



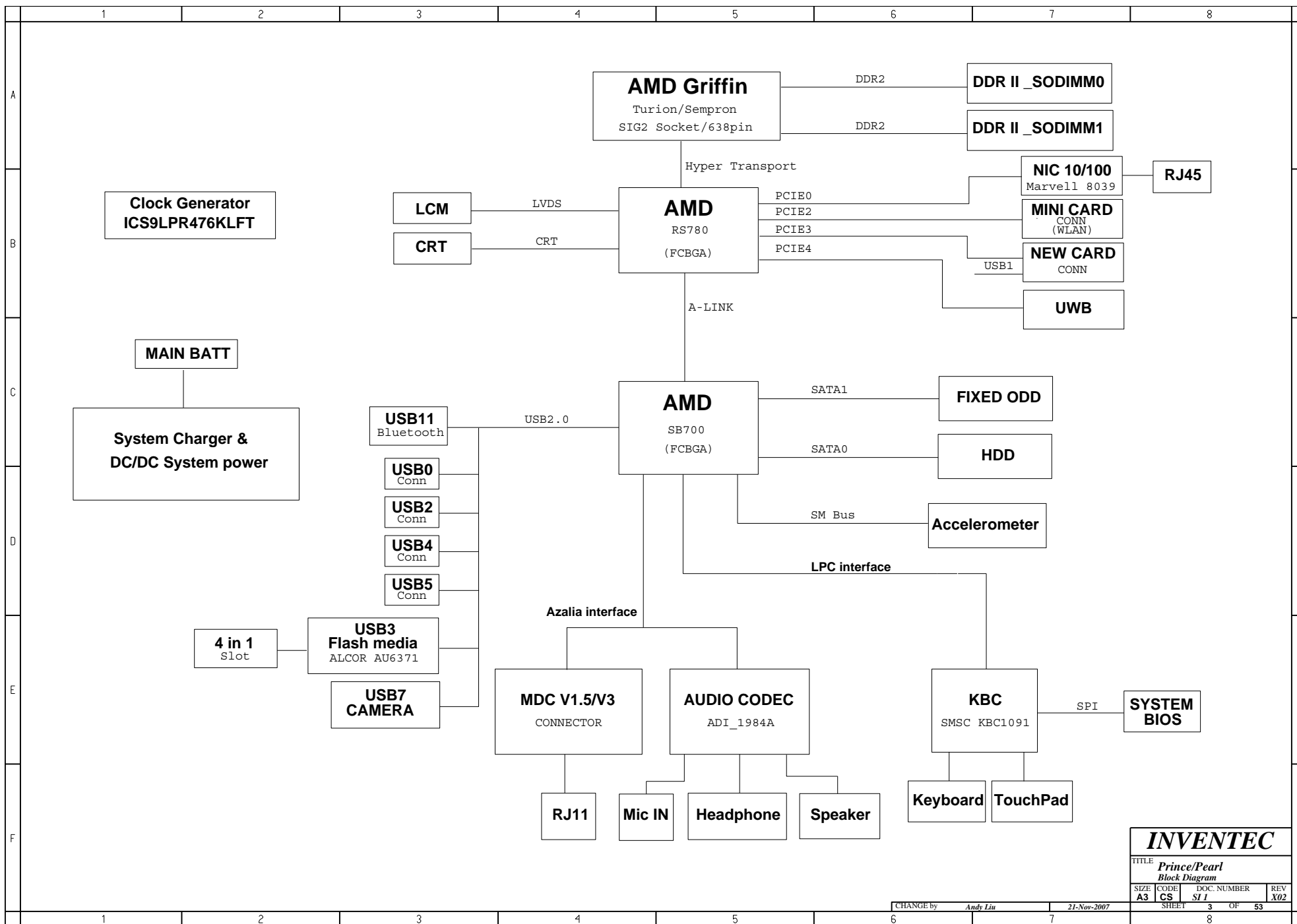


2008/02/14

| | | | | | | |
|---------------------------|--|----|------|-------|------|---|
| DRAWER | | EE | DATE | POWER | DATE |  |
| DESIGN | | | | | | |
| CHECK | | | | | | |
| RESPONSIBLE | | | | | | |
| TITLE <i>Prince/Pearl</i> | | | | | |  |
| SIZE 3 | | | | | | |
| FILE NAME: XXXX-XXXX-XX | | | | | | |
| P/N 1-XXXX-XXXX | | | | | | |
| VER: | | | | | |  |
| SIZE A3 | | | | | | |
| CODE CS1 | | | | | | |
| DOC. NUMBER SI 1 | | | | | | |
| REV X02 | | | | | |  |
| SHEET 1 OF 53 | | | | | | |
| DATE 11/11/2000 | | | | | | |
| TIME 10:00 | | | | | | |

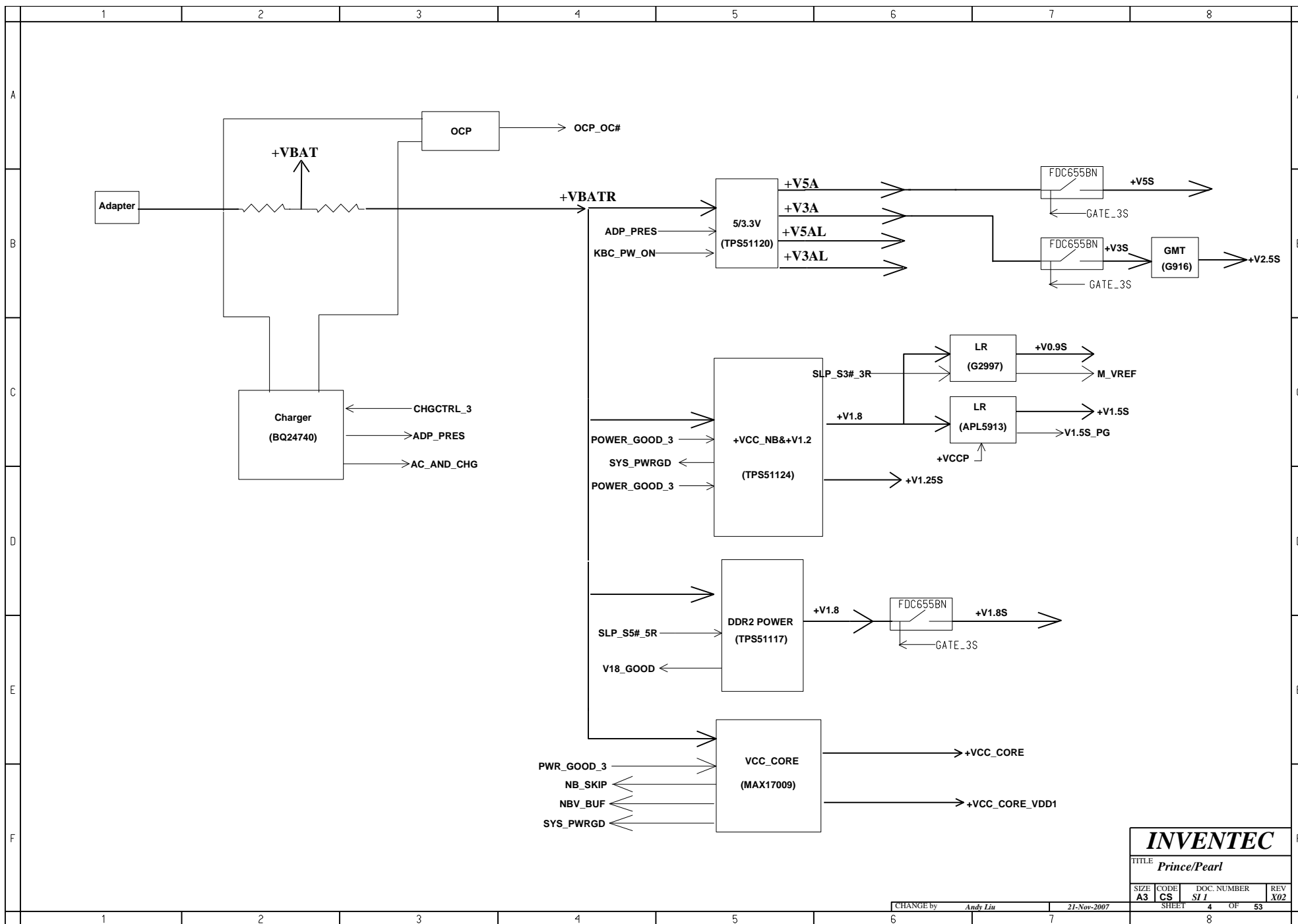
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|--------------------------------|--|------------------|--|---|---|---|---|---|---------|---------|------------------|---------|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |
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| C | | | | | | | | | | | | |
| D | | | | | | | | | | | | |
| E | | | | | | | | | | | | |
| F | | | | | | | | | | | | |
| CHANGE by Andy Liu 21-Nov-2007 | | | | | | <div><div>INVENTEC</div><div>TITLE Prince/Pearl Table Of Content</div><table><tr><td>SIZE A3</td><td>CODE CS</td><td>DOC. NUMBER SI 1</td><td>REV X02</td></tr></table><div>SHEET 2 OF 53</div></div> | | | SIZE A3 | CODE CS | DOC. NUMBER SI 1 | REV X02 |
| SIZE A3 | CODE CS | DOC. NUMBER SI 1 | REV X02 | | | | | | | | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | | |



INVENTEC

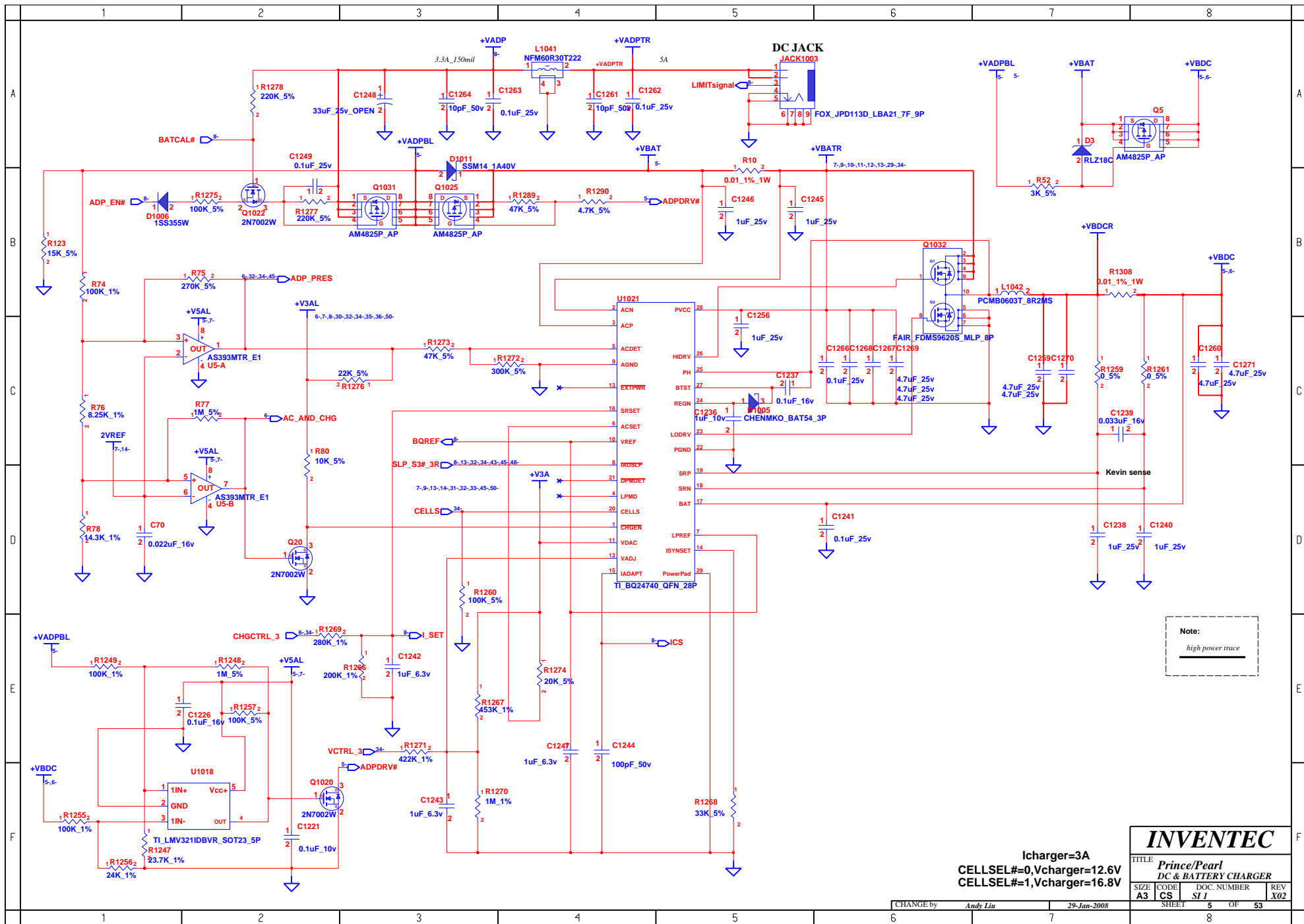
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|--|-------------------|----------------------------|-------------------|
| TITLE Prince/Pearl <i>Block Diagram</i> | | | |
| SIZE A3 | CODE CS | DOC. NUMBER SI 1 | REV X02 |
| SHEET 3 | | OF 53 | |

CHANGE by *Andy Liu* 21-Nov-2007



| INVENTEC | | | |
|--------------------|---------|-----------------|---------|
| TITLE Prince/Pearl | | | |
| SIZE A3 | CODE CS | DOC. NUMBER S11 | REV X02 |
| SHEET 4 | | OF 53 | |

CHANGE by Andy Liu 21-Nov-2007



Icharger=3A
CELLSEL#=0,Vcharger=12.6V
CELLSEL#=1,Vcharger=16.8V

INVENTEC

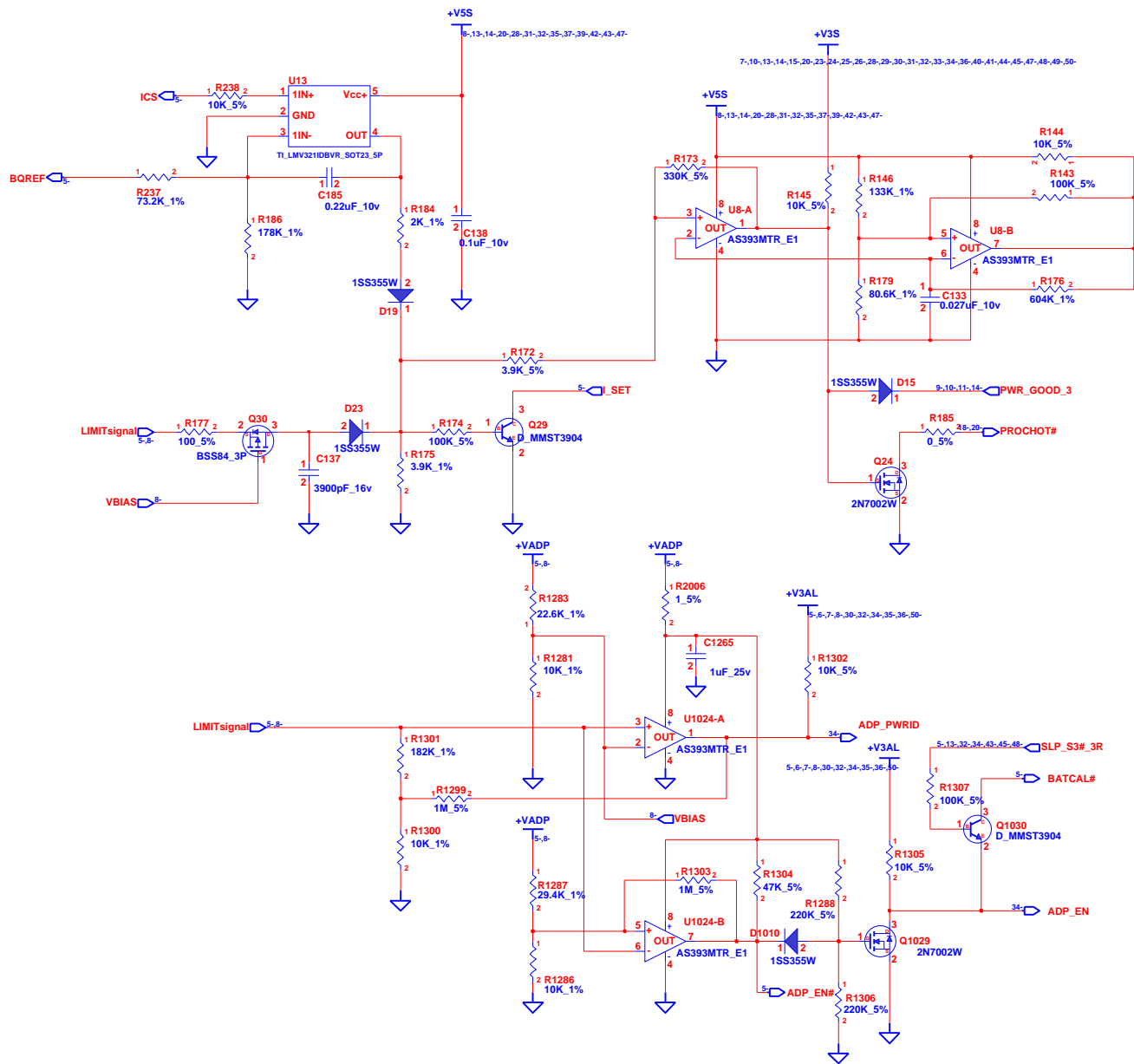
TITLE: Prince/Pearl
DC & BATTERY CHARGER

| SIZE | CODE | DOC. NUMBER | REV |
|------|------|-------------|-----|
| A3 | CS | SI 1 | X02 |

CHANGE by Andy Liu 29-Jan-2008

SHEET 5 OF 53

| | |
|-------|---------|
| CS | SIT |
| SHEET | 7 OF 53 |



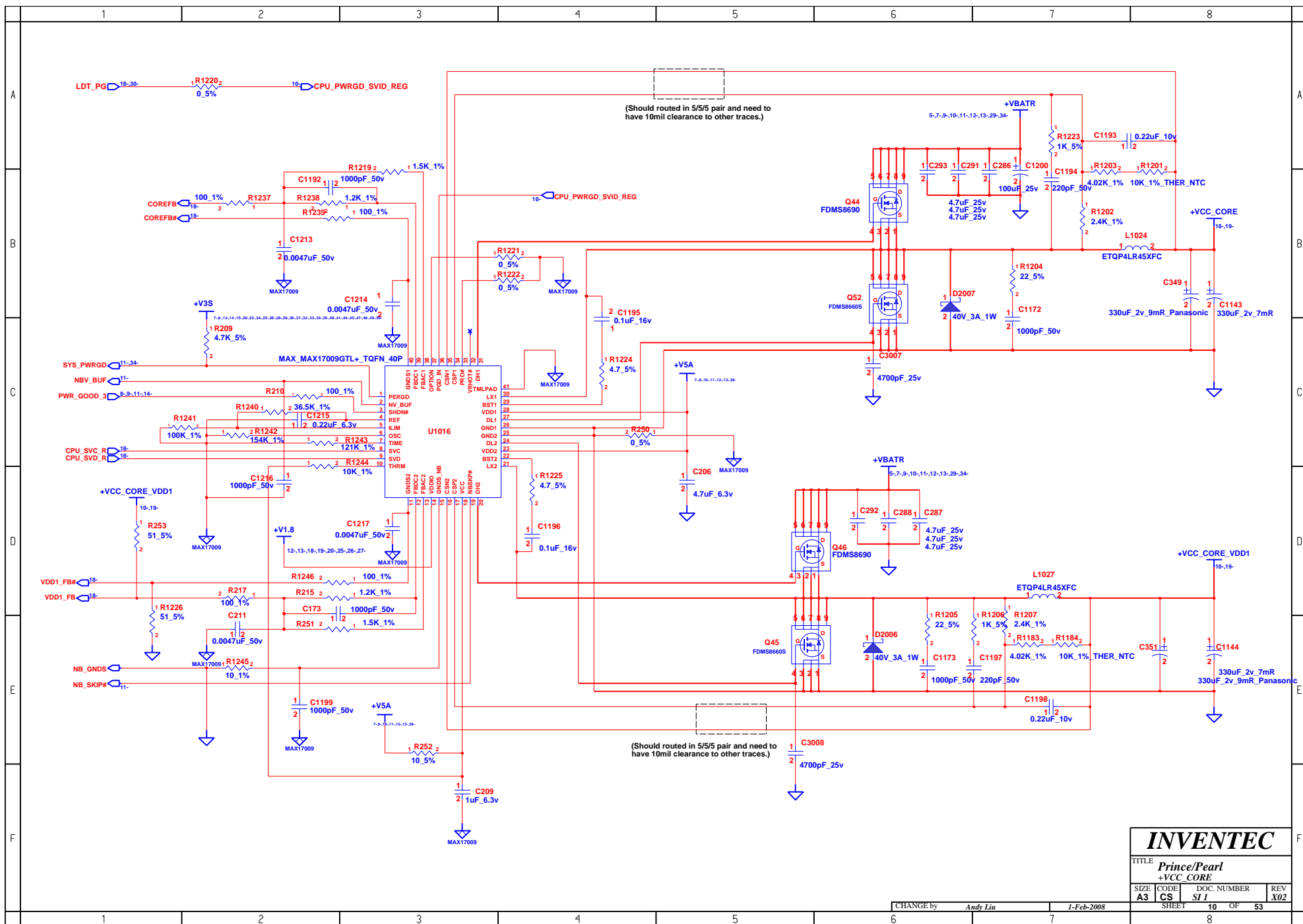
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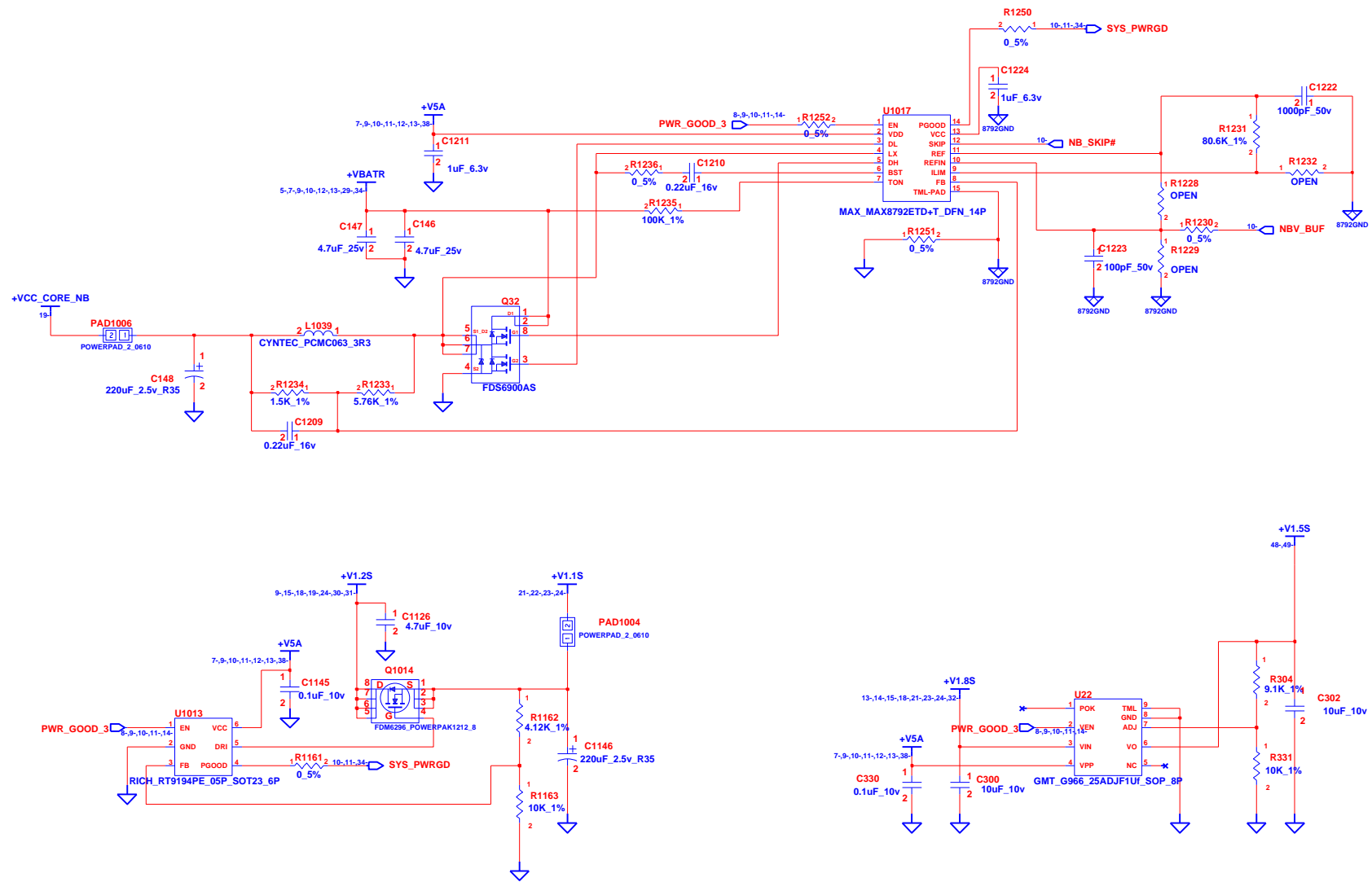
TITLE
**Prince/Pearl
OCP**

| SIZE | CODE | DOC. NUMBER | REV |
|------|------|-------------|-----|
| A3 | CS | SI 1 | X02 |

CHANGE by Andy Liu 22-Jan-2008

SHEET 8 OF 53





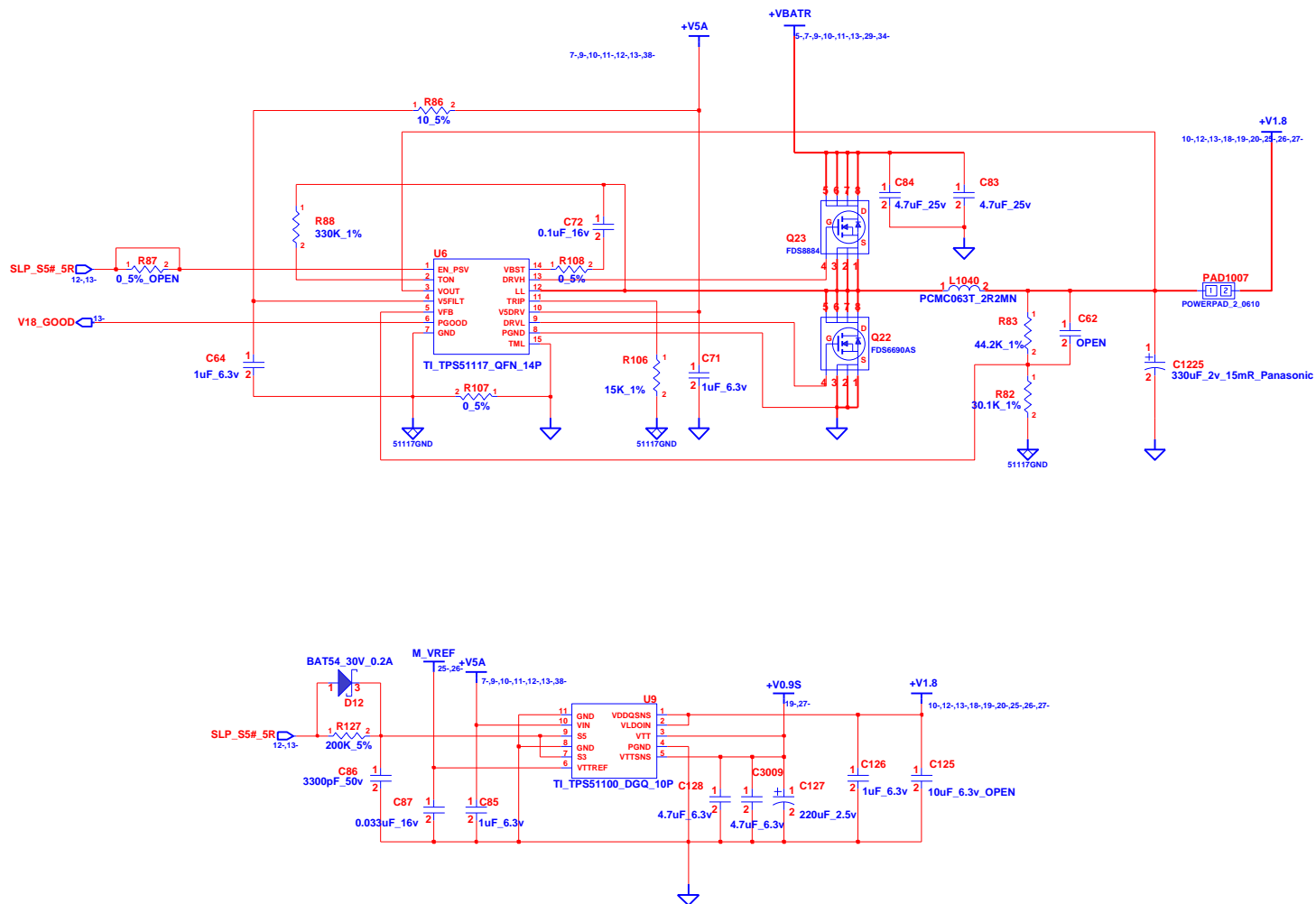
INVENTEC

TITLE
**Prince/Pearl
POWER**

| SIZE | CODE | DOC. NUMBER | REV |
|------|------|-------------|-----|
| A3 | CS | SI 1 | X02 |

CHANGE by Andy Liu 22-Nov-2007

SHEET 11 OF 53



NOTE: DDR2 REGULATOR

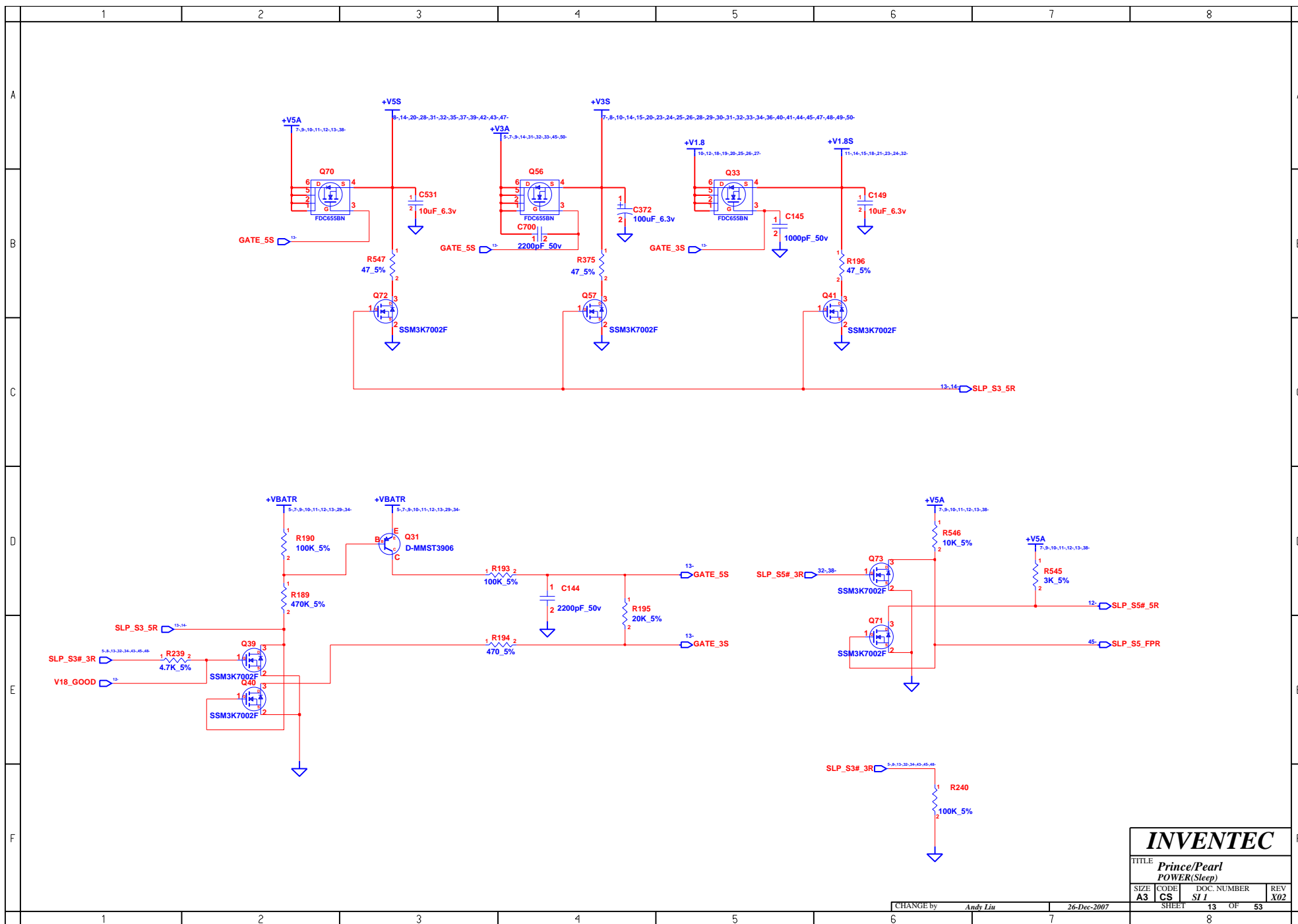
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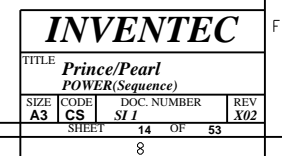
TITLE
**Prince/Pearl
DDR2 POWER**

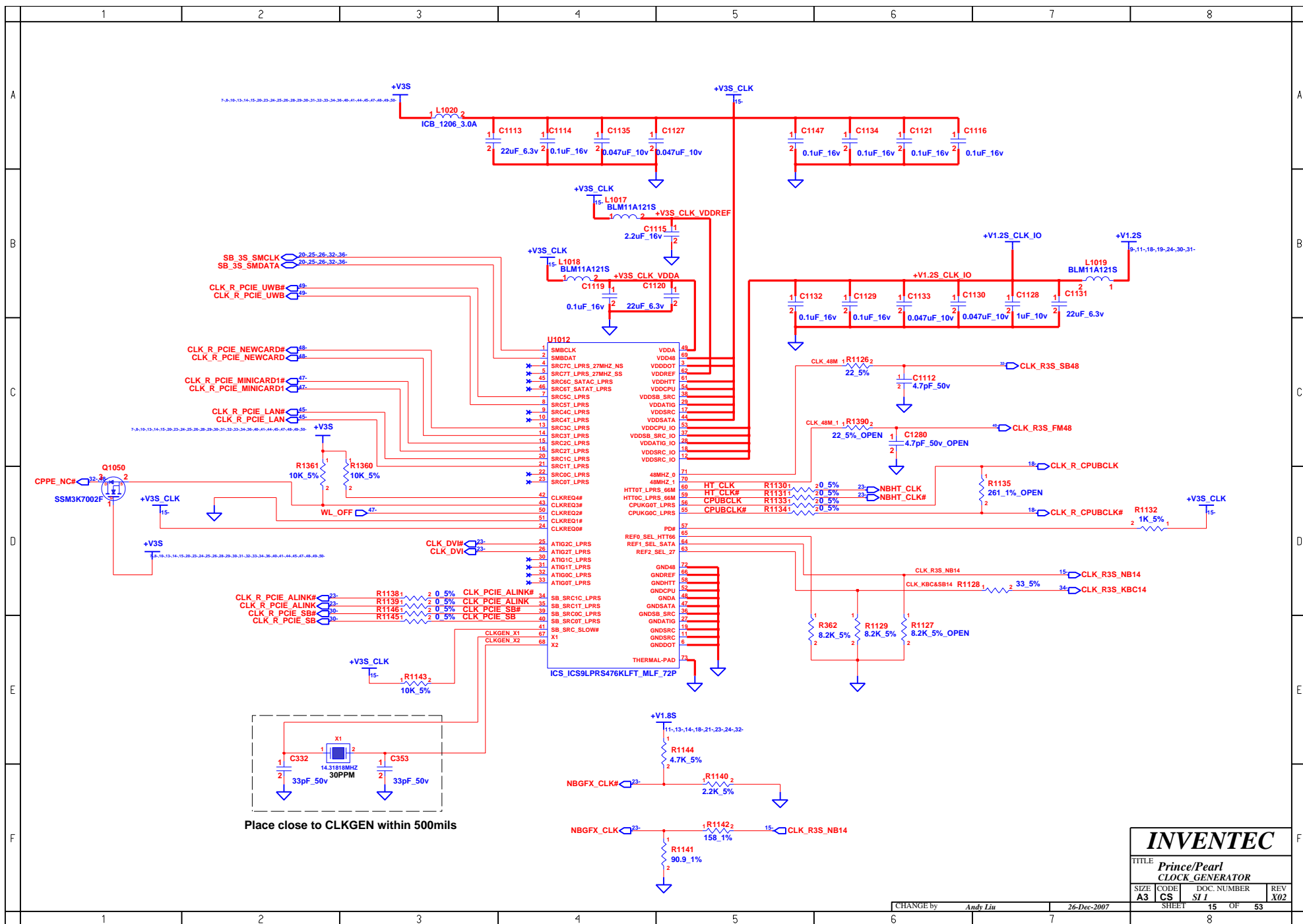
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|------|------|-------------|-----|
| A3 | CS | SI 1 | X02 |

CHANGE by Andy Liu 21-Nov-2007

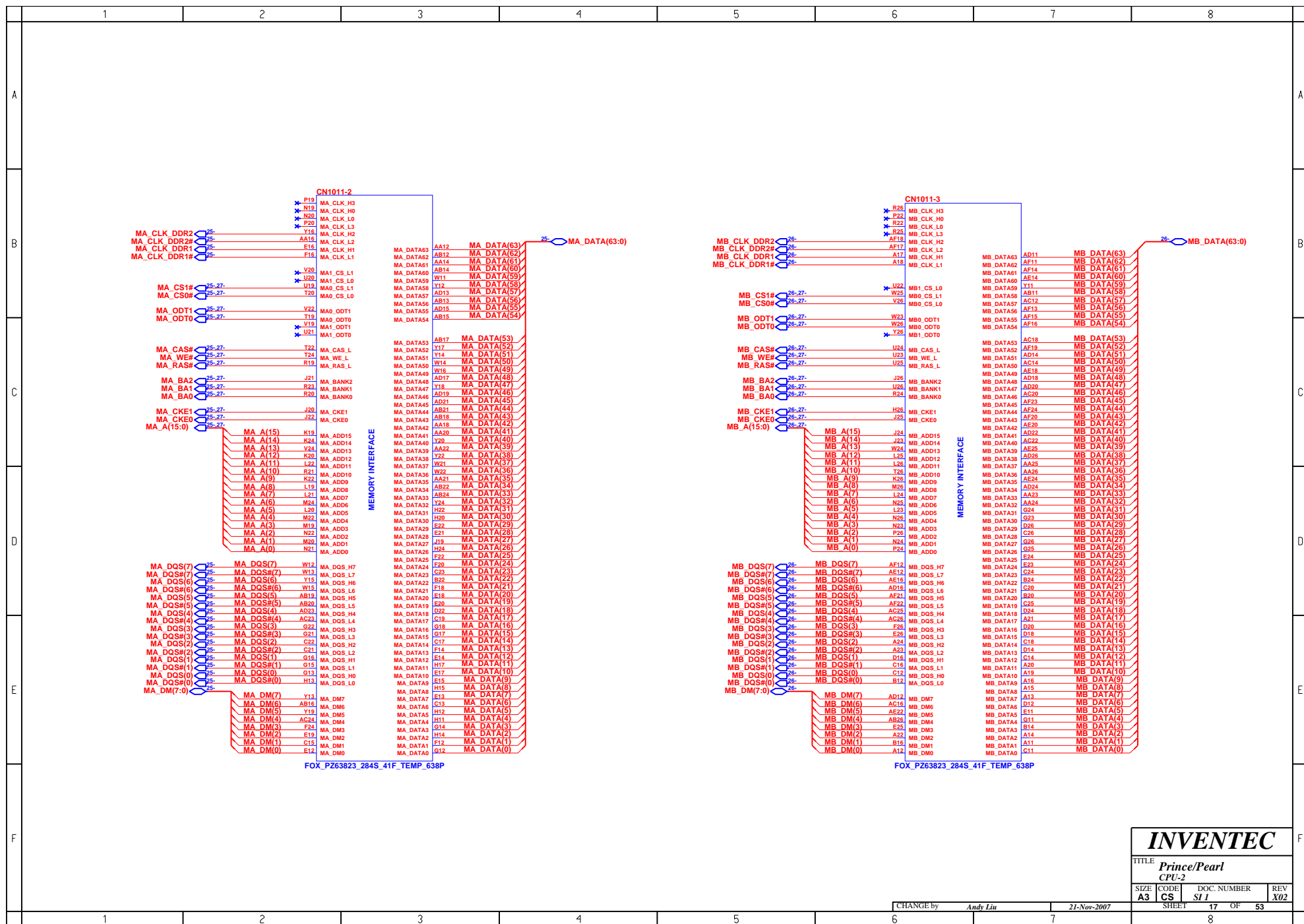
SHEET 12 OF 53

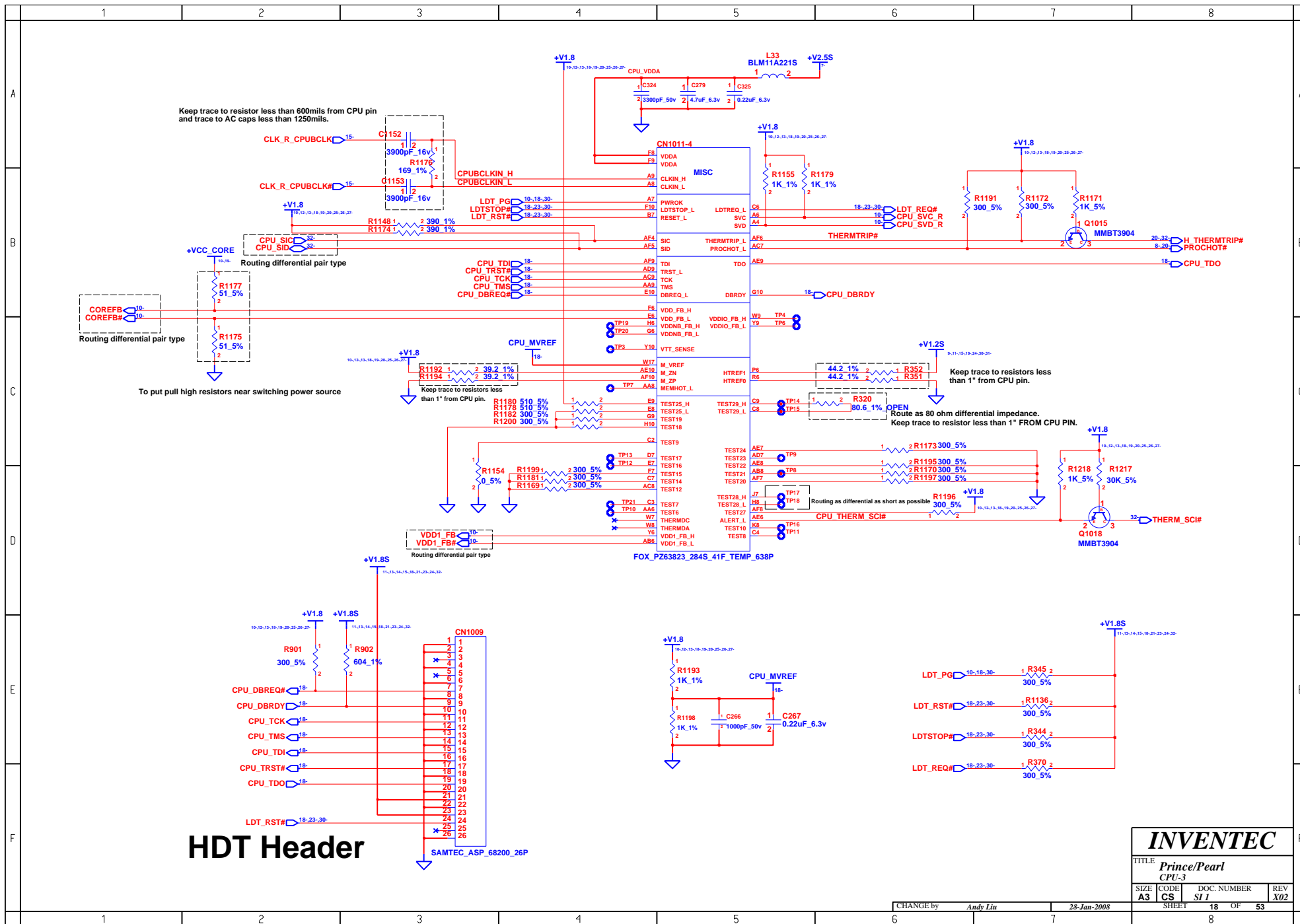


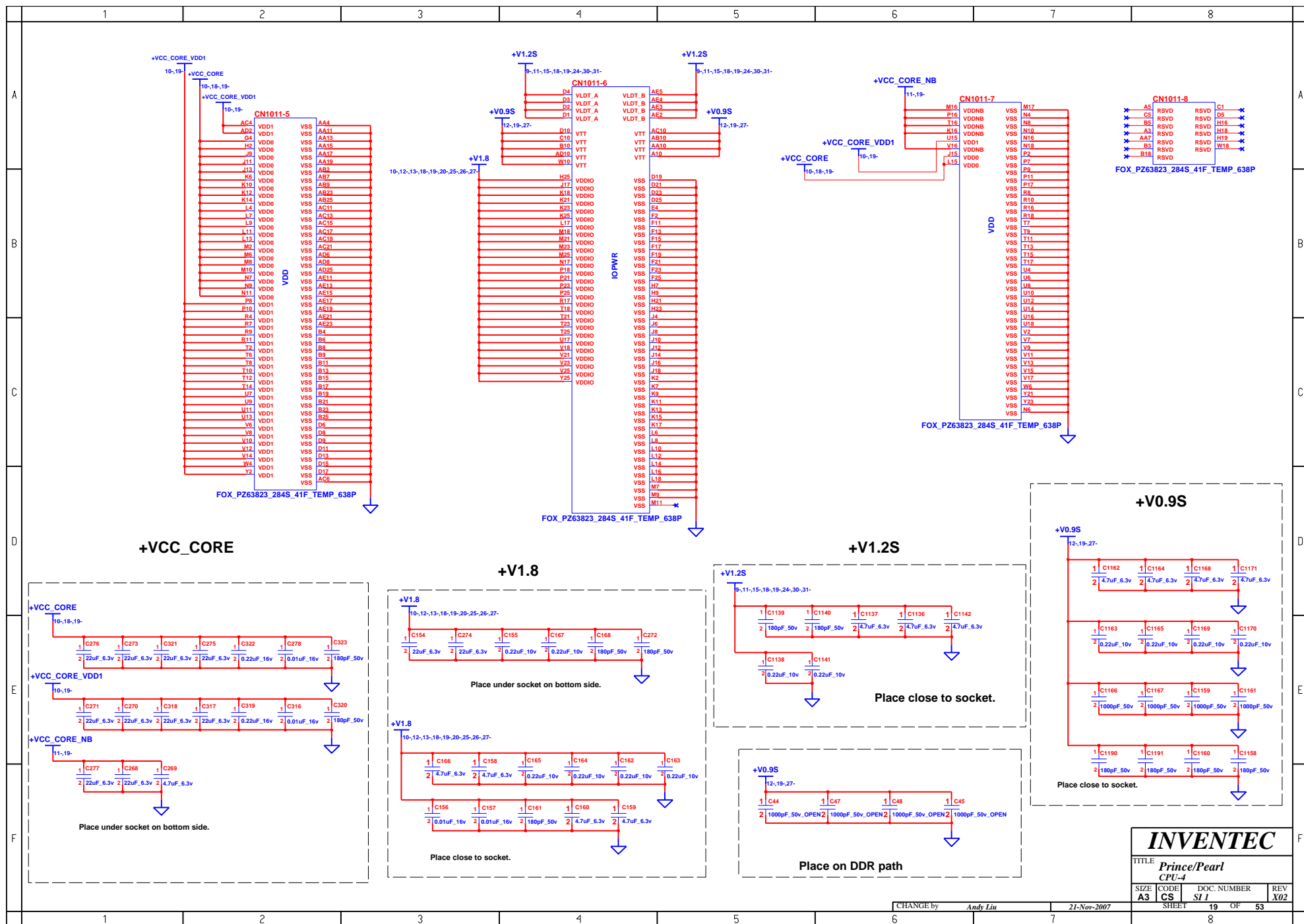


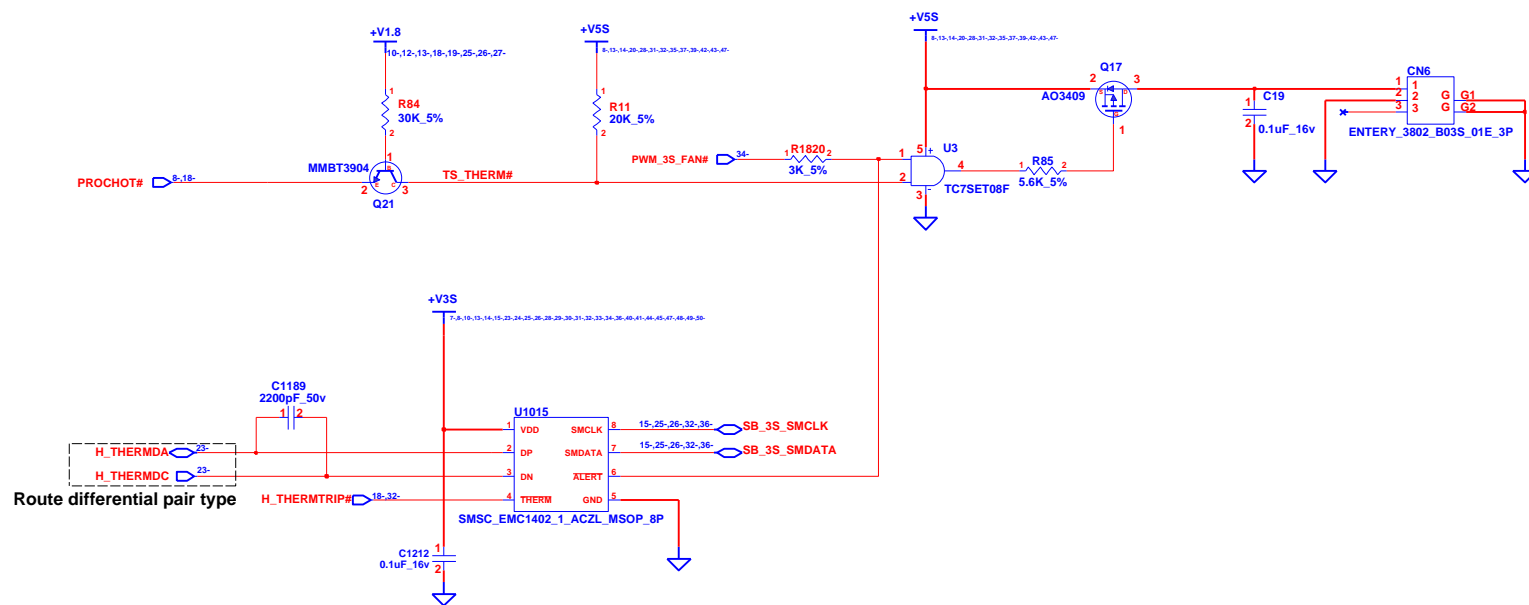






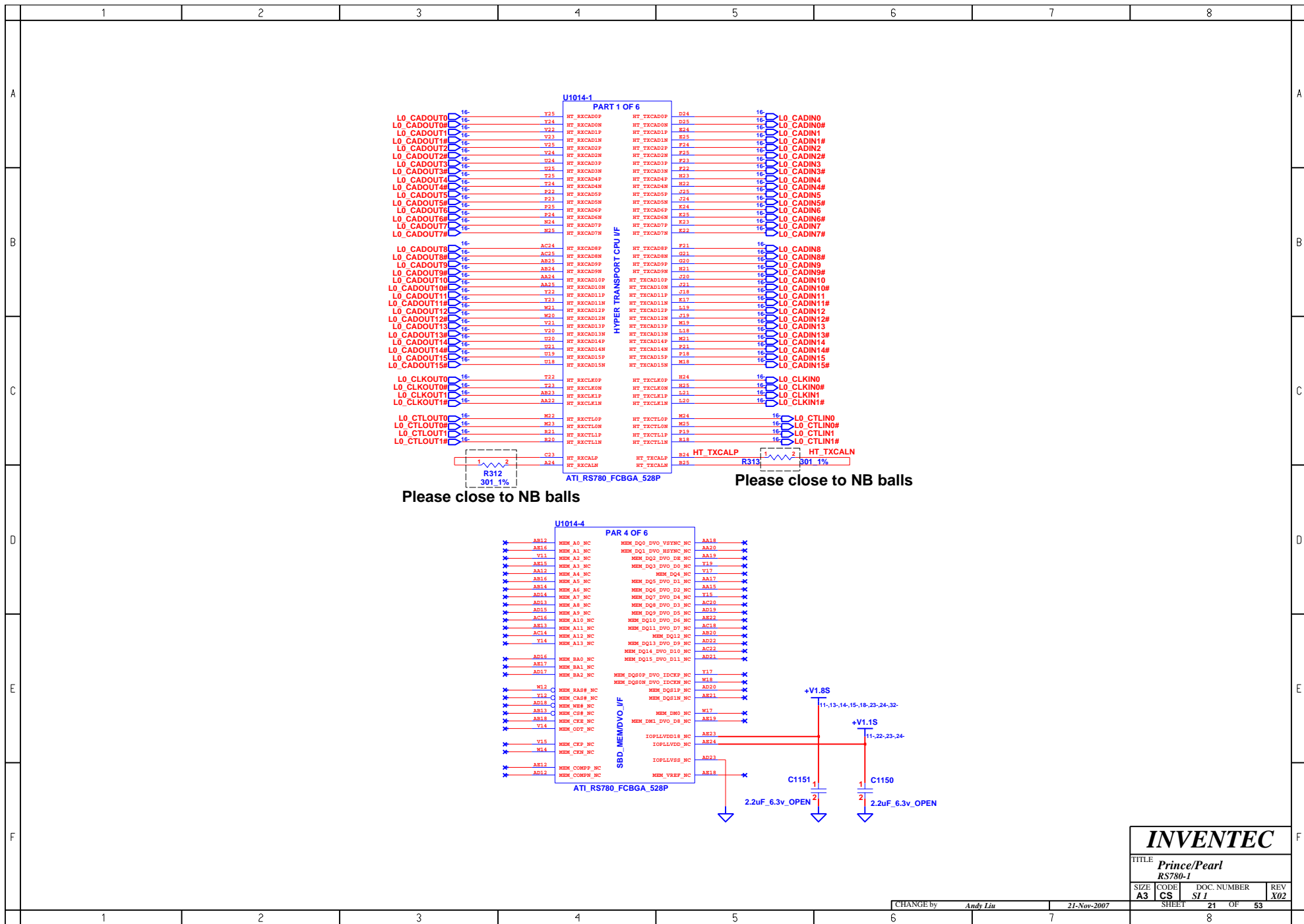






LAYOUT Note: Put the thermal sensor close to CPU.

| INVENTEC | | | |
|--------------------------|---------|------------------|---------|
| TITLE Prince/Pearl | | | |
| THERMAL & FAN CONTROLLER | | | |
| SIZE A3 | CODE CS | DOC. NUMBER SI 1 | REV X02 |
| CHANGE by Andy Liu | | 26-Nov-2007 | |
| SHEET 20 | | OF 53 | |
| 1 | | 8 | |



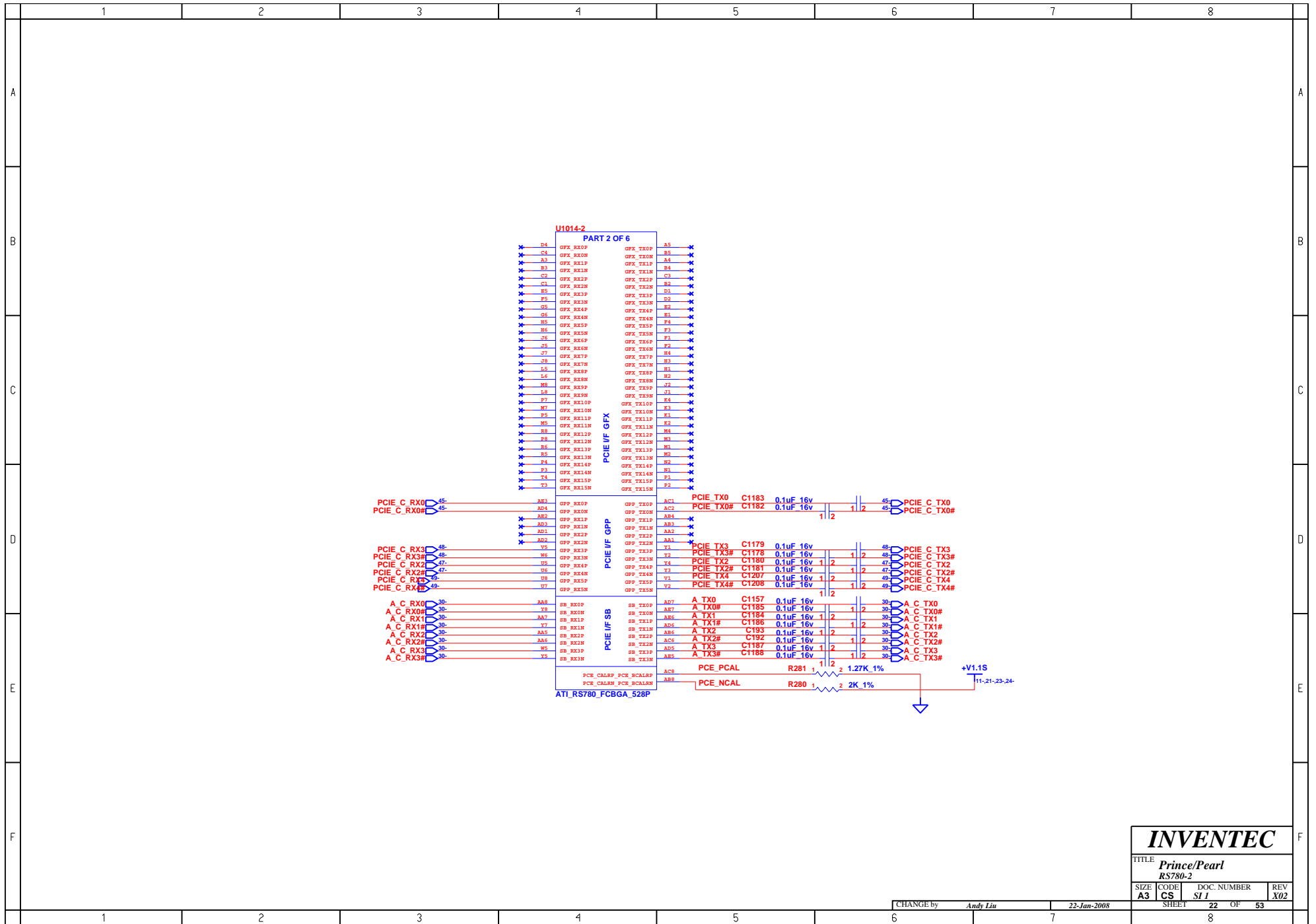
INVENTEC

TITLE
**Prince/Pearl
RS780-1**

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|-------------------|-------------------|----------------------------|-------------------|
| SIZE A3 | CODE CS | DOC. NUMBER SI 1 | REV X02 |
|-------------------|-------------------|----------------------------|-------------------|

| | |
|--------------------|-----------------|
| SHEET 21 | OF 53 |
|--------------------|-----------------|

CHANGE by **Andy Liu** **21-Nov-2007**



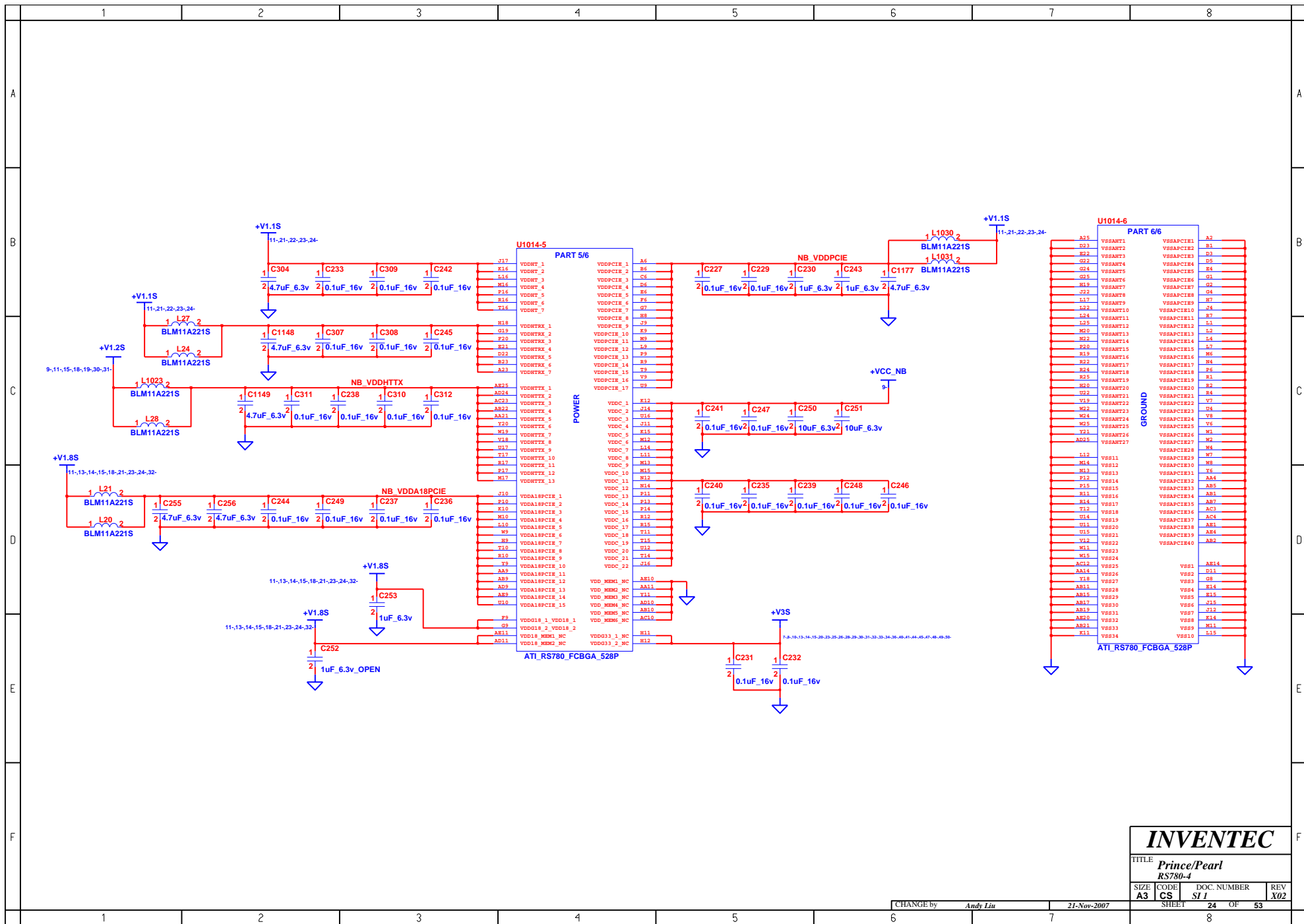
INVENTEC

TITLE
Prince/Pearl
RS780-2

SIZE CODE DOC. NUMBER REV
A3 CS S11 22 OF 53 X02

CHANGE by Andy Liu 22-Jan-2008

SHEET 22 OF 53

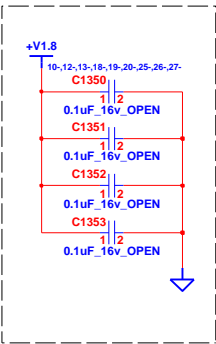


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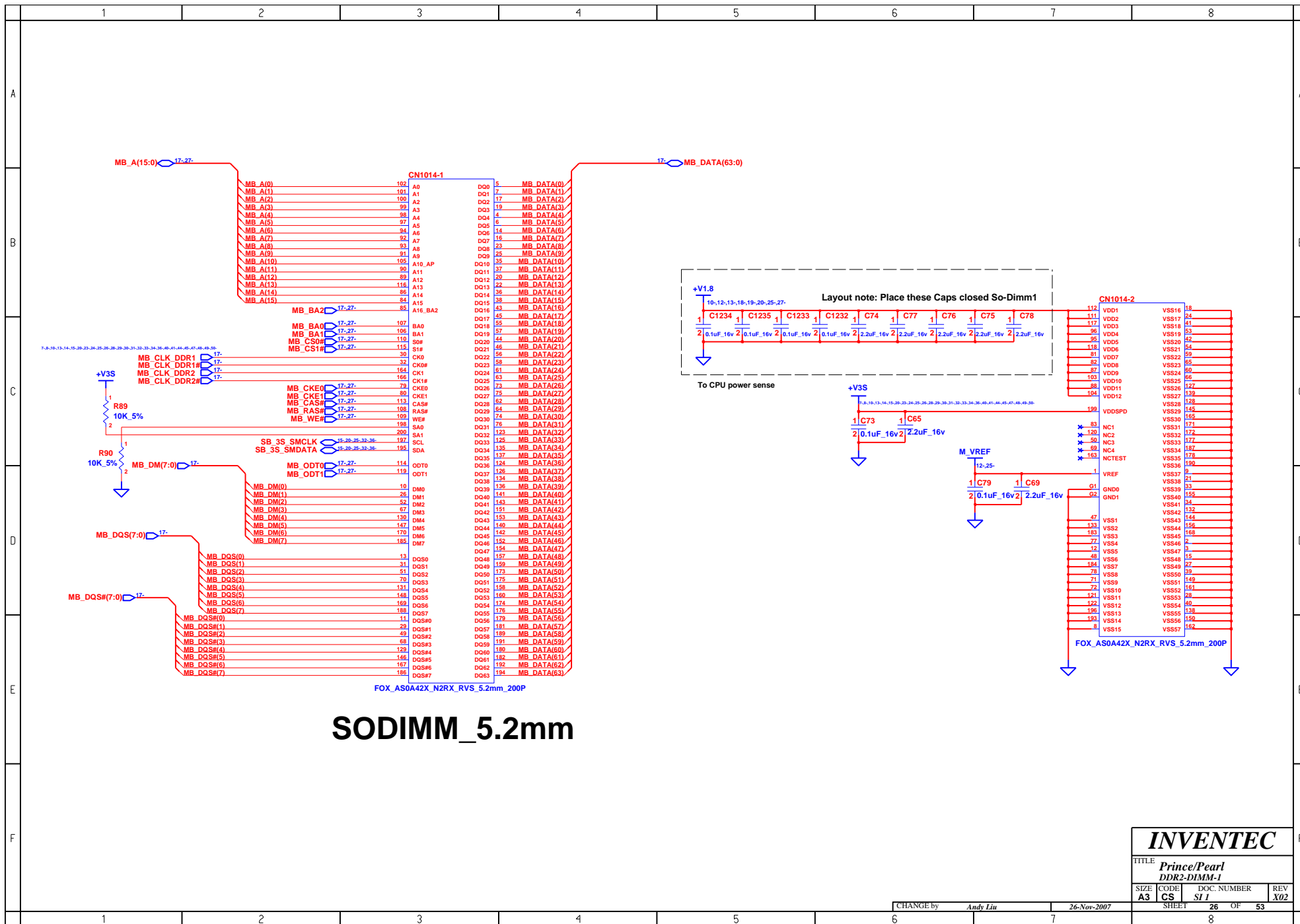
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| SIZE A3 | CODE CS | DOC. NUMBER SI 1 | REV X02 |

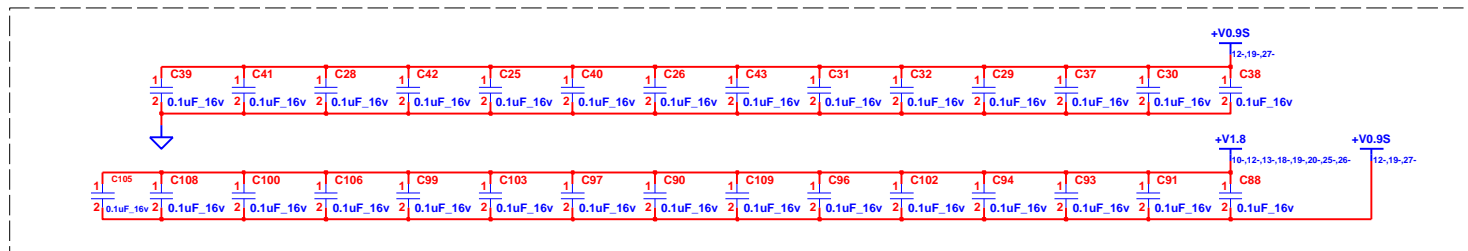
CHANGE by Andy Liu 21-Nov-2007

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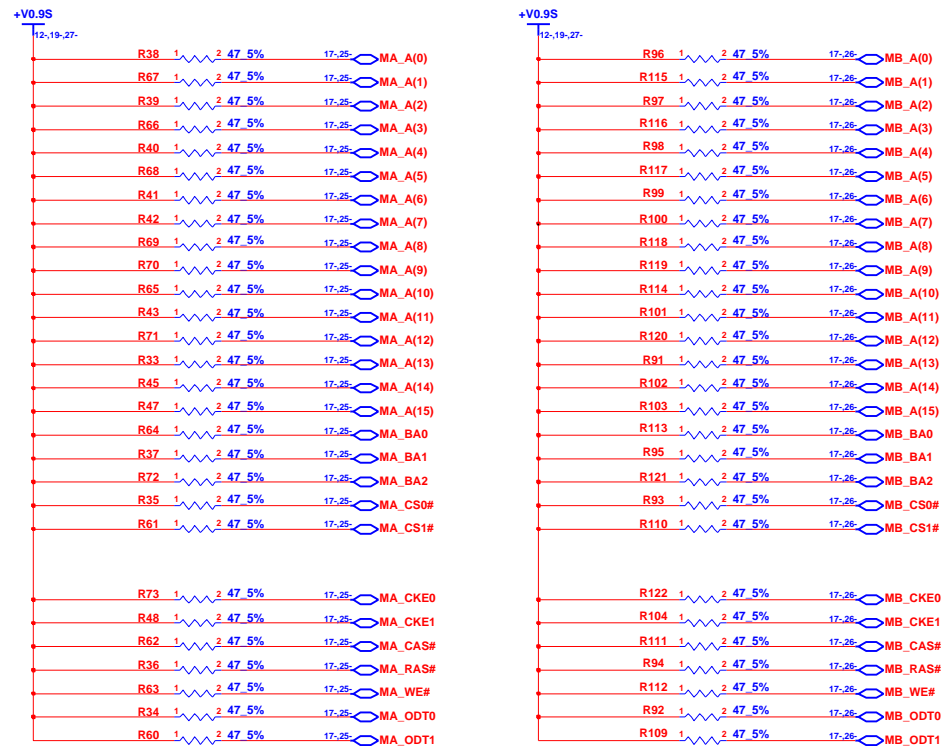


Q



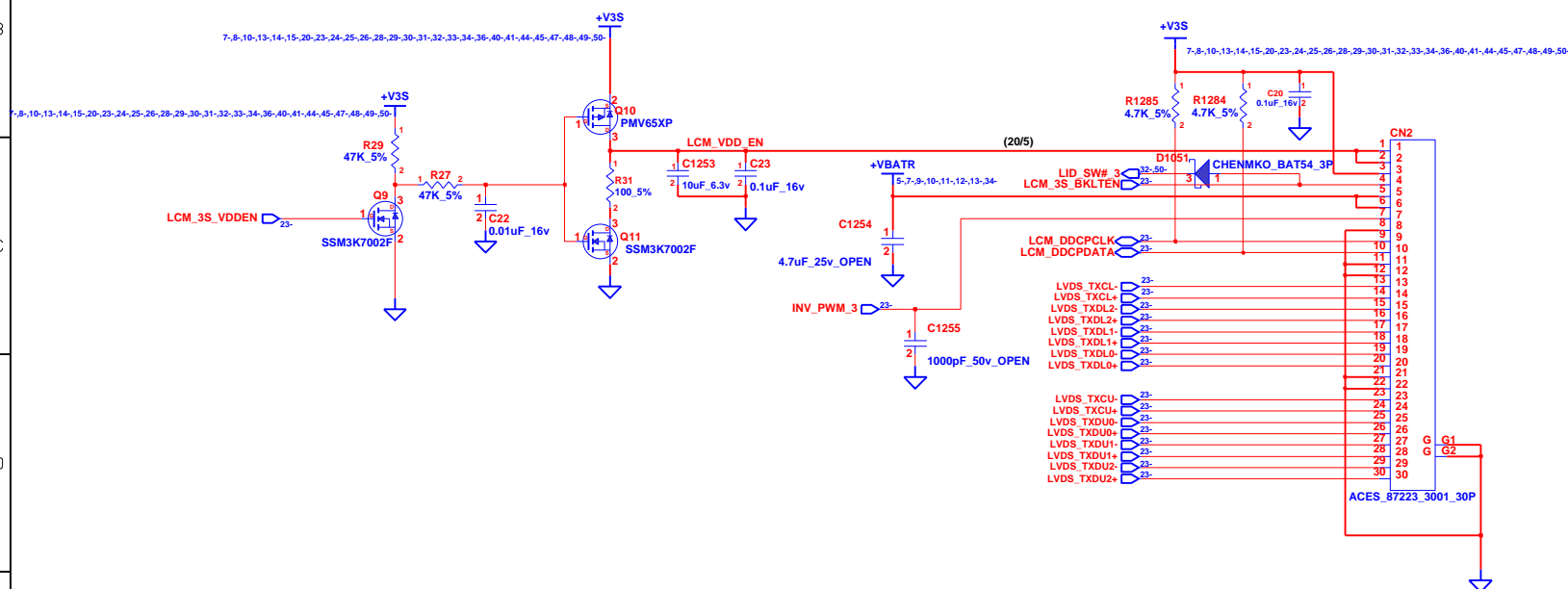


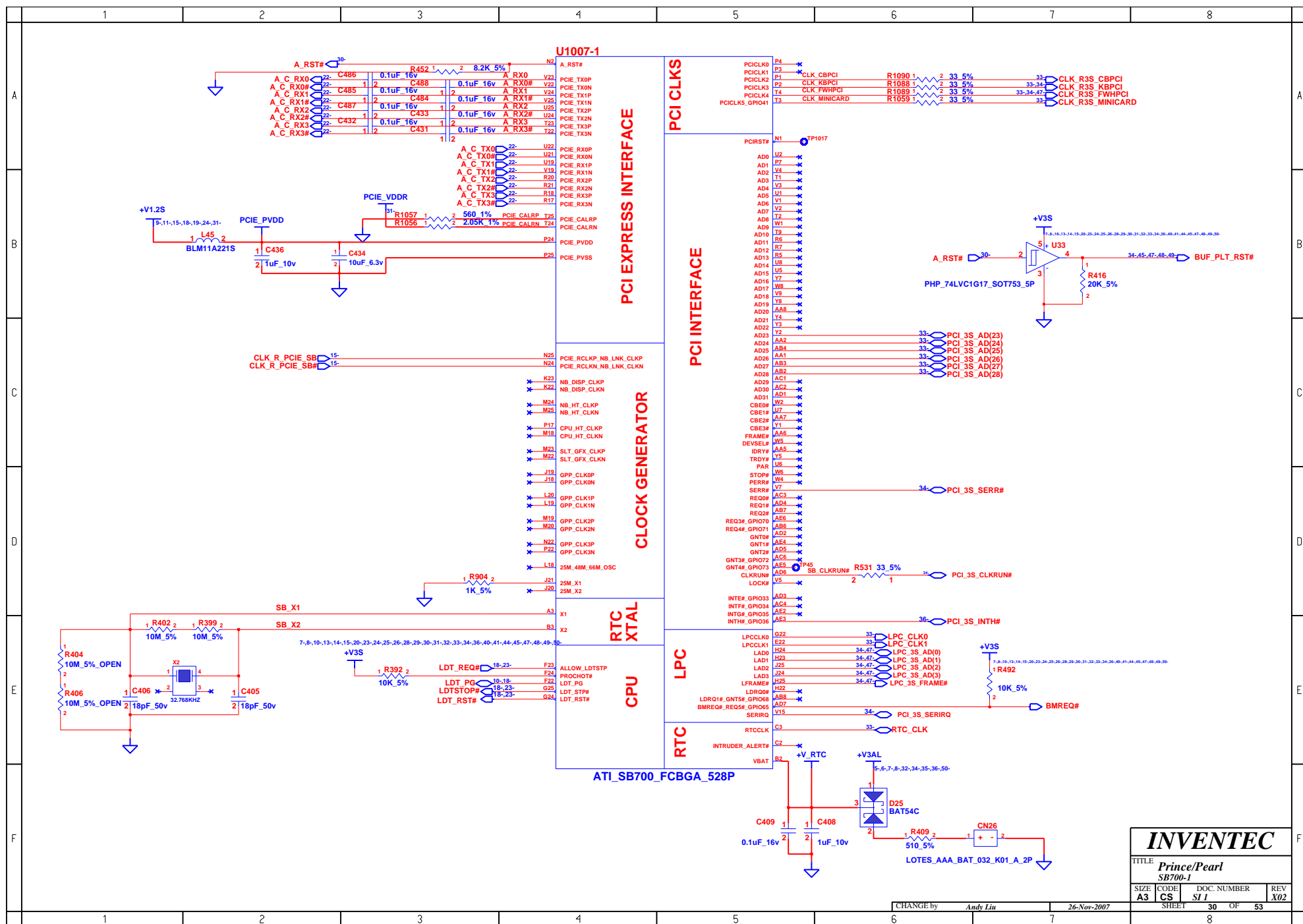
Place CAPs close to DIMM

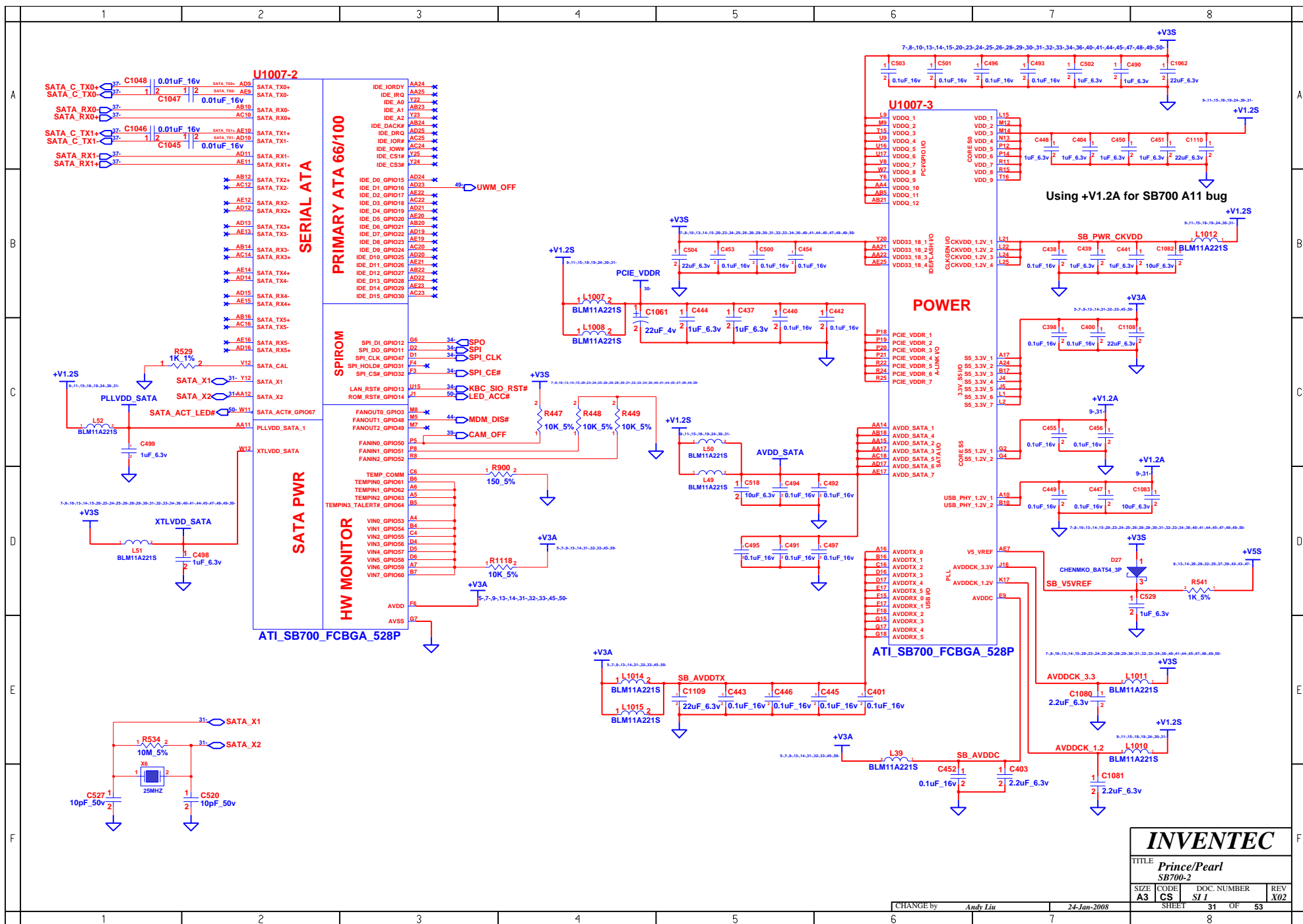
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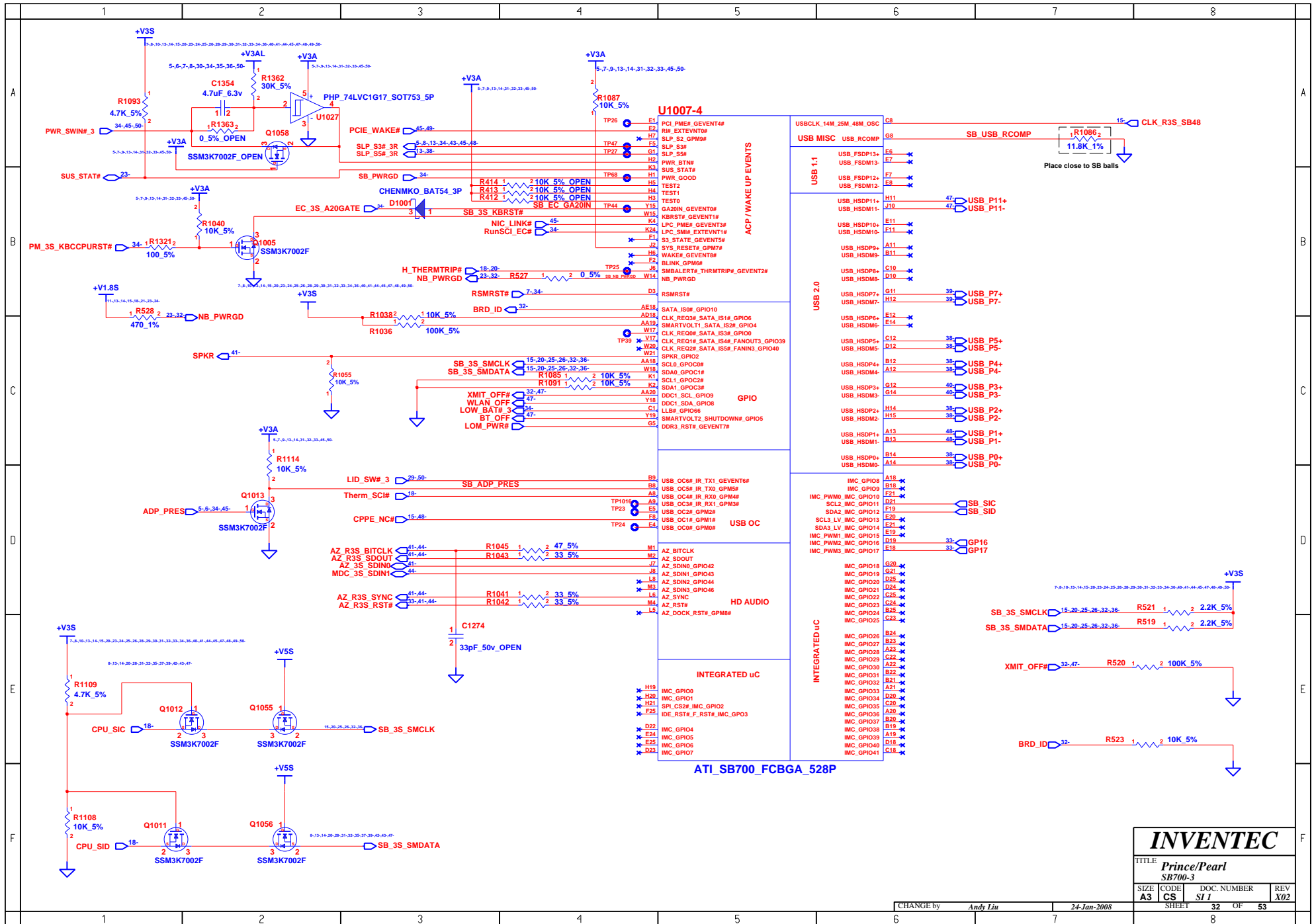
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| TITLE | | | |
| <i>Prince/Pearl</i> <i>DDR2-DAMPING</i> | | | |
| SIZE | CODE | DOC. NUMBER | REV |
| A3 | CS | <i>SI 1</i> | <i>X02</i> |
| SHEET 27 OF 53 | | | |

| | | |
|-----------|-----------------|--------------------|
| CHANGE by | <i>Andy Liu</i> | <i>21-Nov-2007</i> |
|-----------|-----------------|--------------------|









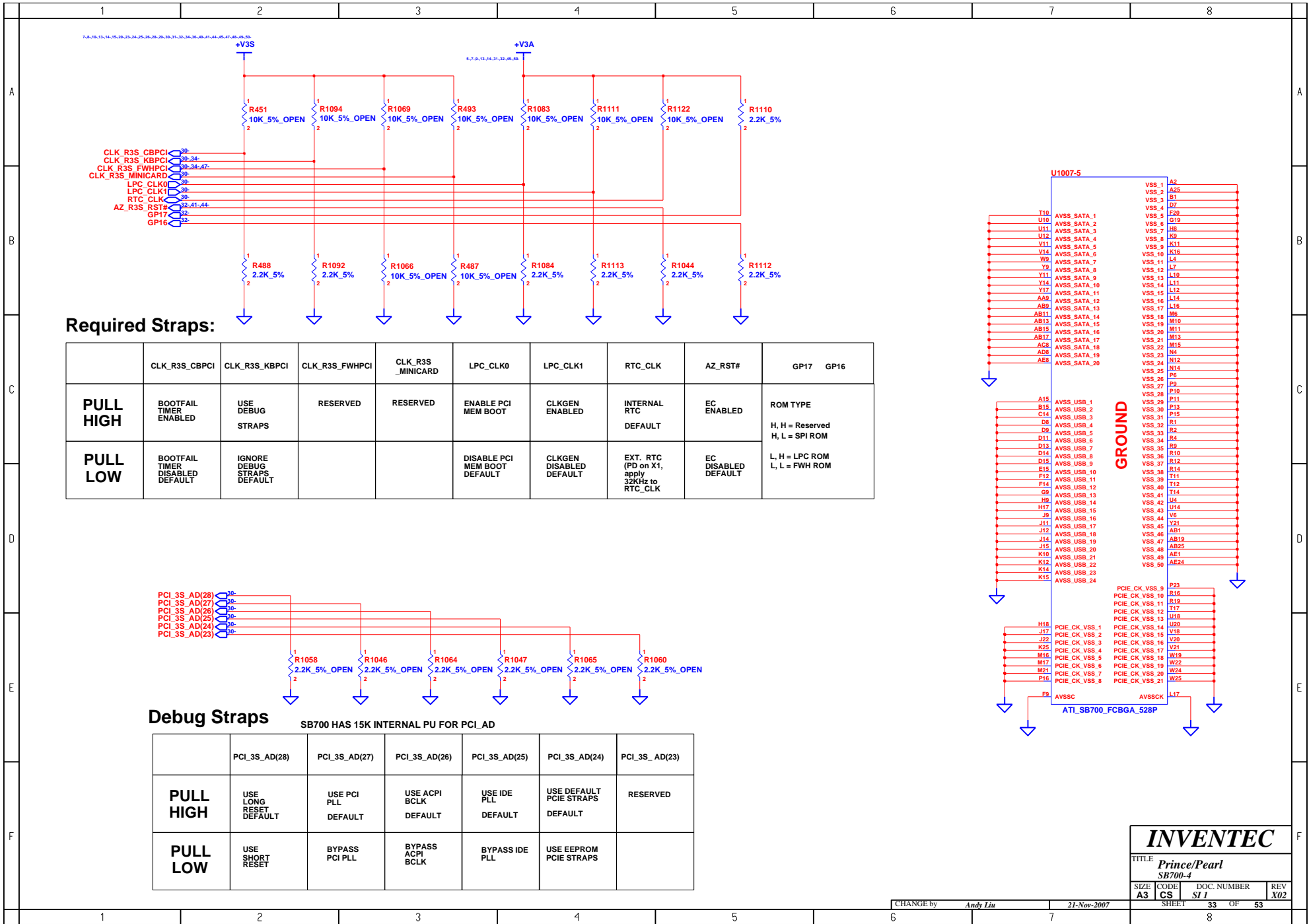
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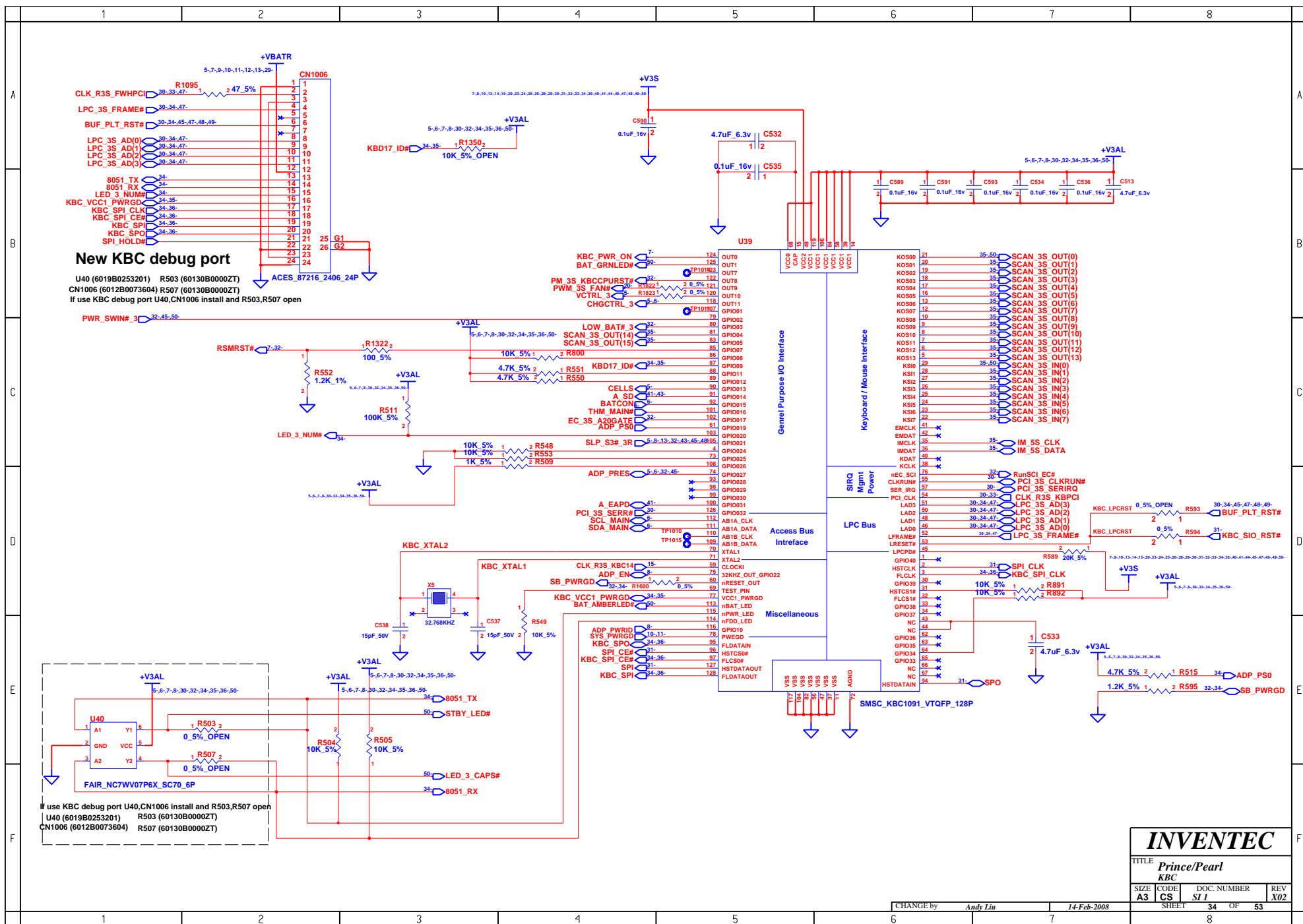
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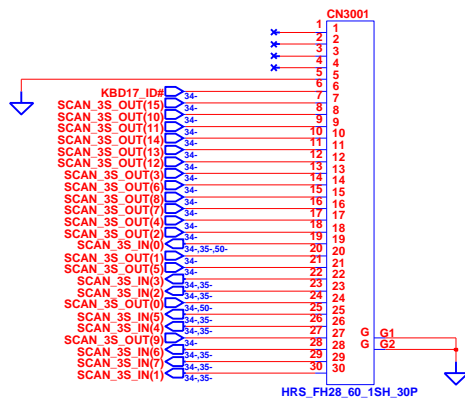
CHANGE by **Andy Liu**

24-Jan-2008

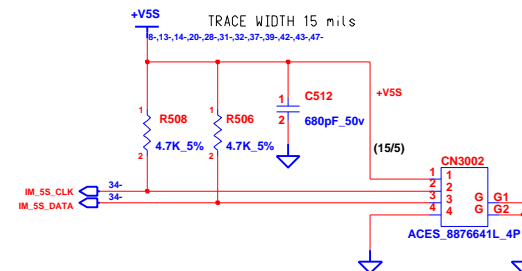
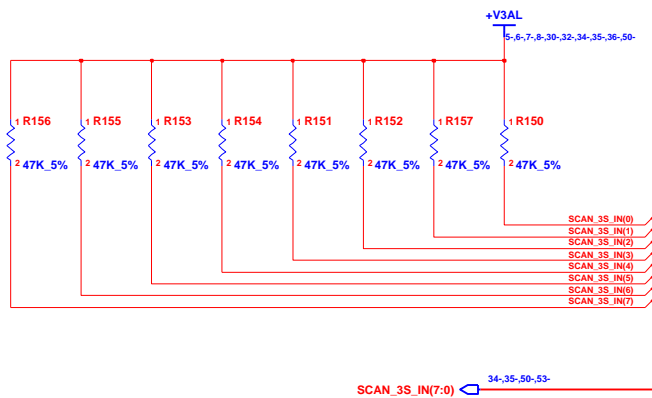
SHEET **32** OF **53**



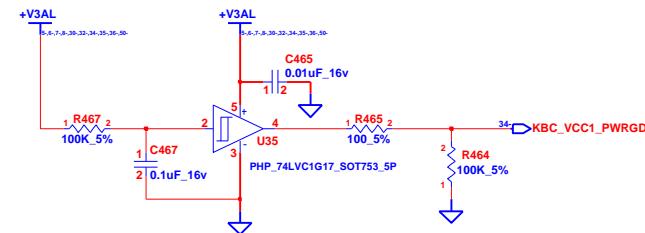




KEYBOARD CONN

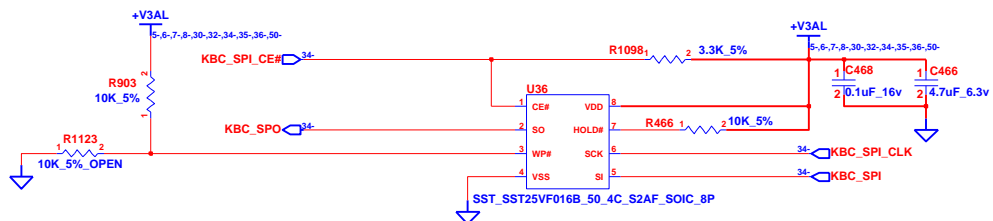


TOUCH PAD CNTR

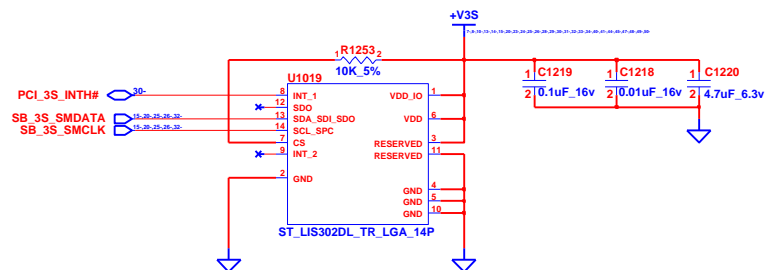


U35 should be placed close to U39.

| INVENTEC | | | |
|-------------------------------|---------|------------------|---------|
| TITLE Prince/Pearl KB&TP CONN | | | |
| SIZE A3 | CODE CS | DOC. NUMBER S1 1 | REV X02 |
| CHANGE by Andy Liu | | 23-Jan-2008 | |
| SHEET 35 | | OF 53 | |



SPI Flash



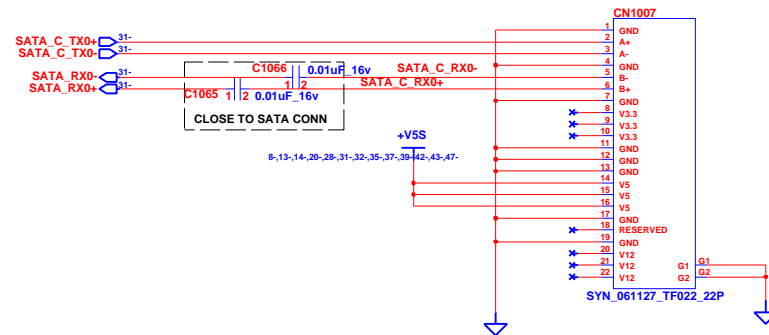
Accelerometer

INVENTEC

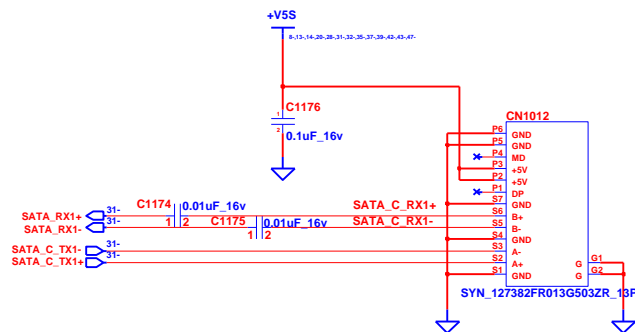
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|---------------------|------|-------------|-------|
| TITLE | | | |
| Prince/Pearl | | | |
| SPI & ACCELEROMETER | | | |
| SIZE | CODE | DOC. NUMBER | REV |
| A3 | CS | SI 1 | X02 |
| SHEET | | 36 | OF 53 |

CHANGE by Andy Liu 28-Jan-2008

8



HDD CONNECTOR



ODD SATA CONNECTOR

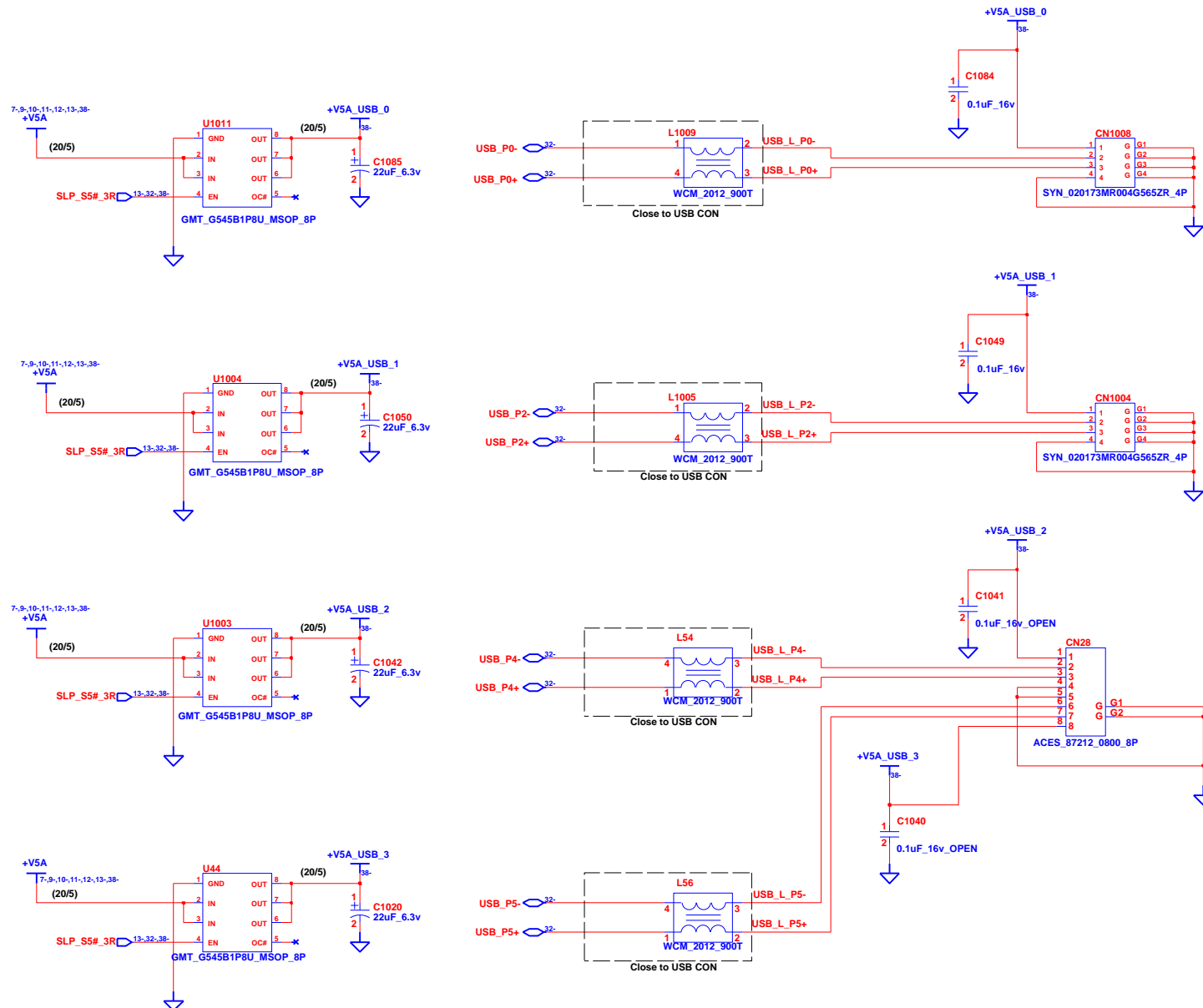
INVENTEC

TITLE
**Prince/Pearl
HDD & ODD CONN**

| SIZE | CODE | DOC. NUMBER | REV |
|------|------|-------------|-----|
| A3 | CS | SI 1 | X02 |

CHANGE by *Andy Liu* 21-Nov-2007

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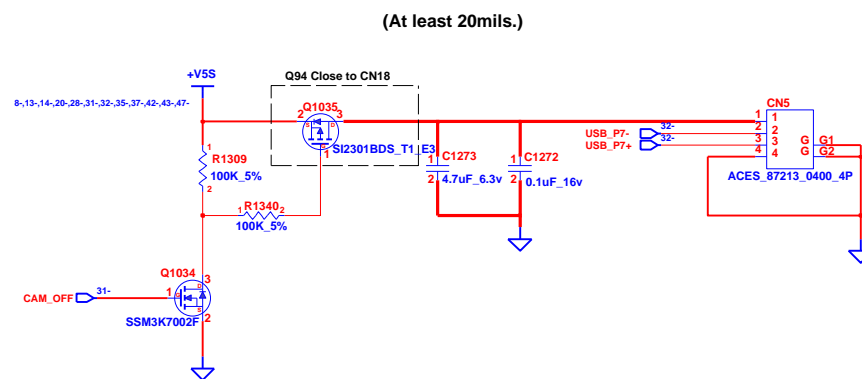
INVENTEC

TITLE
Prince/Pearl
USB CONN

| | | | |
|-------------------|-------------------|----------------------------|-------------------|
| SIZE A3 | CODE CS | DOC. NUMBER SI 1 | REV X02 |
|-------------------|-------------------|----------------------------|-------------------|

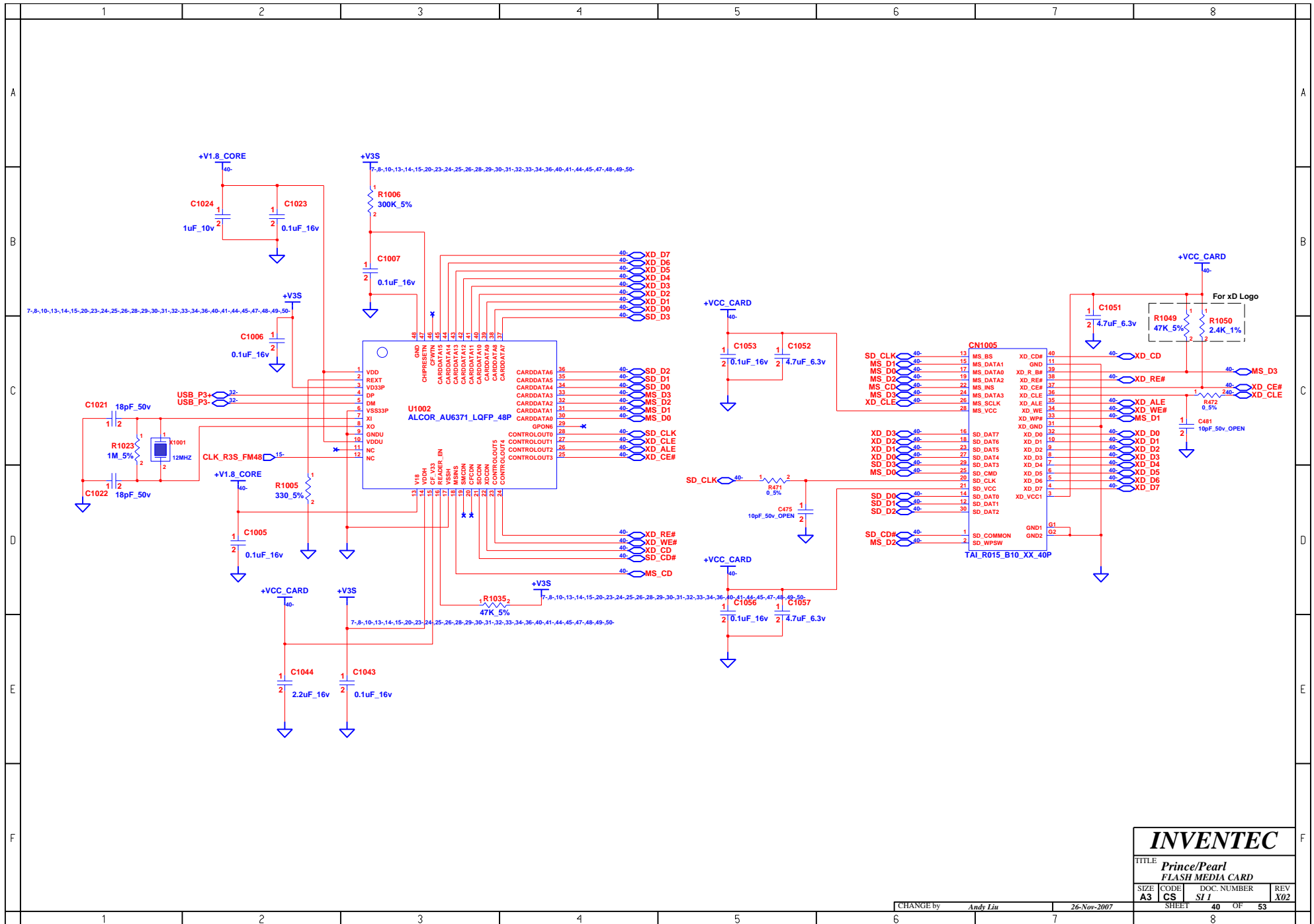
CHANGE by *Andy Liu* 21-Nov-2007

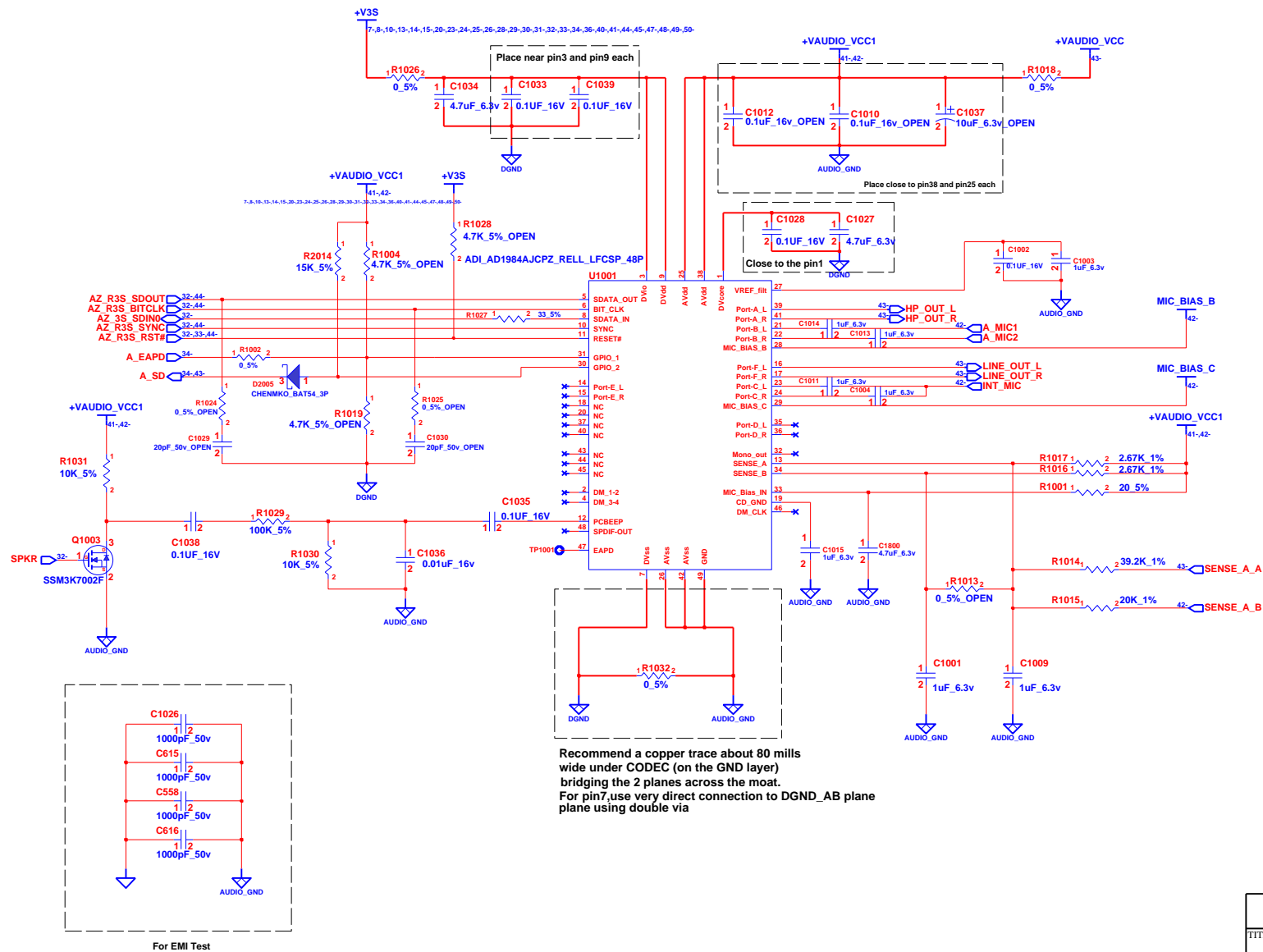
SHEET 38 OF 53



USB WEBCAM CONNECTOR

| INVENTEC | | | |
|------------------------------------|---------|------------------|---------|
| TITLE Prince/Pearl USB WEBCAM CONN | | | |
| SIZE A3 | CODE CS | DOC. NUMBER SI 1 | REV X02 |
| CHANGE by Andy Liu | | 26-Nov-2007 | |
| SHEET | | 39 OF 53 | |
| 1 | | 8 | |

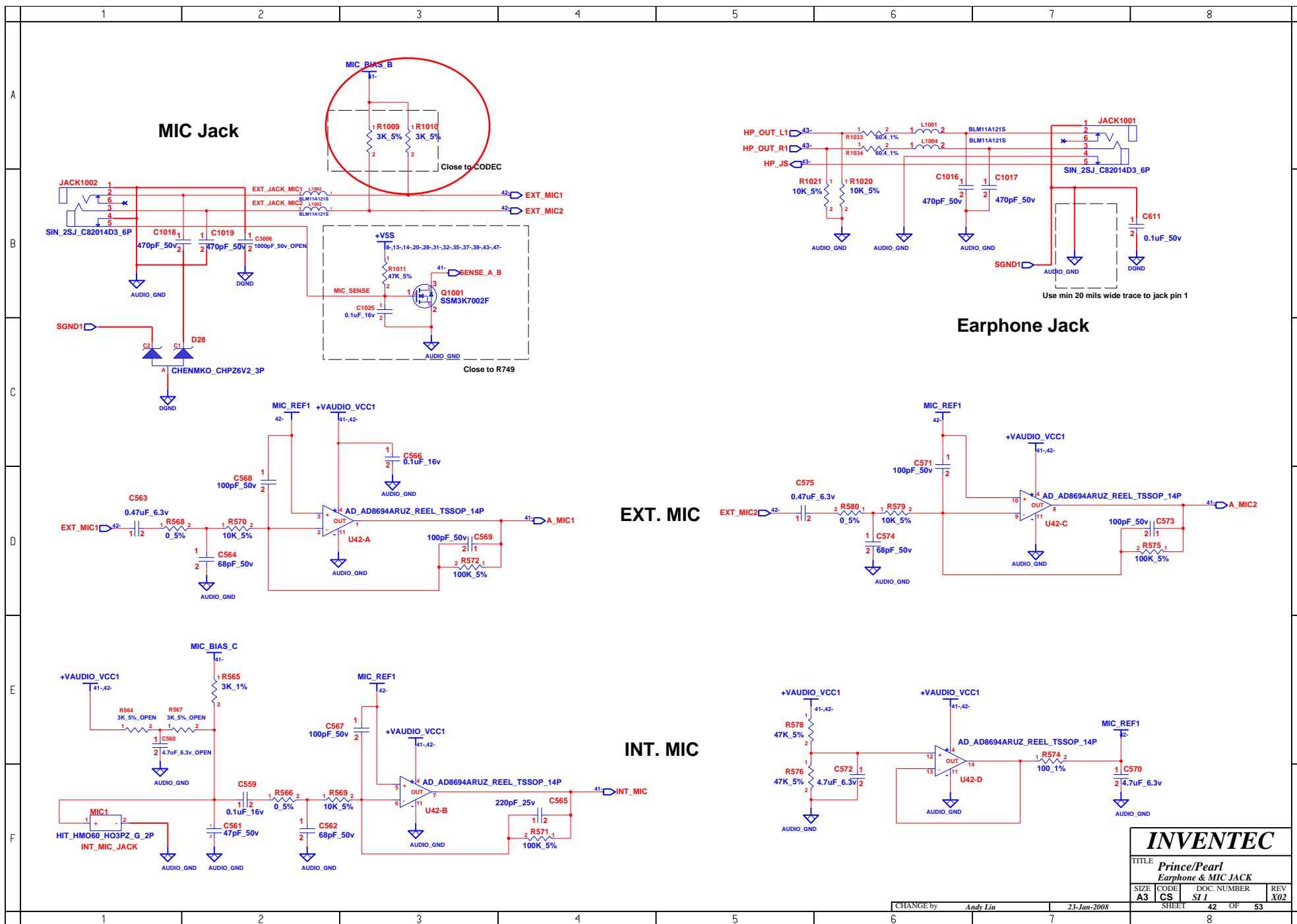




INVENTEC

| | | |
|---|-------------------|----------------------------|
| TITLE Prince/Pearl AZALIA CODEC | | |
| SIZE A3 | CODE CS | DOC. NUMBER SI 1 |
| SHEET 41 | | OF 53 |
| REV X02 | | |

CHANGE by *Andy Liu* 21-Nov-2007

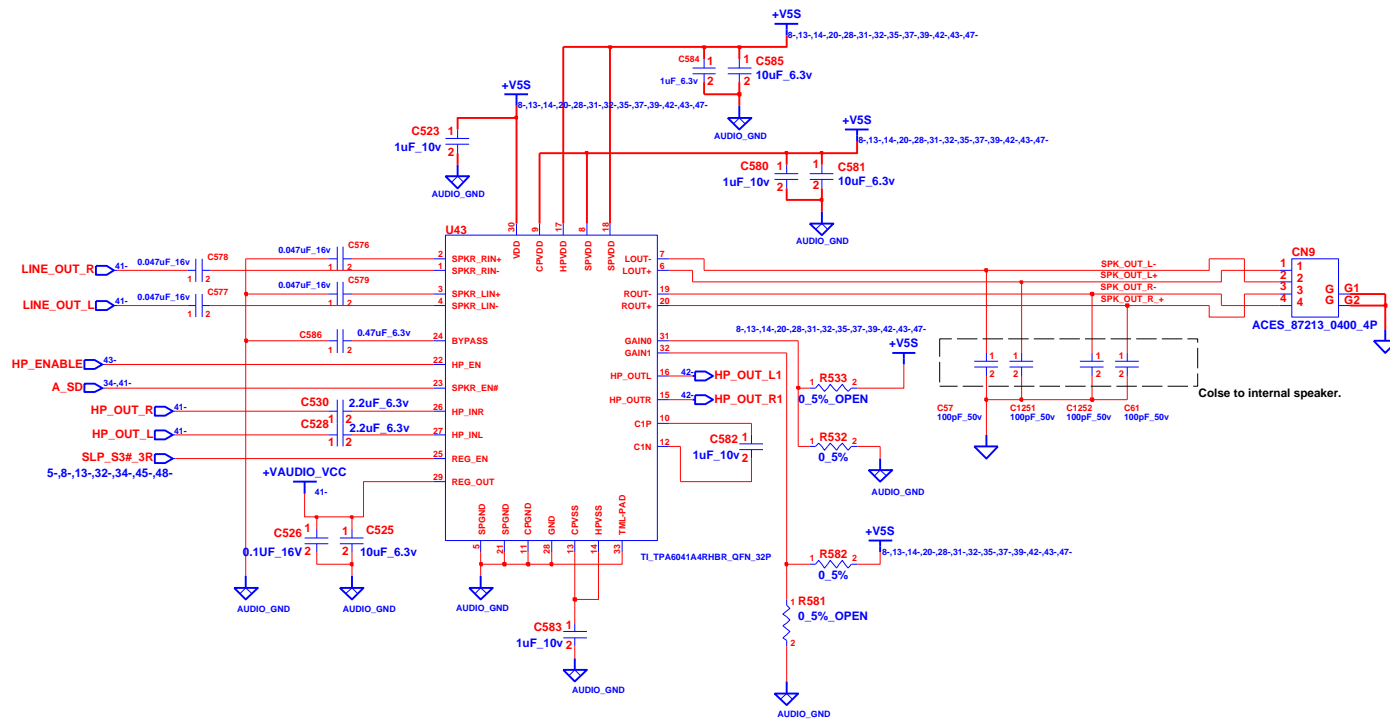


INVENTEC

| | | | |
|---|----------|------------------|----------|
| TITLE: Prince/Pearl Earphone & MIC JACK | | | |
| SIZE: A3 | CODE: CS | DOC. NUMBER: S11 | REV: X02 |

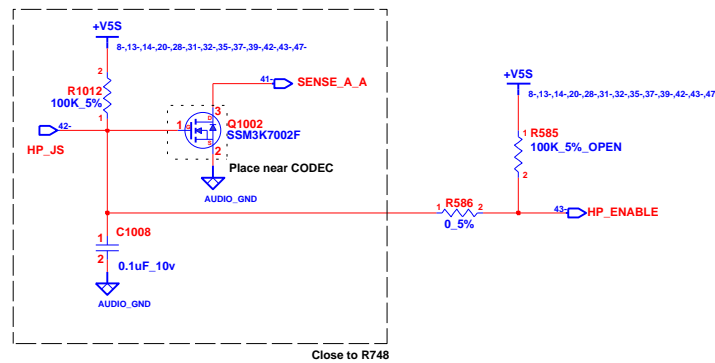
CHANGE by Andy Liu 23-Jan-2008

SHEET 42 OF 53



Internal Speaker

Close to internal speaker.



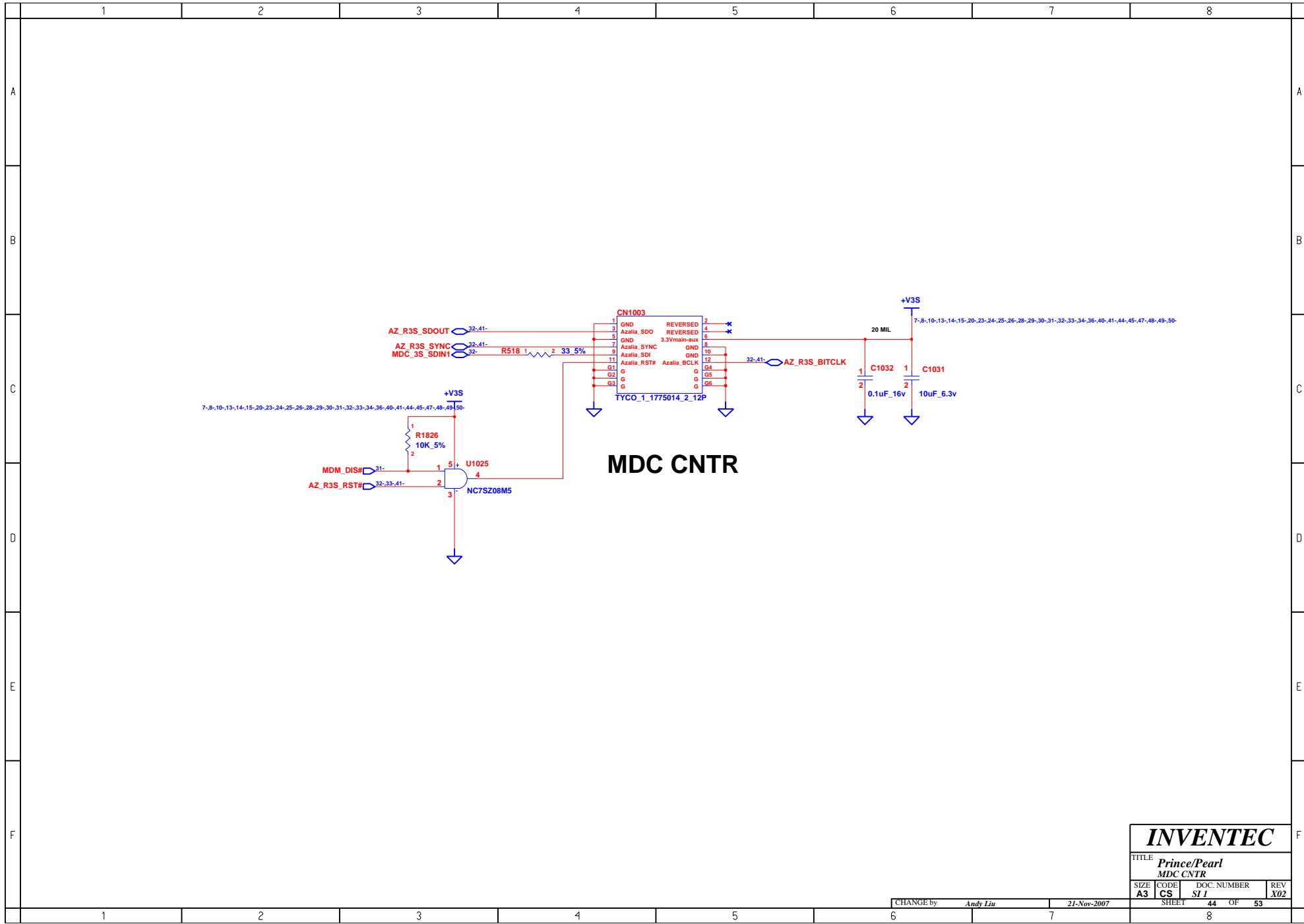
INVENTEC

TITLE
Prince/Pearl
AUDIO AMP & HP JACK

| SIZE | CODE | DOC. NUMBER | REV |
|------|------|-------------|-----|
| A3 | CS | SI 1 | X02 |

CHANGE by Andy Liu 21-Nov-2007

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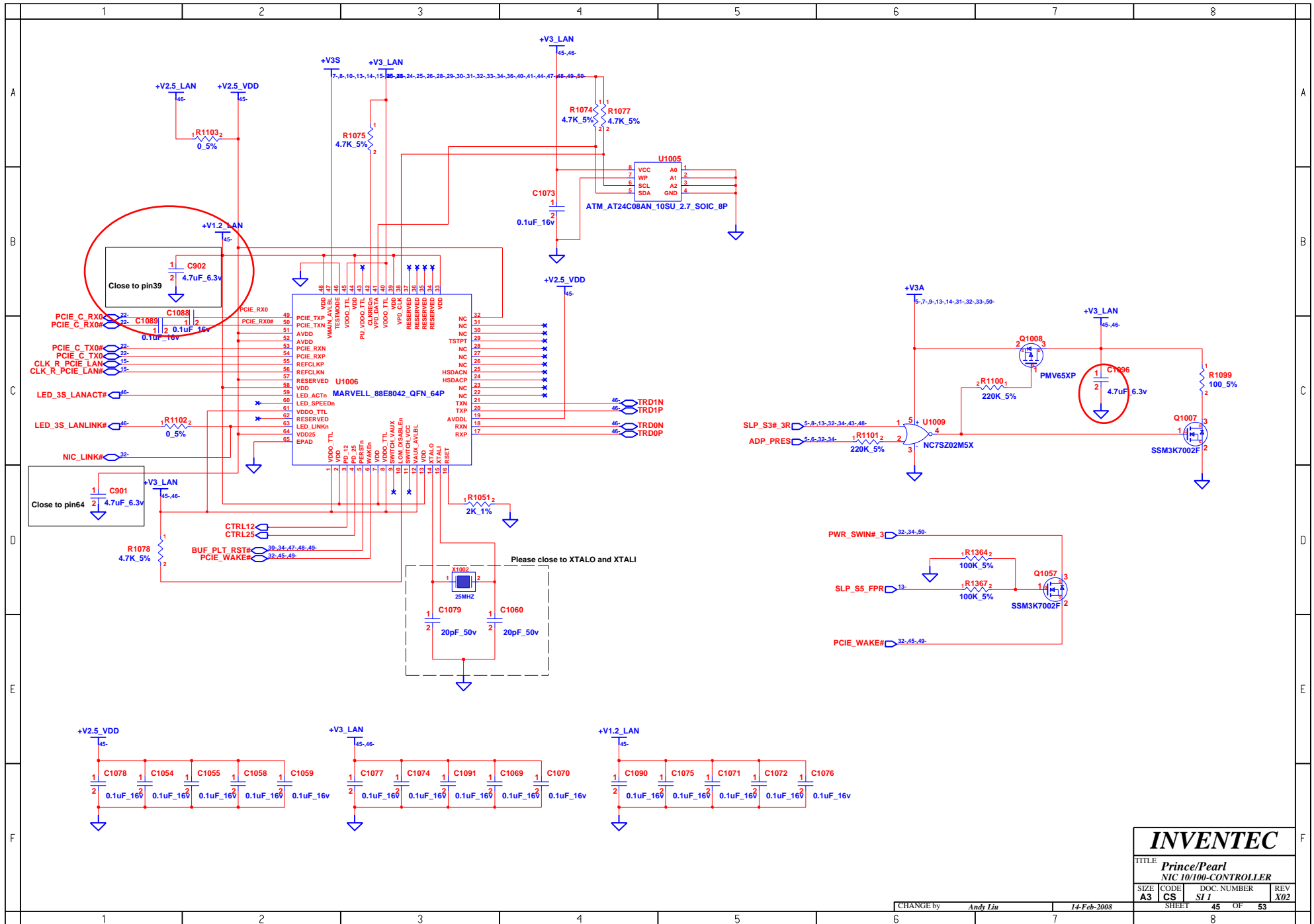
INVENTEC

TITLE
Prince/Pearl
MDC CNTR

| | | | |
|-------------------|-------------------|----------------------------|-------------------|
| SIZE A3 | CODE CS | DOC. NUMBER SI 1 | REV X02 |
|-------------------|-------------------|----------------------------|-------------------|

CHANGE by *Andy Liu* 21-Nov-2007

SHEET 44 OF 53



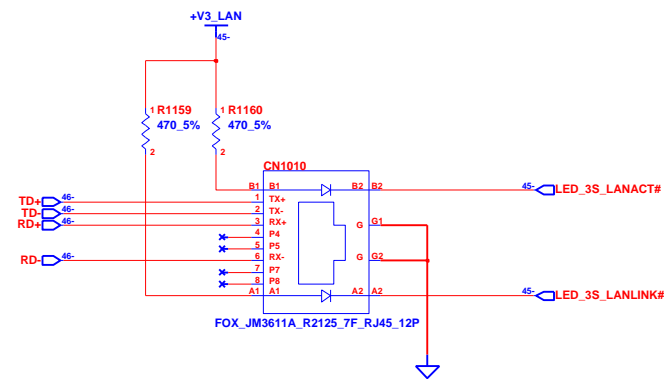
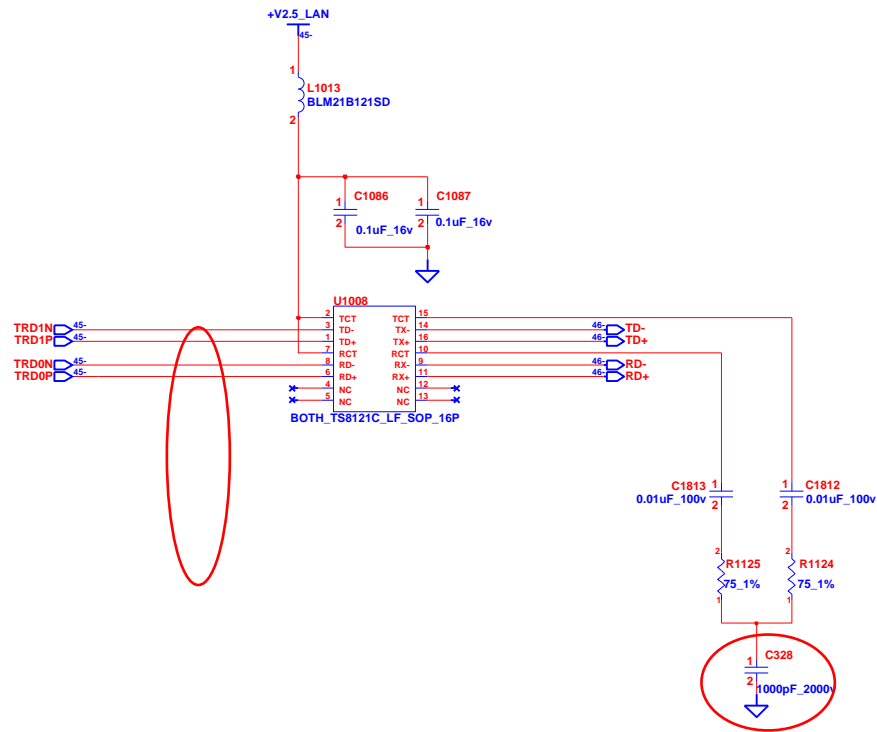
INVENTEC

TITLE
Prince/Pearl
NIC 10/100-CONTROLLER

| SIZE | CODE | DOC. NUMBER | REV |
|------|------|-------------|-----|
| A3 | CS | SI 1 | X02 |

CHANGE by *Andy Liu* 14-Feb-2008

SHEET 45 OF 53

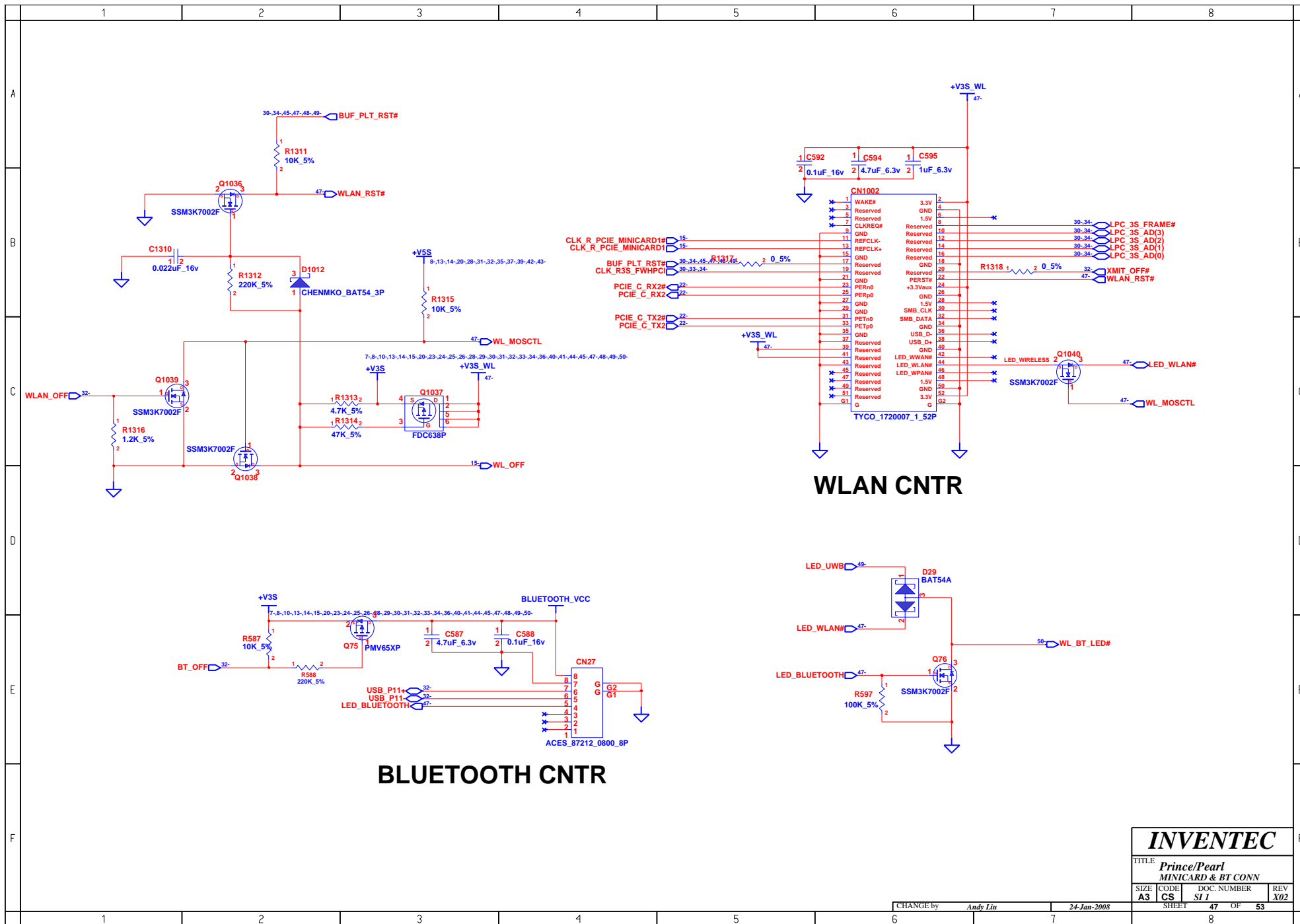


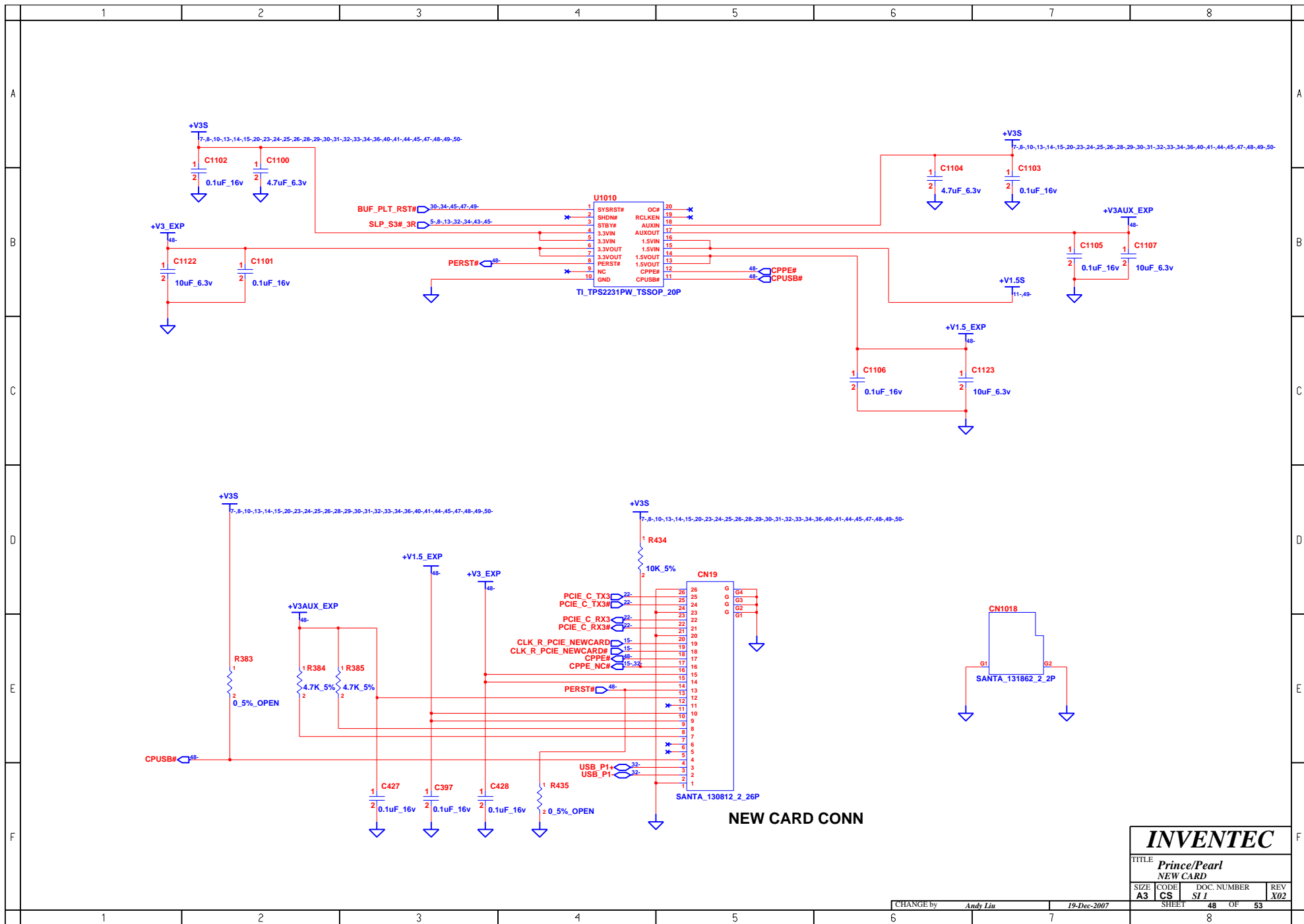
INVENTEC

| | | | |
|----------------------|------|-------------|-----|
| TITLE | | | |
| Prince/Pearl | | | |
| NIC 10/100-RJ45 CONN | | | |
| SIZE | CODE | DOC. NUMBER | REV |
| A3 | CS | SI 1 | X02 |

CHANGE by Andy Liu 4-Feb-2008

SHEET 46 OF 53



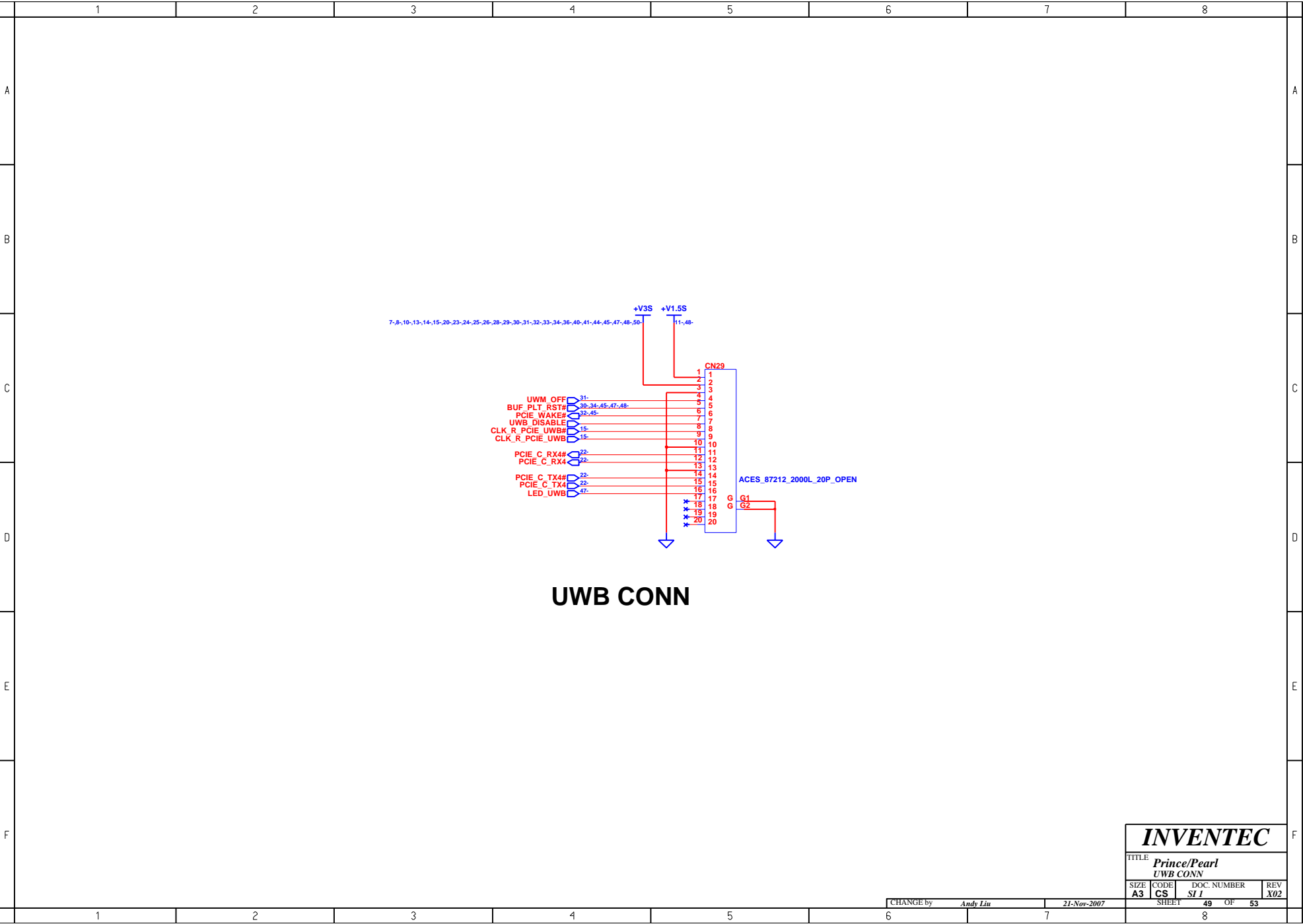


INVENTEC

| | | | |
|--------------------------|------|-------------|-----|
| TITLE | | | |
| Prince/Pearl NEW CARD | | | |
| SIZE | CODE | DOC. NUMBER | REV |
| A3 | CS | SI 1 | X02 |

CHANGE by Andy Liu 19-Dec-2007

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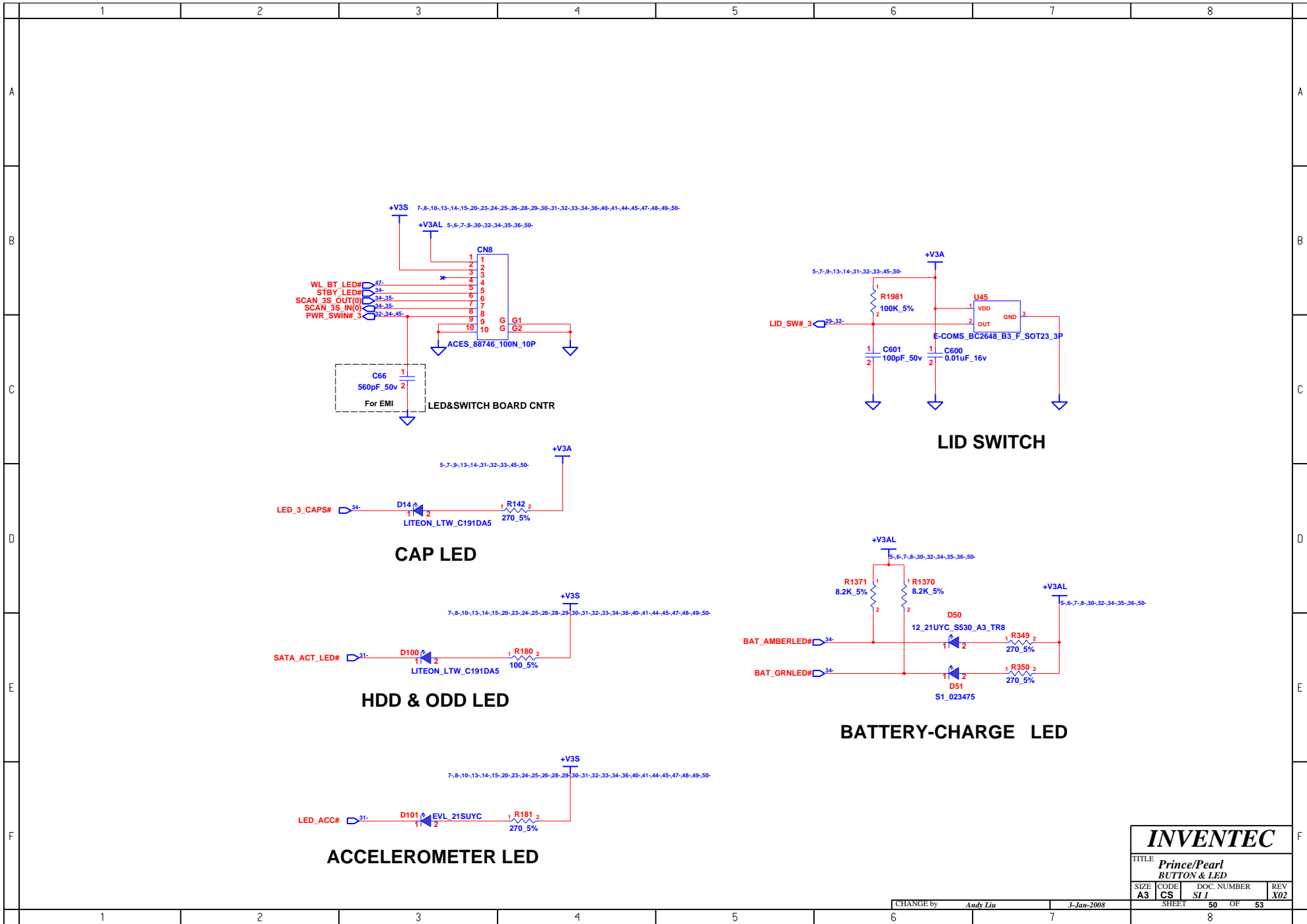
INVENTEC

TITLE **Prince/Pearl**
UWB CONN

| SIZE | CODE | DOC. NUMBER | REV |
|------|------|-------------|-----|
| A3 | CS | SI 1 | X02 |

| SHEET | 49 | OF | 53 |
|-------|----|----|----|
| | | | |

| CHANGE by | 21-Nov-2007 |
|-----------|-------------|
| Andy Liu | |



| | | | | | | | | | | | |
|---|---|---|--|---|--|---|--|---|--|--|--|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | |
| A | <div><div><div><div><div>S1</div><div>SCREW2.8_8_1P</div></div><div><div>S1018</div><div>SCREW2.8_8_6_1P</div></div></div><div><div>S1001</div><div>SCREW2.8_8_10_1P</div></div><div><div>S1010</div><div>SCREW2.8_8_9_1P</div></div></div><div><div>S1006</div><div>SCREW2.5_4_1P</div></div><div><div>S1021</div><div>SCREW2.8_8_10_1P</div></div></div> <div><div>S1002</div><div>SCREW2.8_8_9_1P</div></div> <div><div>S1012</div><div>SCREW2.8_8_9_1P</div></div> <div><div>S1005</div><div>SCREW2.8_8_9_1P</div></div> <div><div>S1020</div><div>SCREW2.8_8_10_1P</div></div> <div><div>S1019</div><div>SCREW2.8_8_6_1P</div></div> <div><div>S1014</div><div>SCREW2.8_8_9_1P</div></div> <div><div>S1003</div><div>SCREW2.4_5_1P</div></div> <div><div>S1026</div><div>SCREW1.1_2.4_5_1P</div></div> <div>MAIN BOARD</div> | | <div><div><div><div>S1016</div><div>SCREW3.8_6_1P</div></div><div><div>S1015</div><div>SCREW3.8_6_1P</div></div></div><div><div>S8</div><div>SCREW3.8_6_1P</div></div><div><div>S10</div><div>SCREW3.8_6_1P</div></div></div> <div>CPU</div> | | <div><div><div>S1008</div><div>SCREW3.7_4_6_1P</div></div><div><div>S1009</div><div>SCREW3.7_4_6_1P</div></div></div> <div>MINI CARD</div> | | <div><div><div>S1007</div><div>SCREW2.1_2.2_5_1P</div></div><div><div>S1004</div><div>SCREW2.1_2.2_5_1P</div></div></div> <div>MDC</div> | | <div><div><div>FIX1</div><div>FIX_MASK</div></div><div>FIX10</div><div>FIX_MASK</div><div>FIX3</div><div>FIX_MASK</div><div>FIX4</div><div>FIX_MASK</div><div>FIX11</div><div>FIX_MASK</div><div>FIX7</div><div>FIX_MASK</div><div>FIX9</div><div>FIX_MASK</div><div>FIX8</div><div>FIX_MASK</div></div> | | |
| B | | | | | | | | | | | |
| C | | | | | | | | | | | |
| D | | | <div><div><div><div>S1011</div><div>SCREW1.1_2.4_5_1P</div></div><div><div>S1017</div><div>SCREW1.1_2.4_5_1P</div></div></div><div>North Bridge</div></div> | | | | | | | | |
| E | | | | | | | | | | | |
| F | | | | | | | | | <div><div><div><div>TITLE</div><div>Prince/Pearl</div></div><div>SCREW</div><div><div>SIZE</div><div>A3</div><div>CODE</div><div>CS</div><div>DOC. NUMBER</div><div>S11</div><div>REV</div><div>X02</div></div></div></div> <div><div>CHANGE by</div><div>Andy Liu</div><div>2-Jan-2008</div><div>SHEET</div><div>51</div><div>OF</div><div>53</div><div>8</div></div> | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | |

S1019

SCREW2.8_8_6_1P

S1014

SCREW2.8_8_9_1P

S1003

SCREW2.4_5_1P

S1026

SCREW1.1_2.4_5_1P

MAIN BOARD

S1016

SCREW3.8_6_1P

S1015

SCREW3.8_6_1P

S8

SCREW3.8_6_1P

S10

SCREW3.8_6_1P

CPU

S1008

SCREW3.7_4_6_1P

S1009

SCREW3.7_4_6_1P

MINI CARD

S1007

SCREW2.1_2.2_5_1P

S1004

SCREW2.1_2.2_5_1P

MDC

S1011

SCREW1.1_2.4_5_1P

S1017

SCREW1.1_2.4_5_1P

North Bridge

FIX1

FIX_MASK

FIX10

FIX_MASK

FIX3

FIX_MASK

FIX4

FIX_MASK

FIX11

FIX_MASK

FIX7

FIX_MASK

FIX9

FIX_MASK

FIX8

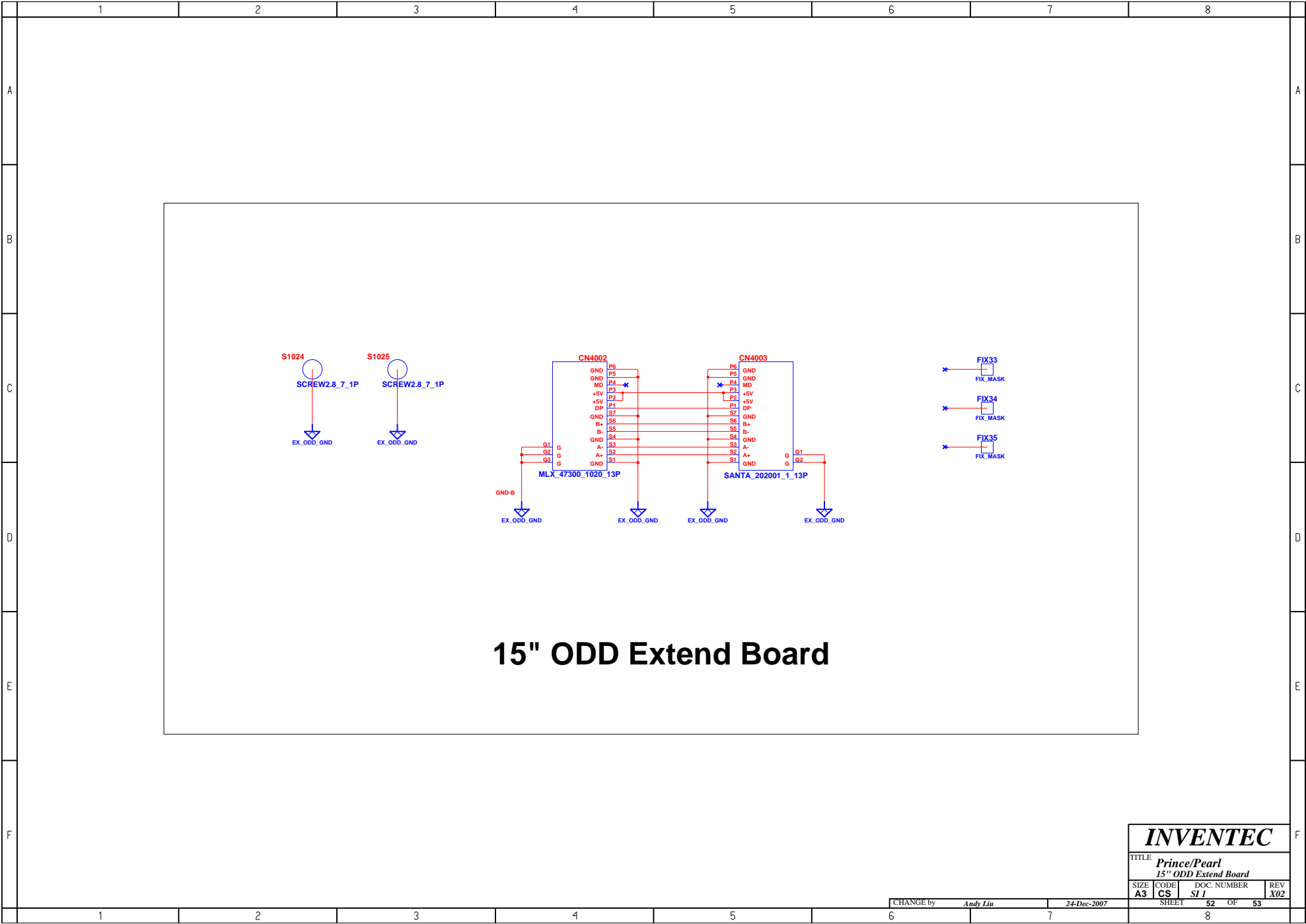
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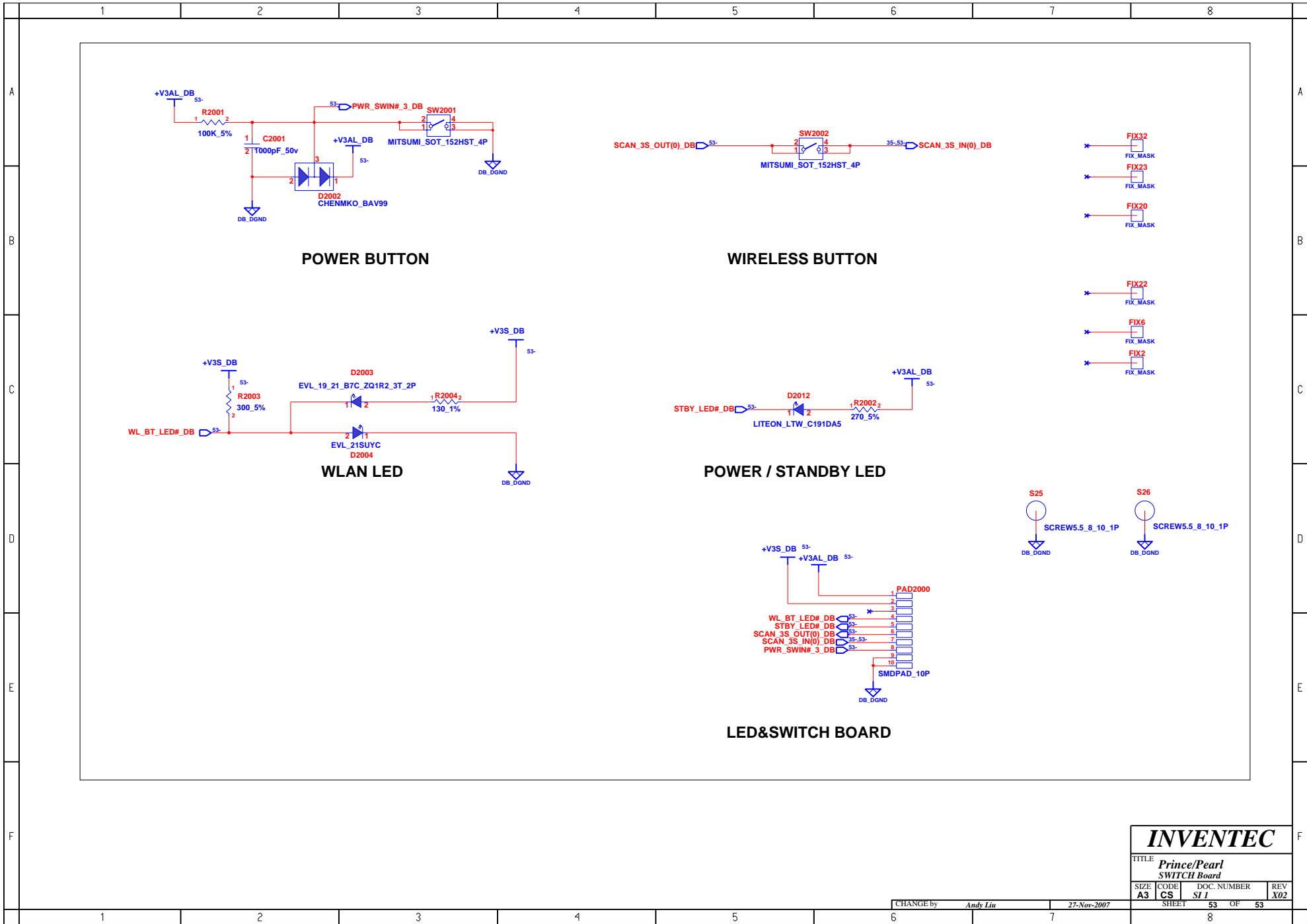
INVENTEC

| | | | |
|--------------------------|---------|-----------------|---------|
| TITLE Prince/Pearl SCREW | | | |
| SIZE A3 | CODE CS | DOC. NUMBER S11 | REV X02 |

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| | | | |
|---------------------------------|-------------|-----------------|---------|
| INVENTEC | | | |
| TITLE Prince/Pearl SWITCH Board | | | |
| SIZE A3 | CODE CS | DOC. NUMBER S11 | REV X02 |
| CHANGE by Andy Liu | 27-Nov-2007 | SHEET 53 | OF 53 |