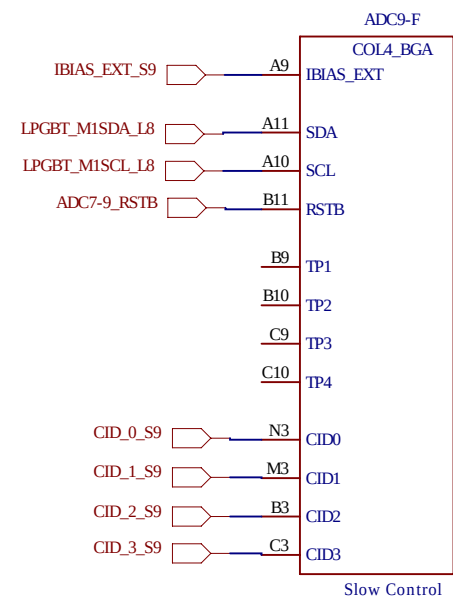
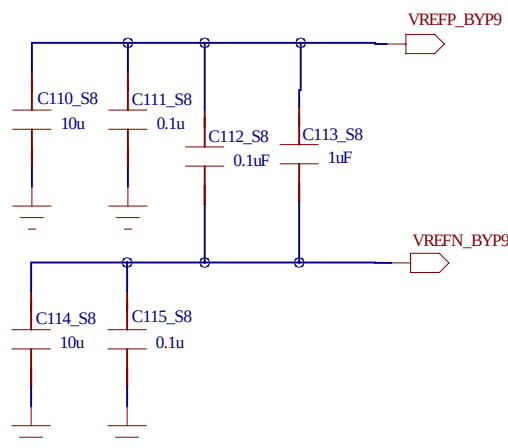
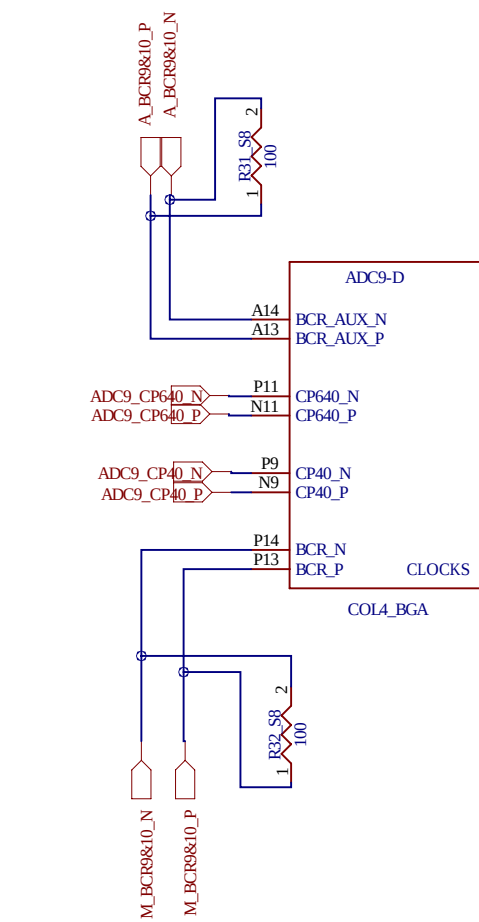
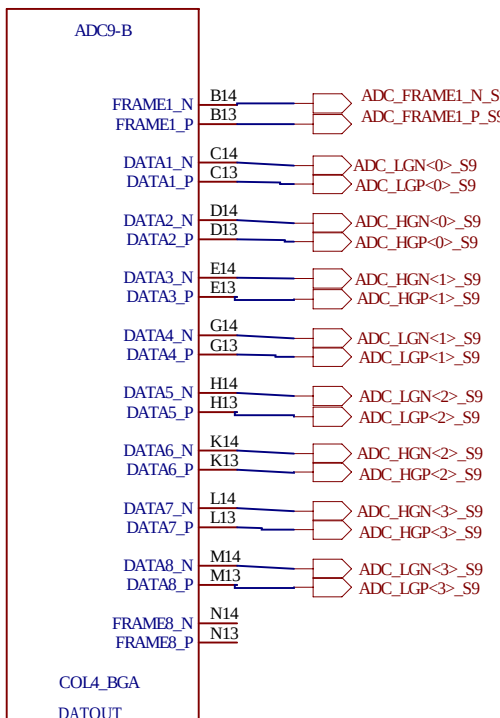
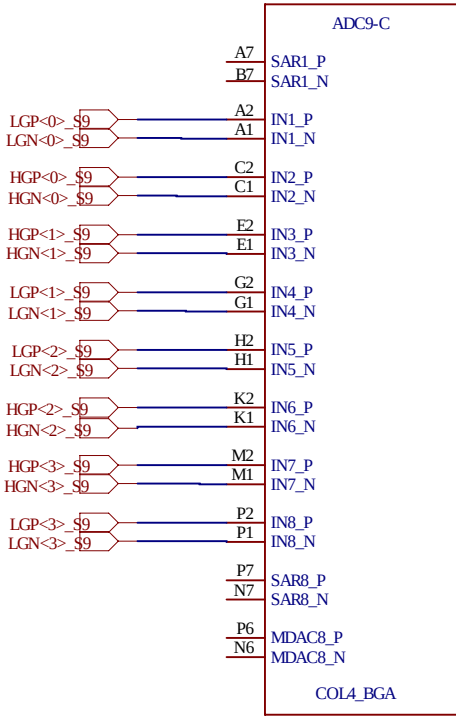
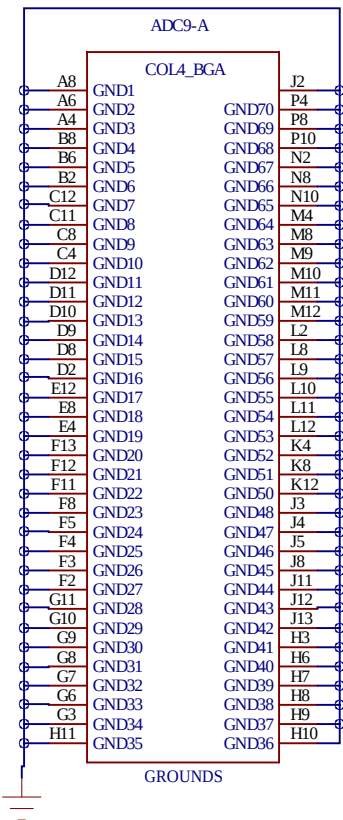
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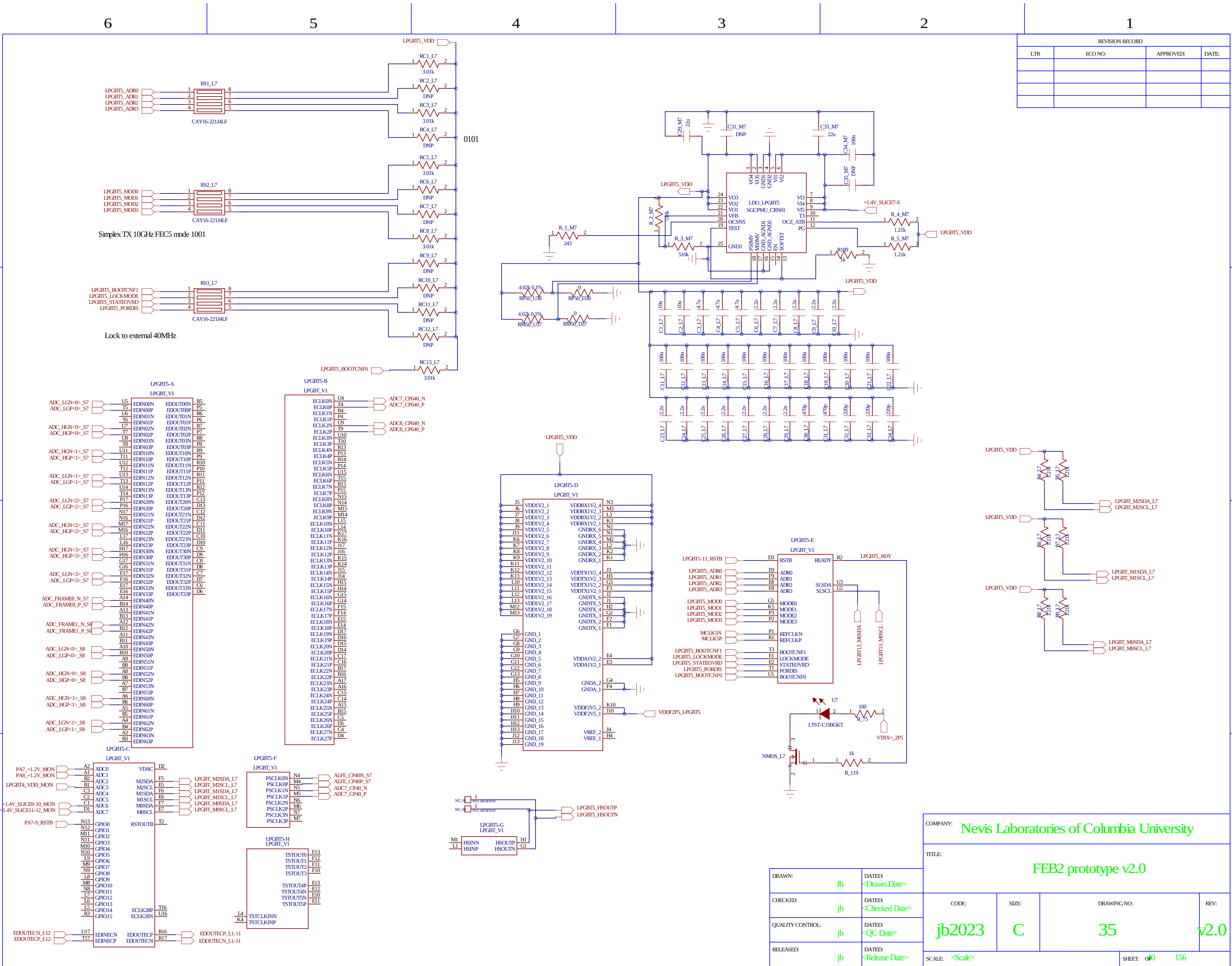
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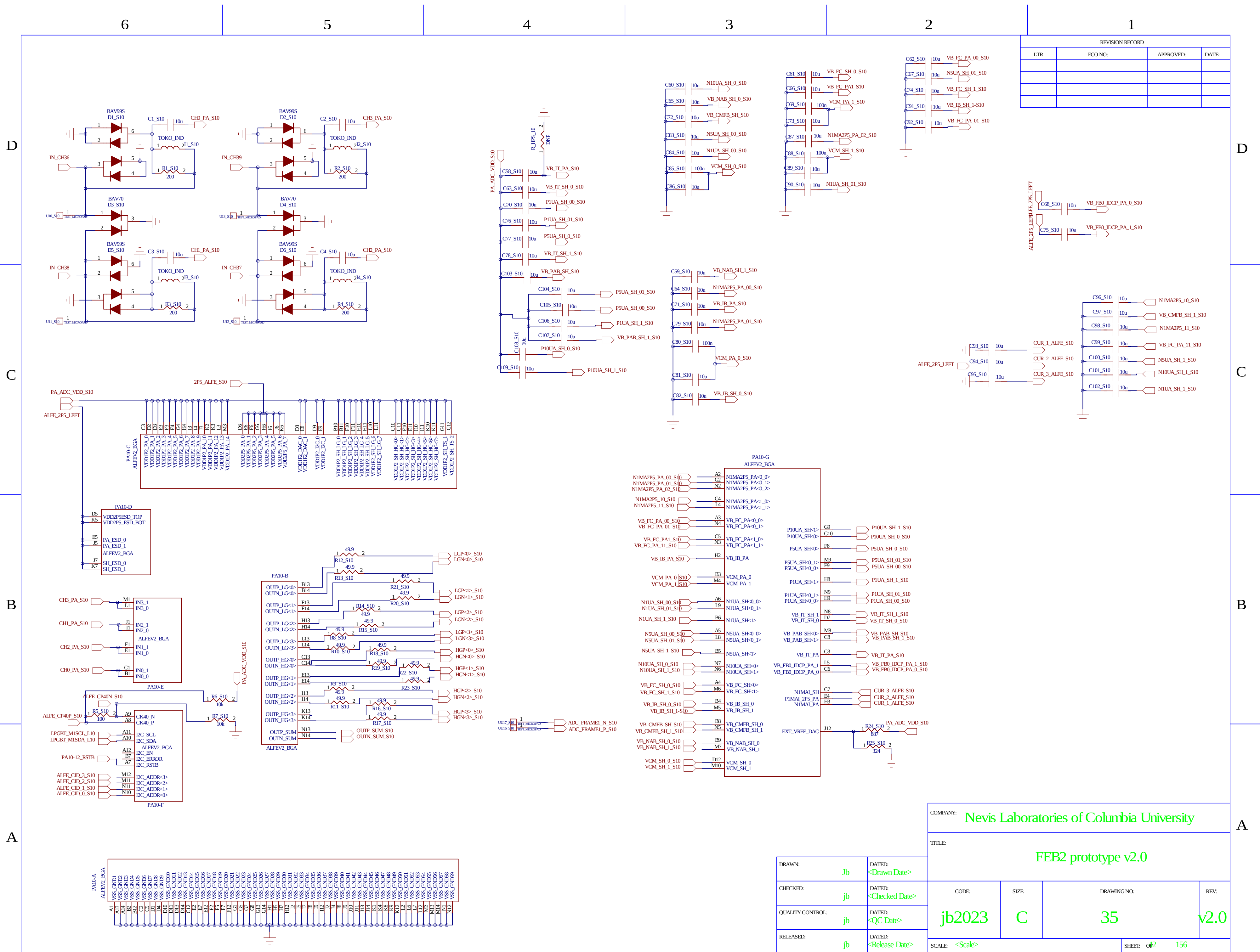


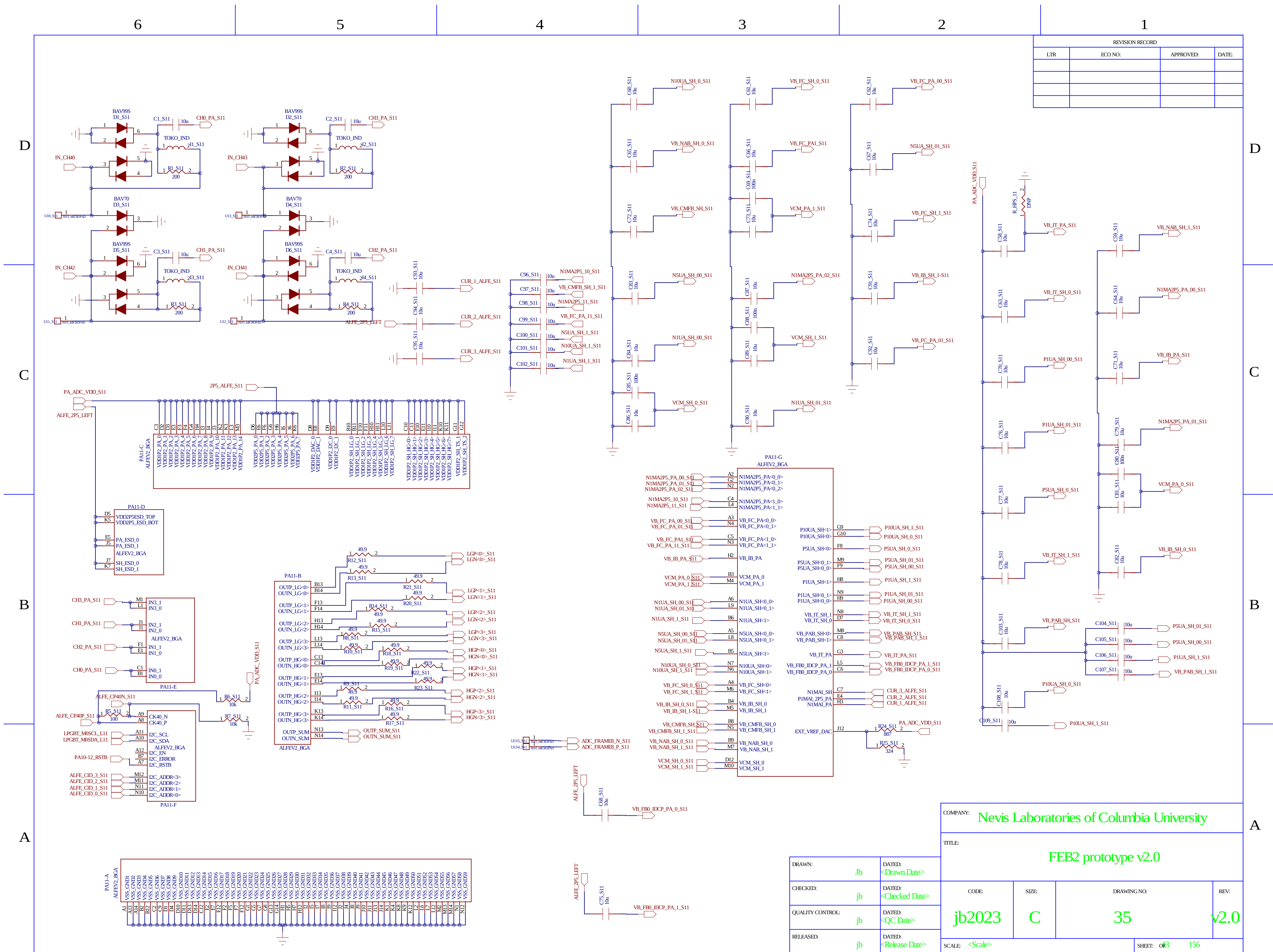
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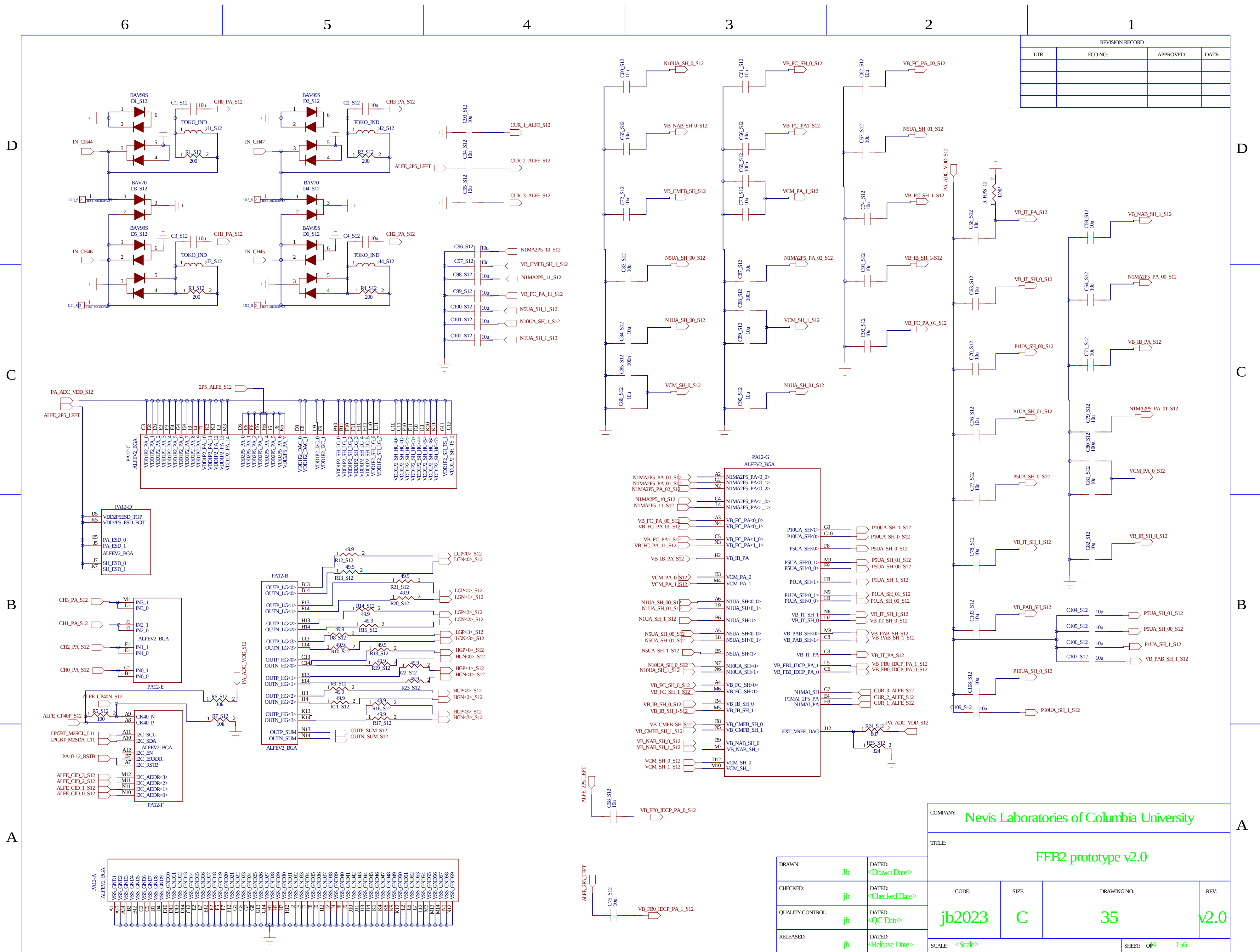
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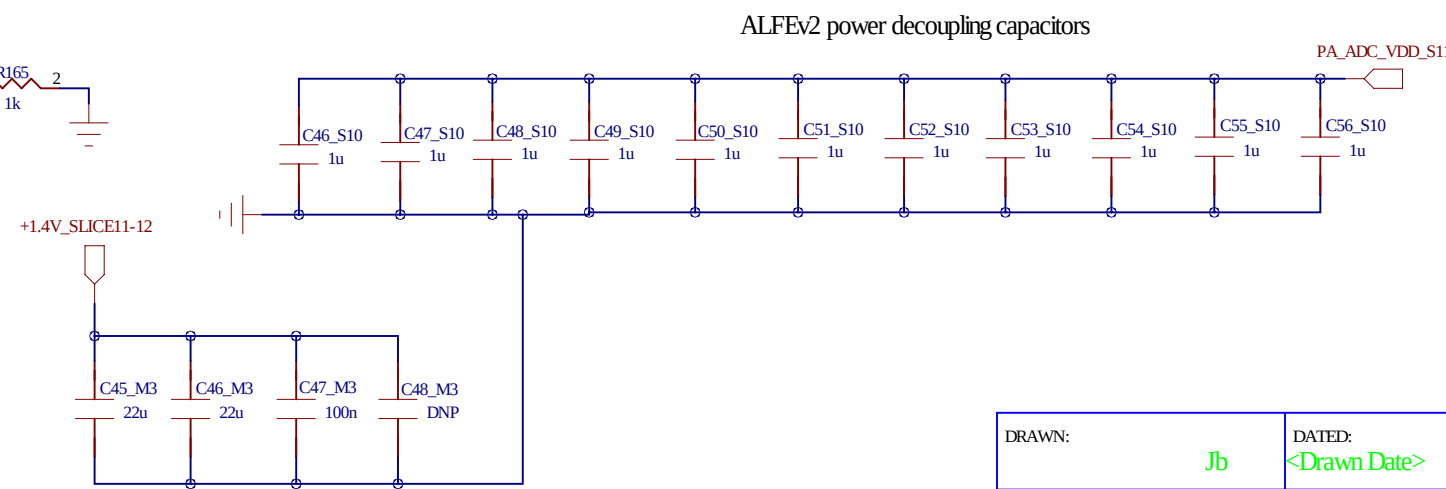
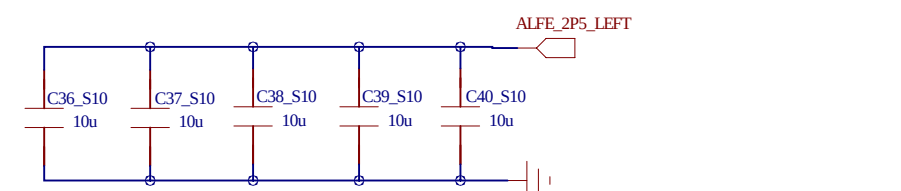
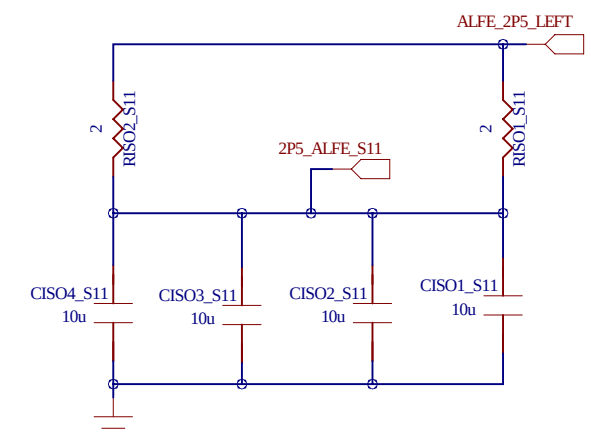
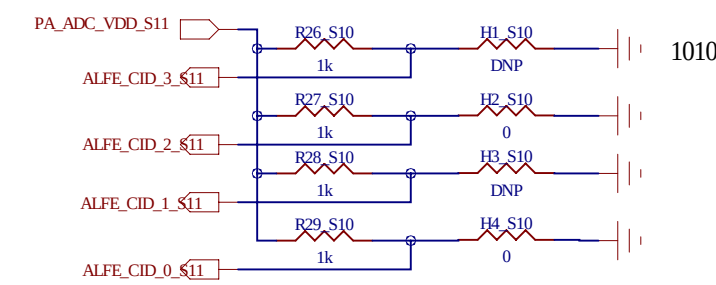
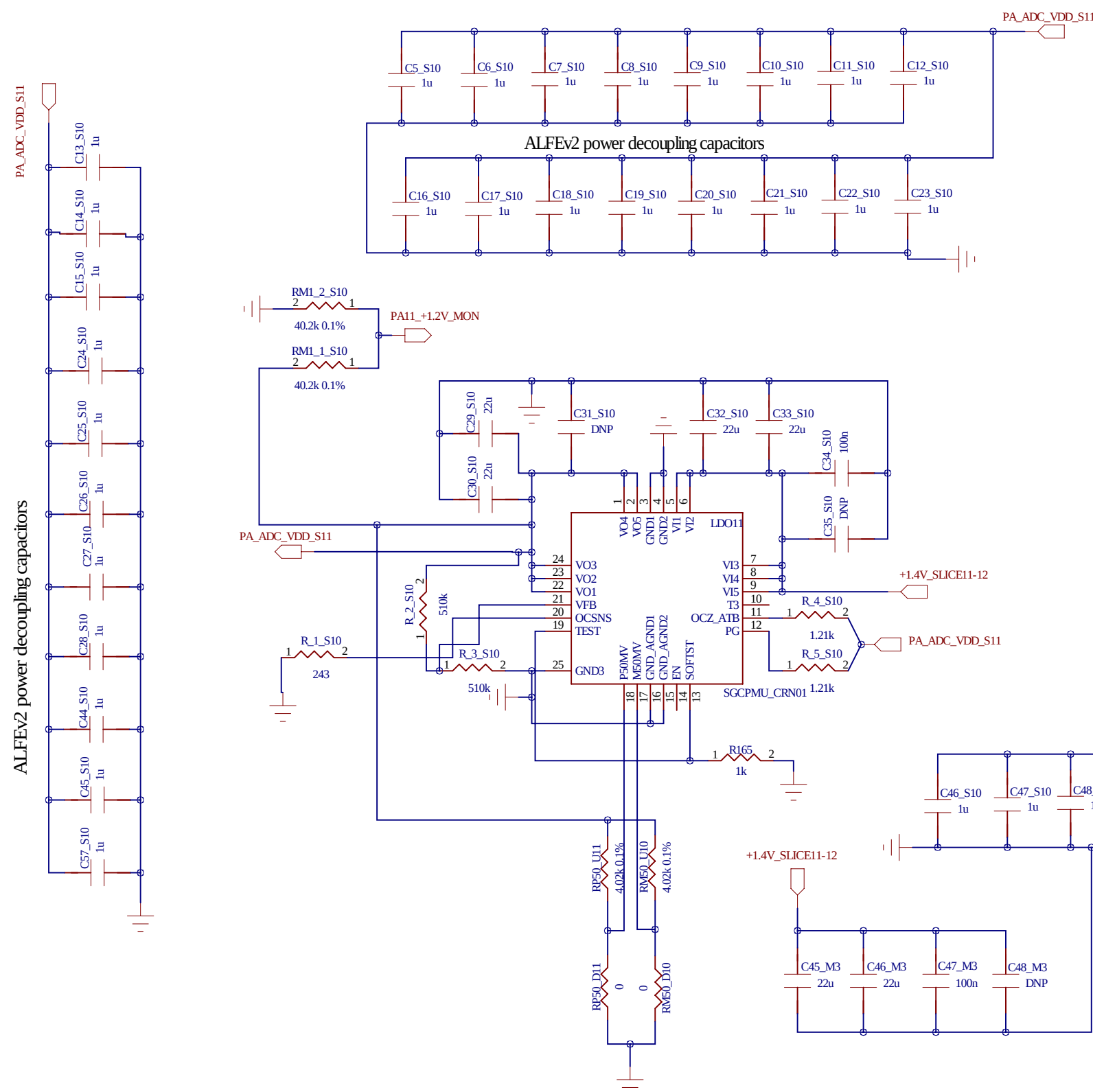
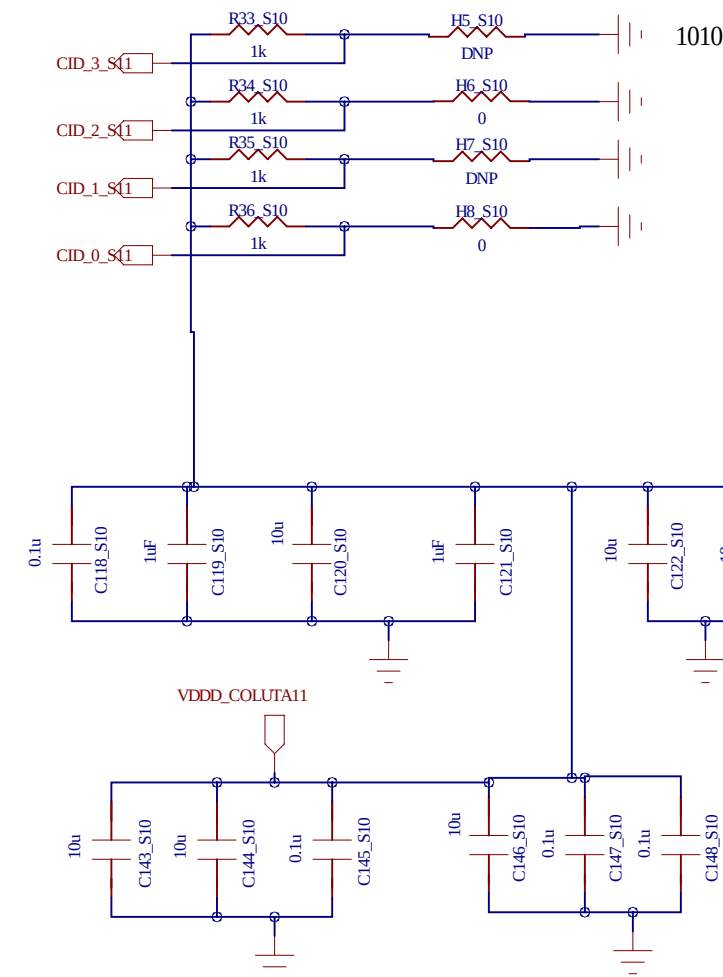
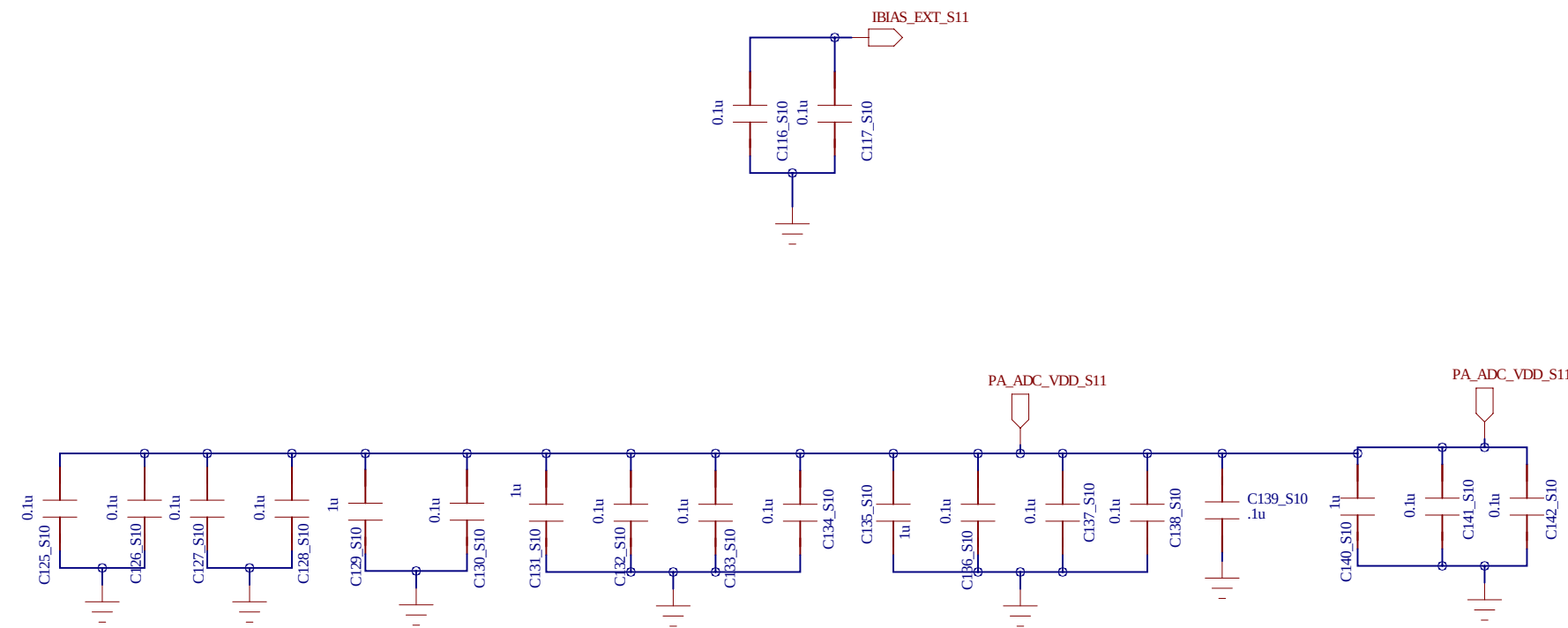
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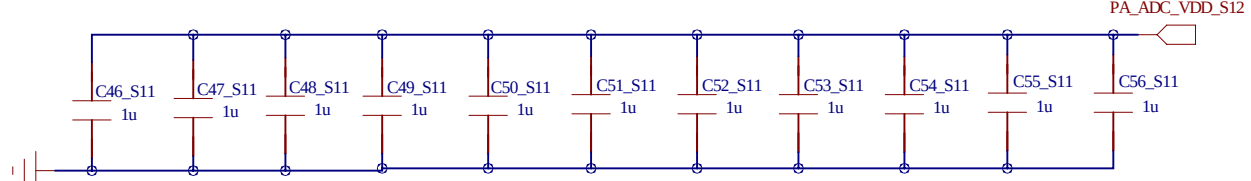
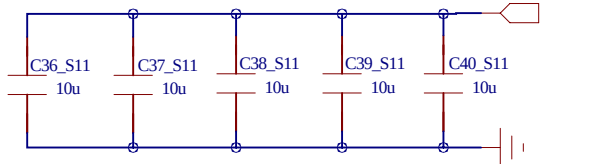
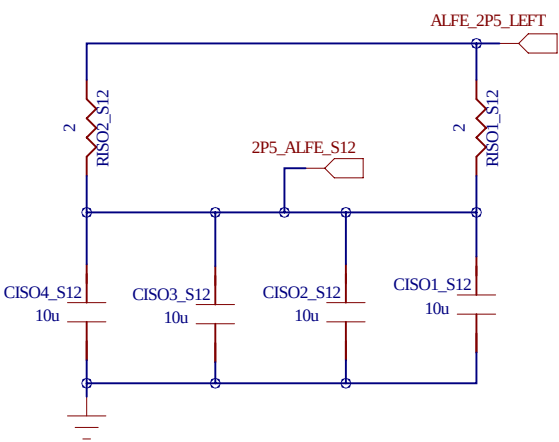
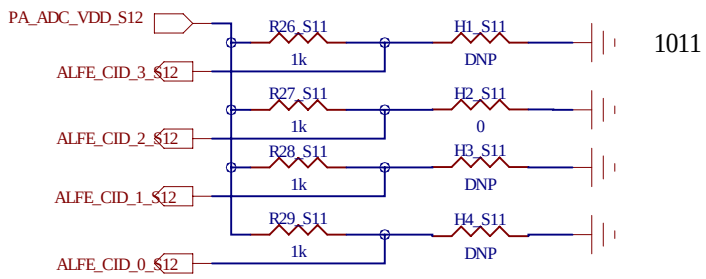
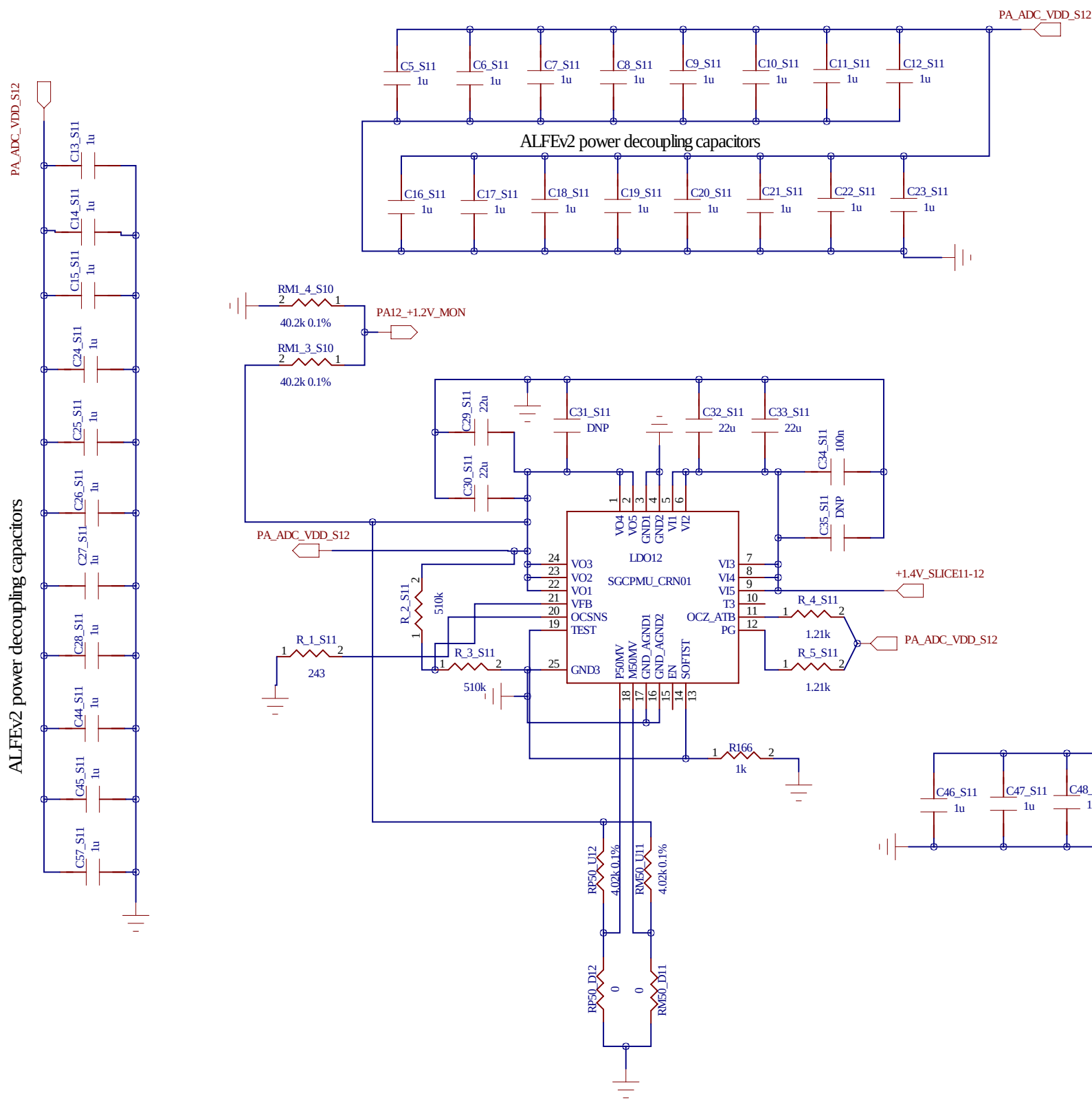
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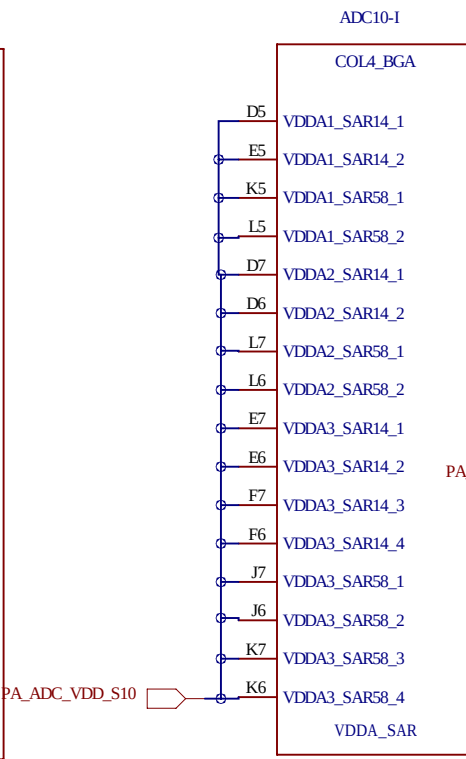
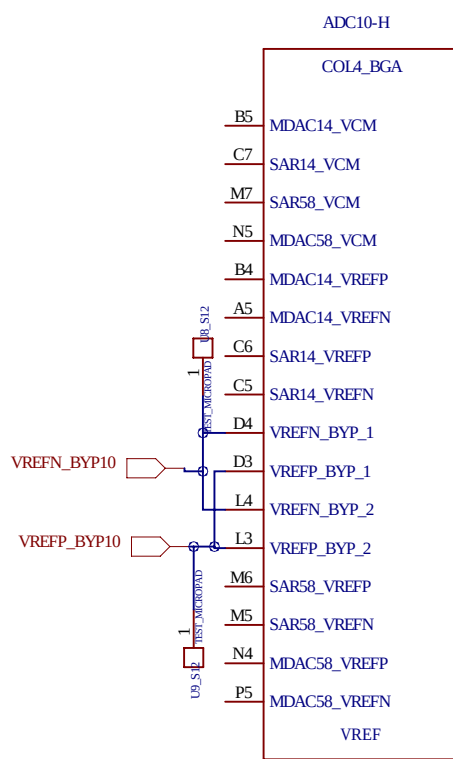
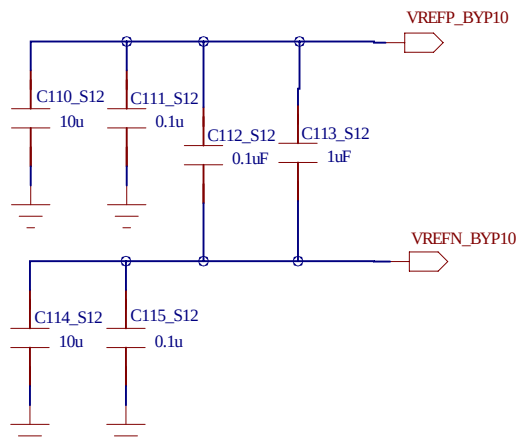
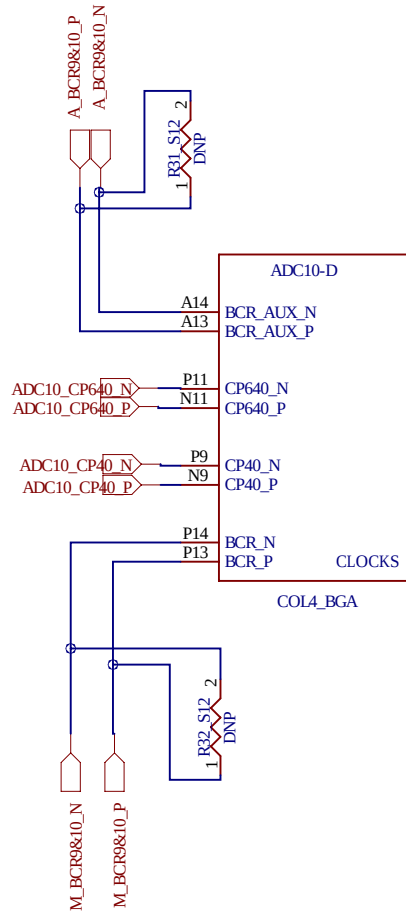
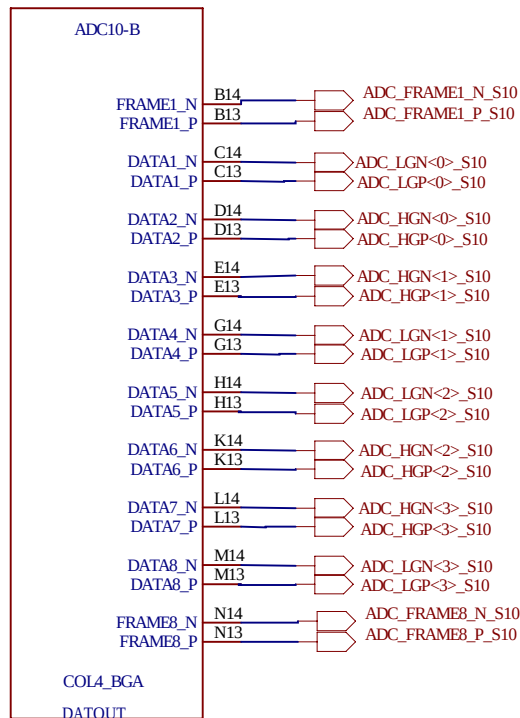
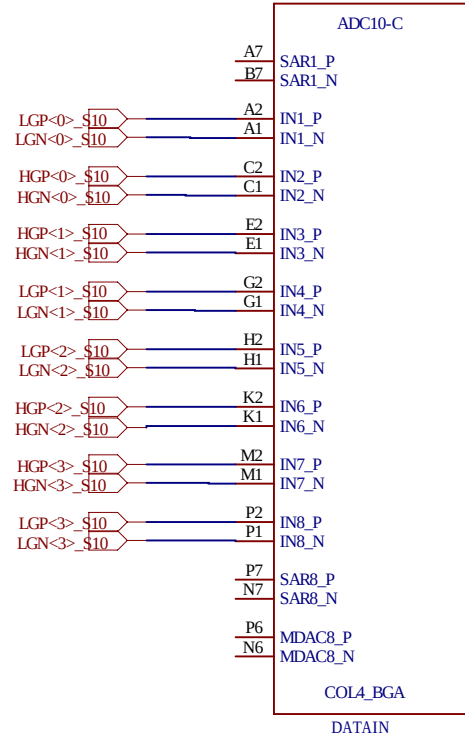
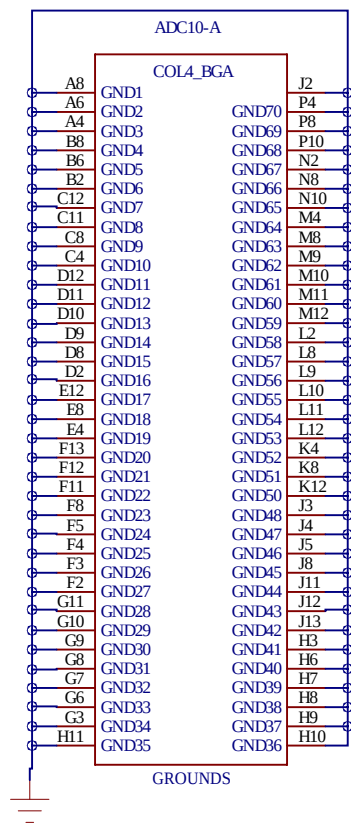
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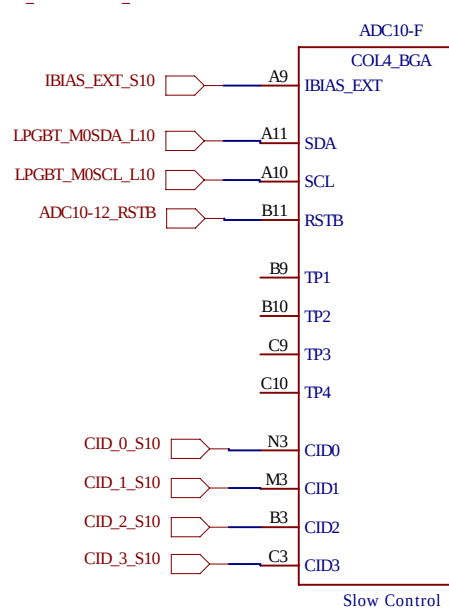
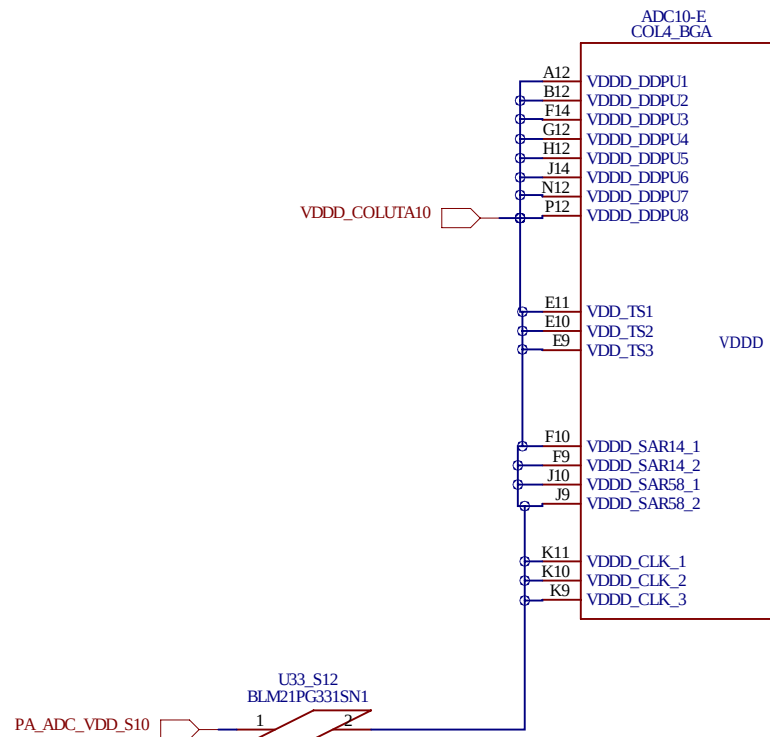
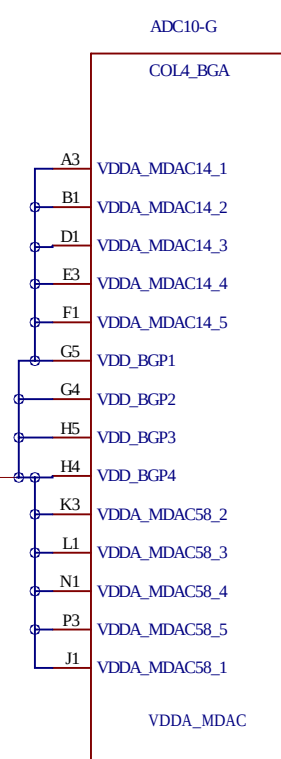
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PA_ADC_VDD_S10



Slow Control

COMPANY: Nevis Laboratories of Columbia University

TITLE: FEB2 prototype v2.0

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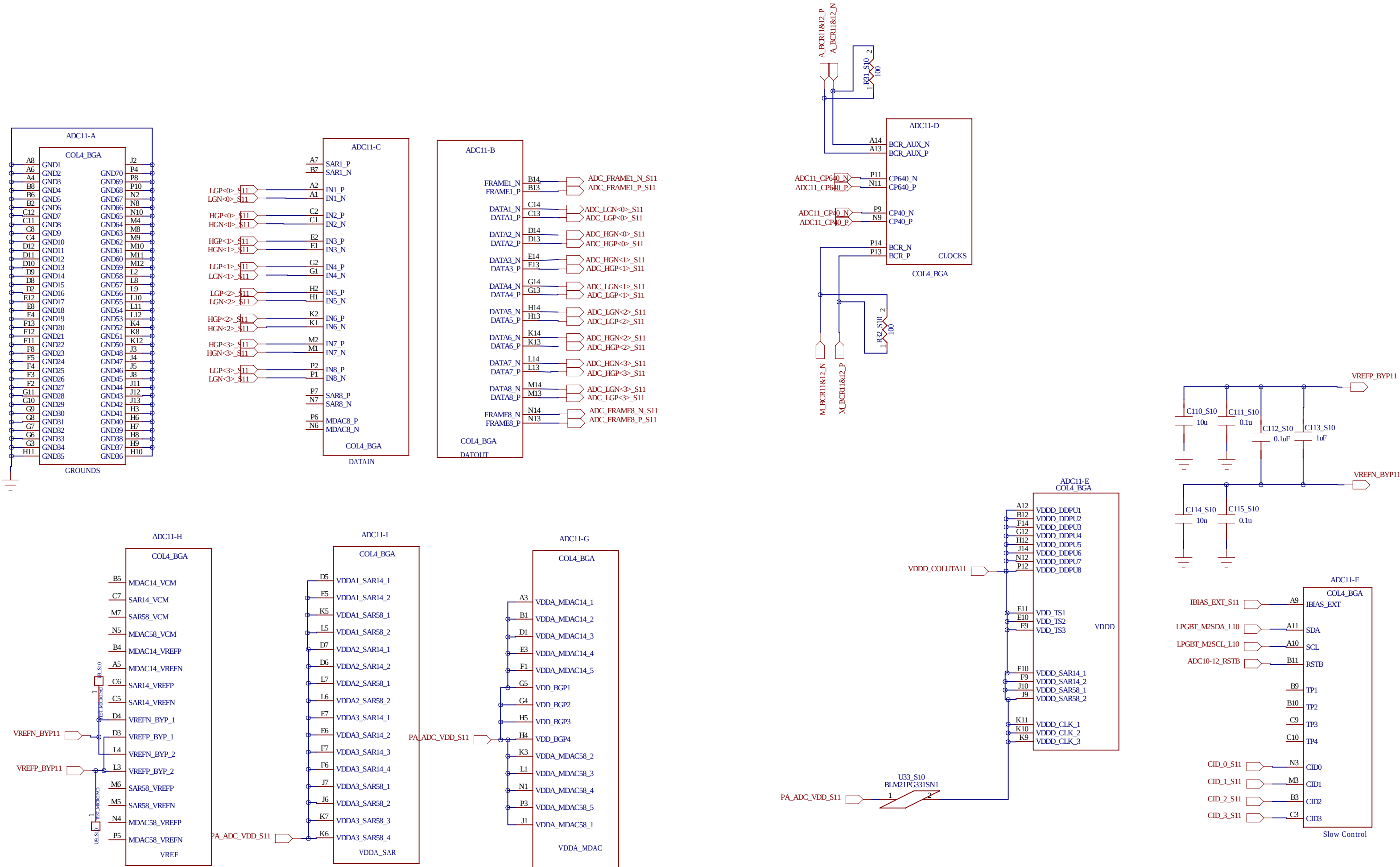
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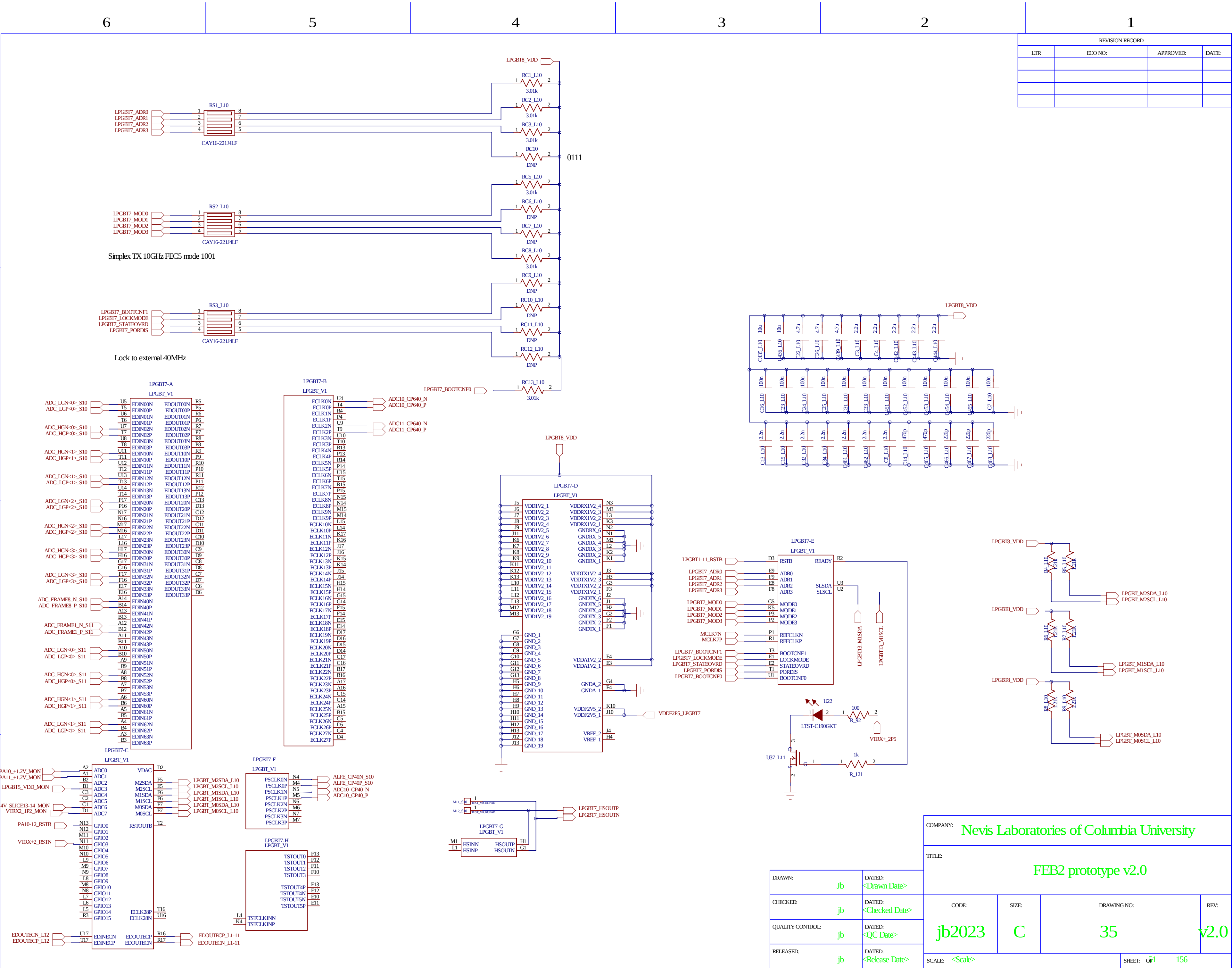
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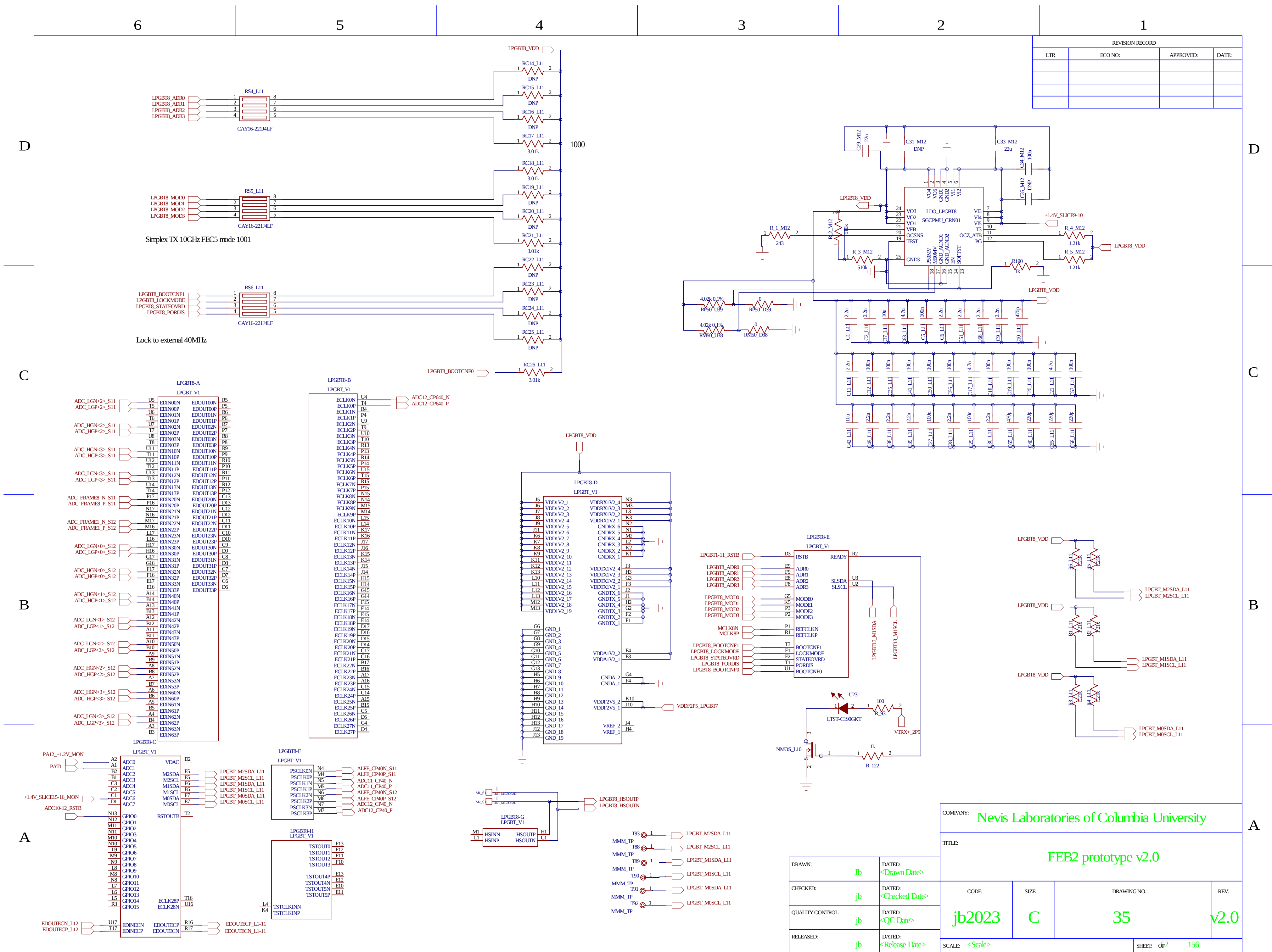
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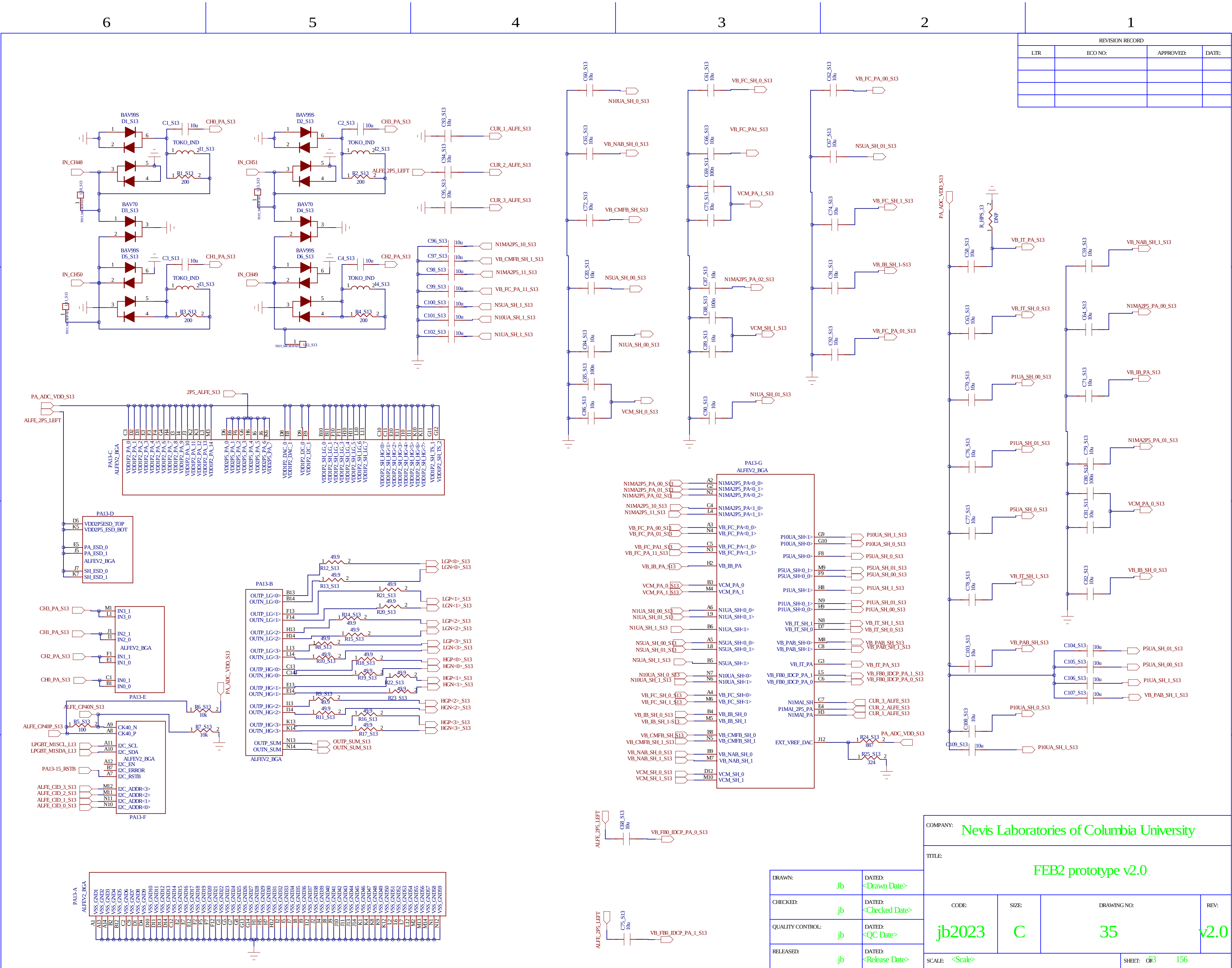
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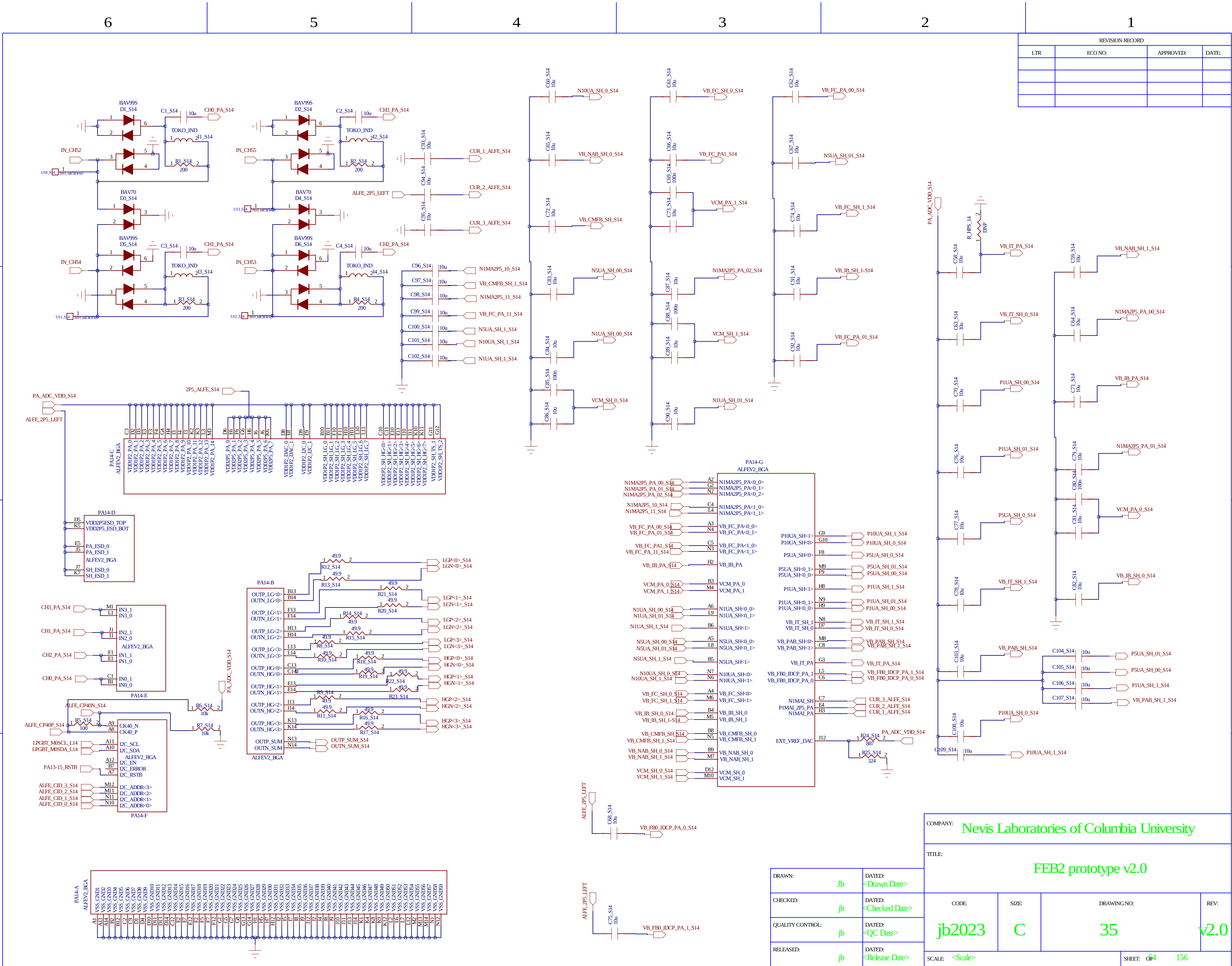
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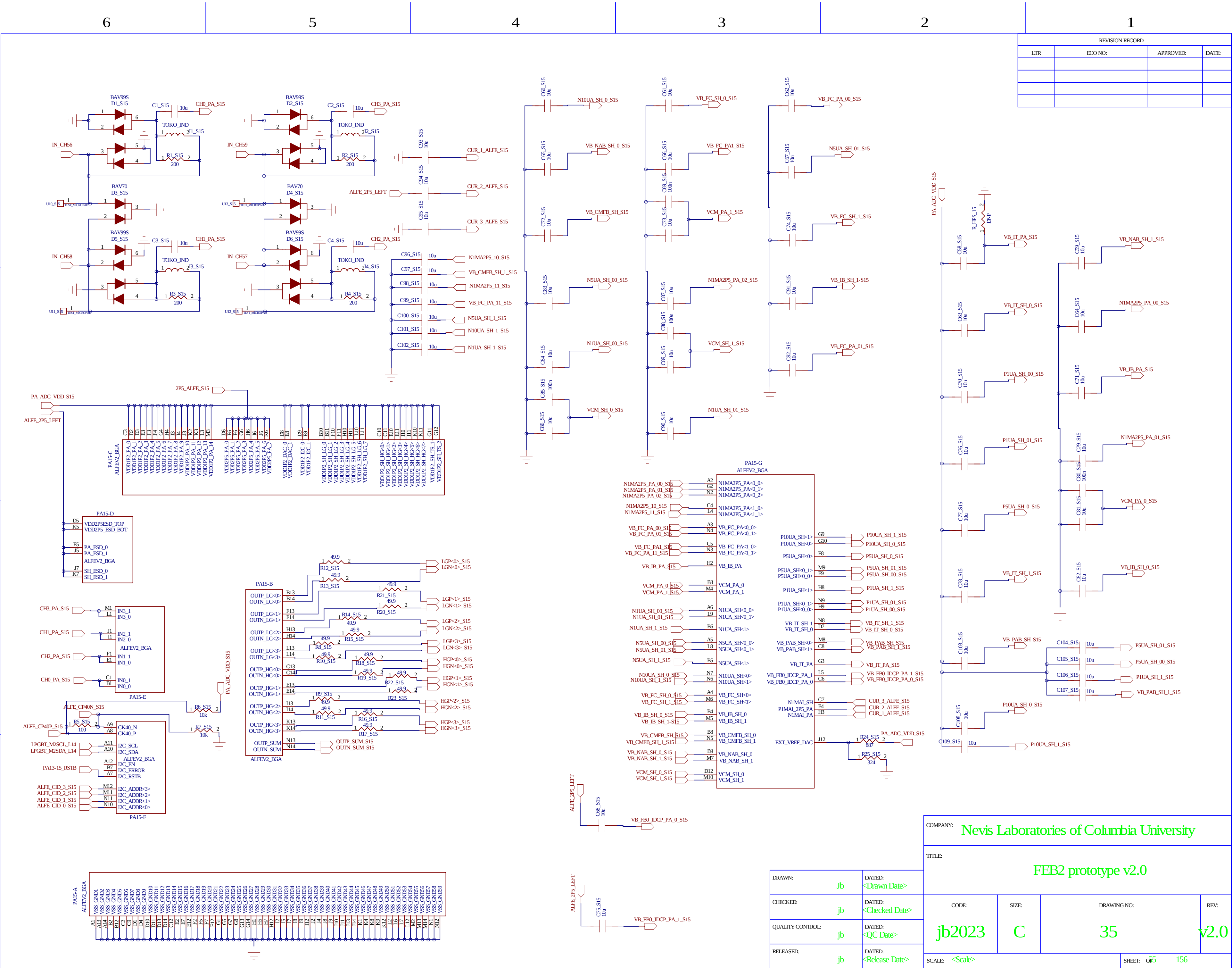
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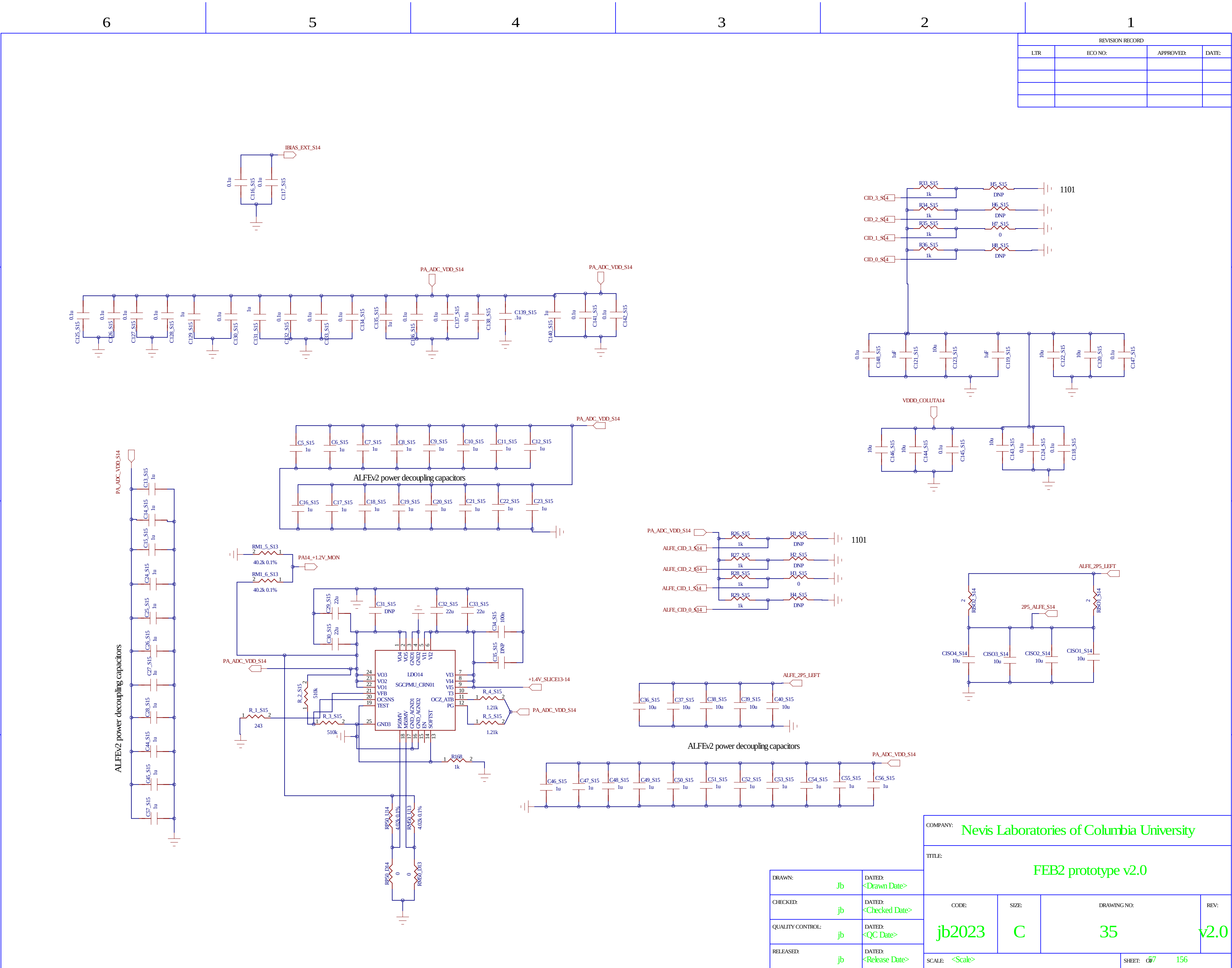
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COMPANY: **Nevis Laboratories of Columbia University**

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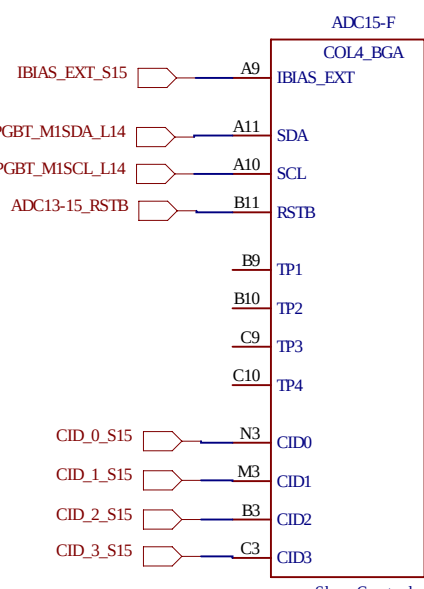
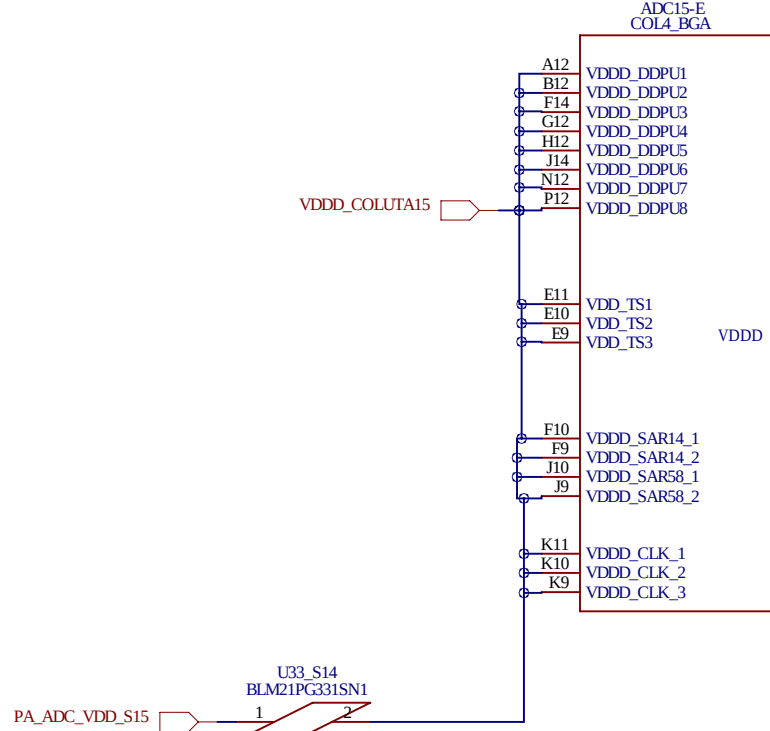
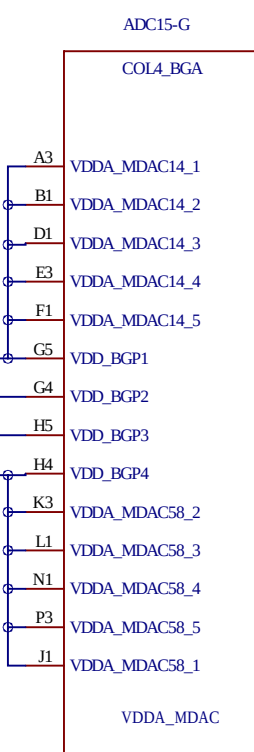
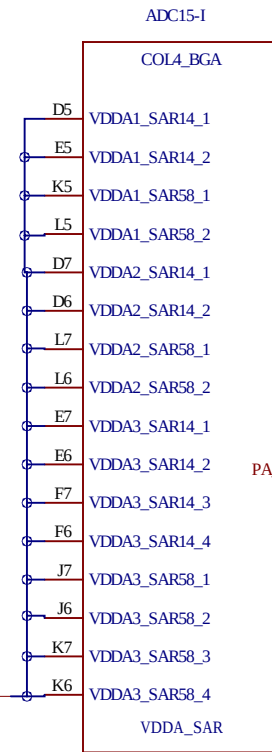
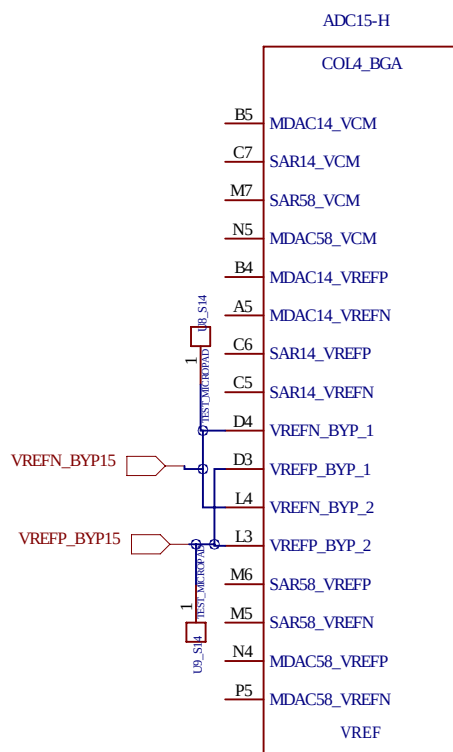
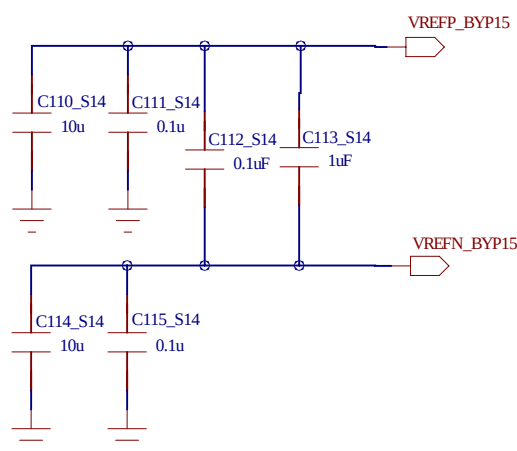
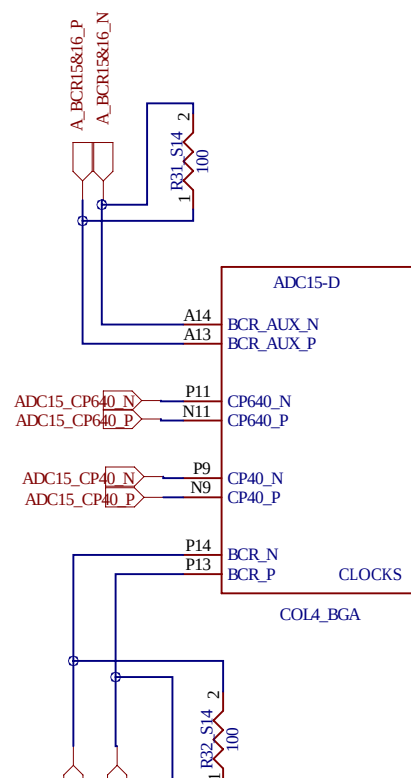
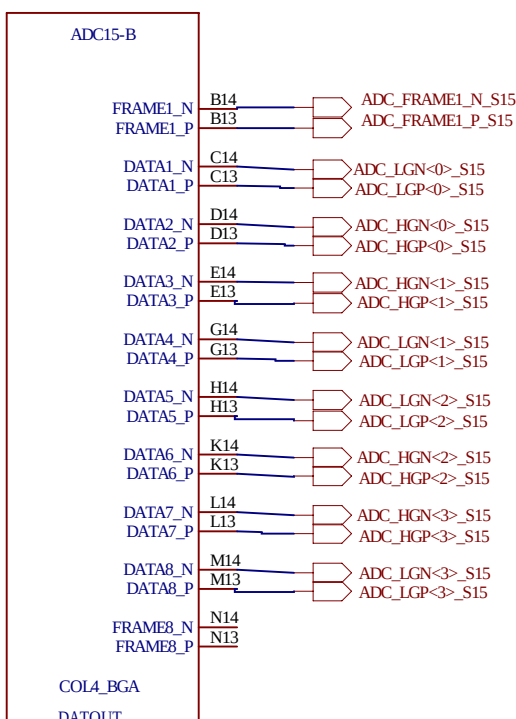
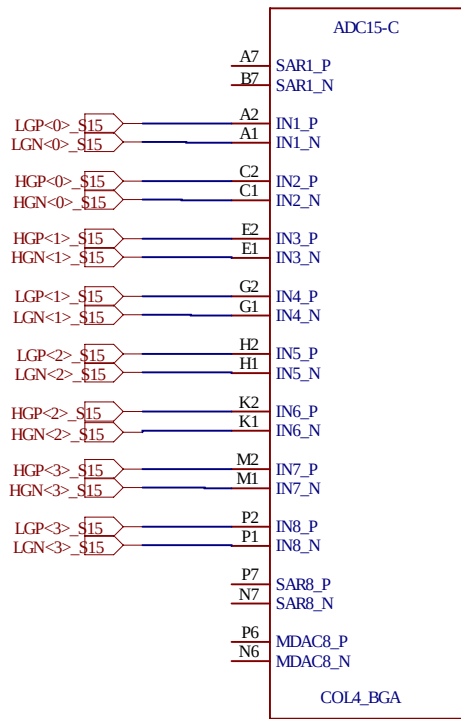
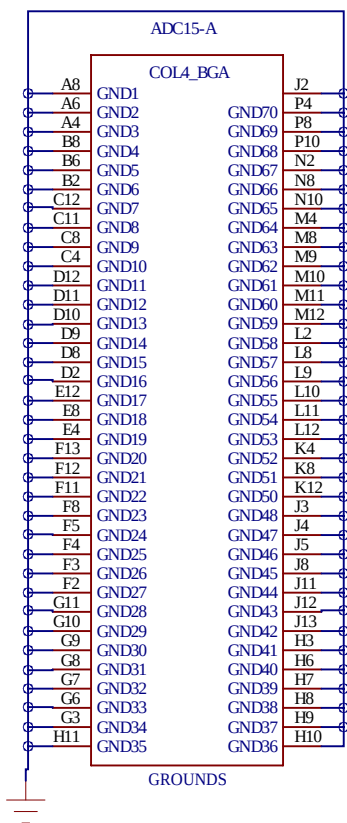
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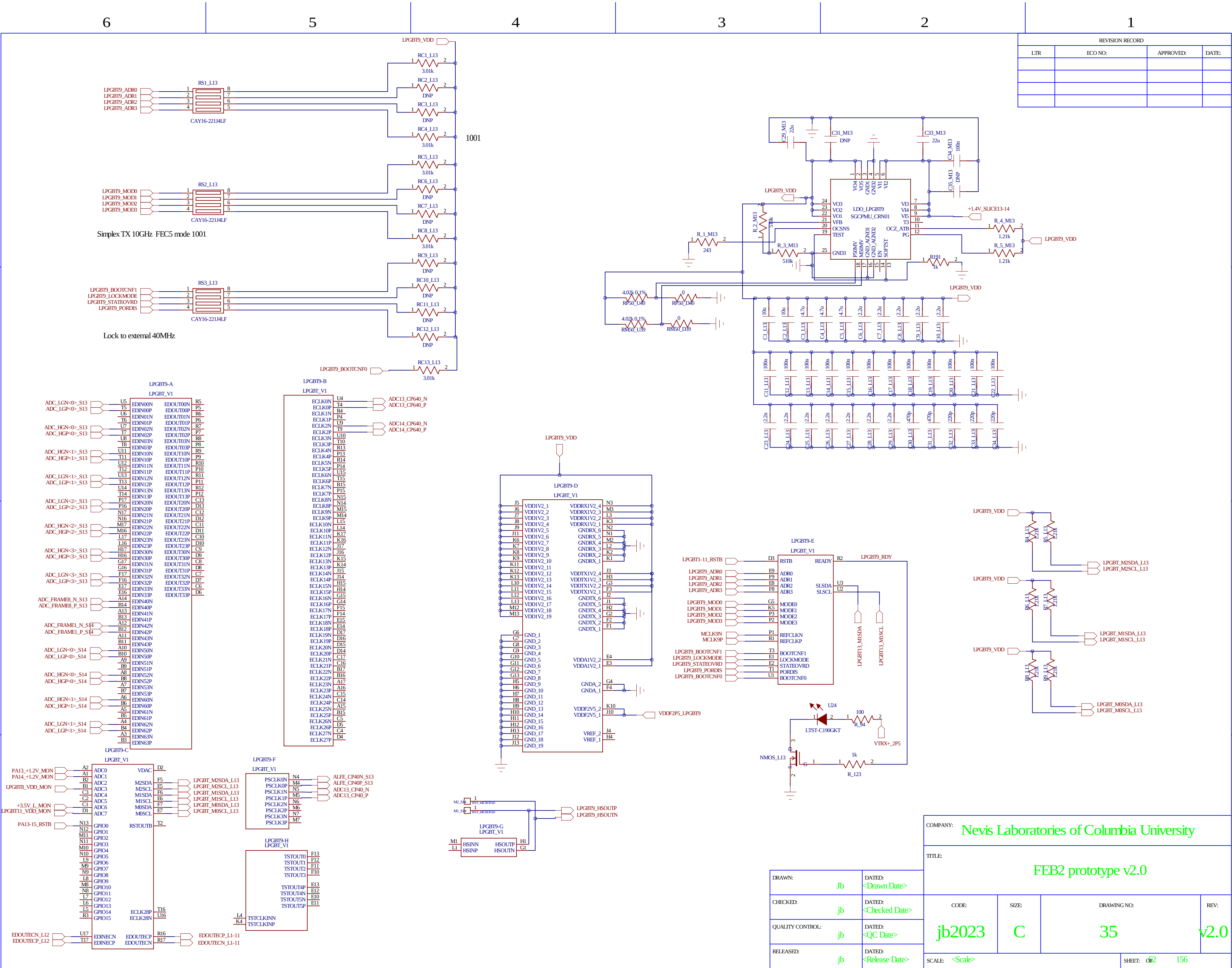
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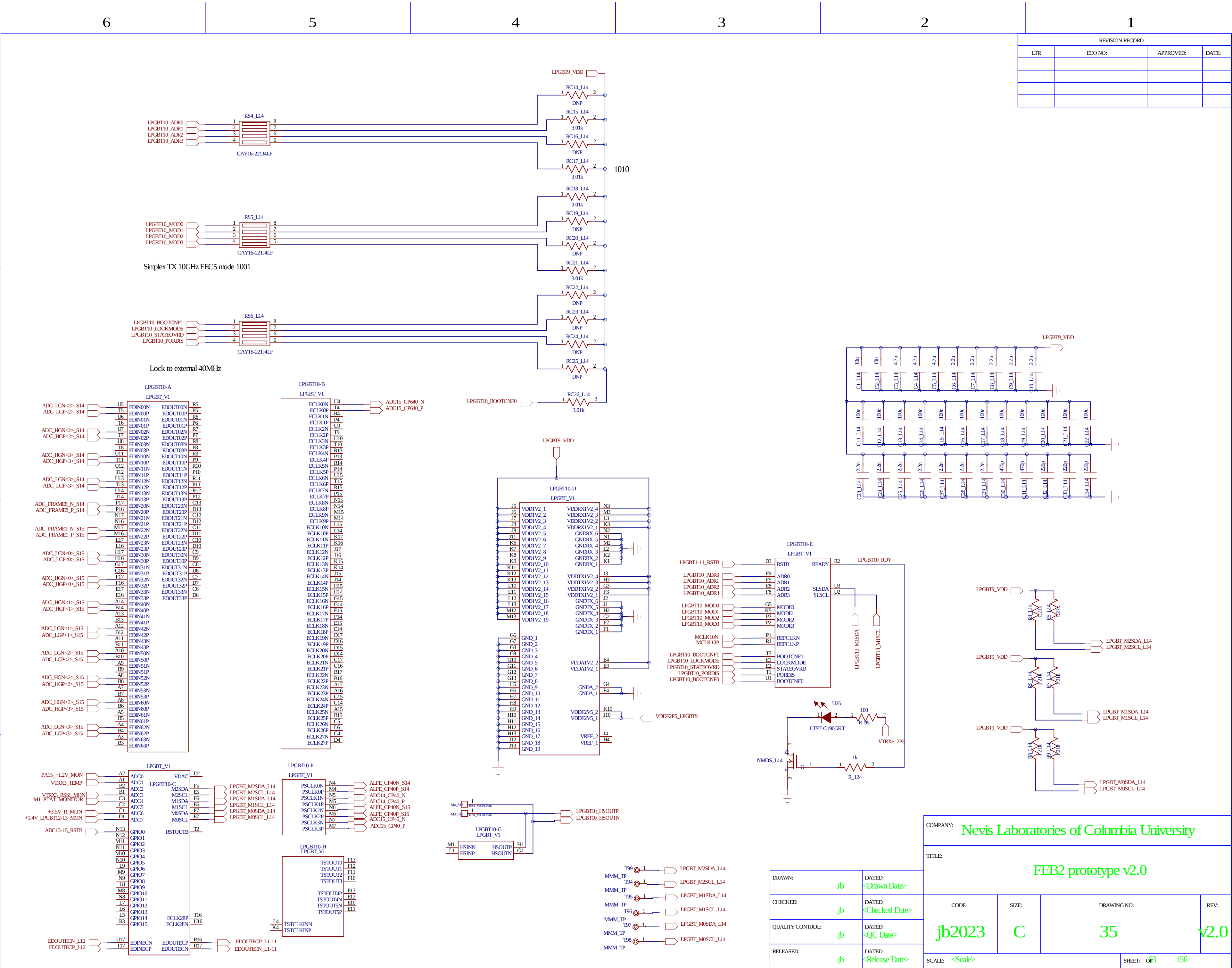
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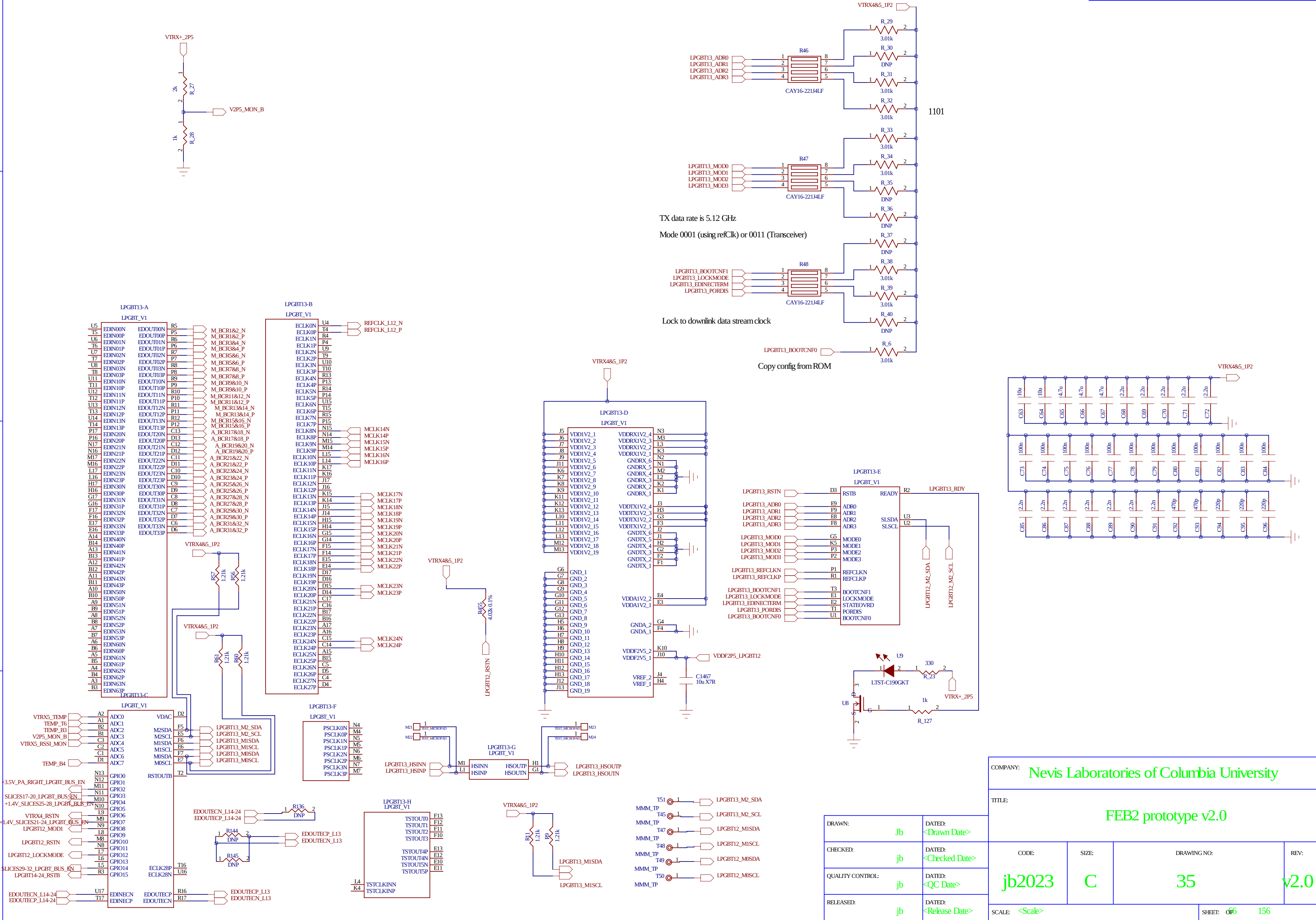
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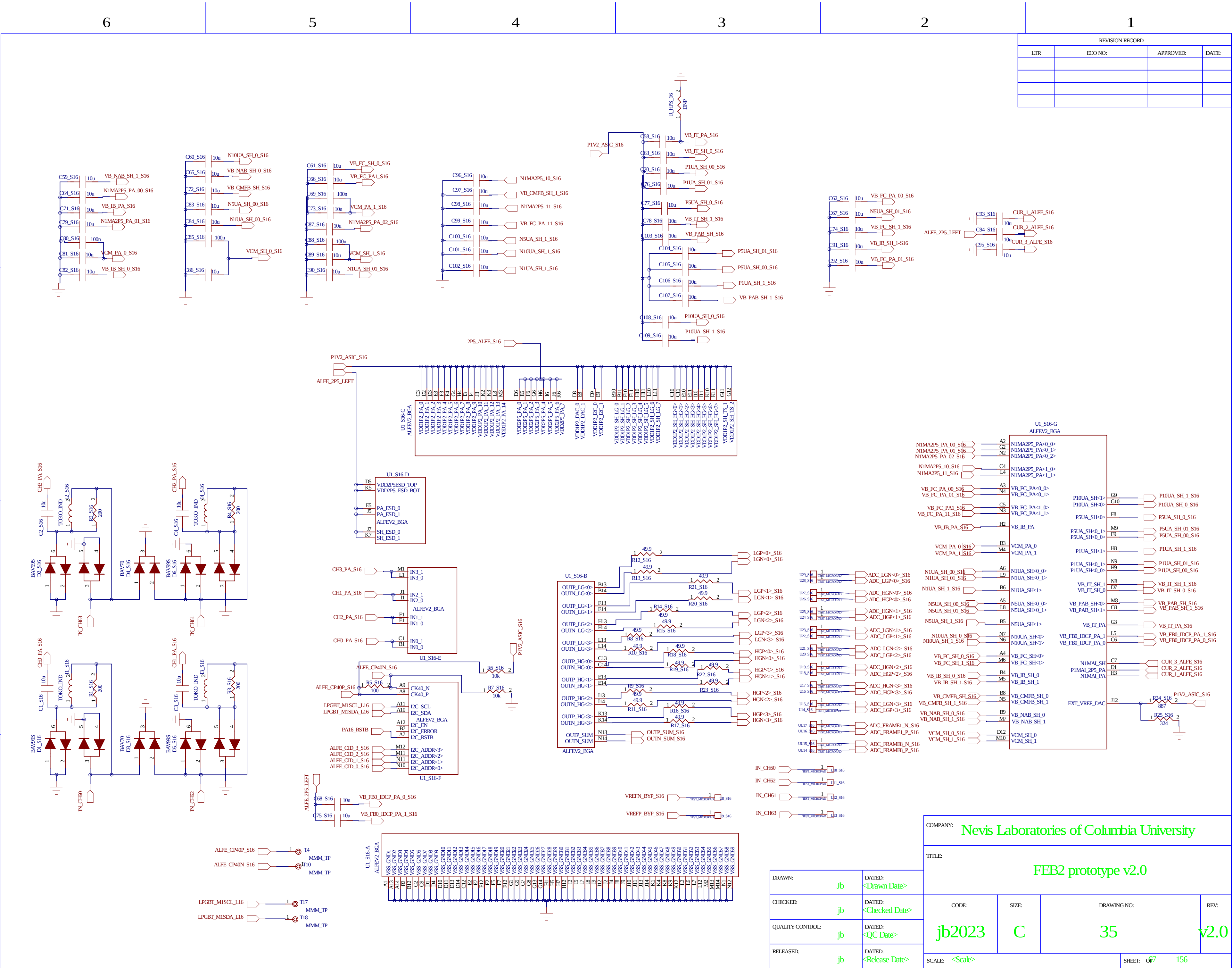
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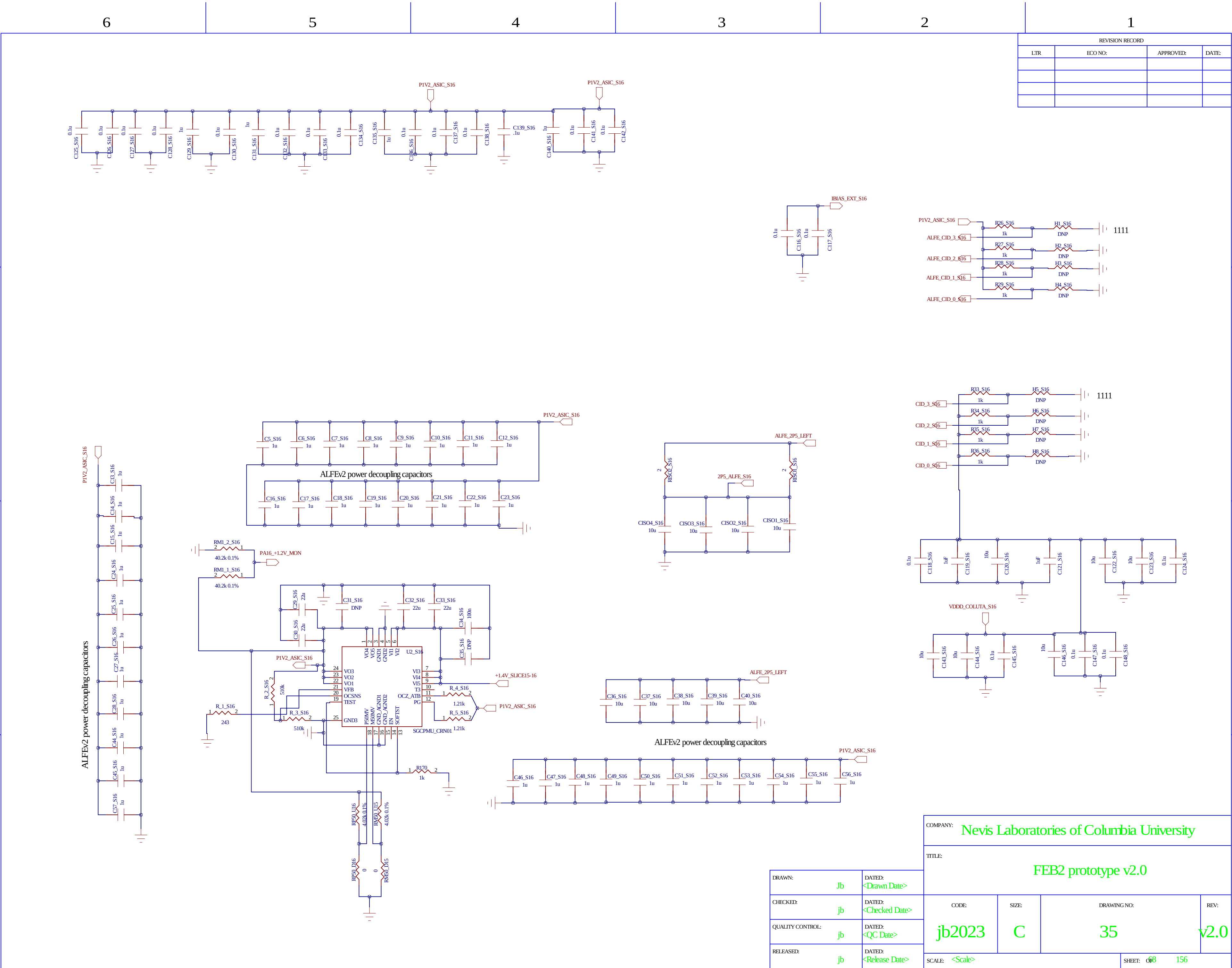


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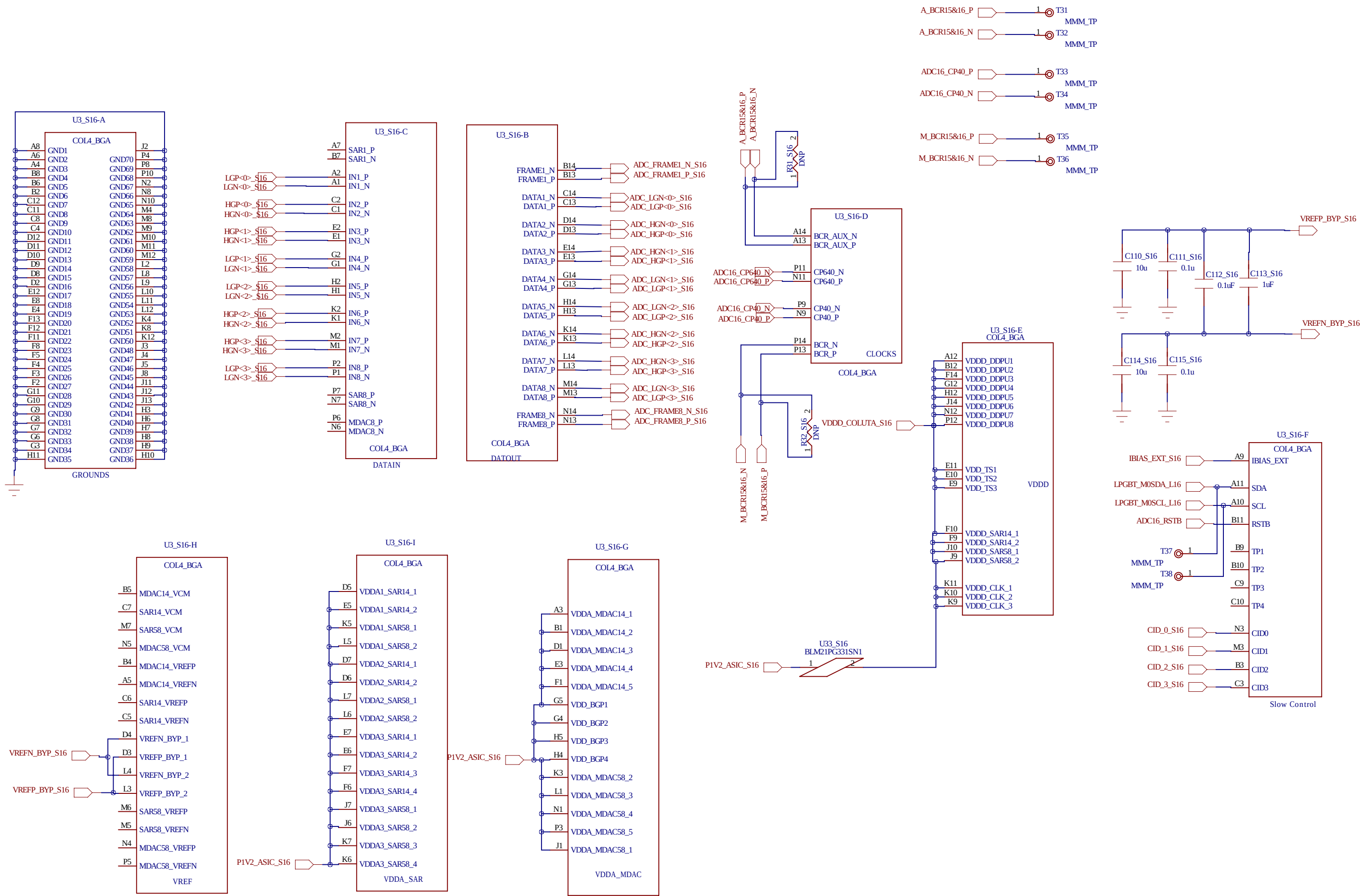
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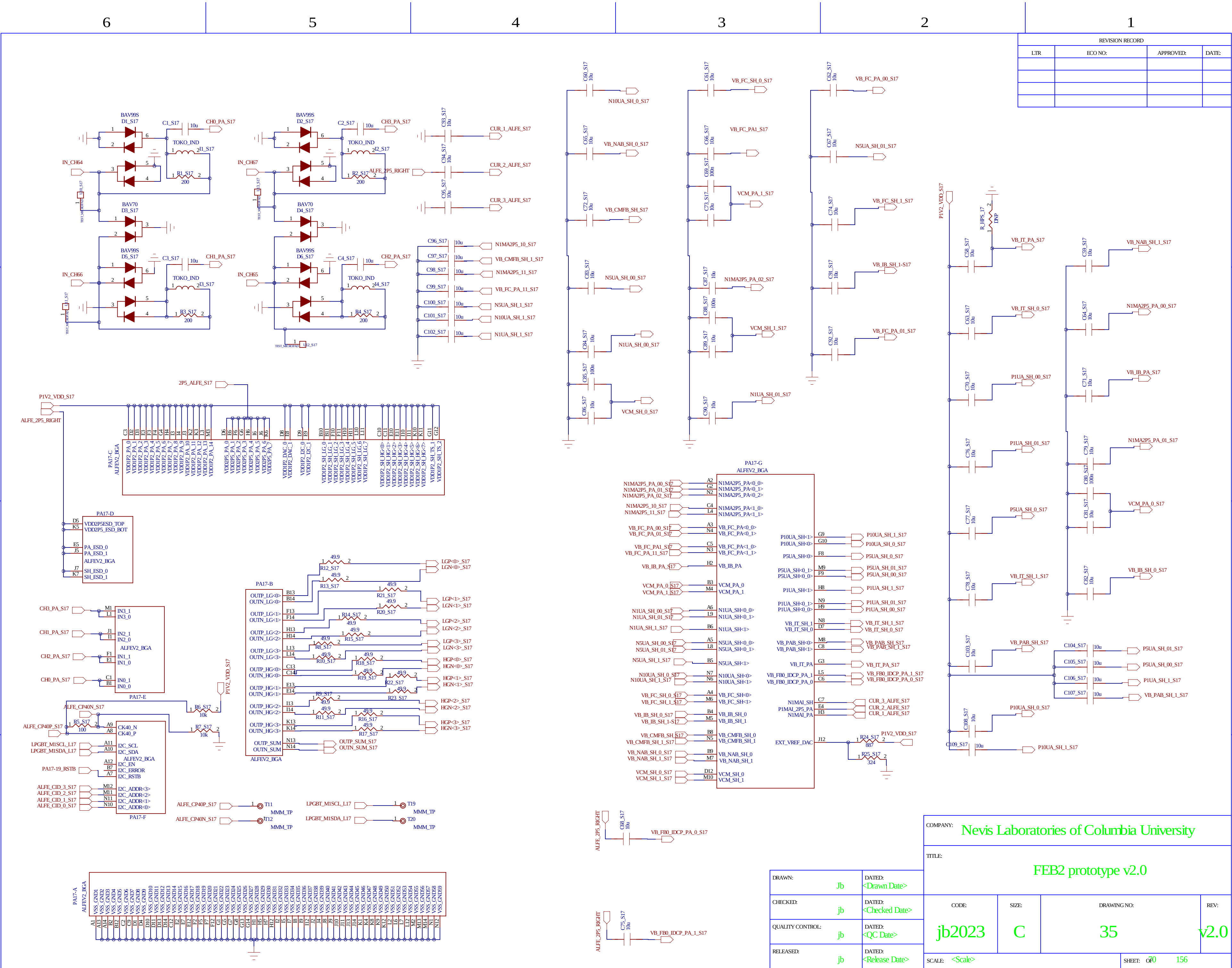
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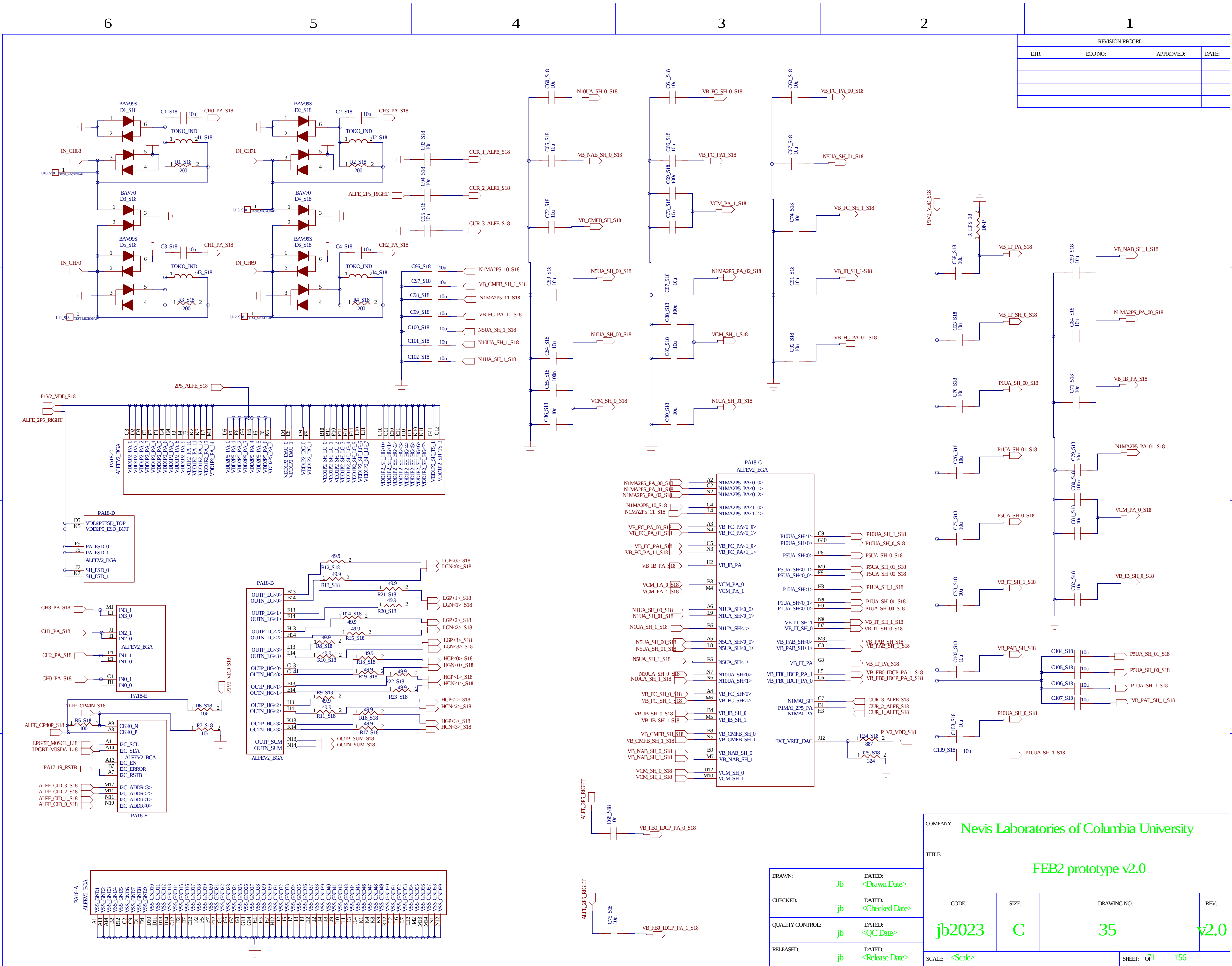
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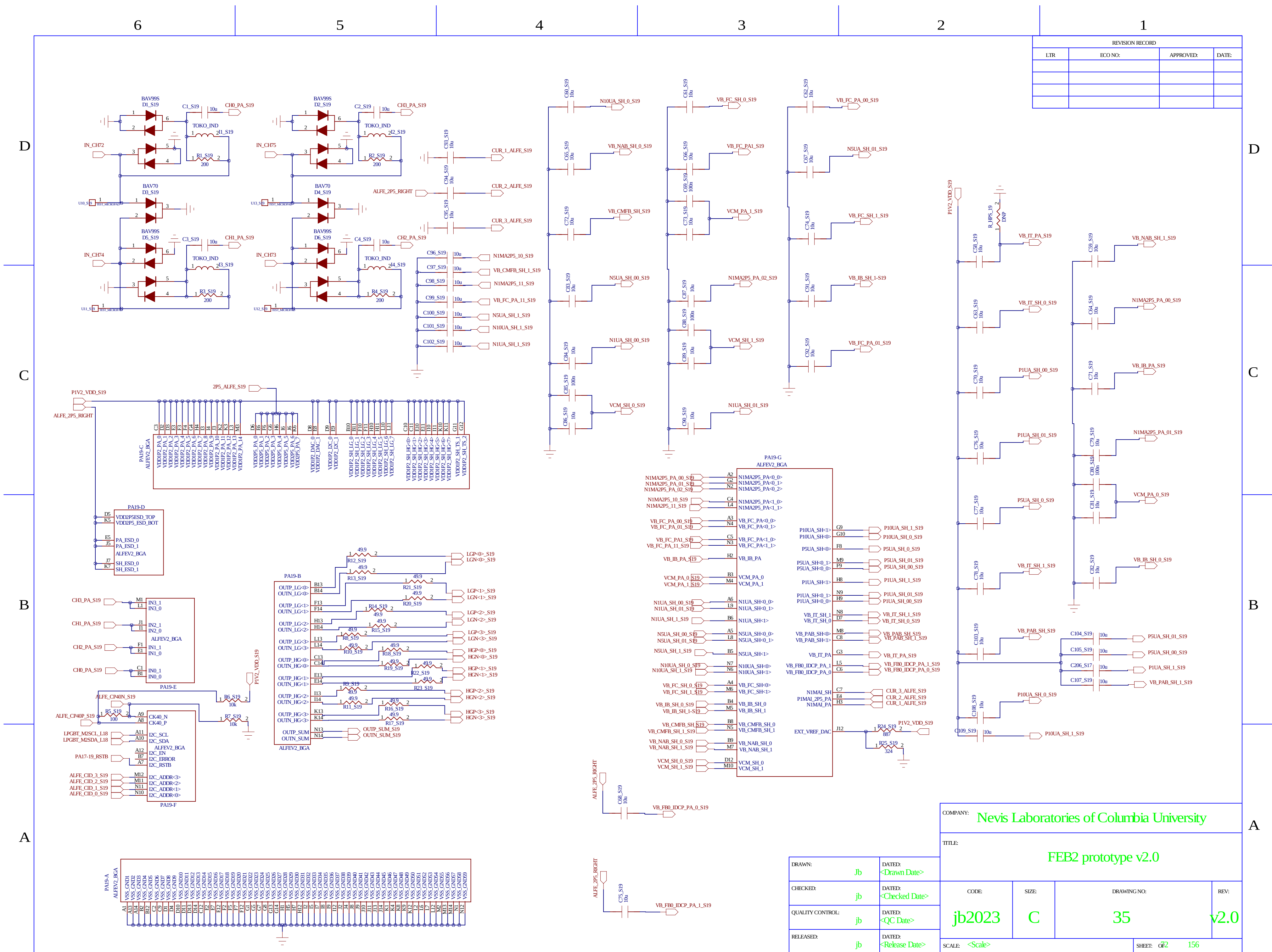
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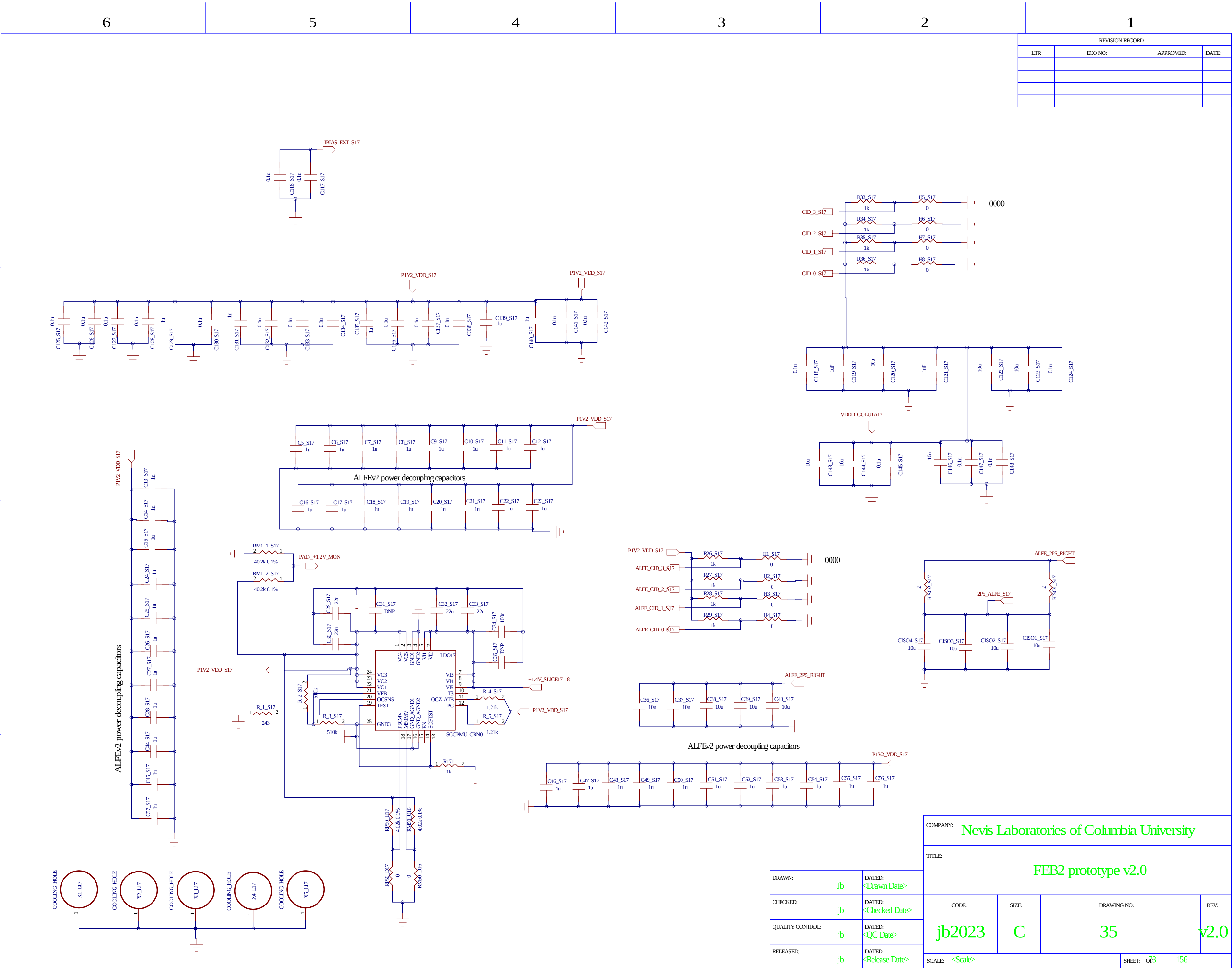


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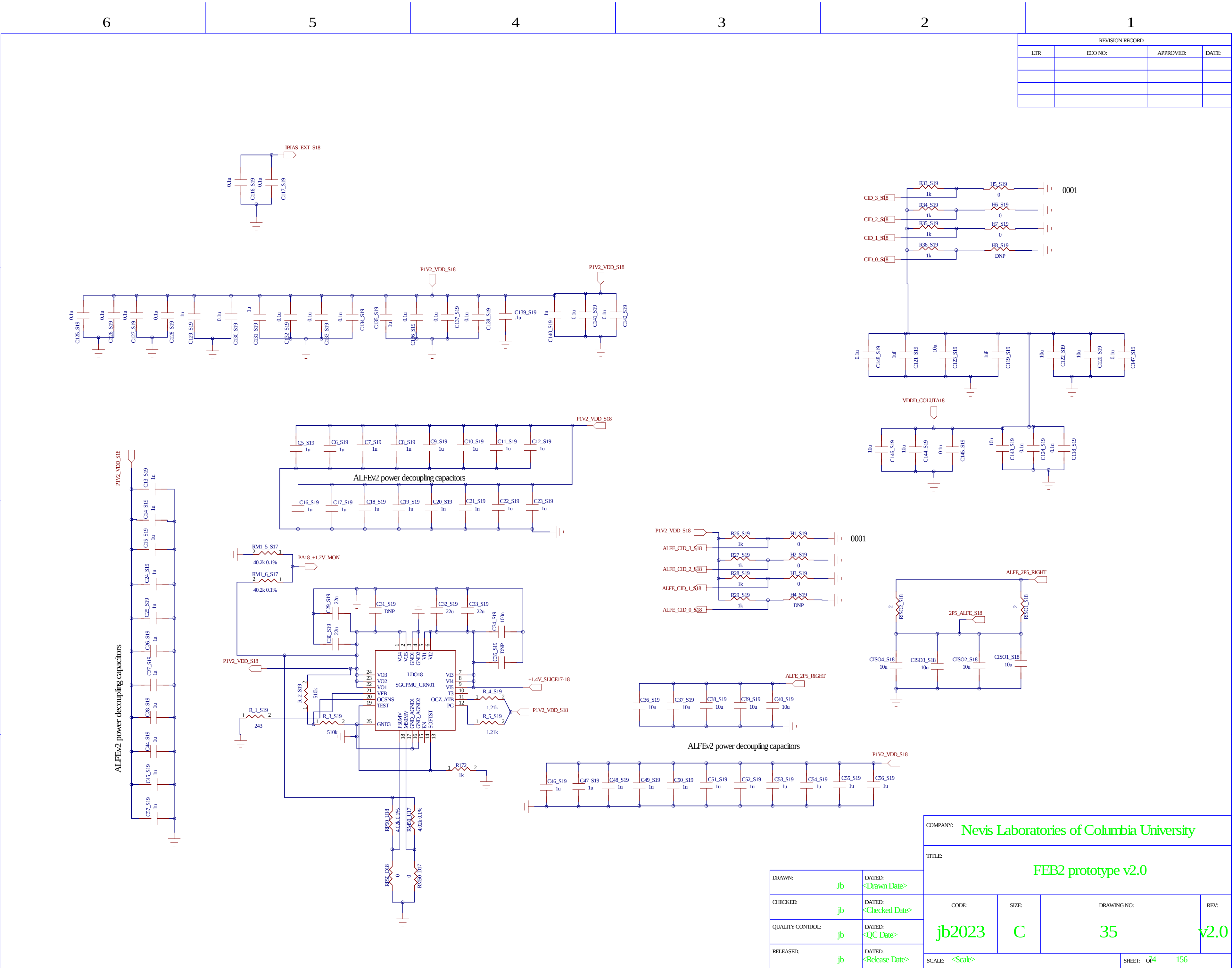




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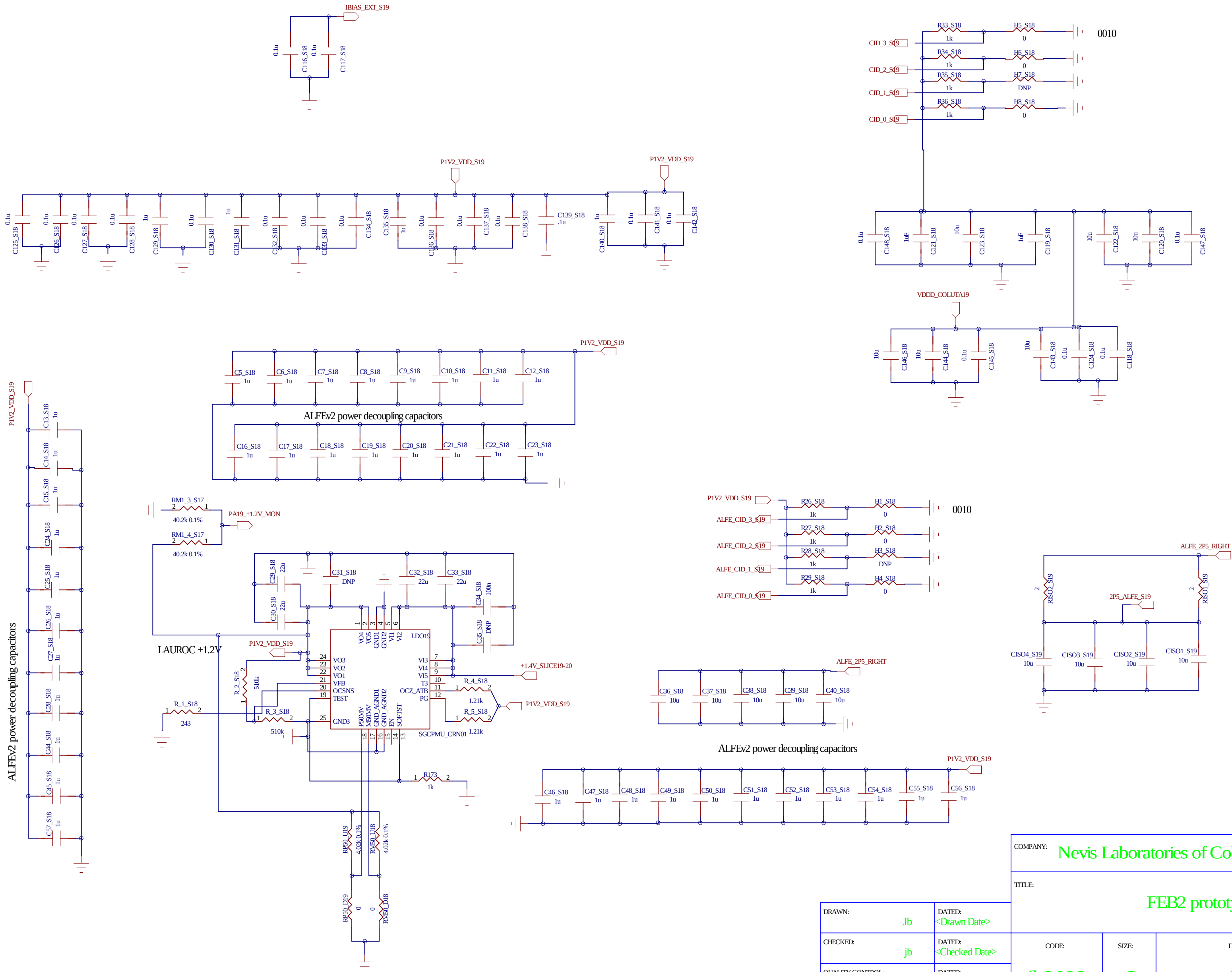
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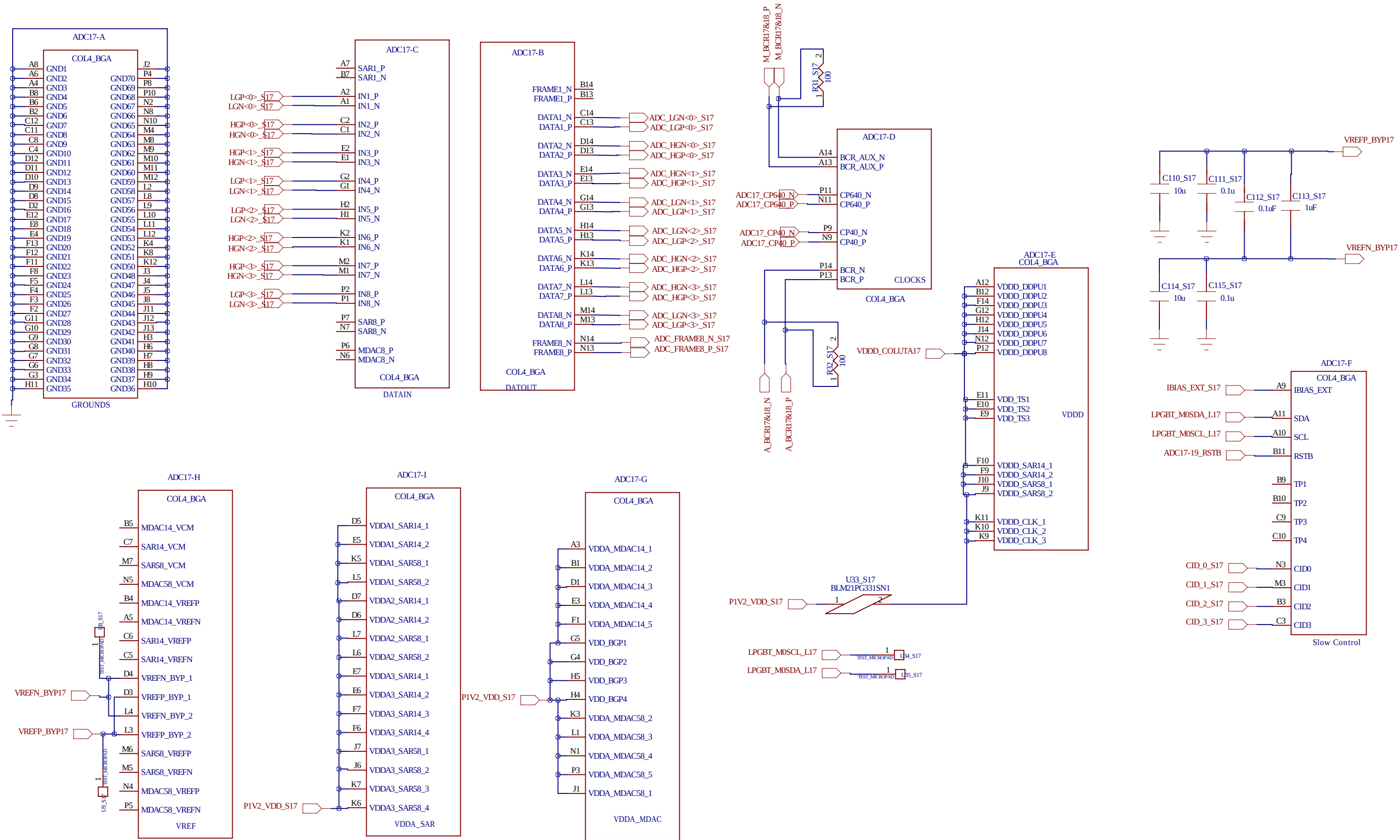
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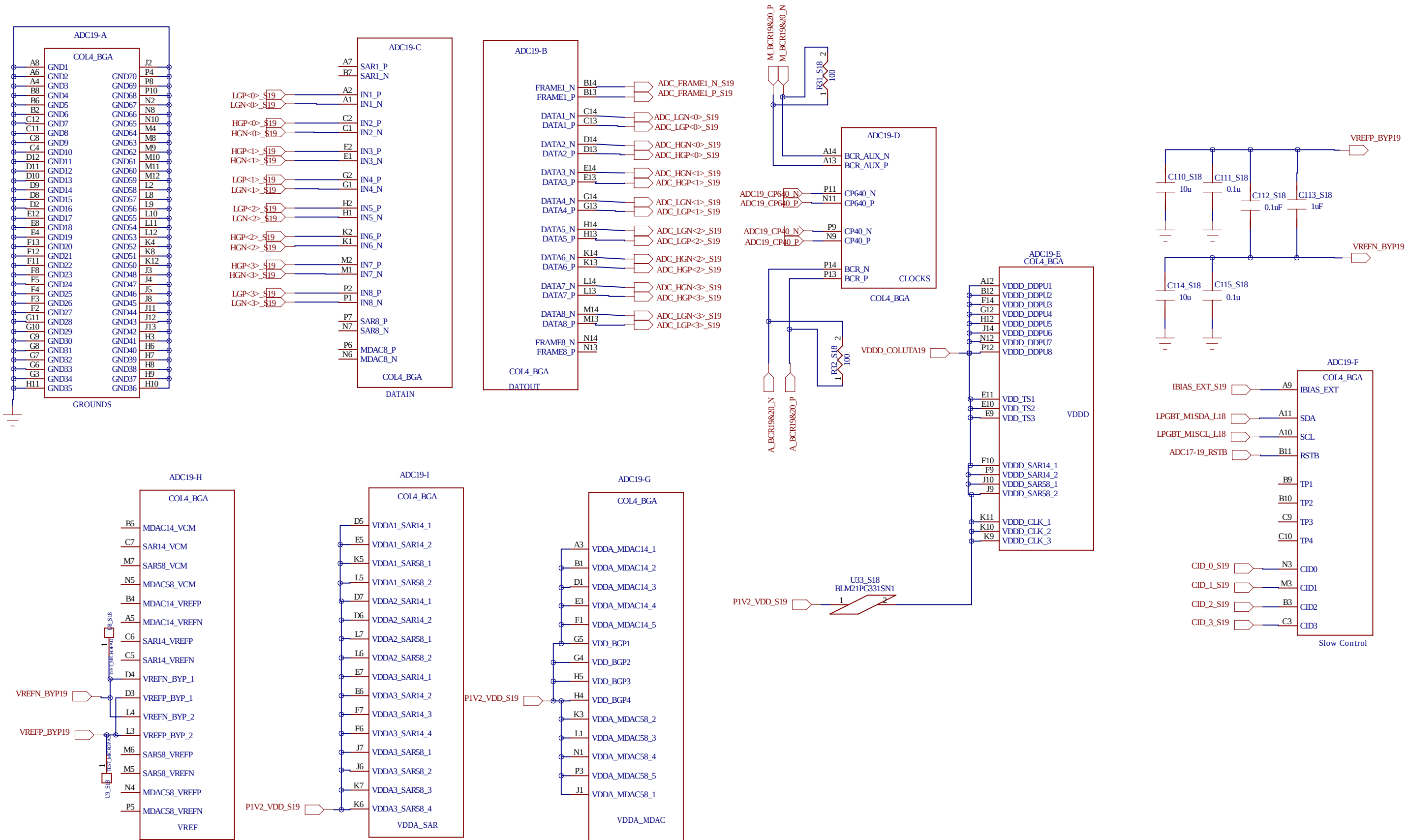
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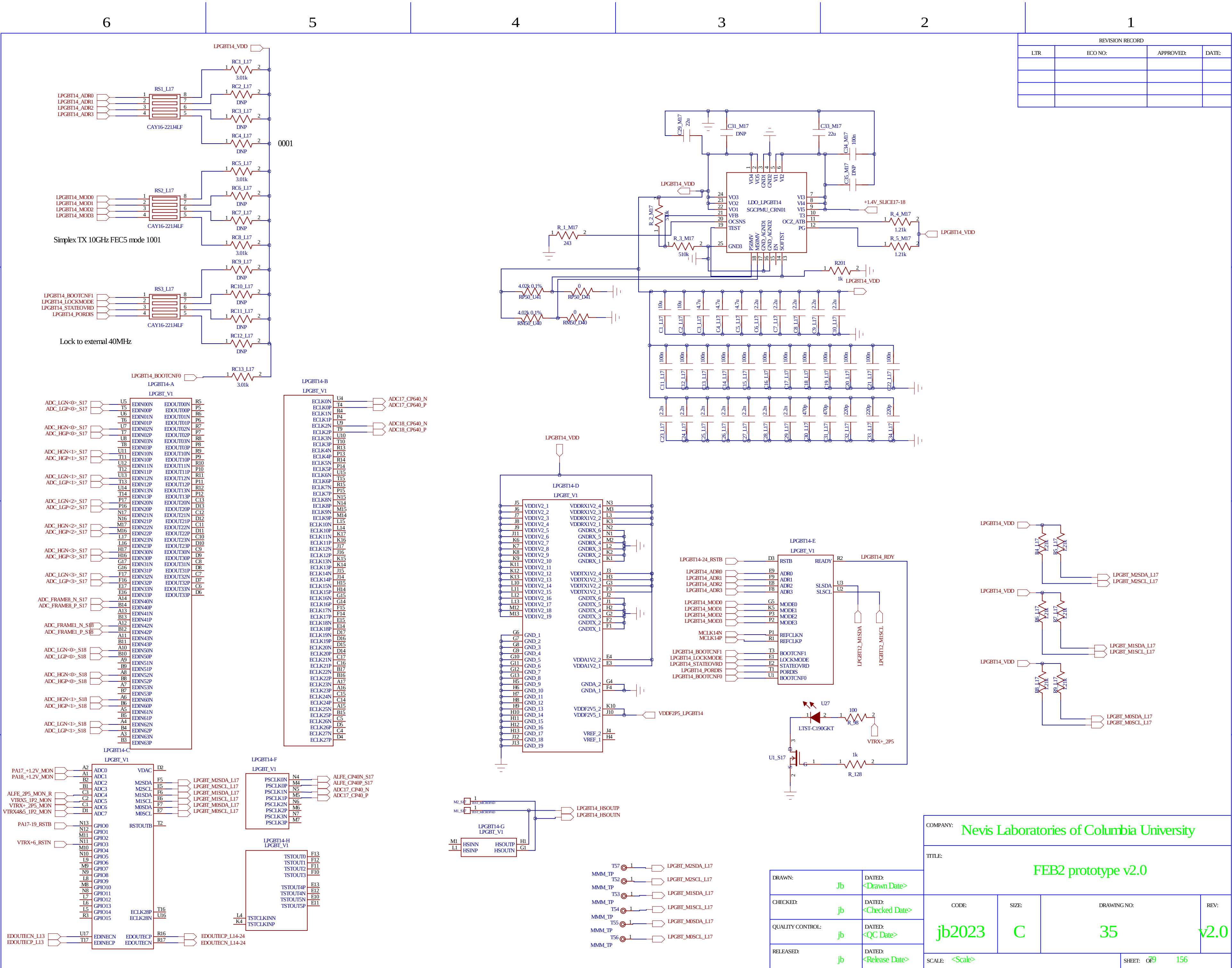
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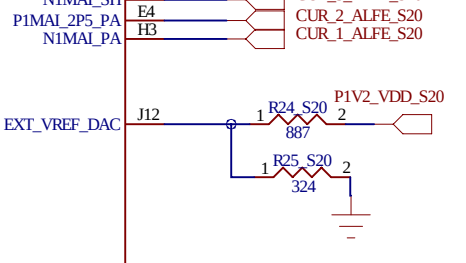
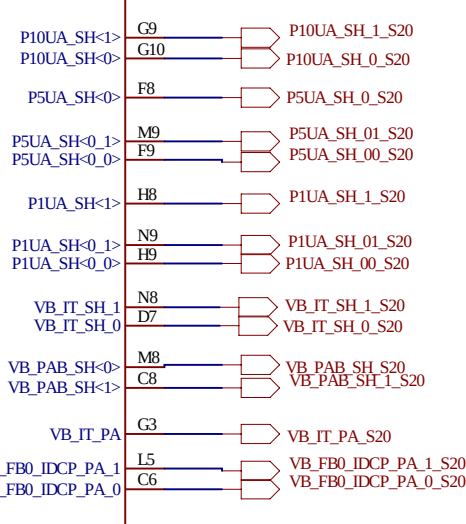
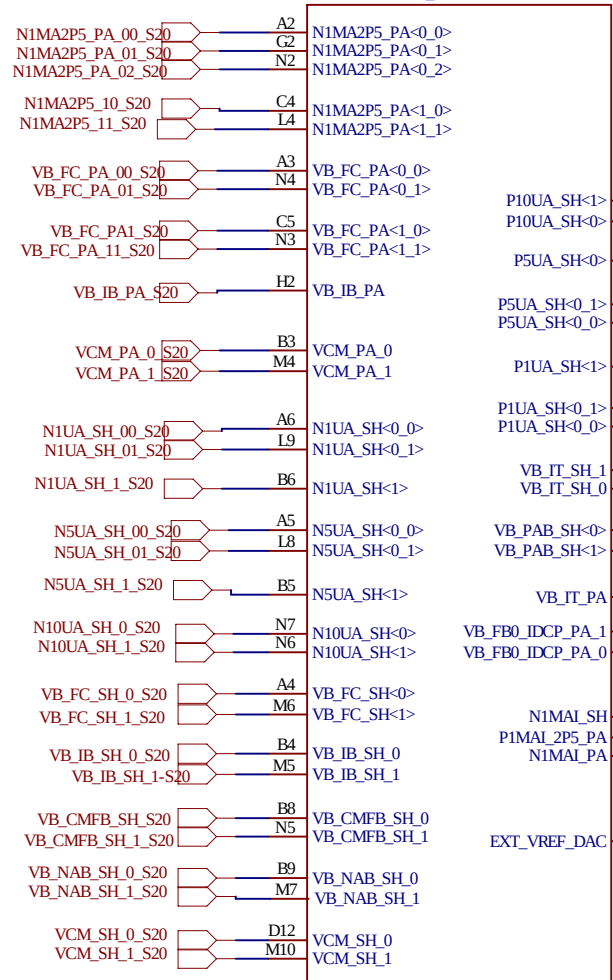
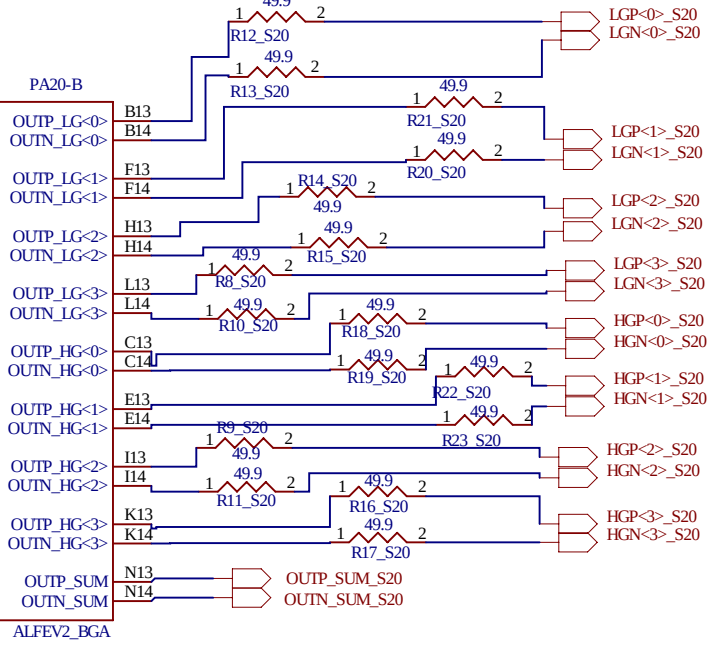
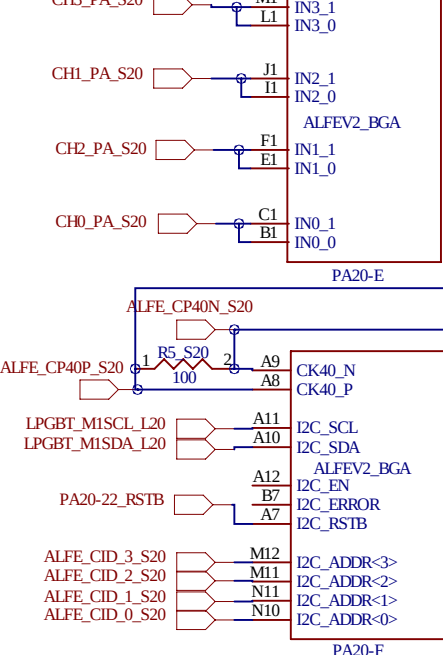
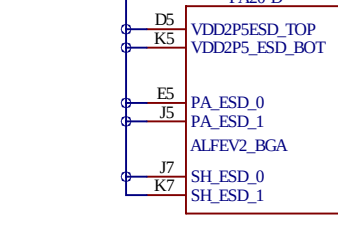
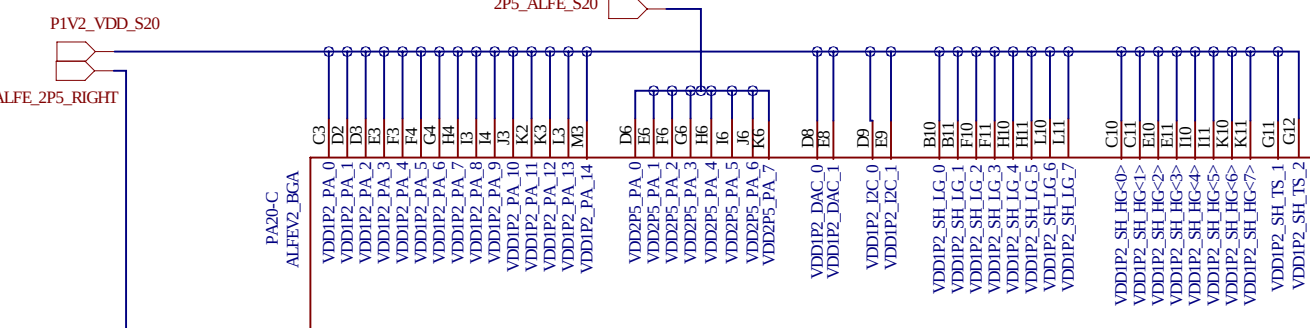
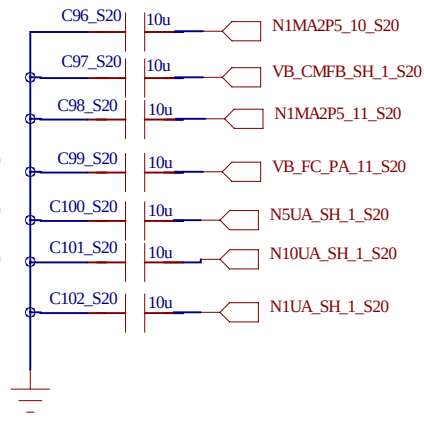
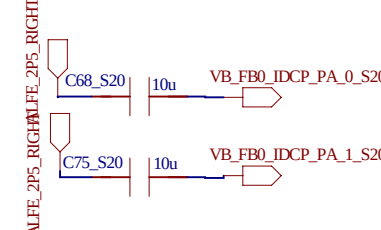
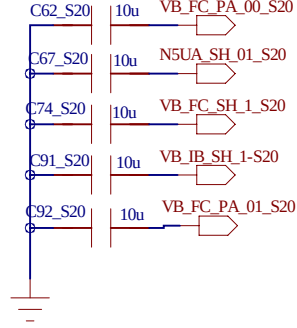
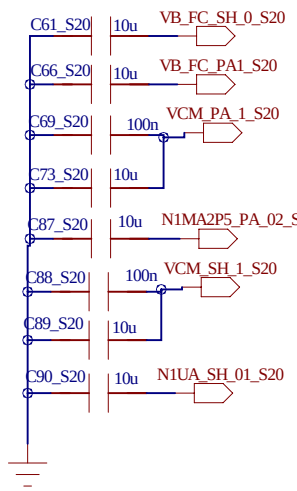
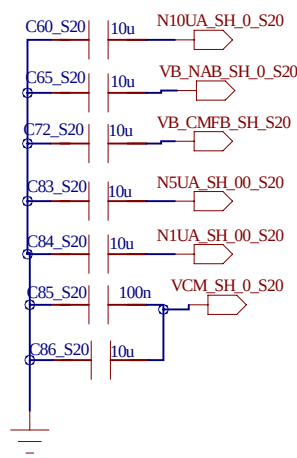
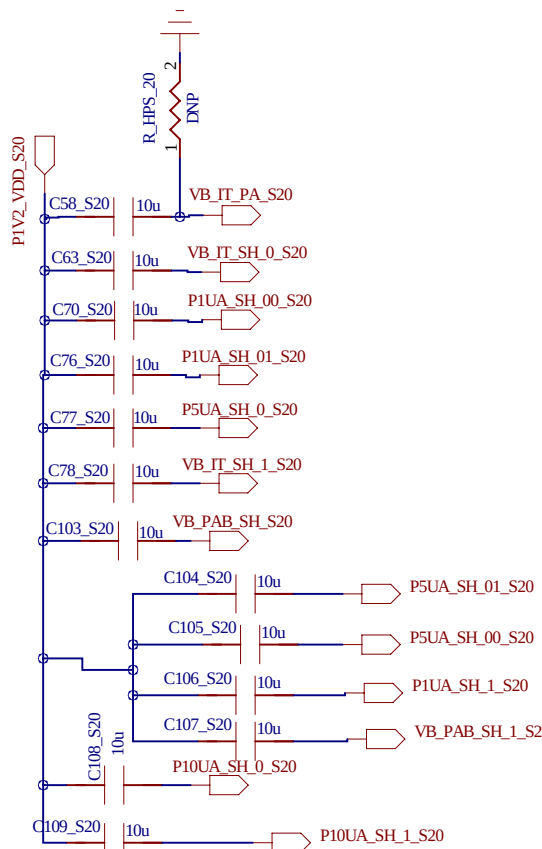
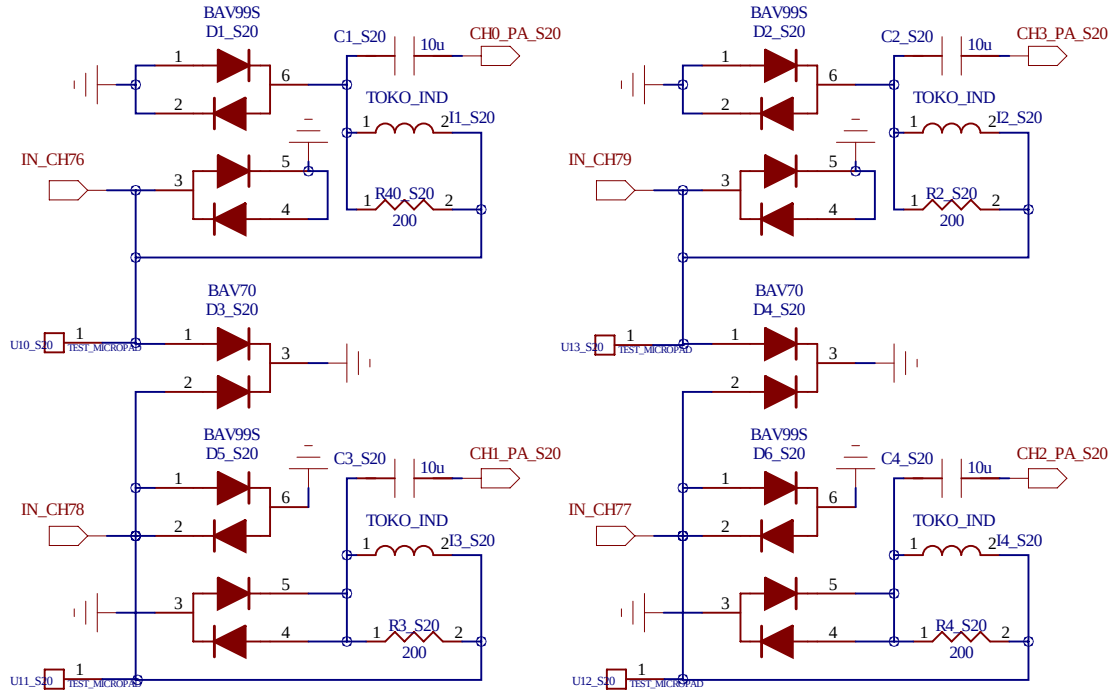
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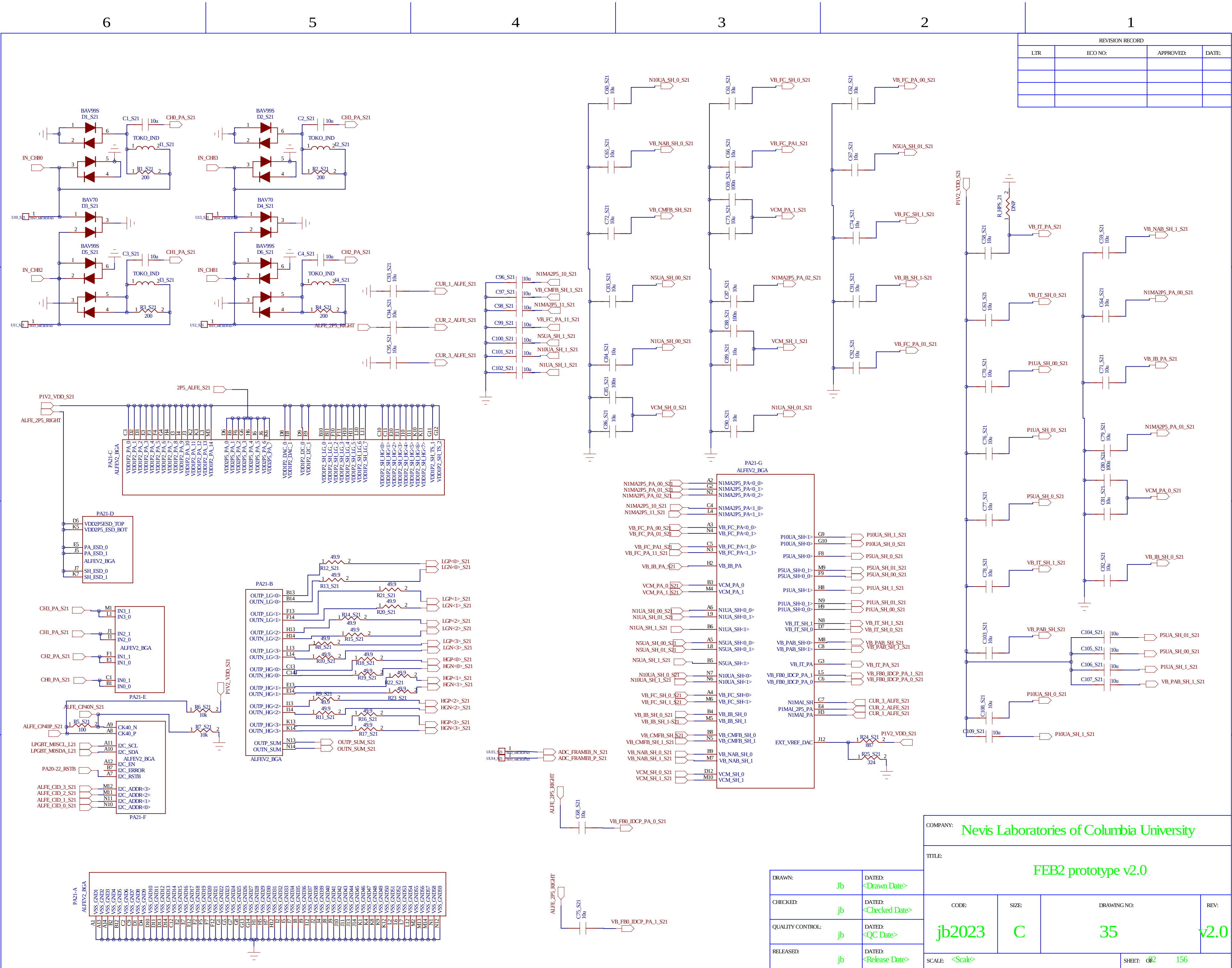
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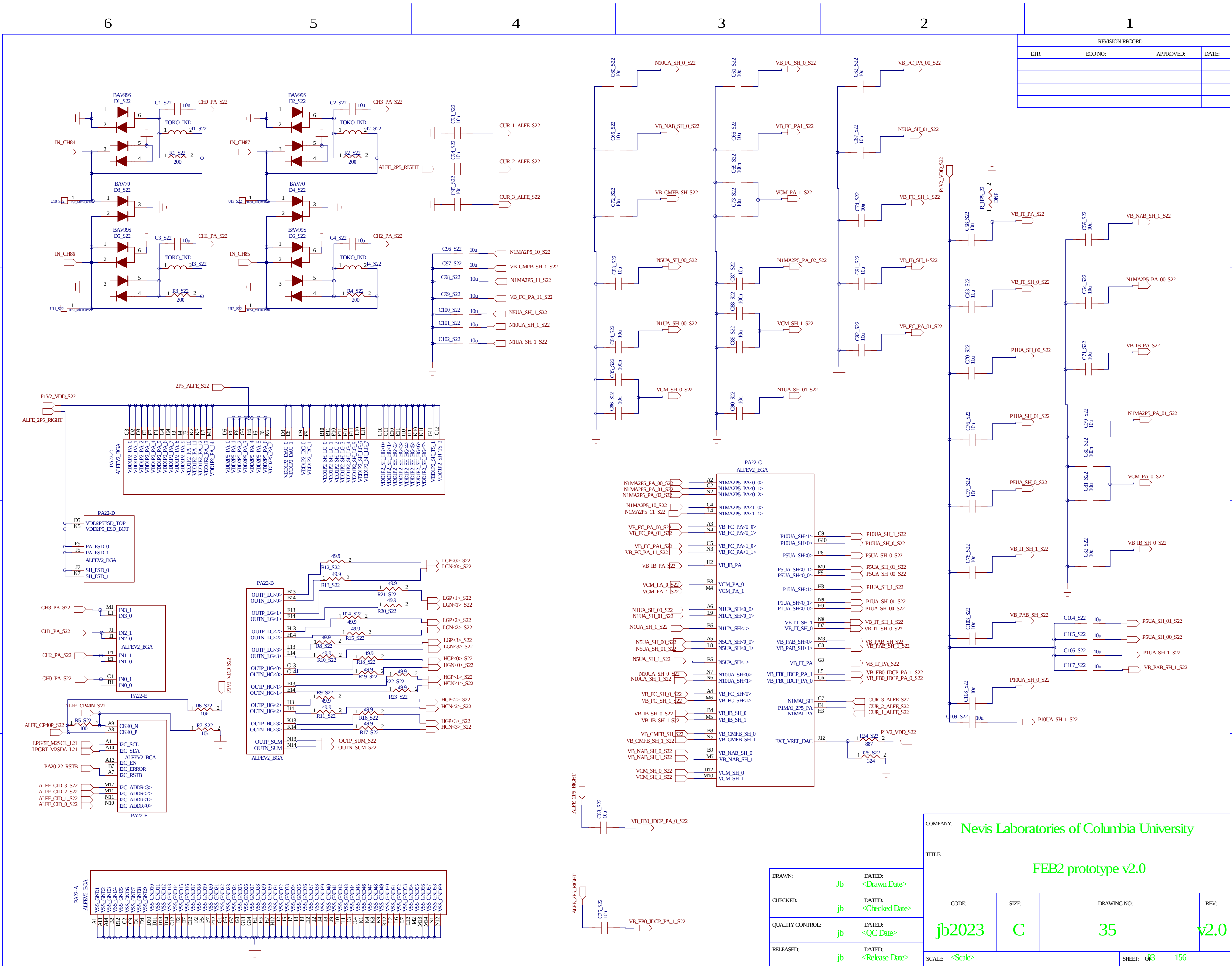
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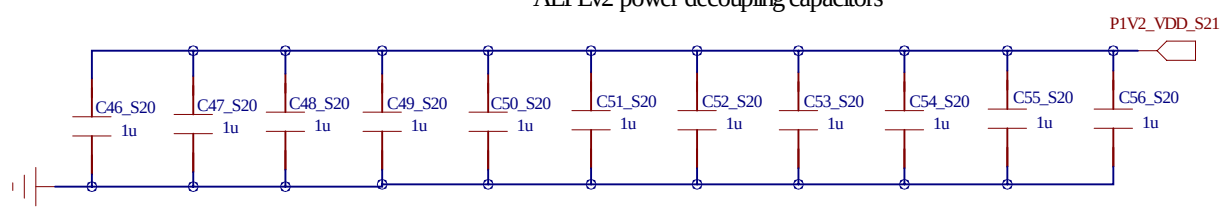
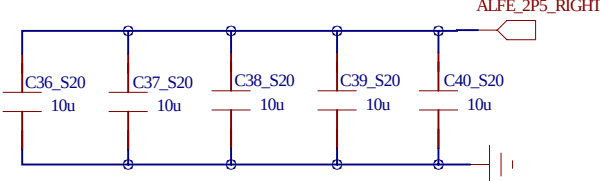
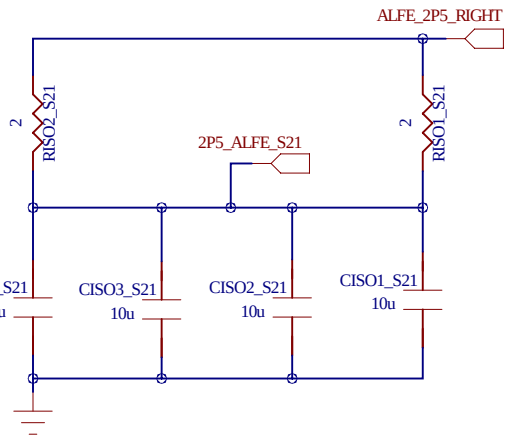
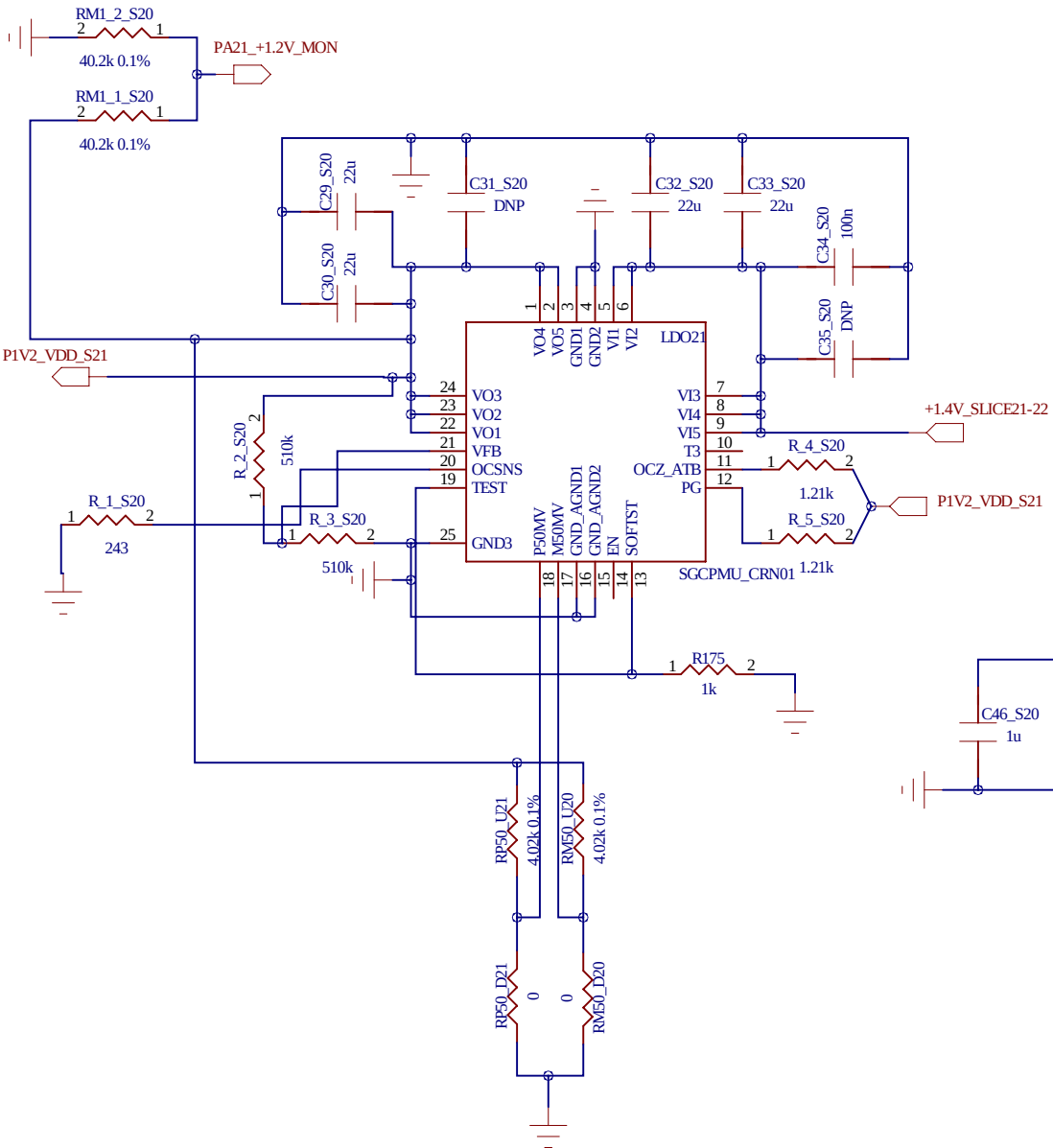
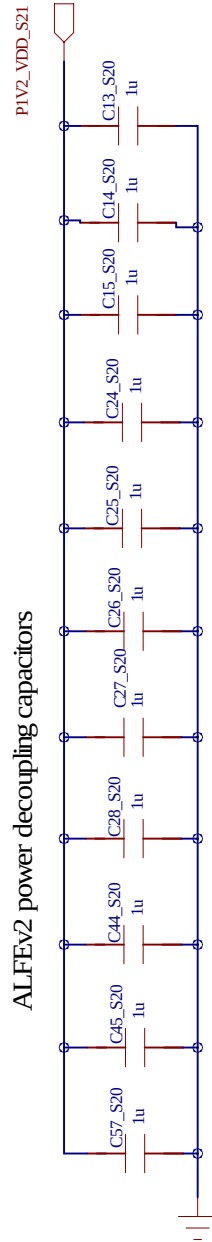
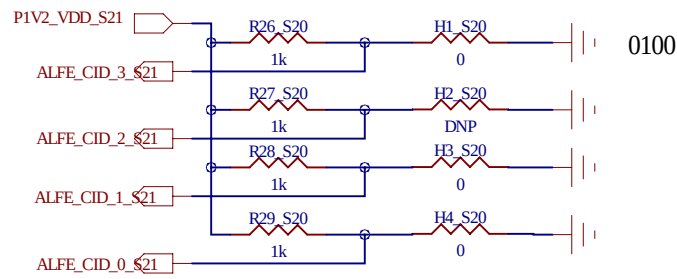
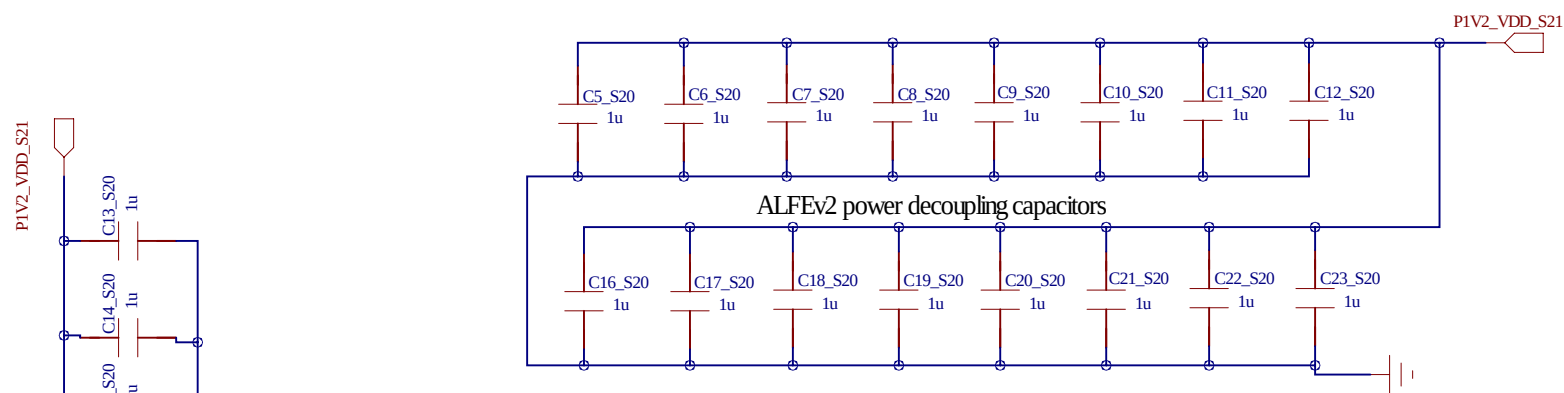
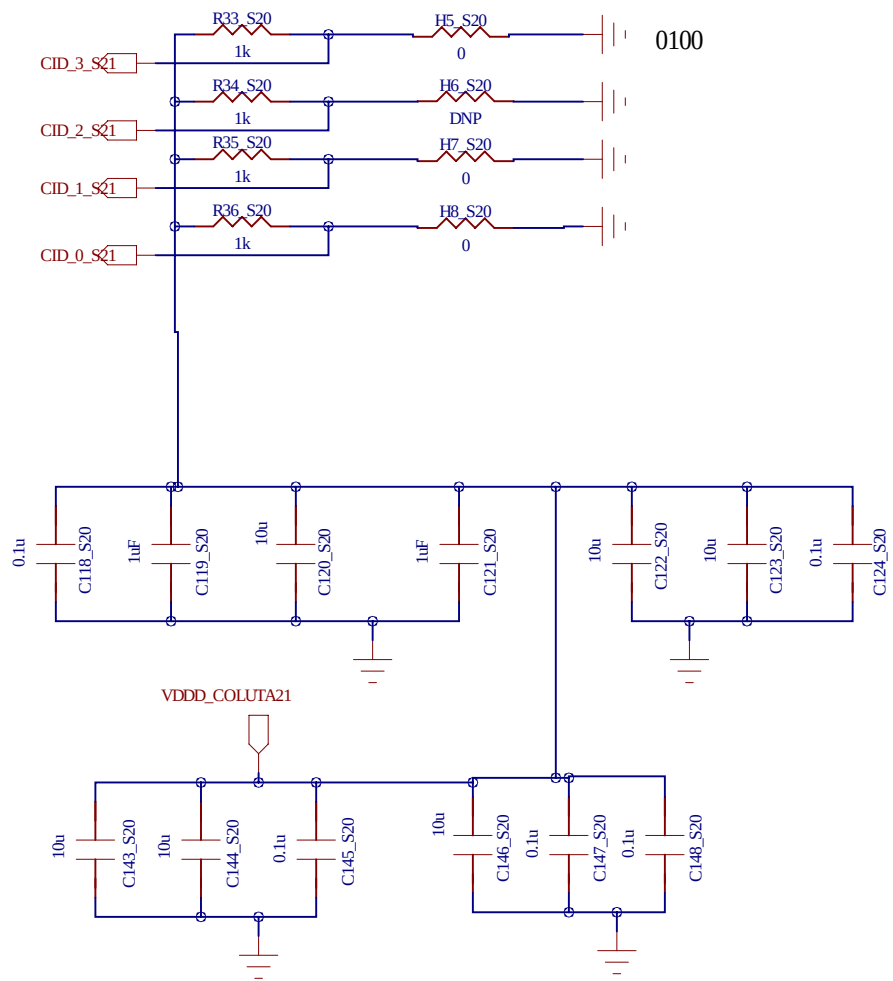
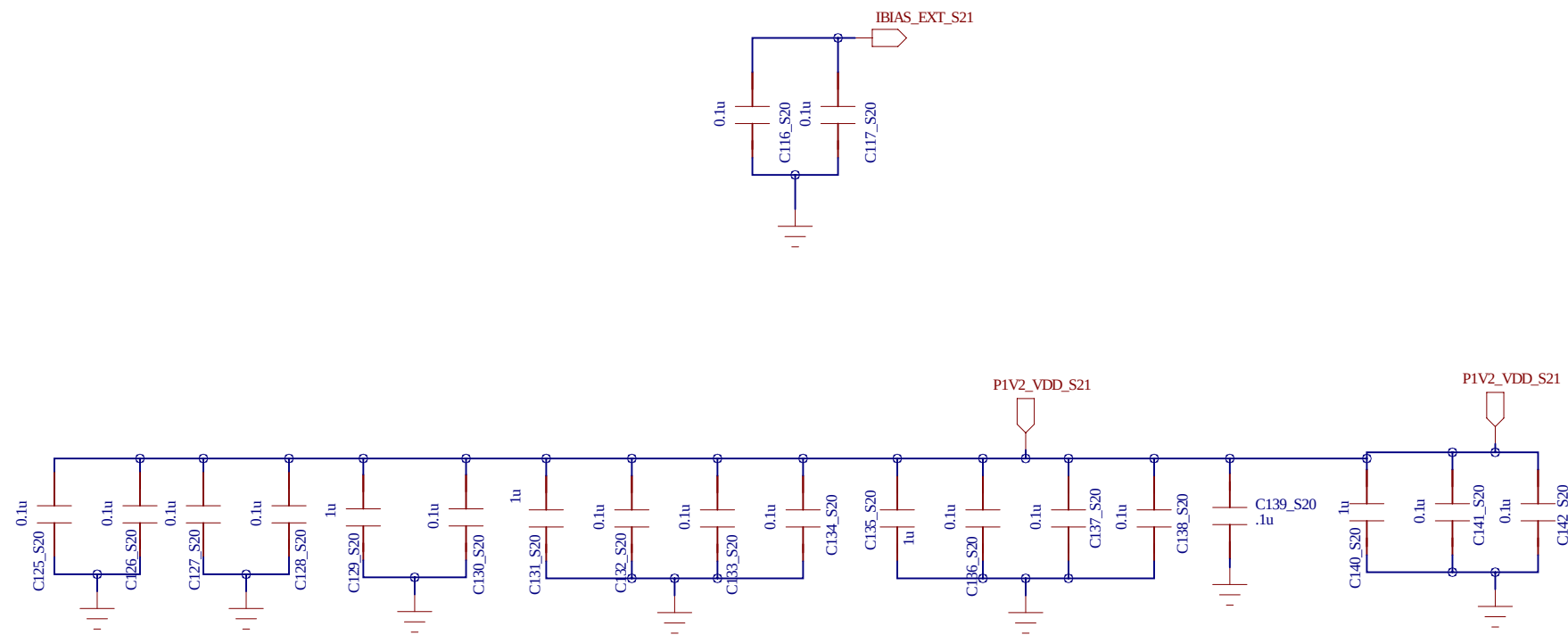
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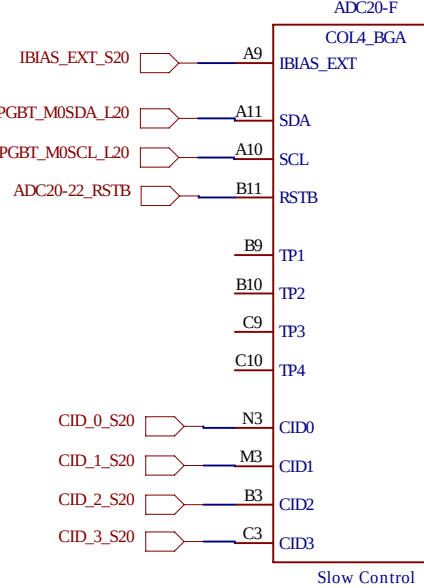
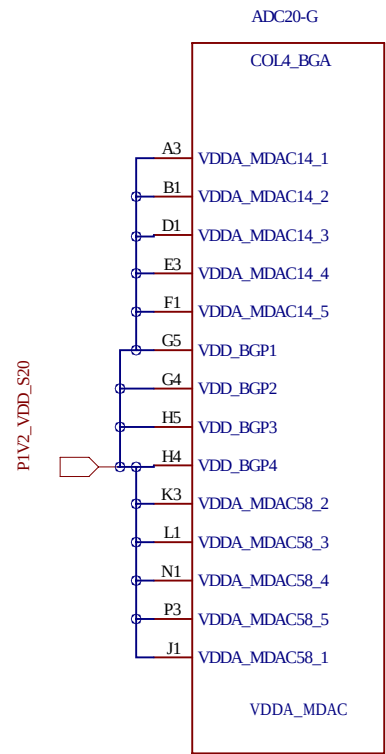
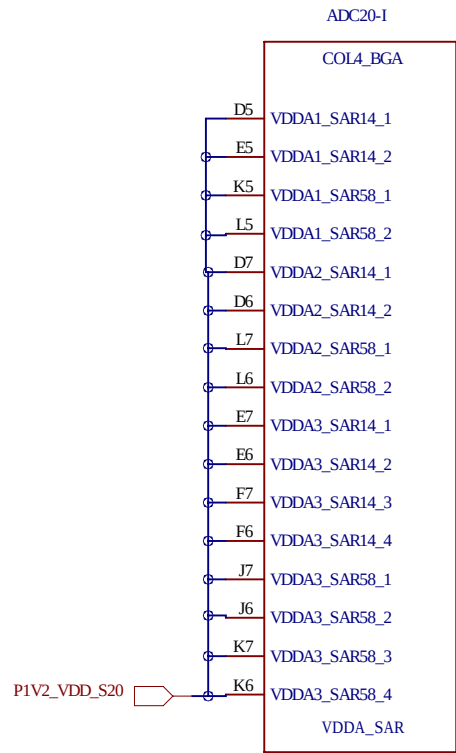
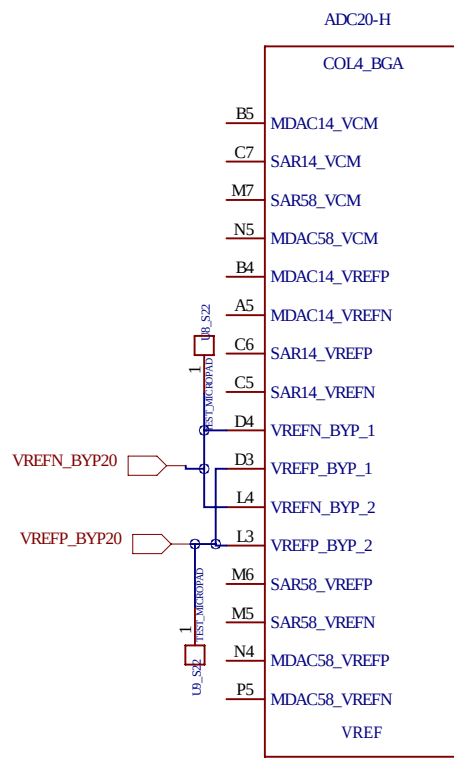
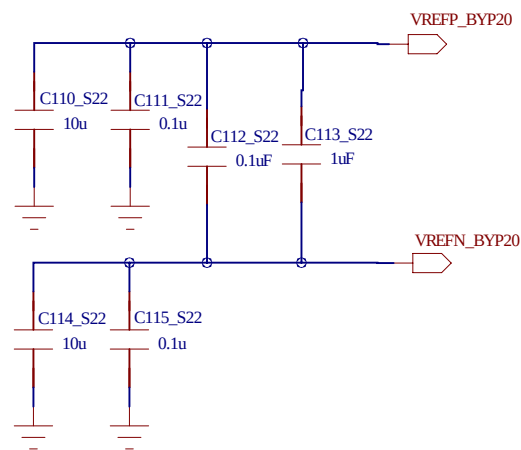
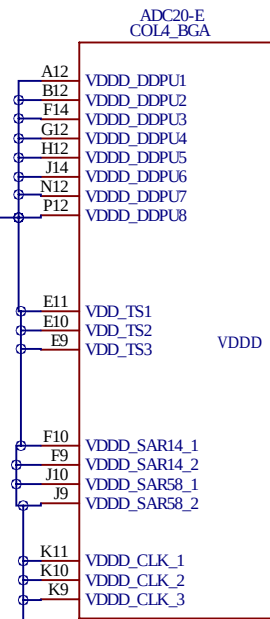
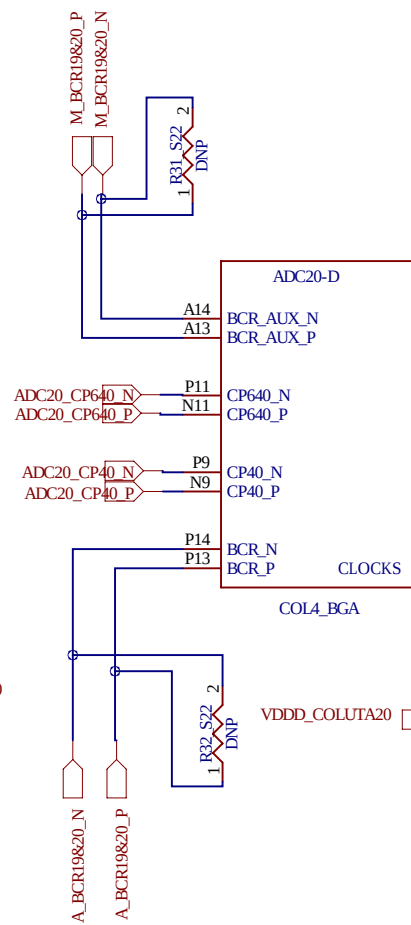
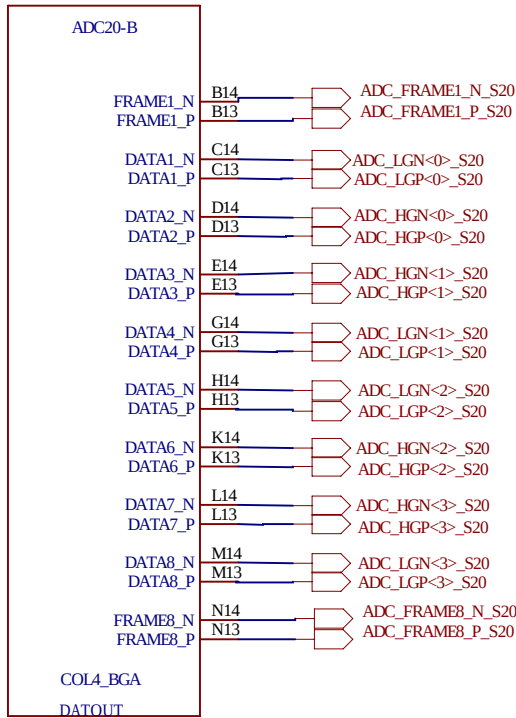
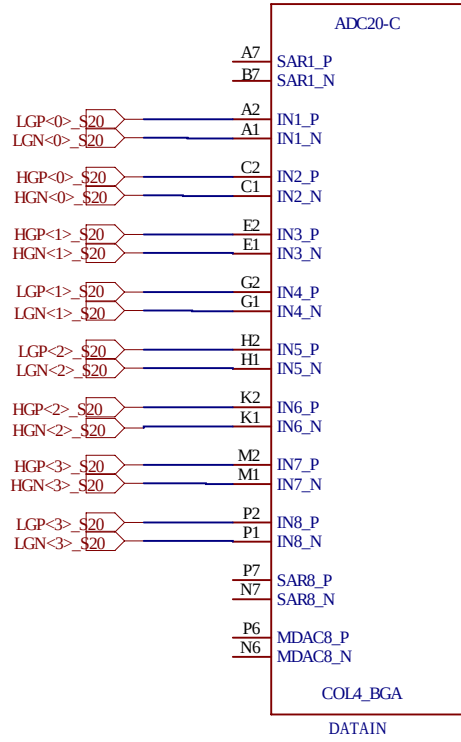
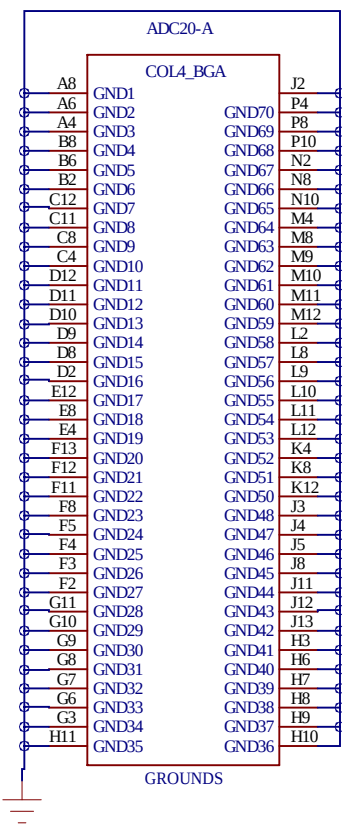
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TITLE: FEB2 prototype v2.0			
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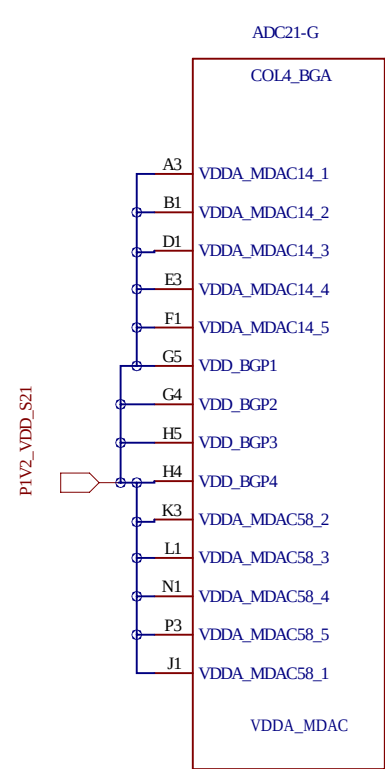
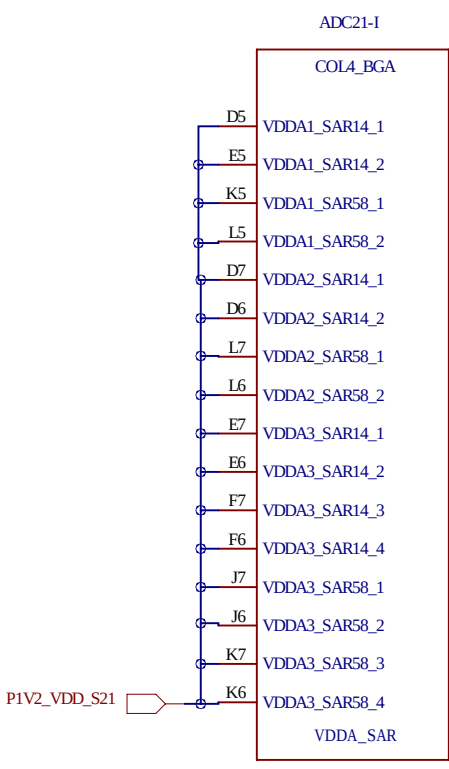
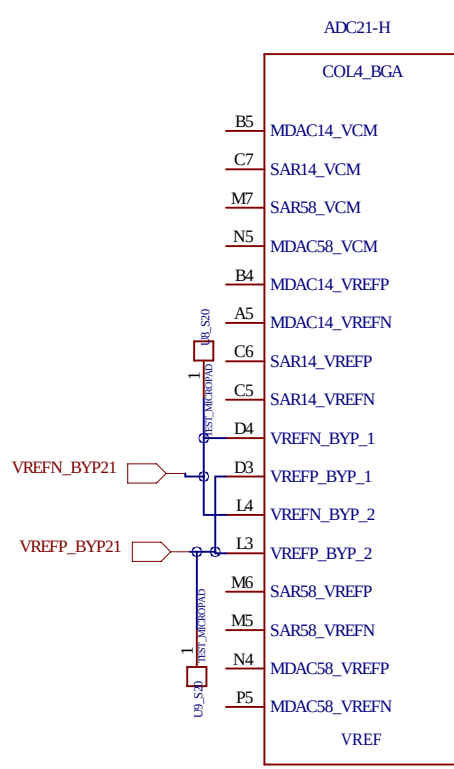
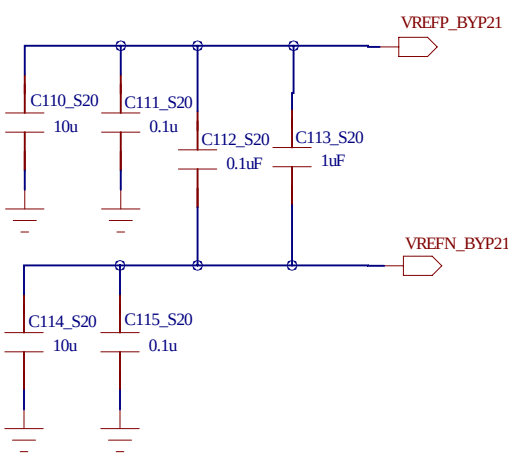
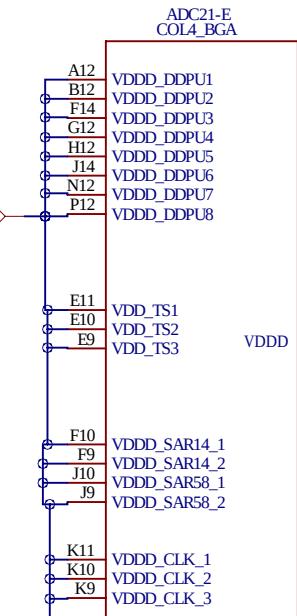
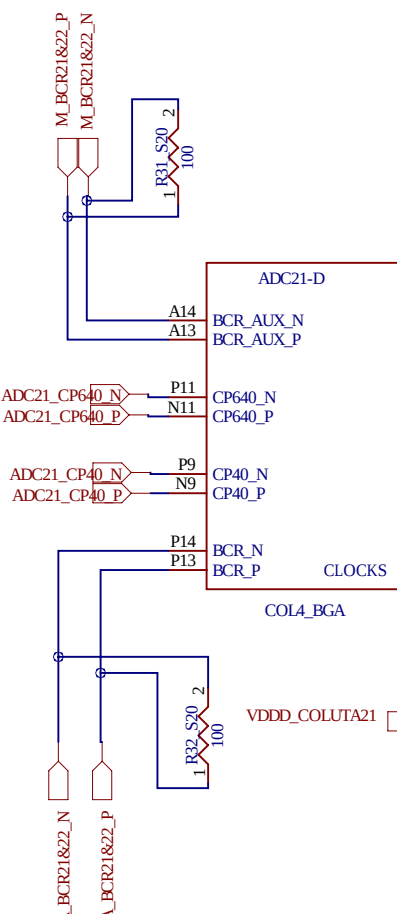
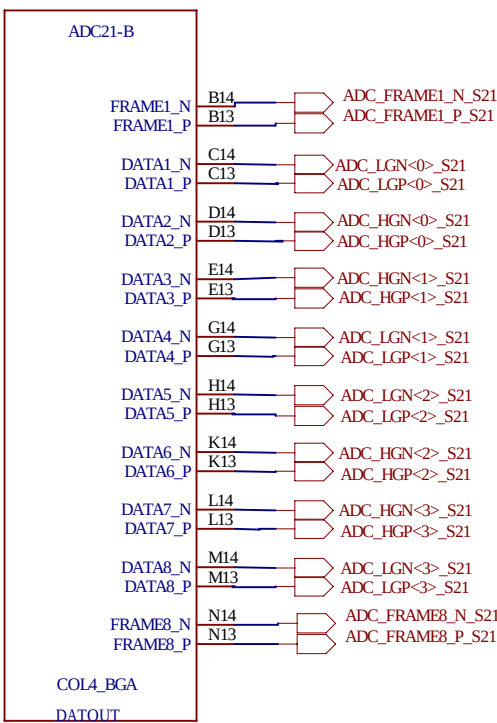
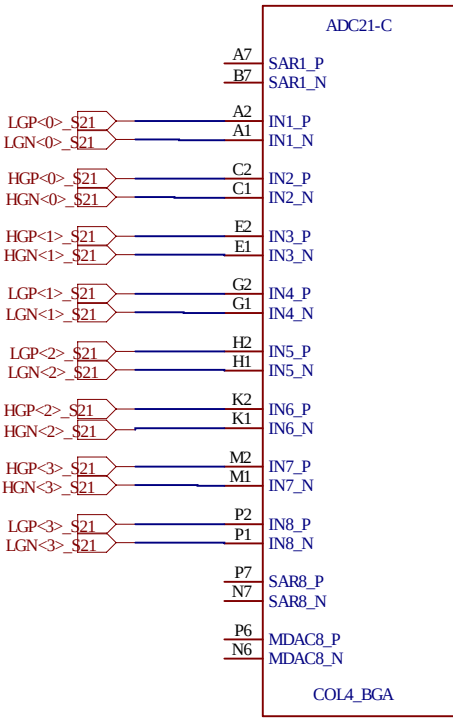
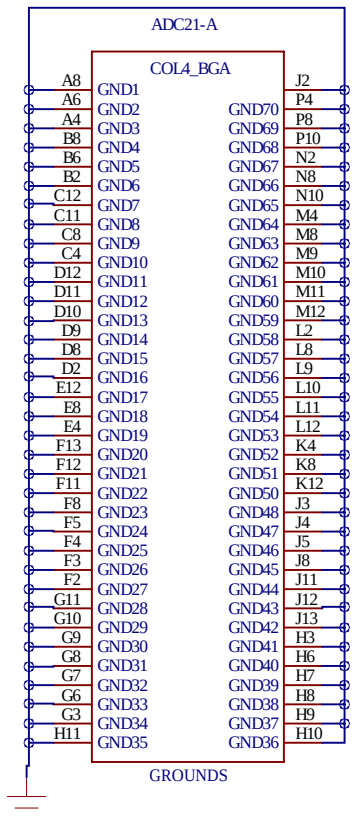
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COMPANY: Nevis Laboratories of Columbia University

TITLE: FEB2 prototype v2.0

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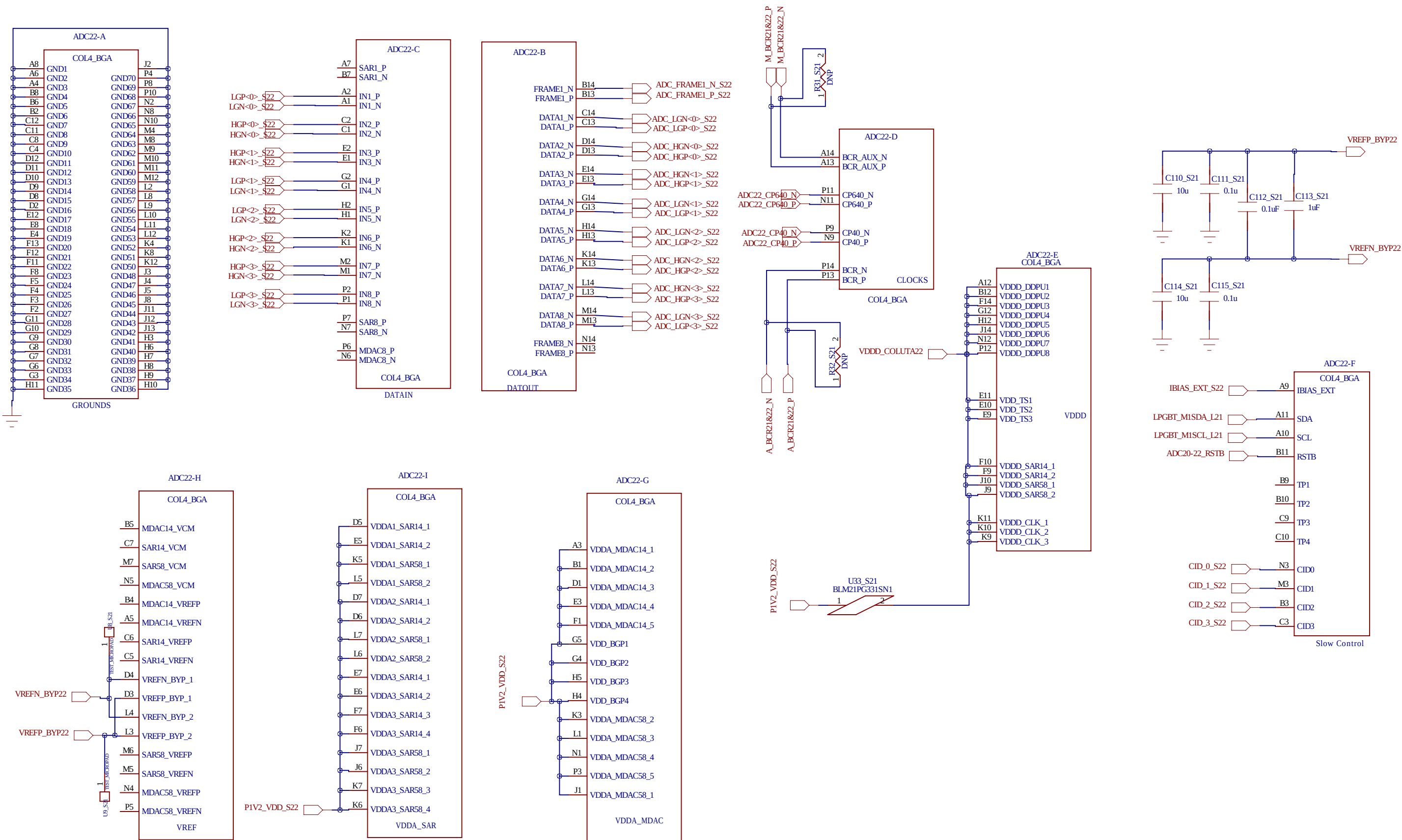
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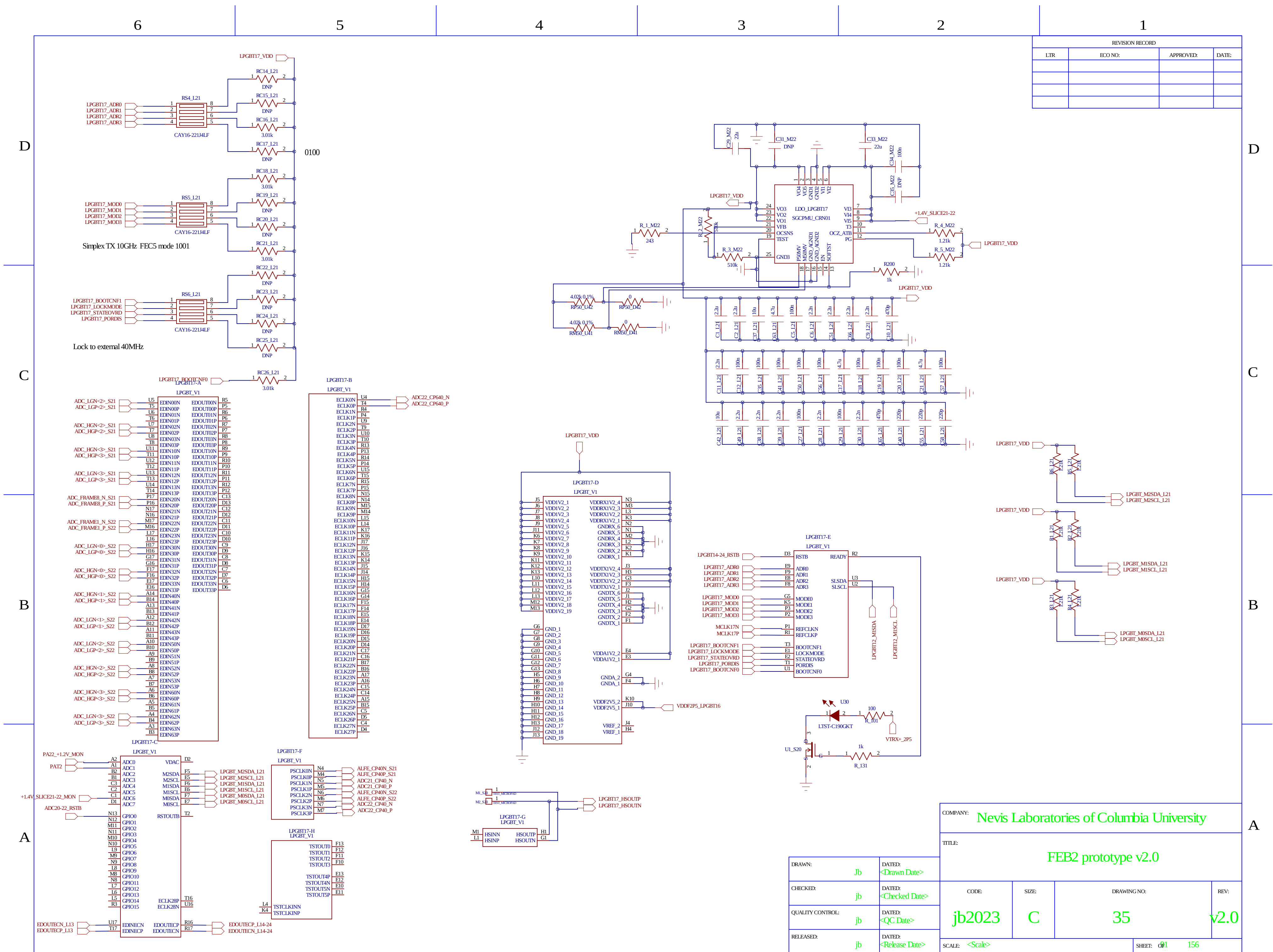
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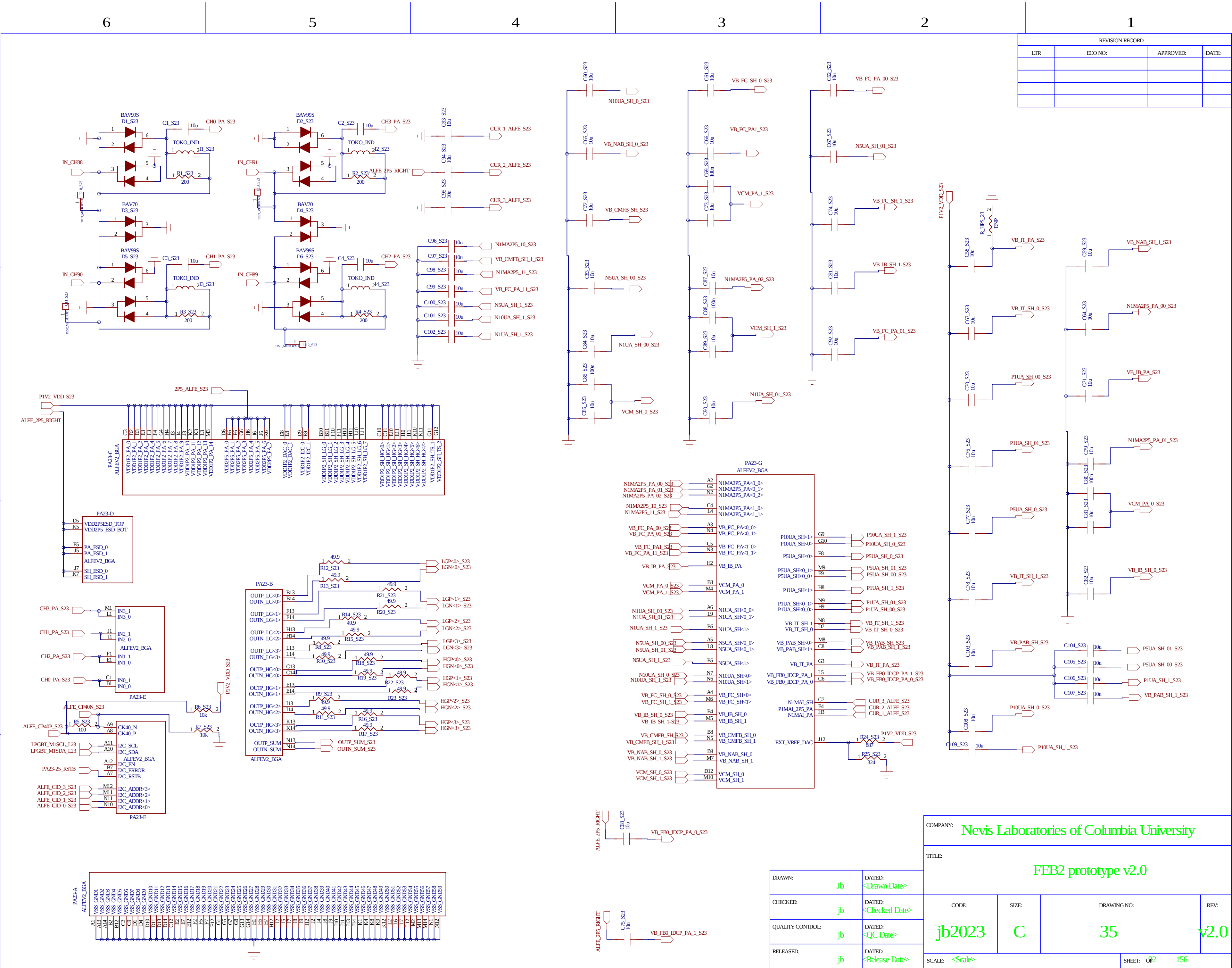
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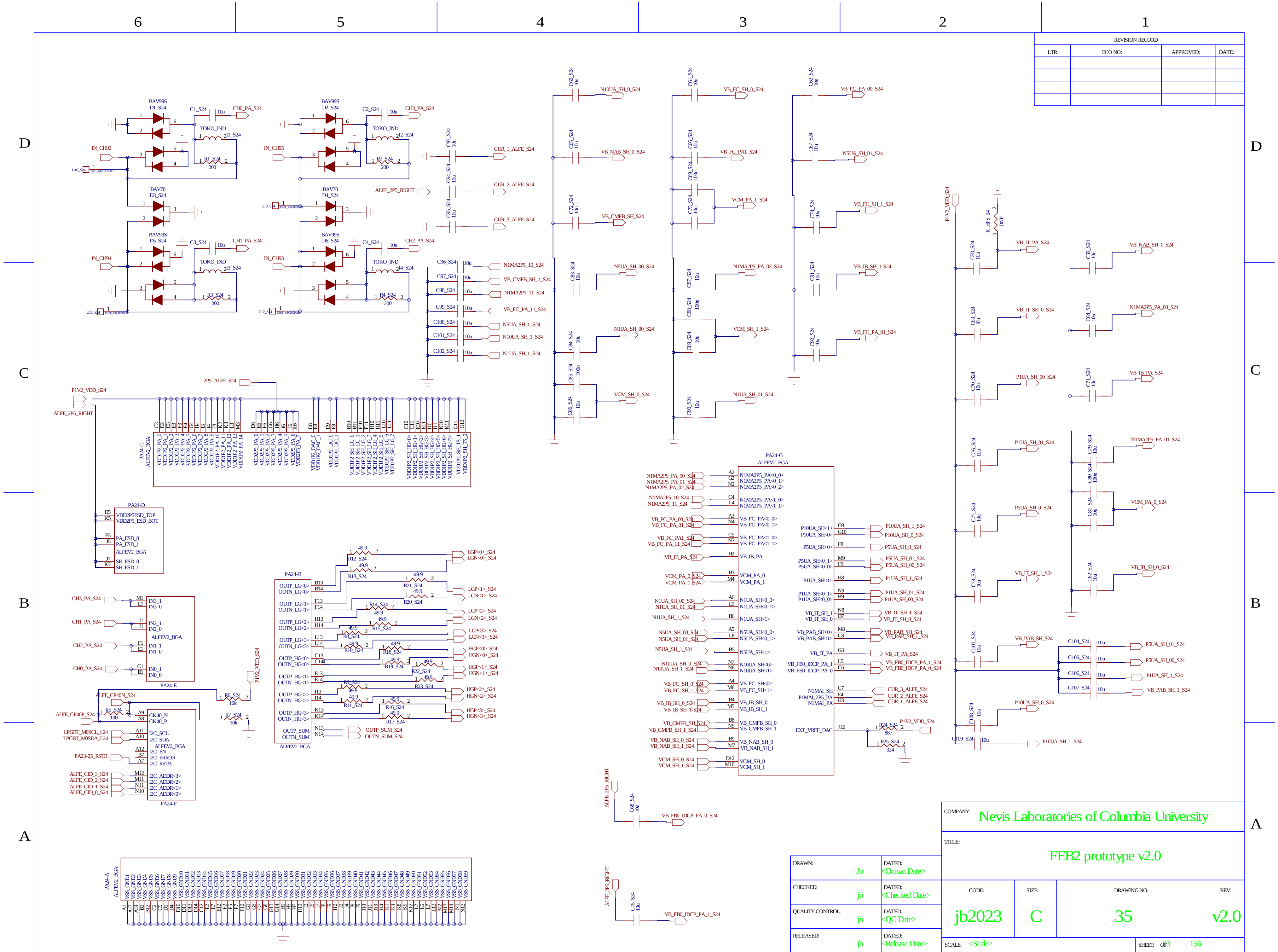
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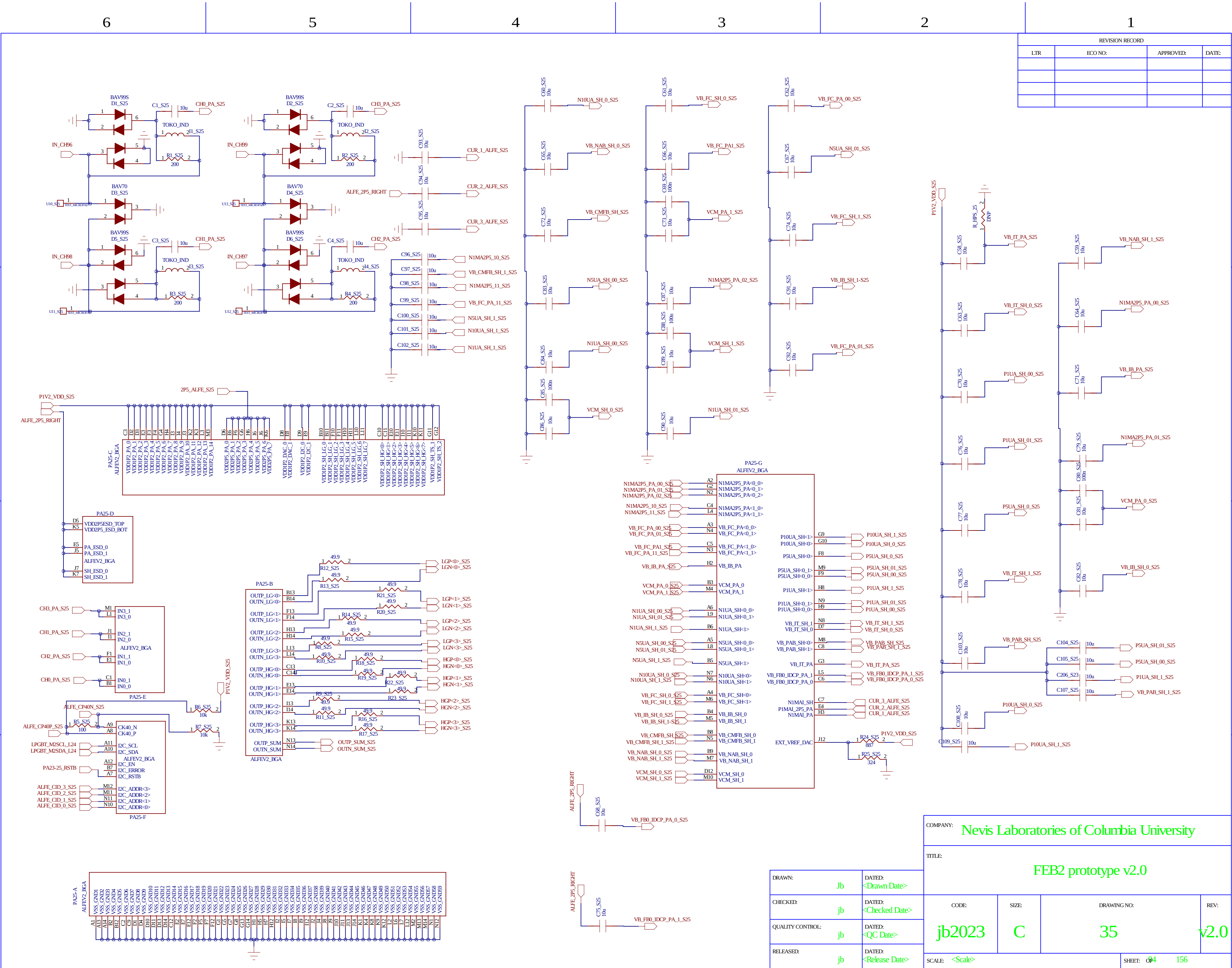
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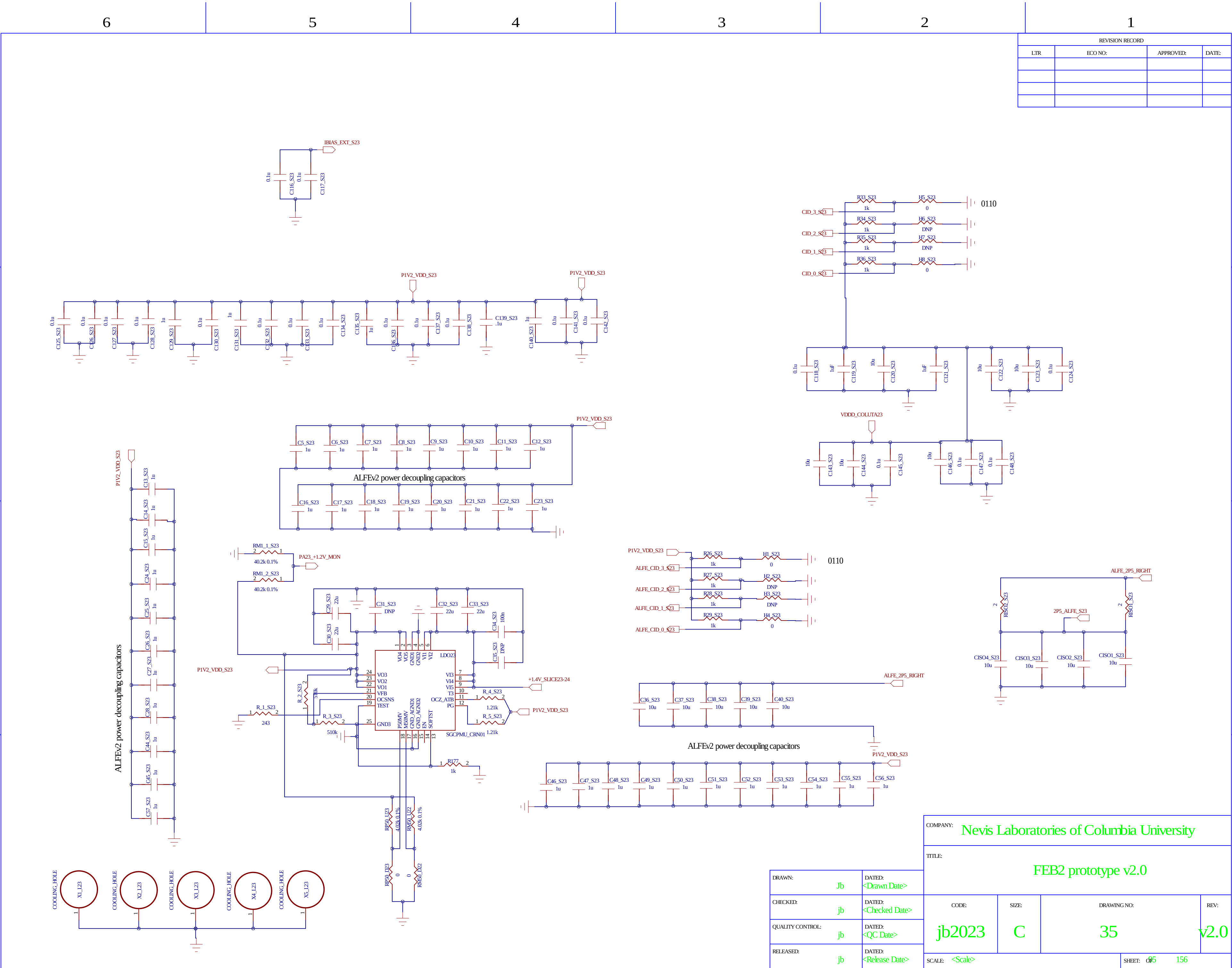
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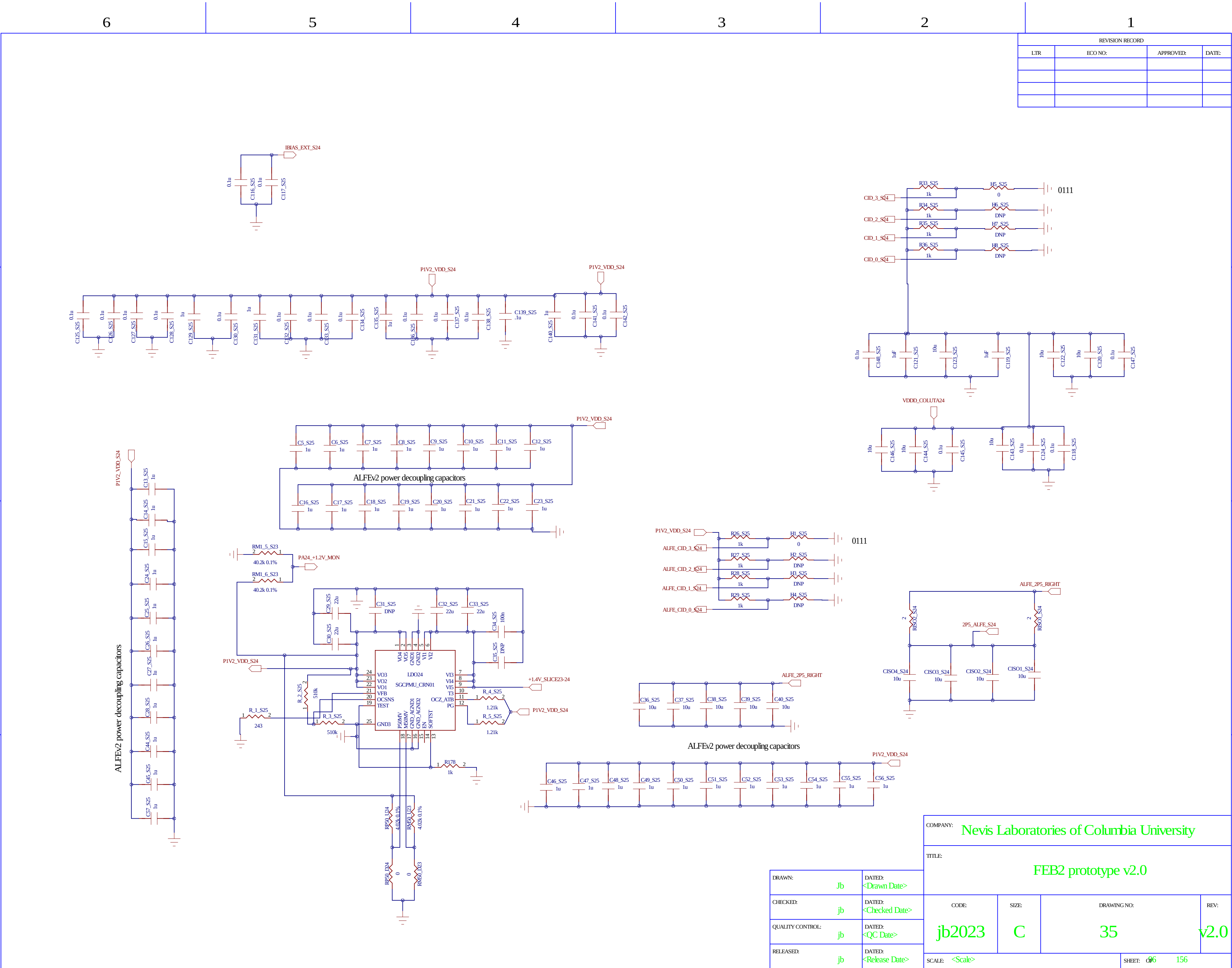
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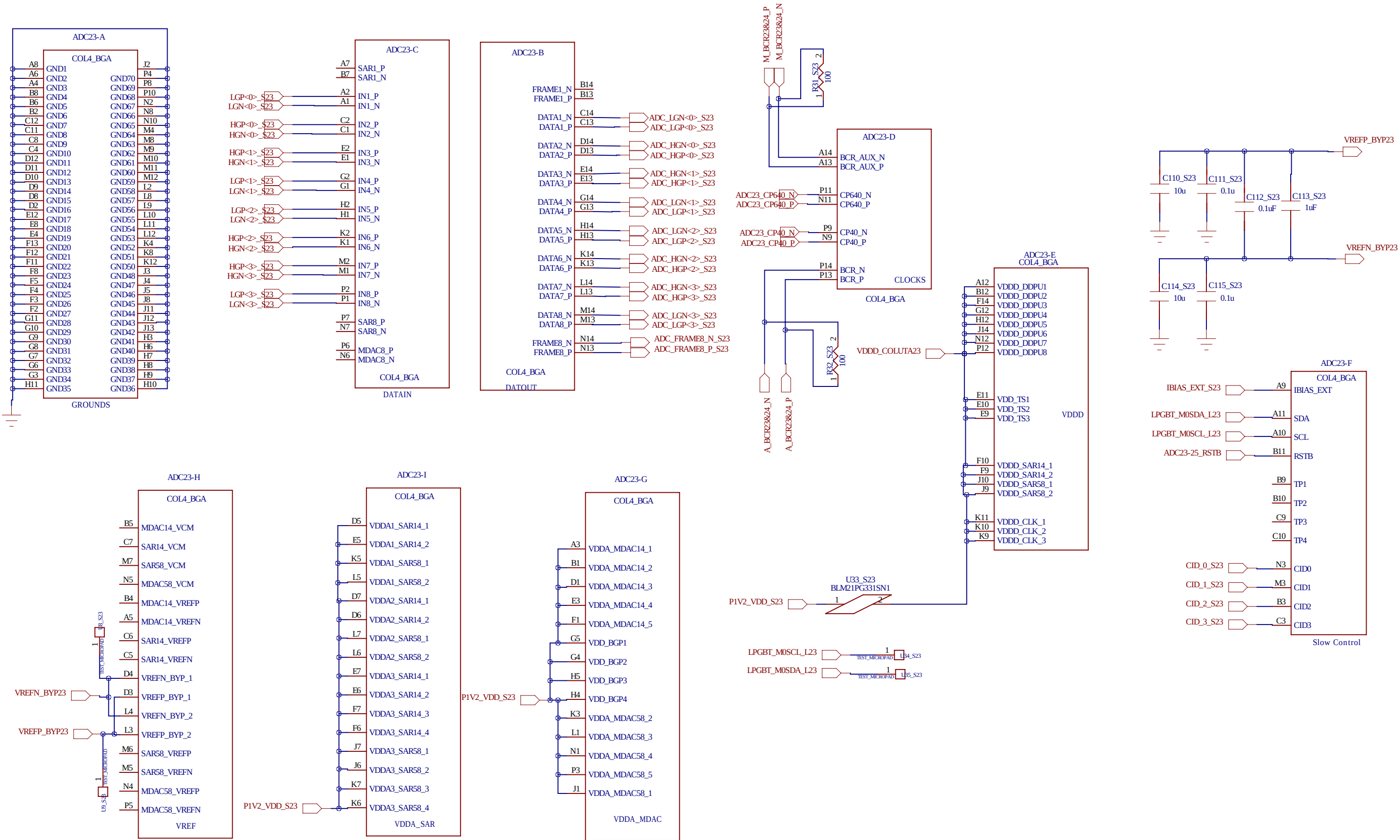
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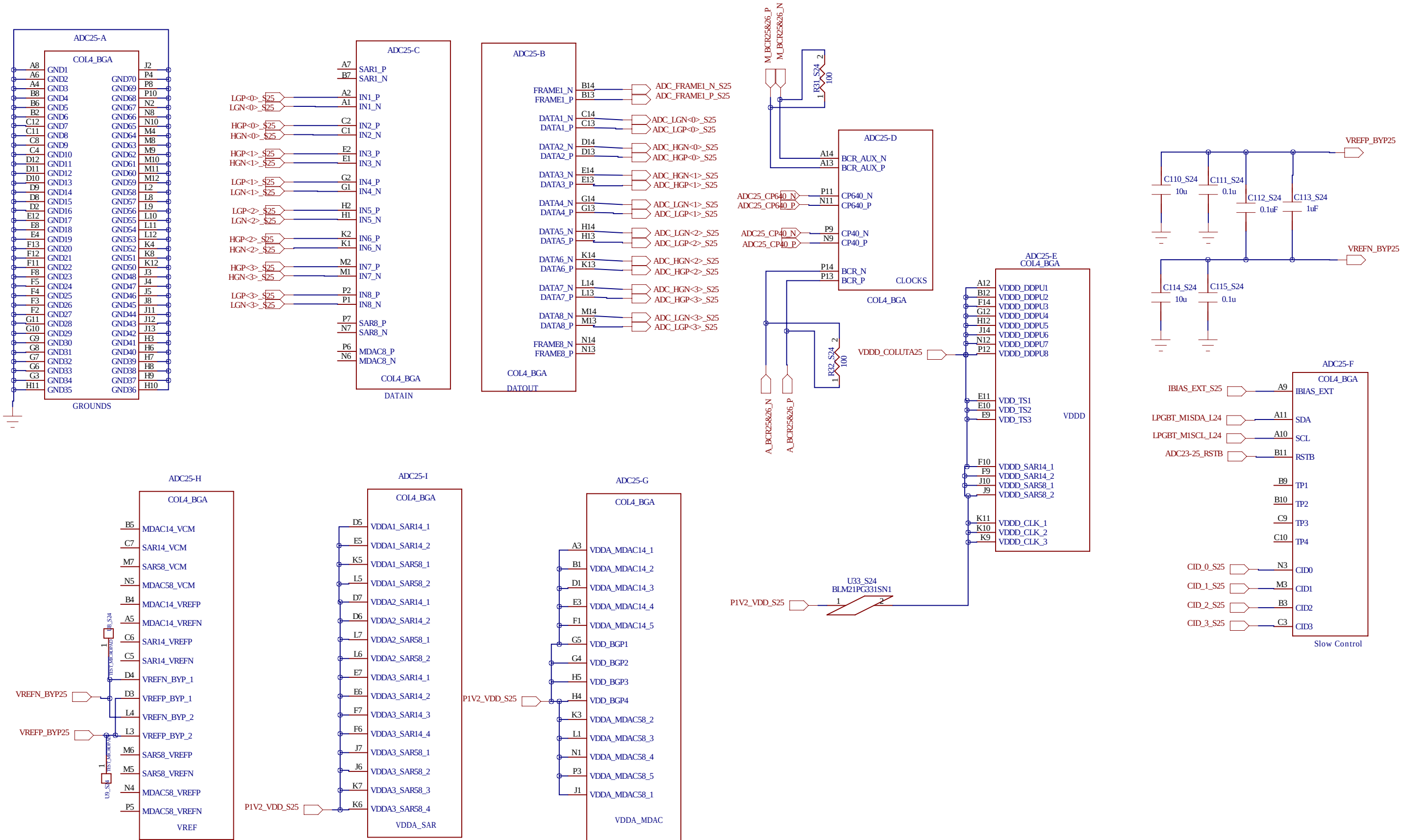
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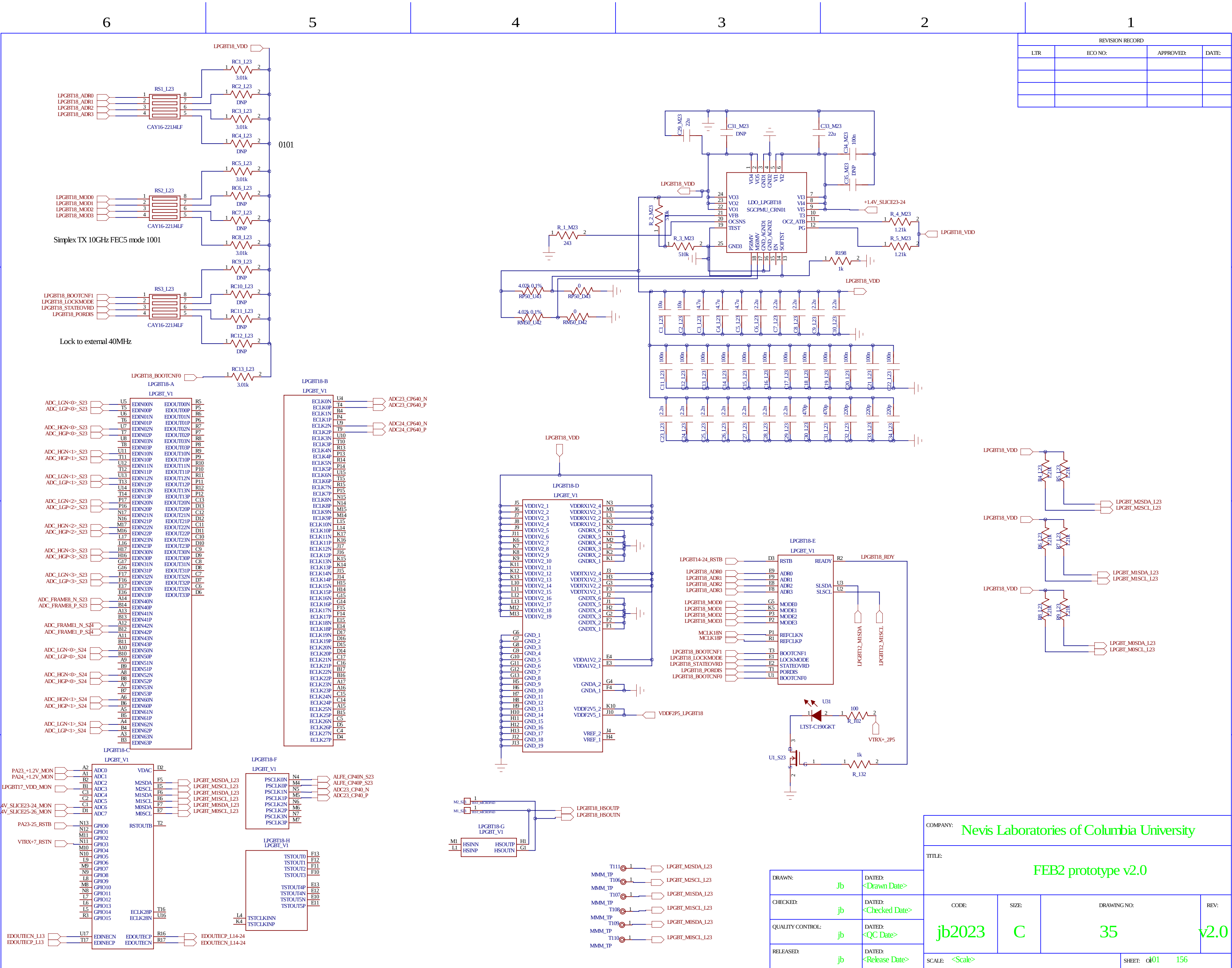
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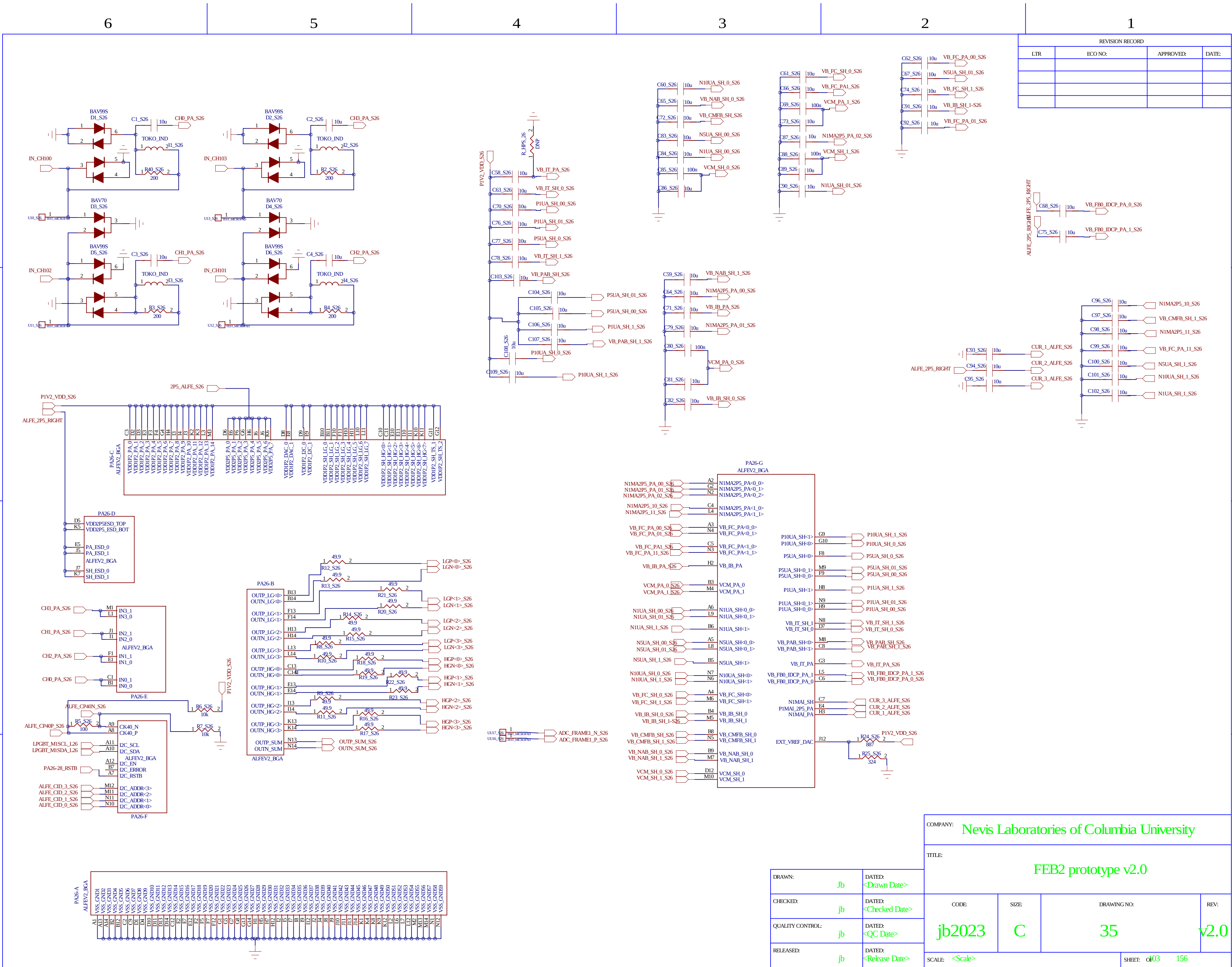
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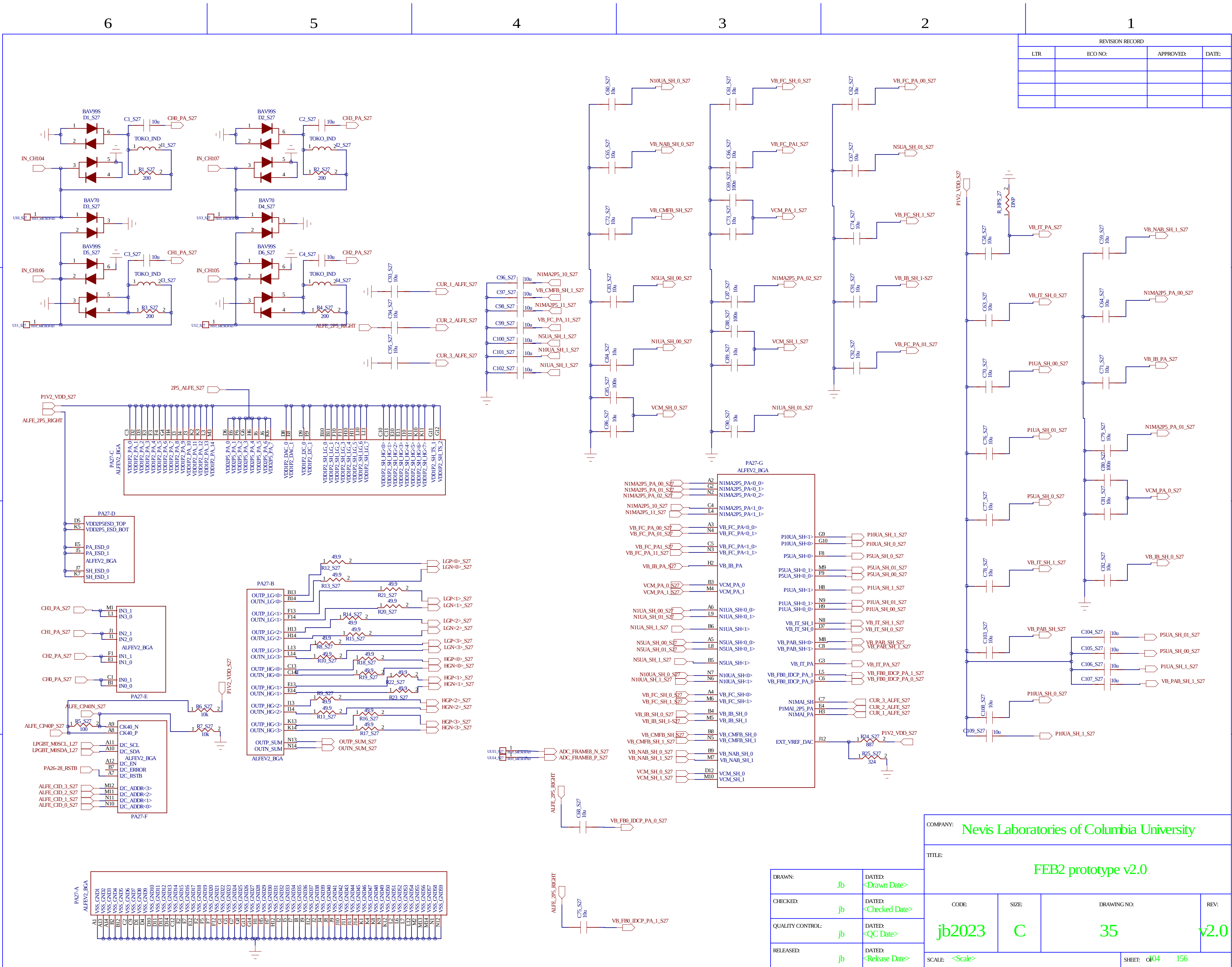
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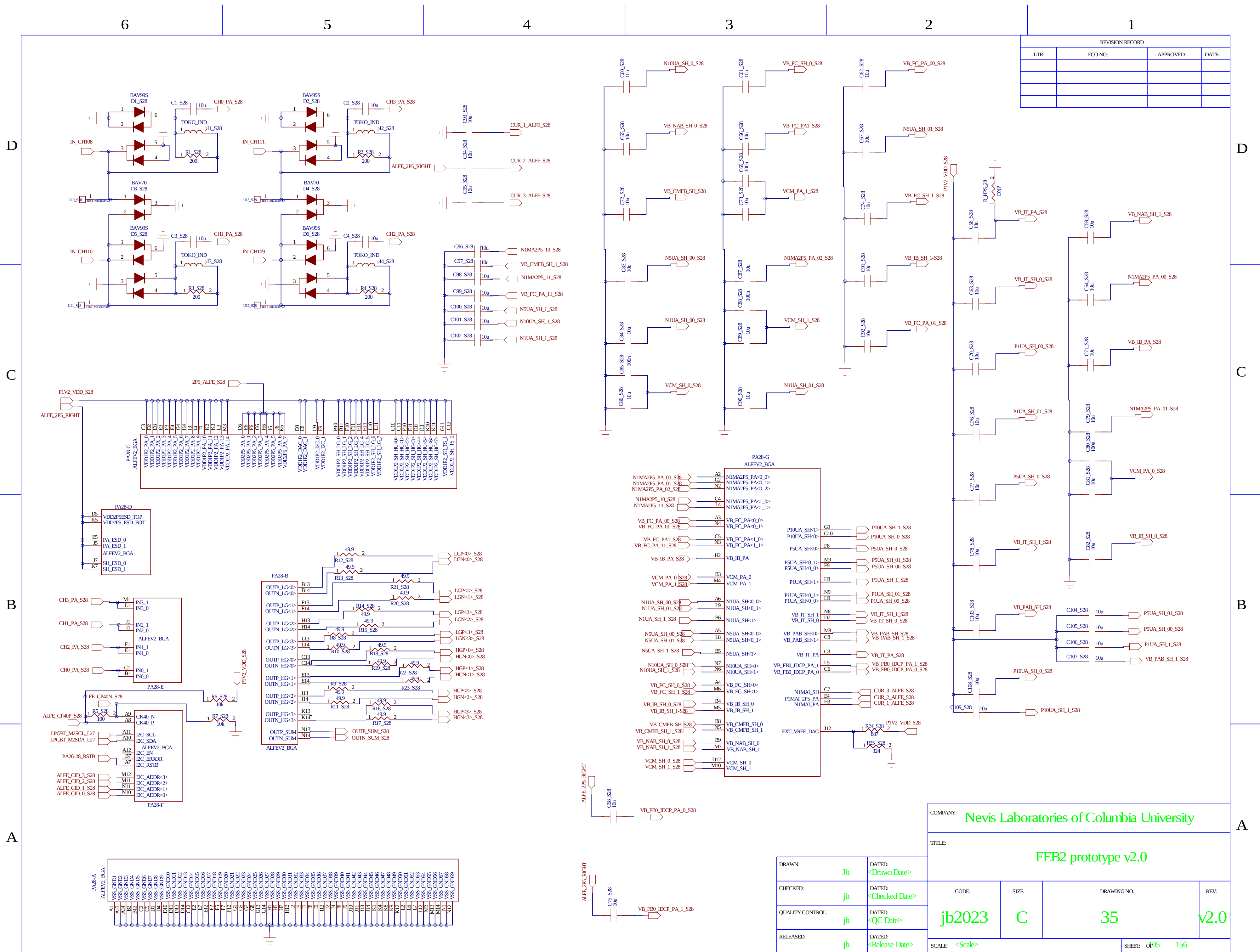
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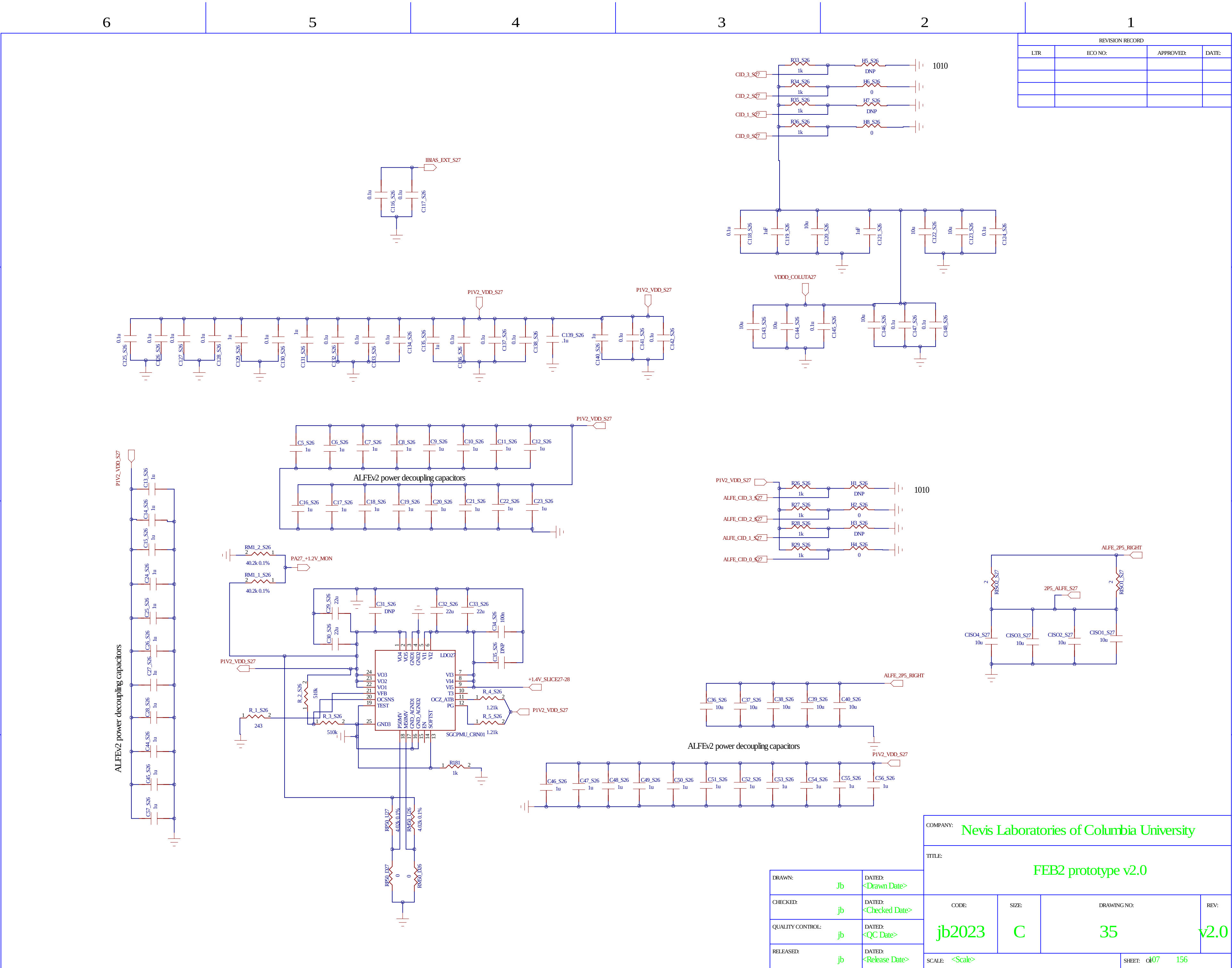
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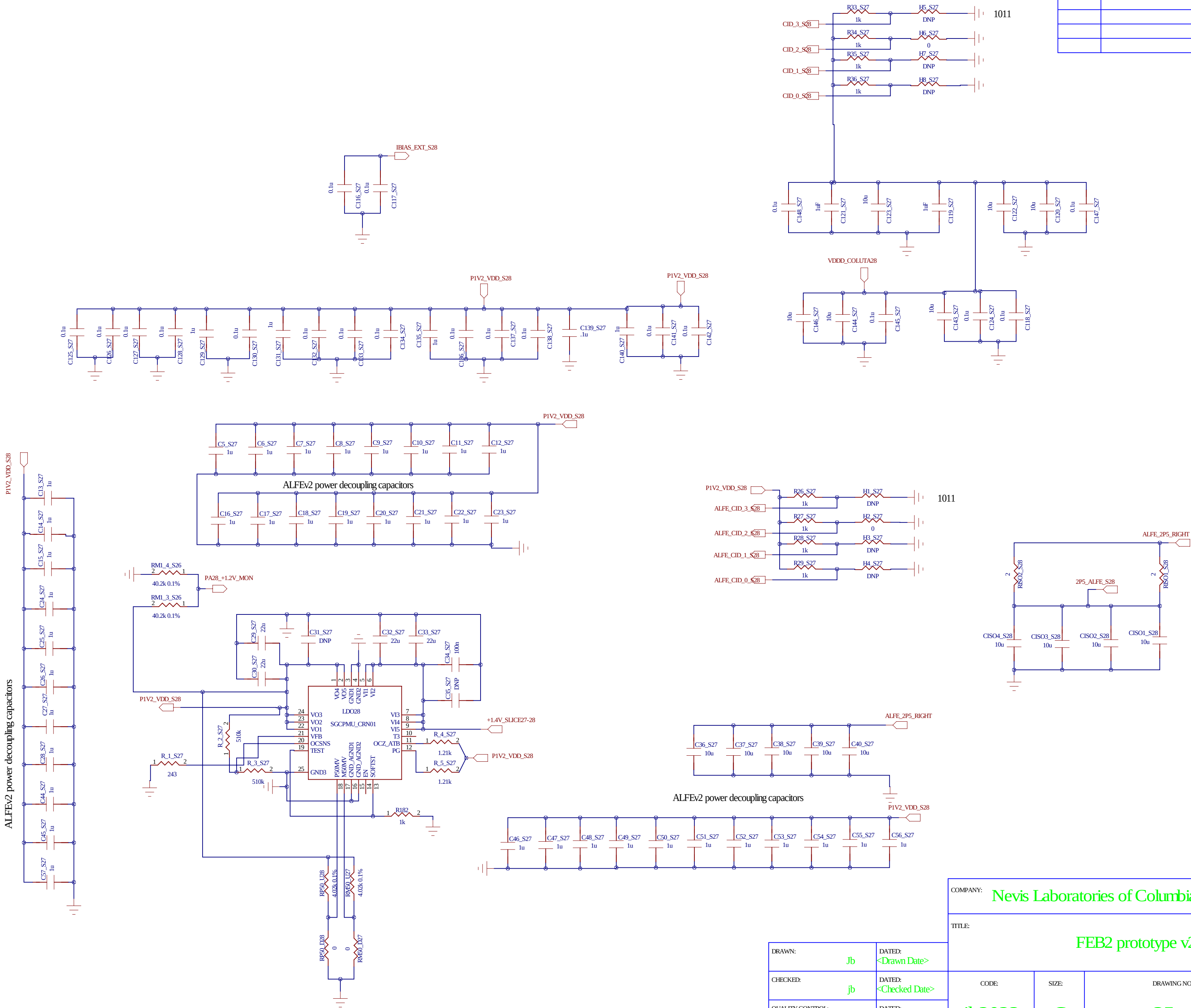
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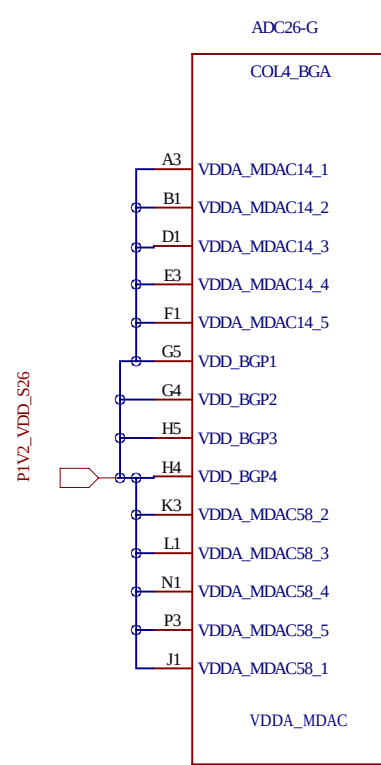
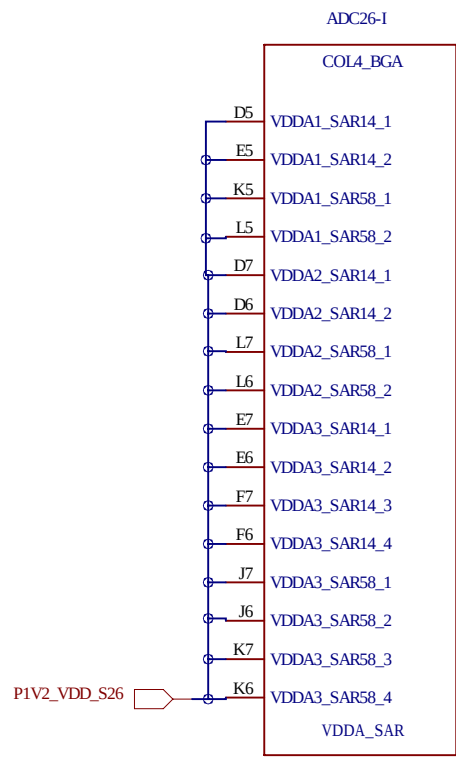
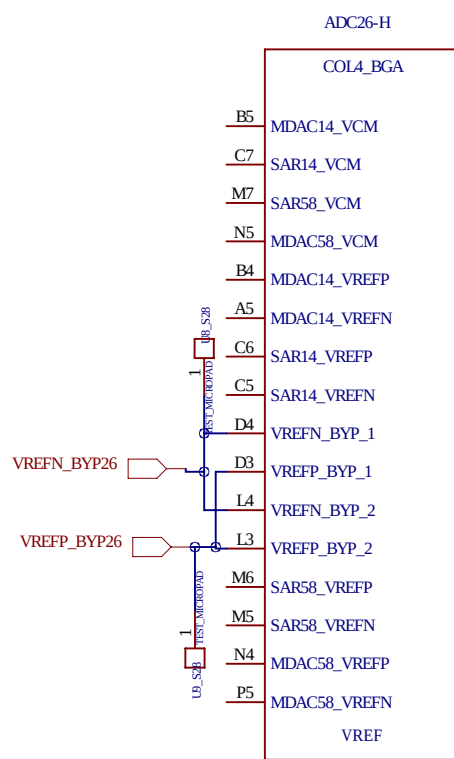
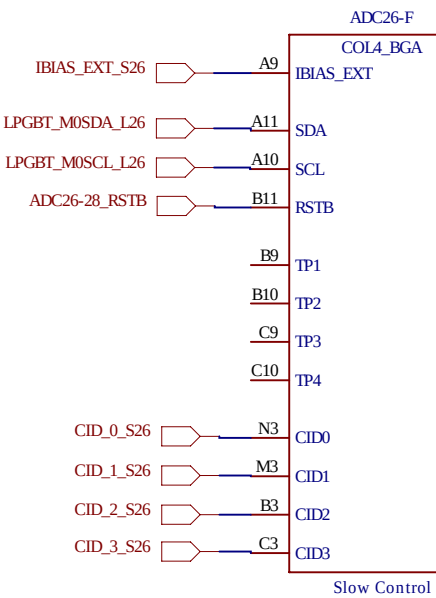
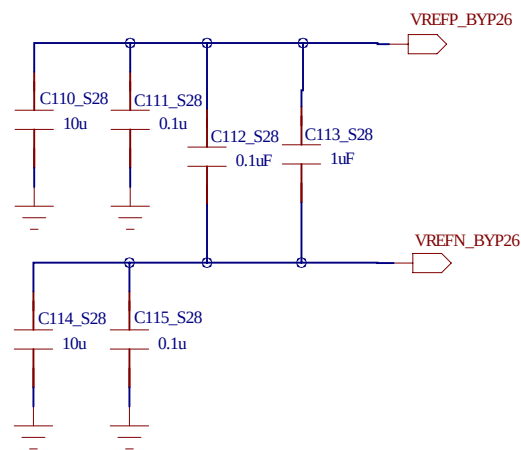
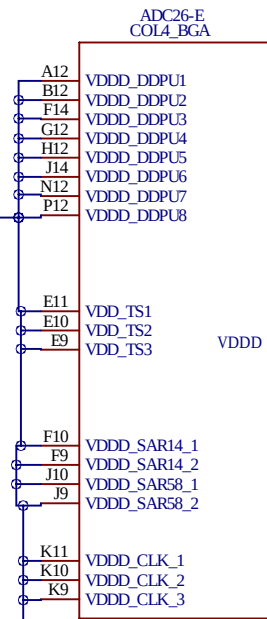
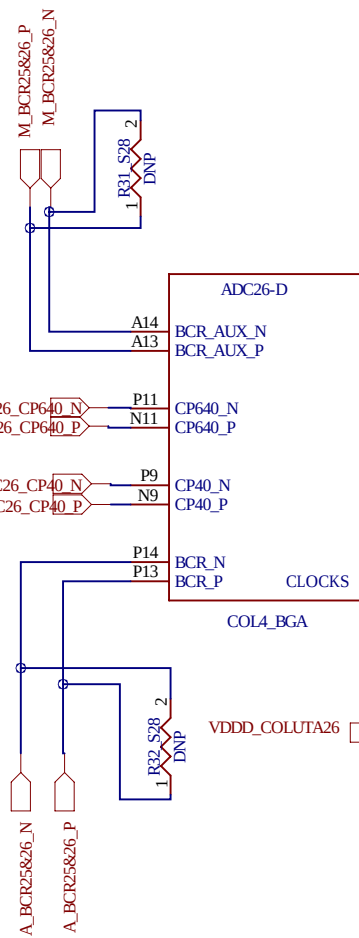
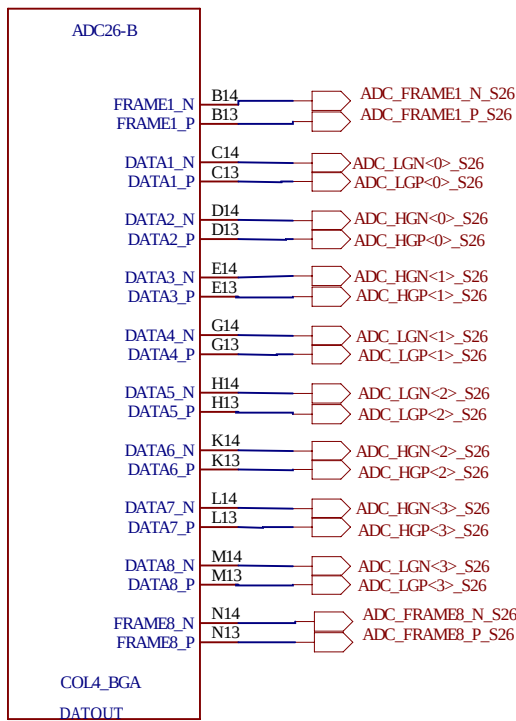
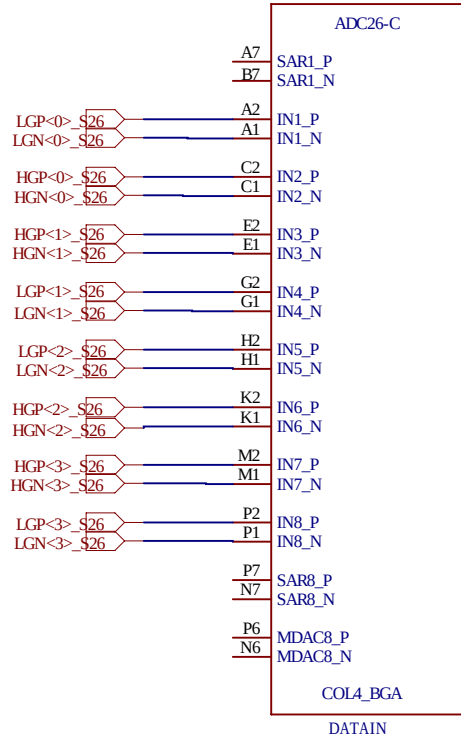
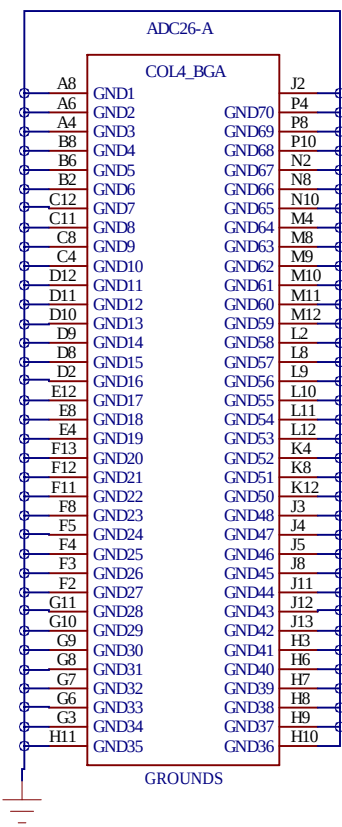
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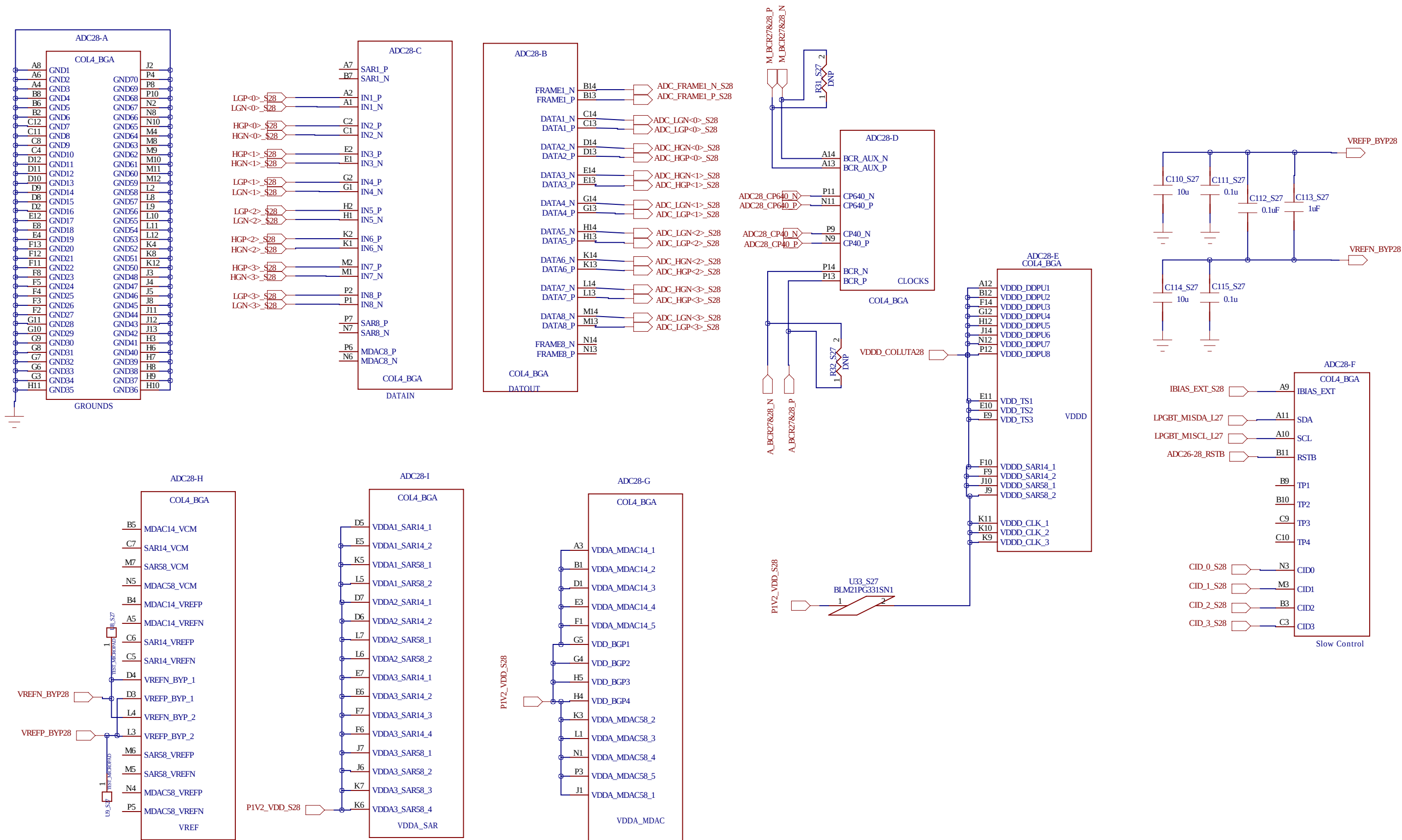
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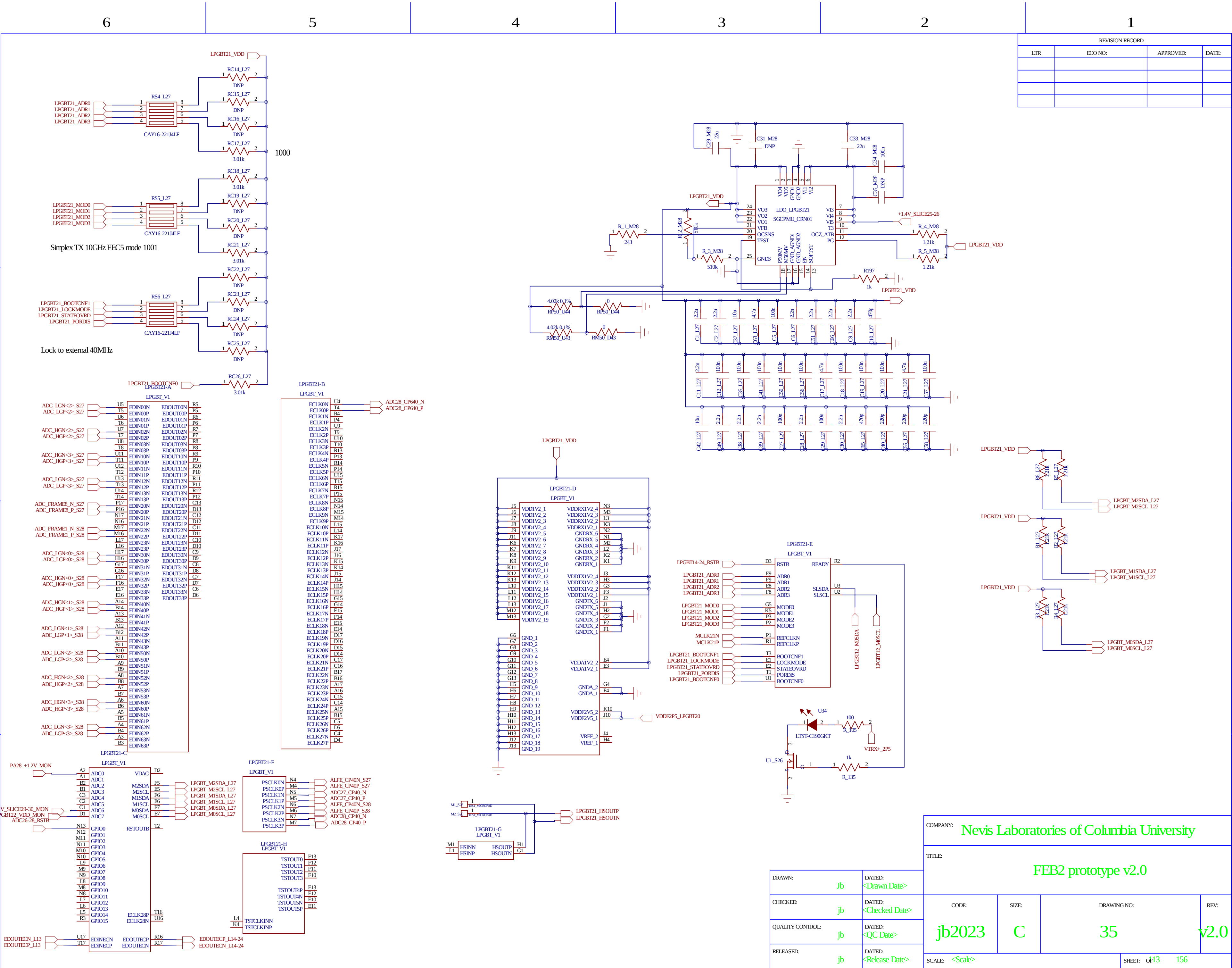
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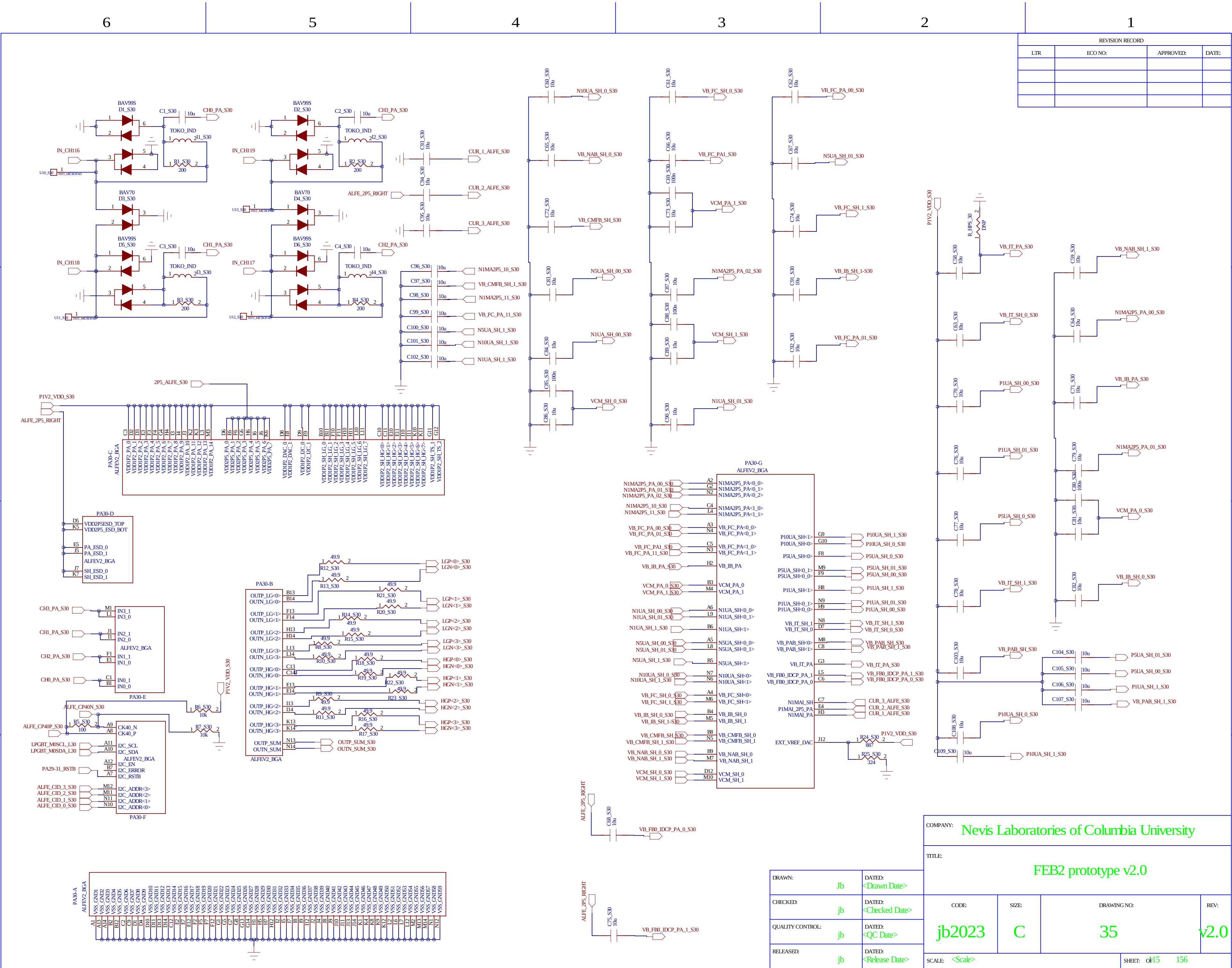
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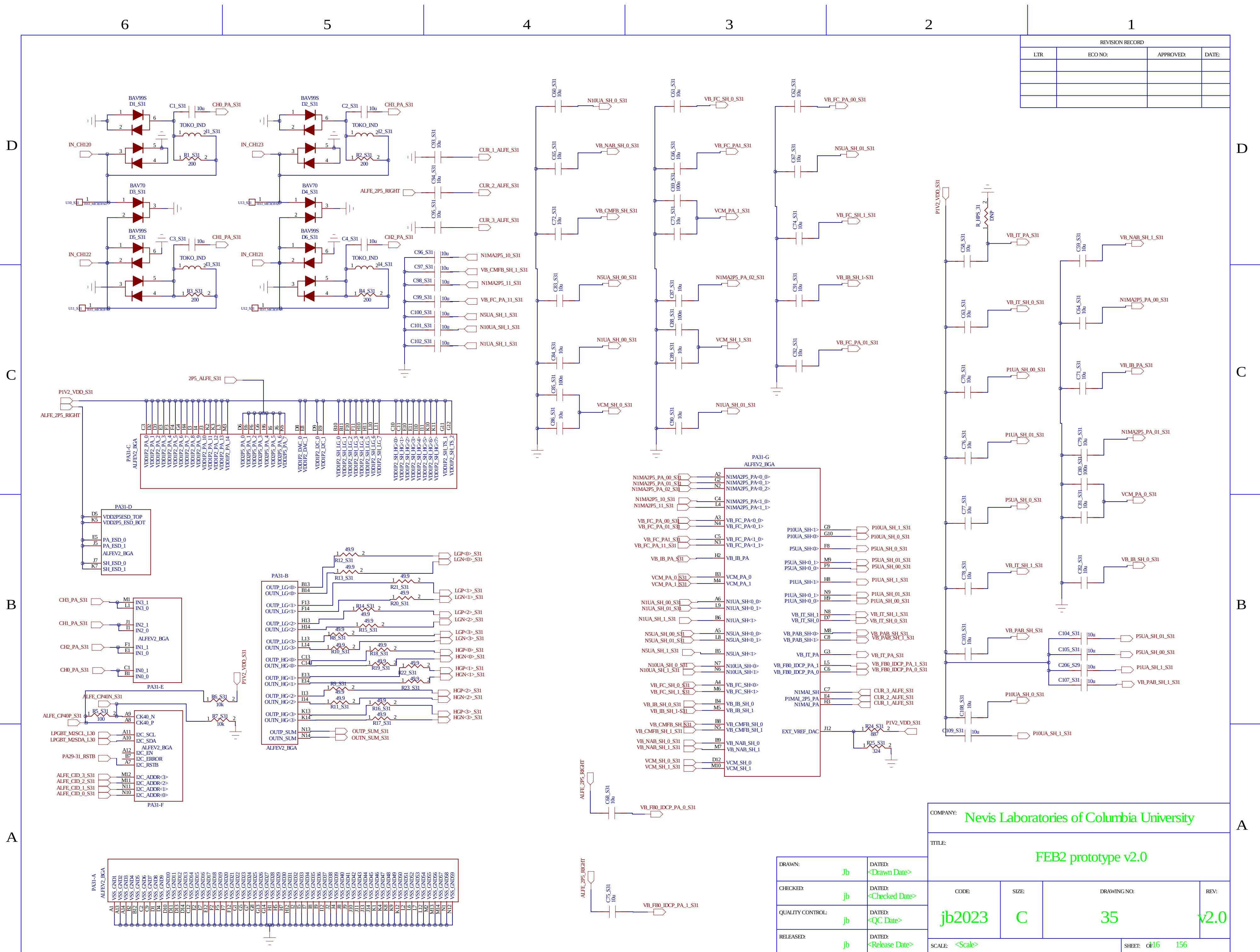
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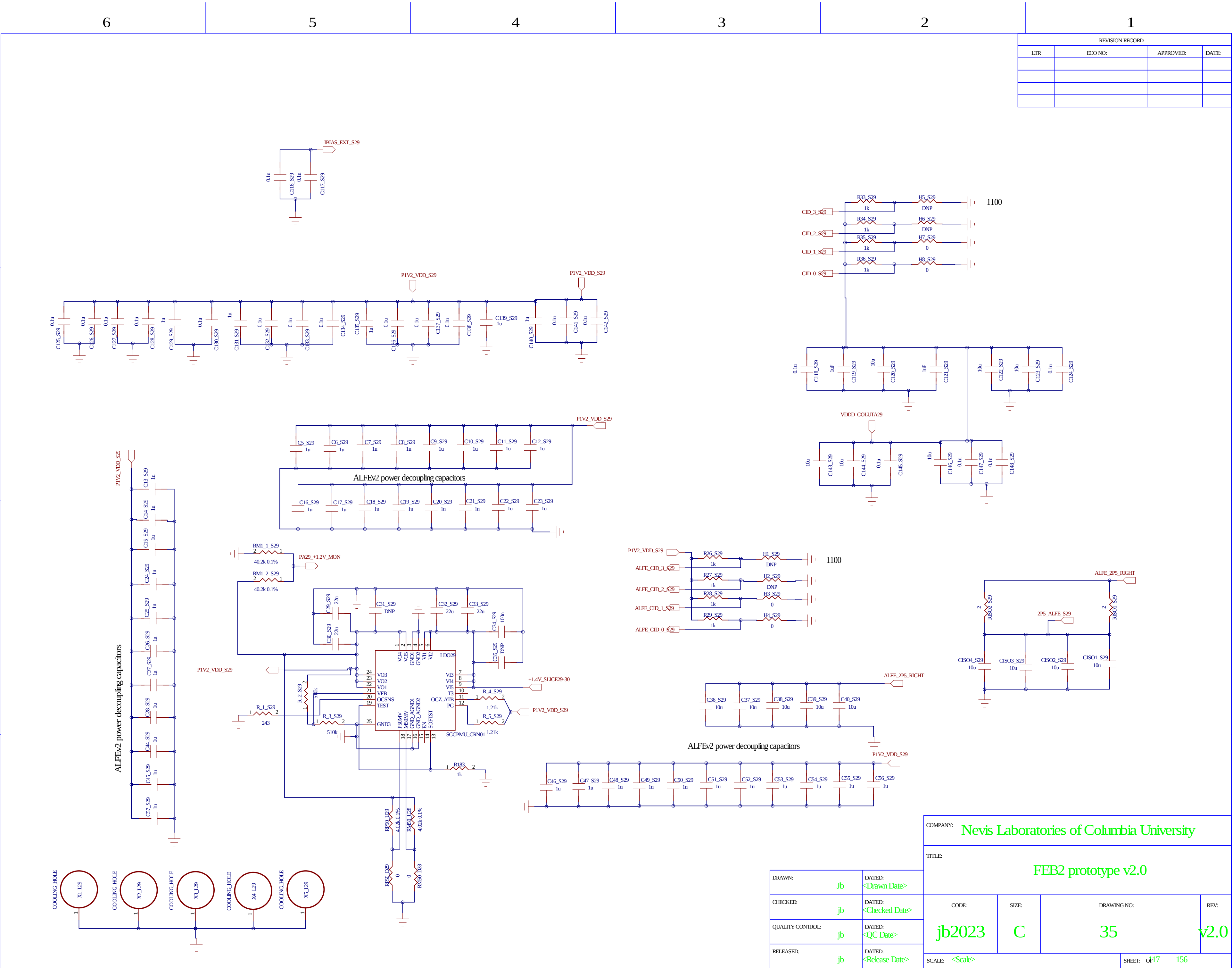
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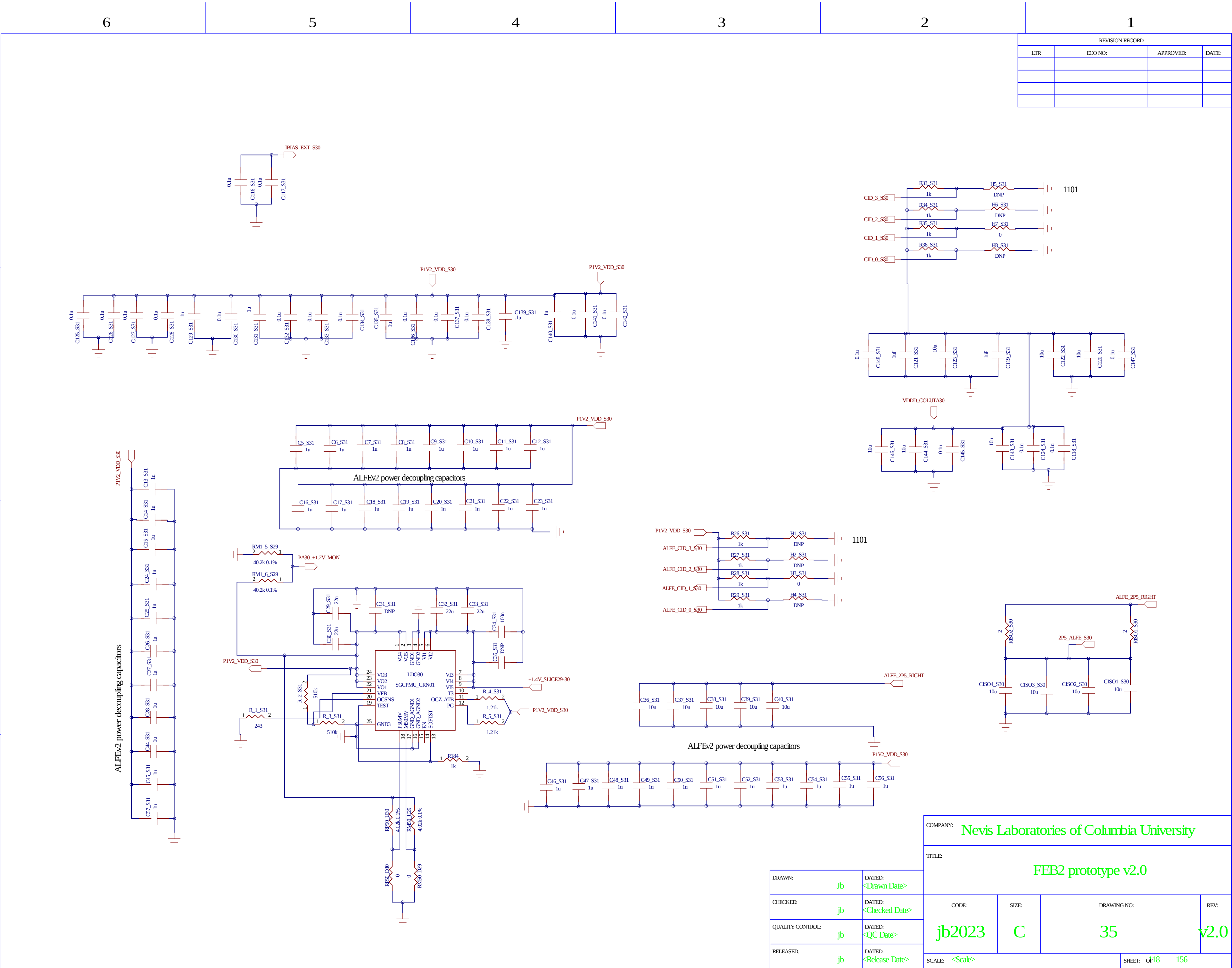
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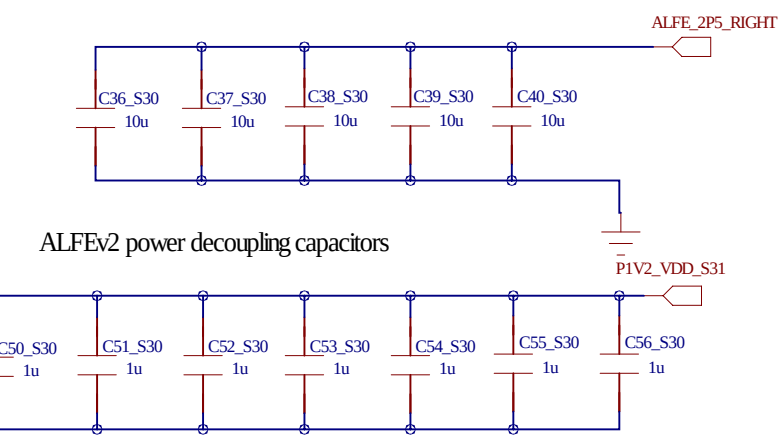
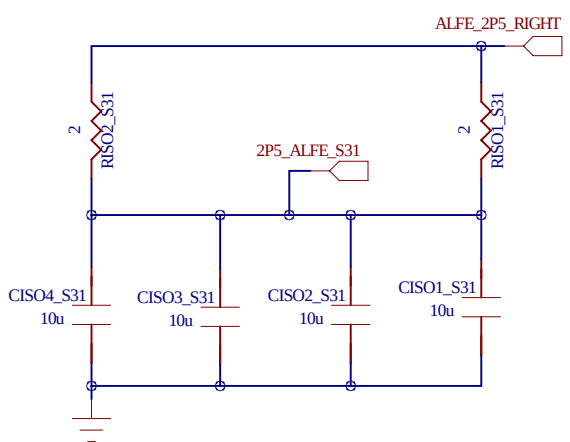
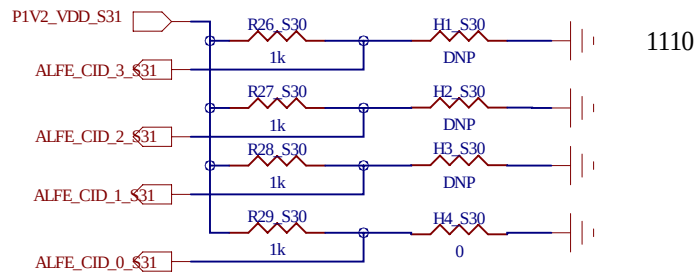
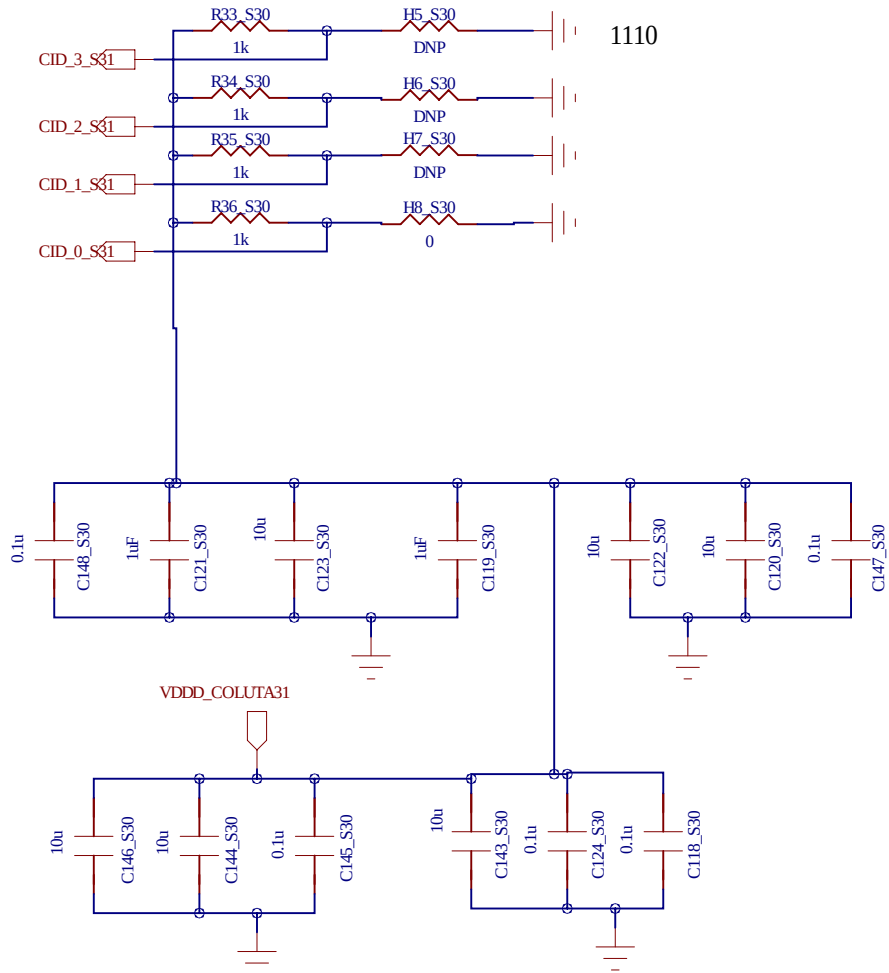
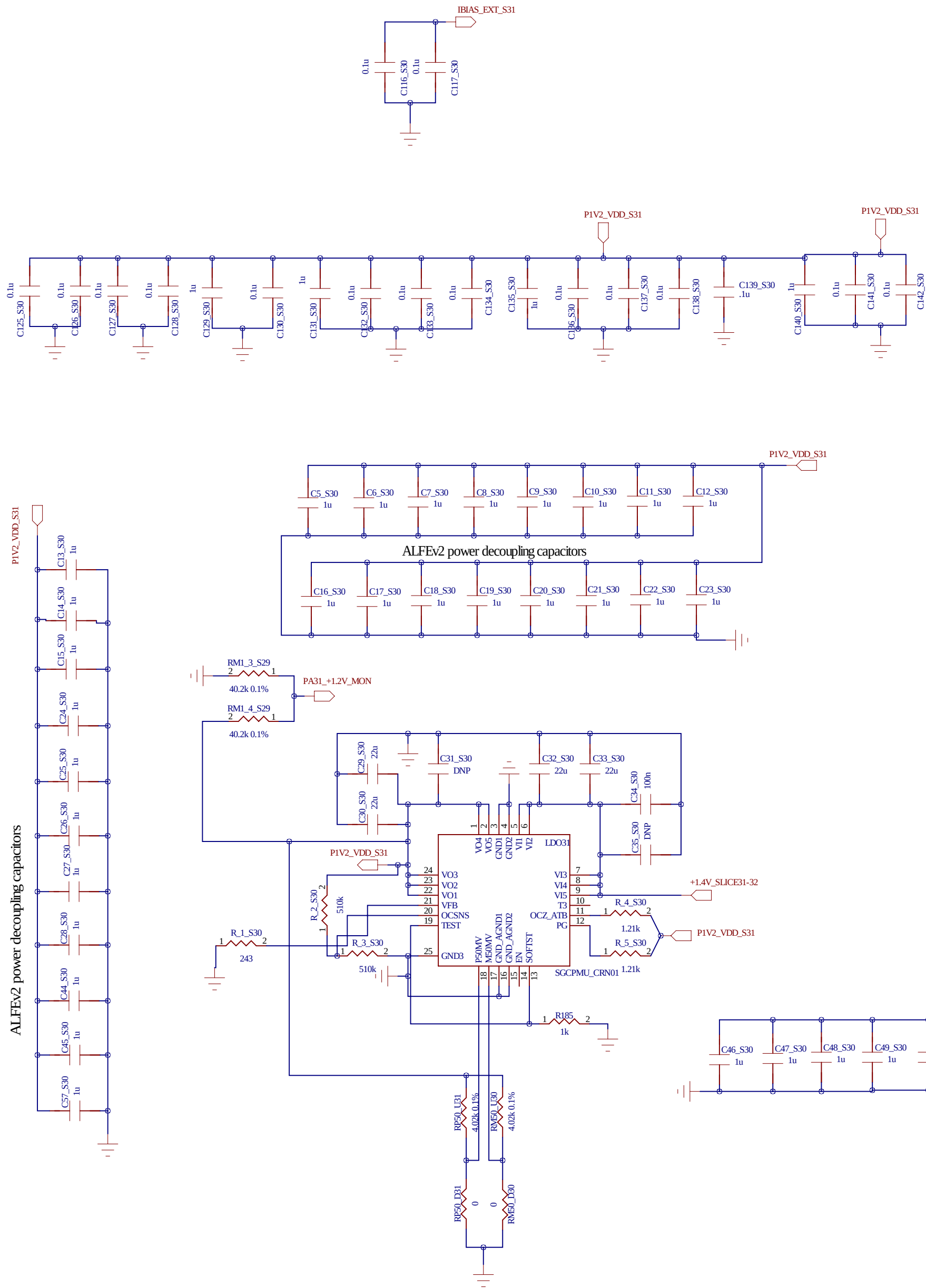
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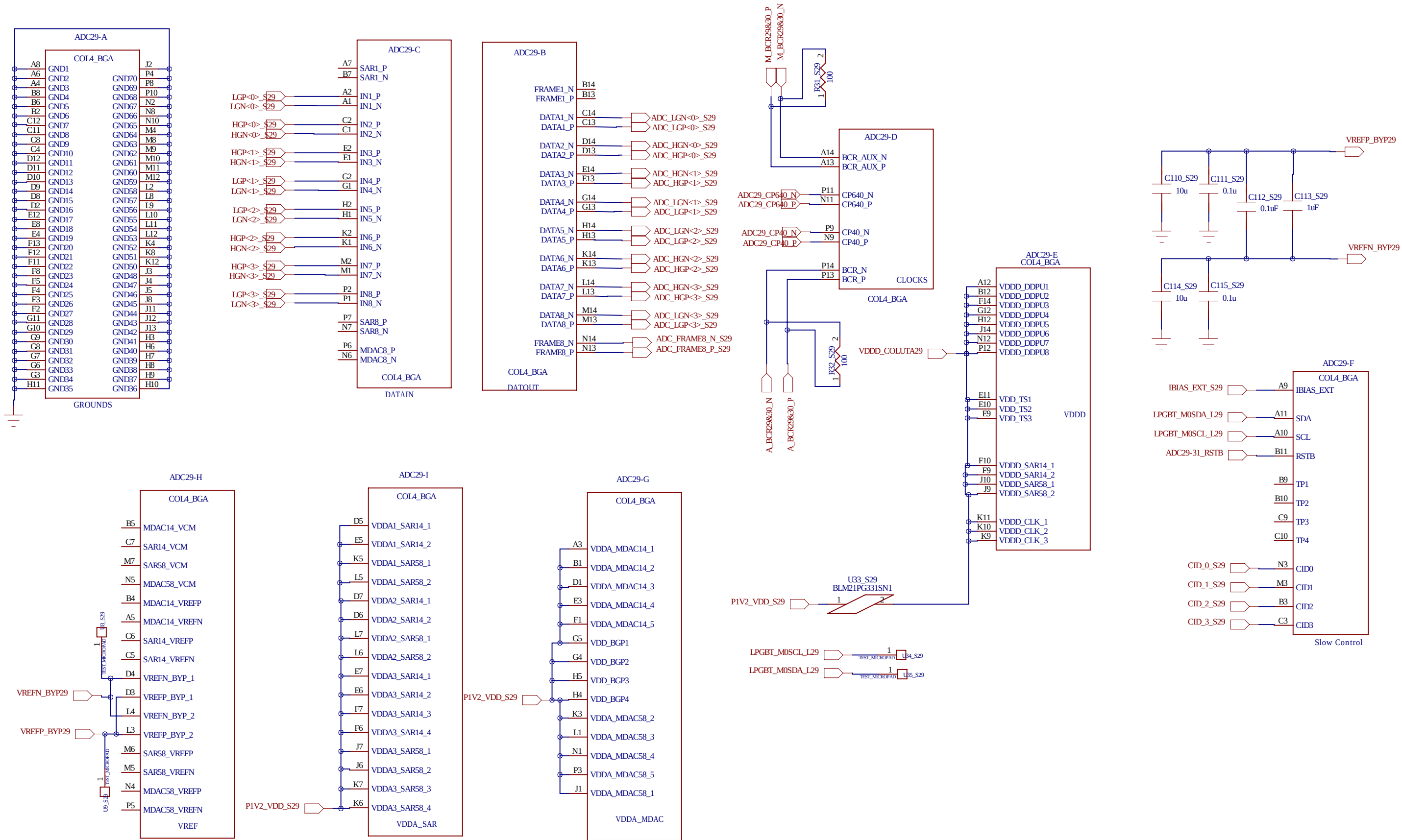
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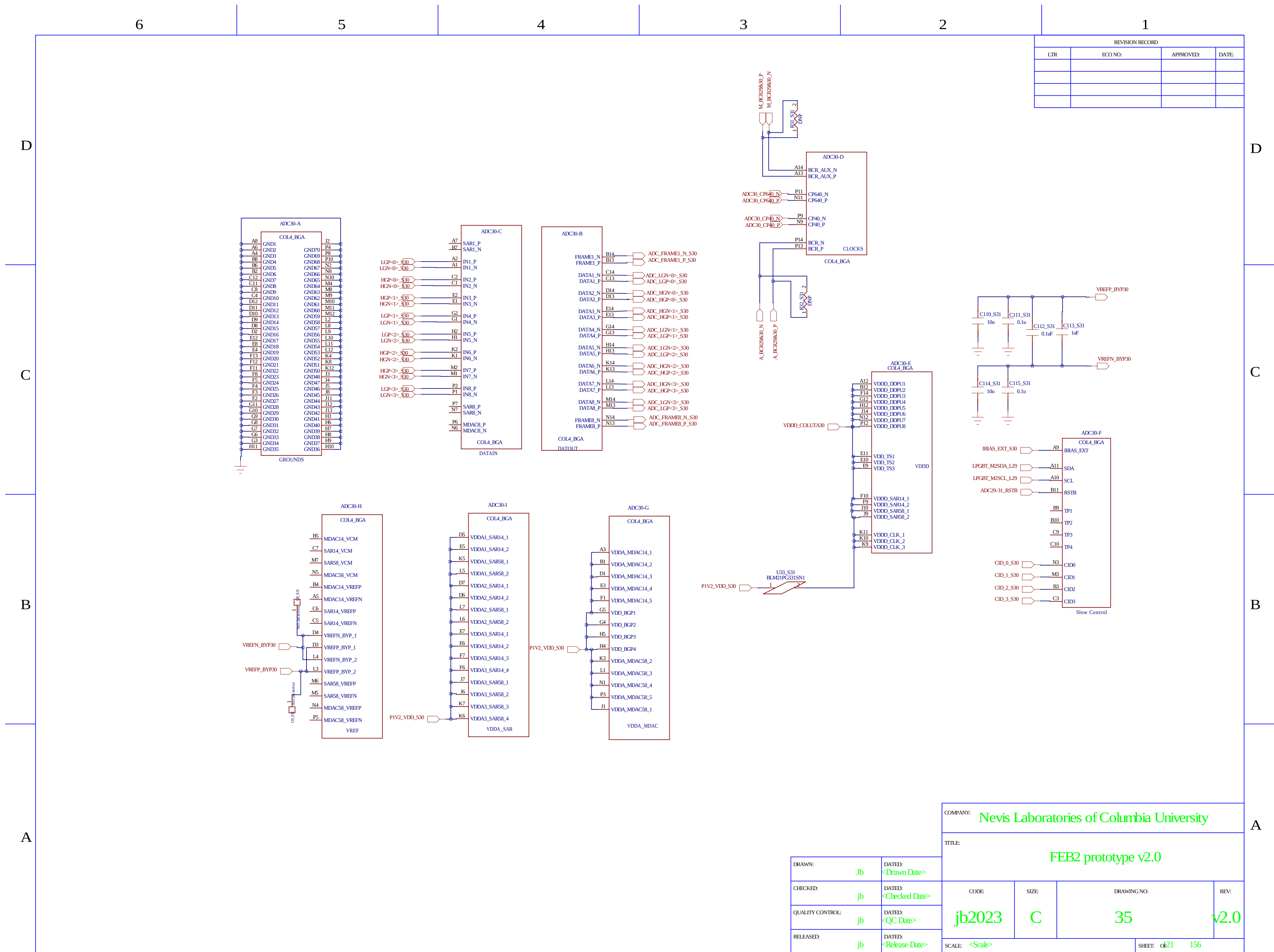
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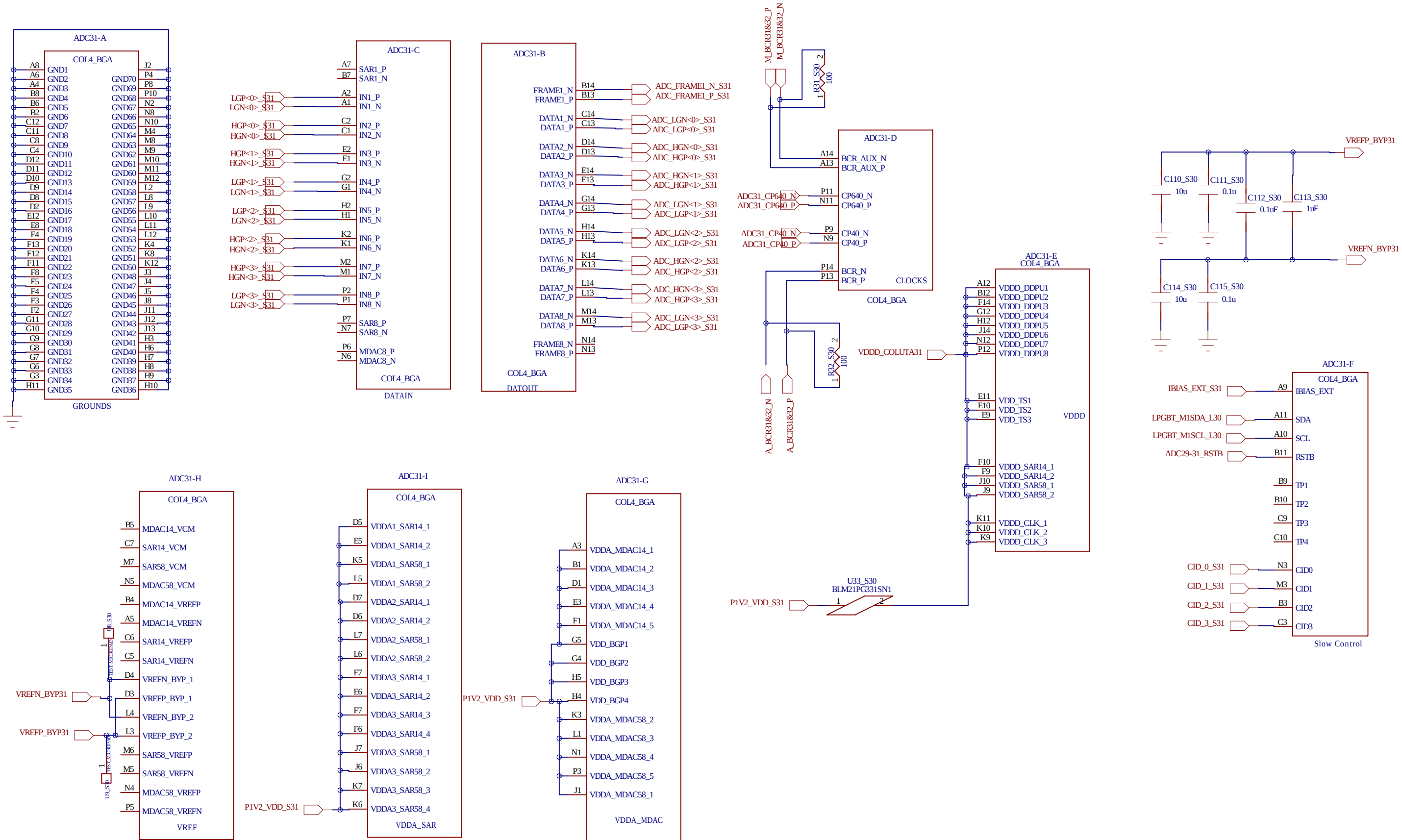
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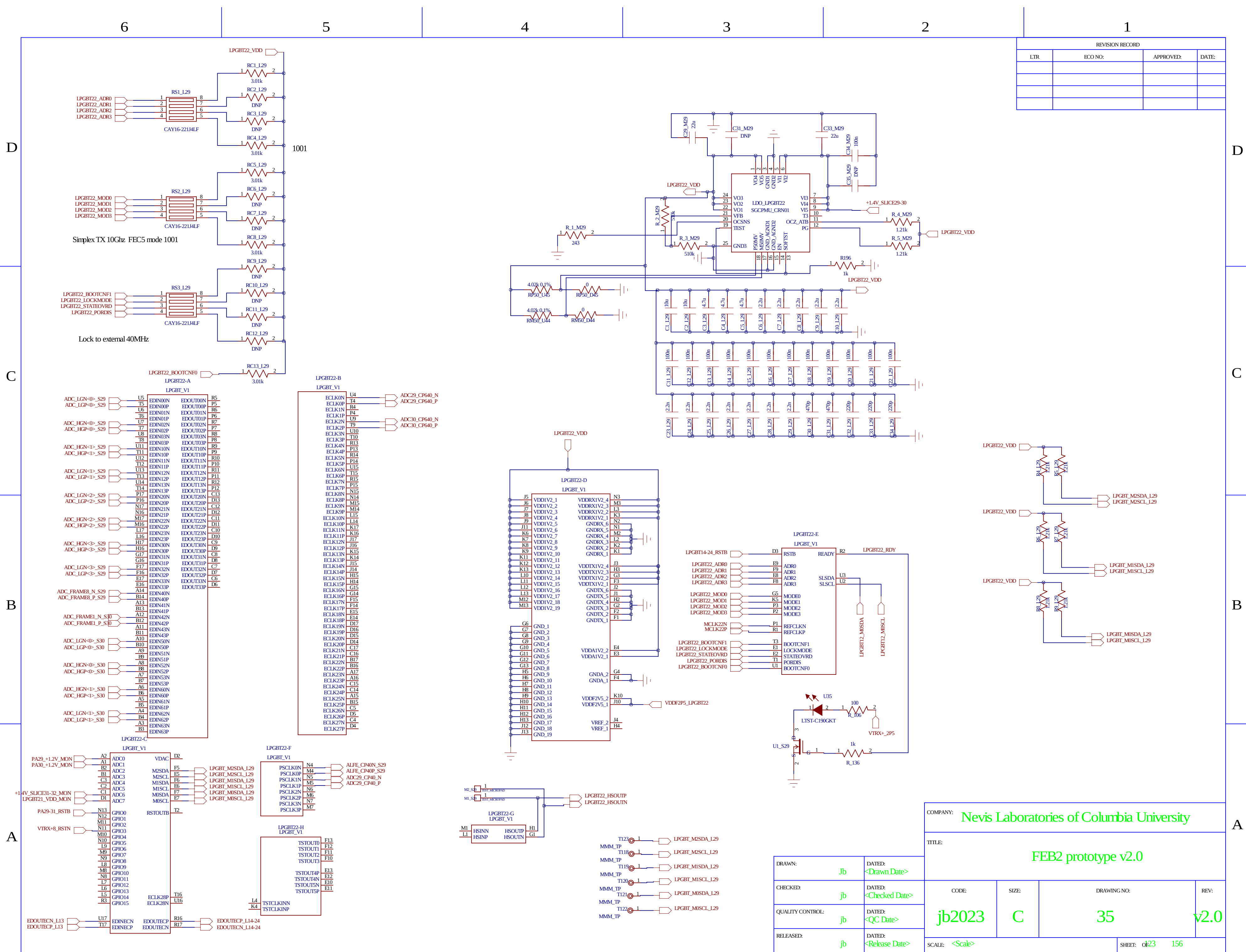
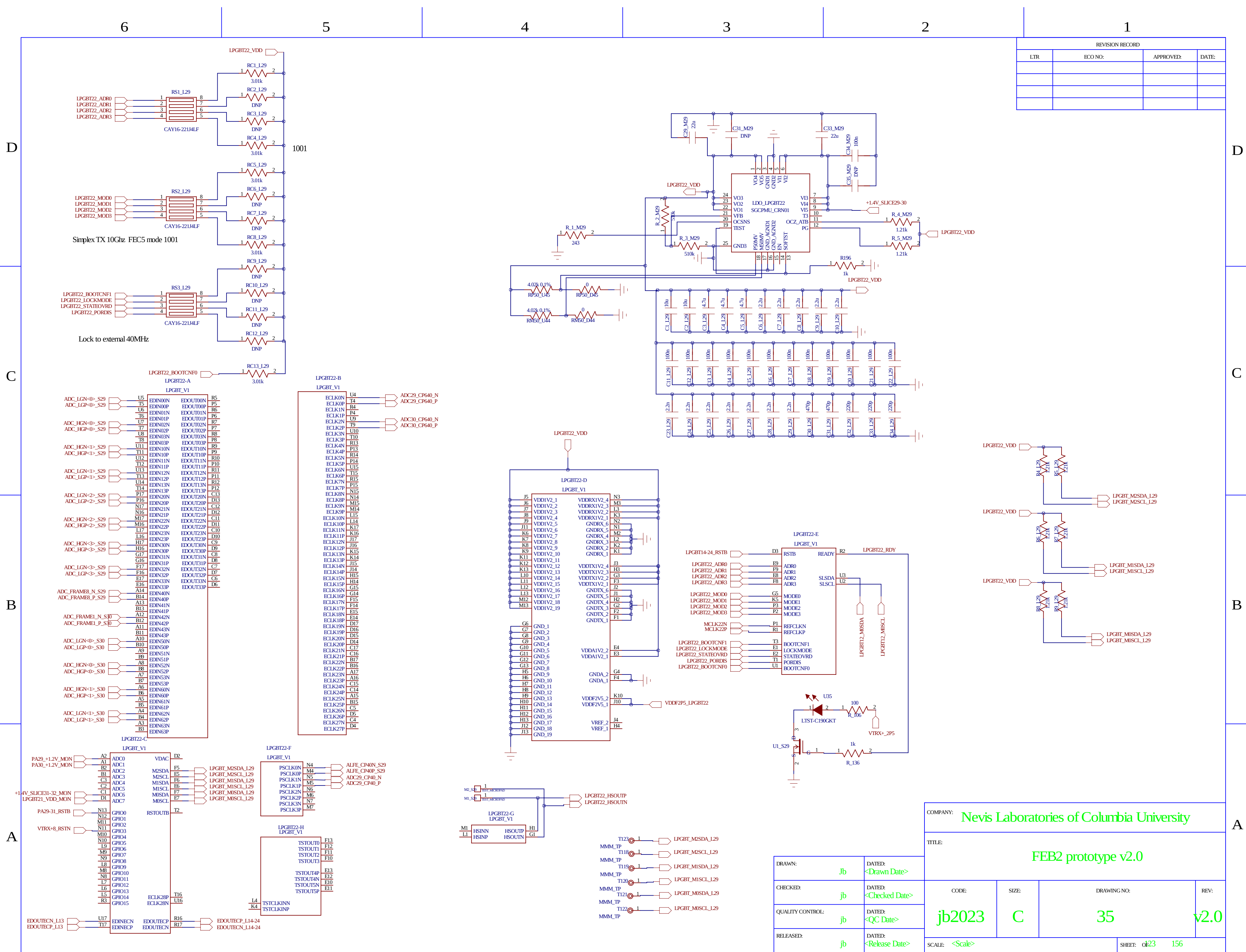
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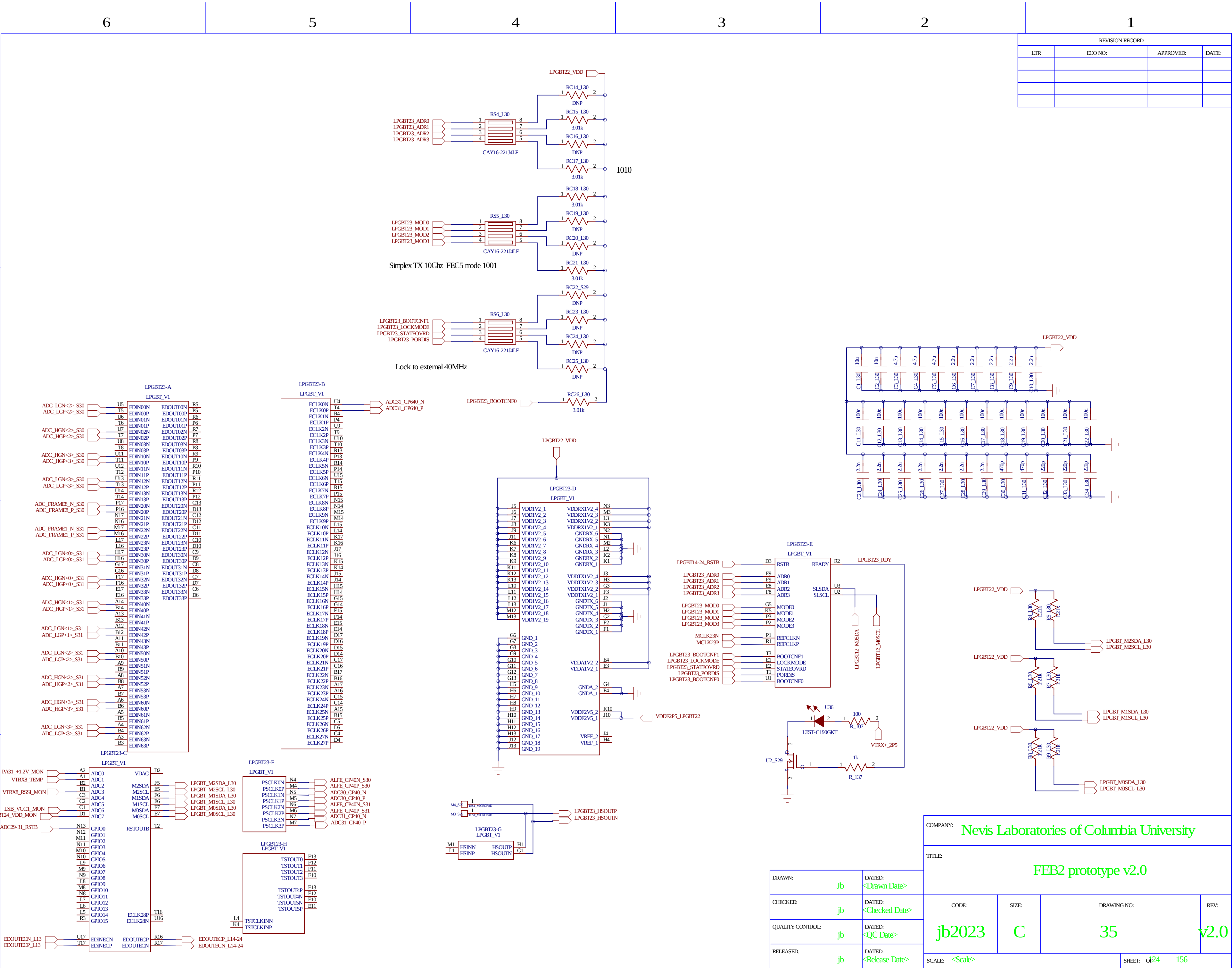


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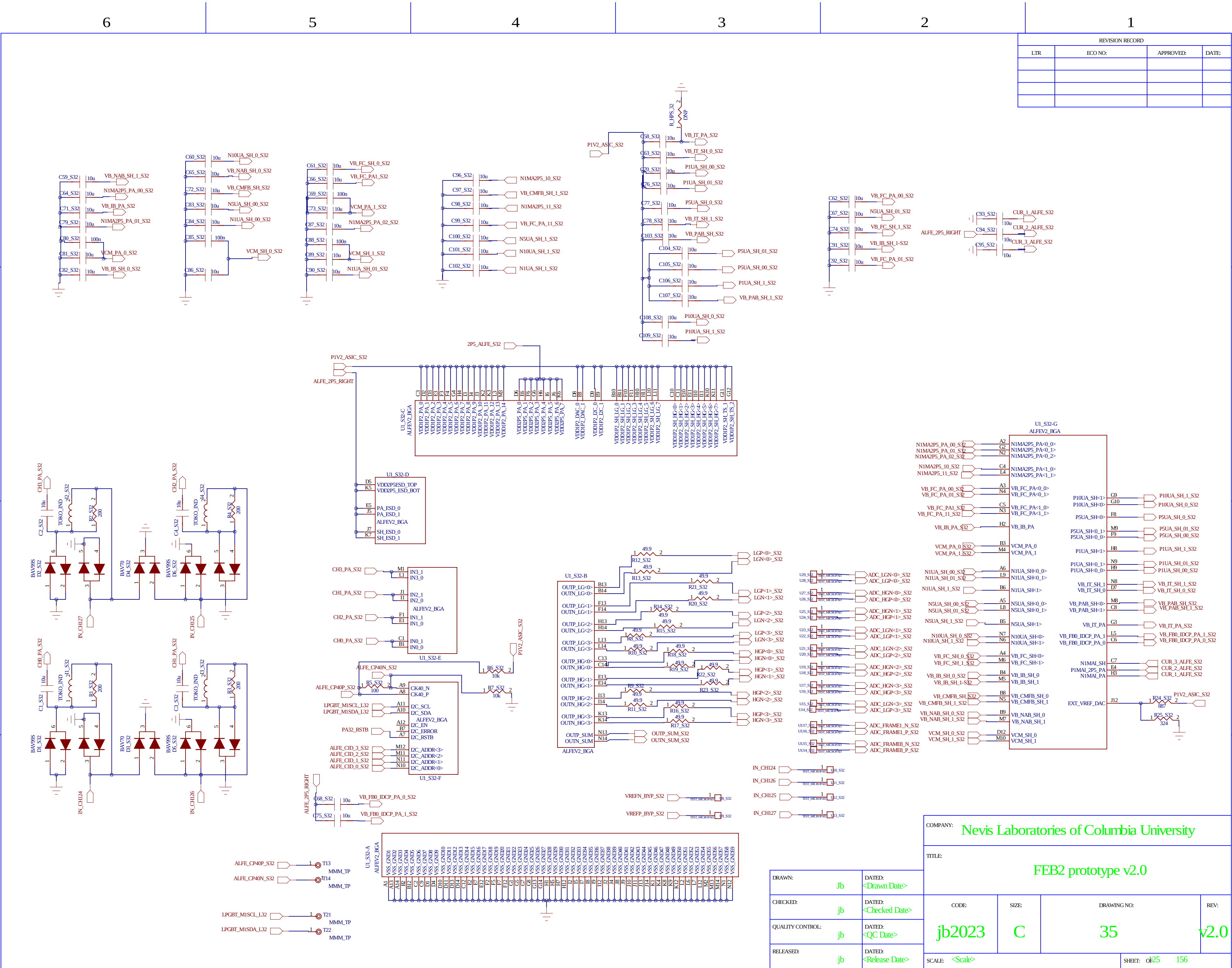
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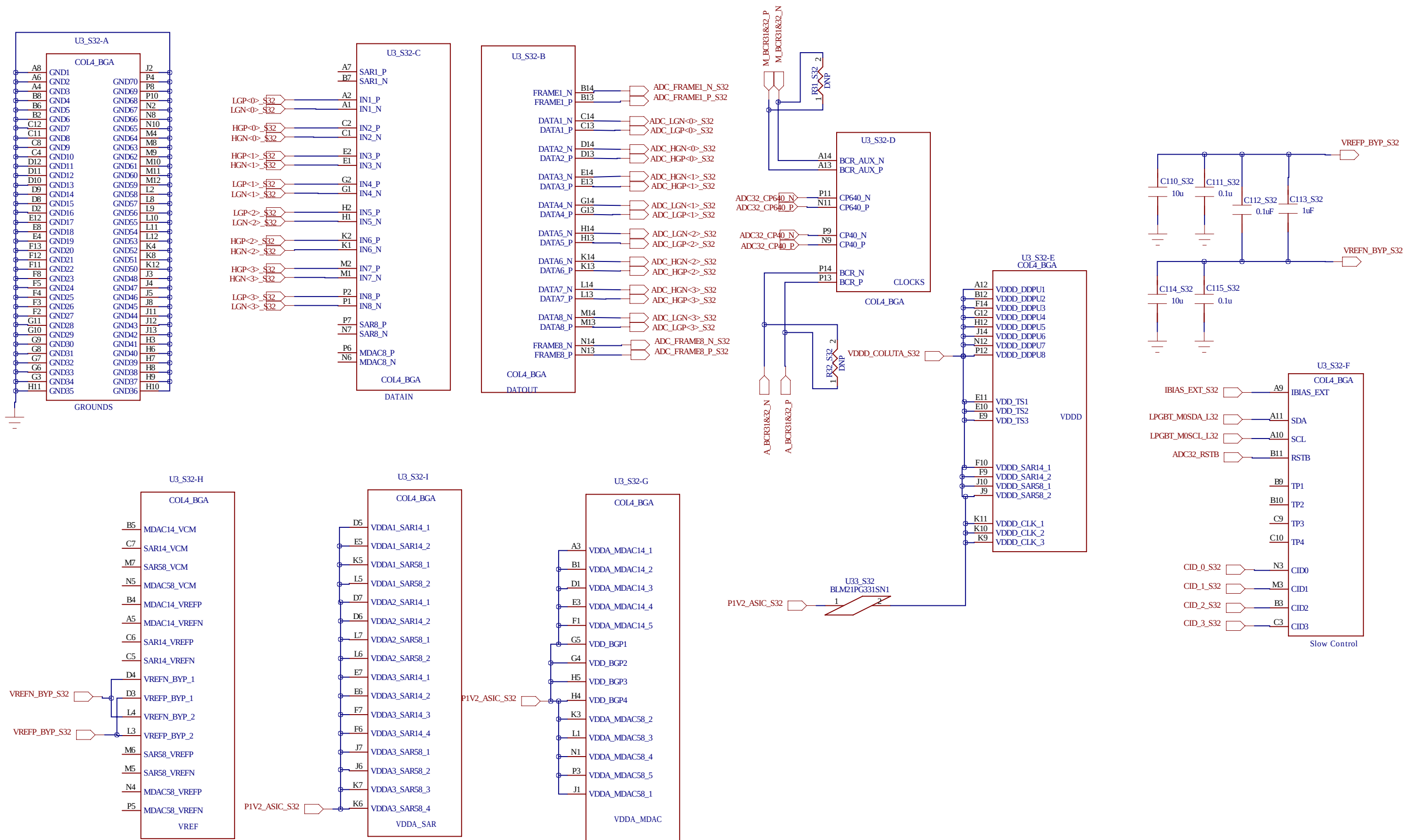
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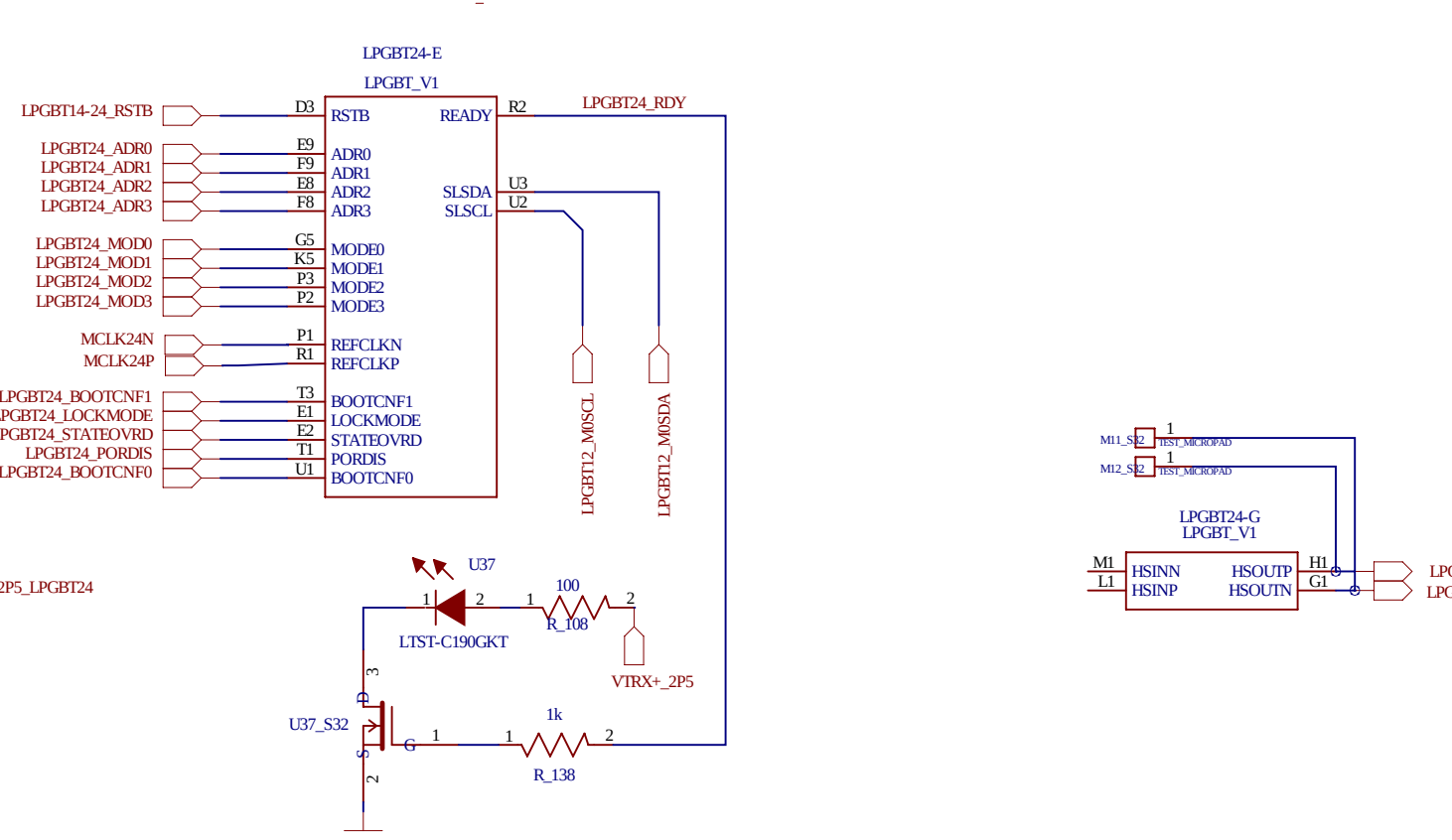
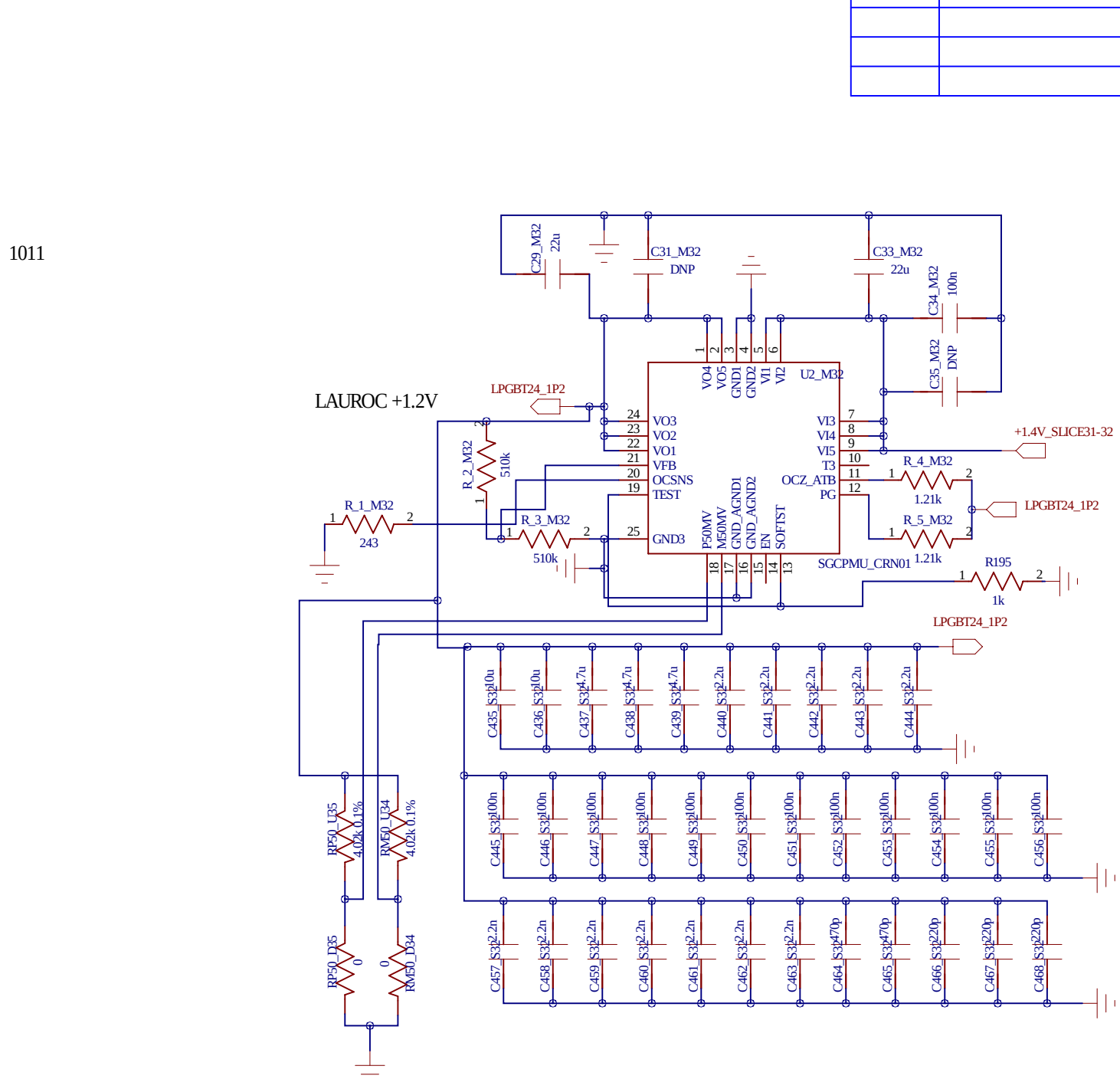
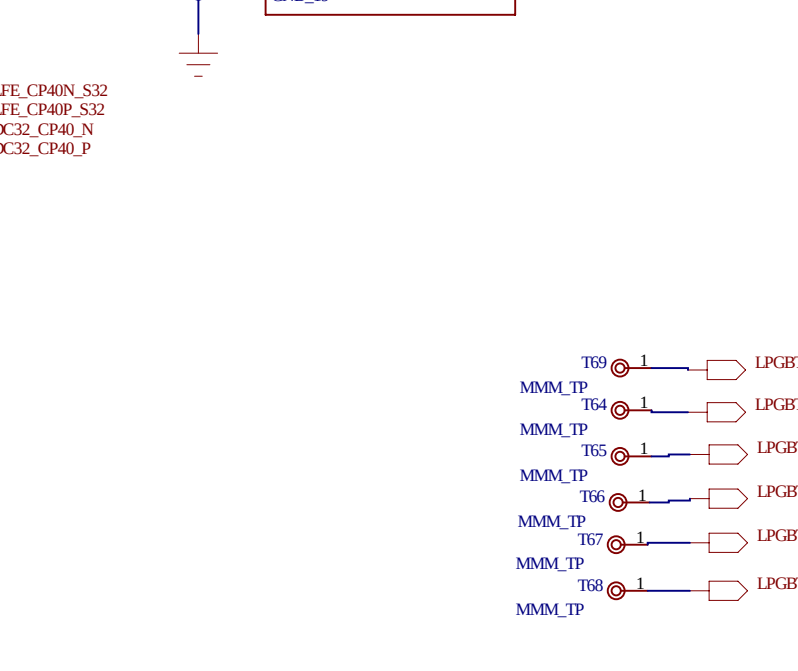
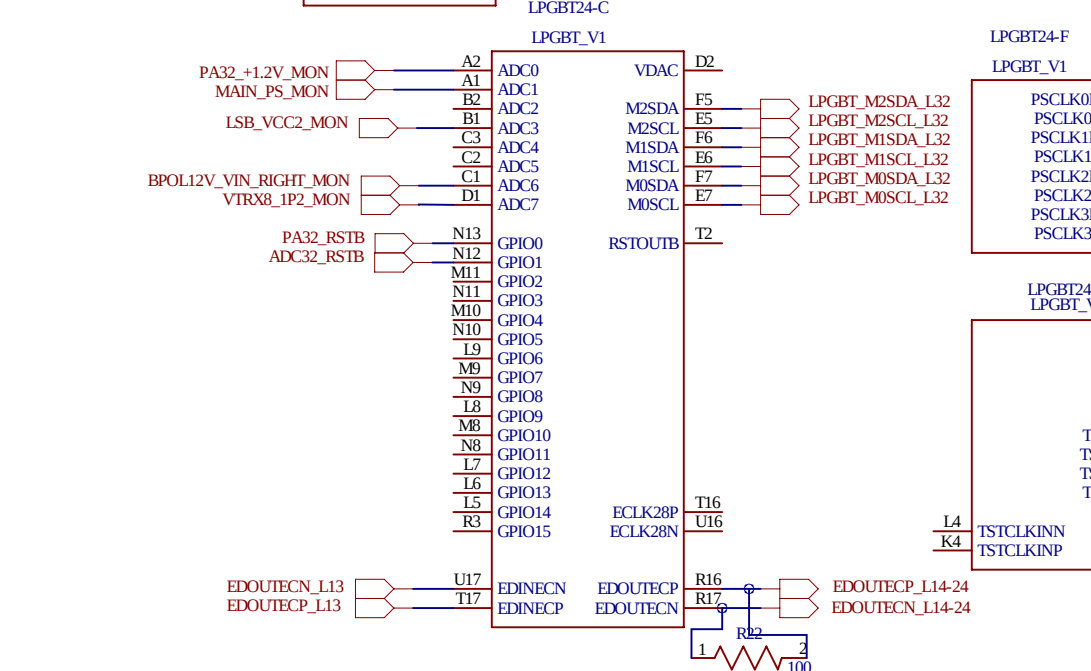
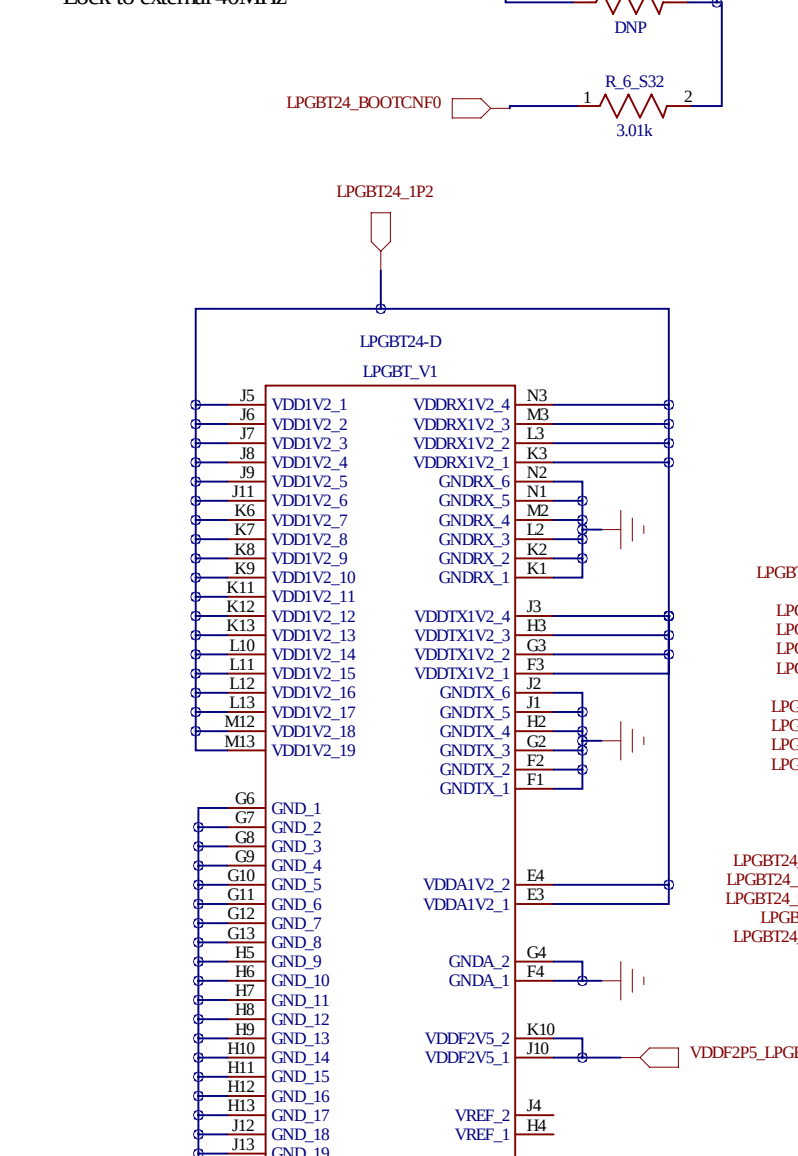
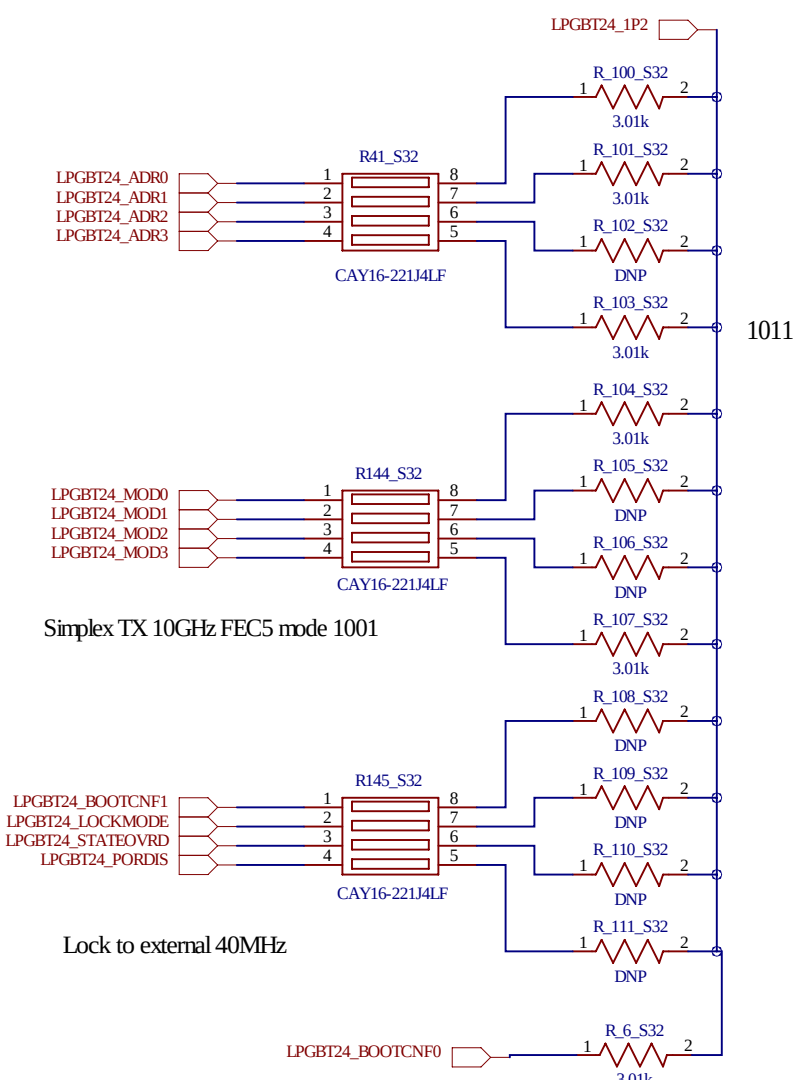
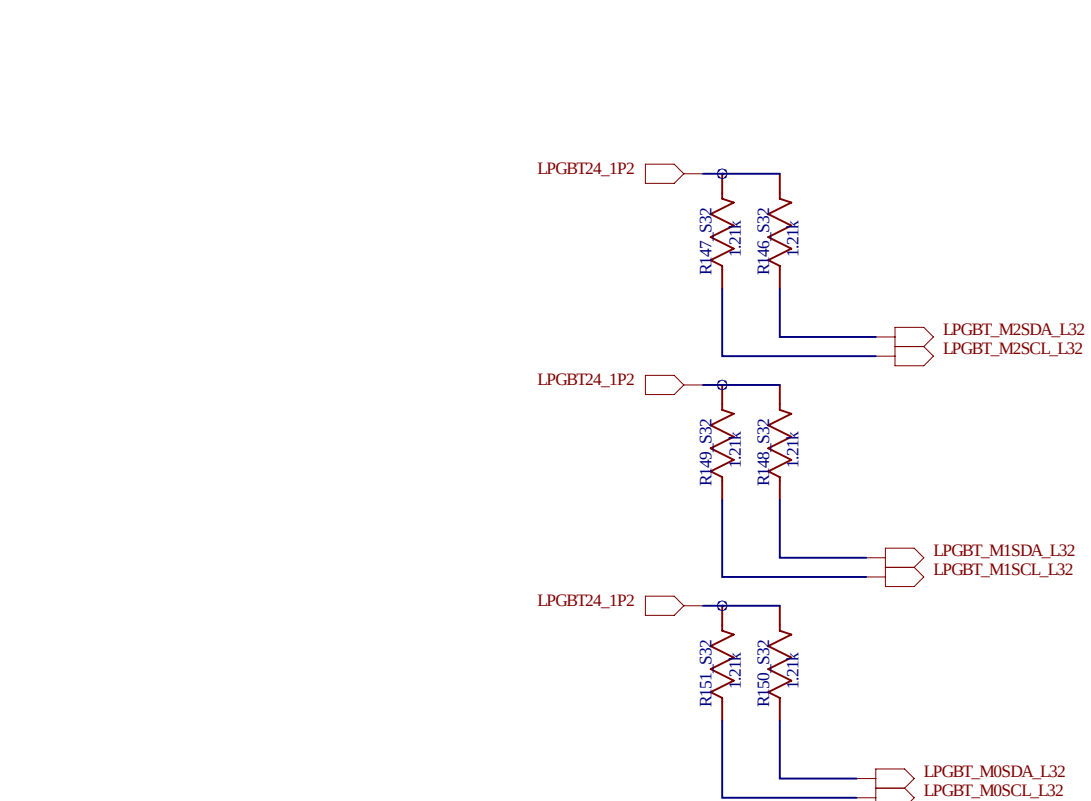
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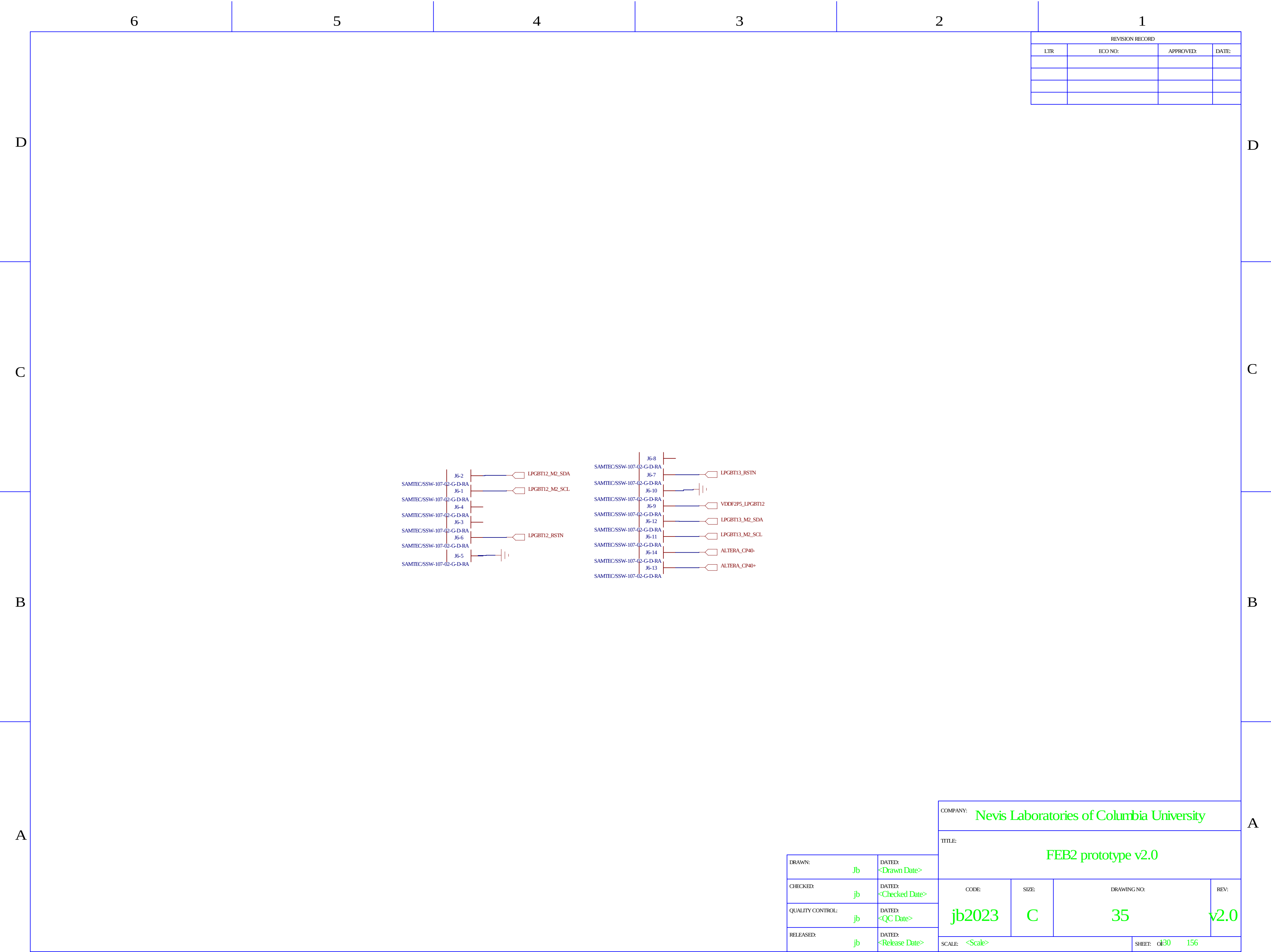
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COMPANY: Nevis Laboratories of Columbia University			
TITLE: FEB2 prototype v2.0			
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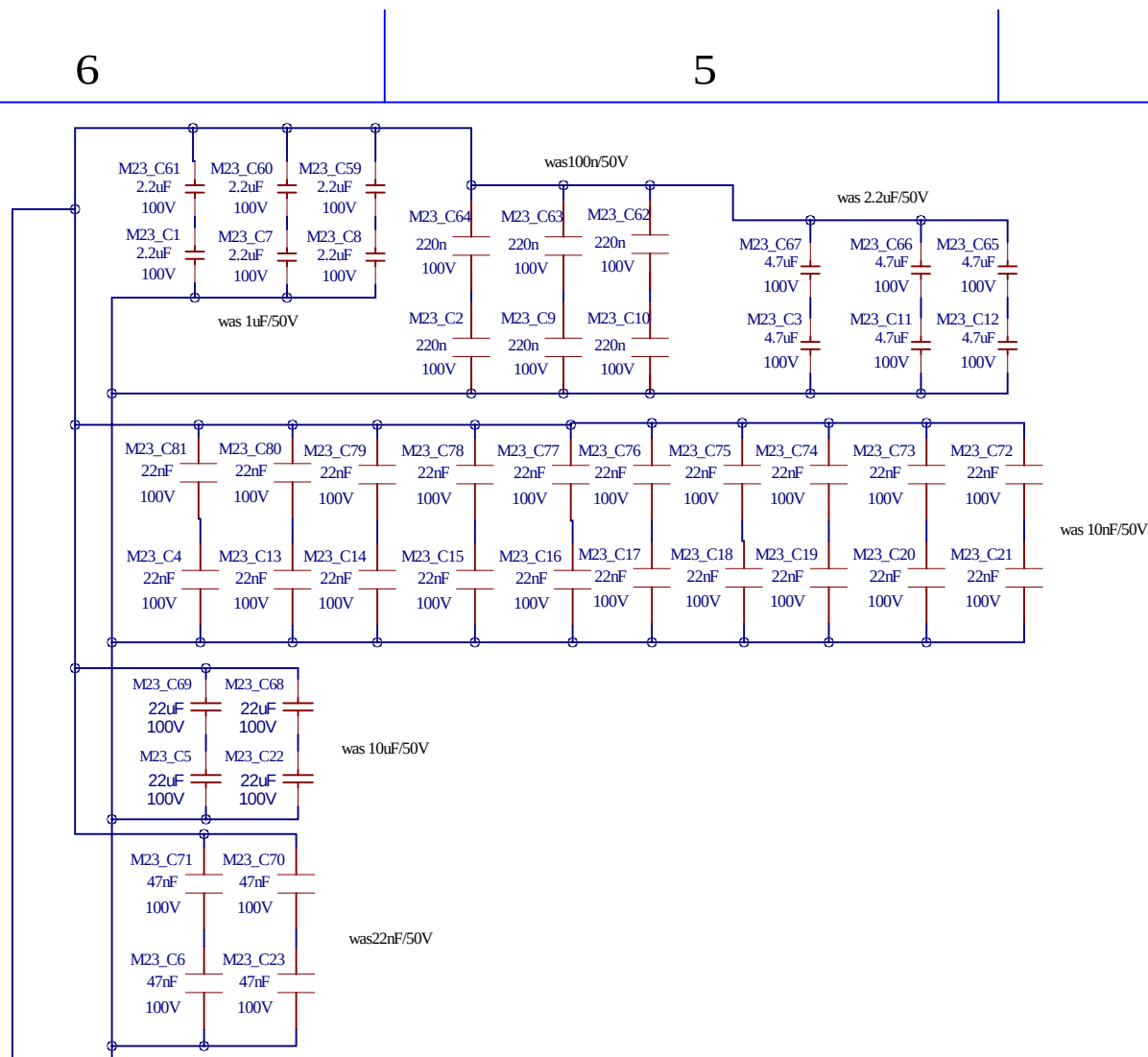


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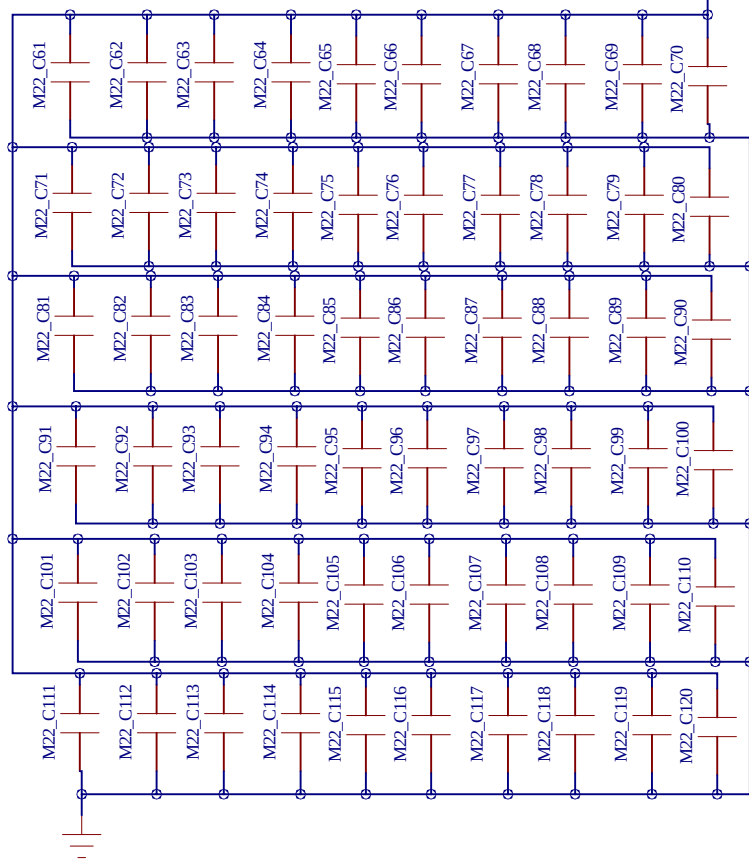
Connector top pins

Connector bottom pins

Output filters to be added separately. They are not part of bPOL12V reuse

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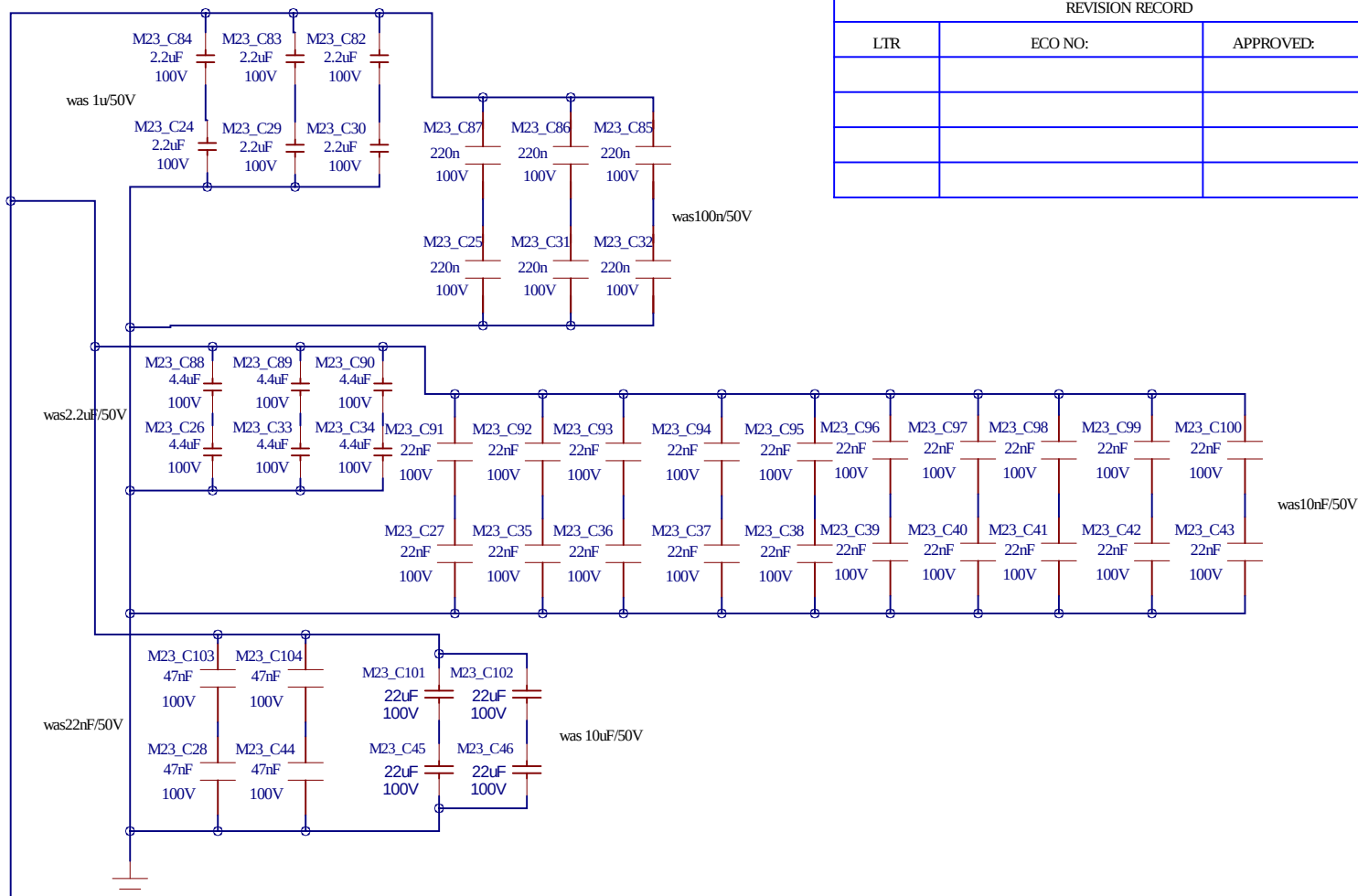
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Output filters to be added separately. They are not part of bPOL12V reuse

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Connector top pins

Connector bottom pins

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TITLE: FEB2 prototype v2.0

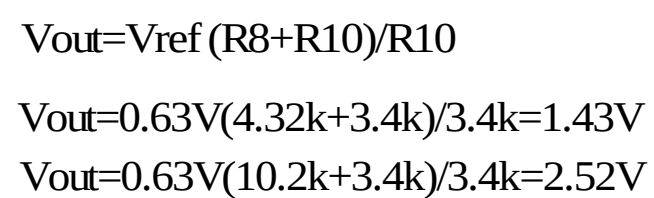
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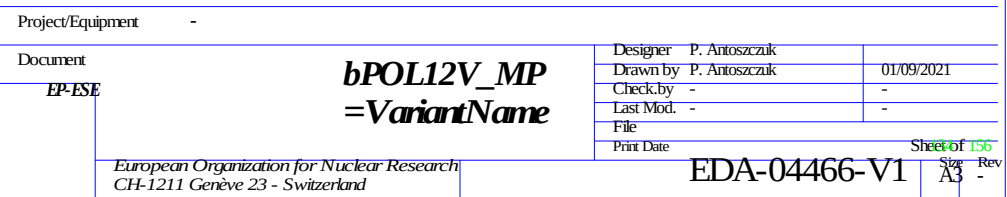
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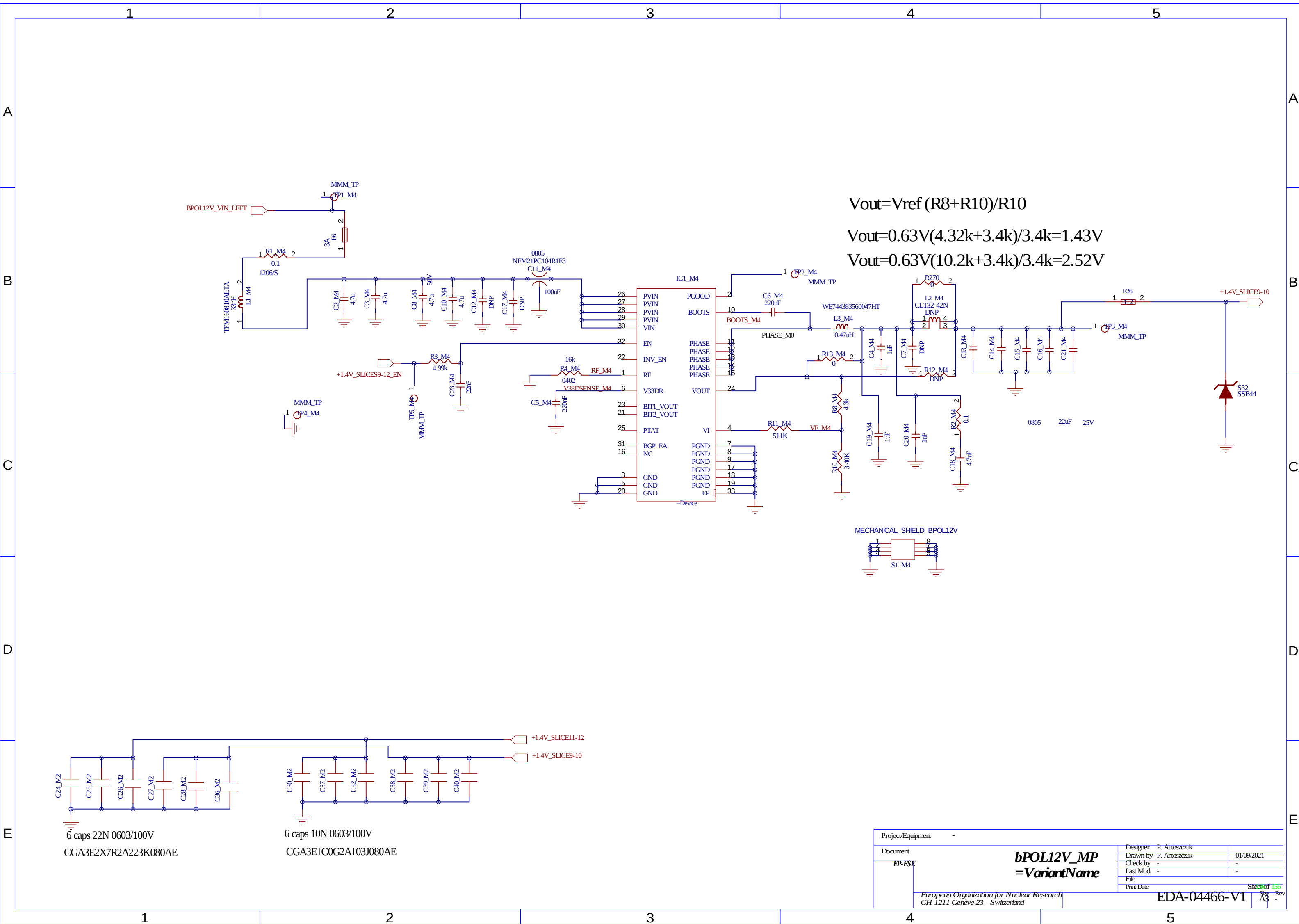
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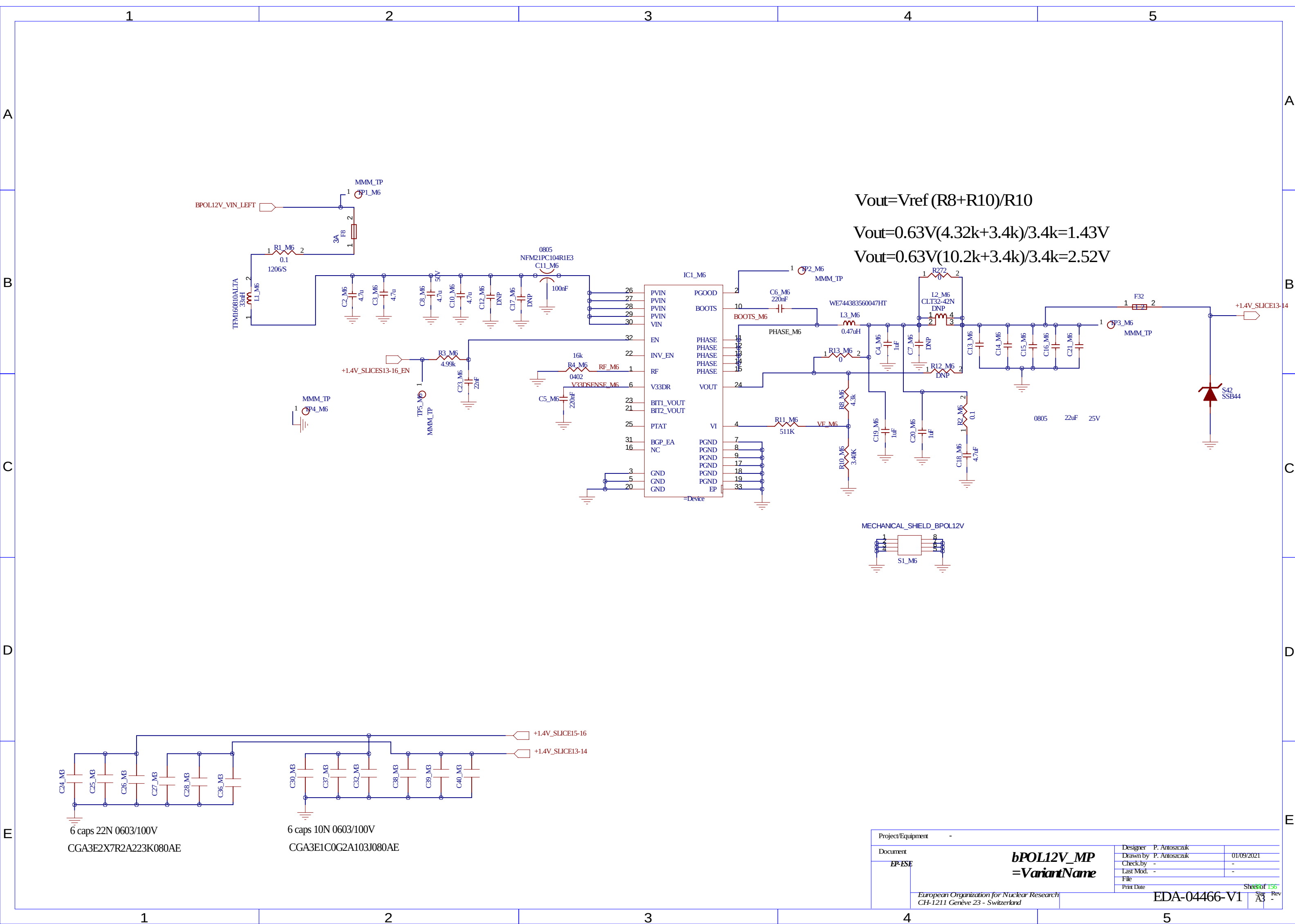


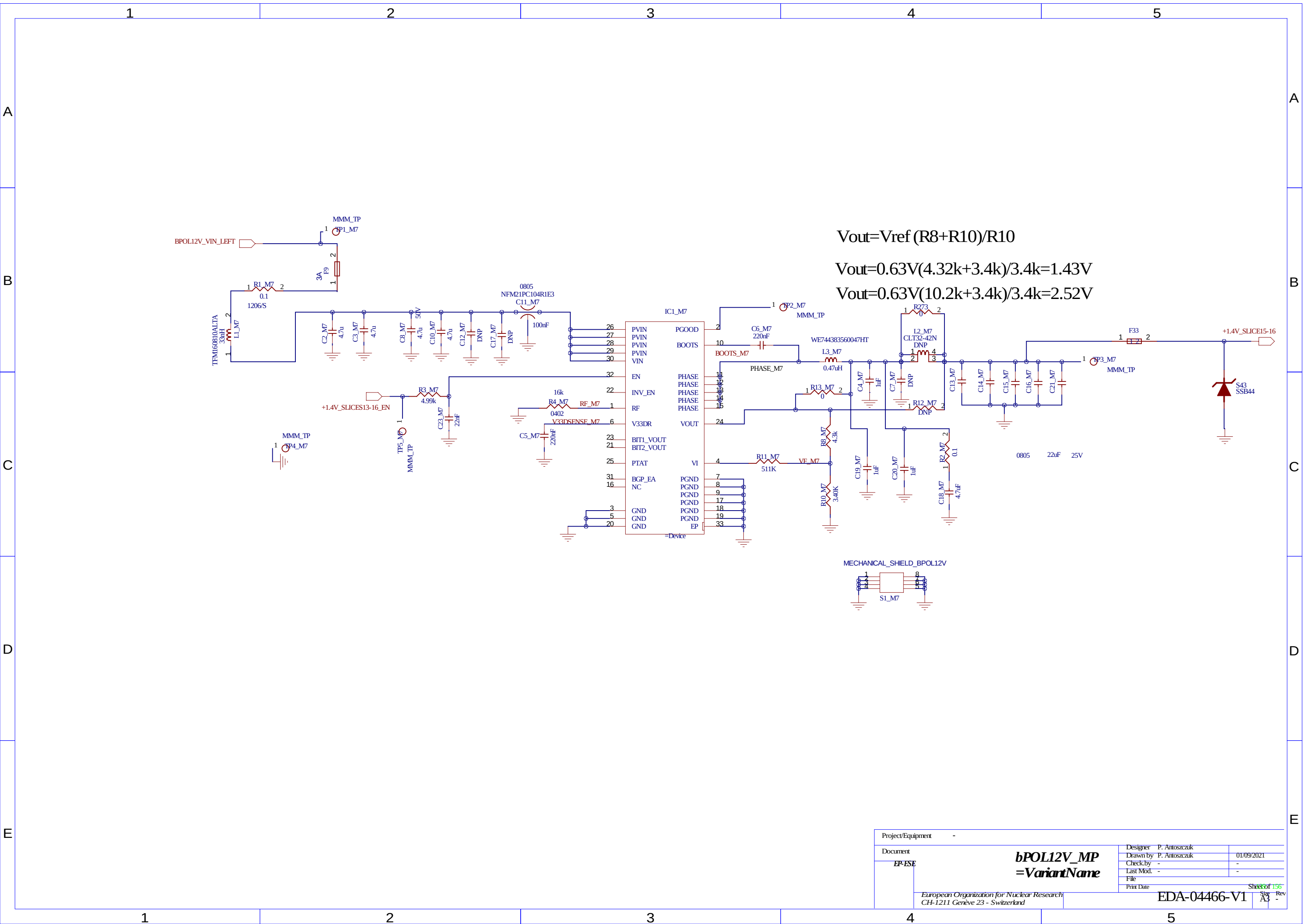
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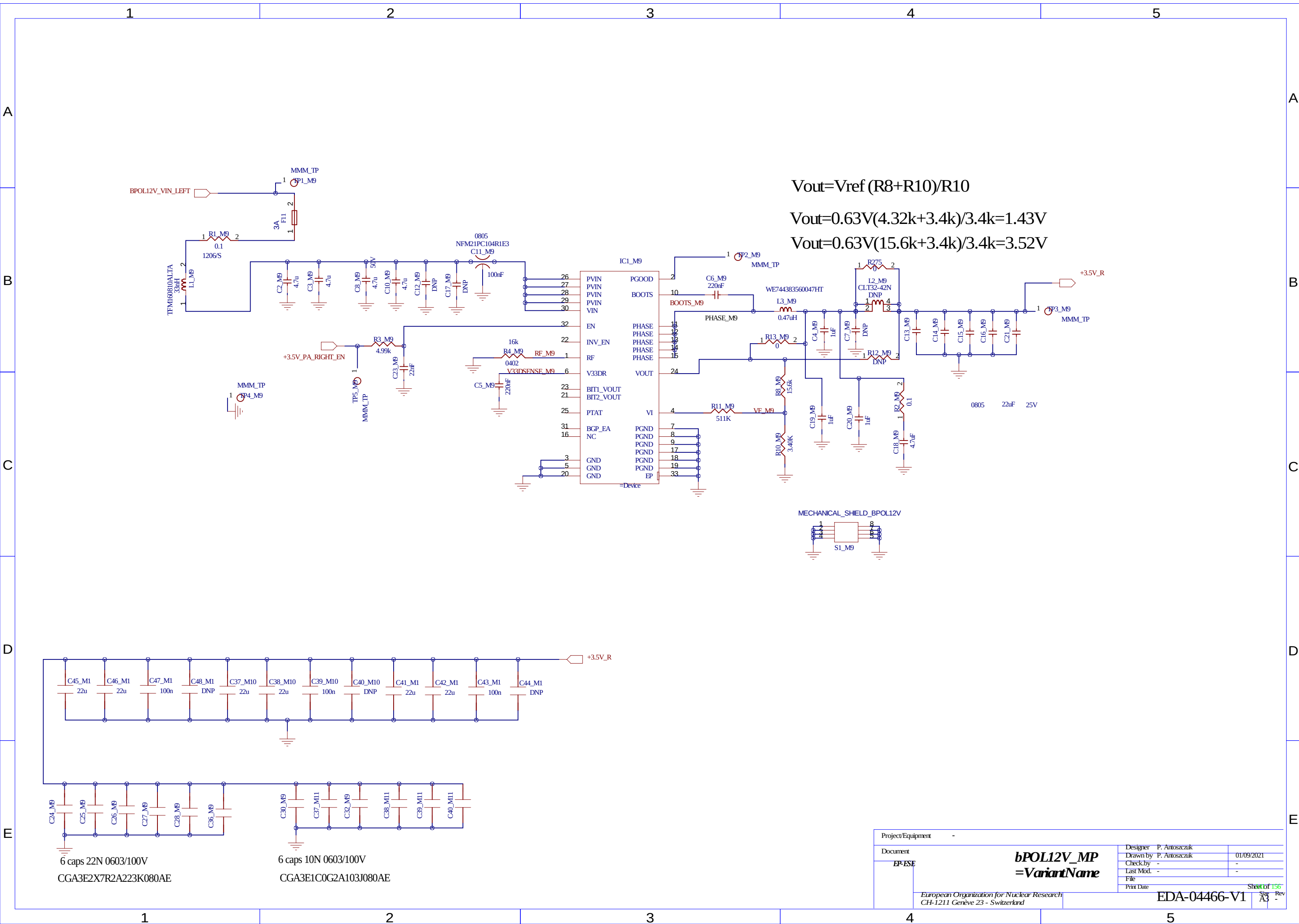










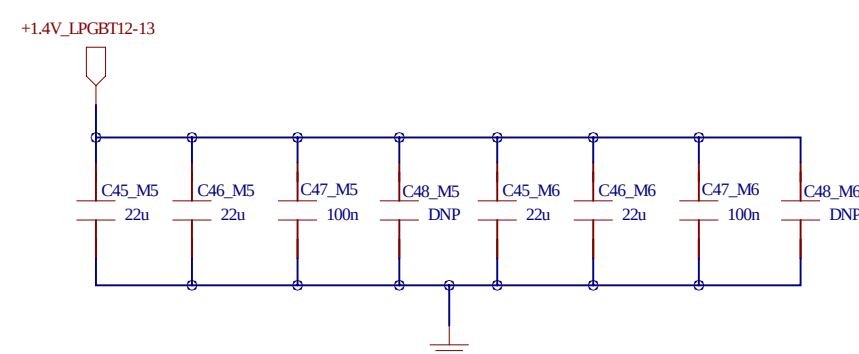
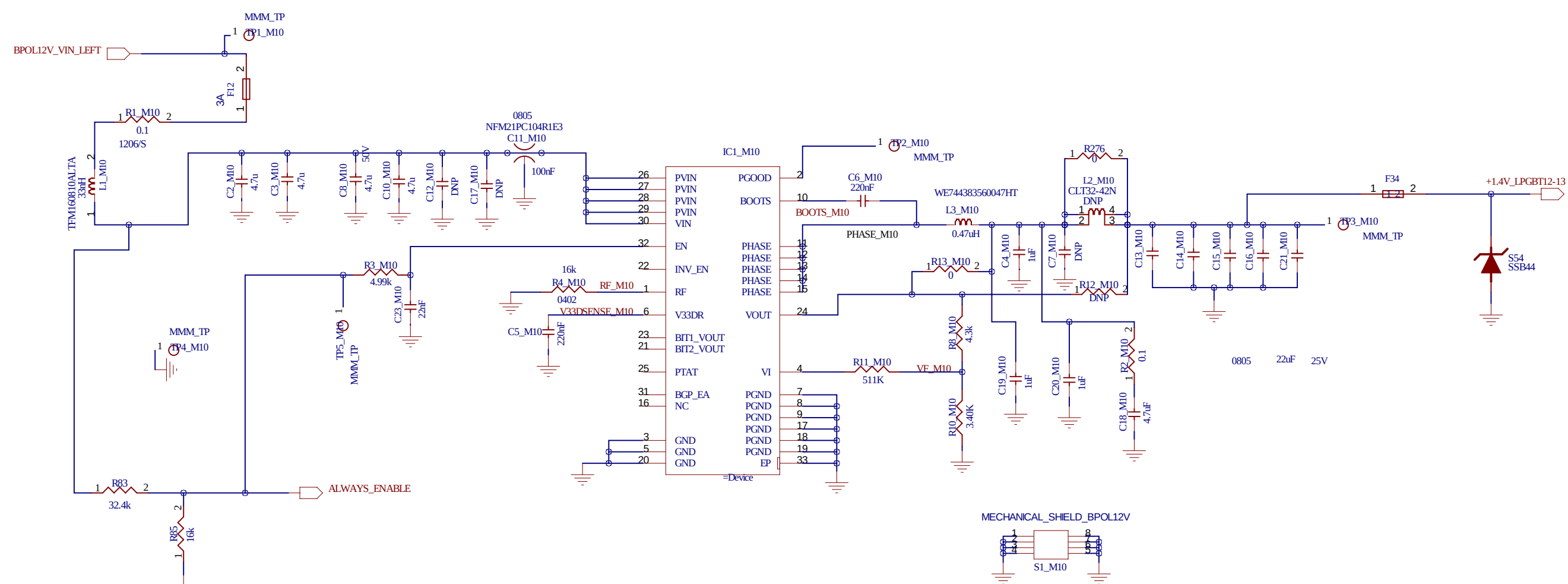


$$V_{out}=V_{ref} (R8+R10)/R10$$

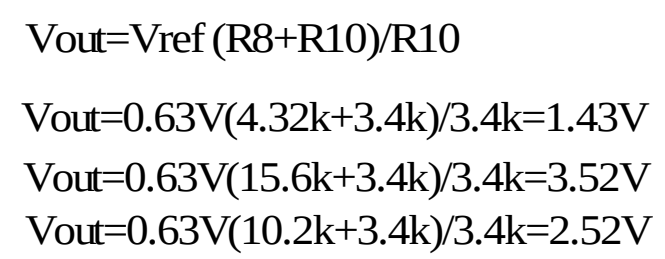
$$V_{out}=0.63V(4.32k+3.4k)/3.4k=1.43V$$

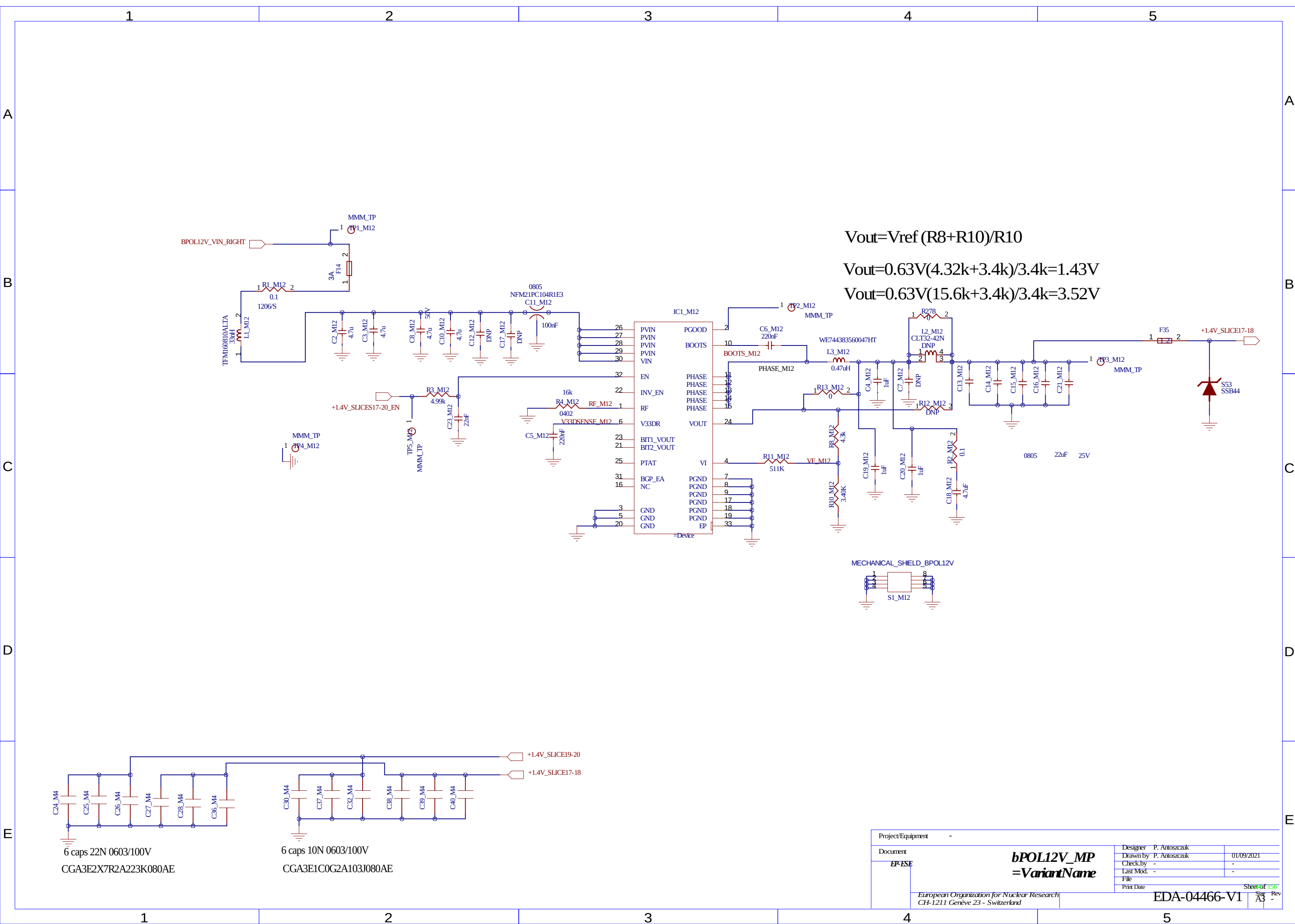
$$V_{out}=0.63V(15.6k+3.4k)/3.4k=3.52V$$

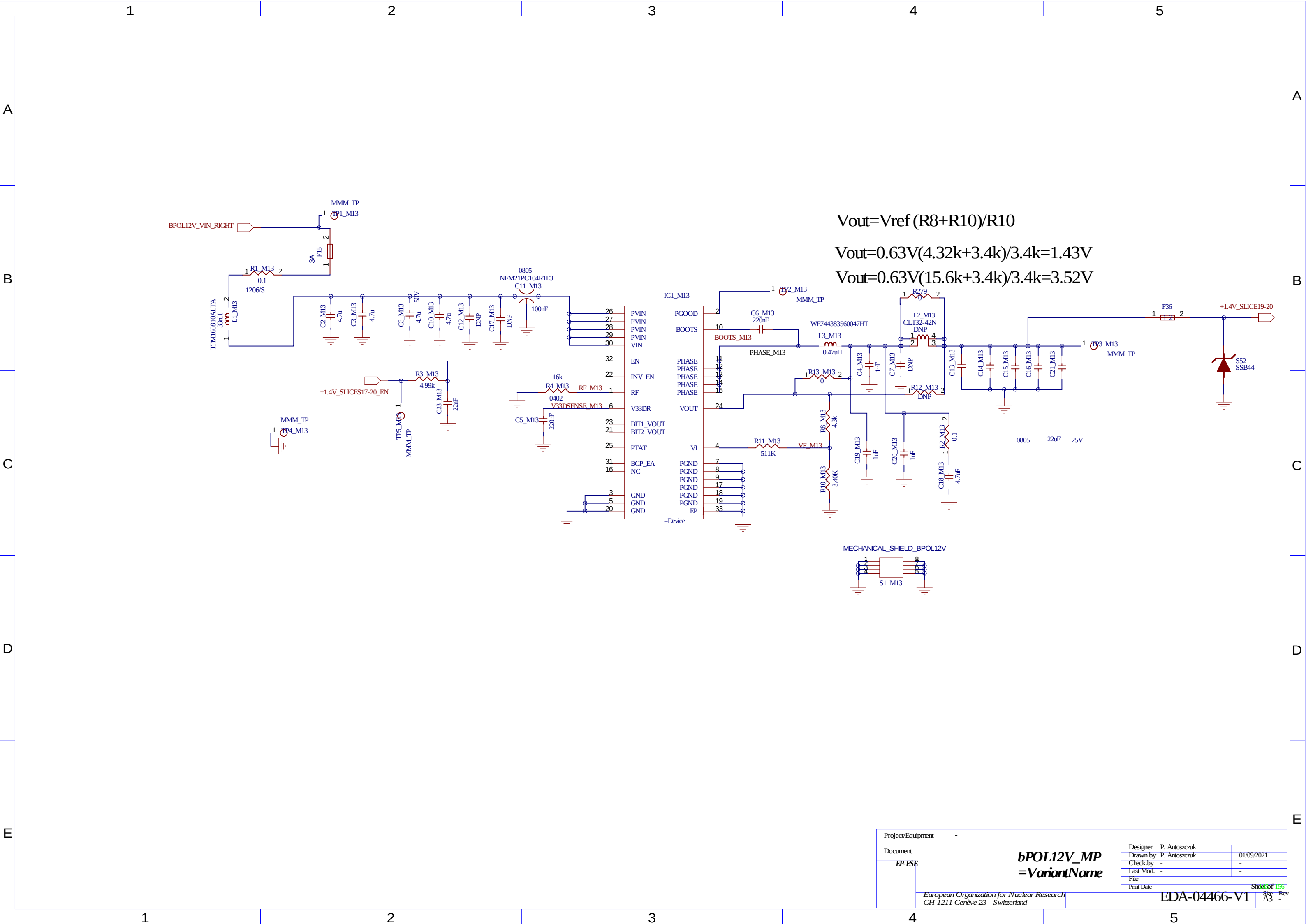
$$V_{out} = 0.63V(10.2k + 3.4k)/3.4k = 2.52V$$

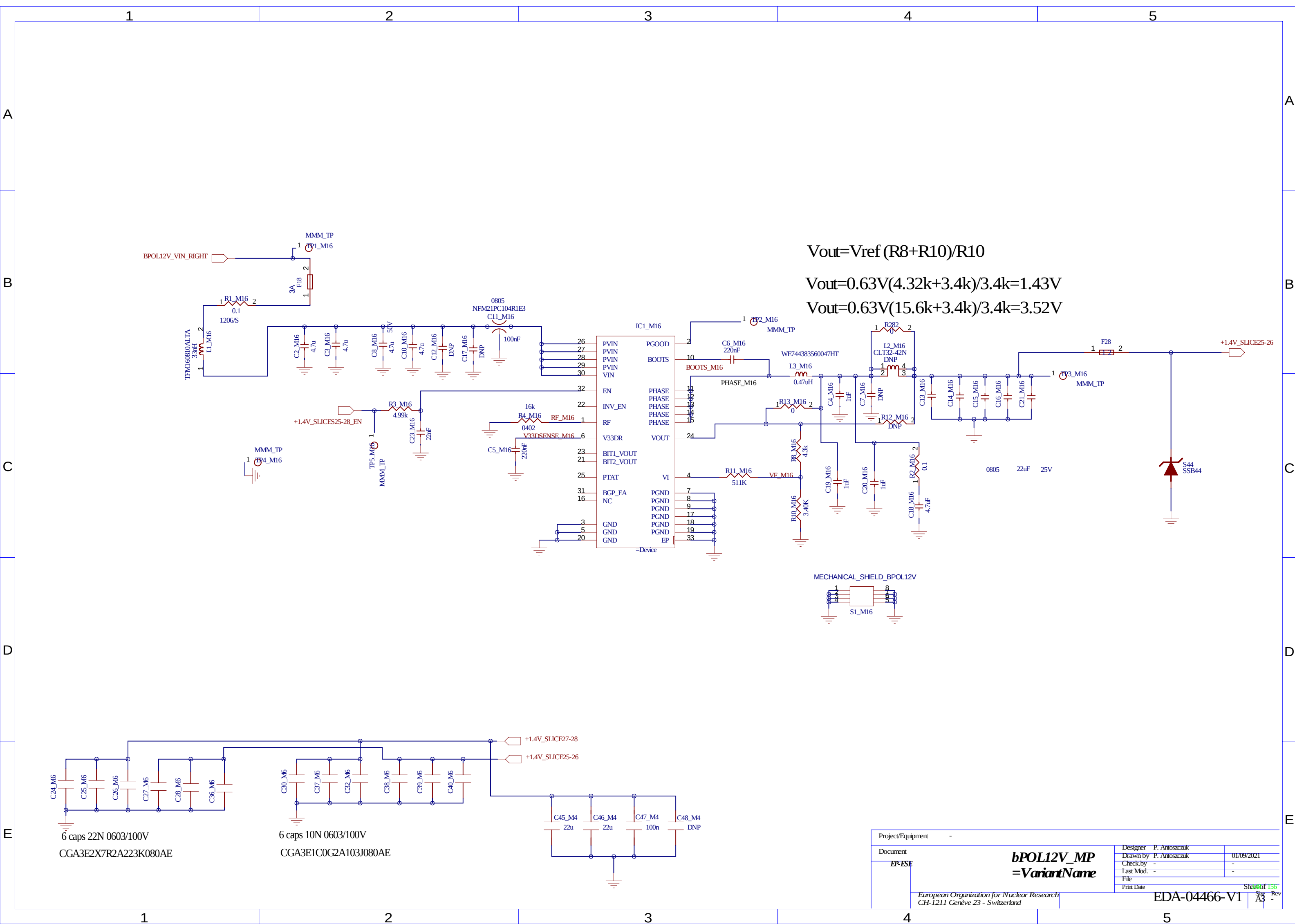


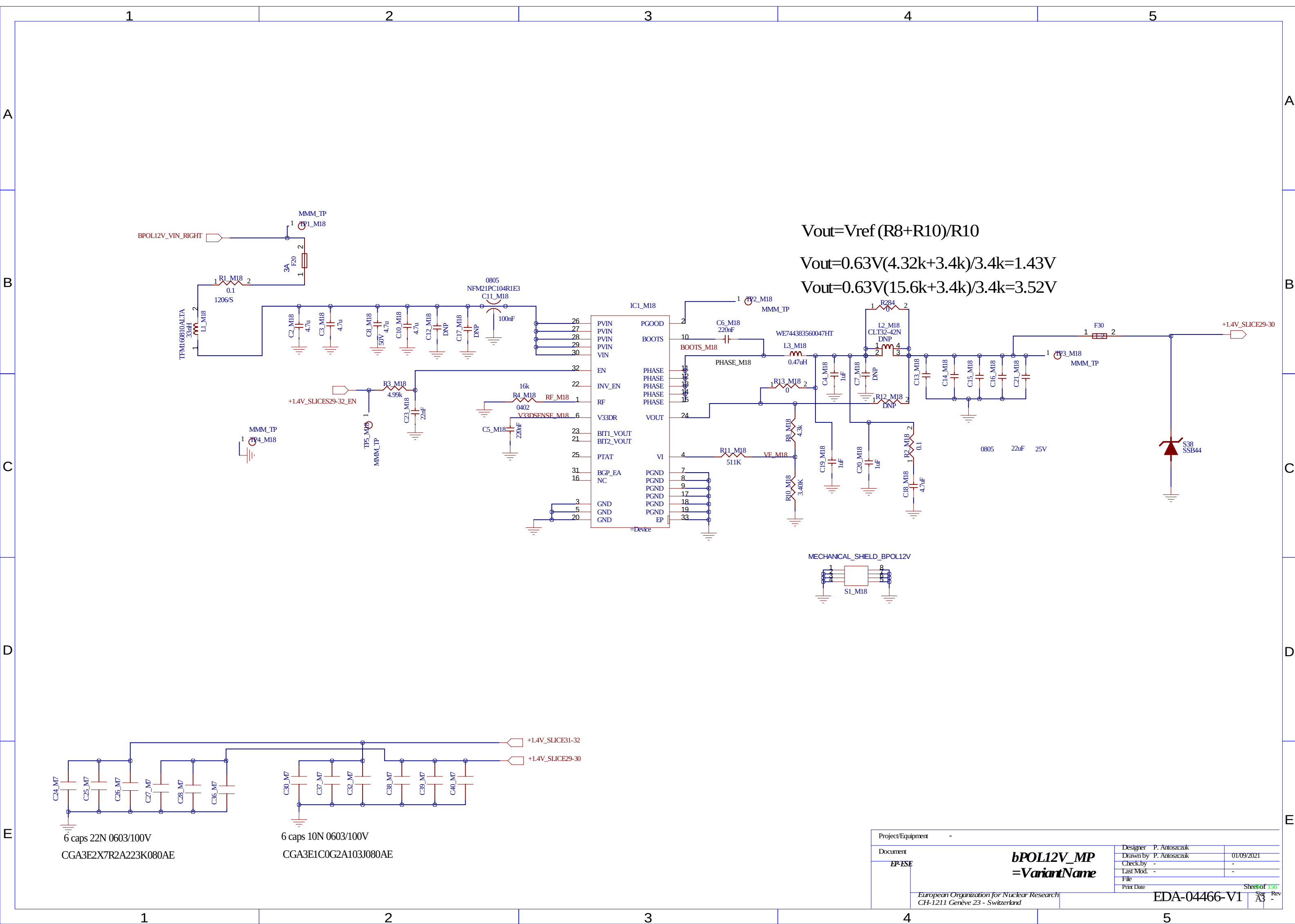
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		EDA-04466-V1 Sheet 136 of 136 A3 Rev	

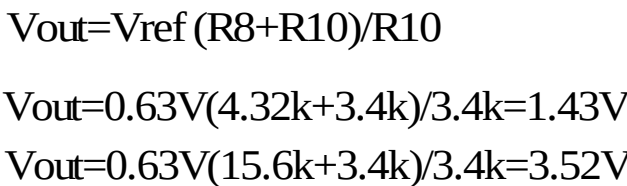




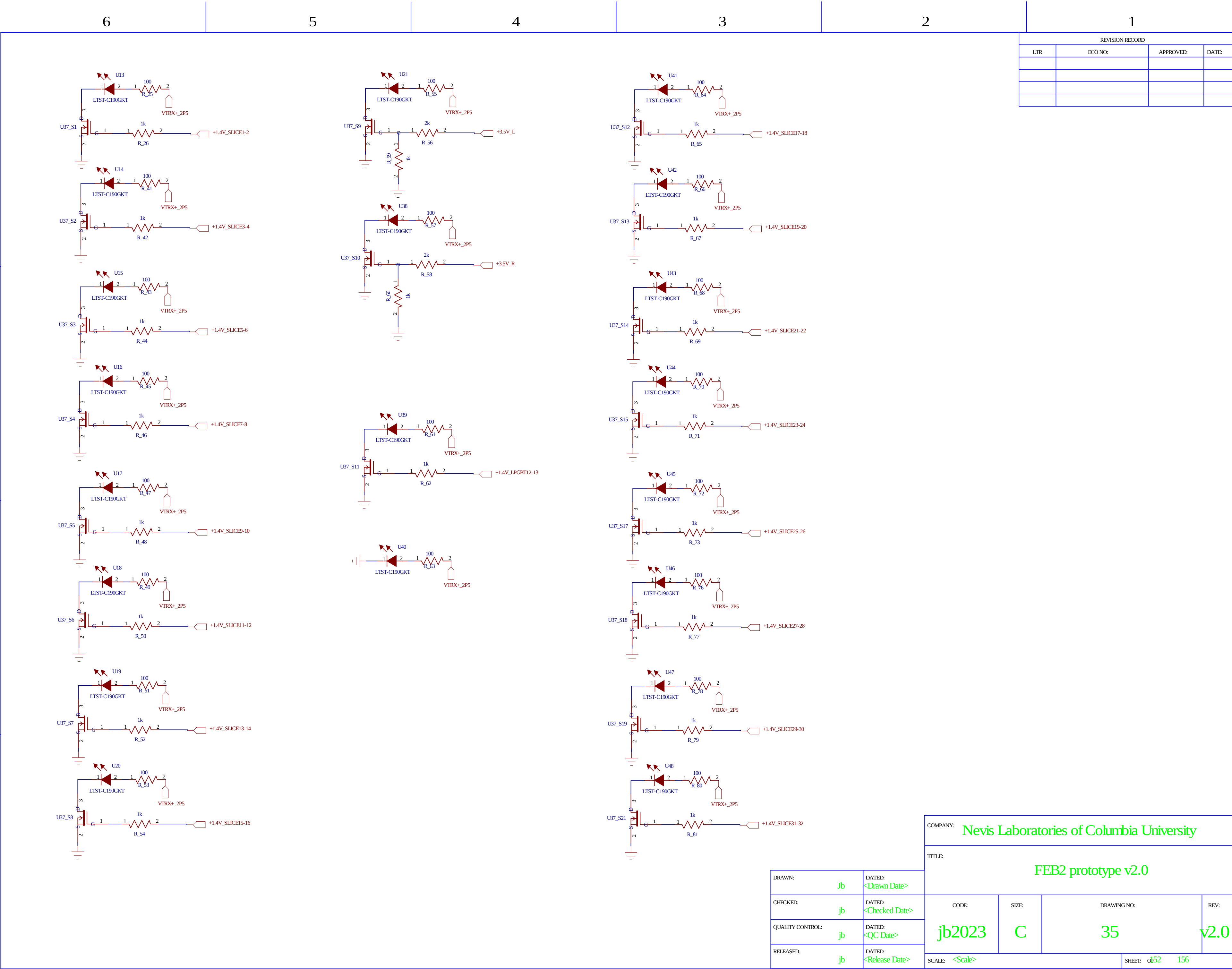








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EP-ESE		Drawn by	P. Antoszuk
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European Organization for Nuclear Research CH-1211 Genève 23 - Switzerland		Sheet of 156 EDA-04466-V1 A3 Rev	



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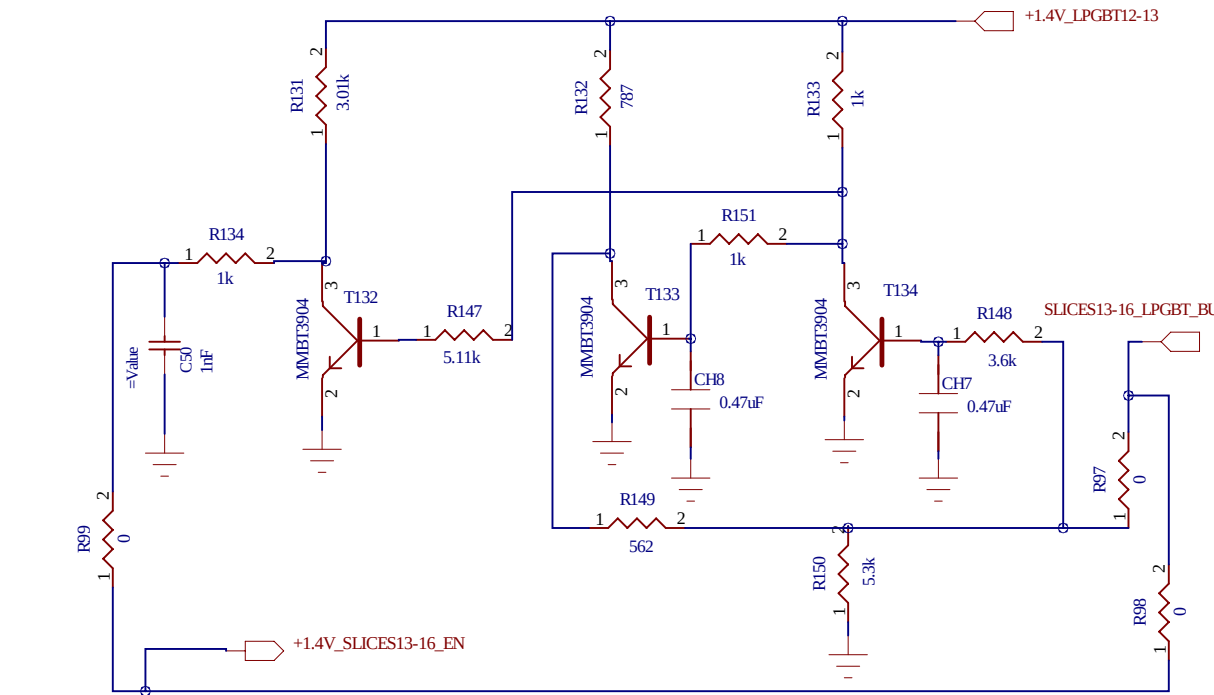
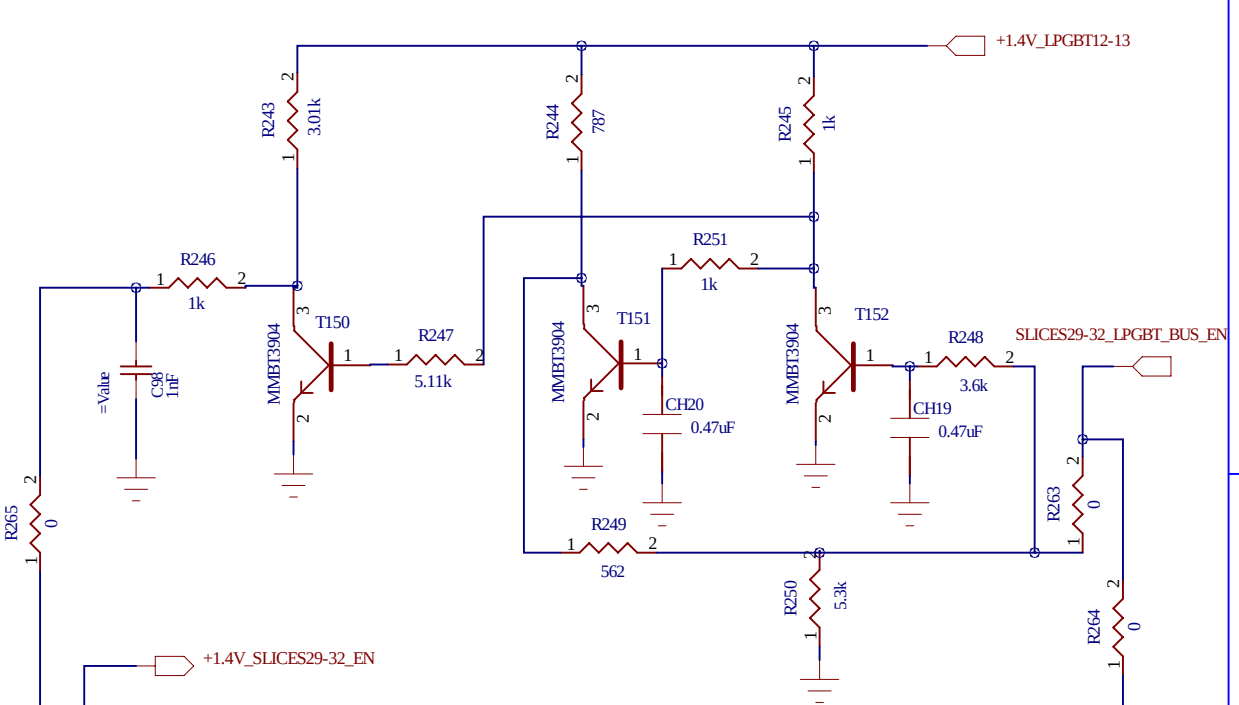
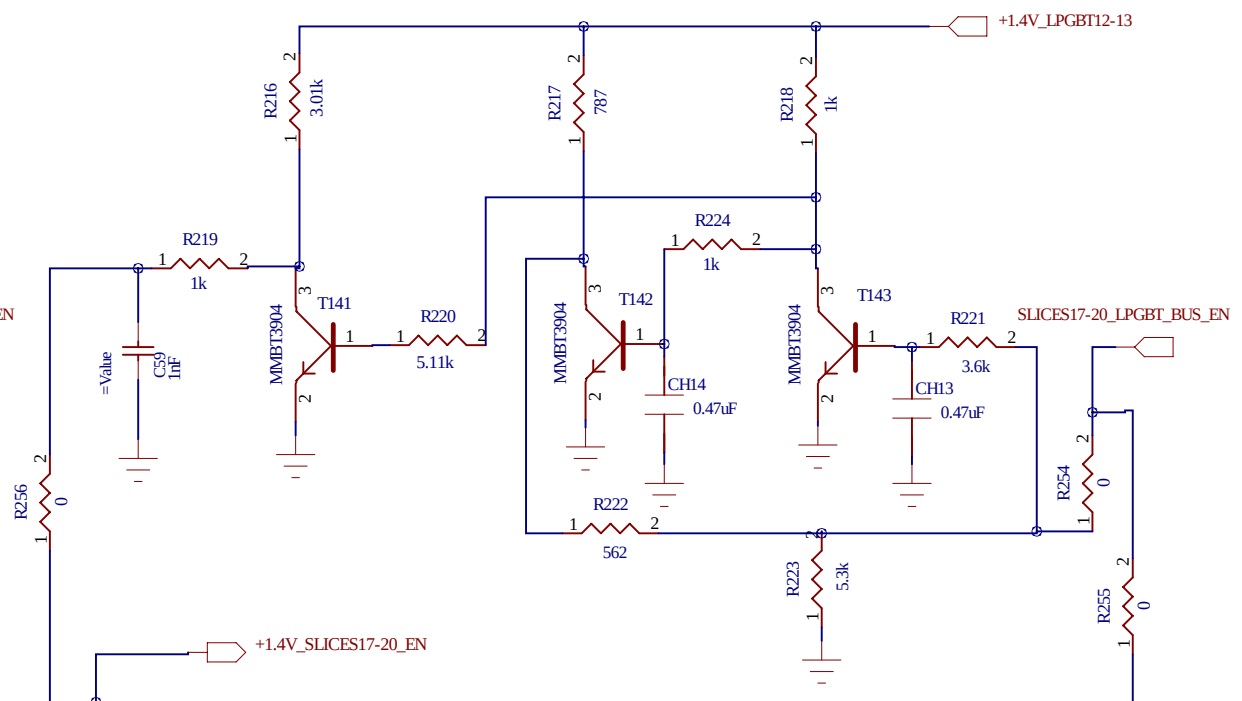
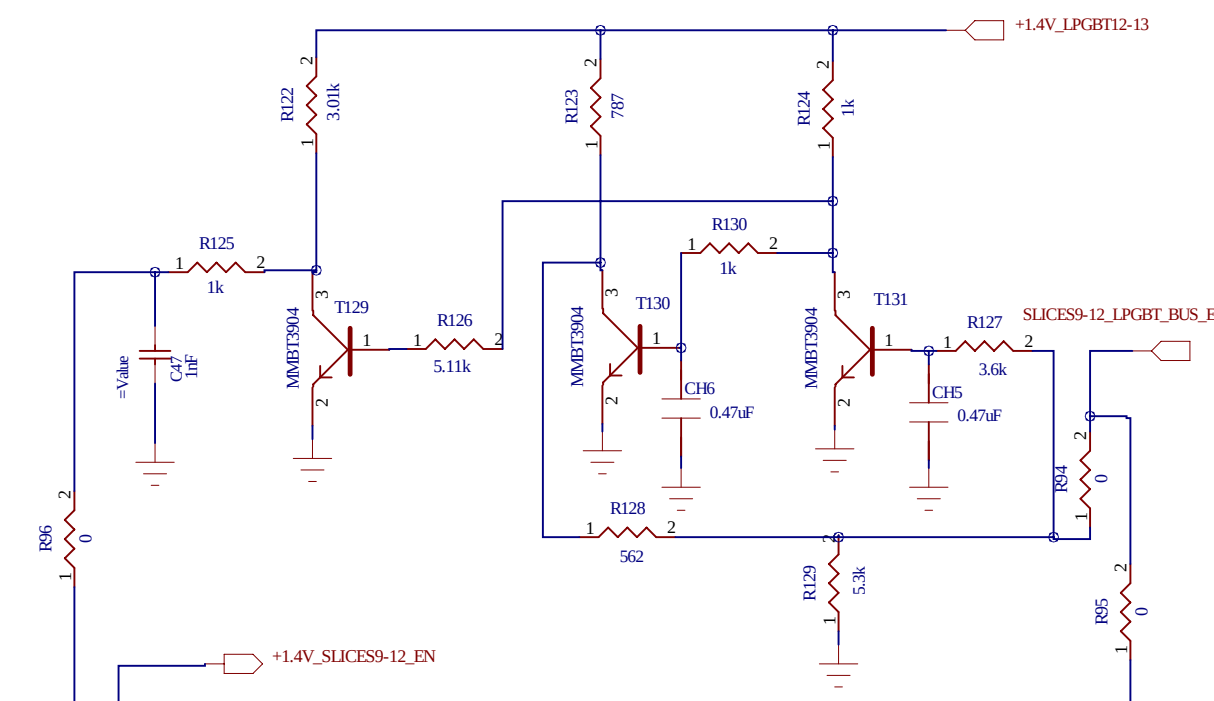
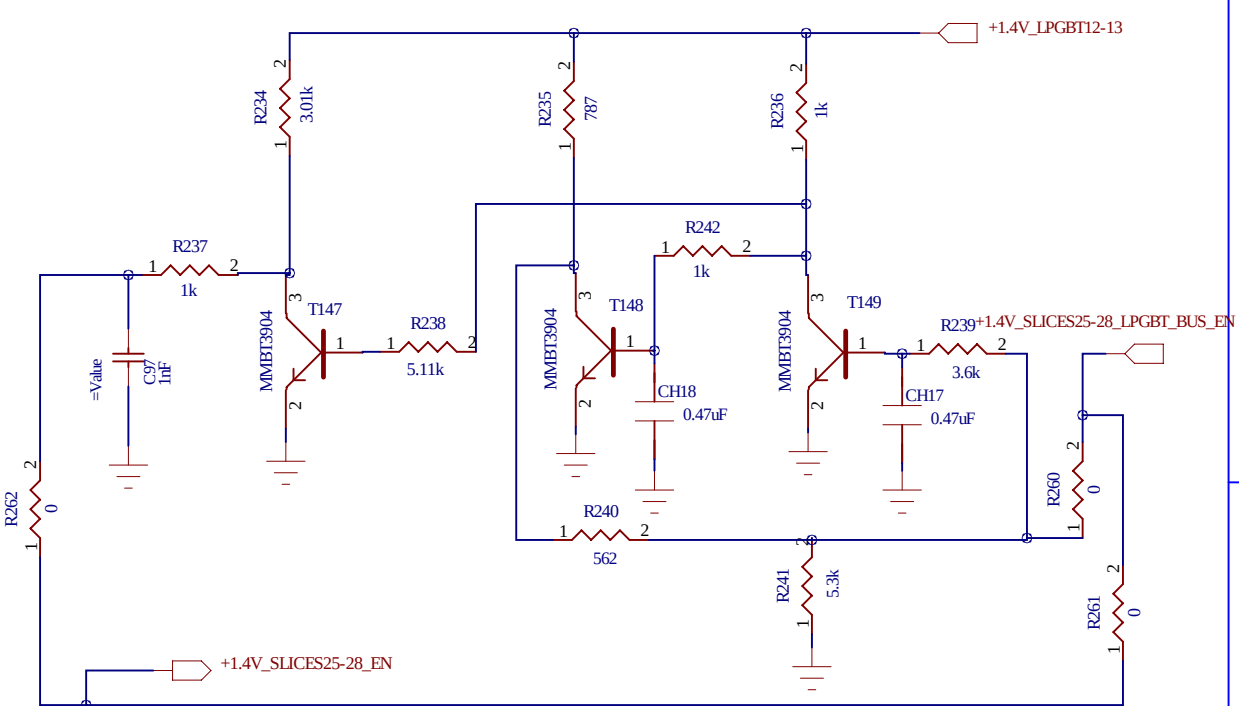
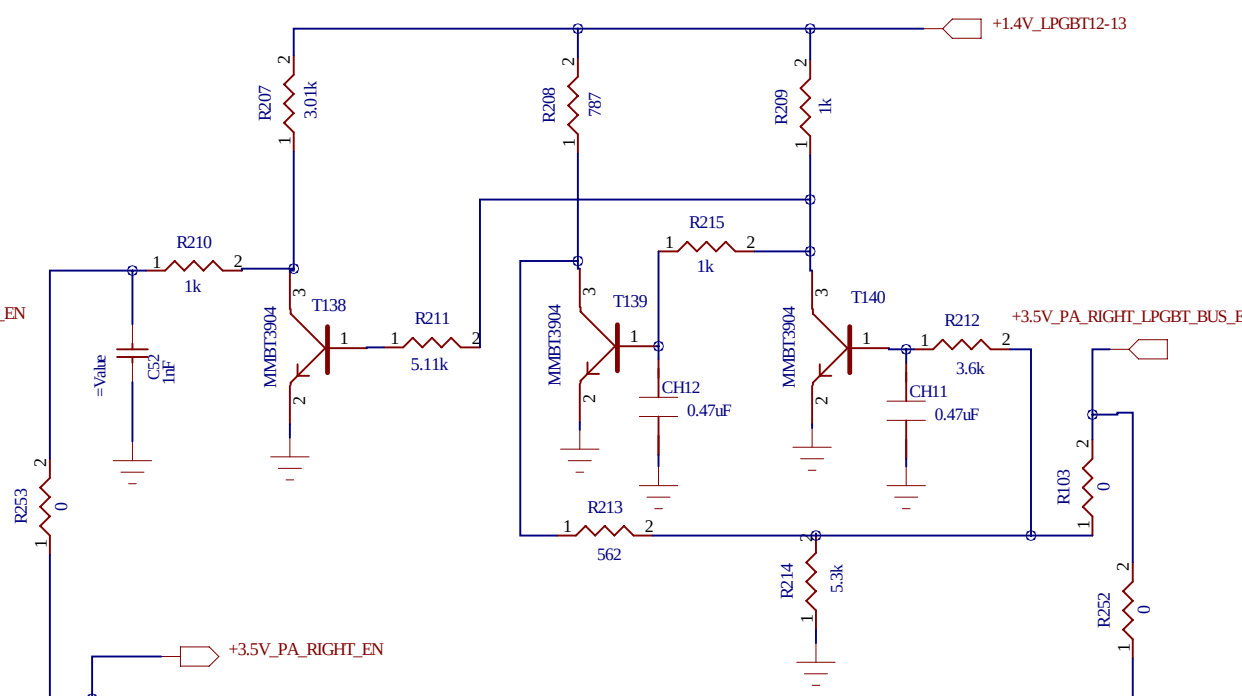
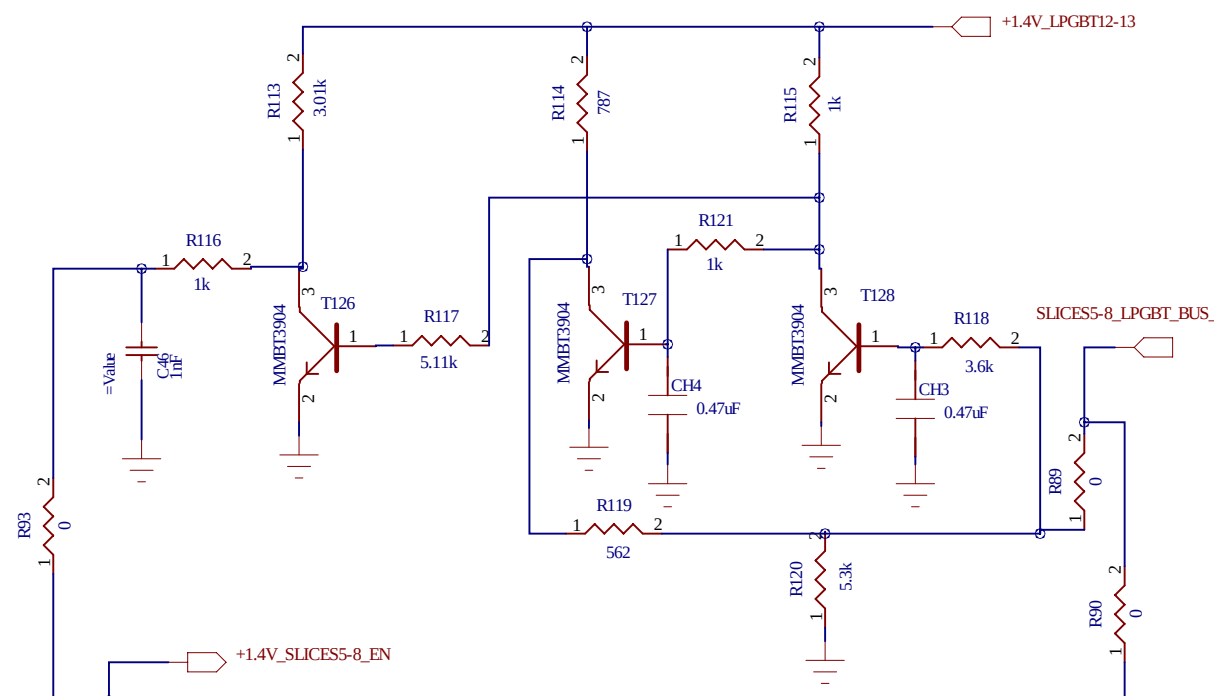
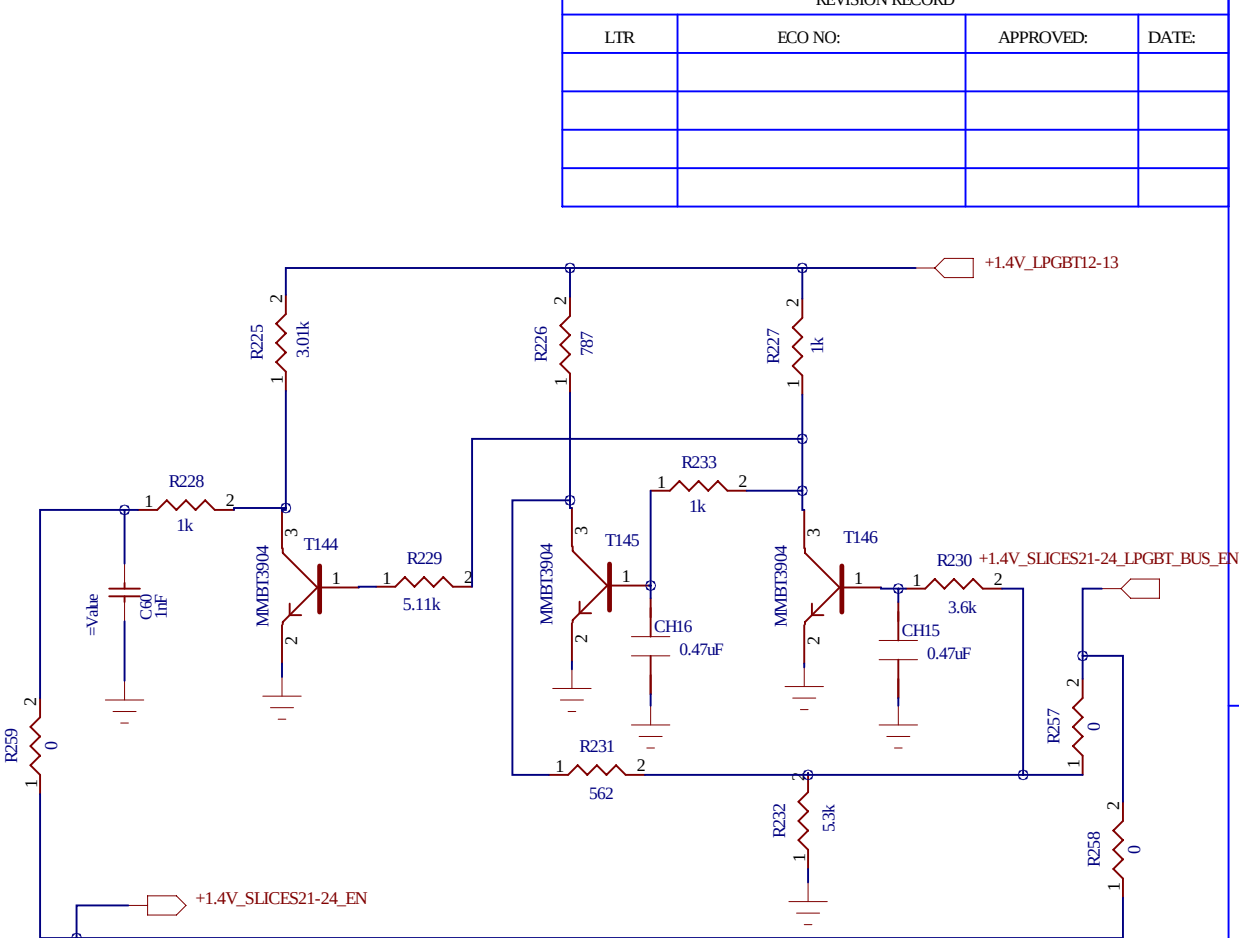
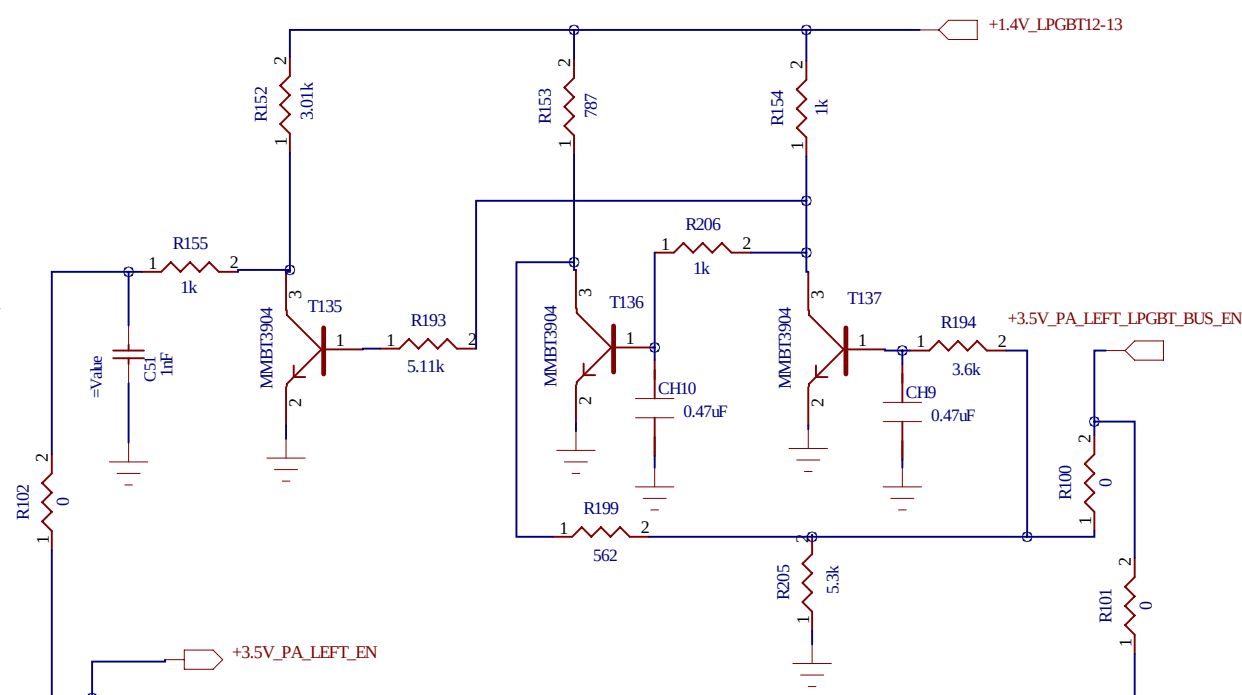
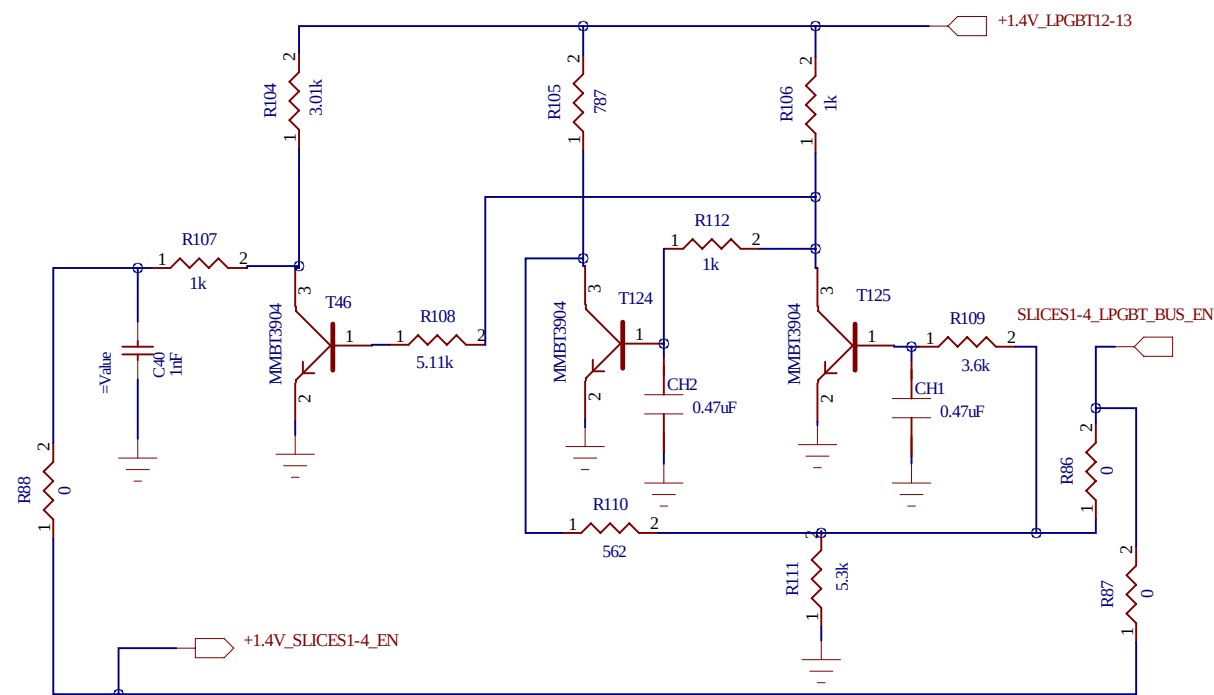
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COMPANY: Nevis Laboratories of Columbia University			
TITLE: FEB2 prototype v2.0			
CODE: jb2023	SIZE: C	DRAWING NO: 35	REV: v2.0
SCALE: <Scale>		SHEET: OF 53	156

