

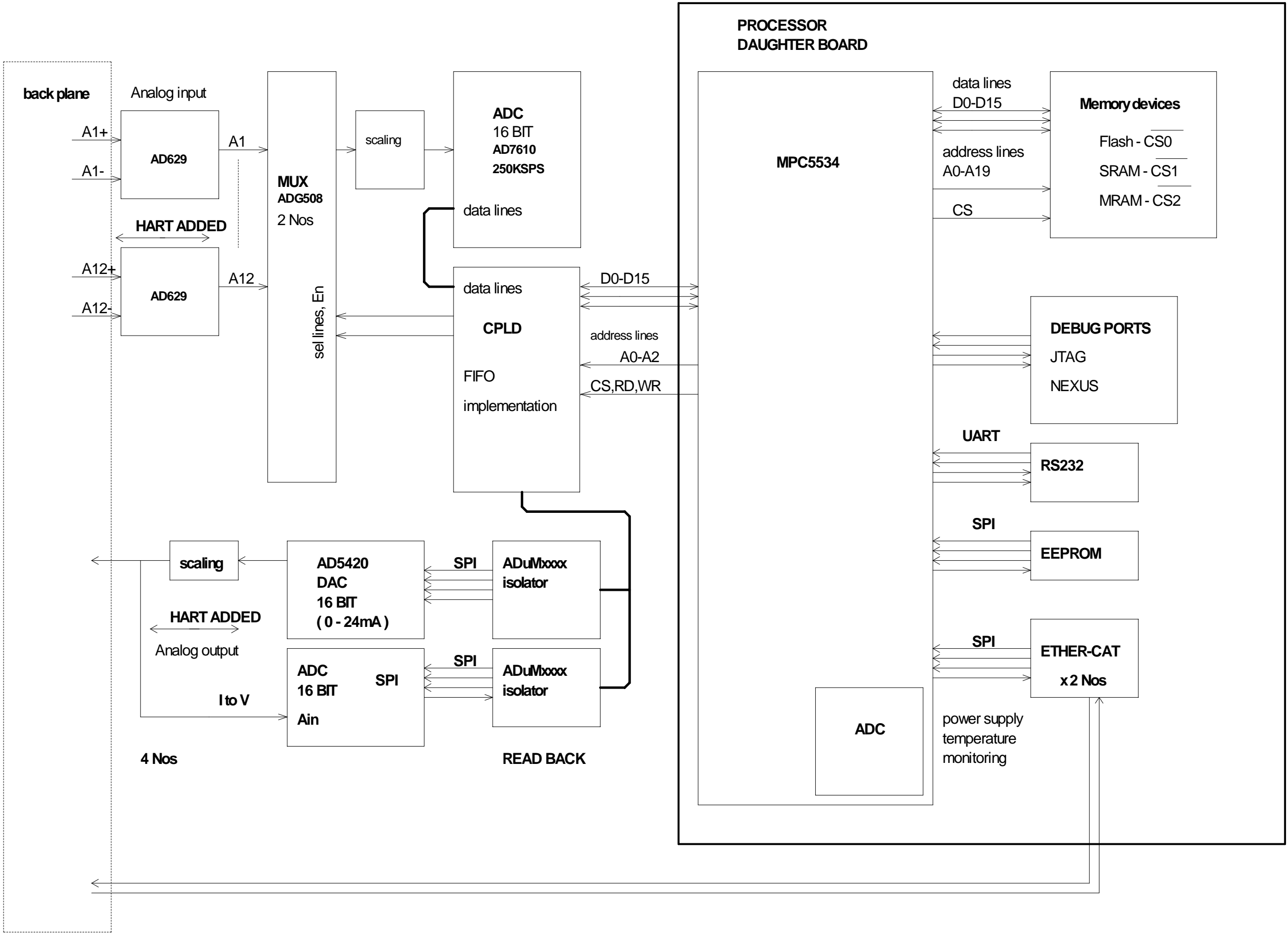
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<div>NEXT GENERATION PLATFORM</div> <div>IOP_AM1 ANALOG BOARD REV_A</div>																																									
REVISION HISTORY																																									
<table><thead><tr><th>REV</th><th>DATE</th><th>AUTHOR</th><th>DESCRIPTION/MODIFICATIONS</th></tr></thead><tbody><tr><td>1.0</td><td>29.07.11</td><td>Amith Thomas</td><td rowspan="4">Preliminary release</td></tr><tr><td>2.0</td><td>11.10.11</td><td>Muthuvelu.D</td></tr><tr><td>3.0</td><td>23.02.12</td><td>Muthuvelu.D</td></tr><tr><td>A</td><td>24.09.12</td><td>Muthuvelu.D</td></tr></tbody></table>						REV	DATE	AUTHOR	DESCRIPTION/MODIFICATIONS	1.0	29.07.11	Amith Thomas	Preliminary release	2.0	11.10.11	Muthuvelu.D	3.0	23.02.12	Muthuvelu.D	A	24.09.12	Muthuvelu.D																			
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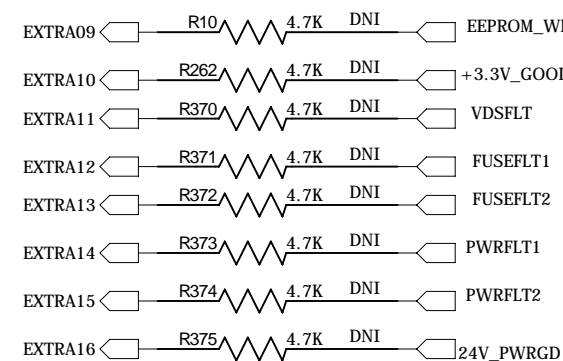
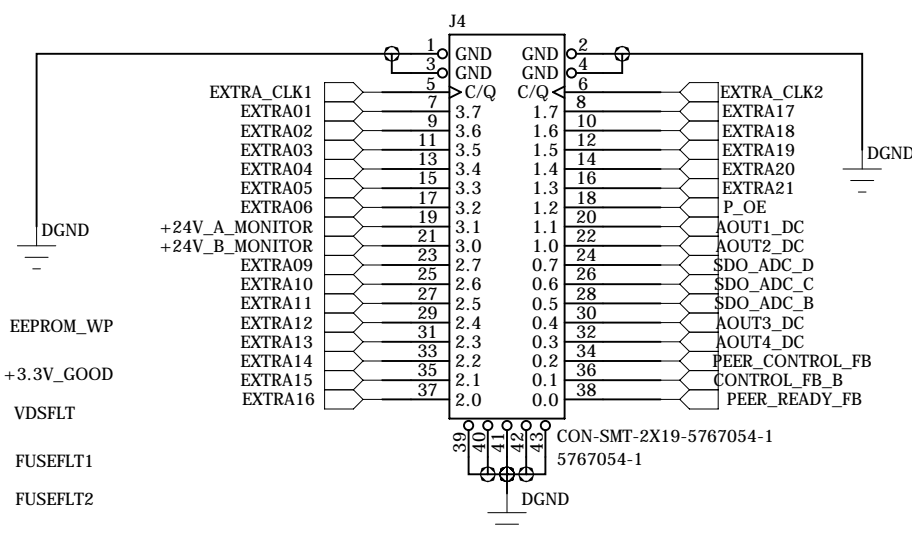
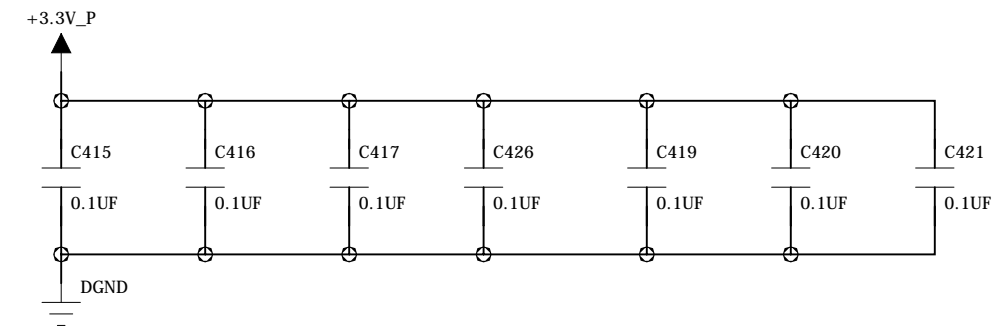
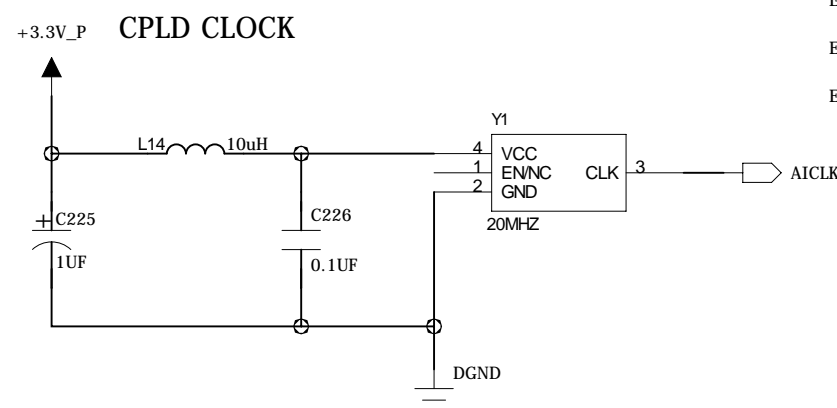
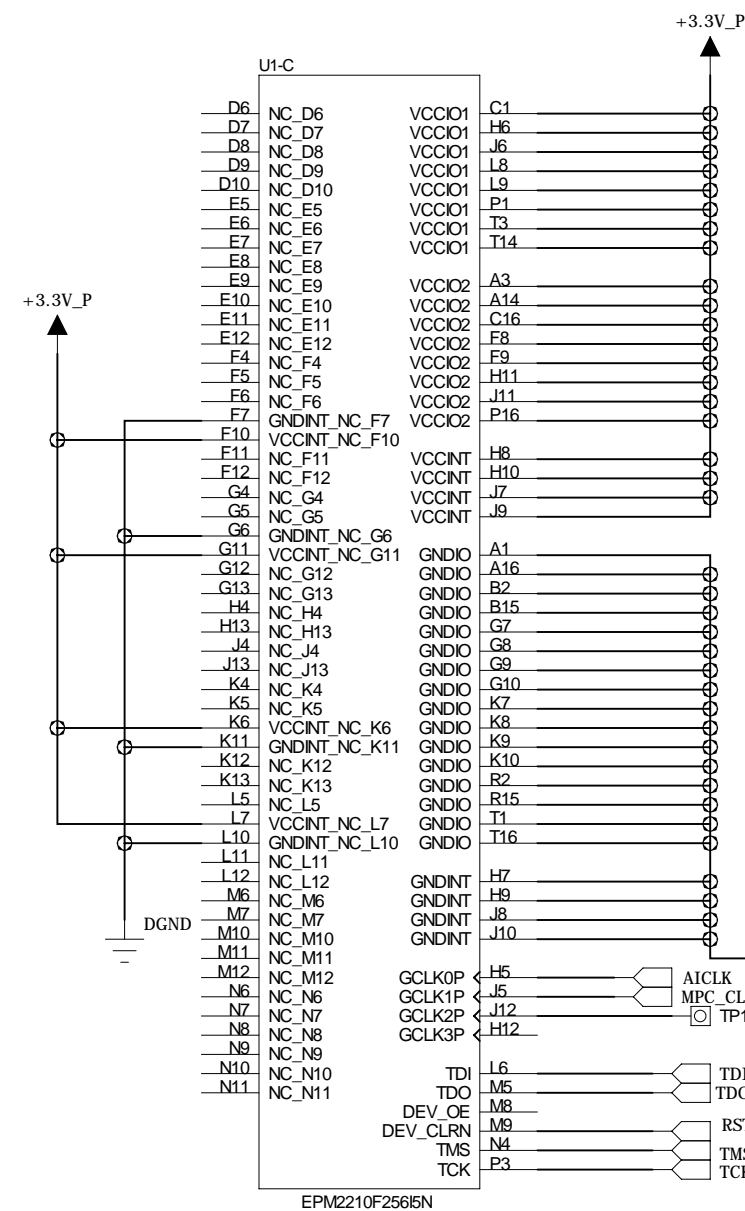
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SH
2

REV.
REV_A



APPROVALS		DATE	COMPRESSOR CONTROLS CORPORATION			
DRAWN Muthuvelu.D		14 December 2012	4725 121st Street - Des Moines, Iowa 50323			
CHECKED Manju Reddy		14 December 2012	BLOCK_DIAGRAM			
ENGINEER Muthuvelu.D			SIZE C	DWG. NO. <Drawing Number>	SHEET 2 of 23	PROD REV. 4.0
				FILE CCC_IOP-AM1_REVA.sch	SCALE <Scale>	REV. 4.0

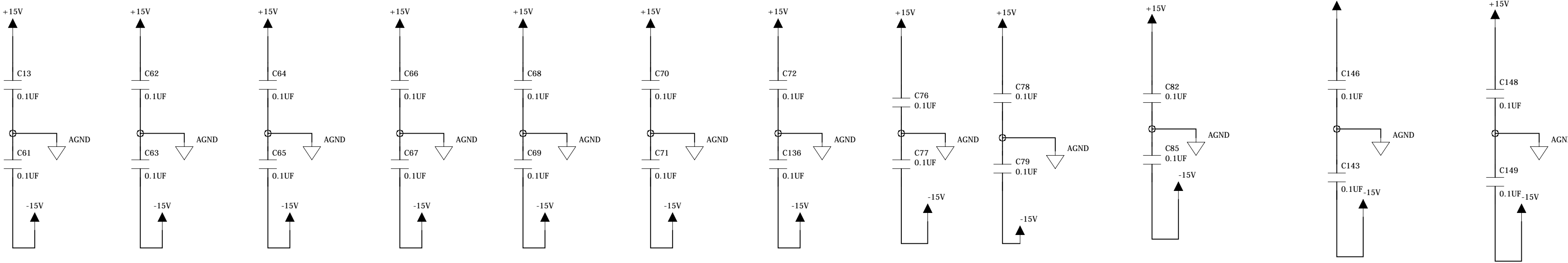
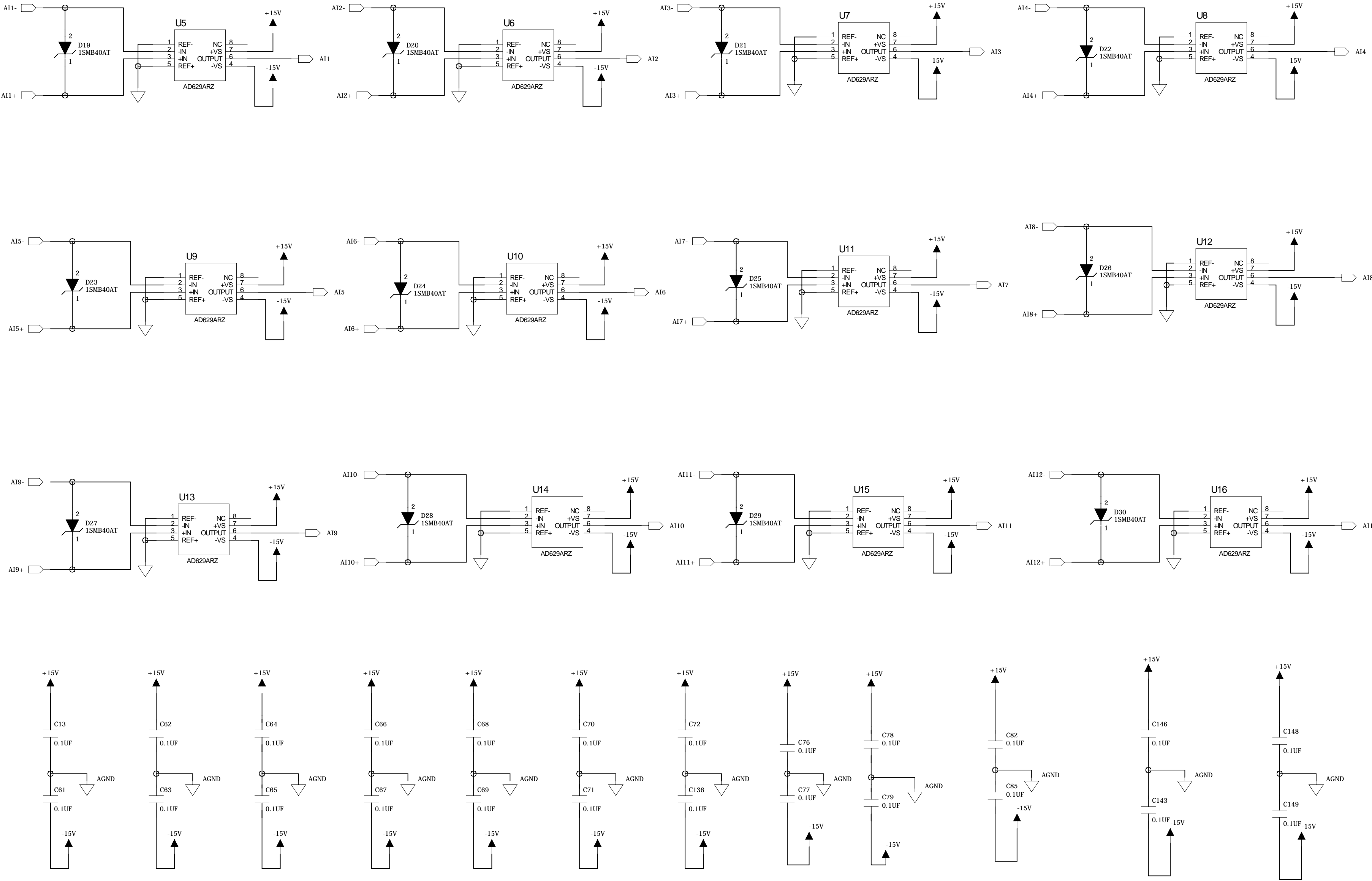


APPROVALS		DATE		COMPRESSOR CONTROLS CORPORATION			
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CHECKED Manju Reddy		14 December 2012		CPLD			
ENGINEER Muthuvelu.D		SIZE C	DWG. NO. <Drawing Number>		SHEET 3 of 23		PROD REV. 4_0
			FILE CCC_IOP-AM1_REVA.sch		SCALE <Scale>		

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DWG. NO. <Drawing Number> SH 4 REV. REV_A

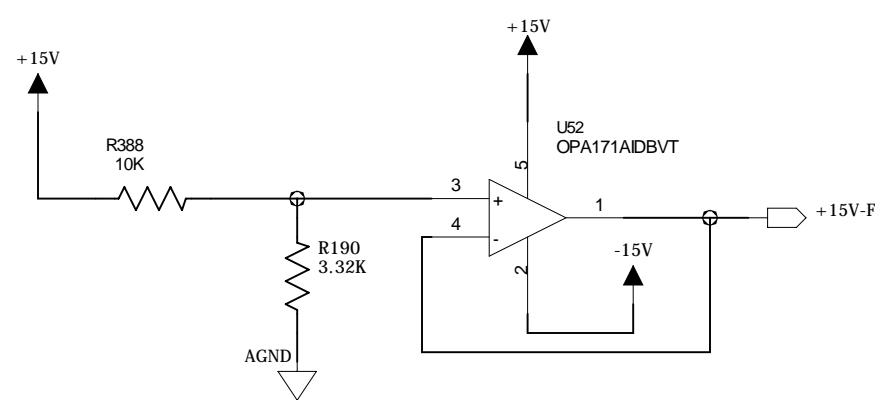
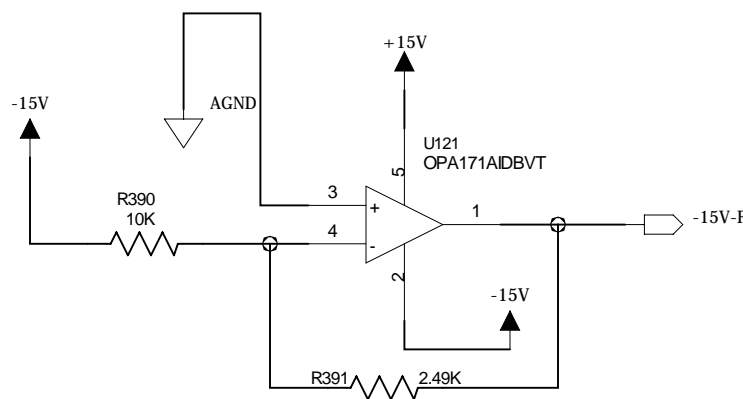
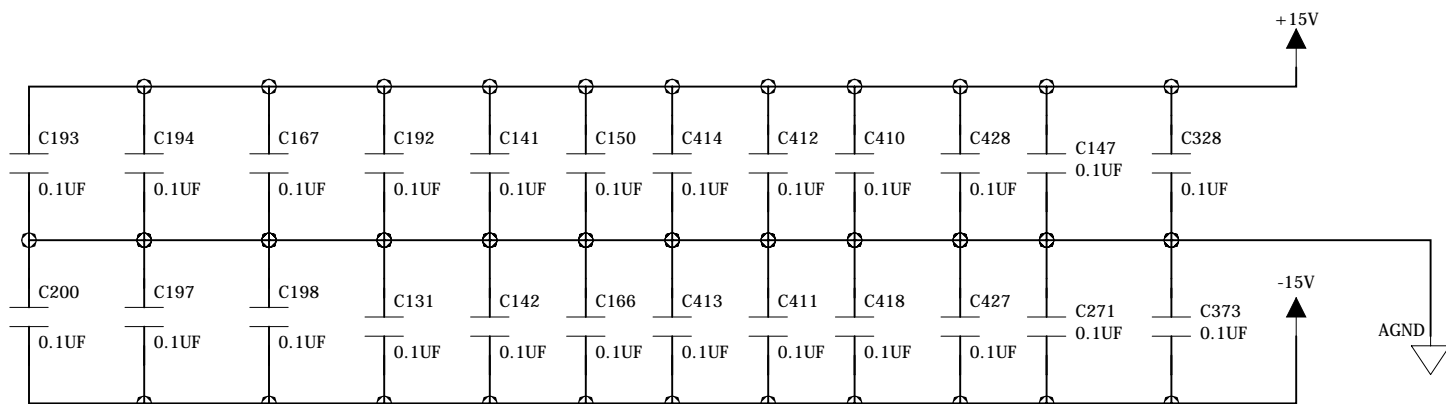
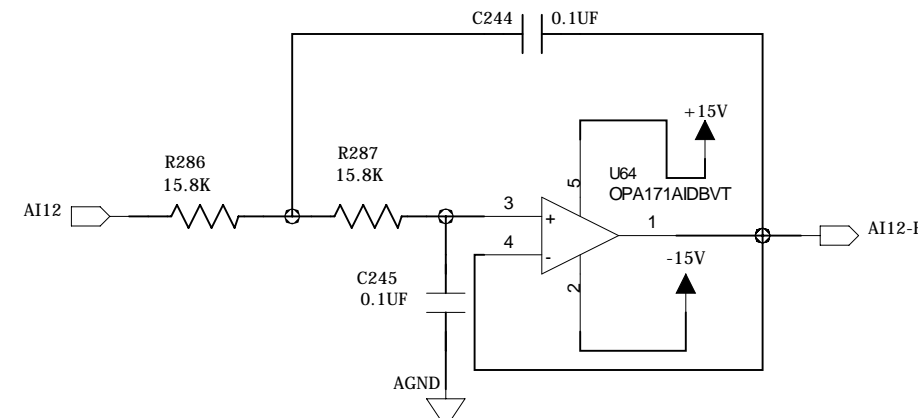
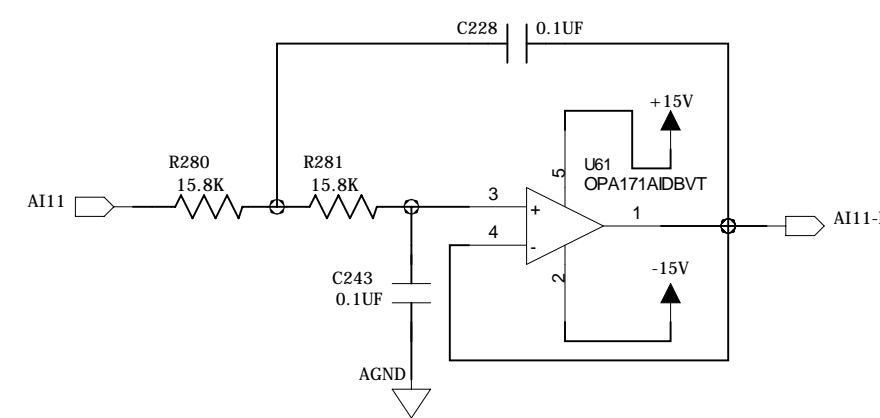
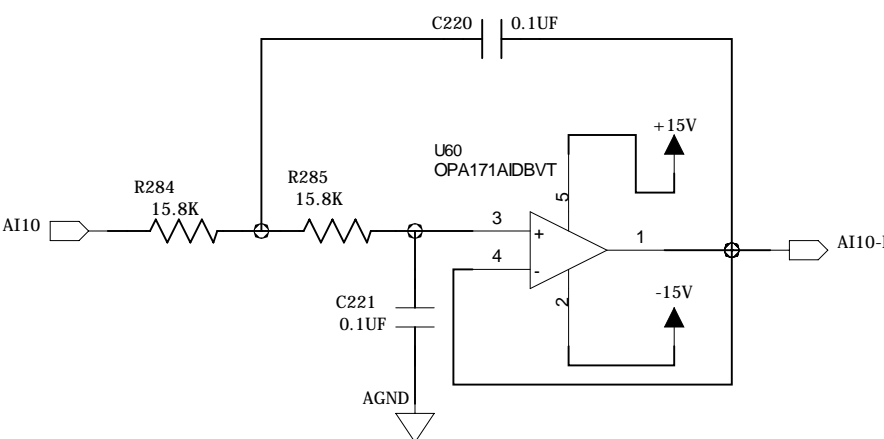
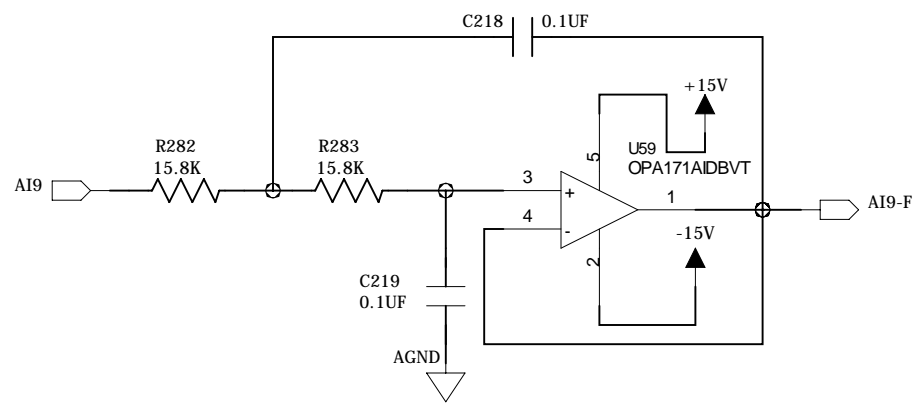
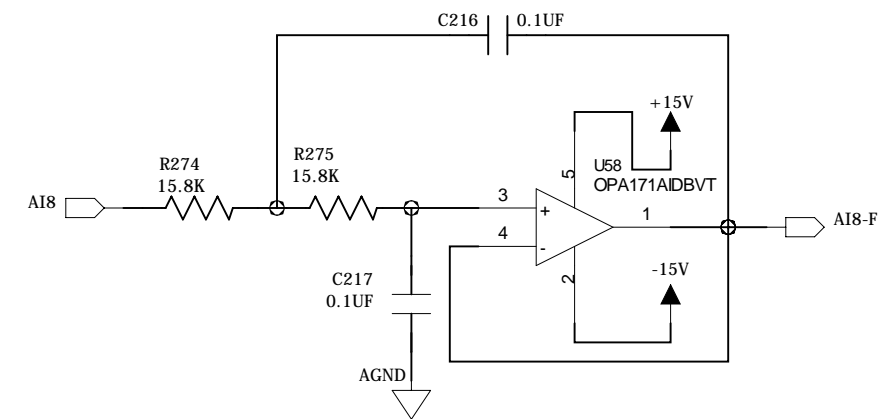
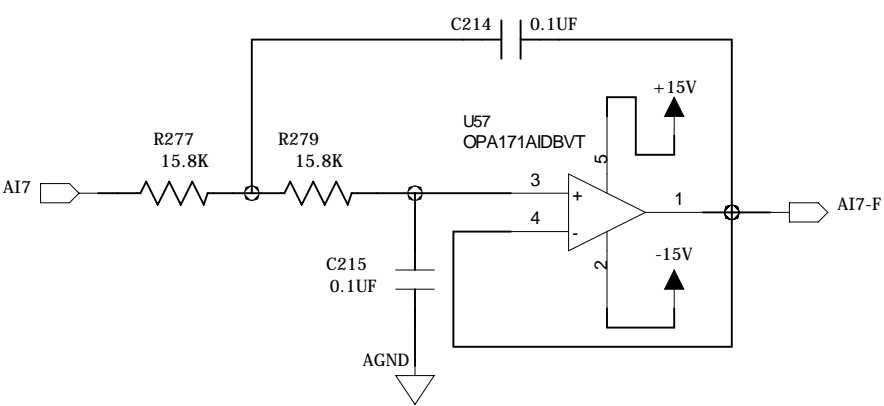
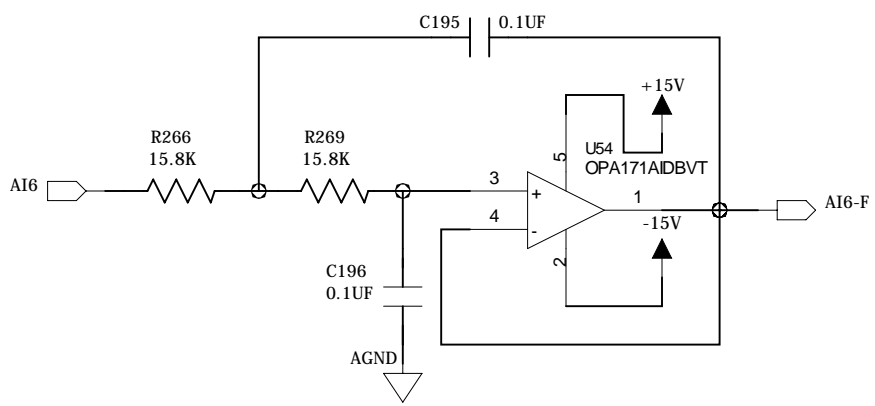
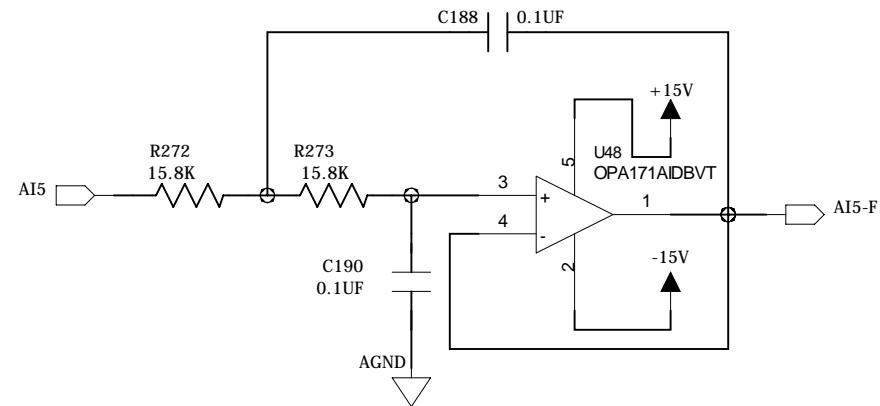
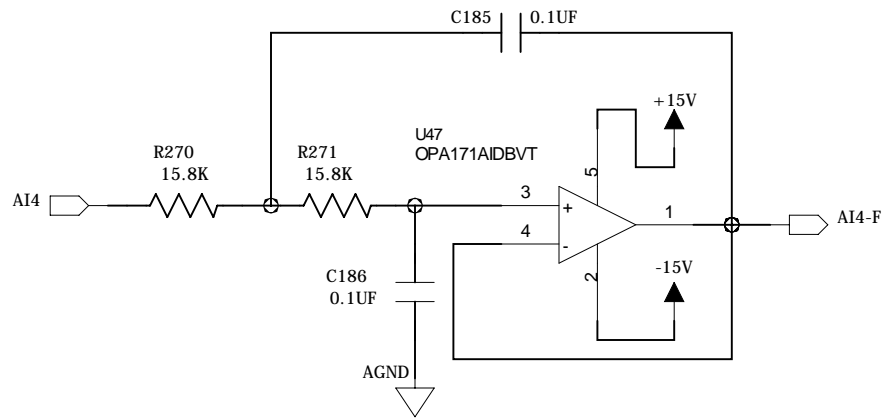
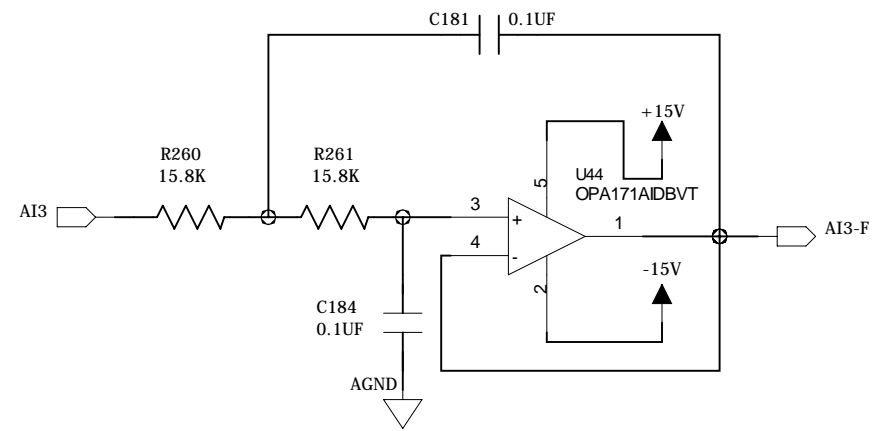
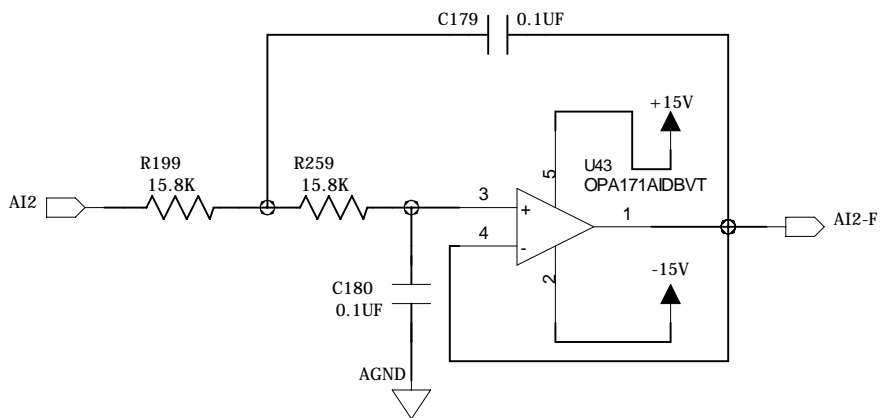
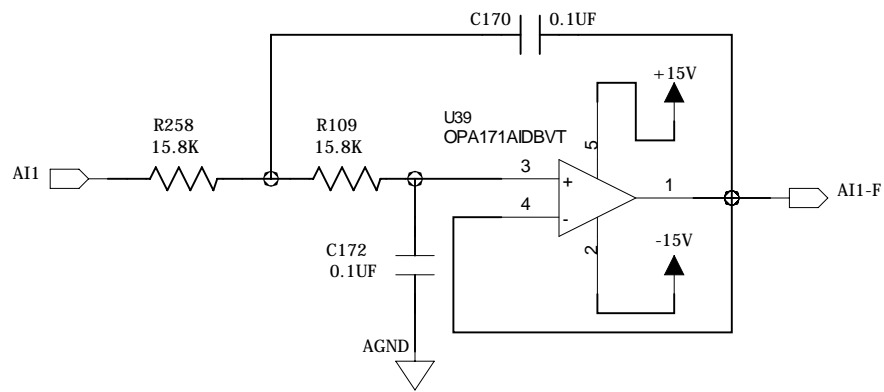
ANALOG INPUTS (0 TO 24mA)



APPROVALS		DATE	COMPRESSOR CONTROLS CORPORATION			
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CHECKED		14 December 2012	ANALOG_IINPUTS_ISOLATION			
ENGINEER			SIZE	DWG. NO.	SHEET	PROD
Muthuvelu.D			C	<Drawing Number>	4 of 23	REV.
			FILE	CCC_IOP-AM1_REVA.sch	SCALE	REV_A

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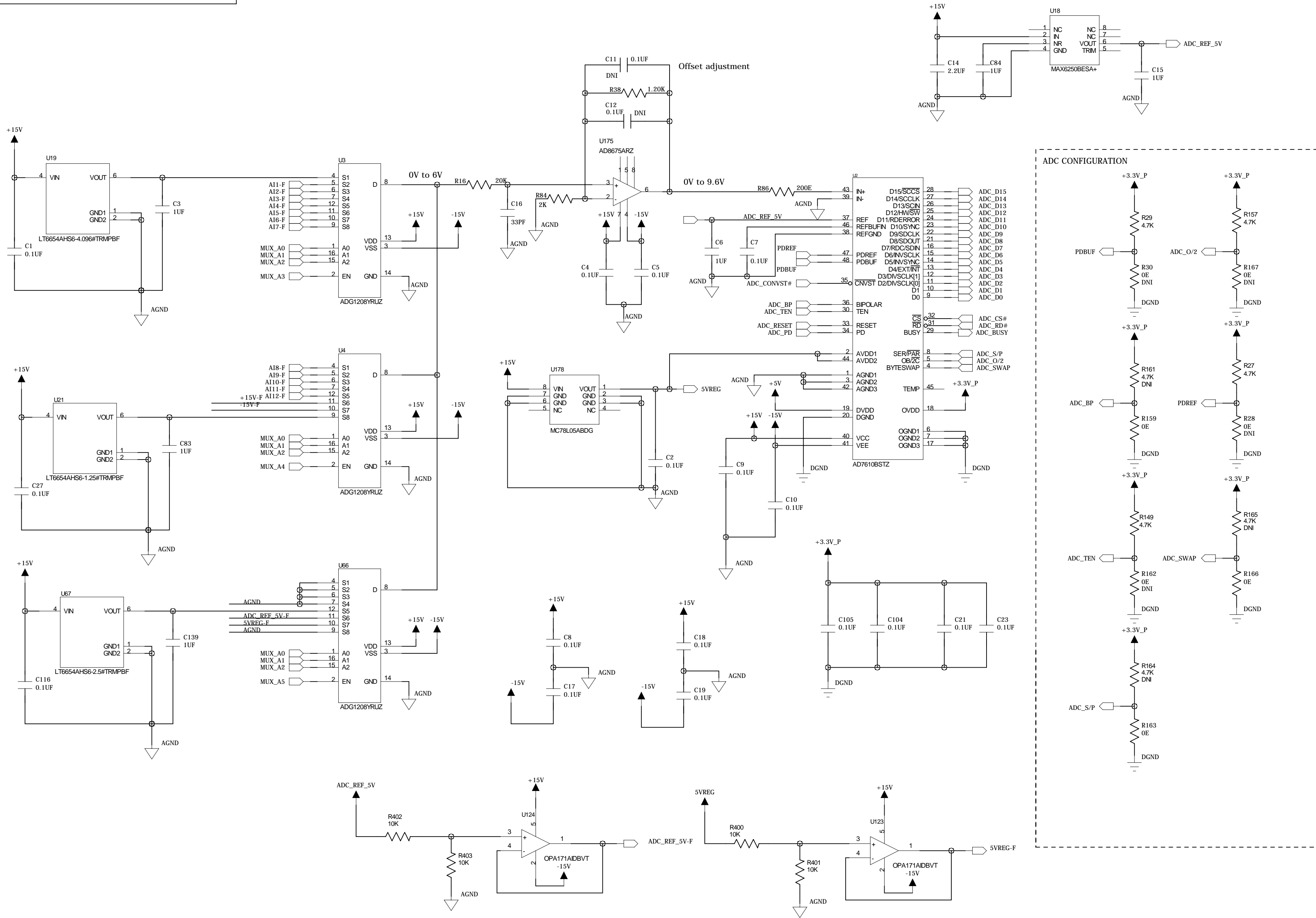
DWG. NO. <Drawing Number> SH 5 REV. REV_A



APPROVALS		DATE	COMPRESSOR CONTROLS CORPORATION			
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CHECKED		14 December 2012	FILTERS			
ENGINEER			SIZE	DWG. NO.	SHEET	PROD
Muthuvelu.D			C	<Drawing Number>	5 of 23	REV.
			FILE	CCC_IOP-AM1_REVA.sch	SCALE	REV_A

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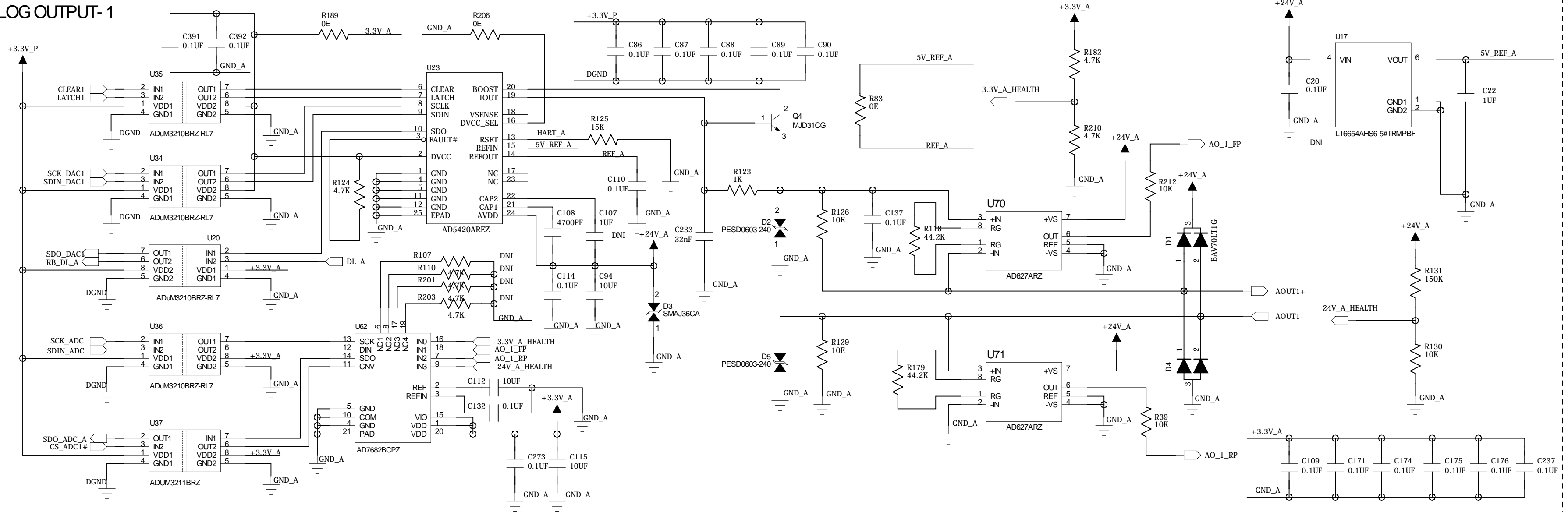


APPROVALS		DATE	COMPRESSOR CONTROLS CORPORATION			
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CHECKED		14 December 2012	PAGE06:ANALOG_INPUTS_ADC_CPLD			
ENGINEER			SIZE	DWG. NO.	SHEET	PROD
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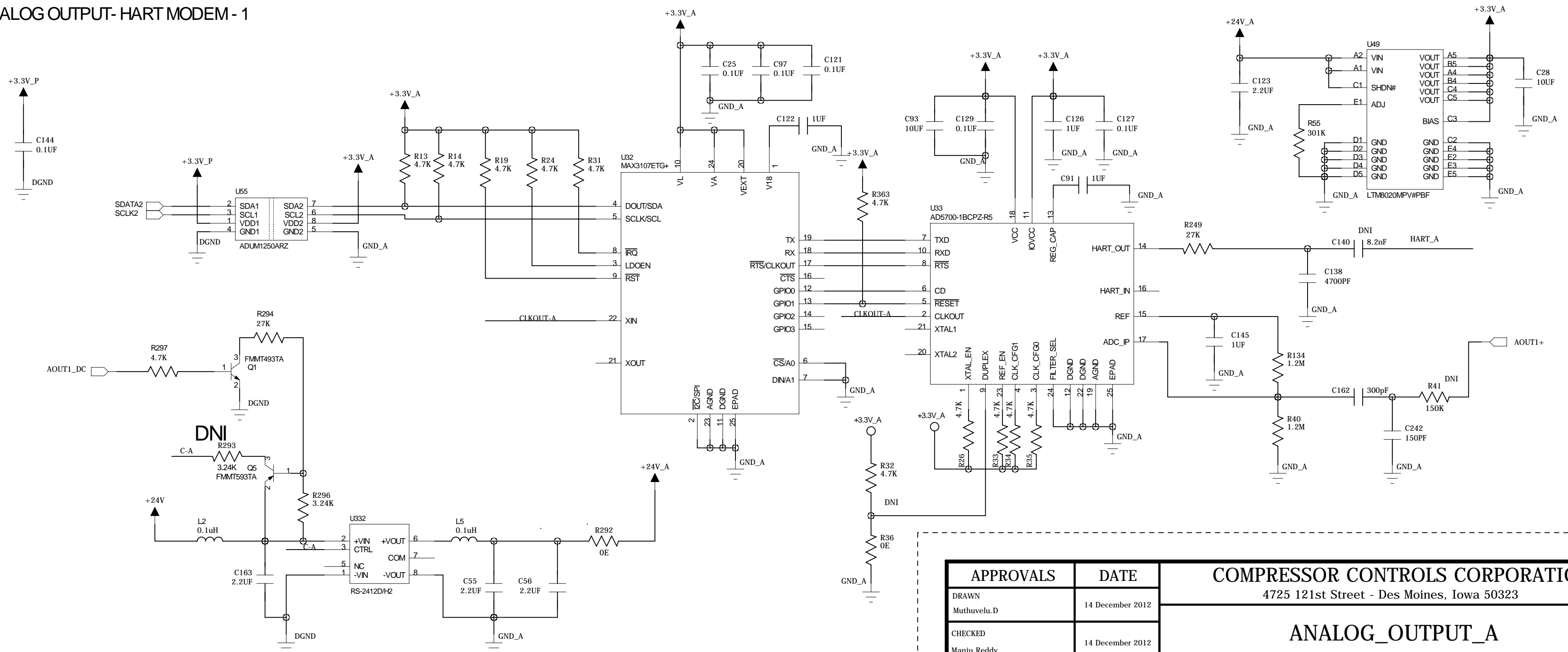
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DWG. NO. SH REV.
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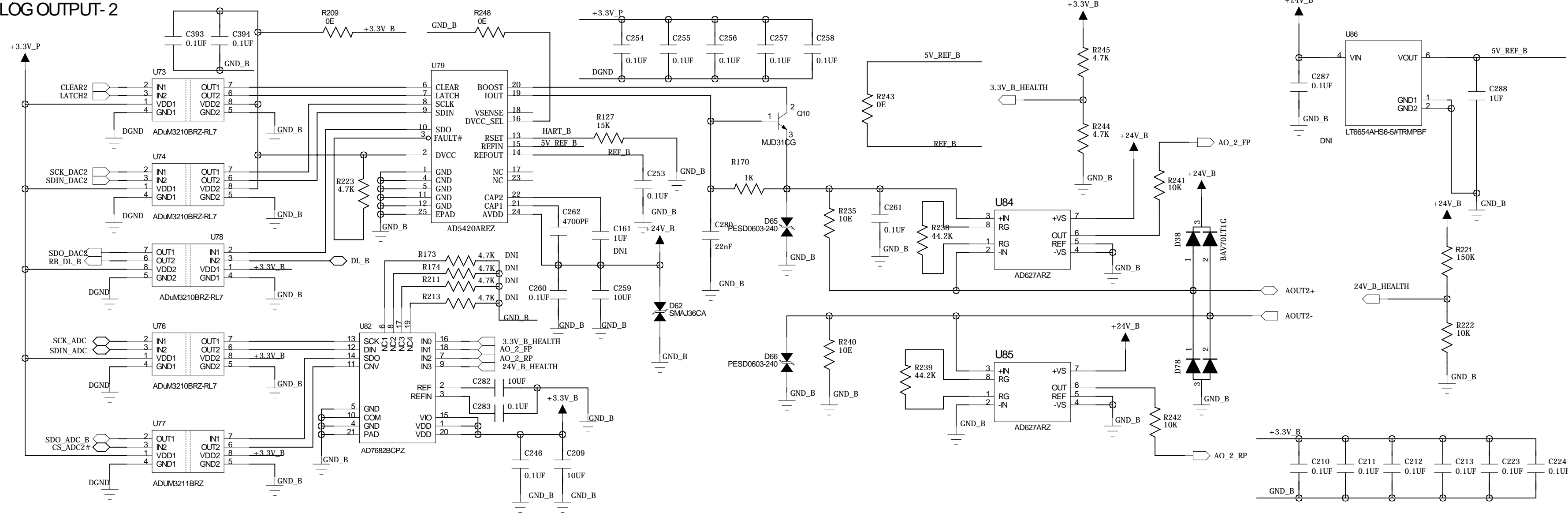
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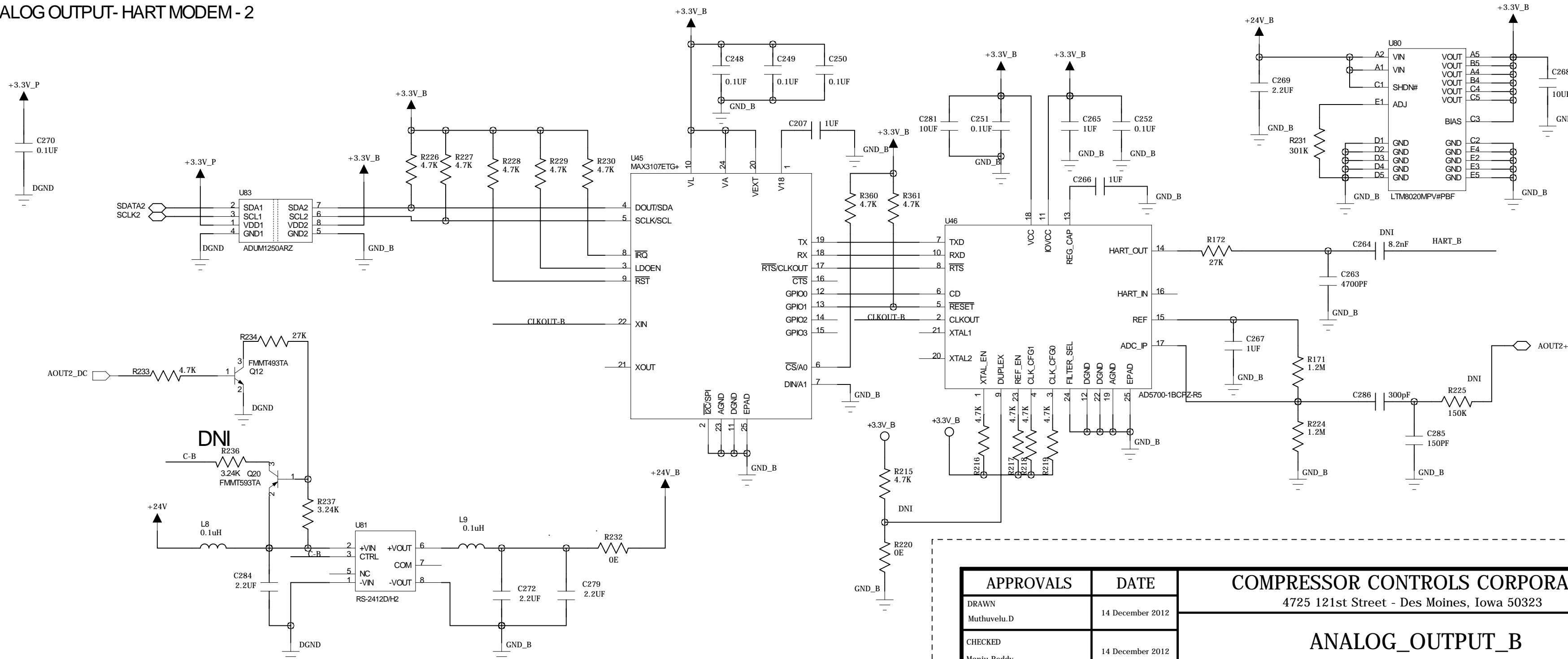
ANALOG OUTPUT- HART MODEM - 1



APPROVALS		DATE	COMPRESSOR CONTROLS CORPORATION			
DRAWN		14 December 2012	4725 121st Street - Des Moines, Iowa 50323			
CHECKED		14 December 2012	ANALOG_OUTPUT_A			
ENGINEER			SIZE	DWG. NO.	SHEET	PROD
Muthuvelu.D			C	<Drawing Number>	7 of 23	REV.
			FILE	CCC_IOP-AM1_REVA.sch	SCALE	REV_A



ANALOG OUTPUT- HART MODEM - 2

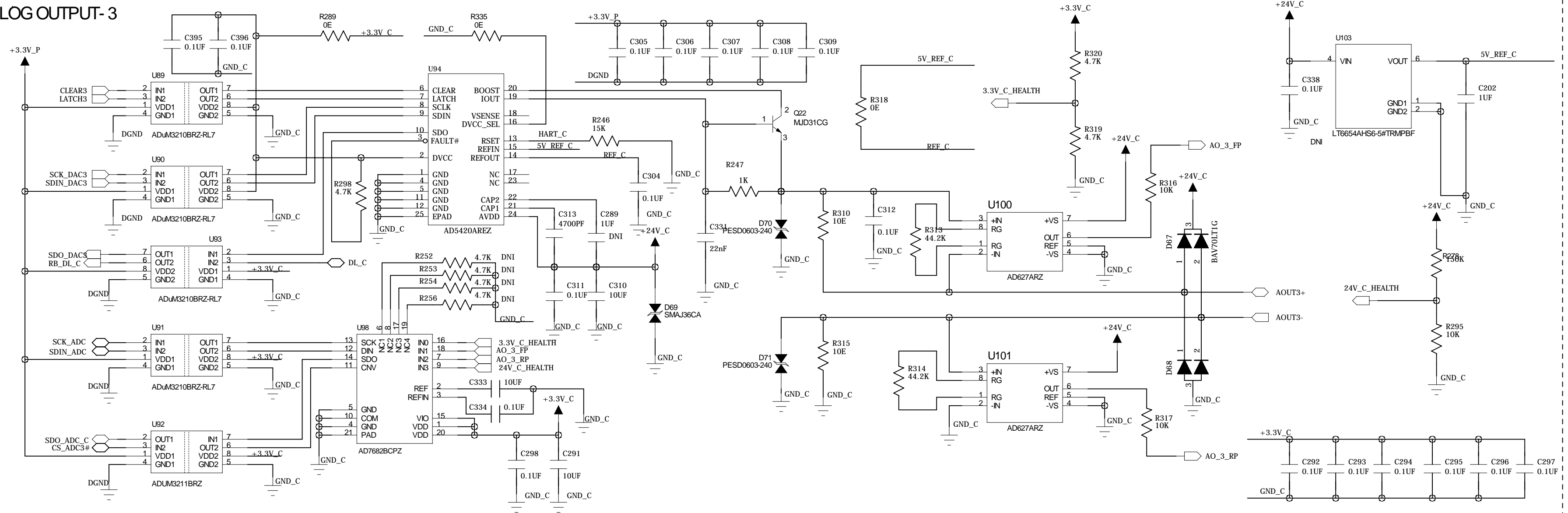


APPROVALS		DATE		COMPRESSOR CONTROLS CORPORATION 4725 121st Street - Des Moines, Iowa 50323			
DRAWN Muthuvelu.D		14 December 2012		ANALOG_OUTPUT_B			
CHECKED Manju Reddy		14 December 2012					
ENGINEER Muthuvelu.D				SIZE C	DWG. NO. C<Drawing Number>	SHEET 8 of 23	PROD REV.
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DWG. NO. <Drawing Number> SH 9 REV. REV_A

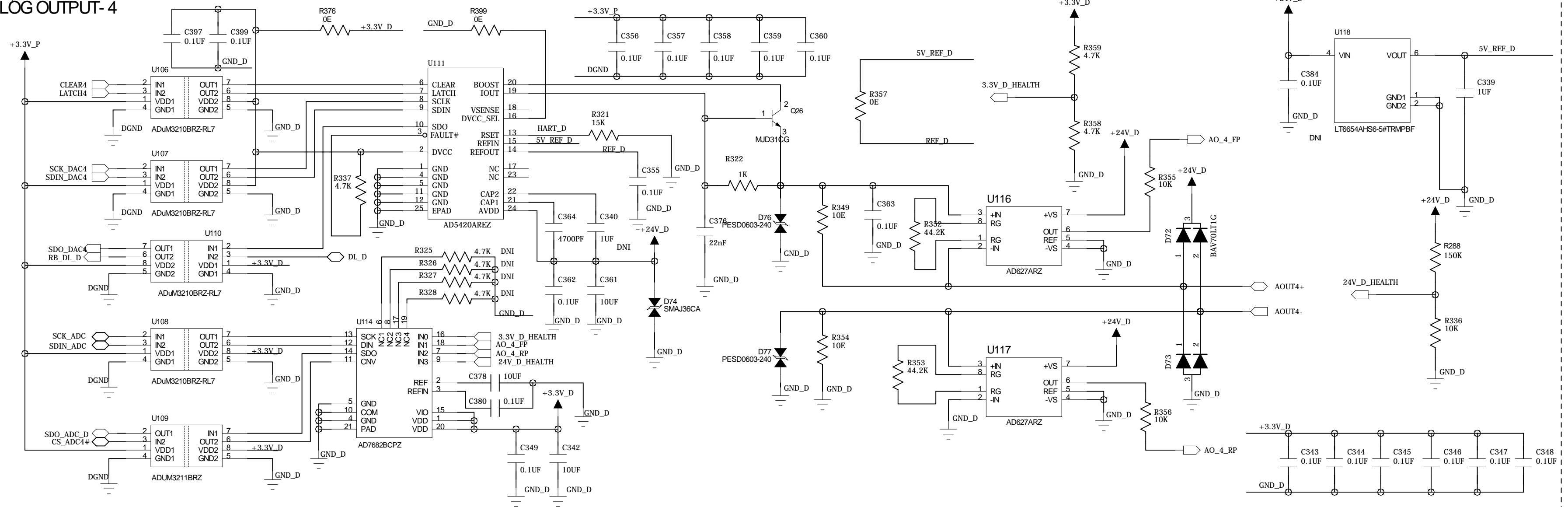
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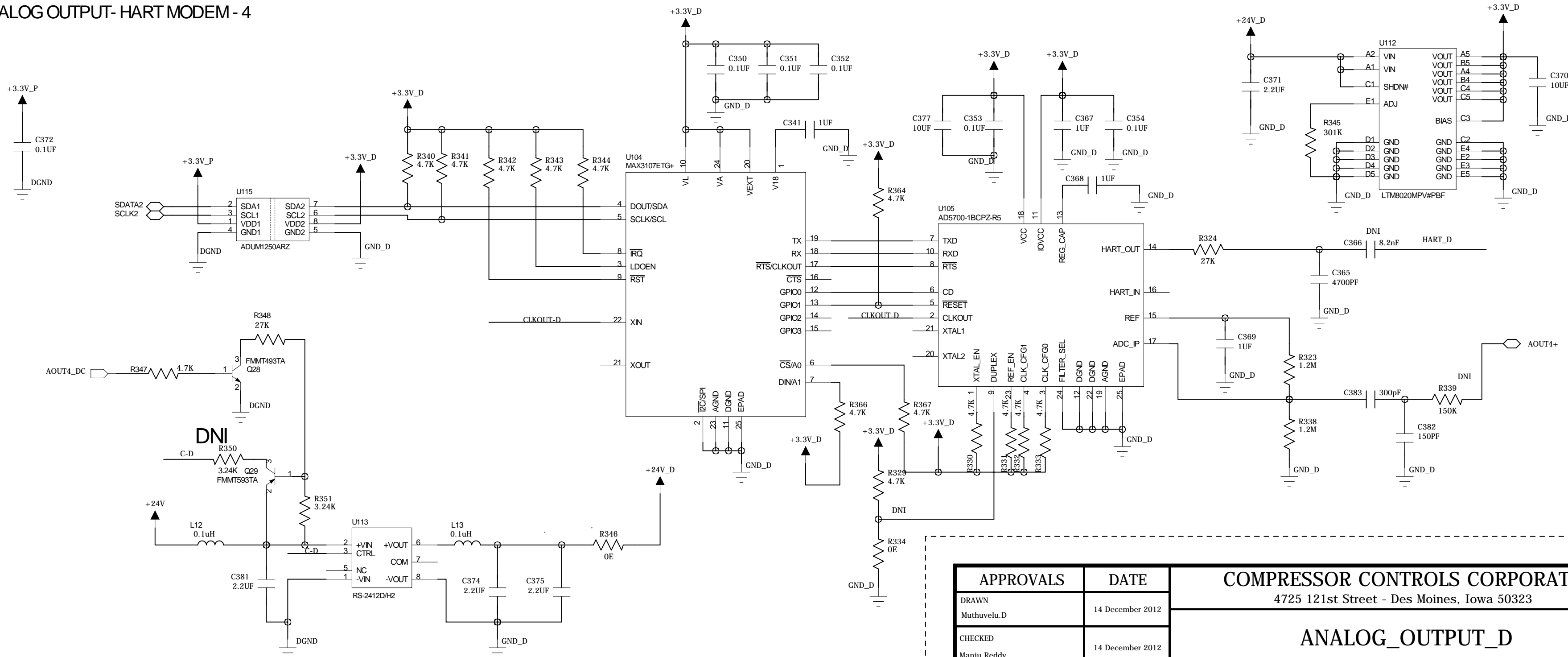
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DWG. NO. <Drawing Number> SH 10 REV. REV_A

ANALOG OUTPUT- 4



ANALOG OUTPUT- HART MODEM - 4



APPROVALS		DATE	COMPRESSOR CONTROLS CORPORATION			
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CHECKED		14 December 2012	ANALOG_OUTPUT_D			
ENGINEER			SIZE	DWG. NO.	SHEET	PROD
Muthuvelu.D			C	<Drawing Number>	10 of 23	REV.
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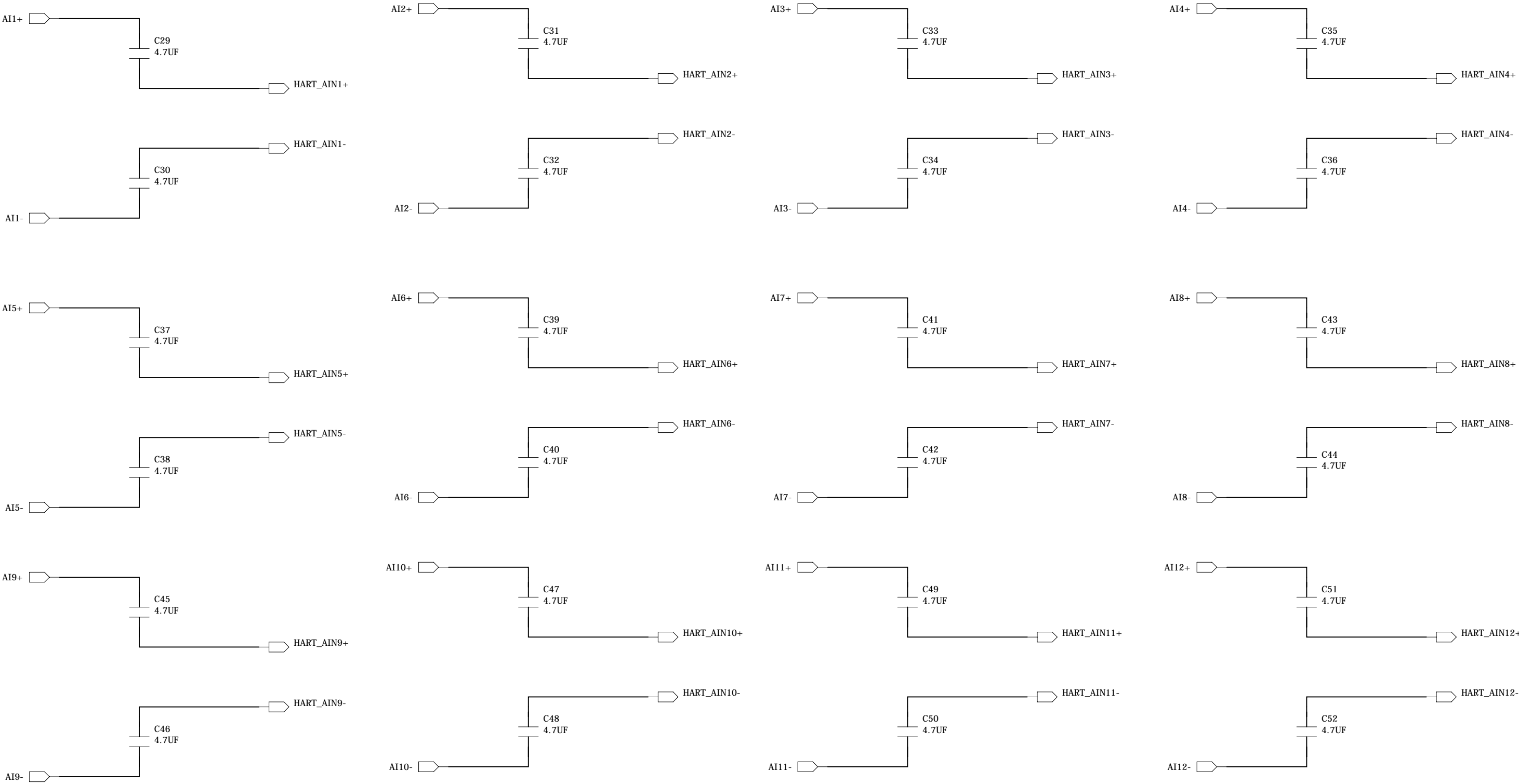
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DWG. NO.
<Drawing Number>

SH
11

REV.
REV_A

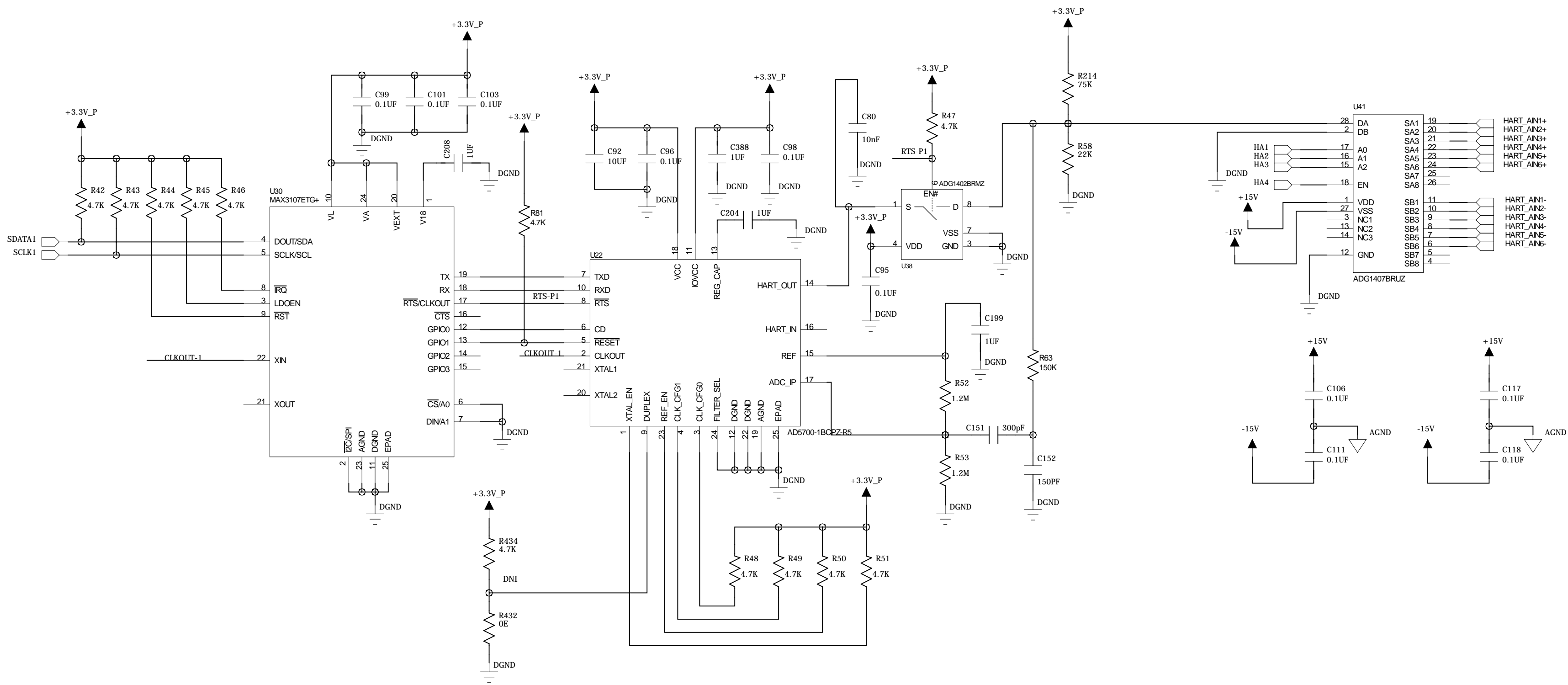
ANALOG INPUTS (0 TO 24mA)



APPROVALS		DATE	COMPRESSOR CONTROLS CORPORATION 4725 121st Street - Des Moines, Iowa 50323			
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CHECKED Manju Reddy		14 December 2012				
ENGINEER Muthuvelu.D			SIZE C	DWG. NO. FILE <Drawing Number> CCC_IOP-AM1_REVA.sch	SHEET SCALE 11 of 23 <Scale>	PROD REV. REV_A

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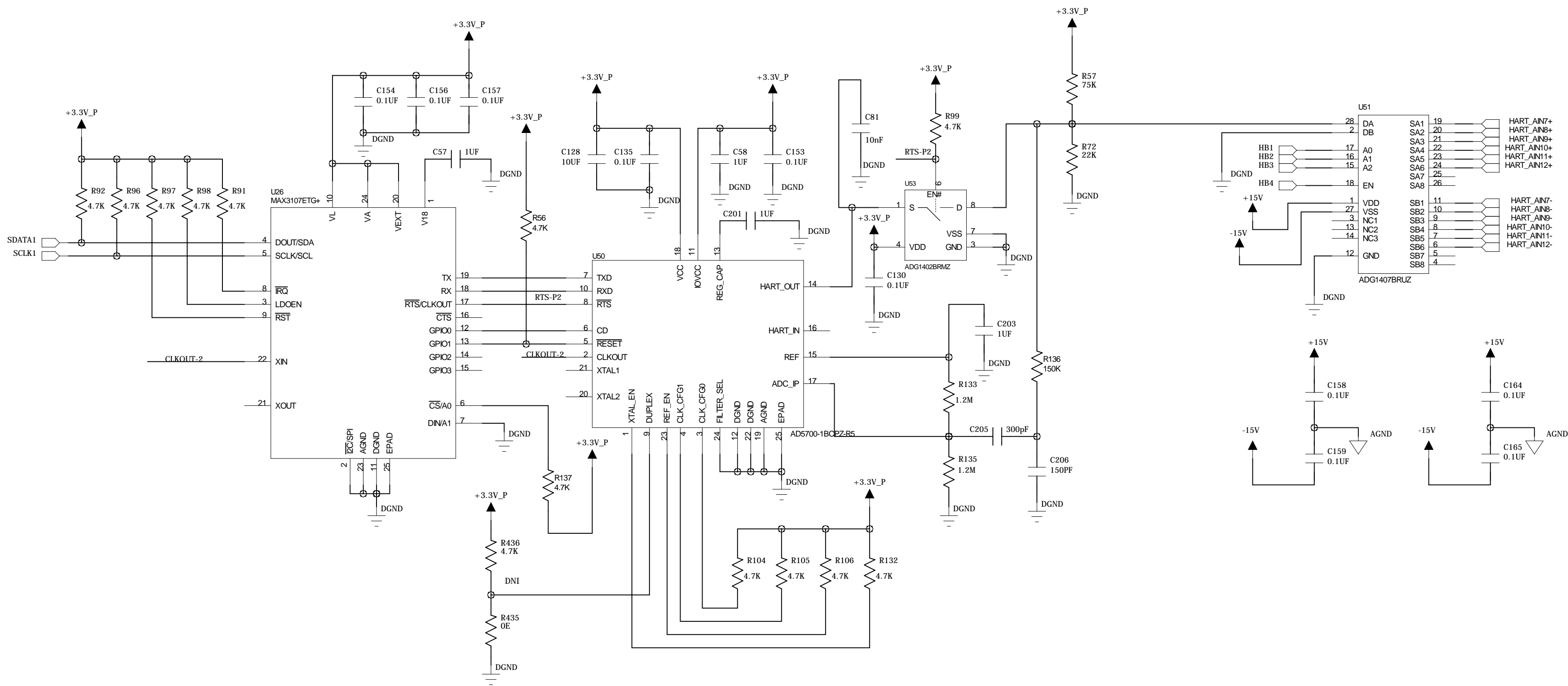
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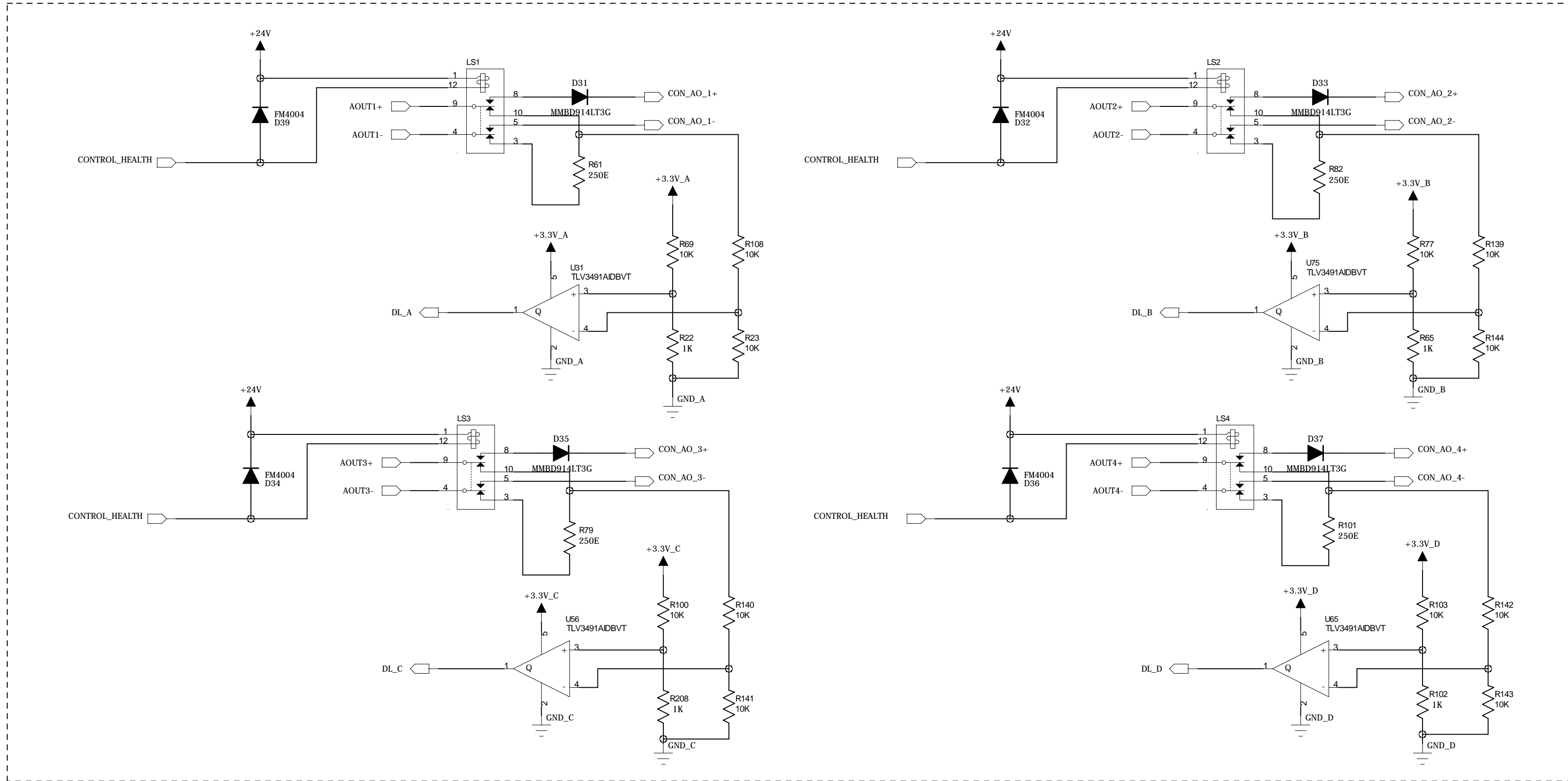
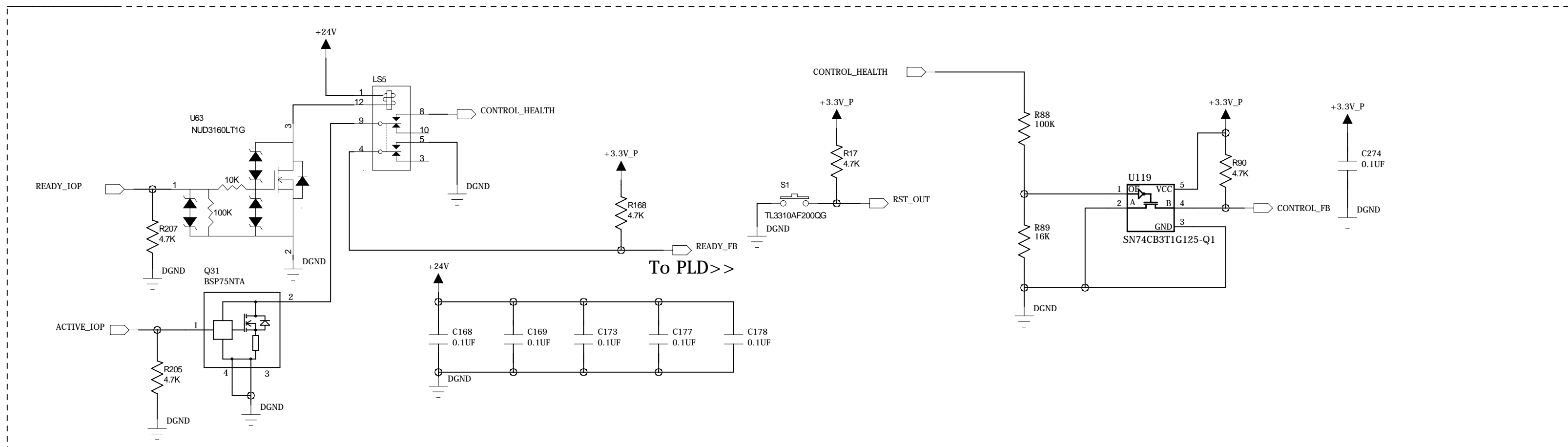
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Muthuvelu.D			C	<Drawing Number>	12 of 23	REV.
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DWG. NO. <Drawing Number> SH 13 REV. REV_A



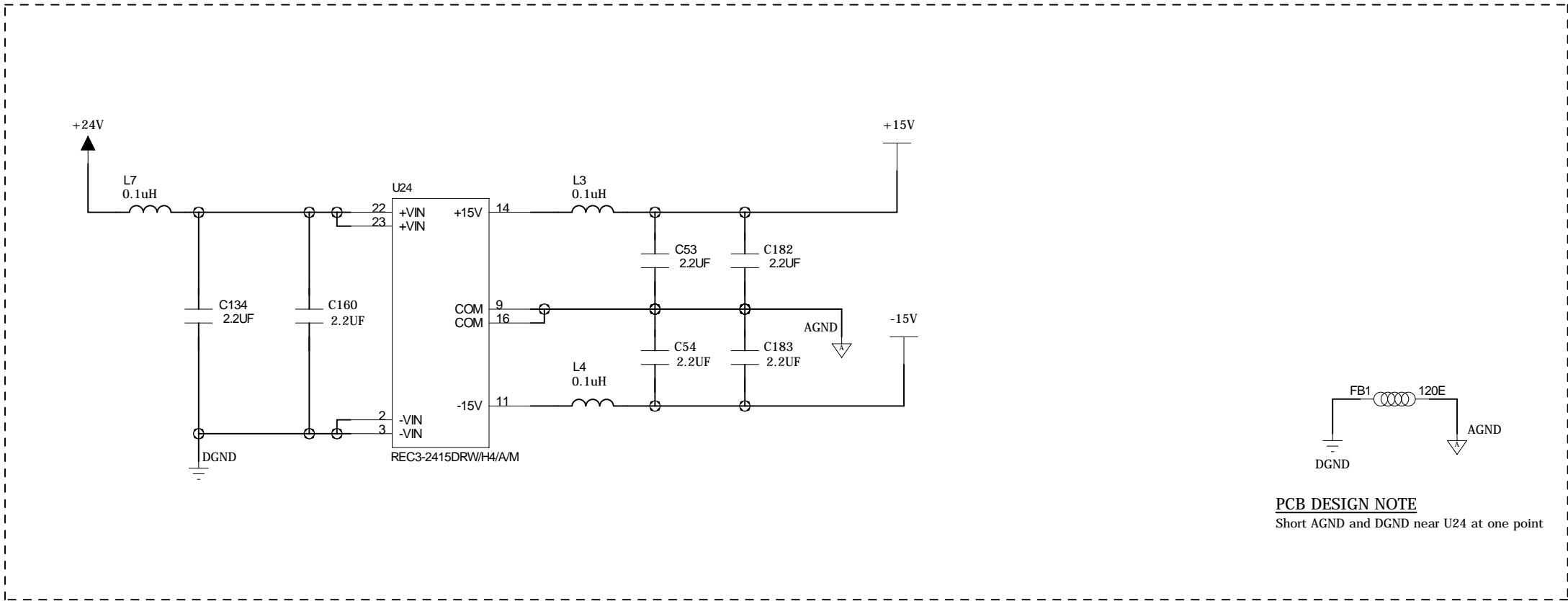
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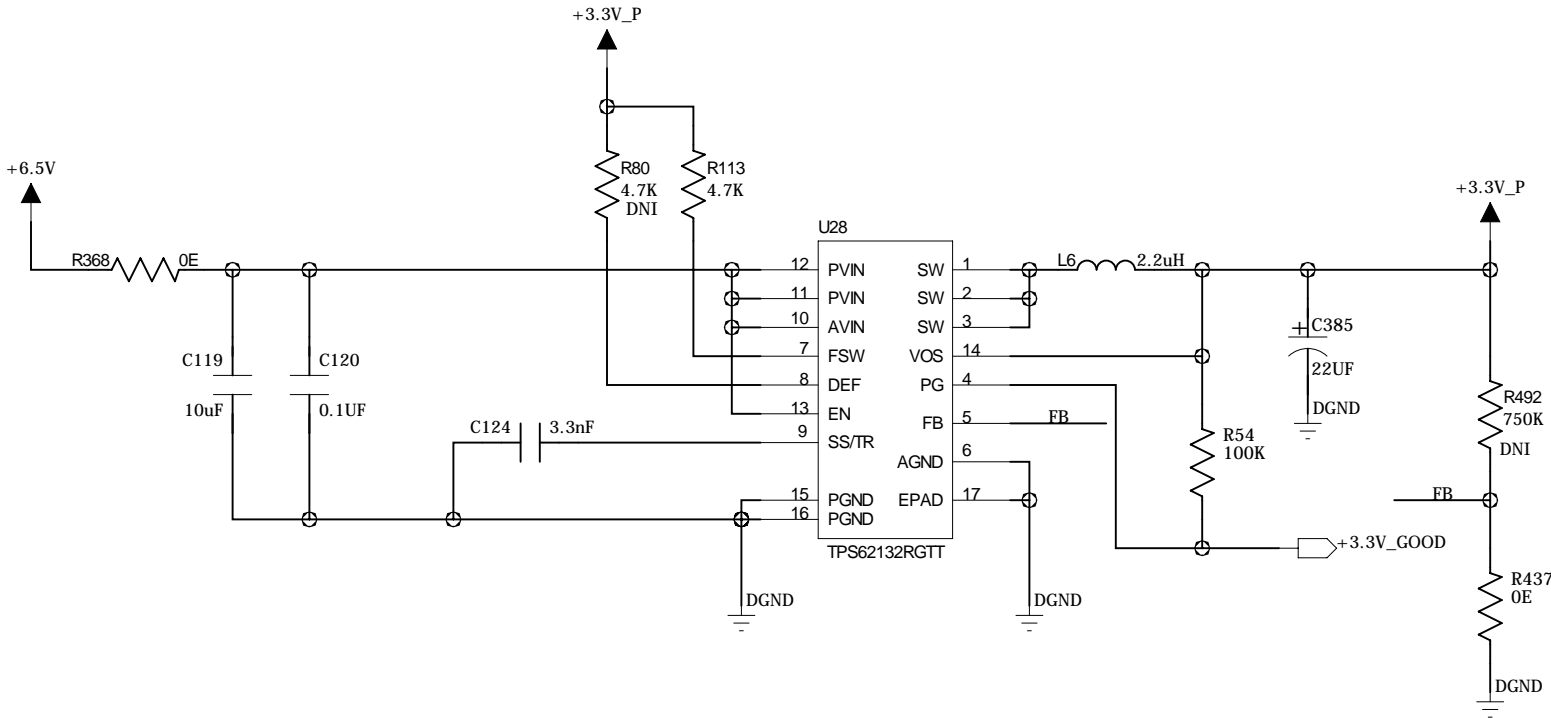
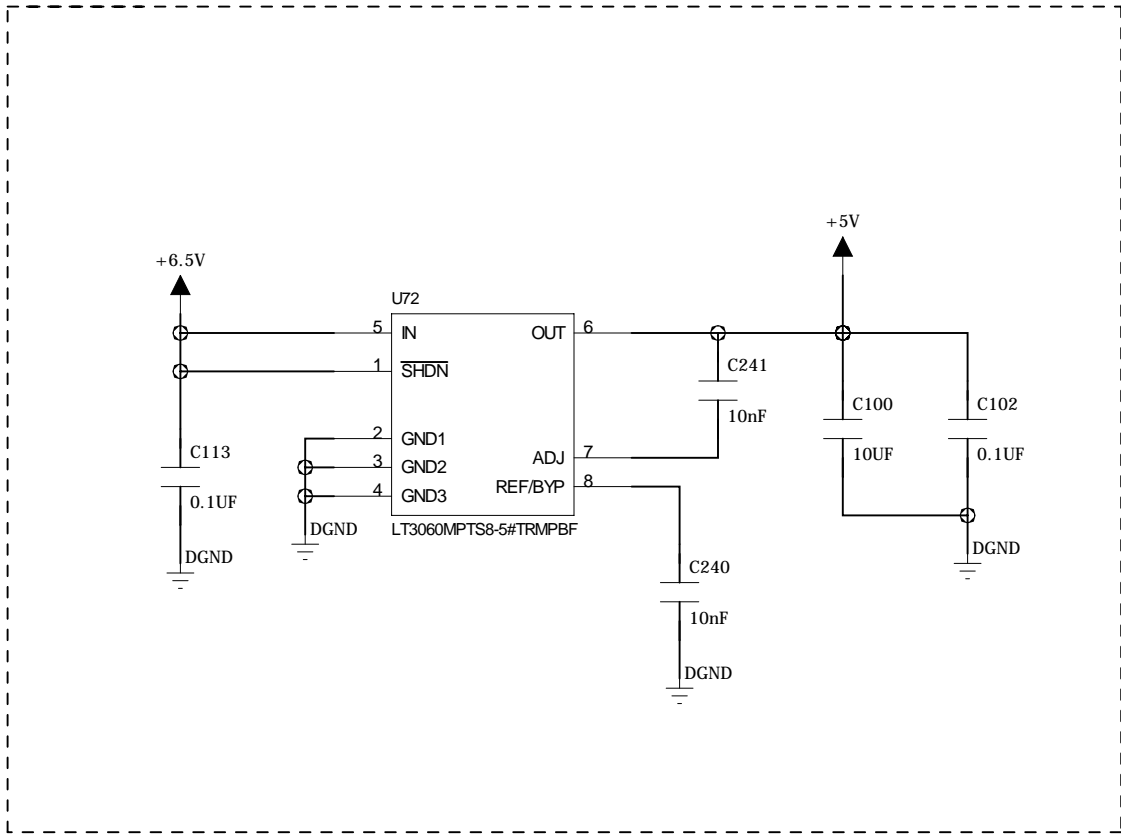
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CHECKED Manju Reddy		14 December 2012					
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DWG. NO. <Drawing Number> SH 15 REV. REV_A



PCB DESIGN NOTE
Short AGND and DGND near U24 at one point



	U28	R492	R437
FIXED REGULATOR	TPS62132	DNI	0E
ADJUSTABLE REGULATOR	TPS62130 or TLV62130	750K	240K

APPROVALS		DATE	COMPRESSOR CONTROLS CORPORATION			
DRAWN		14 December 2012	4725 121st Street - Des Moines, Iowa 50323			
CHECKED		14 December 2012	PAGE15:POWER_SUPPLY			
ENGINEER			SIZE	DWG. NO.	SHEET	PROD
Muthuvelu.D			C	<Drawing Number>	15 of 23	REV.
				FILE	SCALE	REV_A
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DWG. NO. <Drawing Number> SH 16 REV. REV_A

D

C

B

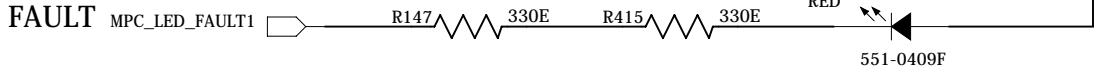
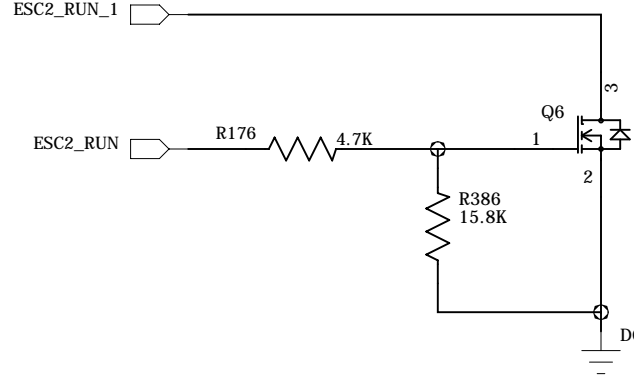
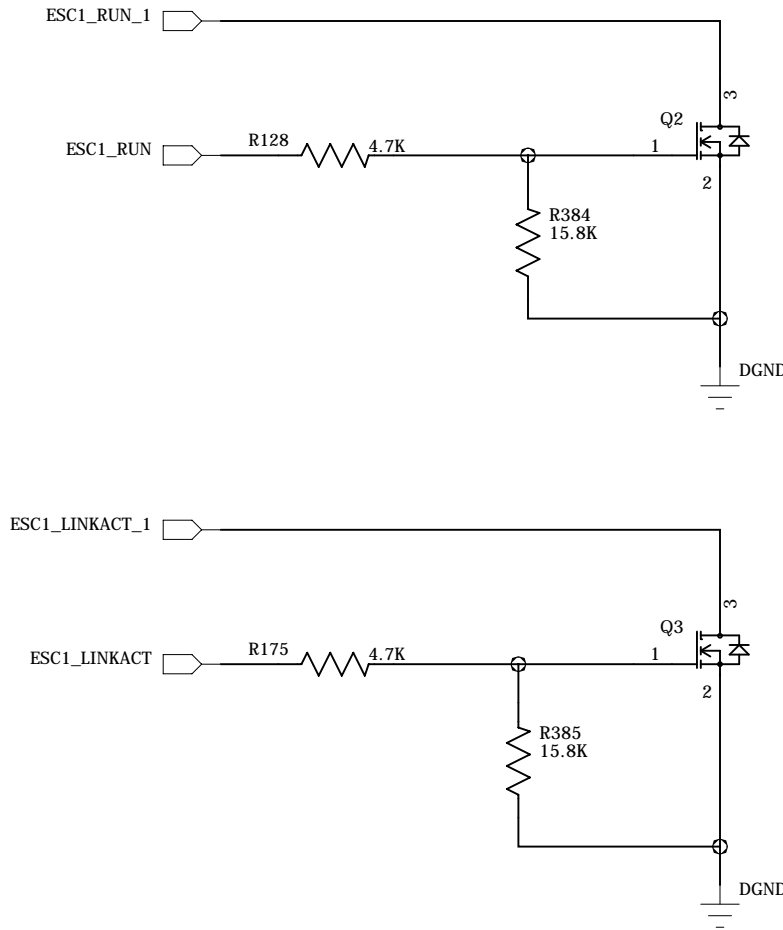
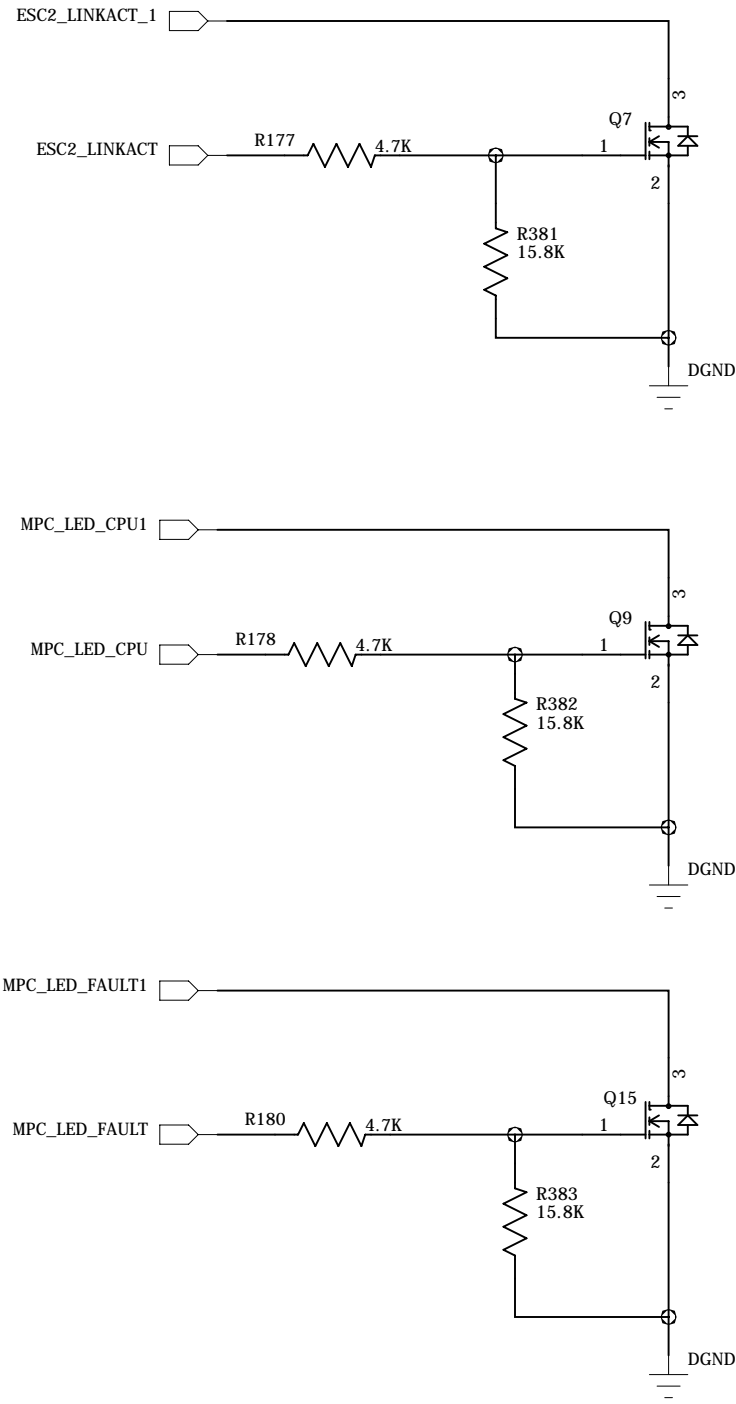
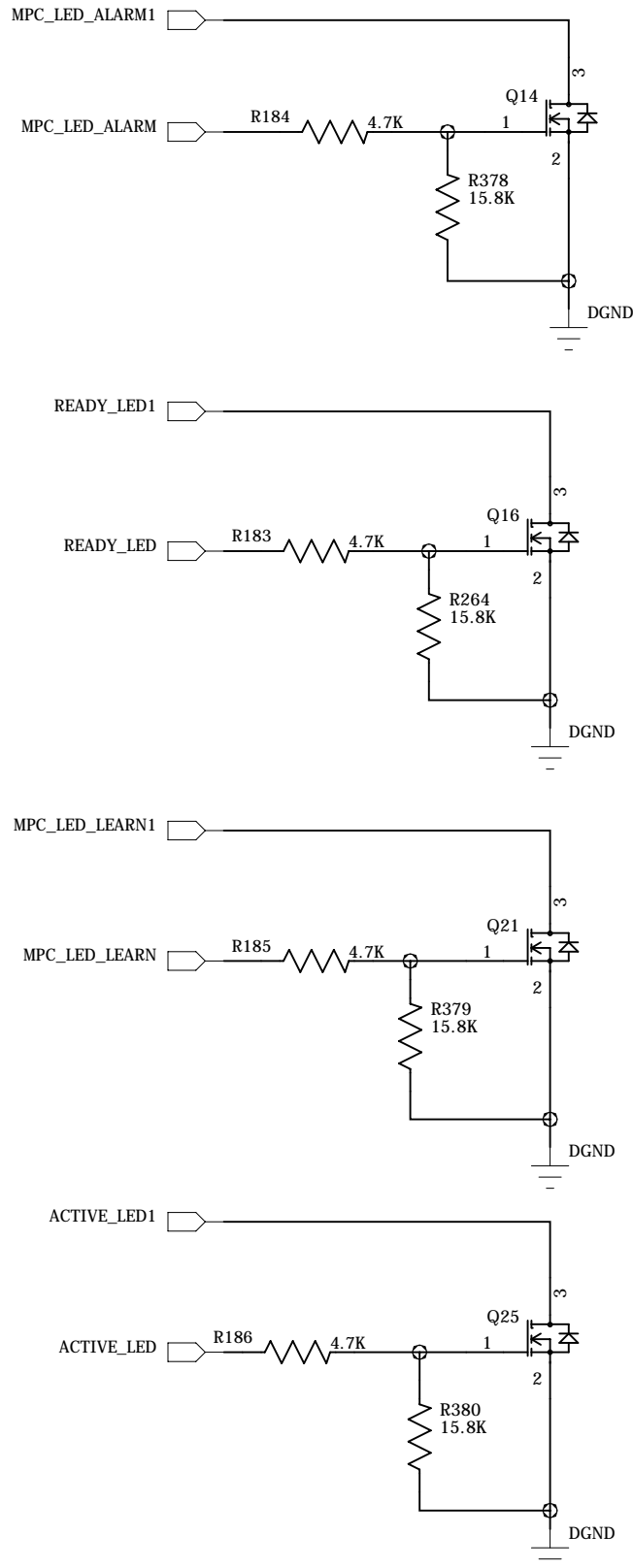
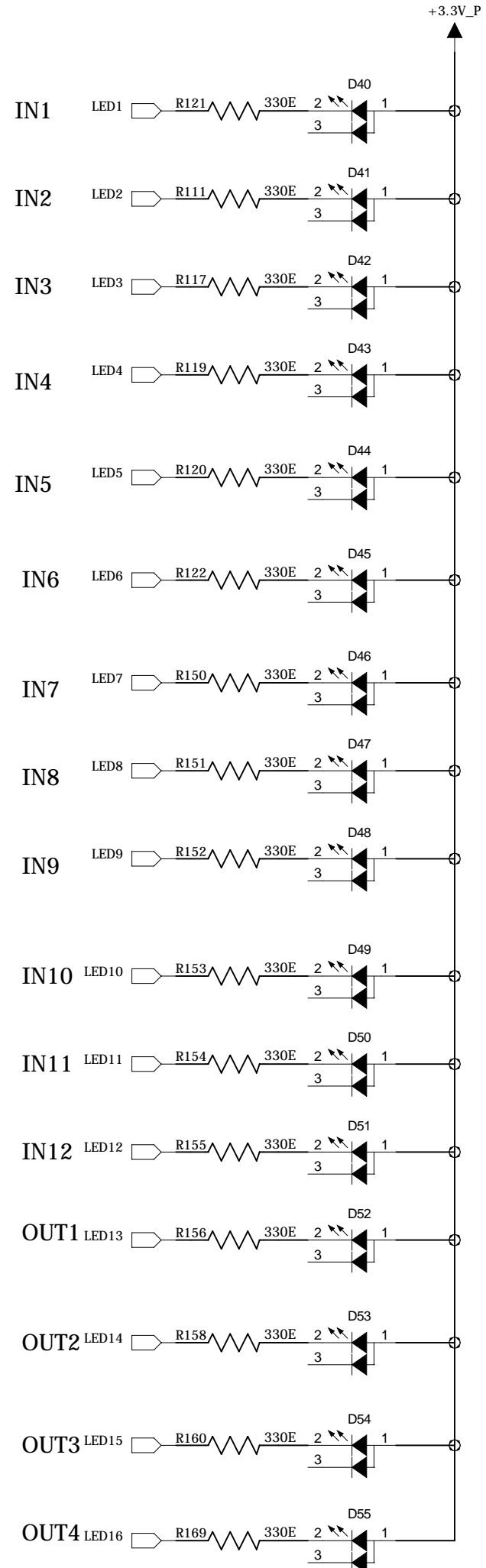
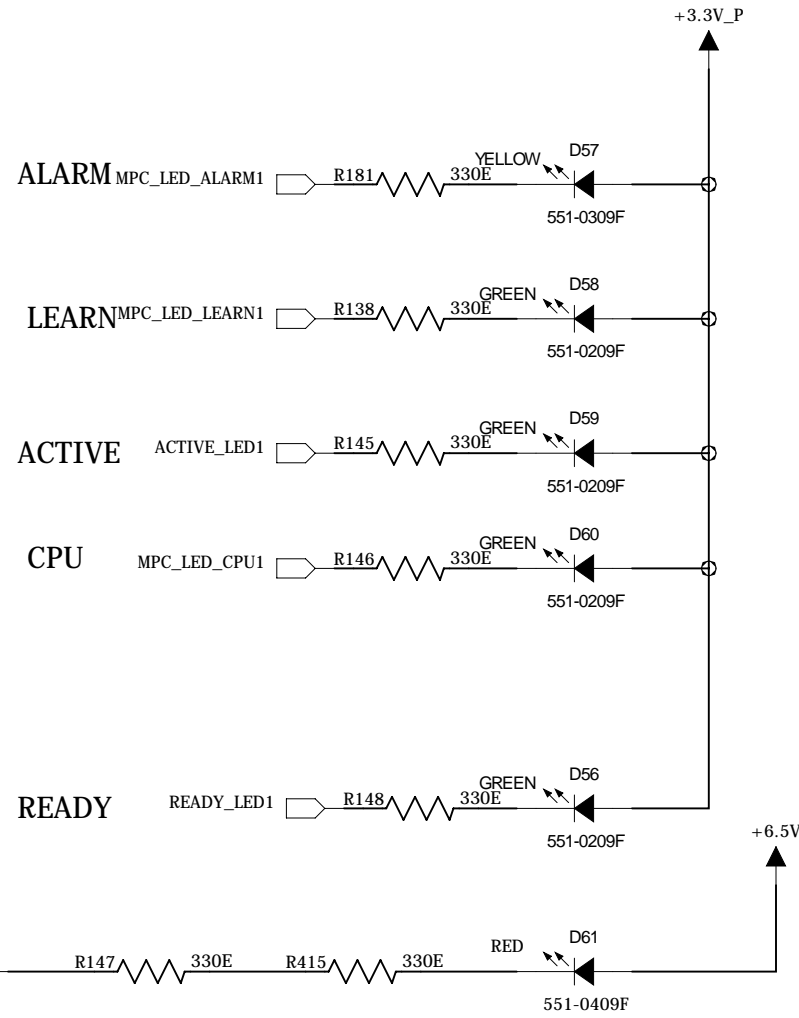
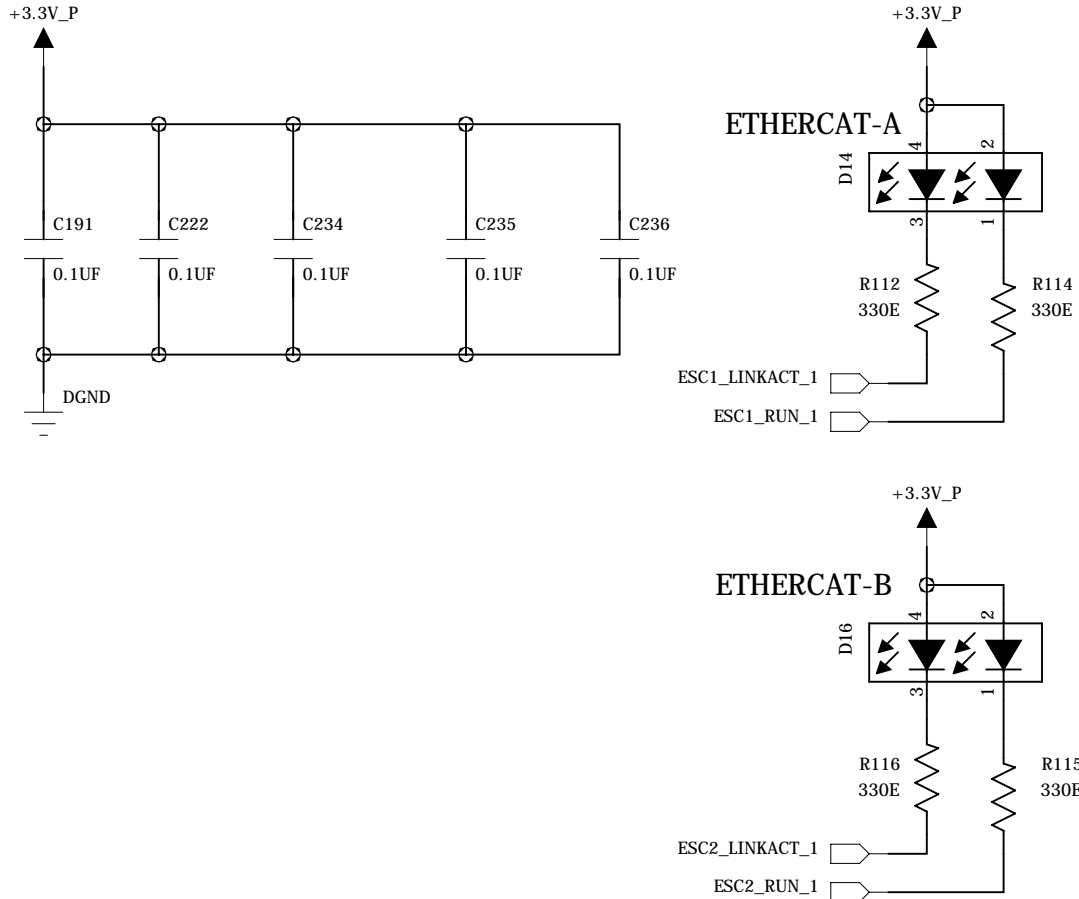
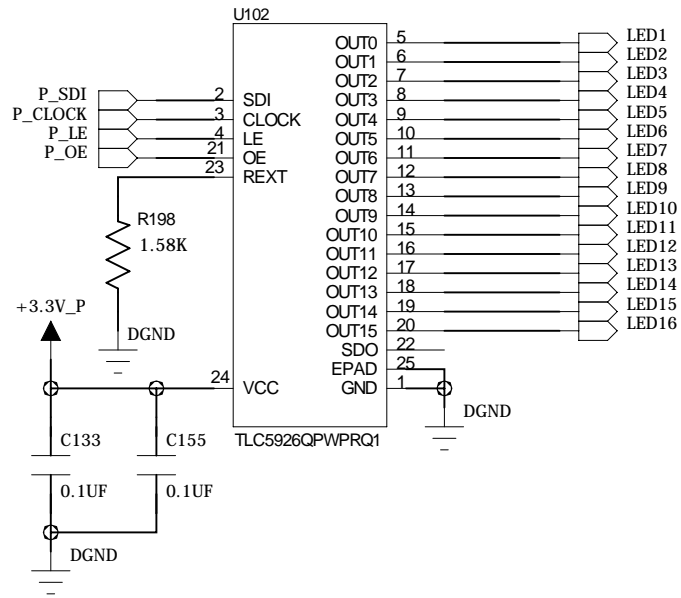
A

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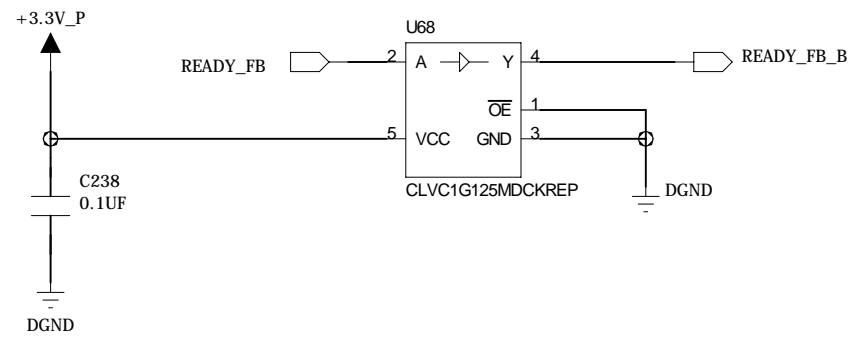
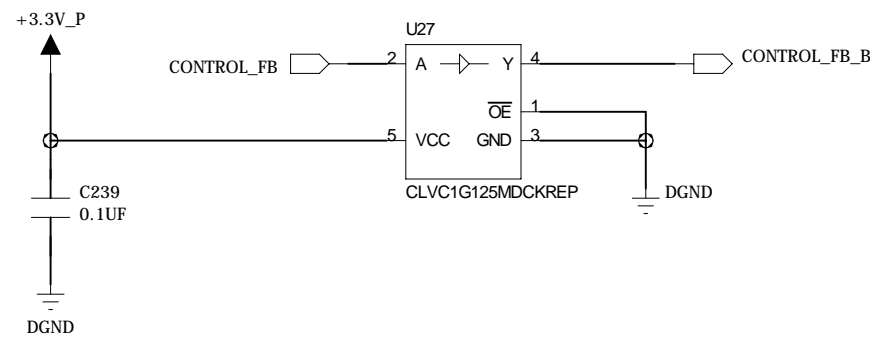


APPROVALS		DATE	COMPRESSOR CONTROLS CORPORATION			
DRAWN Muthuvelu.D		14 December 2012	4725 121st Street - Des Moines, Iowa 50323			
CHECKED Manju Reddy		14 December 2012	PAGE16:INDICATORS			
ENGINEER Muthuvelu.D			SIZE C	DWG. NO. <Drawing Number>	SHEET 16 of 23	PROD REV.
			FILE CCC_IOP-AM1_REVA.sch	SCALE <Scale>		REV. REV_A

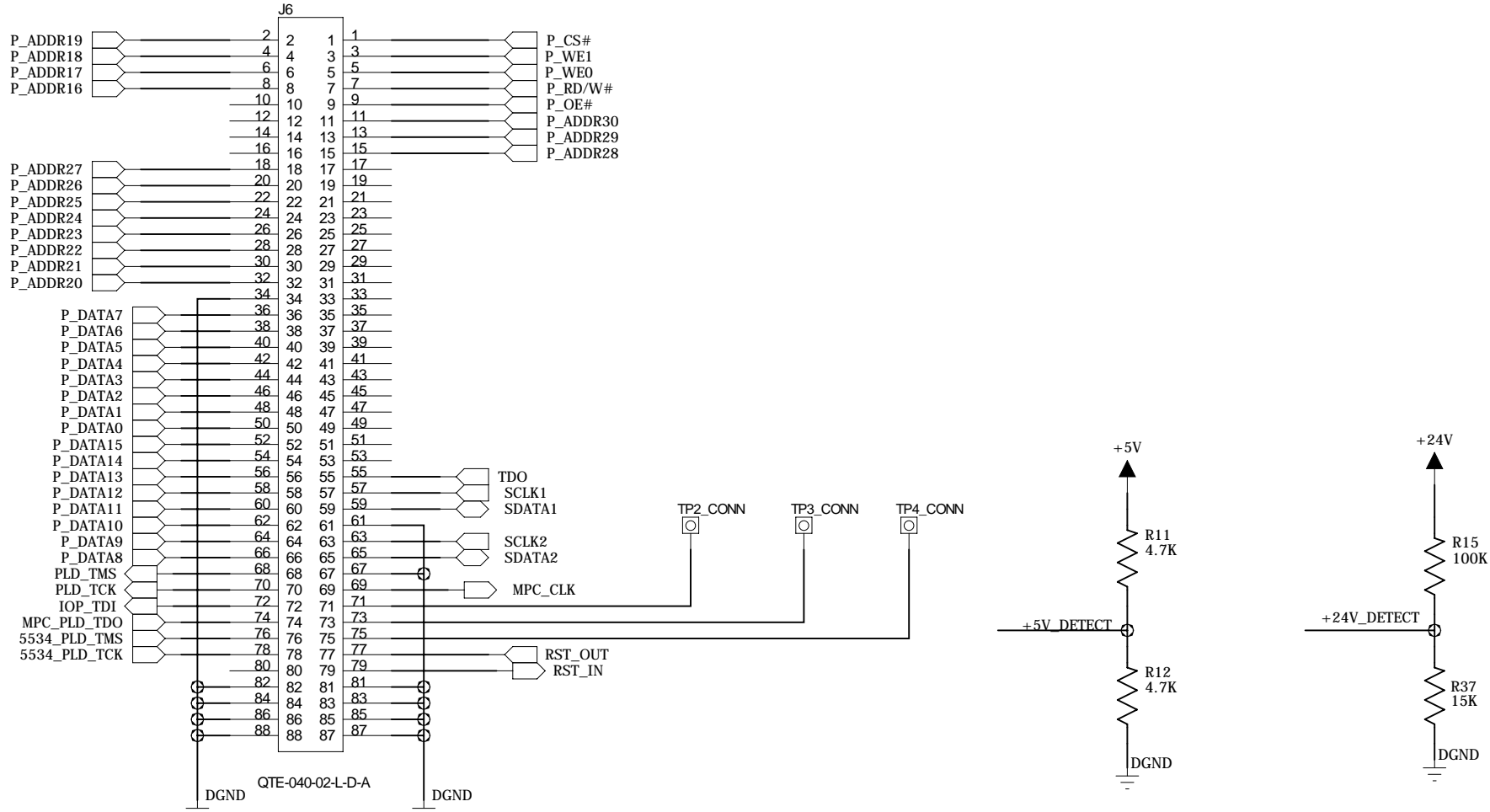
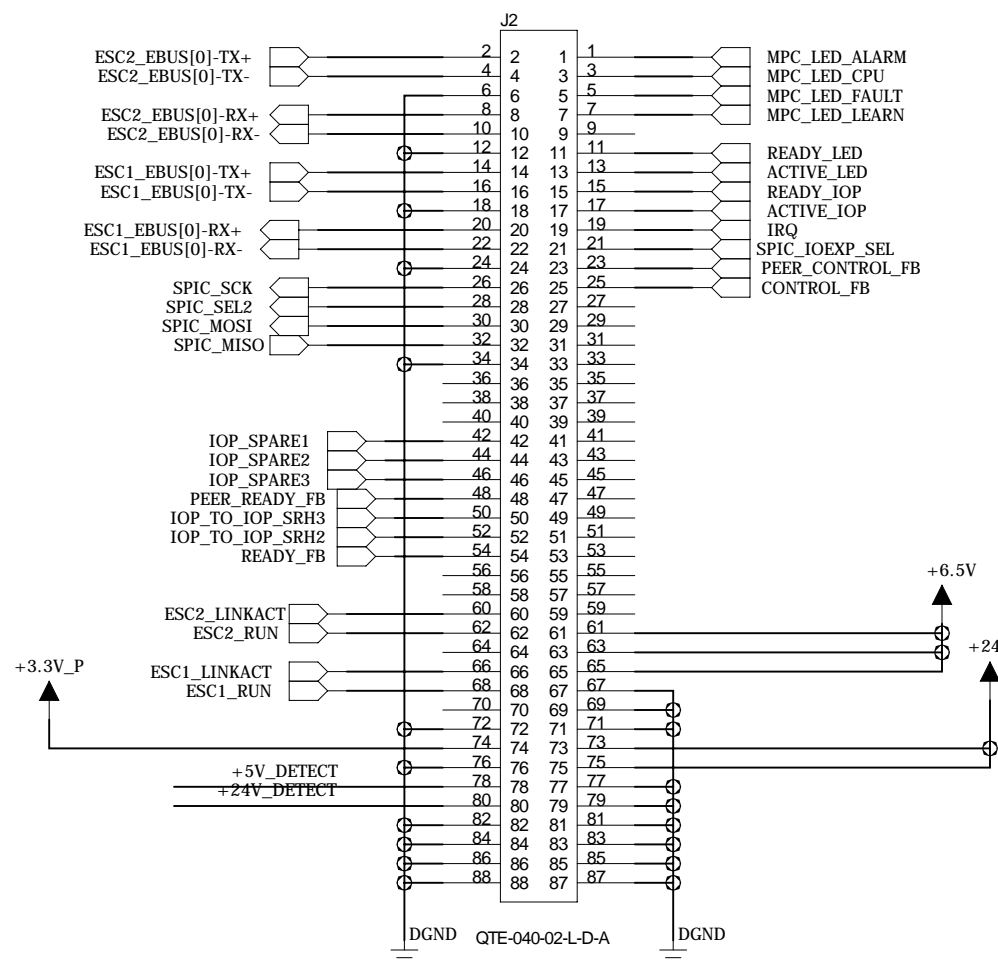
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DWG. NO.
<Drawing Number>

SH
17
REV.
REV_A



PROCESSOR INTERFACE

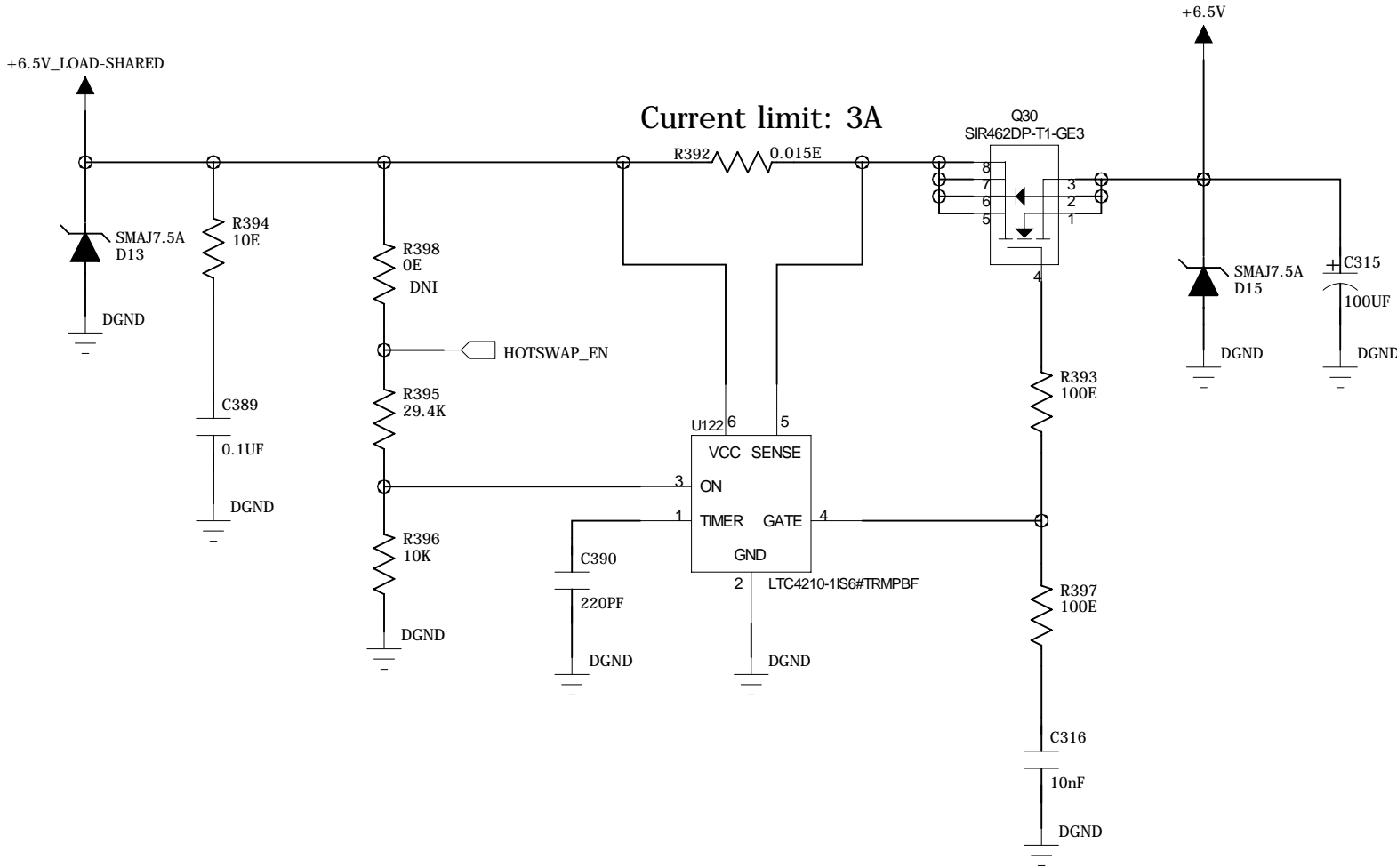
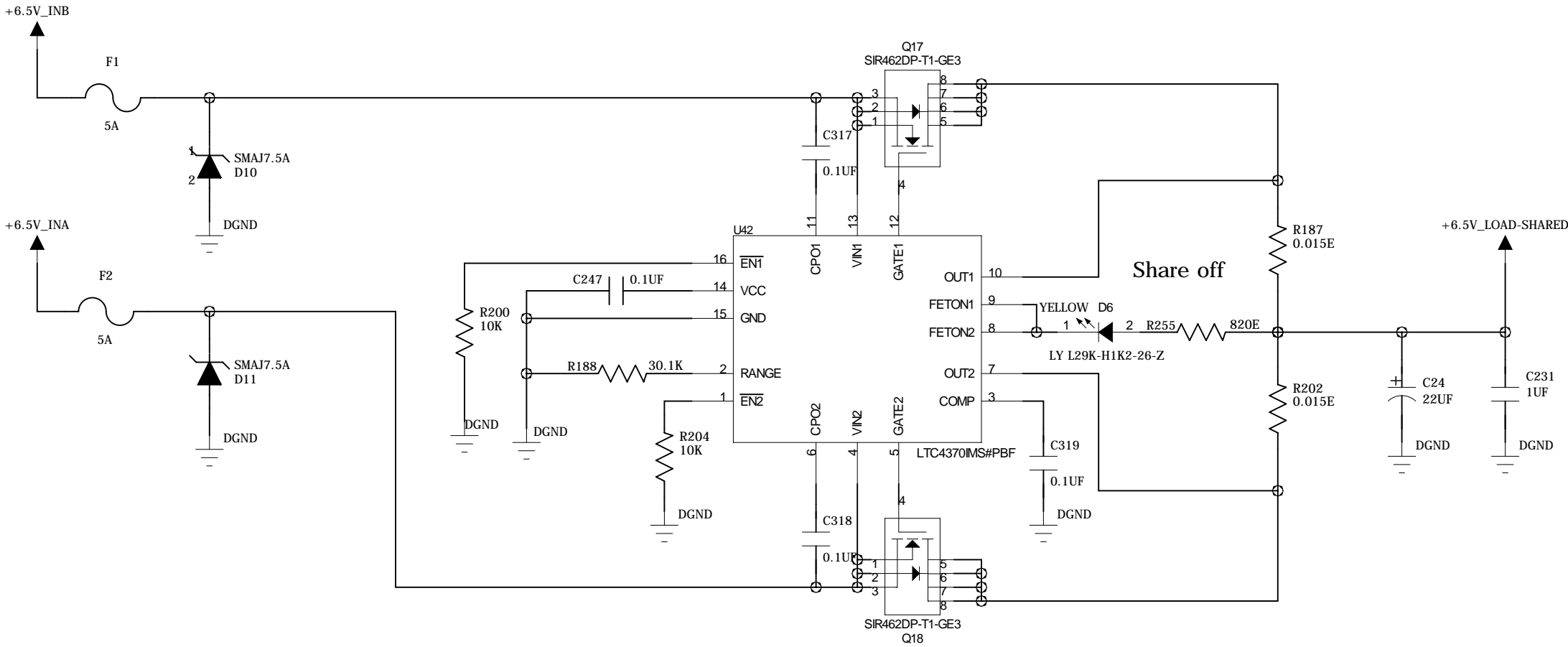


APPROVALS		DATE	COMPRESSOR CONTROLS CORPORATION			
DRAWN		14 December 2012	4725 121st Street - Des Moines, Iowa 50323			
CHECKED		14 December 2012	PAGE17:CONNECTORS			
ENGINEER			SIZE C	DWG. NO. <Drawing Number>	SHEET 17 of 23	PROD REV.
			FILE CCC_IOP-AM1_REVA.sch	SCALE <Scale>		REV. REV_A

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DWG. NO. <Drawing Number> SH 18 REV. REV_A

HOTSWAP AND LOAD SHARING



APPROVALS		DATE	COMPRESSOR CONTROLS CORPORATION			
DRAWN		14 December 2012	4725 121st Street - Des Moines, Iowa 50323			
CHECKED		14 December 2012	6.5V-LOAD_SHARING-HOTSWAP			
ENGINEER			SIZE	DWG. NO.	SHEET	PROD
Muthuvelu.D			C	<Drawing Number>	18 of 23	REV.
				FILE	SCALE	REV_A
				CCC_IOP-AM1_REVA.sch	<Scale>	

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DWG. NO. <Drawing Number> SH 19 REV. REV_A

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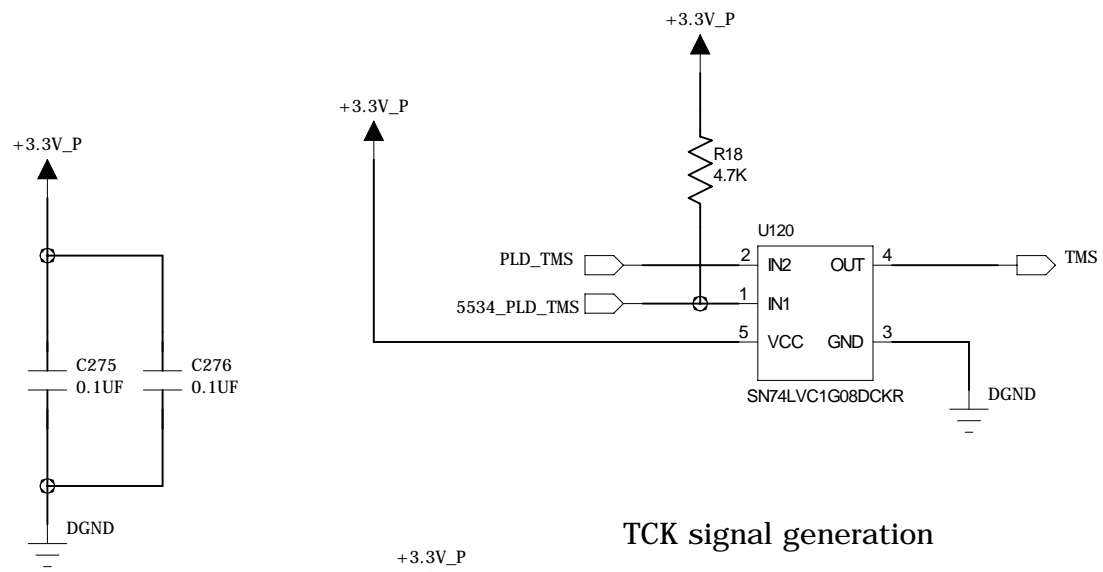
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C

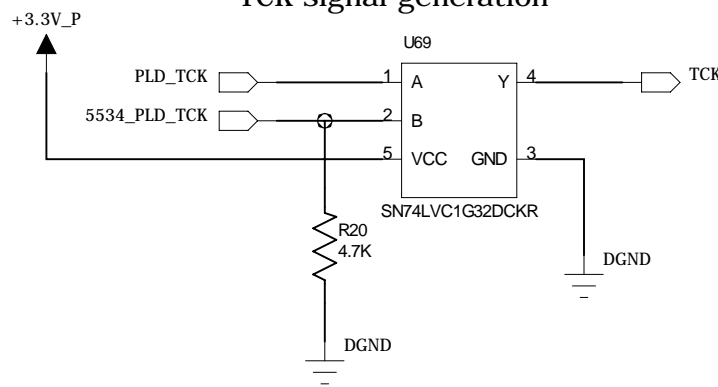
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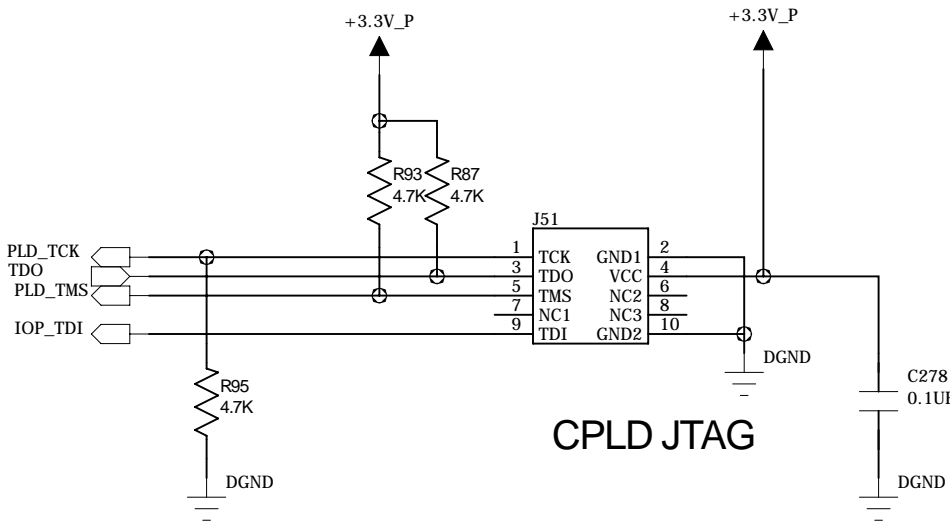
TMS signal generation



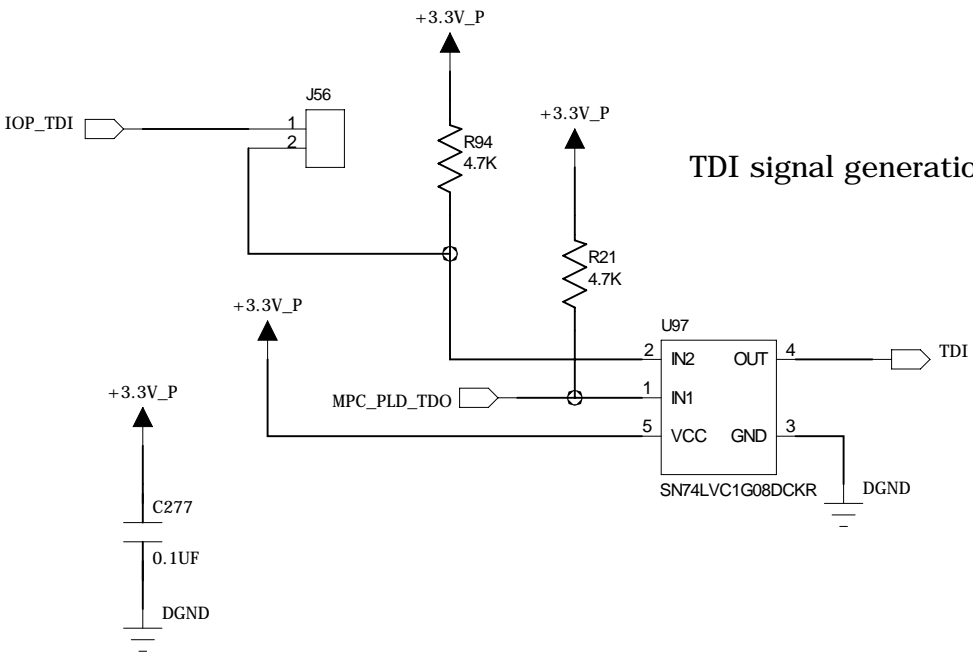
TCK signal generation



CPLD JTAG



TDI signal generation



APPROVALS		DATE	COMPRESSOR CONTROLS CORPORATION			
DRAWN		14 December 2012	4725 121st Street - Des Moines, Iowa 50323			
CHECKED		14 December 2012	PAGE19:JTAG			
ENGINEER			SIZE	DWG. NO.	SHEET	PROD
Muthuvelu.D			C	<Drawing Number>	19 of 23	REV.
				FILE	SCALE	REV_A
				CCC_IOP-AM1_REVA.sch	<Scale>	

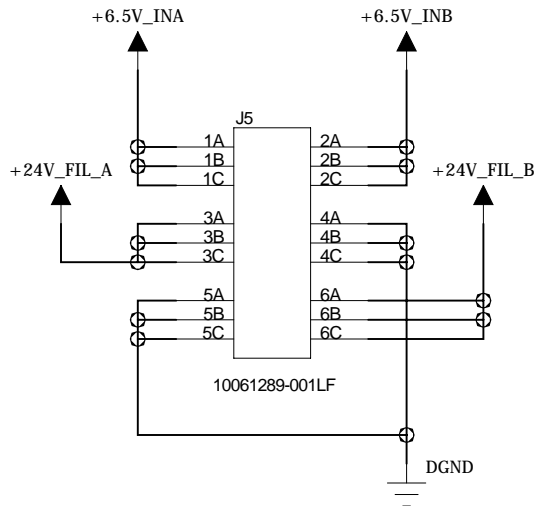
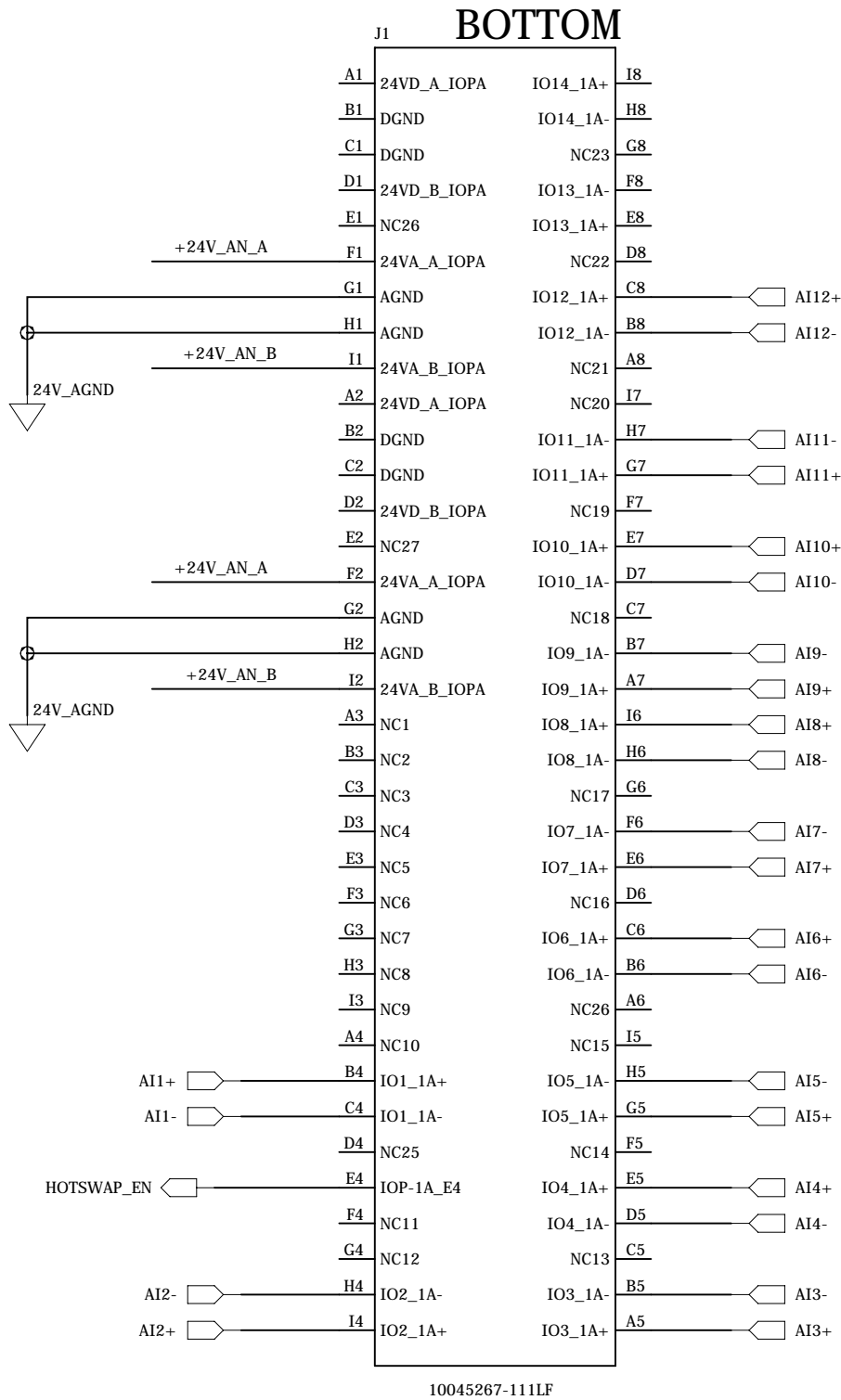
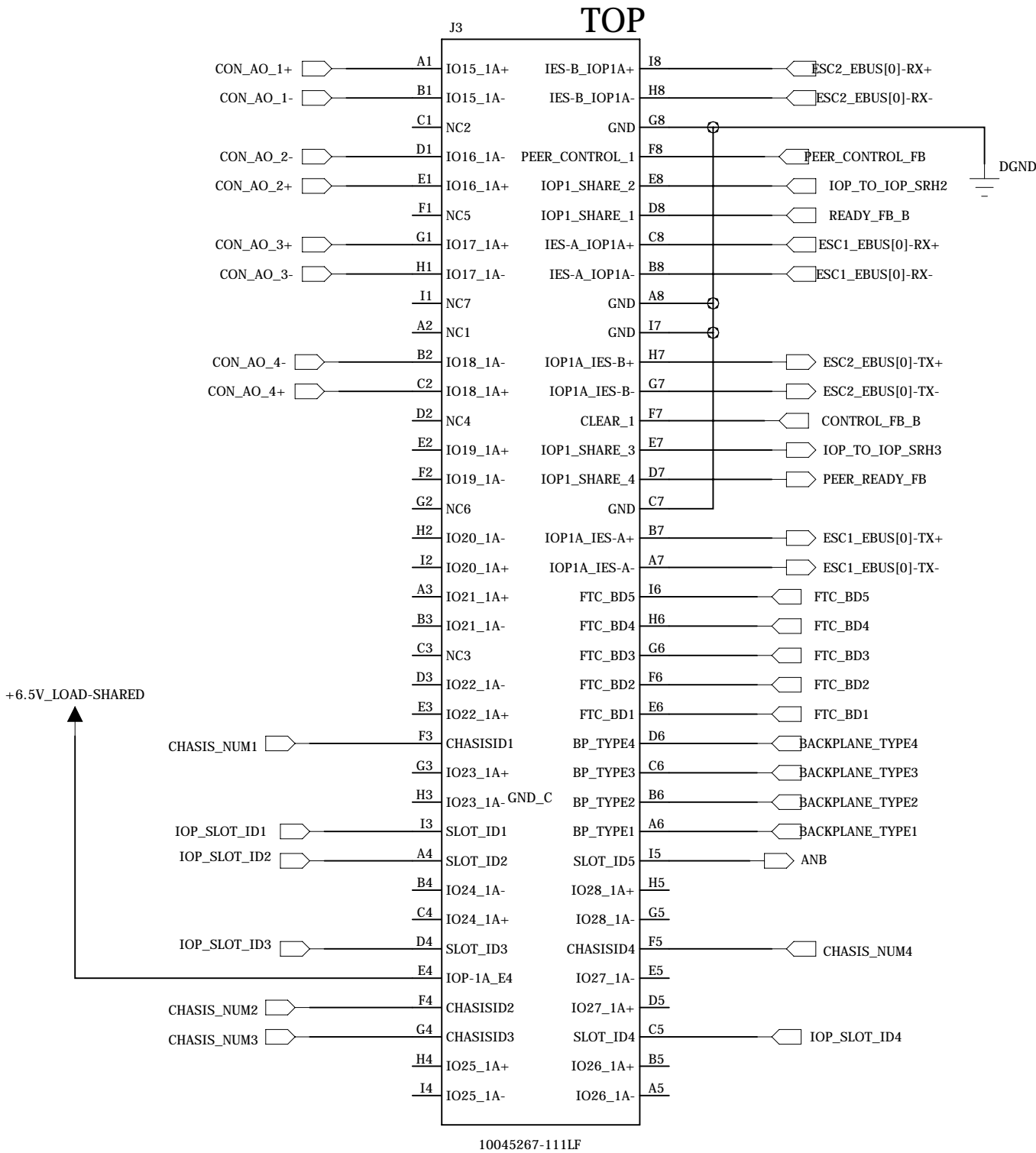
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DWG. NO.
<Drawing Number>

SH
20

REV.
REV_A

BACK PANEL TERMINATION



APPROVALS		DATE	COMPRESSOR CONTROLS CORPORATION			
DRAWN Muthuvelu.D		14 December 2012	4725 121st Street - Des Moines, Iowa 50323			
CHECKED Manju Reddy		14 December 2012	CONNECTORS-BACKPLANE			
ENGINEER Muthuvelu.D			SIZE C	DWG. NO. <Drawing Number>	SHEET 20 of 23	PROD REV. REV_A
			FILE CCC_IOP-AM1_REVA.sch	SCALE <Scale>		

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DWG. NO.

<Drawing Number>

SH

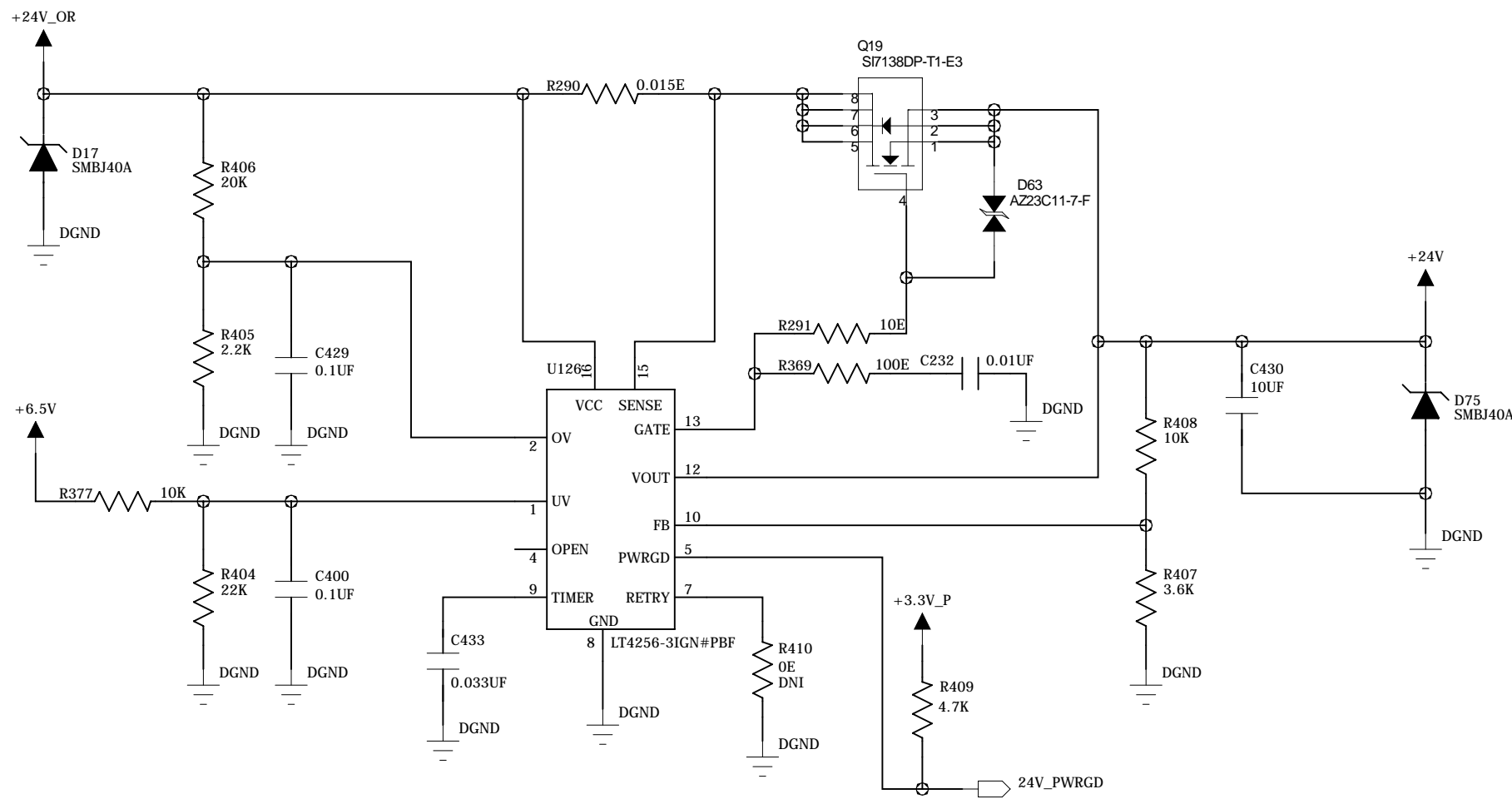
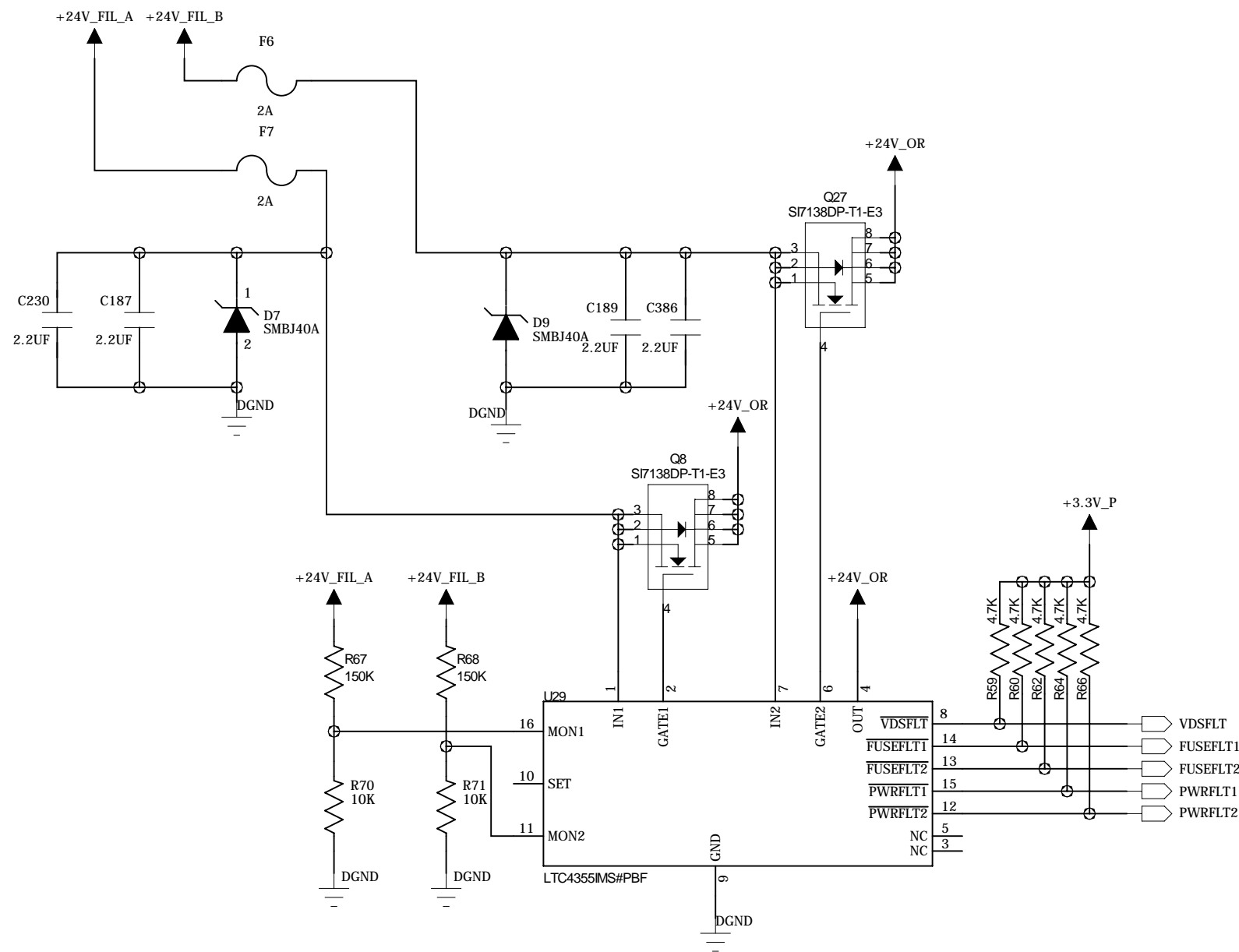
Z1

REV.

REV_A

HOTSWAP AND ORING

HOT SWAP CONTROLLER



APPROVALS		DATE	COMPRESSOR CONTROLS CORPORATION			
DRAWN		14 December 2012	4725 121st Street - Des Moines, Iowa 50323			
CHECKED		14 December 2012	24V-ORING-HOTSWAP			
ENGINEER			SIZE	DWG. NO.	SHEET	PROD
Muthuvelu.D			C	<Drawing Number>	21 of 23	REV.
				FILE	SCALE	REV_A
				CCC_IOP-AM1_REVA.sch	<Scale>	

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DWG. NO. <Drawing Number> SH Z2 REV. REV_A

1

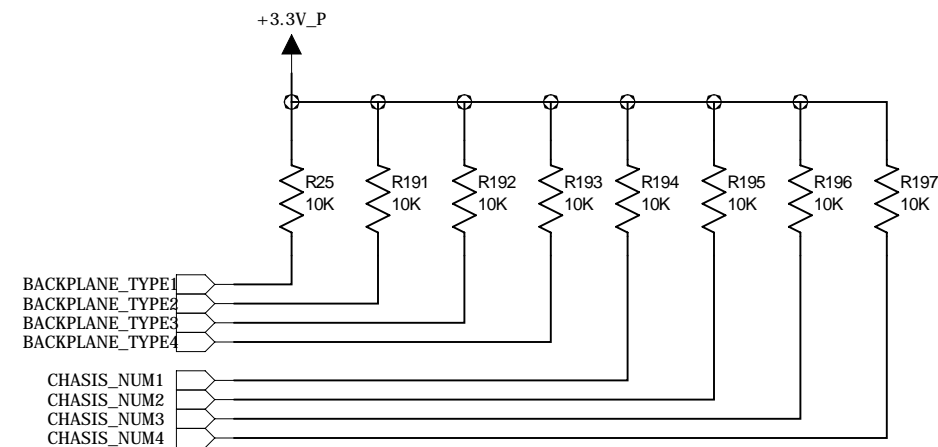
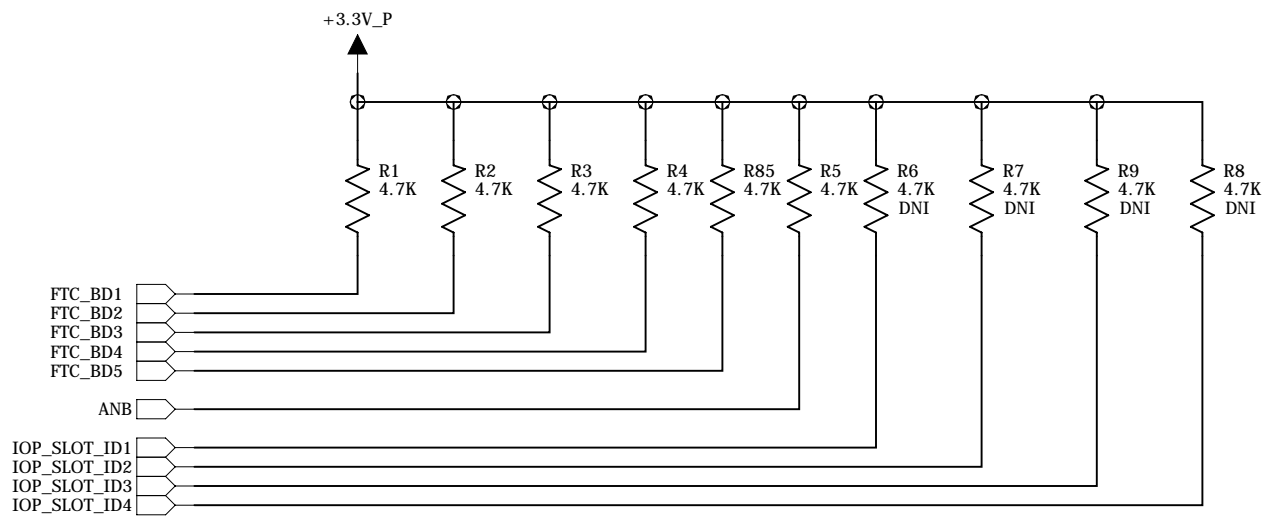
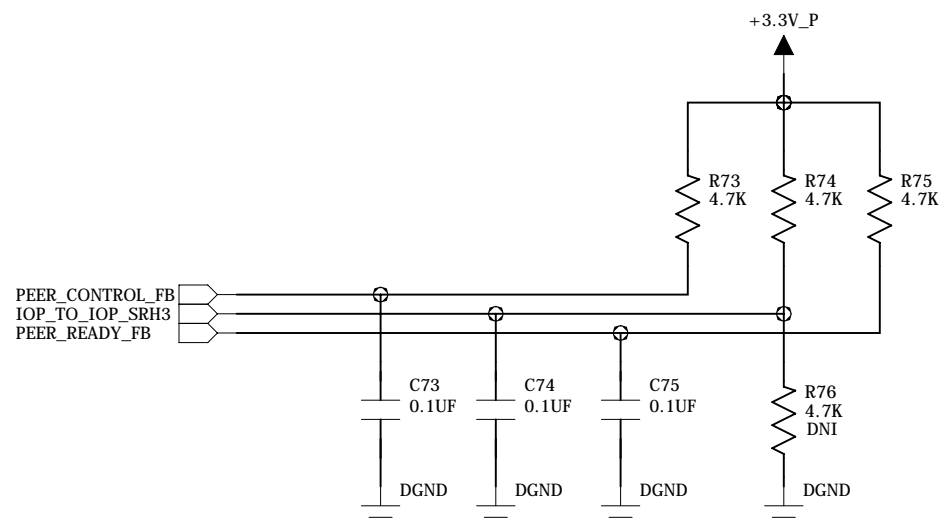
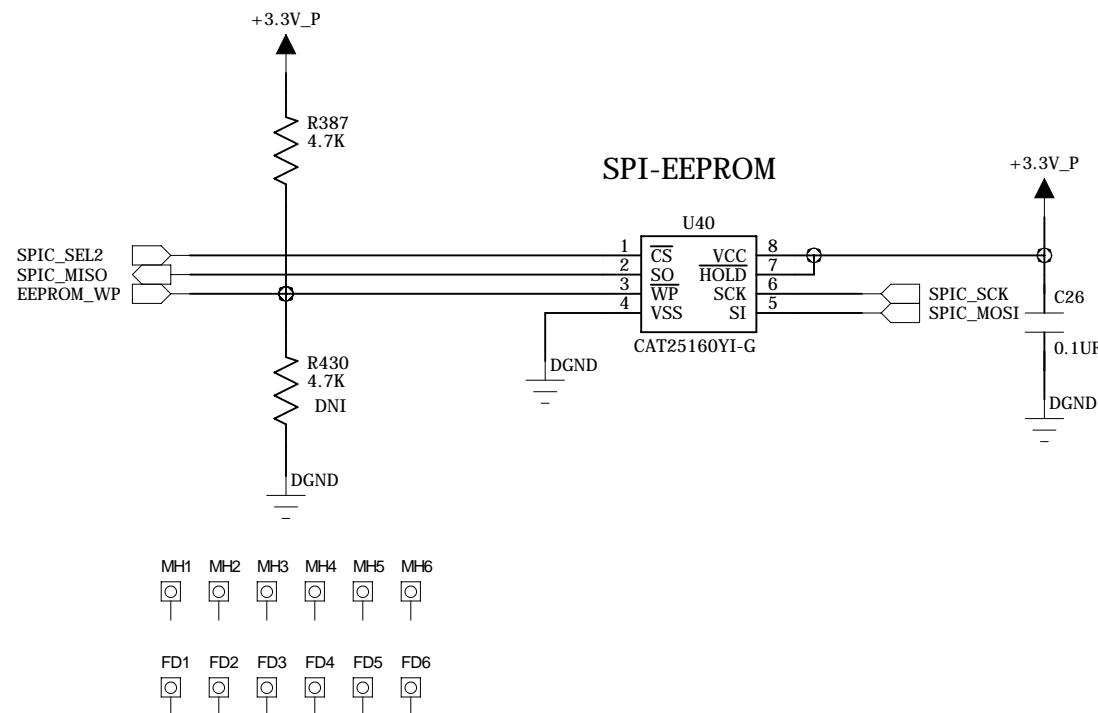
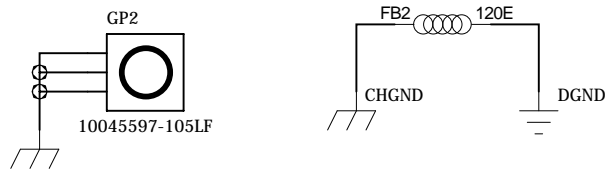
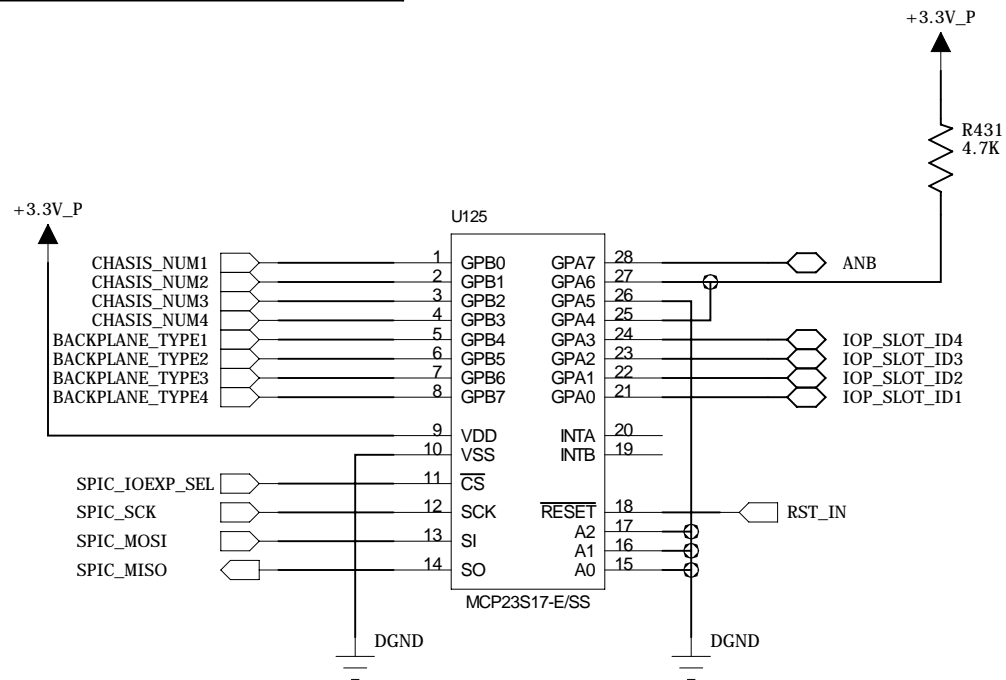
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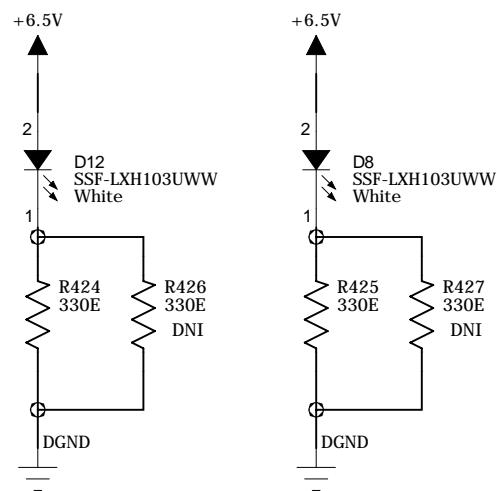
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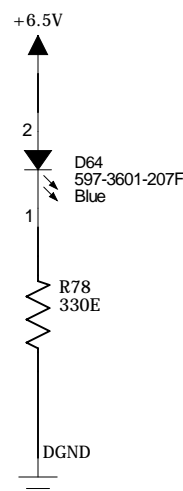
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WHITE LED



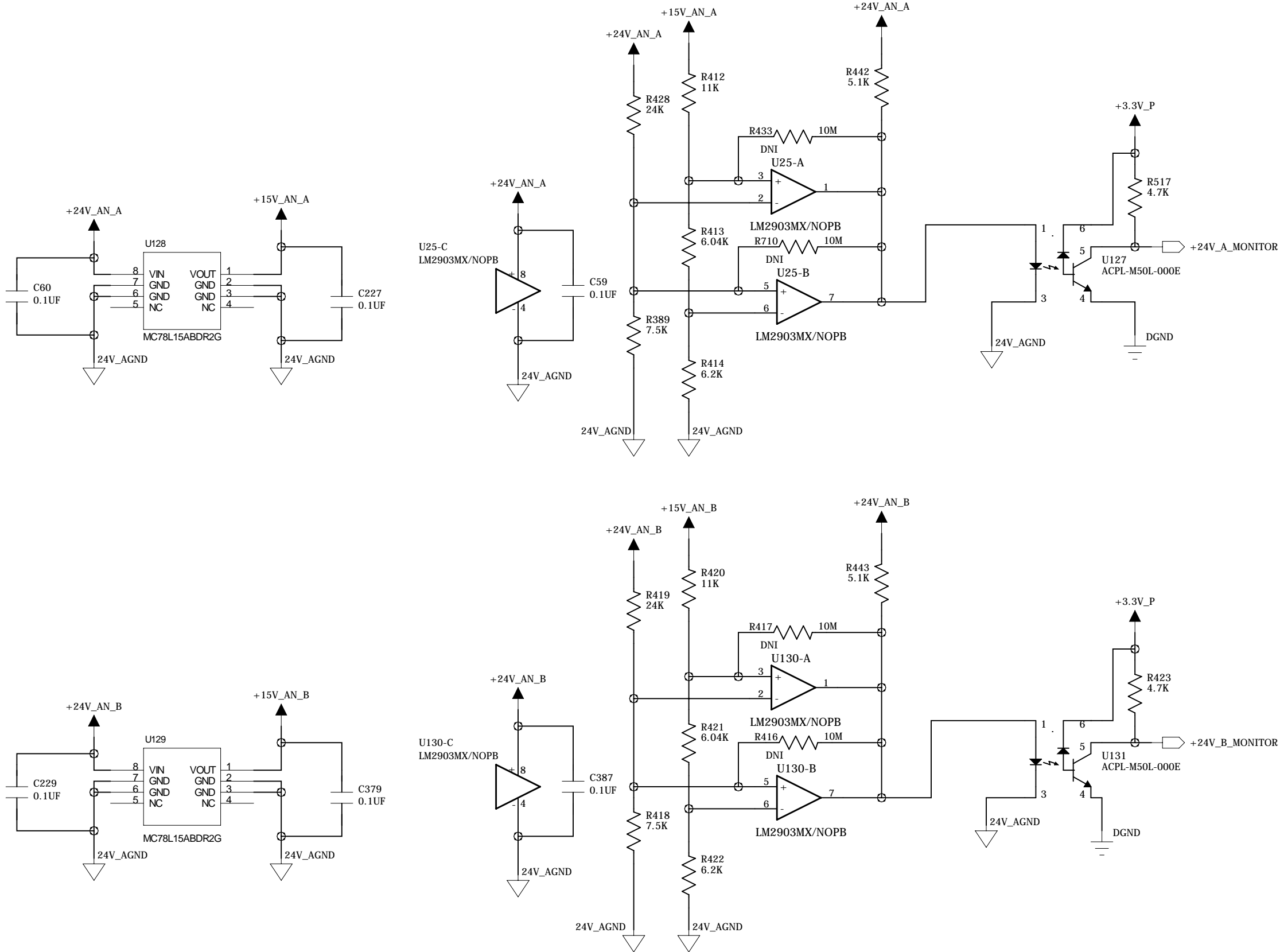
CCC LOGO LED



APPROVALS		DATE	COMPRESSOR CONTROLS CORPORATION			
DRAWN		14 December 2012	4725 121st Street - Des Moines, Iowa 50323			
CHECKED		14 December 2012	EEPROM			
ENGINEER			SIZE	DWG. NO.	SHEET	PROD
Muthuvelu.D			C	<Drawing Number>	22 of 23	REV.
				FILE	SCALE	REV_A
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DWG. NO. <Drawing Number> SH 23 REV. REV_A



APPROVALS		DATE	COMPRESSOR CONTROLS CORPORATION			
DRAWN		14 December 2012	4725 121st Street - Des Moines, Iowa 50323			
CHECKED		14 December 2012	24V_MONITORING			
ENGINEER			SIZE	DWG. NO.	SHEET	PROD
Muthuvelu.D			C	<Drawing Number>	23 of 23	REV.
			FILE	CCC_IOP-AM1_REVA.sch	SCALE	REV_A