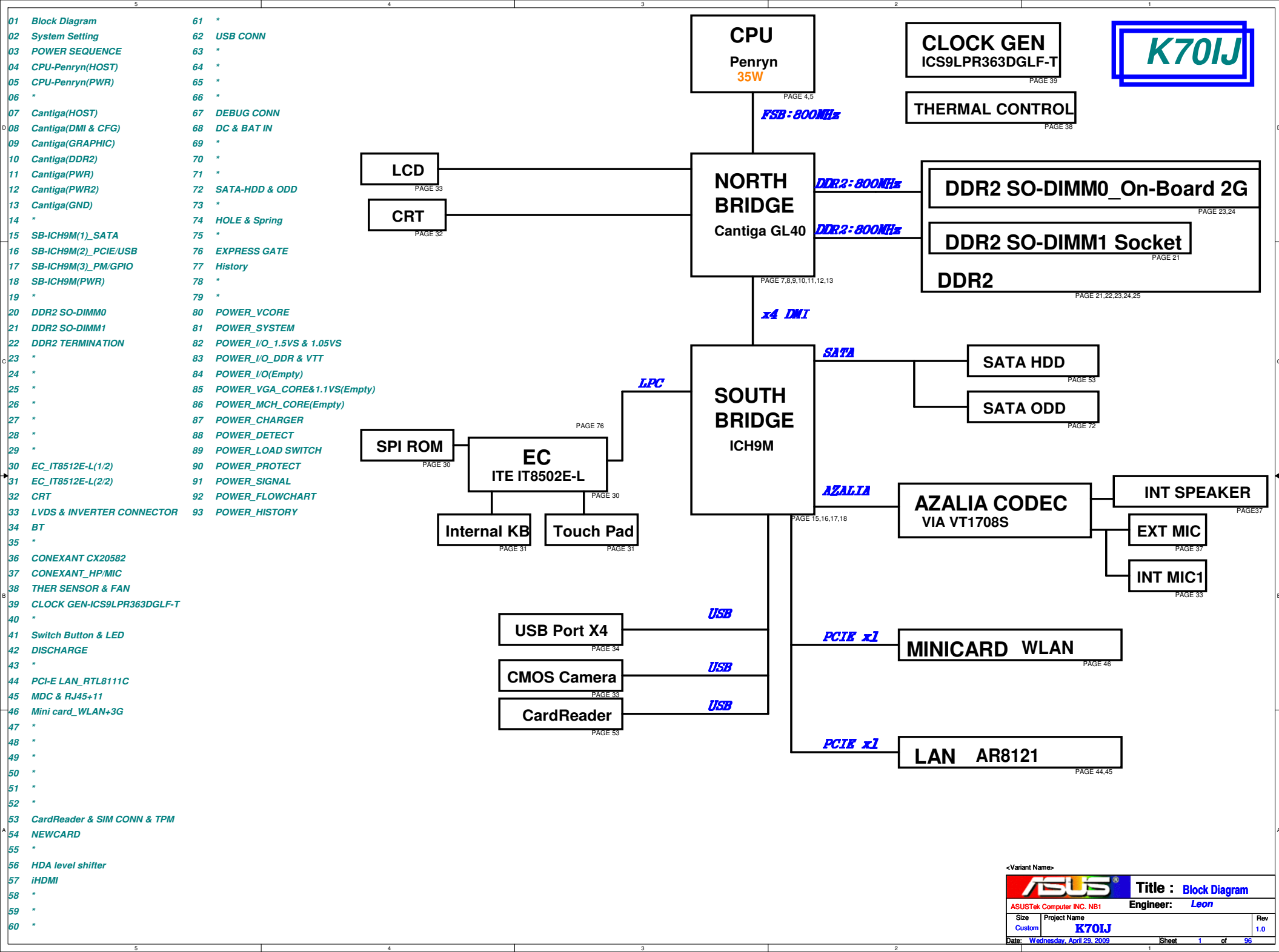
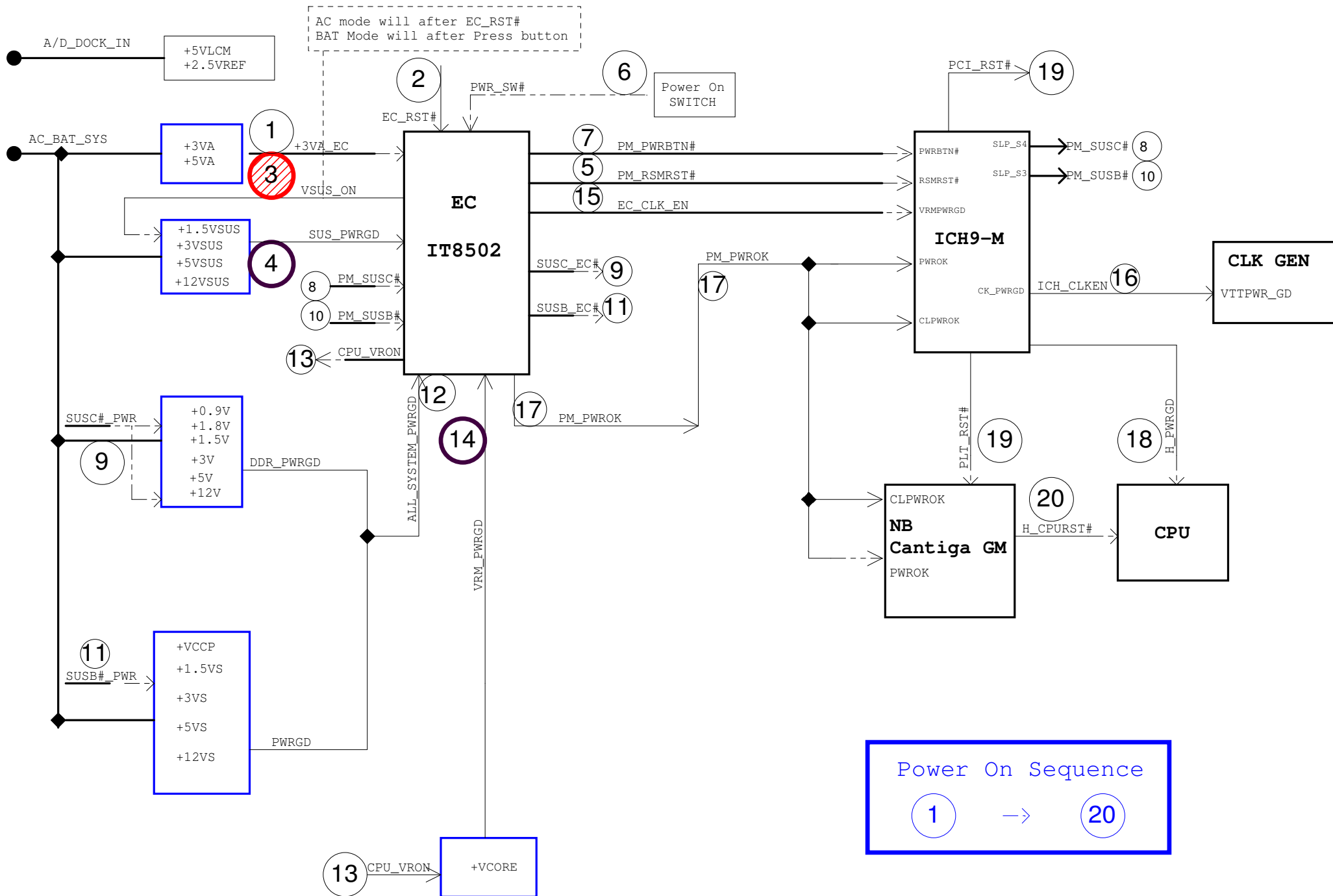


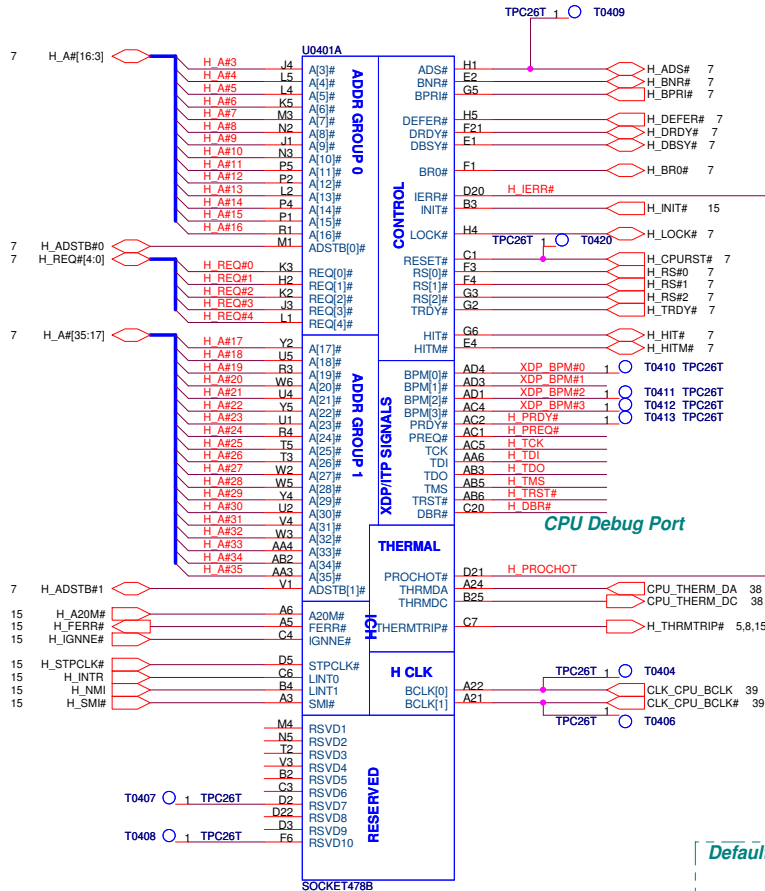


|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|------------------------------------------------------------------------------------------|--------|-----------------------------|--------|---------|-----|--------------|--|---------|-----|---------------------|--|------------|--|----------|--|-------------|--|--|--|
| 5                                                                                        |        |                             |        | 4       |     |              |  | 3       |     |                     |  | 2          |  |          |  | 1           |  |  |  |
| ICH9-M GPIO                                                                              |        |                             |        | EC GPIO |     |              |  | EC GPIO |     |                     |  | PCI Device |  |          |  | PCIE Device |  |  |  |
| Use As                                                                                   |        | Signal Name                 |        | Use As  |     | Signal Name  |  | Use As  |     | Signal Name         |  | IDSEL#     |  | REQ/GNT# |  | Interrupts  |  |  |  |
| Power                                                                                    |        | Power                       |        | Power   |     | Power        |  | Power   |     | Power               |  |            |  |          |  |             |  |  |  |
| GPIO 00                                                                                  | GPI    | PM_SYNC#(Programmed as GPO) | +3VS   | GPA0    | GPO | PWR_LED#     |  | -       | -   | -                   |  |            |  |          |  |             |  |  |  |
| GPIO 01                                                                                  | GPI    | -                           | +3VS   | GPA1    | GPO | CHG_LED#     |  | GPG6    | GPO | -                   |  |            |  |          |  |             |  |  |  |
| GPIO [2:5]                                                                               | GPI    | PCI_INT[E:H]#EXT PU         | +5VS   | GPA2    | GPO | -            |  | -       | -   | -                   |  |            |  |          |  |             |  |  |  |
| GPIO 06                                                                                  | GPI    | BIOS_REC EXT PU             | +3VS   | GPA3    | -   | -            |  | GPH0    | OD  | PM_CLKRUN#          |  |            |  |          |  |             |  |  |  |
| GPIO 07                                                                                  | GPO    | SEL_VID2 -                  | +3VS   | GPA4    | GPO | LCD_BL_PWM   |  | GPH1    | ALT | -                   |  |            |  |          |  |             |  |  |  |
| GPIO 08                                                                                  | GPI    | EXT_SMI# EXT PU             | +3VSUS | GPA5    | GPO | FAN0_PWM     |  | GPH2    | ALT | CHG_EN              |  |            |  |          |  |             |  |  |  |
| GPIO 09                                                                                  | Native | -                           | +3VSUS | GPA6    | GPO | VCORE_CNT1   |  | GPH3    | GPO | -                   |  |            |  |          |  |             |  |  |  |
| GPIO 10                                                                                  | GPI    | RTLAN_DSM# EXT PU           | +3VSUS | GPA7    | GPO | VCORE_CNT2   |  | GPH4    | GPO | -                   |  |            |  |          |  |             |  |  |  |
| GPIO 11                                                                                  | Native | EXT_SCI#(Programmed as GPI) | +3VSUS | GPB0    | GPO | BATSEL_0     |  | GPH5    | GPO | NUM_LED#            |  |            |  |          |  |             |  |  |  |
| GPIO 12                                                                                  | GPO    | GPI012                      | +3VSUS | GPB1    | GPO | BATSEL_1     |  | GPH6    | GPO | CAP_LED#            |  |            |  |          |  |             |  |  |  |
| GPIO 13                                                                                  | GPI    | -                           | +3VSUS | GPB2    | GPI | -            |  | -       | -   | -                   |  |            |  |          |  |             |  |  |  |
| GPIO 14                                                                                  | GPI    | AC_PRESENT EXT PD           | +3VSUS | GPB3    | ALT | SMB0_CLK     |  | GPI0    | GPI | VGA_ALERT#          |  |            |  |          |  |             |  |  |  |
| -                                                                                        | -      | -                           | -      | GPB4    | ALT | SMB0_DAT     |  | GPI1    | GPI | SUS_PWRGD           |  |            |  |          |  |             |  |  |  |
| GPIO 16                                                                                  | Native | PM DPRSLPVR INT PD*         | +3VS   | GPB5    | OD  | A20GATE      |  | GPI2    | GPI | ALL_SYSTEM_PWRGD    |  |            |  |          |  |             |  |  |  |
| GPIO 17                                                                                  | GPI    | WLAN_LED(Programmed as GPO) | +3VS   | GPB6    | OD  | RC_IN#       |  | GPI3    | GPI | VRM_PWRGD           |  |            |  |          |  |             |  |  |  |
| GPIO 18                                                                                  | GPO    | SEL_VID3 -                  | +3VS   | GPB7    | GPO | PM_RSMRST#   |  | GPI4    | GPI | RECOVERY            |  |            |  |          |  |             |  |  |  |
| GPIO 19                                                                                  | GPO    | SEL_VID0 -                  | +3VS   | GPC0    | GPI | -            |  | GPI5    | GPI | ADP_ERR#            |  |            |  |          |  |             |  |  |  |
| GPIO 20                                                                                  | GPO    | SEL_VID4 - INT PD*          | +3VS   | GPC1    | ALT | SMB1_CLK     |  | GPI6    | GPI | -                   |  |            |  |          |  |             |  |  |  |
| GPIO 21                                                                                  | GPO    | VID_SW - High Active        | +3VS   | GPC2    | ALT | SMB1_DAT     |  | GPI7    | GPI | -                   |  |            |  |          |  |             |  |  |  |
| GPIO 22                                                                                  | GPI    | BT_DET# EXT PU              | +3VS   | GPC3    | GPO | PM_PWRBTN#   |  | GPJ0    | GPO | HDCP_EPROM_PROTECT# |  |            |  |          |  |             |  |  |  |
| GPIO 23                                                                                  | Native | LPC_DRQ#1 INT PU            | +3VS   | GPC4    | ALT | AC_IN_OC#    |  | GPJ1    | GPO | PM_PWROK            |  |            |  |          |  |             |  |  |  |
| GPIO 24                                                                                  | GPO    | -                           | +3VSUS | GPC5    | GPO | OP_SD#       |  | GPJ2    | GPI | VSET_EC             |  |            |  |          |  |             |  |  |  |
| -                                                                                        | -      | -                           | -      | GPC6    | ALT | TS1#         |  | GPJ3    | -   | ISET_EC             |  |            |  |          |  |             |  |  |  |
| GPIO 26                                                                                  | Native | PM_S4_STATE#                | +3VSUS | GPC7    | GPO | RFON_SW#     |  | GPJ4    | GPO | -                   |  |            |  |          |  |             |  |  |  |
| GPIO 27                                                                                  | GPO    | SEL_VID5                    | +3VSUS | GPD0    | GPI | PWRLIMIT#    |  | GPJ5    | GPO | -                   |  |            |  |          |  |             |  |  |  |
| GPIO 28                                                                                  | GPO    | SEL_VID6                    | +3VSUS | GPD1    | ALT | PM_SUSC#     |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 29                                                                                  | Native | USB_OC#_ALL                 | +3VSUS | GPD2    | ALT | BUF_PLT_RST# |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 30                                                                                  | Native | CLK_DEC#                    | +3VSUS | GPD3    | OD  | EXT_SCI#     |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 31                                                                                  | Native | CLK_ACC                     | +3VSUS | GPD4    | OD  | EXT_SMI#     |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| -                                                                                        | -      | -                           | -      | GPD5    | GPO | LCD_BACKOFF# |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 33                                                                                  | GPO    | - INT PU*                   | +3VS   | GPD6    | ALT | FAN0_TACH    |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 34                                                                                  | GPO    | -                           | +3VS   | GPD7    | GPI | -            |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 35                                                                                  | GPO    | GPO35                       | +3VS   | GPE0    | GPO | VSUS_ON      |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 36                                                                                  | GPO    | SEL_VID1 -                  | +3VS   | GPE1    | GPO | SUSC_EC#     |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 37                                                                                  | GPI    | PCB_ID0                     | +3VS   | GPE2    | GPO | SUSB_EC#     |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 38                                                                                  | GPI    | PCB_ID1                     | +3VS   | GPE3    | GPO | CPU_VRON     |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 39                                                                                  | GPI    | PCB_ID2                     | +3VS   | GPE4    | ALT | PWR_SW#      |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 40                                                                                  | Native | USB_CON_OC01#               | +3VSUS | GPE5    | ALT | BAT2_IN_OC#  |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 41                                                                                  | Native | USB_CON_OC23#               | +3VSUS | GPE6    | GPI | LID_SW#      |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 42                                                                                  | Native | USB_CON_OC23#               | +3VSUS | GPE7    | GPO | DJ_SW#       |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 43                                                                                  | Native | USB_OC#_ALL                 | +3VSUS | GPF0    | GPI | -            |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 44                                                                                  | Native | USB_OC#_ALL                 | +3VSUS | GPF1    | GPI | -            |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 45                                                                                  | Native | USB_OC#_ALL                 | +3VSUS | GPF2    | ALT | MARATHON#    |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 46                                                                                  | Native | WLAN_ON                     | +3VSUS | GPF3    | ALT | -            |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 47                                                                                  | Native | USB_OC#_ALL                 | +3VSUS | GPF4    | ALT | TP_CLK       |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 48                                                                                  | GPI    | -                           | +3VS   | GPF5    | ALT | TP_DAT       |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 49                                                                                  | GPO    | -                           | +3VS   | GPF6    | GPO | THRO_CPU     |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 50                                                                                  | Native | PCI_REQ1#                   | +5VS   | GPF7    | GPO | -            |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 51                                                                                  | Native | PCI_GNT1# INT PU*           | +3VS   | GPG0    | GPI | PM_THERM#    |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 52                                                                                  | Native | PCI_REQ2#                   | +5VS   | GPG1    | ALT | PM_SUSB#     |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 53                                                                                  | Native | PCI_GNT2# INT PU*           | +3VS   | GPG2    | GPO | -            |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 54                                                                                  | Native | PCI_REQ3#                   | +5VS   | -       | -   | -            |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 55                                                                                  | Native | PCI_GNT3# INT PU*           | +3VS   | -       | -   | -            |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 56                                                                                  | GPI    | - EXT PU                    | +3VSUS |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 57                                                                                  | GPI    | - EXT PU                    | +3VSUS |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 58                                                                                  | GPI    | - INT PU*                   | +3VSUS |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 59                                                                                  | Native | USB_CON_OC01#               | +3VSUS |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO 60                                                                                  | Native | RTLAN_DSM_EN                | +3VSUS |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| 5                                                                                        |        |                             |        | 4       |     |              |  | 3       |     |                     |  | 2          |  |          |  | 1           |  |  |  |
| INT PU*: PU or PD in special time                                                        |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
| GPIO33 Internal Pull High, Go Low= Flash - 1/3<br>Descriptor Security will be overridden |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |
|                                                                                          |        |                             |        |         |     |              |  |         |     |                     |  |            |  |          |  |             |  |  |  |

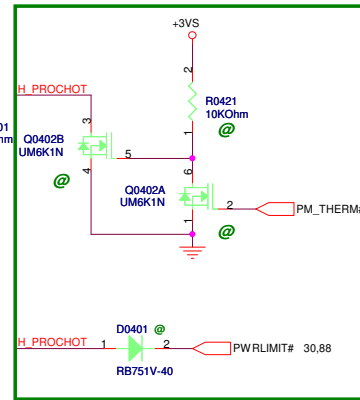
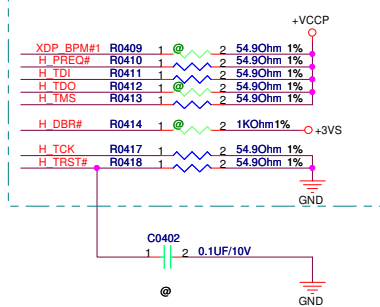


+VCCP  +VCCP 5,7,8,9,11,12,15,18,39,42,82

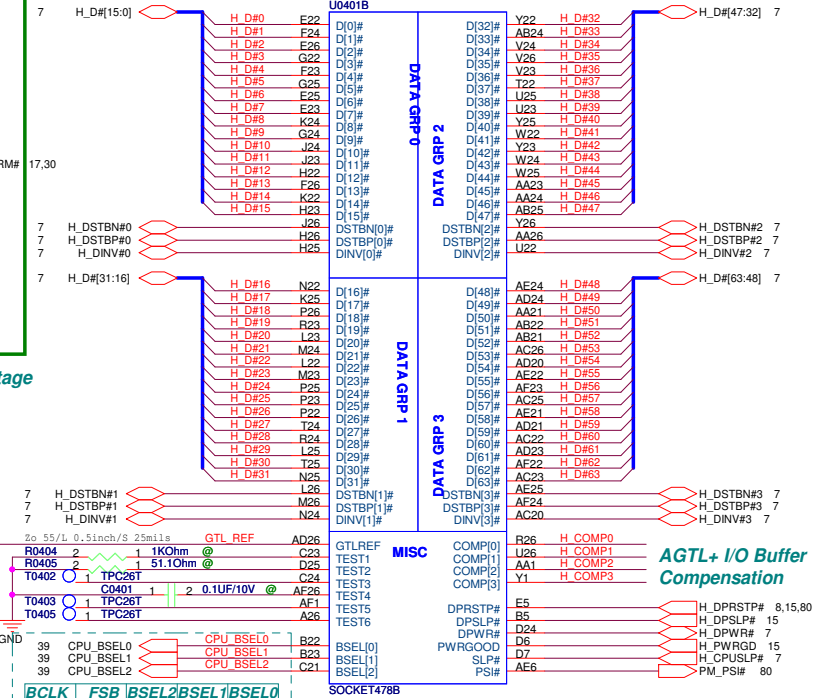
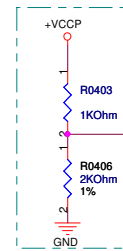
add test point



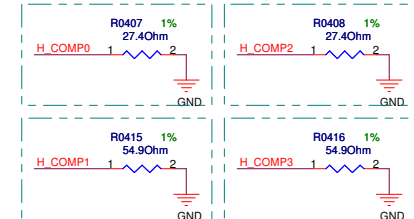
### Default Strapping When Not Used



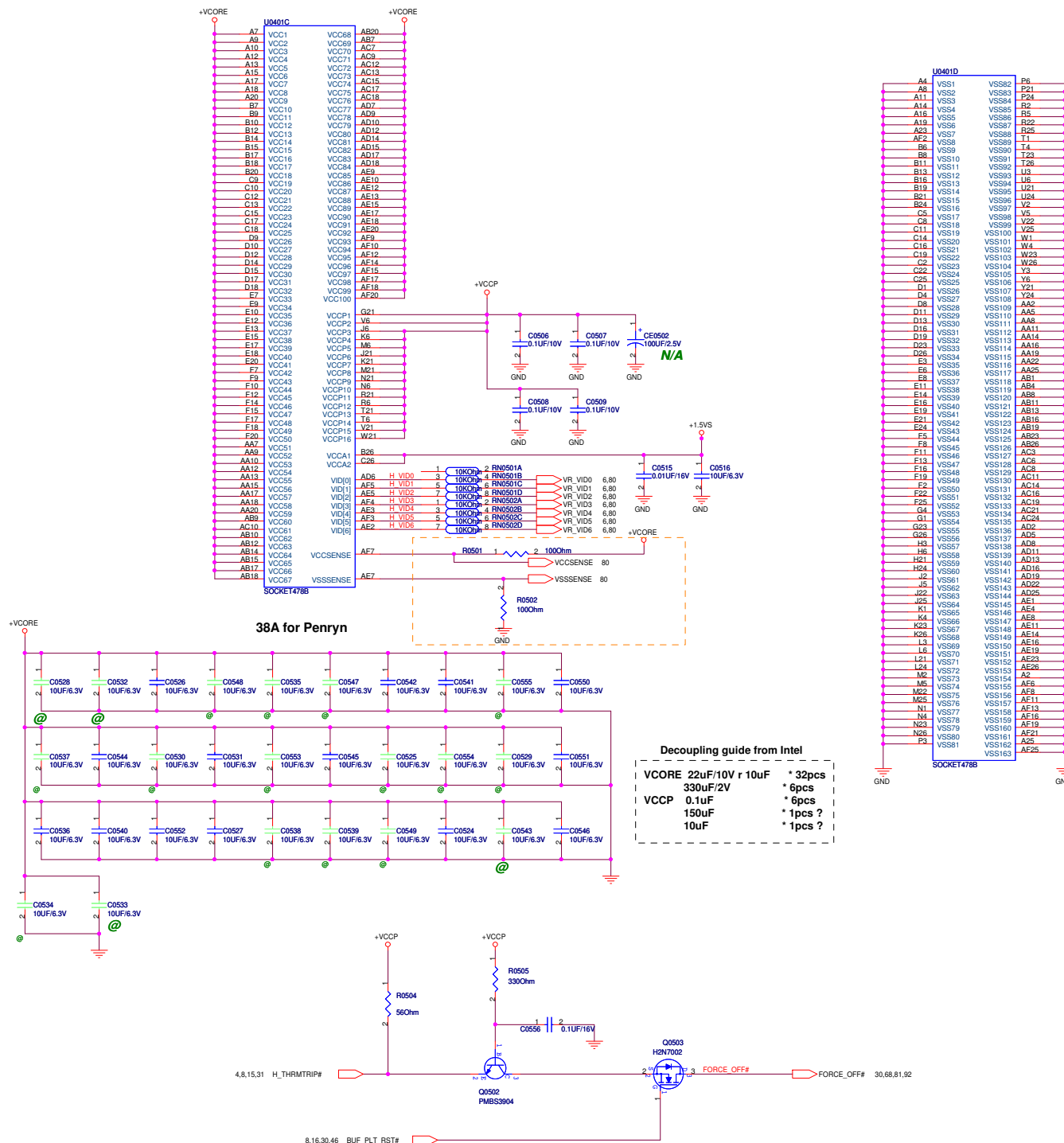
### AGTL+ I/O Buffer Reference

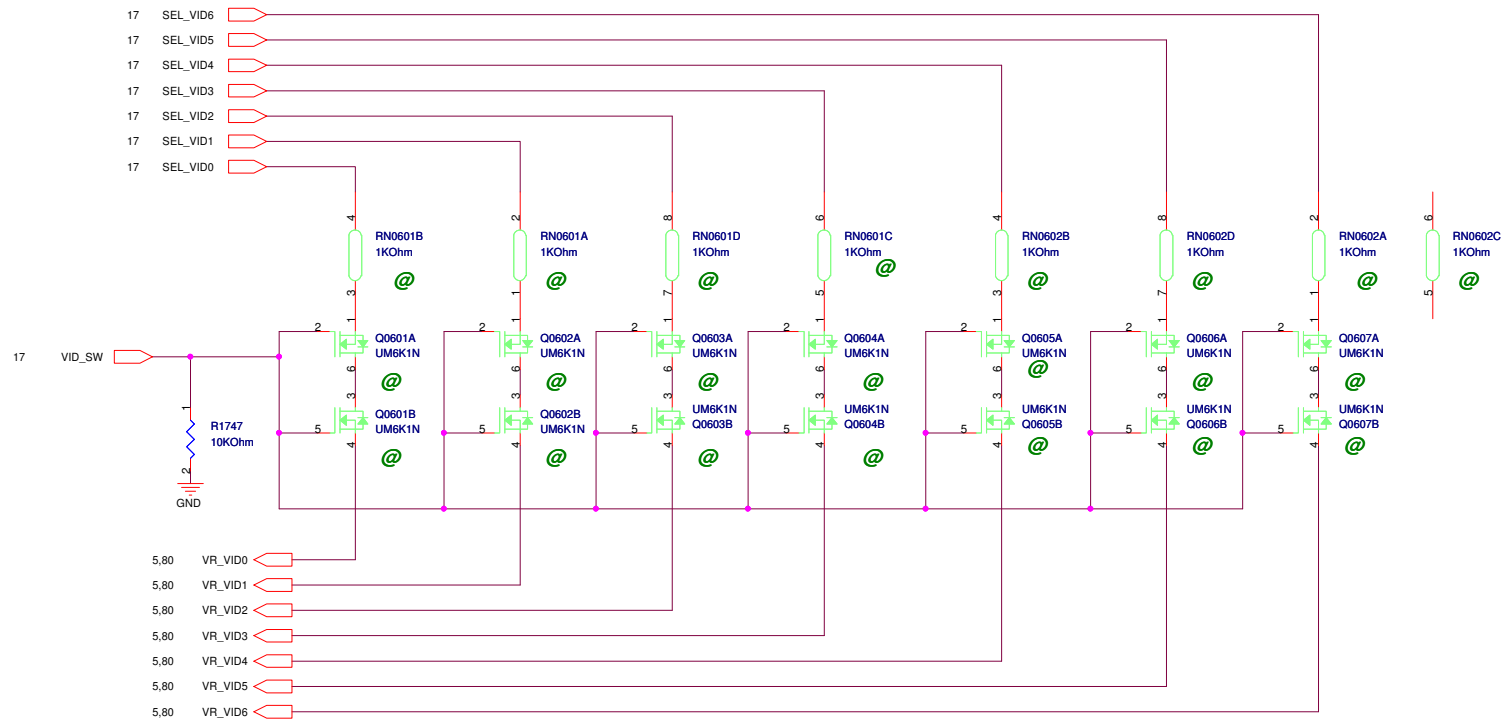


### AGTL+ I/O Buffer Compensation



<Variant Name>

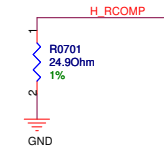




<Variant Name>

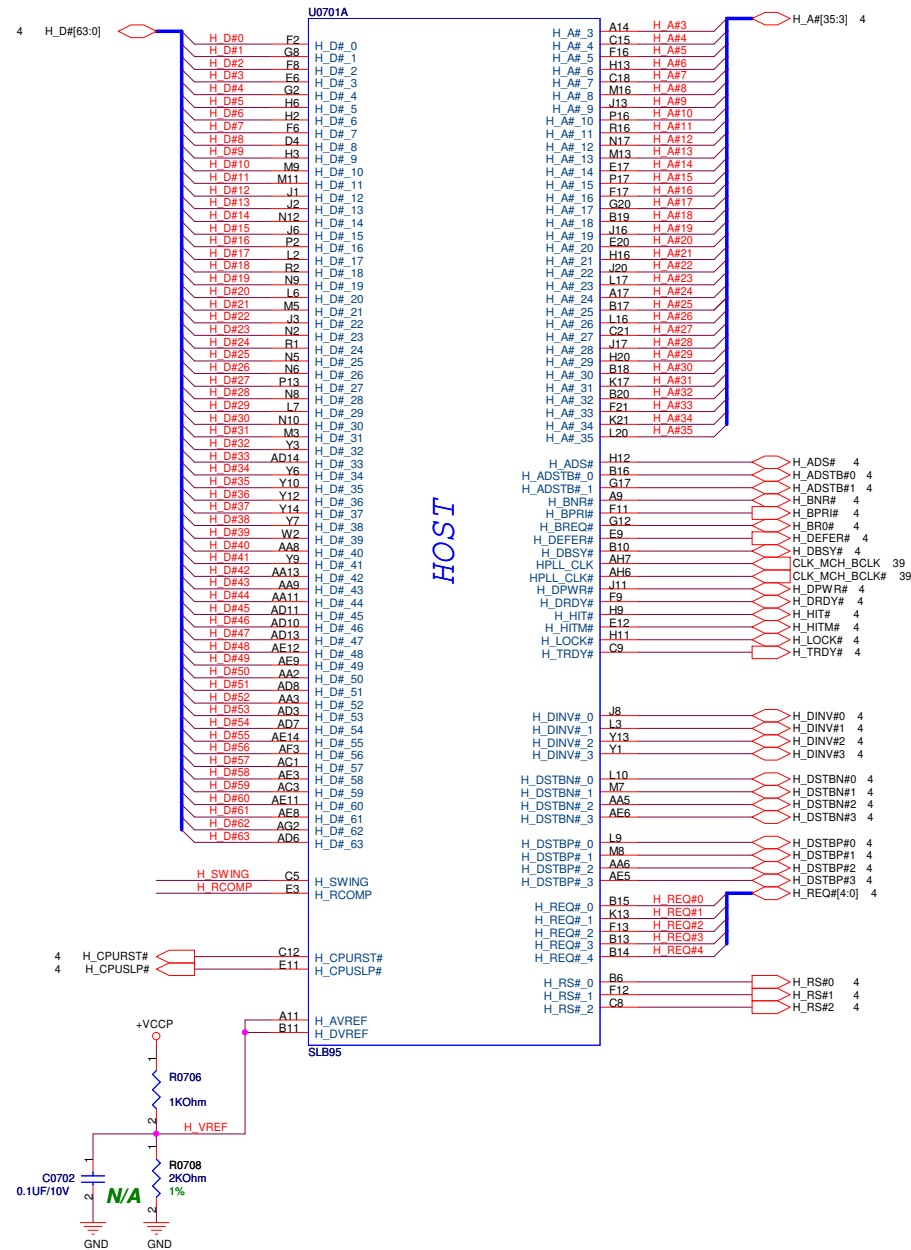
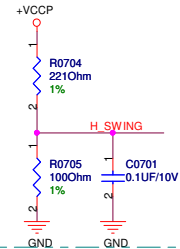
### RCOMP

For Calibrating the FSB I/O Buffer



### Voltage Swing

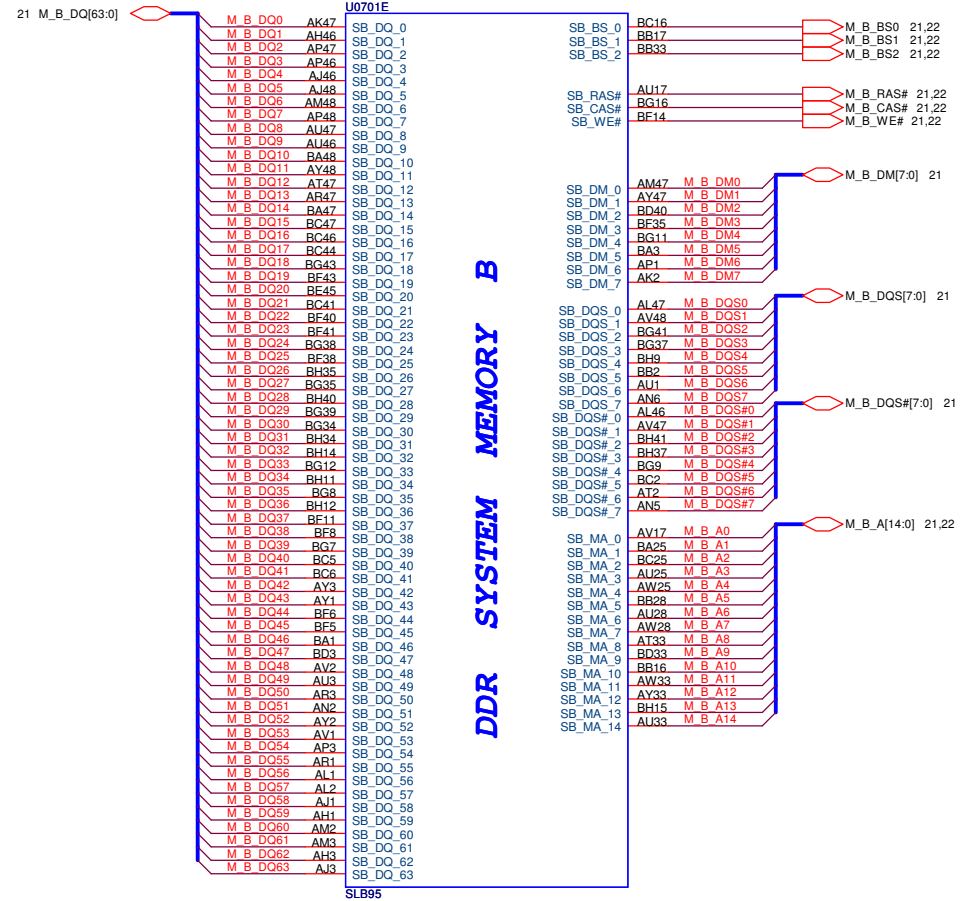
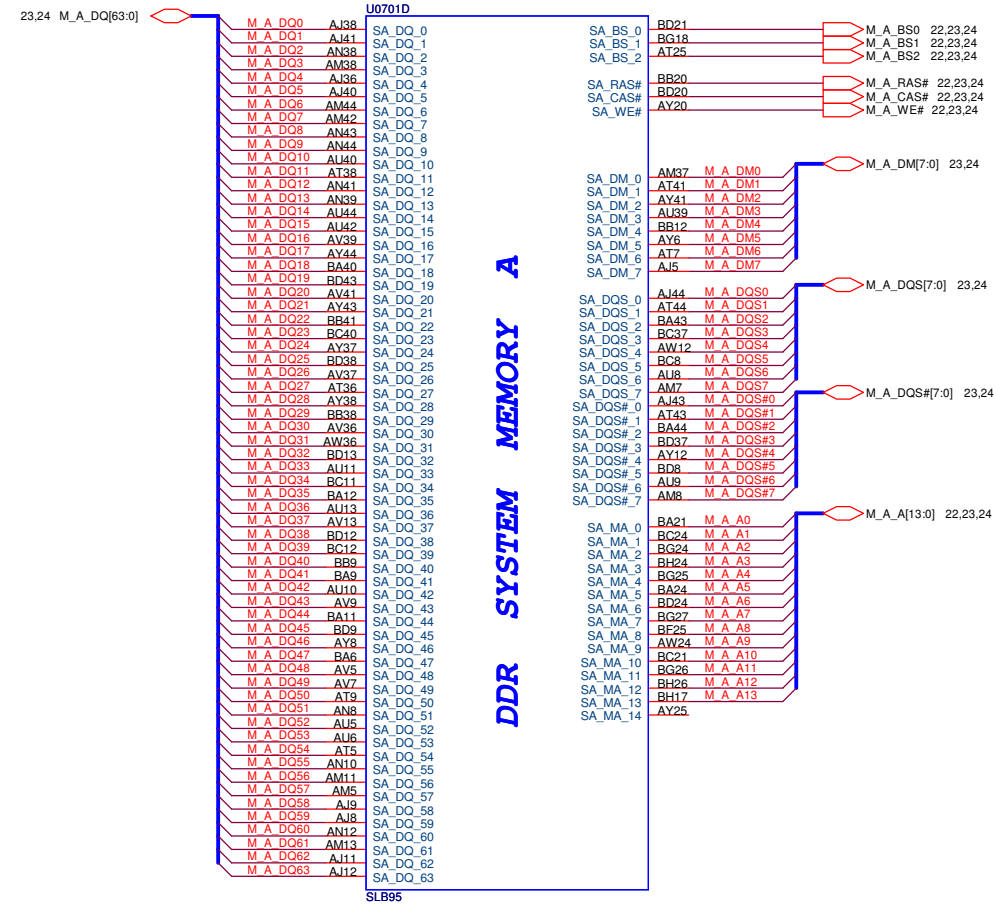
For Providing a Reference Voltage to The FSB RCOMP circuits



<Variant Name>

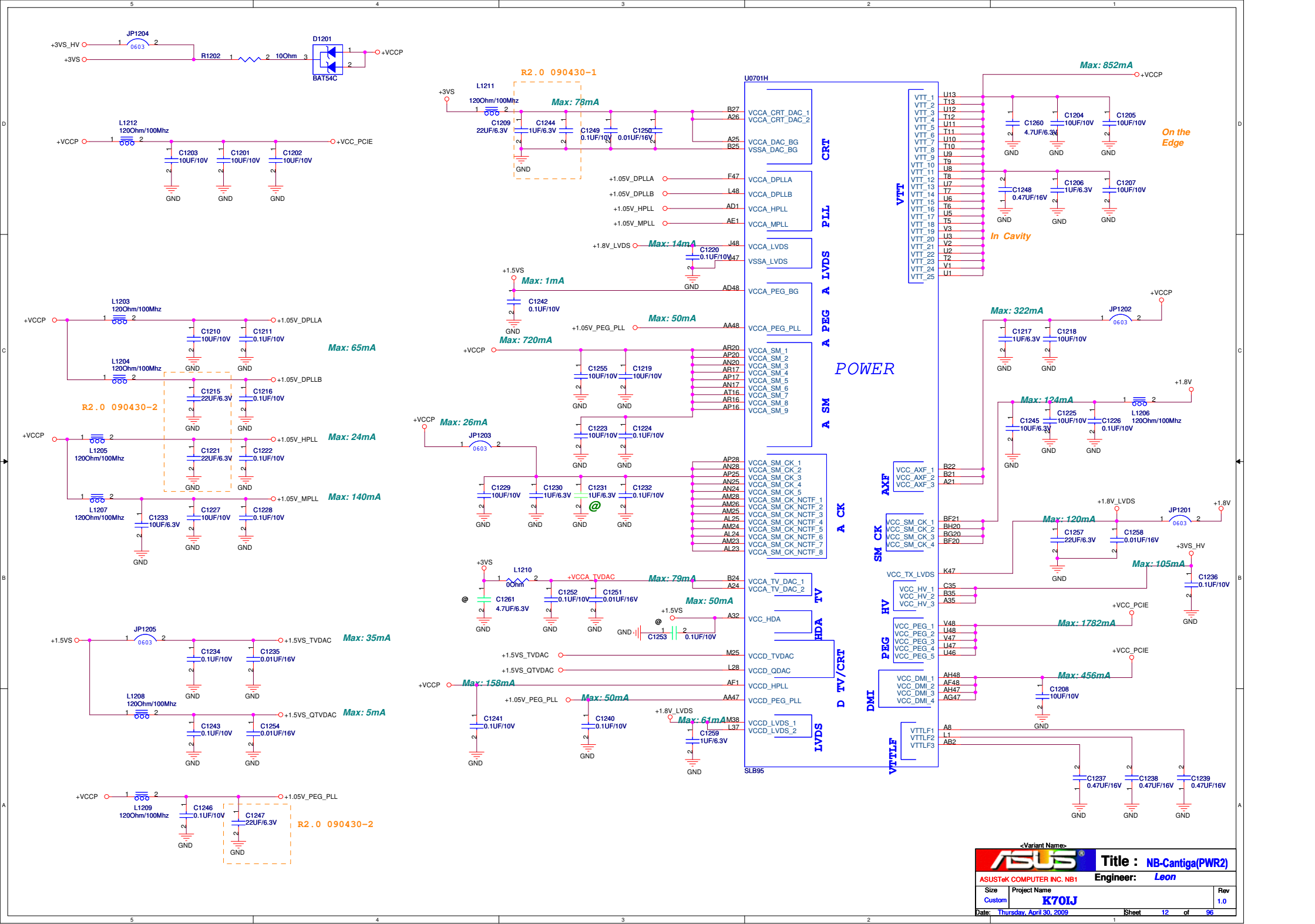


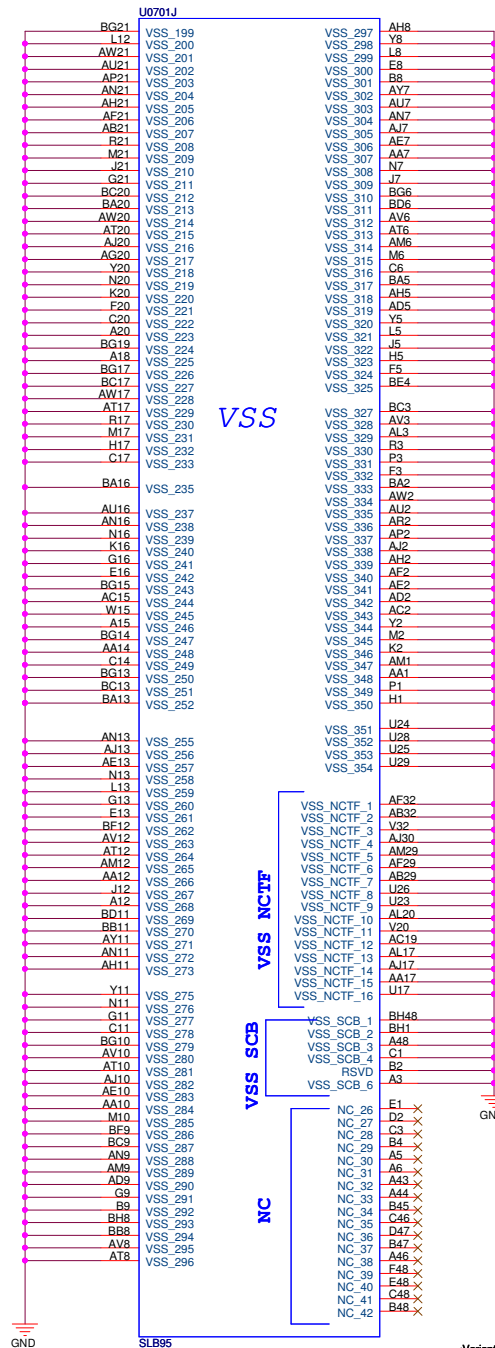
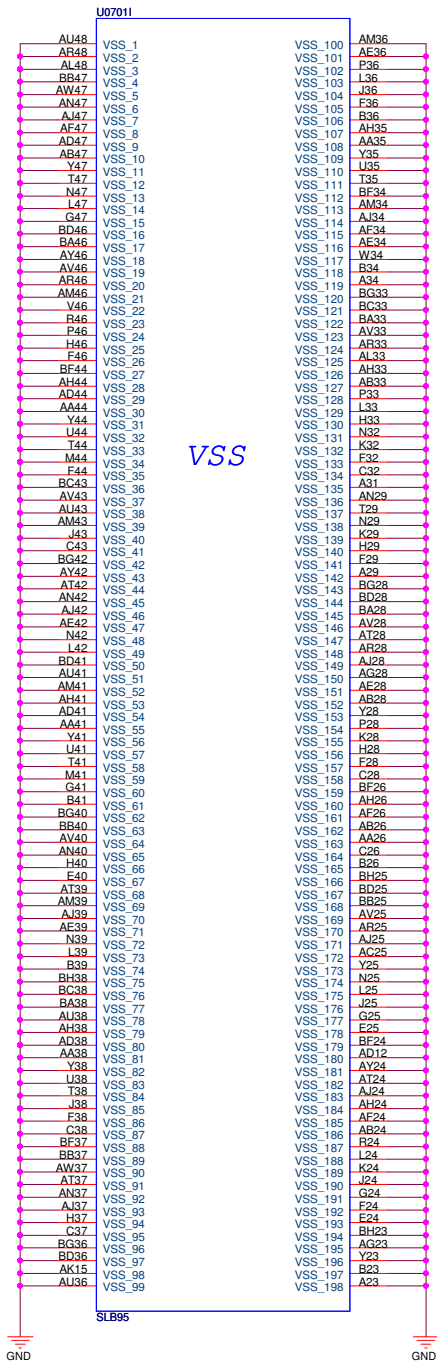




<Variant Name>

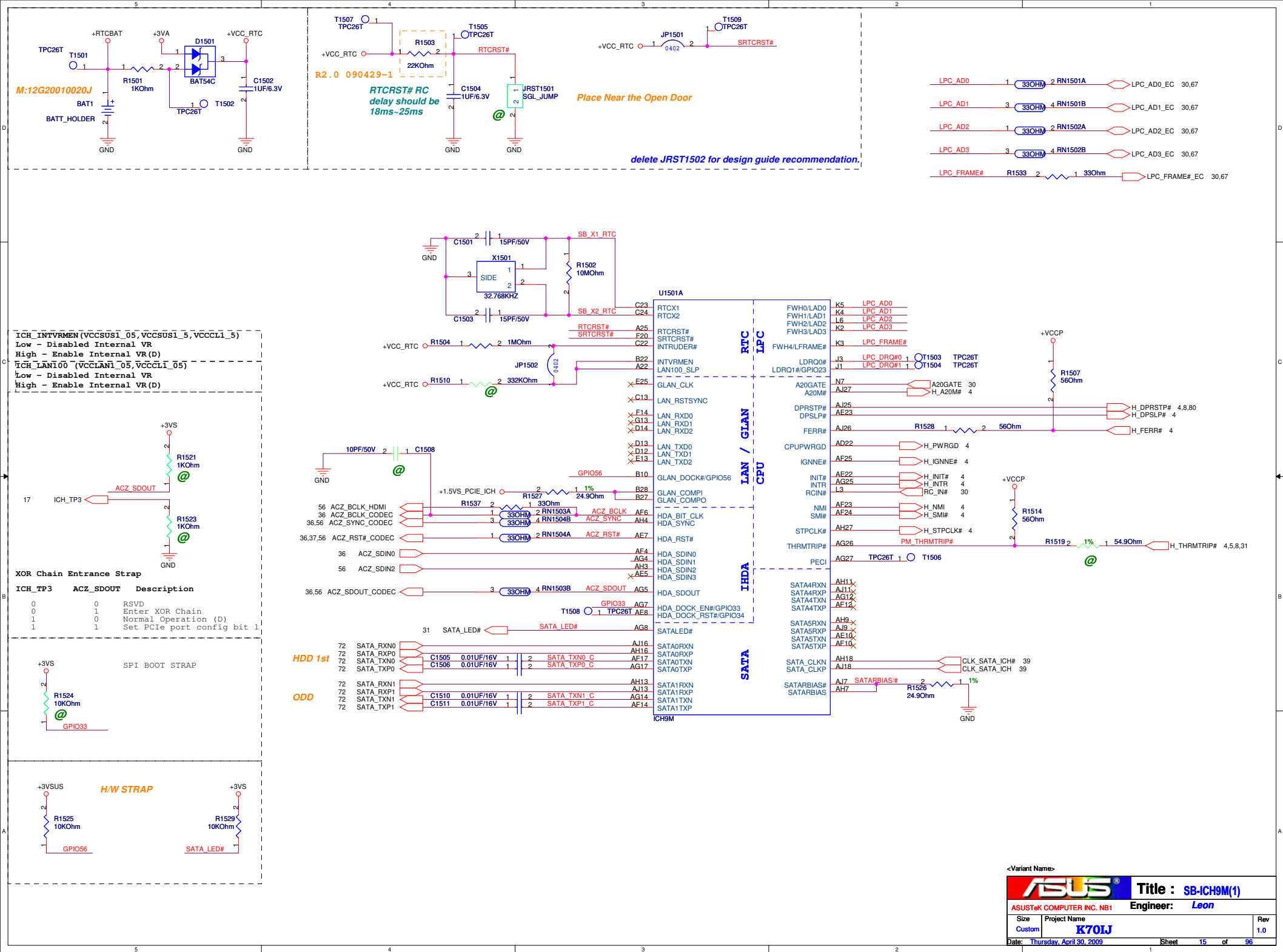




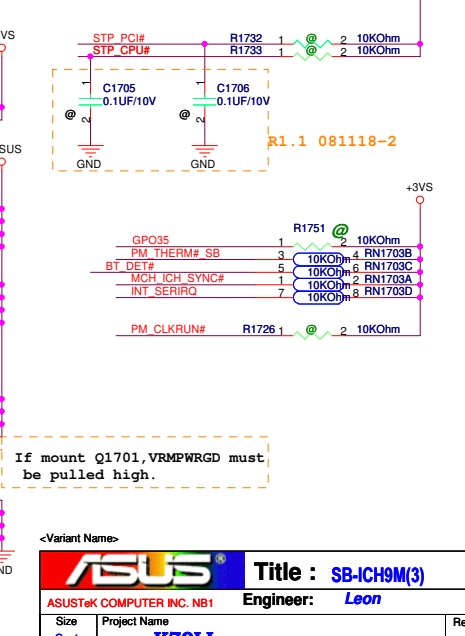
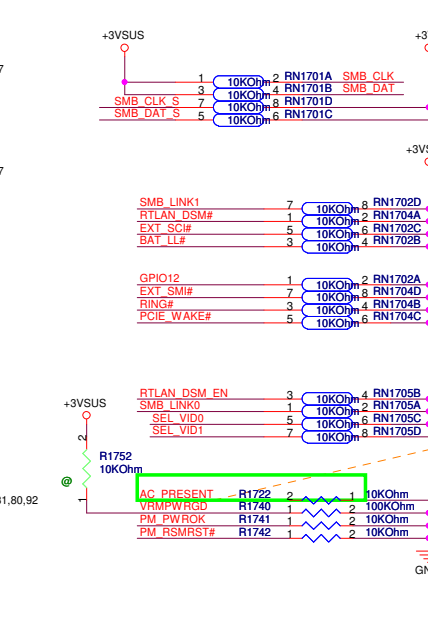
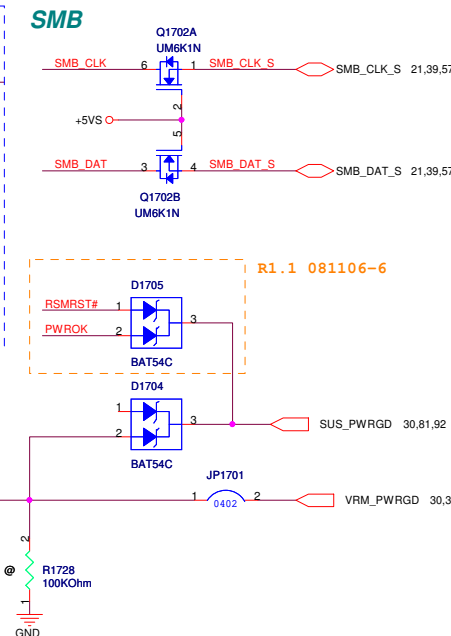
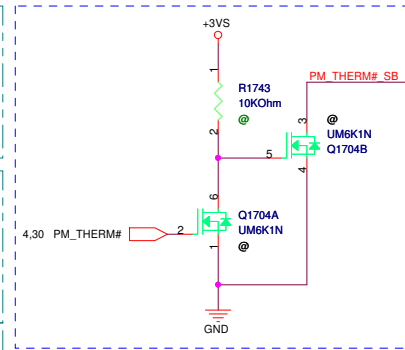
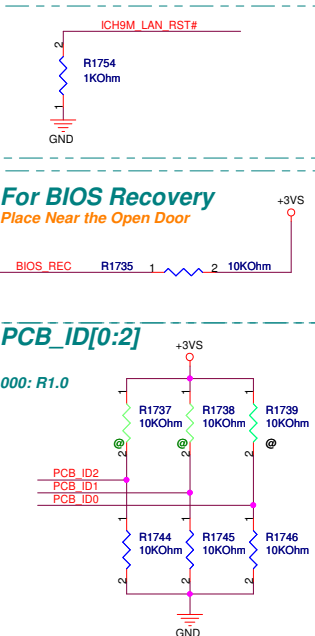
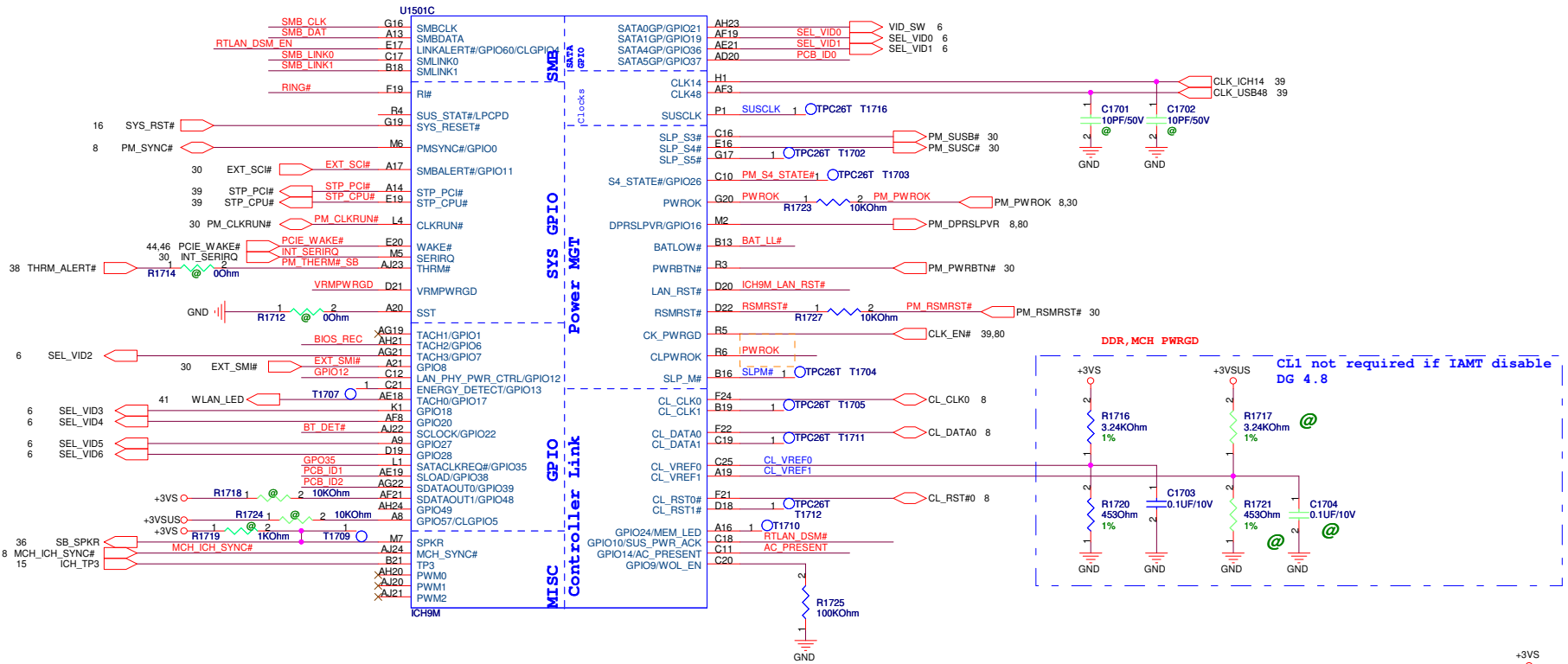


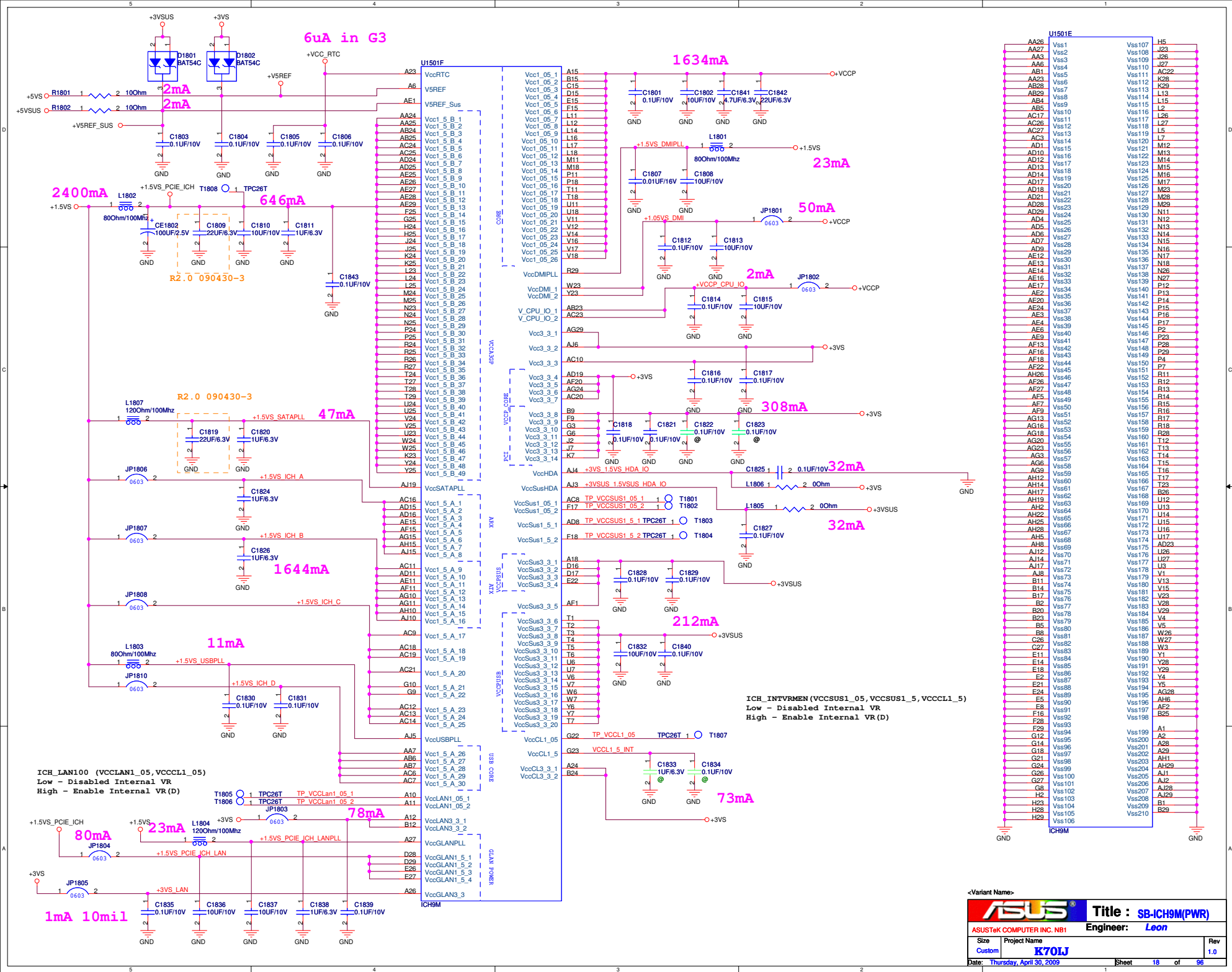
<Variant Name>











D

C

8

A

<Variant Name>



**Title :** Schematic page name

ASUSTeK COMPUTER INC

**Engineer:** Leon

Size  
Custom

|              |              |
|--------------|--------------|
| Project Name | <b>K70IJ</b> |
|--------------|--------------|

|     |  |
|-----|--|
| Rev |  |
| 1.0 |  |

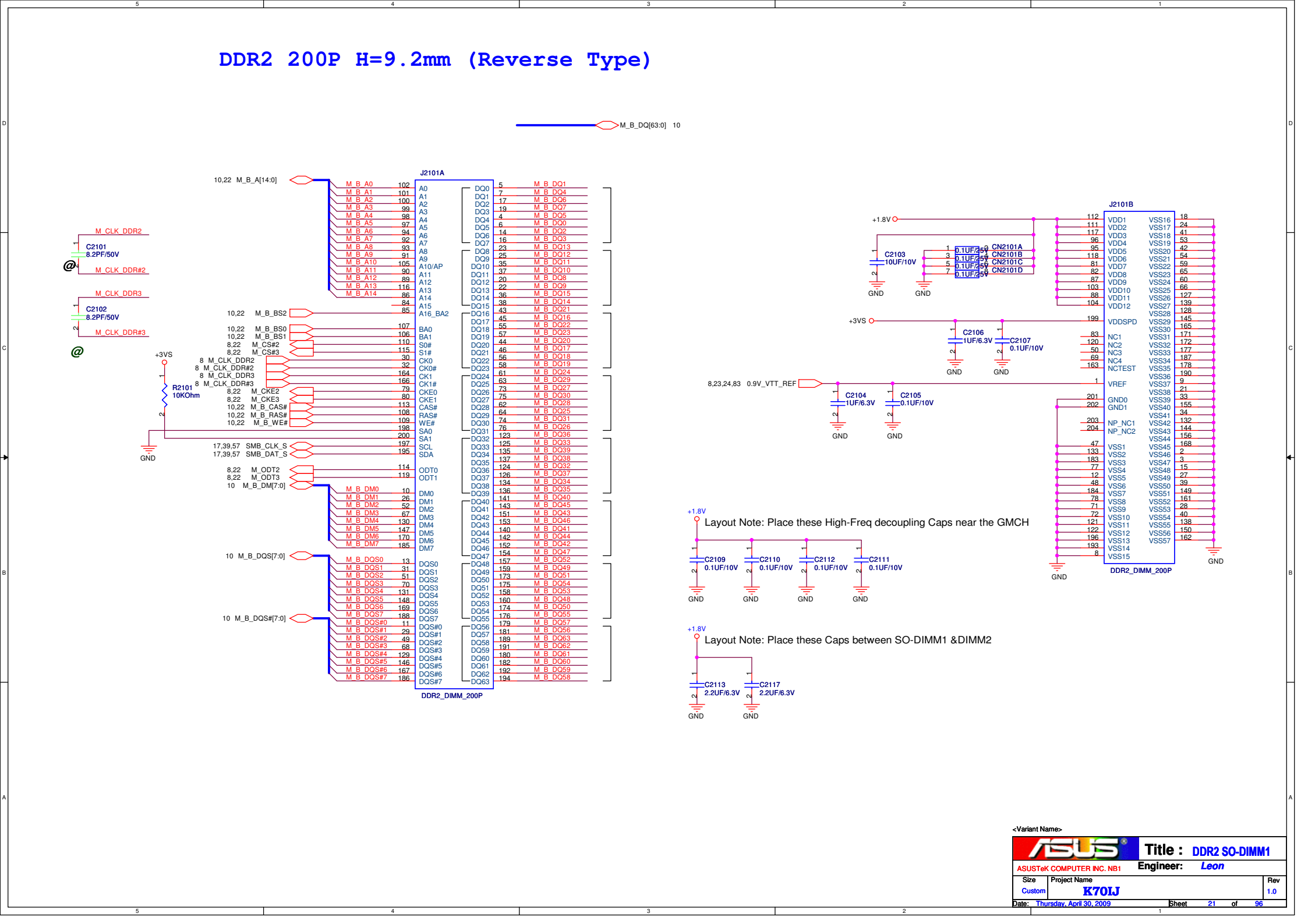
Date: Wednesday, April 29, 2009

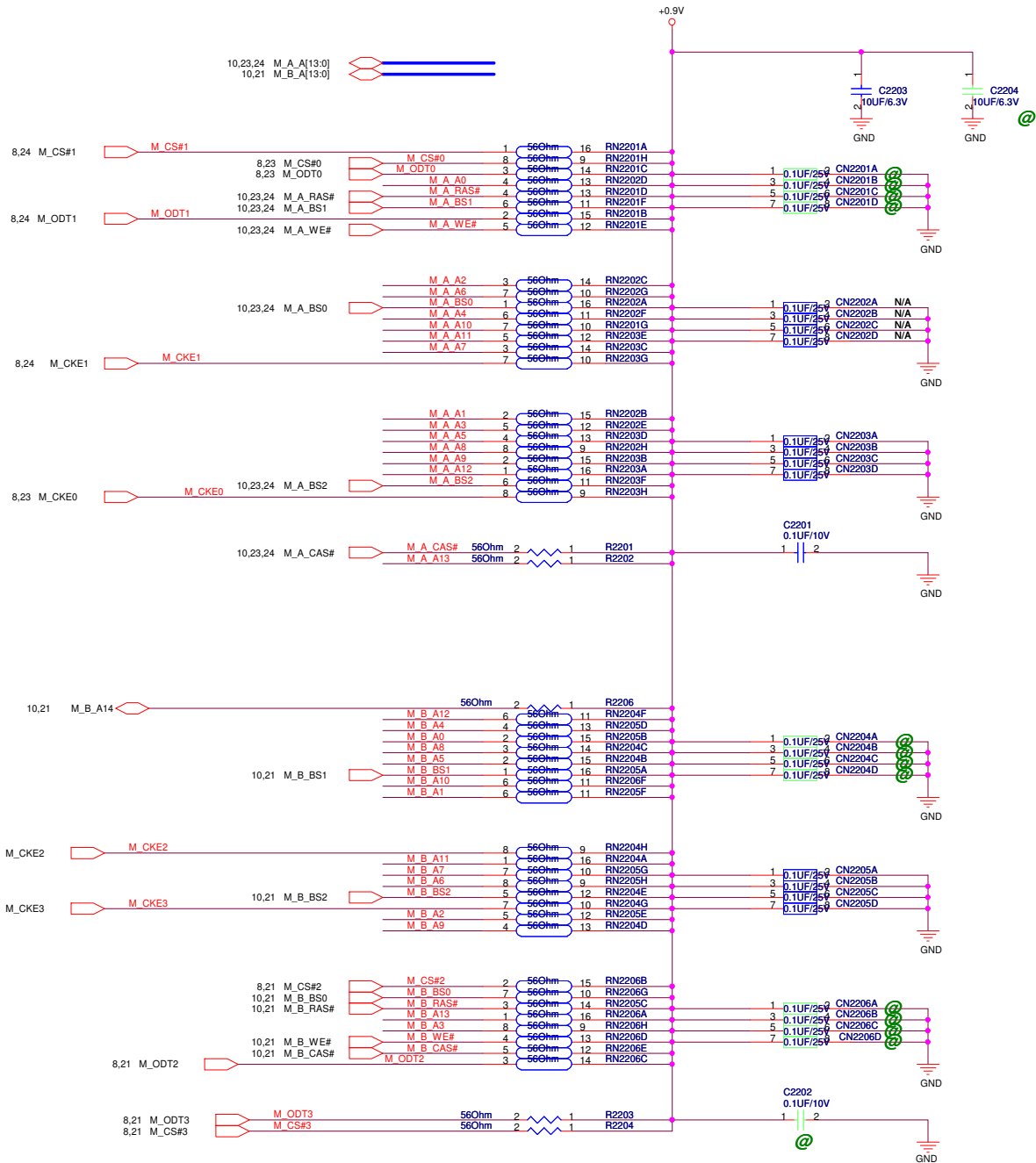
Sheet 19 of 96



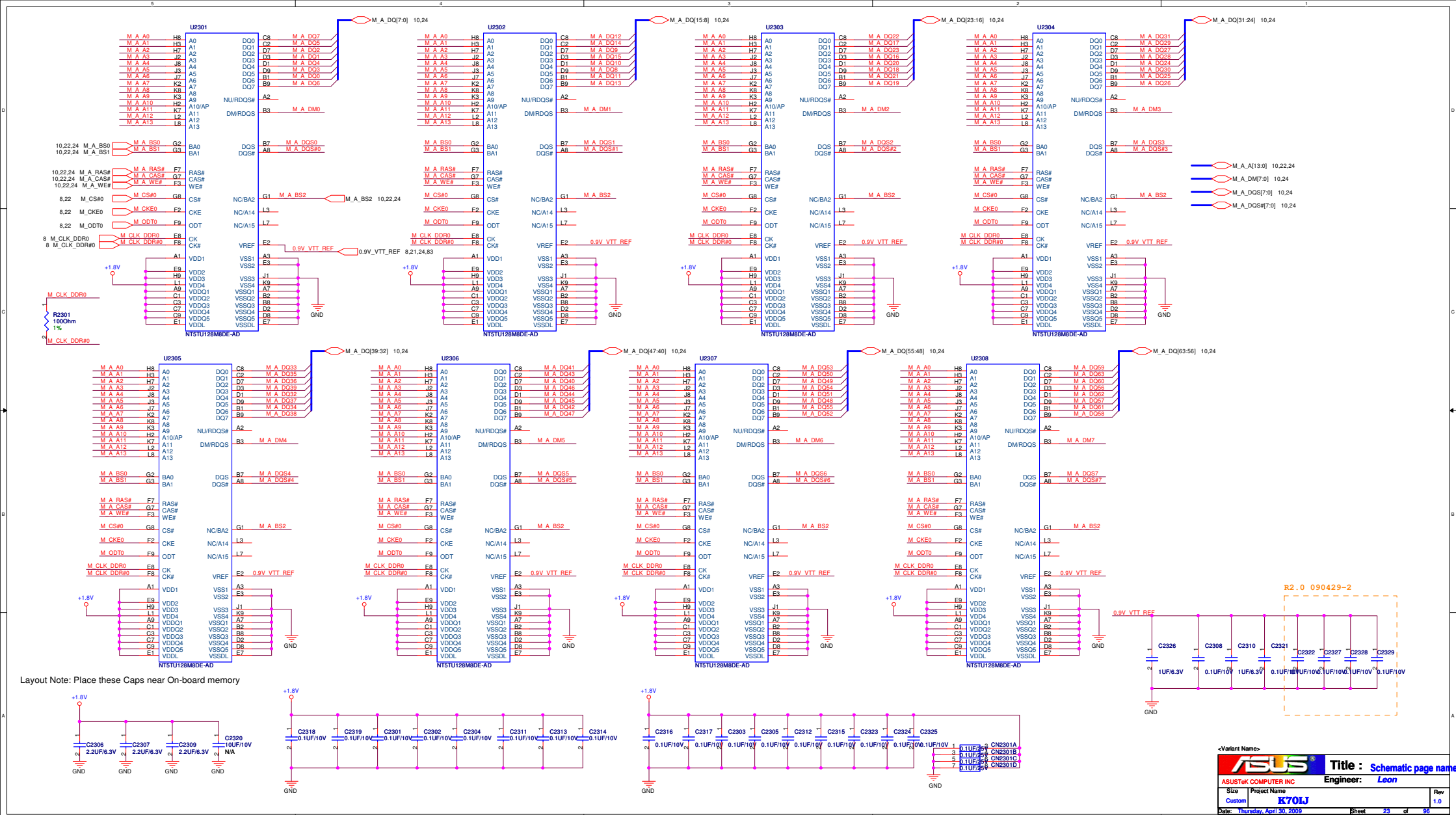
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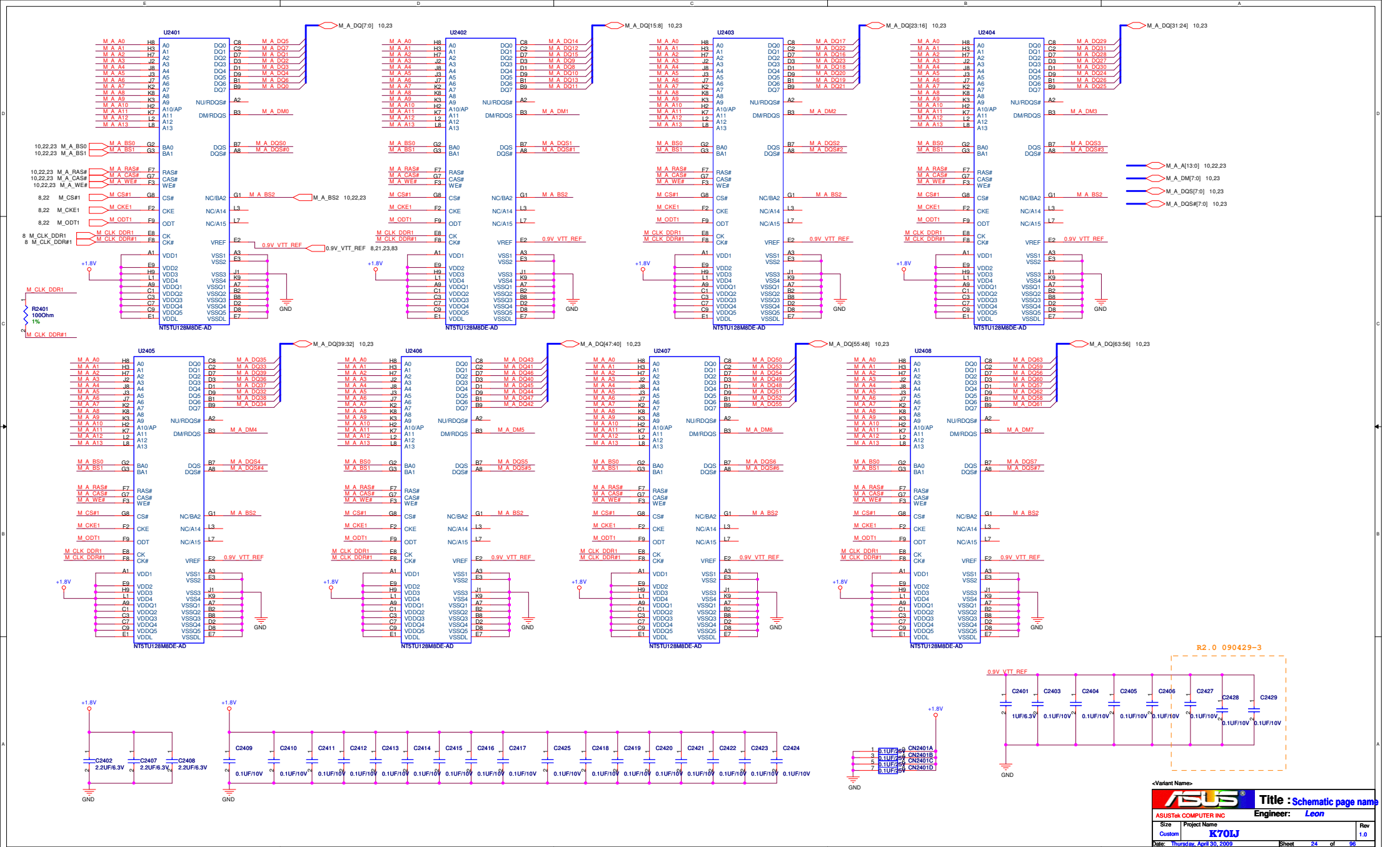
|                                                                                       |              |                       |          |
|---------------------------------------------------------------------------------------|--------------|-----------------------|----------|
|  |              | Title : DDR2 SO-DIMM0 |          |
| ASUSTeK COMPUTER INC. NB1                                                             |              | Engineer: Leon        |          |
| Size                                                                                  | Project Name |                       | Rev      |
| A3                                                                                    | K70IJ        |                       | 1.0      |
| Date: Wednesday, April 29, 2009                                                       |              | Sheet                 | 20 of 96 |

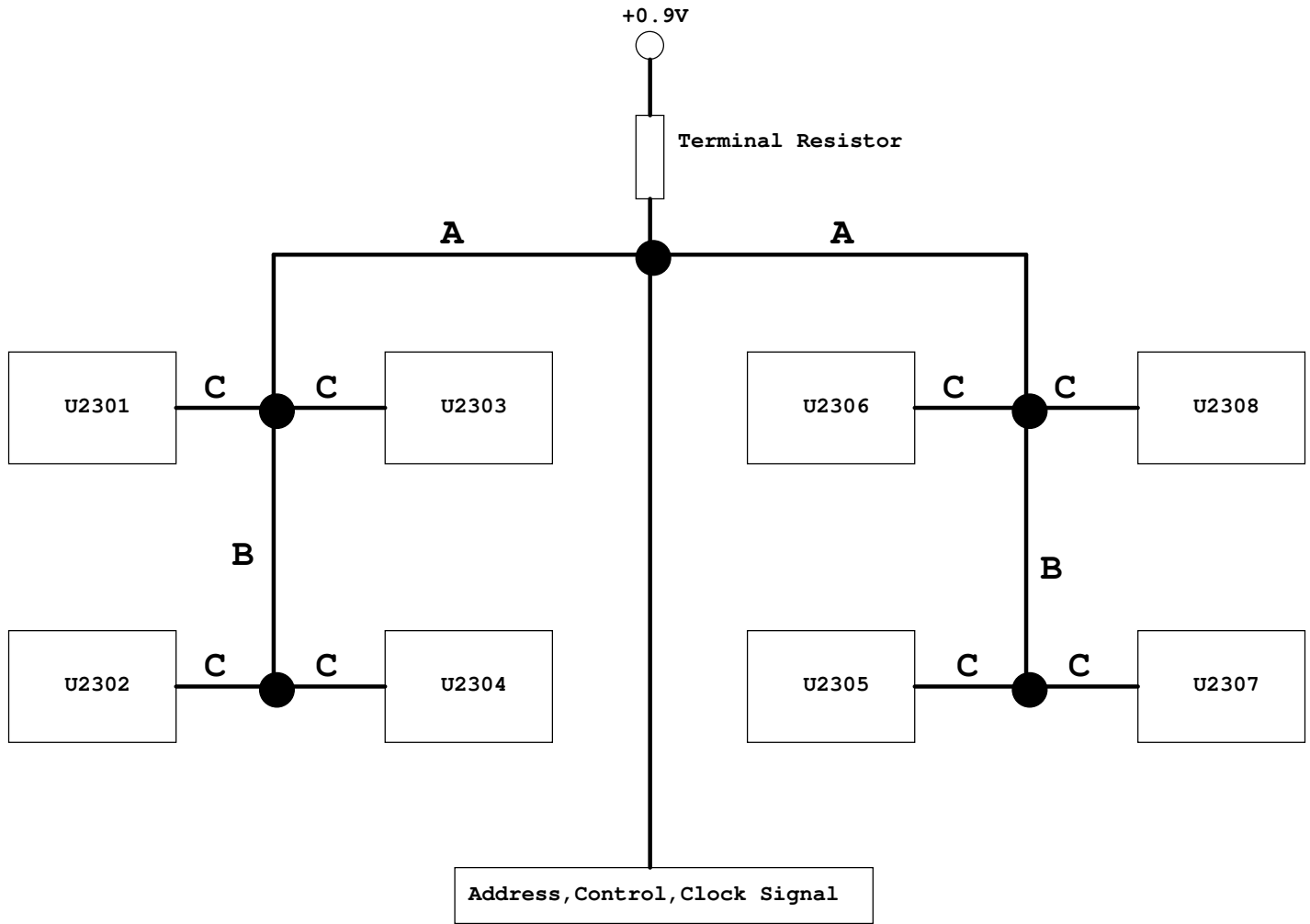
[illegible][illegible]



<Variant Name>







<Variant Name>



Title : Schematic page name

ASUSTek COMPUTER INC

Engineer: Leon

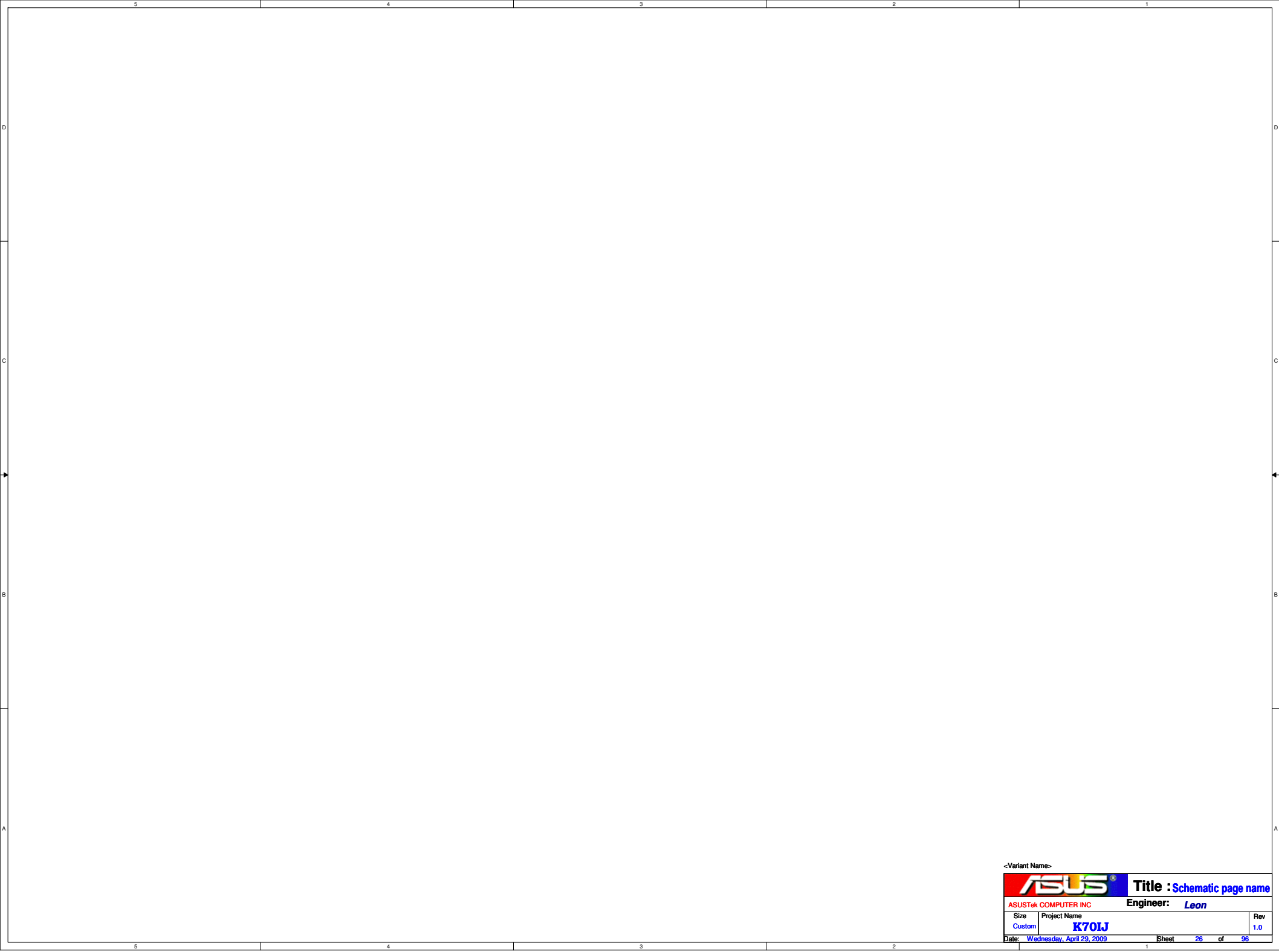
Size  
Custom

Project Name  
**K70IJ**

Rev  
1.0

Date: Wednesday, April 29, 2009

Sheet 25 of 96



<Variant Name>



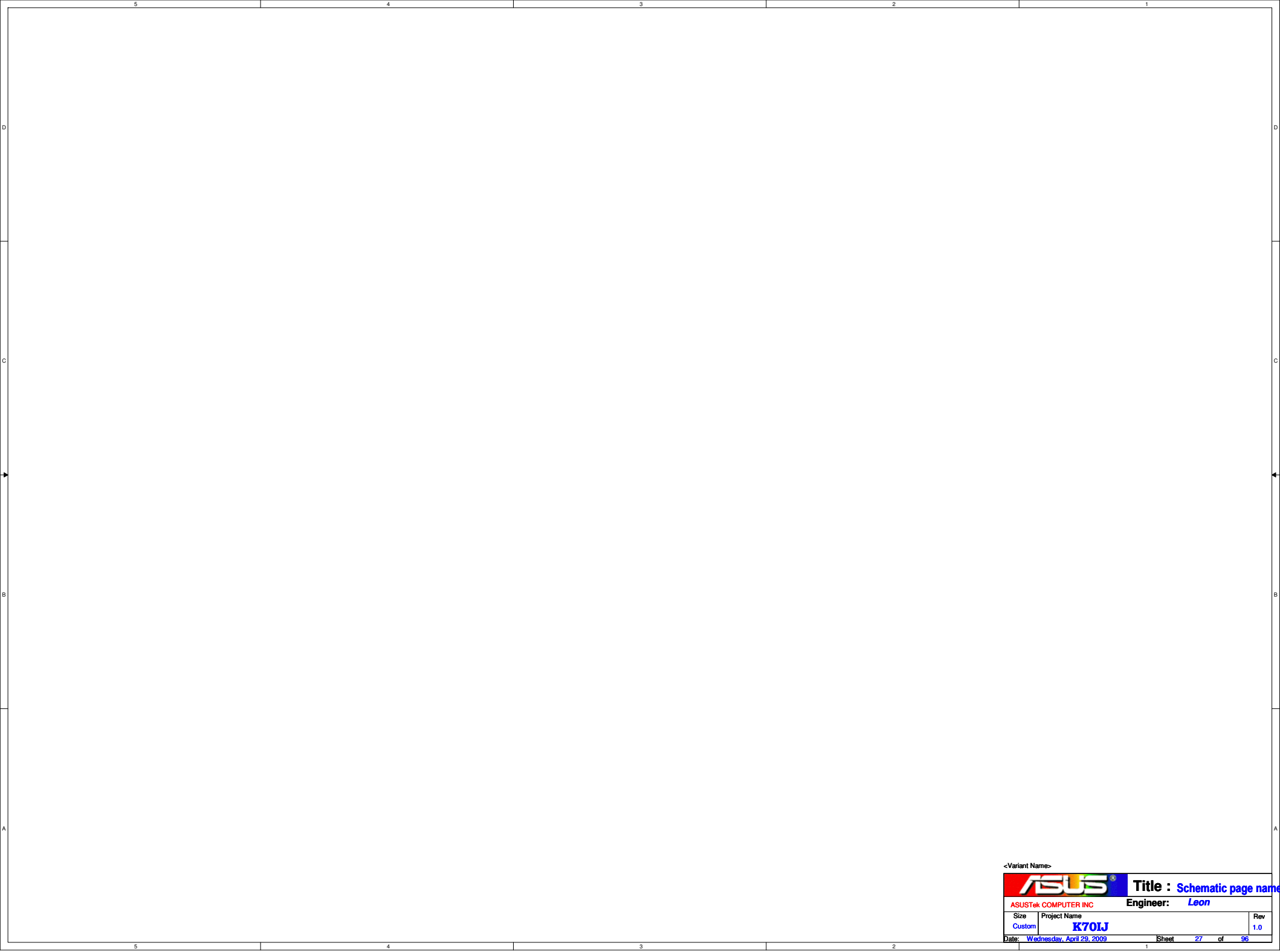
Title :Schematic page name

ASUSTek COMPUTER INC

Engineer: Leon

|        |              |     |
|--------|--------------|-----|
| Size   | Project Name | Rev |
| Custom | K70IJ        | 1.0 |

Date: Wednesday, April 29, 2009Sheet 26 of 96



<Variant Name>



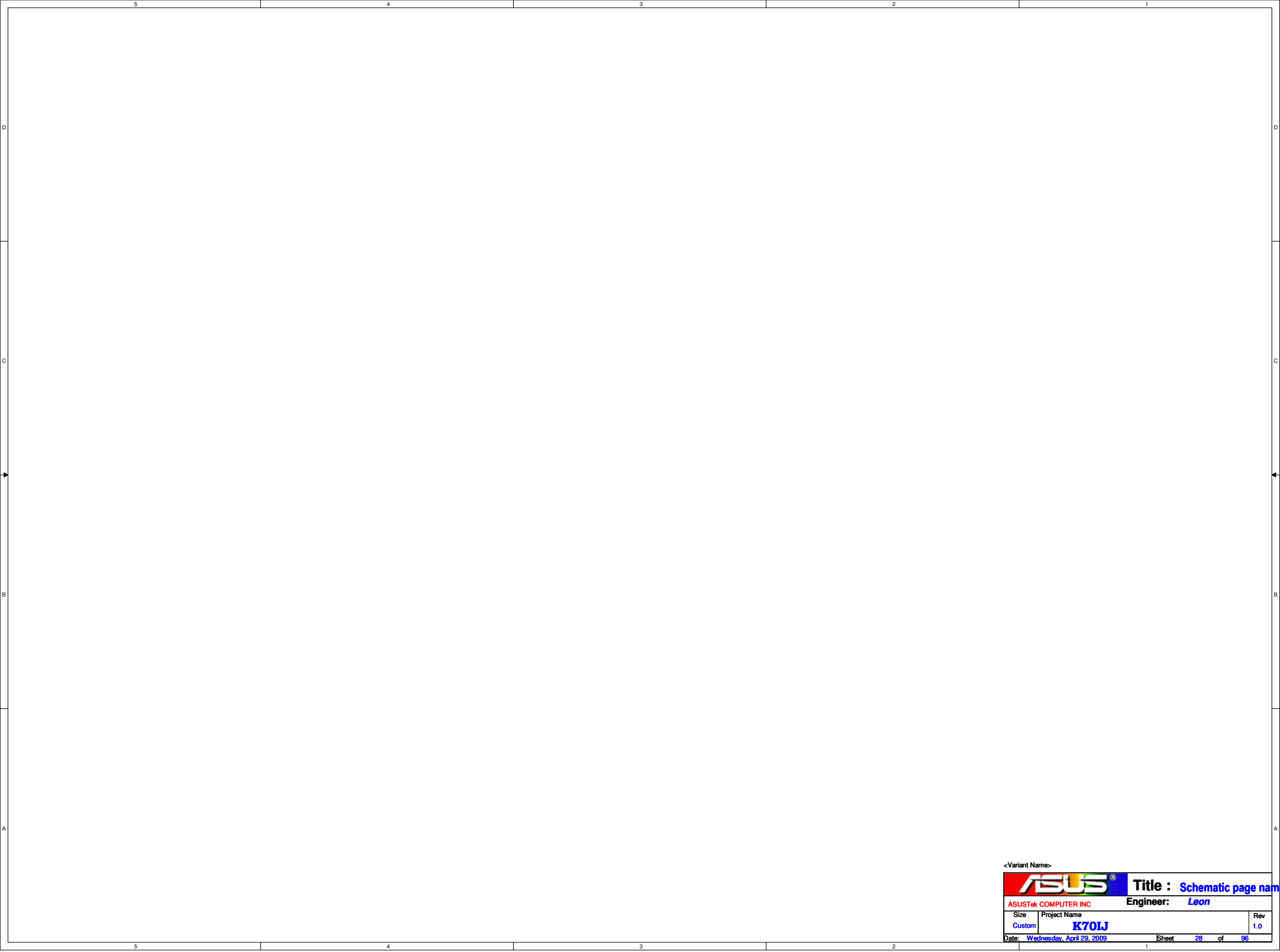
Title : Schematic page name

ASUSTek COMPUTER INC

Engineer: Leon

|        |              |     |
|--------|--------------|-----|
| Size   | Project Name | Rev |
| Custom | K70IJ        | 1.0 |

Date: Wednesday, April 29, 2009Sheet 27 of 96



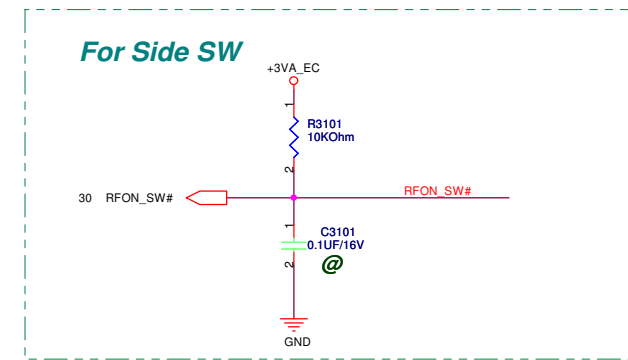
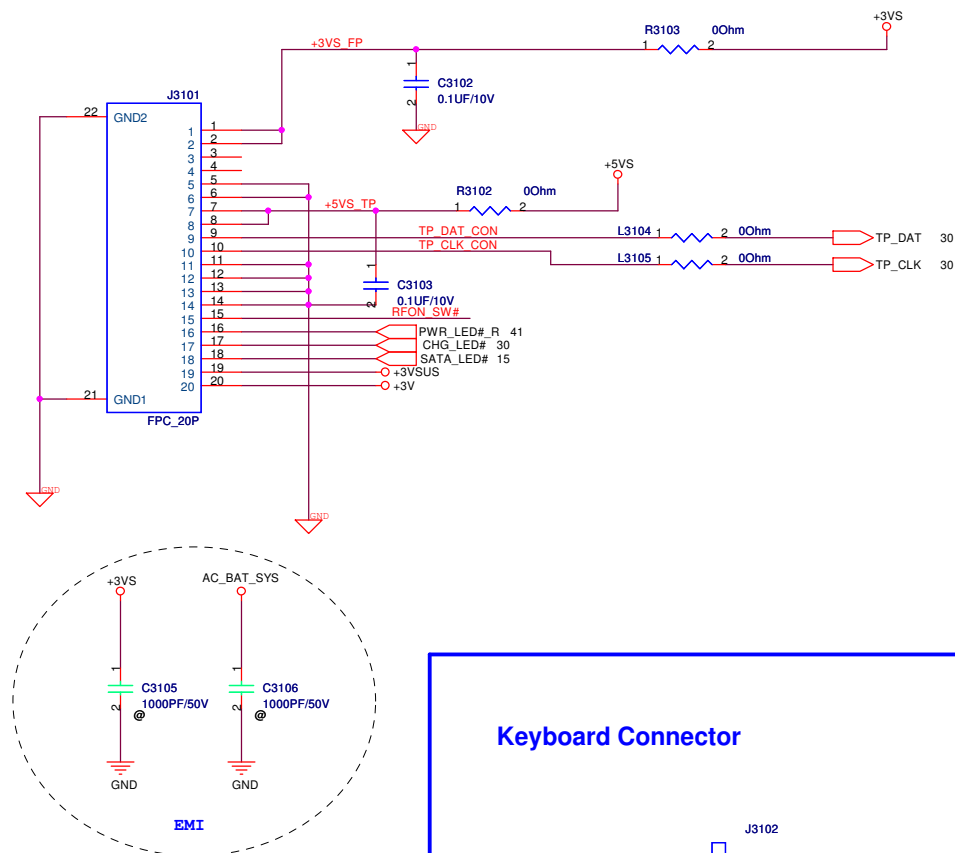
|                                                                                       |                |  |                             |  |
|---------------------------------------------------------------------------------------|----------------|--|-----------------------------|--|
| <Variant Name>                                                                        |                |  | Title : Schematic page name |  |
|  |                |  | Engineer: Leon              |  |
| Size                                                                                  | Project Name   |  | Rev                         |  |
| Custom                                                                                | K70IJ          |  | 1.0                         |  |
| Date: Wednesday, April 29, 2009                                                       | Sheet 28 of 96 |  |                             |  |

|   |   |   |   |   |   |
|---|---|---|---|---|---|
|   | 5 | 4 | 3 | 2 | 1 |
| D |   |   |   |   |   |
| C |   |   |   |   |   |
| B |   |   |   |   |   |
| A |   |   |   |   |   |
|   | 5 | 4 | 3 | 2 | 1 |

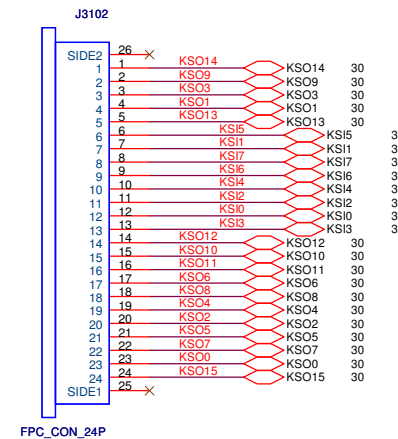
|                      |                           |                                                                                       |       |                    |       |  |
|----------------------|---------------------------|---------------------------------------------------------------------------------------|-------|--------------------|-------|--|
| <Variant Name>       |                           |  |       | Title : <b>N/A</b> |       |  |
| ASUSTek COMPUTER INC |                           | Engineer:                                                                             |       | <b>Leon</b>        |       |  |
| Size                 | Project Name              |                                                                                       |       | Rev                |       |  |
| Custom               | <b>K70IJ</b>              |                                                                                       |       | 1.0                |       |  |
| Date:                | Wednesday, April 29, 2009 |                                                                                       | Sheet | 29                 | of 96 |  |



## TouchPad & FingerPrint

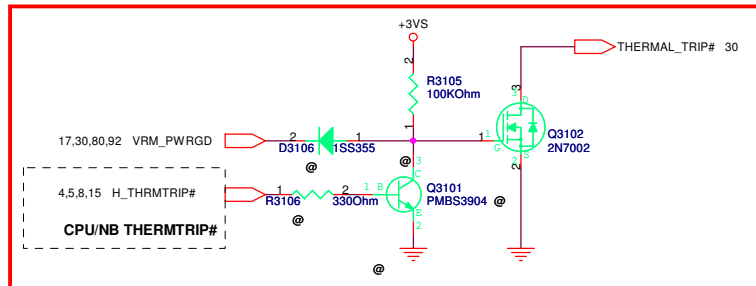


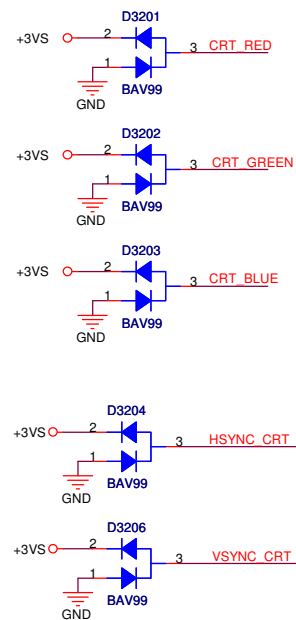
## Keyboard Connector



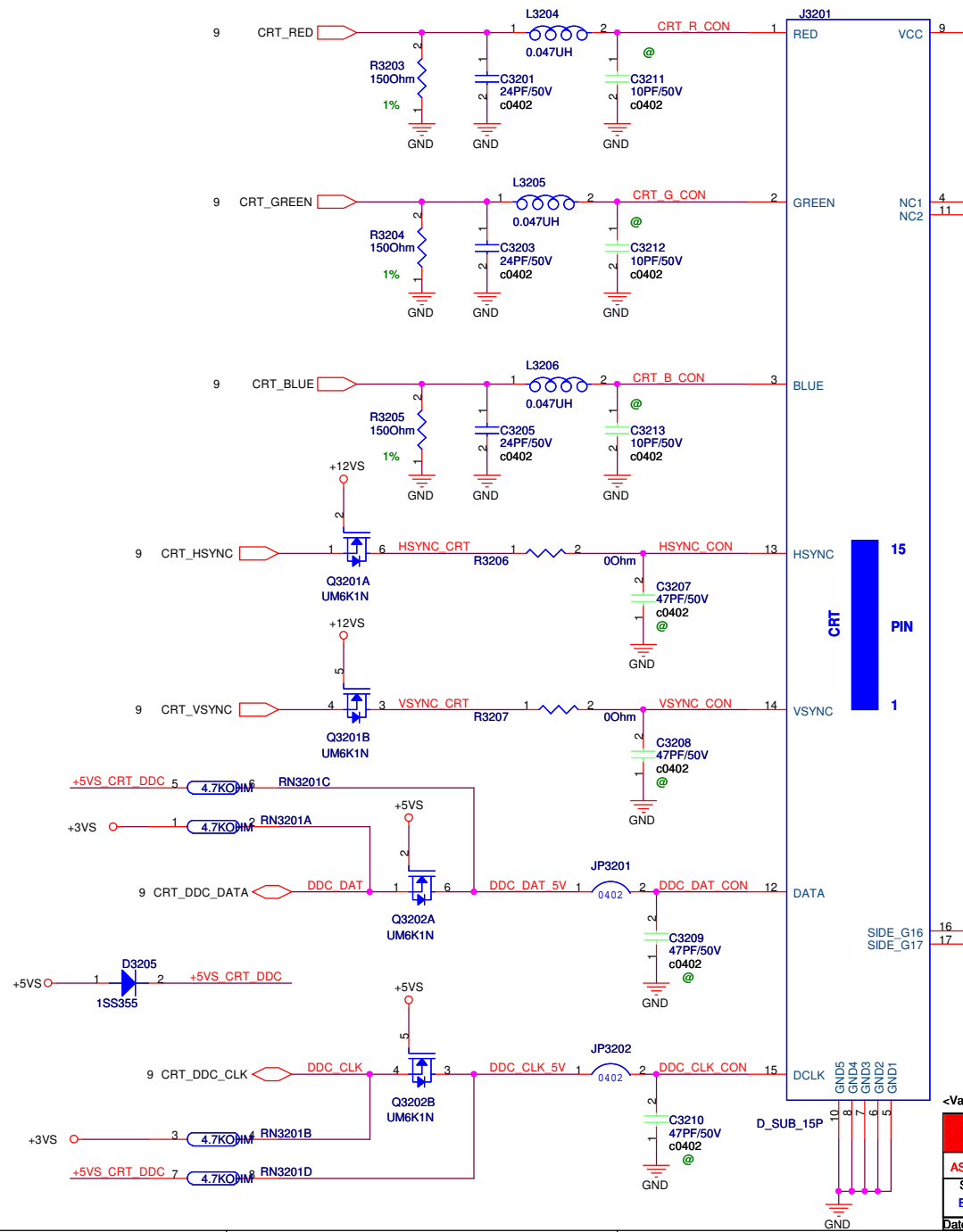
## For Thermal Control Method

Remove redundant components

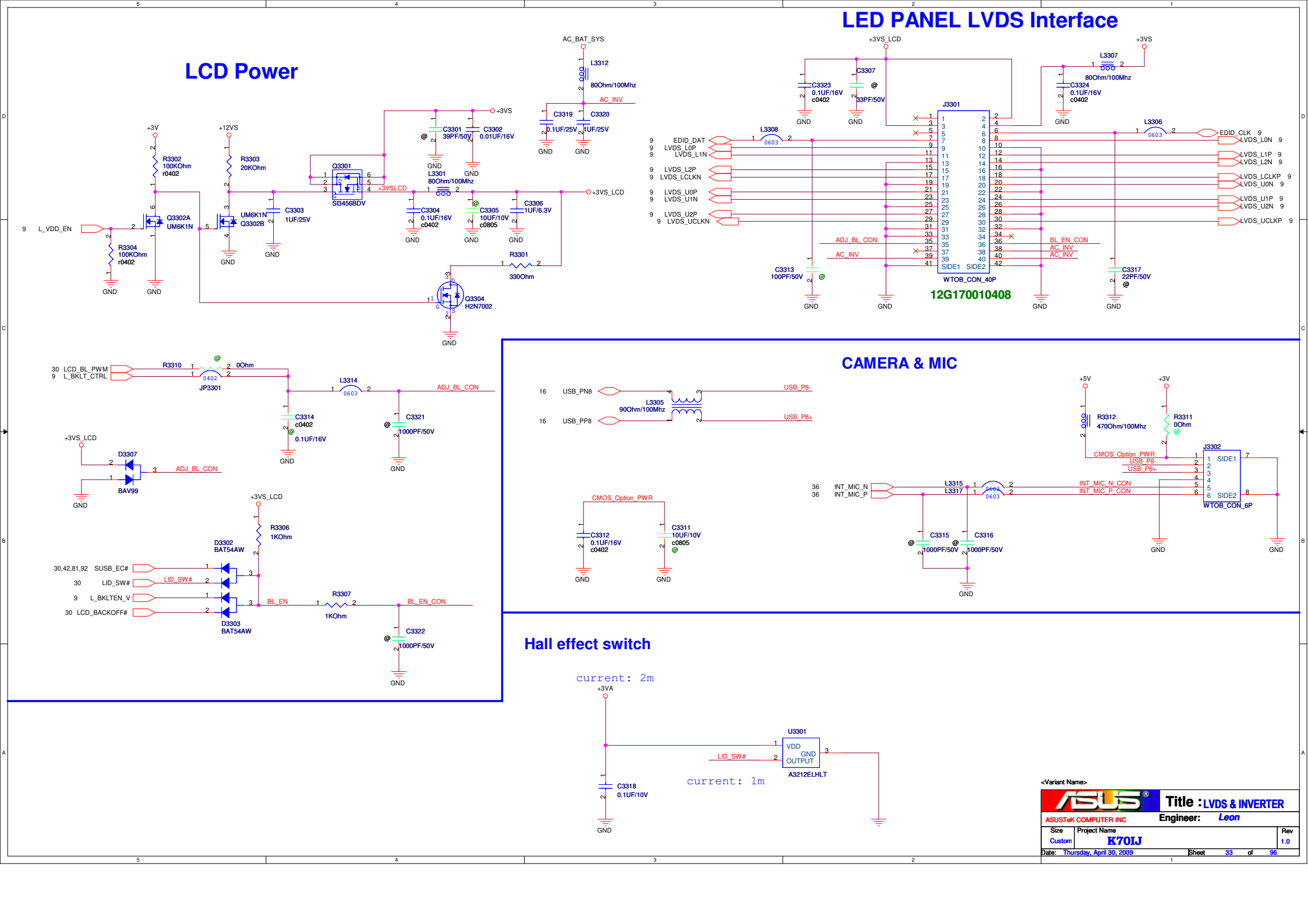




PLACE ESD Diodes near VGA port



|                                |                       |                |                |            |
|--------------------------------|-----------------------|----------------|----------------|------------|
| ASUS                           |                       |                | Title : CRT    |            |
| ASUSTeK COMPUTER INC           |                       |                | Engineer: Leon |            |
| Size<br>B                      | Project Name<br>K701J |                |                | Rev<br>1.0 |
| Date: Thursday, April 30, 2009 |                       | Sheet 32 of 96 |                |            |

[illegible][illegible][illegible]

5 4 3 2 1

D

C

B

A

*For Bluetooth*

<Variant Name>

|                                                                                       |                              |                       |            |
|---------------------------------------------------------------------------------------|------------------------------|-----------------------|------------|
|  |                              | <b>Title : BT</b>     |            |
| ASUSTeK COMPUTER INC                                                                  |                              | <b>Engineer: Leon</b> |            |
| Size<br>Custom                                                                        | Project Name<br><b>K70IJ</b> |                       | Rev<br>1.0 |
| Date: Wednesday, April 29, 2009                                                       |                              | Sheet                 | 34 of 96   |

|   |   |   |   |   |
|---|---|---|---|---|
| 5 | 4 | 3 | 2 | 1 |
| D |   |   |   | D |
| C |   |   |   | C |
| B |   |   |   | B |
| A |   |   |   | A |

<Variant Name>



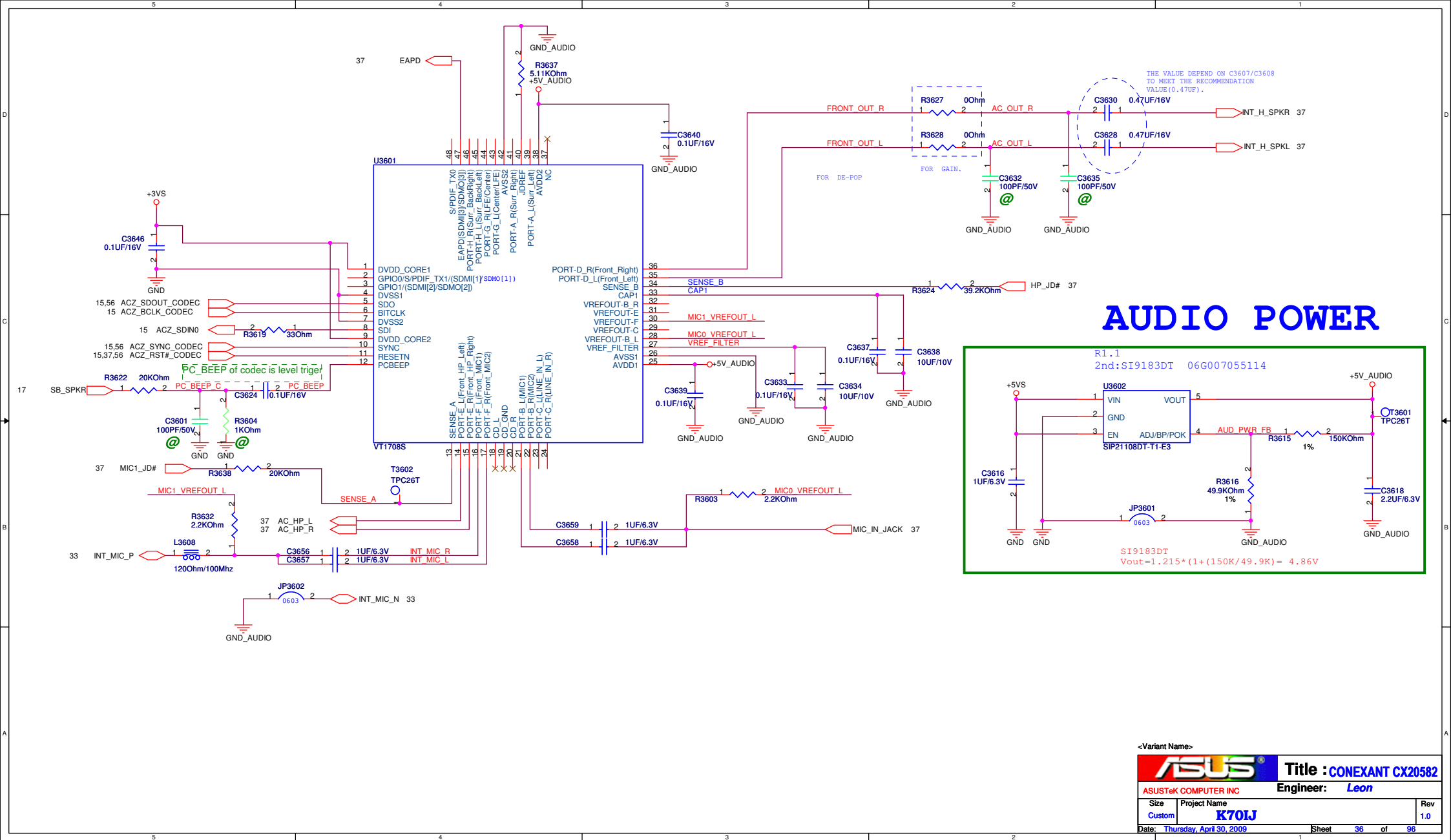
Title : **N/A**

ASUSTek COMPUTER INC

Engineer: **Leon**

|          |              |            |
|----------|--------------|------------|
| Size     | Project Name | Rev        |
| <b>A</b> | <b>K70IJ</b> | <b>1.0</b> |

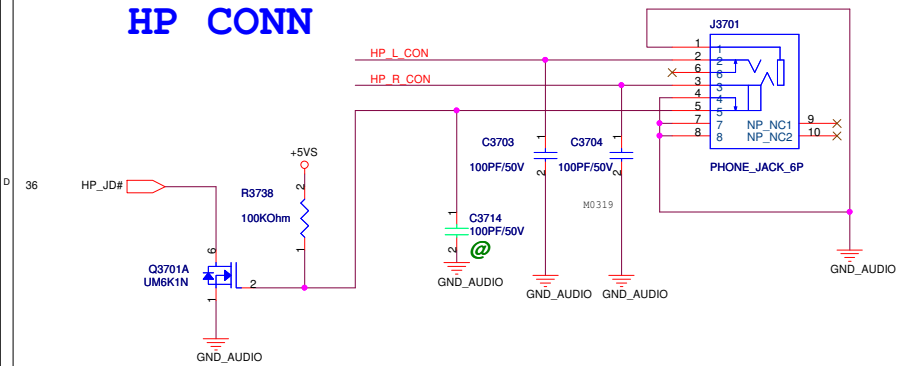
Date: **Wednesday, April 29, 2009**Sheet **35** of **96**



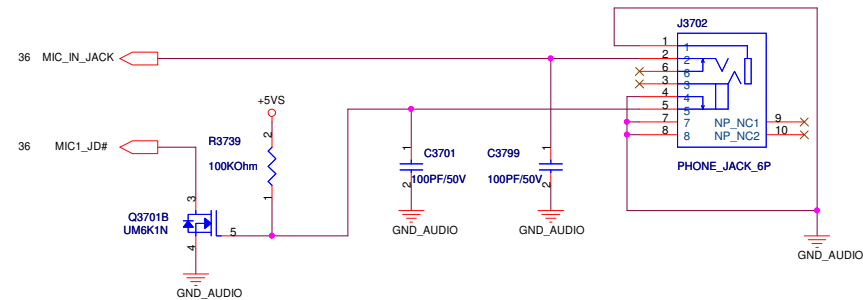
<Variant Name>

|                                |                              |                                 |            |
|--------------------------------|------------------------------|---------------------------------|------------|
| <b>ASUS</b>                    |                              | <b>Title : CONEXANT CX20582</b> |            |
| ASUSTeK COMPUTER INC           |                              | Engineer: <b>Leon</b>           |            |
| Size<br>Custom                 | Project Name<br><b>K70LJ</b> |                                 | Rev<br>1.0 |
| Date: Thursday, April 30, 2009 |                              | Sheet                           | 36 of 96   |

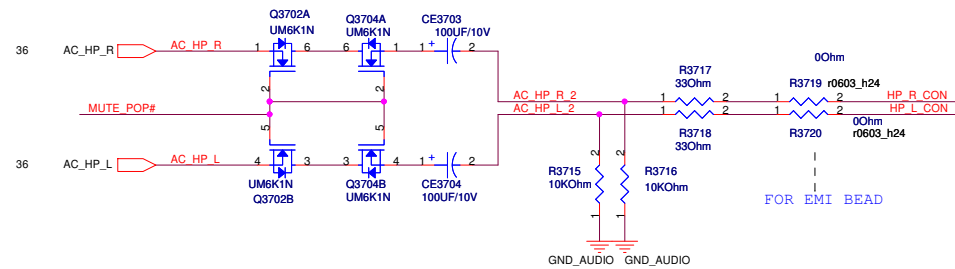
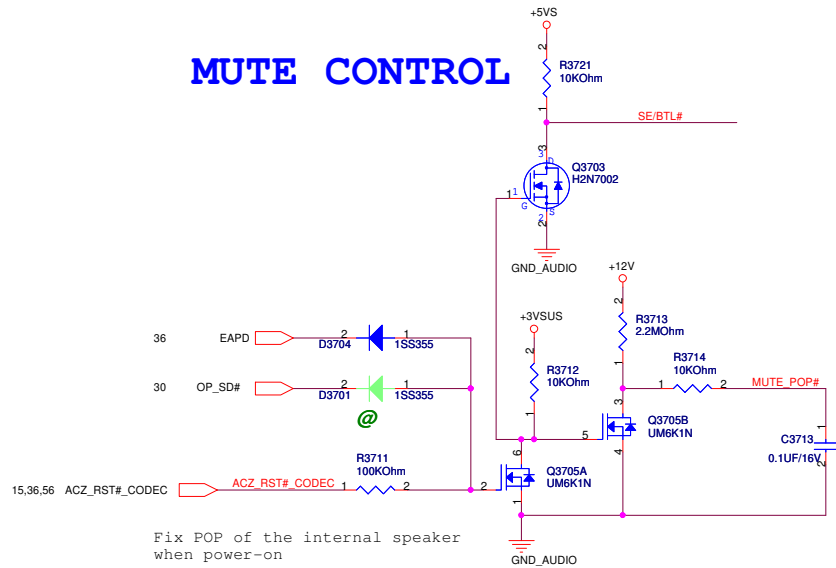
## HP CONN



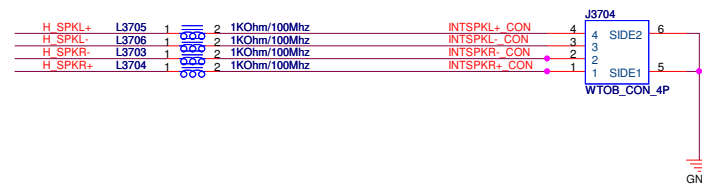
## External MIC CONN



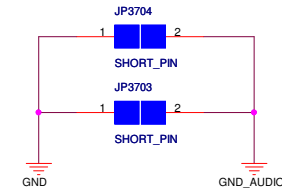
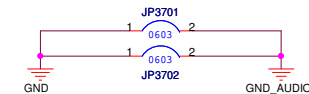
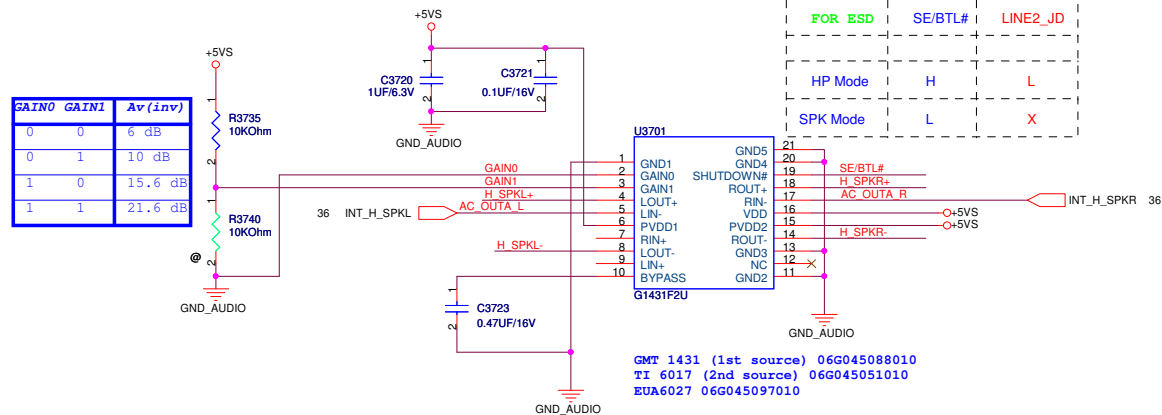
## MUTE CONTROL



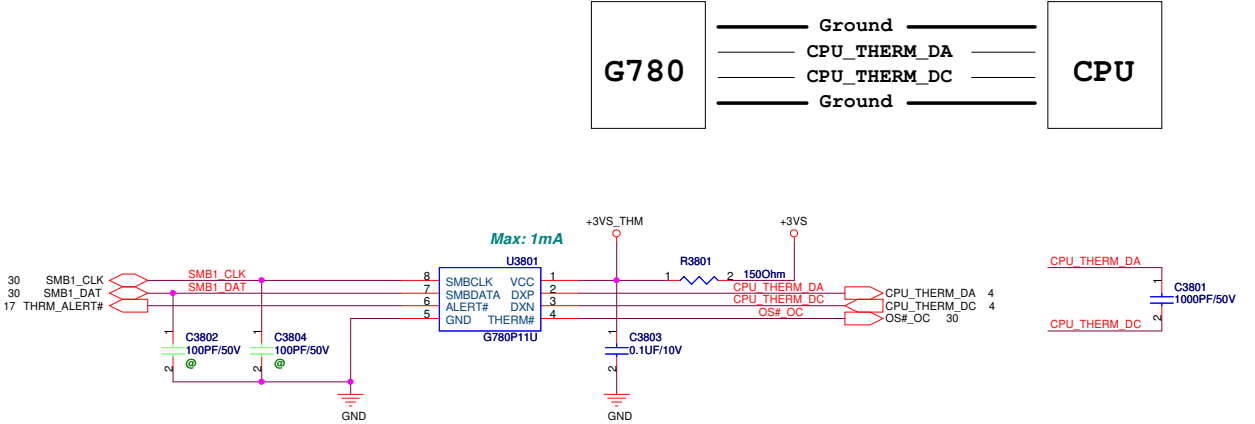
**SPEAKER CONNECTOR (2W)**



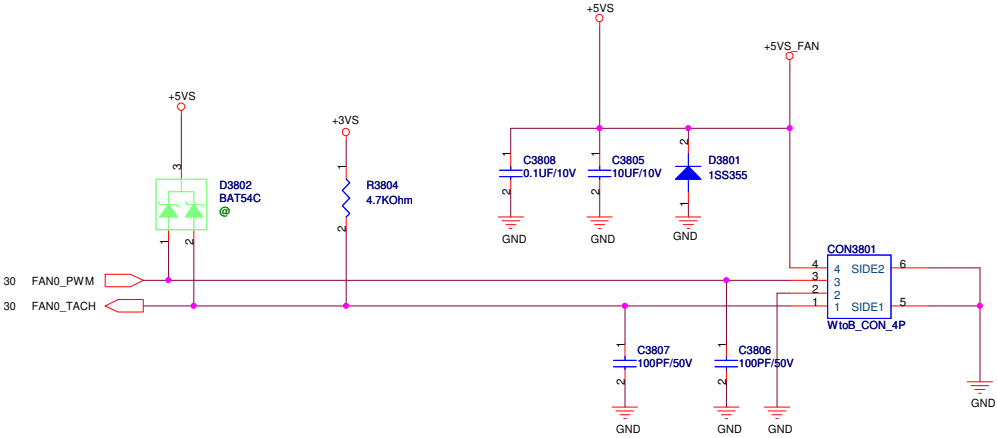
## SPEAKER AMP

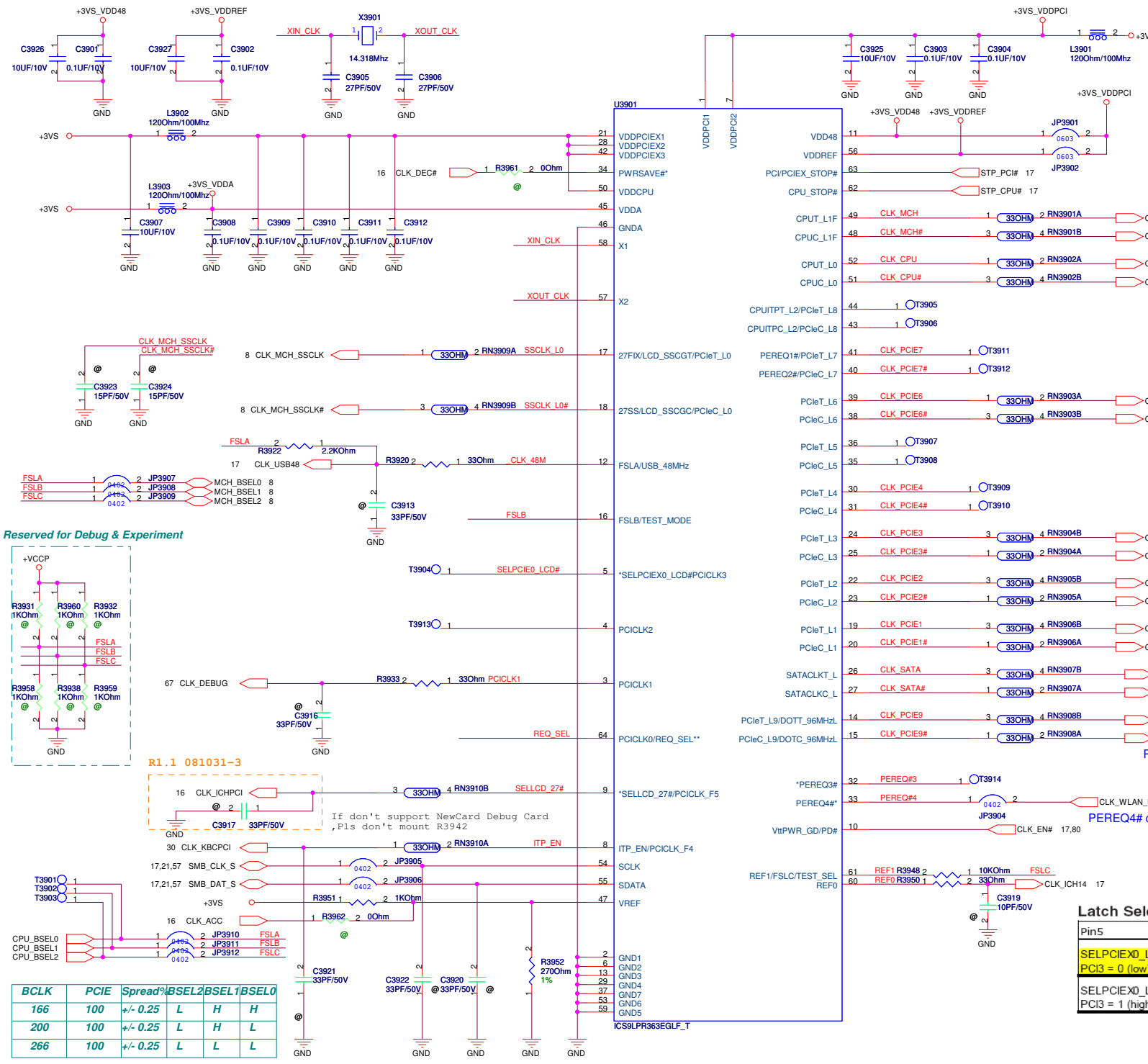


Thermal Sensor

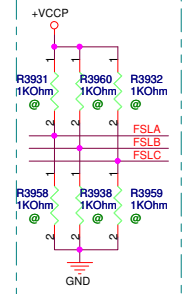


add 2nd source :06G023096010

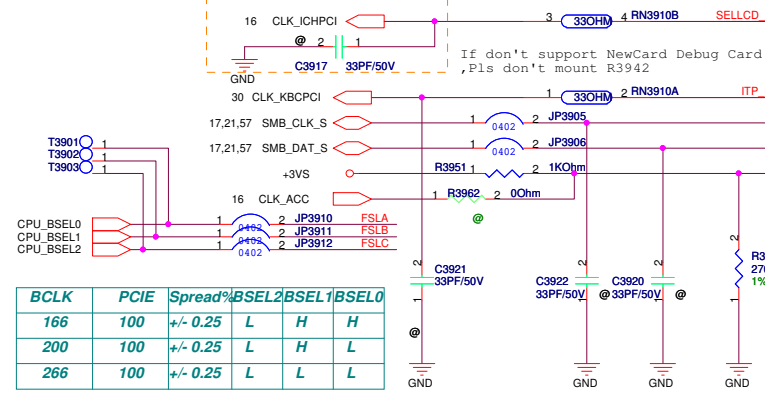




Reserved for Debug & Experiment



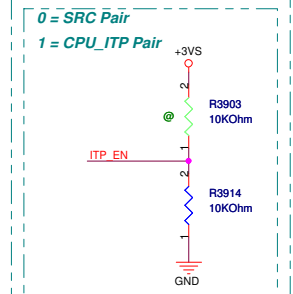
R1.1 081031-3



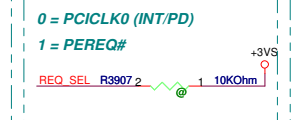
| BCLK | PCIE | Spread%  | BSEL2 | BSEL1 | BSEL0 |
|------|------|----------|-------|-------|-------|
| 166  | 100  | +/- 0.25 | L     | H     | H     |
| 200  | 100  | +/- 0.25 | L     | H     | L     |
| 266  | 100  | +/- 0.25 | L     | L     | L     |

Latched Input Select

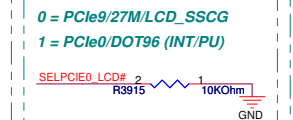
ITP\_EN/PCICLK\_F4



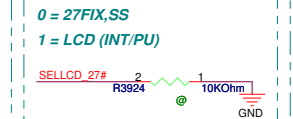
PCICLK0/REQ\_SEL



SELPCIE0\_LCD#PCICLK3



SELLCD\_27#/PCICLK\_F5



PEREQ3# control PCIE 2,4

Latch Select Table

| Pin5                             | Pin9                             | Pin14/15       | Pin17/18        |
|----------------------------------|----------------------------------|----------------|-----------------|
| SELPCIE0_LCD#/<br>PC3 = 0 (low)  | SELLCD_27# = 0<br>SELLCD_27# = 1 | PCIE9<br>DOT96 | 27FIX/SS<br>LCD |
| SELPCIE0_LCD#/<br>PC3 = 1 (high) | SELLCD_27# = 0<br>SELLCD_27# = 1 | PCIE9<br>DOT96 | PCIE0<br>PCIE0  |

<Variant Name>

**Title :CLOCK GEN4CS9LPR363**

ASUSTeK COMPUTER INC. NB1

Engineer: Leon

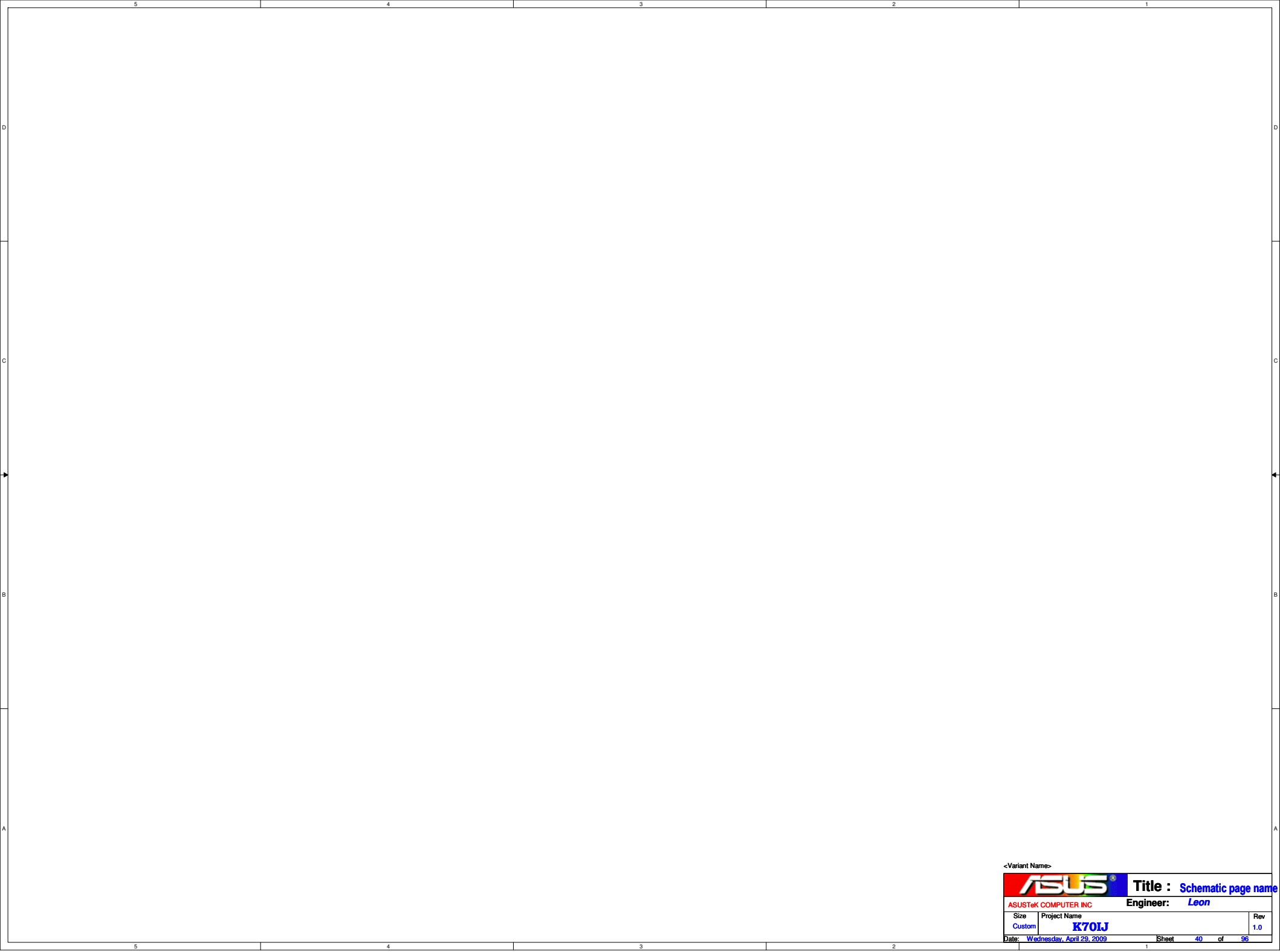
Size Custom

Project Name K70LJ

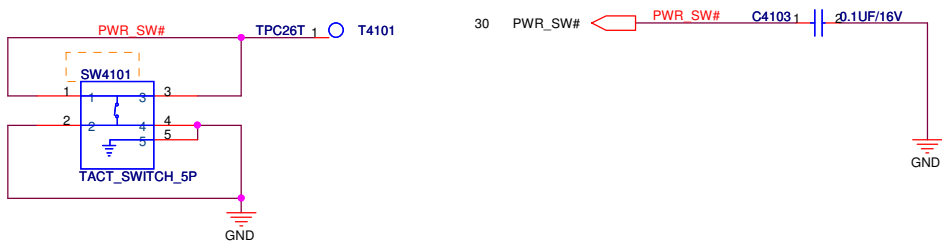
Date: Thursday, April 30, 2009

Sheet 39 of 96

Rev 1.0

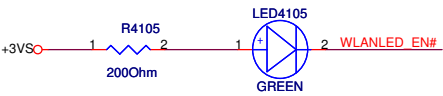


SWITCH BUTTON

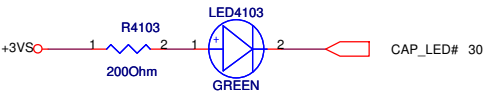


LED

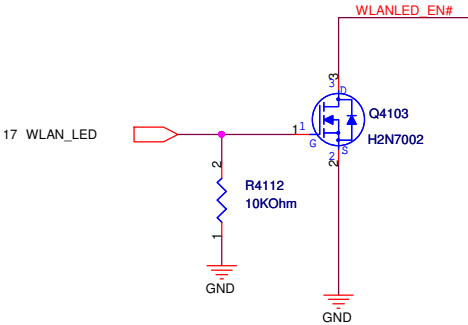
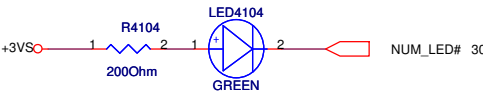
For WireLess LED



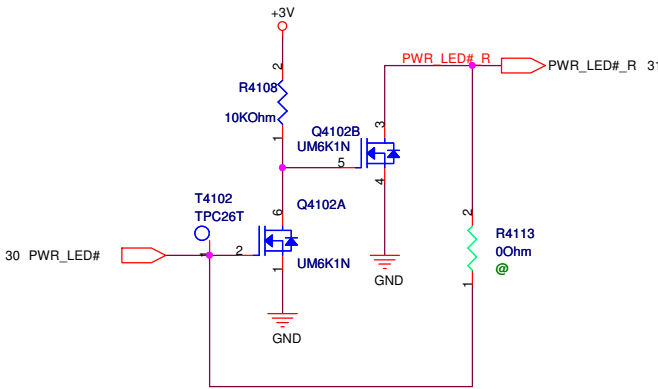
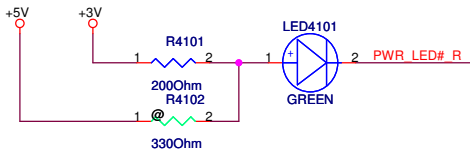
for Cap. Lock



for Num Lock

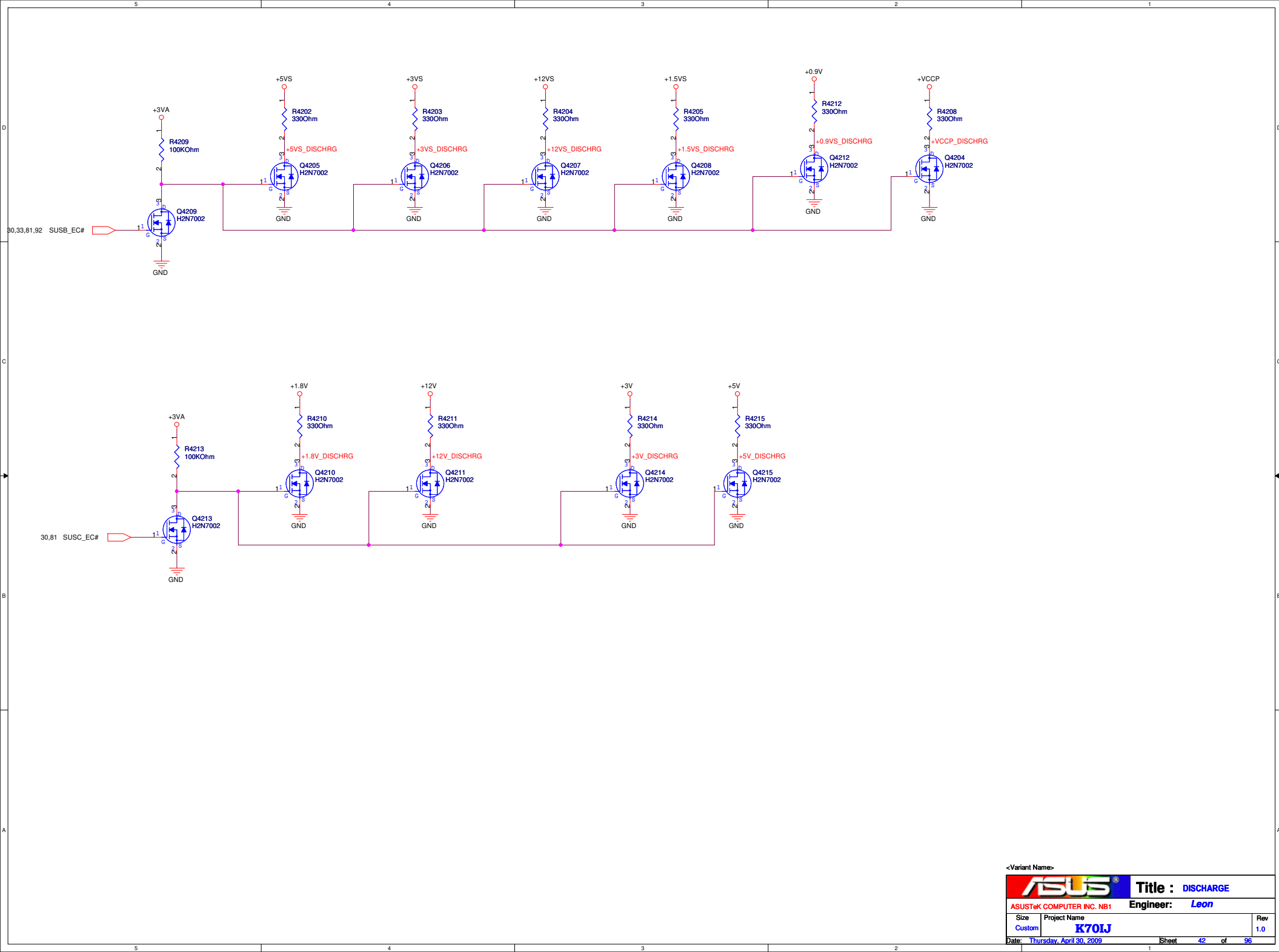


For POWER LED



<Variant Name>

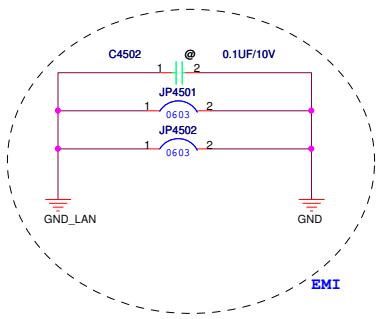
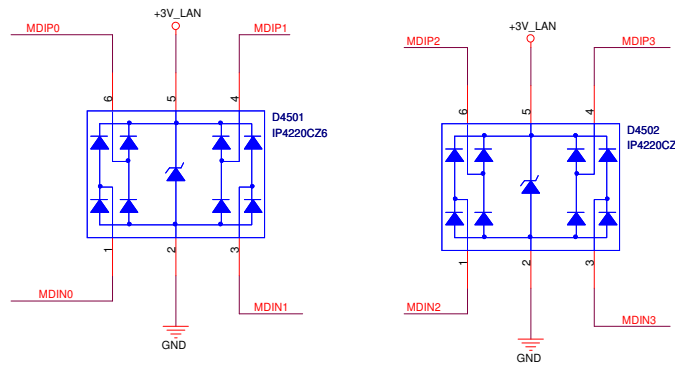
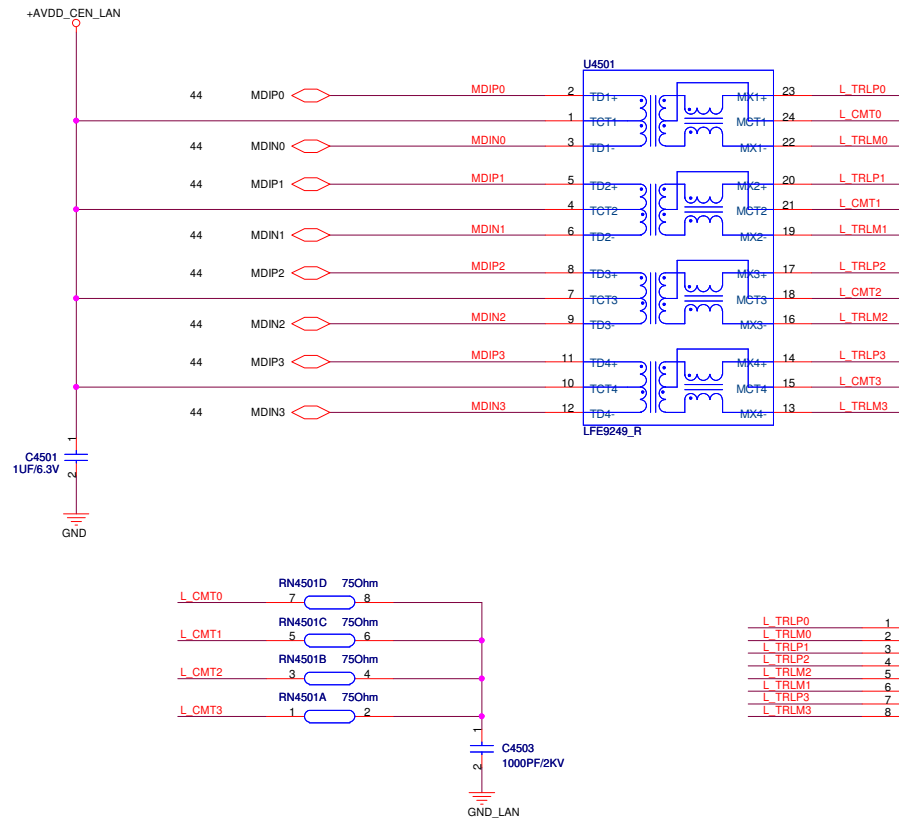
|                                       |                              |                                       |            |
|---------------------------------------|------------------------------|---------------------------------------|------------|
| <b>ASUS</b>                           |                              | <b>Title :Switch Button &amp; LED</b> |            |
| ASUSTeK COMPUTER INC                  |                              | Engineer: <b>Leon</b>                 |            |
| Size<br>B                             | Project Name<br><b>K70IJ</b> |                                       | Rev<br>1.0 |
| Date: <b>Thursday, April 30, 2009</b> |                              | Sheet <b>41</b> of <b>96</b>          |            |

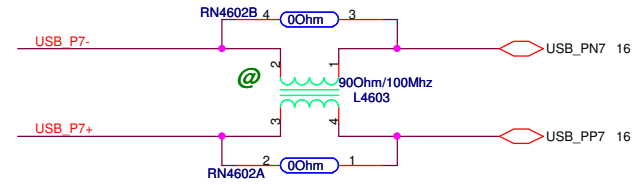
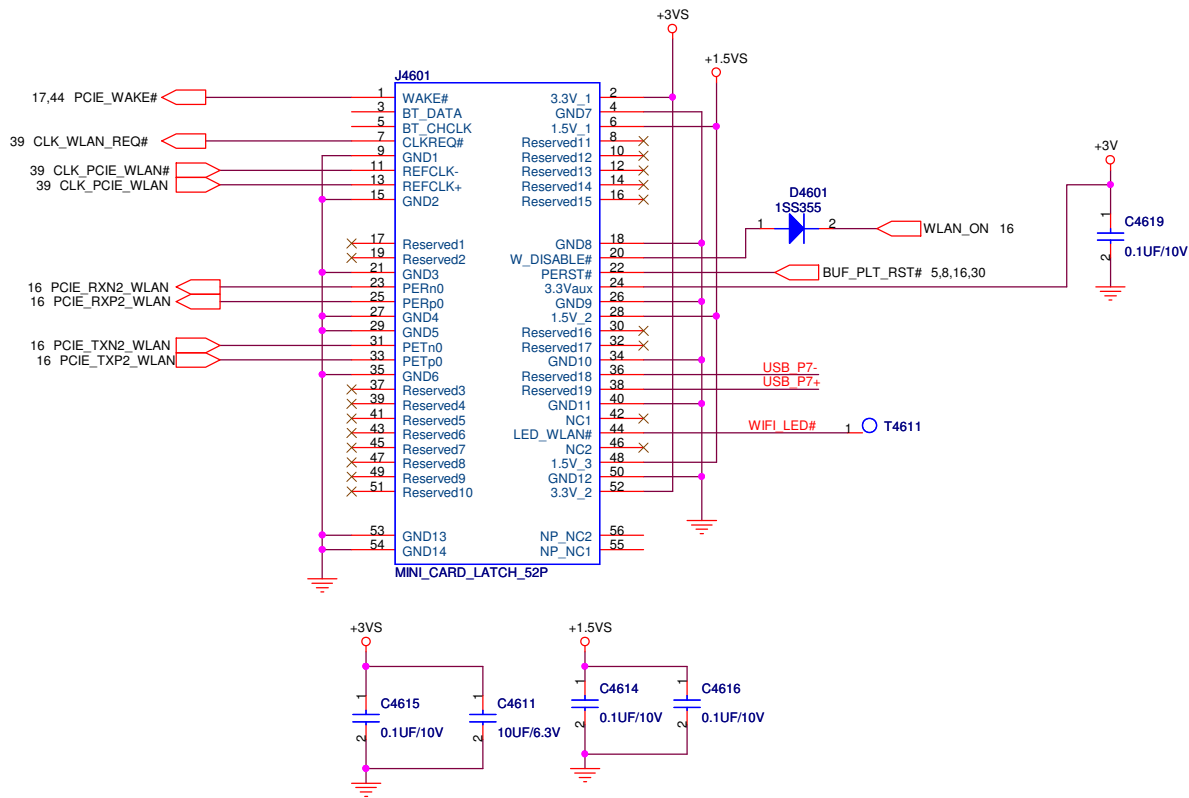


|   |   |   |   |   |   |
|---|---|---|---|---|---|
|   | 5 | 4 | 3 | 2 | 1 |
| D |   |   |   |   |   |
| C |   |   |   |   |   |
| B |   |   |   |   |   |
| A |   |   |   |   |   |
|   | 5 | 4 | 3 | 2 | 1 |



LAN CONN.

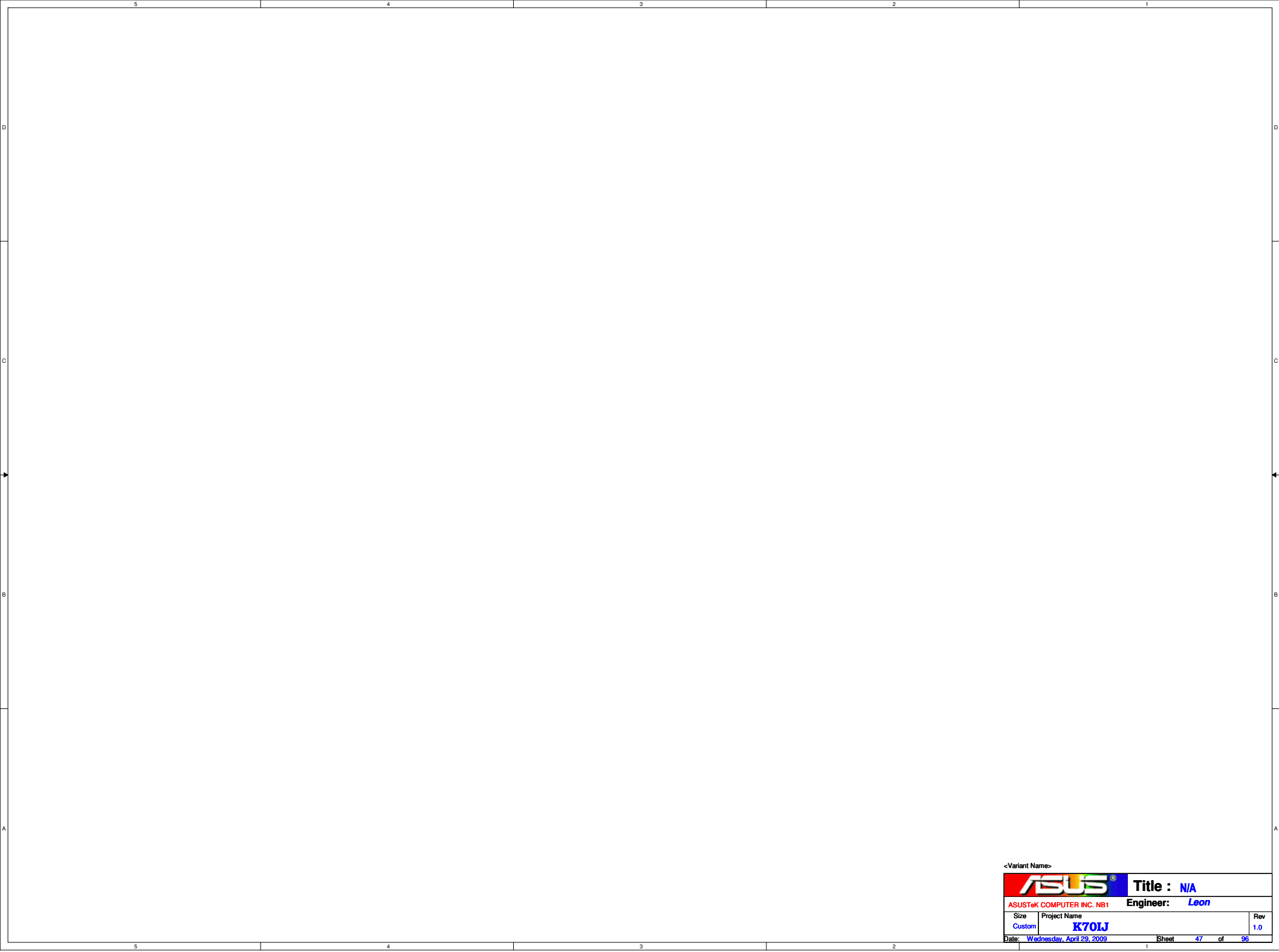




WLAN H=7.5mm

<Variant Name>

|                                |                              |                                 |            |
|--------------------------------|------------------------------|---------------------------------|------------|
| <b>ASUS</b>                    |                              | <b>Title :Mini card_WLAN+3G</b> |            |
| ASUSTeK COMPUTER INC. NB1      |                              | Engineer: <b>Leon</b>           |            |
| Size<br>Custom                 | Project Name<br><b>K701J</b> |                                 | Rev<br>1.0 |
| Date: Thursday, April 30, 2009 |                              | Sheet 46 of 96                  |            |



<Variant Name>



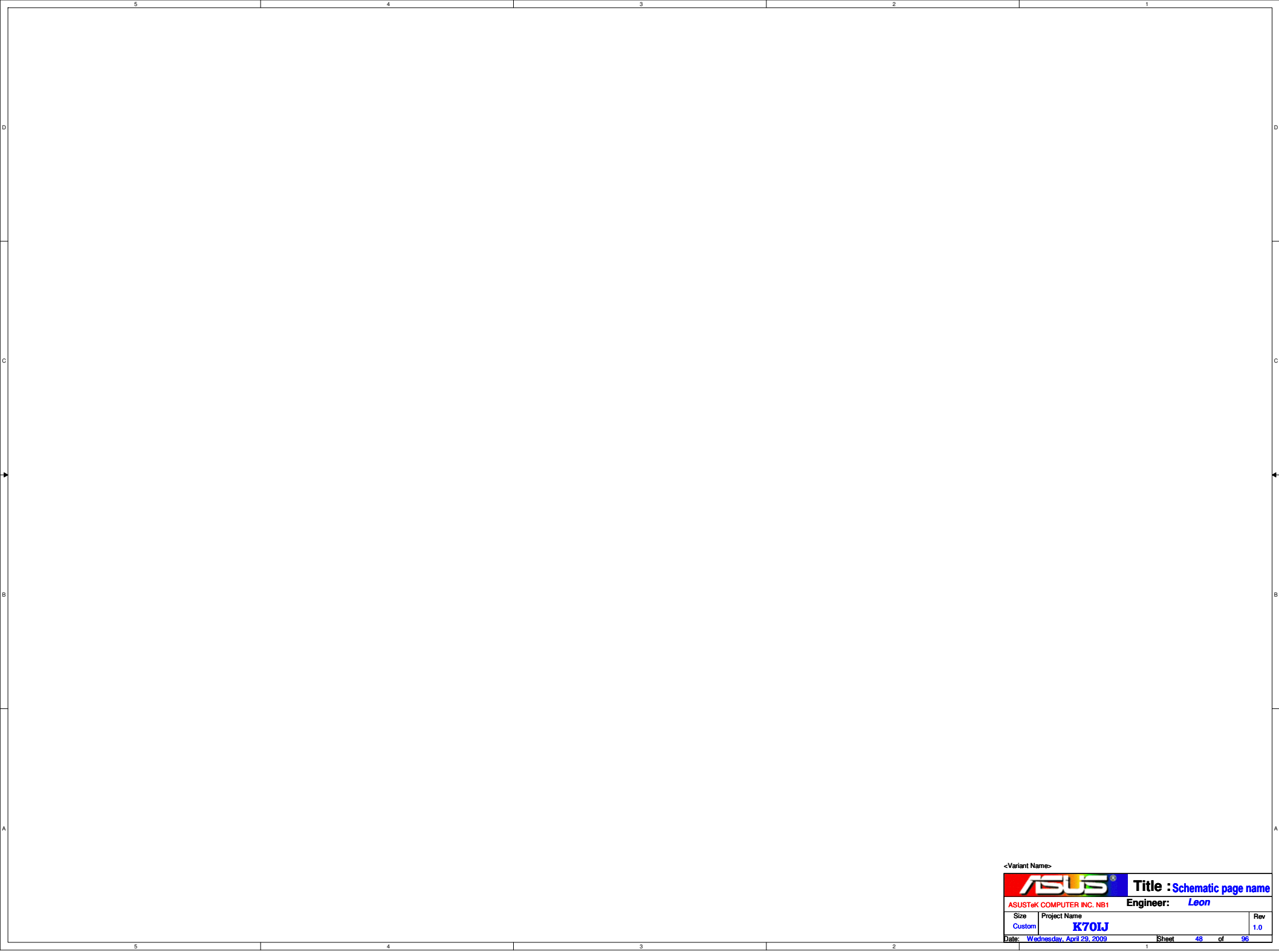
Title : **N/A**

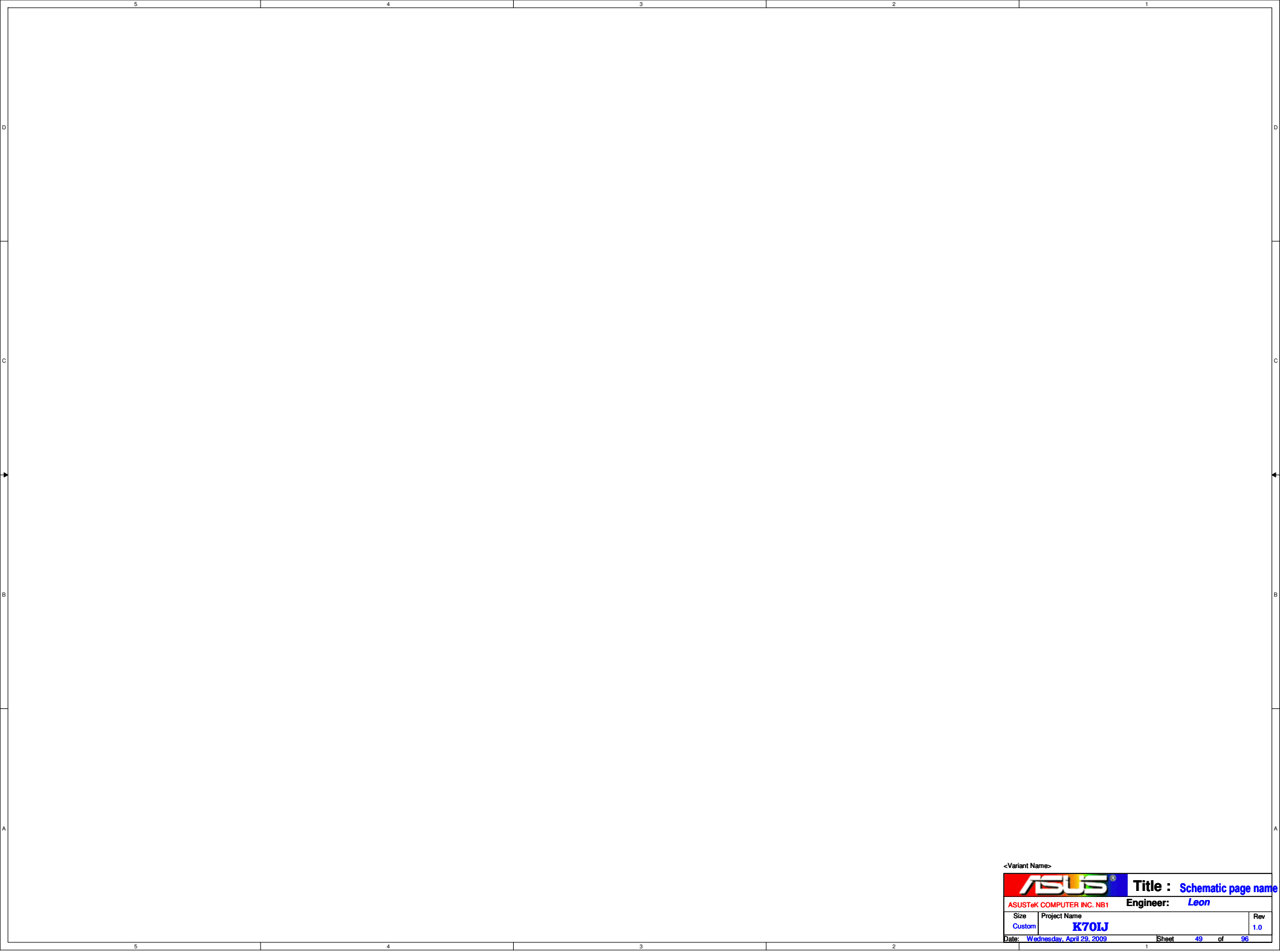
ASUSTeK COMPUTER INC. NB1

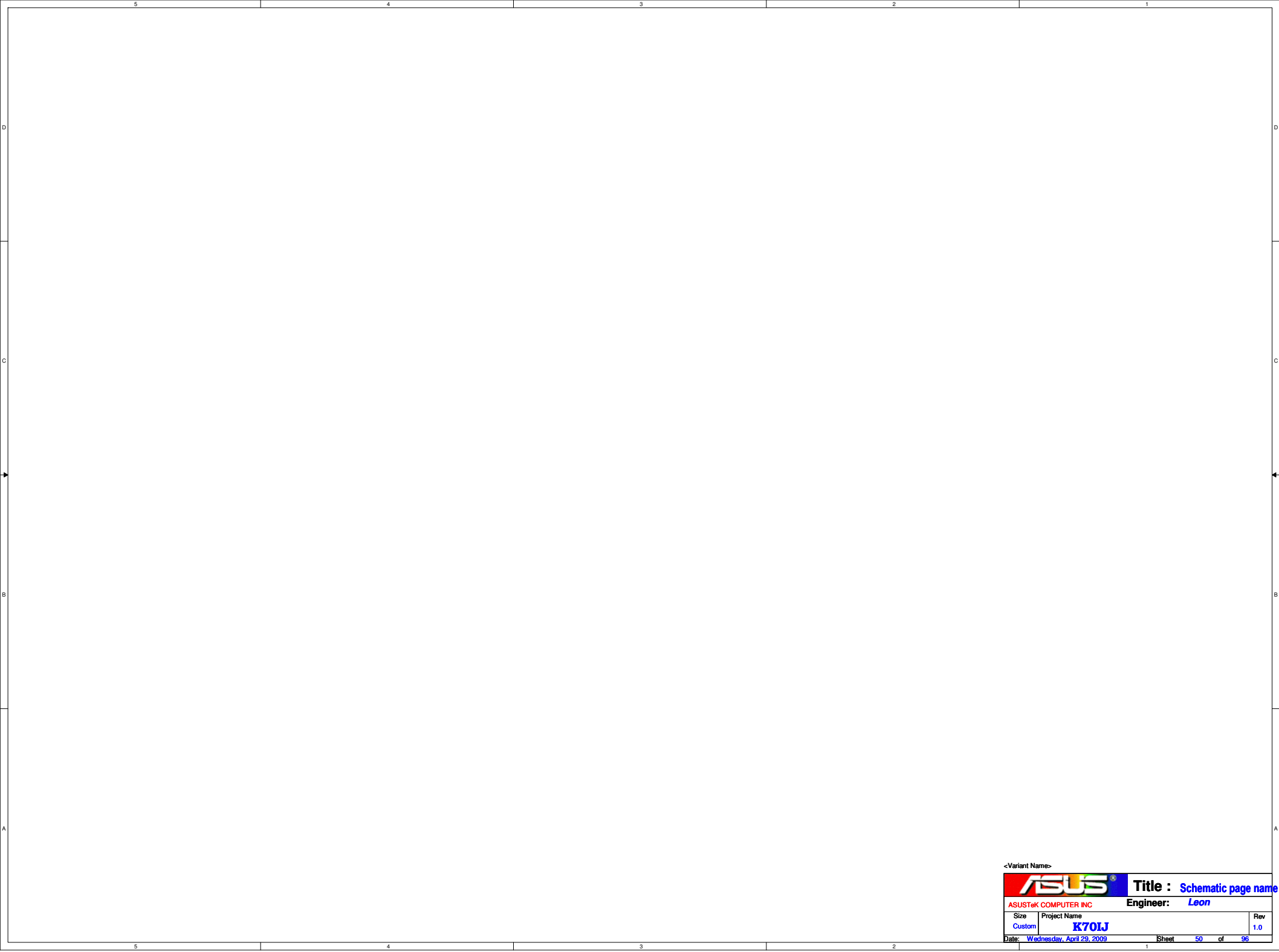
Engineer: **Leon**

|        |              |     |
|--------|--------------|-----|
| Size   | Project Name | Rev |
| Custom | <b>K70IJ</b> | 1.0 |

Date: **Wednesday, April 29, 2009** Sheet **47** of **96**







<Variant Name>



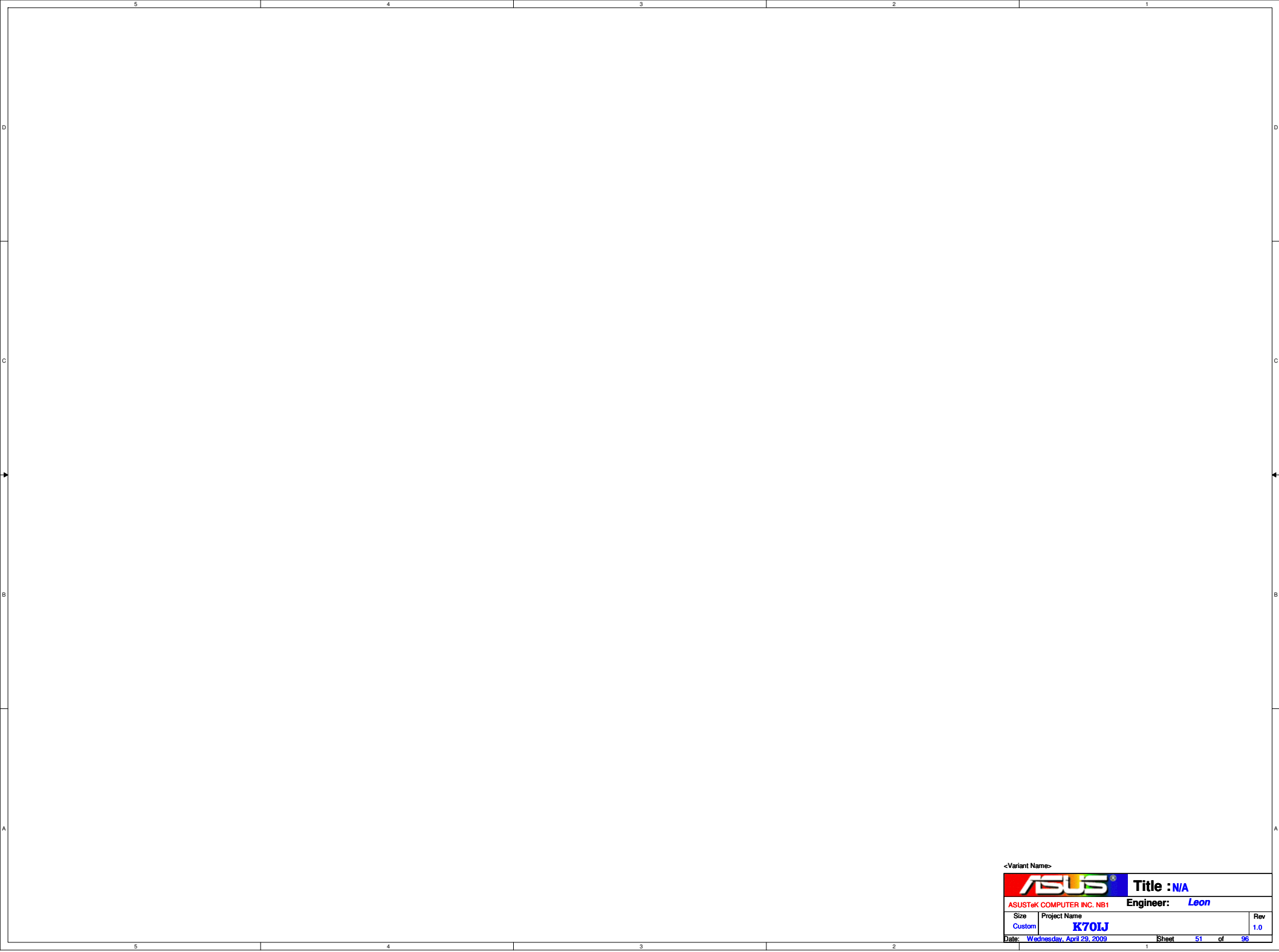
Title : Schematic page name

ASUSTeK COMPUTER INC

Engineer: Leon

|        |              |     |
|--------|--------------|-----|
| Size   | Project Name | Rev |
| Custom | K70IJ        | 1.0 |

Date: Wednesday, April 29, 2009Sheet 50 of 96



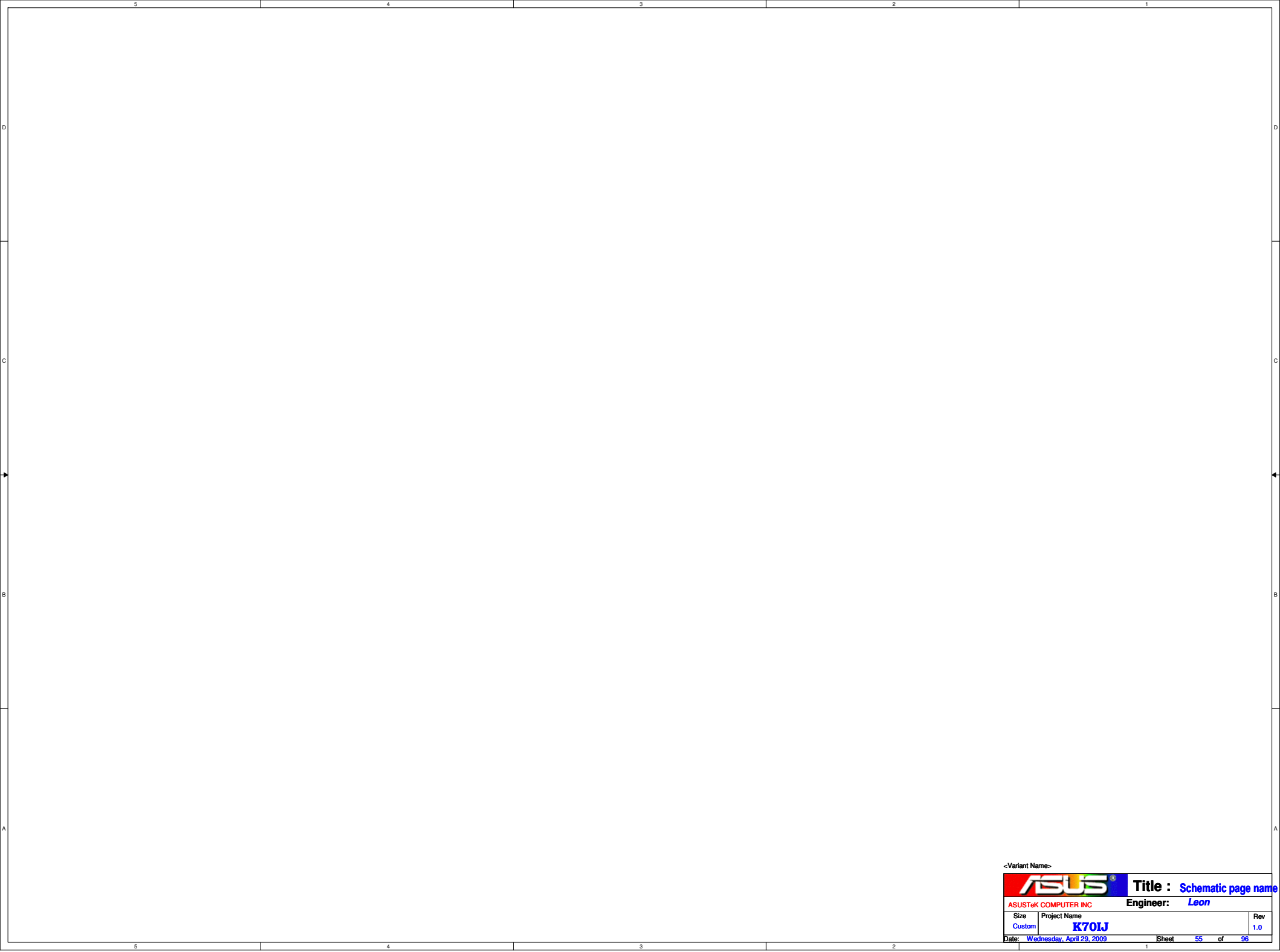
|                                                                                       |                              |                              |            |
|---------------------------------------------------------------------------------------|------------------------------|------------------------------|------------|
| <Variant Name>                                                                        |                              |                              |            |
|  |                              | Title : <b>N/A</b>           |            |
| ASUSTeK COMPUTER INC. NB1                                                             |                              | Engineer: <b>Leon</b>        |            |
| Size<br>Custom                                                                        | Project Name<br><b>K70IJ</b> |                              | Rev<br>1.0 |
| Date: <b>Wednesday, April 29, 2009</b>                                                |                              | Sheet <b>51</b> of <b>96</b> |            |

|   |   |   |   |   |   |
|---|---|---|---|---|---|
|   | 5 | 4 | 3 | 2 | 1 |
| D |   |   |   |   |   |
| C |   |   |   |   |   |
| B |   |   |   |   |   |
| A |   |   |   |   |   |
|   | 5 | 4 | 3 | 2 | 1 |

|                                                                                       |                       |                |            |
|---------------------------------------------------------------------------------------|-----------------------|----------------|------------|
| <Variant Name>                                                                        |                       |                |            |
|  |                       | Title : N/A    |            |
| ASUSTeK COMPUTER INC. NB1                                                             |                       | Engineer: Leon |            |
| Size<br>Custom                                                                        | Project Name<br>K70IJ |                | Rev<br>1.0 |
| Date: Wednesday, April 29, 2009                                                       |                       | Sheet 52 of 96 |            |



|   |  |  |  |  |   |  |  |  |  |   |  |  |  |  |   |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |   |  |  |  |  |
|---|--|--|--|--|---|--|--|--|--|---|--|--|--|--|---|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---|--|--|--|--|
| 5 |  |  |  |  | 4 |  |  |  |  | 3 |  |  |  |  | 2 |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | 1 |  |  |  |  |
| D |  |  |  |  |   |  |  |  |  |   |  |  |  |  |   |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |   |  |  |  |  |
| C |  |  |  |  |   |  |  |  |  |   |  |  |  |  |   |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |   |  |  |  |  |
| B |  |  |  |  |   |  |  |  |  |   |  |  |  |  |   |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |   |  |  |  |  |
| A |  |  |  |  |   |  |  |  |  |   |  |  |  |  |   |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |   |  |  |  |  |
|   |  |  |  |  |   |  |  |  |  |   |  |  |  |  |   |  |  | <div>&lt;Variant Name&gt;</div> <div><div><div><div><div><div></div><div>ASUS</div><div></div></div><div>ASUSTeK COMPUTER INC. NB1</div></div><div><div><div><div>Size</div><div>B</div></div><div><div>Project Name</div><div>K70IJ</div></div><div><div>Rev</div><div>1.0</div></div></div></div><div><div><div>Title :</div><div>NEWCARD</div></div><div><div>Engineer:</div><div>Leon</div></div></div><div><div>Date: Wednesday, April 29, 2009</div><div>Sheet 54 of 96</div></div></div></div></div> |  |   |  |  |  |  |
| 5 |  |  |  |  | 4 |  |  |  |  | 3 |  |  |  |  | 2 |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | 1 |  |  |  |  |



<Variant Name>



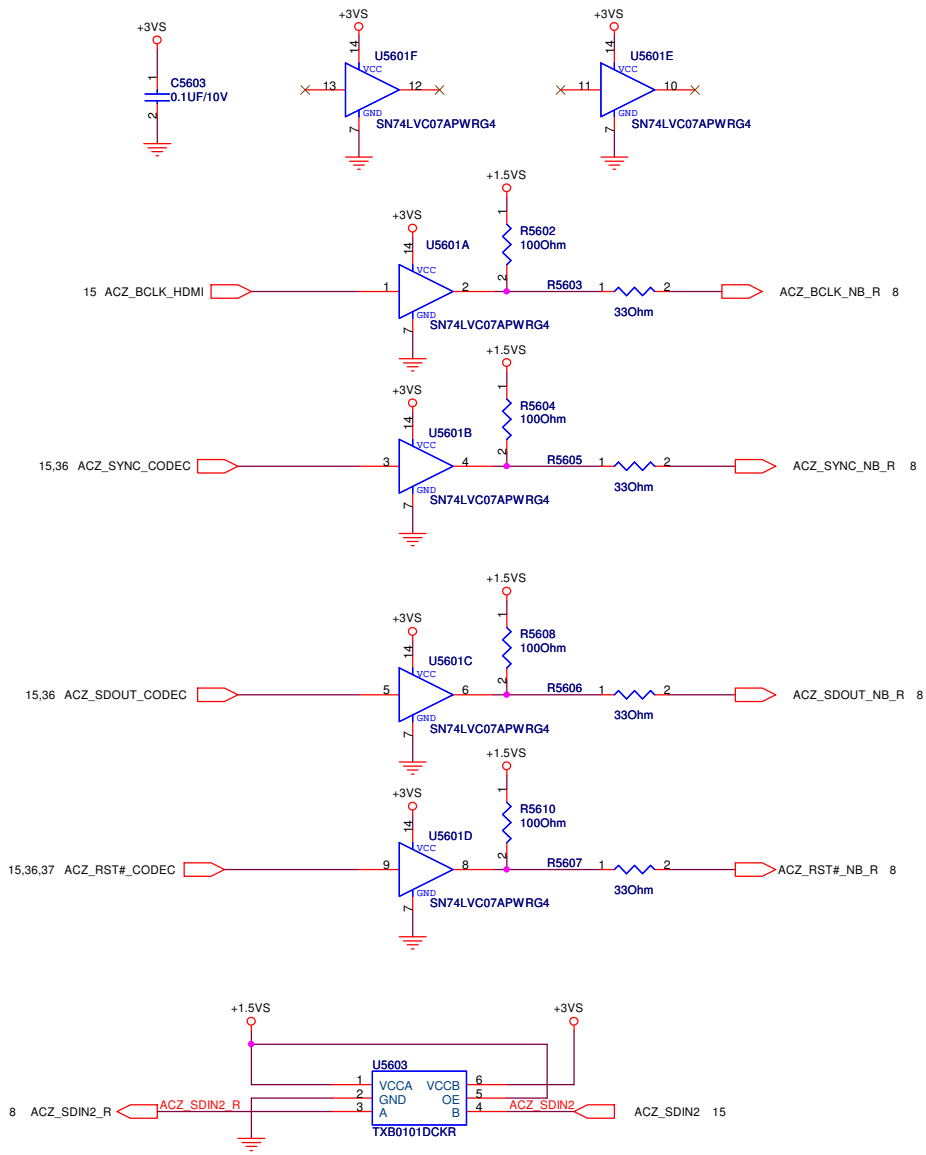
Title : Schematic page name

ASUSTeK COMPUTER INC

Engineer: Leon

|        |              |     |
|--------|--------------|-----|
| Size   | Project Name | Rev |
| Custom | K70IJ        | 1.0 |

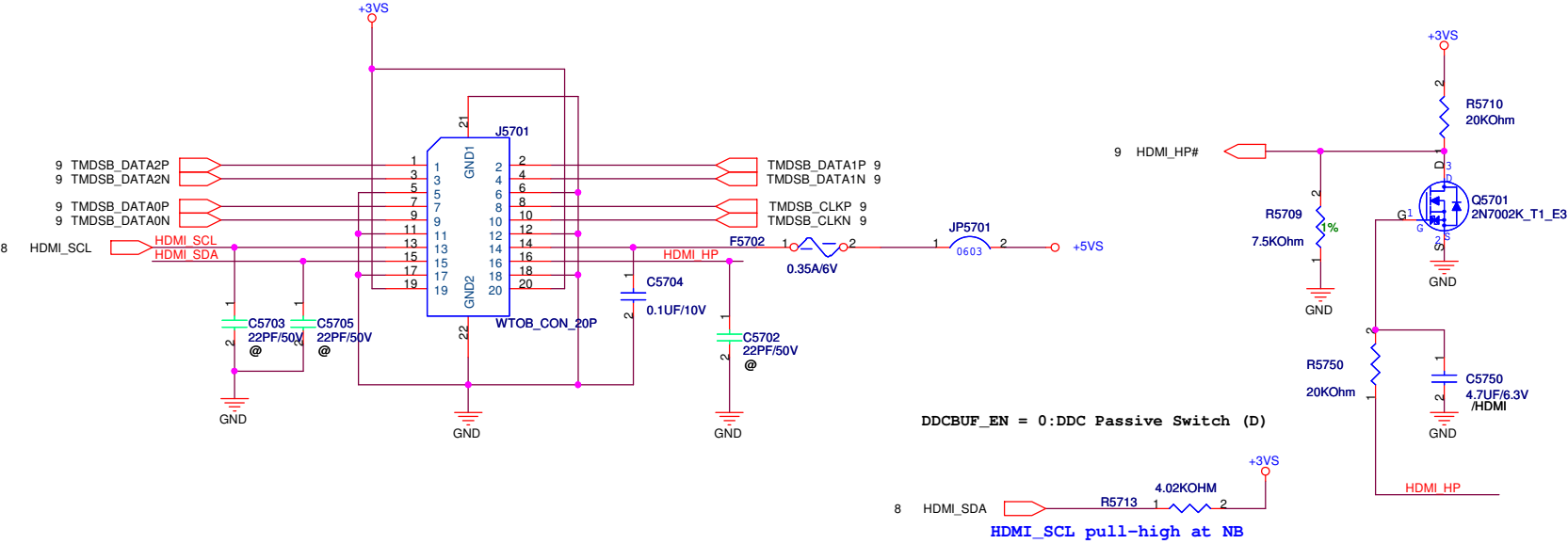
Date: Wednesday, April 29, 2009Sheet 55 of 96



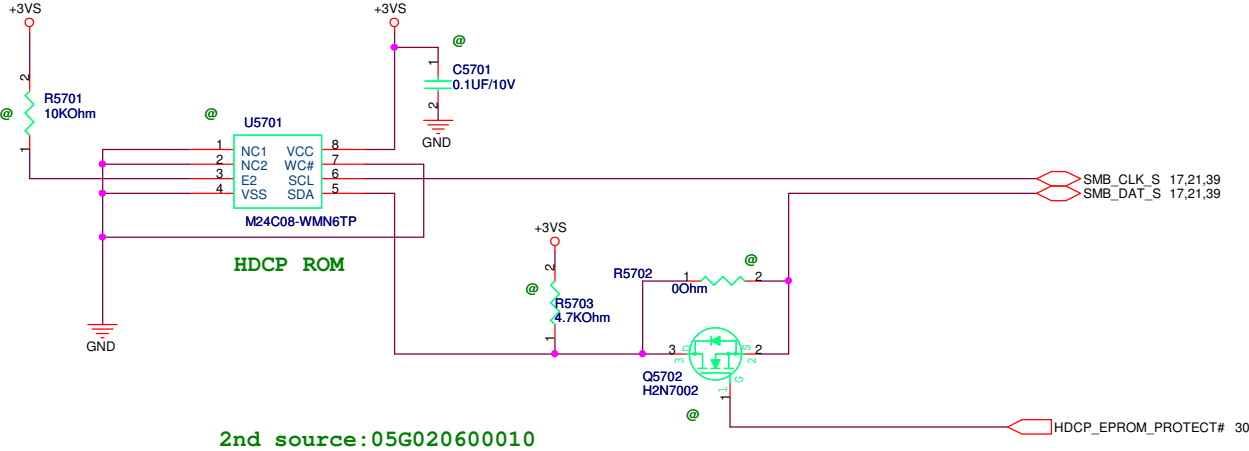
<Variant Name>

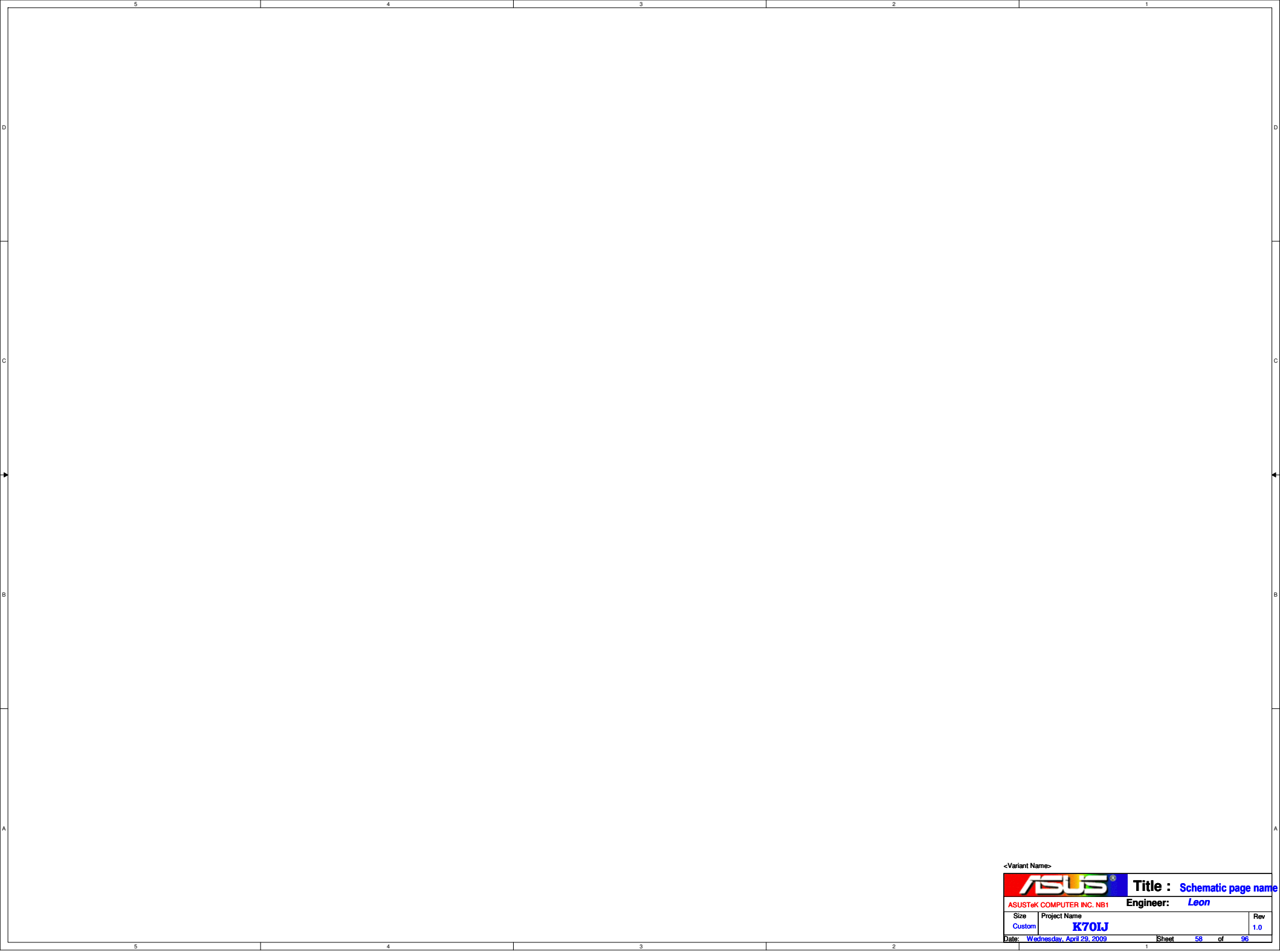
|                                |                              |                                  |            |
|--------------------------------|------------------------------|----------------------------------|------------|
| <b>ASUS</b>                    |                              | <b>Title : HDA level shifter</b> |            |
| ASUSTeK COMPUTER INC. NB1      |                              | Engineer: <b>Leon</b>            |            |
| Size<br>Custom                 | Project Name<br><b>K70LJ</b> |                                  | Rev<br>1.0 |
| Date: Thursday, April 30, 2009 |                              | Sheet 56 of 96                   |            |

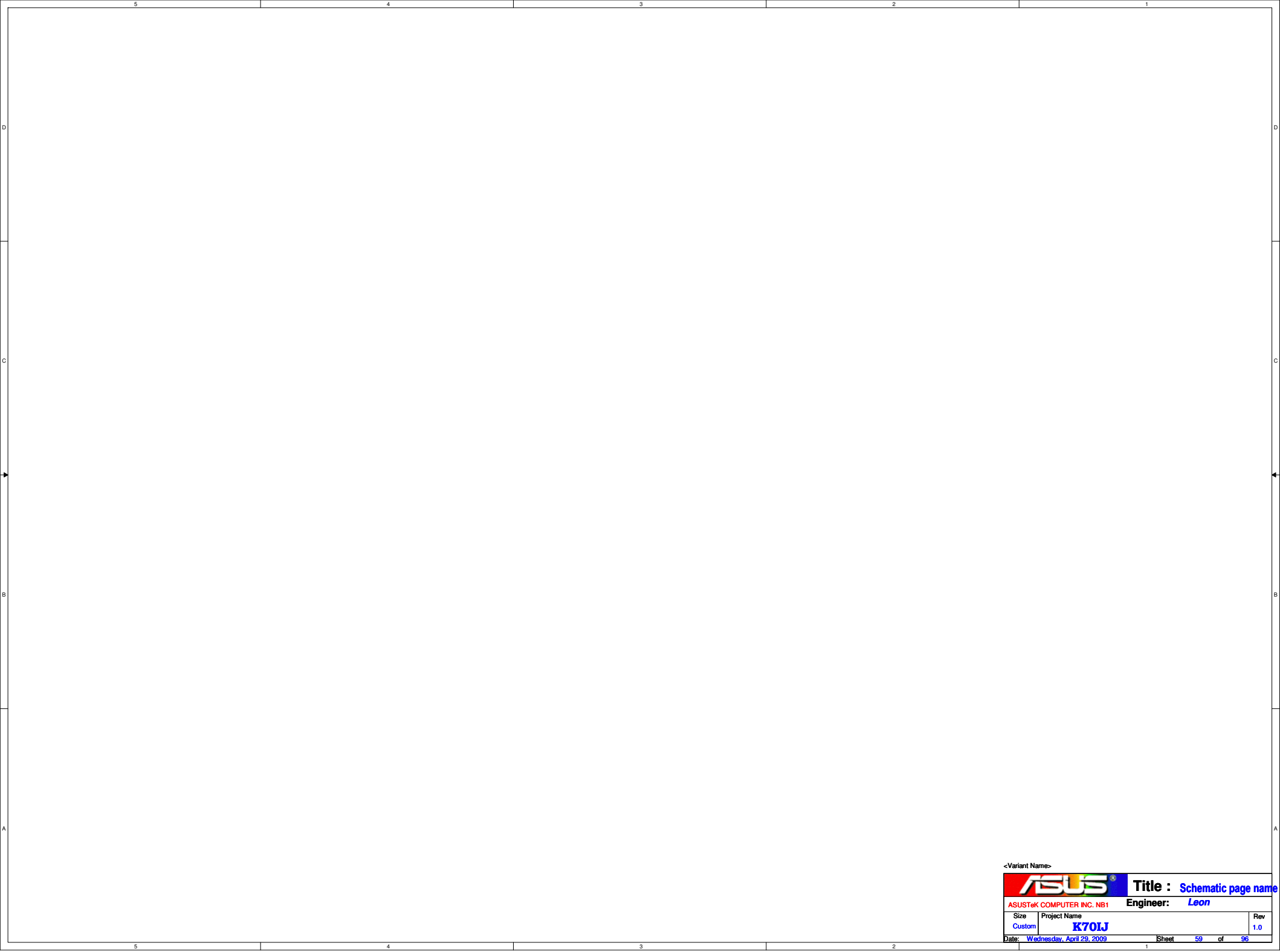
HDMI WtoB Connector



HDCP ROM







<Variant Name>



Title : Schematic page name

ASUSTeK COMPUTER INC. NB1

Engineer: Leon

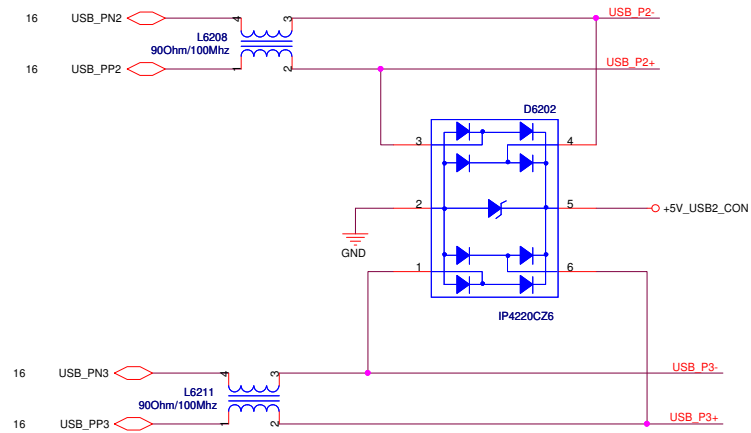
|        |              |     |
|--------|--------------|-----|
| Size   | Project Name | Rev |
| Custom | K70IJ        | 1.0 |

Date: Wednesday, April 29, 2009Sheet 59 of 96

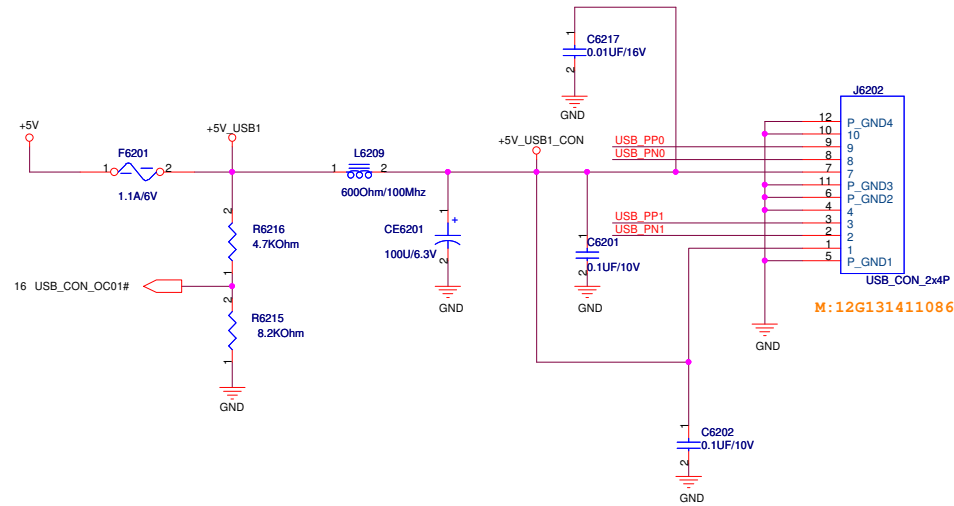
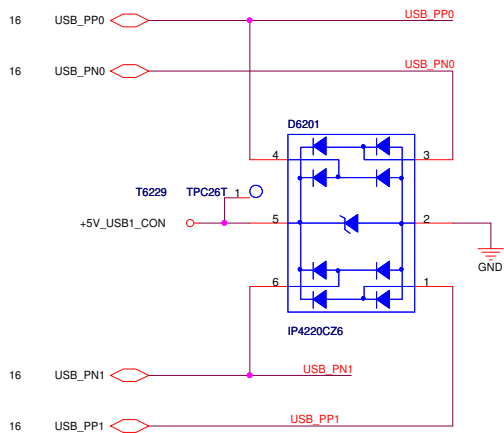
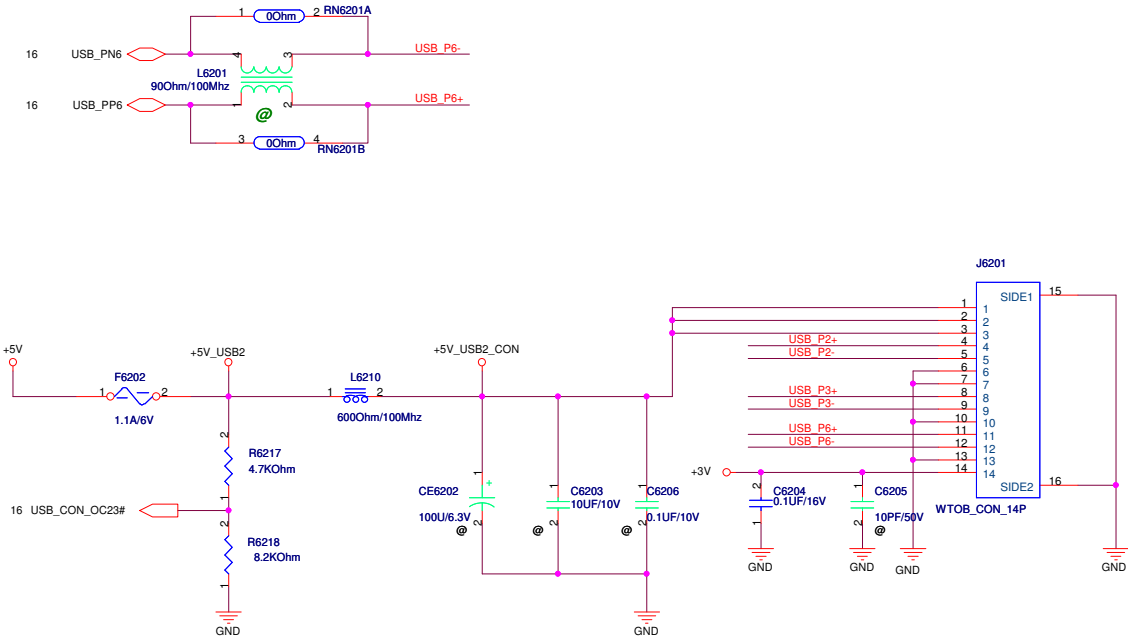


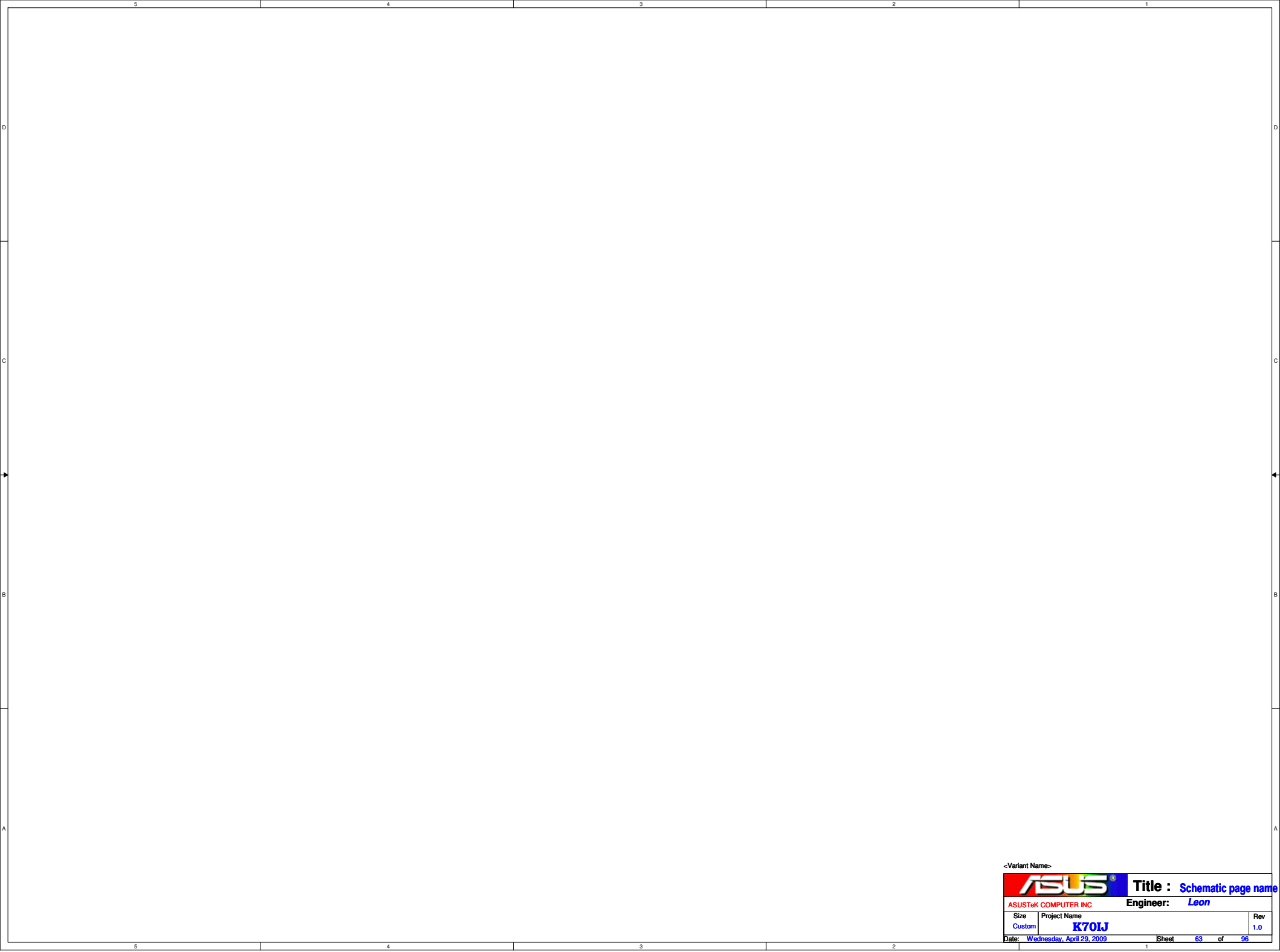
|                                                                                                                                                                                                                                                                                                                                                            |   |   |   |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|
| 5                                                                                                                                                                                                                                                                                                                                                          | 4 | 3 | 2 | 1 |
| D                                                                                                                                                                                                                                                                                                                                                          |   |   |   | D |
| C                                                                                                                                                                                                                                                                                                                                                          |   |   |   | C |
| B                                                                                                                                                                                                                                                                                                                                                          |   |   |   | B |
| A                                                                                                                                                                                                                                                                                                                                                          |   |   |   | A |
| <div>&lt;Variant Name&gt;</div> <div><div><div>ASUS®</div><div>ASUSTeK COMPUTER INC</div><div>Size<br/>Custom</div></div><div><div>Project Name<br/>K70IJ</div><div>Date: Wednesday, April 29, 2009</div></div><div><div>Title : Schematic page name</div><div>Engineer: Leon</div><div>Rev<br/>1.0</div></div></div> <div><div>Sheet 61 of 96</div></div> |   |   |   |   |

USB IO Board



USB Cardreader





<Variant Name>



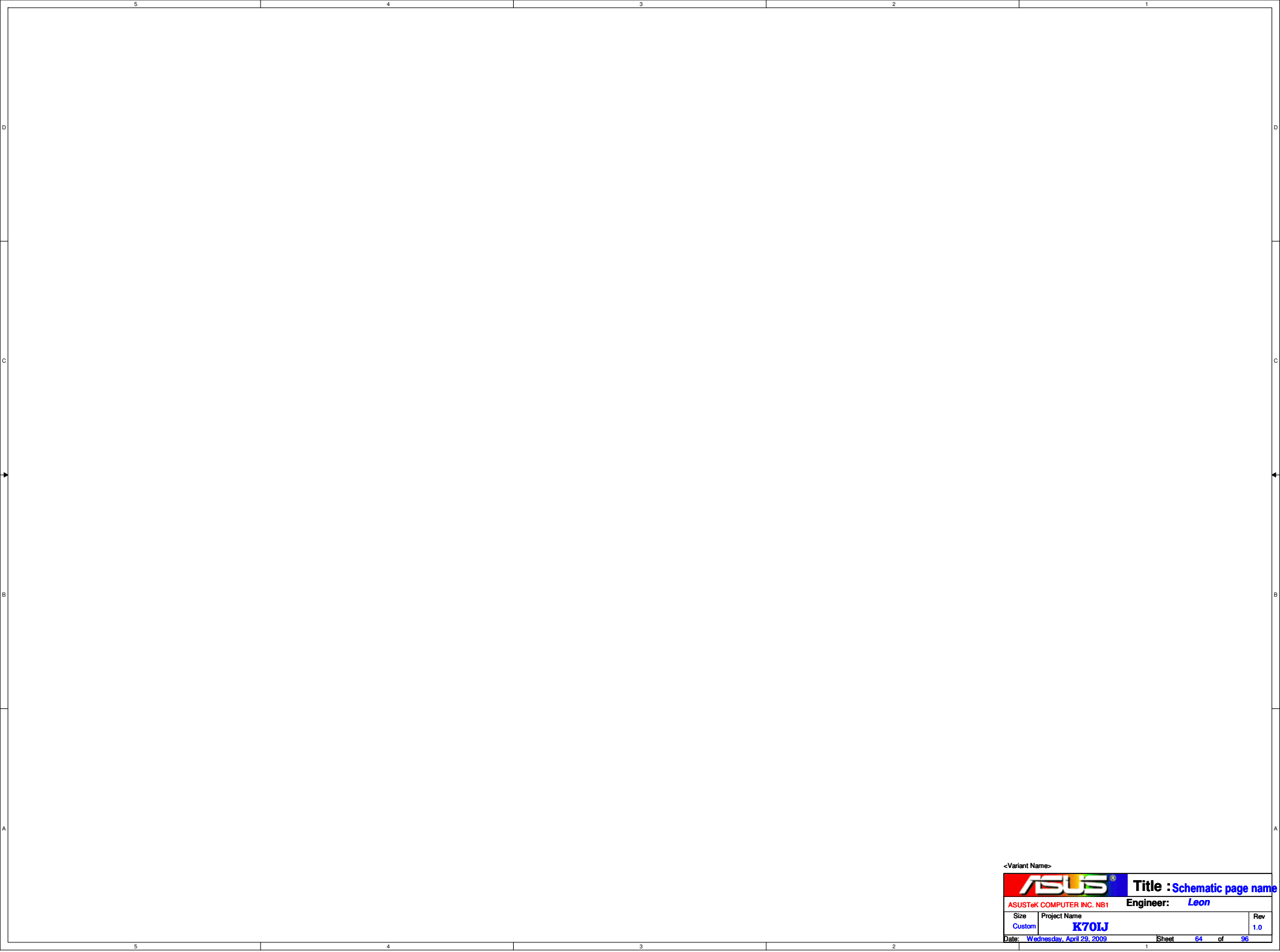
Title : Schematic page name

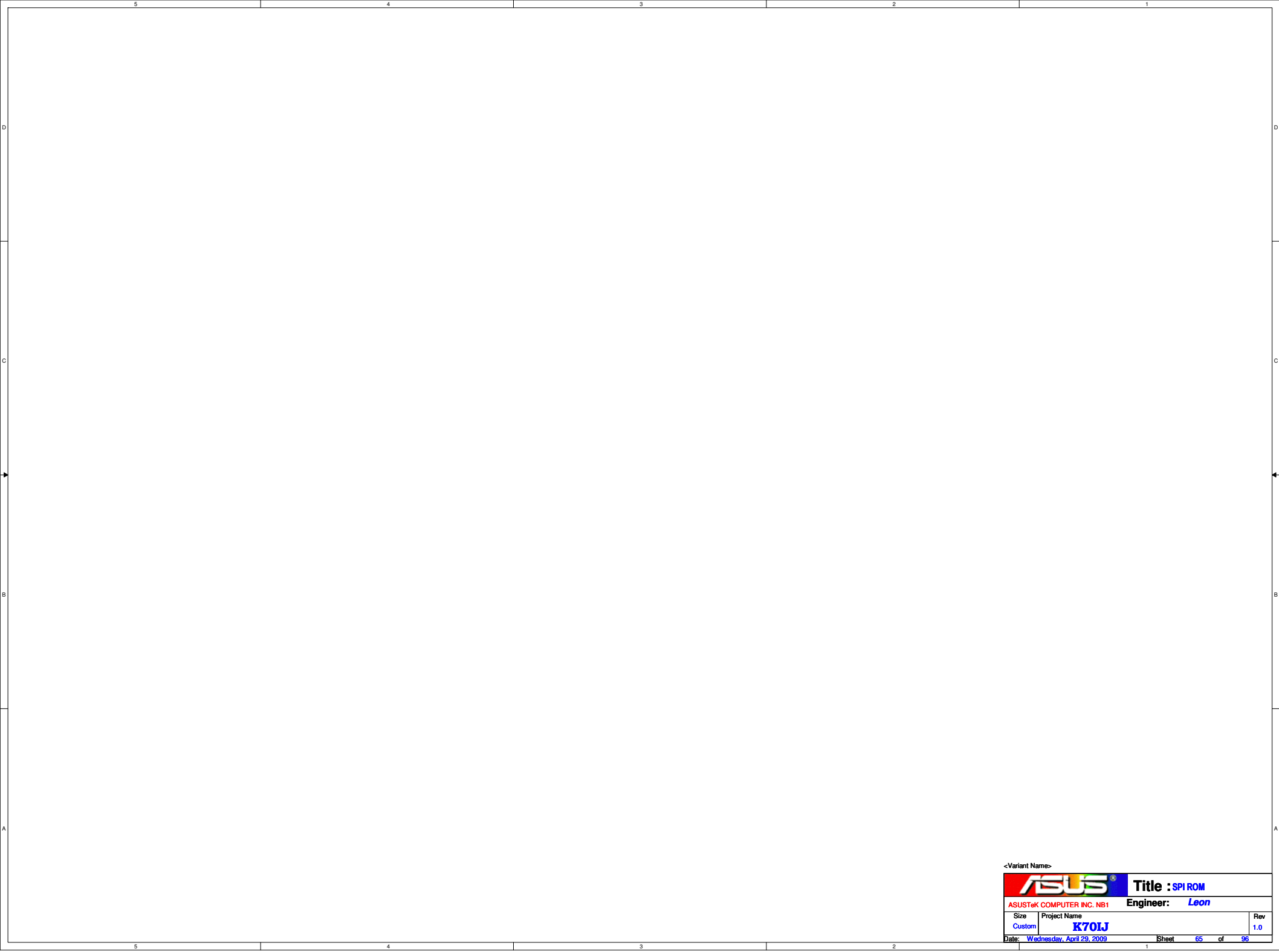
ASUSTeK COMPUTER INC

Engineer: Leon

|        |              |     |
|--------|--------------|-----|
| Size   | Project Name | Rev |
| Custom | K70IJ        | 1.0 |

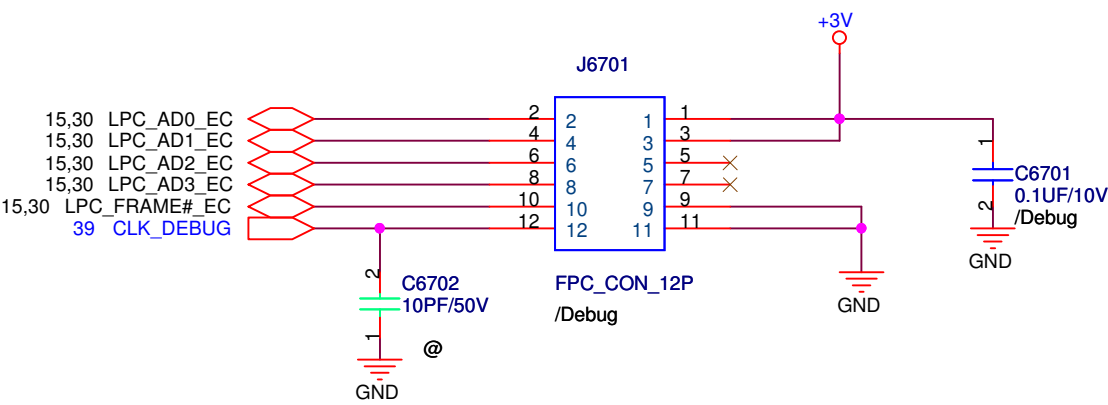
Date: Wednesday, April 29, 2009Sheet 63 of 96





|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                |    |       |                                                                                       |  |             |  |  |                      |  |                |  |  |      |              |  |  |     |        |       |  |  |     |                                 |  |       |    |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|----------------|----|-------|---------------------------------------------------------------------------------------|--|-------------|--|--|----------------------|--|----------------|--|--|------|--------------|--|--|-----|--------|-------|--|--|-----|---------------------------------|--|-------|----|-------|
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4            | 3              | 2  | 1     |                                                                                       |  |             |  |  |                      |  |                |  |  |      |              |  |  |     |        |       |  |  |     |                                 |  |       |    |       |
| D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |                |    | D     |                                                                                       |  |             |  |  |                      |  |                |  |  |      |              |  |  |     |        |       |  |  |     |                                 |  |       |    |       |
| C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |                |    | C     |                                                                                       |  |             |  |  |                      |  |                |  |  |      |              |  |  |     |        |       |  |  |     |                                 |  |       |    |       |
| B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |                |    | B     |                                                                                       |  |             |  |  |                      |  |                |  |  |      |              |  |  |     |        |       |  |  |     |                                 |  |       |    |       |
| A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |              |                |    | A     |                                                                                       |  |             |  |  |                      |  |                |  |  |      |              |  |  |     |        |       |  |  |     |                                 |  |       |    |       |
| <div>&lt;Variant Name&gt;</div> <table><tr><td colspan="2"></td><td colspan="3">Title : LED</td></tr><tr><td colspan="2">ASUSTeK COMPUTER INC</td><td colspan="3">Engineer: Leon</td></tr><tr><td>Size</td><td colspan="3">Project Name</td><td>Rev</td></tr><tr><td>Custom</td><td colspan="3">K70IJ</td><td>1.0</td></tr><tr><td colspan="2">Date: Wednesday, April 29, 2009</td><td>Sheet</td><td>66</td><td>of 96</td></tr></table> |              |                |    |       |  |  | Title : LED |  |  | ASUSTeK COMPUTER INC |  | Engineer: Leon |  |  | Size | Project Name |  |  | Rev | Custom | K70IJ |  |  | 1.0 | Date: Wednesday, April 29, 2009 |  | Sheet | 66 | of 96 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                         |              | Title : LED    |    |       |                                                                                       |  |             |  |  |                      |  |                |  |  |      |              |  |  |     |        |       |  |  |     |                                 |  |       |    |       |
| ASUSTeK COMPUTER INC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              | Engineer: Leon |    |       |                                                                                       |  |             |  |  |                      |  |                |  |  |      |              |  |  |     |        |       |  |  |     |                                 |  |       |    |       |
| Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Project Name |                |    | Rev   |                                                                                       |  |             |  |  |                      |  |                |  |  |      |              |  |  |     |        |       |  |  |     |                                 |  |       |    |       |
| Custom                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | K70IJ        |                |    | 1.0   |                                                                                       |  |             |  |  |                      |  |                |  |  |      |              |  |  |     |        |       |  |  |     |                                 |  |       |    |       |
| Date: Wednesday, April 29, 2009                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              | Sheet          | 66 | of 96 |                                                                                       |  |             |  |  |                      |  |                |  |  |      |              |  |  |     |        |       |  |  |     |                                 |  |       |    |       |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 4            | 3              | 2  | 1     |                                                                                       |  |             |  |  |                      |  |                |  |  |      |              |  |  |     |        |       |  |  |     |                                 |  |       |    |       |

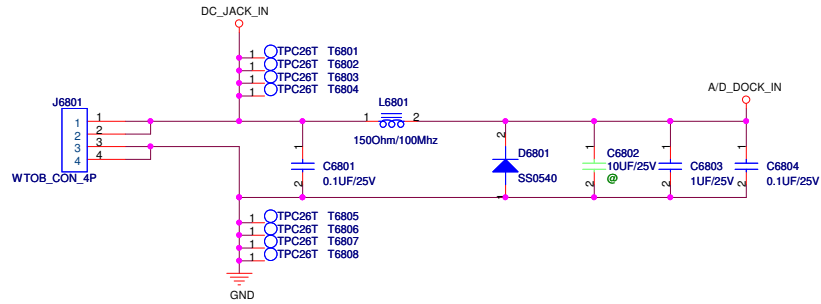
# LPC DEBUG PORT



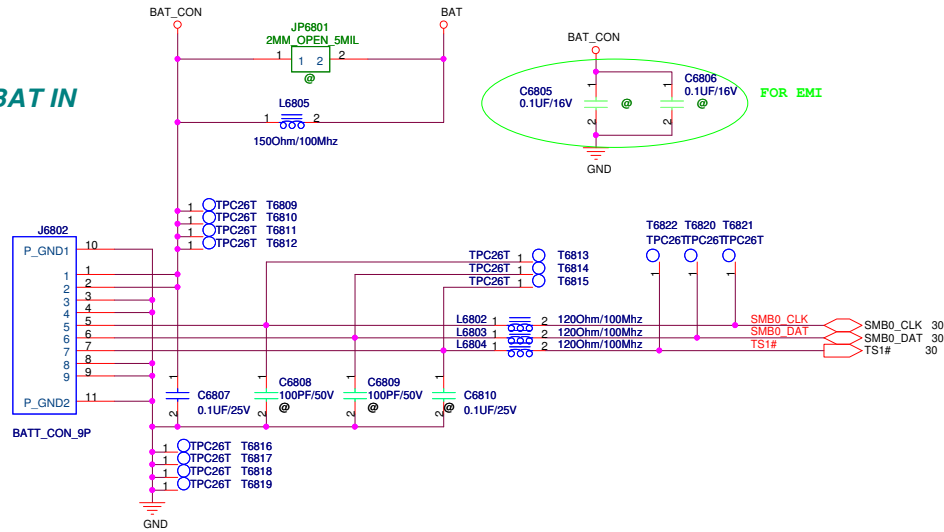
<Variant Name>

|                                                                                       |                              |                              |                   |
|---------------------------------------------------------------------------------------|------------------------------|------------------------------|-------------------|
|  |                              | Title : <b>DEBUG CONN</b>    |                   |
| ASUSTeK COMPUTER INC                                                                  |                              | Engineer: <b>Leon</b>        |                   |
| Size<br><b>A</b>                                                                      | Project Name<br><b>K70IJ</b> |                              | Rev<br><b>1.0</b> |
| Date: <b>Thursday, April 30, 2009</b>                                                 |                              | Sheet <b>67</b> of <b>96</b> |                   |

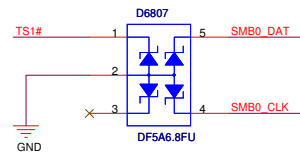
## DC IN



## BAT IN

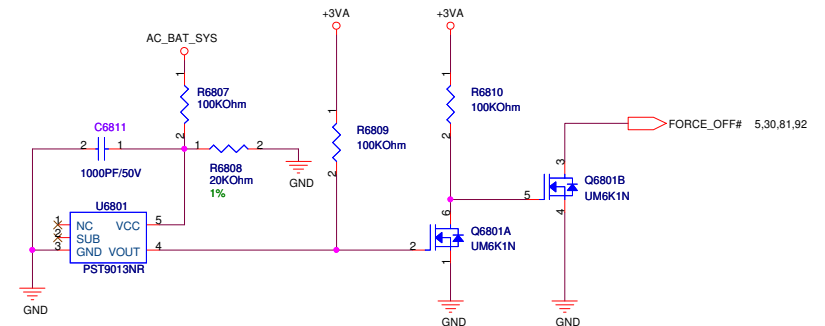


**Note:** When plug in or out the battery, it may cause a spike to damage EC and gas gauge. It needs to add varistors to protect those pins.



## Without Battery & Pull out Adapter

When AC\_BAT\_SYS<7.8V Active



<Variant Name>

|                                |              |                                |          |
|--------------------------------|--------------|--------------------------------|----------|
| <b>ASUS</b>                    |              | <b>Title : DC &amp; BAT IN</b> |          |
| ASUSTeK COMPUTER INC. NB1      |              | Engineer: Leon                 |          |
| Size                           | Project Name | Rev                            |          |
| Custom                         | K70IJ        | 1.0                            |          |
| Date: Thursday, April 30, 2009 |              | Sheet                          | 68 of 96 |

D

C

8

A

<Variant Name>



**Title :** Schematic page name

ASUSTeK COMPUTER INC

**Engineer:** Leon

Size  
Custom

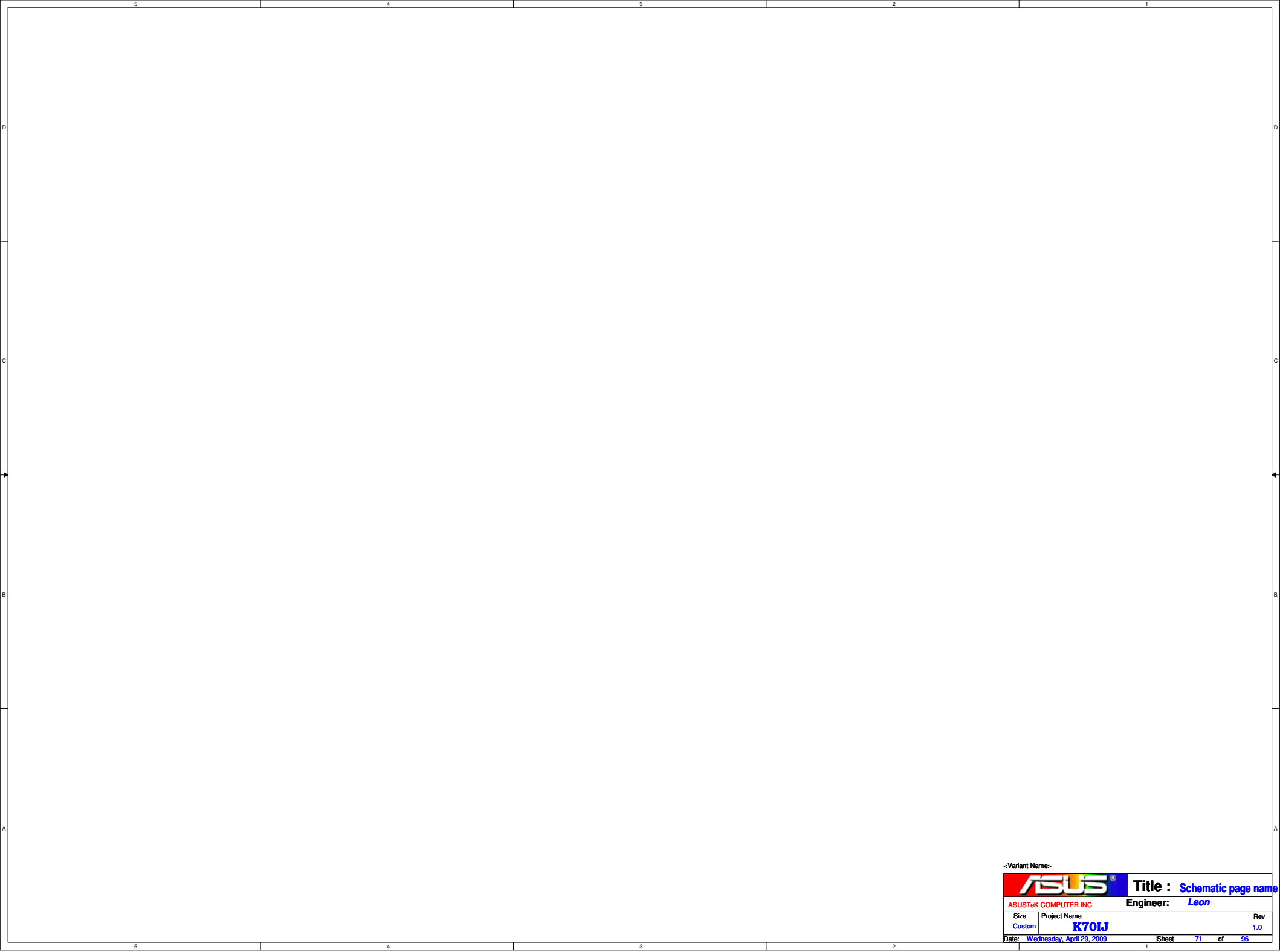
|              |              |
|--------------|--------------|
| Project Name | <b>K70IJ</b> |
|--------------|--------------|

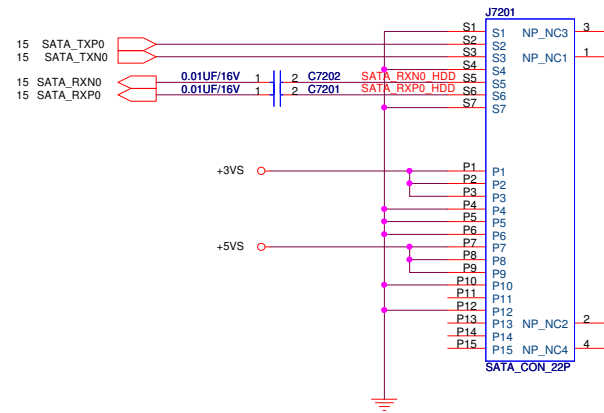
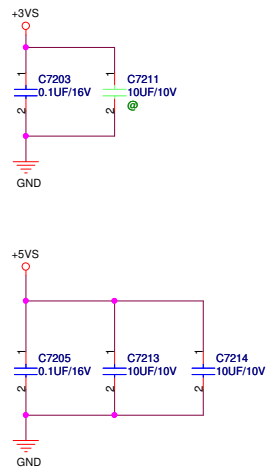
|     |
|-----|
| Rev |
| 1.0 |

Date: Wednesday, April 29, 2009

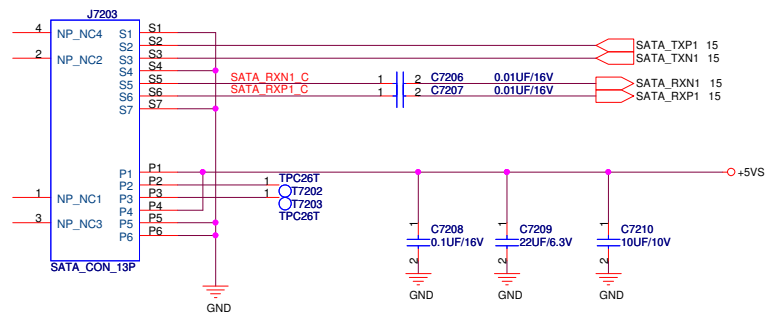
Sheet 69 of 96

|   |   |   |   |   |   |
|---|---|---|---|---|---|
|   | 5 | 4 | 3 | 2 | 1 |
| D |   |   |   |   |   |
| C |   |   |   |   |   |
| B |   |   |   |   |   |
| A |   |   |   |   |   |
|   | 5 | 4 | 3 | 2 | 1 |



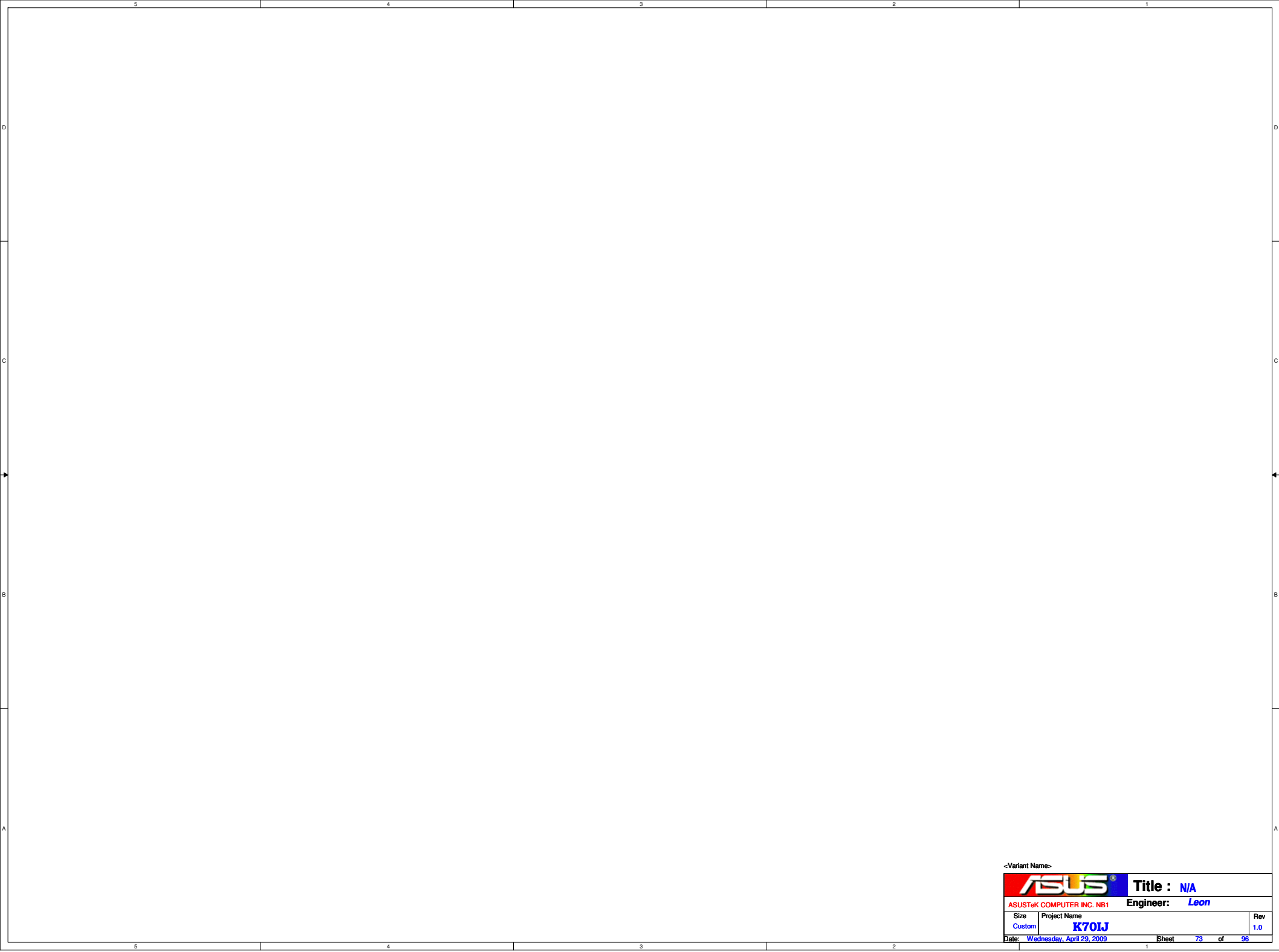


ODD



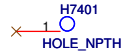
<Variant Name>

|                                                                                       |                              |                         |            |
|---------------------------------------------------------------------------------------|------------------------------|-------------------------|------------|
|  |                              | <b>Title :</b> SATA-ODD |            |
| ASUSTeK COMPUTER INC. NB1                                                             |                              | <b>Engineer:</b> Leon   |            |
| Size<br>Custom                                                                        | Project Name<br><b>K70IJ</b> |                         | Rev<br>1.0 |
| Date: Thursday, April 30, 2009                                                        |                              | Sheet 72                | of 96      |

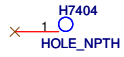
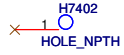


|                                                                                       |                              |                              |            |
|---------------------------------------------------------------------------------------|------------------------------|------------------------------|------------|
| <Variant Name>                                                                        |                              |                              |            |
|  |                              | Title : <b>N/A</b>           |            |
| ASUSTeK COMPUTER INC. NB1                                                             |                              | Engineer: <b>Leon</b>        |            |
| Size<br>Custom                                                                        | Project Name<br><b>K70IJ</b> |                              | Rev<br>1.0 |
| Date: <b>Wednesday, April 29, 2009</b>                                                |                              | Sheet <b>73</b> of <b>96</b> |            |

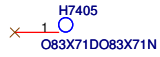
### Hole-A



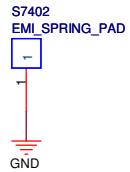
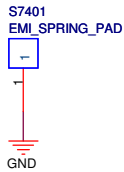
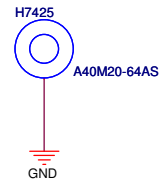
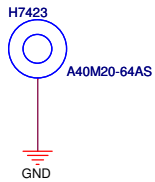
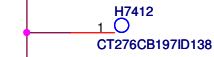
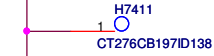
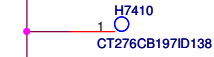
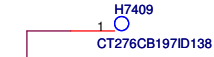
### Hole-B



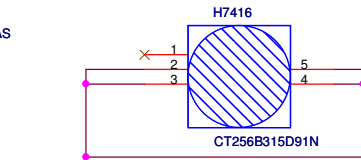
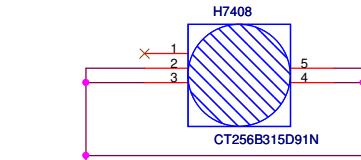
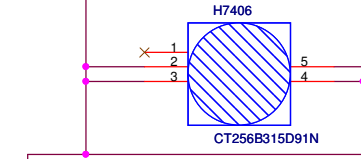
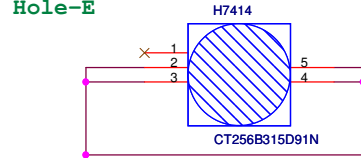
### Hole-C



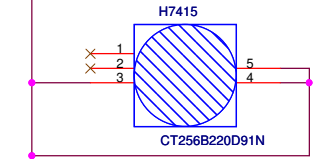
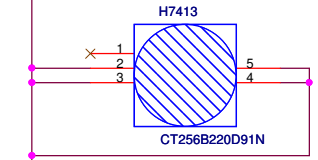
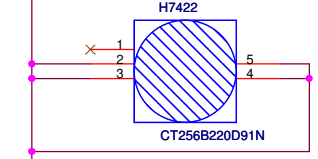
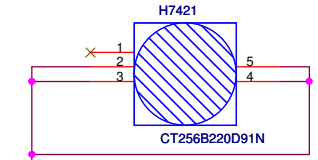
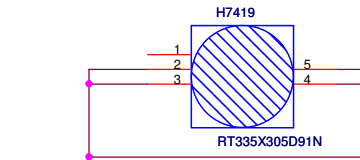
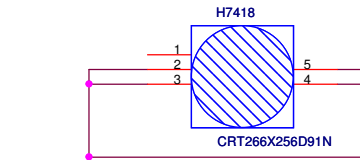
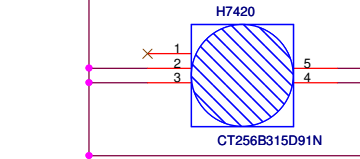
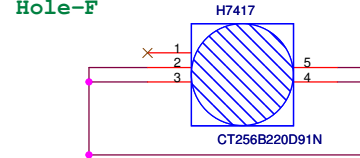
### Hole-D



### Hole-E



### Hole-F



<Variant Name>

|                                 |                              |                     |            |
|---------------------------------|------------------------------|---------------------|------------|
| <b>ASUS</b>                     |                              | <b>Title : Hole</b> |            |
| ASUSTeK COMPUTER INC            |                              | Engineer: Leon      |            |
| Size<br>B                       | Project Name<br><b>K70IJ</b> |                     | Rev<br>1.0 |
| Date: Wednesday, April 29, 2009 |                              | Sheet 74 of 96      |            |

|   |   |   |   |   |
|---|---|---|---|---|
| 5 | 4 | 3 | 2 | 1 |
| D |   |   |   | D |
| C |   |   |   | C |
| B |   |   |   | B |
| A |   |   |   | A |

<Variant Name>

|                                                                                       |                              |                       |                        |
|---------------------------------------------------------------------------------------|------------------------------|-----------------------|------------------------|
|  |                              | Title : <b>N/A</b>    |                        |
| ASUSTeK COMPUTER INC                                                                  |                              | Engineer: <b>Leon</b> |                        |
| Size<br><b>A</b>                                                                      | Project Name<br><b>K70IJ</b> |                       | Rev<br><b>1.0</b>      |
| Date: <b>Wednesday, April 29, 2009</b>                                                |                              | Sheet                 | <b>75</b> of <b>96</b> |



R2.0 090429-1 change R1503 from 20Kohm to 22Kohm for power sequence. page15  
R2.0 090429-2 Add some cap for power rippler page23  
R2.0 090429-3 Add some cap for power rippler page24  
R2.0 090429-4 Change R3046 to 220K to reduce power loading on crystal page30  
R2.0 090430-1 Change higher cap. page12  
R2.0 090430-2 Change higher cap. to reduce power rippler page12  
R2.0 090430-3 Change higher cap. to reduce power rippler page18

<Variant Name>

|                                                                                       |              |                 |          |
|---------------------------------------------------------------------------------------|--------------|-----------------|----------|
|  |              | Title : History |          |
| ASUSTeK COMPUTER INC                                                                  |              | Engineer: Leon  |          |
| Size                                                                                  | Project Name | Rev             |          |
| Custom                                                                                | K70IJ        | 1.0             |          |
| Date: Thursday, April 30, 2009                                                        |              | Sheet           | 77 of 96 |

D

C

B

A

<Variant Name>



**Title :** Schematic page name

ASUSTeK COMPUTER INC

**Engineer:** Leon

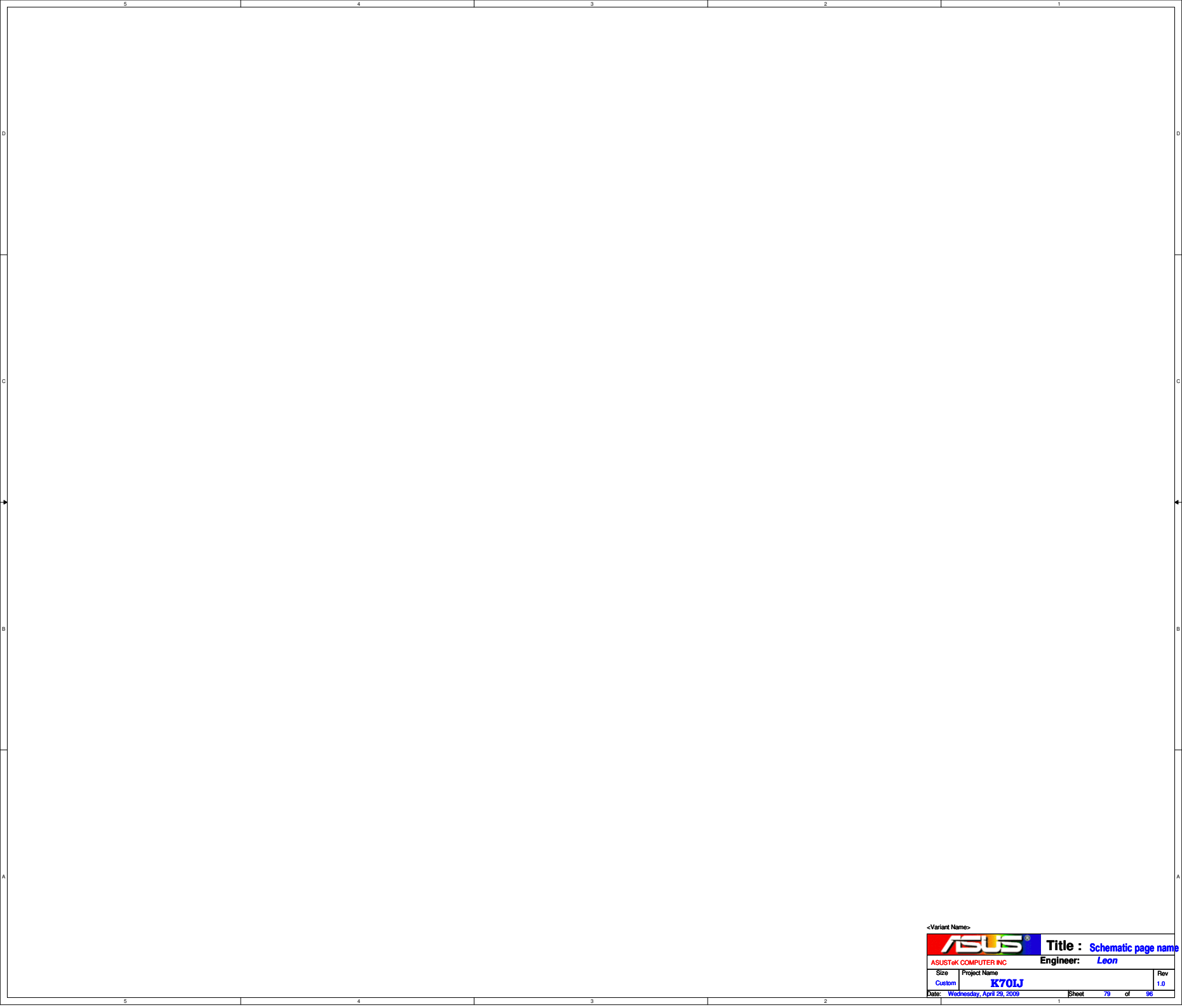
|      |        |
|------|--------|
| Size | Custom |
|------|--------|

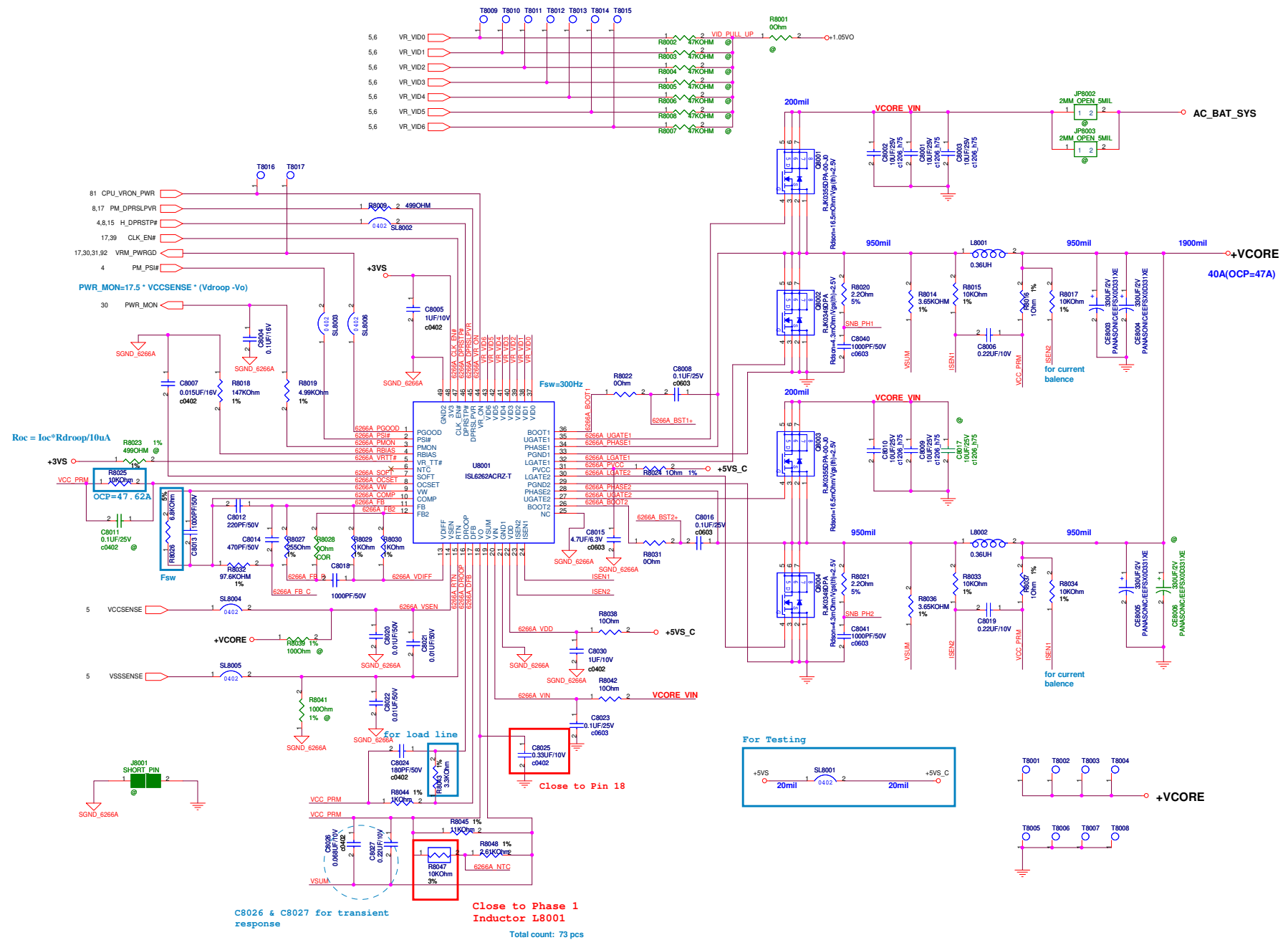
|              |              |
|--------------|--------------|
| Project Name | <b>K70IJ</b> |
|--------------|--------------|

|     |  |
|-----|--|
| Rev |  |
| 1.0 |  |

Date: Wednesday, April 29, 2009

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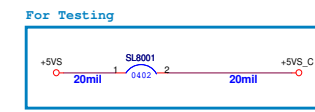


$R_{oc} = I_{oc} \cdot R_{droop} / 10uA$

$OCP = 47.62A$

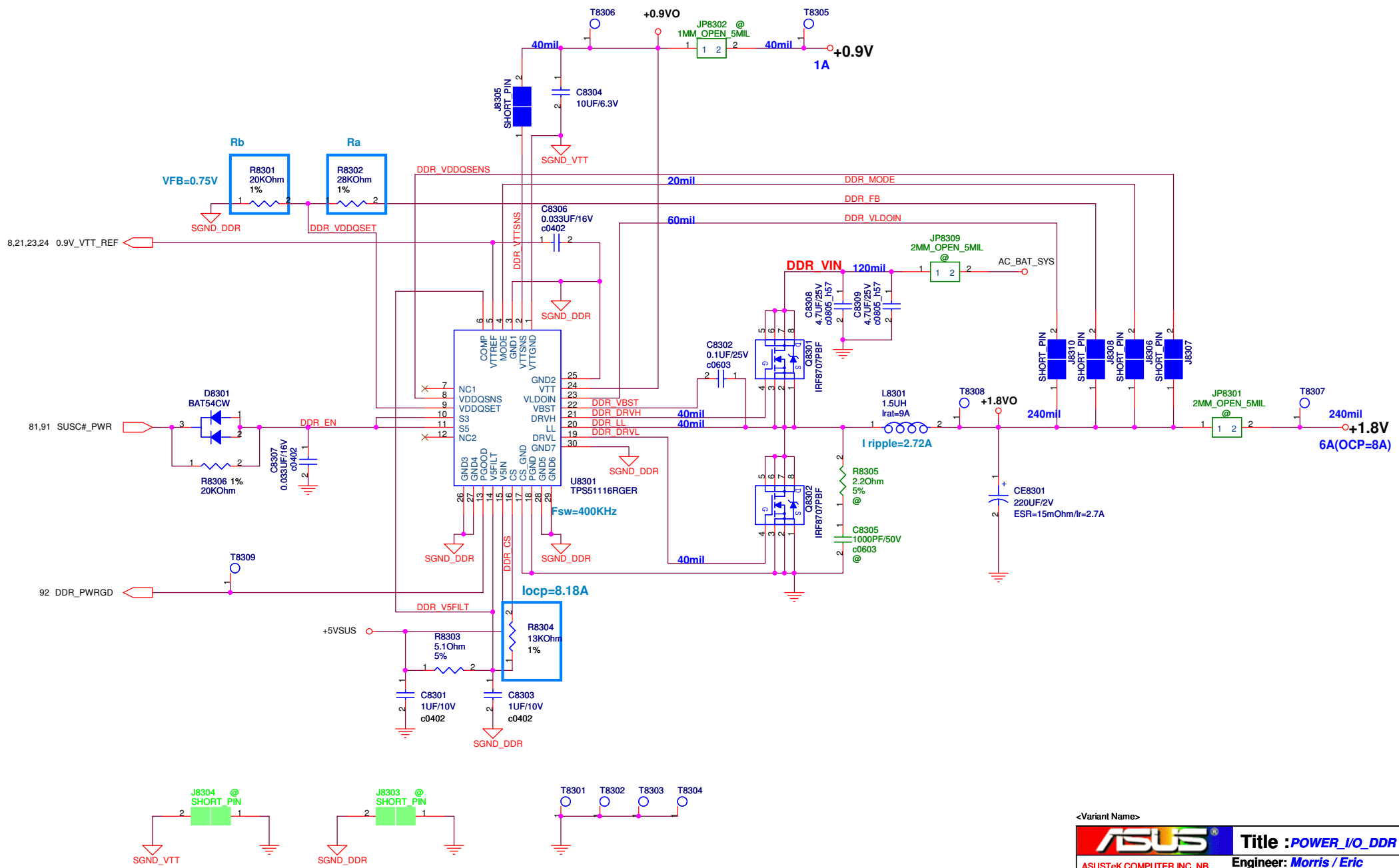
Close to Phase 1 Inductor L8001

Total count: 73 pcs











|      |              |     |   |   |                                                                                                                               |      |              |     |   |  |     |
|------|--------------|-----|---|---|-------------------------------------------------------------------------------------------------------------------------------|------|--------------|-----|---|--|-----|
| 5    | 4            | 3   | 2 | 1 |                                                                                                                               |      |              |     |   |  |     |
| D    |              |     |   |   | D                                                                                                                             |      |              |     |   |  |     |
| C    |              |     |   |   | C                                                                                                                             |      |              |     |   |  |     |
| B    |              |     |   |   | B                                                                                                                             |      |              |     |   |  |     |
| A    |              |     |   |   | A                                                                                                                             |      |              |     |   |  |     |
|      |              |     |   |   | <Variant Name>                                                                                                                |      |              |     |   |  |     |
|      |              |     |   |   | <div><div></div><div>Title :</div></div> |      |              |     |   |  |     |
|      |              |     |   |   | <div>ASUSTeK COMPUTER INC. NB1</div> <div>Engineer:</div>                                                                     |      |              |     |   |  |     |
|      |              |     |   |   | <table><tr><td>Size</td><td>Project Name</td><td>Rev</td></tr><tr><td>A</td><td></td><td>1.0</td></tr></table>                | Size | Project Name | Rev | A |  | 1.0 |
| Size | Project Name | Rev |   |   |                                                                                                                               |      |              |     |   |  |     |
| A    |              | 1.0 |   |   |                                                                                                                               |      |              |     |   |  |     |
|      |              |     |   |   | Date: <div>Thursday, April 30, 2009</div> Sheet <div>85</div> of <div>96</div>                                                |      |              |     |   |  |     |
| 5    | 4            | 3   | 2 | 1 |                                                                                                                               |      |              |     |   |  |     |



D

C

8

A

<Variant Name>



**Title :**

**Engineer:**

<OrgName>

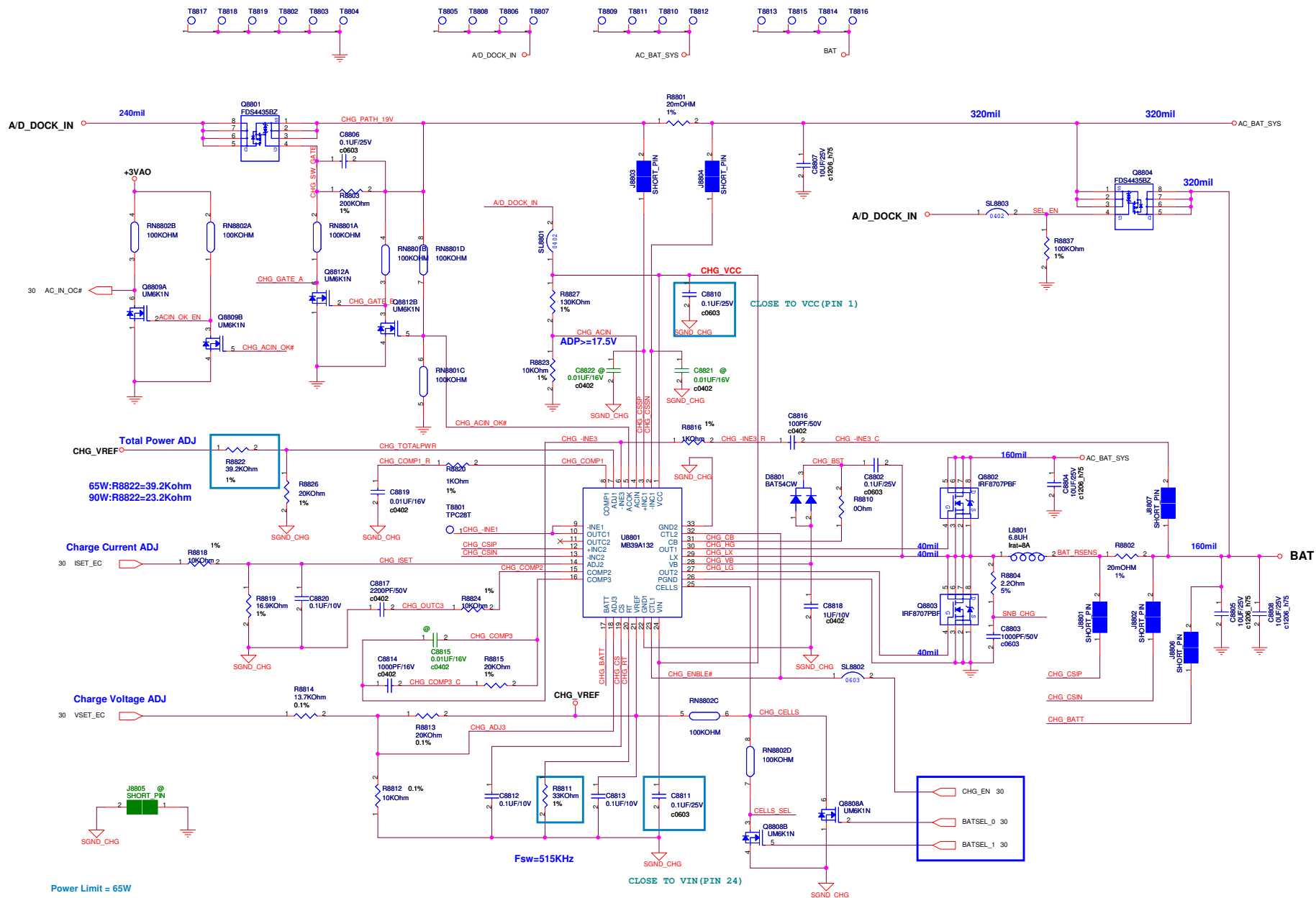
|      |        |
|------|--------|
| Size | Custom |
|------|--------|

|              |
|--------------|
| Project Name |
|--------------|

|     |  |
|-----|--|
| Rev |  |
| 1.0 |  |

Date: Thursday, April 30, 2009

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| Battery Cells |          |         |
|---------------|----------|---------|
| BATSEL_1      | BATSEL_0 | CELLS   |
| H             | H        | 2 CELLS |
| L             | H        | 2 CELLS |
| H             | L        | 3 CELLS |
| L             | L        | 4 CELLS |

D

C

8

A



D

C

B

**A**



<Variant Name>



**Title :**

&lt;OrgName&gt;

**Engineer:**

|      |        |
|------|--------|
| Size | Custom |
|------|--------|

|              |  |
|--------------|--|
| Project Name |  |
|--------------|--|

|     |  |
|-----|--|
| Rev |  |
| 1.0 |  |

Date: Thursday, April 30, 2009

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BATTERY IN DETECT

<Variant Name>



Title :POWER\_DETECT

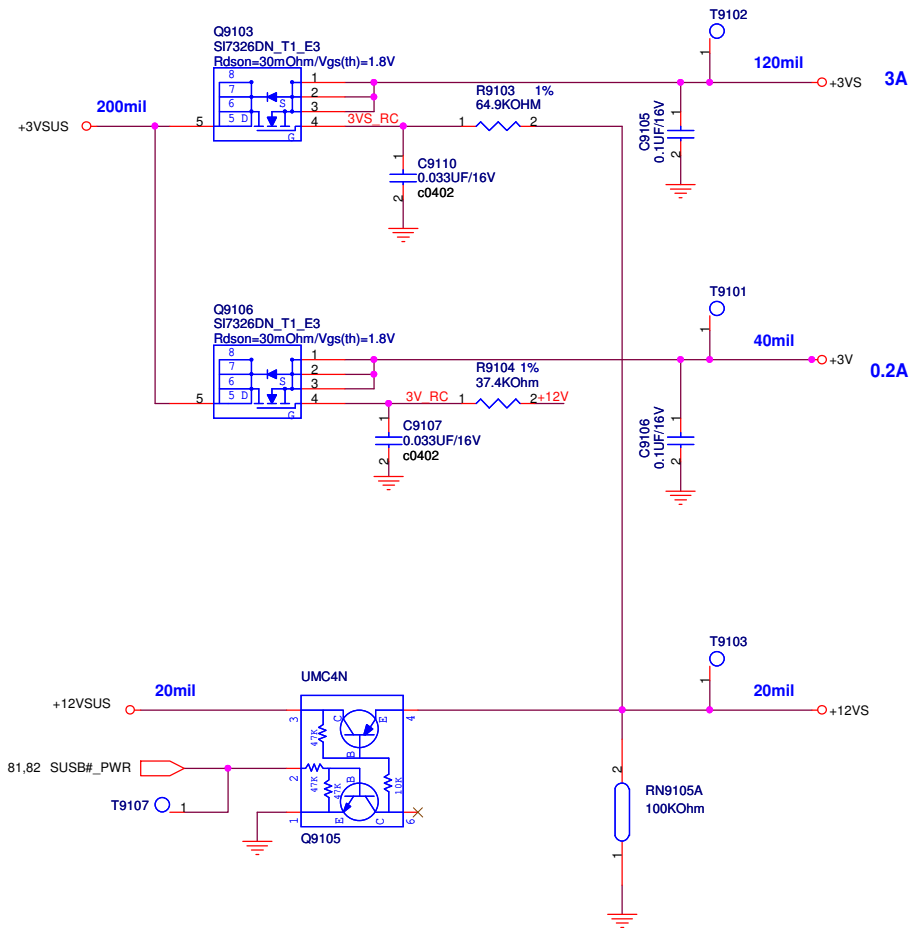
ASUSTeK COMPUTER INC. NB

Engineer: *Morris*

|        |              |     |
|--------|--------------|-----|
| Size   | Project Name | Rev |
| Custom | K50II        | 1.0 |

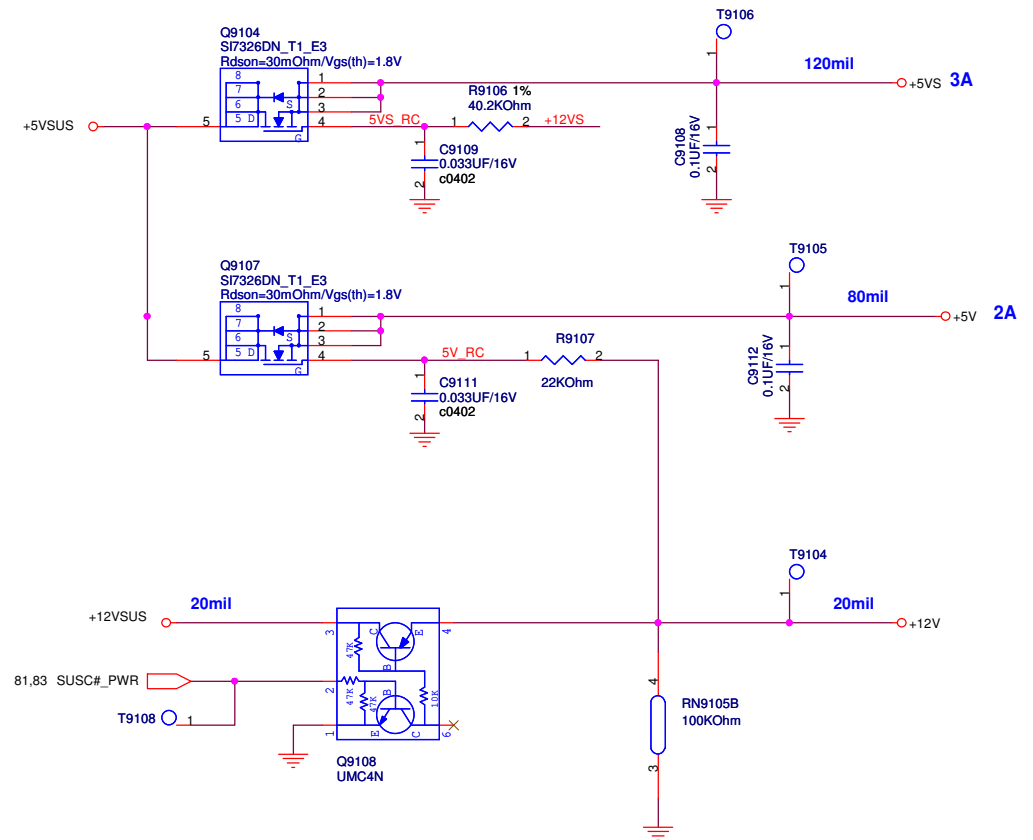
Date: *Thursday, April 30, 2009* Sheet 90 of 96

# SUSB#\_PWR POWER



Total count: 19 pcs

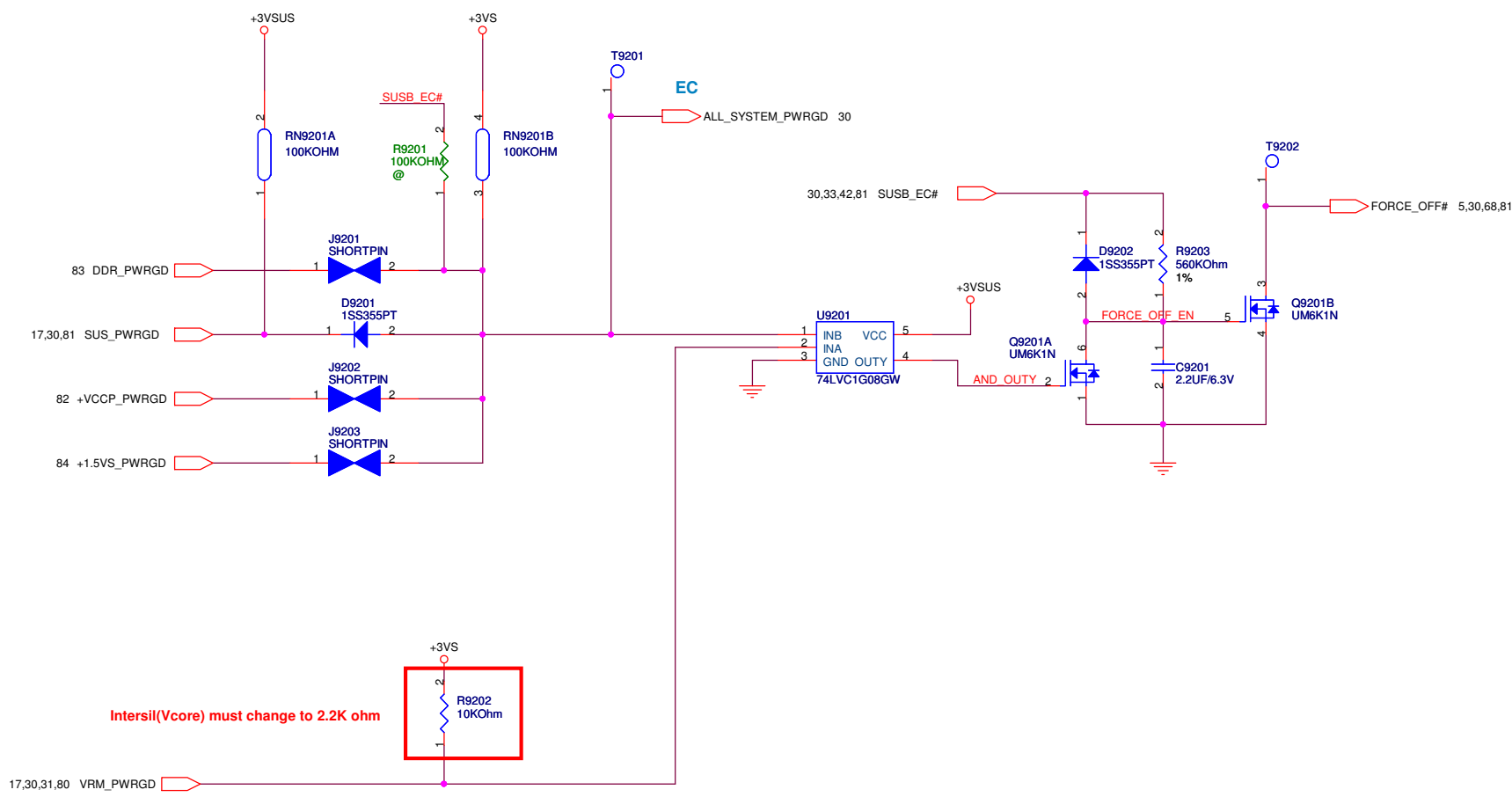
# SUSC#\_PWR POWER



<Variant Name>

|                                |                              |                                 |            |
|--------------------------------|------------------------------|---------------------------------|------------|
| <b>ASUS</b>                    |                              | <b>Title :POWER_LOAD SWITCH</b> |            |
| ASUSTeK COMPUTER INC. NB       |                              | Engineer: Morris / Eric         |            |
| Size<br>B                      | Project Name<br><b>K70IJ</b> |                                 | Rev<br>1.0 |
| Date: Thursday, April 30, 2009 |                              | Sheet 91 of 96                  |            |

POWER GOOD DETECTOR



Total count: 8 pcs

<Variant Name>

|                                                                                       |                              |                             |            |
|---------------------------------------------------------------------------------------|------------------------------|-----------------------------|------------|
|  |                              | <b>Title :POWER_PROTECT</b> |            |
| ASUSTeK COMPUTER INC. NB                                                              |                              | Engineer: Morris / Eric     |            |
| Size<br>B                                                                             | Project Name<br><b>K70IJ</b> |                             | Rev<br>1.0 |
| Date: Thursday, April 30, 2009                                                        |                              | Sheet                       | 92 of 96   |



