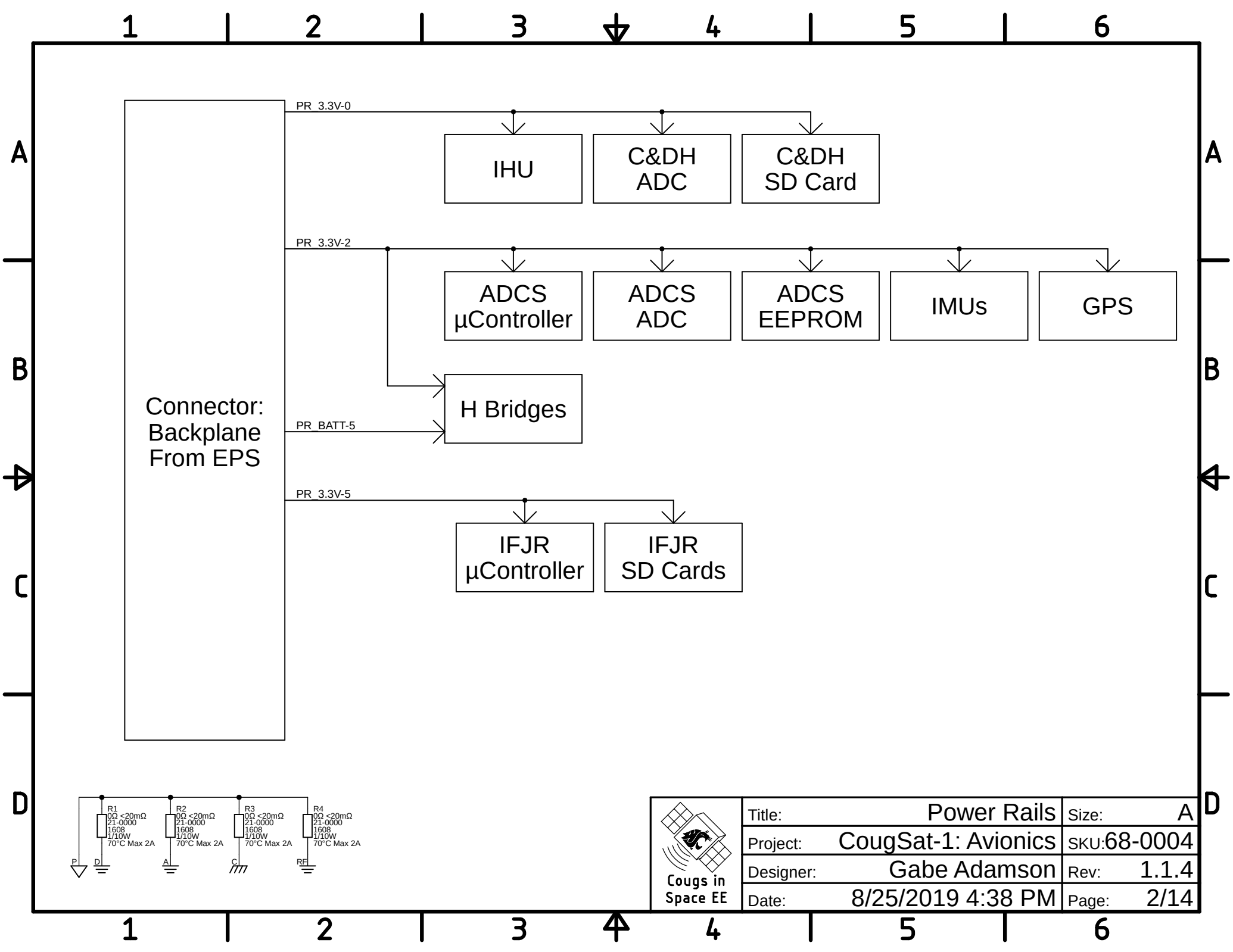


Page 1: Block Diagram  
Page 2: Power Rails  
Page 3: ADCS  
Page 4: EEPROM  
Page 5: H-Bridges  
Page 6: IMUs  
Page 7: ADCS ADCs & Amplifiers  
Page 8: GPS  
Page 9: IFJR

Page 10: IFJR Cards  
Page 11: IHU  
Page 12: IHU Cards & C&DH ADC  
Page 13: Power & ADCS Jacks  
Page 14: Mechanical



Title:	Block Diagram	Size:	A
Project:	CougSat-1: Avionics	SKU:	68-0004
Designer:	Gabe Adamson	Rev:	1.1.4
Date:	8/25/2019 4:38 PM	Page:	1/14



Title:	Power Rails	Size:	A
Project:	CougSat-1: Avionics	SKU:	68-0004
Designer:	Gabe Adamson	Rev:	1.1.4
Date:	8/25/2019 4:38 PM	Page:	2/14



1

2

3



4

5

6

A

A

B

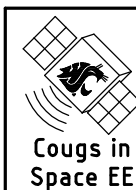
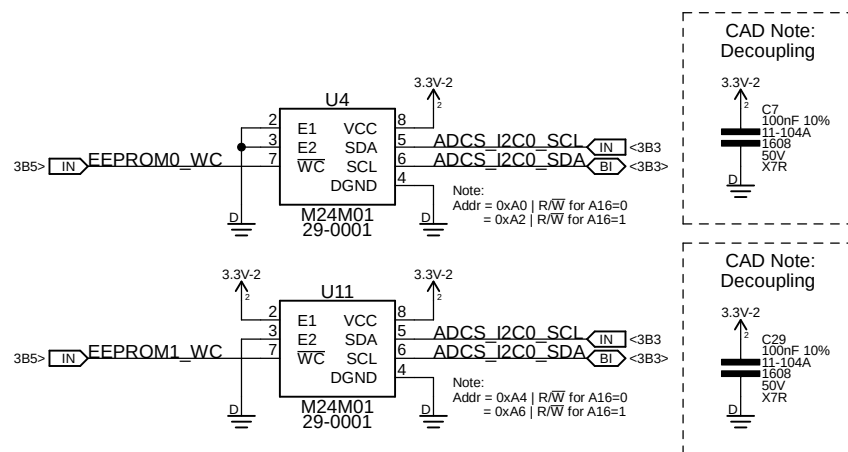
B

C

C

D

D



Title:	EEPROM	Size:	A
Project:	CougsSat-1: Avionics	SKU:	68-0004
Designer:	Gabe Adamson	Rev:	1.1.4
Date:	8/25/2019 4:38 PM	Page:	4/14

1

2

3



4

5

6

1

2

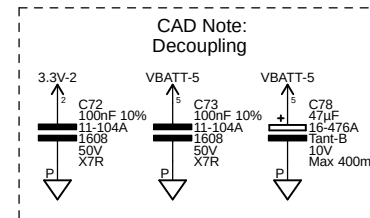
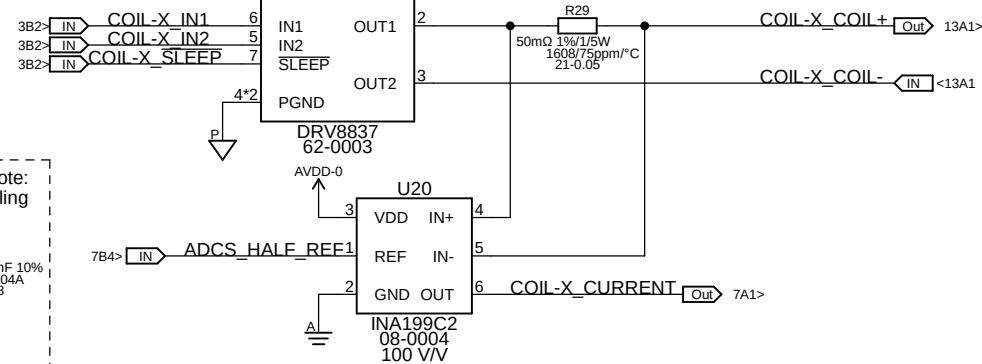
3

4

4

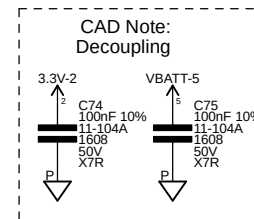
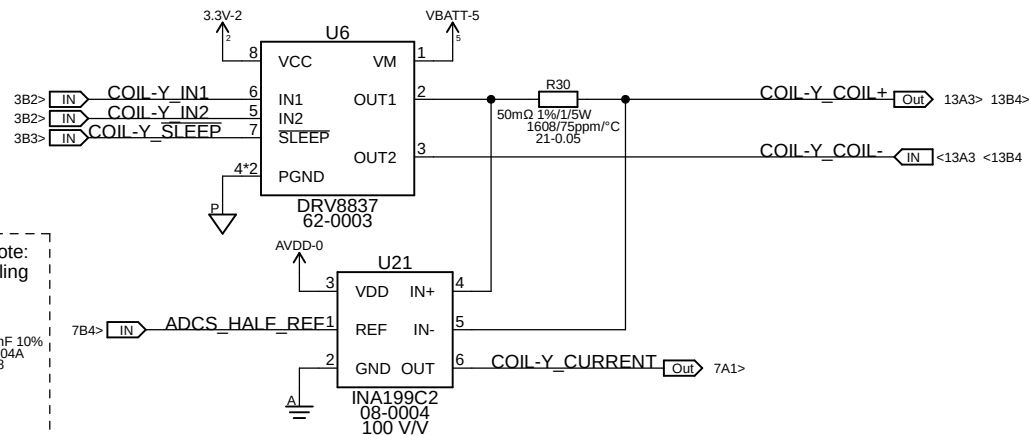
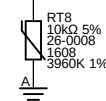
5

6



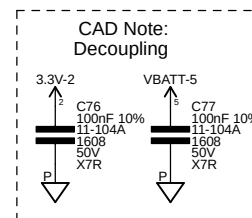
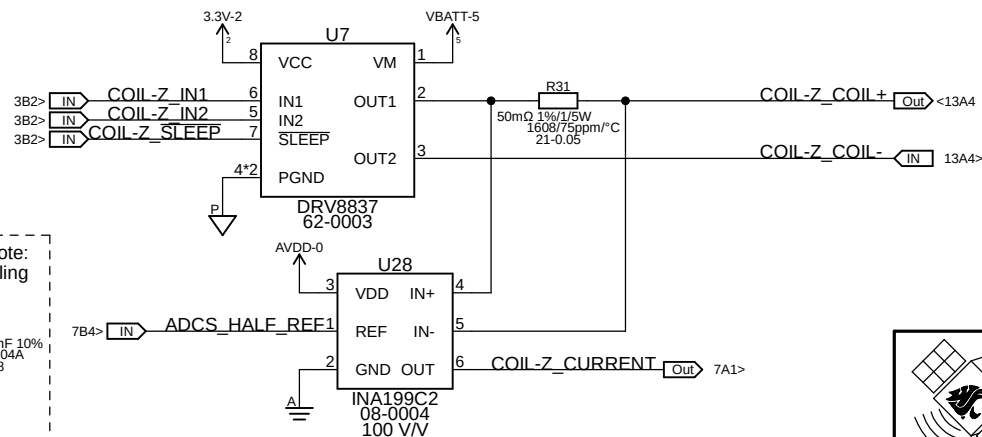
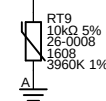
CAD Note:  
Thermally  
Connected

TEMP\_H-BRIDGE-X Out 7A4>



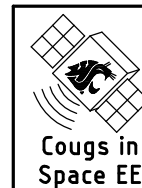
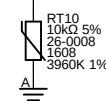
CAD Note:  
Thermally  
Connected

TEMP\_H-BRIDGE-Y Out 7A4>



CAD Note:  
Thermally  
Connected

TEMP\_H-BRIDGE-Z Out 7A4>



Title:	H-Bridges	Size:	A
Project:	Cougsat-1: Avionics	SKU:	68-0004
Designer:	Gabe Adamson	Rev:	1.1.4
Date:	8/25/2019 4:38 PM	Page:	5/14

1

2

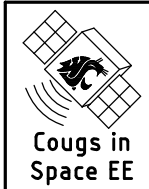
3

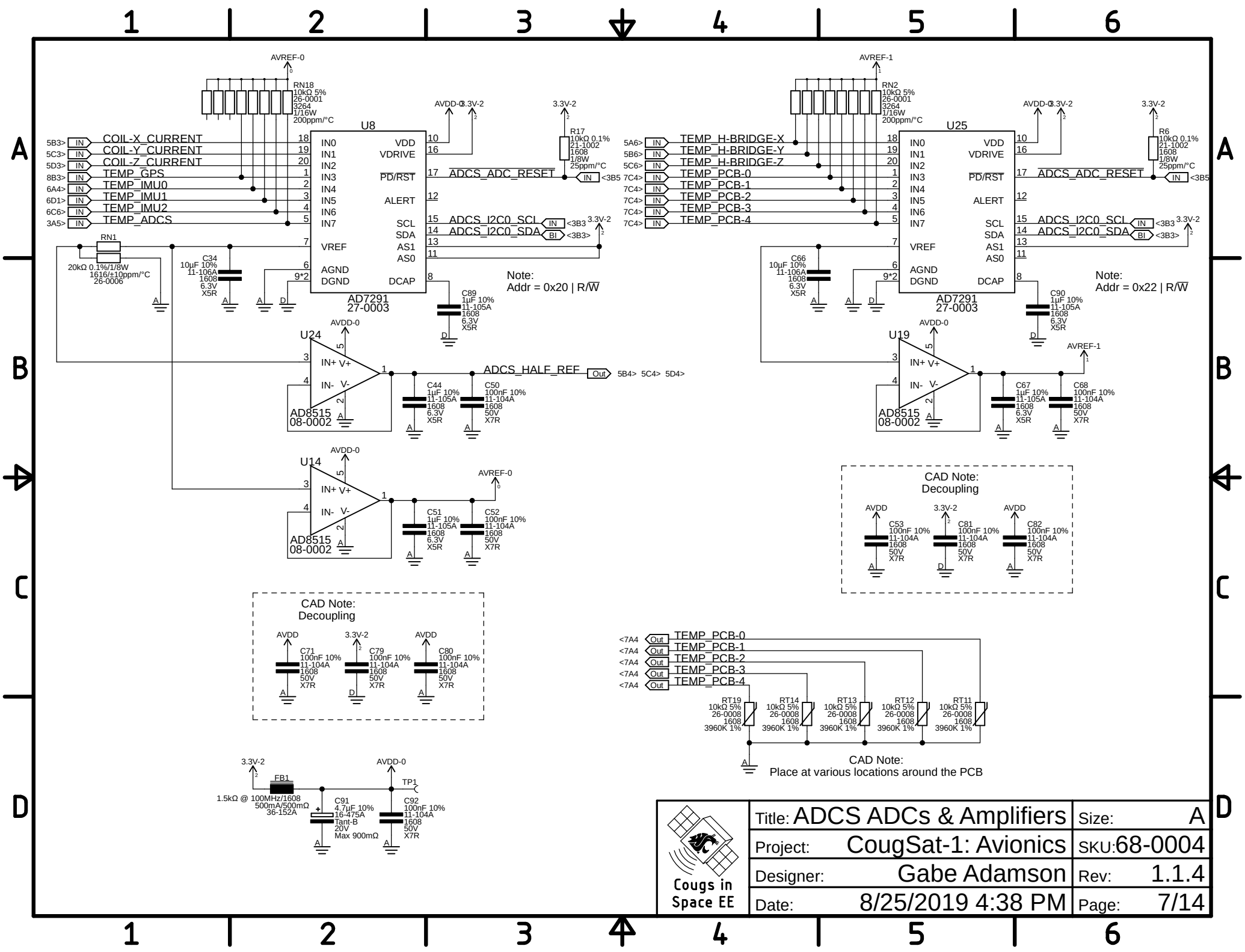
4

4

5

6





Title: ADCS ADCs & Amplifiers	Size: A
Project: CougSat-1: Avionics	SKU:68-0004
Designer: Gabe Adamson	Rev: 1.1.4
Date: 8/25/2019 4:38 PM	Page: 7/14





1

2

3

4

5

6

A

A

B

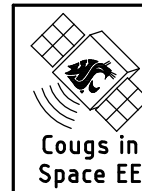
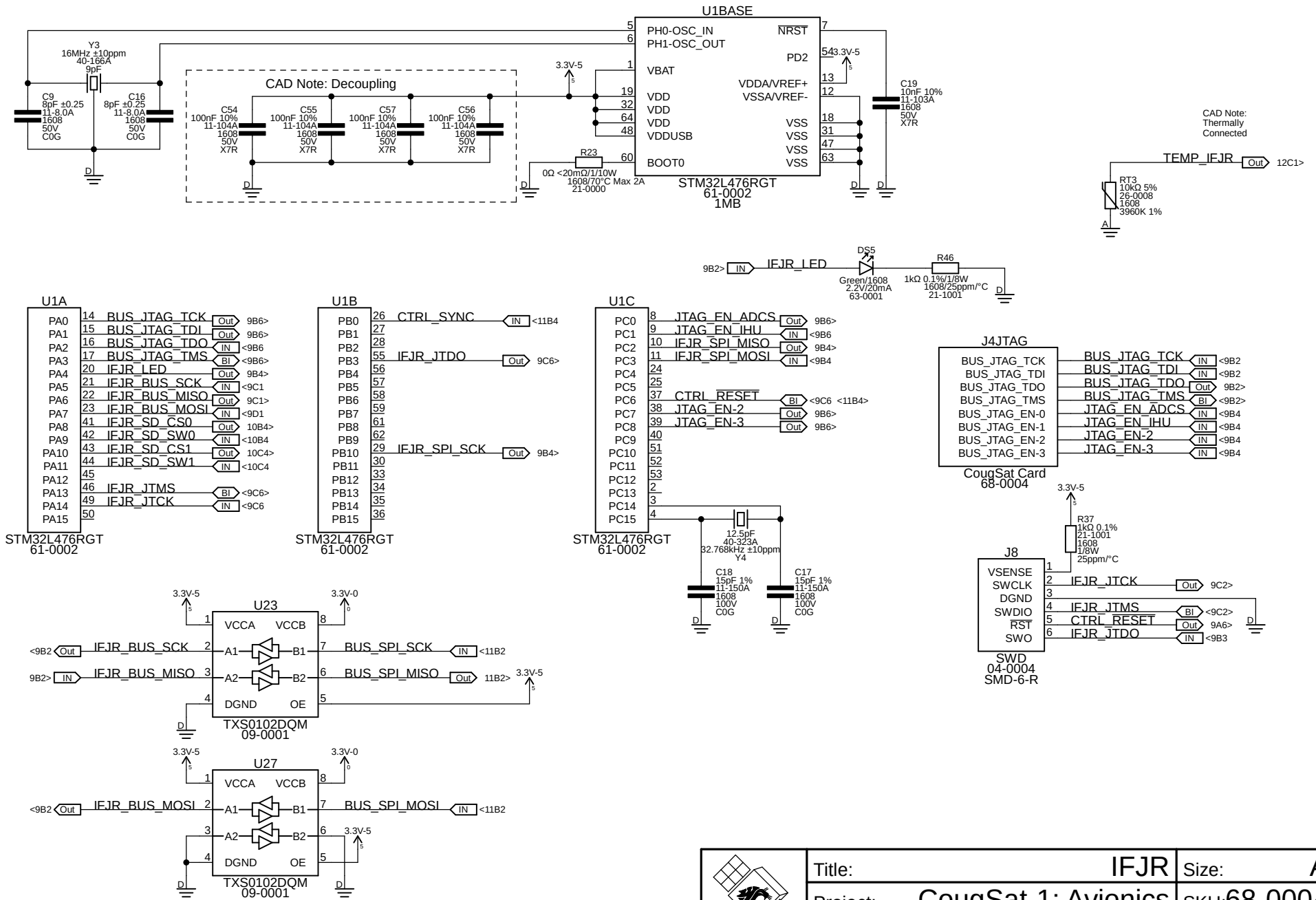
B

C

C

D

D



Title:	IFJR	Size:	A
Project:	CougSat-1: Avionics	SKU:	68-0004
Designer:	Gabe Adamson	Rev:	1.1.4
Date:	8/25/2019 4:38 PM	Page:	9/14

1

2

3

↓

4

5

6

A

B

C

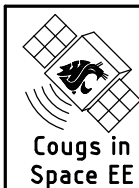
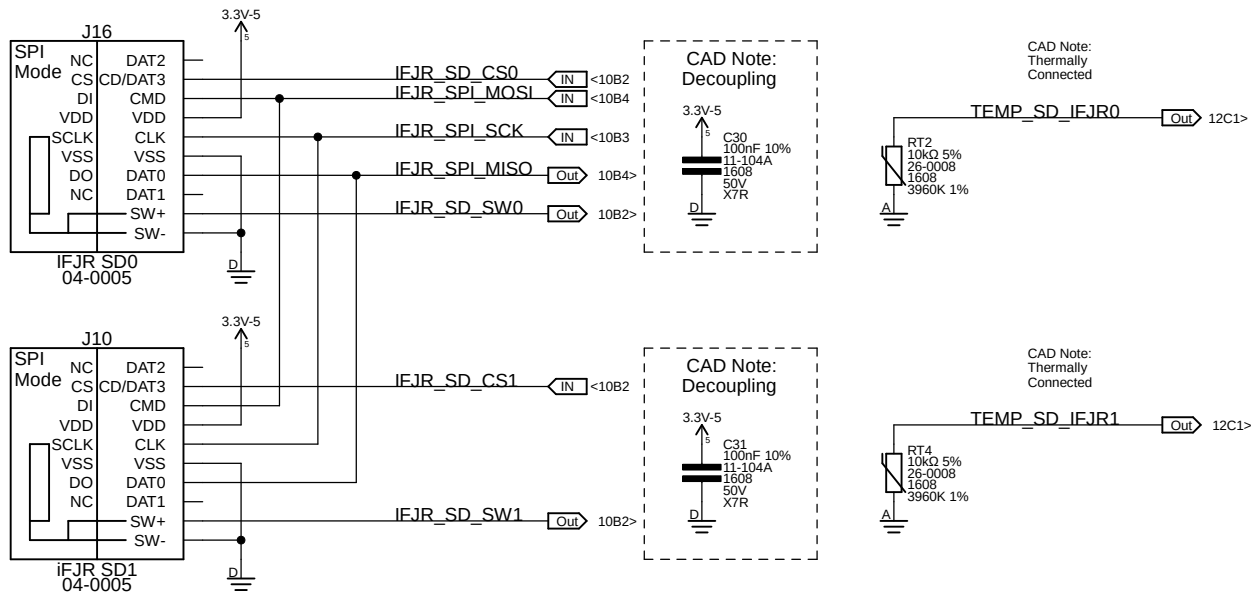
D

A

B

C

D



Title:	IFJR Cards	Size:	A
Project:	CougSat-1: Avionics	SKU:	68-0004
Designer:	Gabe Adamson	Rev:	1.1.4
Date:	8/25/2019 4:38 PM	Page:	10/14

1

2

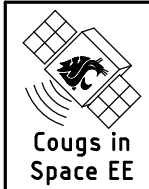
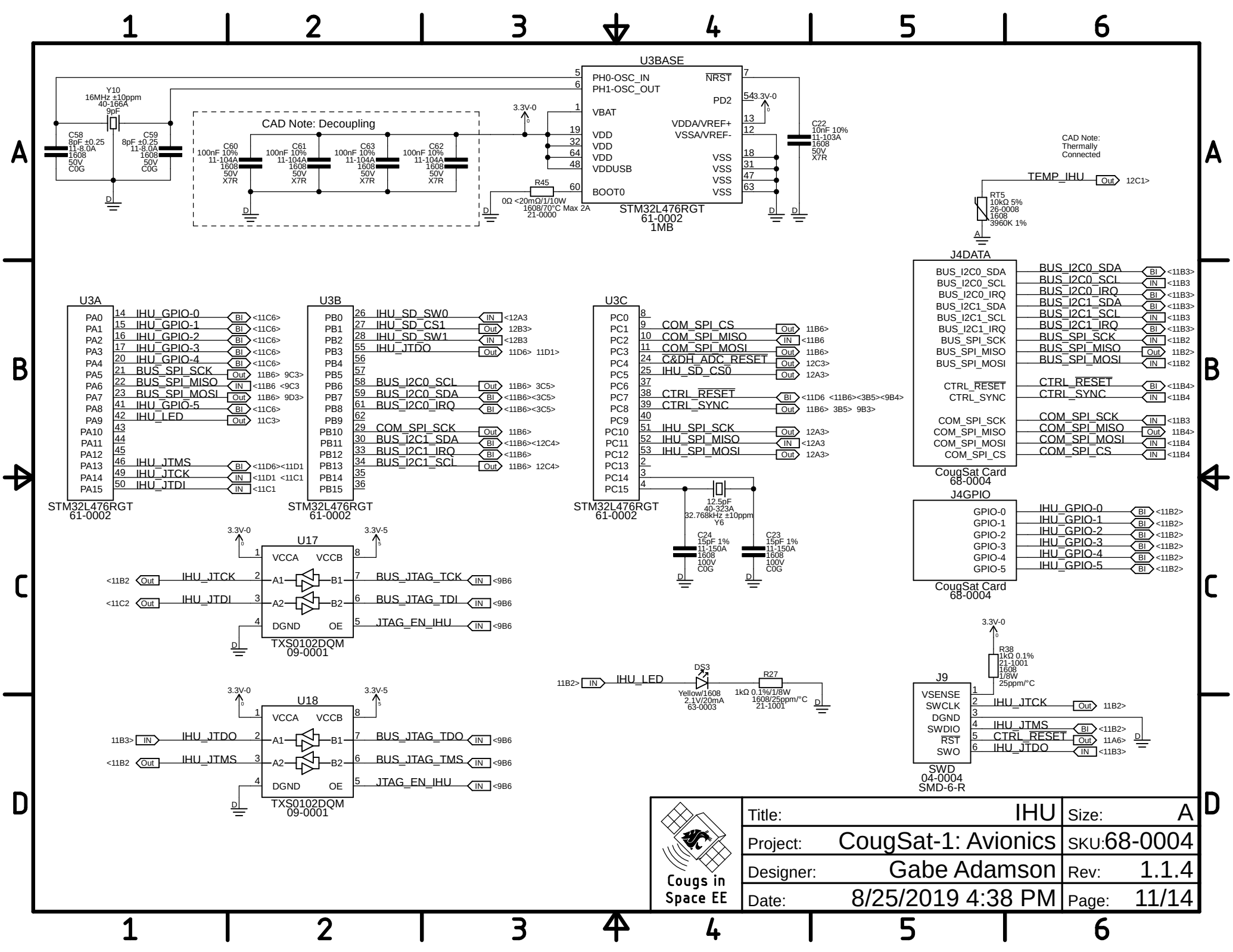
3

↑

4

5

6



Title:	IHU	Size:	A
Project:	CougSat-1: Avionics	SKU:	68-0004
Designer:	Gabe Adamson	Rev:	1.1.4
Date:	8/25/2019 4:38 PM	Page:	11/14



1

2

3



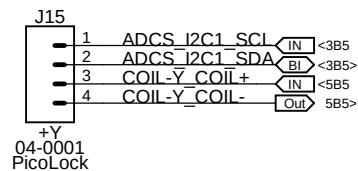
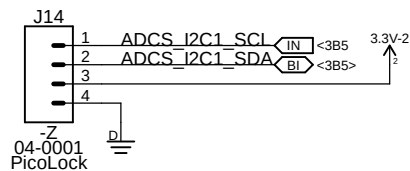
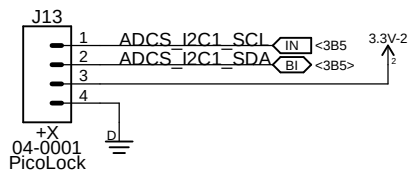
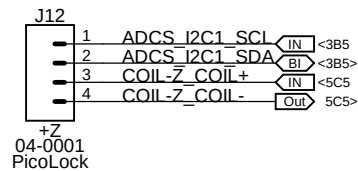
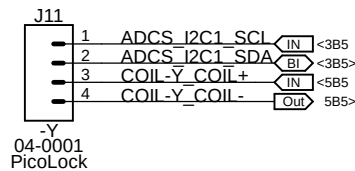
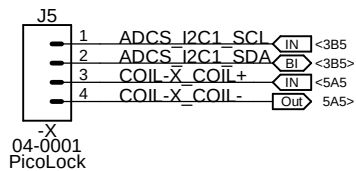
4

5

6

A

A



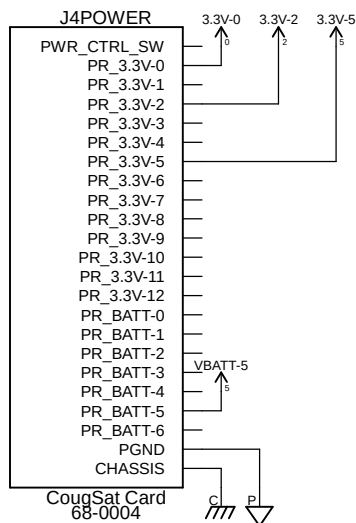
B

B



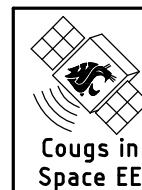
C

C



D

D



Cougs in  
Space EE

Title: Power & ADCS Jacks	Size: A
Project: CougSat-1: Avionics	SKU:68-0004
Designer: Gabe Adamson	Rev: 1.1.4
Date: 8/25/2019 4:38 PM	Page: 13/14

1

2

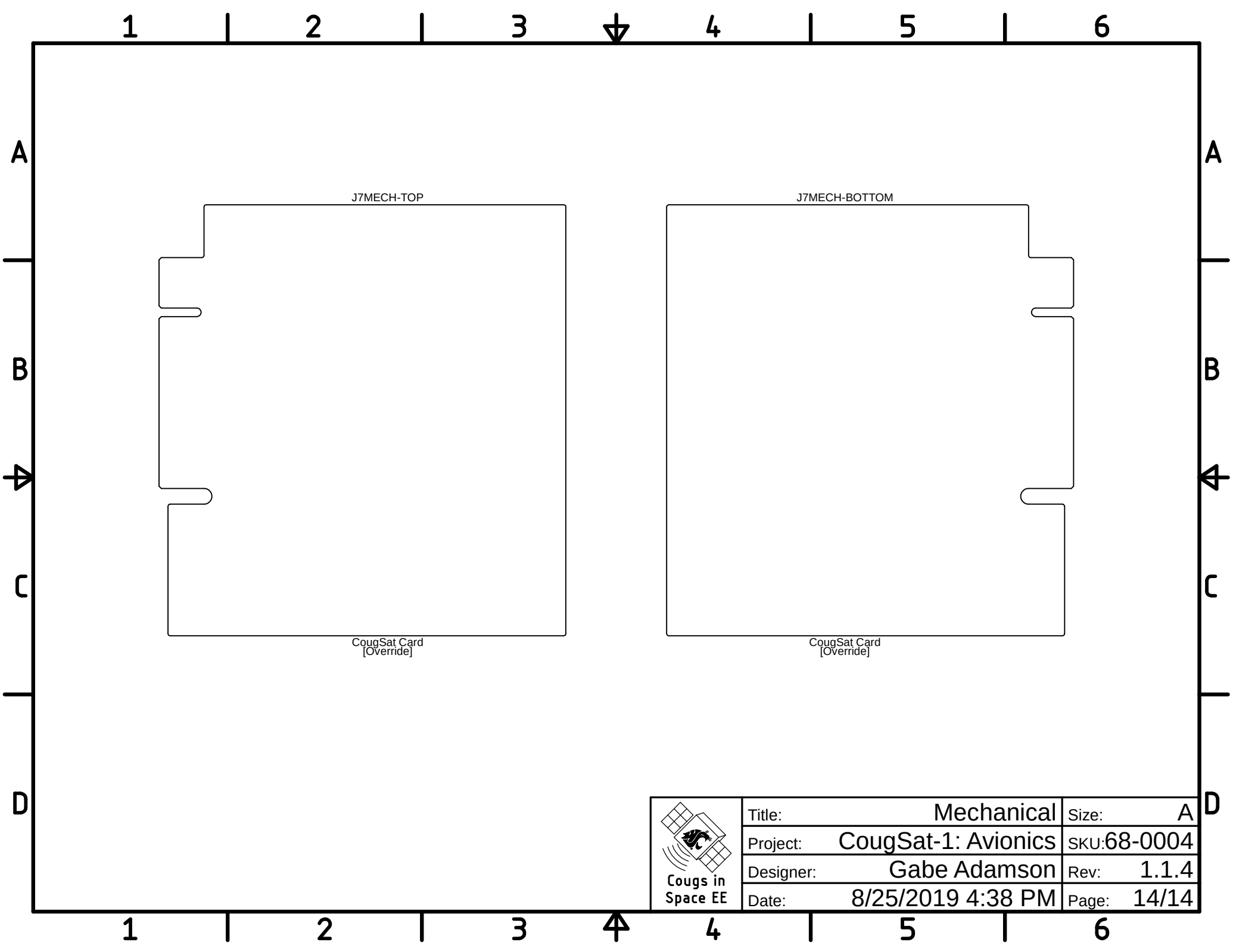
3



4

5

6



Title:	Mechanical	Size:	A
Project:	CougSat-1: Avionics	SKU:	68-0004
Designer:	Gabe Adamson	Rev:	1.1.4
Date:	8/25/2019 4:38 PM	Page:	14/14