

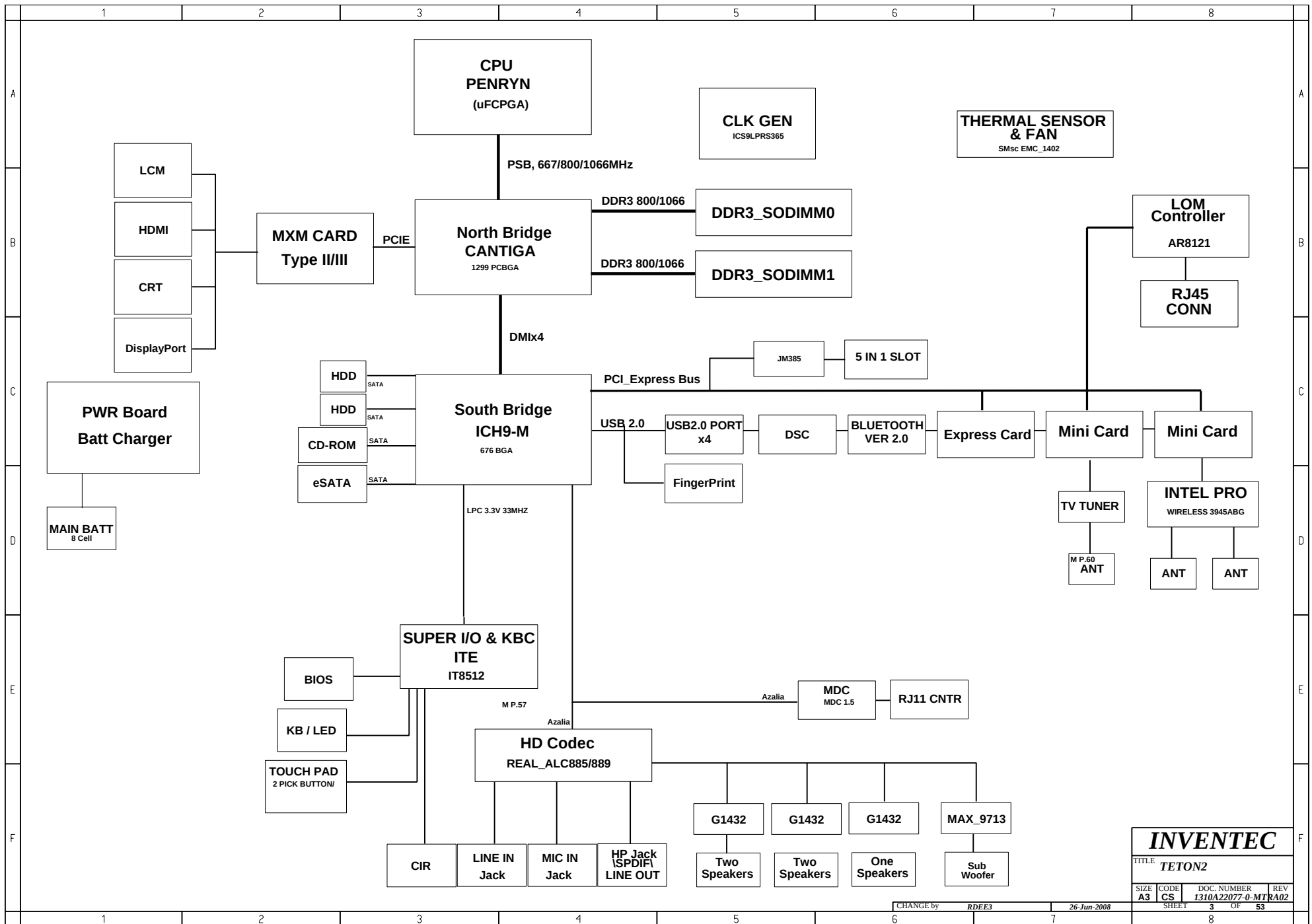
	1	2	3	4	5	6	7	8		
A										A
B										B
C										C
D										D
E										E
F										F

TETON2
DDRIII-Pre MV BUILD
2008.06.18

DRAWER	EE	DATE	POWER	DATE
DESIGN				
CHECK				
RESPONSIBLE				
SIZE = 3		VER :		
FILE NAME : XXXX-XXXXXX-XX				
P/N	XXXXXXXXXXXX			

TITLE		INVENTEC		
TETON2				
SIZE	CODE	DOC. NUMBER	REV	
A3	CS	1310A22077-0-MTR	A02	
SHEET	1	OF	53	

	1	2	3	4	5	6	7	8	
A	TABLE OF CONTENTS								A
B	PAGE		PAGE			PAGE			B
	MAINBOARD					I/O BOARD			
	1.COVER PAGE		40.SATA HDD&ODD			1.EXPRESS CARD CONN			
	2.INDEX		41.USB CONN & eSATA			2.CARD READER CONTROLLER			
	3.BLOCK DIAGRAM		42.BLUE TOOTH & MDC CONN						
C	4.POWER SEQUENCE BLOCK		43.KBC			HOTKEY BOARD			C
	5-12.SYSTEM POWER		44.AUDIO CODEC			1.HOTKEY BOARD			
	13.CLOCK GENERATOR		45.AUDIO JACK						
	14-17.CPU Merom		46.AUDIO AMP						
	18.FAN & THERMAL CONTROLLER		47.AUDIO AMP & SPK CONN						
	19-25.N/B Crestline		48.SCREW						
D	26.DDR3 DIMM0		49.MB TO OTHER B CONN						D
	27.DDR3 DIMM1		50.USB BOARD						
	28.MXM CONN		51.POWER BUTTON BOARD						
	29.CRT CONN		52.TP BUTTON BOARD						
	30.HDMI & DP CONN		53.HINGE LED BOARD 1 & 2						
	31.LCD CONN								
E	32-36.S/B ICH8M								E
	37.LAN CONTROLLER								
	38.RJ45 CONN								
	39.MINI CARD								
F									F
CHANGE by						RDEE3		26-Jun-2008	
SIZE						A3		CODE CS	
DOC. NUMBER						1310AZ2077-0-MTR		REV A02	
SHEET						2		OF 53	
	1	2	3	4	5	6	7	8	

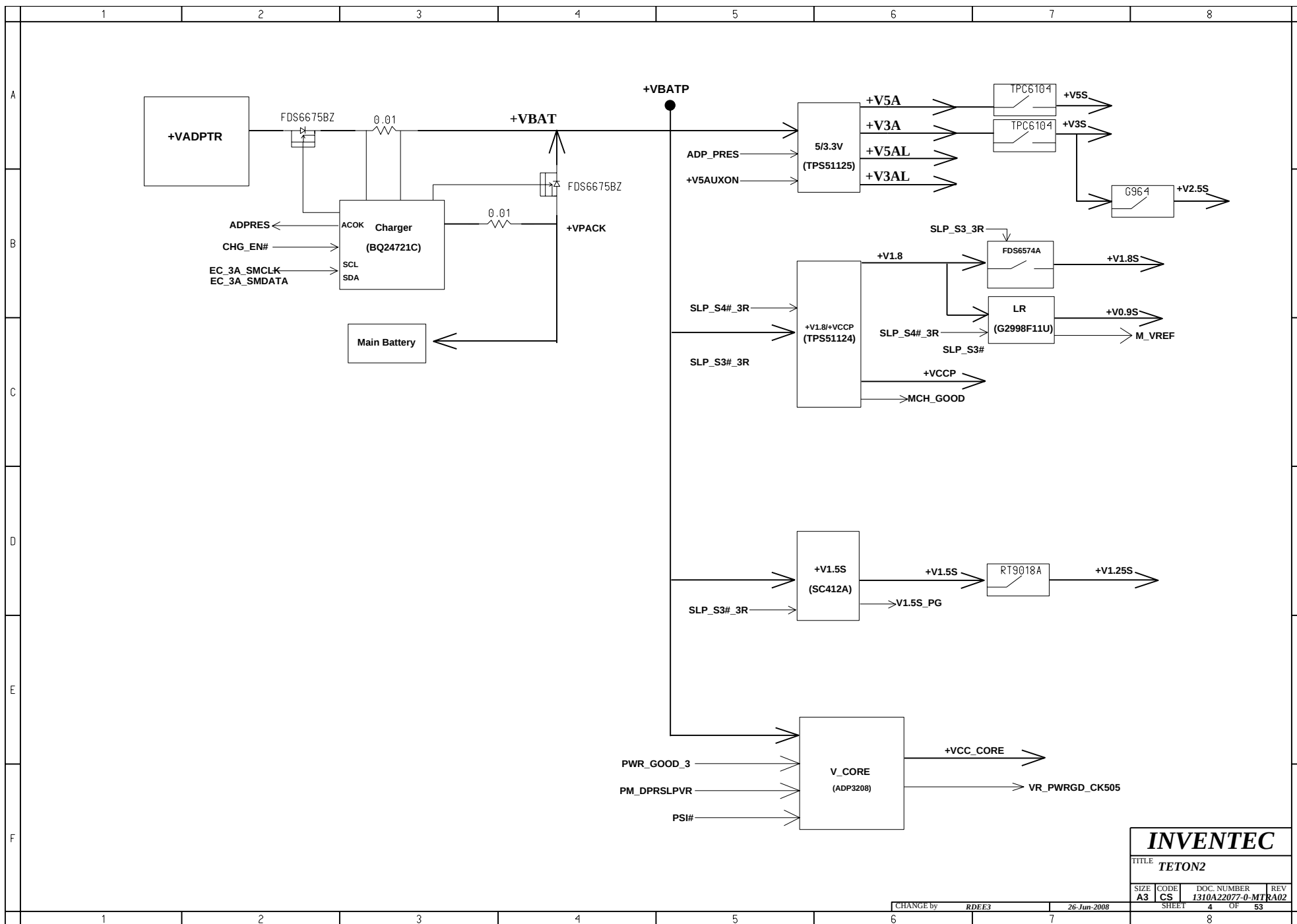


INVENTEC

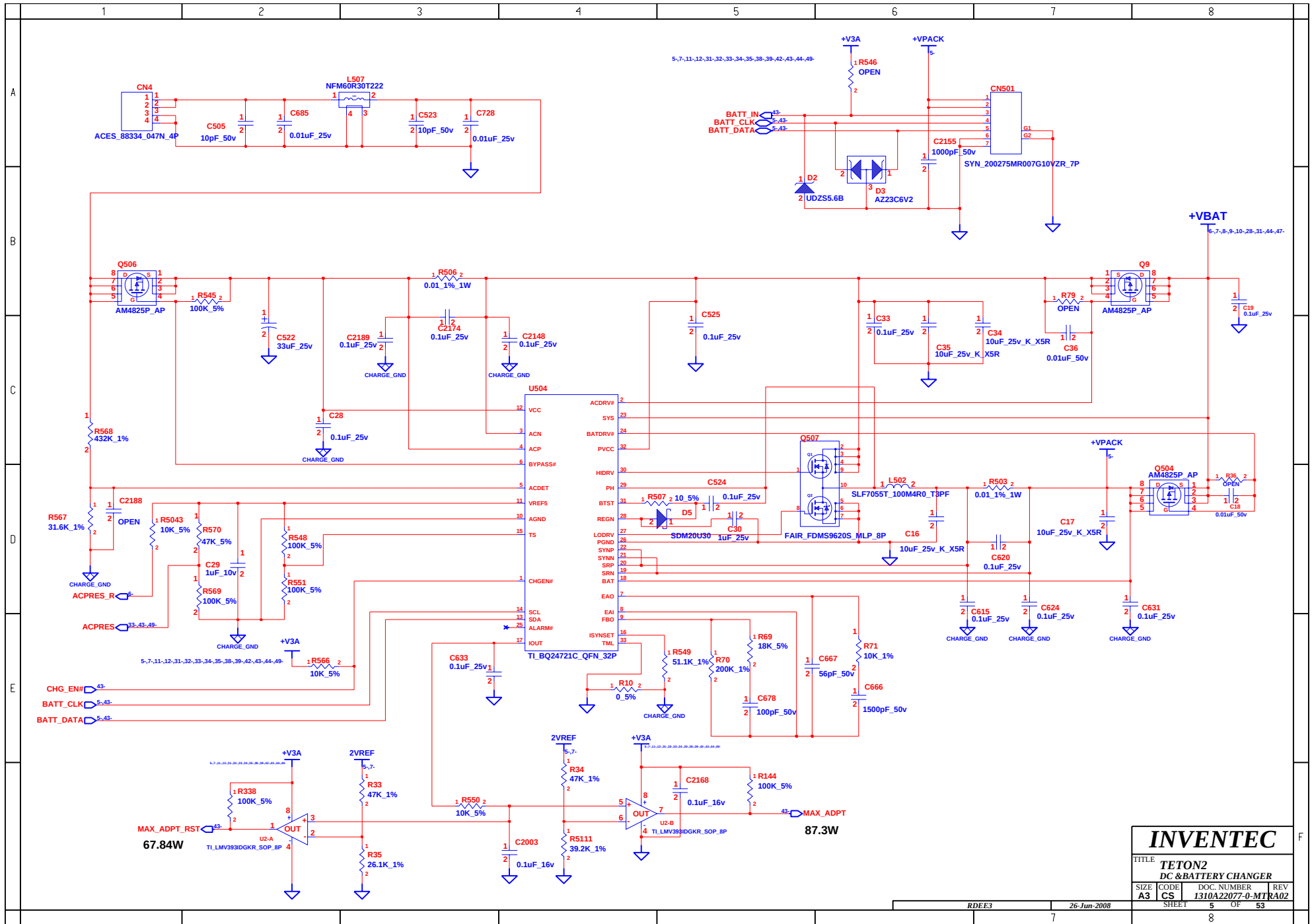
TITLE
TETON2

SIZE A3	CODE CS	DOC. NUMBER 1310AZ2077-0-MTR	REV RA02
SHEET 3		OF 53	

CHANGE by **RDEE3** 26-Jun-2008



INVENTEC			
TITLE TETON2			
SIZE A3	CODE CS	DOC. NUMBER 1310AZ2077-0-MTR	REV A02
CHANGE by RDEE3		26-Jun-2008	SHEET 4 OF 53



INVENTEC

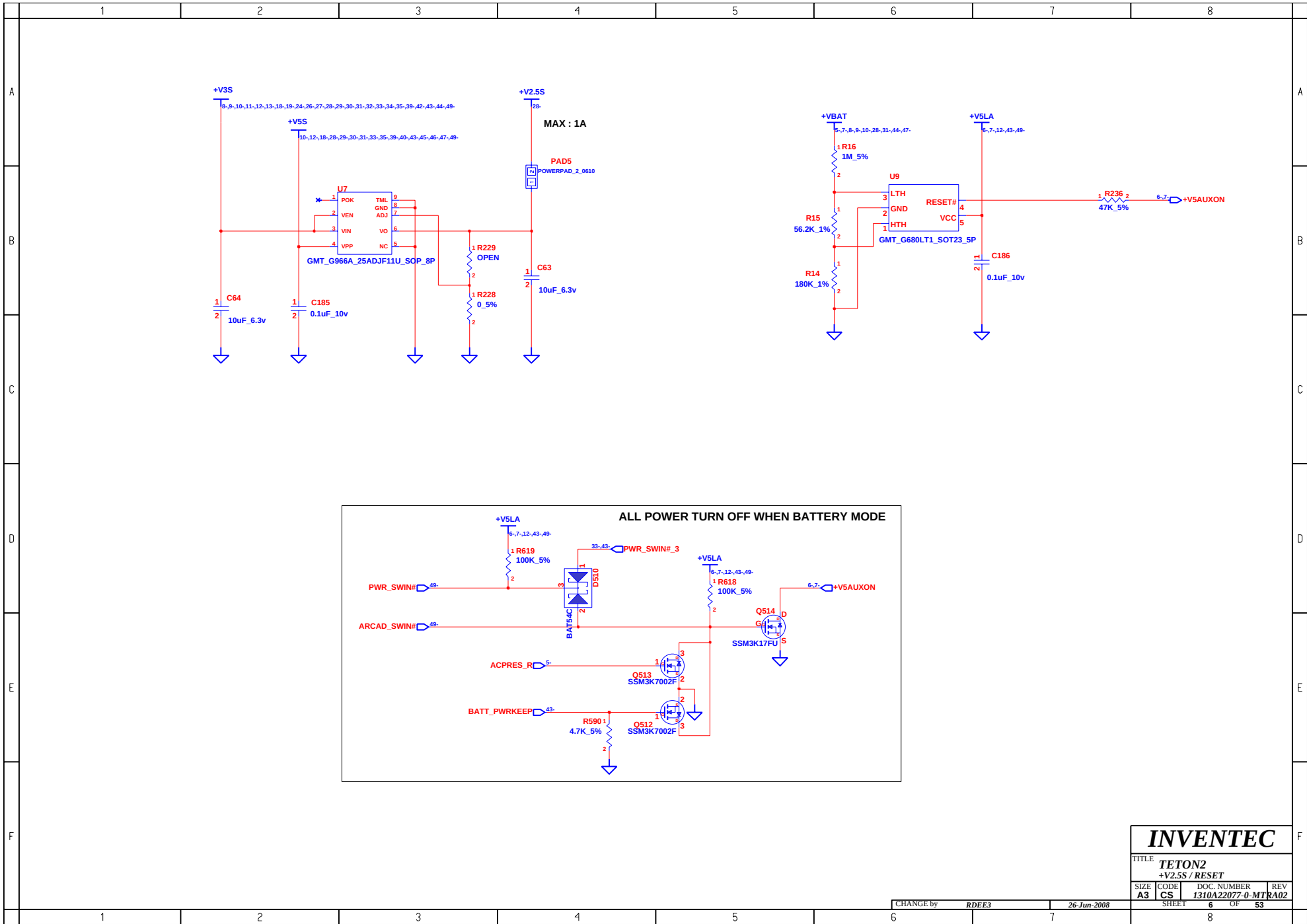
TITLE			
TETON2 DC & BATTERY CHARGER			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ2077-0-MT	RA02
SHEET		5	OF 53

RDEE3

26-Jun-2008

7

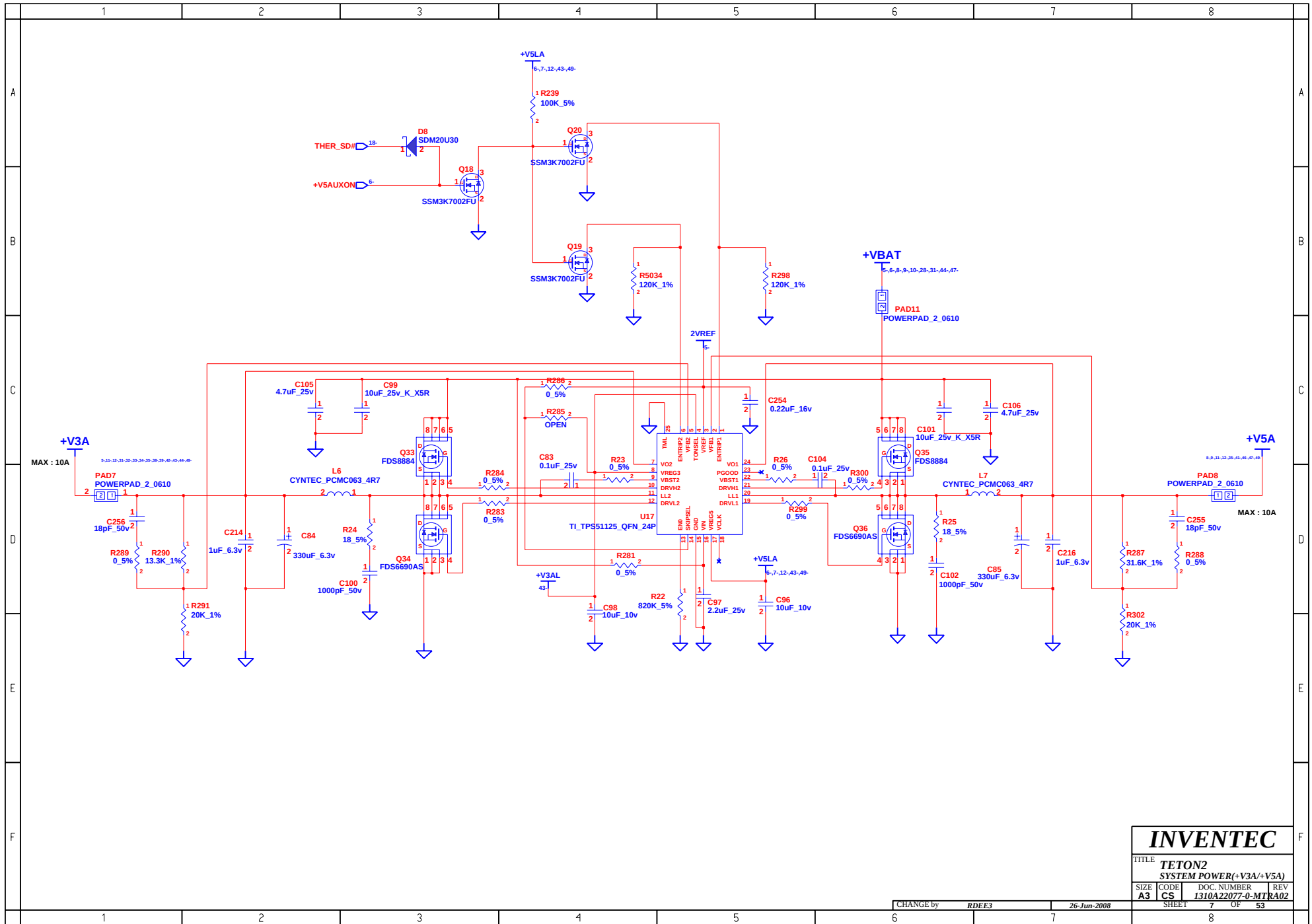
8

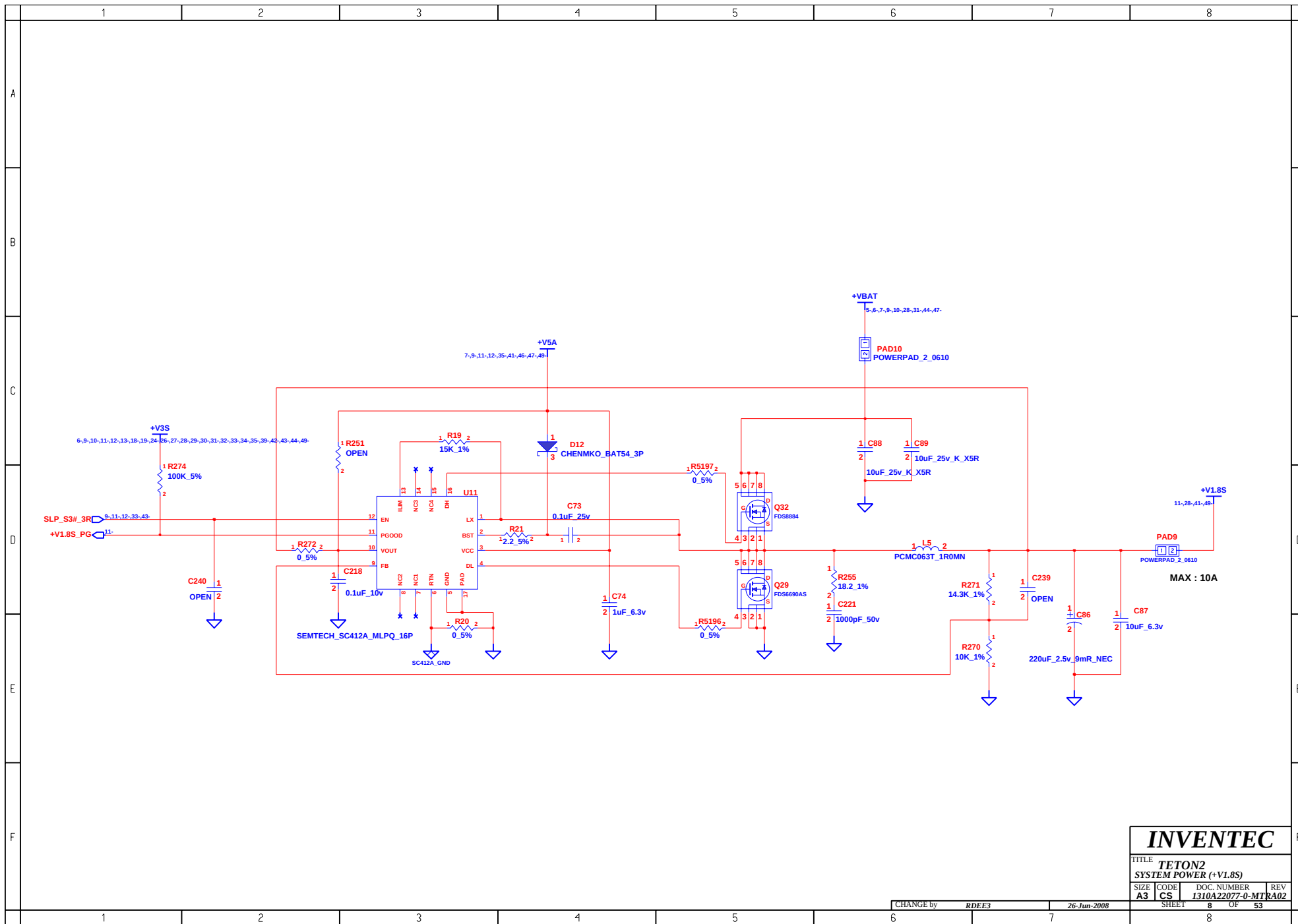


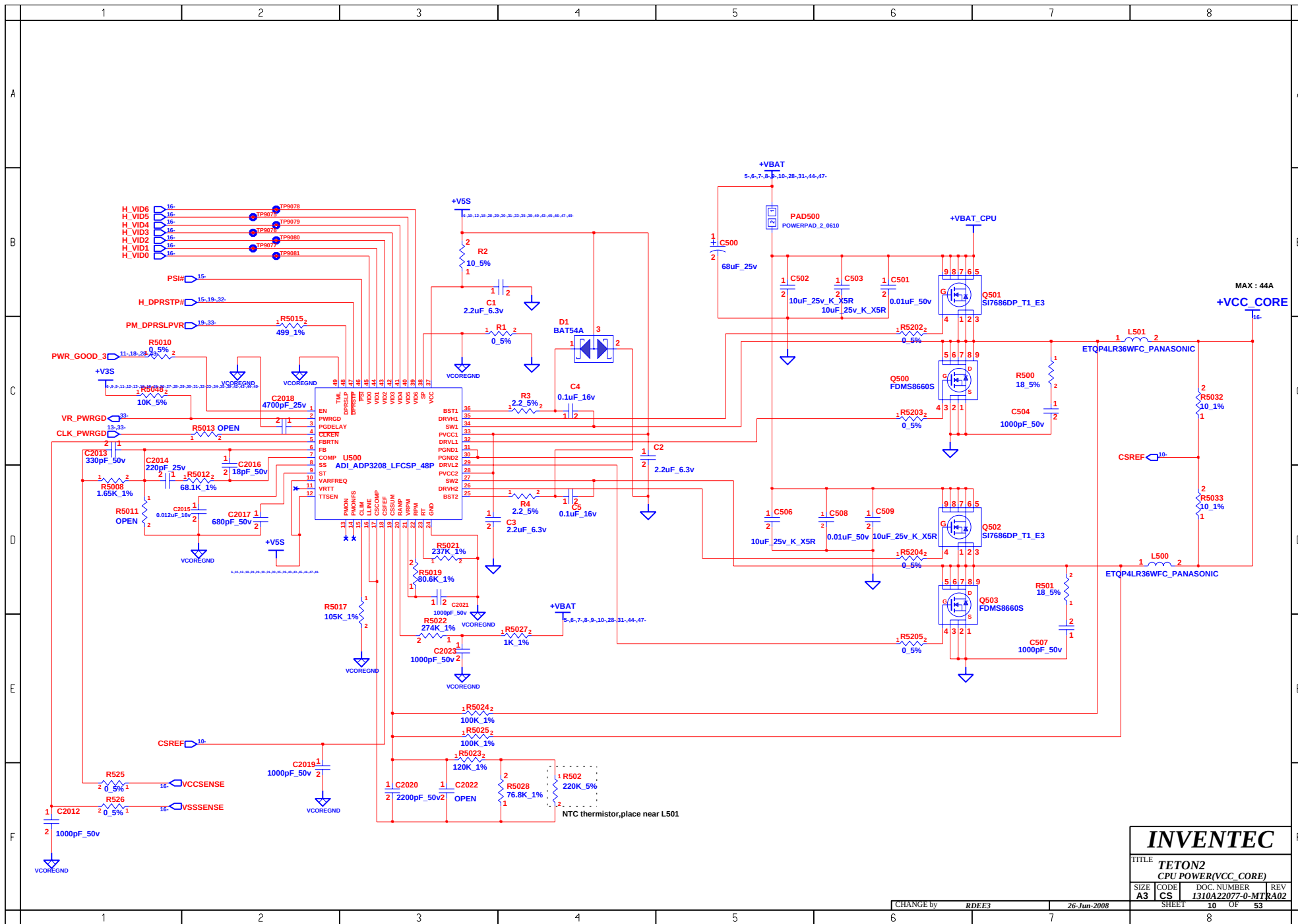
INVENTEC

TITLE			
TETON2			
+V2.5S / RESET			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310A22077-0-MTR	RA02
SHEET		6	OF 53

CHANGE by RDEE3 26-Jun-2008



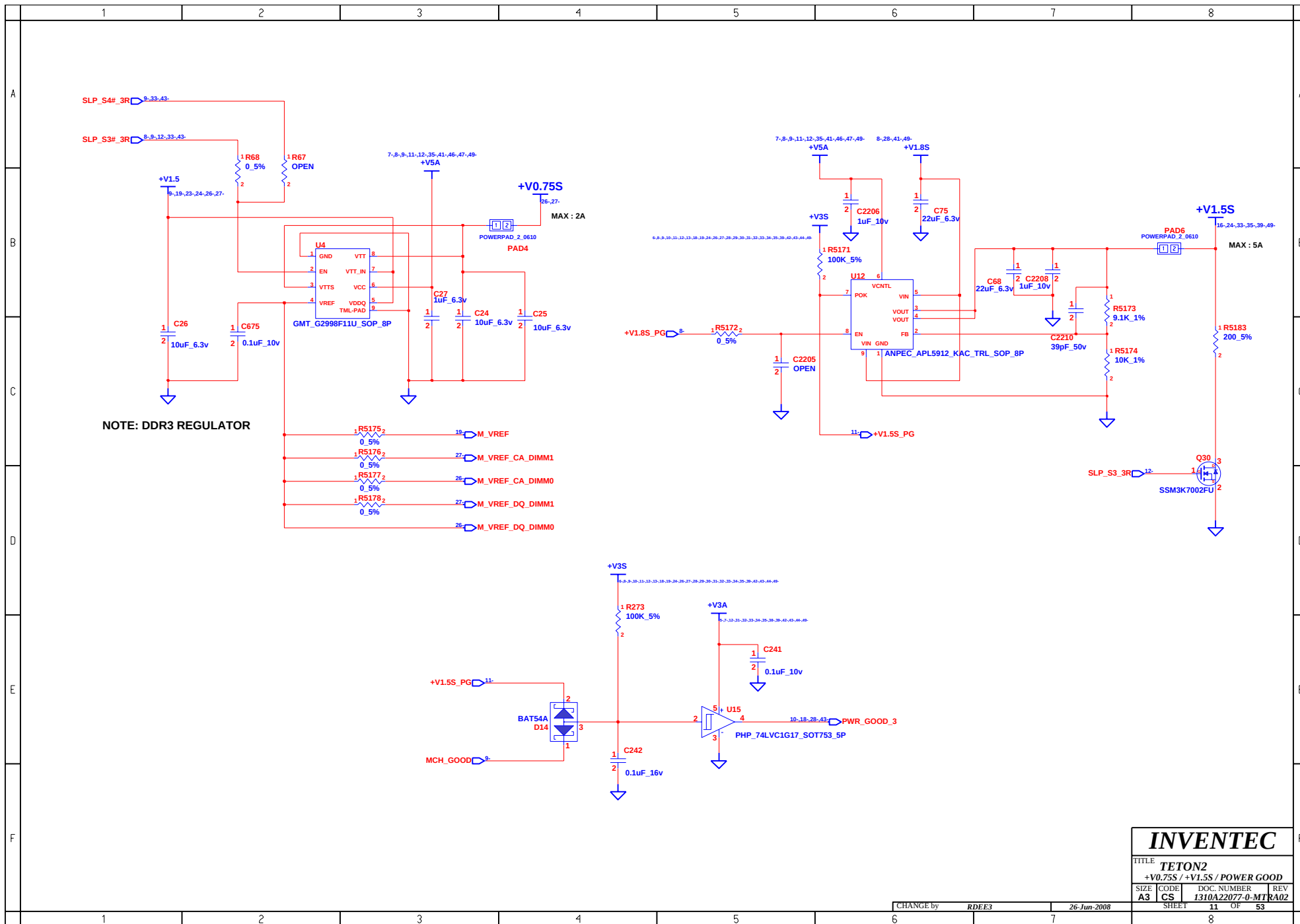




INVENTEC

TITLE TETON2 CPU POWER(VCC_CORE)			
SIZE A3	CODE CS	DOC. NUMBER I310A22077-0-MT	REV RA02
SHEET 10		OF 53	

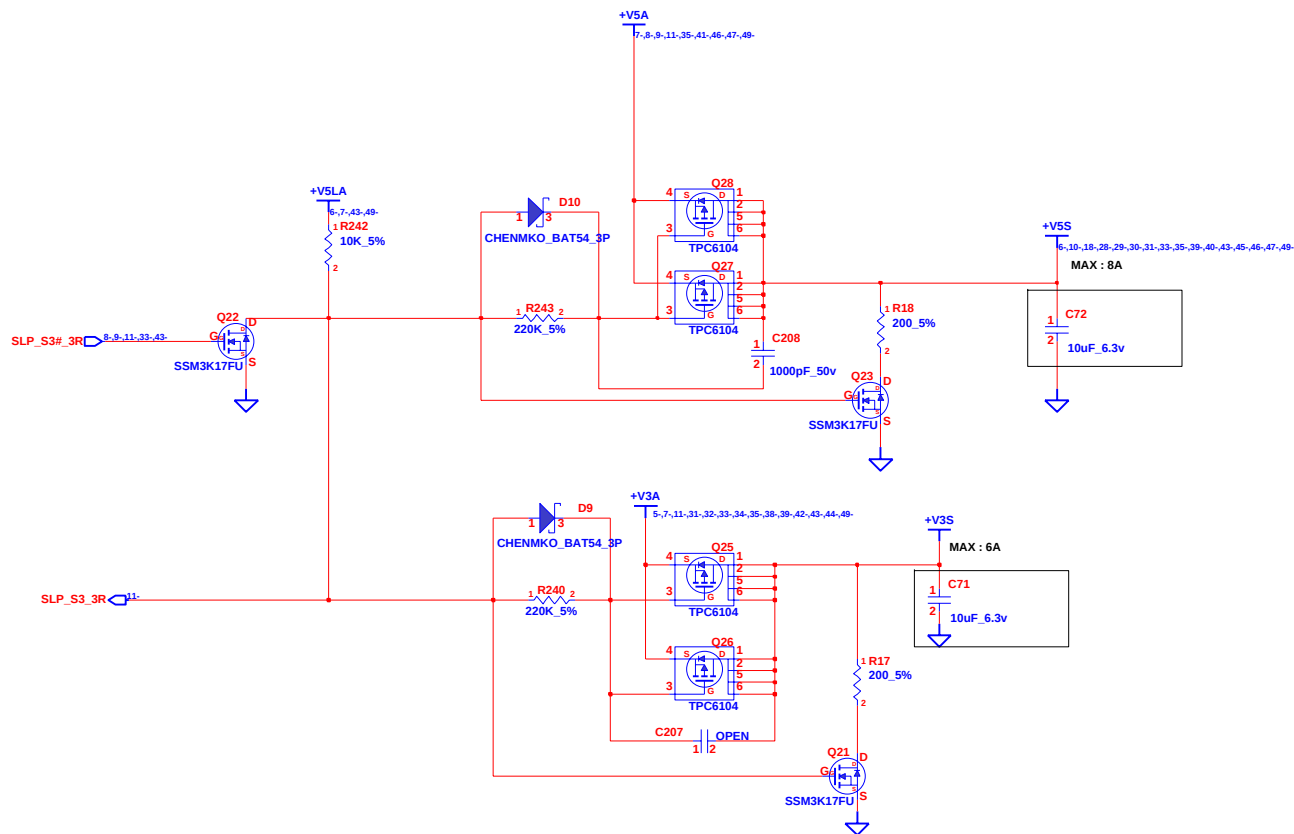
CHANGE by **RDEE3** 26-Jun-2008



INVENTEC

TITLE TETON2			
+V0.75S / +V1.5S / POWER GOOD			
SIZE A3	CODE CS	DOC. NUMBER I310AZ2077-0-MT	REV RA02
SHEET 11		OF 53	

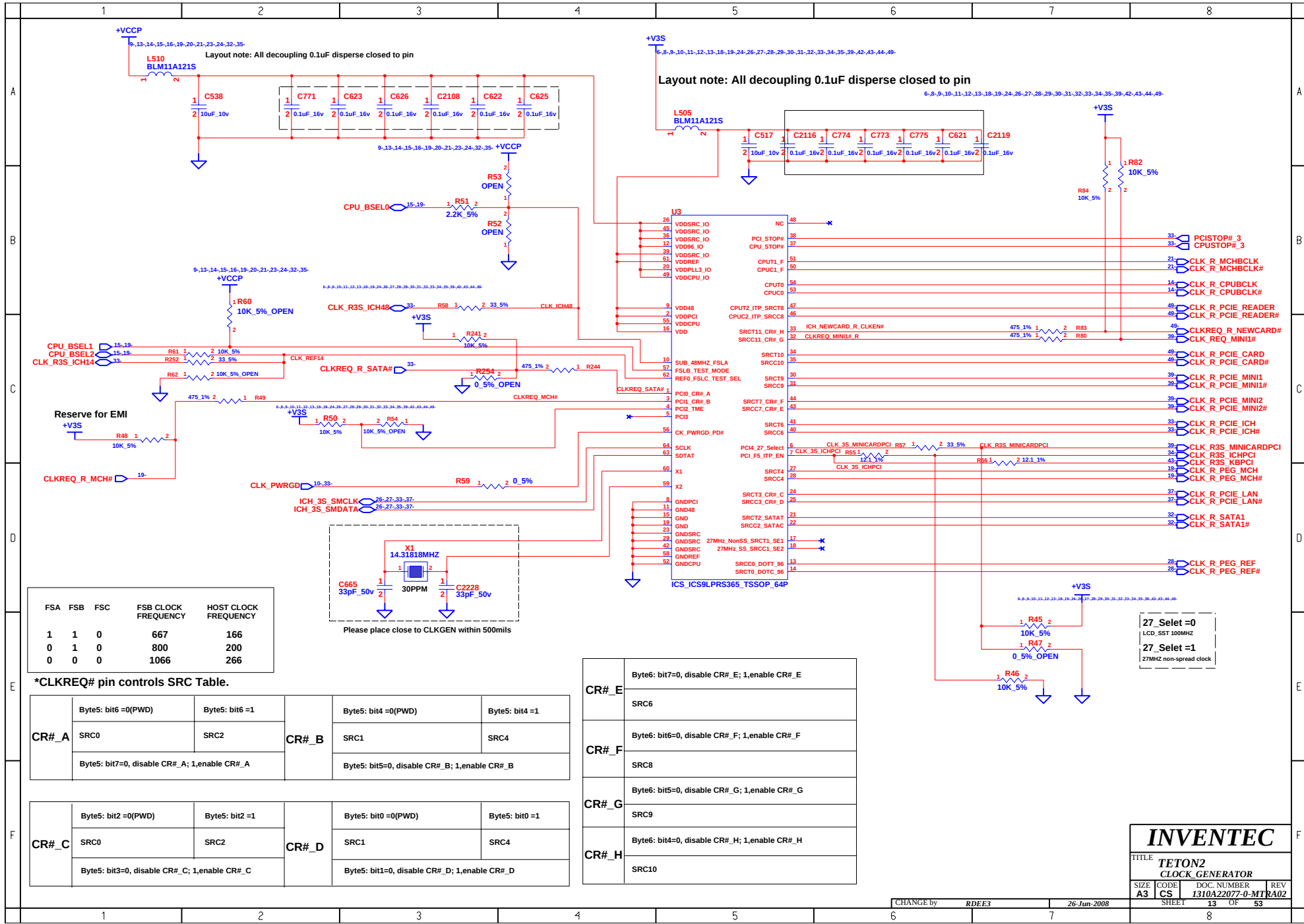
CHANGE by **RDEE3** 26-Jun-2008



INVENTEC

TITLE			
TETON2			
POWER(+V3S / +V5S)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	I310AZ2077-0-MTR	RA02
SHEET		12	OF 53

CHANGE by RDEE3 26-Jun-2008



FSA	FSB	FSC	FSB CLOCK FREQUENCY	HOST CLOCK FREQUENCY
1	1	0	667	166
0	1	0	800	200
0	0	0	1066	266

*CLKREQ# pin controls SRC Table.

CR#_A	Byte5: bit6 =0(PWD)	Byte5: bit6 =1	CR#_B	Byte5: bit4 =0(PWD)	Byte5: bit4 =1
	SRC0	SRC2		SRC1	SRC4
	Byte5: bit7=0, disable CR#_A; 1,enable CR#_A			Byte5: bit5=0, disable CR#_B; 1,enable CR#_B	

CR#_C	Byte5: bit2 =0(PWD)		Byte5: bit2 =1	CR#_D	Byte5: bit0 =0(PWD)		Byte5: bit0 =1
	SRC0		SRC2		SRC1		SRC4
	Byte5: bit3=0, disable CR#_C; 1,enable CR#_C				Byte5: bit1=0, disable CR#_D; 1,enable CR#_D		

CR#_E	Byte6: bit7=0, disable CR#_E; 1,enable CR#_E
CR#_F	Byte6: bit6=0, disable CR#_F; 1,enable CR#_F
CR#_G	Byte6: bit5=0, disable CR#_G; 1,enable CR#_G
CR#_H	Byte6: bit4=0, disable CR#_H; 1,enable CR#_H

INVENTEC

TETON2
CLOCK GENERATOR

SIZE
A3

CODE
CS

DOC. NUMBER
1310A22077-0-MT

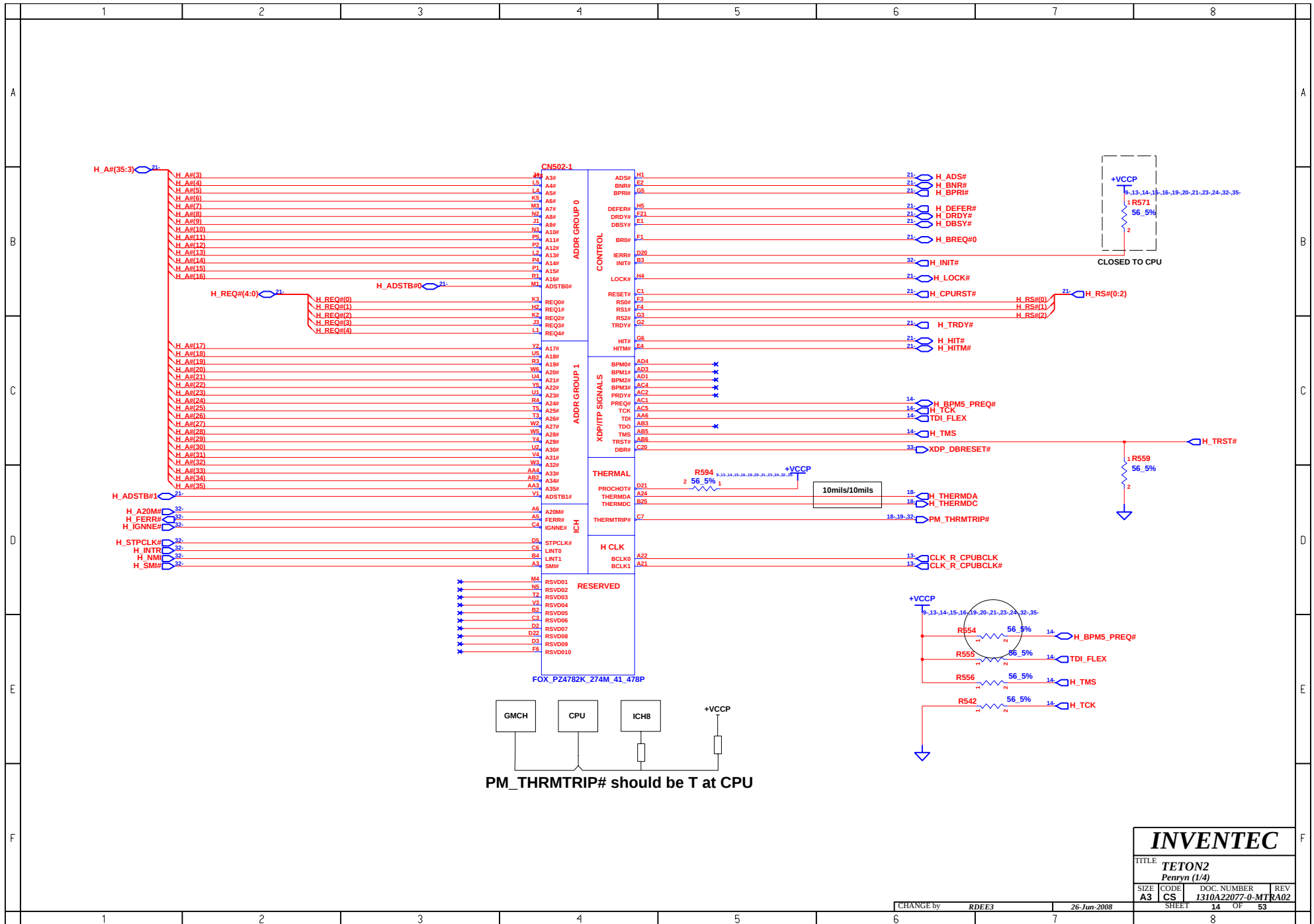
REV
A02

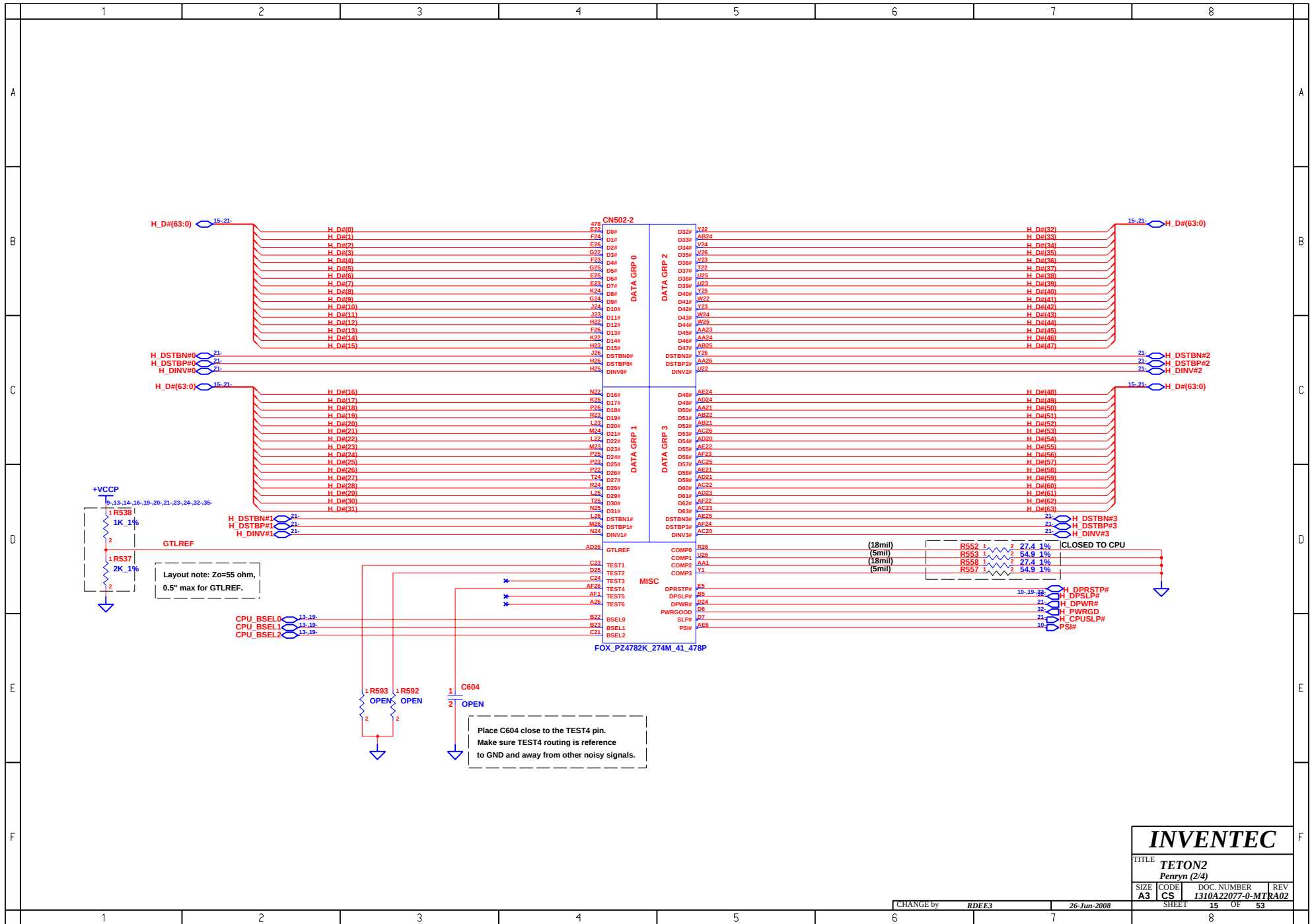
CHANGE by
RDEE3

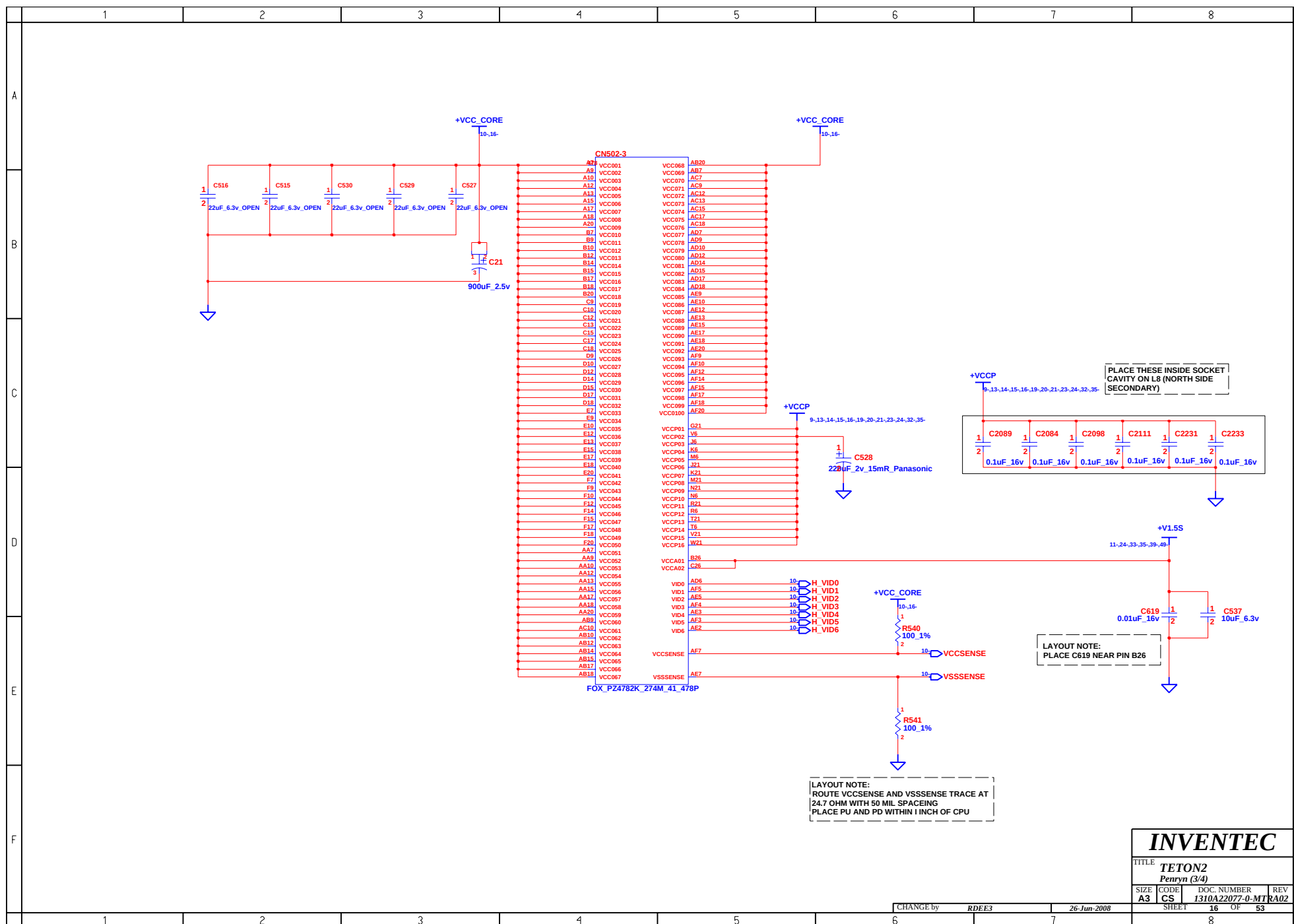
26-Jun-2008

SHEET
13

OF
53







CN502-4

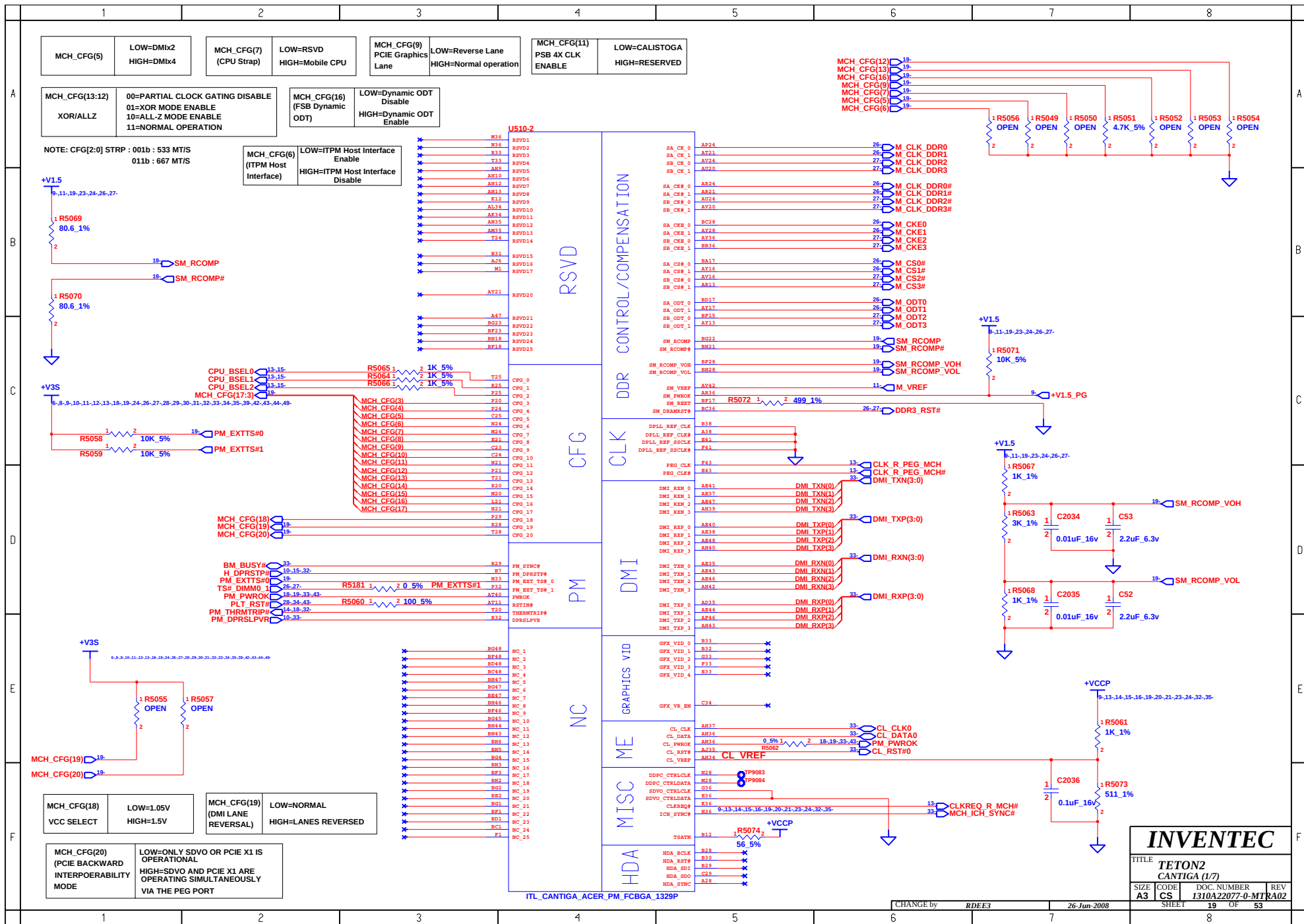
The diagram illustrates the pin configuration for the CN502-4 connector. It features two main columns of pins, each with 21 pins per letter designation (A-F). The top column is labeled A through F on the left and P6 through P21 on the right. The bottom column is labeled A through F on the left and VSS101 through VSS163 on the right. The central vertical line is labeled CN502-4 at the top and FOX_PZ4782K_274M_41_478P at the bottom.

Letter	Pin Number	Label
A	1	VSS001
B	2	VSS002
C	3	VSS003
D	4	VSS004
E	5	VSS005
F	6	VSS006
A	7	VSS007
B	8	VSS008
C	9	VSS009
D	10	VSS010
E	11	VSS011
F	12	VSS012
A	13	VSS013
B	14	VSS014
C	15	VSS015
D	16	VSS016
E	17	VSS017
F	18	VSS018
A	19	VSS019
B	20	VSS020
C	21	VSS021
D	22	VSS022
E	23	VSS023
F	24	VSS024
A	25	VSS025
B	26	VSS026
C	27	VSS027
D	28	VSS028
E	29	VSS029
F	30	VSS030
A	31	VSS031
B	32	VSS032
C	33	VSS033
D	34	VSS034
E	35	VSS035
F	36	VSS036
A	37	VSS037
B	38	VSS038
C	39	VSS039
D	40	VSS040
E	41	VSS041
F	42	VSS042
A	43	VSS043
B	44	VSS044
C	45	VSS045
D	46	VSS046
E	47	VSS047
F	48	VSS048
A	49	VSS049
B	50	VSS050
C	51	VSS051
D	52	VSS052
E	53	VSS053
F	54	VSS054
A	55	VSS055
B	56	VSS056
C	57	VSS057
D	58	VSS058
E	59	VSS059
F	60	VSS060
A	61	VSS061
B	62	VSS062
C	63	VSS063
D	64	VSS064
E	65	VSS065
F	66	VSS066
A	67	VSS067
B	68	VSS068
C	69	VSS069
D	70	VSS070
E	71	VSS071
F	72	VSS072
A	73	VSS073
B	74	VSS074
C	75	VSS075
D	76	VSS076
E	77	VSS077
F	78	VSS078
A	79	VSS079
B	80	VSS080
C	81	VSS081
D	82	VSS082
E	83	VSS083
F	84	VSS084
A	85	VSS085
B	86	VSS086
C	87	VSS087
D	88	VSS088
E	89	VSS089
F	90	VSS090
A	91	VSS091
B	92	VSS092
C	93	VSS093
D	94	VSS094
E	95	VSS095
F	96	VSS096
A	97	VSS097
B	98	VSS098
C	99	VSS099
D	100	VSS100
E	101	VSS101
F	102	VSS102
A	103	VSS103
B	104	VSS104
C	105	VSS105
D	106	VSS106
E	107	VSS107
F	108	VSS108
A	109	VSS109
B	110	VSS110
C	111	VSS111
D	112	VSS112
E	113	VSS113
F	114	VSS114
A	115	VSS115
B	116	VSS116
C	117	VSS117
D	118	VSS118
E	119	VSS119
F	120	VSS120
A	121	VSS121
B	122	VSS122
C	123	VSS123
D	124	VSS124
E	125	VSS125
F	126	VSS126
A	127	VSS127
B	128	VSS128
C	129	VSS129
D	130	VSS130
E	131	VSS131
F	132	VSS132
A	133	VSS133
B	134	VSS134
C	135	VSS135
D	136	VSS136
E	137	VSS137
F	138	VSS138
A	139	VSS139
B	140	VSS140
C	141	VSS141
D	142	VSS142
E	143	VSS143
F	144	VSS144
A	145	VSS145
B	146	VSS146
C	147	VSS147
D	148	VSS148
E	149	VSS149
F	150	VSS150
A	151	VSS151
B	152	VSS152
C	153	VSS153
D	154	VSS154
E	155	VSS155
F	156	VSS156
A	157	VSS157
B	158	VSS158
C	159	VSS159
D	160	VSS160
E	161	VSS161
F	162	VSS162
A	163	VSS163

INVENTEC			
TITLE			
TETON2			
Penryn (4/4)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22077-0-MTR	RA02

CHANGE by RDEF3 26-Jun-2008

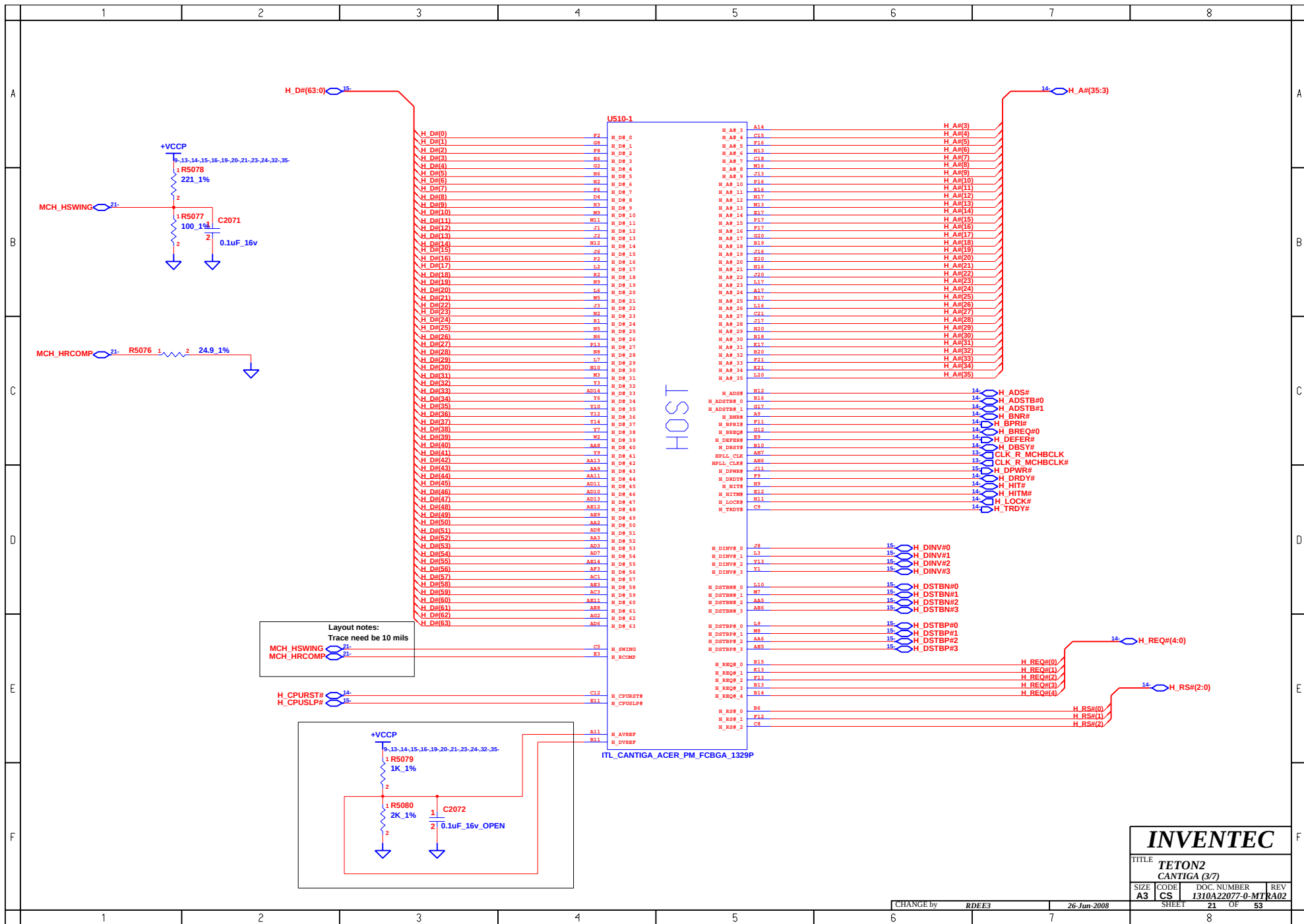
SHEET 17 OF 53



INVENTEC

TITLE
TETON2
CANTIGA (1/7)

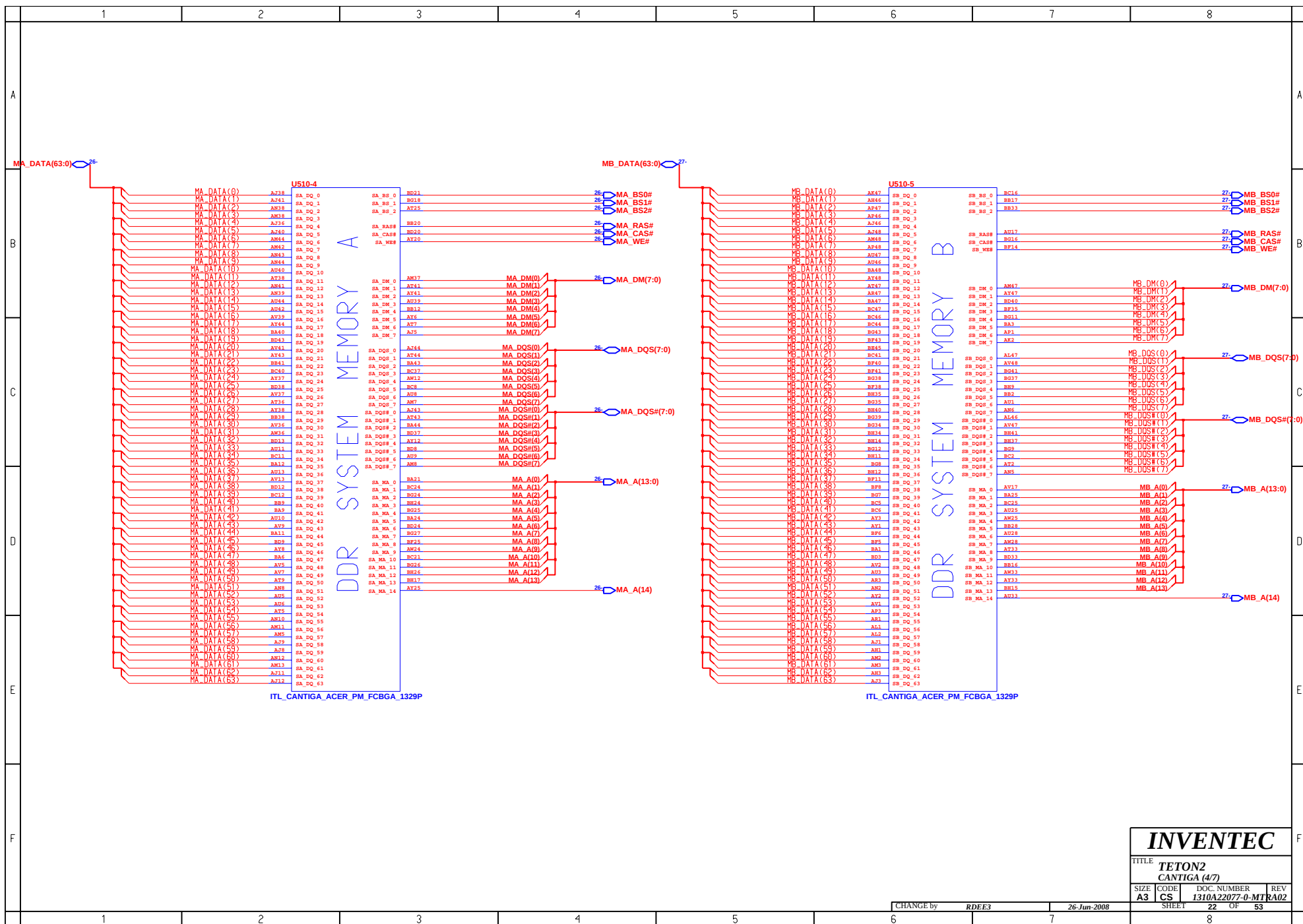
SIZE A3	CODE CS	DOC. NUMBER 1310A22077-0-MTR	REV A02
SHEET 19		OF 53	

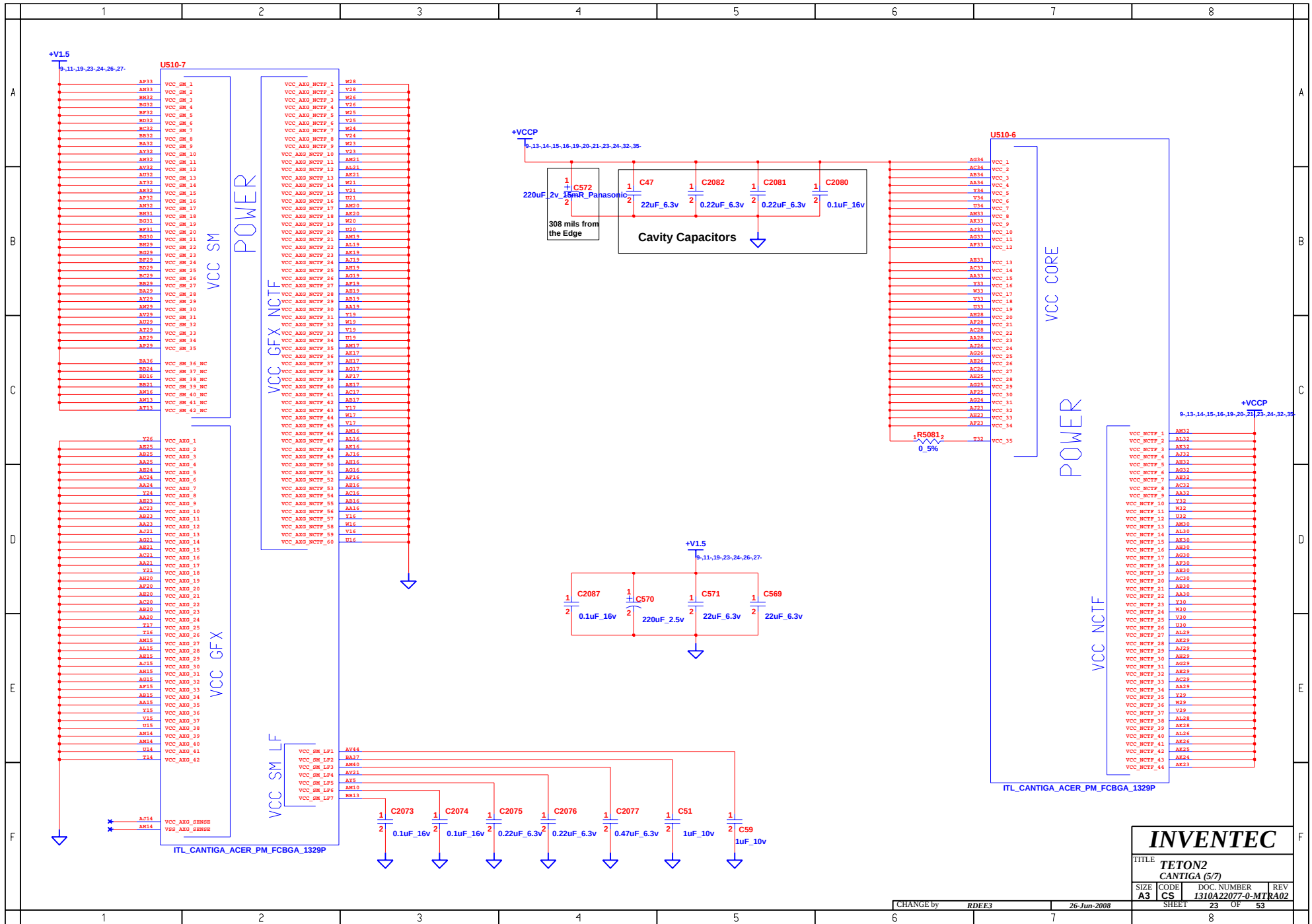


INVENTEC

TITLE TETON2 CANTIGA (3/7)			
SIZE A3	CODE CS	DOC. NUMBER I310A22077-0-MT	REV RA02
SHEET 21		OF 53	

CHANGE by **RDEE3** 26-Jun-2008

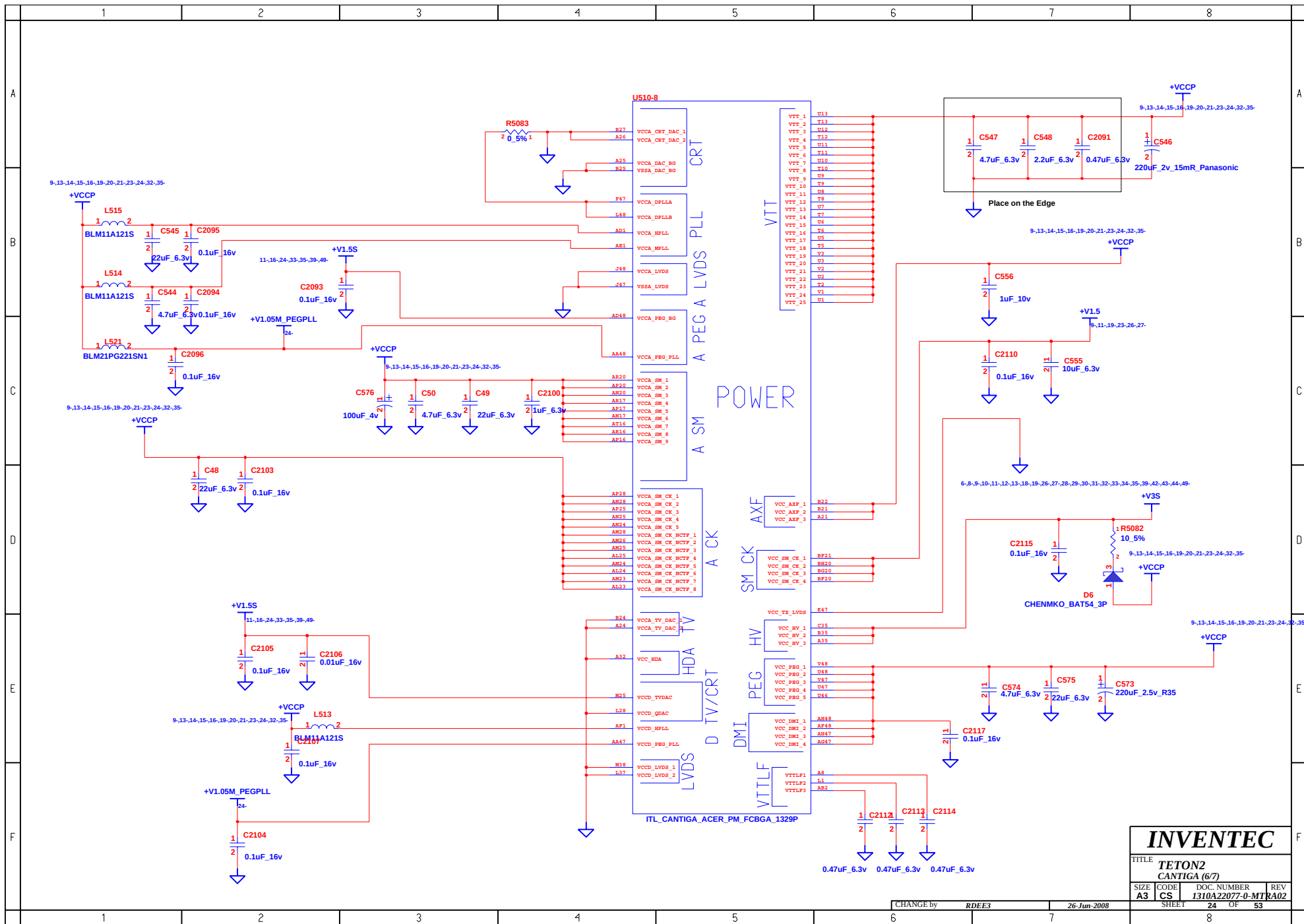




INVENTEC

TITLE TETON2 CANTIGA (5/7)			
SIZE A3	CODE CS	DOC. NUMBER I310AZ2077-0-MT	REV RA02
SHEET 23		OF 53	

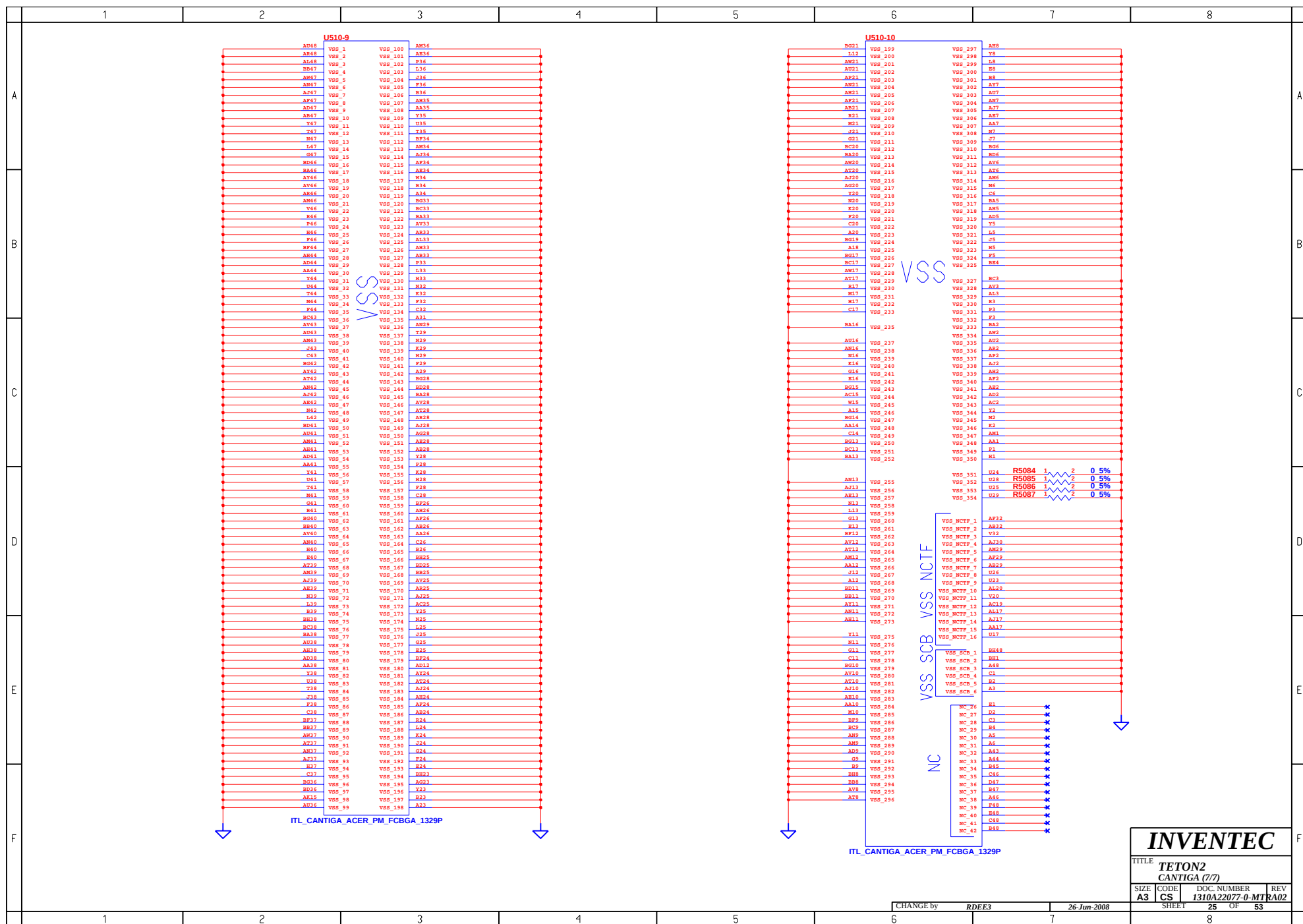
CHANGE by **RDEE3** 26-Jun-2008

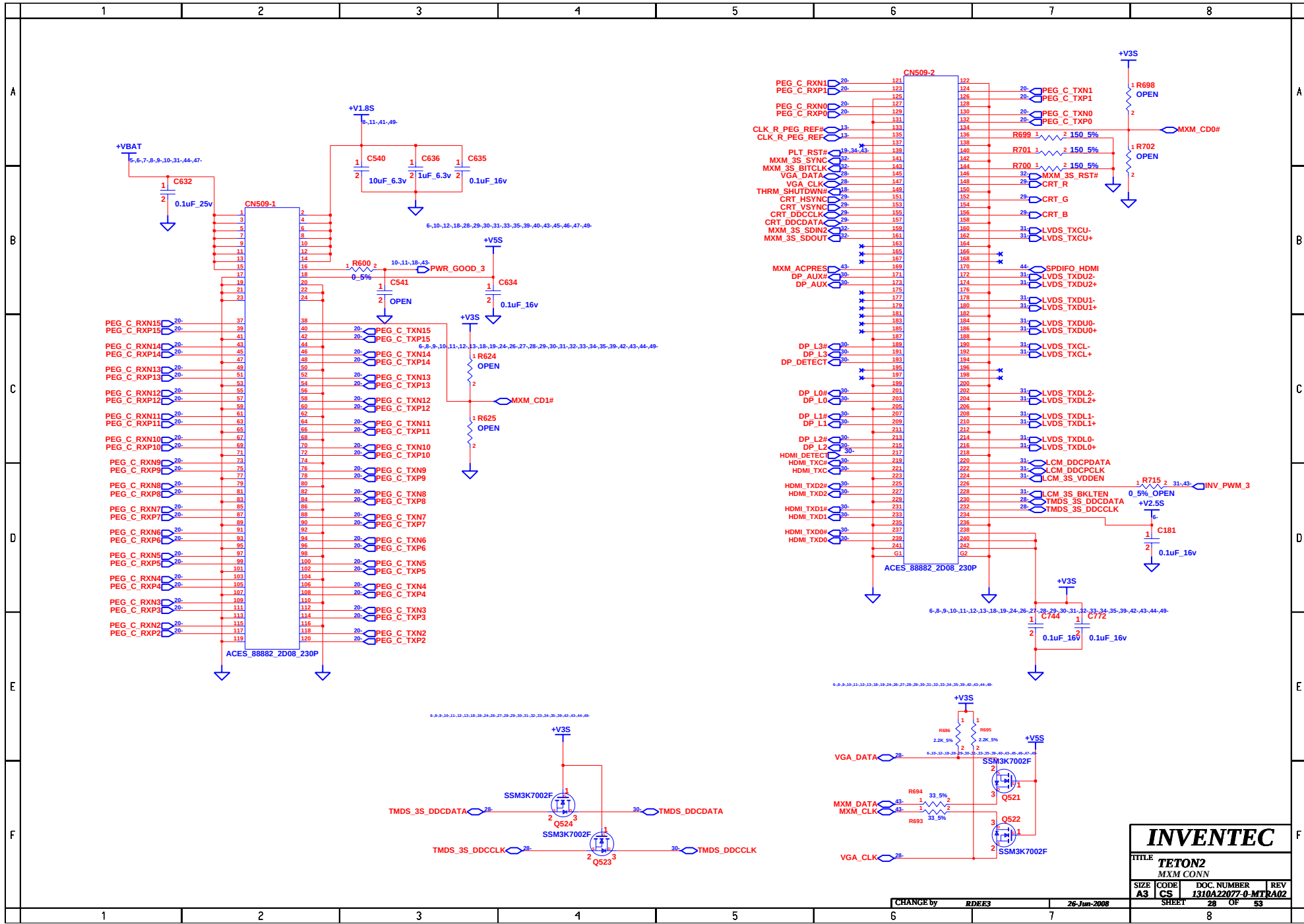


INVENTEC

TITLE TETON2 CANTIGA (6/7)			
SIZE A3	CODE CS	DOC. NUMBER I310A22077-0-MT	REV RA02
SHEET 24		OF 53	

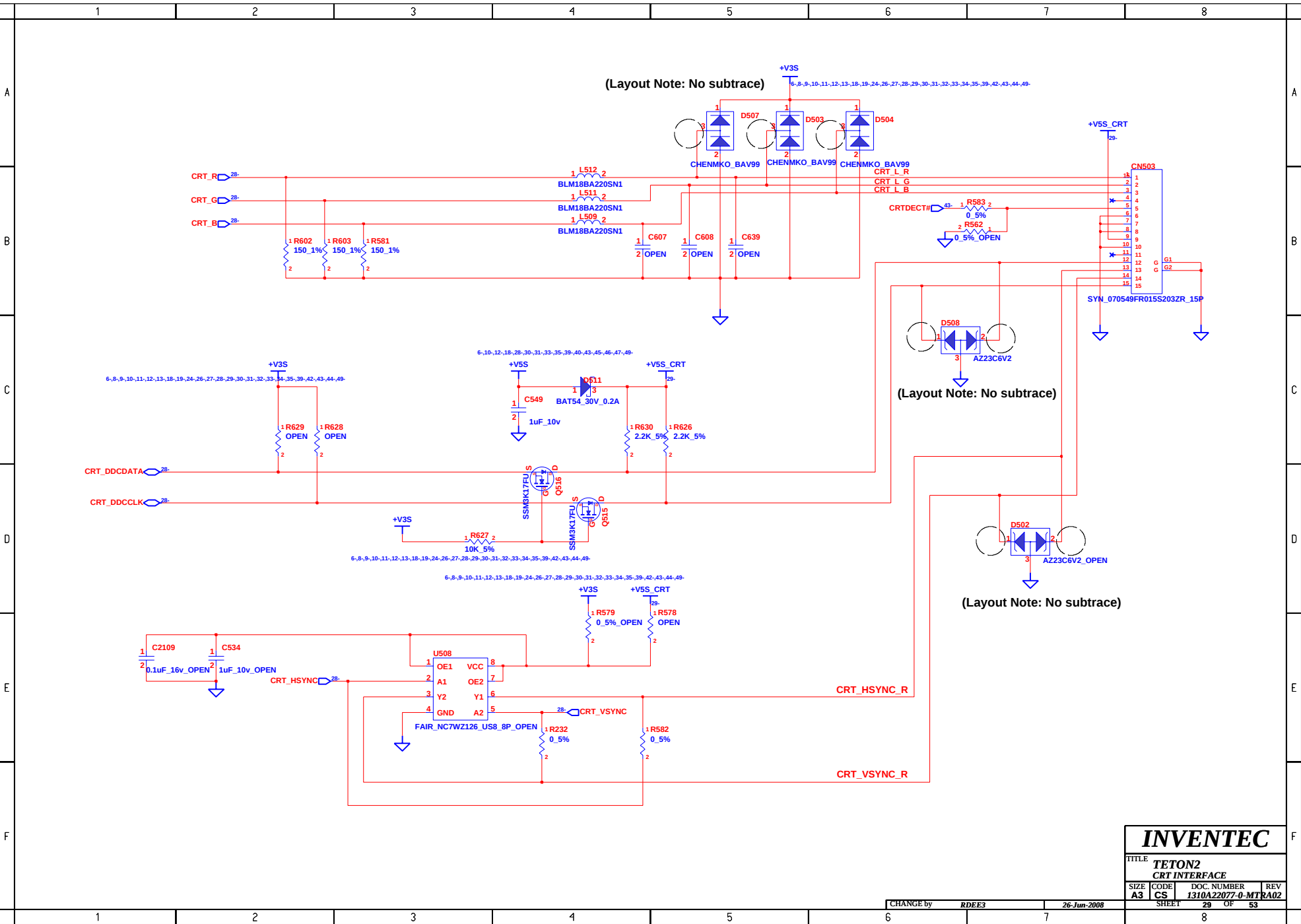
CHANGE by RDEE3 26-Jun-2008

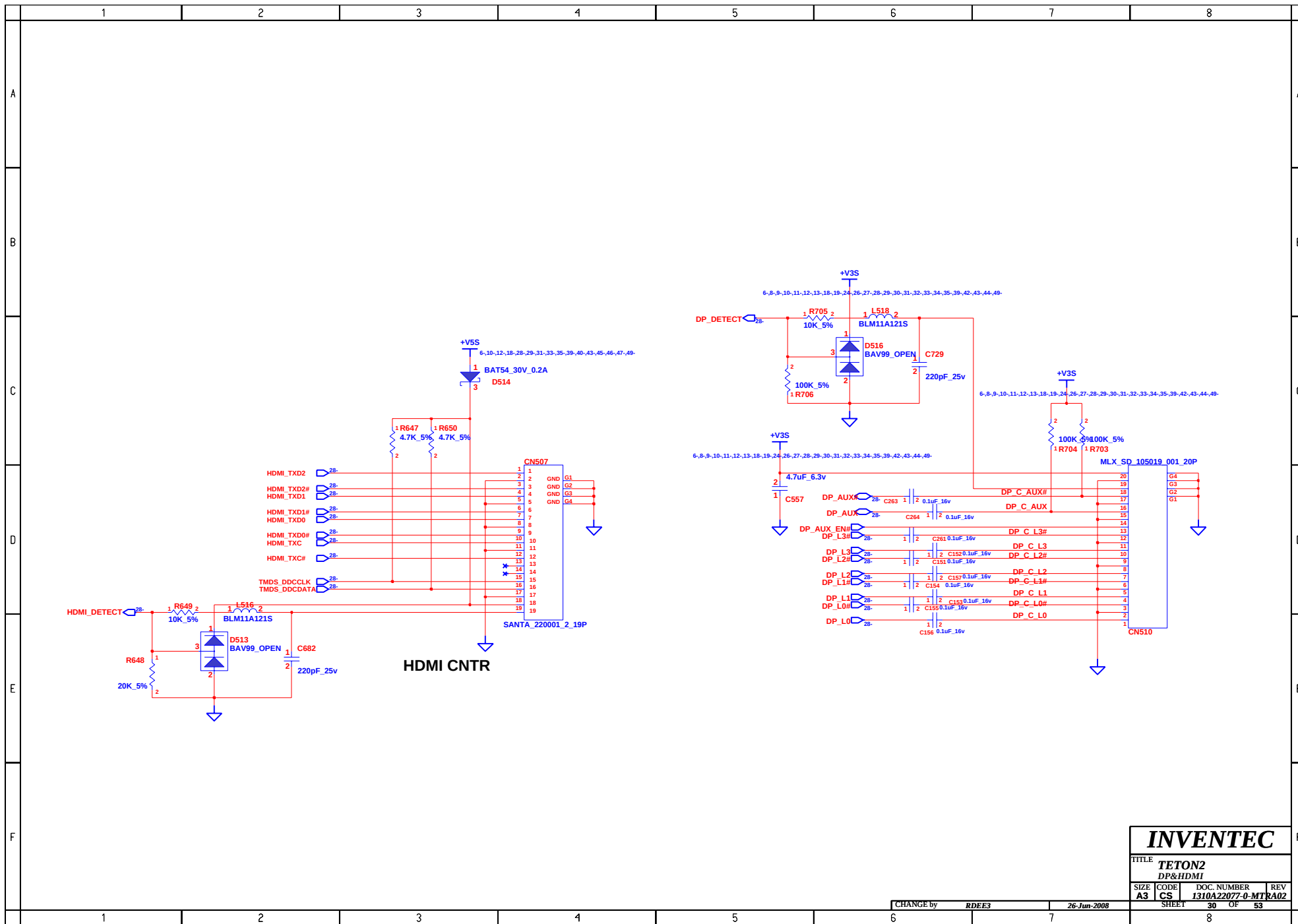


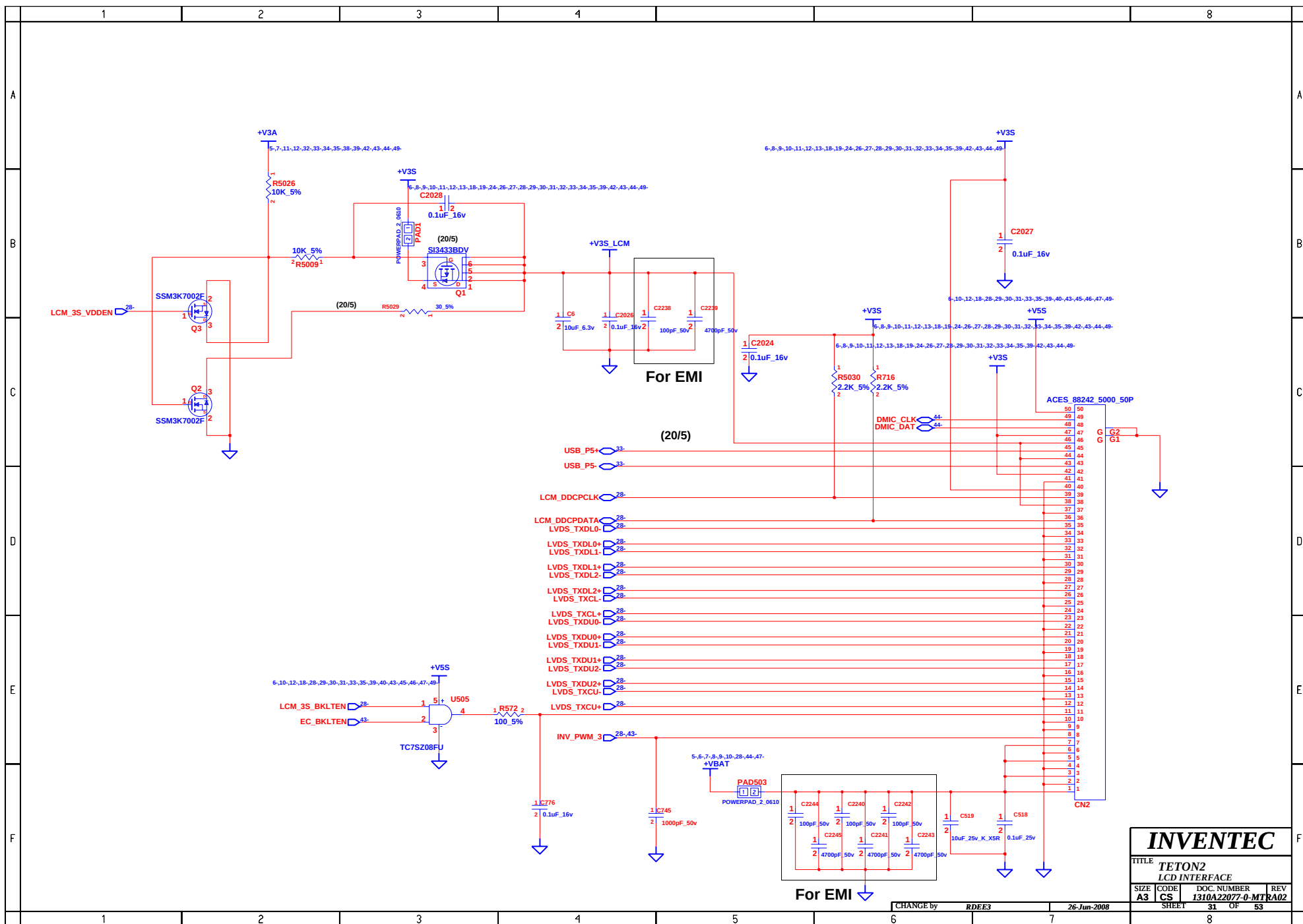


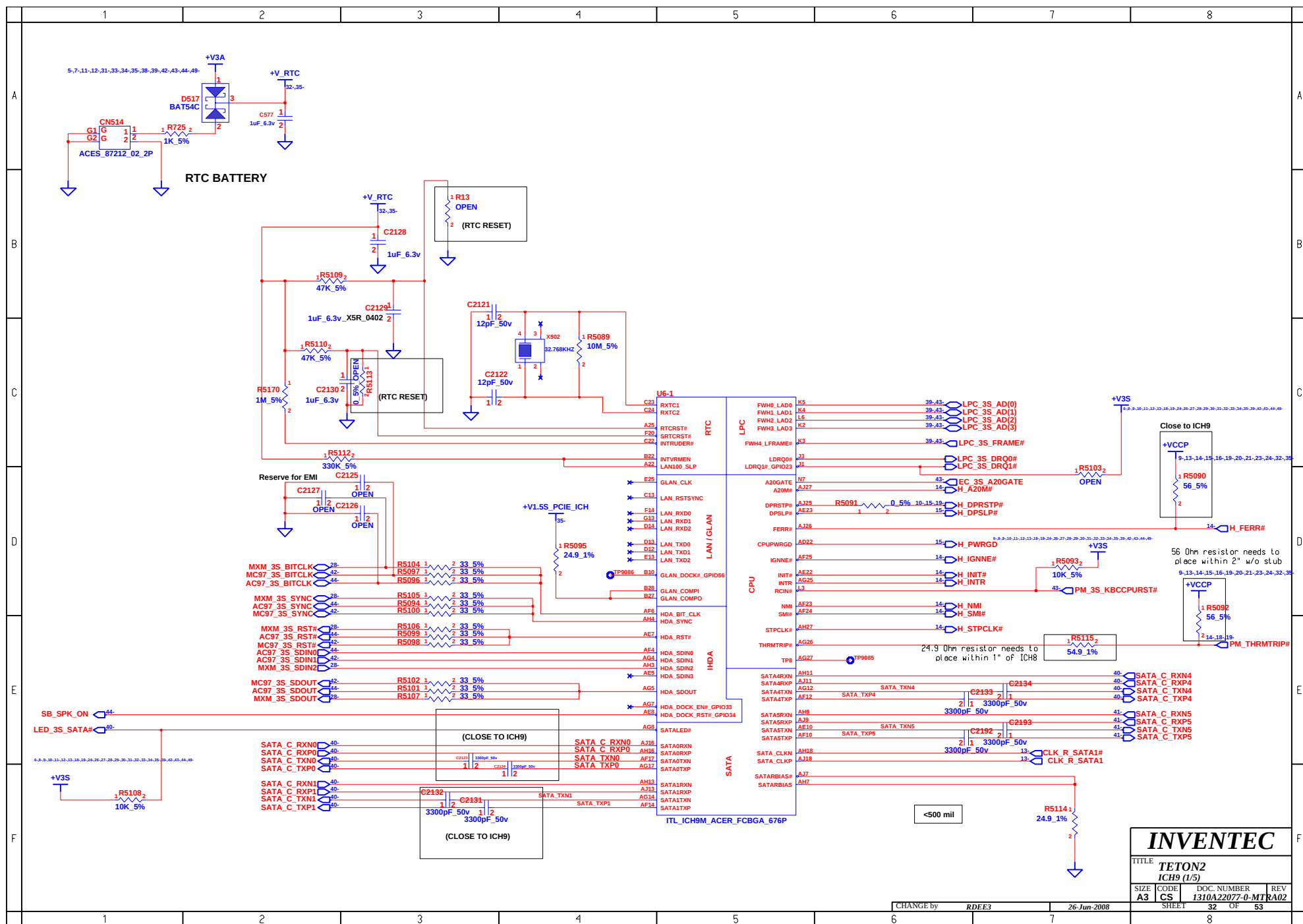
INVENTEC			
TITLE TETON2 MXM CONN			
SIZE A3	CODE CS	DOC. NUMBER 1310A22077-0-MTRA02	REV 53

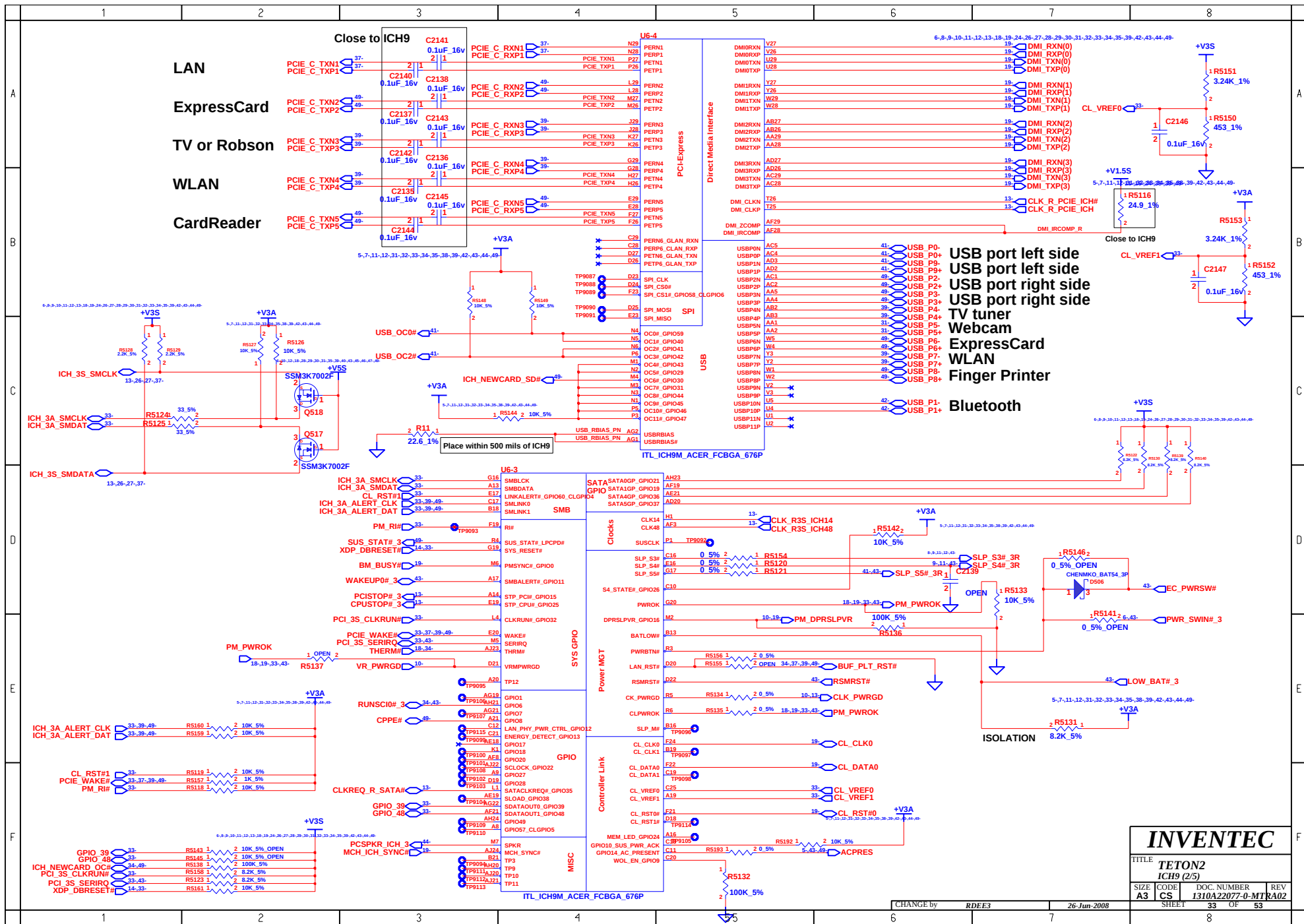
CHANGE by **RDEE3** 26-Jun-2008







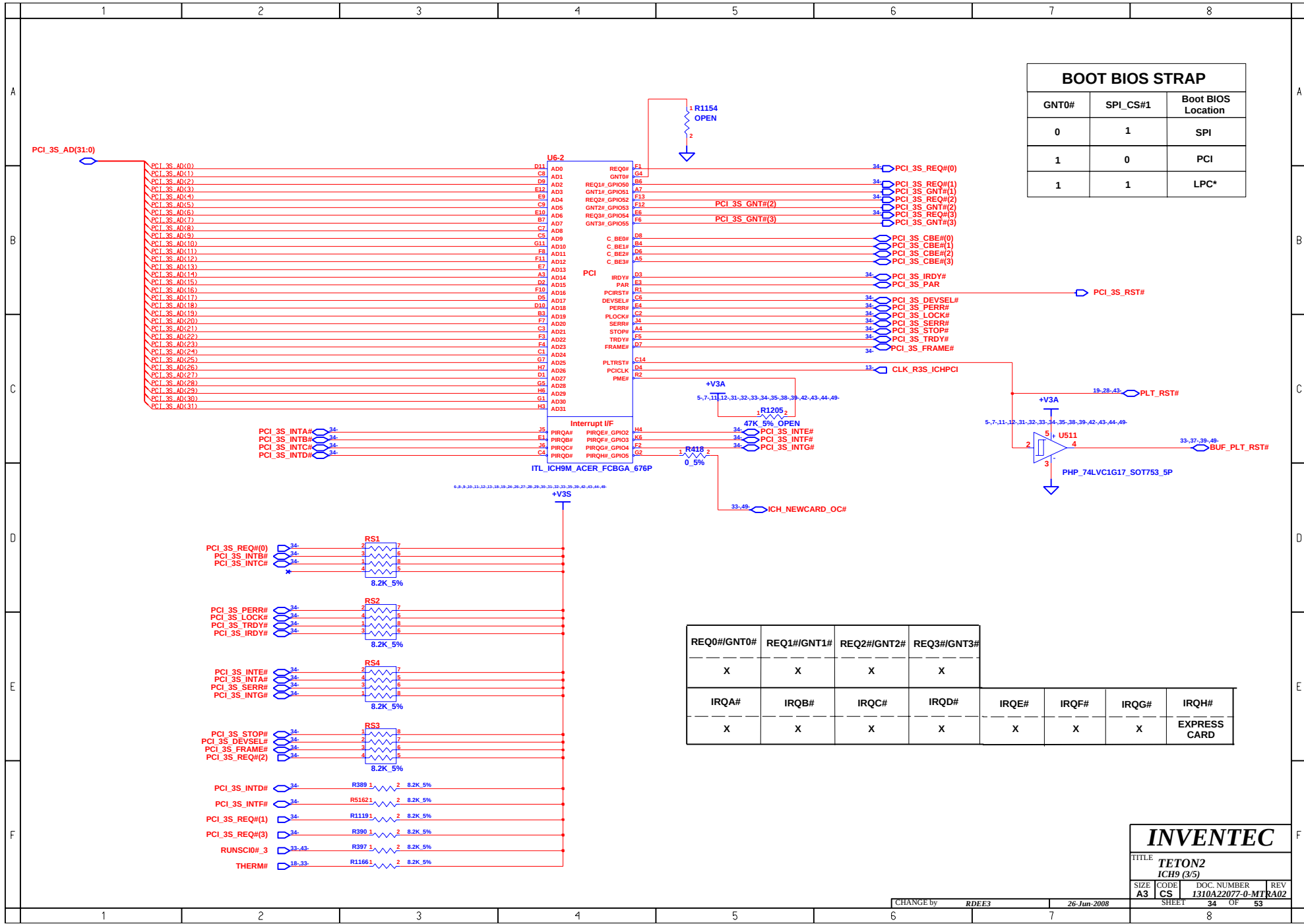




INVENTEC

TITLE			
TETON2			
ICH9 (2/5)			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310AZ2077-0-MT	RA02
SHEET		33	OF 53

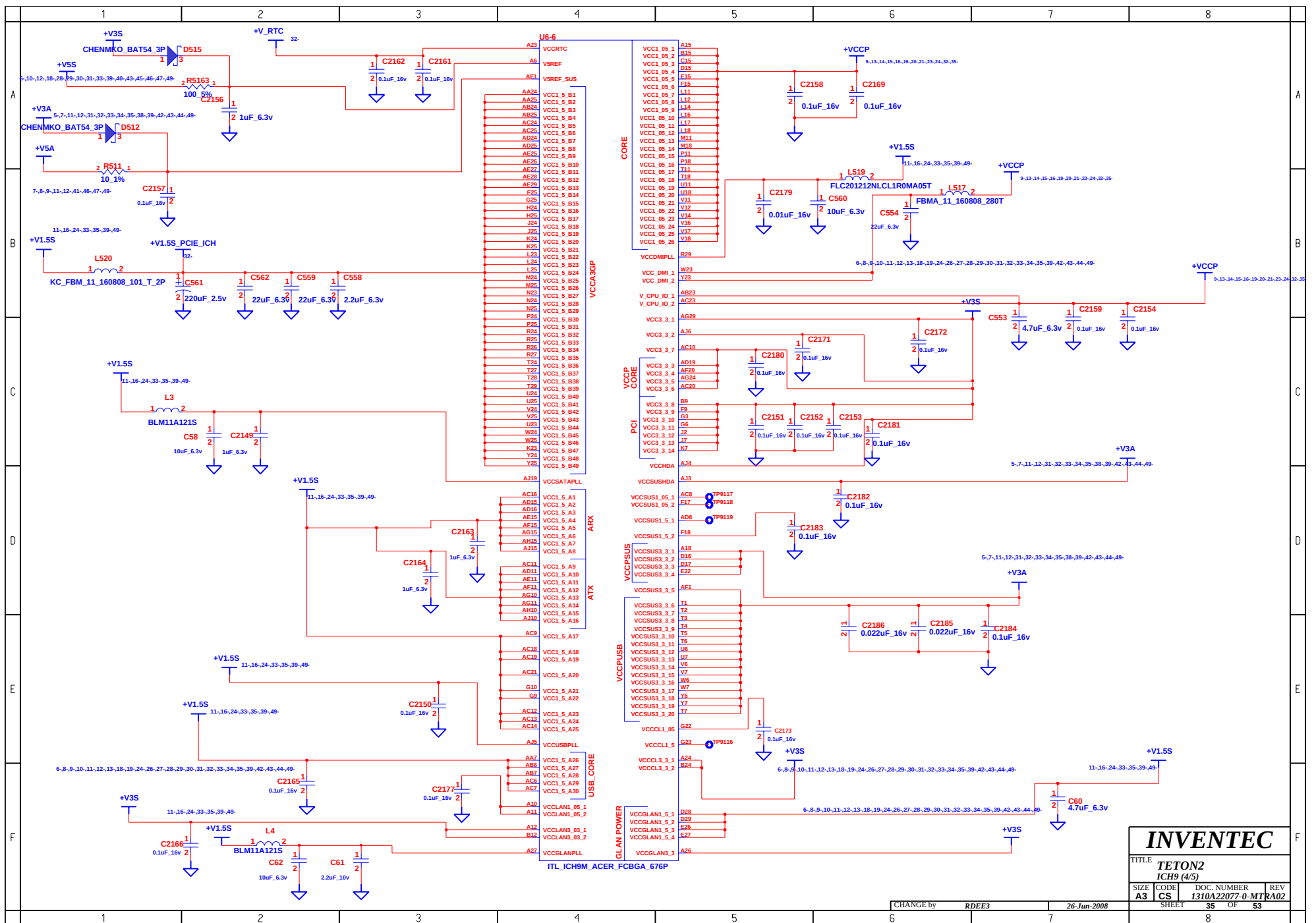
CHANGE by RDE3 26-Jun-2008



BOOT BIOS STRAP		
GNT0#	SPI_CS#1	Boot BIOS Location
0	1	SPI
1	0	PCI
1	1	LPC*

REQ0#/GNT0#	REQ1#/GNT1#	REQ2#/GNT2#	REQ3#/GNT3#				
X	X	X	X				
IRQA#	IRQB#	IRQC#	IRQD#	IRQE#	IRQF#	IRQG#	IRQH#
X	X	X	X	X	X	X	EXPRESS CARD

INVENTEC			
TITLE TETON2 ICH9 (3/5)			
SIZE A3	CODE CS	DOC. NUMBER 1310A22077-0-MTR	REV RA02
CHANGE by RDEE3 26-Jun-2008			
SHEET 34 OF 53			



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

U6-5

AA20

VSS001

VSS107

H5

AA27

VSS002

VSS108

J23

AA3

VSS003

VSS109

J26

AA6

VSS004

VSS110

J27

AB1

VSS005

VSS111

AC22

AA23

VSS006

VSS112

K28

AB28

VSS007

VSS113

K29

AB24

VSS008

VSS114

L13

AB4

VSS009

VSS115

L15

AB5

VSS010

VSS116

L2

AC17

VSS011

VSS117

L26

AC26

VSS012

VSS118

L27

AC27

VSS013

VSS119

L5

AC3

VSS014

VSS120

L7

AD1

VSS015

VSS121

M12

AD16

VSS016

VSS122

M13

AD12

VSS017

VSS123

M14

AD13

VSS018

VSS124

M15

AD14

VSS019

VSS125

M16

AD11

VSS020

VSS126

M17

AD18

VSS021

VSS127

M23

AD21

VSS022

VSS128

M28

AD28

VSS023

VSS129

M29

AD25

VSS024

VSS130

N11

AD4

VSS025

VSS131

N12

AD5

VSS026

VSS132

N13

AD6

VSS027

VSS133

N14

AD7

VSS028

VSS134

N15

AD9

VSS029

VSS135

N16

AE12

VSS030

VSS136

N17

AE13

VSS031

VSS137

N18

AE14

VSS032

VSS138

N26

AE16

VSS033

VSS139

N27

AE17

VSS034

VSS140

P12

AE2

VSS035

VSS141

P13

AE26

VSS036

VSS142

P14

AE24

VSS037

VSS143

P15

AE3

VSS038

VSS144

P16

AE4

VSS039

VSS145

P17

AE5

VSS040

VSS146

P2

AE9

VSS041

VSS147

P23

AF13

VSS042

VSS148

P28

AF16

VSS043

VSS149

P29

AF18

VSS044

VSS150

P4

AF22

VSS045

VSS151

P7

AH26

VSS046

VSS152

R11

AF26

VSS047

VSS153

R12

AF27

VSS048

VSS154

R13

AF5

VSS049

VSS155

R14

AF7

VSS050

VSS156

R15

AF3

VSS051

VSS157

R16

AG13

VSS052

VSS158

R17

AG16

VSS053

VSS159

R18

AG18

VSS054

VSS160

R29

AG26

VSS055

VSS161

T12

AG23

VSS056

VSS162

T13

AG3

VSS057

VSS163

T14

AG5

VSS058

VSS164

T15

AG5

VSS059

VSS165

T16

AH12

VSS060

VSS166

T17

AH14

VSS061

VSS167

T23

AH17

VSS062

VSS168

U12

AH16

VSS063

VSS169

U13

AH2

VSS064

VSS170

U14

AH22

VSS065

VSS171

U15

AH25

VSS066

VSS172

U16

AH28

VSS067

VSS173

U17

AH5

VSS068

VSS174

AD23

AH5

VSS069

VSS175

U26

AJ12

VSS070

VSS176

U27

AJ14

VSS071

VSS177

U3

AJ17

VSS072

VSS178

V1

AJ3

VSS073

VSS179

V13

B13

VSS074

VSS180

V15

B14

VSS075

VSS181

V23

B17

VSS076

VSS182

V28

B5

VSS077

VSS183

V29

B25

VSS078

VSS184

V4

B23

VSS079

VSS185

V5

B5

VSS080

VSS186

W25

B5

VSS081

VSS187

W27

C26

VSS082

VSS188

W3

C27

VSS083

VSS189

Y1

E11

VSS084

VSS190

Y28

E14

VSS085

VSS191

Y29

E15

VSS086

VSS192

Y4

E2

VSS087

VSS193

Y5

E21

VSS088

VSS194

AG28

E24

VSS089

VSS195

AH6

E5

VSS090

VSS196

AF2

E8

VSS091

VSS197

B25

F16

VSS092

VSS198

F26

VSS093

F29

VSS094

VSS_NCTF1

A1

G12

VSS095

VSS_NCTF2

A2

G14

VSS096

VSS_NCTF3

A28

G15

VSS097

VSS_NCTF4

A29

G21

VSS098

VSS_NCTF5

AH1

G24

VSS099

VSS_NCTF6

AH29

G26

VSS100

VSS_NCTF7

AJ1

G27

VSS101

VSS_NCTF8

AJ2

G8

VSS102

VSS_NCTF9

AJ28

H2

VSS103

VSS_NCTF10

AJ29

H23

VSS104

VSS_NCTF11

B1

H25

VSS105

VSS_NCTF12

B29

H29

VSS106

ITL_ICH9M_ACER_FCBGA_576P

CHANGE by

RDEE3

26-Jun-2008

SIZE

A3

CODE

CS

DOC. NUMBER

1310AZ2077-0-MT

REV

RA02

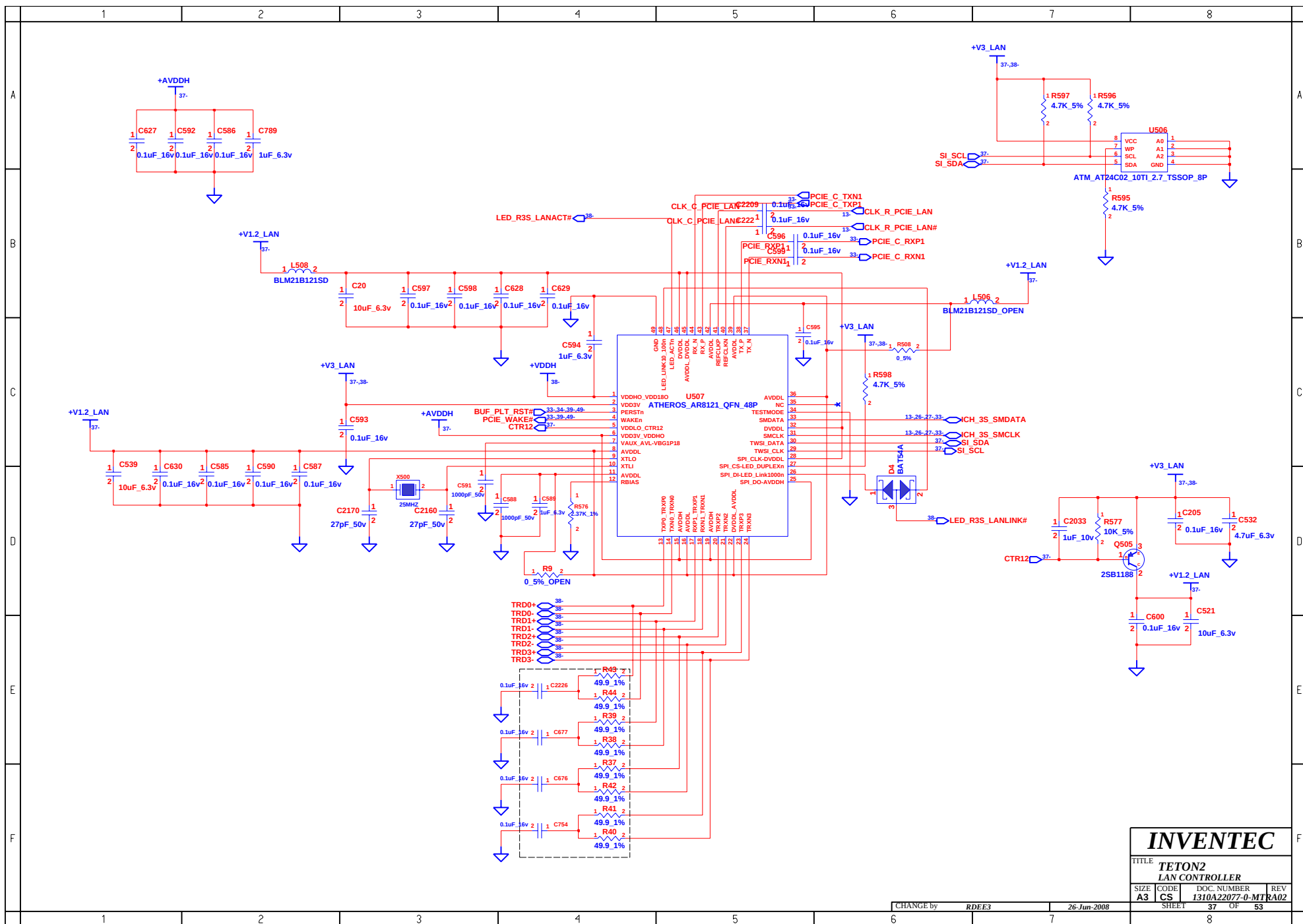
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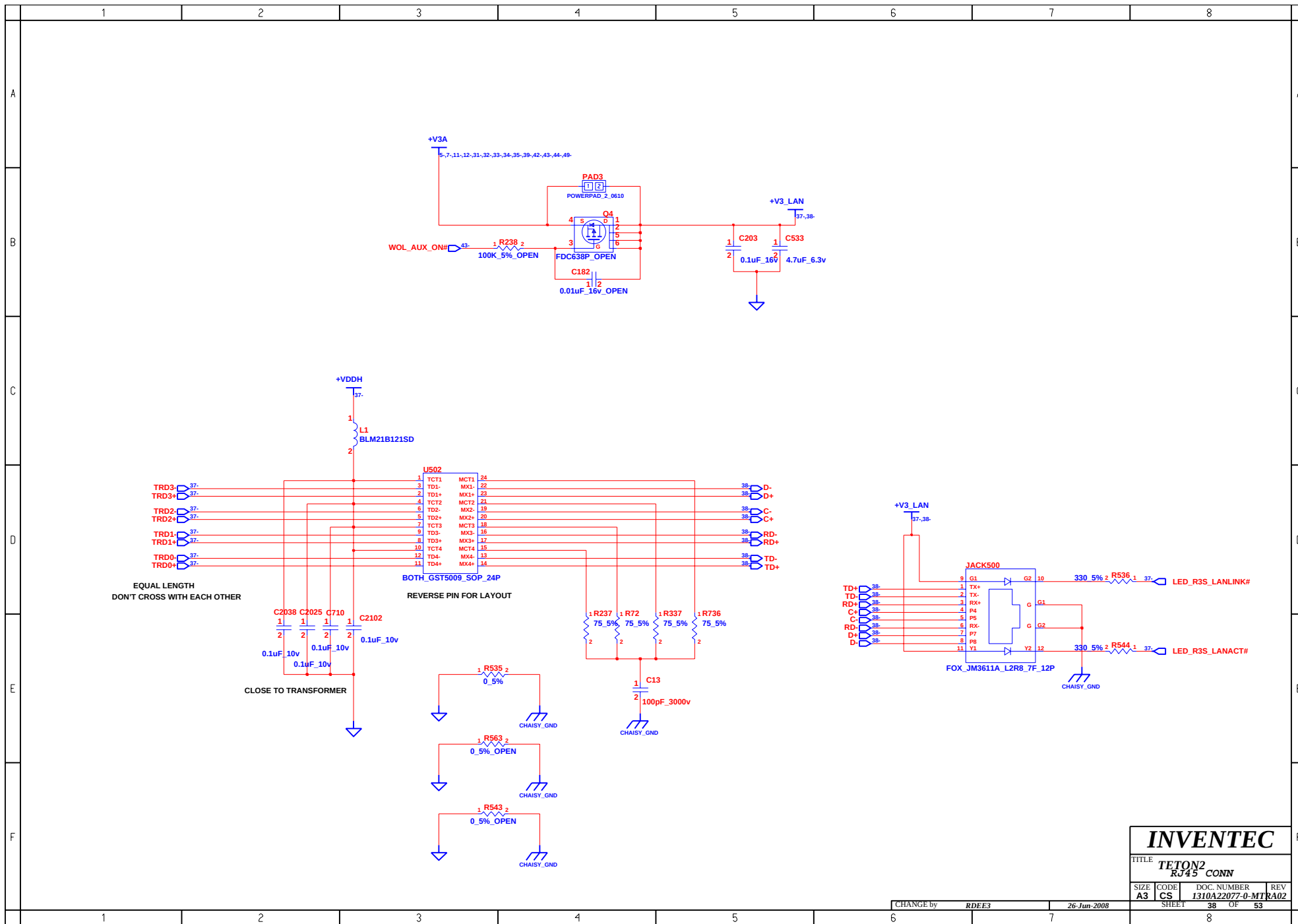
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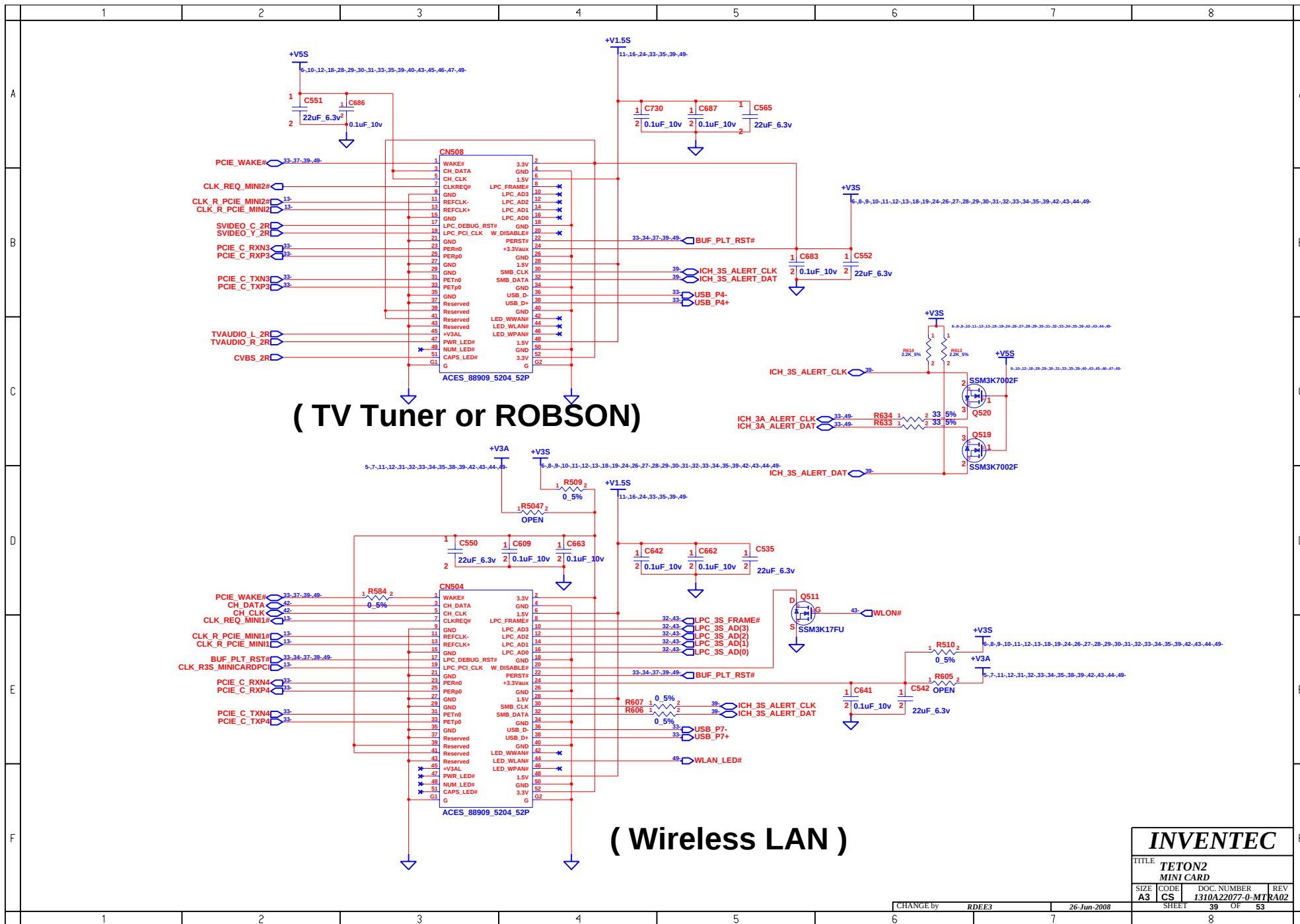
OF

53

8







INVENTEC

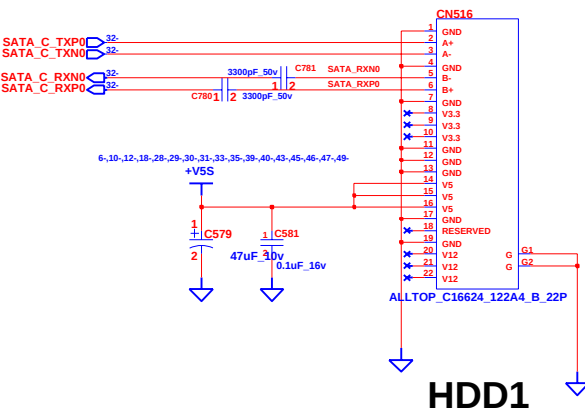
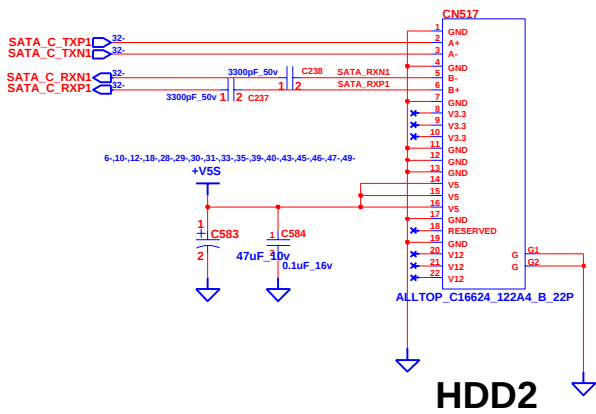
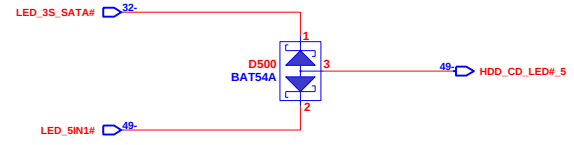
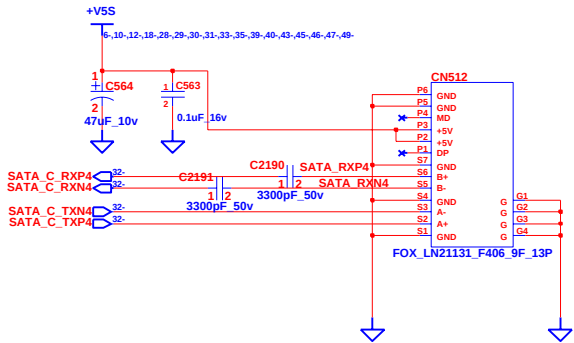
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**TETON2
MINI CARD**

SIZE A3	CODE CS	DOC. NUMBER I310AZ2077-0-MT	REV A02
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CHANGE by **RDEE3** 26-Jun-2008

SHEET **39** OF **53**

ODD

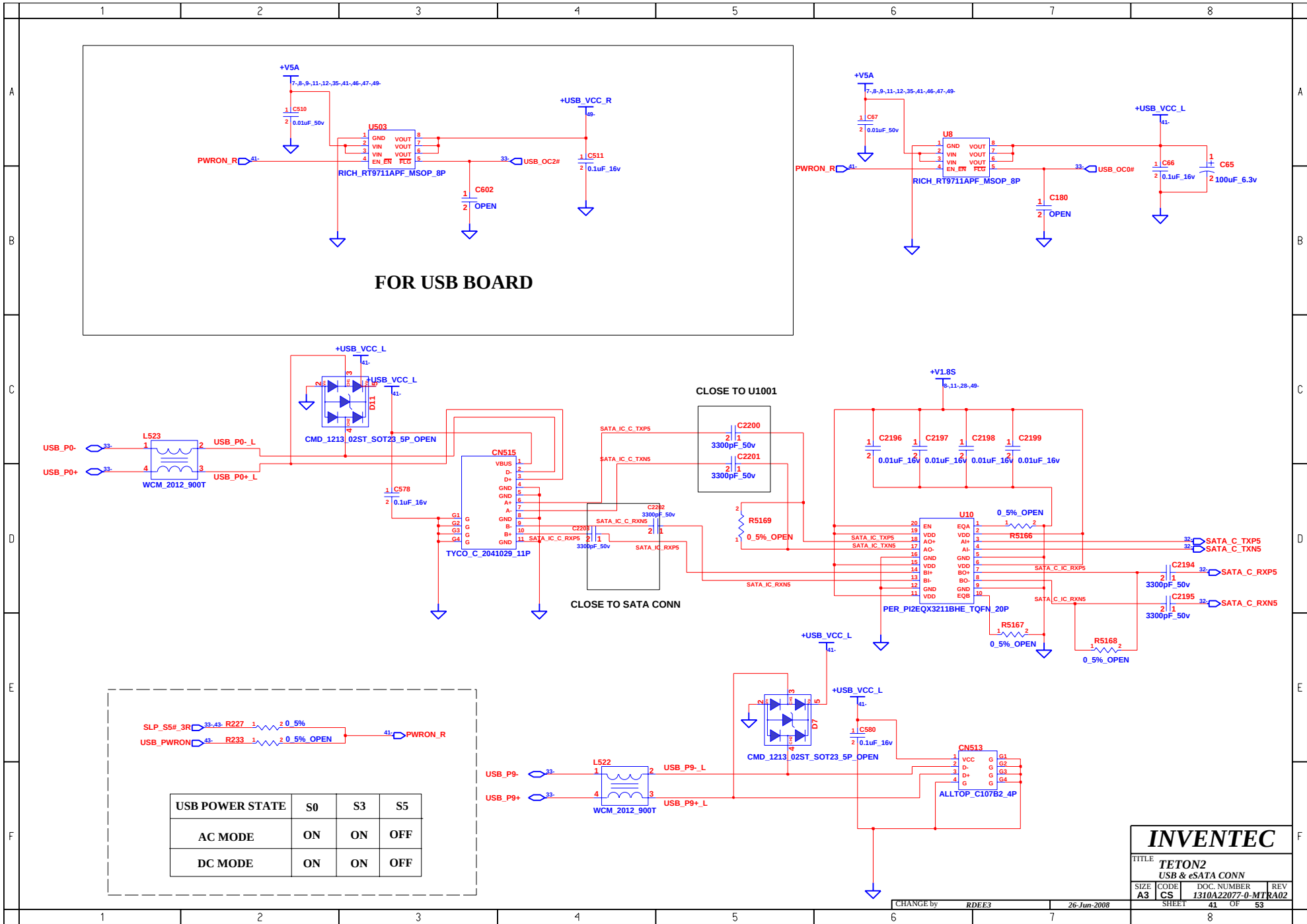


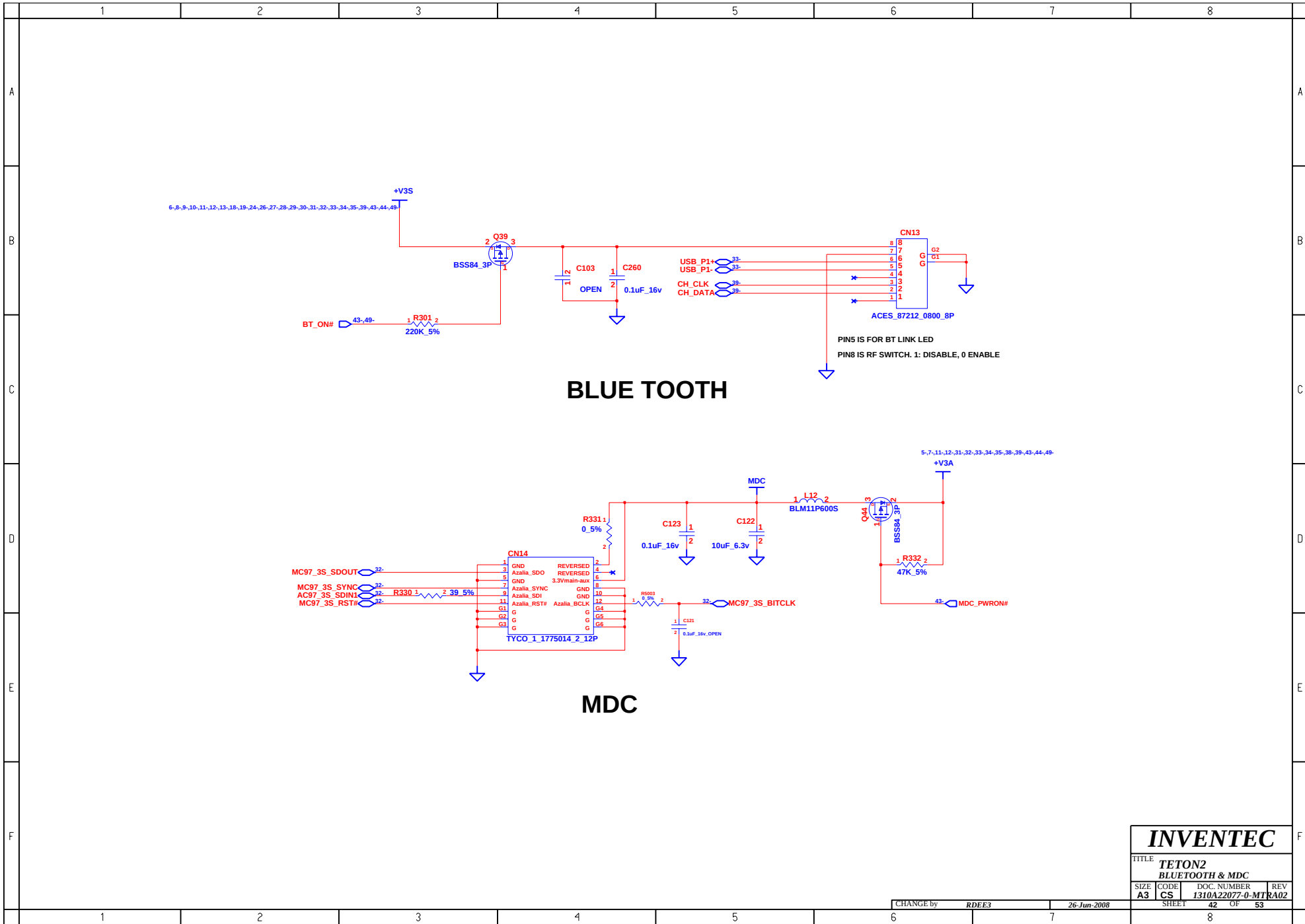
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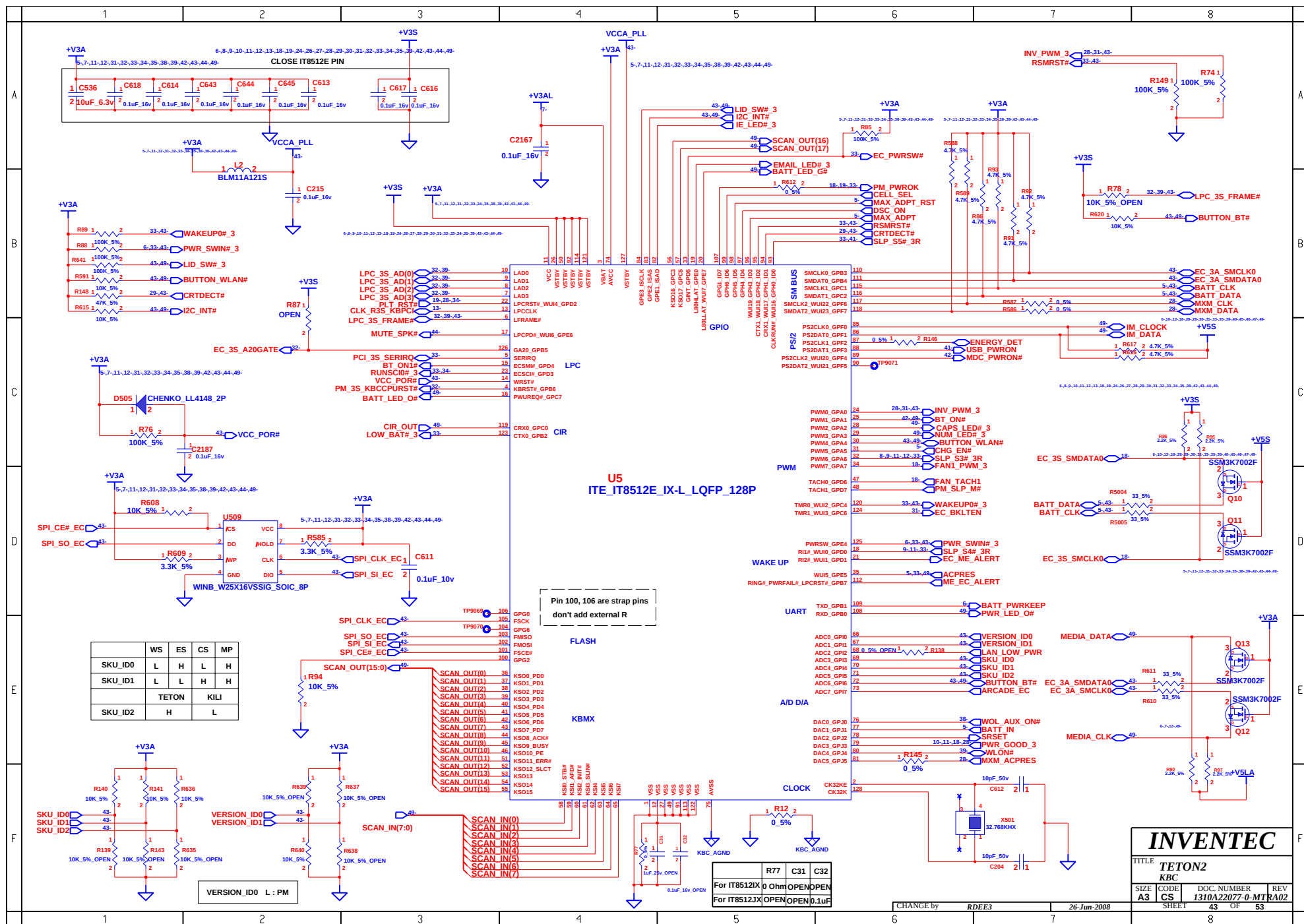
TITLE			
TETON2			
ODD & HDD CONN			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22077-0-MT	RA02

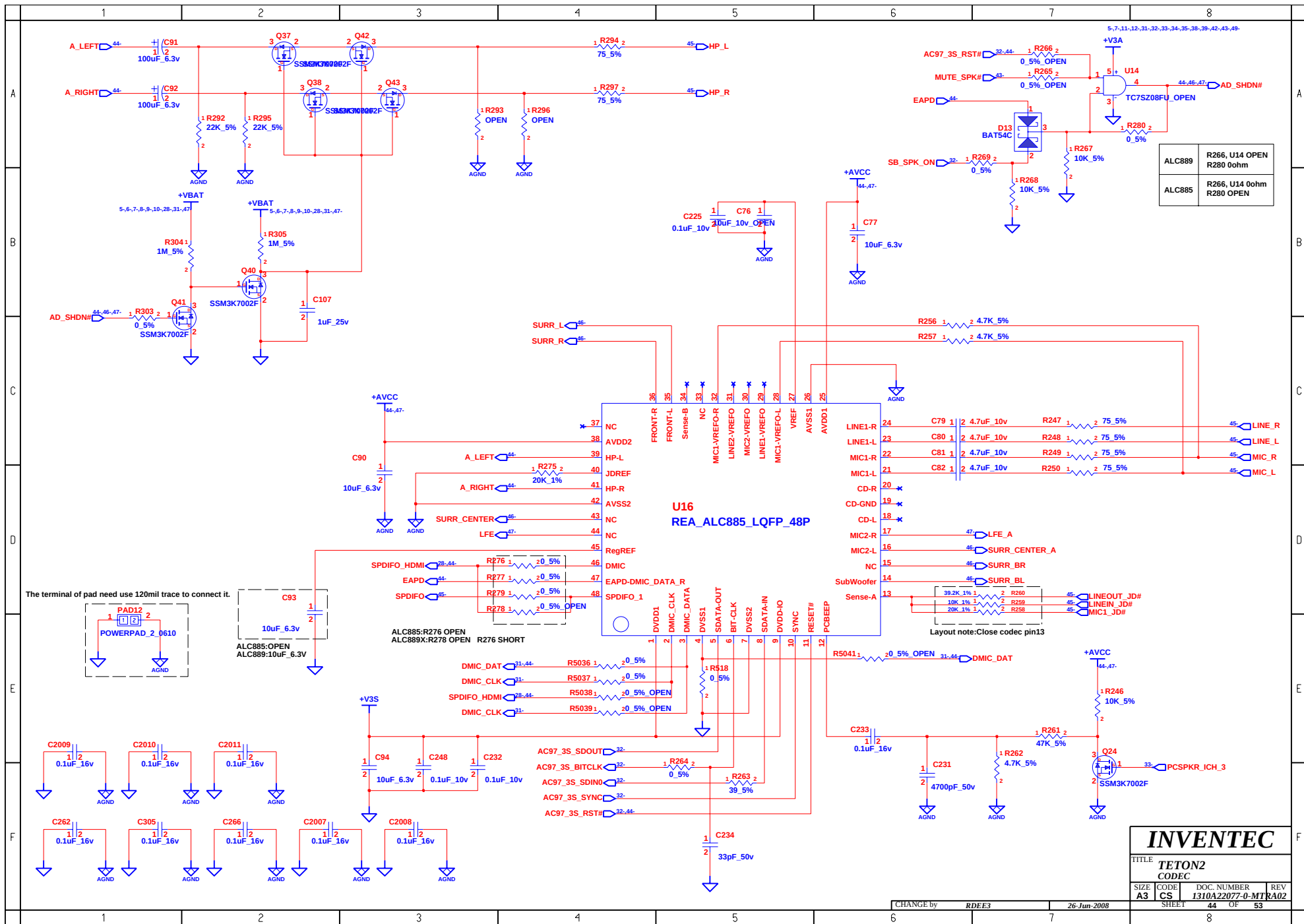
CHANGE by RDEE3 26-Jun-2008

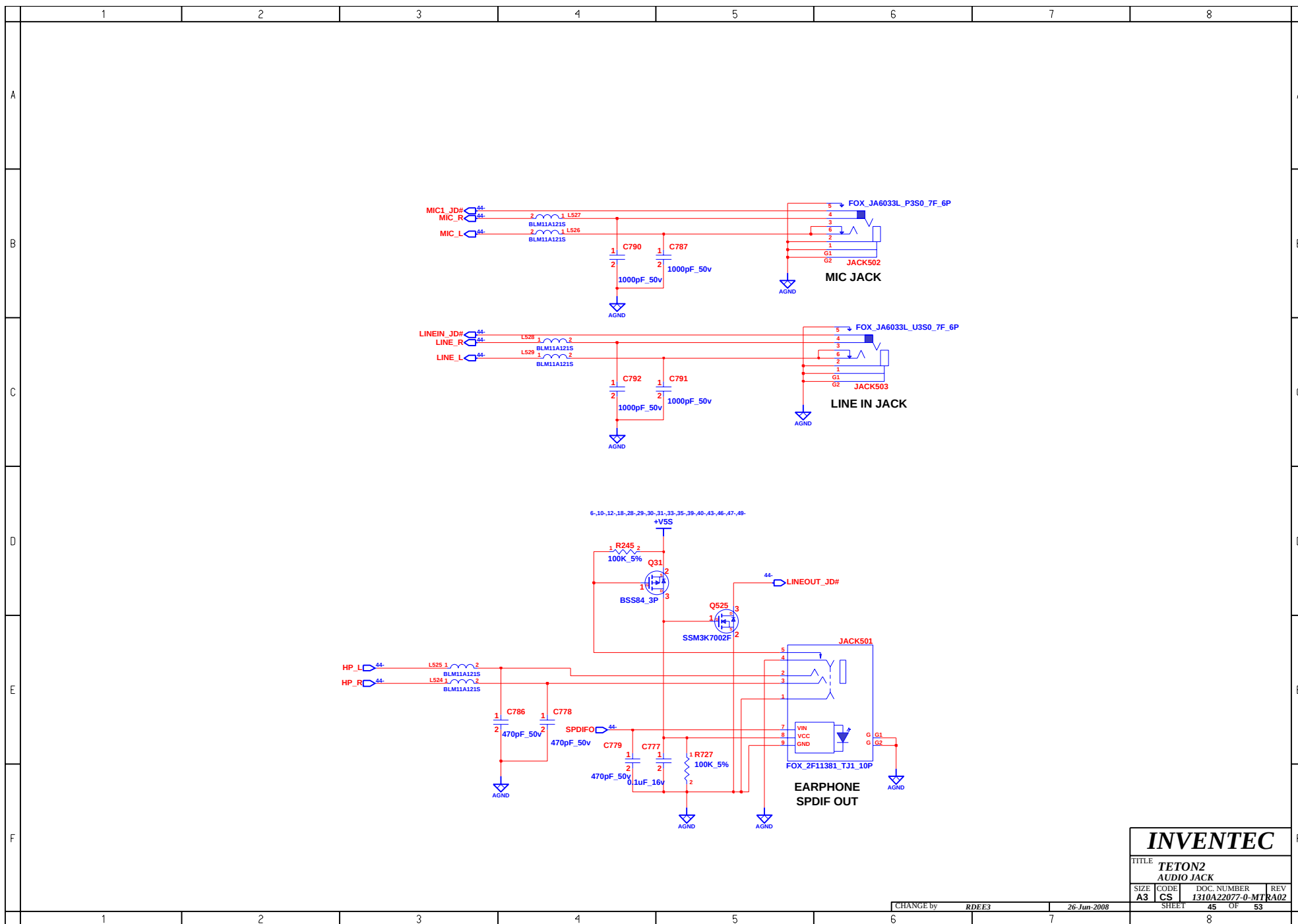
SHEET 40 OF 53

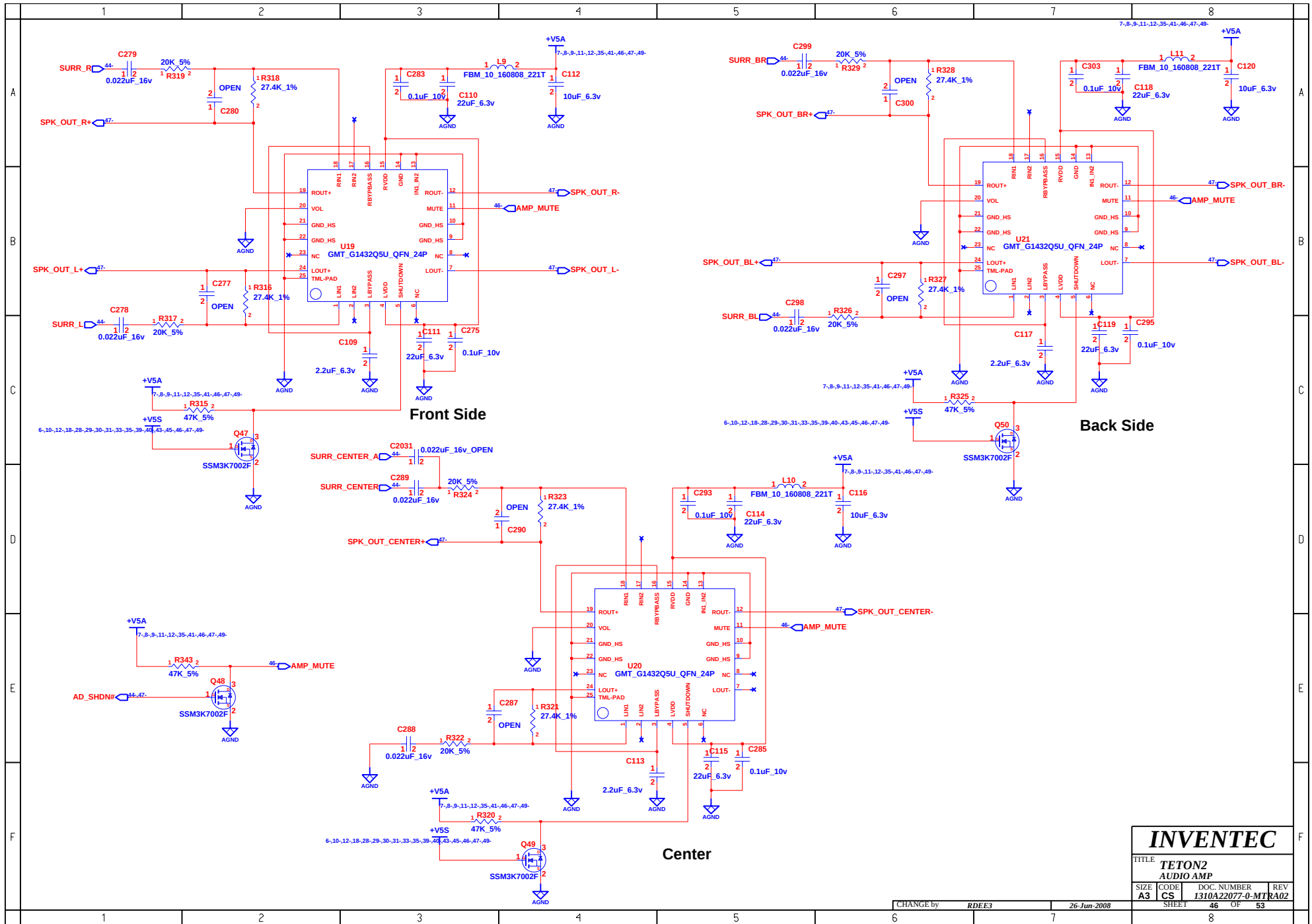


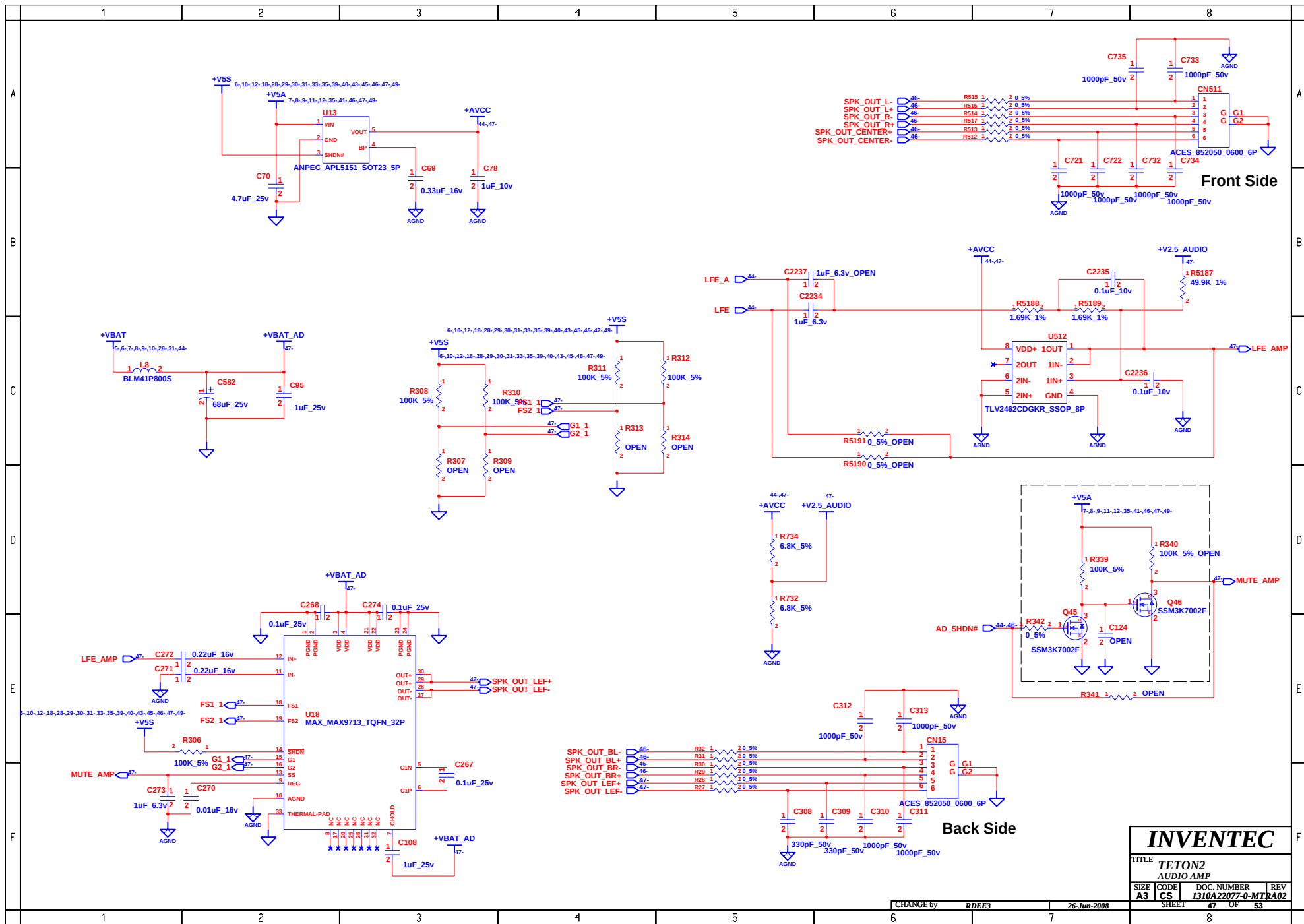


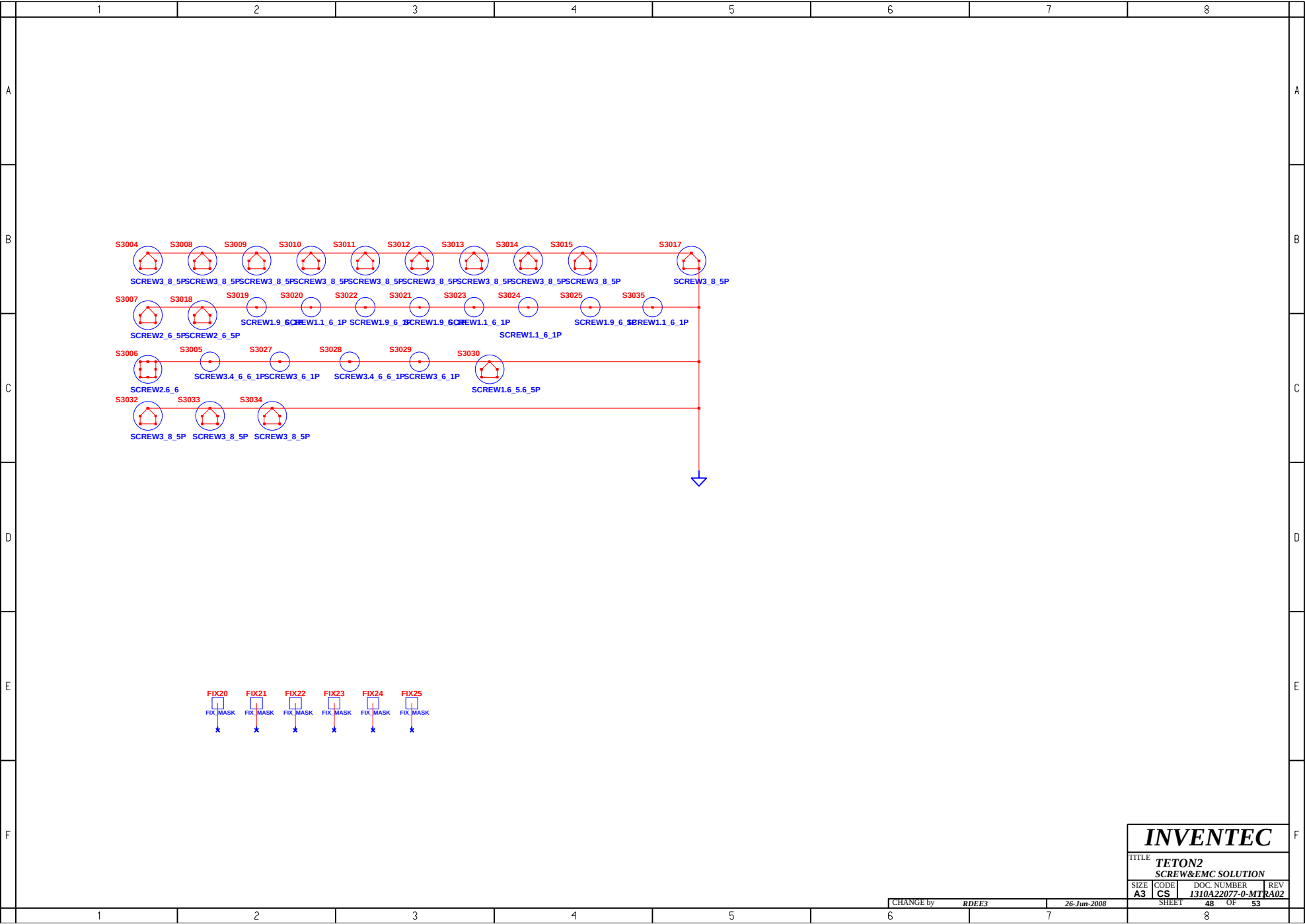










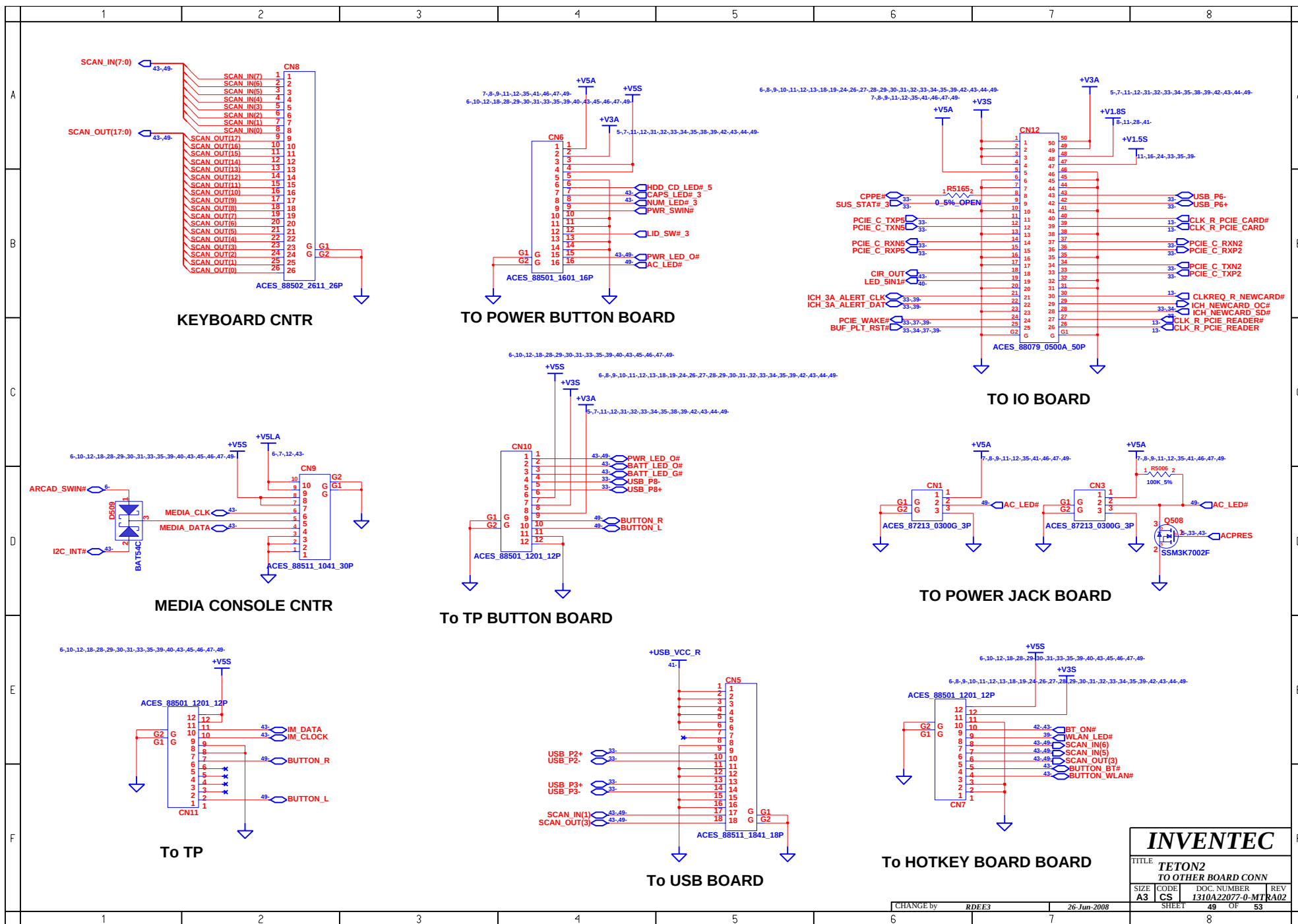


INVENTEC

TITLE			
TETON2			
SCREW&EMC SOLUTION			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310AZ2077-0-MT	RA02

CHANGE by RDEE3 26-Jun-2008

SHEET 48 OF 53



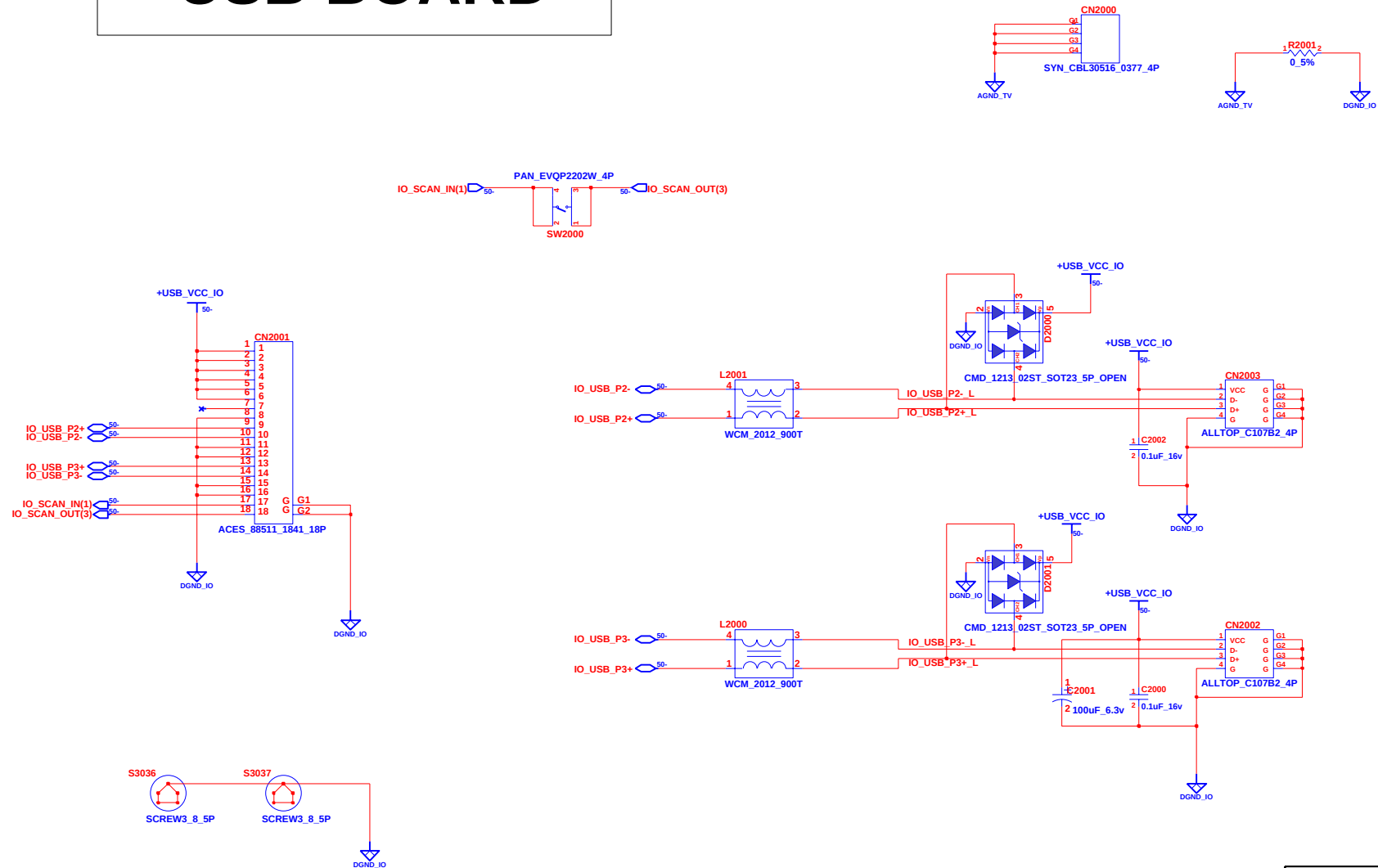
INVENTEC

TITLE TETON2 TO OTHER BOARD CONN			
SIZE A3	CODE CS	DOC. NUMBER I310AZ2077-0-MT	REV RA02
SHEET 49		OF 53	

CHANGE by RDEE3 26-Jun-2008

USB BOARD

TV ANT

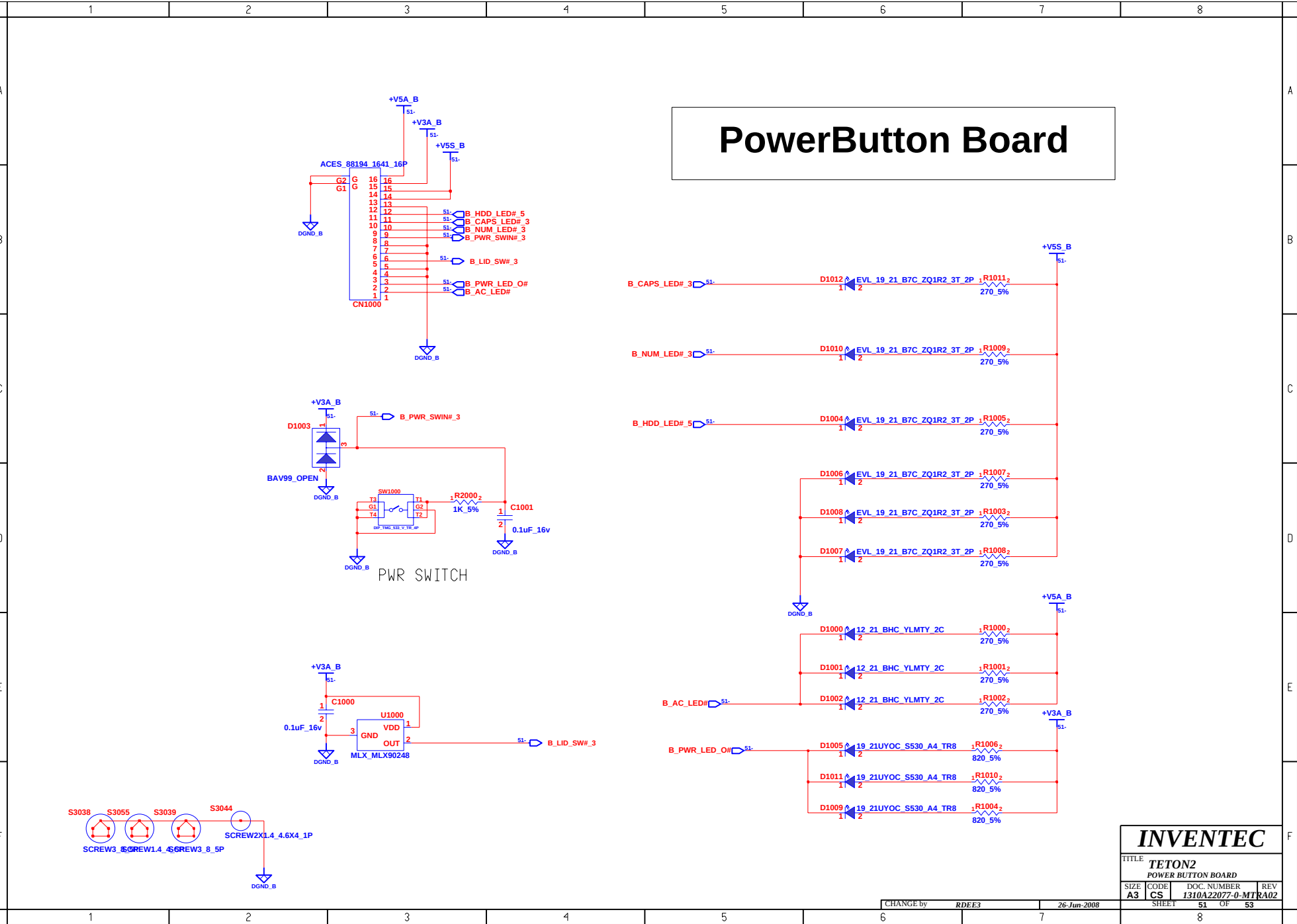


INVENTEC

TITLE TETON2 USB BOARD			
SIZE A3	CODE CS	DOC. NUMBER I310AZ2077-0-MTR	REV RA02
SHEET		50	OF 53

CHANGE by **RDEE3** 26-Jun-2008

PowerButton Board

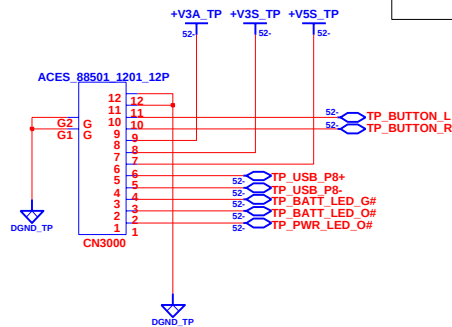


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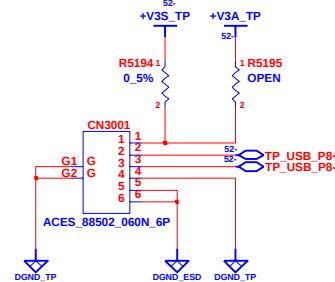
TITLE TETON2 POWER BUTTON BOARD			
SIZE A3	CODE CS	DOC. NUMBER I310AZ2077-0-MTR	REV RA02
SHEET 51		OF 53	

CHANGE by **RDEE3** 26-Jun-2008

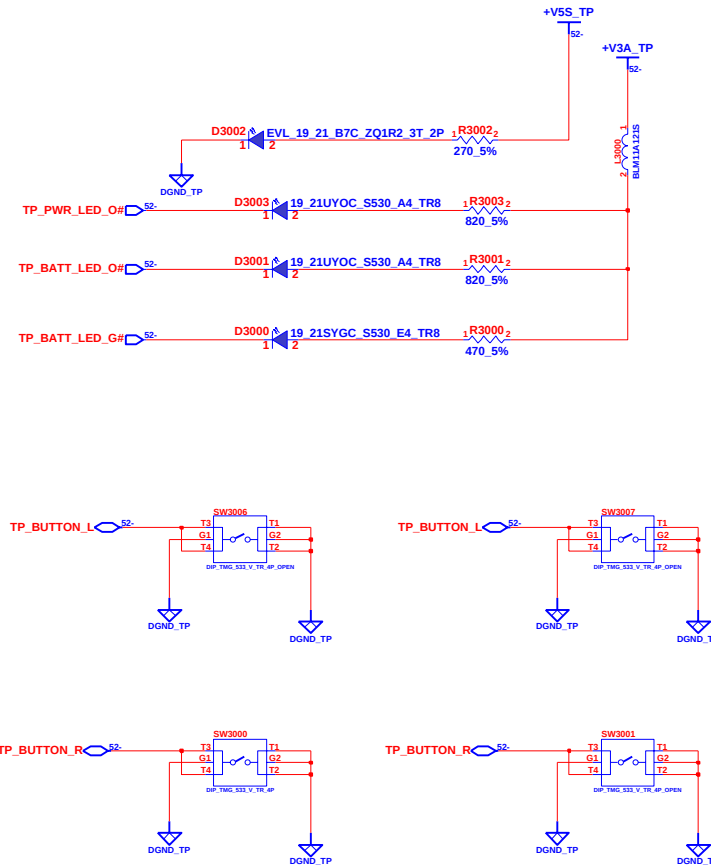
TOUCH PAD BUTTON BOARD



TO MB



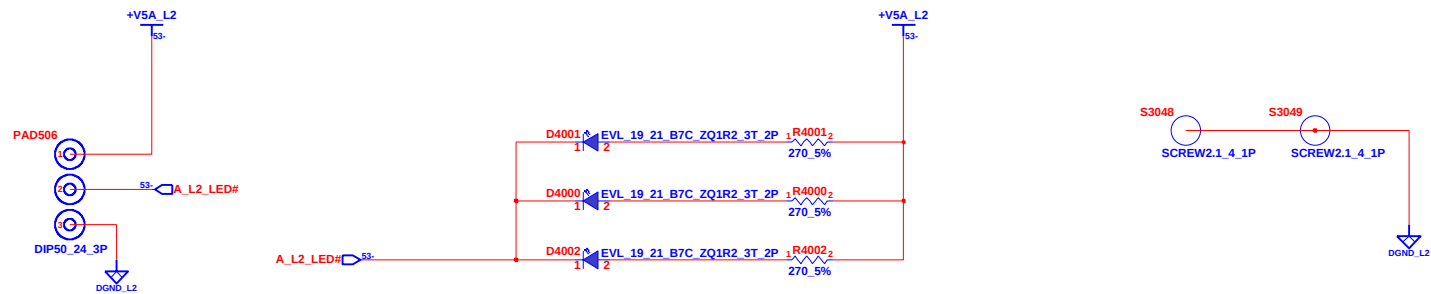
TO FINGER PRINT



INVENTEC			
TITLE TETON2 TH BUTTON BOARD			
SIZE A3	CODE CS	DOC. NUMBER I310A22077-0-MTR	REV A02
SHEET		52	OF 53

CHANGE by RDEE3 26-Jun-2008

HINGE LED Board 2



TITLE			
TETON2			
HINGE LED BOARD			
SIZE	CODE	DOC. NUMBER	REV
A3	CS	1310A22077-0-MTR	A02
SHEET		53	OF 53

CHANGE by	RDEE3	26-Jun-2008
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