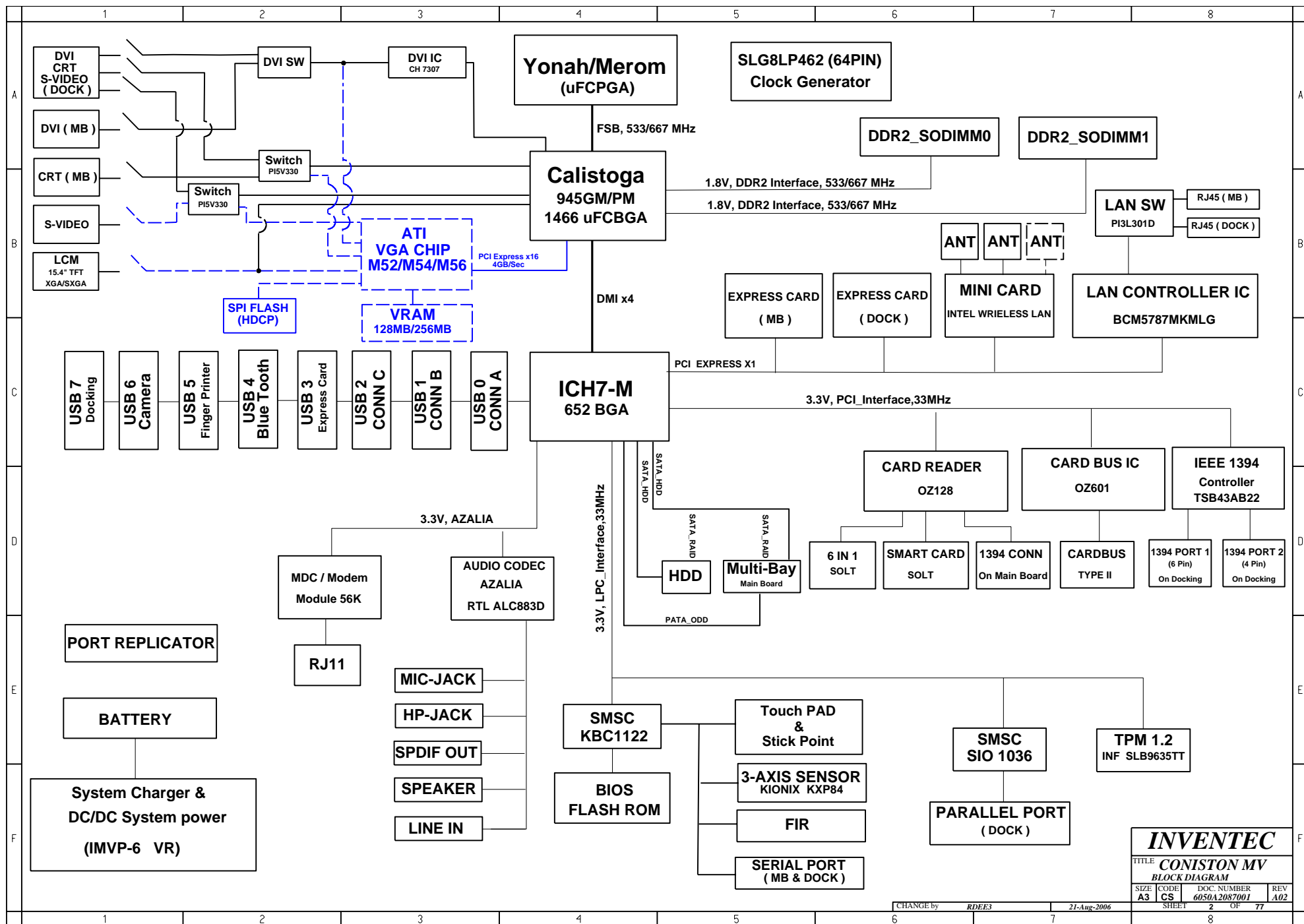


# CONISTON 1.0

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2	SYSTEM BLOCK DIAGRAM	28	ATI M52P/M54P/M56P #2	54	THERMAL SENSOR & FAN
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4	DC & BATTERY CHANGER	30	ATI M52P/M54P/M56P #4	56	1394 CONNECTOR
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10	SYSTEM POWER	36	CRT CONNECTOR	62	AUDIO CODEC
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12	SYSTEM POWER	38	TV-OUT SWITCH	64	USB CONNECTOR
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25	DDR II CONNECTOR (DIMM II)	51	RJ45 CONNECTOR	77	MULTIBAY ODD BOARD
26	DDR II DECOUPLING	52	KBC CONTROLLER		

DATE	CHANGE NO.	REV
1		2

DRAWER	EE	DATE	POWER	DATE	<b>INVENTEC</b> TITLE <b>CONISTON MV</b>
DESIGN					
CHECK					
RESPONSIBLE					
SIZE	3	VER :			SIZE <b>A3</b> CODE <b>CS</b> DOC. NUMBER <b>6050A2087001</b> REV <b>A02</b>
FILE NAME :	XXXX-XXXXXX-XX				
P/N	XXXXXXXXXXXX				SHEET 1 OF 77



**INVENTEC**

TITLE **CONISTON MV**  
BLOCK DIAGRAM

SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02
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CHANGE by **RDEE3** 21-Aug-2006

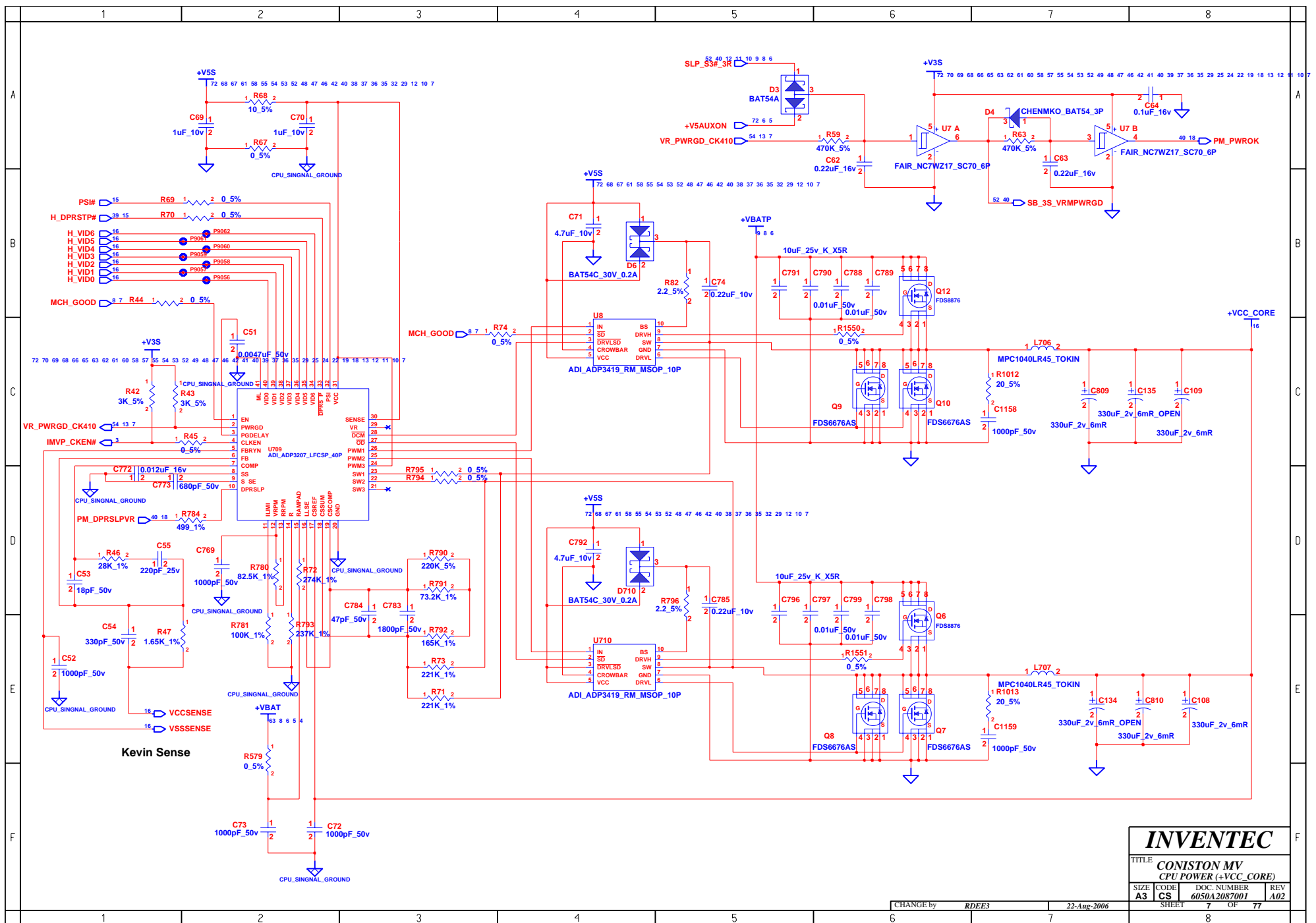
SHEET 2 OF 77

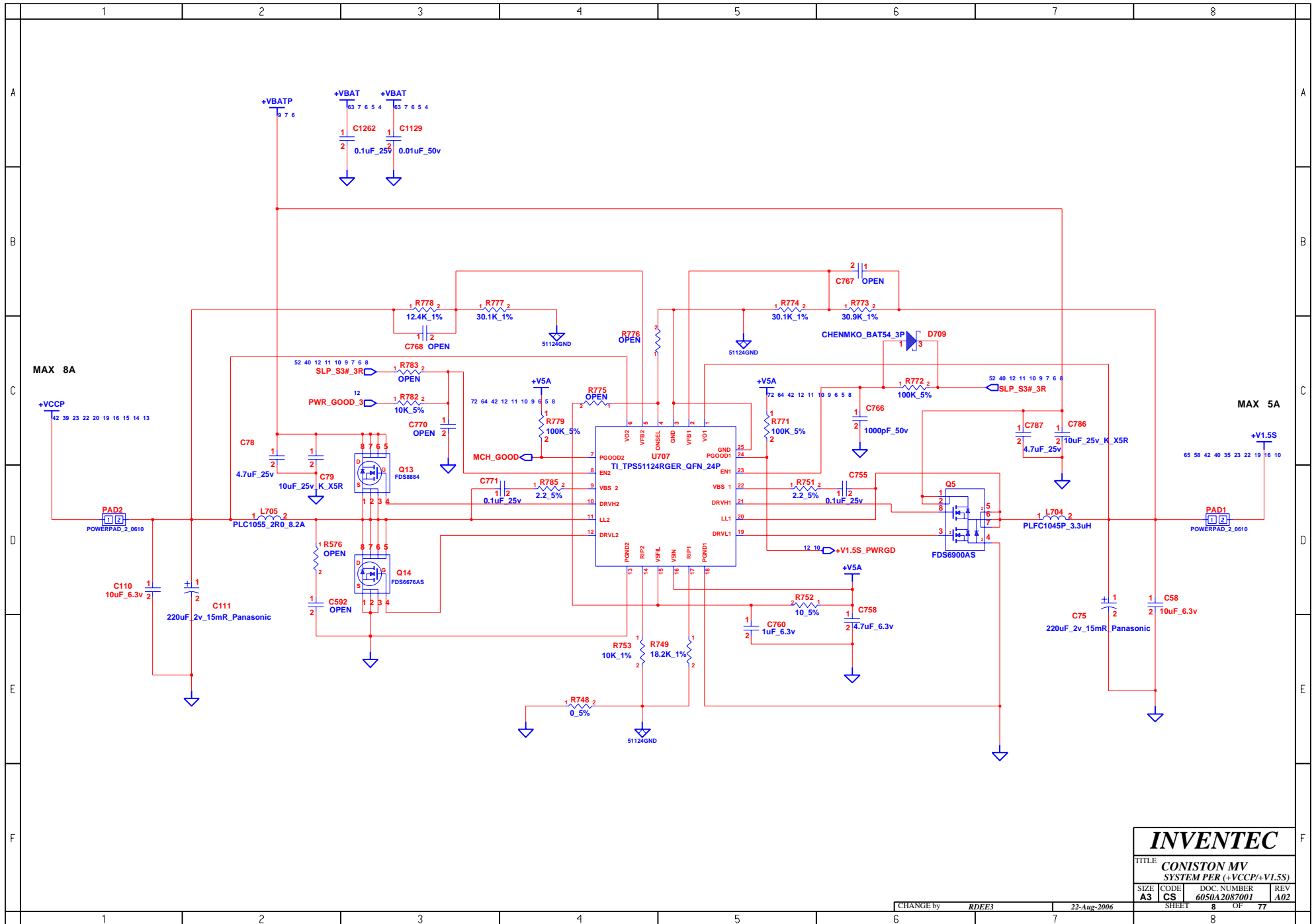




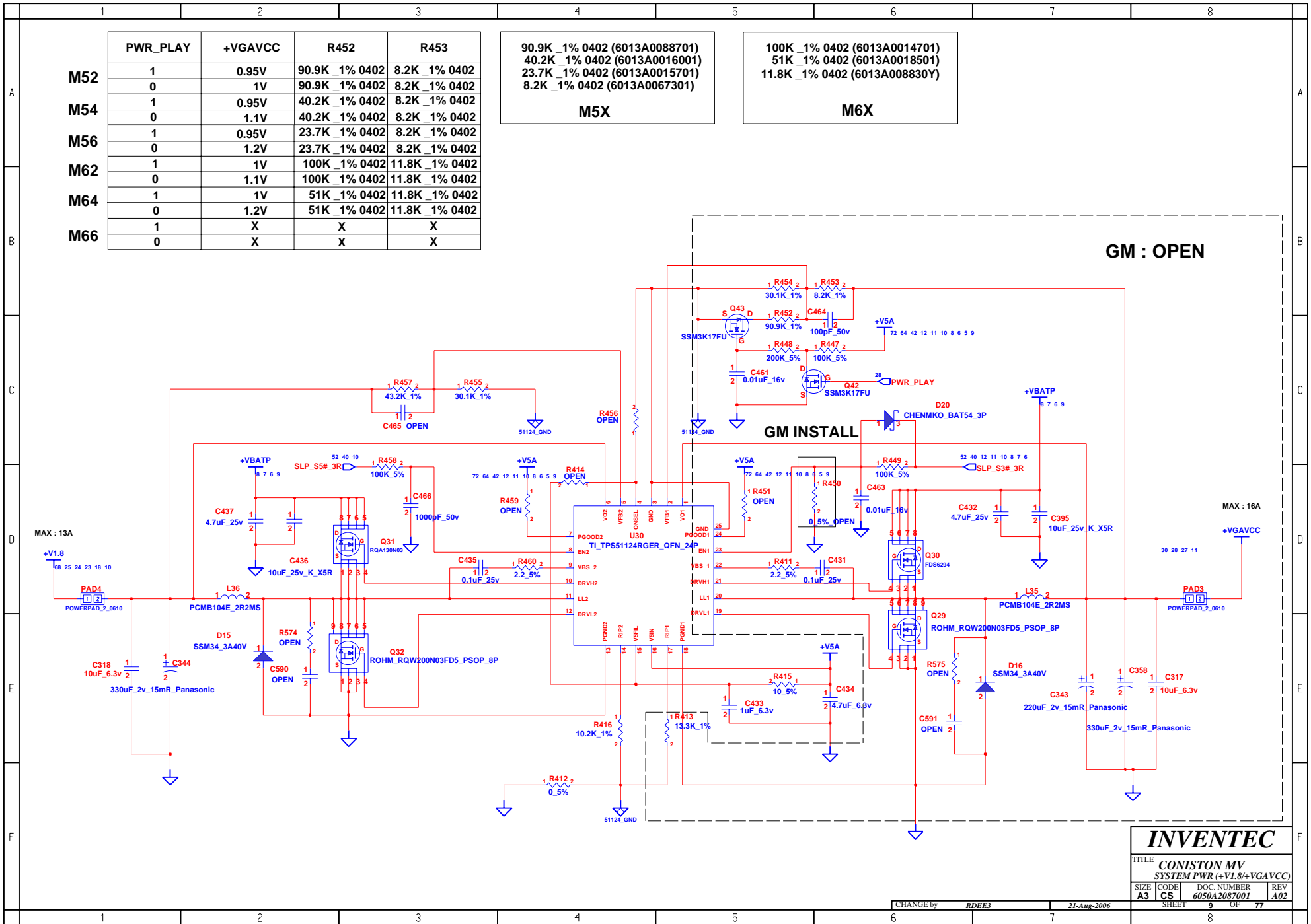


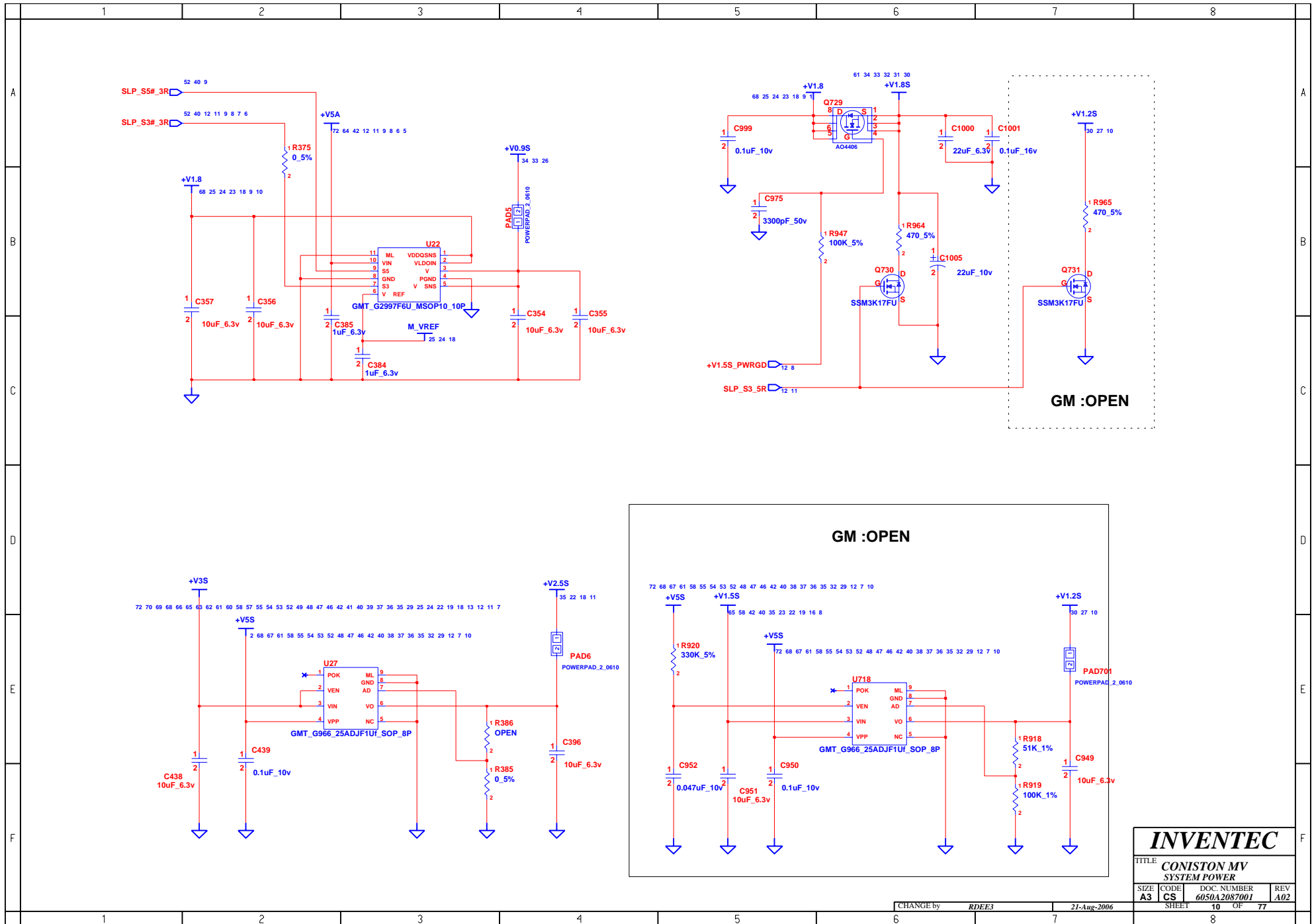




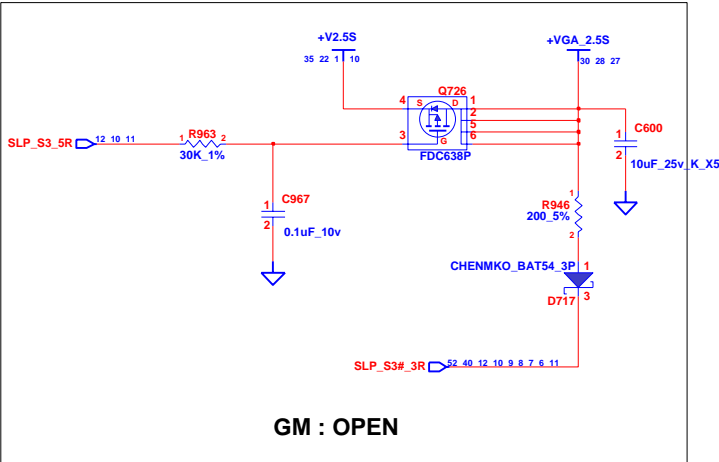
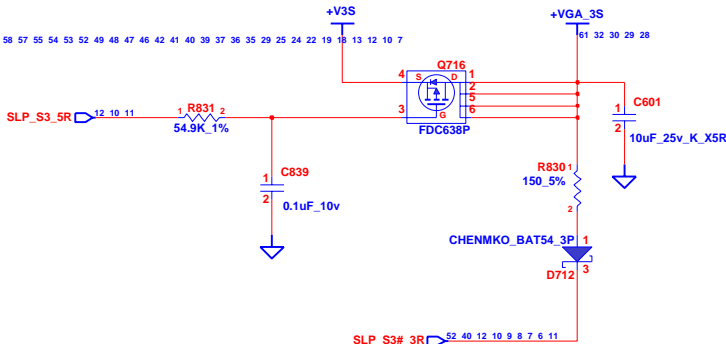
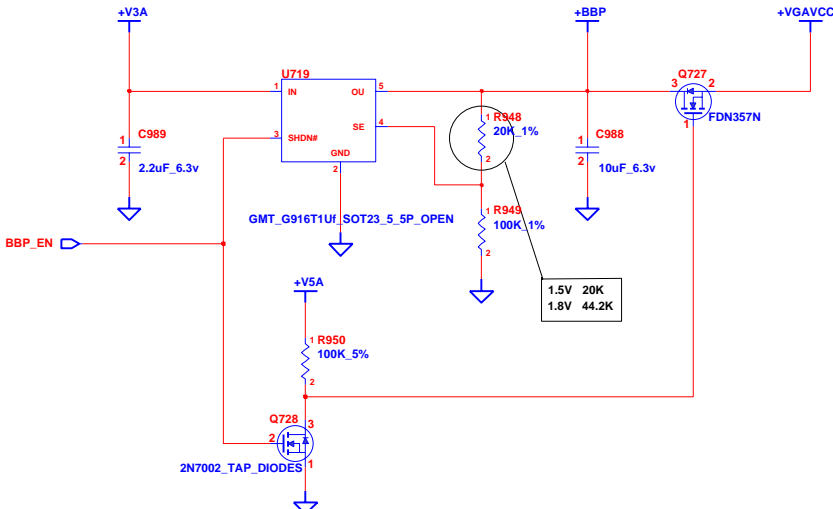








## ONLY FOR M56



**GM : OPEN**

**INVENTEC**

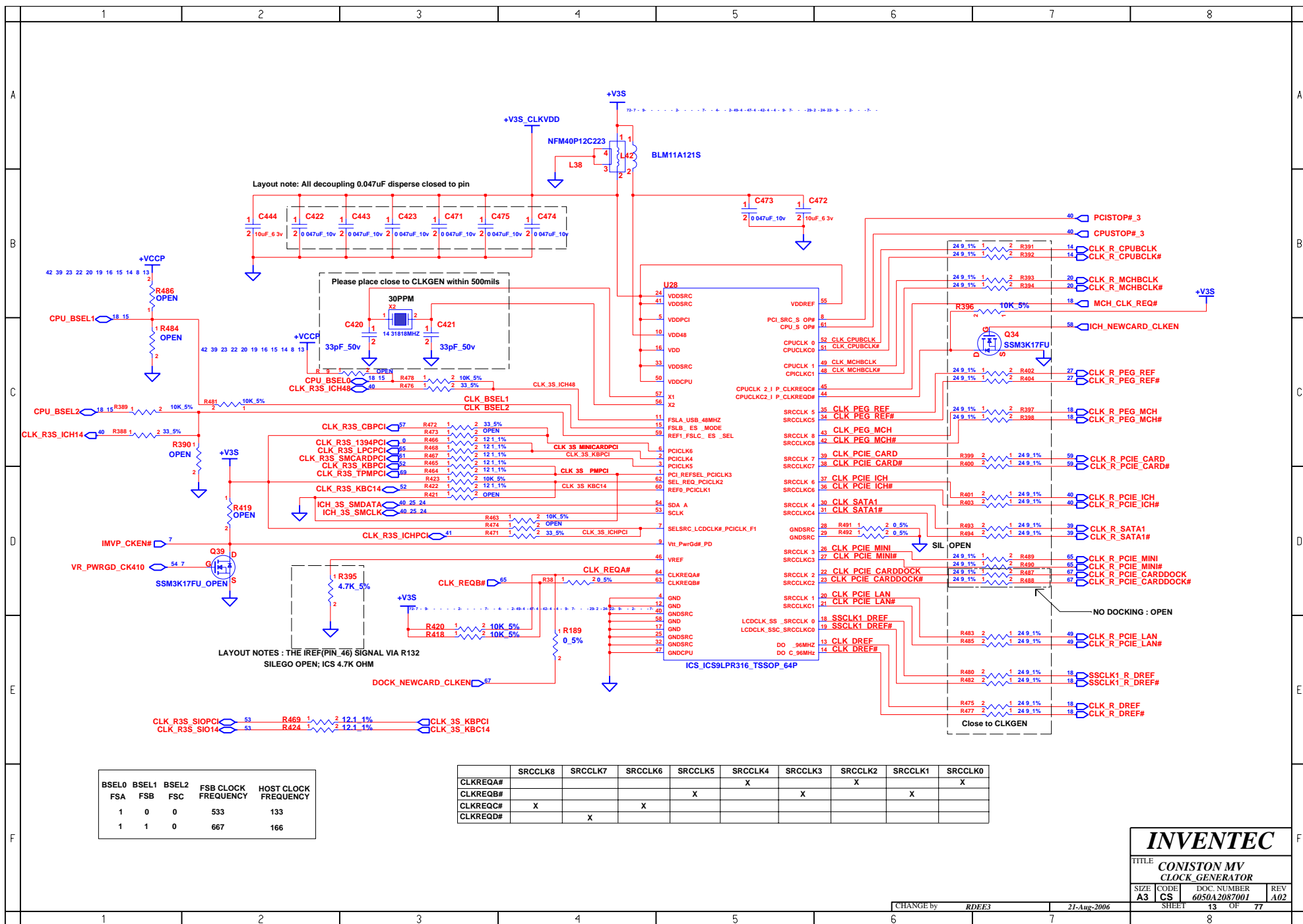
TITLE	<b>CONISTON MV SYSTEM POWER</b>
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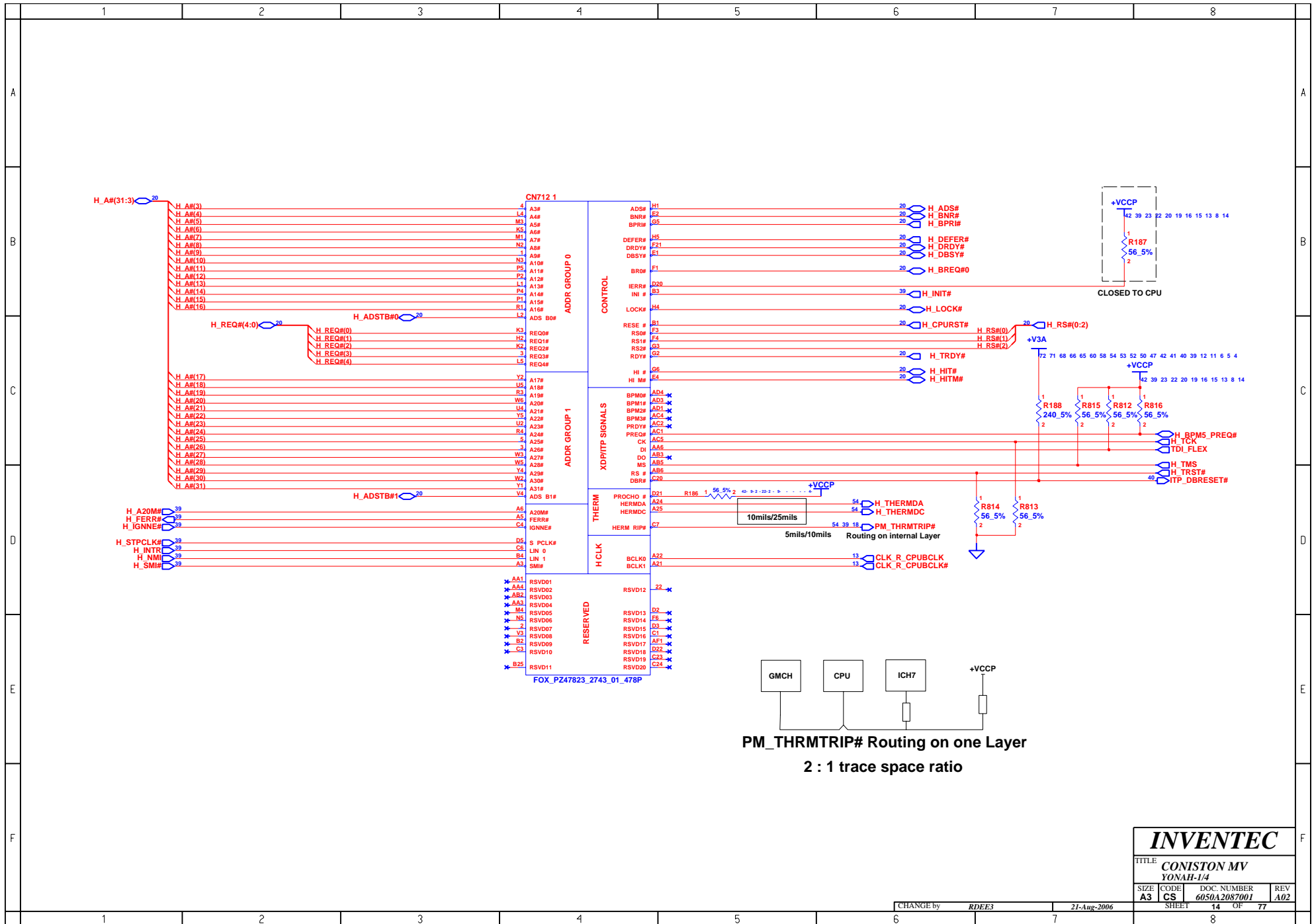
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-------------------	-------------------	------------------------------------	-------------------

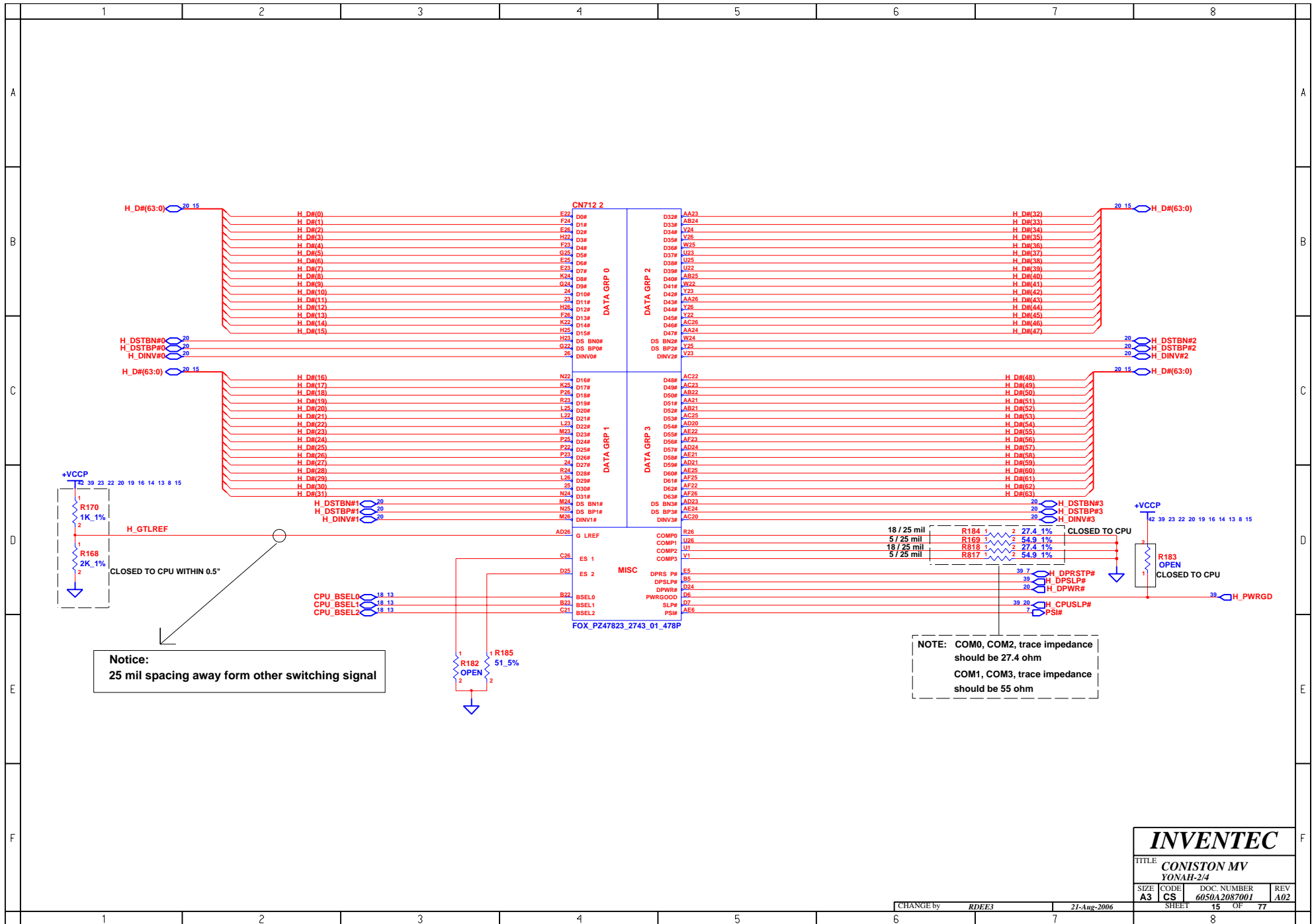
CHANGE by	<i>RDEE3</i>	<i>21-Aug-2006</i>
-----------	--------------	--------------------

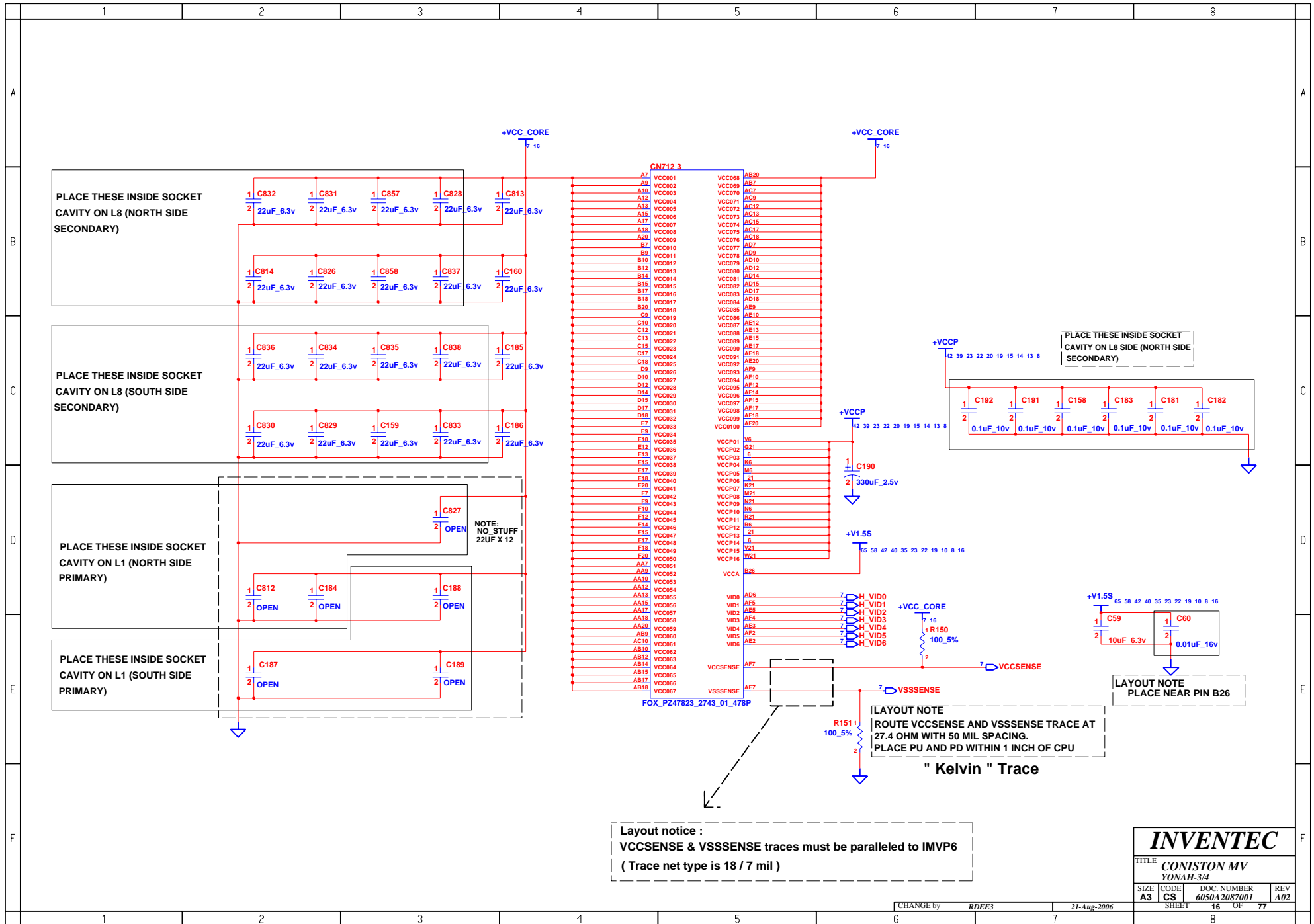
CS	6050A2087001		
SHEET	11	OF	77













120V, 15A, 2-wire branch circuit

FOX\_PZ47823\_2743\_01\_478P

CHANGE by RDEF3 21-Aug-2006

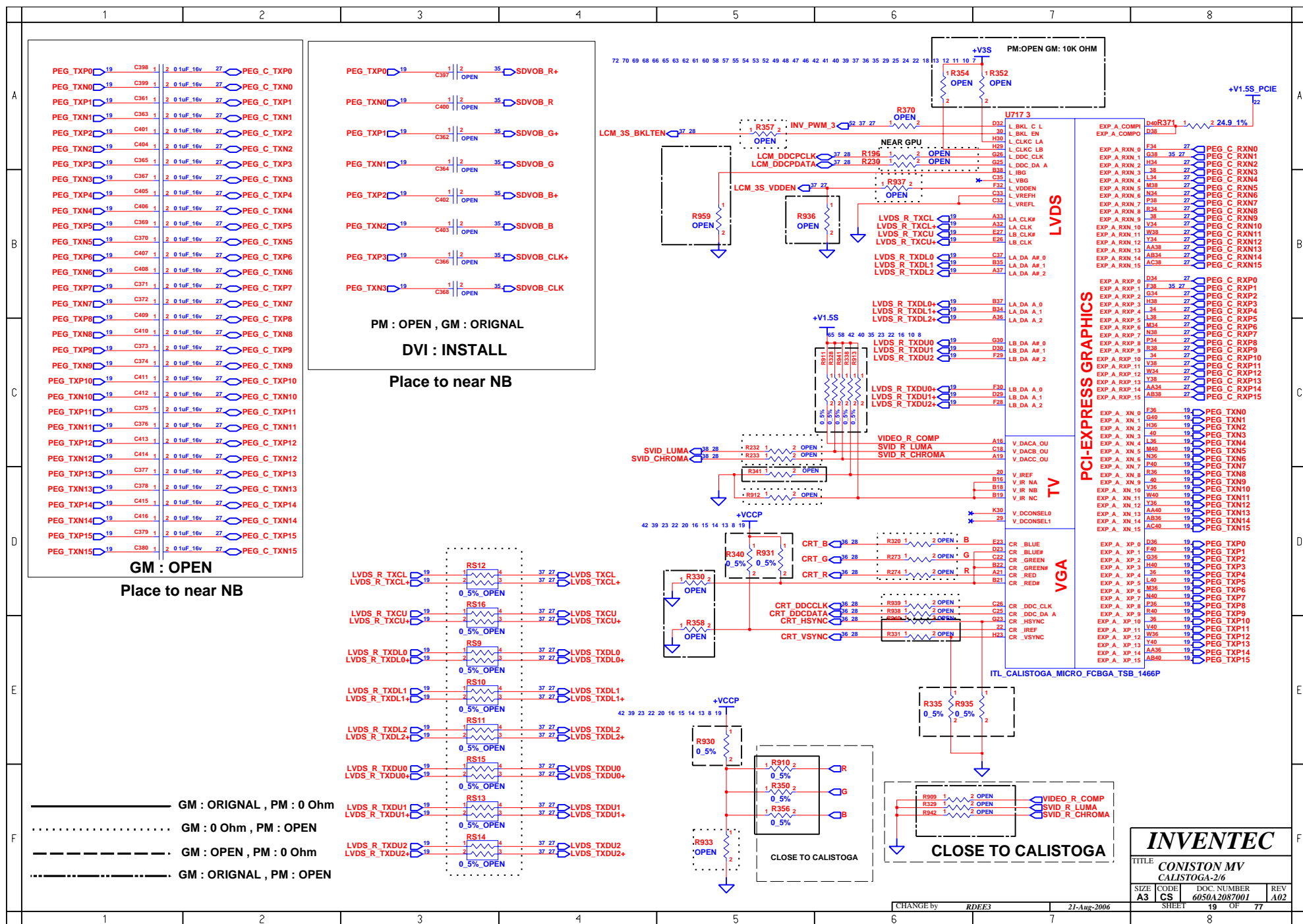
INVENTEC

TITLE CONISTON MV YONAH-4/4

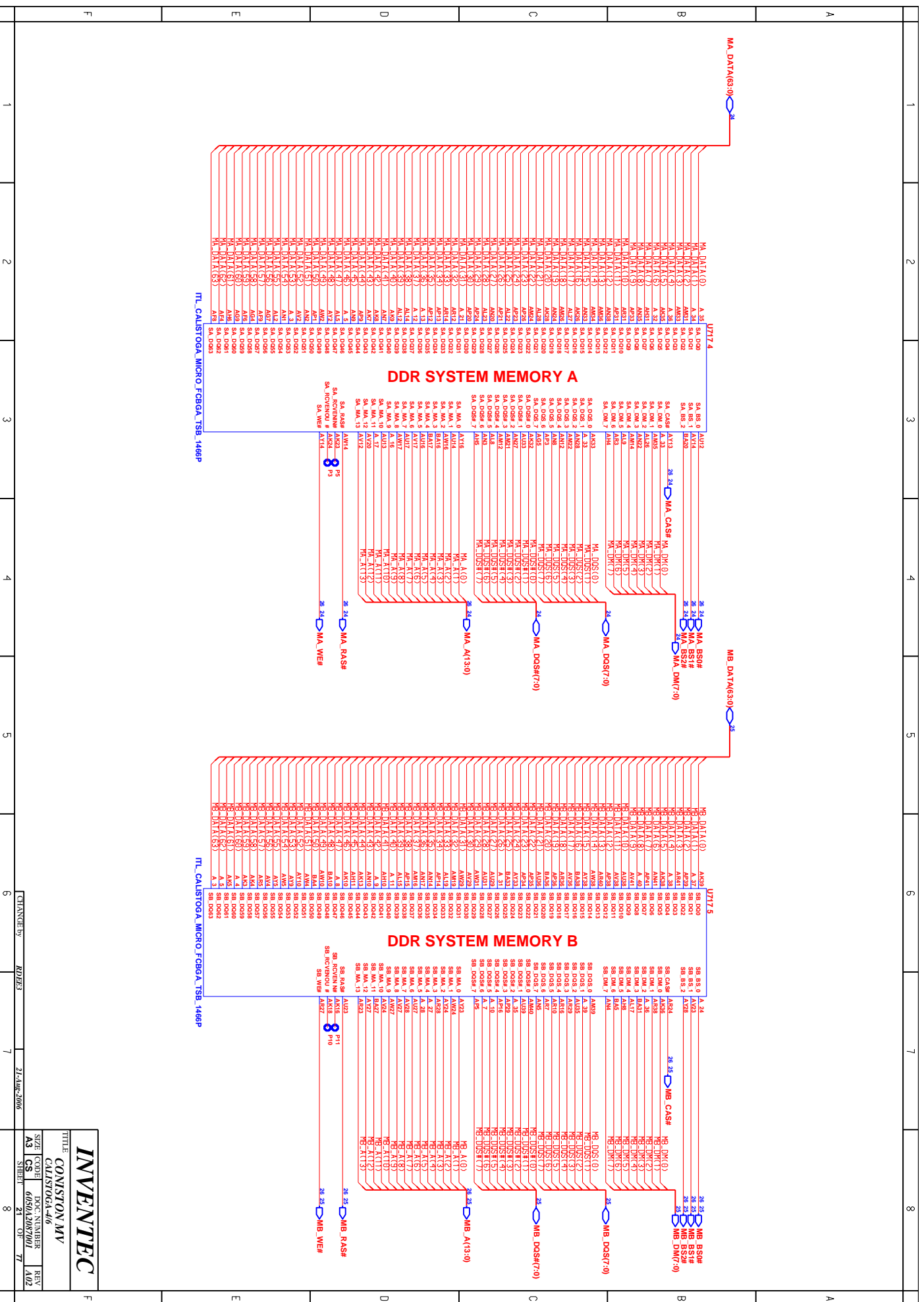
SIZE A3 CODE CS DOC. NUMBER 6050A2087001 REV A02

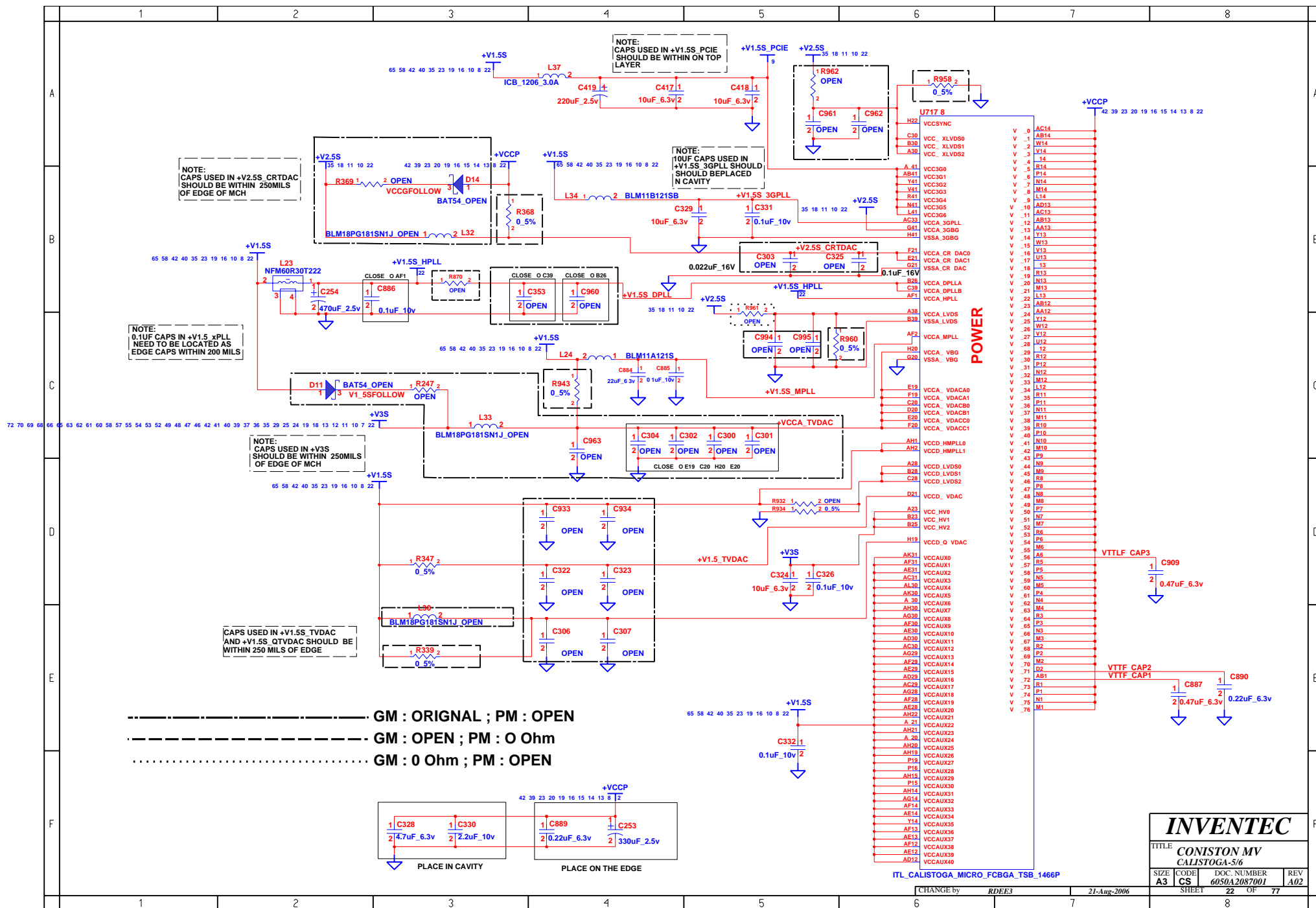
SHEET 17 OF 77

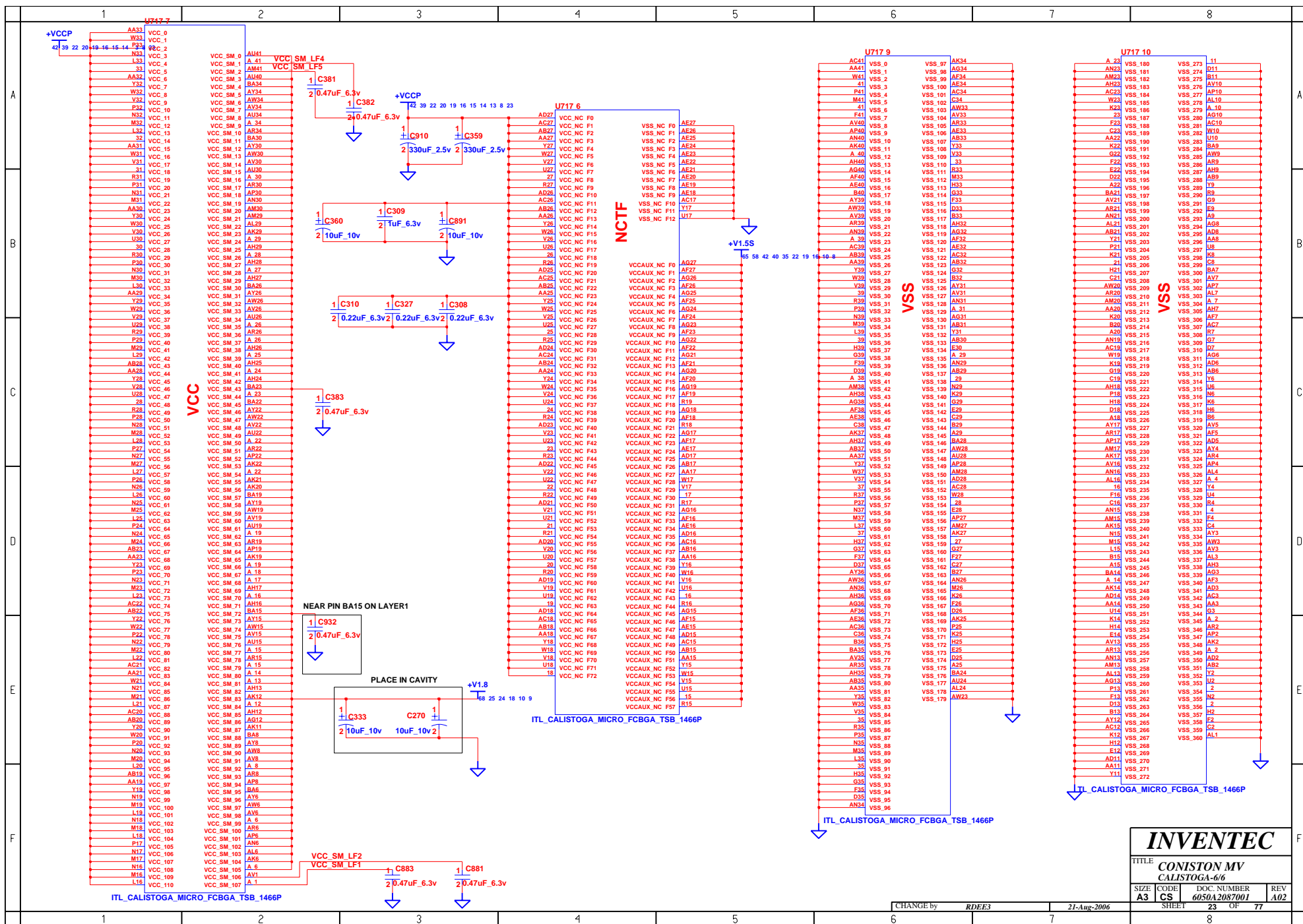










**INVENTEC**

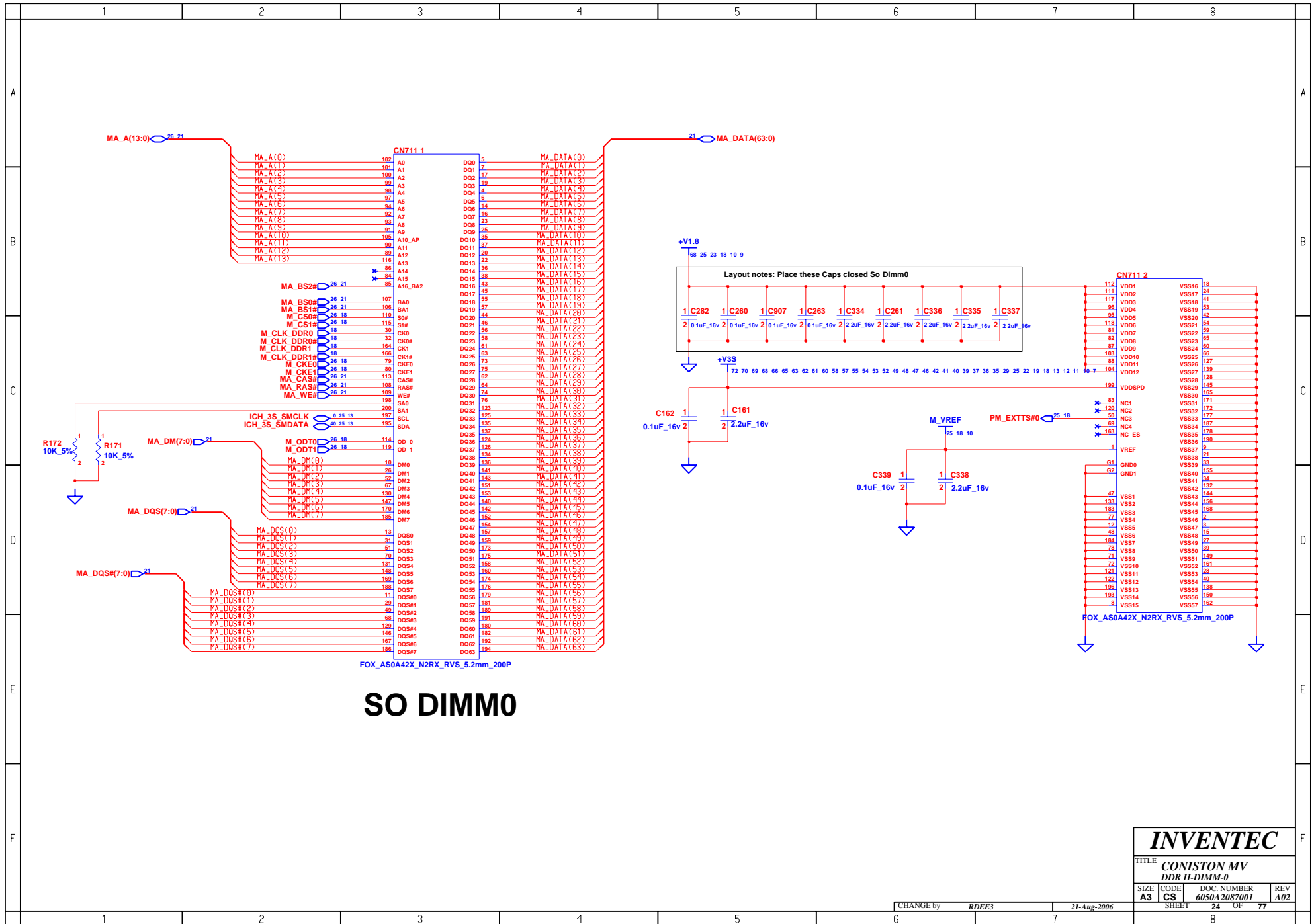
TITLE	<b>CONISTON MV</b> <b>CALISTOGA-6/6</b>
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SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2087001	A02

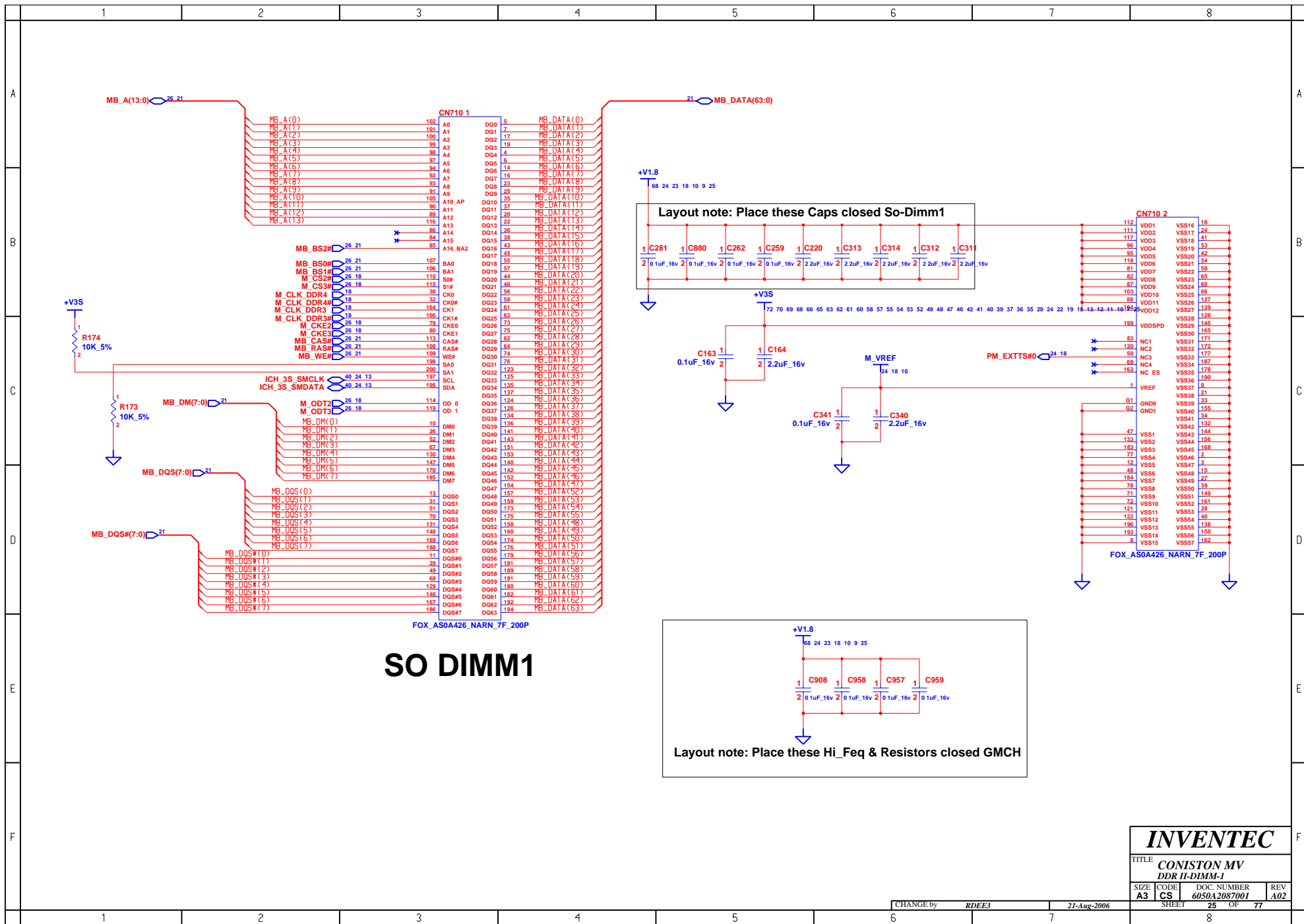
CHANGE by *RDEE3*

21-Aug-2006

CS	6050A2087001		
SHEET	23	OF	77







SO DIMM1

INVENTEC

TITLE  
CONISTON MV  
DDR II-DIMM-1

SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2087001	A02

CHANGE by RDEE3 21-Aug-2006

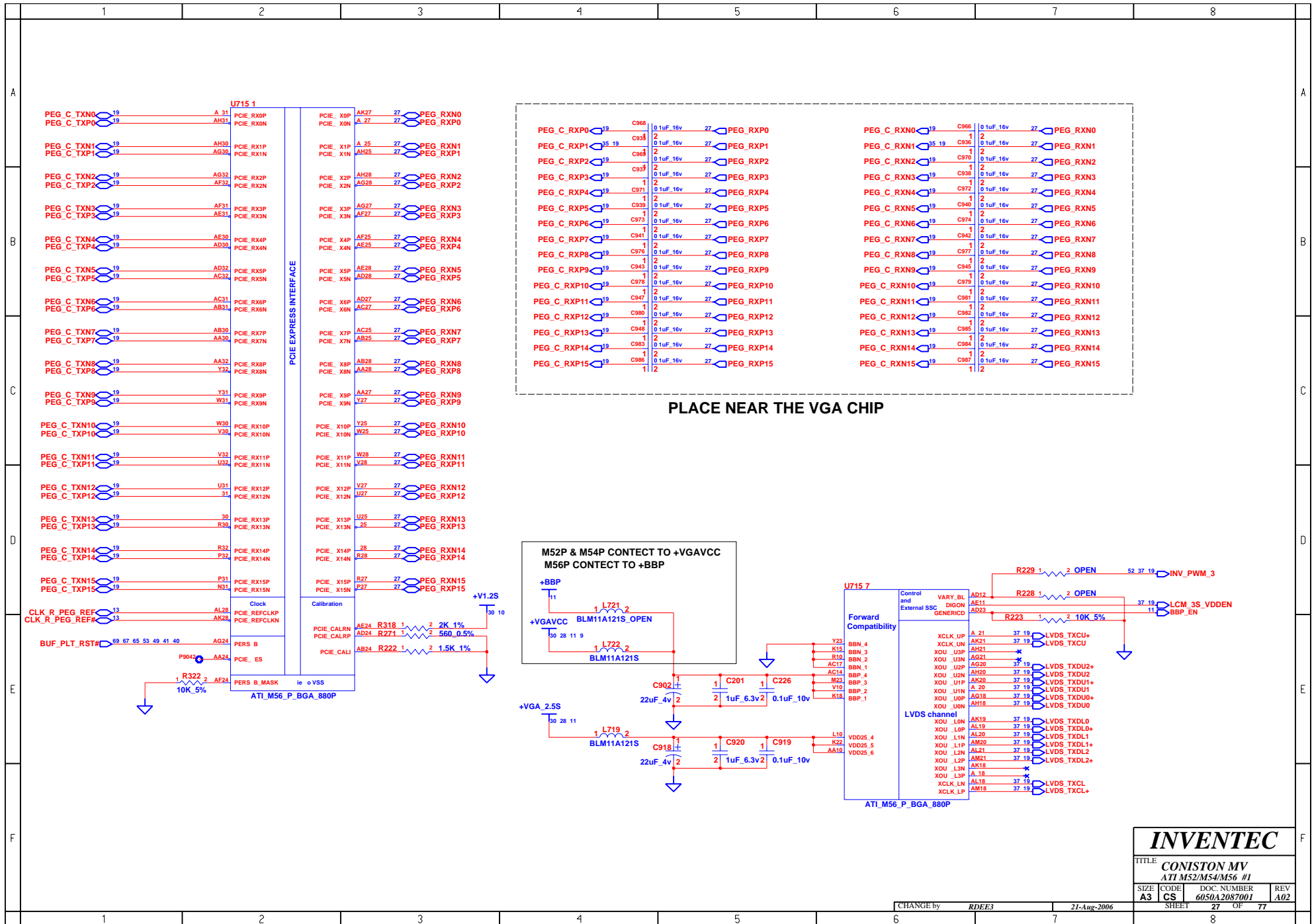
SHEET 25 OF 77



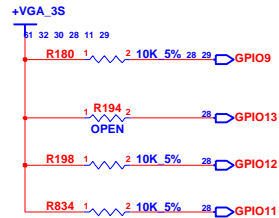
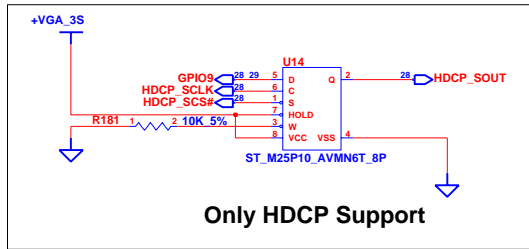
**INVENTEC**

TITLE		
CONISTON MV		
DDR II-DAMPING		
SIZE	DOC. NUMBER	REV
A3	6050A2087001	A02

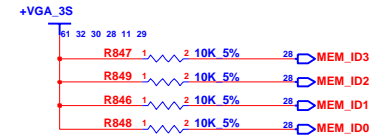
CHANGE by	RDEE3	21-Aug-2006
SHEET		26 OF 77





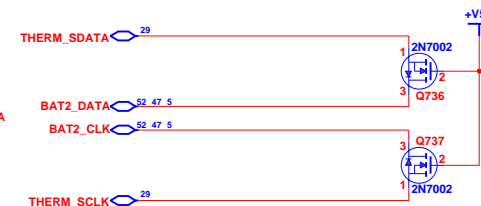
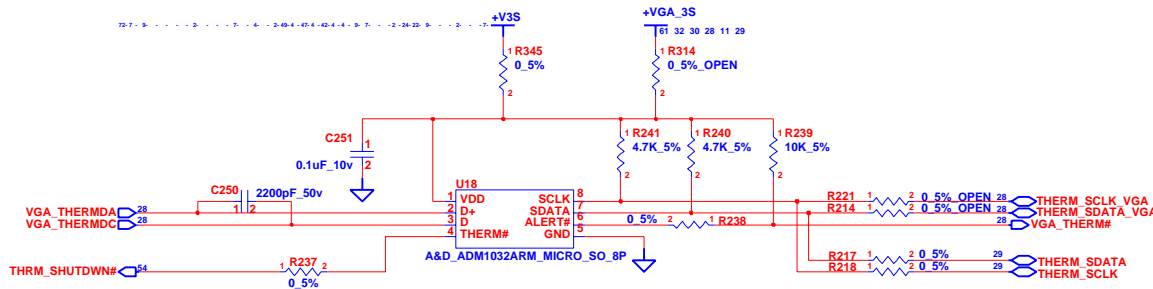


GPIO9,(13 11)	M56 VMEM CFG9,(11 13)-Memory Type
000X	NO ROM, MEM AP SIZE=00(128M)
001X	NO ROM, MEM AP SIZE=01(256M)
010X	NO ROM, MEM AP SIZE=10(64M)
011X	NO ROM, MEM AP SIZE=11(RESERVER)
ROM attached	GPIO(13 12) memory aperture size
1011	1M serial M25P10 ROM



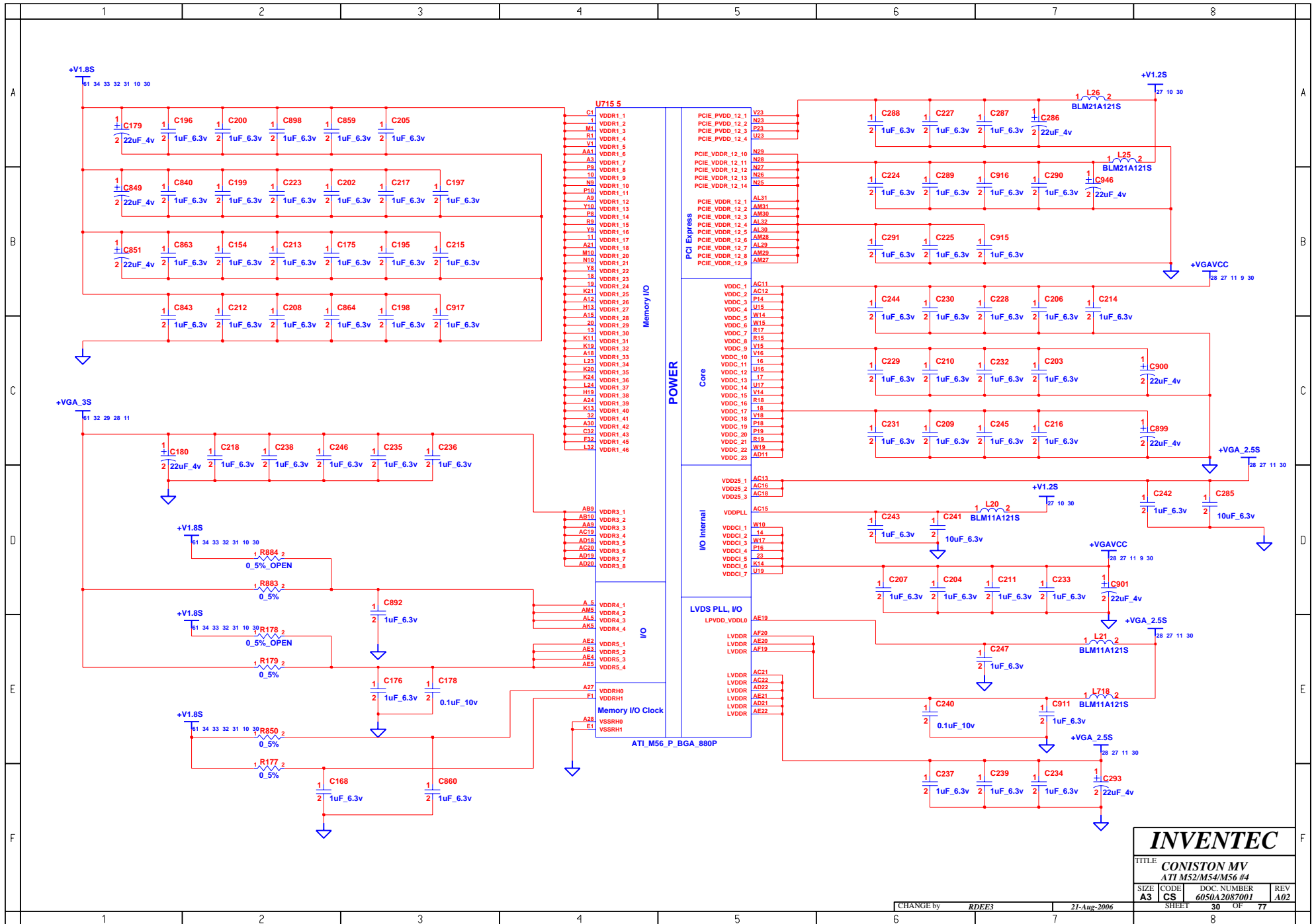
MEM ID(3 0)	M56VMEM CFG(3 0)-Memory Type
00h	SAMSUNG 16M x 16 (64MB)
01h	SAMSUNG 16M x 16 (128MB)
02h	TBD
03h	TBD
04h	Hynix 16M x 16 (64MB)
05h	Hynix 16M x 16 (128MB)
06h	TBD
07h	TBD
08h	Infineon 16M x 16 (64MB)
09h	Infineon 16M x 16 (128MB)
0Ah	TBD
0Bh	TBD
0Ch	SAMSUNG 32M x 16 4pcs(256MB)
0Dh	Hynix 32M x 16 4 pcs(256MB)
0Eh	Infineon 32M x 16 4 pcs(256MB)
0Fh	TBD

GPIO(0)
Transmitter Power Savings Enable
0 50 % Tx output swing
1 Full Tx output swing
GPIO(1)
Transmitter De-emphasis Enable
0 Tx de-emphasis disabled
1 Tx de-emphasis enable

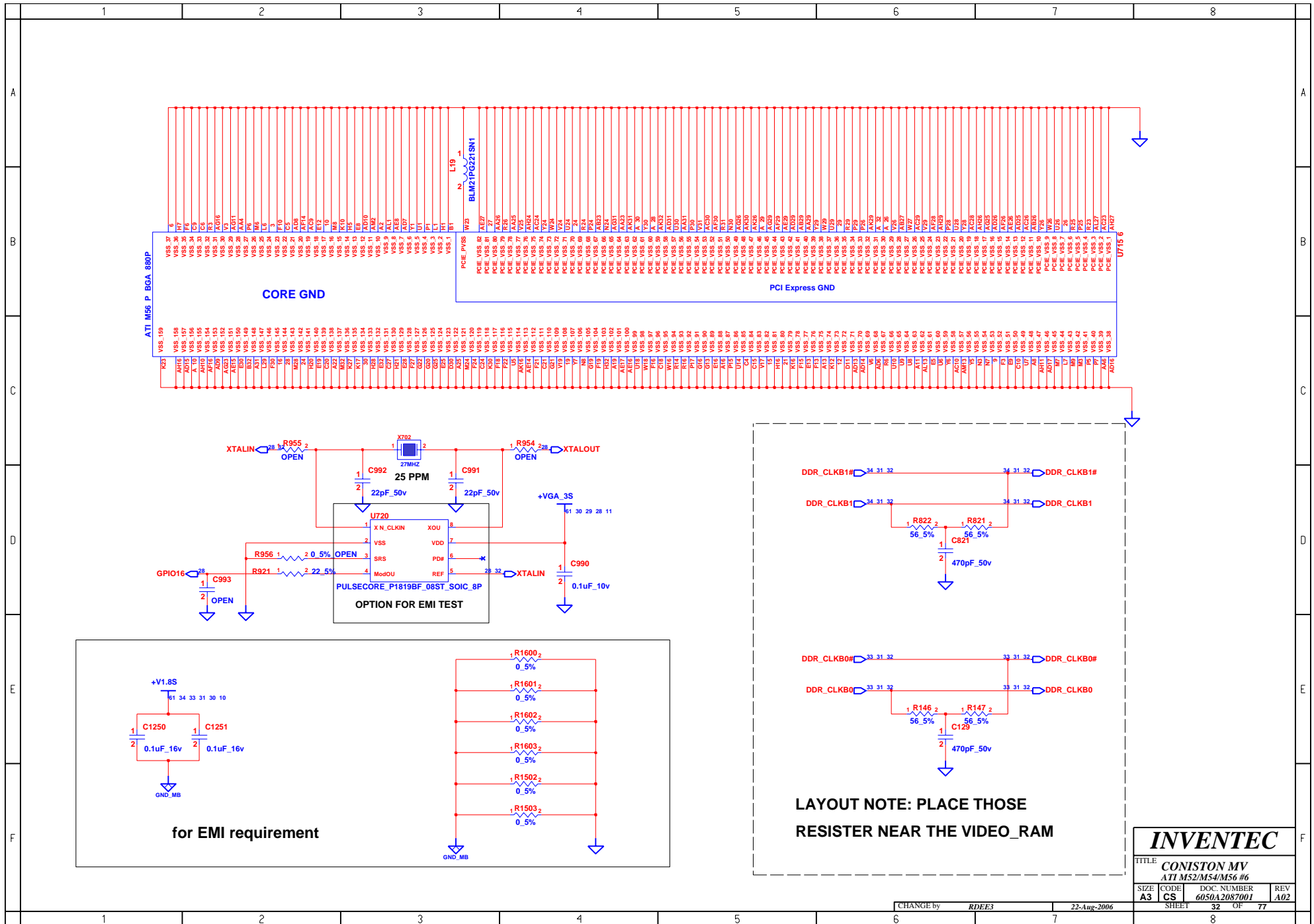


INVENTEC			
TITLE CONISTON MV ATI M52/M54/M56 #3			
SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02
SHEET 29		OF 77	

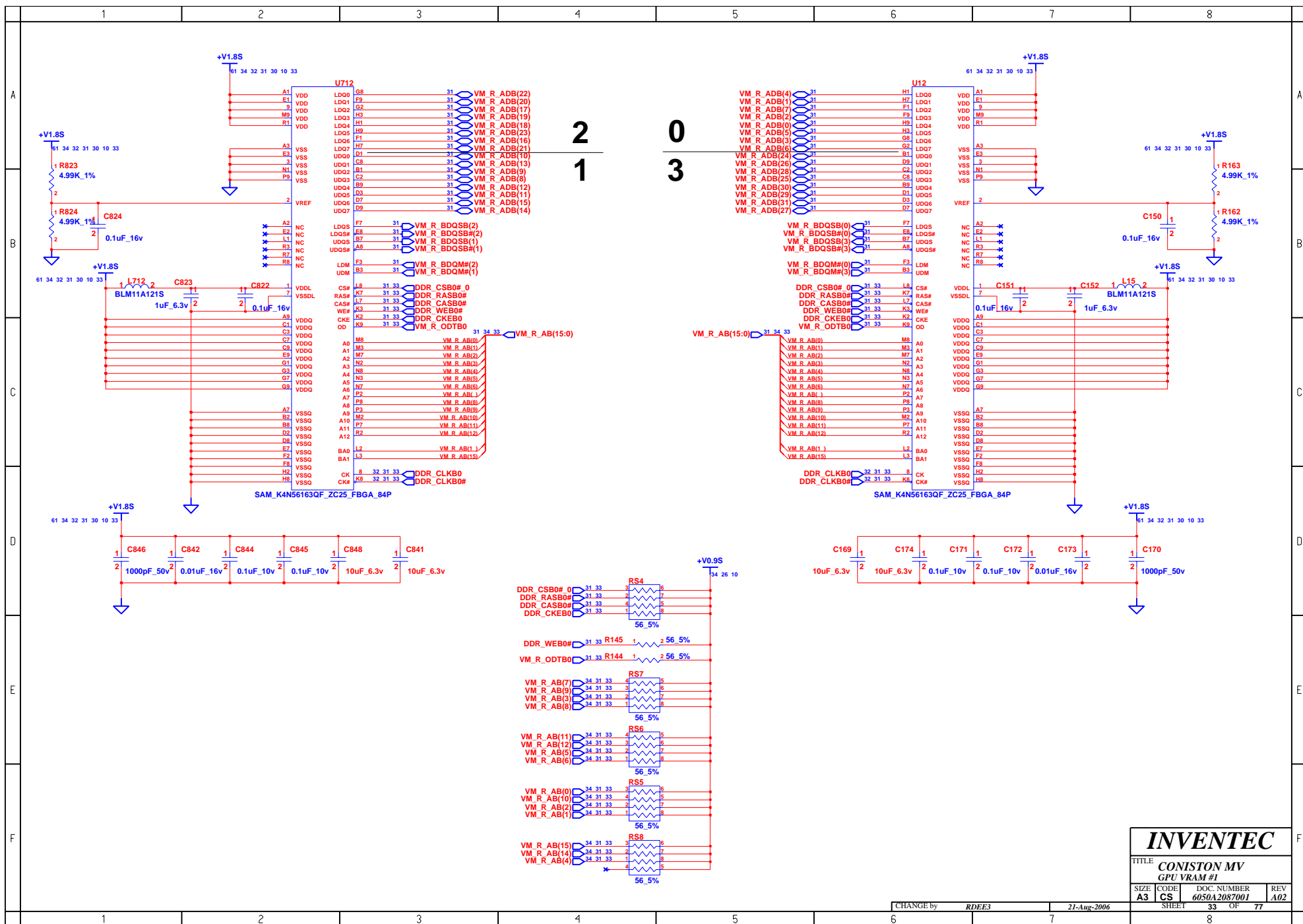
CHANGE by RDEE3 21-Aug-2006

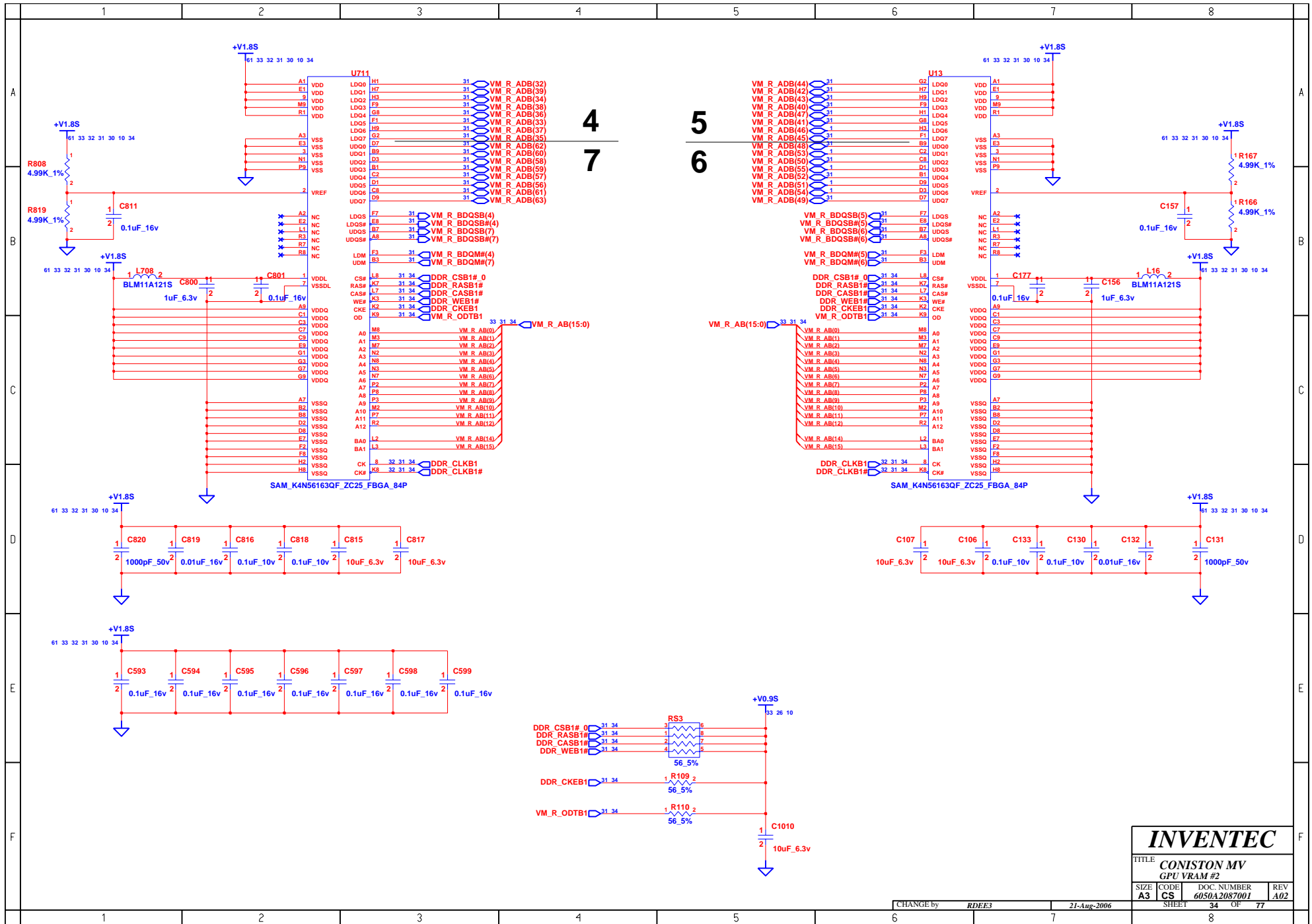


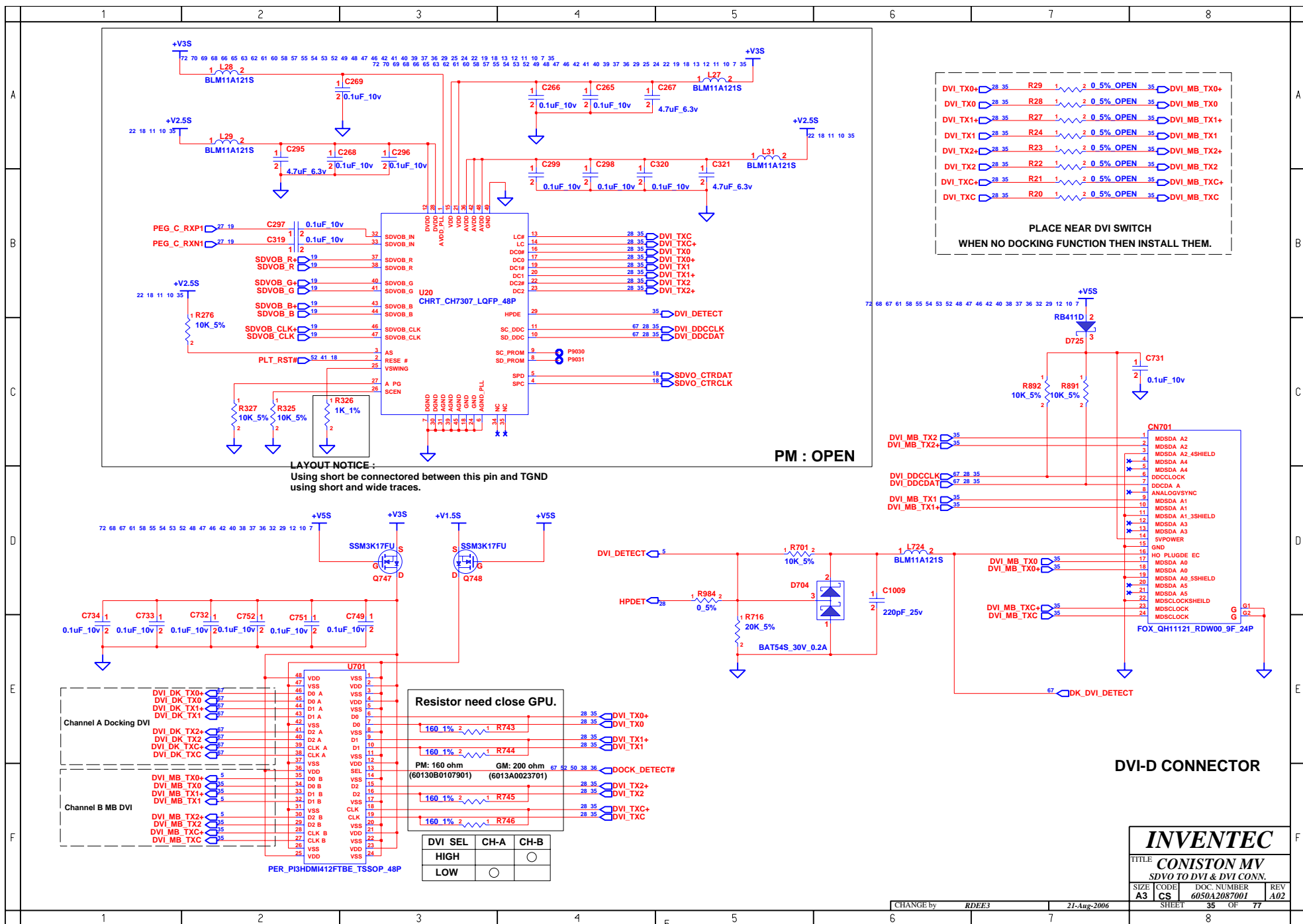


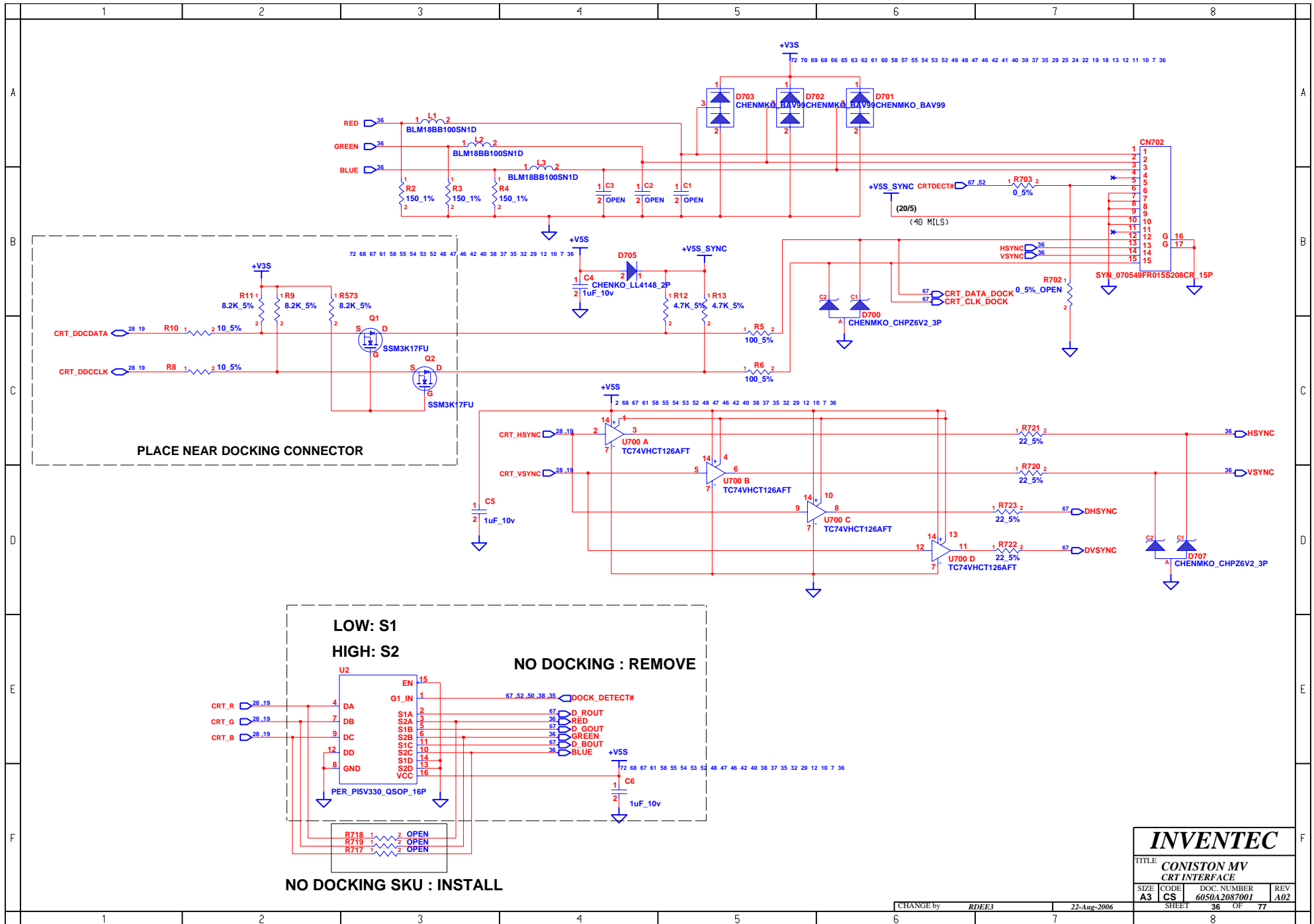


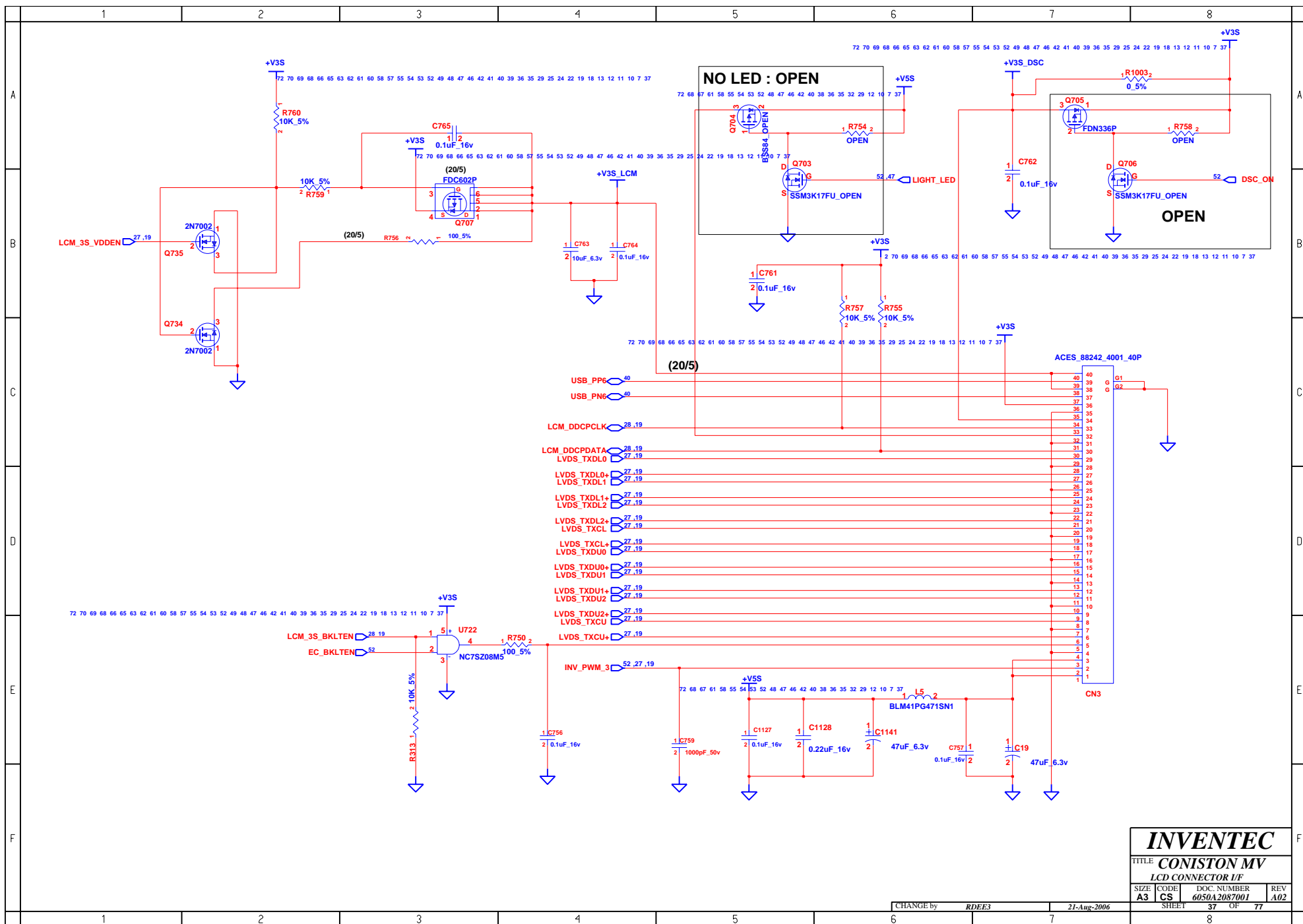


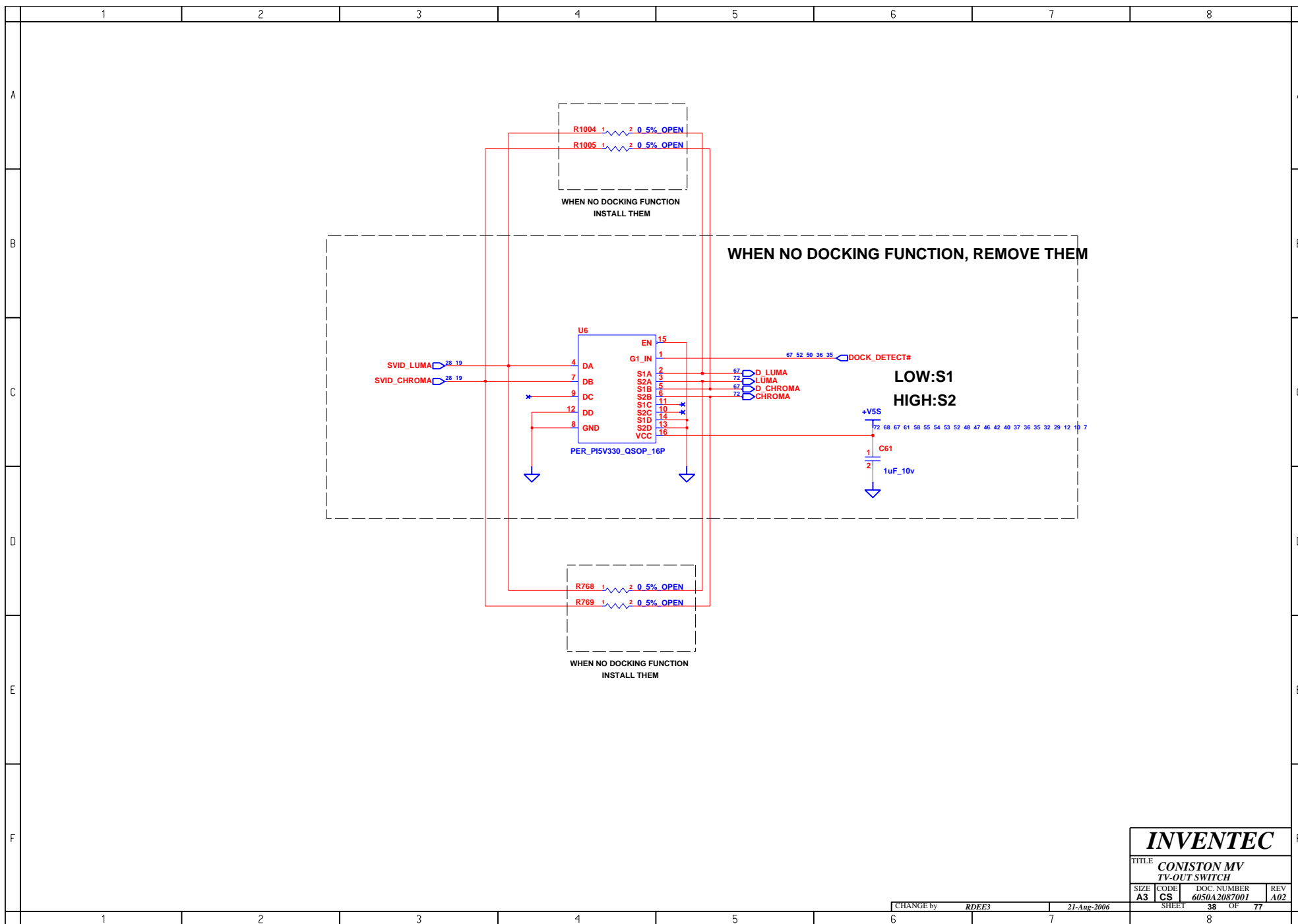


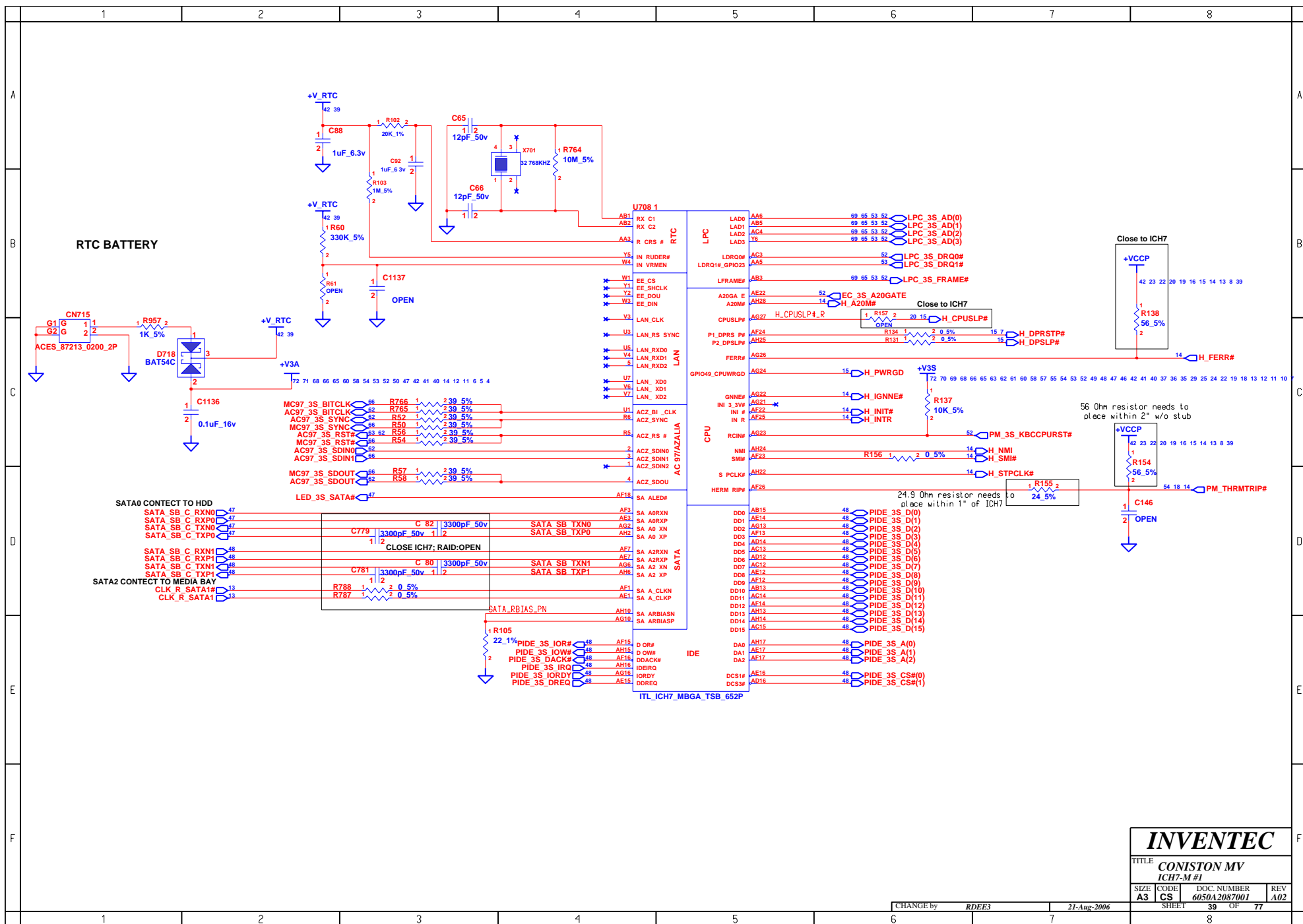








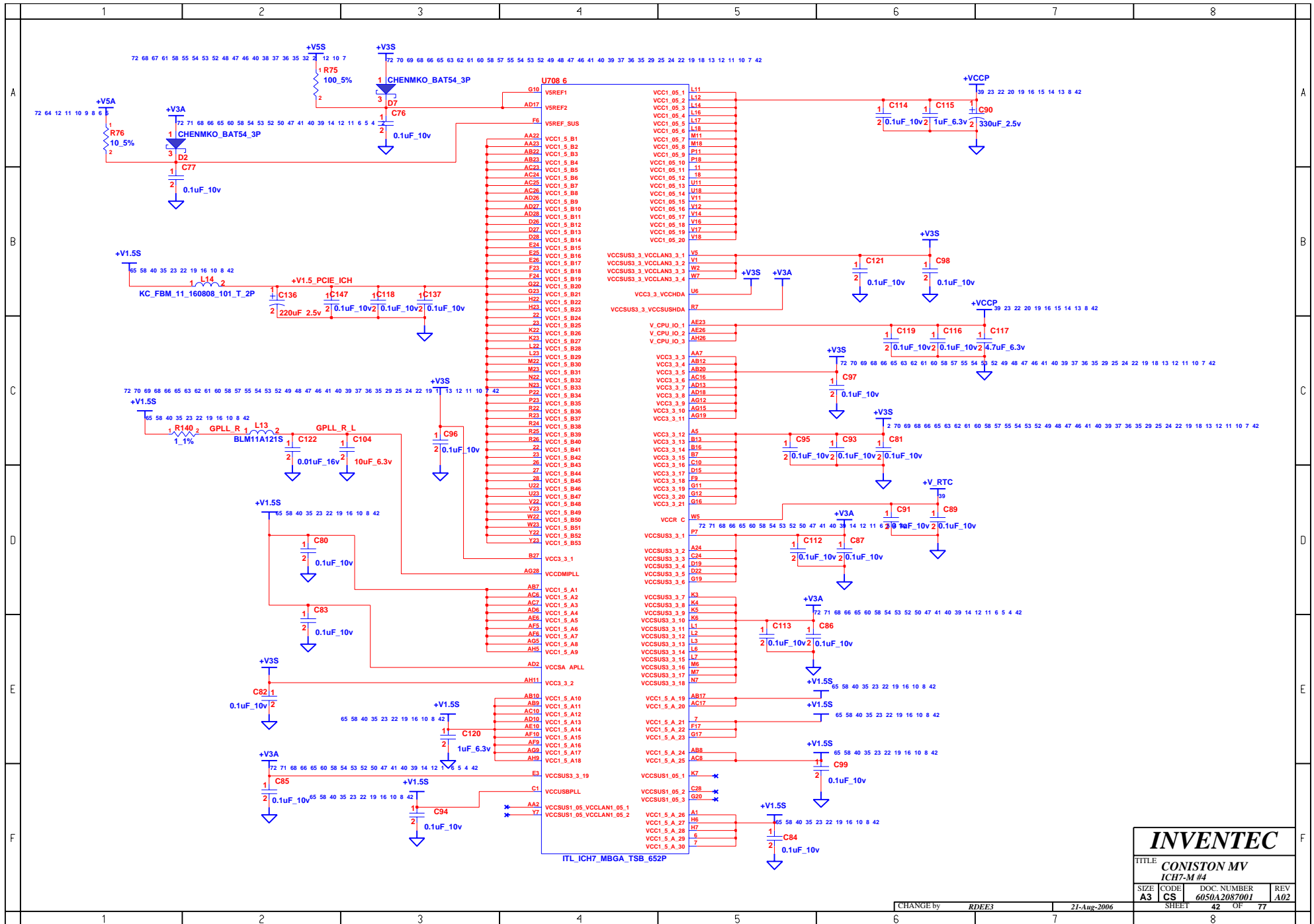












	1	2	3	4	5	6	7	8
A								
B								
C								
D								
E								
F								

CHANGE by RDEF3 21-Aug-2006				SHEET 43 OF 77
SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02	

	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>RDEE3</i>		21-Aug-2006	
						6	7	8	

**INVENTEC**

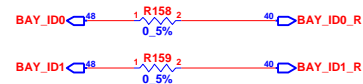
TITLE **CONISTON MV**  
**RAID CONTROLLER**

SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>6050A2087001</b>	REV <b>A02</b>
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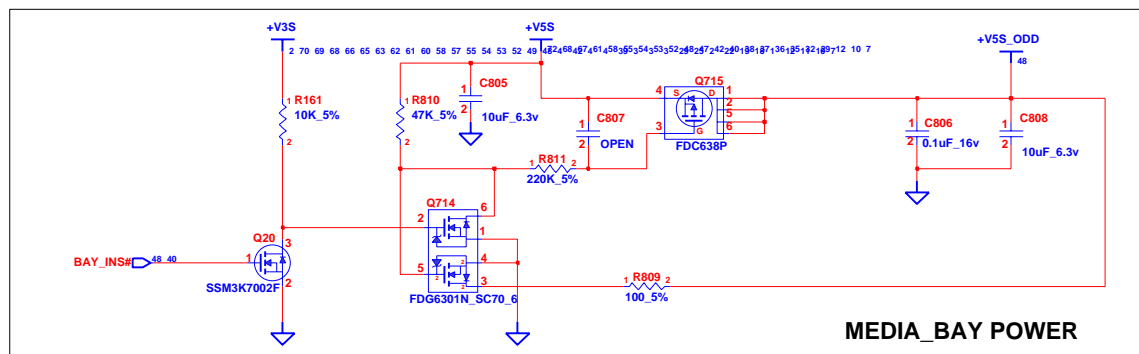
SHEET **44** OF **77**

	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>RDEE3</i>		21-Aug-2006	
1	2	3	4	5	6	7	8		

<b>INVENTEC</b>			
TITLE <i>CONISTON MV RAID CONTROLLER #2</i>			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <i>6050A2087001</i>	REV <i>A02</i>
SHEET 45 OF 77			

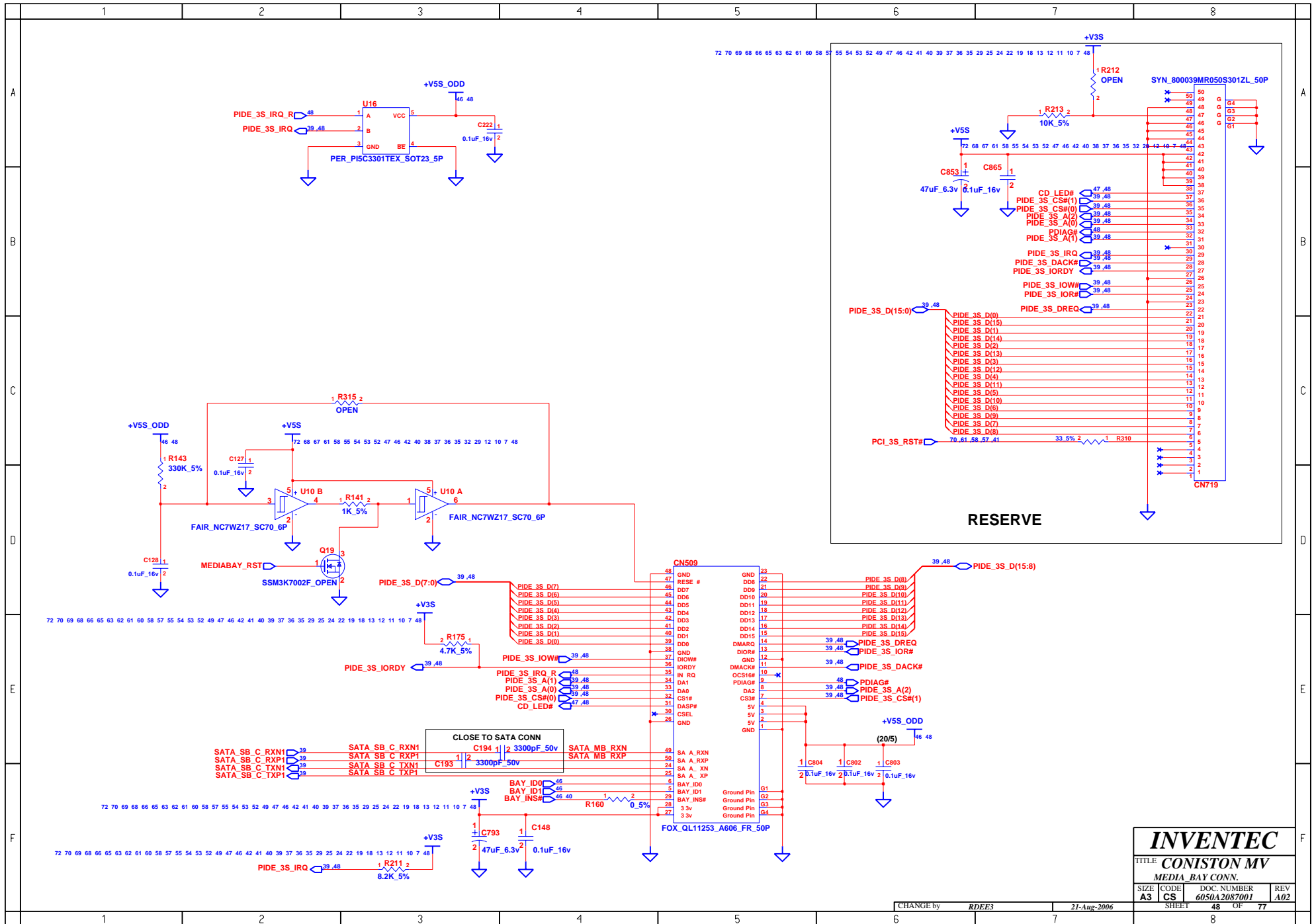


BAY_ID0	BAY_ID1	DEVICE
0	0	RESERVE
0	1	PATA HDD
1	0	PATA ODD
1	1	SATA HDD



INVENTEC			
TITLE: CONISTON MV MEDIA BAY PLUG POWER			
SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02
CHANGE by: RDEE3		21-Aug-2006	
SHEET 46		OF 77	

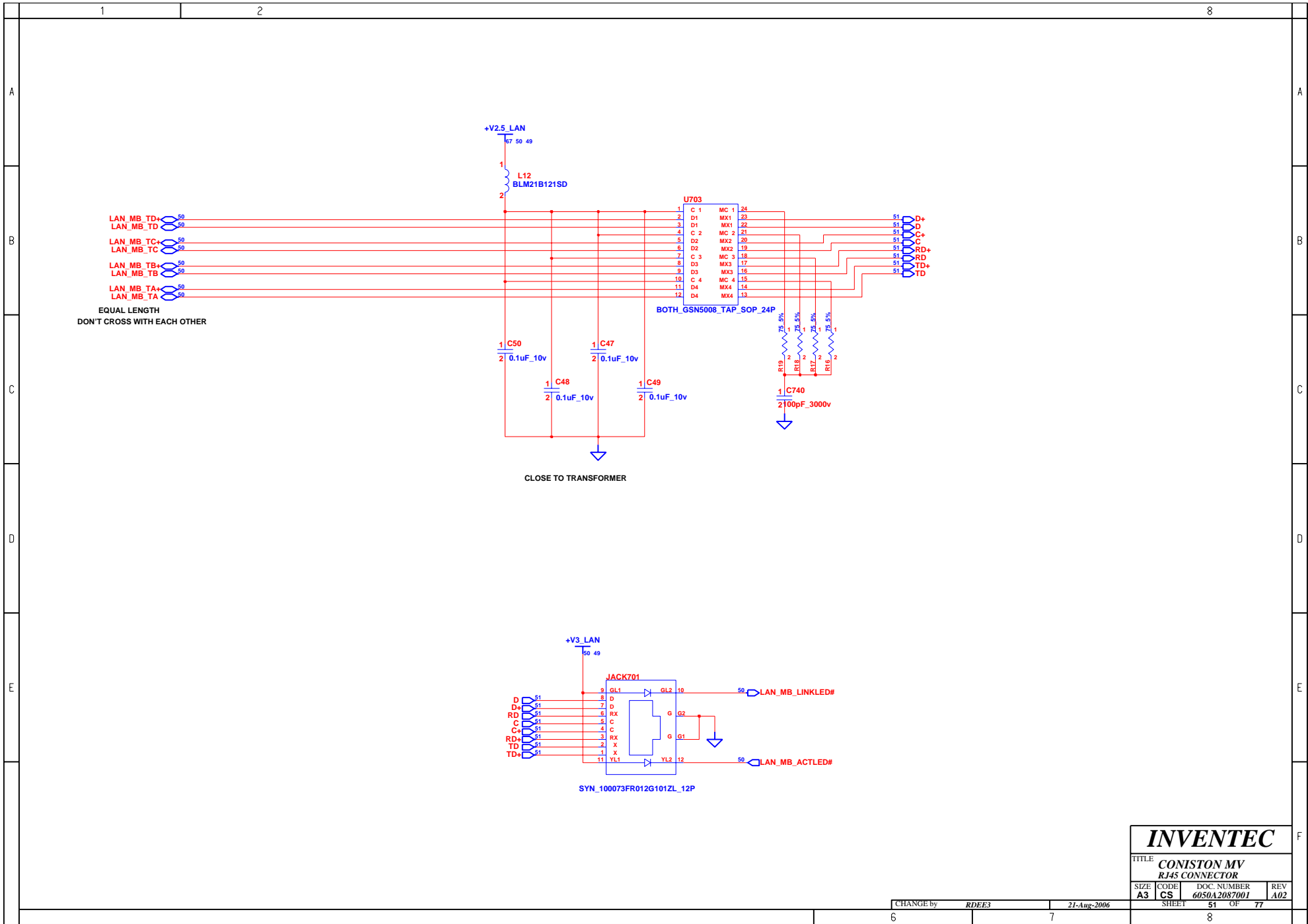




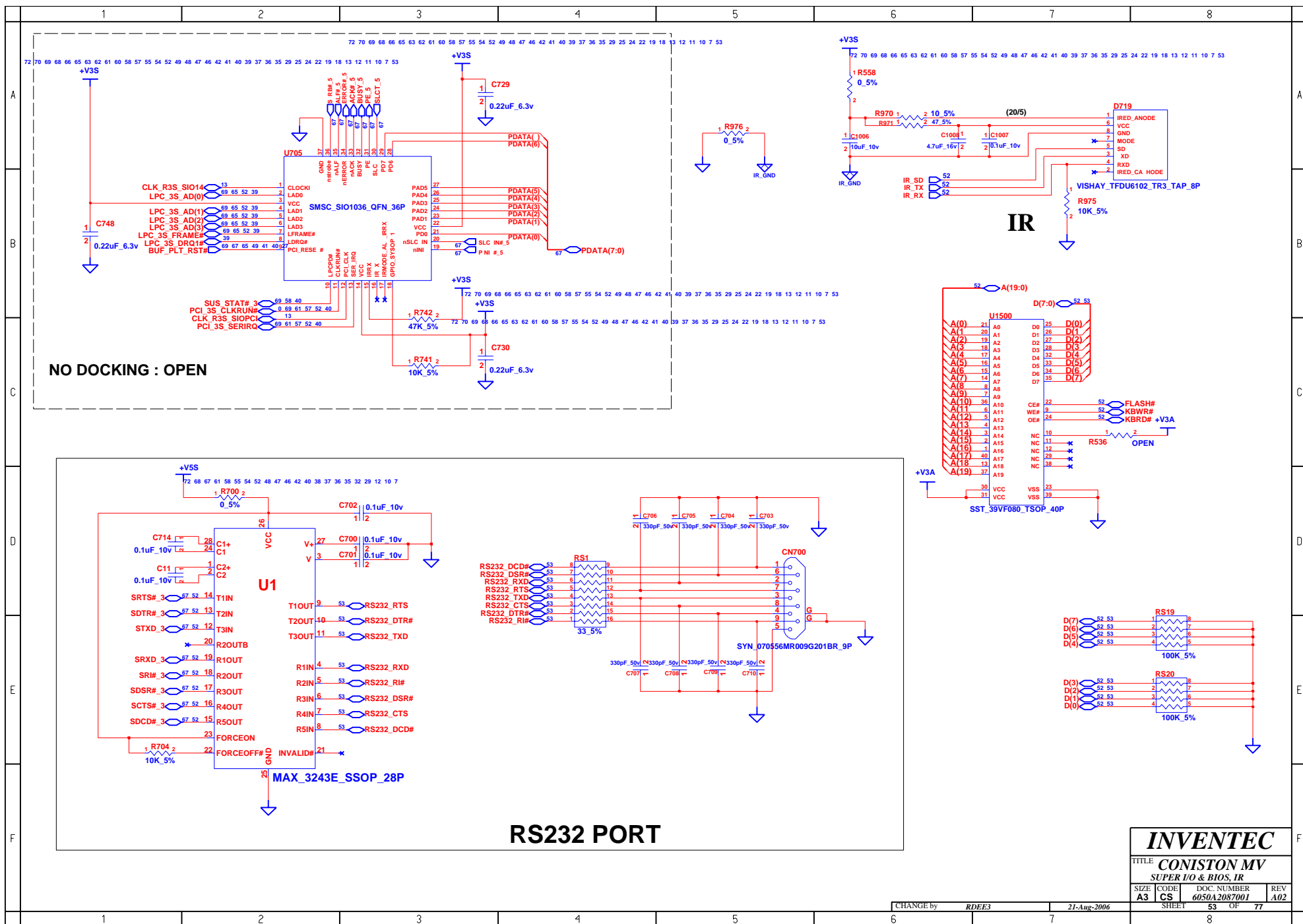




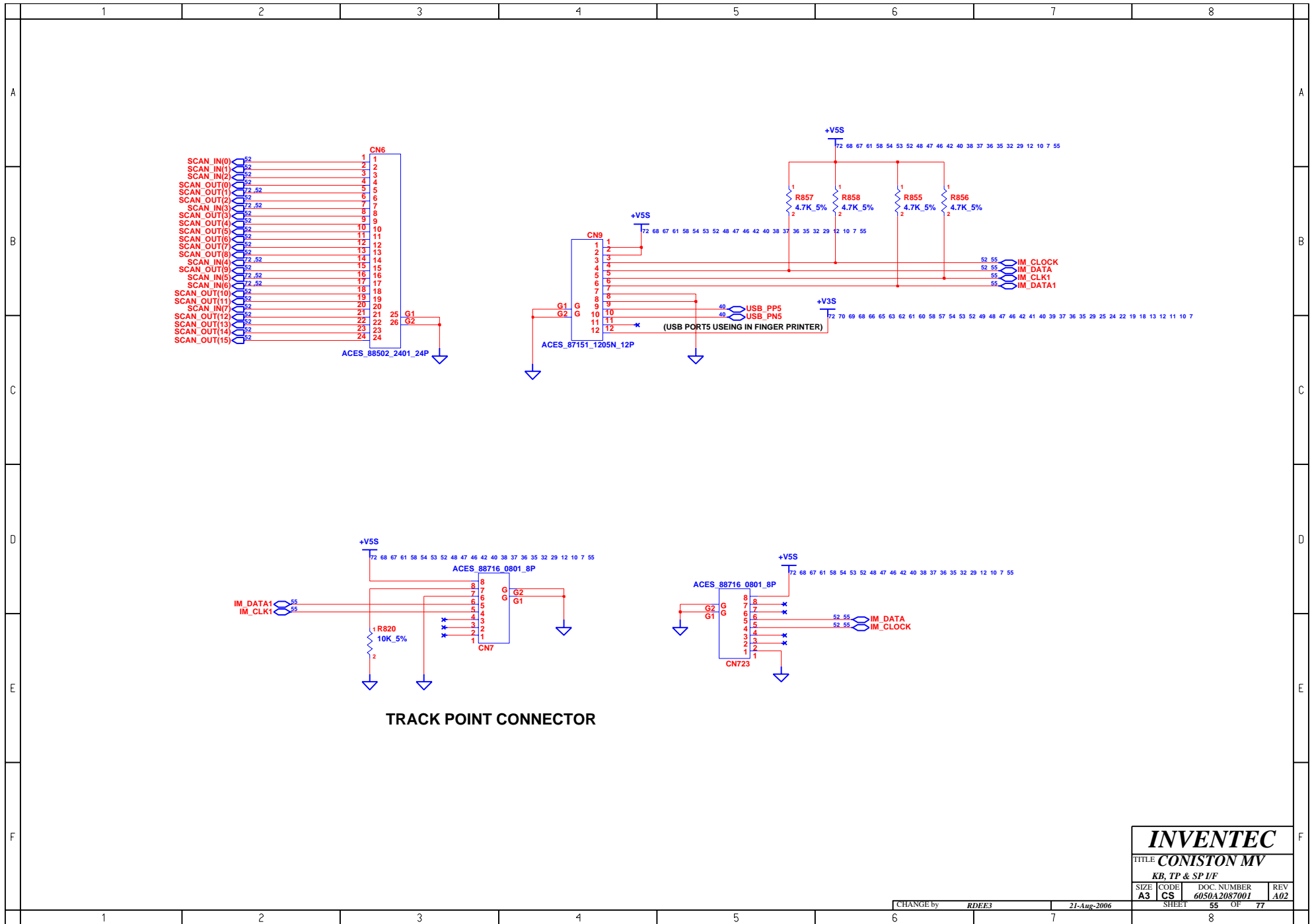












# TRACK POINT CONNECTOR

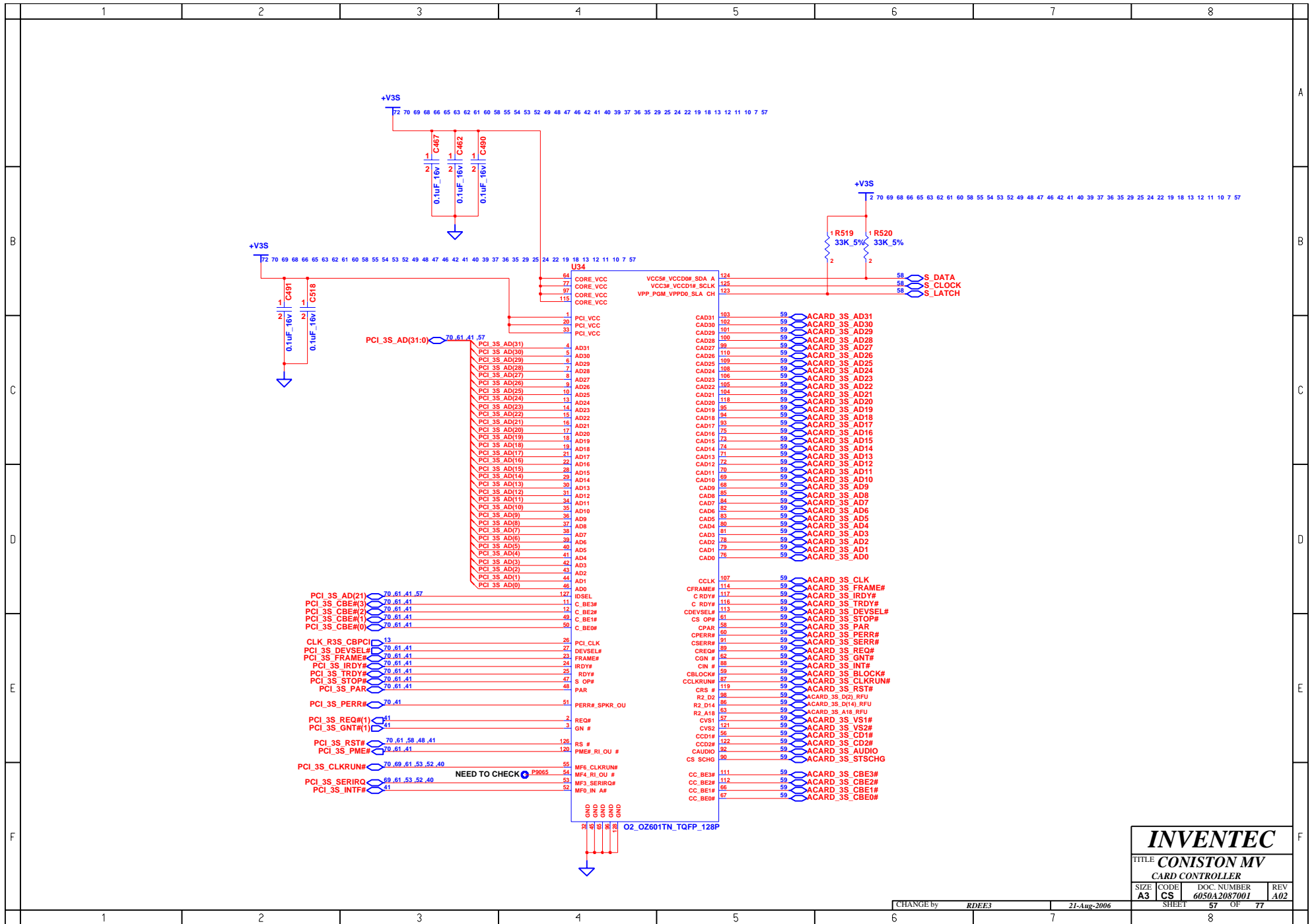
INVENTEC			
TITLE CONISTON MV			
KB, TP & SP I/F			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2087001	A02

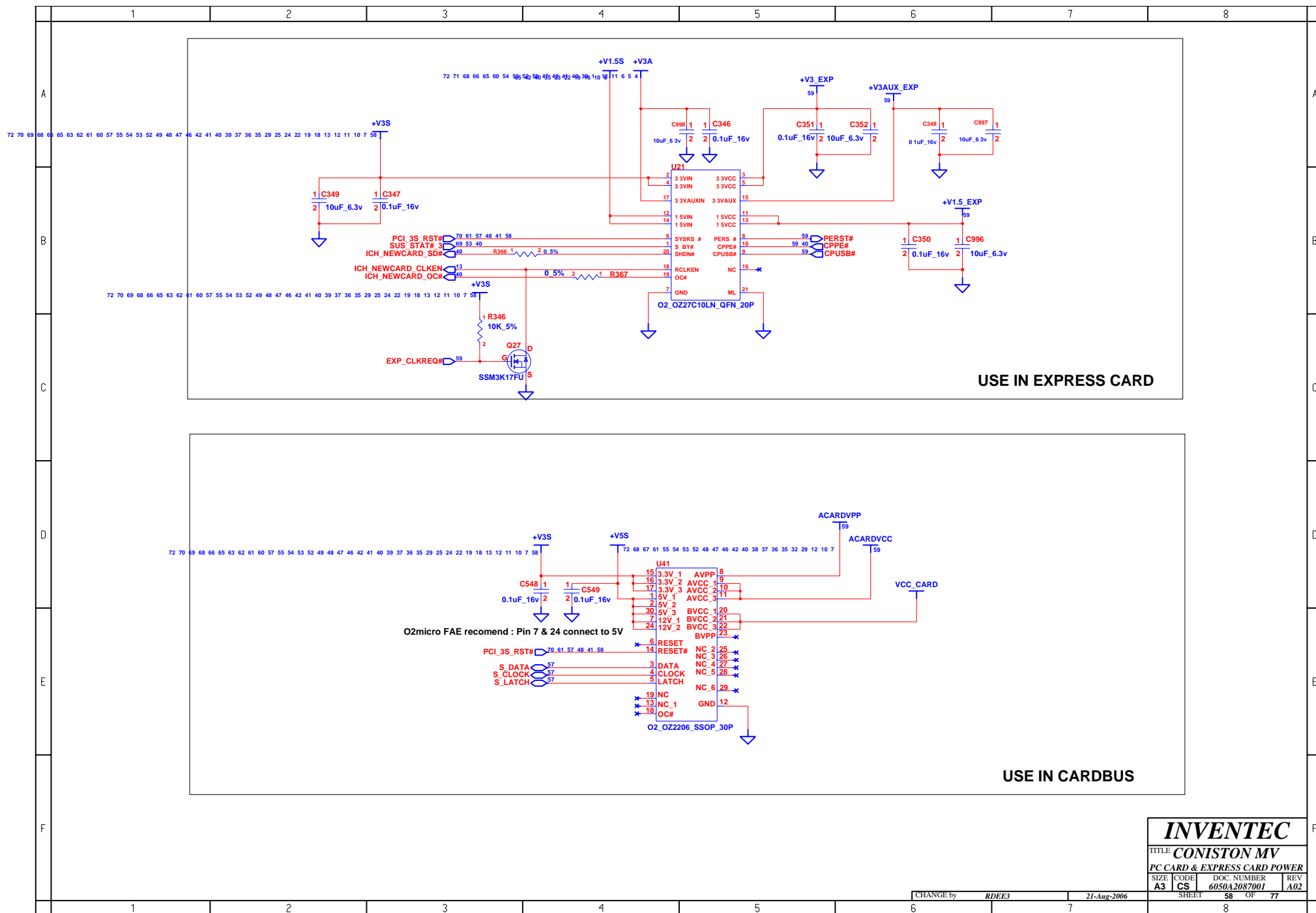
CHANGE by RDEE3 21-Aug-2006

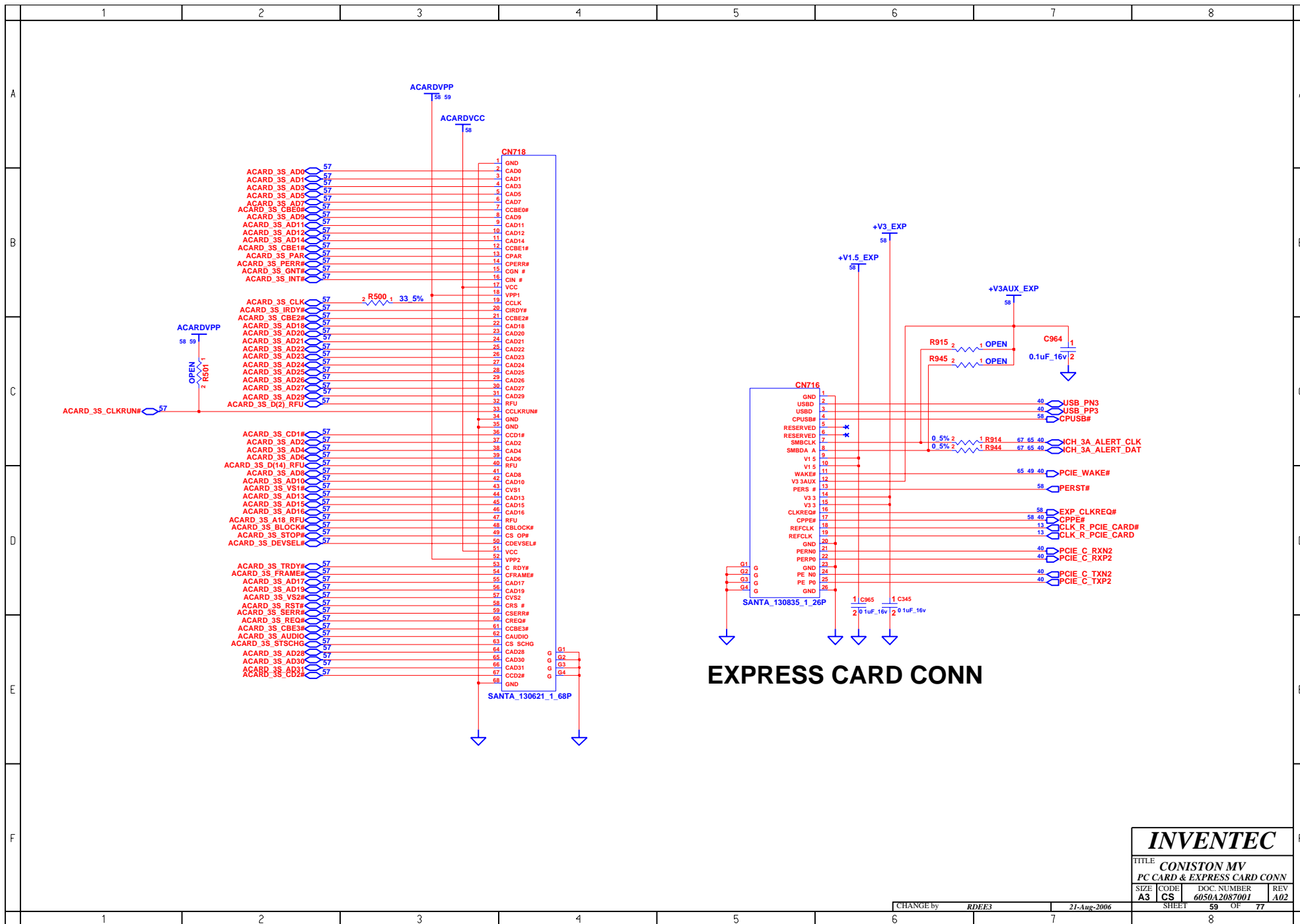
SHEET 55 OF 77











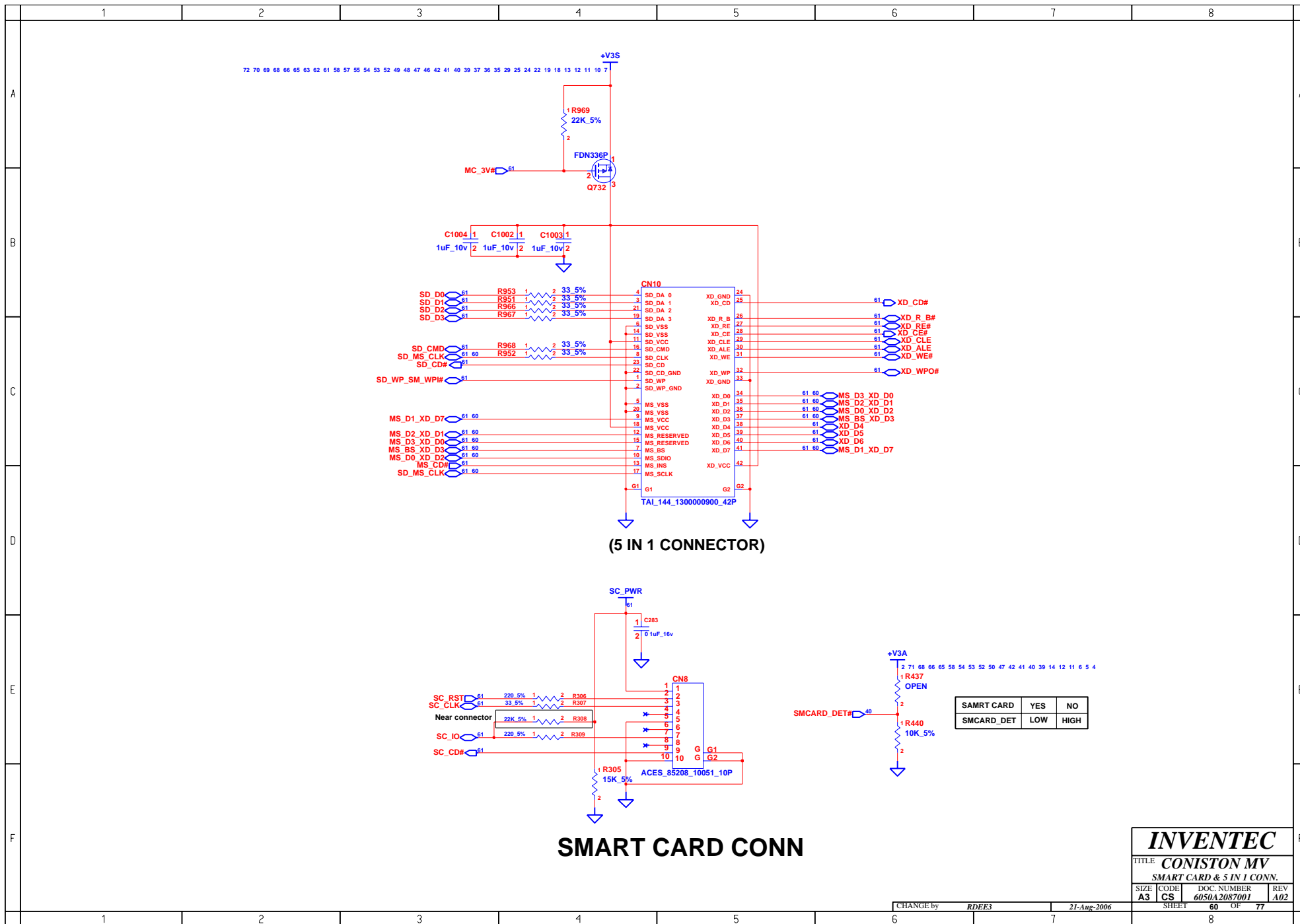
**INVENTEC**

TITLE  
CONISTON MV  
PC CARD & EXPRESS CARD CONN

SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02
------------	------------	-----------------------------	------------

CHANGE by RDEE3 21-Aug-2006

SHEET 59 OF 77



## SMART CARD CONN

**INVENTEC**

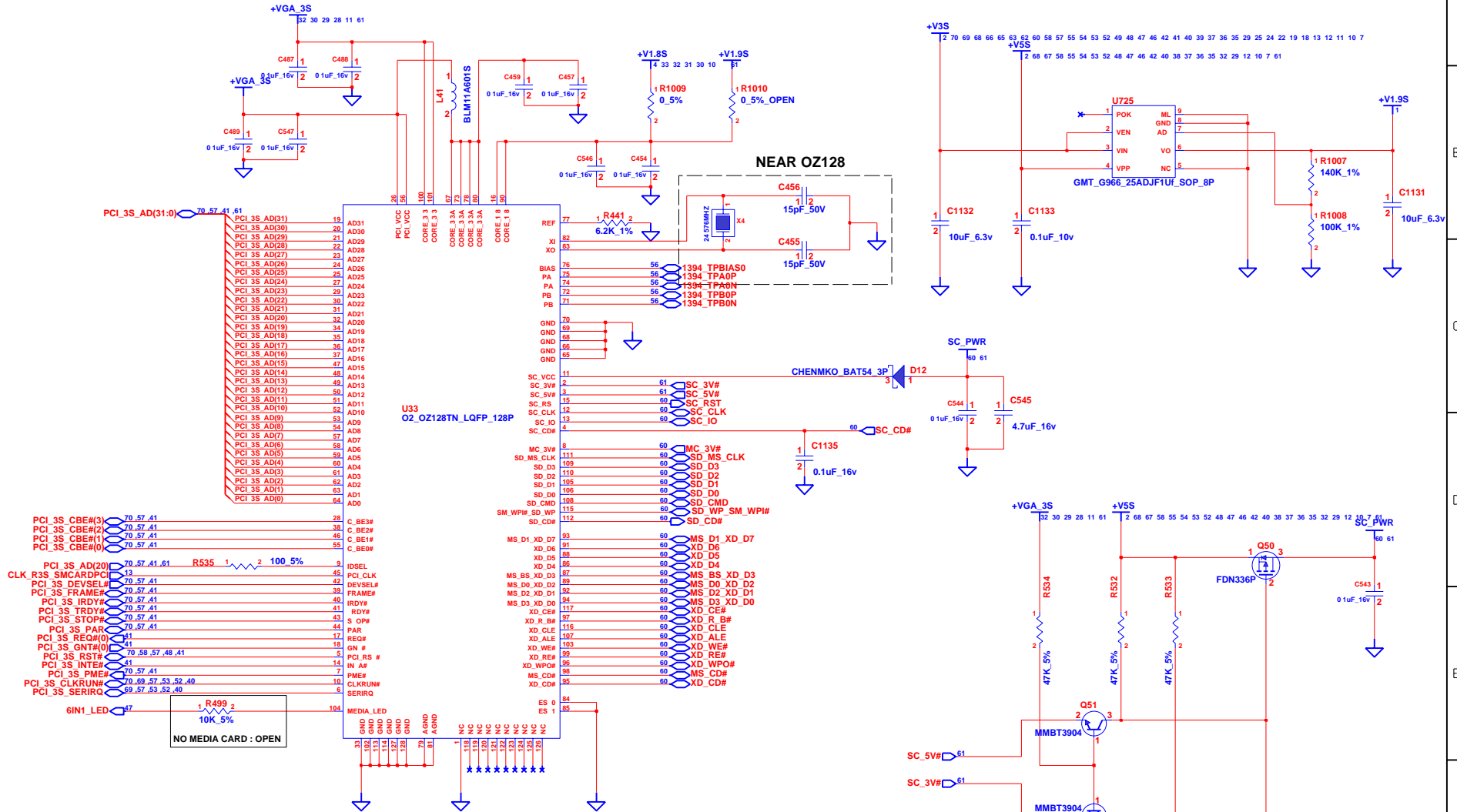
TITLE: **CONISTON MV**  
SMART CARD & 5 IN 1 CONN.

SIZE	CODE	DOC. NUMBER	REV
A3	CS	6050A2087001	A02

CHANGE by: RDEE3 21-Aug-2006

SHEET 60 OF 77

NOTE: +V1.8S NEED POWER ON FASTER THAN +V3S

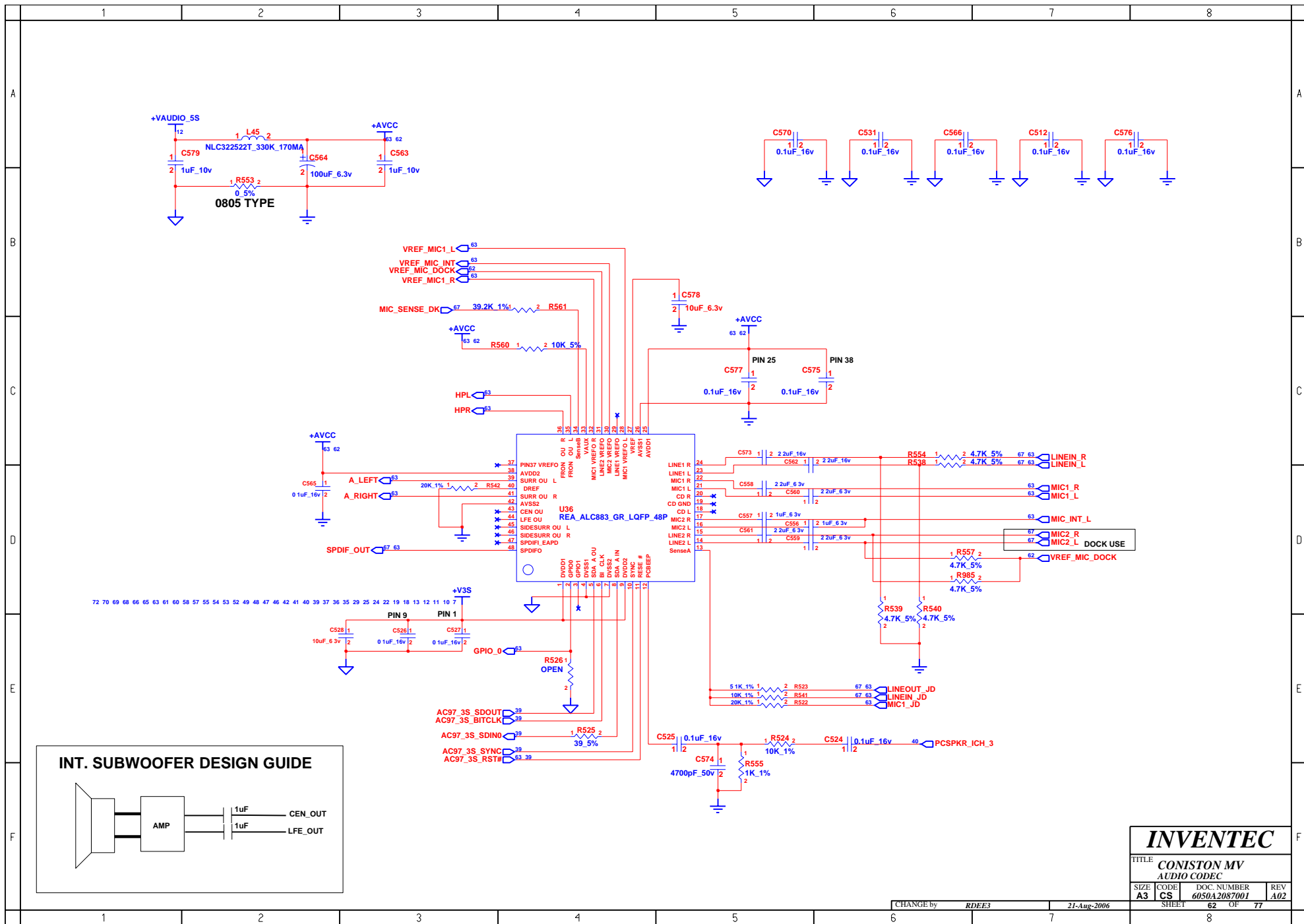


**INVENTEC**

TITLE: CONISTON MV SMART CARD IC & SC POWER			
SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02

CHANGE by RDEE3 21-Aug-2006

SHEET 61 OF 77



**INVENTEC**

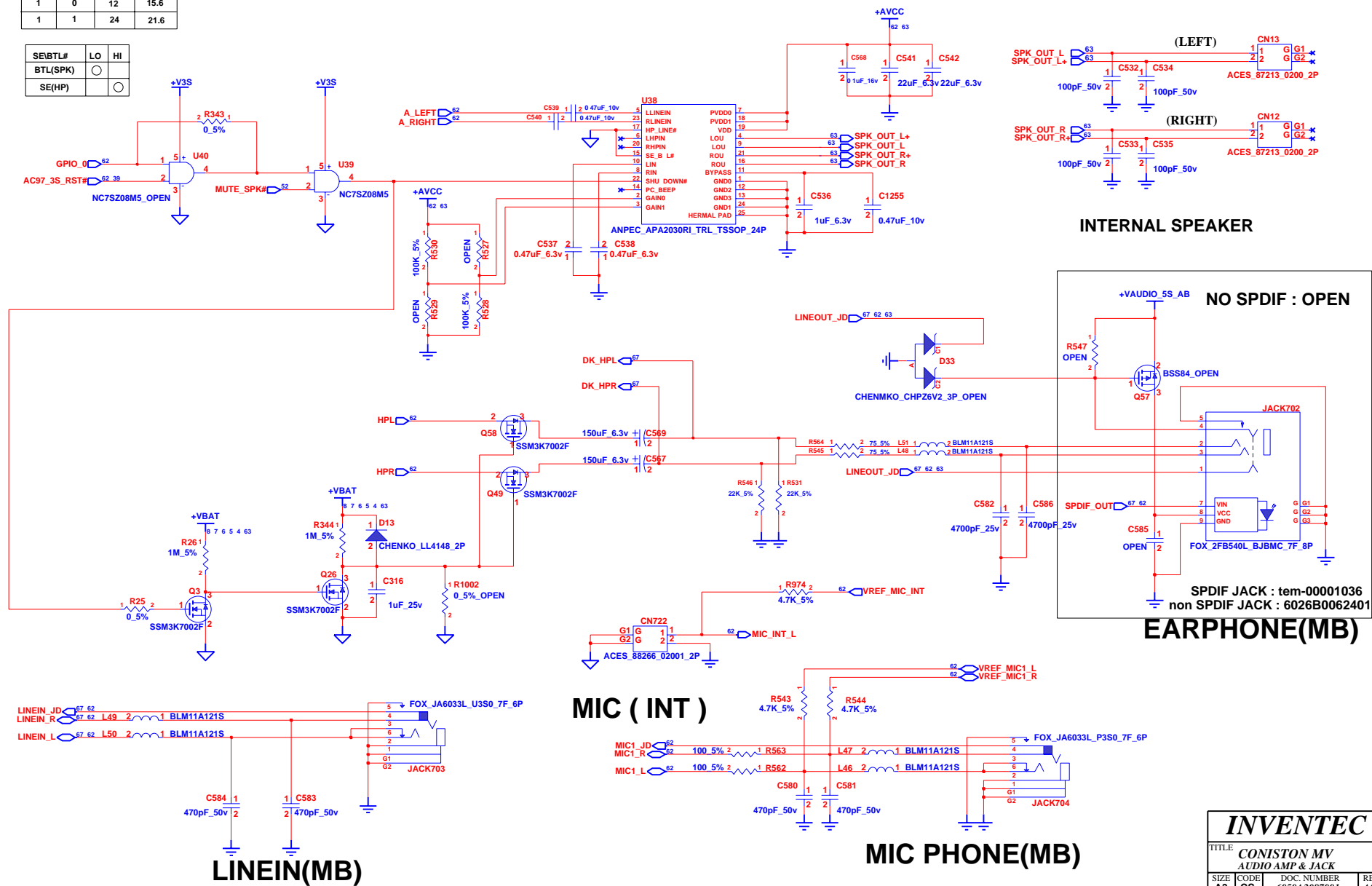
TITLE CONISTON MV AUDIO CODEC			
SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02

CHANGE by RDEE3 21-Aug-2006

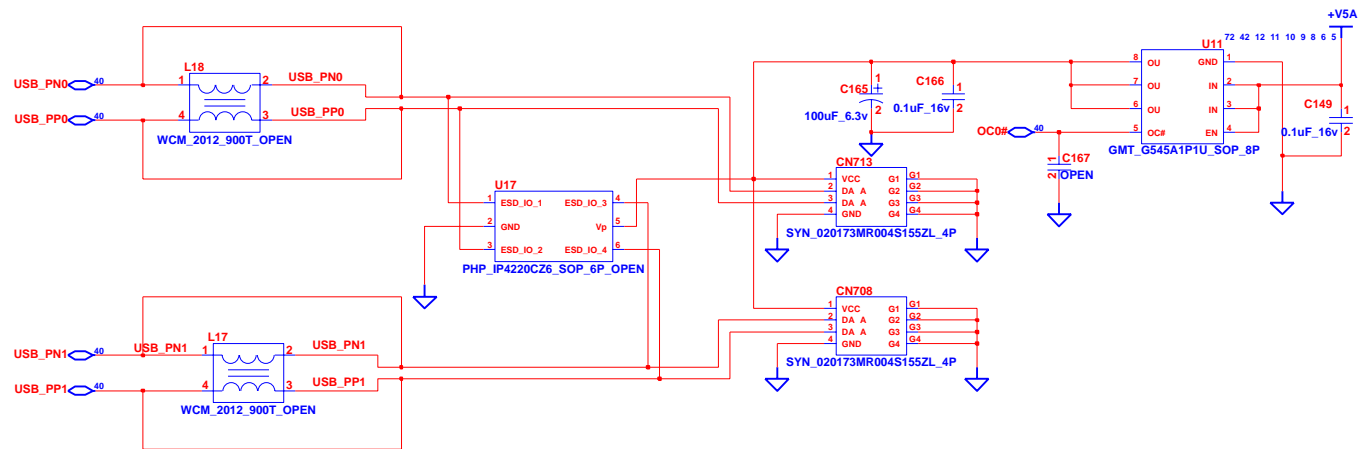
SHEET 62 OF 77

GAIN0	GAIN1	TI(dB)	APA(dB)
0	0	2	6
0	1	6	10
1	0	12	15.6
1	1	24	21.6

SEVBTL#	LO	HI
BTL(SPK)	<input type="radio"/>	<input type="radio"/>
SE(HP)	<input type="radio"/>	<input type="radio"/>



INVENTEC			
TITLE: CONISTON MV AUDIO AMP & JACK			
SIZE: A3	CODE: CS	DOC. NUMBER: 6050A2087001	REV: A02
CHANGE by: RDEE3		21-Aug-2006	
SHEET: 63		OF: 77	



## USB PORT 0 & 1 USE IN MAIN BOARD

**INVENTEC**

TITLE  
**CONISTON MV  
USB\_PORT**

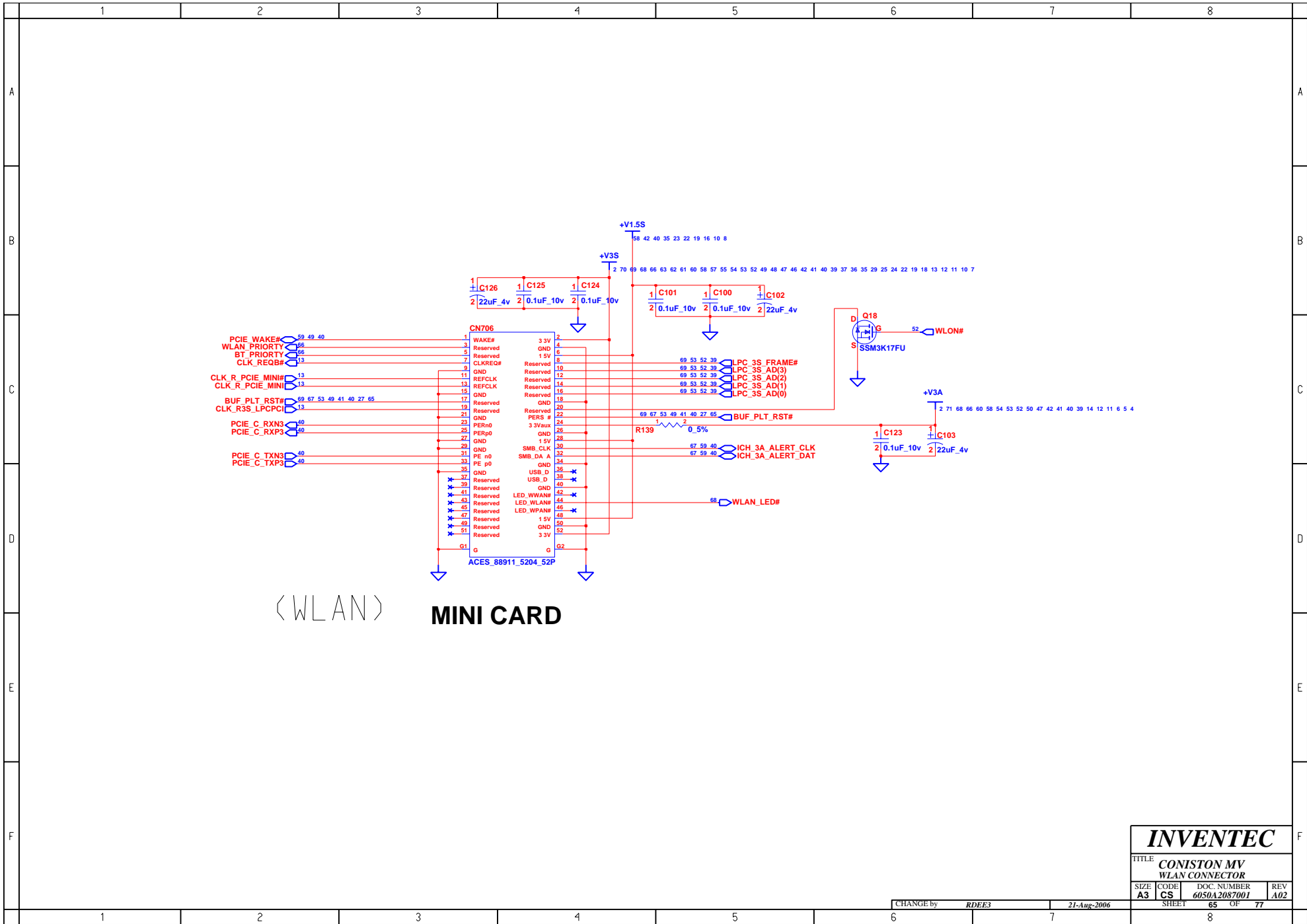
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>6050A2087001</b>	REV <b>A02</b>
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CHANGE by **RDEE3** 21-Aug-2006

SHEET **64** OF **77**

8





(WLAN)

MINI CARD

INVENTEC

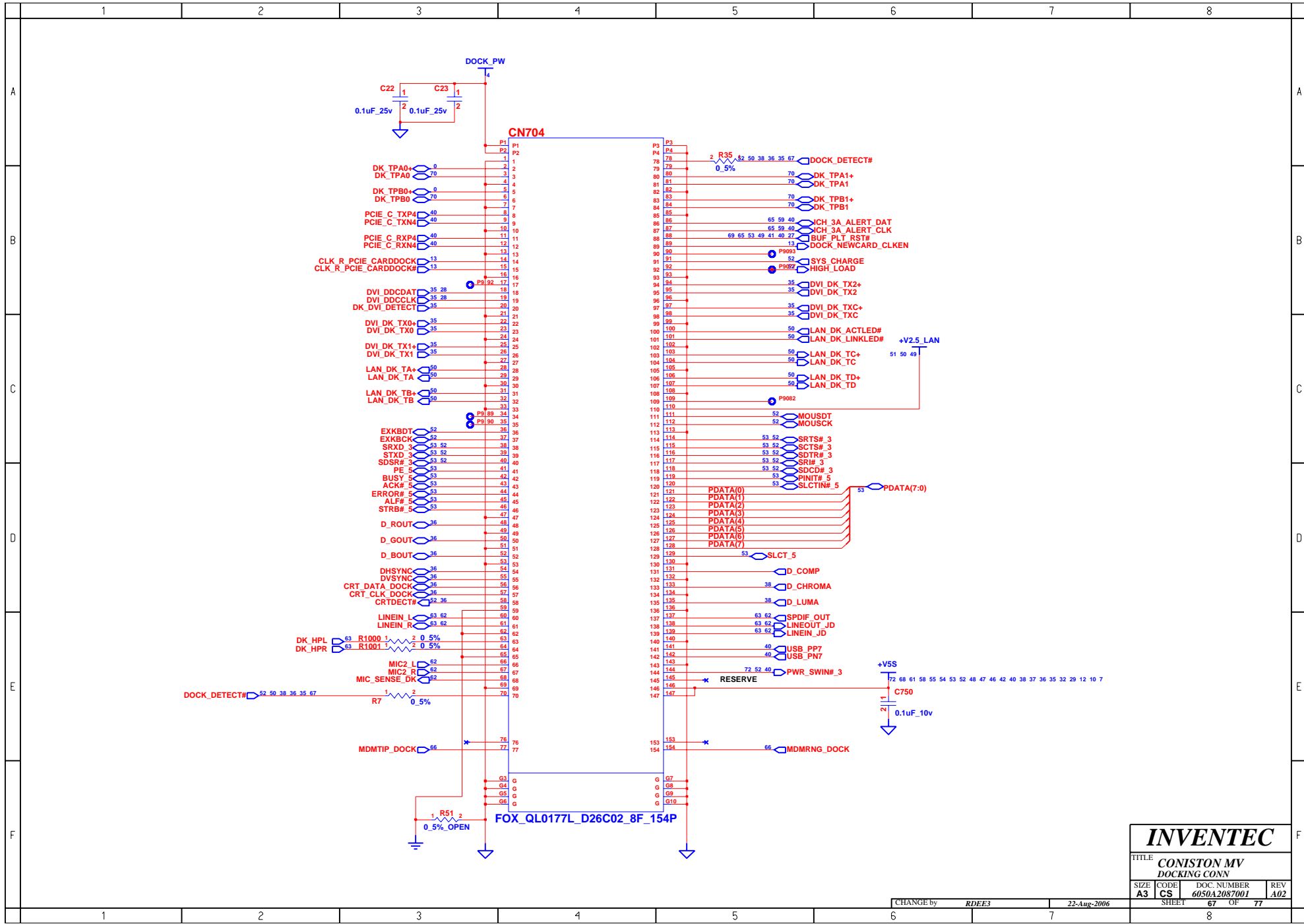
TITLE  
CONISTON MV  
WLAN CONNECTOR

SIZE CODE DOC. NUMBER REV  
A3 CS 6050A2087001 A02

CHANGE by RDEE3 21-Aug-2006

SHEET 65 OF 77





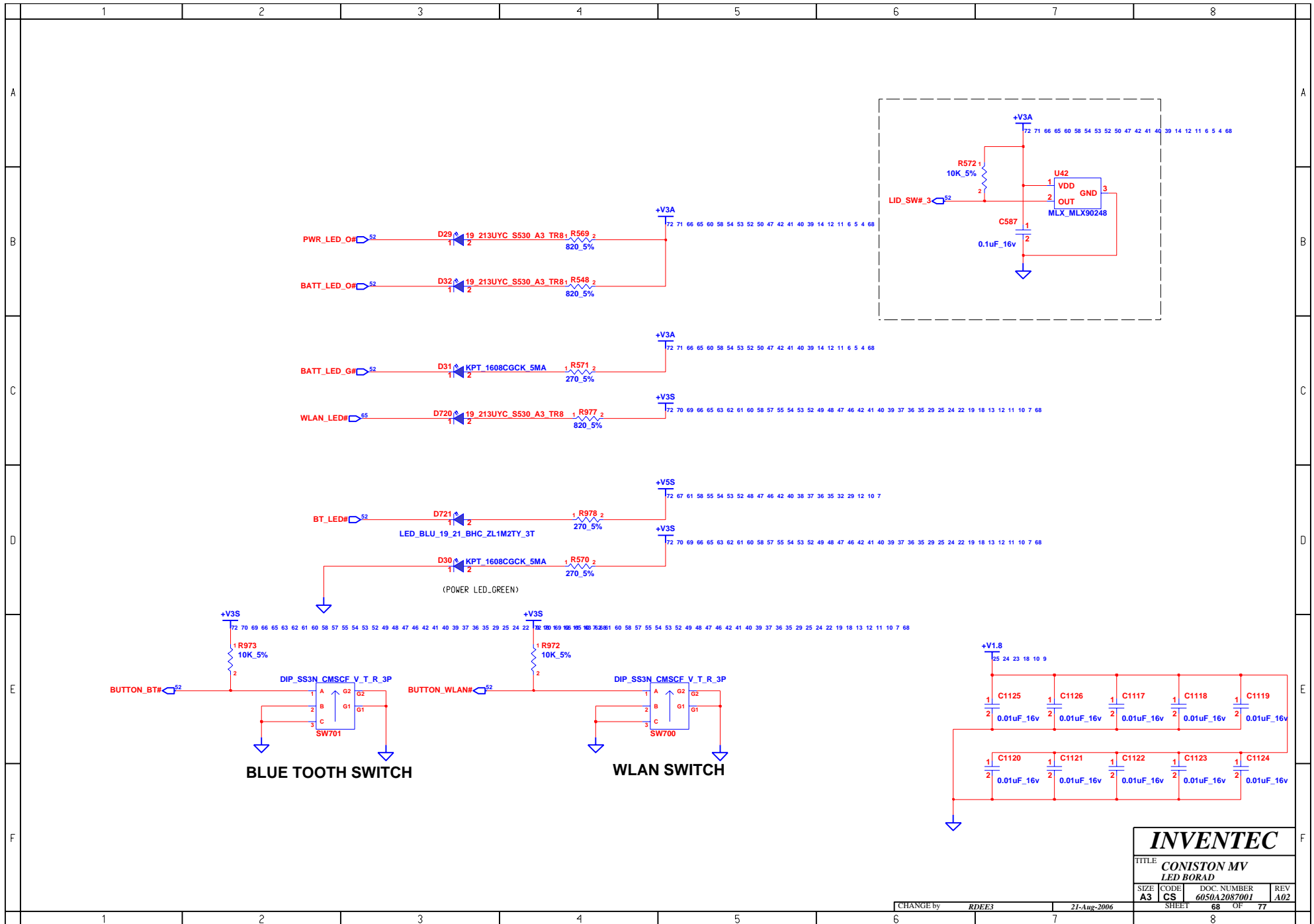
**INVENTEC**

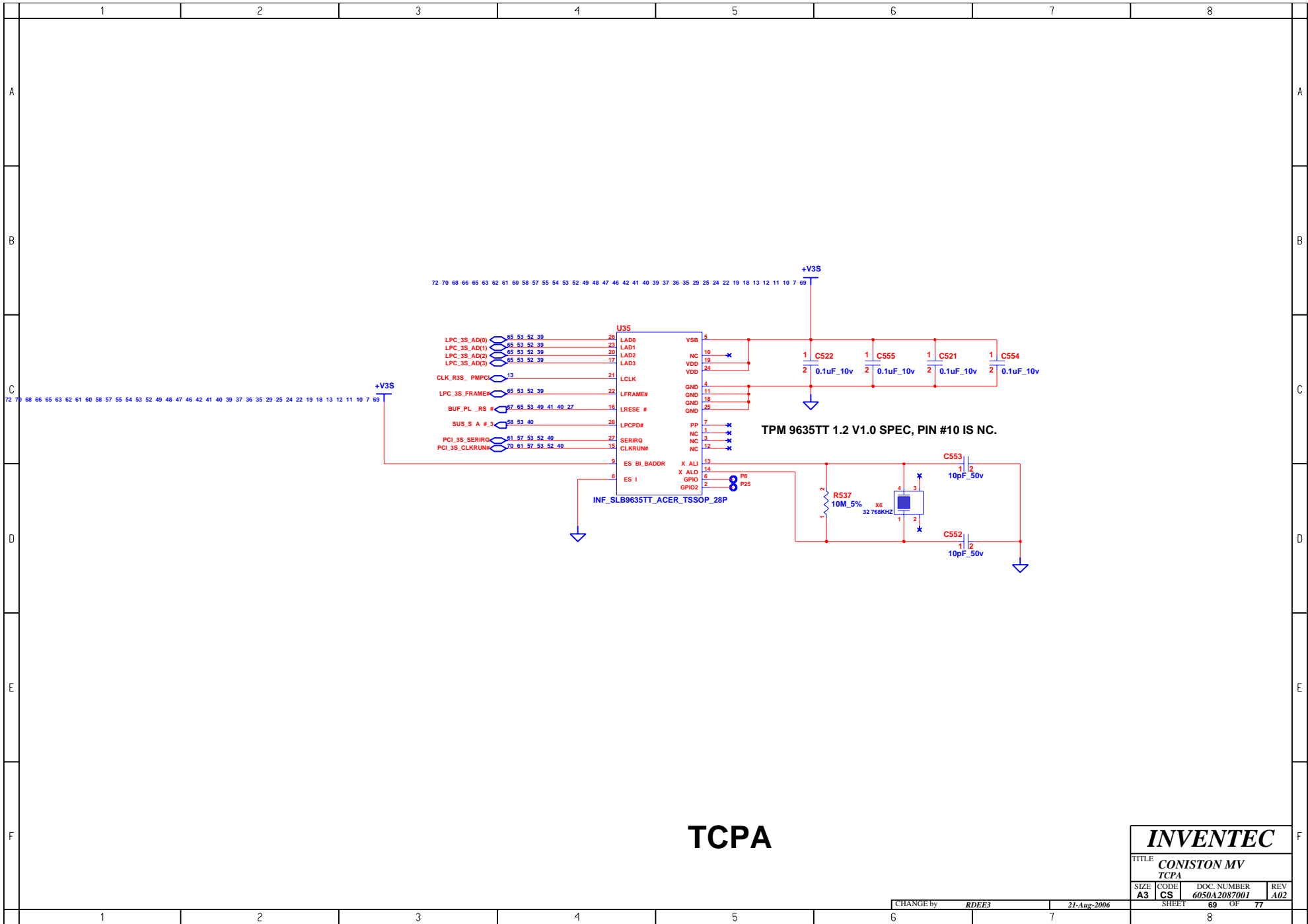
TITLE  
**CONISTON MV  
DOCKING CONN**

SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>6050A2087001</b>	REV <b>A02</b>
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CHANGE by **RDEE3** 22-Aug-2006

SHEET **67** OF **77**





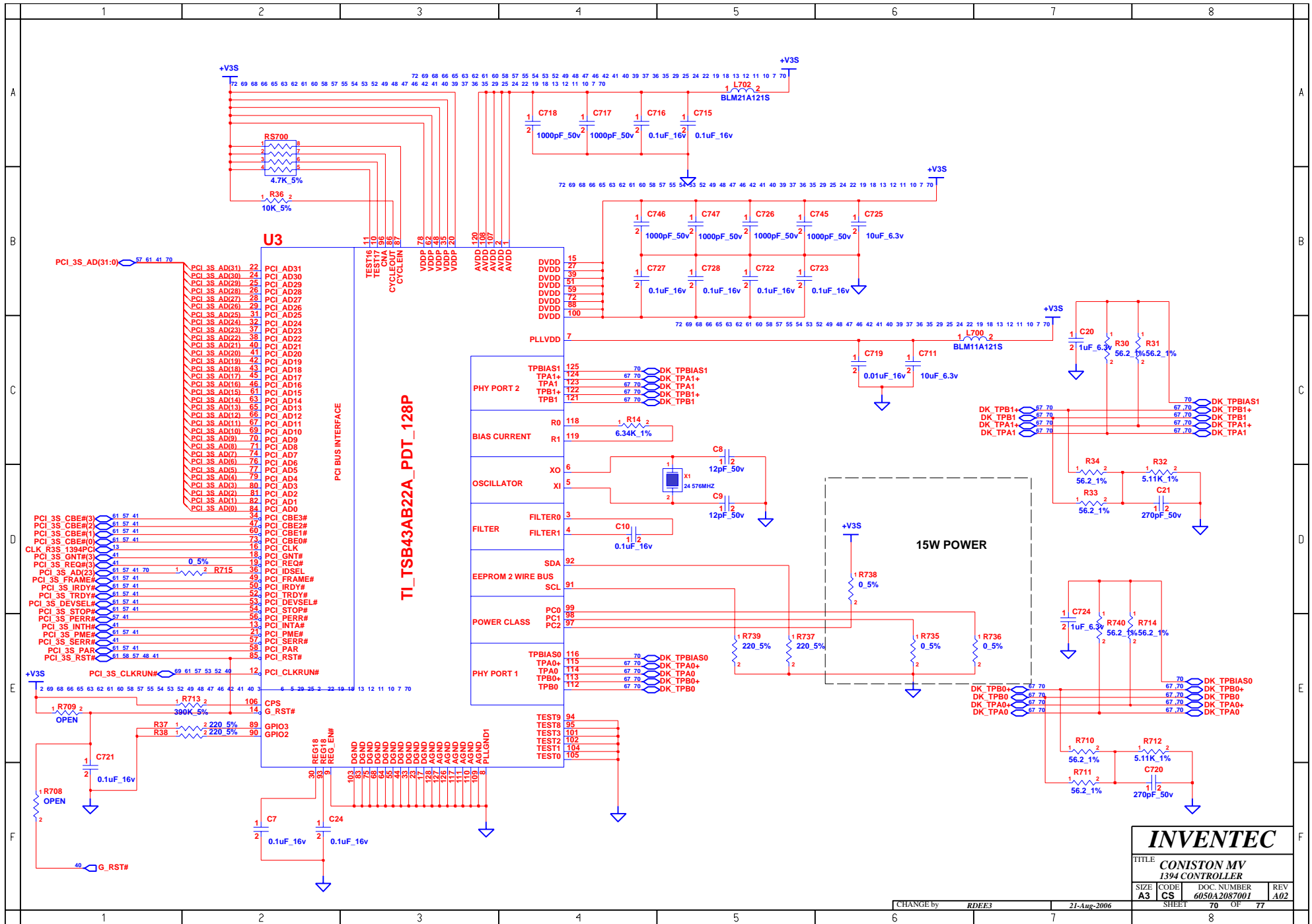
INVENTEC

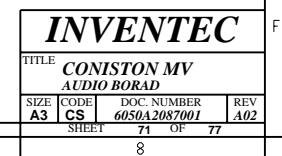
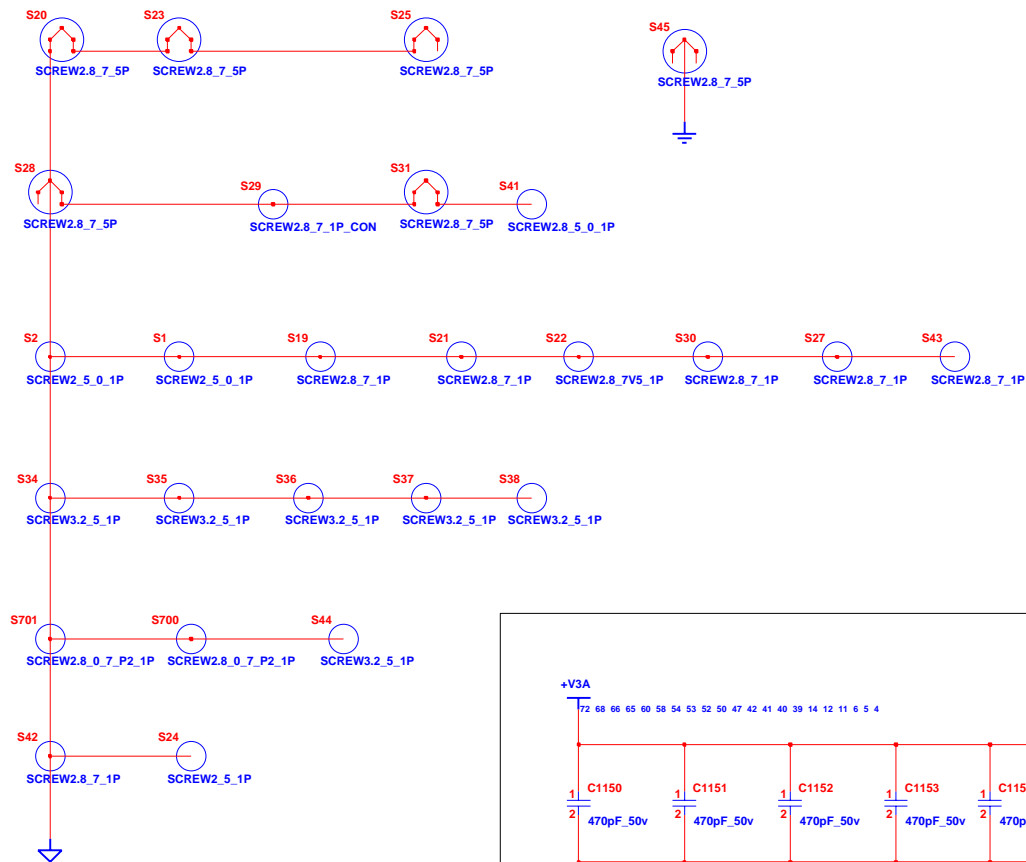
TITLE  
CONISTON MV  
TCPA

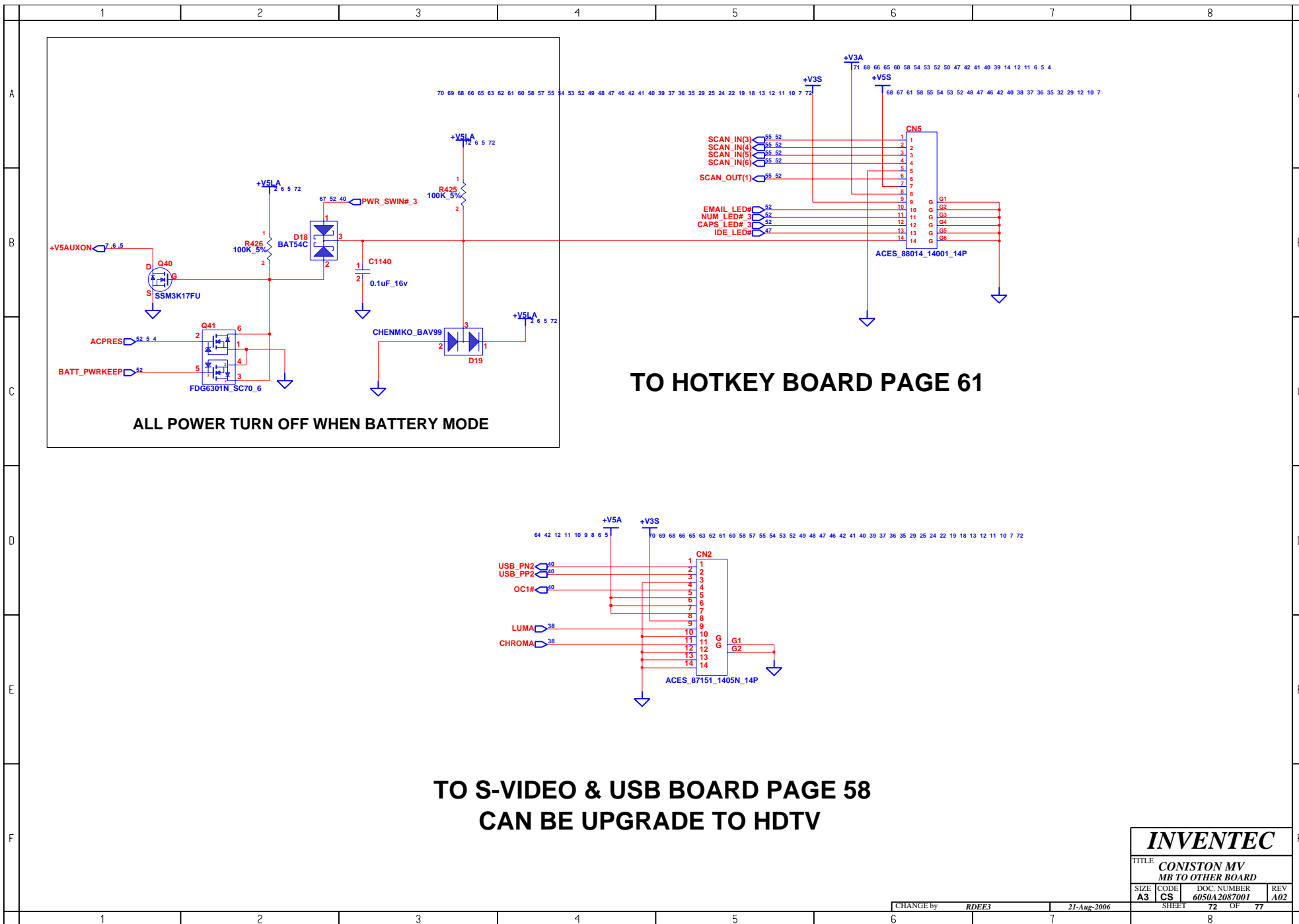
SIZE A3	CODE CS	DOC. NUMBER 6050A2087001	REV A02
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CHANGE by RDEE3 21-Aug-2006

SHEET 69 OF 77





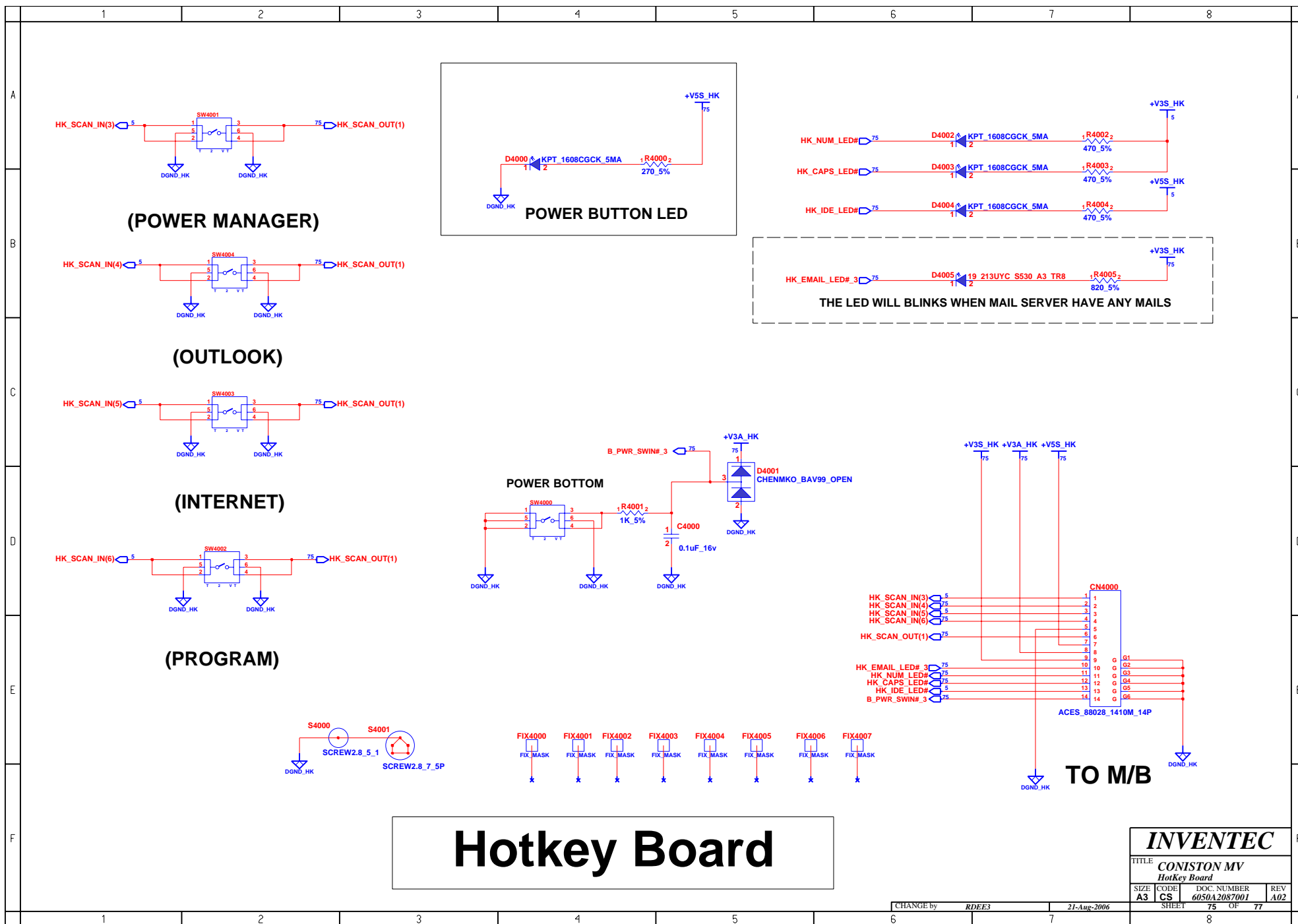




	1	2	3	4	5	6	7	8	
A									A
B									B
C									C
D									D
E									E
F									F
						CHANGE by <i>RDEE3</i>		21-Aug-2006	
1	2	3	4	5	6	7	8		

<b>INVENTEC</b>			
TITLE <i>CONISTON MV</i> <i>Finger PRINTER Board</i>			
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>6050A2087001</b>	REV <b>A02</b>
SHEET <b>73</b>		OF <b>77</b>	





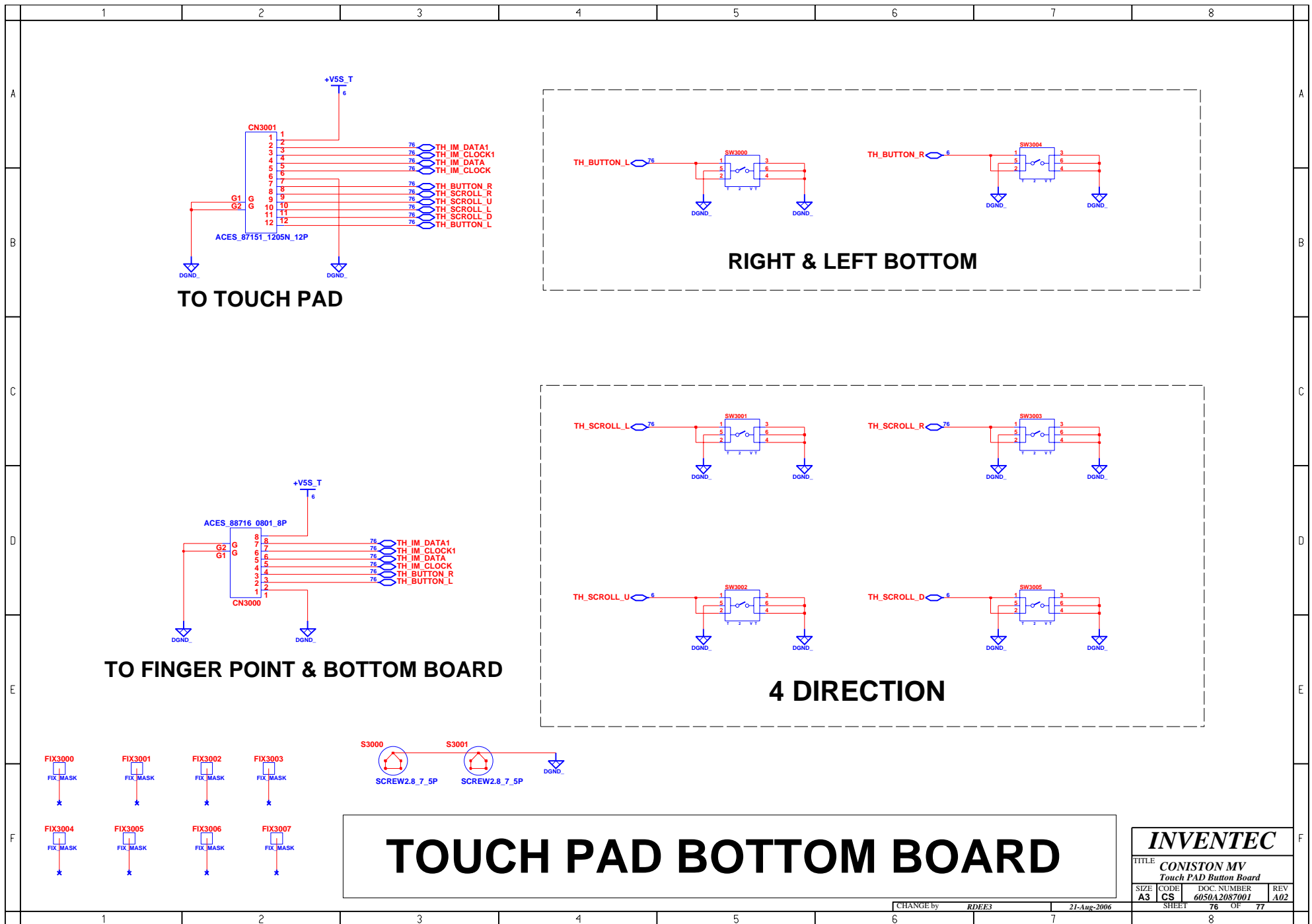
**INVENTEC**

TITLE  
**CONISTON MV**  
HotKey Board

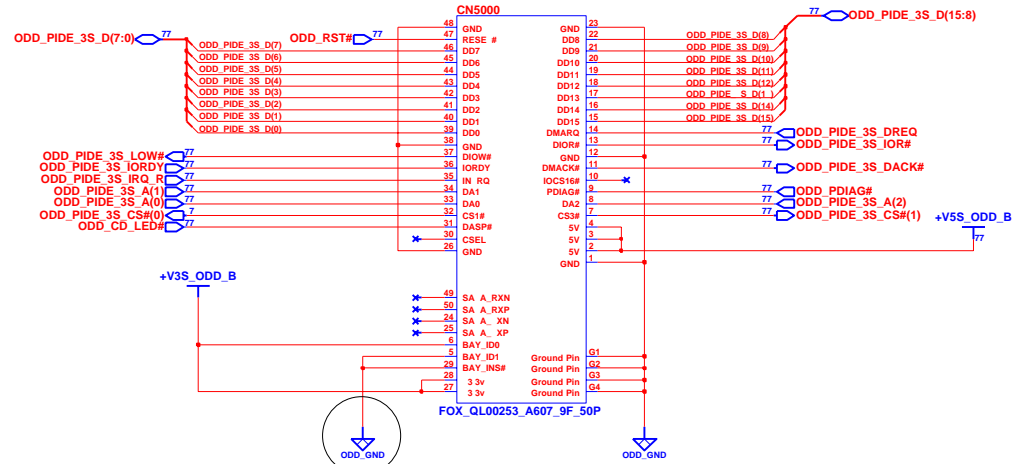
SIZE <b>A3</b>	CODE <b>CS</b>	DOC. NUMBER <b>6050A2087001</b>	REV <b>A02</b>
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CHANGE by **RDEE3** 21-Aug-2006

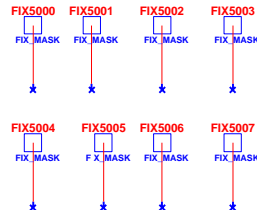
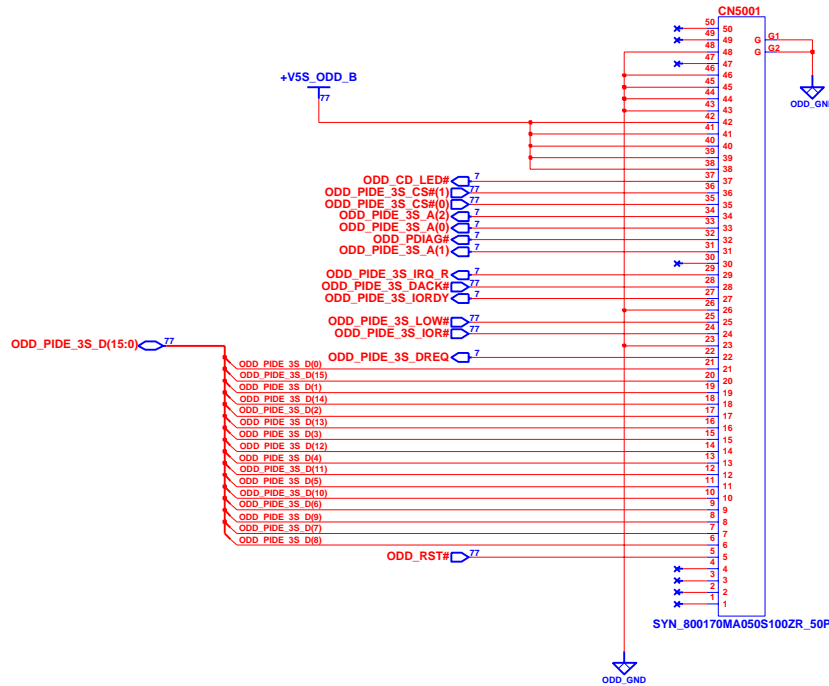
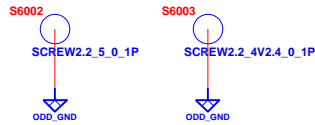
SHEET **75** OF **77**



BAY_ID0	BAY_ID1	DEVICE
0	0	RESERVE
0	1	PATA HDD
1	0	PATA ODD
1	1	SATA HDD



WHEN SYSTEM "BAY INS#" GET A "LOW"  
SYSTEM WILL TURN ON ODD POWER.



INVENTEC			
TITLE: CONISTON MV Multi-Bay ODD Board			
SIZE: A3	CODE: CS	DOC. NUMBER: 6050A2087001	REV: A02
SHEET 77 OF 77			

CHANGE by: RDEE3 21-Aug-2006