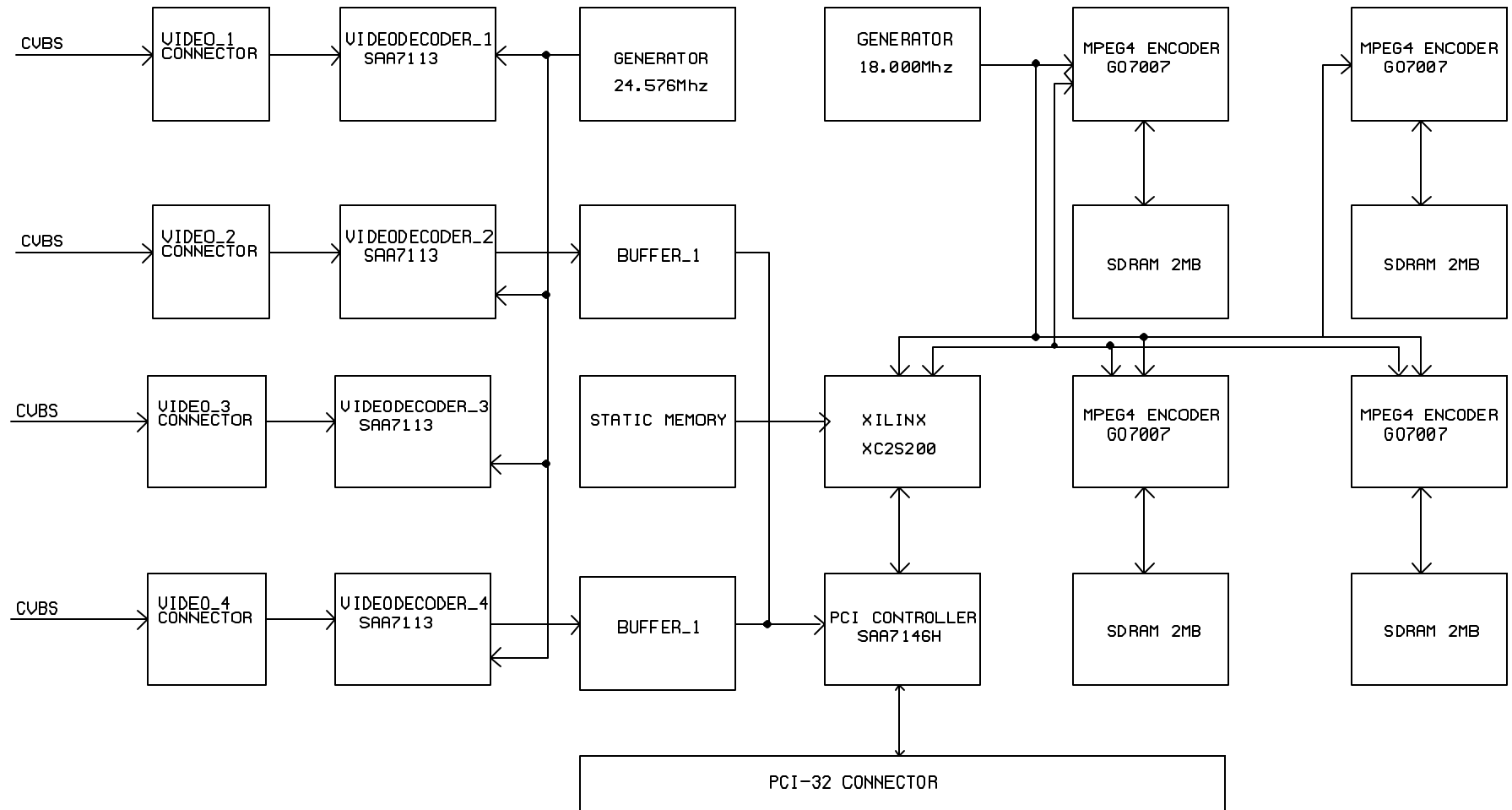
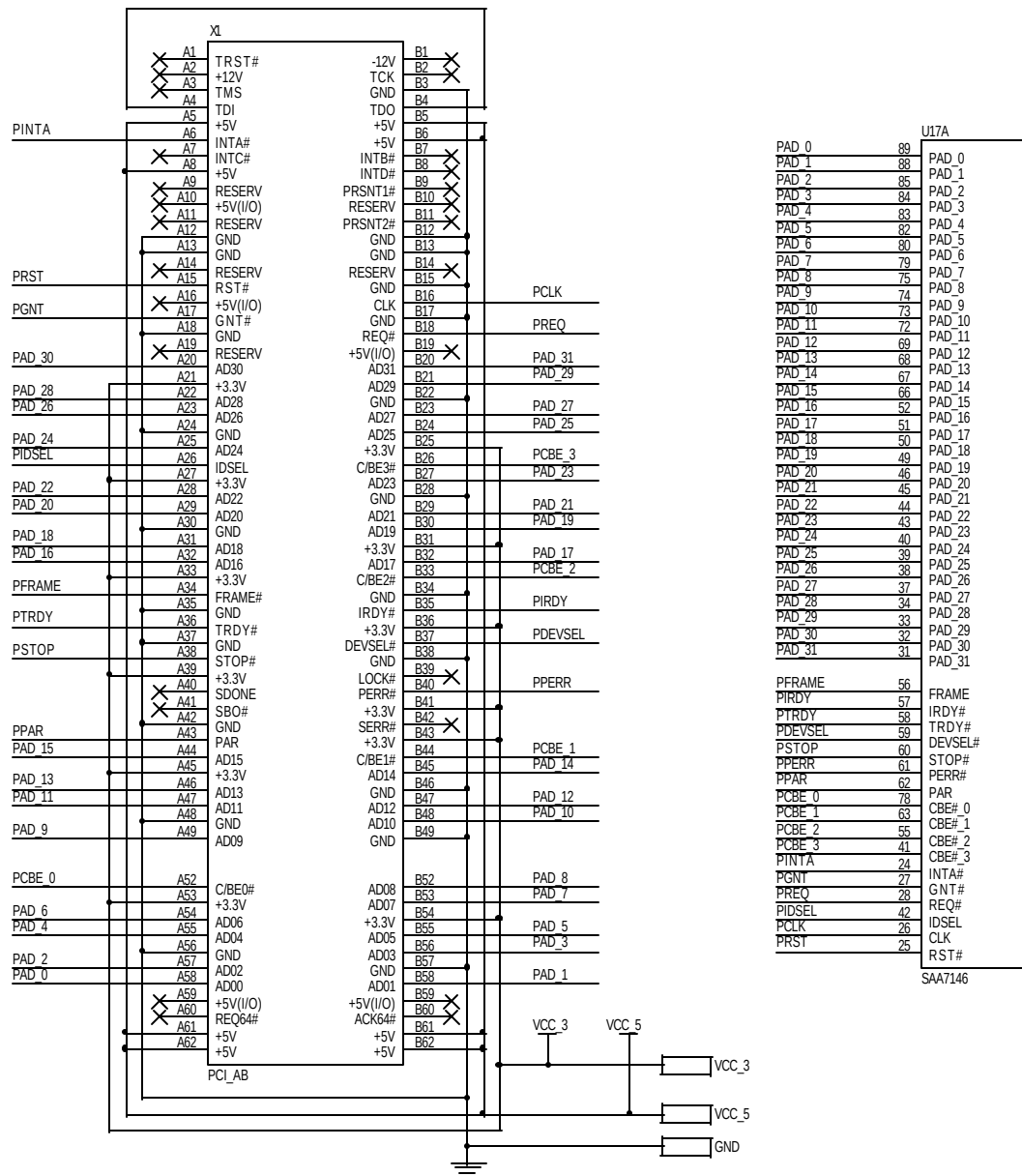


## **Appendix B - EUT Schematics/Block Diagram**

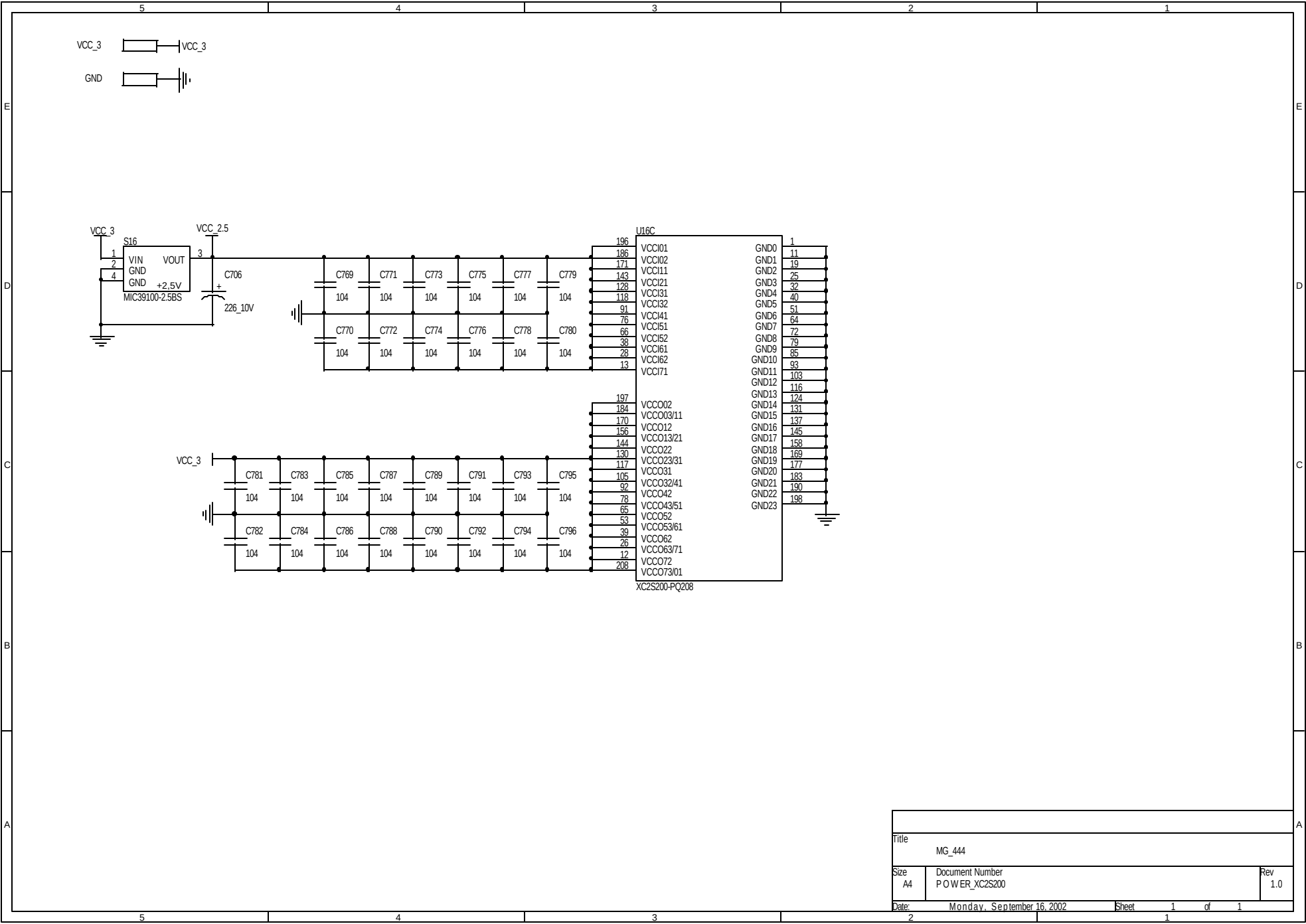
---

# MG444 BLOCK DIAGRAM

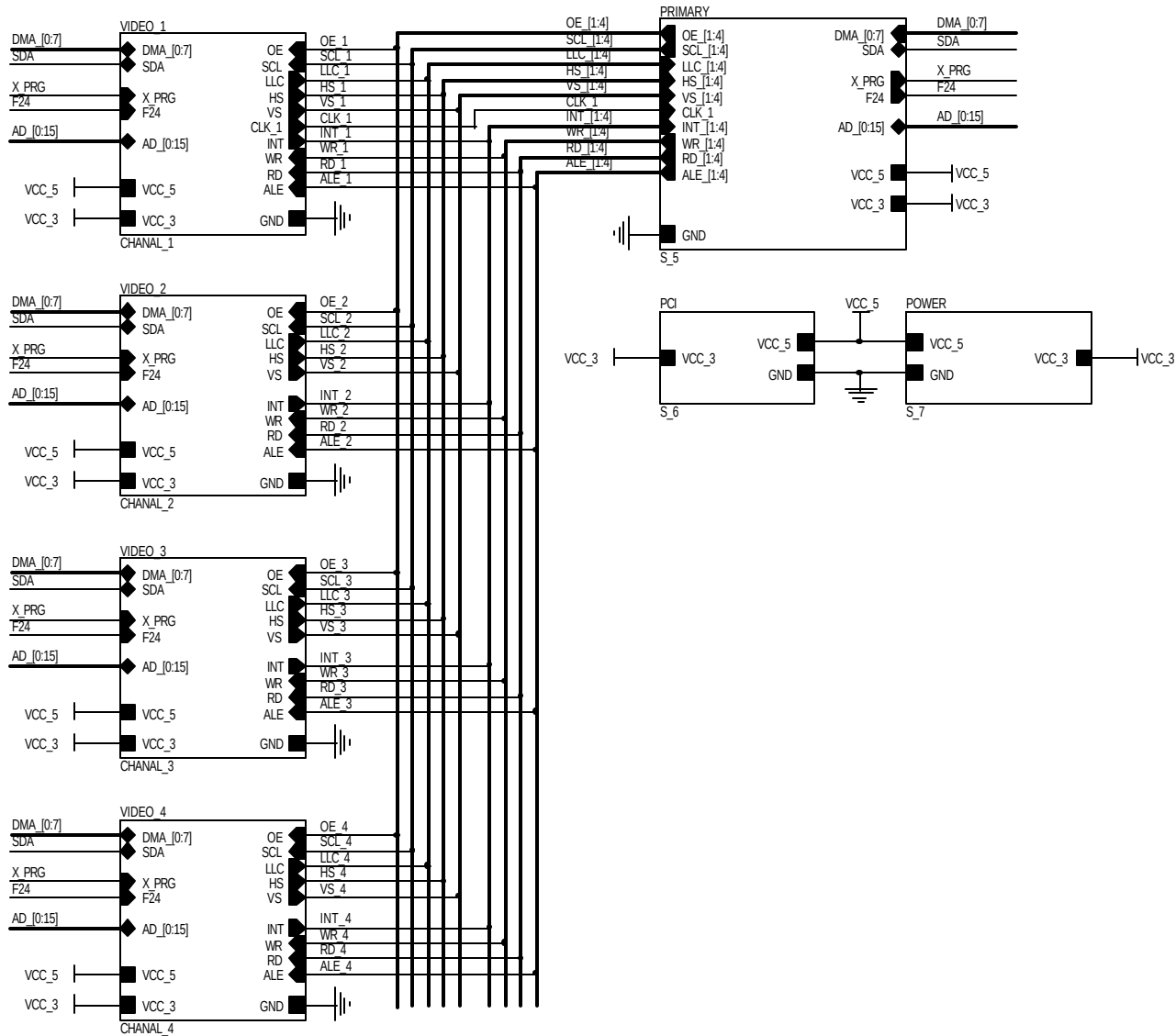




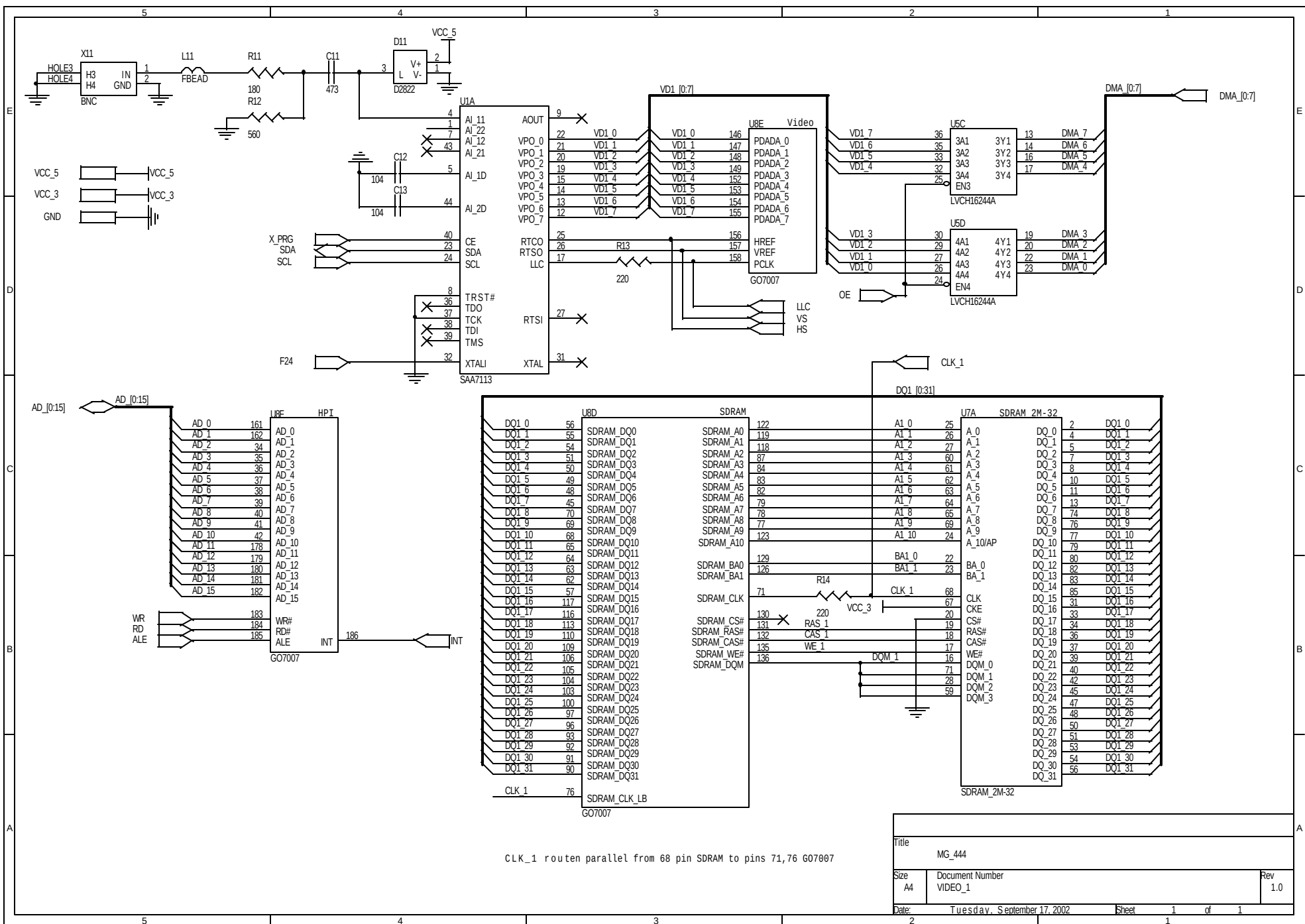
|                                     |                 |     |
|-------------------------------------|-----------------|-----|
| Title                               |                 |     |
| MG_444                              |                 |     |
| Size                                | Document Number | Rev |
| A4                                  | PCI             | 1.0 |
| Date: Wednesday, September 11, 2002 |                 |     |
| Sheet 1 of 1                        |                 |     |

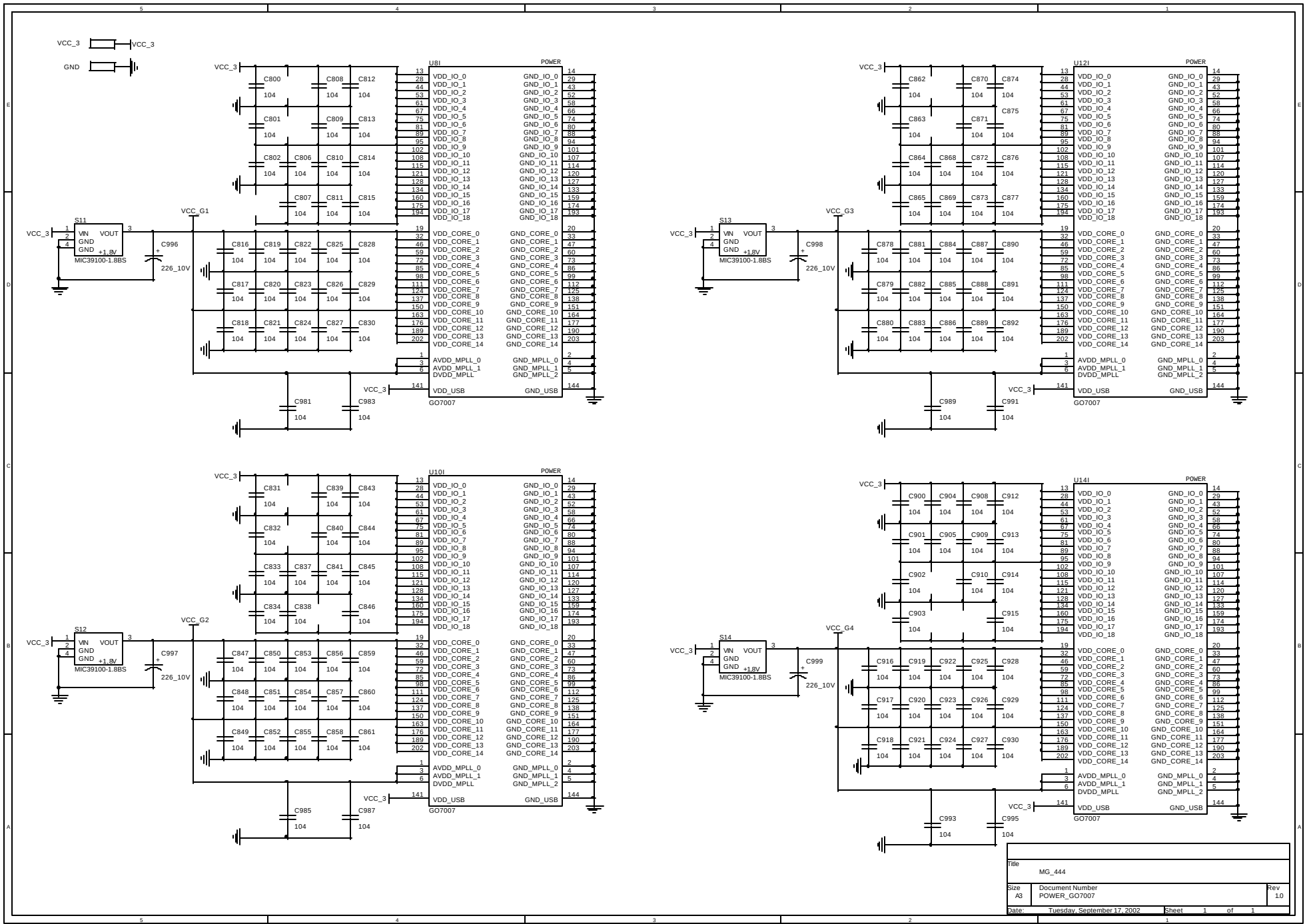


|        |                            |              |
|--------|----------------------------|--------------|
| Title  |                            |              |
| MG_444 |                            |              |
| Size   | Document Number            | Rev          |
| A4     | P O W E R_XC2S200          | 1.0          |
| Date:  | Monday, September 16, 2002 | Sheet 1 of 1 |
| 2      |                            | 1            |

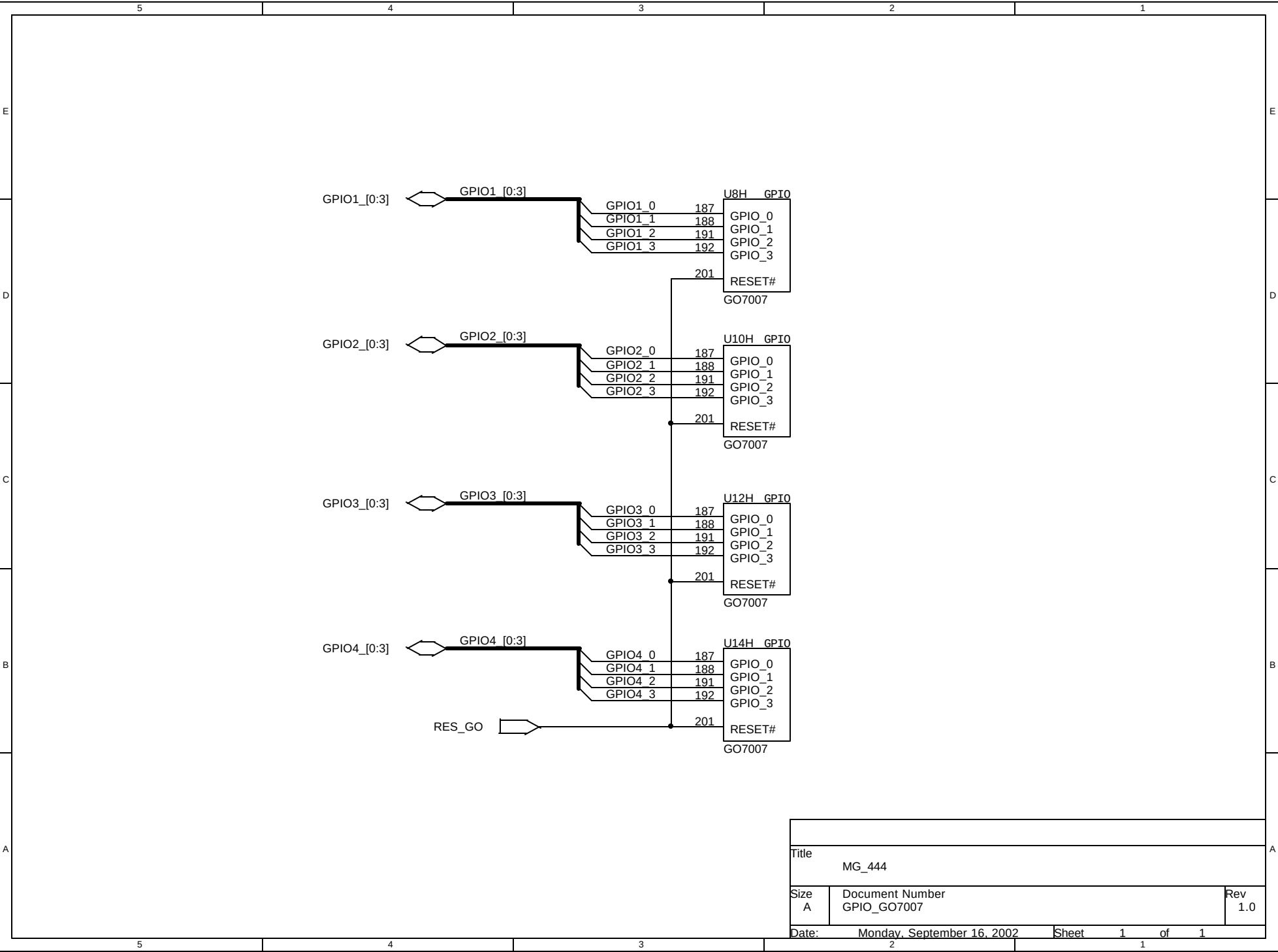


|        |                             |              |
|--------|-----------------------------|--------------|
| Title  |                             |              |
| MG_444 |                             |              |
| Size   | Document Number             | Rev          |
| A4     | GLOBAL_SCHEME               | 1.0          |
| Date:  | Tuesday, September 17, 2002 | Sheet 1 of 1 |





|        |                             |              |
|--------|-----------------------------|--------------|
| Title  |                             |              |
| MG_444 |                             |              |
| Size   | Document Number             | Rev          |
| A3     | POWER_GO7007                | 1.0          |
| Date:  | Tuesday, September 17, 2002 | Sheet 1 of 1 |



Title

MG\_444

Size

A Document Number

Rev

1.0

Date:

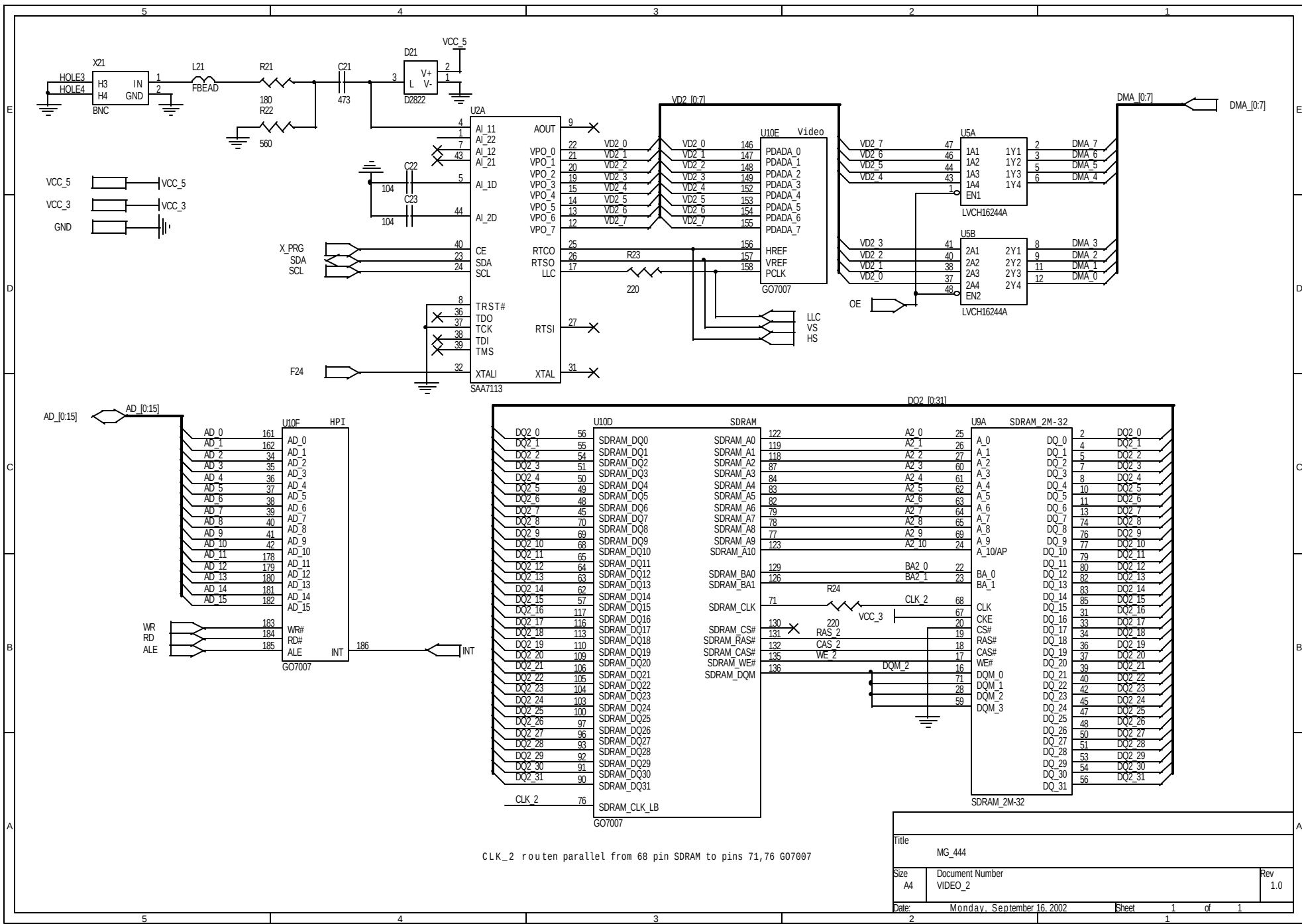
Monday, September 16, 2002

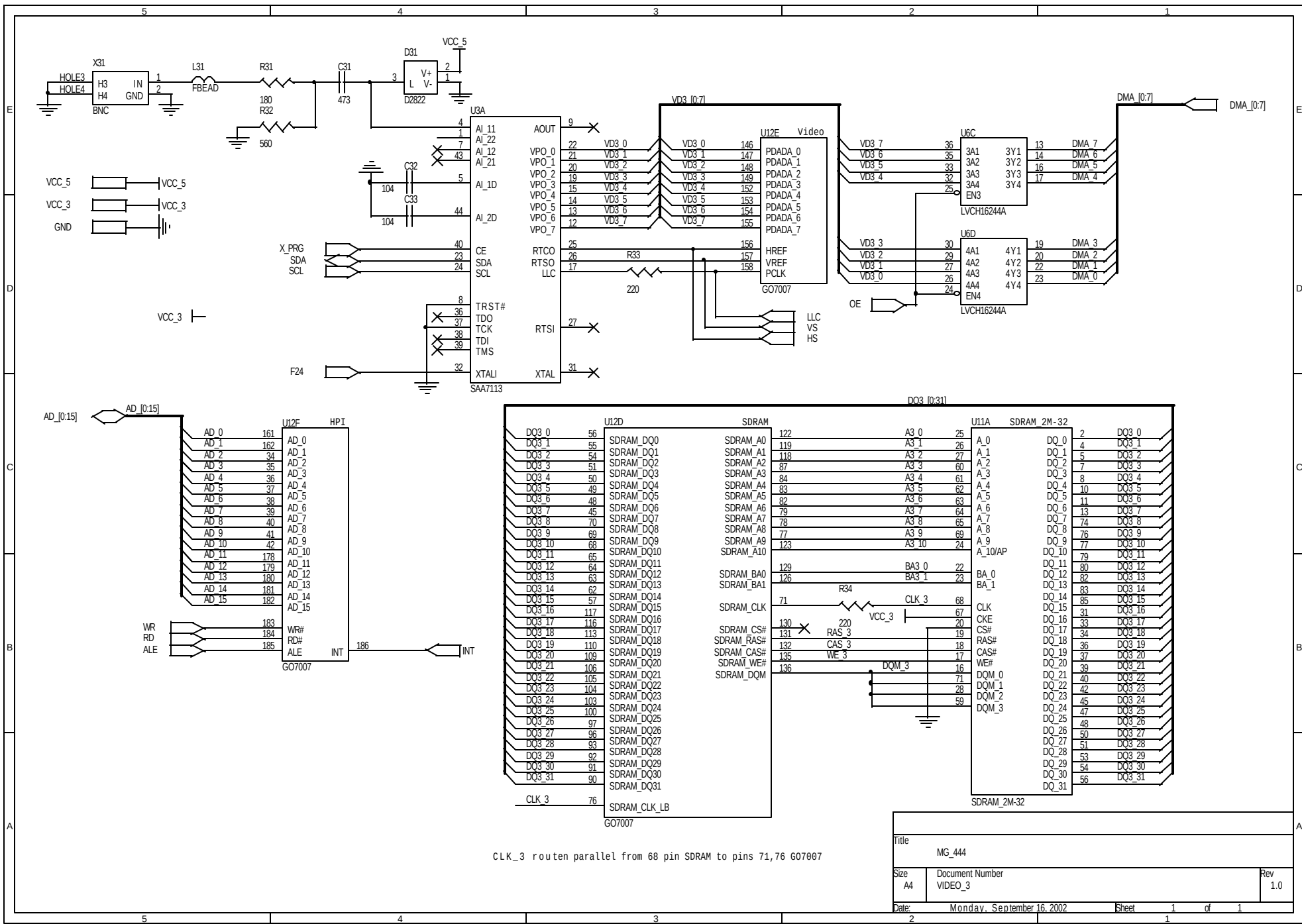
Sheet

1

of

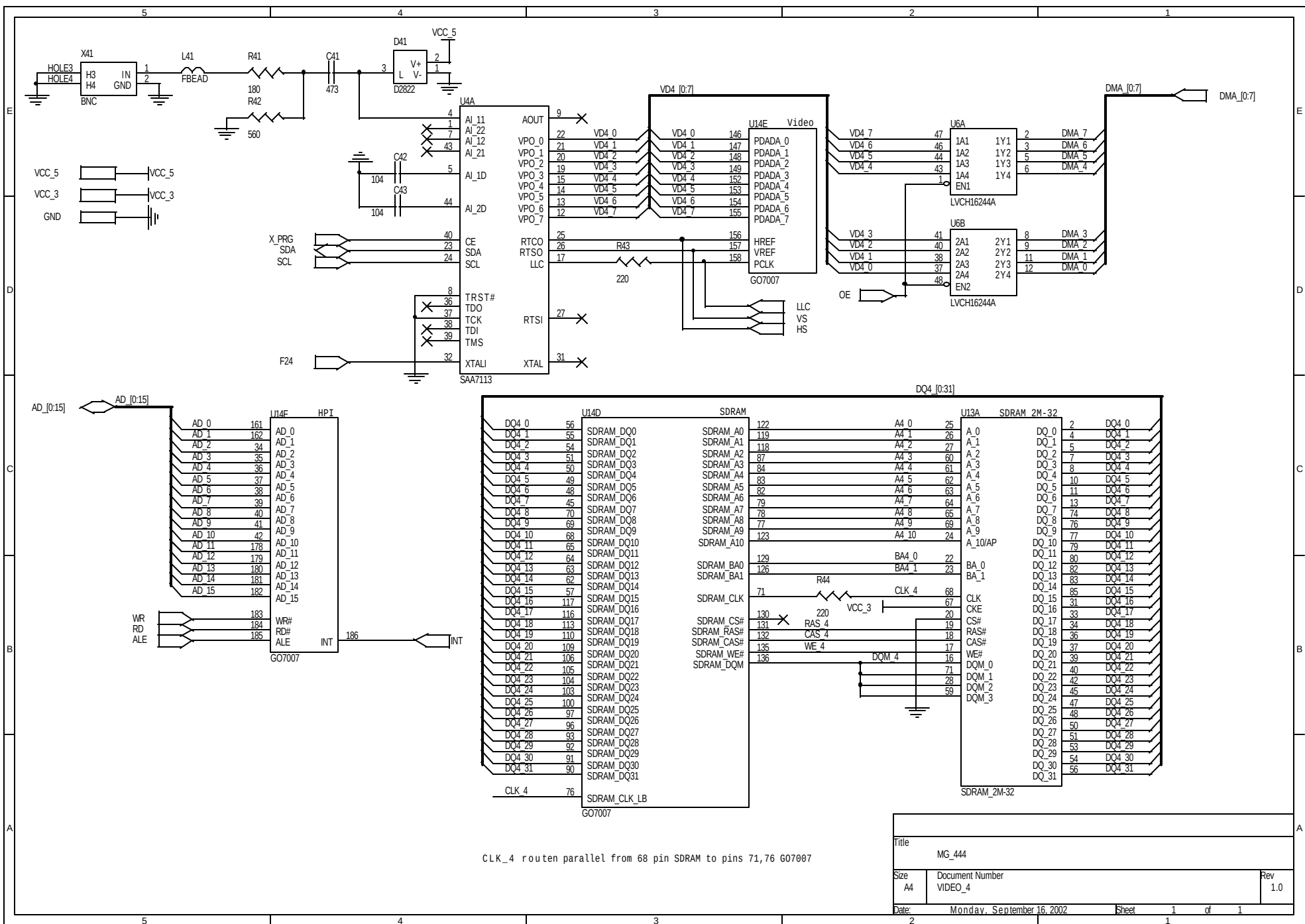
1

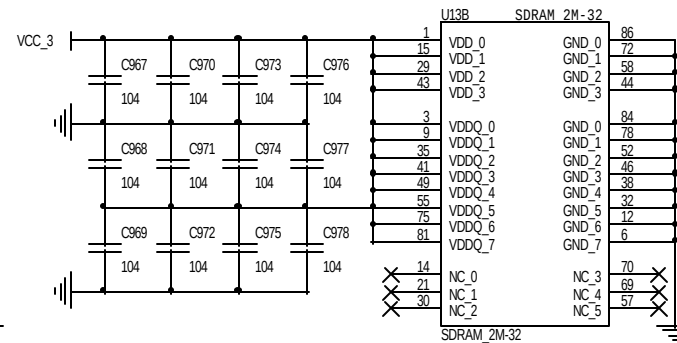
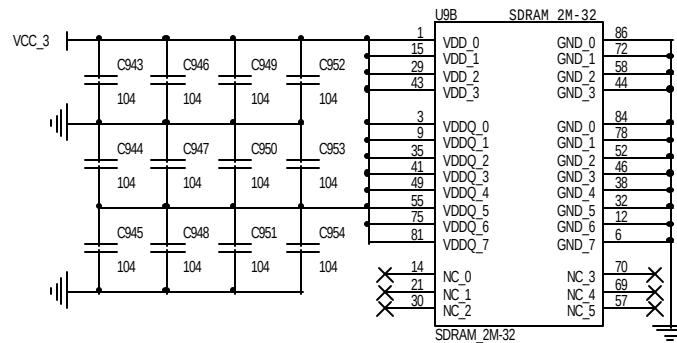
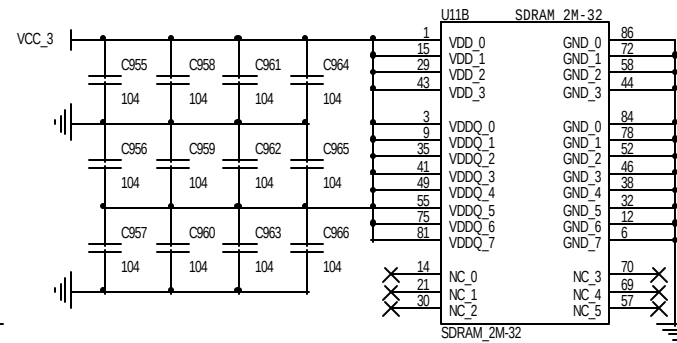
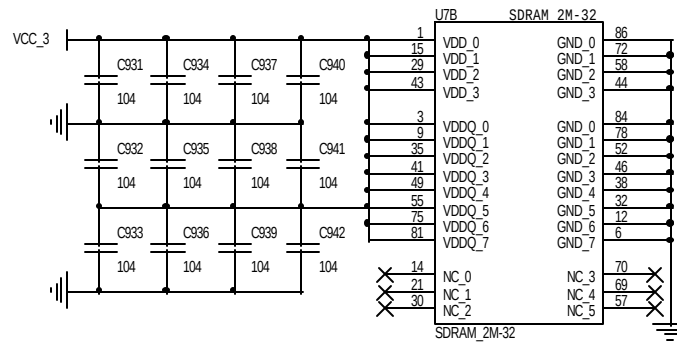
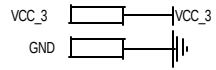




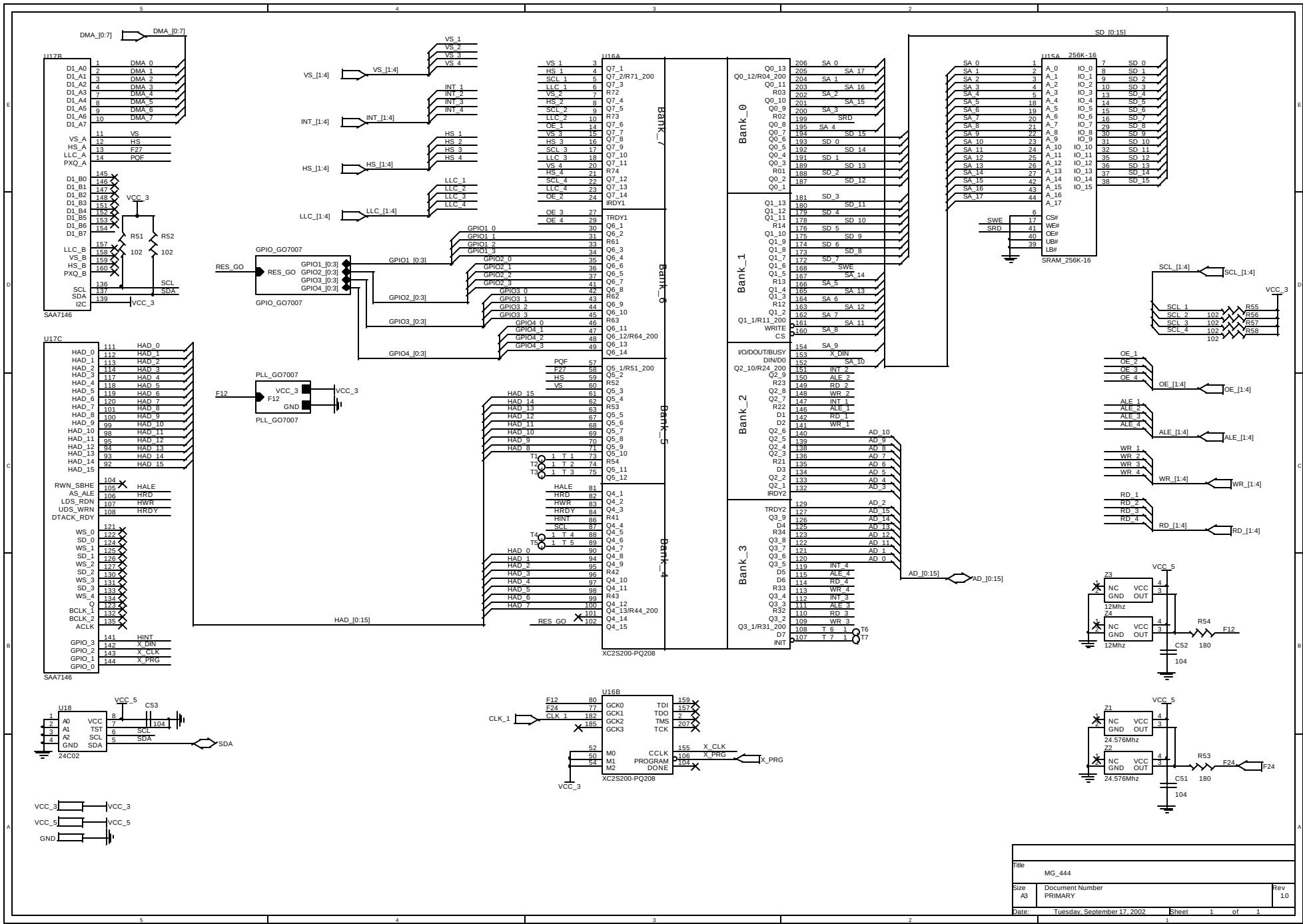
CLK\_3 routen parallel from 68 pin SDRAM to pins 71,76 G07007

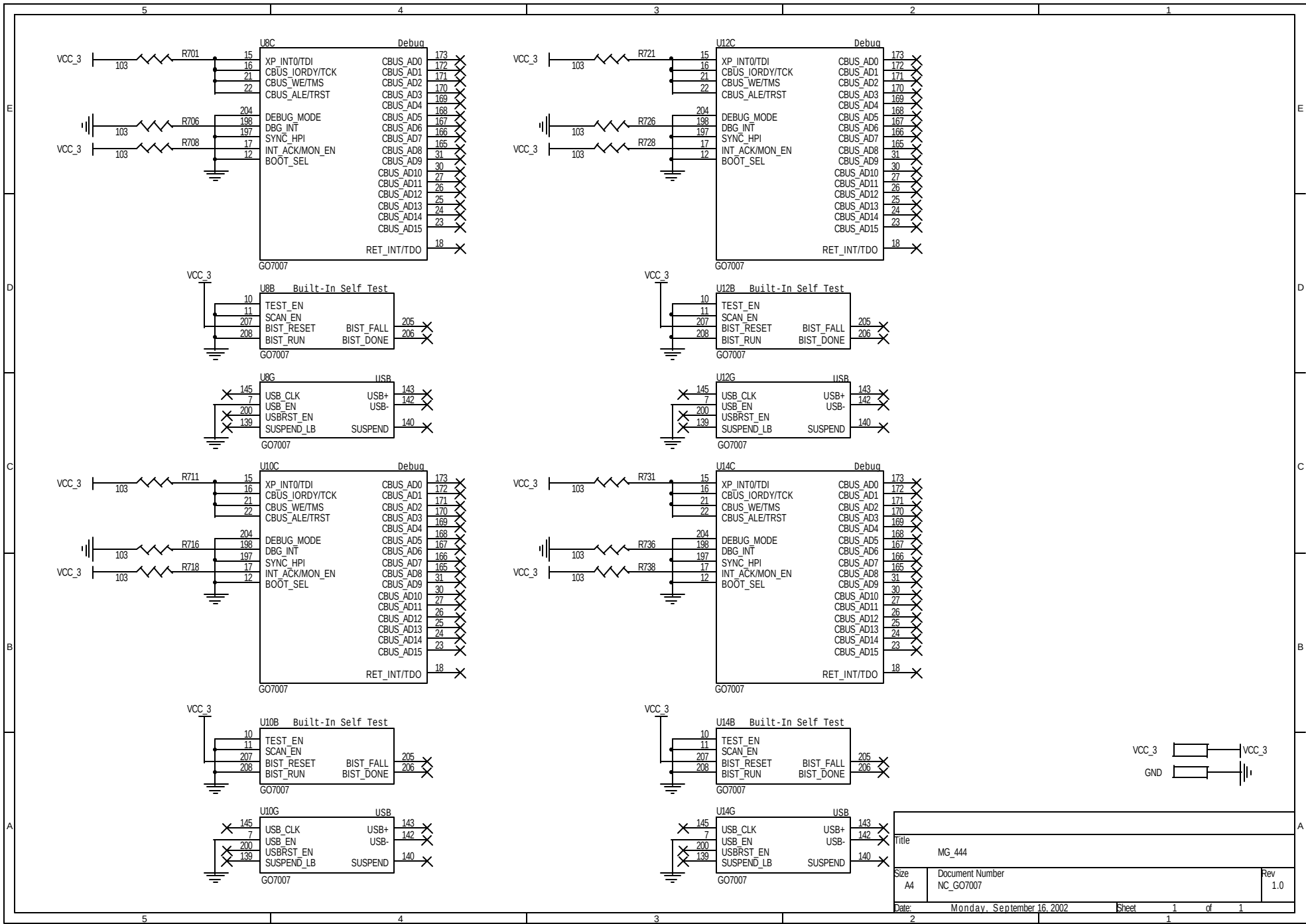
|                                  |                 |     |
|----------------------------------|-----------------|-----|
| Title                            |                 |     |
| MG_444                           |                 |     |
| Size                             | Document Number | Rev |
| A4                               | VIDEO_3         | 1.0 |
| Date: Monday, September 16, 2002 |                 |     |
| Sheet 1 of 1                     |                 |     |



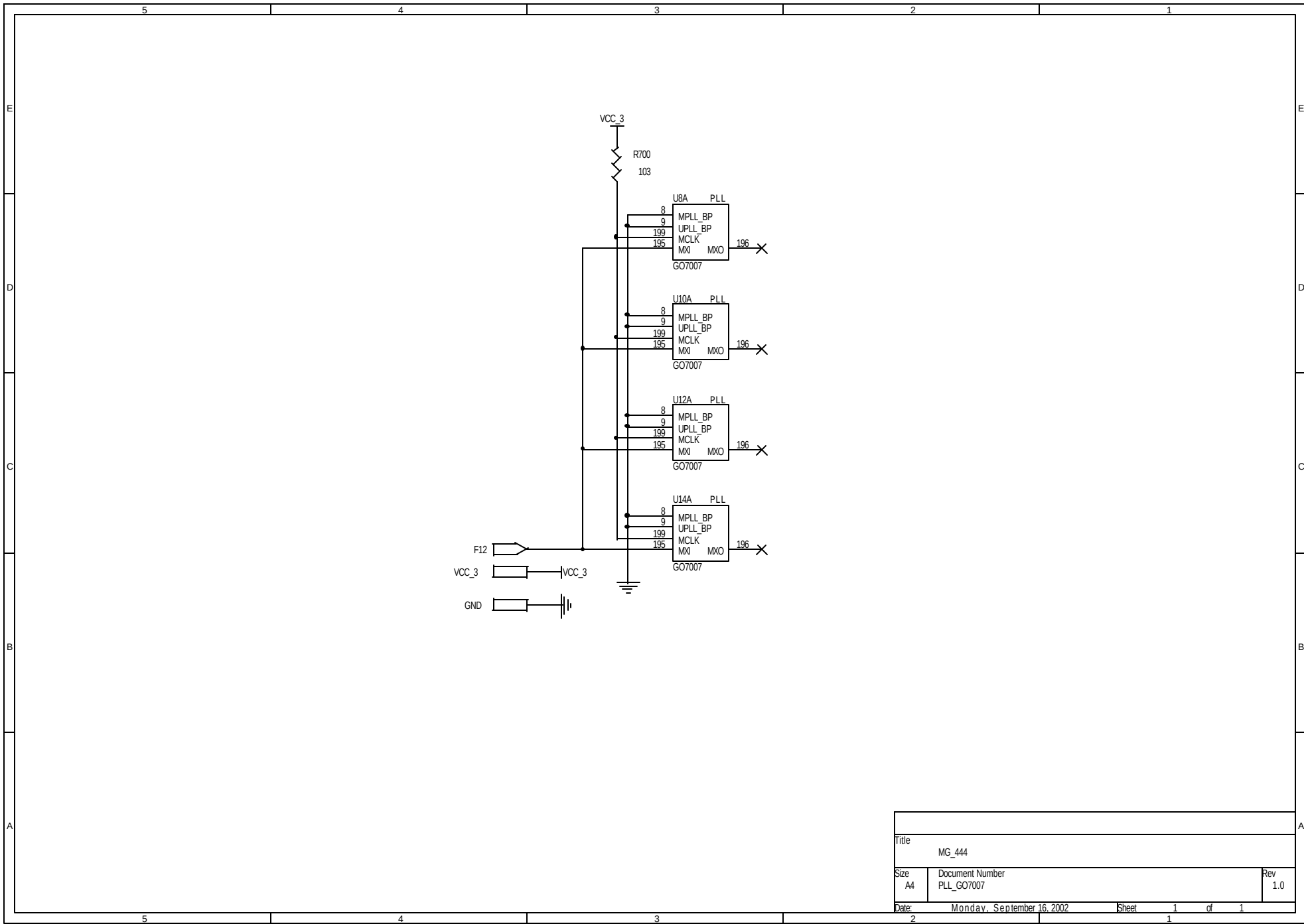


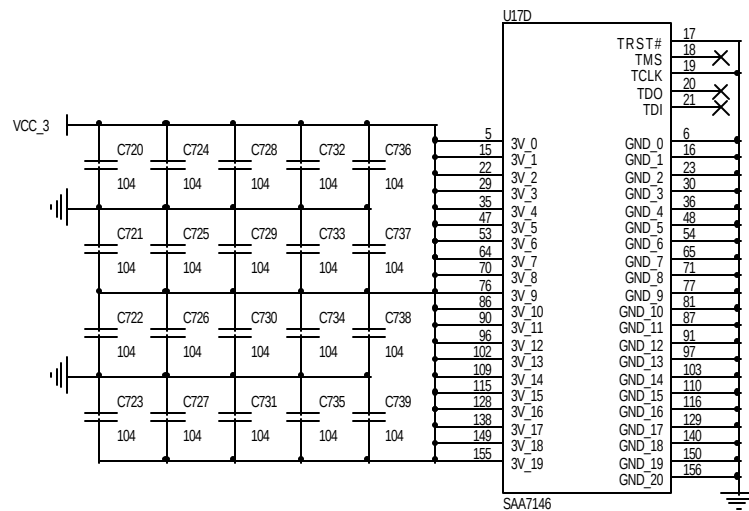
|                                   |                 |              |
|-----------------------------------|-----------------|--------------|
| Title                             |                 |              |
| MG_444                            |                 |              |
| Size                              | Document Number | Rev          |
| A4                                | POWER_SDRAM     | 1.0          |
| Date: Tuesday, September 17, 2002 |                 | Sheet 1 of 1 |
| 2                                 |                 | 1            |



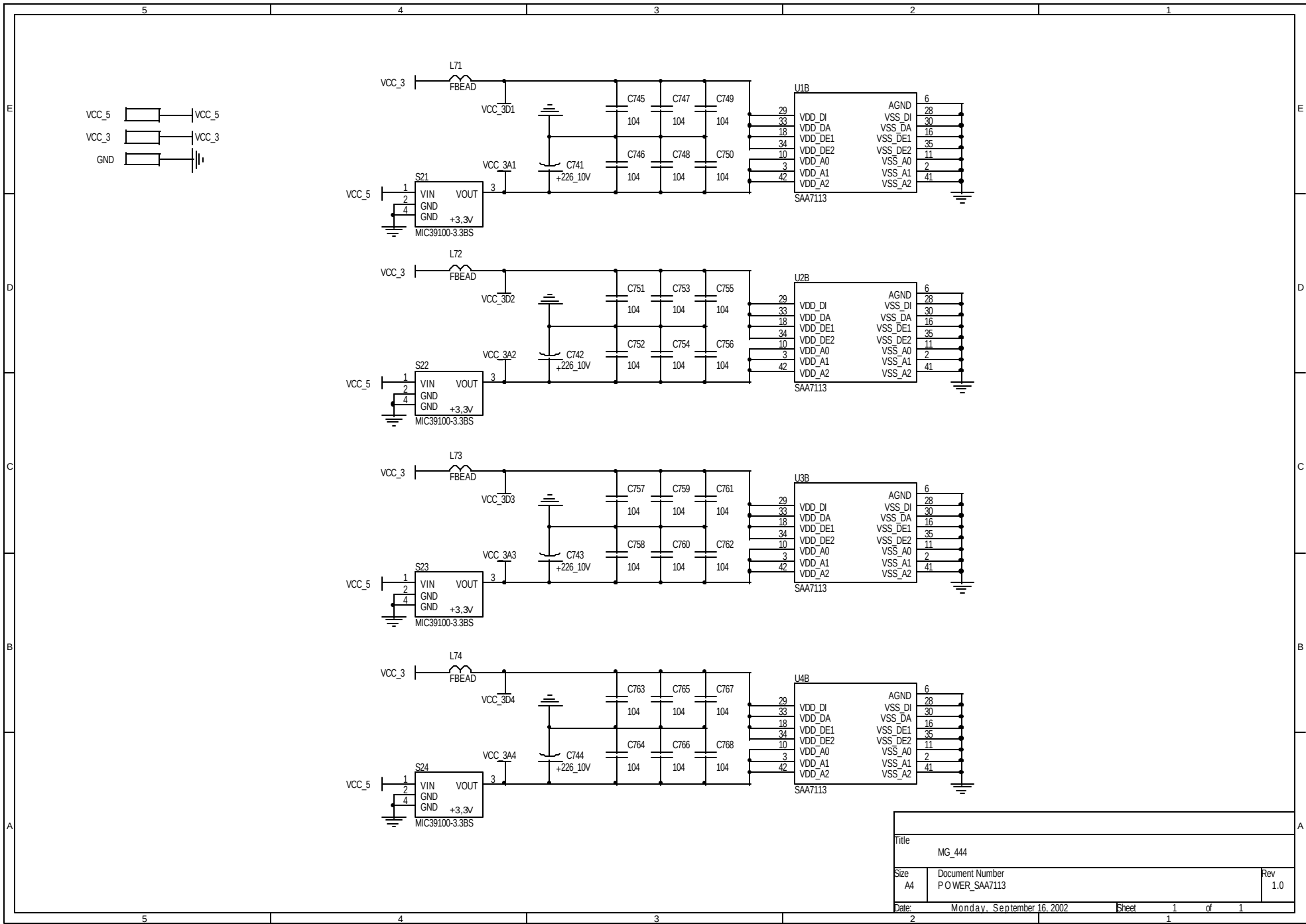


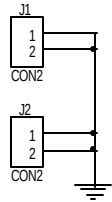
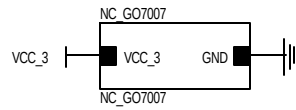
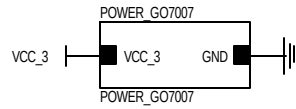
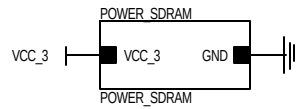
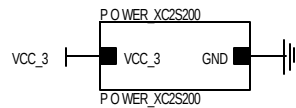
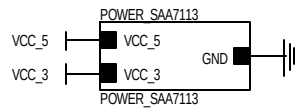
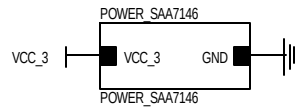
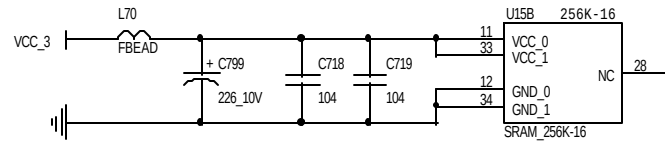
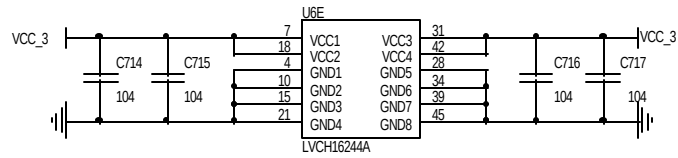
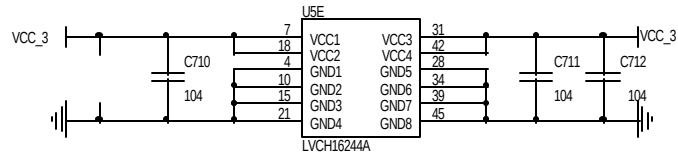
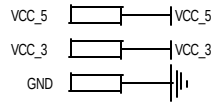
|        |                            |              |
|--------|----------------------------|--------------|
| Title  |                            |              |
| MG_444 |                            |              |
| Size   | Document Number            | Rev          |
| A4     | NC_GO7007                  | 1.0          |
| Date:  | Monday, September 16, 2002 | Sheet 1 of 1 |





|                 |                                  |       |            |
|-----------------|----------------------------------|-------|------------|
|                 |                                  |       |            |
| Title<br>MG_444 |                                  |       |            |
| Size<br>A4      | Document Number<br>POWER_SAA7146 |       | Rev<br>1.0 |
| Date:           | Tuesday, August 13, 2002         | Sheet | 1 of 1     |





|                                   |                 |     |
|-----------------------------------|-----------------|-----|
| Title                             |                 |     |
| MG_444                            |                 |     |
| Size                              | Document Number | Rev |
| A4                                | POWER           | 1.0 |
| Date: Tuesday, September 17, 2002 |                 |     |
| Sheet 1 of 1                      |                 |     |

# PCB TOP VIEW

MG444 v1.0 DARIM VISION

24. mhz

18. mhz

xc2s200

go7007

go7007

saa7146

go7007

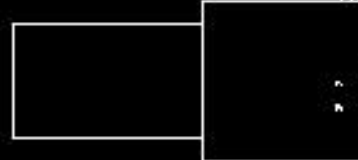
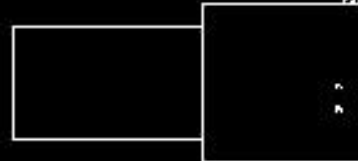
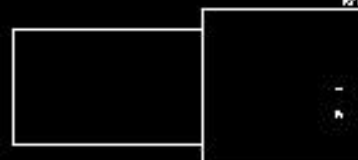
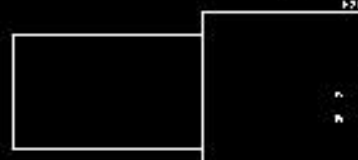
go7007

saa  
7113

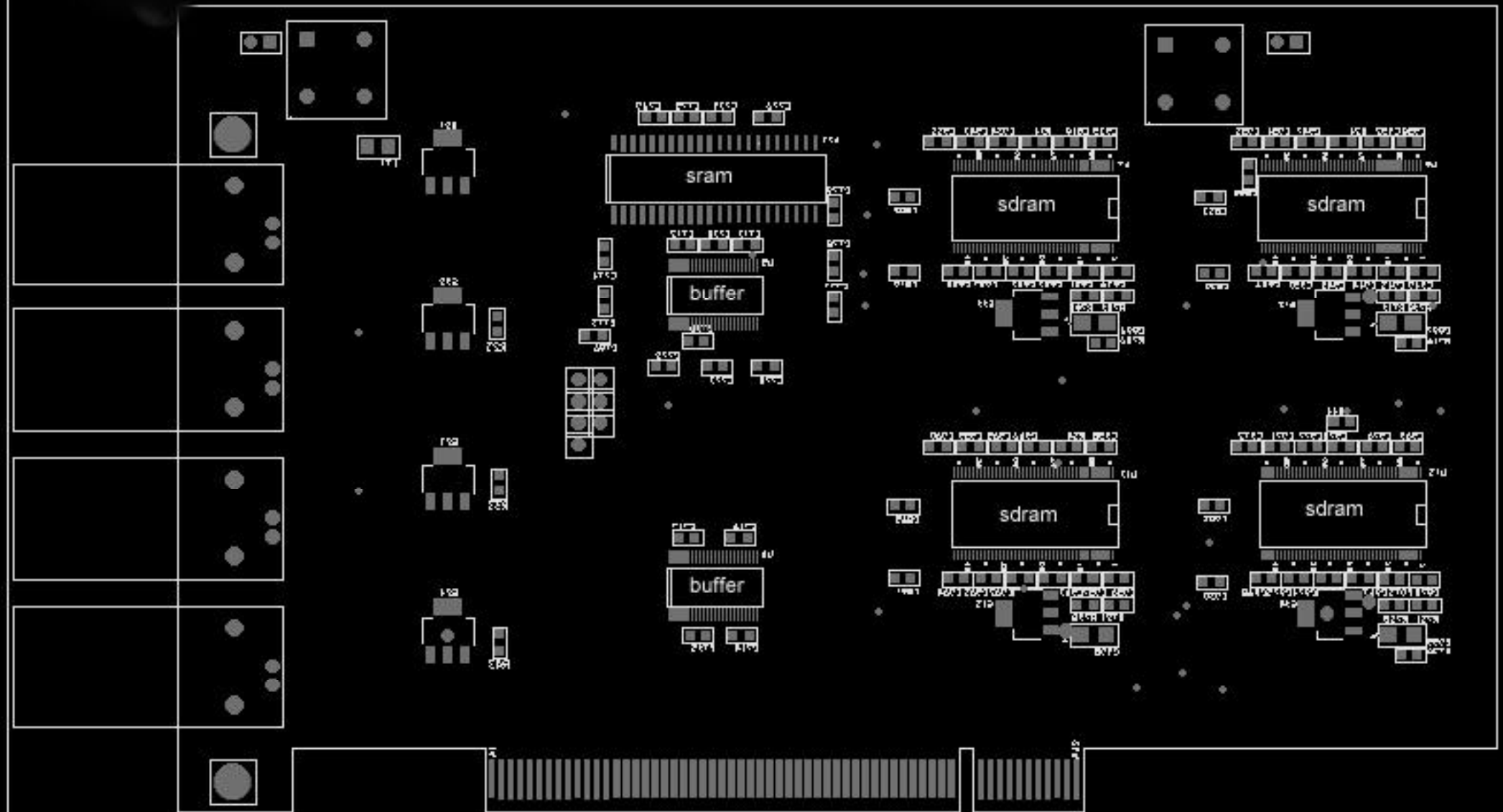
saa  
7113

saa  
7113

saa  
7113



## PCB BOTTOM VIEW



MG\_444 Revised: Wednesday, September 11, 2002

PCI Revision: 1.0

Bill Of Materials September 20,2002 12:33:05 Page1

| Item | Quantity | Reference | Part |
|------|----------|-----------|------|
|------|----------|-----------|------|

---

|   |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |     |
|---|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|
| 1 | 4   | C11,C21,C31,C41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 473 |
| 2 | 261 | C12,C13,C22,C23,C32,C33,<br>C42,C43,C51,C52,C53,C710,<br>C711,C712,C714,C715,C716,<br>C717,C718,C719,C720,C721,<br>C722,C723,C724,C725,C726,<br>C727,C728,C729,C730,C731,<br>C732,C733,C734,C735,C736,<br>C737,C738,C739,C745,C746,<br>C747,C748,C749,C750,C751,<br>C752,C753,C754,C755,C756,<br>C757,C758,C759,C760,C761,<br>C762,C763,C764,C765,C766,<br>C767,C768,C769,C770,C771,<br>C772,C773,C774,C775,C776,<br>C777,C778,C779,C780,C781,<br>C782,C783,C784,C785,C786,<br>C787,C788,C789,C790,C791,<br>C792,C793,C794,C795,C796,<br>C800,C801,C802,C806,C807,<br>C808,C809,C810,C811,C812,<br>C813,C814,C815,C816,C817,<br>C818,C819,C820,C821,C822,<br>C823,C824,C825,C826,C827, | 104 |

C828,C829,C830,C831,C832,  
 C833,C834,C837,C838,C839,  
 C840,C841,C843,C844,C845,  
 C846,C847,C848,C849,C850,  
 C851,C852,C853,C854,C855,  
 C856,C857,C858,C859,C860,  
 C861,C862,C863,C864,C865,  
 C868,C869,C870,C871,C872,  
 C873,C874,C875,C876,C877,  
 C878,C879,C880,C881,C882,  
 C883,C884,C885,C886,C887,  
 C888,C889,C890,C891,C892,  
 C900,C901,C902,C903,C904,  
 C905,C908,C909,C910,C912,  
 C913,C914,C915,C916,C917,  
 C918,C919,C920,C921,C922,  
 C923,C924,C925,C926,C927,  
 C928,C929,C930,C931,C932,  
 C933,C934,C935,C936,C937,  
 C938,C939,C940,C941,C942,  
 C943,C944,C945,C946,C947,  
 C948,C949,C950,C951,C952,  
 C953,C954,C955,C956,C957,  
 C958,C959,C960,C961,C962,  
 C963,C964,C965,C966,C967,  
 C968,C969,C970,C971,C972,  
 C973,C974,C975,C976,C977,  
 C978,C981,C983,C985,C987,  
 C989,C991,C993,C995

|   |    |                                                       |         |
|---|----|-------------------------------------------------------|---------|
| 3 | 10 | C706,C741,C742,C743,C744,<br>C799,C996,C997,C998,C999 | 226_10V |
| 4 | 4  | D11,D21,D31,D41 D2822                                 |         |

|    |    |                                |               |
|----|----|--------------------------------|---------------|
| 5  | 2  | J1,J2 CON2                     |               |
| 6  | 9  | L11,L21,L31,L41,L70,L71,       | FBEAD         |
|    |    | L72,L73,L74                    |               |
| 7  | 6  | R11,R21,R31,R41,R53,R54        | 180           |
| 8  | 4  | R12,R22,R32,R42                | 560           |
| 9  | 8  | R13,R14,R23,R24,R33,R34,       | 220           |
|    |    | R43,R44                        |               |
| 10 | 6  | R51,R52,R55,R56,R57,R58        | 102           |
| 11 | 13 | R700,R701,R706,R708,R711,      | 103           |
|    |    | R716,R718,R721,R726,R728,      |               |
|    |    | R731,R736,R738                 |               |
| 12 | 4  | S11,S12,S13,S14 MIC39100-1.8BS |               |
| 13 | 1  | S16 MIC39100-2.5BS             |               |
| 14 | 4  | S21,S22,S23,S24 MIC39100-3.3BS |               |
| 15 | 7  | T1,T2,T3,T4,T5,T6,T7           | TP            |
| 16 | 4  | U1,U2,U3,U4                    | SAA7113       |
| 17 | 2  | U5,U6                          | LVCH16244A    |
| 18 | 4  | U7,U9,U11,U13                  | SDRAM_2M-32   |
| 19 | 4  | U8,U10,U12,U14                 | GO7007        |
| 20 | 1  | U15                            | SRAM_256K-16  |
| 21 | 1  | U16                            | XC2S200-PQ208 |
| 22 | 1  | U17                            | SAA7146       |
| 23 | 1  | U18                            | 24C02         |
| 24 | 1  | X1                             | PCI_AB        |
| 25 | 4  | X11,X21,X31,X41                | BNC           |
| 26 | 2  | Z1,Z2                          | 24.576Mhz     |
| 27 | 2  | Z4,Z3                          | 12Mhz         |