## P362: NV44A, TSOP MEMORY x16

Page1: P362 Overview Page2: AGP Interface

Page3: Frame Buffer Interface Page4: Memory 1st bank 0..31 Page5: Memory 1st bank 32..63 Page6: DAC-A, DB15 Connector Page7: DAC-B, MUX, DB15

Page8: TMDS Interface

Page9: MIOA, MIOB Interface, LPC-ROM

Page10: STRAPS, Mechanical Parts

Pagel1: XTAL, GPIO, BIOS, Fan Control, JTAG Headers

Page12: VIDEO CAPTURE: SAA7115

Page13: PowerSupplyI: NVVDD, FBVDDQ

Page14: PowerSupplyII: 5V, DDC5V, A3V3, F3V3, TMDS\_PLLVDD

Page15: VIDEO CONNECTORS: MiniDIN, 2x6 HDR

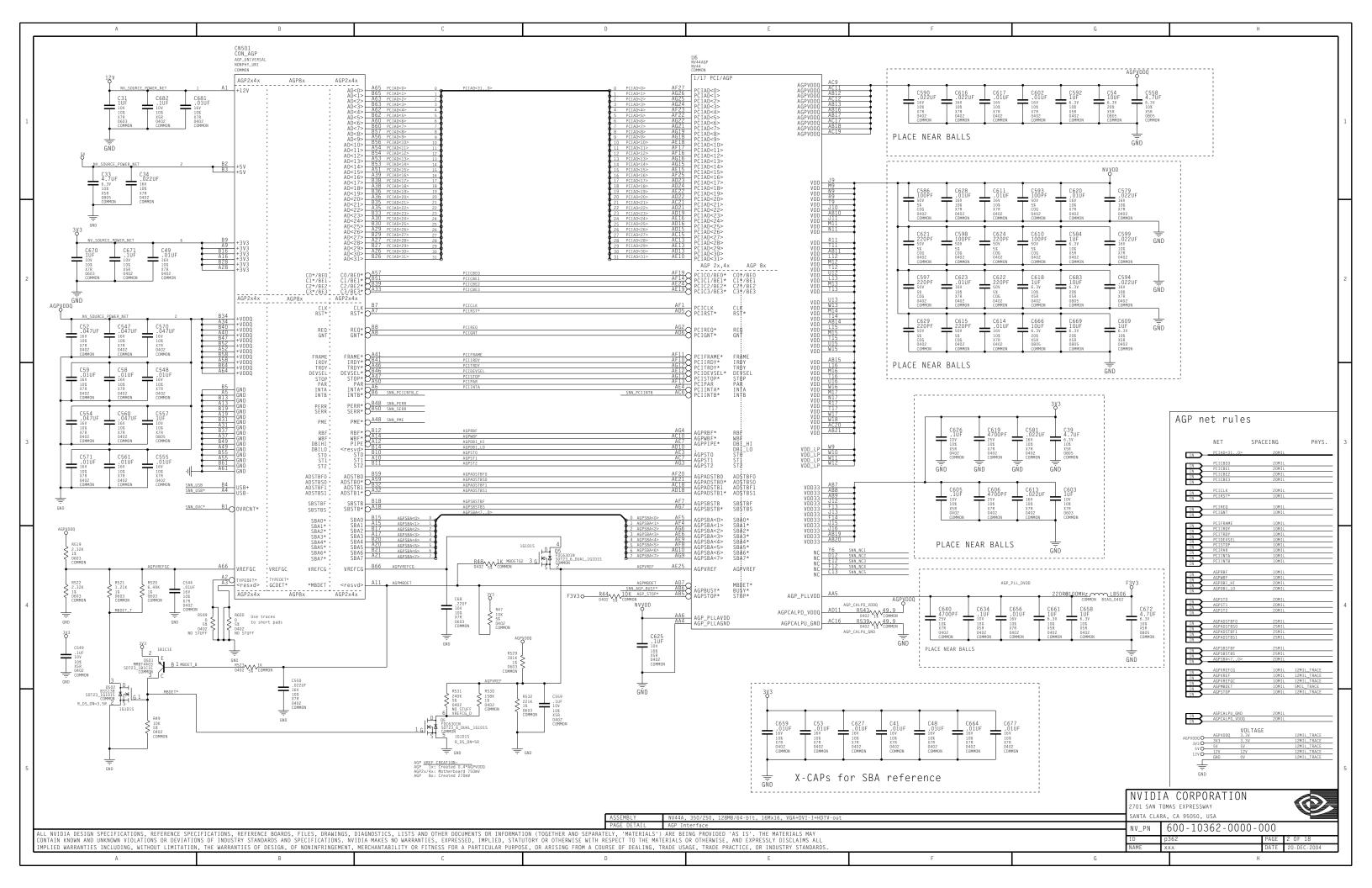
SKU	VARIANT	NVPN	ASSEMBLY
В	BASE	600-f0ppp-xxxx-vvv	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
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3	0002	600-10362-0002-000	<undefined></undefined>
4	0003	600-10362-0003-000	NV44A, 350/250, 128MB/64-bit, 16Mx16, VGA+DVI-I+HDTV-out, VIDEO IN
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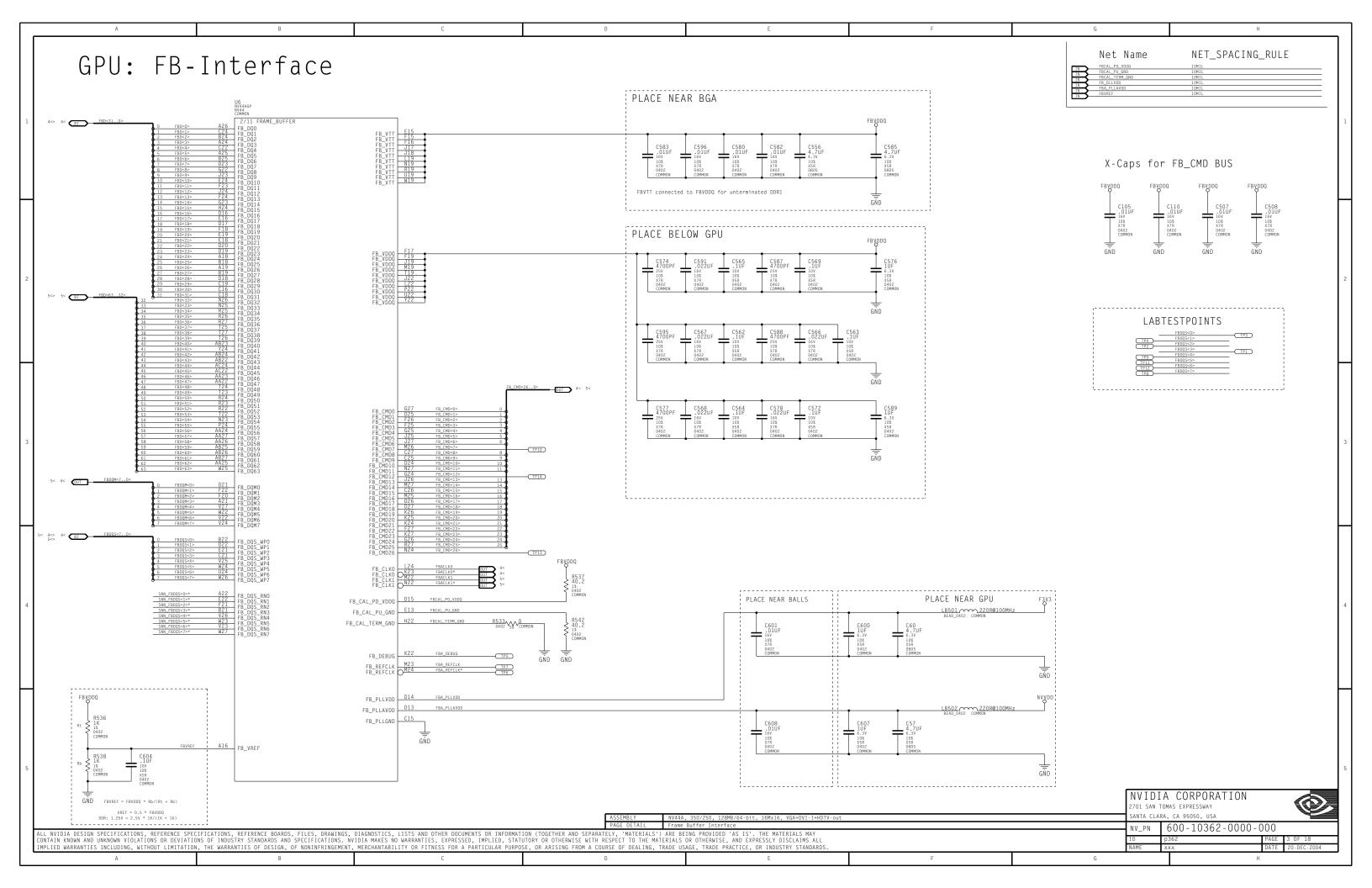
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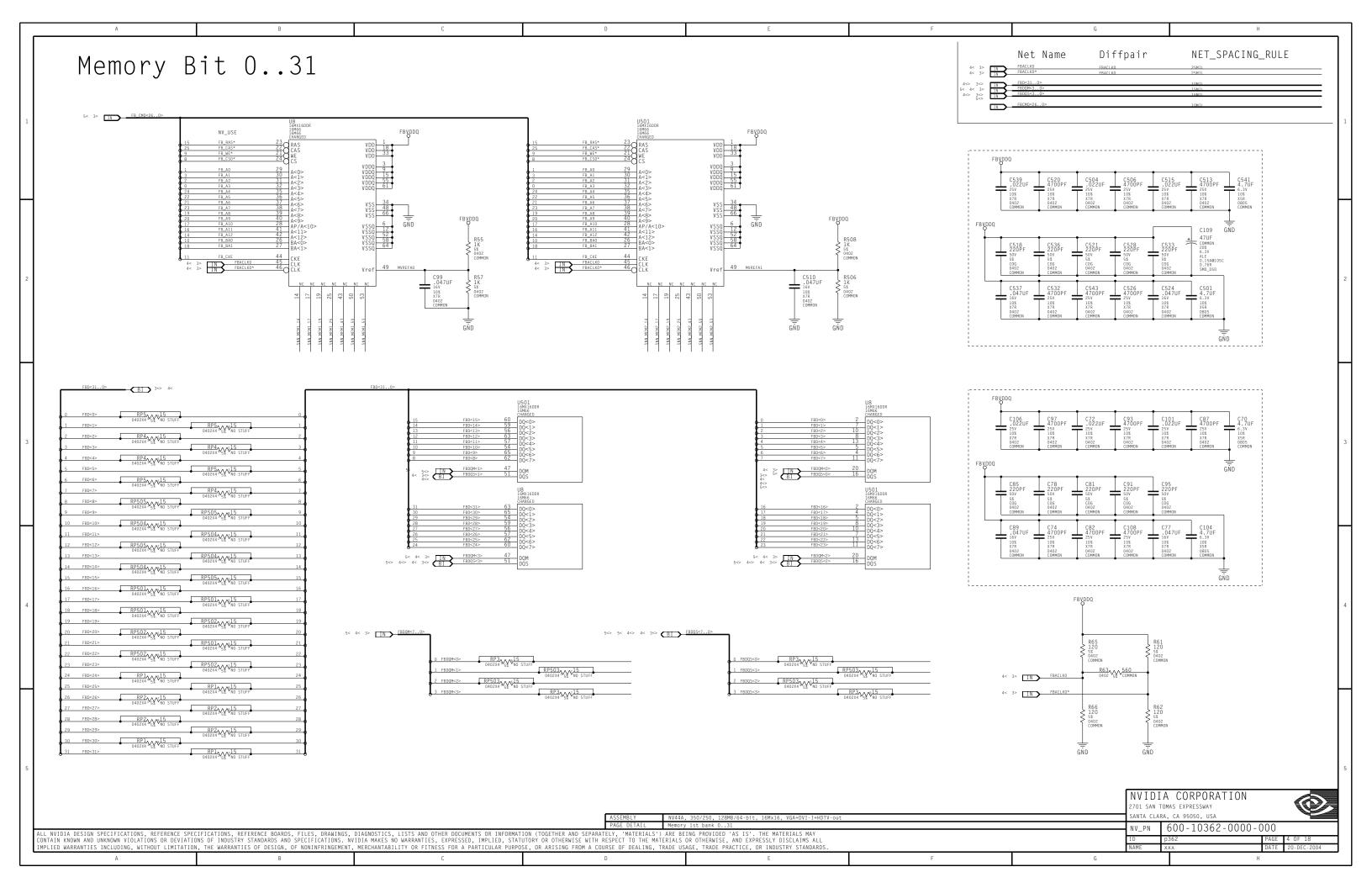
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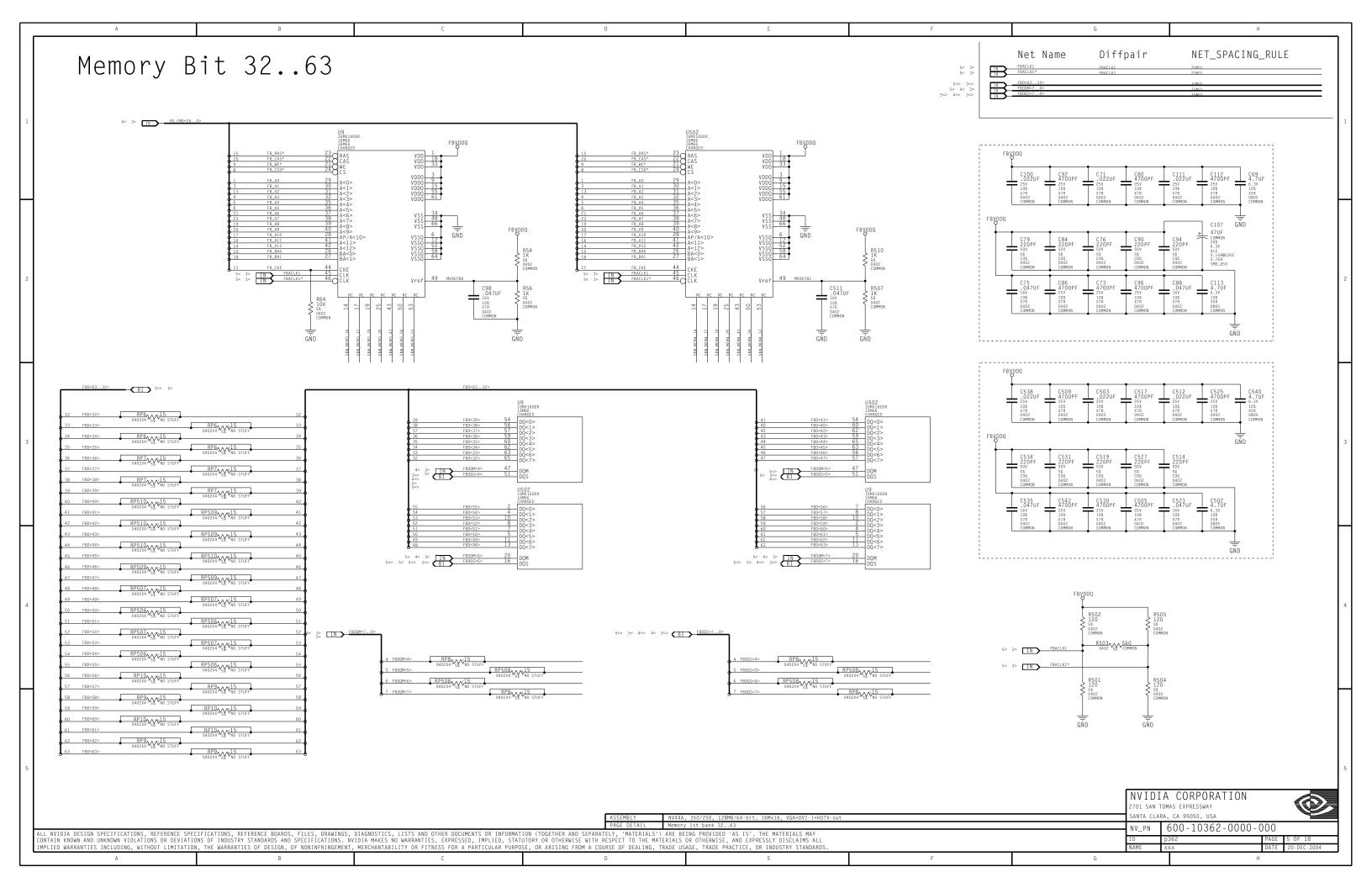
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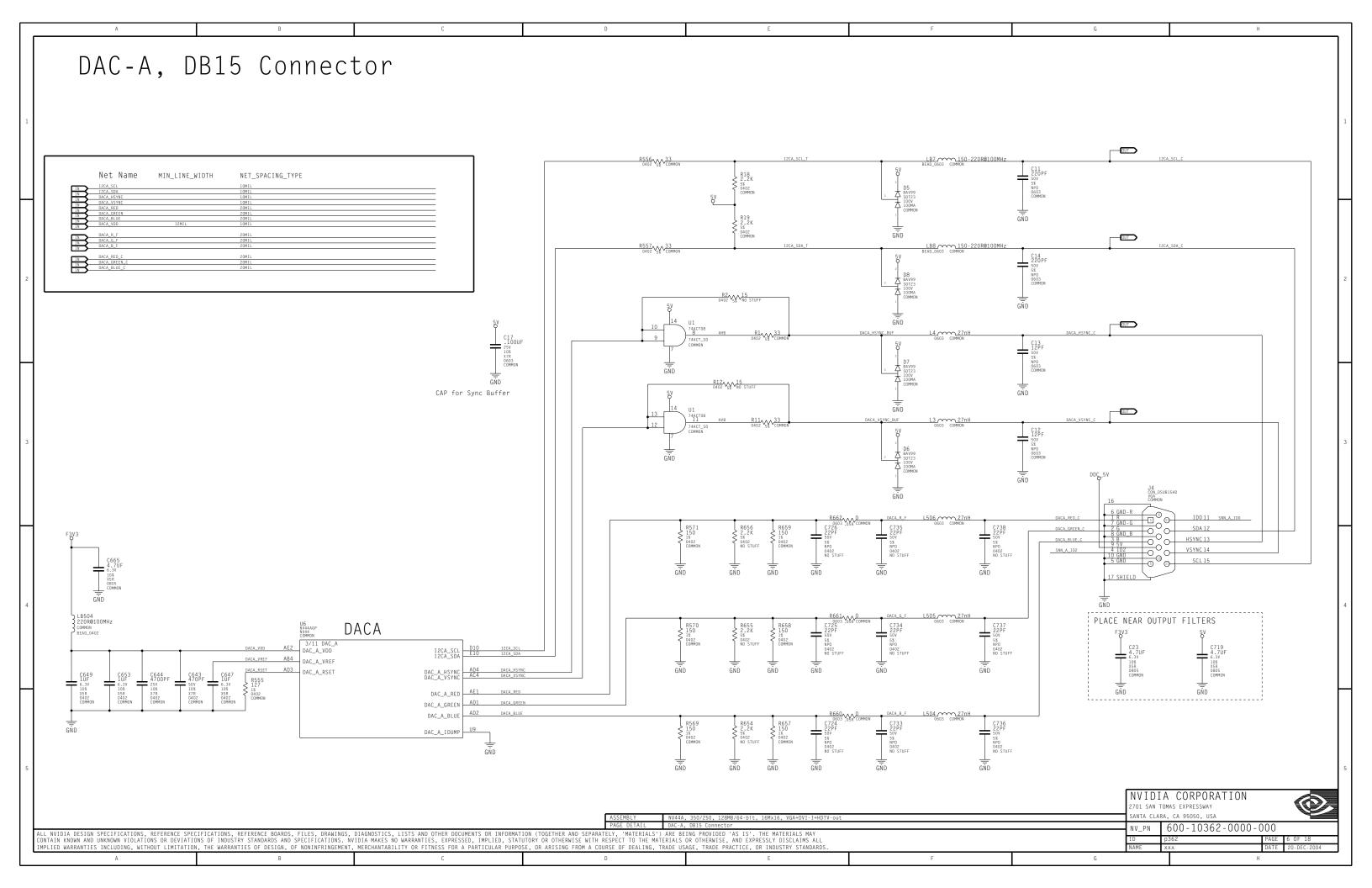
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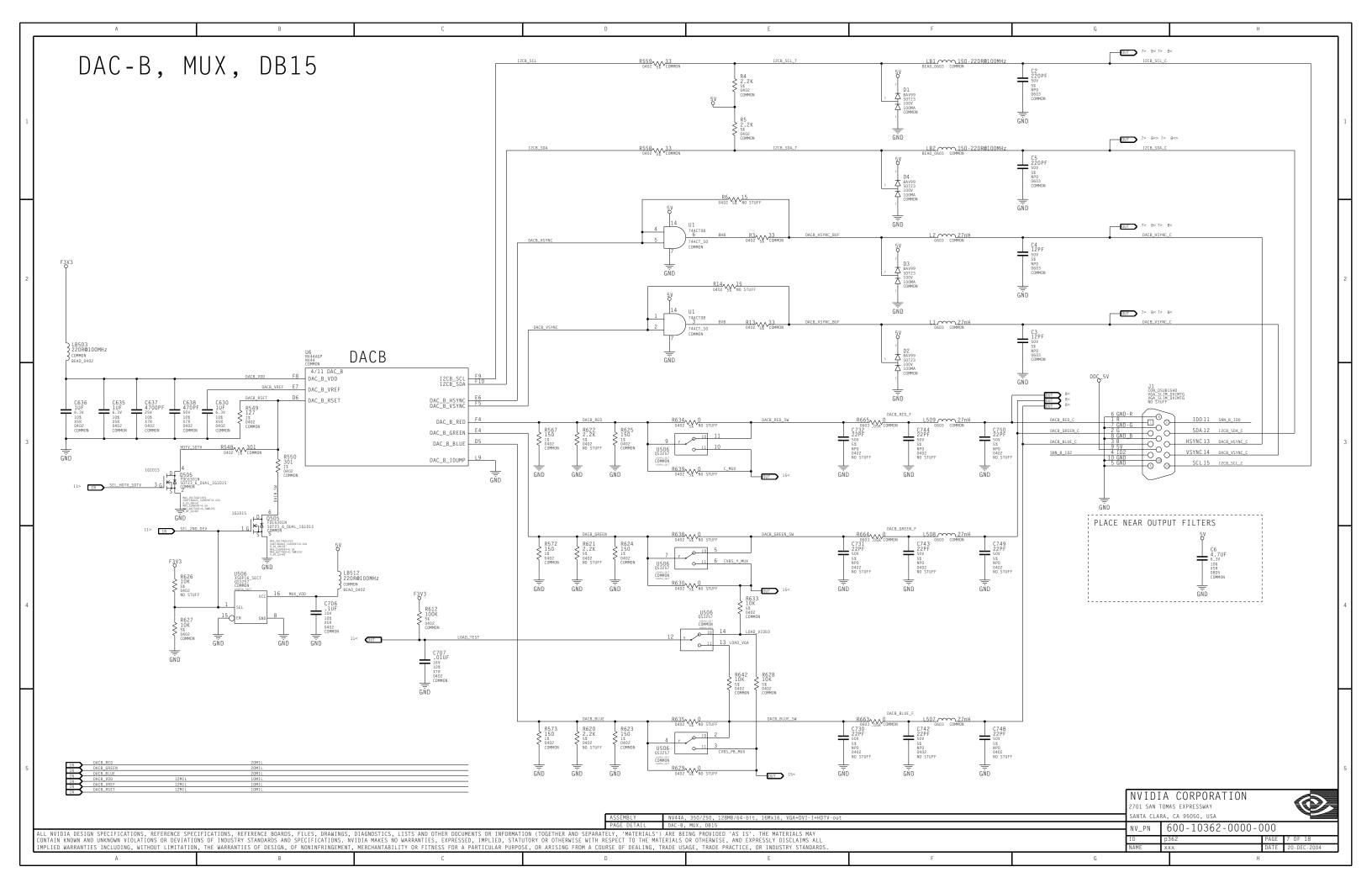


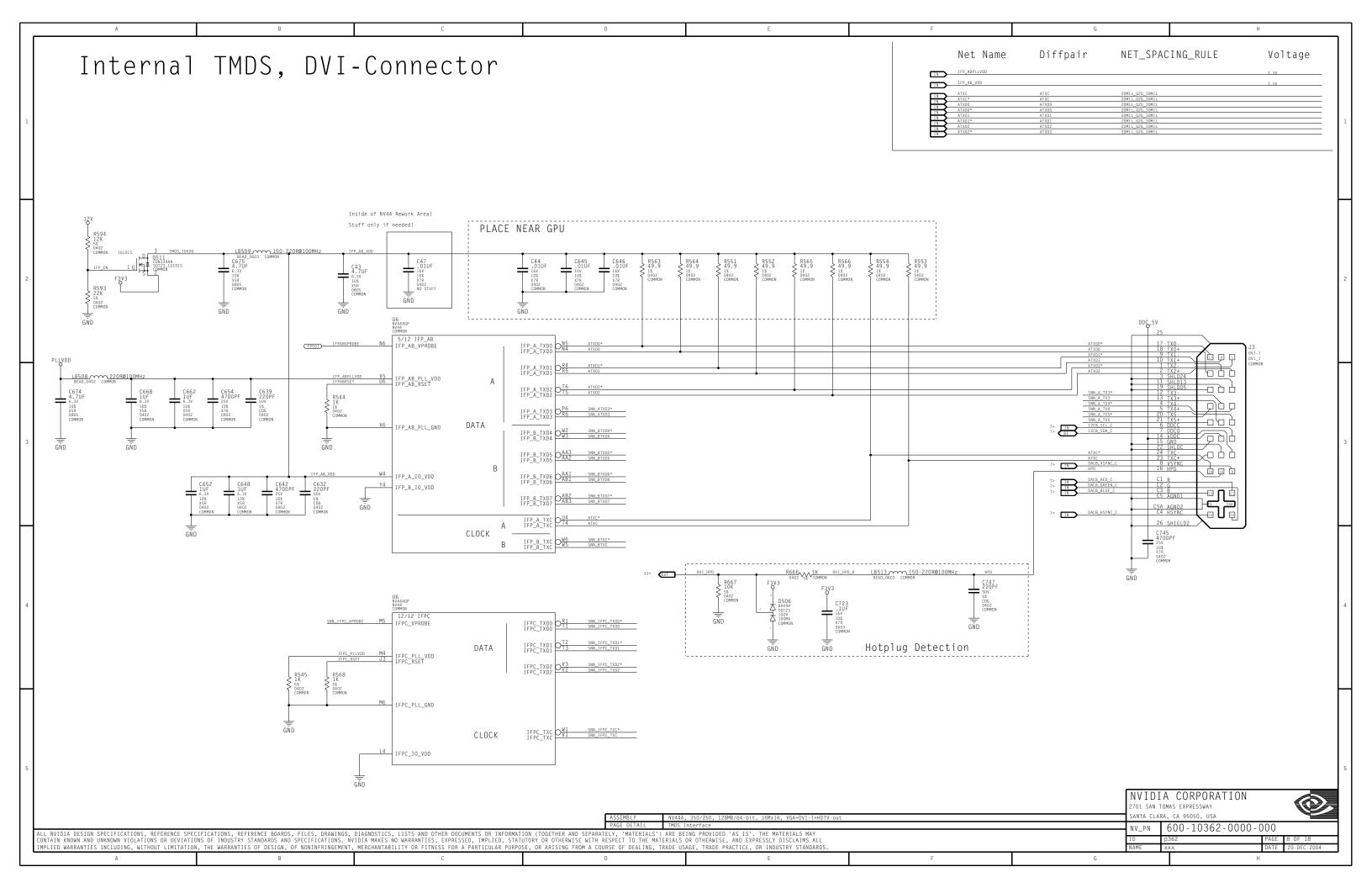


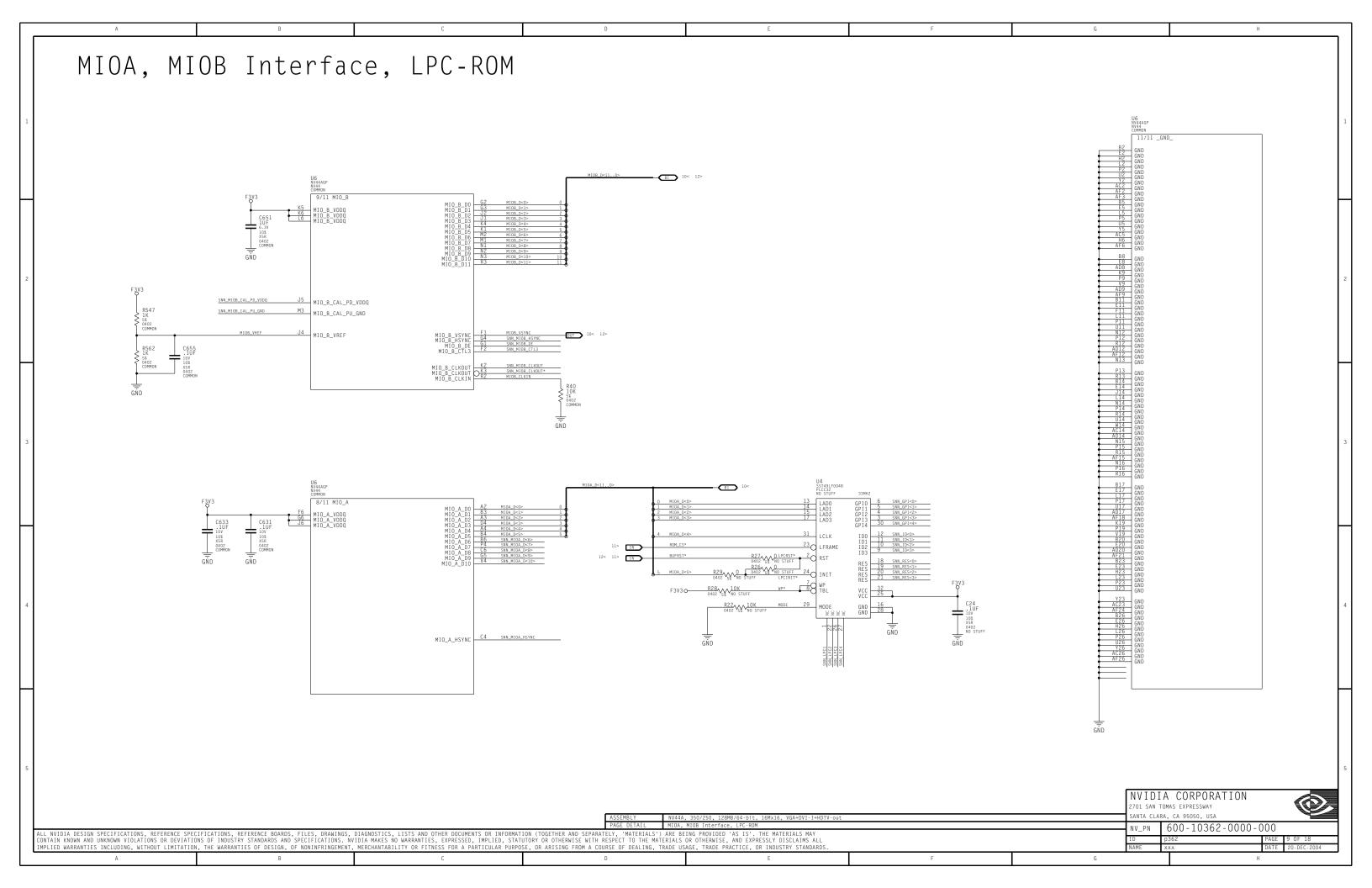


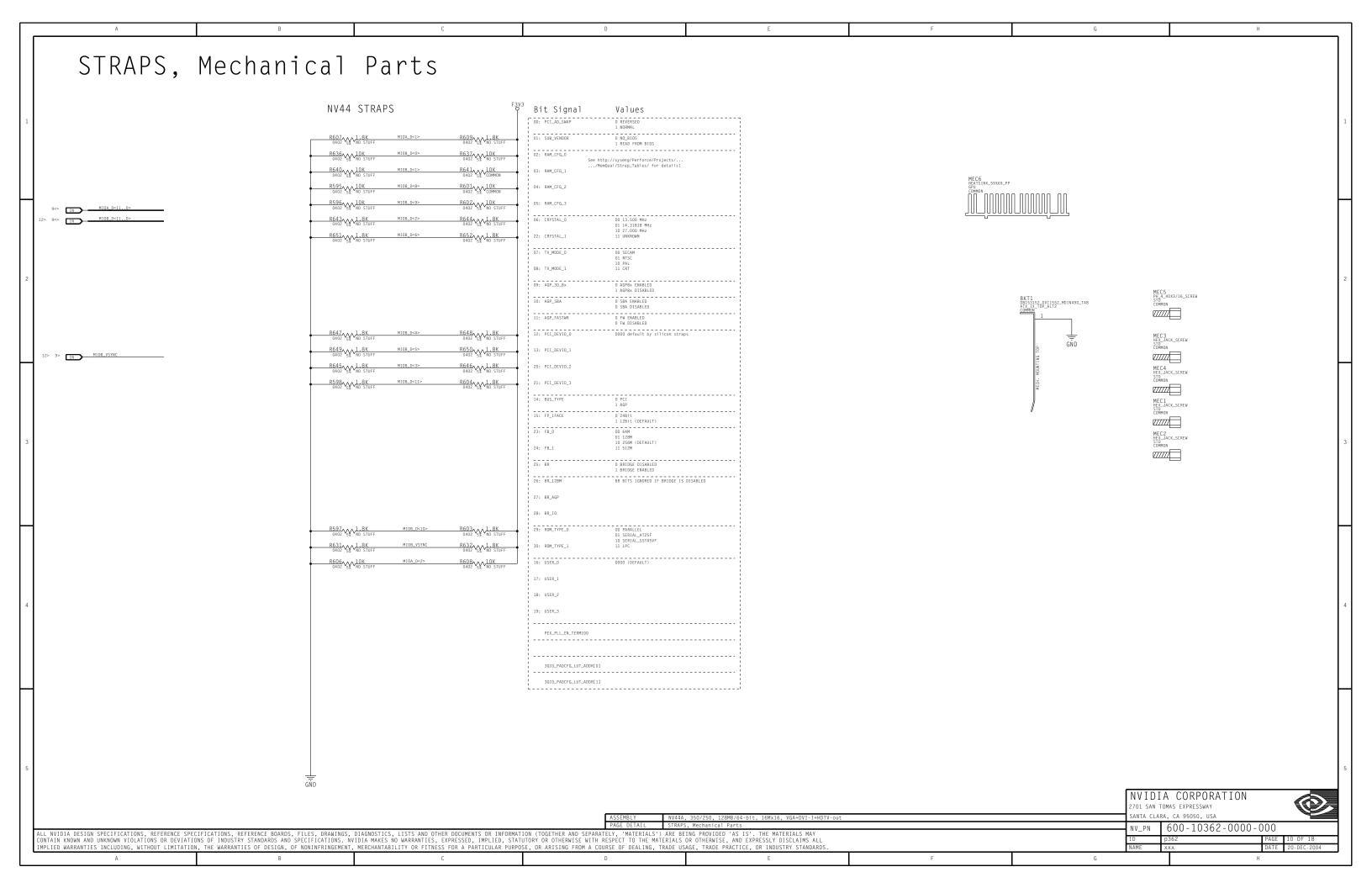


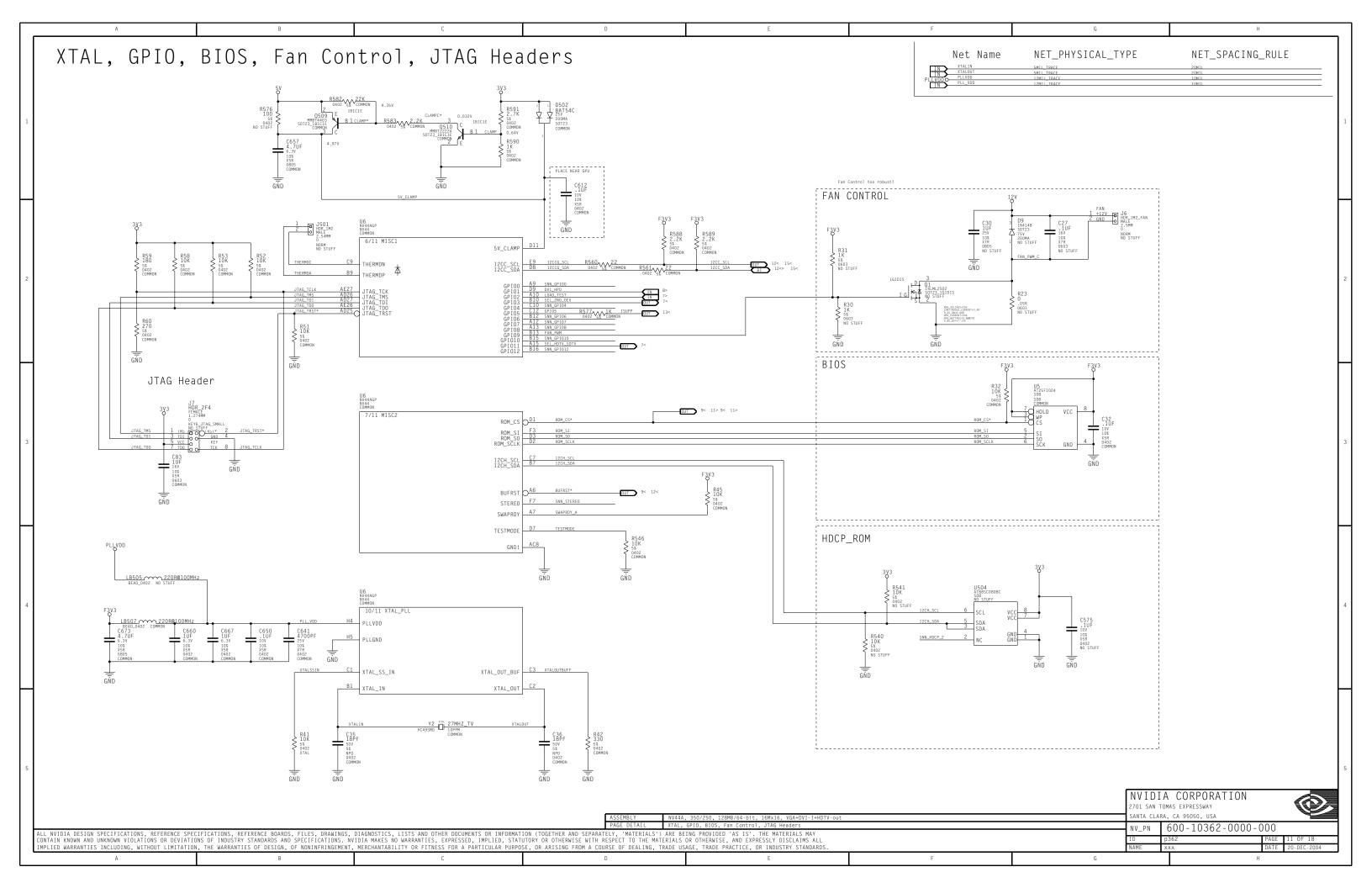


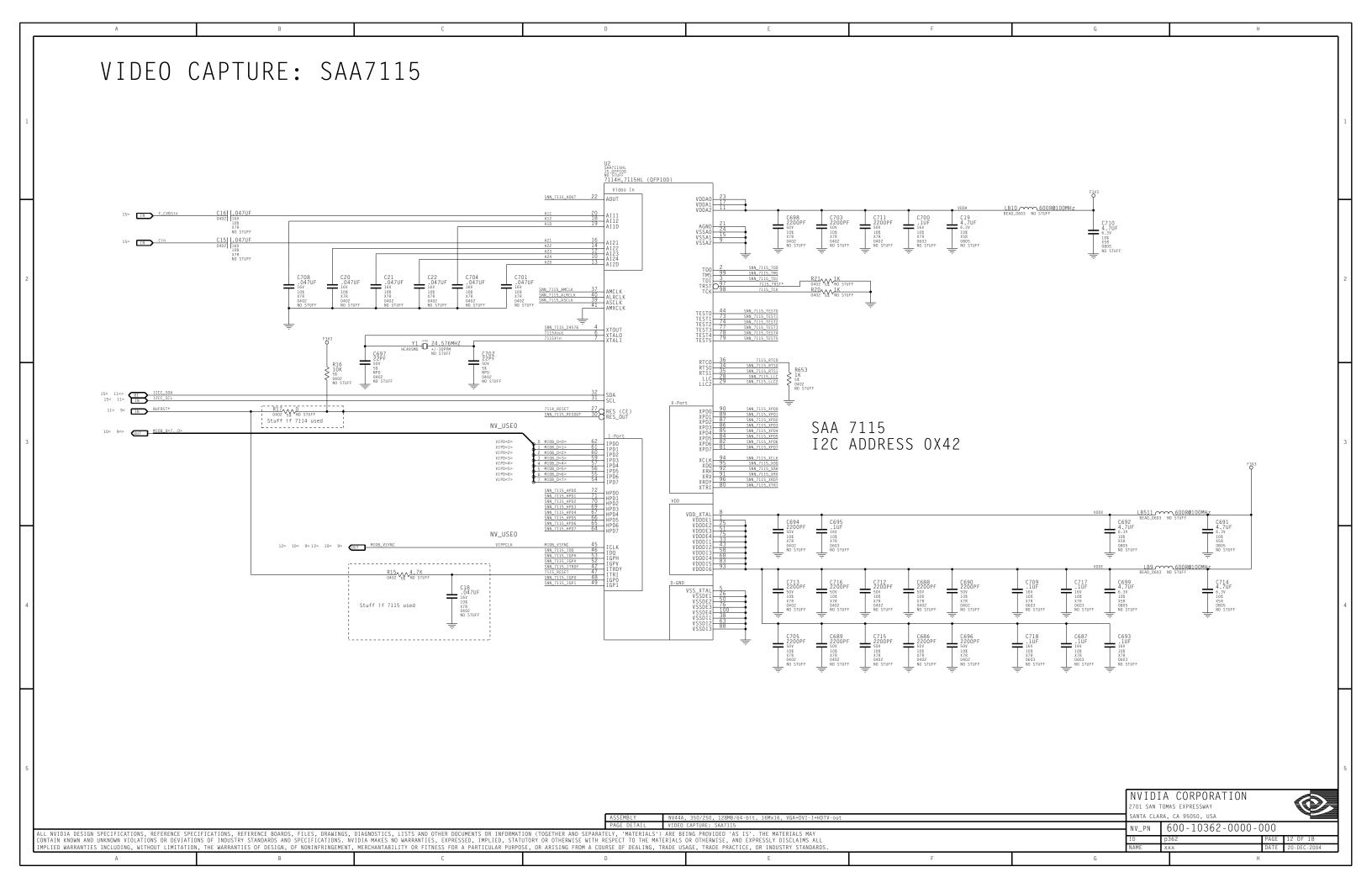


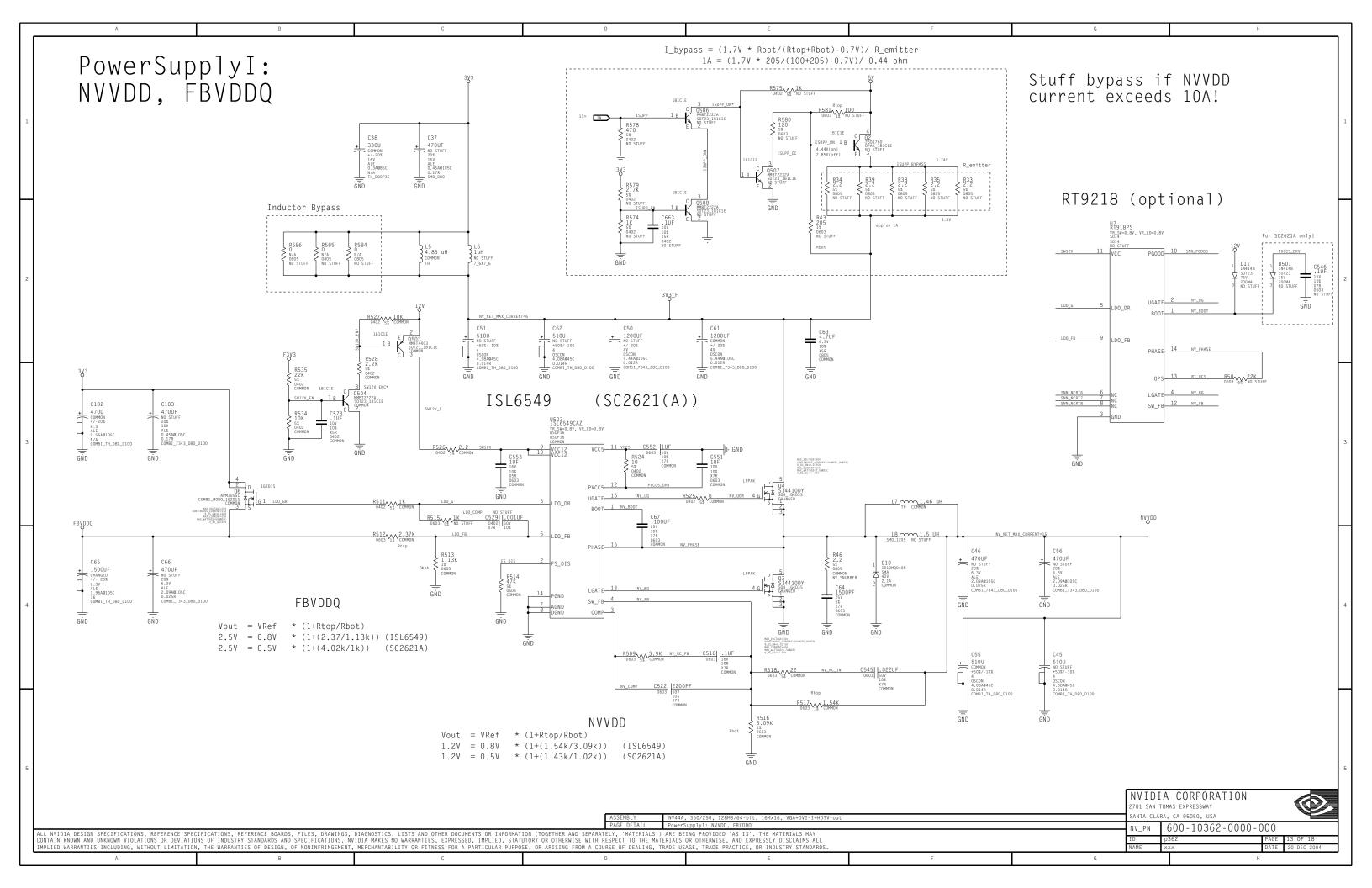




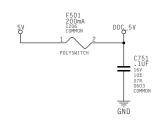


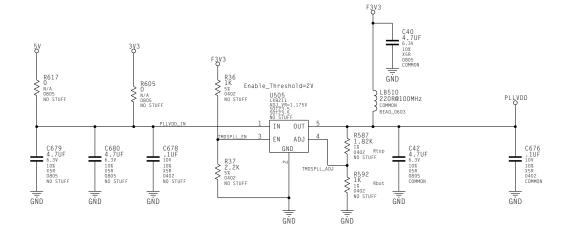






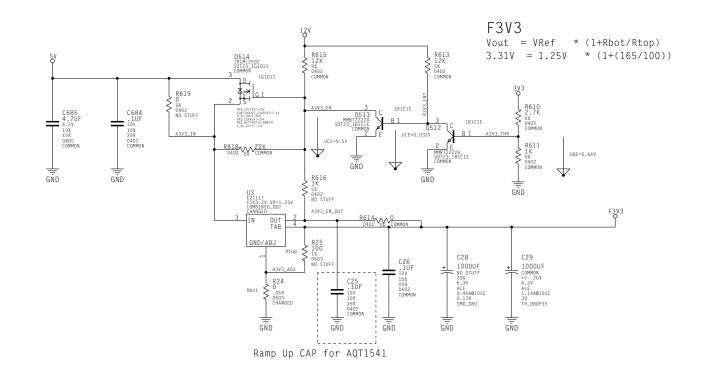
## PowerSupplyII: DDC5V, F3V3, TMDS\_PLLVDD





TMDS\_PLLVDD Vout = VRef \* (1+Rtop/Rbot) 3.31V = 1.175V \* (1+(1.82k/1k))

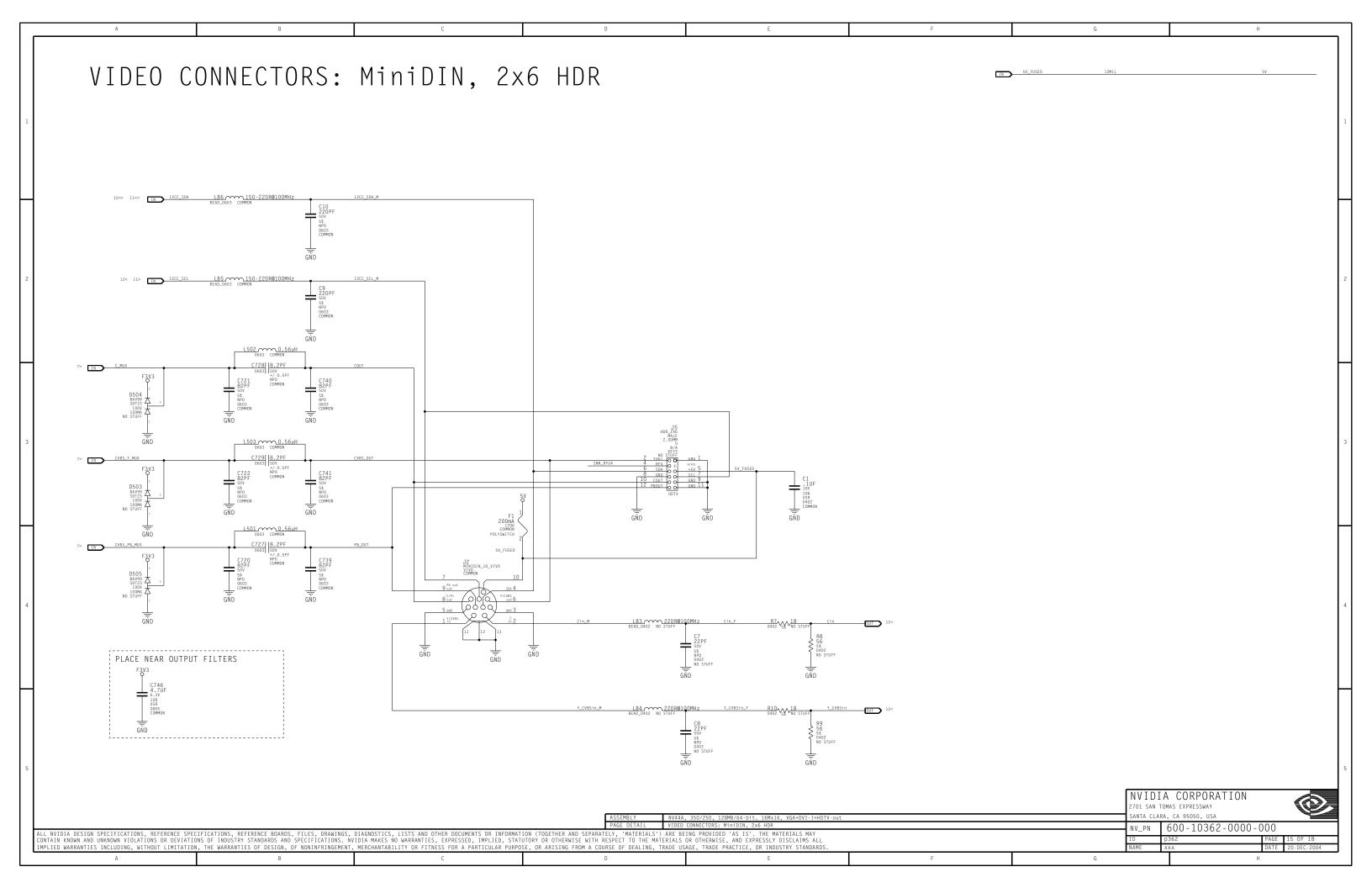
Net Name	NET_PHYSICAL_TYPE	Voltage
5V O 5V DDC_5V O DDC_5V	12MIL 12MIL	5V
F3V3 OF3V3	12MIL	3.3V
PLLVDD	. Davis	2.24
PLLVDD  12V_IN	12MIL 12MIL	3.3V 12V



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G 3.2A 4.3C 4.5A 3.2A 4.3C 4.5A 3.2A 4.3C 4.5A 9.2C 10.2C 12.3D 9.2C 10.3C 12.3D 9.2C 10.2C 12.3D \*\*\* Signal Cross-Reference for the entire design \*\*\* FBD<30> FBD<31> 15.1F< 15.3E 15.4C 5V\_FUSED MIOB\_D<4> 12V IN 14.5A< FBD<32> 3.2A 5.3A 5.3C MIOB D<5> 9.2C 10.2C 12.3D AGPADSTBF0 AGPADSTBF1 AGPADSTBS0 AGPADSTBS1 2.3C 2.4H< 2.3C 2.4H< 2.3C 2.4H< 2.3C 2.4H< FBD<63..32> FBD<33> FBD<34> FBD<35> MIOB\_D<6> MIOB\_D<7> MIOB\_D<8> 3.2A ⇒ 5.1F < 5.3A ⇒ 5.3C 3.2A 5.3A 5.3C 9.2C 10.2C 12.3D 9.2C 12.3D 3.2A 5.3A 5.3C 9.2C 10.1C 9.2C 10.2C 3.2A 5.3A 5.3C MIOB\_D<9> FBD<36> FBD<37> FBD<38> FBD<39> FBD<40> FBD<41> 3.2A 5.3A 5.3C 3.2A 5.3A 5.3C 3.2A 5.3A 5.3C 3.2A 5.3A 5.3C MIOB\_D<10> MIOB\_D<11> MIOB\_VSYNC PCIAD<0> AGPCALPD VDDO 9.20 10.40 AGPCALPU\_GND AGPDBI\_HI AGPDBI\_LO 9.2C 10.4C 9.2C 10.3C 9.2D> 10.2A< 10.4C 12.4B> 12.4B> 2.1C 2.1D 3.2A 5.3A 5.3E 3.2A 5.3A 5.3E 3.2A 5.3A 5.3E 3.2A 5.3A 5.3E 3.2A 5.3E 5.4A 3.3A 5.4E 5.4A 3.3A 5.4A 5.4C AGPMBDET 2.4C 2.4D 2.5H< PCIAD<31..0> 2.1C 2.3H< AGPRBE 2.3C 2.4H< PCTAD<1> 2.1C.2.1D FB0<41>
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PCIAD<24> ATXD1 8.1F< 8.2G 8.3D FBD0M<3..0> 4.1F< 3.3A> 4.4C< 5.4B< PCIAD<25> 2.2C 2.2D FBDQM<7..0>
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PCICBE1
PCICBE2 CVBS\_PB\_MUX CVBS\_Y\_MUX C\_MUX DACA\_BLUE 7.5E> 15.4A< 7.4E> 15.3A< 7.3E> 15.3A< 6.2A< 6.5C FBDQM<7..4>
FBDQM<5>
FBDQM<6>
FBDQM<7> 2.2C 2.2D 2.2C 2.3H< 2.2C 2.3H< 2.2C 2.3H< FBDQS<0> FBDQS<3..0> FBDQS<7..0> FBDQS<1> PCICBE3
PCICLK
PCIDEVSE DACA BLUE C 6.2A< 6.4G 3.2G 3.4A 4.3E 4.4E 2.2C 2.3H< 2.2C 2.3H< DACA\_BLUE\_C DACA\_B\_F DACA\_GREEN DACA\_GREEN\_C 6.2A< 6.5F 3.4A 4.4D 5.4D 3.2G 3.4A 4.3C 4.4E DACA\_G\_F 6.2A< 6.4F FBDQS<2> FBDQS<3> 3.2G 3.4A 4.4E⇔ 4.4E 3.2G 3.4A 4.4C⇔ 4.5E PCIGNT PCIINTA 2.2C 2.3H< 2.3C 2.4H< DACA HSYNC 6.2A< 6.4C DACA\_HSYNC\_C DACA\_RED DACA\_RED\_C 6.2G> 6.2A< 6.5C 6.2A< 6.3G FBDQS<4> FBDQS<7..4> FBDQS<5> 2.4H< 2.2C 2.4H< 2.3C 2.4H< 3.2G 3.4A 5.3C⇔ 5.4E PCIINTB 5.1F< 3.2G 3.4A 5.3E 5.4E PCIIRDY PCIPAR DACA\_R\_F 6.2A< 6.3F FBDQS<6> FBDQS<7> 3.3G 3.4A 5.4C⇔ 5.4E 3.3G 3.4A 5.4E⇔ 5.5E PCIREQ PCIRST\* 2.2C 2.3H< 2.2C 2.3H< DACA VDD 6.2A< 6.4B 6.2A< 6.4C 6.3G> 7.5A< 7.5D 7.3G> 8.3G< FBVREF FB\_CMD<0> FB\_CMD<26..0> FB\_CMD<1> 3.16< 3.5A 3.3C 3.3D> 4.1A< 5.1A< 3.3C PCISTOP PCITRDY PLL\_VDD ROM\_CS\* DACA\_VSYNC\_C DACB\_BLUE DACB\_BLUE\_C 11.1F< 11.4B 9.4D< 11.3E> 11.3E> FB\_CMD<1>
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FB\_CMD<3>
FB\_CMD<4>
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FB\_CMD<11> DACB GREEN 7.4D 7.5A< 3.30 SEL\_2ND\_DEV SEL\_HDTV\_SDTV XTALIN XTALOUT 7.4A< 11.2D> 7.3A< 11.2D> 11.1F< 11.5B 11.1F< 11.5C DACB\_GREEN\_C DACB\_HSYNC\_C DACB\_RED 7.36> 8.36< 7.26> 7.26> 8.36< 7.30 7.5A< 7.36> 8.36< DACB RED C 3.30 Y CVBSIN 12.2A< 15.5F> DACK RSET 7.3B 7.5A< 7.38 7.5A< 7.38 7.5A< 7.38 7.5A< 7.2G> 7.2G> 8.3G< DACB\_VSYNC\_C 7.265 7.265 8.364 8.405 11.204 3.405 4.1F4 4.284 4.204 4.464 3.405 4.1F4 4.284 4.204 4.564 3.405 5.1F4 5.284 5.204 5.464 3.405 5.1F4 5.284 5.204 5.464 DVI\_HPD 3.30 FB\_CMD<12>
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A	В	С	D	F F	G	Н
<u>-</u>	<u>-                                      </u>	-	<del>-</del>	<u>L</u>		<u>"</u>
*** Part Cross-Reference for the entire design ***	C109 C_POL 4	C607 C 3	C718 C 12	Q4 Q_FET_N_ENH 13		
BKT1 BRACKET 10	C110 C 3 C111 C 5	C608 C 3 C609 C 2	C719 C 6 C720 C 15	Q5 Q_FET_N_ENH 2 Q6 Q_FET_N_ENH 13		
1 C 15 2 C 7	C112 C 5 C113 C 5	C610 C 2 C611 C 2	C721 C 15 C722 C 15	Q501 Q_PNP 2 Q502 Q_FET_N_ENH 2		
3 C 7 4 C 7	C501 C 4 C502 C 5	C612 C 11 C613 C 2	C723 C 8 C724 C 6	Q503 Q_PNP 13 Q504 Q_NPN 13		
5 C 7 5 C 7	C503 C 5 C504 C 4	C614 C 2 C615 C 2	C725 C 6 C726 C 6	Q505 Q_FET_N_ENH 7 Q506 Q_NPN 13		
7 C 15 8 C 15	C505 C 5 C506 C 4	C616 C 2 C617 C 2	C727 C 15 C728 C 15	Q507 Q_NPN 13 Q508 Q_NPN 13		
19 C 15	C507 C 3 C508 C 3	C618 C 2 C619 C 2	C729 C 15 C730 C 7	Q500 Q_PNP 11 Q510 Q_NPN 11		
111 C 6	C509 C 5 C510 C 4	C620 C 2 C621 C 2	C731 C 7 C732 C 7	Q511 Q_FET_MENH 8 Q512 Q_NPM 14		
113 C 6 114 C 6	C511 C 5 C512 C 5	C622 C 2 C623 C 2	C733 C 6 C734 C 6	Q512 Q_NPN 14 Q514 Q_FET_N_ENH 14		
C15 C 12	C512 C 4 C514 C 5	C624 C 2	C735 C 6	U514 U_FEI_M_ENN 14 R1 R 6 R2 R 6		
16 C 12 17 C 6	C515 C 4	C626 C 2	C736 C 6 C737 C 6	R3 R 7		
C18 C 12 C19 C 12	C516 C 13 C517 C 5	C627 C 2 C628 C 2	C738 C 6 C739 C 15	R4 R 7 R5 R 7		
C2O C 12 C21 C 12	C518 C 4 C519 C 5	C629 C 2 C630 C 7	C740 C 15 C741 C 15	R6 R 7 R7 R 15		
C22 C 12 C23 C 6	C520 C 4 C521 C 4	C631 C 9 C632 C 8	C742 C 7 C743 C 7	R8 R 15 R9 R 15		
224 C 9 225 C 14	C522 C 13 C523 C 5	C633 C 9 C634 C 2	C744 C 7 C745 C 8	R10 R 15 R11 R 6		
C26 C 14 C27 C 11	C524 C 4 C525 C 5	C635 C 7 C636 C 7	C746 C 15 C747 C 8	R12 R 6 R13 R 7		
C28 C_POL 14 C29 C_POL 14	C526 C 4 C527 C 5	C637 C 7 C638 C 7	C748 C 7 C749 C 7	R14 R 7 R15 R 12		
C30 C 11 C31 C 2	C528 C 4 C529 C 13	C639 C 8 C640 C 2	C750 C 7 C751 C 14	R16 R 12 R17 R 12		
33 C 11	C530 C 5 C531 C 5	C641 C 11 C642 C 8	CN501 CON_AGP 2 D1 D_3PIN_AC 7	R18 R 6 R19 R 6		
334 C 2 335 C 11	C532 C 4 C533 C 4	C643 C 6 C644 C 6	D2 D_3PIN_AC 7 D3 D_3PIN_AC 7	R20 R 12 R21 R 12		
336 C 11 337 C_POL 13	C534 C 5 C535 C 5	C645 C 8 C646 C 8	D4 D_3PIN_AC 7 D5 D_3PIN_AC 6	R22 R 9 R23 R 11		
338 C_POL 13 339 C 2	C536 C 4 C537 C 4	C647 C 6 C648 C 8	D6 D_SPIN_AC 6 D7 D_SPIN_AC 6	R24 R 14 R25 R 14		
7.40 C 14 7.41 C 2	C538 C 5 C539 C 4	C649 C 6 C650 C 11	D8 D_3PIN_AC 6 D9 D 11	R26 R 9 R27 R 9		
.41 C 14	C540 C 5 C541 C 4	C651 C 9 C652 C 8	D10 D_SCHOTTKY 13 D11 D 13	R28 R 9 R29 R 9		
7.43 C	C542 C 5 C543 C 4	C653 C 6 C654 C 8	D501 D 13 D502 D_3PIN_CC 11	R30 R 11 R31 R 11		
C45 C_POL 13 C46 C_POL 13 C47 C 8	C543 C 4 C544 C 2 C545 C 13	C655 C 9 C656 C 2	D502 D_SPIN_CC 11  D503 D_SPIN_AC 15  D504 D_SPIN_AC 15	R31 K 11 R32 R 11 R33 R 13		
C47 C B C C C C C C C C C C C C C C C C C	C545 C 13 C547 C 2	C657 C 11 C658 C 2	D504 D_3F1M_AC 15 D505 D_3F1M_AC 8	R33 R 13 R35 R 13		
C50 C_POL 13	C547 C 2 C548 C 2 C549 C 2	C659 C 2	D506 D_SPIN_AC 8 F1 F_POLYSW 15 F501 F_POLYSW 14	R35 R 13 R36 R 14 R37 R 14		
C51 C_POL 13 C52 C 2	C550 C 2	C661 C 2	J1 CON_DSUB15HD 7	R3B R 13		
C53 C 2 C54 C 2	C551 C 13 C552 C 13	C662 C 8 C663 C 13	J2 CON_MINIDIN_10 15 J3 CON_DVI_1 8	R39 R 13 R40 R 9		
C55 C_POL 13 C56 C_POL 13	C553 C 13 C554 C 2	C664 C 2 C665 C 6	J4 CON_DSUB15HD 6  J5 HDR_2X6 15	R41 R 11 R42 R 11		
C57 C 3 C58 C 2	C555 C 2 C556 C 3	C666 C 2 C667 C 11	J6 HDR_1X2 11 J7 HDR_2X4 11	R43 R 13 R44 R 2		
C59 C 2	C557 C 2 C558 C 2	C668 C 8 C669 C 2	J501 HDR_1X2 11 L1 L 7	R45 R 11 R46 R 13		
C61 C_POL 13 C62 C_POL 13	C559 C 2 C560 C 2	C670 C 2 C671 C 2	L2 L 7 L3 L 6	R47 R 2 R48 R 2		
C63 C 13 C64 C 13	C561 C 2 C562 C 3	C672 C 2 C673 C 11	L4 L 6 L5 L 13	R49 R 2 R50 R 13		
C65 C_POL 13 C66 C_POL 13	C563 C 3 C564 C 3	C674 C 8 C675 C 8	L6 L 13 L7 L 13	R51 R 11 R52 R 11		
67 C 13 68 C 2	C565 C 3 C566 C 3	C676 C 14 C677 C 2	L8 L 13 L501 L 15	R53 R 11 R54 R 5		
269 C 5	C567 C 3 C568 C 3	C678 C 14 C679 C 14	L502 L 15 L503 L 15	R55 R 4 R56 R 5		
C71 C 5	C569 C 3 C570 C 2	C680 C 14 C681 C 2	L504 L 6 L505 L 6	R57 R 4 R58 R 11		
773 C 5 774 C 4	C571 C 2 C572 C 3	C682 C 2 C683 C 2	L506 L 6 L507 L 7	R59 R 11 R60 R 11		
775 C 5	C573 C 13 C574 C 3	C684 C 14 C685 C 14	L508 L 7 L509 L 7	R61 R 4 R62 R 4		
7.77 C 4 7.78 C 4	C574 C 11 C576 C 11	C686 C 12 C687 C 12	LB1 L 7	R63 R 4 R64 R 5		
779 C 5 779 C 5	C576 C 3 C577 C 3 C578 C 3	C688 C 12 C689 C 12	LB3 L 15 LB4 L 15	R65 R 4 R66 R 4		
280 C 5 281 C 4 282 C 4	C578 C 2 C580 C 3	C690 C 12 C691 C 12	LB5 L 15	R501 R 5 R502 R 5		
UB2 C 4 C 11 CB4 C 5	C581 C 3 C582 C 3	C692 C 12 C693 C 12	LB6 L 15 LB7 L 6 LB8 L 6	R502 R 5 R503 R 5 R504 R 5		
85 C 4	C583 C 3	C694 C 12	LB9 L 12	R505 R 5		
86 C 5	C584 C 2 C585 C 3	C695 C 12 C696 C 12	LB10 L 12 LB501 L 3	R506 R 4 R507 R 5		
88 C 5 89 C 4	C586 C 2 C587 C 3	C697 C 12 C698 C 12	LB502 L 3 LB503 L 7	R508 R 4 R509 R 13		
90 C 5 91 C 4	C588 C 3	C699 C 12 C700 C 12	LB504 L 6 LB505 L 11	R510 R 5 R511 R 13		
992 C 5 993 C 4	C590 C 2 C591 C 3	C701 C 12 C702 C 12	LB506 L 2 LB507 L 11	R512 R 13 R513 R 13		
294 C 5 295 C 4	C592 C 2 C593 C 2	C703 C 12 C704 C 12	LB508 L 8 LB509 L 8	R514 R 13 R515 R 13		
296 C 5 297 C 4	C594 C 2 C595 C 3	C705 C 12 C706 C 7	LB510 L 14 LB511 L 12	R516 R 13 R517 R 13		
C98 C 5	C596 C 3 C597 C 2	C707 C 7 C708 C 12	LB512 L 7 LB513 L 8	R518 R 13 R519 R 2		
C100 C 5	C598 C 2 C599 C 2	C709 C 12 C710 C 12	MEC1 MEC_SCREW 10 MEC2 MEC_SCREW 10	R520 R 2 R521 R 2		
C102 C_POL 13 C103 C_POL 13	C600 C 3 C601 C 3	C711 C 12 C712 C 12	MEC3 MEC_SCREW 10 MEC4 MEC_SCREW 10	R522 R 2 R523 R 2		
C104 C 4 C105 C 3	C602 C 2 C603 C 2	C713 C 12 C714 C 12	MEC5 MEC_SCREW 10 MEC6 HEATSINK 10	R524 R 13 R525 R 13		
01006 C 4 0107 C_POL 5	C604 C 3 C605 C 2	C715 C 12 C716 C 12	Q1 Q_FET_N_ENH 11 Q2 Q_NPN 13	R526 R 13 R527 R 13		
1108 C 4	C606 C 2	C717 C 12	Q3 Q_FET_N_ENH 13	R528 R 13	NVIDIA	CORPORATION
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