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|------|--|-------------------------------|--|---------|--|------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------|--|----------|--|------------------------------|--|
| 8    |  | 7                             |  | 6       |  | 5                                  |  | 4                                                                                                                                         |  | 3                         |  | 2        |  | 1                            |  |
| PAGE |  | CONTENTS                      |  | PAGE    |  | CONTENTS                           |  | SCHEMATIC REV<br>S. 1                                                                                                                     |  | PBA NUMBER<br>X800101-100 |  | REV<br>F |  | BOM RELEASE DATE<br>04/13/04 |  |
| [1]  |  | COVER PAGE]                   |  | [22]    |  | VOLTAGE REGULATOR 1.5V]            |  | ***** IMPORTANT *****<br>SCHEMATIC CORRESPONDS TO BOM REVISION INDICATED.<br>PLEASE REFER TO AGILE FOR LATEST BOM AND ECOS<br>FOR UPDATES |  |                           |  |          |  |                              |  |
| [2]  |  | GPIO TABLE/VOLTAGE RAILS]     |  | [23]    |  | 1.5V OUTPUT FILTER/3.3V REGULATOR] |  | DVT<br>REV 5.1<br><br>FAB J/K<br>XM3<br><br>TUSCANY<br><br>PLEASE REFER TO THE TUSCANY DESIGN SPEC                                        |  |                           |  |          |  |                              |  |
| [3]  |  | PENTIUM III BGA2 PART 1 OF 4] |  | [24]    |  | XCALIBUR ASIC]                     |  |                                                                                                                                           |  |                           |  |          |  |                              |  |
| [4]  |  | PENTIUM III BGA2 PART 2 OF 4] |  | [25]    |  | XCALIBUR DECOUPLING/CLOCKS]        |  |                                                                                                                                           |  |                           |  |          |  |                              |  |
| [5]  |  | PENTIUM III BGA2 PARTS 3 & 4] |  | [26]    |  | 1.5VTT/2.5V REGULATORS]            |  |                                                                                                                                           |  |                           |  |          |  |                              |  |
| [6]  |  | CPU VCORE/VTT DECOUPLING]     |  | [27]    |  | POWER CONNECTOR/5V DRAIN]          |  |                                                                                                                                           |  |                           |  |          |  |                              |  |
| [7]  |  | NV2B 1 OF 2(NORTH BRIDGE)]    |  | [28]    |  | BULK DECOUPLING]                   |  |                                                                                                                                           |  |                           |  |          |  |                              |  |
| [8]  |  | NV2B 2 OF 2(NORTH BRIDGE)]    |  | [29]    |  | LAN ICS1893]                       |  |                                                                                                                                           |  |                           |  |          |  |                              |  |
| [9]  |  | NV2B STRAPPING]               |  | [30]    |  | LAN JACK/EEPROM/THERMAL SENSOR]    |  |                                                                                                                                           |  |                           |  |          |  |                              |  |
| [10] |  | NV2B/MCPX DECOUPLING]         |  | [31]    |  | IDE]                               |  |                                                                                                                                           |  |                           |  |          |  |                              |  |
| [11] |  | DDR SDRAM (PARTITION A)]      |  | [32]    |  | AUDIO CODEC/AUDIO VREG]            |  |                                                                                                                                           |  |                           |  |          |  |                              |  |
| [12] |  | DDR SDRAM (PARTITION B)]      |  | [33]    |  | AUDIO AMPLIFIER]                   |  |                                                                                                                                           |  |                           |  |          |  |                              |  |
| [13] |  | DDR SDRAM (PARTITION C)]      |  | [34]    |  | VIDEO FILTERING/MISC]              |  |                                                                                                                                           |  |                           |  |          |  |                              |  |
| [14] |  | DDR SDRAM (PARTITION D)]      |  | [35]    |  | AV CONNECTOR]                      |  |                                                                                                                                           |  |                           |  |          |  |                              |  |
| [15] |  | DDR SERIES TERM DATA A/B]     |  | [36]    |  | LABELS AND MOUNTING HOLES]         |  |                                                                                                                                           |  |                           |  |          |  |                              |  |
| [16] |  | DDR SERIES TERM DATA C/D]     |  | [37]    |  | USB FRONT PANEL]                   |  |                                                                                                                                           |  |                           |  |          |  |                              |  |
| [17] |  | MEMORY DECOUPLING]            |  | [38]    |  | FAN/DVD PWR/FRONT PANEL]           |  |                                                                                                                                           |  |                           |  |          |  |                              |  |
| [18] |  | MEMORY DECOUPLING]            |  | [39]    |  | XYCLOPS ASIC]                      |  |                                                                                                                                           |  |                           |  |          |  |                              |  |
| [19] |  | MCPX 1 OF 2]                  |  | [40]    |  | SUPERCAP]                          |  |                                                                                                                                           |  |                           |  |          |  |                              |  |
| [20] |  | MCPX 2 OF 2]                  |  | [41-46] |  | INDEX]                             |  |                                                                                                                                           |  |                           |  |          |  |                              |  |
| [21] |  | MCPX INPUT STRAPS]            |  |         |  |                                    |  |                                                                                                                                           |  |                           |  |          |  |                              |  |
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|      |  |                               |  |         |  |                                    |  |                                                                                                                                           |  |                           |  |          |  |                              |  |

GPIO USAGE TABLE

| DEVICE | NAME   | I/O | POWER WELL | DURING RESET | AFTER RESET | USAGE                |
|--------|--------|-----|------------|--------------|-------------|----------------------|
| MCPX   | GPI00  | OUT | VCC3       | Z            | Z           | TESTPOINT (NOT USED) |
| MCPX   | GPI01  | OUT | VCC3       | H            | H           | CNFG_SEL1            |
| MCPX   | GPI014 | IN  | VCC3       | Z            | Z           | CNFG_SEL0            |
| MCPX   | GPI015 | OUT | VCC3       | Z            | Z           | TP_DEBUG_GPI015      |
| MCPX   | GPI016 | IN  | VCC3       | Z            | Z           | CNFG_SEL2            |
| MCPX   | GPI019 | OUT | VCC3       | Z            | Z           | LULCNT1              |
| MCPX   | GPI020 | OUT | VCC3       | Z            | Z           | TESTPOINT (NOT USED) |
| MCPX   | GPI021 | IN  | VCC3       | H            | H           | SMI* INPUT FROM SMC  |
| MCPX   | GPI022 | OUT | VCC3       | Z            | Z           | LULCNT0              |
| MCPX   | GPI024 |     | VCC3       | Z            | Z           | TESTPOINT (NOT USED) |

| DEVICE | NAME  | I/O | POWER WELL | DURING RESET | AFTER RESET | USAGE  |
|--------|-------|-----|------------|--------------|-------------|--------|
| XCAL   | GPI00 | I/O | ?          | ?            | ?           | UNUSED |
| XCAL   | GPI01 | I/O | ?          | ?            | ?           | UNUSED |
| XCAL   | GPI02 | I/O | ?          | ?            | ?           | UNUSED |
| XCAL   | GPI03 | I/O | ?          | ?            | ?           | UNUSED |

| DEVICE | NAME      | I/O | POWER WELL | DURING RESET | AFTER RESET | USAGE  |
|--------|-----------|-----|------------|--------------|-------------|--------|
| XYCL   | GPIO      | I/O | ?          | ?            | ?           | UNUSED |
| XYCL   | RTCACTIVE | IN  | ?          | ?            | ?           | UNUSED |

VOLTAGE RAILS

| RAIL           | TYPICAL (V)    |
|----------------|----------------|
| V_CPUCORE      | 1.68V          |
| VCC            | 5V             |
| VCC3           | 3.3V           |
| V_3P3_STBY     | 3.3V STANDBY   |
| V_2P5          | 2.65V          |
| V_1P3          | 1.33V          |
| V_1P5_VTT      | 1.5V           |
| V_1P25_MEMVTT  | 1.325V         |
| AUD_5V_ANALOG* | 5V             |
| VCC_SW         | 5V (SWITCHED)  |
| +12V           | 12V (SWITCHED) |
| V_LDO_2P5      | 2.5V           |
| V_1P8          | 1.857V         |

BOM CONSOLIDATIONS

NOTE: COMPONENTS WITH A \* HAVE BEEN CONSOLIDATED WITH SIMILAR PARTS. TABLE BELOW SHOWS THE PARTS WHICH CHANGED. SEE CHANGELIST ON SHARE (TUSCANY/EVT4/SCHEMATIC REVIEW MATERIAL) FOR MORE INFORMATION.

REF DES

C4M5, C4N1, C4N4, C4NB, C4N11, C4N13, C4N14, C4N17, C4P4, C5N2  
C4N19, C5N4  
R6F3, R6F4, R8B4, R8G3  
R3G2, R3V2, R6A9, R7B2  
R1C5, R1C7, R1C8, R1C14, R1C15  
R4R3, R6E1  
R1D1, R1D5, R1P2, R7C1  
R6D1, R7C1  
R1C3, R1C4, R1C10, R1D2, R1D10, R1P3, R2B1, R2B2, R2B4, R2B6,  
R4M7, R4M10, R4P1, R5A1, R5G1, R5M3, R6A1, R6A2, R6A4, R6U1,  
R7C4, R7D3, R7E12, R7M4, R7M6, R8B5  
R1D6, R6B3, R7E8, R7R2

OLD PART

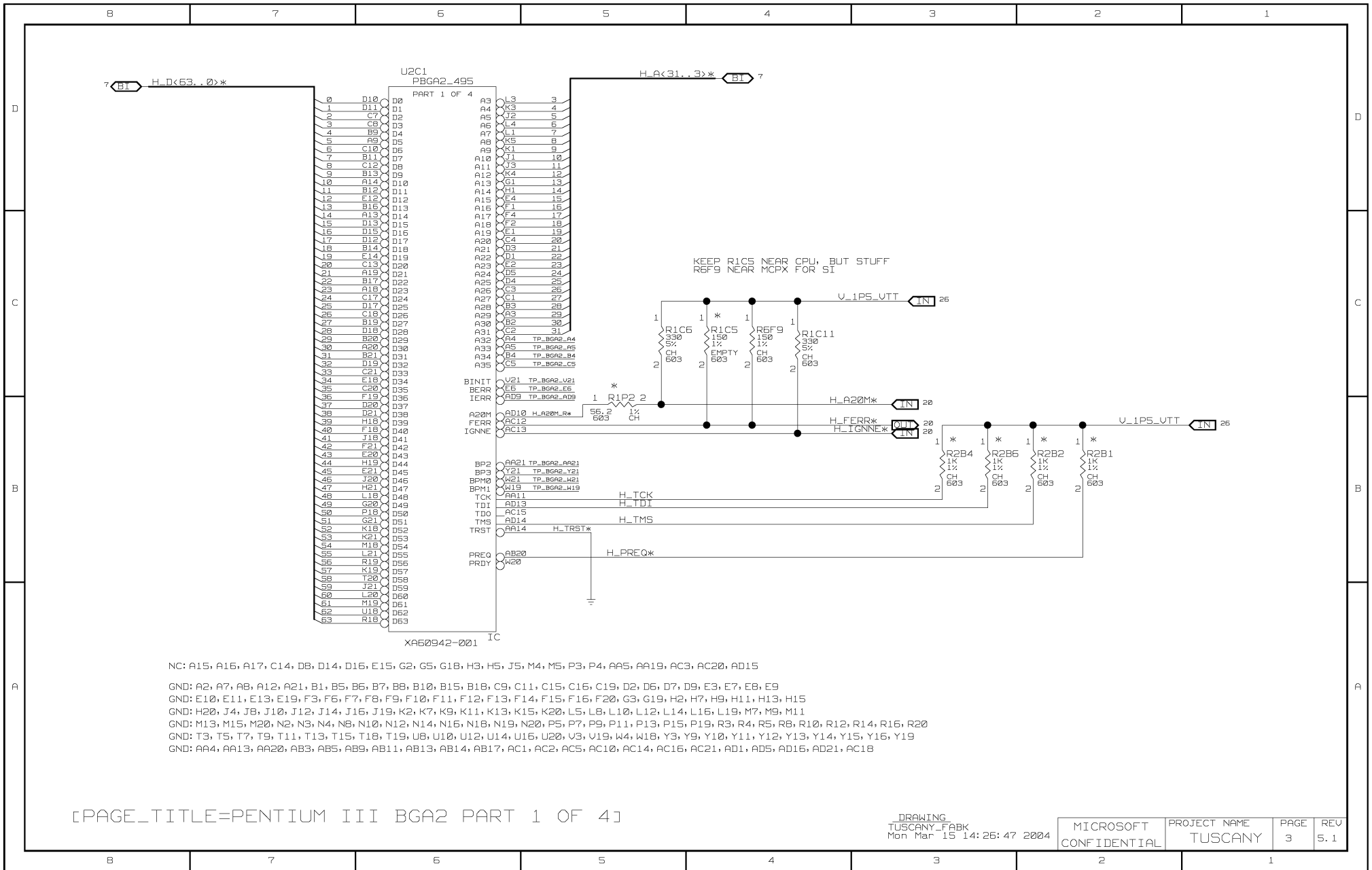
X602431-025  
X626747-046  
X202285-053  
X202285-025  
X202285-029  
X202286-068  
X202285-019  
XA36093-016  
X202285-049  
  
X202285-065

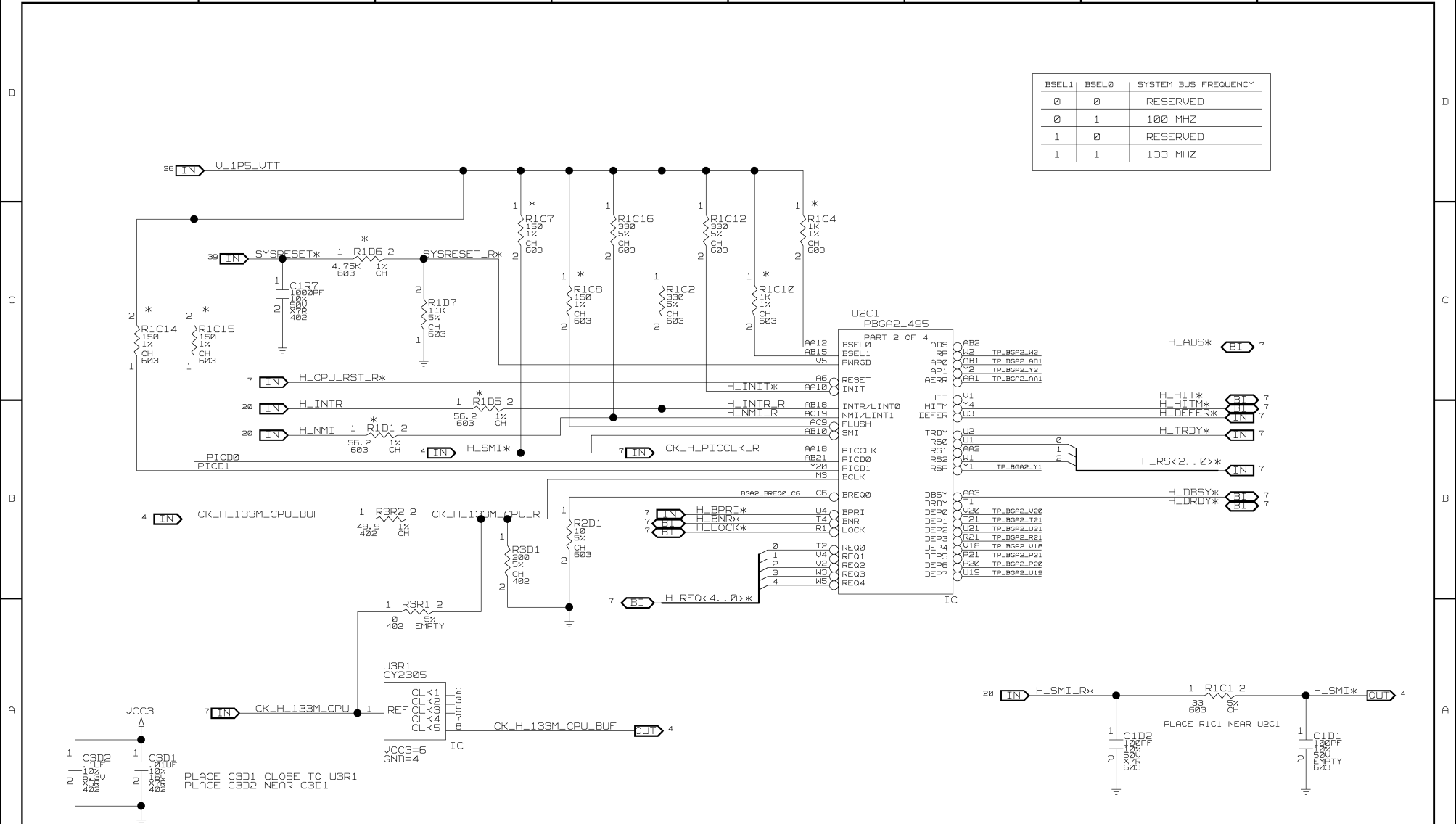
CAP, S/M, X7R, 0.01 UF, 50V, 20%, 0603  
CAP, S/M, X7R, 0.01 UF, 50V, 5%, 0603  
RES, S/M, 1.5K, 5%, 1/16W, 0603  
RES, S/M, 100 OHM, 5%, 1/16W, 0603  
RES, S/M, 150 OHM, 5%, 1/16W, 0603  
RES, S/M, 49.90 OHM, 1%, 1/16W, 0603  
RES, S/M, 56 OHM, 5%, 1/16W, 0603  
RES, S/M, 1K OHM, 5%, 1/16W, 0402  
RES, S/M, 1K OHM, 5%, 1/16W, 0603

NEW PART

X603269-020  
X603269-020  
X202286-211  
X202286-097  
X202286-114  
XA36092-045  
X202286-073  
X202286-193  
X202286-193  
  
X202286-258

CAP, S/M, X7R, 0.01 UF, 50V, 10%, 0603  
CAP, S/M, X7R, 0.01 UF, 50V, 10%, 0603  
RES, S/M, 1.54K OHM, 1%, 1/16W, 0603  
RES, S/M, 100.0 OHM, 1%, 1/16W, 0603  
RES, S/M, 150.0 OHM, 1%, 1/16W, 0603  
RES, S/M, 49.90 OHM, 1%, 1/16W, 0402  
RES, S/M, 56.20 OHM, 1%, 1/16W, 0603  
RES, S/M, 1.0K OHM, 1%, 1/16W, 0603  
RES, S/M, 1.0K OHM, 1%, 1/16W, 0603



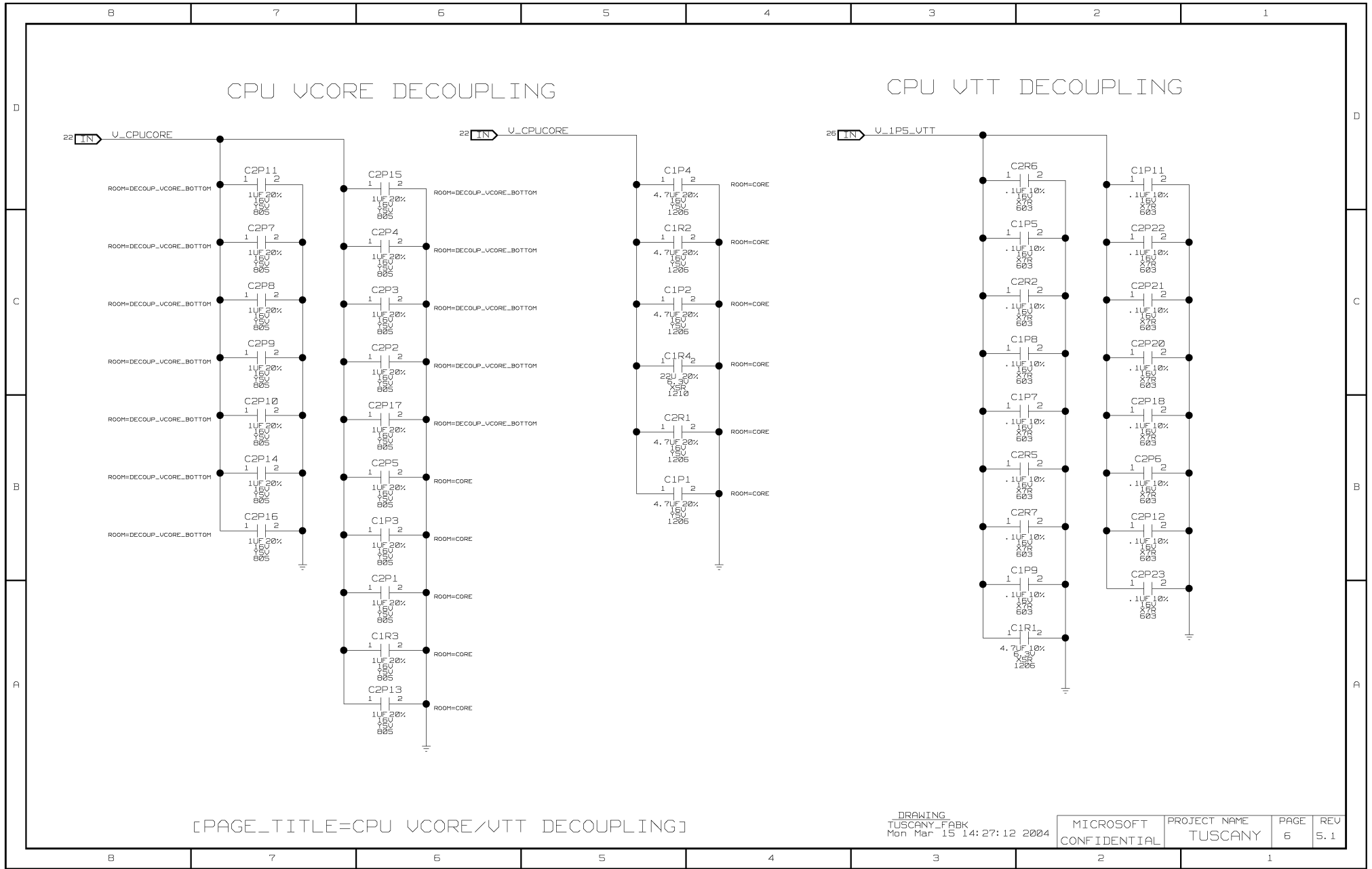


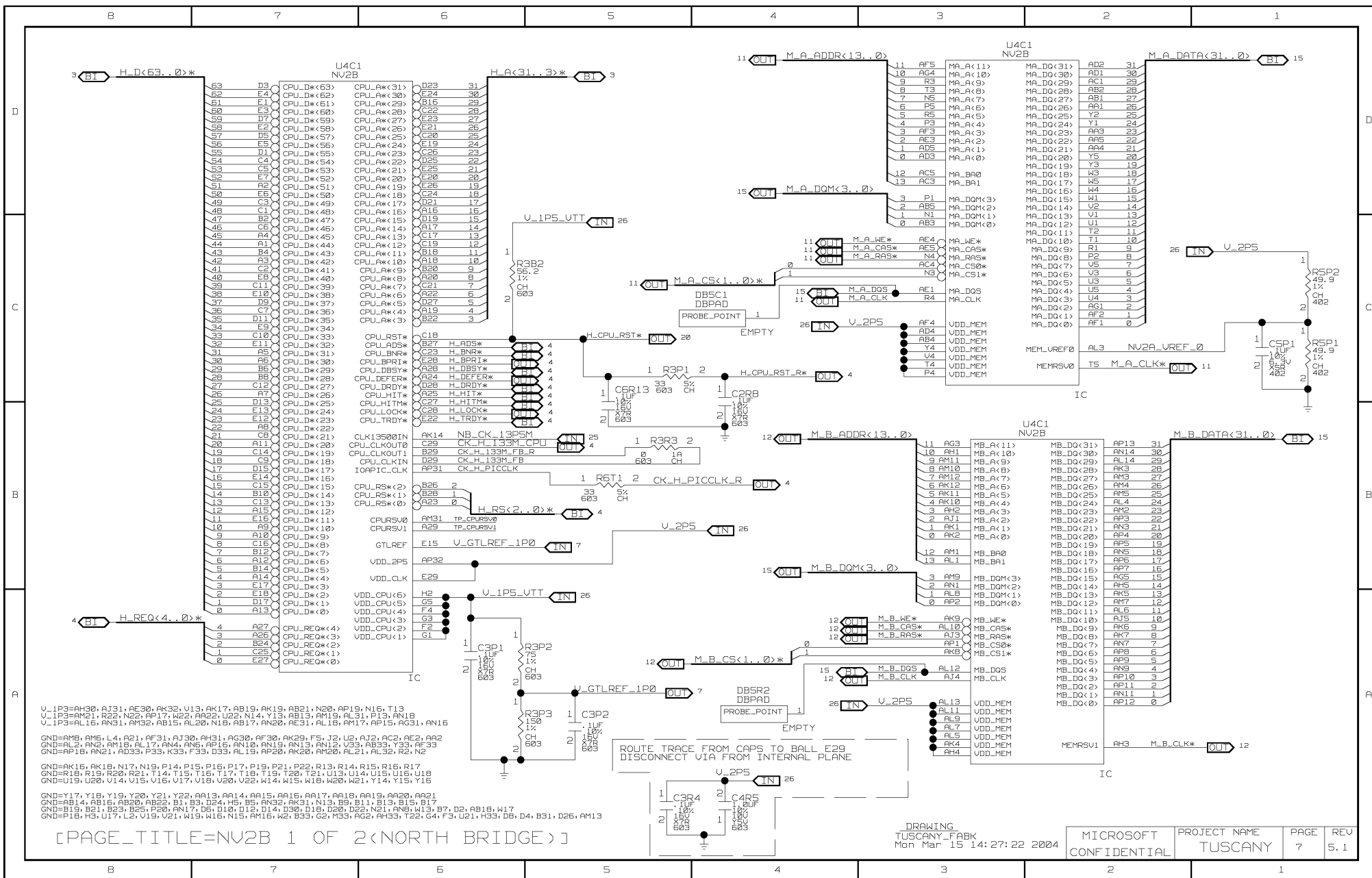
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|   |   |   |   |   |   |   | CONFIDENTIAL | SECRET |  |  |
| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1            |        |  |  |

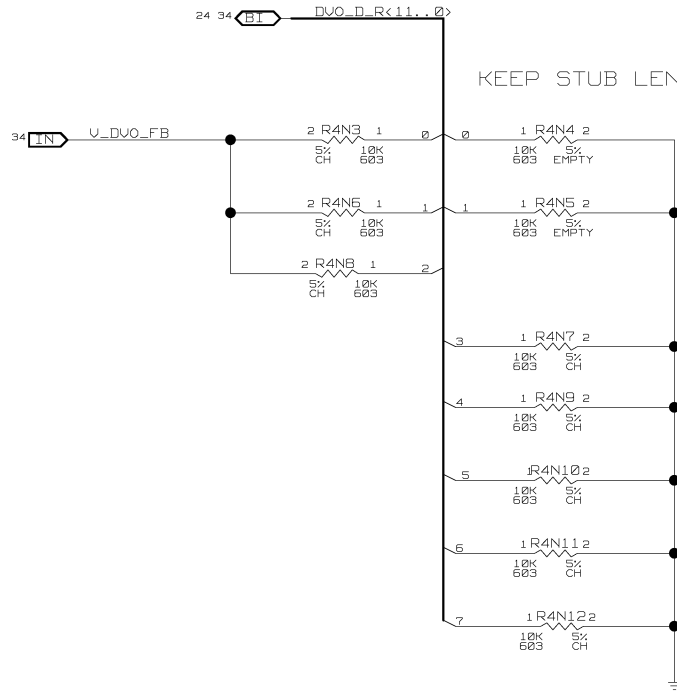
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Mon Mar 15 14:27:04 2004

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| MICROSOFT<br>CONFIDENTIAL | PROJECT NAME<br>TUSCANY | PAGE<br>5 | REV<br>5.1 |
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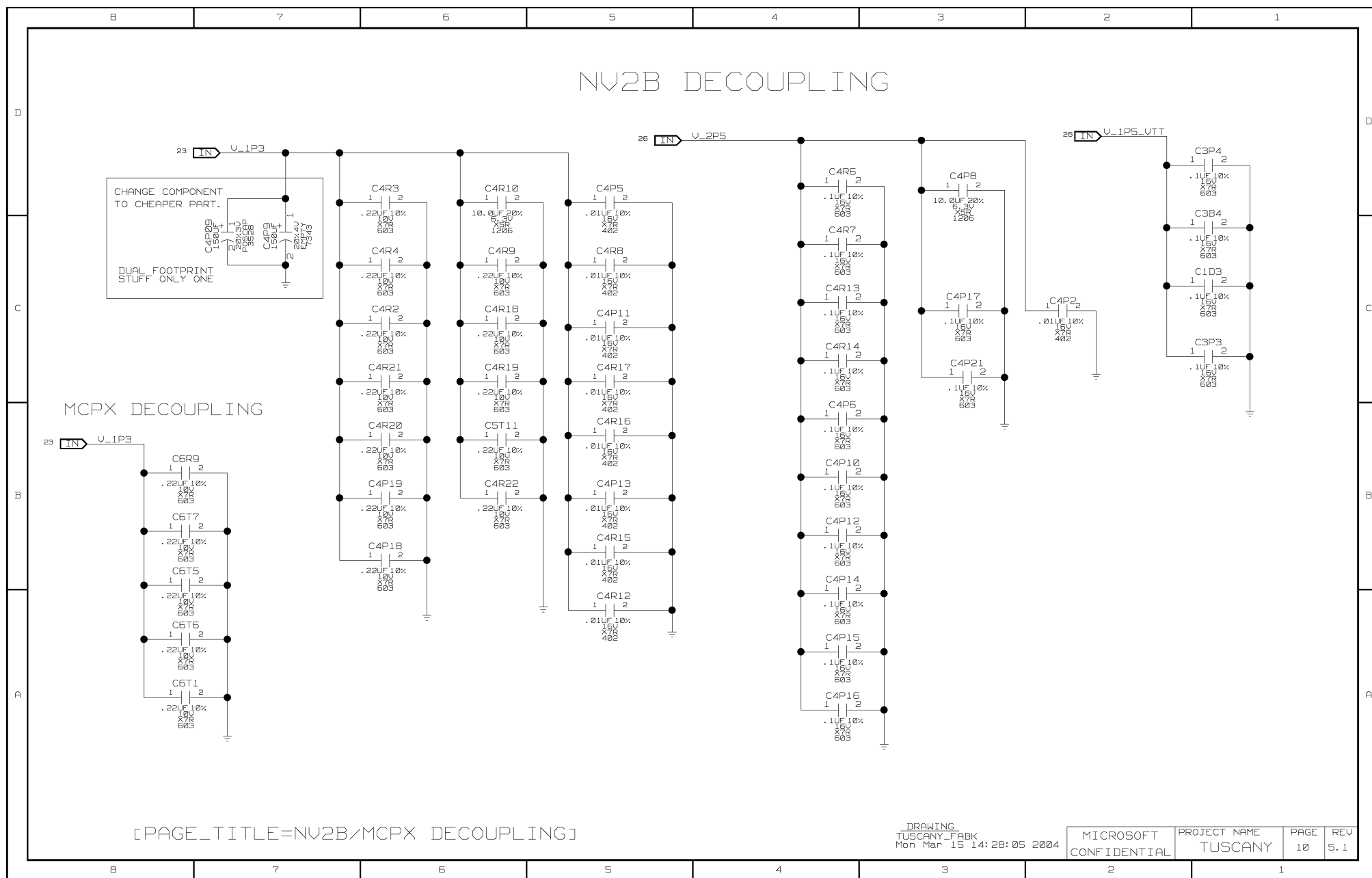
| TVD   |                       | DEFINITION                                                                                                               |
|-------|-----------------------|--------------------------------------------------------------------------------------------------------------------------|
| [7]   | 0*<br>1               | ENABLE INTERNAL LDT TERMINATION<br>DISABLE INTERNAL LDT TERMINATION                                                      |
| [6]   | 0*<br>1               | 13.5MHZ OR 16.6MHZ<br>14.31818MHZ                                                                                        |
| [5:4] | 00*<br>01<br>10<br>11 | USE FSB FREQUENCY BASED ON TVD[3:2]<br>USE INTERNAL PROGRAMMED VALUE A<br>USE INTERNAL PROGRAMMED VALUE B<br>FORCE 66MHZ |
| [3:2] | 00<br>01*<br>10<br>11 | NA<br>FSB FREQ=133MHZ FOR 16.6MHZ INPUT CLK<br>NA<br>NA                                                                  |
| [1:0] | 00*<br>01<br>10<br>11 | BITS [1:0] ARE UNUSED ON TUSCANY<br>USED TO BE MEMORY DRIVE STRENGTH SETTINGS<br>NOW ALL SETTINGS READ FROM THE EEPROM   |

\* = CURRENT SETTING

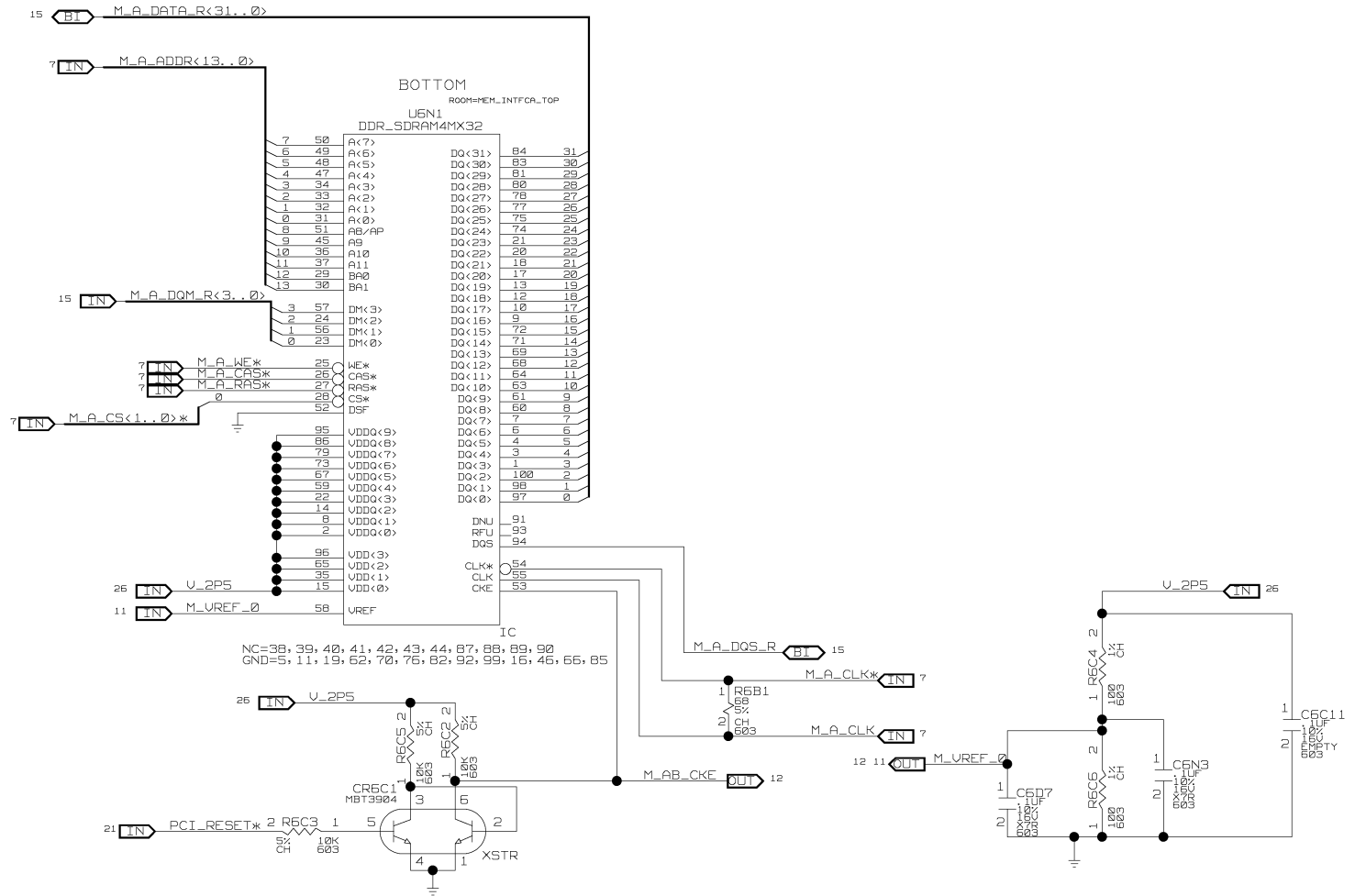
[PAGE\_TITLE=NV2B STRAPPING]

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Mon Mar 15 14:27:53 2004

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| MICROSOFT<br>CONFIDENTIAL | PROJECT NAME<br>TUSCANY | PAGE<br>9 | REV<br>5.1 |
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## MEMORY INTERFACE PARTITION A



[PAGE\_TITLE=DDR SDRAM (PARTITION A)]

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Mon Mar 15 14:28:17 2004

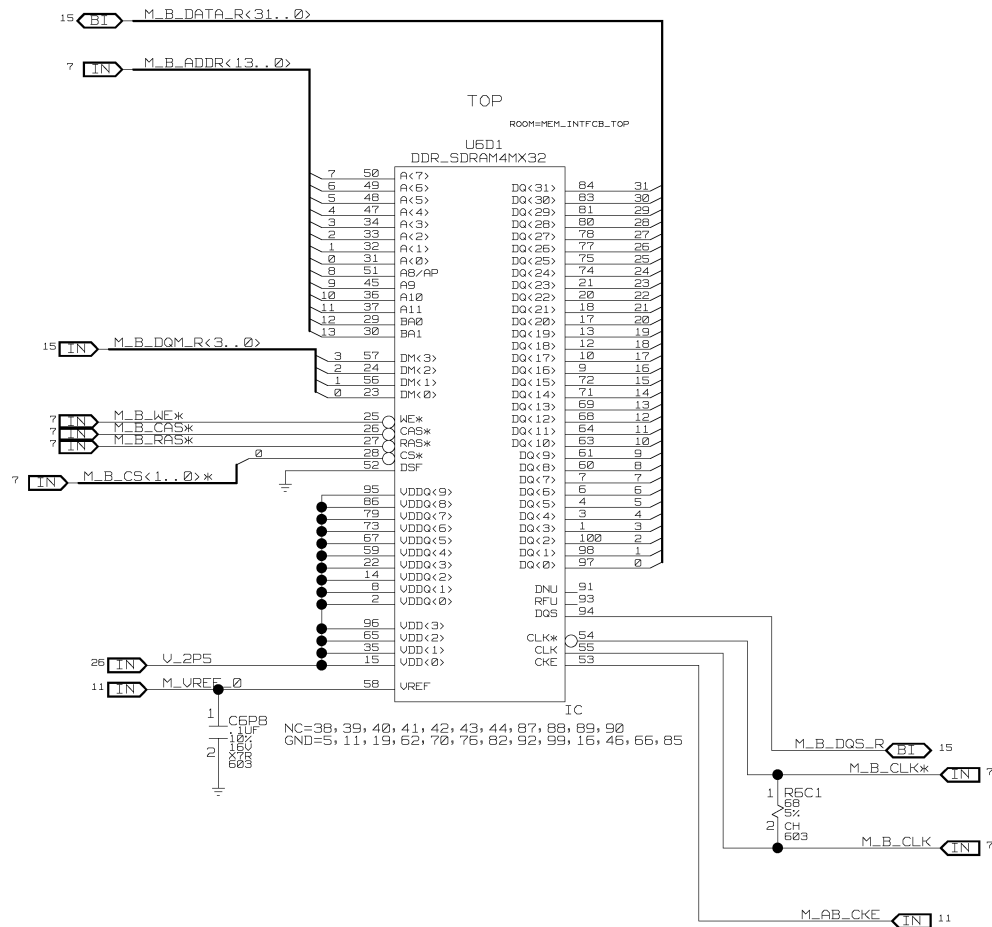
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## MEMORY INTERFACE PARTITION B



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Mon Mar 15 14:28:30 2004

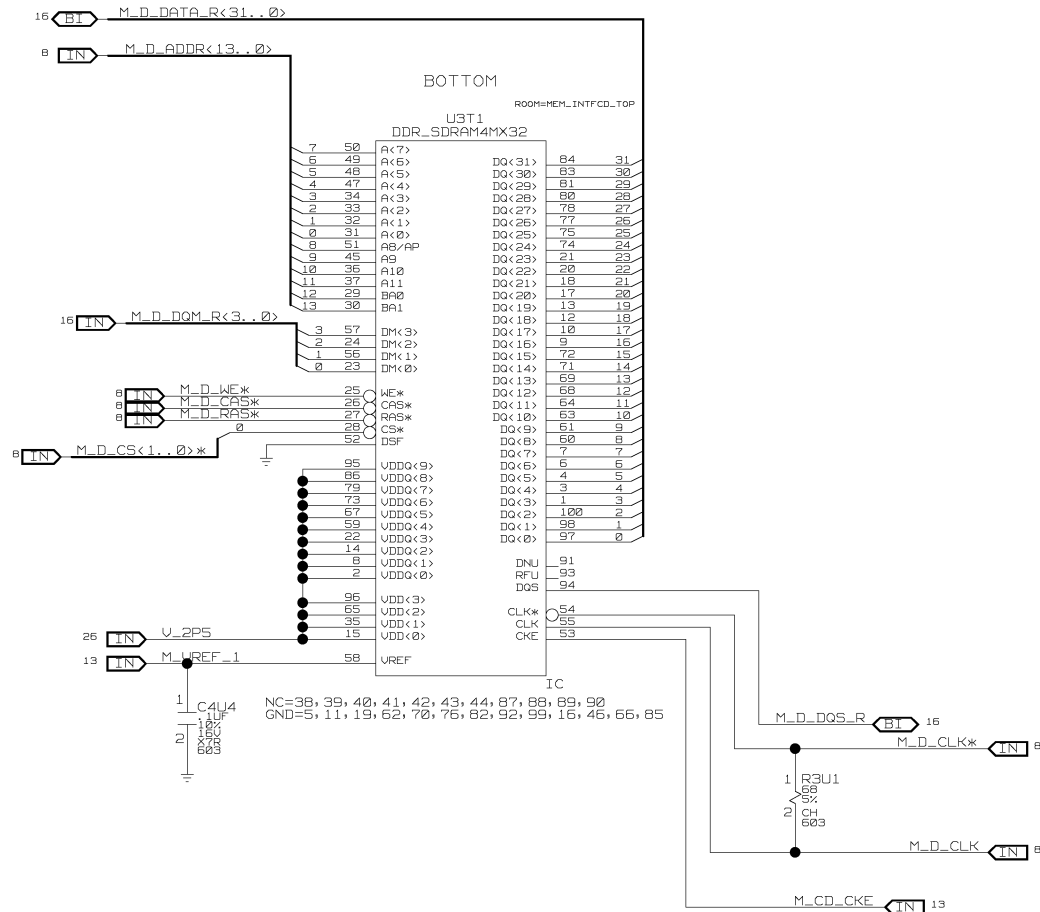
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| MICROSOFT<br>CONFIDENTIAL | PROJECT NAME<br>TUSCANY | PAGE<br>12 | REV<br>5.1 |
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[PAGE_TITLE=DDR SDRAM (PARTITION C)]
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TUSCANY\_FABK  
Mon Mar 15 14:28:47 2004

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| MICROSOFT<br>CONFIDENTIAL | PROJECT NAME<br>TUSCANY | PAGE<br>13 | REV<br>5.1 |
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## MEMORY INTERFACE PARTITION D

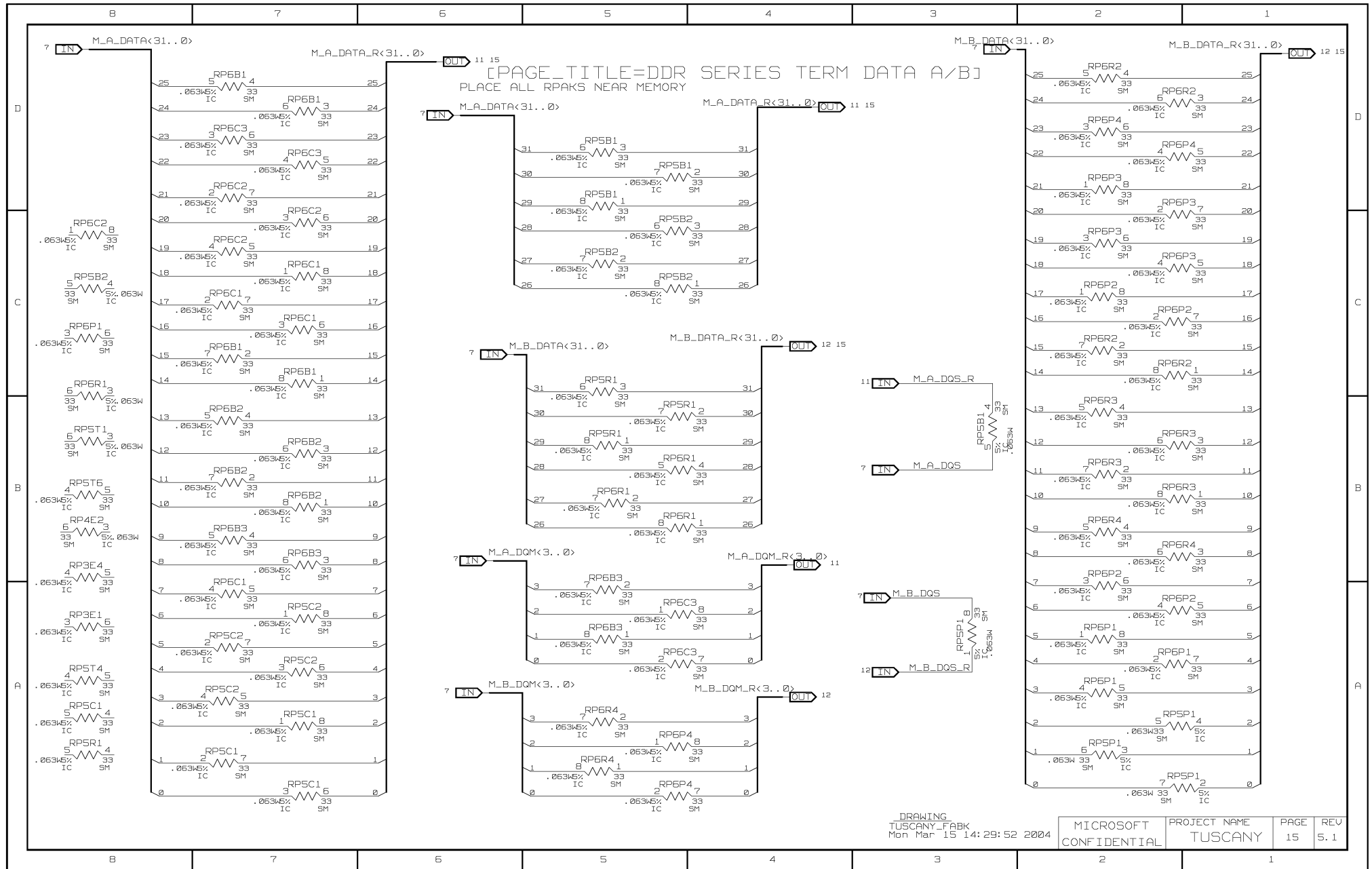


[PAGE\_TITLE=DDR SDRAM (PARTITION D)]

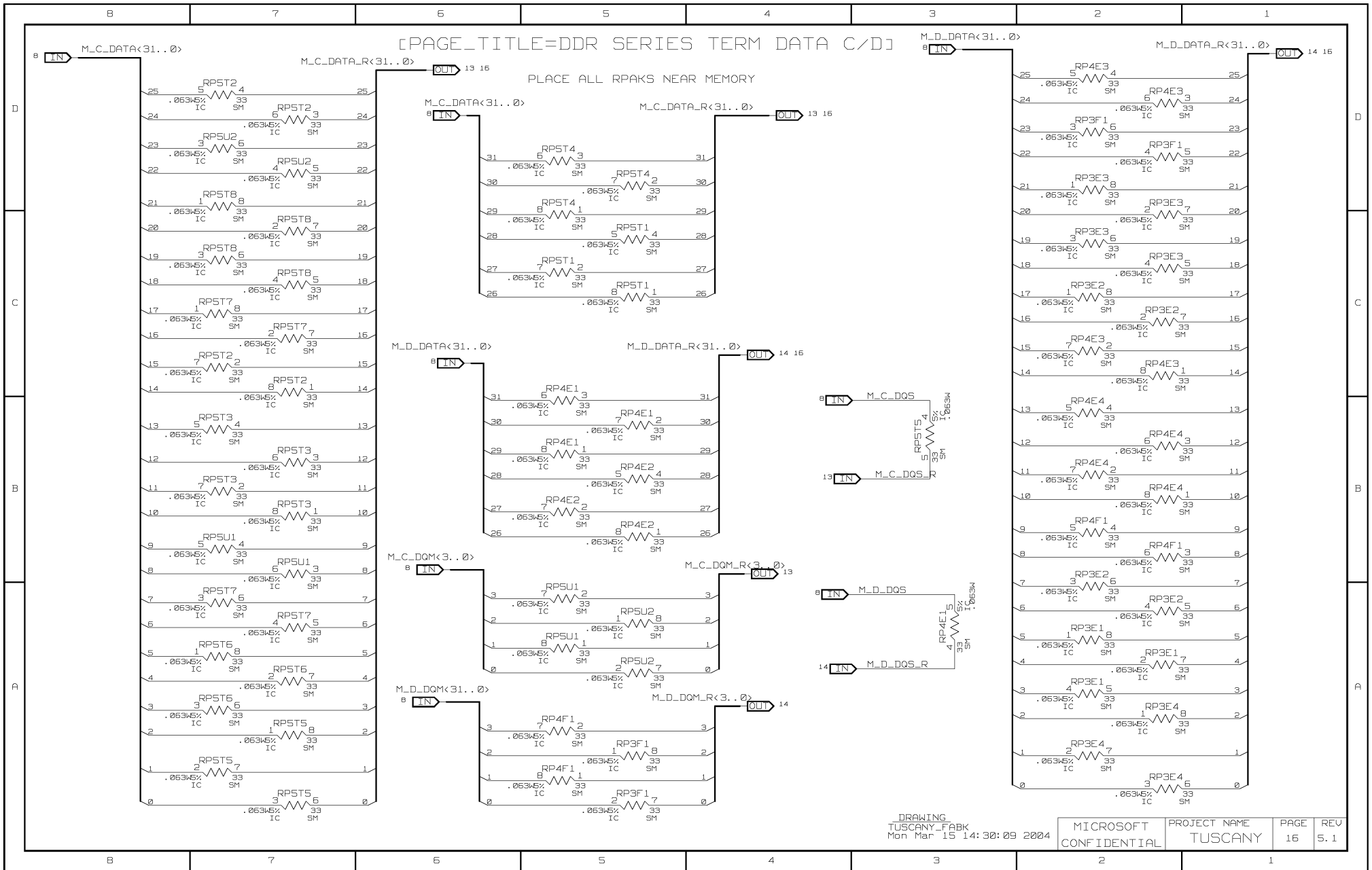
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Mon Mar 15 14:29:34 2004

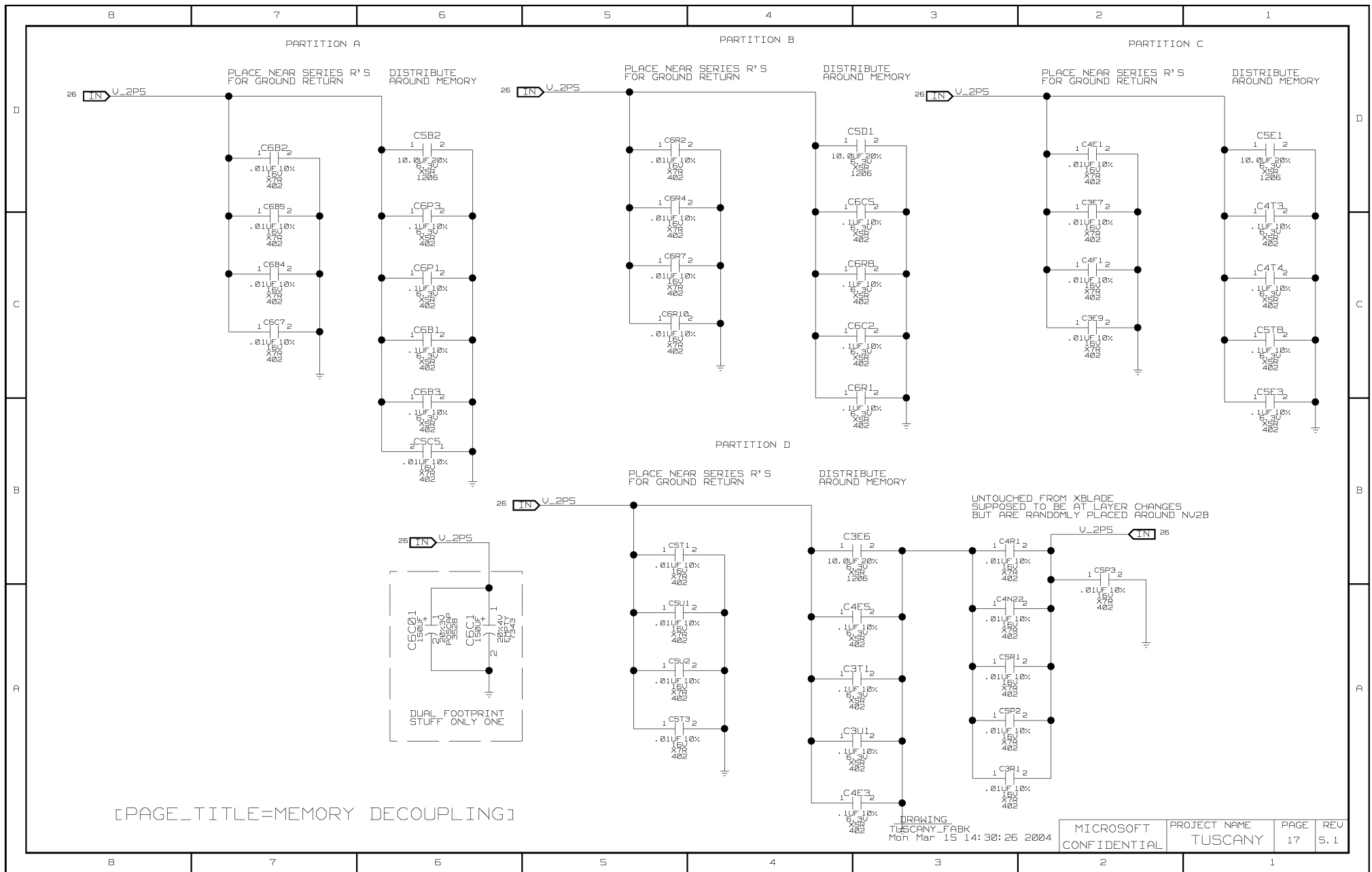
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| PROJECT NAME | PAGE | REV |
| TUSCANY      | 14   | 5.1 |



## [PAGE\_TITLE=DDR SERIES TERM DATA C/D]

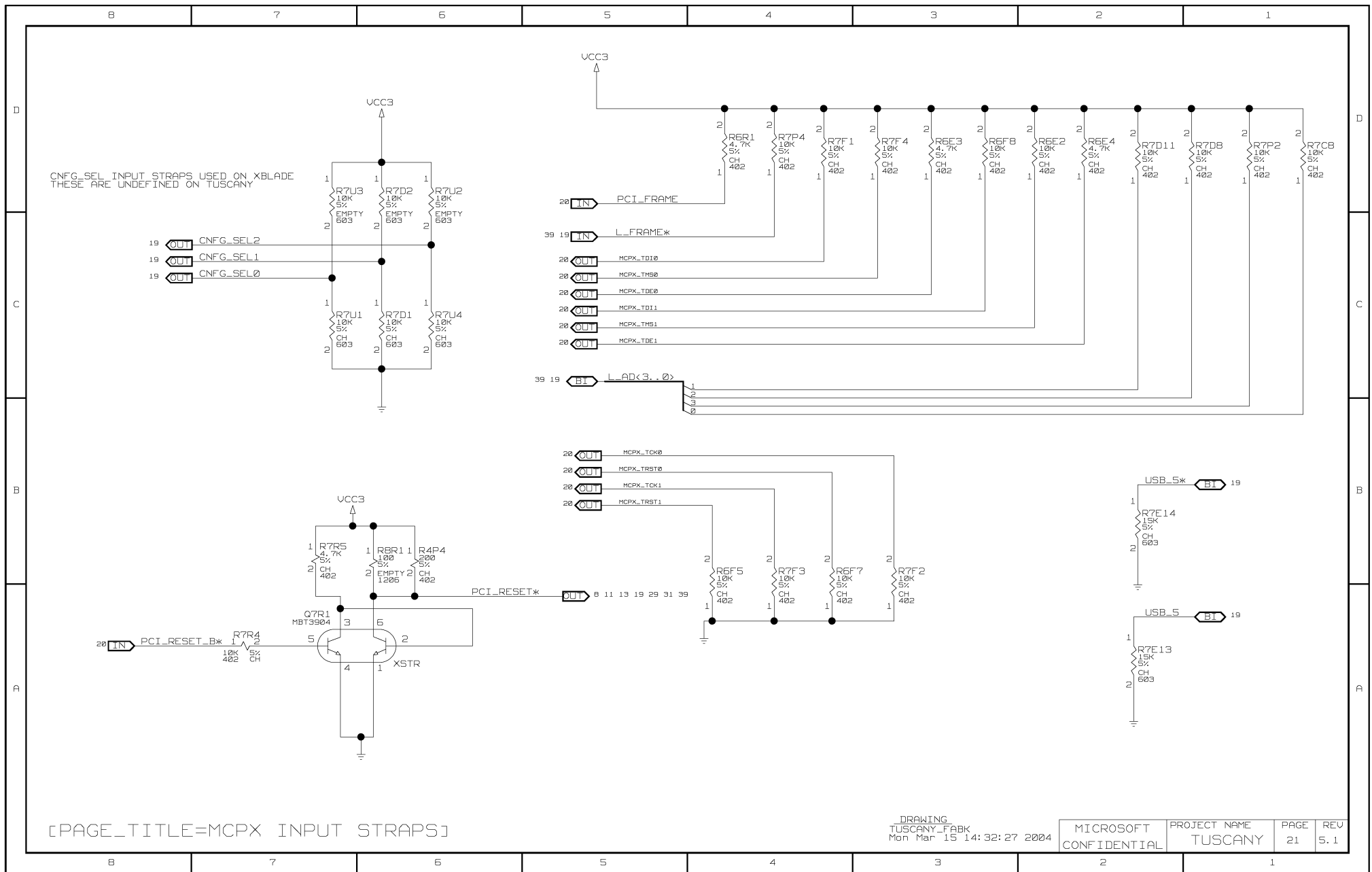




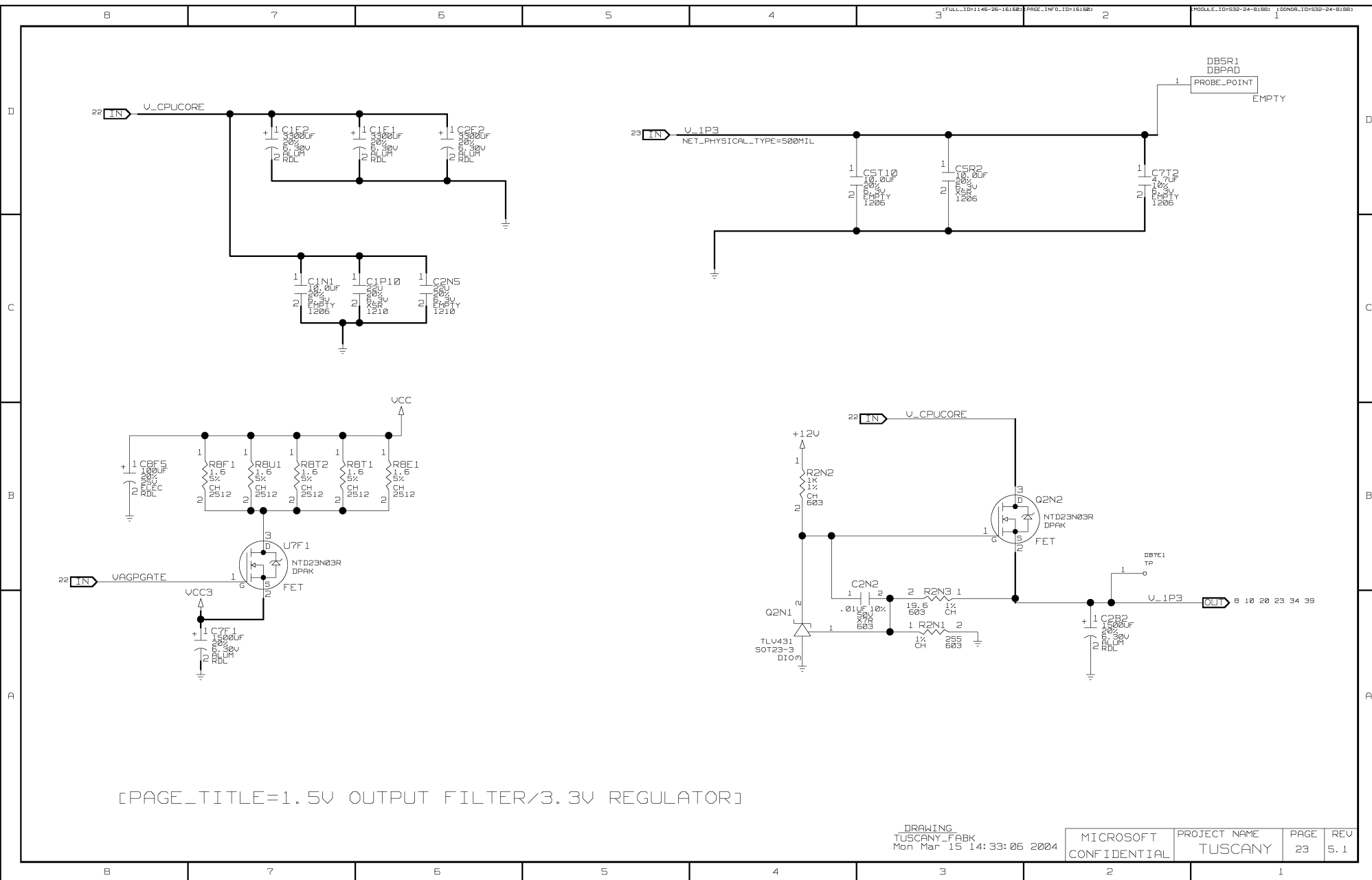




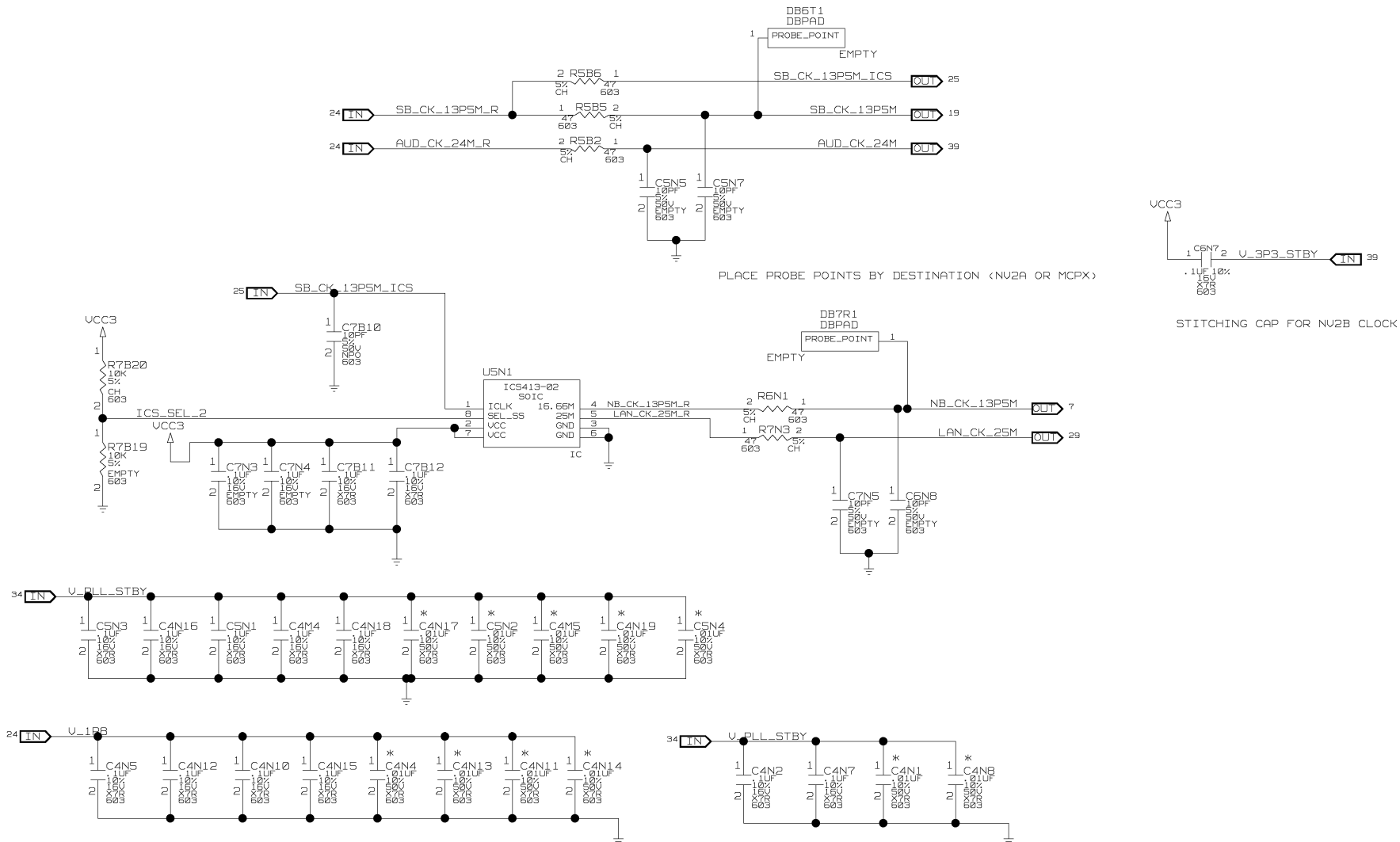








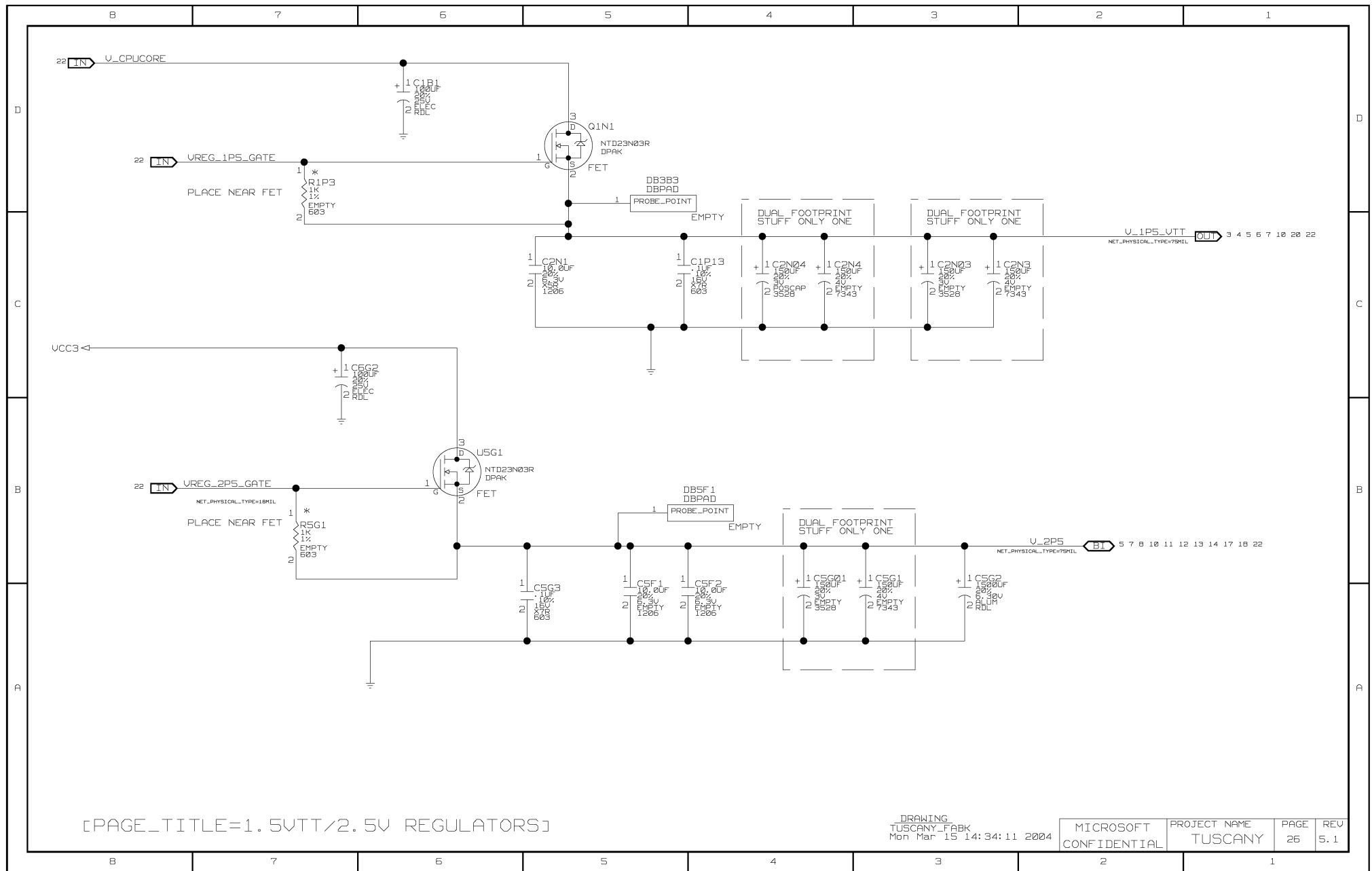


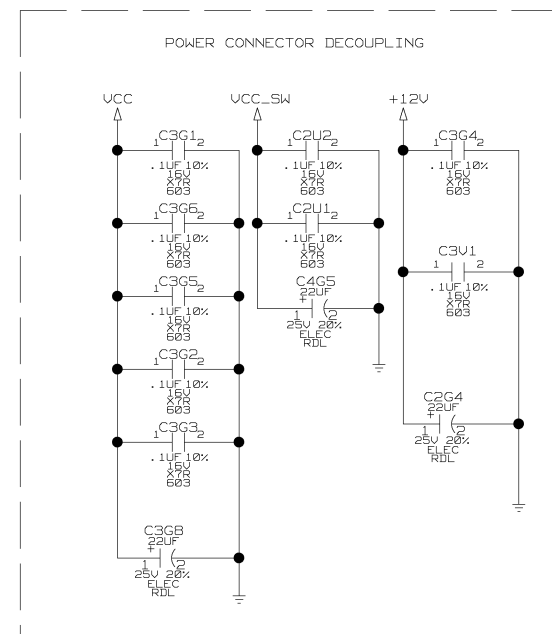
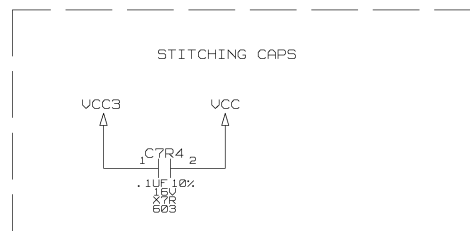
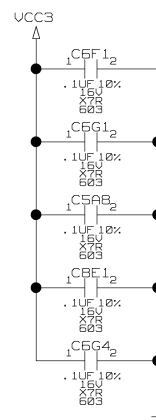
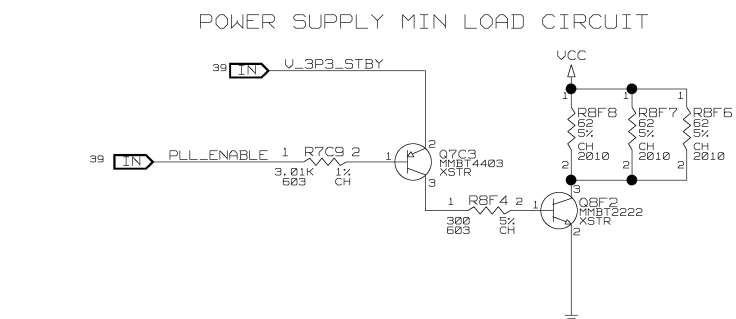
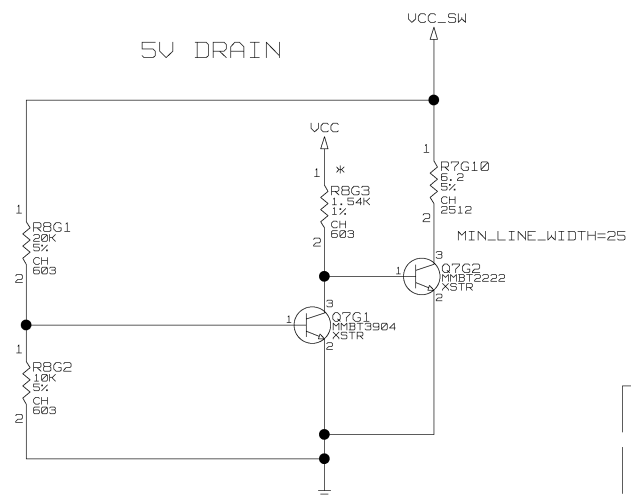
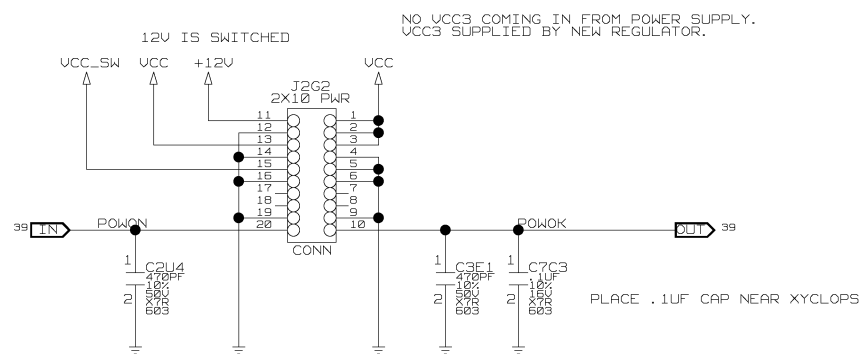


[PAGE\_TITLE=XCALIBUR DECOUPLING/CLOCKS]

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Mon Mar 15 14:33:49 2004

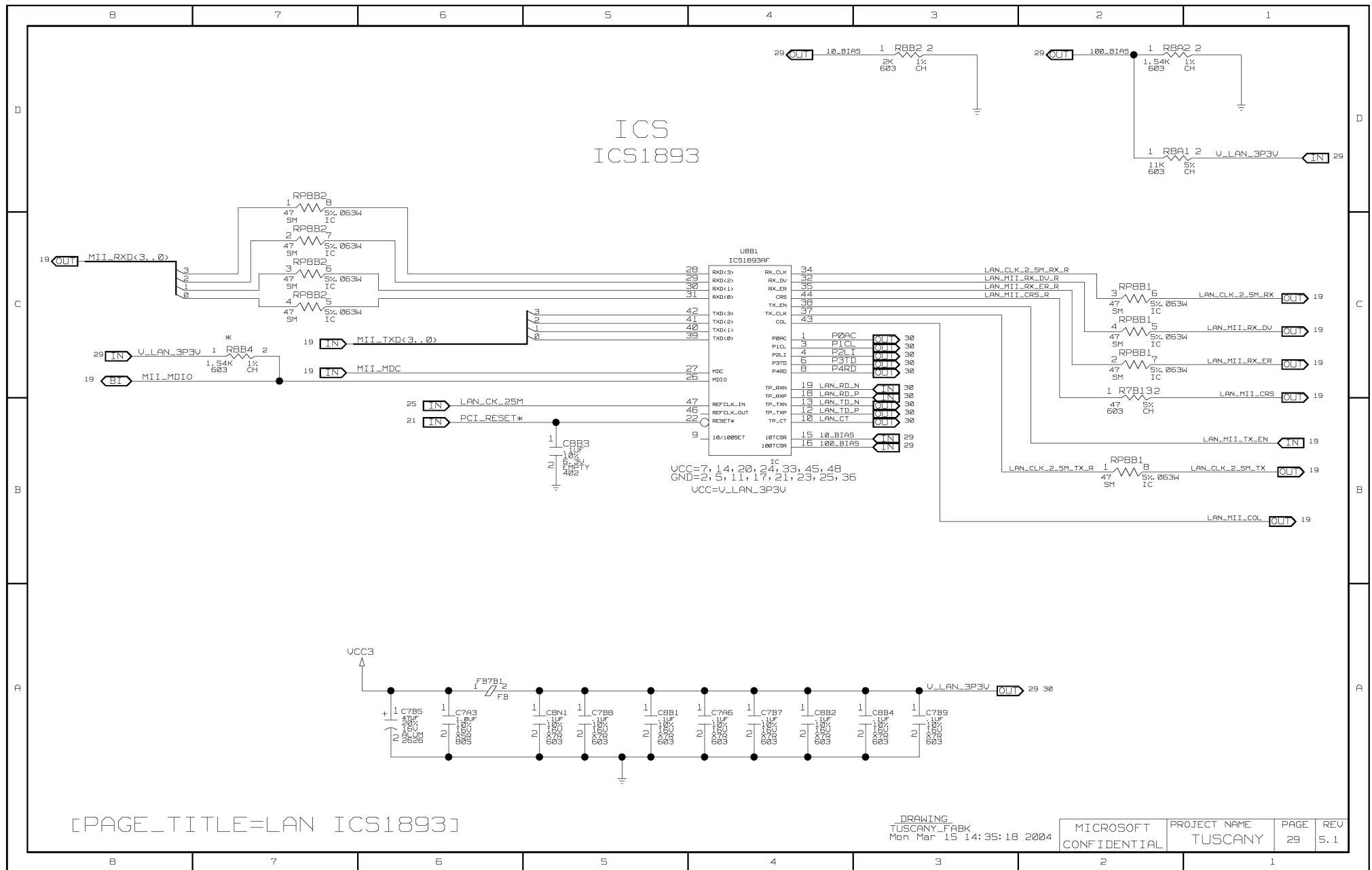
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[PAGE\_TITLE=POWER CONNECTOR/5V DRAIN]

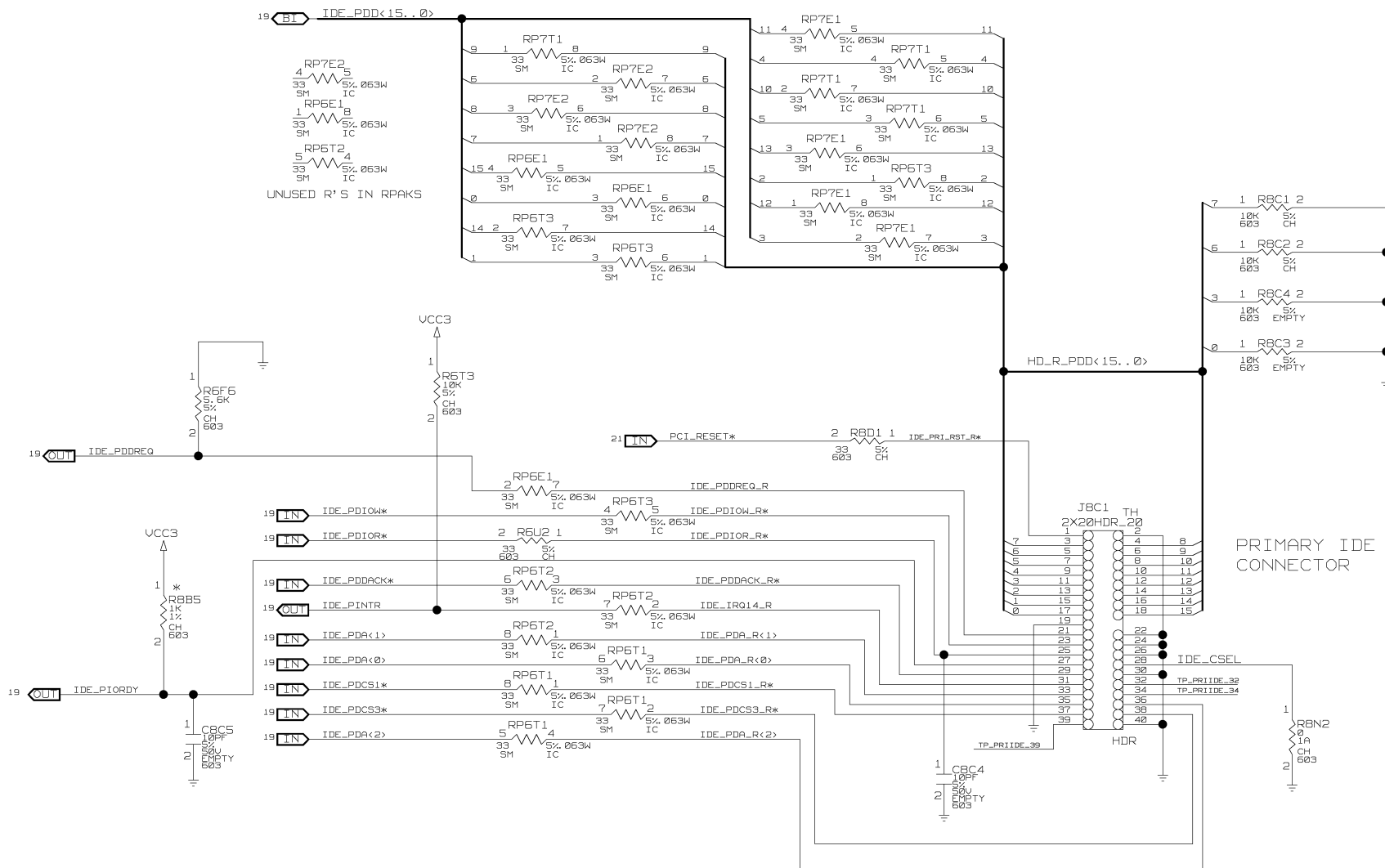


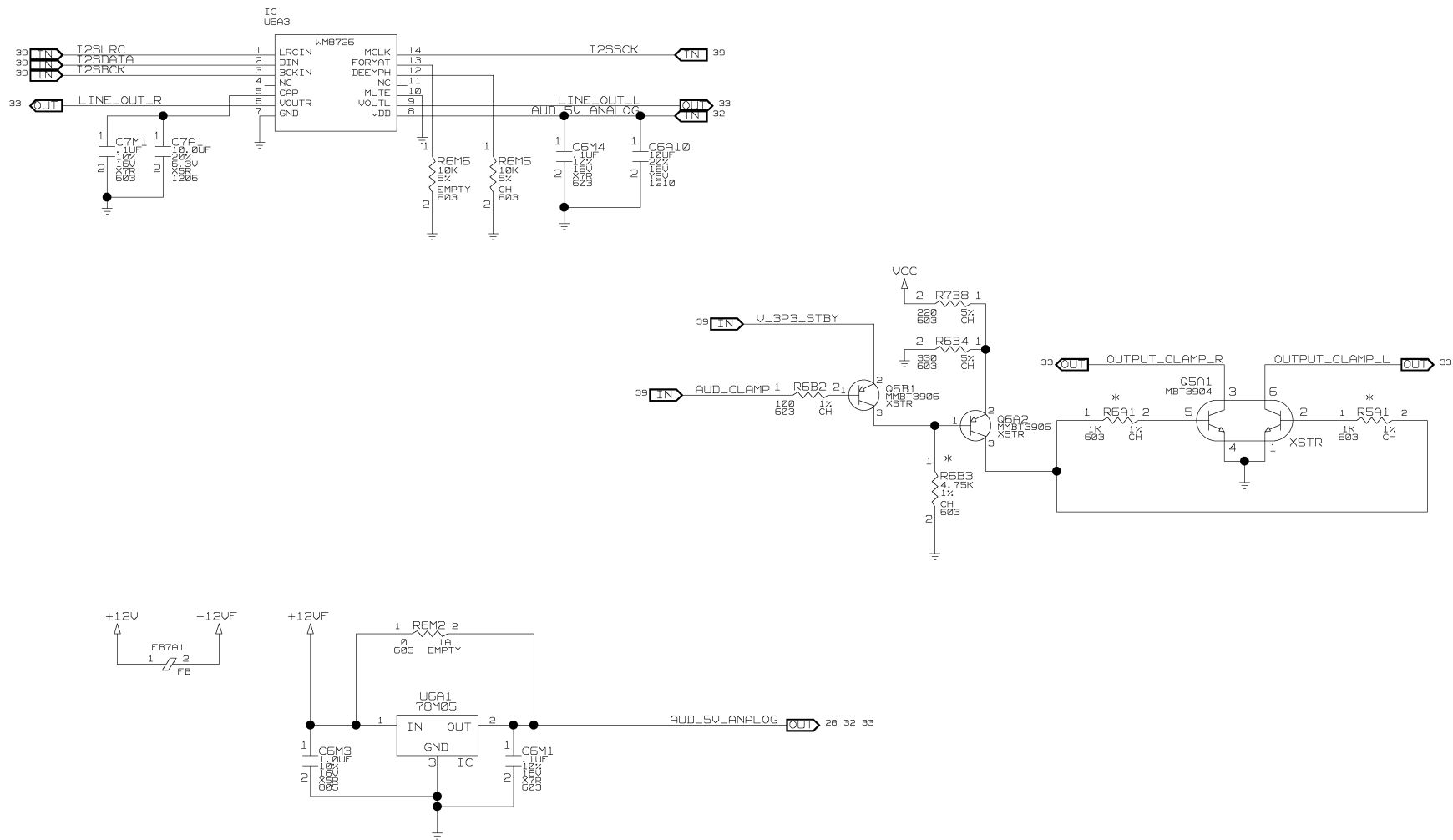


[PAGE\_TITLE=LAN JACK/EEPROM/THERMAL SENSOR]

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TUSCANY\_FABK  
Mon Mar 15 14:35:42 2004

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[PAGE\_TITLE=AUDIO CODEC/AUDIO VREG]

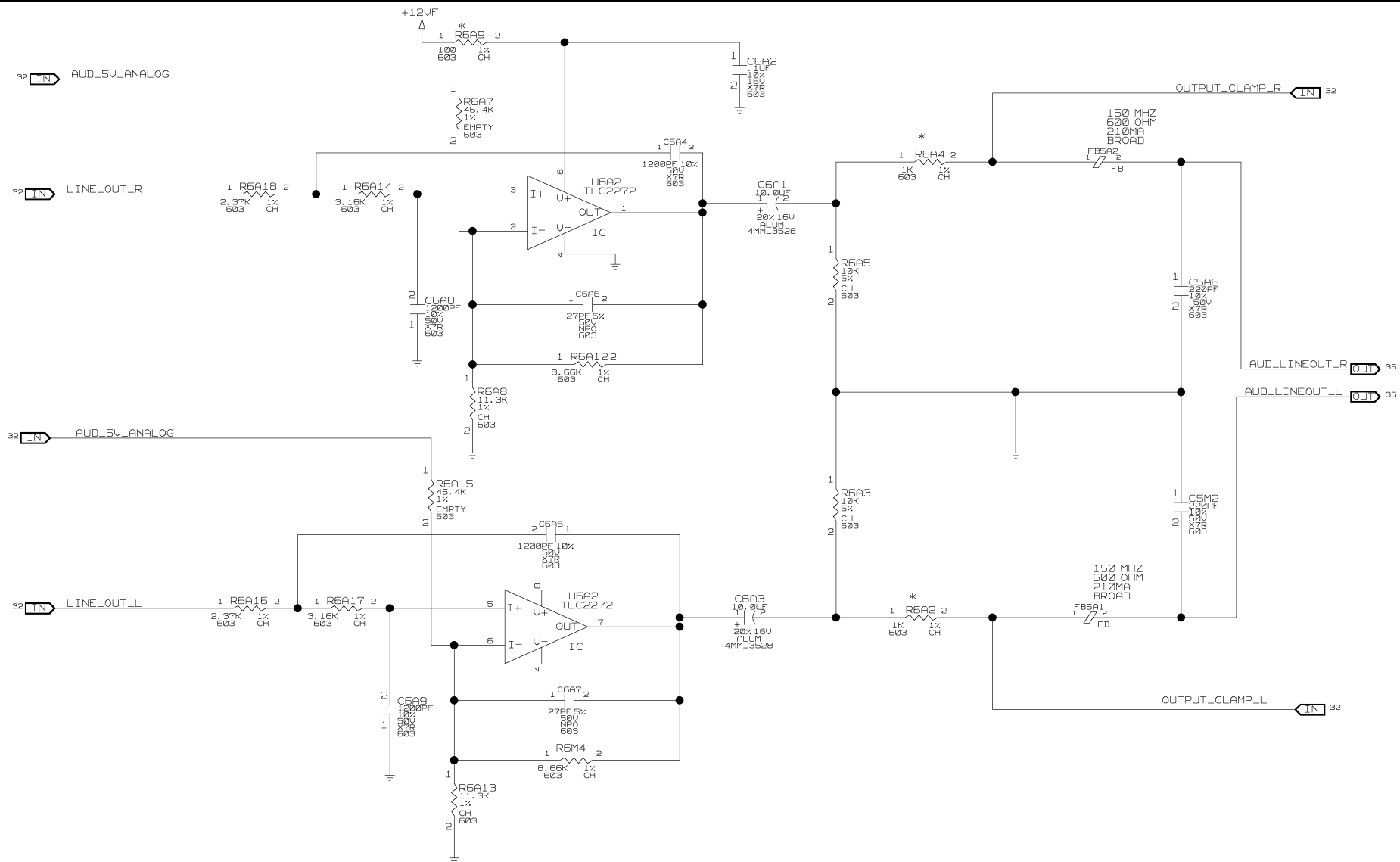
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Mon Mar 15 14:36:30 2004

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[PAGE\_TITLE=AUDIO AMPLIFIER]

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TUSCANY\_FABK  
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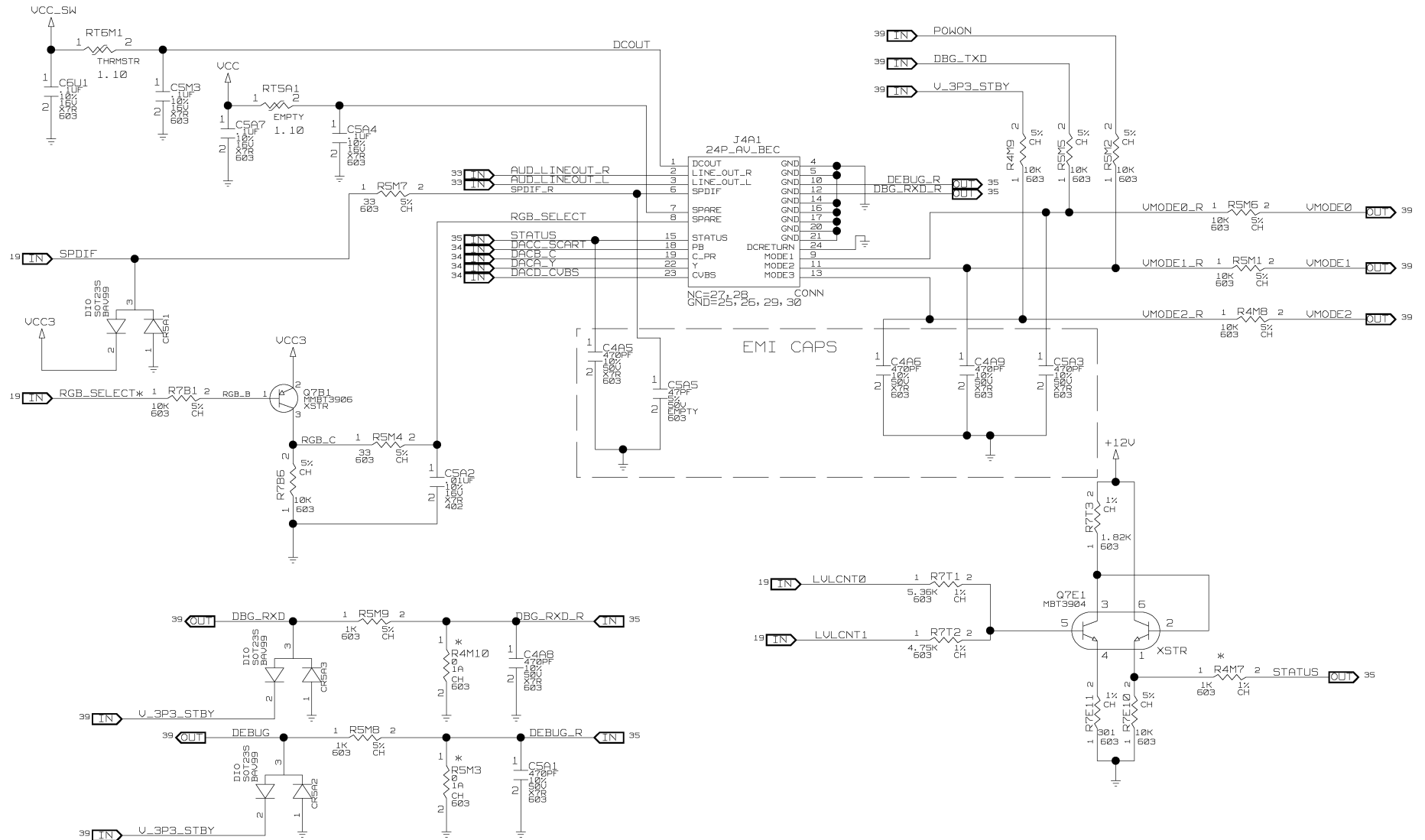
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| DAC | TVOUT       | SCART | HDTV |
|-----|-------------|-------|------|
| A   | Y (LUMA)    | G     | Y    |
| B   | C (CHROMA)  | R     | PR   |
| C   | N/A         | B     | PB   |
| D   | CVBS (COMP) | COMP  | N/A  |

[PAGE\_TITLE=VIDEO FILTERING/MISC]

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TUSCANY\_FABK  
Mon Mar 15 14:37:26 2004

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| 4 | MICROSOFT<br>CONFIDENTIAL | PROJECT NAME<br>TUSCANY | PAGE<br>34 | REV<br>5.1 |
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[PAGE\_TITLE=AV CONNECTOR]

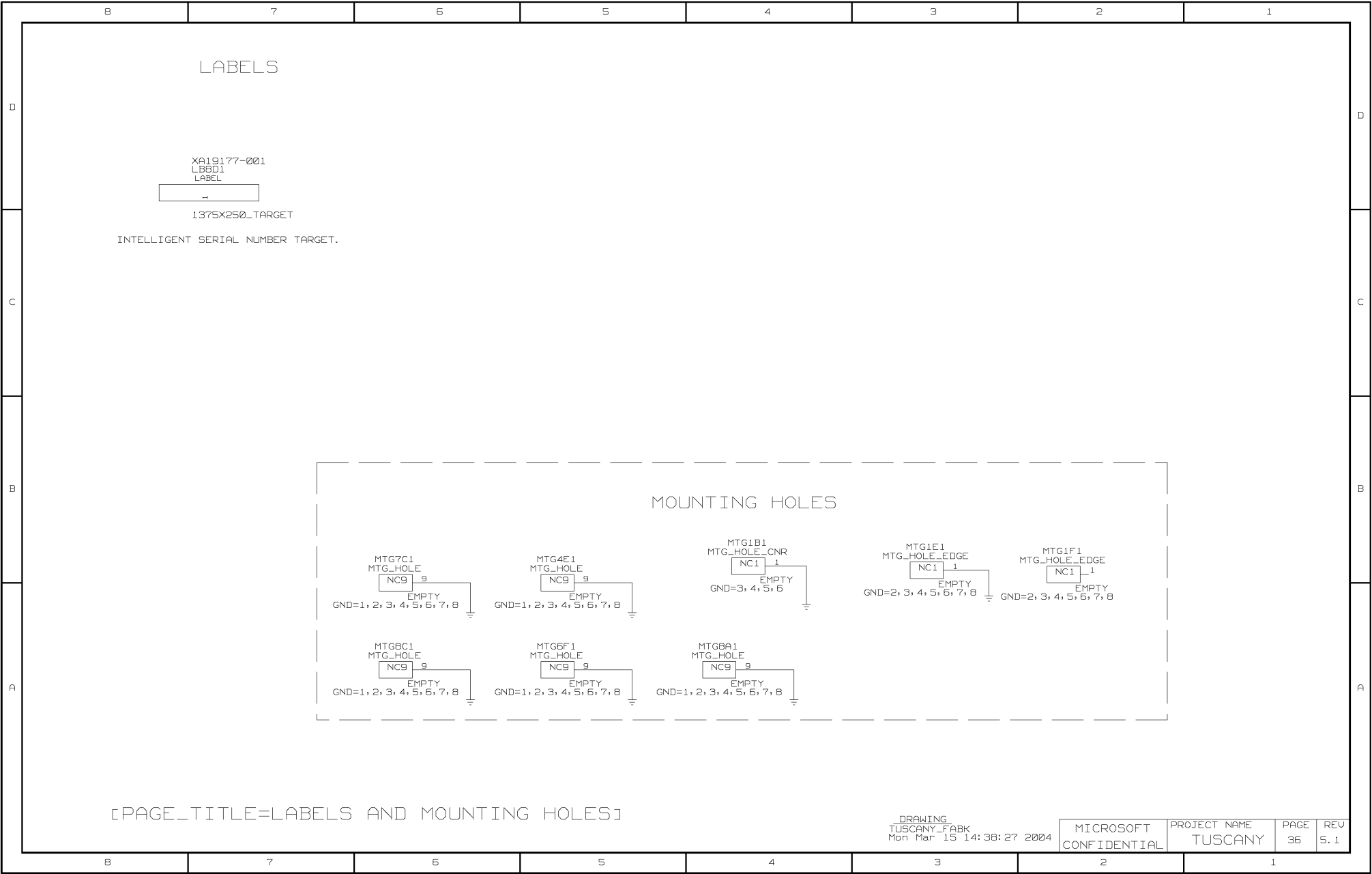
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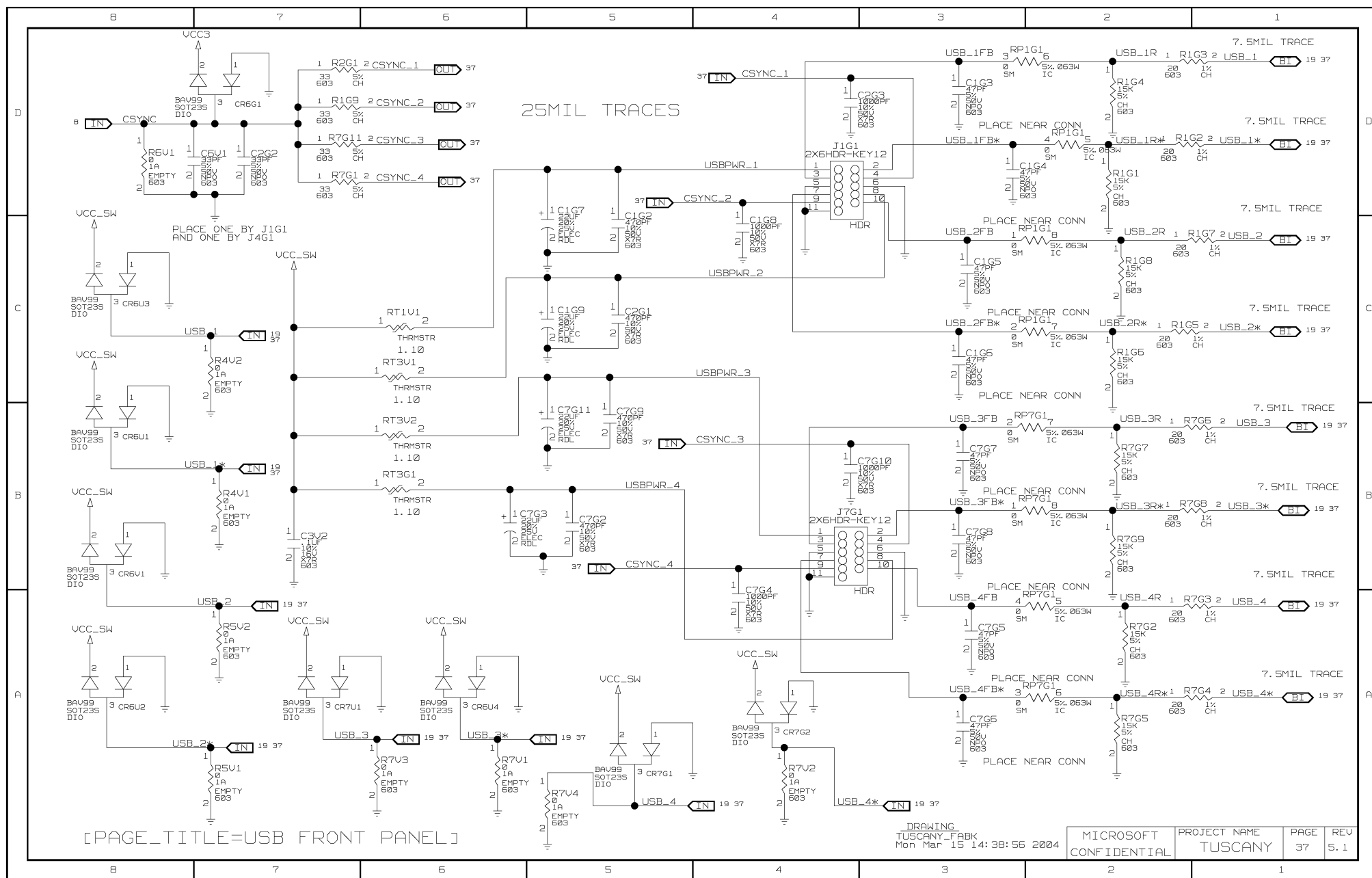
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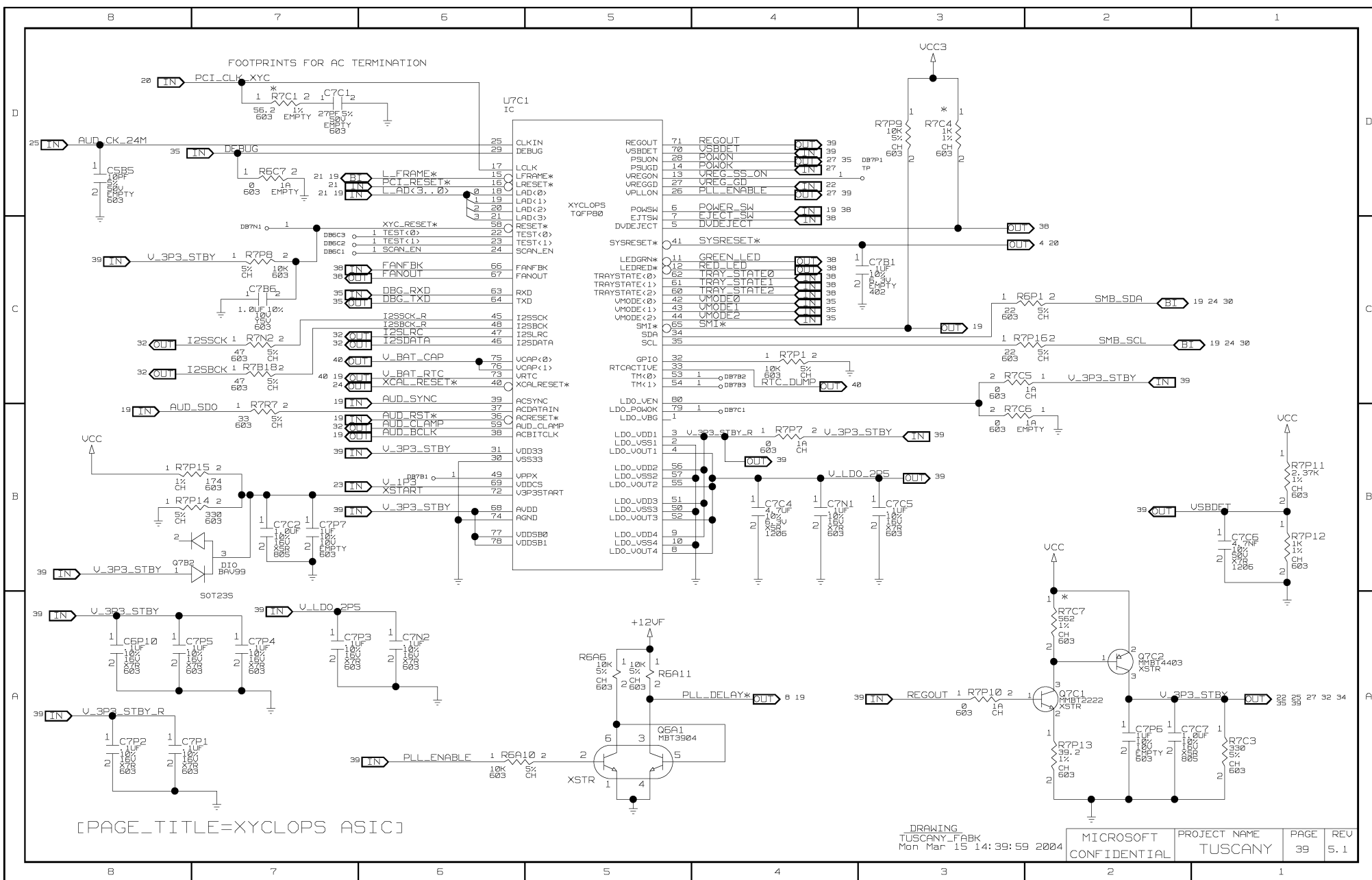


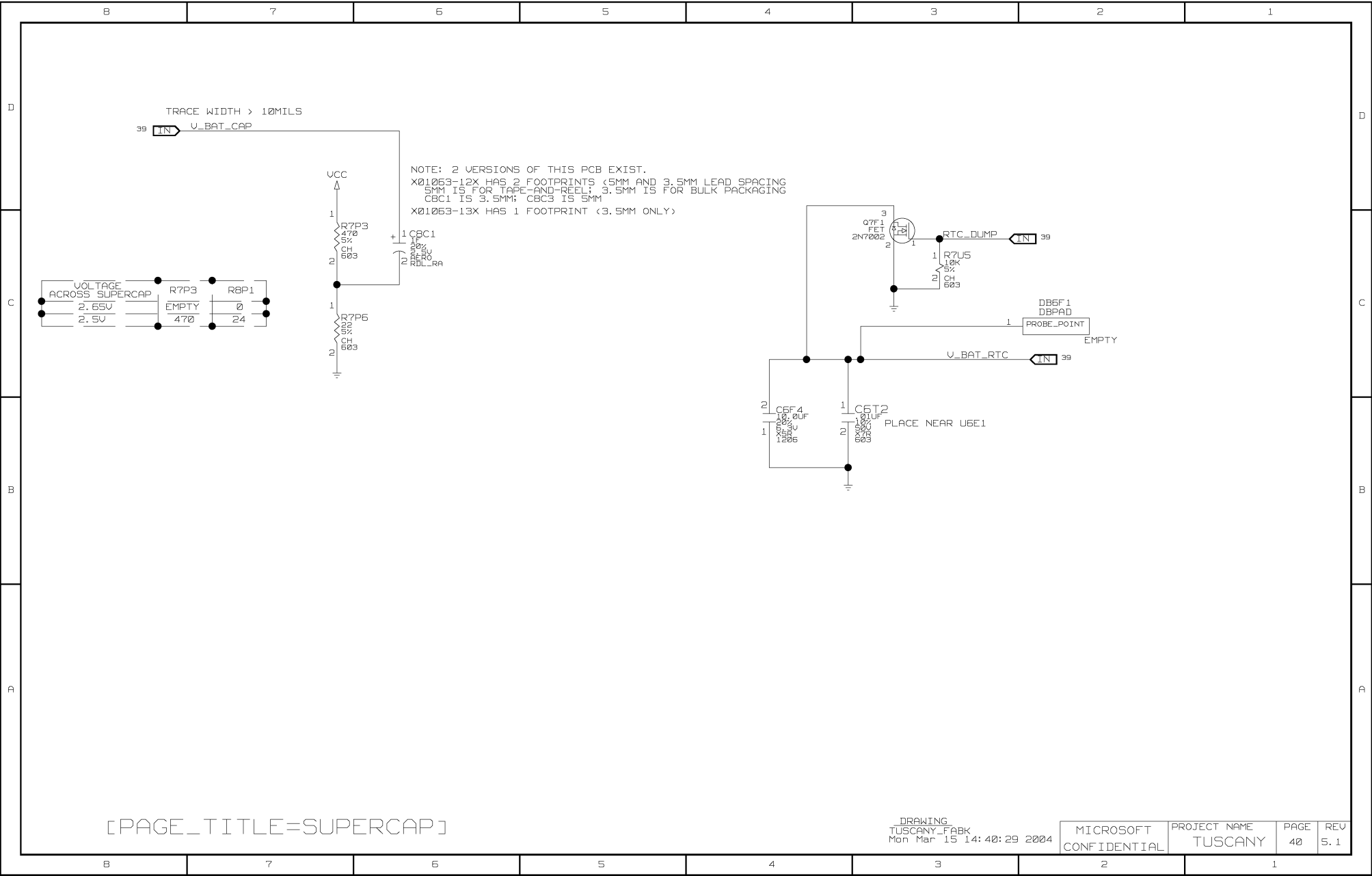
FAN CONTROL  
FRONT PANEL CONN  
DVD PWR CNTL CONN

[PAGE\_TITLE=FAN/DVD PWR/FRONT PANEL]

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| MICROSOFT<br>CONFIDENTIAL | PROJECT NAME<br>TUSCANY | PAGE<br>38 | REV<br>5.1 |
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|                        | 8                                                    | 7 | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 2 | 1 |                         |            |            |
| D                      | *** Signal Cross-Reference for the entire design *** |   | GREEN_LED_C 3BA4<<br>GREEN_LED_R 3BA6<<br>HD_R_P0D0<15..0> 31C3<br>HLA*(31..3) 30A<> 7D5<><br>HLA20M* 20D5> 3B3<<br>HLA20M_R* 3B5<<br>HLA0S* 4C1<> 7C5<><br>HLBNR* 4B5<> 7C5<><br>HLBPR1* 7C5> 4B5<<br>HLCPU_RST* 7C5> 20D4<<br>HLCPU_RST_R* 7C4> 4C7<<br>HLD*(63..0) 3D8<> 7D8<><br>HLD0S* 4B1<> 7C5<><br>HLDEFER* 7C5> 4B1<<br>HLDRDY* 4B1<> 7C5<><br>HLFERR* 3B3> 20D5<<br>HLHIT* 4B1<> 7C5<><br>HLHITM* 4B1<> 7B5<><br>HLIGNNE* 20D5> 3B3<<br>HLINIT* 4C5<<br>HLINTR 20D5> 4B7<<br>HLINTR_R 4B5<<br>HLOCK* 4B5<> 7B5><br>HLM1 20D5> 4B7<<br>HLM1_R 4B5<<br>HLPREO* 3B5<<br>HLREQ*(4..0) 4B5<> 7A8<><br>HLRS*(2..0) 7B5<> 4B1<<br>HLSM1* 4A1> 4B6<<br>HLSM1_R* 20D4> 4A3<<br>HLTCK 3B5<<br>HLTDI 3B5<<br>HLTHERM 5C7> 24B8< 30B4<<br>HLTHERMP 24CB> 5C7< 30B4<<br>HLTMS 3B5<<br>HLTRDY* 7B5<> 4B1<<br>HLTRST* 3B5<<br>I2SBCK 39CB> 32D8<<br>I2SBCK_R 39C6<><br>I2SDATA 39C7> 32D8<<br>I2SLRC 39C7> 32D8<<br>I2SSCK 39CB> 32D5<<br>I2SSCK_R 39C6<><br>ICS_SEL_2 25B8<<br>IDE_CSEL 31A2<<br>IDE_I0Q14_R 31B4><br>IDE_PDA<0> 31A7<<br>IDE_PDA<2..0> 19D4><br>IDE_PDA<1> 31B7<<br>IDE_PDA<2> 31A7<<br>IDE_PDA_R<0> 31A5<<br>IDE_PDA_R<1> 31B4<<br>IDE_PDA_R<2> 31A4<<br>IDE_PDCS1* 19D4> 31A7<<br>IDE_PDCS1_R* 31A5<<br>IDE_PDCS3* 19D4> 31A7<<br>IDE_PDCS3_R* 31A4<<br>IDE_PDD<15..0> 19D4<> 31D7<><br>IDE_PDDACK* 19D4> 31B7<<br>IDE_PDDACK_R* 31B5<<br>IDE_PDDREQ 31B8> 19D4<<br>IDE_PDDREQ_R 31B5<<br>IDE_PD1OR* 19D4> 31B7<<br>IDE_PD1OR_R* 31B5<<br>IDE_PD1OW* 19D4> 31B7<<br>IDE_PD1OW_R* 31B5<<br>IDE_P1INTR 31B7> 19D4<<br>IDE_P1ORDY 31A8> 19D4<<br>IDE_PRI_RST* 31B3<<br>KBRSTIN* 20C5<<br>LAN_CLK_25M 25B3> 29B6<<br>LAN_CLK_25M_R 25B5<><br>LAN_CLK_2_5M_RX 29C1> 19B7<<br>LAN_CLK_2_5M_RX_R 29C3><<br>LAN_CLK_2_5M_TX 29B1> 19B7<<br>LAN_CLK_2_5M_TX_R 29B3<><br>LAN_CT 29B3> 30B8< |   | LAN_CT_R 30B7<<br>LAN_MII_COL 29B1> 19B7<<br>LAN_MII_CRS 29B1> 19B7<<br>LAN_MII_CRS_R 29C3<><br>LAN_MII_RX_DV 29C1> 19B7<<br>LAN_MII_RX_DV_R 29C3<><br>LAN_MII_RX_ER 29C1> 19B7<<br>LAN_MII_RX_ER_R 29C3<><br>LAN_MII_TX_EN 19B7> 29B1<<br>LAN_RD_N 30CB> 29C3<<br>LAN_RD_P 30CB> 29B3<<br>LAN_TD_N 29B3> 30CB<<br>LAN_TD_N_R 30D7<<br>LAN_TD_P 29B3> 30D8<<br>LAN_TD_P_R 30D8<<br>LDT_RESET* 8A4> 20A4<<br>LDT_RXD*(B..0) 20A4> 8B5<<br>LDT_RXD*(B..0) 20A8> 8C5<<br>LDT_RX_CLK 20A7> 8B2<<br>LDT_RX_CLK* 20A4> 8B2<<br>LDT_TXD*(B..0) 8B4> 20B4<<br>LDT_TXD*(B..0) 8C5> 20BB<<br>LDT_TX_CLK 8B2> 20A7<<br>LDT_TX_CLK* 8B2> 20A4<<br>LINE_OUT_LL 32D5> 33B8<<br>LINE_OUT_R 32D8> 33D8<<br>LULCNT 35B3<<br>LULCNT0 19C4> 35B4<<br>LULCNT1 19C4> 35A4<<br>L_AD*(3..0) 19A4<> 19D7<> 21C5<> 39D7<<br>L_FRAME* 19D7> 39D7<> 19A4< 21C5<<br>L_SERIRQ 19A1> 19D8<<br>MCPX_TCK0 21B5> 20C5<<br>MCPX_TCK1 21B5> 20C5<<br>MCPX_TDE0 21C5> 20C5<<br>MCPX_TDE1 21C5> 20C5<<br>MCPX_TD10 21C5> 20C5<<br>MCPX_TD11 21C5> 20C5<<br>MCPX_TMS0 21C5> 20C5<<br>MCPX_TMS1 21C5> 20C5<<br>MCPX_TRST0 21B5> 20C5<<br>MCPX_TRST1 21B5> 20C5<<br>MCP_3P3_DELAY 19A7<<br>MCP_VDD_PLL 19A5> 19B4<<br>MII_MDC 19B8> 29C7<<br>MII_MDIO 19B7<> 29CB<><br>MII_RXD*(3..0) 29CB> 19B7<<br>MII_TXD*(3..0) 19B7> 19D2< 29C7<<br>M_AB_CKE 11A4> 12A4<<br>M_A_ADDR*(13..0) 7D4> 11D7<<br>M_A_CAS* 7C4> 11B7<<br>M_A_CLK 7C4> 11A3<<br>M_A_CLK* 7C1> 11A3<<br>M_A_CS*(1..0) 7C5> 11B7<<br>M_A_DATA*(31..0) 7D1<> 15D6< 15D8<<br>M_A_DATA_R*(31..0) 11D7<> 15D4> 15D6><br>M_A_DQM*(3..0) 7D4> 15B6<<br>M_A_DQM_R*(3..0) 15B4> 11C7<<br>M_A_DQ5 7C4<> 15B3<<br>M_A_DQ5_R 11A4<> 15C3<<br>M_A_RAS* 7C4> 11B7<<br>M_A_WE* 7C4> 11B7<<br>M_B_ADDR*(13..0) 7B4> 12D7<<br>M_B_CAS* 7A4> 12B7<<br>M_B_CLK 7A4> 12A4<<br>M_B_CLK* 7A1> 12A4<<br>M_B_CS*(1..0) 7A5> 12BB<<br>M_B_DATA*(31..0) 7B1<> 15C6< 15D3<<br>M_B_DATA_R*(31..0) 12D7<> 15C4> 15D1><br>M_B_DQM*(3..0) 7A4> 15A6<<br>M_B_DQM_R*(3..0) 15A4> 12C7<<br>M_B_DQ5 7A4<> 15A3<<br>M_B_DQ5_R 12A4<> 15A3<<br>M_B_RAS* 7A4> 12B7<<br>M_B_WE* 7A4> 12B7<<br>M_CD_CKE 13A4> 14A4<<br>M_C_ADDR*(13..0) 8D8> 13D7< | M_C_CAS* 8C7> 13B7<<br>M_C_CLK 8C7> 13A4<<br>M_C_CLK* 8B5> 13A4<<br>M_C_CS*(1..0) 8CB> 13B7<<br>M_C_DATA*(31..0) 8D5<> 16D6< 16D8<<br>M_C_DATA_R*(31..0) 13D7<> 16D4> 16D6><br>M_C_DQM*(3..0) 8CB> 16B6<<br>M_C_DQM_R*(3..0) 16B4> 13C7<<br>M_C_DQ5 8C7<> 16B4><br>M_C_DQ5_R 13A4<> 16B4<<br>M_C_RAS* 8C7> 13B7<<br>M_C_WE* 8C7> 13B7<<br>M_D_ADDR*(13..0) 8B8> 14D7<<br>M_D_CAS* 8A7> 14B7<<br>M_D_CLK 8A7> 14A3<<br>M_D_CLK* 8A5> 14A3<<br>M_D_CS*(1..0) 8AB> 14BB<<br>M_D_DATA*(31..0) 8B4<> 16C6< 16D3<<br>M_D_DATA_R*(31..0) 14D7<> 16C4> 16D1><br>M_D_DQM*(3..0) 8AB><br>M_D_DQM*(31..0) 16A6<<br>M_D_DQM_R*(3..0) 16A4> 14C7<<br>M_D_DQ5 8A7<> 16A4<<br>M_D_DQ5_R 14A4<> 16A4<<br>M_D_RAS* 8A7> 14B7<<br>M_D_WE* 8A7> 14B7<<br>M_VREF_0 11A3> 11B7> 12A7<<br>M_VREF_1 13A4> 13BB< 14A7<<br>NB_CK_13PSM 25B3> 7B5<<br>NB_CK_13PSM_R 25B5<<br>NV2A_3P3_DELAY 8A2<<br>NV2A_INTA* 8B2> 20C3<<br>NV2A_TEST 8B2<><br>NV2A_VREF_0 7C2<><br>NV2A_VREF_1 8C6<><br>OUTPUT_CLAMP_LL 32C1> 33A1<<br>OUTPUT_CLAMP_R 32C3> 33D1<<br>P0AC 29C3> 30BB<<br>P0AC_R 30B7<<br>P1CL 25C3> 30A8<<br>P2LI 29C3> 30A8<<br>P2LI_R 30A7<<br>P3TD 29C3> 30A8<<br>P4RD 29C3> 30A8<<br>PCI_CLK 20C4> 20B7<<br>PCI_CLK_AB20 20B7<<br>PCI_CLK_FB 20D5<<br>PCI_CLK_HDR 20B5> 19A4<<br>PCI_CLK_XYC 20B5> 39D8<<br>PCI_FRAME 20A1> 21D5<<br>PCI_PULLUP 19A3> 20A1><br>PCI_RESET* 21A5> BB1< 11A7< 13A7< 19A5< 29B6<<br>PCI_RESET_B* 31B5< 39D7<<br>20C3> 21A8<<br>PICD0 4B7<><br>PICD1 4BB<><br>PLLVD0 8A2<><br>PLL_C2B 39A5<<br>PLL_DELAY* 39A4> 8A4< 19AB<<br>PLLENABLE 39D4> 27D4> 39A7<<br>PLL_G2 39A5<<br>POWER_SW 19A1> 3BB3> 39C4<<br>POWER_SW_R 39B6<<br>POWOK 27C5> 39D4<<br>POWON 39D4> 27CB> 35D4<<br>RED_LED 39C4> 38BB<<br>RED_LED2_R 38A7<<br>RED_LED_B 38B7<<br>RED_LED_C 38A8<<br>RED_LED_R 38B7<<br>REGOUT 39D4> 39A3<<br>RGB_B 35C7<<br>RGB_C 35B7<<br>RGB_SELECT 35C6<<br>RGB_SELECT* 19C4> 35CB<<br>ROM_D*(7..0) 20C7<> 20CB<> 20D8<><br>RSET_NV2A* 8A4<> |   |   |                         |            |            |
| C                      |                                                      |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| B                      |                                                      |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| A                      |                                                      |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| MICROSOFT CONFIDENTIAL |                                                      |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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|                        | 8                                                    | 7 | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 8               |                 | 7           |                                    | 6              |               | 5                                    |                    | 4 |                                                                                                                                                                                                                     | 3 |  | 2 |  | 1 |  |
|-----------------|-----------------|-------------|------------------------------------|----------------|---------------|--------------------------------------|--------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|--|---|--|---|--|
| D               | RTC_DUMP        |             | 39C4> 40C2<                        |                | USBPWR_3      |                                      | 37C5<              |   | <div>XCAL_GPIO&lt;3&gt; 24C6&lt;<br/>XCAL_HSYNC_OUT 24C3&lt;&gt;<br/>XCAL_RESET* 39C7&gt; 24C6&lt;<br/>XCAL_RST 24C6&gt; 24B8&lt;<br/>XCAL_VSYNC_OUT 24C3&lt;&gt;<br/>XSTART 39B6&lt;<br/>XYC_RESET* 39C6&lt;</div> |   |  |   |  |   |  |
|                 | RTC_X1          |             | 19B2> 19B4<                        |                | USBPWR_4      |                                      | 37B5<              |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | RTC_X0          |             | 19B2> 19B4<                        |                | USB_1         |                                      | 19D7> 37D1<> 37C7< |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | SB_CK_13PSM     |             | 25D3> 19B2<                        |                | USB_1*        |                                      | 19D7> 37D1<> 37B7< |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | SB_CK_13PSM_1CS |             | 25D3> 25C7<                        |                | USB_1FB       |                                      | 37D3<              |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | SB_CK_13PSM_LR  |             | 24D6> 25D7<                        |                | USB_1FB*      |                                      | 37D3<              |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | SCAN_EN         |             | 39C6<                              |                | USB_1R        |                                      | 37D2<              |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | SMB_SCL         |             | 19A4<> 19B2<> 24B7<> 30D3<> 39C1<> |                | USB_1R*       |                                      | 37D2<              |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 |                 |             | 30B2<                              |                | USB_2         |                                      | 19D7> 37C1<> 37A7< |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | SMB_SDA         |             | 19A1<> 19B2<> 24B7<> 30B1<> 30D1<> |                | USB_2*        |                                      | 19D7> 37C1<> 37A7< |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| C               |                 |             | 39C1<>                             |                | USB_2FB       |                                      | 37C3<              |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | SMC_CK_10M      |             | 24D6<>                             |                | USB_2FB*      |                                      | 37C3<              |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | SMI*            |             | 39C3> 19C4<                        |                | USB_2R        |                                      | 37C2<              |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | SPDIF           |             | 19B3> 35C8<                        |                | USB_2R*       |                                      | 37C2<              |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | SPDIF_R         |             | 35D6<                              |                | USB_3         |                                      | 19D7> 37B1<> 37A6< |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | SPKR_STRAP      |             | 19B5<                              |                | USB_3*        |                                      | 19D7> 37B1<> 37A5< |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | STATUS          |             | 35A1> 35C6<                        |                | USB_3FB       |                                      | 37B3<              |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | SYSRESET*       |             | 39C2> 4C7< 20D4<                   |                | USB_3FB*      |                                      | 37B3<              |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | SYSRESET_R*     |             | 4C6<                               |                | USB_3R        |                                      | 37B2<              |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | TEST<0>         |             | 39C6<                              |                | USB_3R*       |                                      | 37B2<              |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| B               | TEST<1>         |             | 39C6<                              |                | USB_4         |                                      | 19C7> 37A1<> 37A4< |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | TP_BGA2_A4      |             | 3C5<>                              |                | USB_4*        |                                      | 19C7> 37A1<> 37A3< |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | TP_BGA2_A5      |             | 3C5<>                              |                | USB_4FB       |                                      | 37A3<              |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | TP_BGA2_AA1     |             | 4C3<>                              |                | USB_4FB*      |                                      | 37A3<              |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | TP_BGA2_AA17    |             | 5C7<>                              |                | USB_4R        |                                      | 37A2<              |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | TP_BGA2_AA21    |             | 3B5<>                              |                | USB_4R*       |                                      | 37A2<              |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | TP_BGA2_AB1     |             | 4C3<>                              |                | USB_5         |                                      | 19C7> 21A1<>       |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | TP_BGA2_AB19    |             | 5B7<>                              |                | USB_5*        |                                      | 19C7> 21B1<>       |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | TP_BGA2_AC17    |             | 5B7<                               |                | USB_UREF      |                                      | 19C7<              |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | TP_BGA2_AD9     |             | 3B5<                               |                | VAGPGATE      |                                      | 22B5> 23B8<        |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| A               | TP_BGA2_AD20    |             | 5C7<>                              |                | VMODE0        |                                      | 35C1> 39C4<        |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | TP_BGA2_B4      |             | 3C5<>                              |                | VMODE0_R      |                                      | 35C2<>             |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | TP_BGA2_C5      |             | 3C5<                               |                | VMODE1        |                                      | 35C1> 39C4<        |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | TP_BGA2_E6      |             | 3C5<>                              |                | VMODE1_R      |                                      | 35C2<>             |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | TP_BGA2_G4      |             | 5C7<>                              |                | VMODE2        |                                      | 35C1> 39C4<        |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | TP_BGA2_H4      |             | 5C7<>                              |                | VMODE2_R      |                                      | 35C2<>             |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | TP_BGA2_P20     |             | 4B3<>                              |                | VREG_1PS_GATE |                                      | 22B8> 25D8<        |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | TP_BGA2_P21     |             | 4B3<>                              |                | VREG_2PS_GATE |                                      | 22B8> 25B8<        |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | TP_BGA2_R2      |             | 5B7<>                              |                | VREG_G0       |                                      | 22B4> 24D6< 39D4<  |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
|                 | TP_BGA2_R21     |             | 4B3<>                              |                | VREG_SS_ON    |                                      | 39D4<>             |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_BGA2_T21     |                 | 4B3<>       |                                    | VSBDET         |               | 39B2> 39D4<                          |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_BGA2_U19     |                 | 4B3<>       |                                    | V_1P3          |               | 23A1> 8B2< 10B8< 10D8< 20A7< 20C1<   |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_BGA2_U21     |                 | 4B3<>       |                                    |                |               | 23D5< 34B5< 39B7<                    |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_BGA2_U1B     |                 | 4B3<>       |                                    | V_1PS_VTT      |               | 26C1> 3B1< 3C3< 4D8< 5B6< 5D1<       |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_BGA2_V20     |                 | 4B3<>       |                                    |                |               | 5D4< 5D8< 6D4< 7A5< 7C5< 10D2< 20B1< |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_BGA2_V21     |                 | 3C5<>       |                                    |                |               | 20C4< 22A5<                          |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_BGA2_W2      |                 | 4C3<>       |                                    | V_1PB          |               | 24A1> 24A3< 24B6< 25A8<              |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_BGA2_W19     |                 | 3B5<>       |                                    | V_2P5          |               | 25B2<> 5B7< 7A4< 7A4< 7B4< 7C2<      |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_BGA2_W21     |                 | 3B5<>       |                                    |                |               | 7C4< 8A7< 8C7< 8D4< 10D5< 11A6<      |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_BGA2_Y1      |                 | 4B3<        |                                    |                |               | 11B2< 11B7< 12A7< 13A6< 13B2< 13B7<  |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_BGA2_Y2      |                 | 4C3<>       |                                    |                |               | 14A7< 17B2< 17B6< 17B6< 17D3< 17D6<  |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_BGA2_Y21     |                 | 3B5<>       |                                    |                |               | 17D8< 18C6< 18D1< 18D2< 18D6< 18D7<  |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_BUF24H       |                 | 20A5<       |                                    |                |               | 22A5<                                |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_CPURSU0      |                 | 7B6<>       |                                    | V_3P3_STBY     |               | 39A1> 22B4< 25C1< 27D3< 32C5<        |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_CPURSV1      |                 | 7B6<>       |                                    |                |               | 34D3< 35A8< 35A8< 35D4< 39A8< 39B3<  |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_DEBUG_GPIO15 |                 | 19C4<       |                                    |                |               | 39B7< 39B7< 39B8< 39C2< 39C8<        |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_INIT*        |                 | 20D5<       |                                    | V_3P3_STBY_R   |               | 39B4> 39A8<                          |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_MCPX_AA19    |                 | 20D7<       |                                    | V_SP0_FILTERED |               | 22D3<                                |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_MCPX_AB17    |                 | 20D7<       |                                    | V_BAT_CAP      |               | 39C7> 40D8<                          |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_MCPX_H21     |                 | 19C4<       |                                    | V_BAT_RTC      |               | 39C7> 19B4< 40C2<                    |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_MCPX_TD00    |                 | 20C5<       |                                    | V_CLKREF       |               | 5A5> 5D8<                            |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_MCPX_TD01    |                 | 20C5<       |                                    | V_CPUCORE      |               | 22C1> 5C4< 6D6< 6D8< 23B4< 23D8<     |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_MCPX_Y2      |                 | 19B5<       |                                    |                |               | 26D8<                                |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_MCPX_Y19     |                 | 20D7<       |                                    | V_CPUCORE_LL   |               | 22C4<                                |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_MCPX_Y20     |                 | 20D7<       |                                    | V_DV0_FB       |               | 34D6> 8C1< 9C8< 34C5< 34D6<          |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_PRIIDE_32    |                 | 31A2<       |                                    | V_DV0_REF      |               | 8B2<>                                |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_PRIIDE_34    |                 | 31A2<       |                                    | V_GTLREF       |               | 5B4> 5B5< 5D8<                       |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_PRIIDE_39    |                 | 31A3<       |                                    | V_GTLREF_1P0   |               | 7A4> 7B5<                            |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_ROM_A19..0>  |                 | 20D7<       |                                    | V_GTLREF_MCP   |               | 20B3> 20D4<                          |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_ROM_CE*      |                 | 20C7<       |                                    | V_LAN_3P3V     |               | 29A2> 29C8< 29D1< 30B7<              |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_ROM_OE*      |                 | 20C7<       |                                    | V_LDO_2P5      |               | 39B3> 39A7<                          |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TP_ROM_WE*      |                 | 20C7<       |                                    | V_PLL_STBY     |               | 34D5> 24A6< 24A6< 24B3< 24D6<        |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TRAY_STATE0     |                 | 39C3> 39C4< |                                    |                |               | 25A5< 25A8< 38A3< 38B2<              |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TRAY_STATE1     |                 | 38C1> 39C4< |                                    |                |               | 24C3<>                               |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| TRAY_STATE2     |                 | 38C3> 39C4< |                                    |                |               | XCAL_GPIO<0> 24C6<                   |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| USBPWR_1        |                 | 37D4<       |                                    |                |               | XCAL_GPIO<1> 24C6<                   |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |
| USBPWR_2        |                 | 37C4<       |                                    |                |               | XCAL_GPIO<2> 24C6<                   |                    |   |                                                                                                                                                                                                                     |   |  |   |  |   |  |

|                           |                         |            |            |
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|      |                                                                |       |      |       |       |      |       |       |      |       |      |      |    |   |   |
|------|----------------------------------------------------------------|-------|------|-------|-------|------|-------|-------|------|-------|------|------|----|---|---|
| B    |                                                                | 7     |      | 6     |       | 5    |       | 4     |      | 3     |      | 2    |    | 1 |   |
| D    | *** Part Cross-Reference for the entire design ***             |       |      |       |       |      |       |       |      |       |      |      |    |   | D |
|      | C1B1                                                           | CAP_P | 26   | C2P1B | CAPN  | 6    | C4B1  | CAPN  | 24   | C4R8  | CAPN | 10   |    |   |   |
|      | C1C1                                                           | CAPN  | 5    | C2P19 | CAPN  | 5    | C4E1  | CAPN  | 17   | C4R9  | CAPN | 10   |    |   |   |
|      | C1D1                                                           | CAPN  | 4    | C2P20 | CAPN  | 6    | C4E3  | CAPN  | 17   | C4R10 | CAPN | 10   |    |   |   |
|      | C1D2                                                           | CAPN  | 4    | C2P21 | CAPN  | 6    | C4E4  | CAPN  | 18   | C4R11 | CAPN | 8    |    |   |   |
|      | C1D3                                                           | CAPN  | 10   | C2P22 | CAPN  | 6    | C4E5  | CAPN  | 17   | C4R12 | CAPN | 10   |    |   |   |
|      | C1D4                                                           | CAPN  | 5    | C2P23 | CAPN  | 6    | C4E6  | CAPN  | 18   | C4R13 | CAPN | 10   |    |   |   |
|      | C1D5                                                           | CAPN  | 5    | C2R1  | CAPN  | 6    | C4E7  | CAPN  | 18   | C4R14 | CAPN | 10   |    |   |   |
|      | C1E1                                                           | CAP_P | 23   | C2R2  | CAPN  | 6    | C4E8  | CAPN  | 18   | C4R15 | CAPN | 10   |    |   |   |
|      | C1E2                                                           | CAP_P | 23   | C2R3  | CAPN  | 5    | C4F1  | CAPN  | 17   | C4R16 | CAPN | 10   |    |   |   |
|      | C1E3                                                           | CAPN  | 22   | C2R4  | CAP_P | 5    | C4F2  | CAPN  | 18   | C4R17 | CAPN | 10   |    |   |   |
| C    | C1F2                                                           | CAP_P | 22   | C2R5  | CAPN  | 6    | C4F3  | CAPN  | 18   | C4R18 | CAPN | 10   |    |   |   |
|      | C1G2                                                           | CAPN  | 37   | C2R6  | CAPN  | 6    | C4F5  | CAPN  | 18   | C4R19 | CAPN | 10   |    |   |   |
|      | C1G3                                                           | CAPN  | 37   | C2R7  | CAPN  | 6    | C4F7  | CAPN  | 13   | C4R20 | CAPN | 10   |    |   |   |
|      | C1G4                                                           | CAPN  | 37   | C2R8  | CAPN  | 7    | C4F8  | CAPN  | 18   | C4R21 | CAPN | 10   |    |   |   |
|      | C1G5                                                           | CAPN  | 37   | C2T1  | CAPN  | 28   | C4F9  | CAPN  | 18   | C4R22 | CAPN | 10   |    |   |   |
|      | C1G6                                                           | CAPN  | 37   | C2T2  | CAPN  | 22   | C4G5  | CAP_P | 27   | C4T1  | CAPN | 18   |    |   |   |
|      | C1G7                                                           | CAP_P | 37   | C2T3  | CAPN  | 22   | C4H3  | CAPN  | 34   | C4T2  | CAPN | 18   |    |   |   |
|      | C1G8                                                           | CAPN  | 37   | C2T4  | CAPN  | 22   | C4H4  | CAPN  | 25   | C4T3  | CAPN | 17   |    |   |   |
|      | C1G9                                                           | CAP_P | 37   | C2T5  | CAPN  | 28   | C4H5  | CAPN  | 25   | C4T4  | CAPN | 17   |    |   |   |
|      | C1G10                                                          | CAP_P | 22   | C2U1  | CAPN  | 27   | C4H6  | CAPN  | 34   | C4U1  | CAPN | 18   |    |   |   |
|      | B                                                              | C1N1  | CAPN | 23    | C2U2  | CAPN | 27    | C4M7  | CAPN | 34    | C4U2 | CAPN | 18 |   |   |
| C1P1 |                                                                | CAPN  | 6    | C2U3  | CAPN  | 22   | C4M8  | CAPN  | 34   | C4U3  | CAPN | 18   |    |   |   |
| C1P2 |                                                                | CAPN  | 6    | C2U4  | CAPN  | 27   | C4N1  | CAPN  | 25   | C4U4  | CAPN | 14   |    |   |   |
| C1P3 |                                                                | CAPN  | 6    | C3A1  | CAPN  | 28   | C4N2  | CAPN  | 25   | C4U5  | CAPN | 18   |    |   |   |
| C1P4 |                                                                | CAPN  | 6    | C3B1  | CAP_P | 38   | C4N3  | CAPN  | 24   | CSA1  | CAPN | 35   |    |   |   |
| C1P5 |                                                                | CAPN  | 6    | C3B4  | CAPN  | 10   | C4N4  | CAPN  | 25   | CSA2  | CAPN | 35   |    |   |   |
| C1P6 |                                                                | CAPN  | 5    | C3D1  | CAPN  | 4    | C4N5  | CAPN  | 25   | CSA3  | CAPN | 35   |    |   |   |
| C1P7 |                                                                | CAPN  | 6    | C3D2  | CAPN  | 4    | C4N6  | CAPN  | 24   | CSA4  | CAPN | 35   |    |   |   |
| C1P8 |                                                                | CAPN  | 6    | C3E1  | CAPN  | 27   | C4N7  | CAPN  | 25   | CSA5  | CAPN | 35   |    |   |   |
| C1P9 |                                                                | CAPN  | 6    | C3E3  | CAPN  | 18   | C4N8  | CAPN  | 25   | CSA6  | CAPN | 33   |    |   |   |
| A    |                                                                | C1P10 | CAPN | 23    | C3E4  | CAPN | 18    | C4N9  | CAPN | 24    | CSA7 | CAPN | 35 |   |   |
|      | C1P11                                                          | CAPN  | 6    | C3E5  | CAPN  | 18   | C4N10 | CAPN  | 25   | CSA8  | CAPN | 27   |    |   |   |
|      | C1P12                                                          | CAPN  | 5    | C3E6  | CAPN  | 17   | C4N11 | CAPN  | 25   | CSA11 | CAPN | 28   |    |   |   |
|      | C1P13                                                          | CAPN  | 26   | C3E7  | CAPN  | 17   | C4N12 | CAPN  | 25   | CSB2  | CAPN | 17   |    |   |   |
|      | C1R1                                                           | CAPN  | 6    | C3E8  | CAPN  | 18   | C4N13 | CAPN  | 25   | CSB3  | CAPN | 18   |    |   |   |
|      | C1R2                                                           | CAPN  | 6    | C3E9  | CAPN  | 17   | C4N14 | CAPN  | 25   | CSB4  | CAPN | 18   |    |   |   |
|      | C1R3                                                           | CAPN  | 6    | C3F1  | CAPN  | 18   | C4N15 | CAPN  | 25   | CSB5  | CAPN | 39   |    |   |   |
|      | C1R4                                                           | CAPN  | 6    | C3F2  | CAPN  | 18   | C4N16 | CAPN  | 25   | CSC1  | CAPN | 18   |    |   |   |
|      | C1R5                                                           | CAPN  | 5    | C3F3  | CAPN  | 18   | C4N17 | CAPN  | 25   | CSC2  | CAPN | 18   |    |   |   |
|      | C1R6                                                           | CAPN  | 5    | C3G1  | CAPN  | 27   | C4N18 | CAPN  | 25   | CSC4  | CAPN | 18   |    |   |   |
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|                           |       |       |       |       |      |       |             |       |       |             |                |                         |             |            |            |        |                 |    |
|---------------------------|-------|-------|-------|-------|------|-------|-------------|-------|-------|-------------|----------------|-------------------------|-------------|------------|------------|--------|-----------------|----|
| 8                         |       | 7     |       | 6     |      | 5     |             | 4     |       | 3           |                | 2                       |             | 1          |            |        |                 |    |
| D                         | C5T2  | CAPN  | 18    | C5R3  | CAPN | 18    | C7R5        | CAPN  | 28    | FB6E1       | FERRITE        | 19                      | C           | B          | A          |        |                 |    |
|                           | C5T3  | CAPN  | 17    | C5R4  | CAPN | 17    | C7T1        | CAPN  | 19    | FB7A1       | FERRITE        | 32                      |             |            |            |        |                 |    |
|                           | C5T4  | CAPN  | 18    | C5R5  | CAPN | 20    | C7T2        | CAPN  | 23    | FB7B1       | FERRITE        | 29                      |             |            |            | J1G1   | 2X6HDR12        | 37 |
|                           | C5T7  | CAPN  | 18    | C5R6  | CAPN | 18    | C7T3        | CAPN  | 20    | J2G1        | 2X5HDR18       | 38                      |             |            |            | J2G2   | 2X10PWR         | 27 |
|                           | C5T8  | CAPN  | 17    | C5R7  | CAPN | 17    | C8A2        | CAPN  | 38    | J3A1        | 1X3HDR         | 38                      |             |            |            | J3B1   | 1X2HDR          | 24 |
|                           | C5T9  | CAPN  | 18    | C5R8  | CAPN | 17    | C8A3        | CAPN  | 28    | J4A1        | 24P_AV_BEC.EMI | 35                      |             |            |            | J7A1   | RJ45_2LED_TABUP | 30 |
|                           | C5T10 | CAPN  | 23    | C5R9  | CAPN | 10    | C8A4        | CAPN  | 28    | J7D1        | 2X8HDR         | 19                      |             |            |            | J7G1   | 2X6HDR12        | 37 |
|                           | C5T11 | CAPN  | 10    | C5R10 | CAPN | 17    | C8A5        | CAPN  | 38    | J8A1        | 2X7HDR14       | 38                      |             |            |            | J8C1   | 2X20HDR20       | 31 |
|                           | CSU1  | CAPN  | 17    | C5R13 | CAPN | 7     | C8B1        | CAPN  | 29    | L1R1        | INDUCTOR       | 5                       |             |            |            | L2F1   | INDUCTOR        | 22 |
|                           | CSU2  | CAPN  | 17    | C5T1  | CAPN | 10    | C8B2        | CAPN  | 29    | L2G1        | INDUCTOR       | 22                      |             |            |            | L4A1   | INDUCTOR        | 34 |
|                           | CSU3  | CAPN  | 18    | C5T2  | CAPN | 40    | C8B3        | CAPN  | 29    | L4A2        | INDUCTOR       | 34                      |             |            |            | L4A3   | INDUCTOR        | 34 |
|                           | C6A1  | CAP_P | 33    | C5T3  | CAPN | 20    | C8B4        | CAPN  | 29    | L4A4        | INDUCTOR       | 34                      |             |            |            | L7A1   | INDUCTOR        | 30 |
|                           | C6A2  | CAPN  | 33    | C5T4  | CAPN | 28    | C8C1        | CAP_P | 40    | L7M1        | INDUCTOR       | 30                      |             |            |            | LBBD1  | LABEL           | 36 |
|                           | C6A3  | CAP_P | 33    | C5T5  | CAPN | 10    | C8C2        | CAPN  | 28    | MTG1B1      | STD_MTG_CORNER | 36                      |             |            |            | MTG1E1 | STD_MTG_EDGE    | 36 |
|                           | C6A4  | CAPN  | 33    | C5T6  | CAPN | 10    | C8C4        | CAPN  | 31    | MTG1F1      | STD_MTG_EDGE   | 36                      |             |            |            | MTG3A1 | SLOT_X          | 38 |
|                           | C6A5  | CAPN  | 33    | C5T7  | CAPN | 10    | C8C5        | CAPN  | 31    | MTG3G1      | SLOT_X         | 38                      |             |            |            | MTG4E1 | STD_MTG_HOLE    | 36 |
|                           | C6A6  | CAPN  | 33    | C5T8  | CAPN | 19    | C8E1        | CAPN  | 27    | MTG6F1      | STD_MTG_HOLE   | 36                      |             |            |            | MTG7C1 | STD_MTG_HOLE    | 36 |
|                           | C6A7  | CAPN  | 33    | C5U1  | CAPN | 35    | C8E2        | CAPN  | 28    | MTG8A1      | STD_MTG_HOLE   | 36                      |             |            |            | MTG8C1 | STD_MTG_HOLE    | 36 |
|                           | C6A8  | CAPN  | 33    | C5U1  | CAPN | 37    | C8E3        | CAP_P | 28    | Q1N1        | FET_VREG       | 26                      |             |            |            | Q1U1   | FET_VREG        | 22 |
|                           | C6A9  | CAPN  | 33    | C7A1  | CAPN | 32    | C8E5        | CAPN  | 28    | Q2F1        | FET_VREG       | 22                      |             |            |            | Q2N1   | TLV431          | 23 |
| C6A10                     | CAPN  | 32    | C7A2  | CAP_P | 28   | C8F5  | CAP_P       | 23    | Q2N2  | FET_VREG    | 23             | Q2U1                    | PNP         | 38         |            |        |                 |    |
| C6A11                     | CAPN  | 28    | C7A3  | CAPN  | 29   | C8G1  | CAP_P       | 28    | Q3F1  | NPN         | 19             | Q3U1                    | PNP         | 38         |            |        |                 |    |
| C6A12                     | CAPN  | 28    | C7A4  | CAPN  | 30   | C8M1  | CAPN        | 30    | Q4P1  | FET         | 8              | Q5A1                    | MBT3904DUAL | 32         |            |        |                 |    |
| C6B1                      | CAPN  | 17    | C7A5  | CAPN  | 30   | C8N1  | CAPN        | 29    | Q5F1  | MBT3904DUAL | 13             | Q6A1                    | MBT3904DUAL | 39         |            |        |                 |    |
| C6B2                      | CAPN  | 17    | C7A6  | CAPN  | 29   | CR4A1 | D10SOT235   | 34    | Q6A2  | PNP         | 32             | Q6B1                    | PNP         | 32         |            |        |                 |    |
| C6B3                      | CAPN  | 17    | C7B1  | CAPN  | 99   | CR4A2 | D10SOT235   | 34    | Q6F1  | FET         | 19             | Q7B1                    | PNP         | 35         |            |        |                 |    |
| C6B4                      | CAPN  | 17    | C7B3  | CAPN  | 28   | CR4A3 | D10SOT235   | 34    | Q7B2  | D10SOT235   | 39             | Q7C1                    | NPN         | 39         |            |        |                 |    |
| C6B5                      | CAPN  | 17    | C7B4  | CAPN  | 28   | CR4A4 | D10SOT235   | 34    | Q7C2  | PNP         | 39             | Q7C3                    | PNP         | 27         |            |        |                 |    |
| C6B7                      | CAPN  | 18    | C7B5  | CAP_P | 29   | CR5A1 | D10SOT235   | 35    | Q7E1  | MBT3904DUAL | 35             | Q7F1                    | FET         | 40         |            |        |                 |    |
| C6C01                     | CAP_P | 17    | C7B6  | CAPN  | 39   | CR5A2 | D10SOT235   | 35    | Q7G1  | NPN         | 27             | Q7G2                    | NPN         | 27         |            |        |                 |    |
| C6C1                      | CAP_P | 17    | C7B7  | CAPN  | 29   | CR5A3 | D10SOT235   | 35    | Q7N1  | BCP54       | 38             | Q7R1                    | MBT3904DUAL | 21         |            |        |                 |    |
| C6C2                      | CAPN  | 17    | C7B8  | CAPN  | 29   | CR6C1 | MBT3904DUAL | 11    | Q8F2  | NPN         | 27             | R1C1                    | RESN        | 4          |            |        |                 |    |
| C6C3                      | CAPN  | 18    | C7B9  | CAPN  | 29   | CR6G1 | D10SOT235   | 37    | R1C2  | RESN        | 4              | R1C3                    | RESN        | 5          |            |        |                 |    |
| C6C4                      | CAPN  | 18    | C7B10 | CAPN  | 25   | CR6U1 | D10SOT235   | 37    | R1C4  | RESN        | 4              | R1C5                    | RESN        | 3          |            |        |                 |    |
| C6C5                      | CAPN  | 17    | C7B11 | CAPN  | 25   | CR6U2 | D10SOT235   | 37    | R1C6  | RESN        | 3              | R1C7                    | RESN        | 4          |            |        |                 |    |
| C6C6                      | CAPN  | 18    | C7B12 | CAPN  | 25   | CR6U3 | D10SOT235   | 37    | R1C8  | RESN        | 4              | R1C9                    | RESN        | 5          |            |        |                 |    |
| C6C7                      | CAPN  | 17    | C7C1  | CAPN  | 39   | CR6U4 | D10SOT235   | 37    | R1C10 | RESN        | 4              | R1C11                   | RESN        | 3          |            |        |                 |    |
| C6C9                      | CAPN  | 18    | C7C2  | CAPN  | 39   | CR6V1 | D10SOT235   | 37    | R1C12 | RESN        | 4              | R1C13                   | RESN        | 5          |            |        |                 |    |
| C6C10                     | CAPN  | 18    | C7C3  | CAPN  | 27   | CR7G1 | D10SOT235   | 37    | R1C14 | RESN        | 4              | R1C15                   | RESN        | 4          |            |        |                 |    |
| C6C11                     | CAPN  | 11    | C7C4  | CAPN  | 39   | CR7G2 | D10SOT235   | 37    | R1C16 | RESN        | 4              |                         |             |            |            |        |                 |    |
| C6D1                      | CAPN  | 18    | C7C5  | CAPN  | 39   | CR7U1 | D10SOT235   | 37    |       |             |                |                         |             |            |            |        |                 |    |
| C6D2                      | CAPN  | 18    | C7C6  | CAPN  | 39   | DB1R1 | DBPAD       | 22    |       |             |                |                         |             |            |            |        |                 |    |
| C6D3                      | CAPN  | 18    | C7C7  | CAPN  | 39   | DB3B3 | DBPAD       | 26    |       |             |                |                         |             |            |            |        |                 |    |
| C6D5                      | CAPN  | 18    | C7D1  | CAPN  | 28   | DB3N1 | DBPAD       | 30    |       |             |                |                         |             |            |            |        |                 |    |
| C6D7                      | CAPN  | 11    | C7D2  | CAPN  | 28   | DB3N2 | DBPAD       | 30    |       |             |                |                         |             |            |            |        |                 |    |
| C6E1                      | CAPN  | 19    | C7E1  | CAPN  | 28   | DB3T1 | DBPAD       | 8     |       |             |                |                         |             |            |            |        |                 |    |
| C6E2                      | CAPN  | 19    | C7F1  | CAP_P | 23   | DB4B1 | DBPAD       | 8     |       |             |                |                         |             |            |            |        |                 |    |
| C6E3                      | CAPN  | 19    | C7F4  | CAPN  | 19   | DB4M1 | DBPAD       | 24    |       |             |                |                         |             |            |            |        |                 |    |
| C6E4                      | CAPN  | 28    | C7G1  | CAPN  | 28   | DB4N1 | DBPAD       | 24    |       |             |                |                         |             |            |            |        |                 |    |
| C6F1                      | CAPN  | 27    | C7G2  | CAPN  | 37   | DB4N2 | DBPAD       | 24    |       |             |                |                         |             |            |            |        |                 |    |
| C6F2                      | CAPN  | 20    | C7G3  | CAP_P | 37   | DB4N3 | DBPAD       | 24    |       |             |                |                         |             |            |            |        |                 |    |
| C6F3                      | CAPN  | 20    | C7G4  | CAPN  | 37   | DB4N4 | DBPAD       | 24    |       |             |                |                         |             |            |            |        |                 |    |
| C6F4                      | CAPN  | 40    | C7G5  | CAPN  | 37   | DB5B1 | DBPAD       | 24    |       |             |                |                         |             |            |            |        |                 |    |
| C6G1                      | CAPN  | 27    | C7G6  | CAPN  | 37   | DB5C1 | DBPAD       | 7     |       |             |                |                         |             |            |            |        |                 |    |
| C6G2                      | CAP_P | 26    | C7G7  | CAPN  | 37   | DB5F1 | DBPAD       | 26    |       |             |                |                         |             |            |            |        |                 |    |
| C6G3                      | CAP_P | 28    | C7G8  | CAPN  | 37   | DB5R1 | DBPAD       | 23    |       |             |                |                         |             |            |            |        |                 |    |
| C6G4                      | CAPN  | 27    | C7G9  | CAPN  | 37   | DB5R2 | DBPAD       | 7     |       |             |                |                         |             |            |            |        |                 |    |
| C6G5                      | CAPN  | 28    | C7G10 | CAPN  | 37   | DB5T1 | DBPAD       | 8     |       |             |                |                         |             |            |            |        |                 |    |
| C6M1                      | CAPN  | 32    | C7G11 | CAP_P | 37   | DB6C1 | DBPAD       | 39    |       |             |                |                         |             |            |            |        |                 |    |
| C6M3                      | CAPN  | 32    | C7H1  | CAPN  | 32   | DB6C2 | DBPAD       | 39    |       |             |                |                         |             |            |            |        |                 |    |
| C6H4                      | CAPN  | 32    | C7H2  | CAPN  | 28   | DB6C3 | DBPAD       | 39    |       |             |                |                         |             |            |            |        |                 |    |
| C6N1                      | CAPN  | 18    | C7N1  | CAPN  | 39   | DB6F1 | DBPAD       | 48    |       |             |                |                         |             |            |            |        |                 |    |
| C6N2                      | CAPN  | 18    | C7N2  | CAPN  | 39   | DB6T1 | DBPAD       | 25    |       |             |                |                         |             |            |            |        |                 |    |
| C6N3                      | CAPN  | 11    | C7N3  | CAPN  | 25   | DB7B1 | DBPAD       | 39    |       |             |                |                         |             |            |            |        |                 |    |
| C6N4                      | CAPN  | 18    | C7N4  | CAPN  | 25   | DB7B2 | DBPAD       | 39    |       |             |                |                         |             |            |            |        |                 |    |
| C6N5                      | CAPN  | 18    | C7N5  | CAPN  | 25   | DB7B3 | DBPAD       | 39    |       |             |                |                         |             |            |            |        |                 |    |
| C6N7                      | CAPN  | 25    | C7P1  | CAPN  | 39   | DB7C1 | DBPAD       | 39    |       |             |                |                         |             |            |            |        |                 |    |
| C6N8                      | CAPN  | 25    | C7P2  | CAPN  | 39   | DB7E1 | DBPAD       | 23    |       |             |                |                         |             |            |            |        |                 |    |
| C6P1                      | CAPN  | 17    | C7P3  | CAPN  | 39   | DB7N1 | DBPAD       | 39    |       |             |                |                         |             |            |            |        |                 |    |
| C6P2                      | CAPN  | 18    | C7P4  | CAPN  | 39   | DB7P1 | DBPAD       | 39    |       |             |                |                         |             |            |            |        |                 |    |
| C6P3                      | CAPN  | 17    | C7P5  | CAPN  | 39   | DB7R1 | DBPAD       | 25    |       |             |                |                         |             |            |            |        |                 |    |
| C6P6                      | CAPN  | 18    | C7P6  | CAPN  | 39   | FB3N1 | FERR_BD     | 34    |       |             |                |                         |             |            |            |        |                 |    |
| C6P8                      | CAPN  | 12    | C7P7  | CAPN  | 39   | FB3P1 | FERR_BD     | 8     |       |             |                |                         |             |            |            |        |                 |    |
| C6P9                      | CAPN  | 18    | C7R1  | CAPN  | 28   | FB4A1 | FERR_BD     | 24    |       |             |                |                         |             |            |            |        |                 |    |
| C6P10                     | CAPN  | 39    | C7R2  | CAPN  | 28   | FB5A1 | FERR_BD     | 33    |       |             |                |                         |             |            |            |        |                 |    |
| C6R1                      | CAPN  | 17    | C7R3  | CAPN  | 20   | FB5A2 | FERR_BD     | 33    |       |             |                |                         |             |            |            |        |                 |    |
| C6R2                      | CAPN  | 17    | C7R4  | CAPN  | 27   | FB5N1 | FERR_BD     | 34    |       |             |                |                         |             |            |            |        |                 |    |
| 8                         |       | 7     |       | 6     |      | 5     |             | 4     |       | 3           |                | 2                       |             | 1          |            |        |                 |    |
| MICROSOFT<br>CONFIDENTIAL |       |       |       |       |      |       |             |       |       |             |                | PROJECT NAME<br>TUSCANY |             | PAGE<br>44 | REV<br>5.1 |        |                 |    |



| B |       |           | 7     | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5 | 4 | 3 | 2 | 1 |
|---|-------|-----------|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|
| D | R7R4  | RESN      | 21    | RP6C1 RPAK4C_4R 15<br>RP6C2 RPAK4C_4R 15<br>RP6C3 RPAK4C_4R 15<br>RP6E1 RPAK4C_4R 31<br>RP6P1 RPAK4C_4R 15<br>RP6P2 RPAK4C_4R 15<br>RP6P3 RPAK4C_4R 15<br>RP6P4 RPAK4C_4R 15<br>RP6R1 RPAK4C_4R 15<br>RP6R2 RPAK4C_4R 15<br>RP6R3 RPAK4C_4R 15<br>RP6R4 RPAK4C_4R 15<br>RP6T1 RPAK4C_4R 31<br>RP6T2 RPAK4C_4R 31<br>RP6T3 RPAK4C_4R 31<br>RP7E1 RPAK4C_4R 31<br>RP7E2 RPAK4C_4R 31<br>RP7G1 RPAK4C_4R 37<br>RP7R1 RPAK4C_4R 20<br>RP7R2 RPAK4C_4R 20<br>RP7T1 RPAK4C_4R 31<br>RP8B1 RPAK4C_4R 29<br>RP8B2 RPAK4C_4R 29<br>RT1V1 THERMISTOR 37<br>RT3G1 THERMISTOR 37<br>RT3V1 THERMISTOR 37<br>RT3V2 THERMISTOR 37<br>RT5A1 THERMISTOR 35<br>RT6M1 THERMISTOR 35<br>U2C1 PBGA2_495 3 4 5<br>U2T1 FANS059M 22<br>U3B1 ADM1032 30<br>U3R1 CY2305 4<br>U3T1 DDR_SDRAM4MX32 14<br>U4B1 XCRLIBUR 24<br>U4C1 NU2B 7 B<br>U4N1 FAN255B 24<br>U5F1 DDR_SDRAM4MX32 13<br>U5G1 FET_VREG 26<br>U5N1 ICS413_02 25<br>U6A1 78M05 32<br>U6A2 TLC2272 33<br>U6A3 WMB726 32<br>U6D1 DDR_SDRAM4MX32 12<br>U6E1 MCPX_2 19 20<br>U6N1 DDR_SDRAM4MX32 11<br>U7C1 XYCLOPS 39<br>U7D1 AT24C02 30<br>U7F1 FET_VREG 23<br>U8B1 ICS1893AF 29<br>Y3B1 CRYSTAL 24<br>Y6F1 XTAL4P 19 |   |   |   |   |   |
|   | R7R5  | RESN      | 21    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R7R6  | RESN      | 20    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R7R7  | RESN      | 39    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R7R8  | RESN      | 8     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R7T1  | RESN      | 35    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R7T2  | RESN      | 35    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R7T3  | RESN      | 35    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R7U1  | RESN      | 21    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R7U2  | RESN      | 21    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
| C | R7U3  | RESN      | 21    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R7U4  | RESN      | 21    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R7U5  | RESN      | 40    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R7V1  | RESN      | 37    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R7V2  | RESN      | 37    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R7V3  | RESN      | 37    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R7U4  | RESN      | 37    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8A1  | RESN      | 29    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8A2  | RESN      | 29    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8B2  | RESN      | 29    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
| B | R8B3  | RESN      | 19    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8B4  | RESN      | 29    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8B5  | RESN      | 31    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8C1  | RESN      | 31    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8C2  | RESN      | 31    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8C3  | RESN      | 31    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8C4  | RESN      | 31    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8D1  | RESN      | 31    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8E1  | RESN      | 23    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8F1  | RESN      | 23    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
| A | R8F4  | RESN      | 27    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8F6  | RESN      | 27    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8F7  | RESN      | 27    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8F8  | RESN      | 27    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8G1  | RESN      | 27    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8G2  | RESN      | 27    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8G3  | RESN      | 27    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8N1  | RESN      | 19    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8N2  | RESN      | 31    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8R1  | RESN      | 21    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8T1  | RESN      | 23    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8T2  | RESN      | 23    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | R8U1  | RESN      | 23    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP1G1 | RPAK4C_4R | 37    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP3E1 | RPAK4C_4R | 15 16 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP3E2 | RPAK4C_4R | 16    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP3E3 | RPAK4C_4R | 16    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP3E4 | RPAK4C_4R | 15 16 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP3F1 | RPAK4C_4R | 16    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP4B1 | RPAK4C_4R | 34    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP4B2 | RPAK4C_4R | 34    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP4B3 | RPAK4C_4R | 34    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP4B4 | RPAK4C_4R | 34    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP4E1 | RPAK4C_4R | 16    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP4E2 | RPAK4C_4R | 15 16 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP4E3 | RPAK4C_4R | 16    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP4E4 | RPAK4C_4R | 16    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP4F1 | RPAK4C_4R | 16    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP5B1 | RPAK4C_4R | 15    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP5B2 | RPAK4C_4R | 15    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP5C1 | RPAK4C_4R | 15    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP5C2 | RPAK4C_4R | 15    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP5P1 | RPAK4C_4R | 15    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP5R1 | RPAK4C_4R | 15    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP5T1 | RPAK4C_4R | 15 16 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP5T2 | RPAK4C_4R | 16    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP5T3 | RPAK4C_4R | 16    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP5T4 | RPAK4C_4R | 15 16 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP5T5 | RPAK4C_4R | 16    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP5T6 | RPAK4C_4R | 15 16 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP5T7 | RPAK4C_4R | 16    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP5T8 | RPAK4C_4R | 16    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP5U1 | RPAK4C_4R | 16    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP5U2 | RPAK4C_4R | 16    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP6B1 | RPAK4C_4R | 15    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP6B2 | RPAK4C_4R | 15    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
|   | RP6B3 | RPAK4C_4R | 15    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |   |   |   |   |   |
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