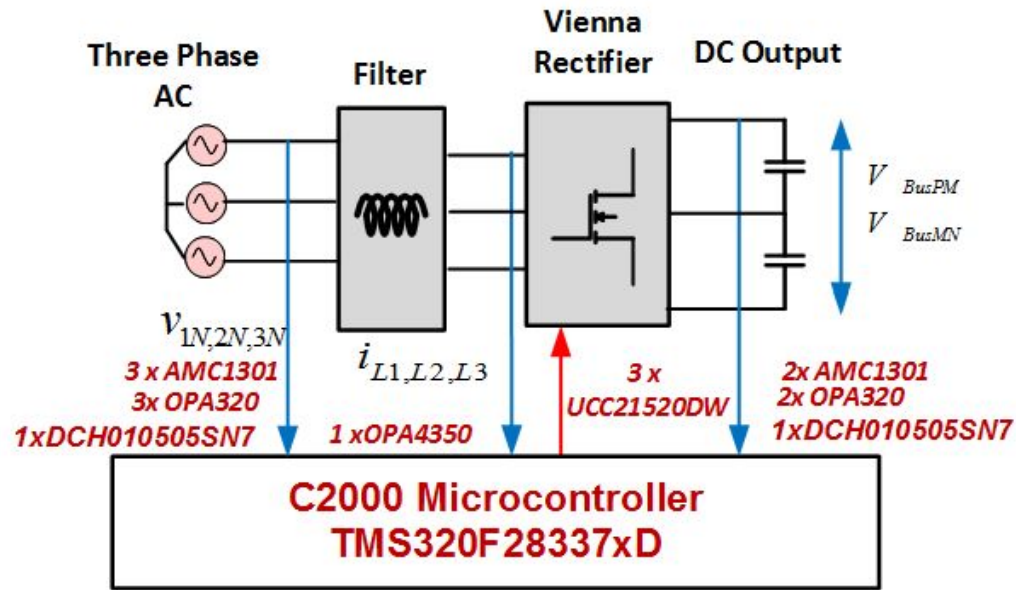
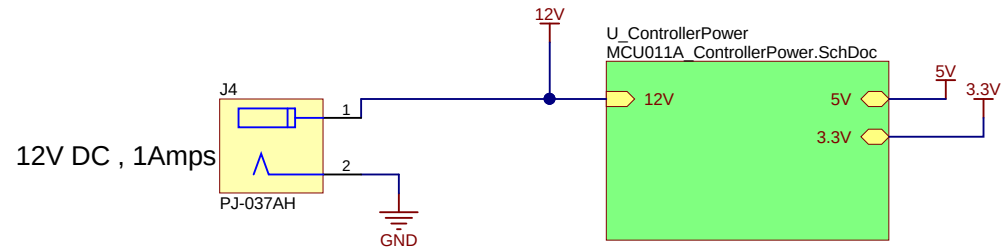
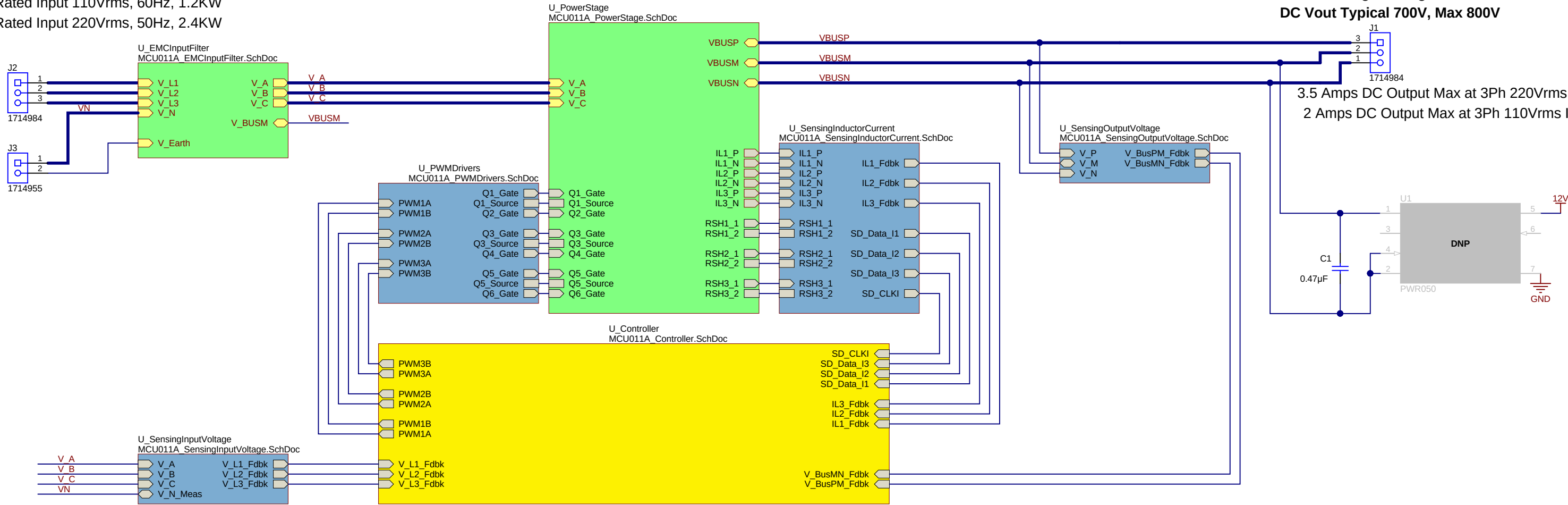


High Voltage
Three Phase 3Wire/ 4Wire/ 5Wire Input
Rated Input 110Vrms, 60Hz, 1.2KW
Rated Input 220Vrms, 50Hz, 2.4KW

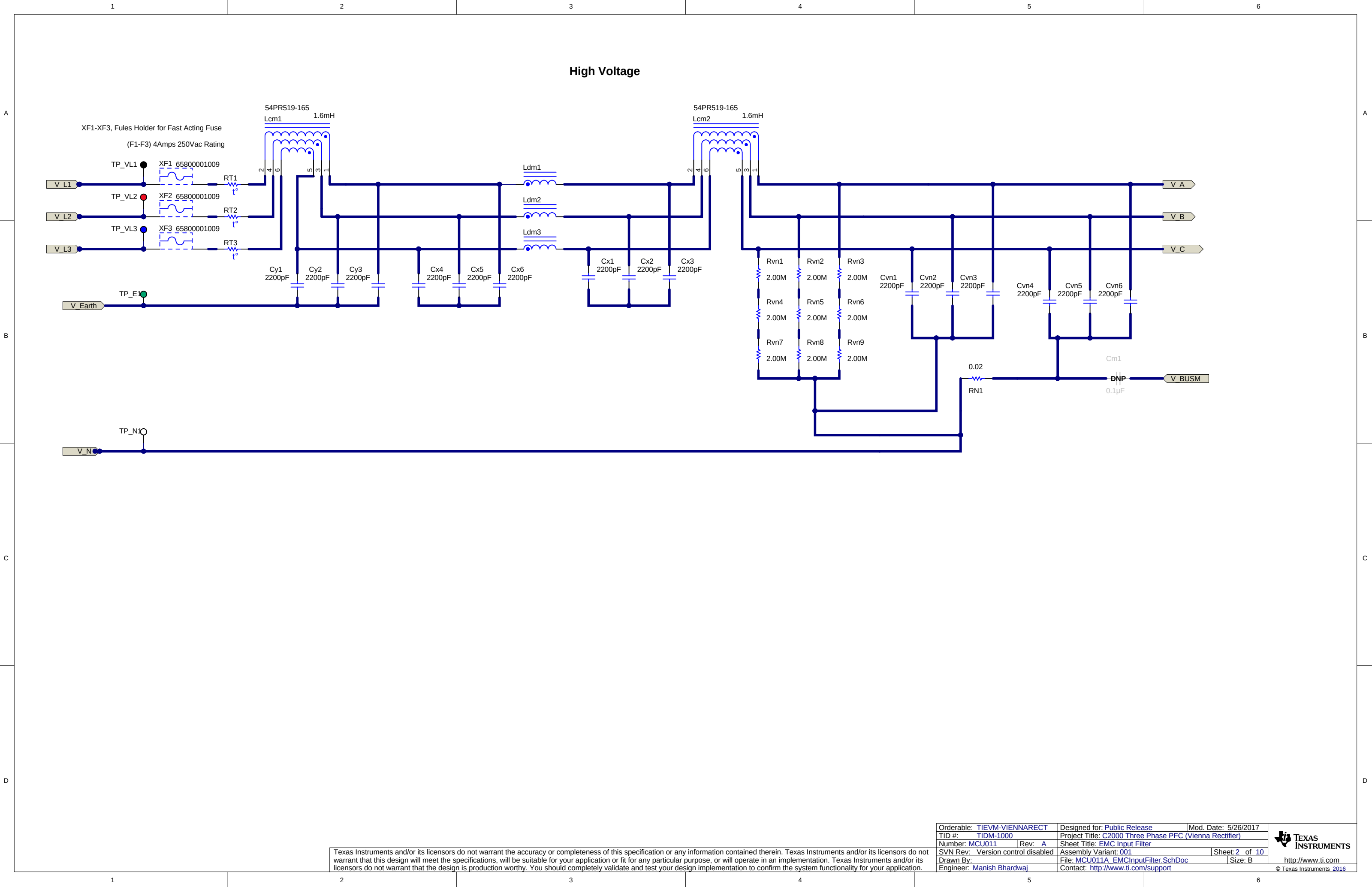
High Voltage
DC Vout Typical 700V, Max 800V

3.5 Amps DC Output Max at 3Ph 220Vrms Input
2 Amps DC Output Max at 3Ph 110Vrms Input



Revision History				
Rev	ECN #	Approved Date	Approved by	Notes
E1	N/A	3/8/2016	N/A	First Revision of MCU011
E2	N/A	8/24/2016	N/A	Second Revision of MCU011
A	N/A	5/23/2016	N/A	Release Version MCU011

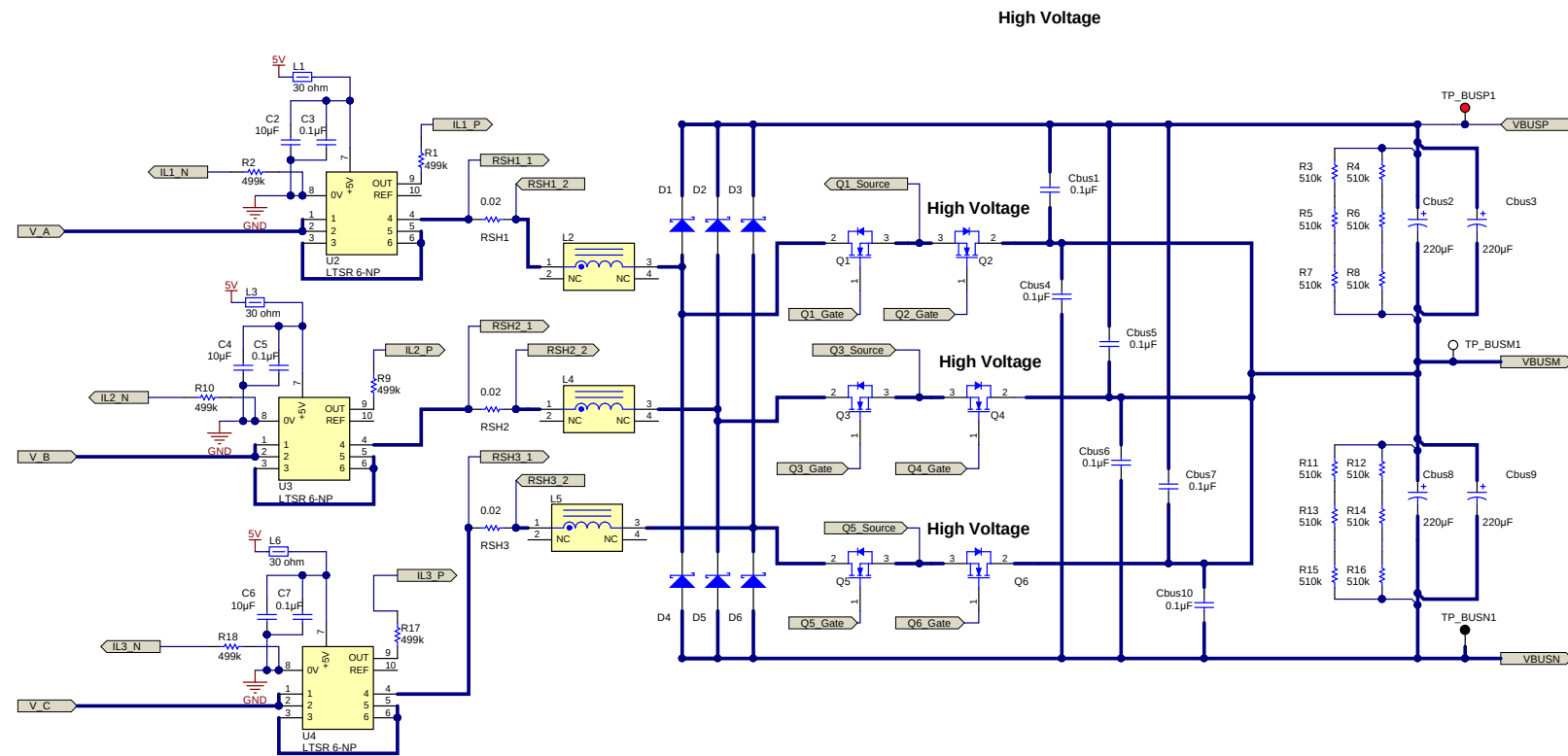
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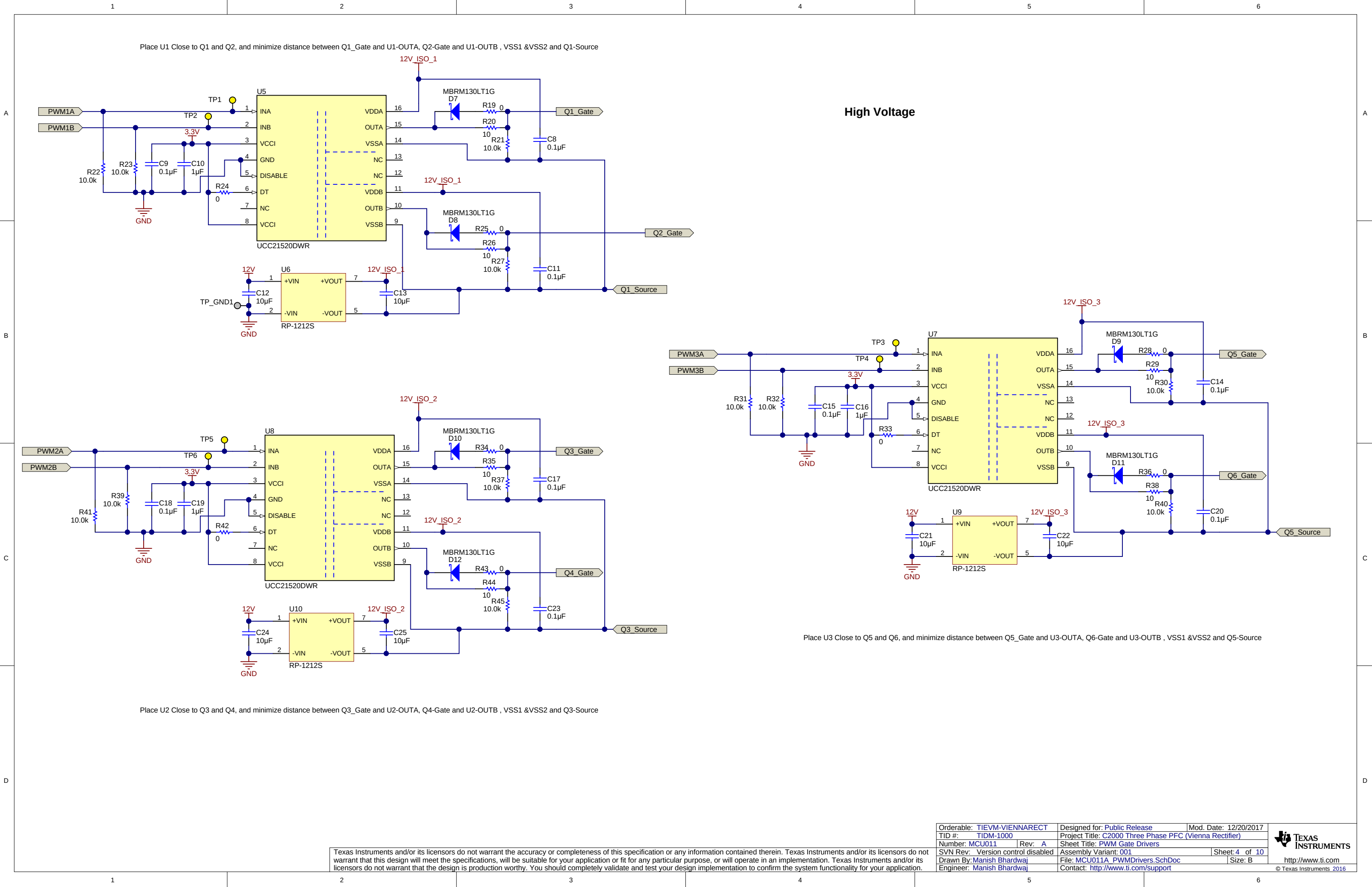


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Orderable: TIEVM-VIENNARECT		Designed for: Public Release	Mod. Date: 5/26/2017
TID #: TIDM-1000		Project Title: C2000 Three Phase PFC (Vienna Rectifier)	
Number: MCU011	Rev: A	Sheet Title: EMC Input Filter	
SVN Rev: Version control disabled		Assembly Variant: 001	Sheet: 2 of 10
Drawn By: Manish Bhardwaj		File: MCU011A_EMCInputFilter.SchDoc	Size: B
Engineer: Manish Bhardwaj		Contact: http://www.ti.com/support	

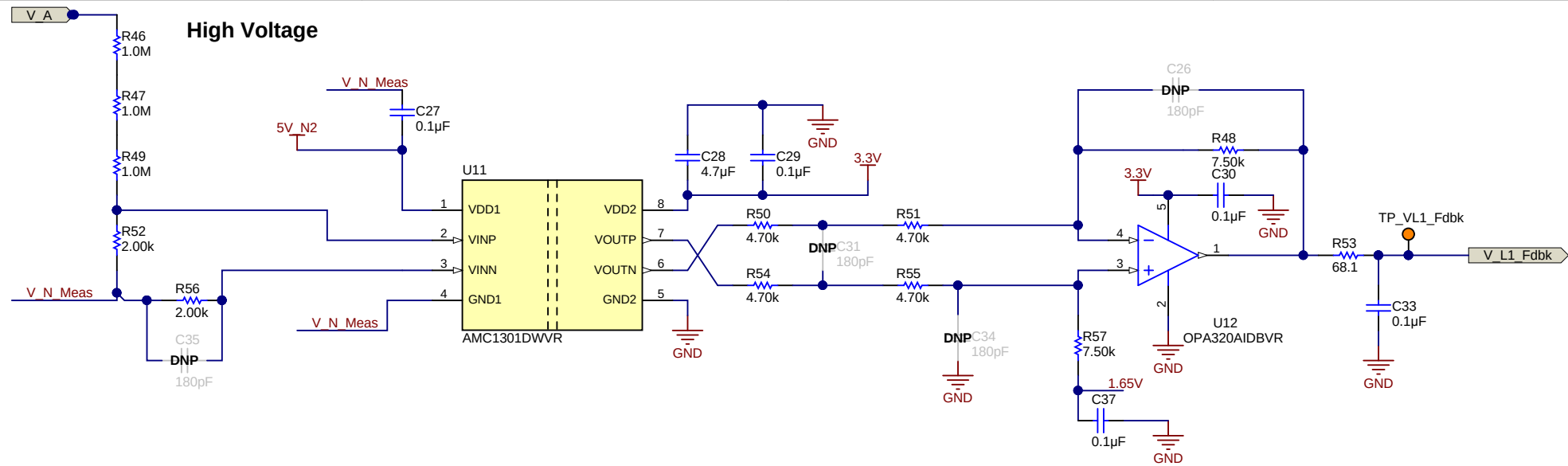
All the nets highlighted are high current carrying and high voltage carrying, appropriate clearance and width is needed



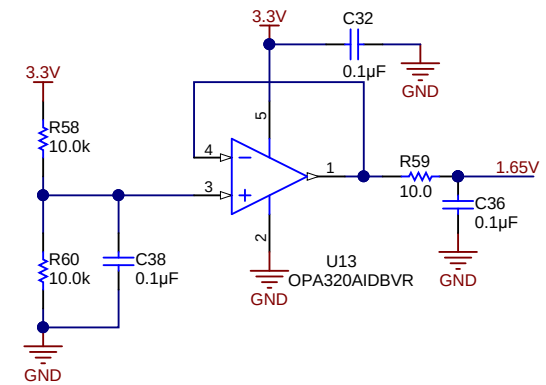


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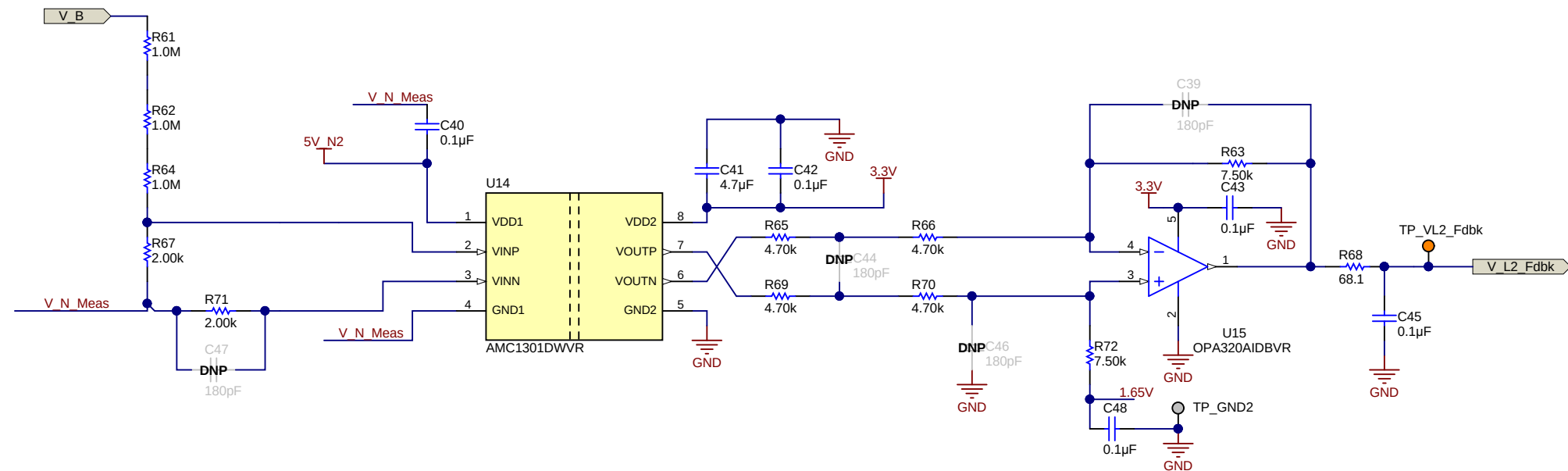
Orderable: TIEVM-VIENNARECT	Designed for: Public Release	Mod. Date: 12/20/2017
TID #: TIDM-1000	Project Title: C2000 Three Phase PFC (Vienna Rectifier)	
Number: MCU011	Rev: A	Sheet Title: PWM Gate Drivers
SVN Rev: Version control disabled	Assembly Variant: 001	Sheet: 4 of 10
Drawn By: Manish Bhardwaj	File: MCU011A_PWMDrivers.SchDoc	Size: B
Engineer: Manish Bhardwaj	Contact: http://www.ti.com/support	



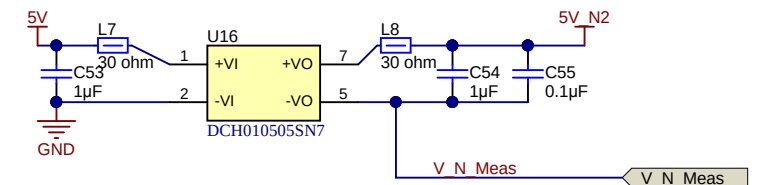
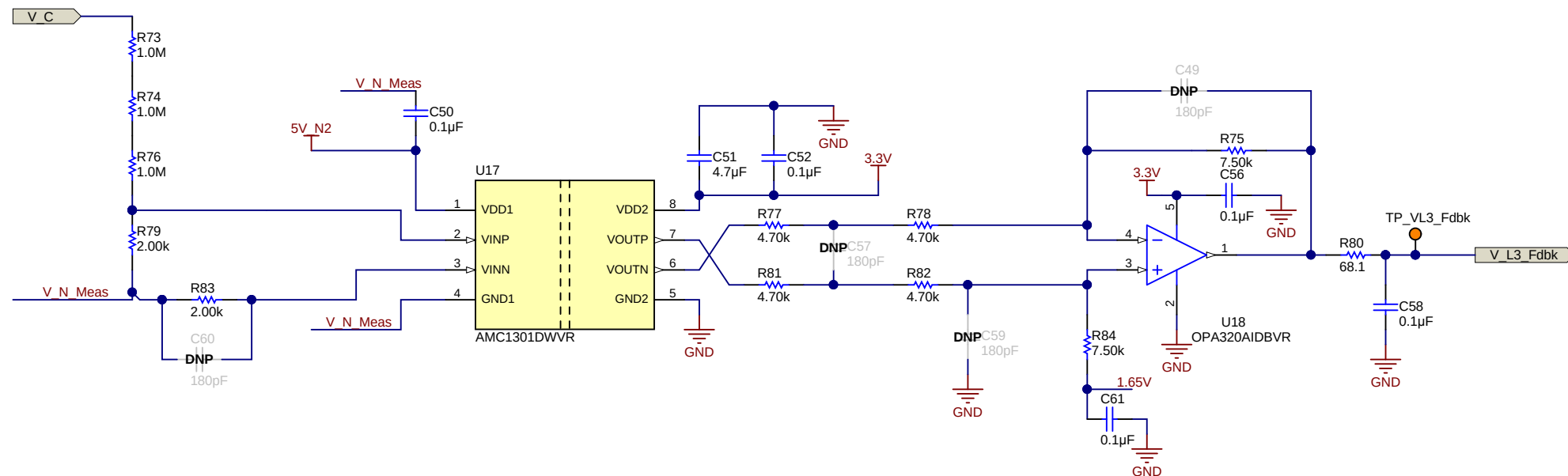
AC Input Voltage Sensing



High Voltage



High Voltage



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Orderable: TIEVM-VIENNARECT	Designed for: Public Release	Mod. Date: 5/26/2017
TID #: TIDM-1000	Project Title: C2000 Three Phase PFC (Vienna Rectifier)	
Number: MCU011	Rev: A	Sheet Title: Input AC Voltage Sensing Interface Circuitry
SVN Rev: Version control disabled	Assembly Variant: 001	Sheet: 5 of 10
Drawn By: Manish Bhardwaj	File: MCU011A_SensingInputVoltage.SchDoc	Size: B
Engineer: Manish Bhardwaj	Contact: http://www.ti.com/support	

Keep these signals away from SD_Data_I1/2/3 and SD_CLK signals , specially V_L1/2/3_Fdbk and V_BusM/P_Fdbk



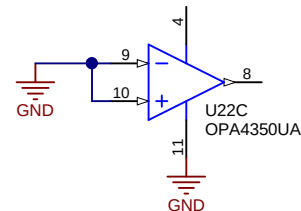
The connection from RSH1 should be close to U7, also a small GND island needs to be created w.r.t. RSH1_2 to help with the layout



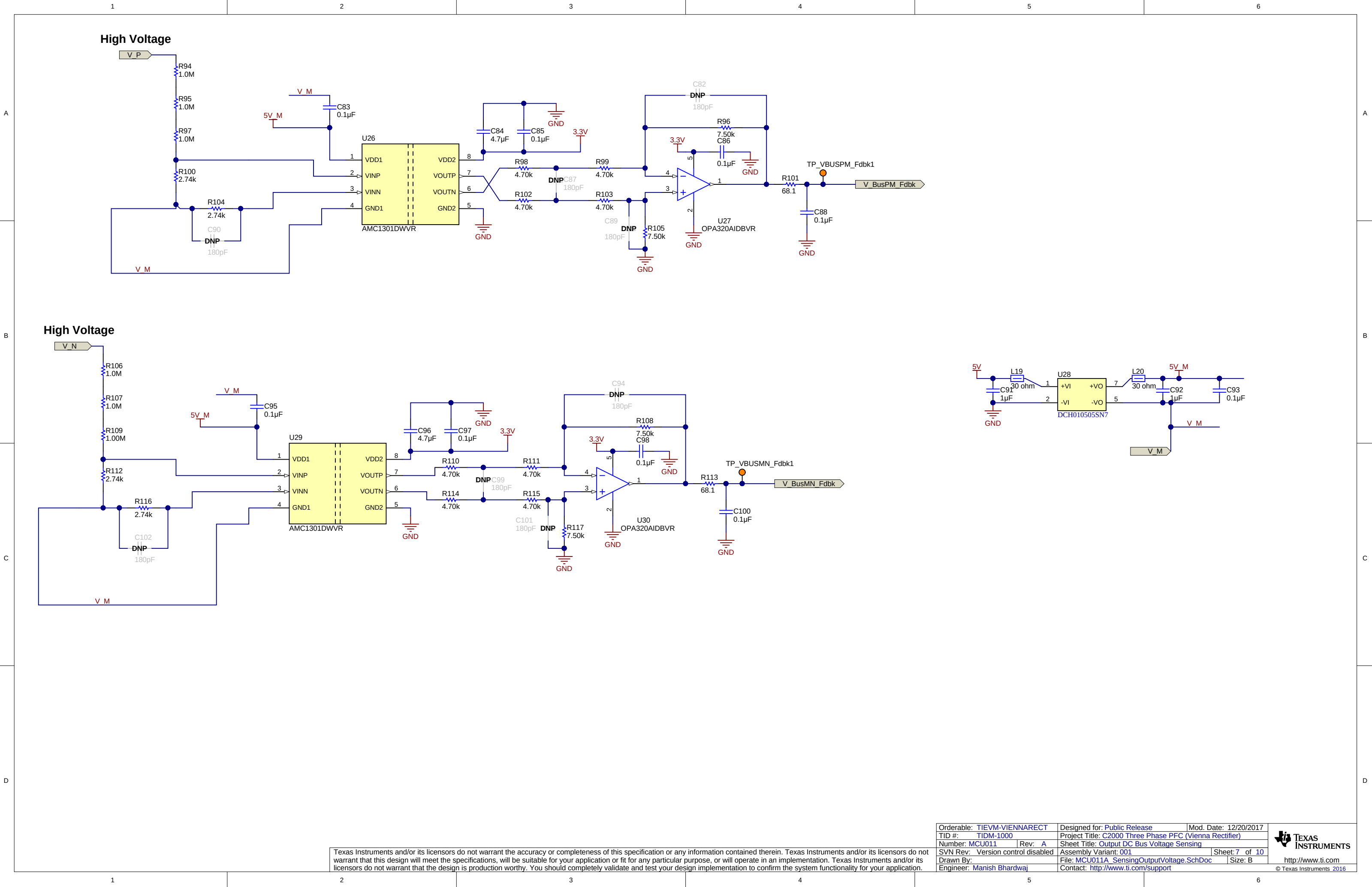
The connection from RSH2 should be close to U8, also a small GND island needs to be created w.r.t. RSH2 2 to help with the layout



The connection from RSH3 should be close to U9, also a small GND island needs to be created w.r.t. RSH3 2 to help with the layout

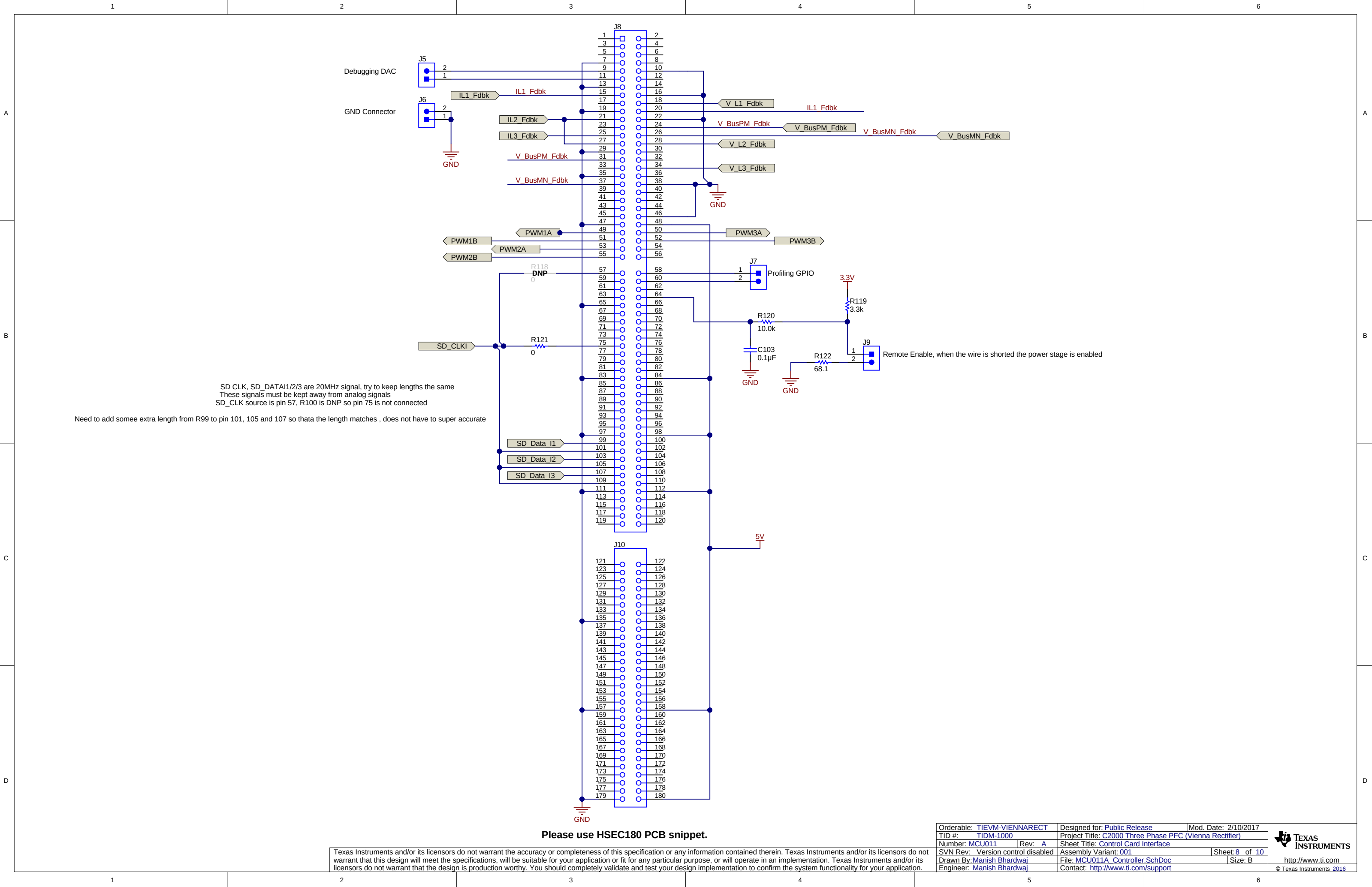


Orderable: TIEVM-VIENNARECT	Designed for: Public Release	Mod. Date: 5/26/2017	 TEXAS INSTRUMENTS http://www.ti.com © Texas Instruments 2016
TID #: TCIDM-1000	Project Title: C2000 Three Phase PFC (Vienna Rectifier)		
Number: MUCU11	Rev: A	Sheet Title: Inductor Current Sensing Interface Circuit	
SVN Rev: Version control disabled	Assembly Variant: 001		
Drawn By: Manish Bhardwaj	File: MCU011A_SensingInductorCurrent.SchDoc	Sheet: 6 of 10	
Engineer: Manish Bhardwaj	Contact: http://www.ti.com/support		



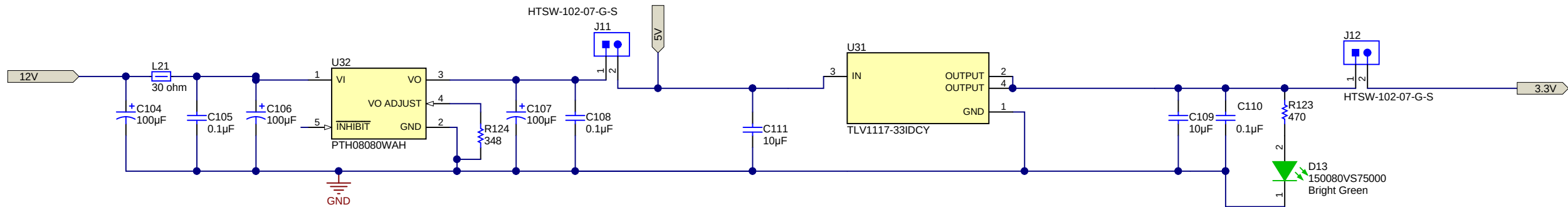
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Orderable: TIEVM-VIENNARECT	Designed for: Public Release	Mod. Date: 12/20/2017
TID #: TIDM-1000	Project Title: C2000 Three Phase PFC (Vienna Rectifier)	
Number: MCU011	Rev: A	Sheet Title: Output DC Bus Voltage Sensing
SVN Rev: Version control disabled	Assembly Variant: 001	Sheet: 7 of 10
Drawn By: Manish Bhardwaj	File: MCU011A_SensingOutputVoltage.SchDoc	Size: B
Engineer: Manish Bhardwaj	Contact: http://www.ti.com/support	



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Orderable: TIEVM-VIENNARECT	Designed for: Public Release	Mod. Date: 2/10/2017
TID #: TIDM-1000	Project Title: C2000 Three Phase PFC (Vienna Rectifier)	
Number: MCU011	Rev: A	Sheet Title: Control Card Interface
SVN Rev: Version control disabled	Assembly Variant: 001	Sheet: 8 of 10
Drawn By: Manish Bhardwaj	File: MCU011A_Controller.SchDoc	Size: B
Engineer: Manish Bhardwaj	Contact: http://www.ti.com/support	



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Orderable: TIEVM-VIENNARECT	Designed for: Public Release	Mod. Date: 12/8/2016
TID #: TIDM-1000	Project Title: C2000 Three Phase PFC (Vienna Rectifier)	
Number: MCU011	Rev: A	Sheet Title: Board Bias Power Supply
SVN Rev: Version control disabled	Assembly Variant: 001	Sheet: 9 of 10
Drawn By: Manish Bhardwaj	File: MCU011A_ControllerPower.SchDoc	Size: B
Engineer: Manish Bhardwaj	Contact: http://www.ti.com/support	

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