# 41-P260, NV41 256bit, 4M/8Mx32bit DDR1 (350Mhz)

SKU	VARIANT	NVPN	ASSEMBLY
B 1 2 3 4 5 6 7 8 9	BASE \$KU0000 \$KU0001 \$KU0002 \$KU0500 \$KU0500 \$KU0800 \$KU0004 \$KU00501 \$KU0005 \$KU0007 \$KU0007 \$KU0EFINED>	600-10260-base-300 600-10260-0000-300 600-10260-0001-300 600-10260-0001-300 600-50260-0000-300 600-50260-0000-300 600-10260-0000-300 600-10260-0001-300 600-10260-0001-300 600-10260-0005-300 600-10260-0005-300	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL  NV41 128MB, 4Mx32 DDR1, VGA+DVI-I+HDTV-out; PCI-E Desktop  NV41 128MB, 4Mx32 DDR1, VGA+DVI-I+HDTV-out; PCI-E Desktop  NV41 128MB, 4Mx32 DDR1, VGA+DVI-I+HDTV-out; PCI-E Desktop  NV41 256MB, 8Mx32 DDR1, VGA+DVI-I+HDTV-out; PCI-E Desktop  NV41GL Quadro FX 1400 (NV41GLP260) 128MB, 256bit, DVI-DL+DVI-DL+Stereo, WS  NV41 Bringup SKU, 128MB, 4Mx32 DDR1  NV41 256MB 8Mx32 DDR1 VGA+DVI-I+S-Video-Out PCI-E Desktop - DELL SKU  NV41 PSFonal Cinema baseboard SKU (NTSC+PAL) 128MB VGA+DVI-I+VIVO/HD-Out + PCI-E  NV41 256MB 8Mx32 DDR1 VGA+DVI-I+HDTV-out PCI-E Desktop - HP Sku <undefined></undefined>
12 13 14 15	<pre><undefined> <undefined> <undefined></undefined></undefined></undefined></pre>	<undefined> <undefined> <undefined> <undefined> <undefined></undefined></undefined></undefined></undefined></undefined>	<undefined> <undefined> <undefined> <undefined></undefined></undefined></undefined></undefined>

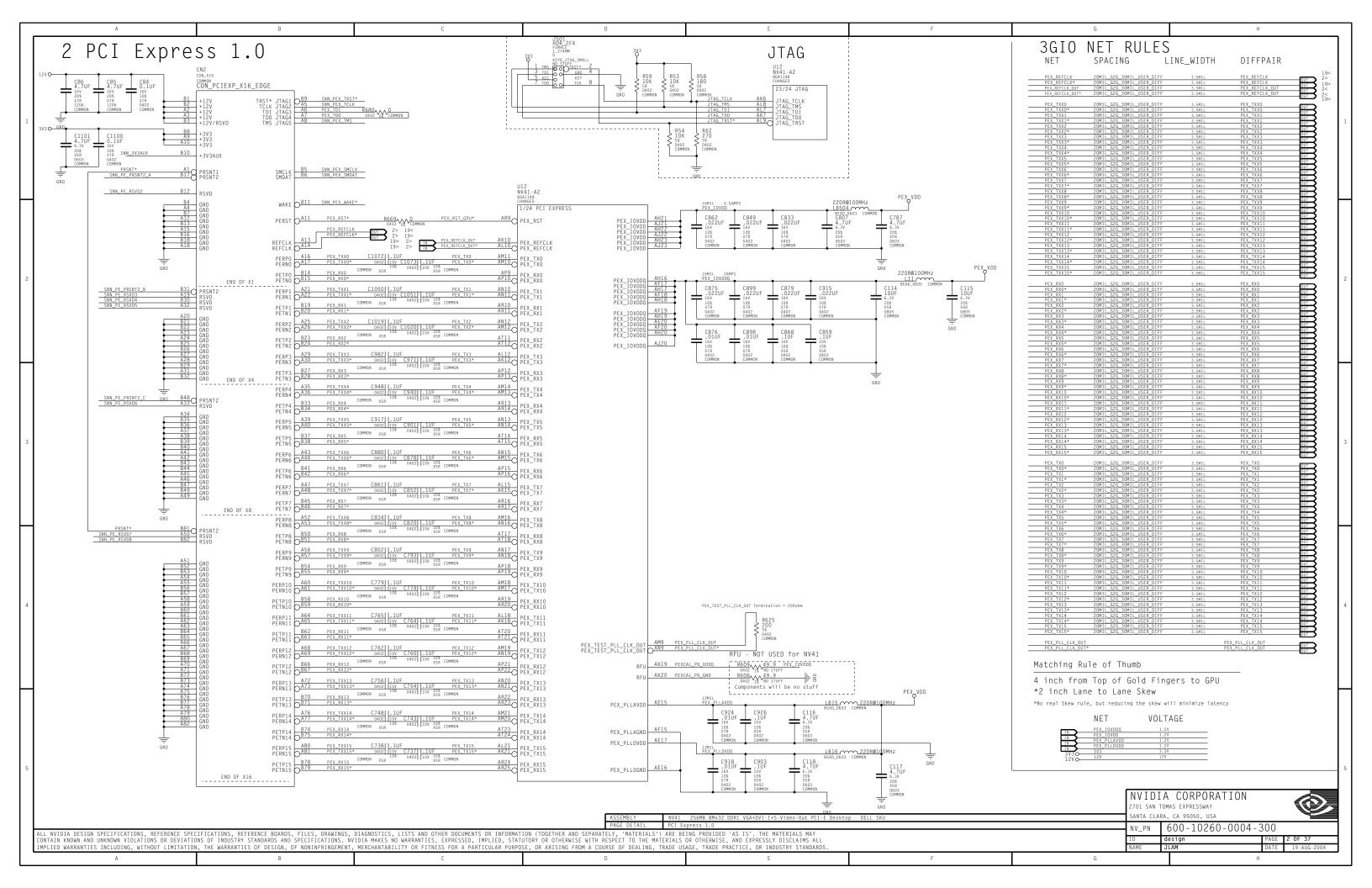
#### Page Overview

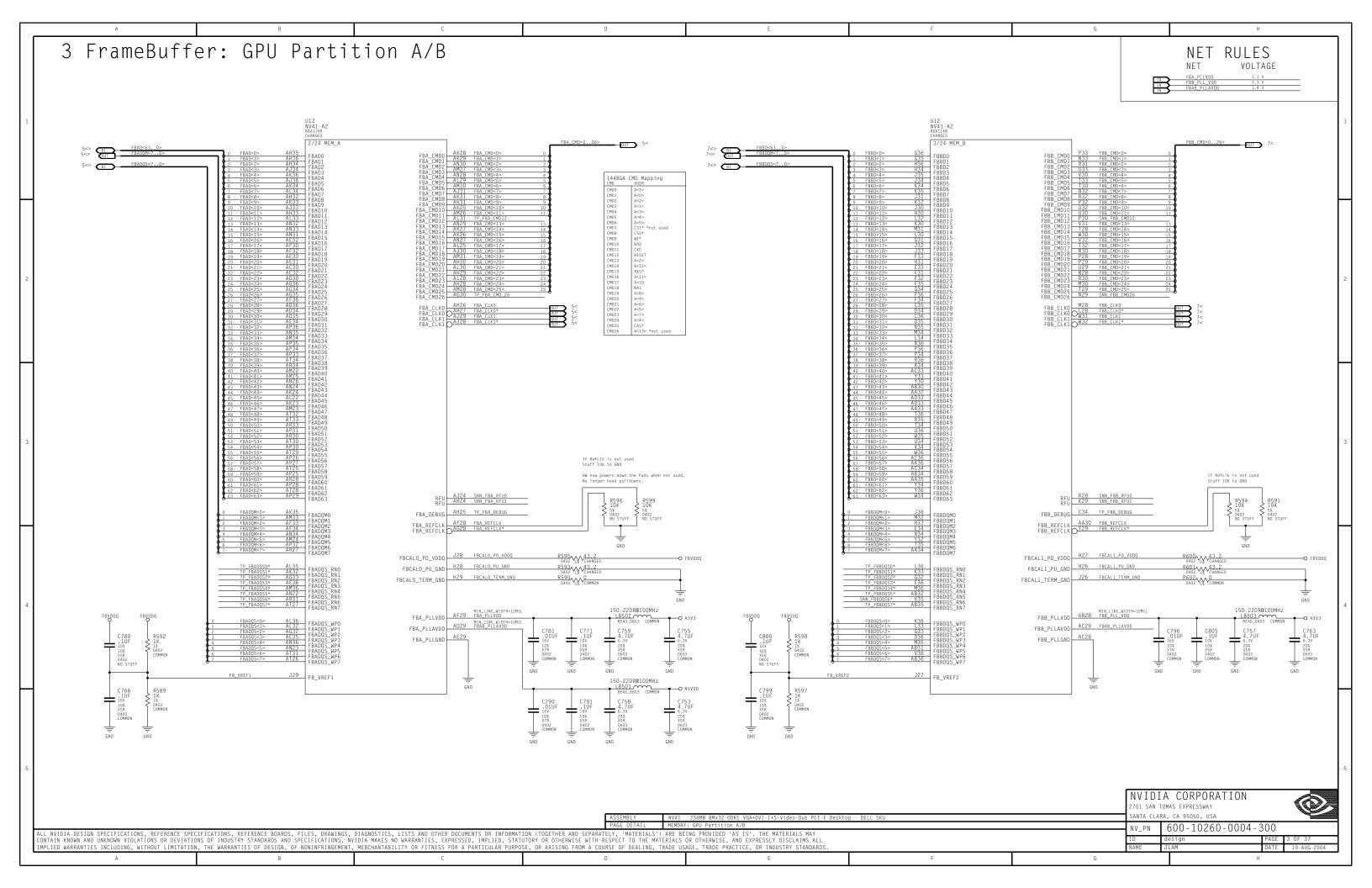
Page1: Overview Page2: PCI Express 1.0 Page3: MEMORY: GPU Partition A/B Page4: MEMORY: GPU Partition C/D Page5: FrameBuffer: Partition A 4Mx32 BGA144 DDR1 Page6: FrameBuffer: Partition A Decoupling Page7: FrameBuffer: Partition B 4Mx32 BGA144 DDR1 Page8: FrameBuffer: Partition B Decoupling Page9: FrameBuffer: Partition C 4Mx32 BGA144 DDR1 Page10: FrameBuffer: Partition C Decoupling Page11: FrameBuffer: Partition D 4Mx32 BGA144 DDR1 Page12: FrameBuffer: Partition D Decoupling Page13: DACA Interface Page14: DACC Interface Page15: IFP A/B and C/D Interface Page16: DACB Interface Page17: Video Capture (Philips 7115) Page18: MIO Interface and Feature Connnector Page19: PEX: Zero Delay Buffer Page20: MISC: GPIO, I2C, THERMAL, BIOS, XTAL Page21: Strapping Configuration Page22: Power/GND and Decoupling Page23: Power Supply I: Analog 3.3V Page24: Power Supply II: 5V Page25: Power Supply III: NVVDD/FBVDDQ Page26: Power Supply IV: NVVDD Page27: Power Supply V: FBVTT Page28: Power Supply VI: PEX Page29: Mechanical: Bracket/Thermal Solution

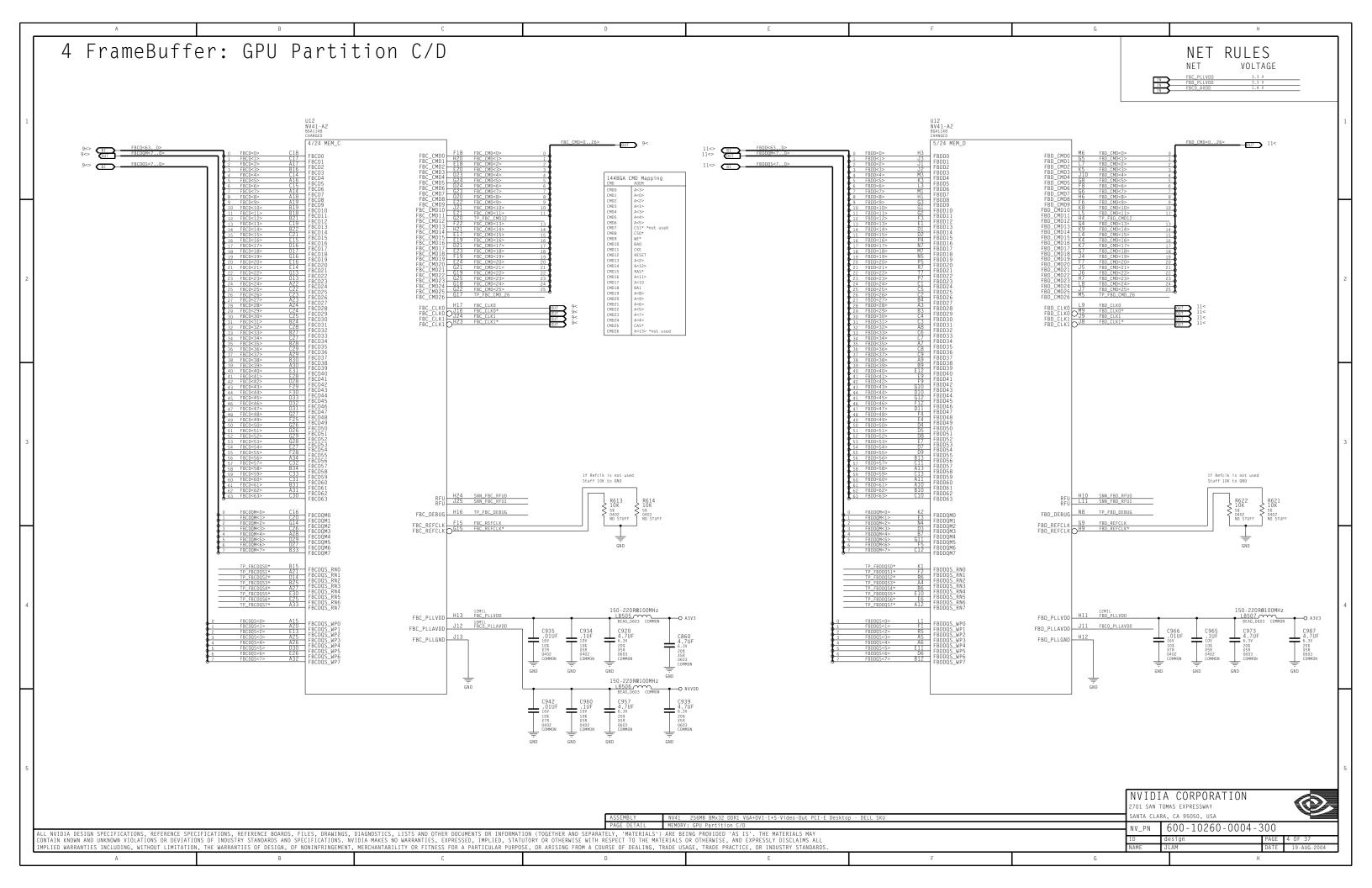
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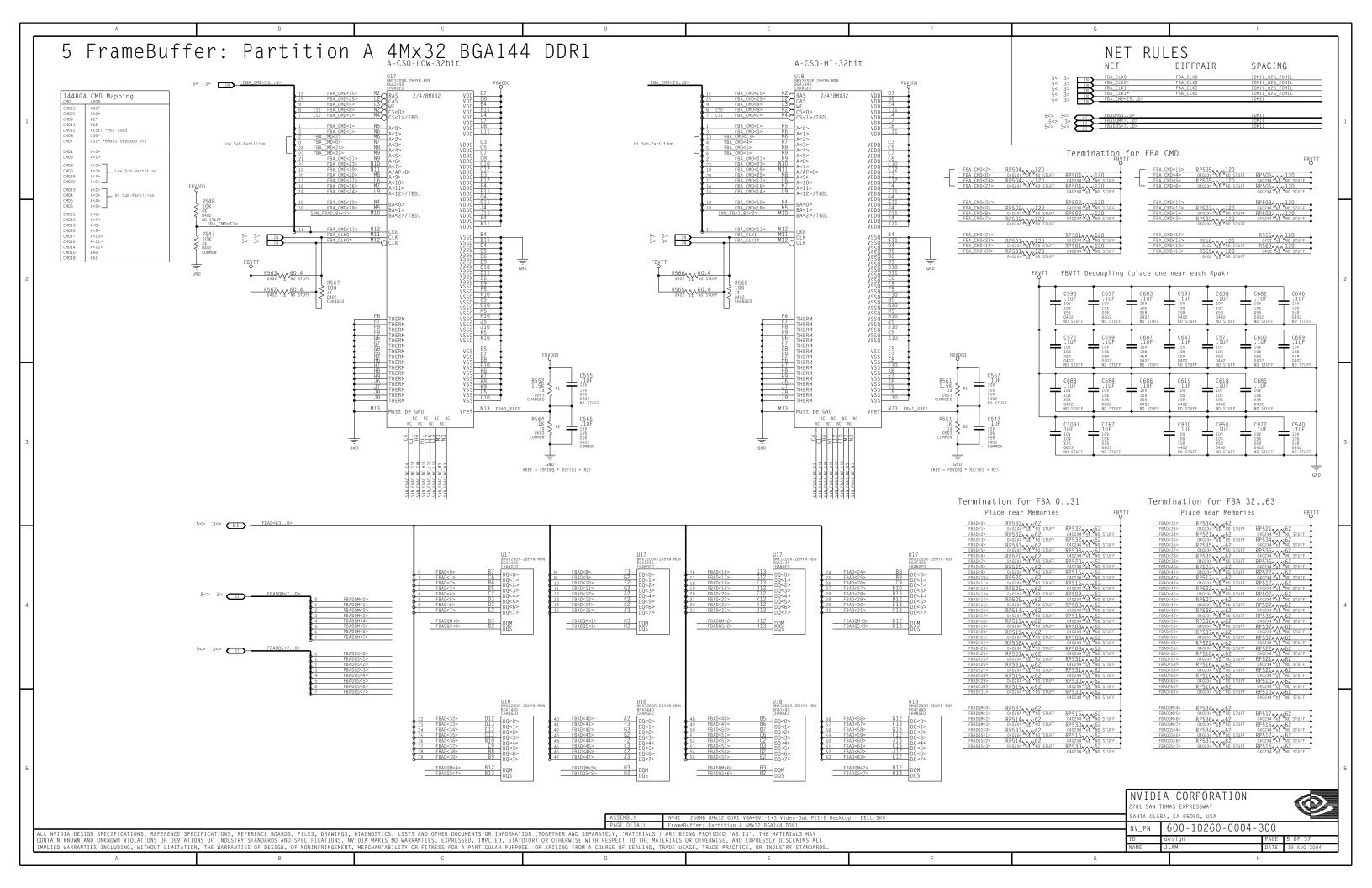
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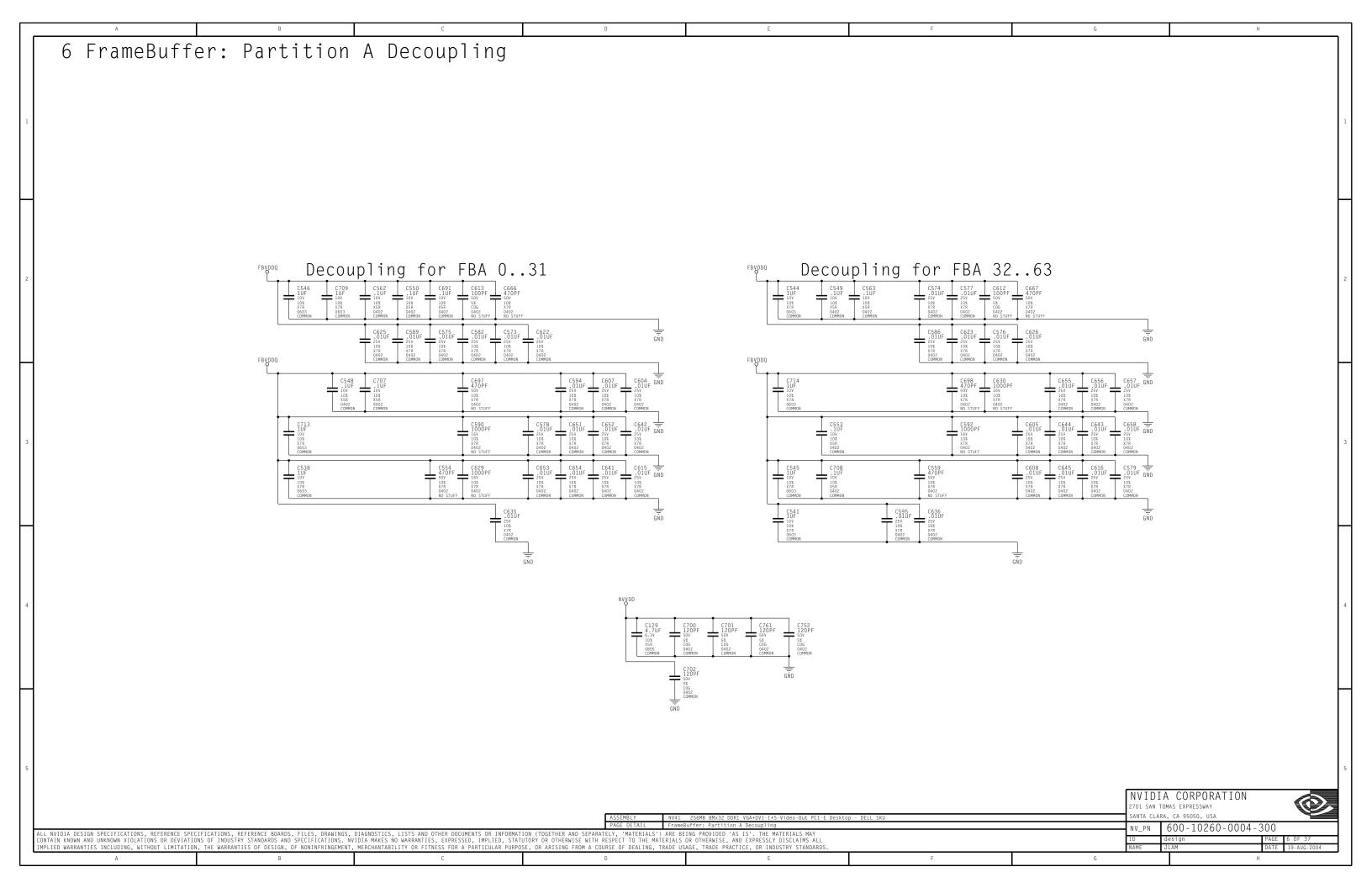
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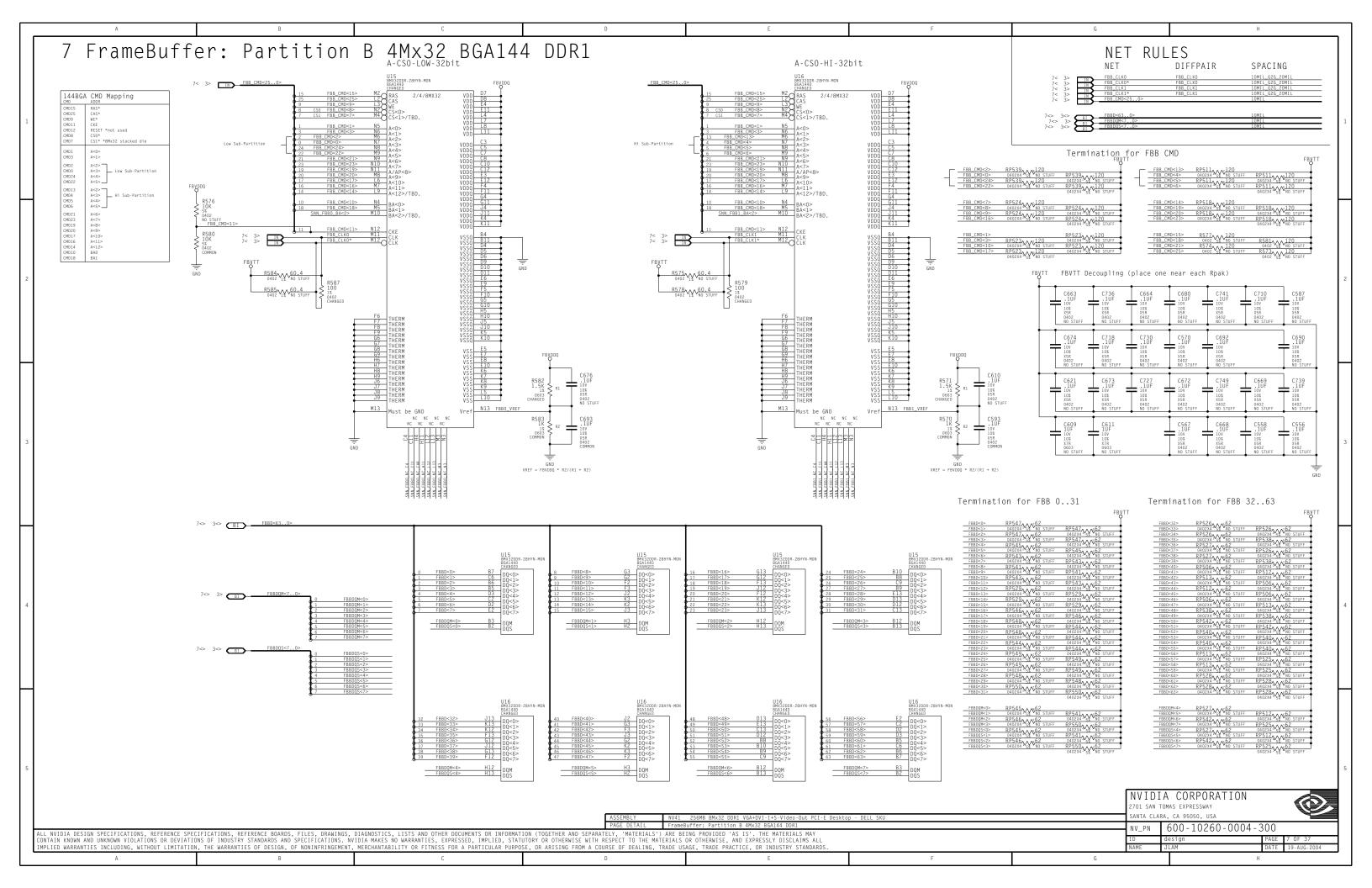


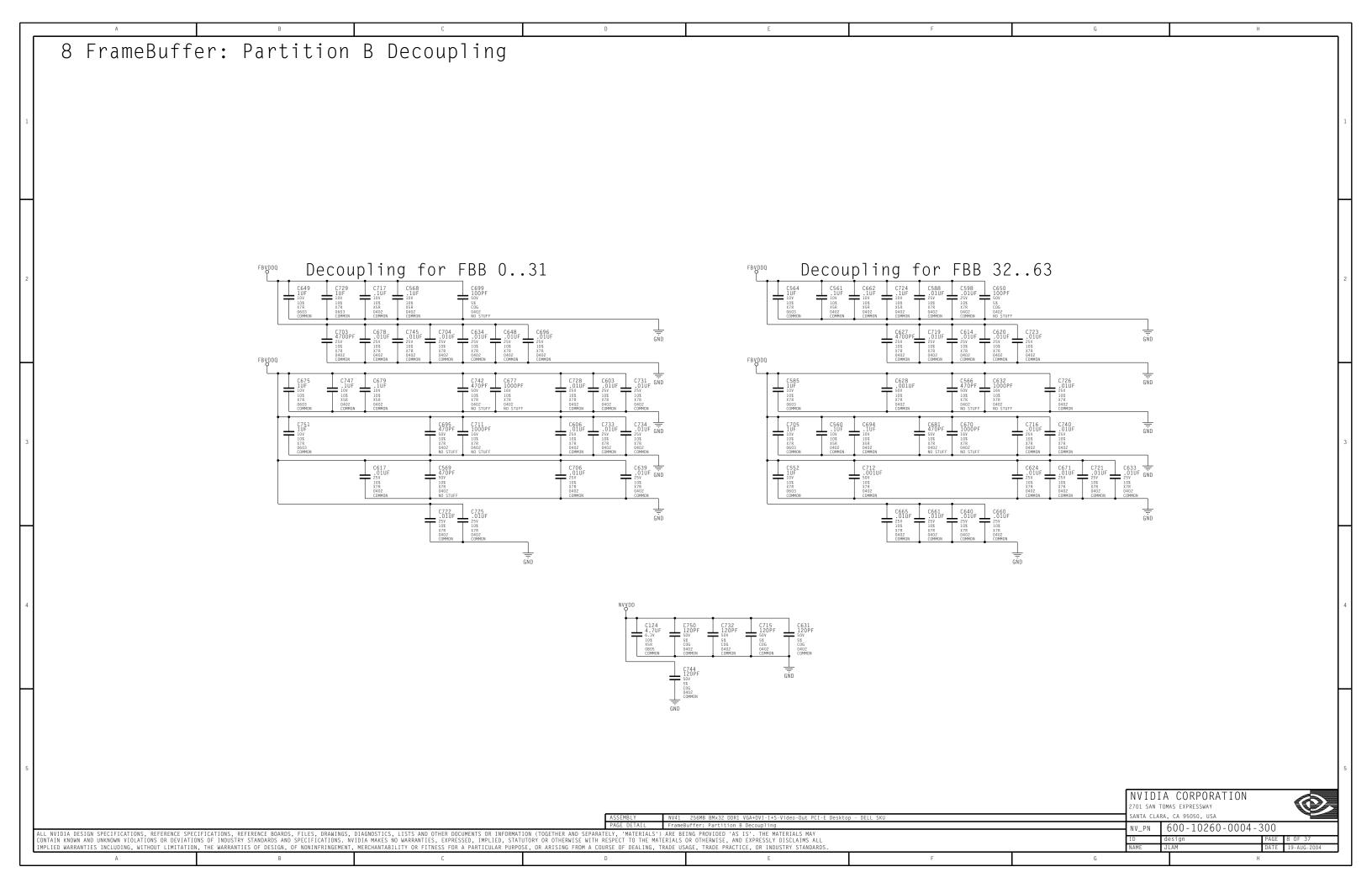


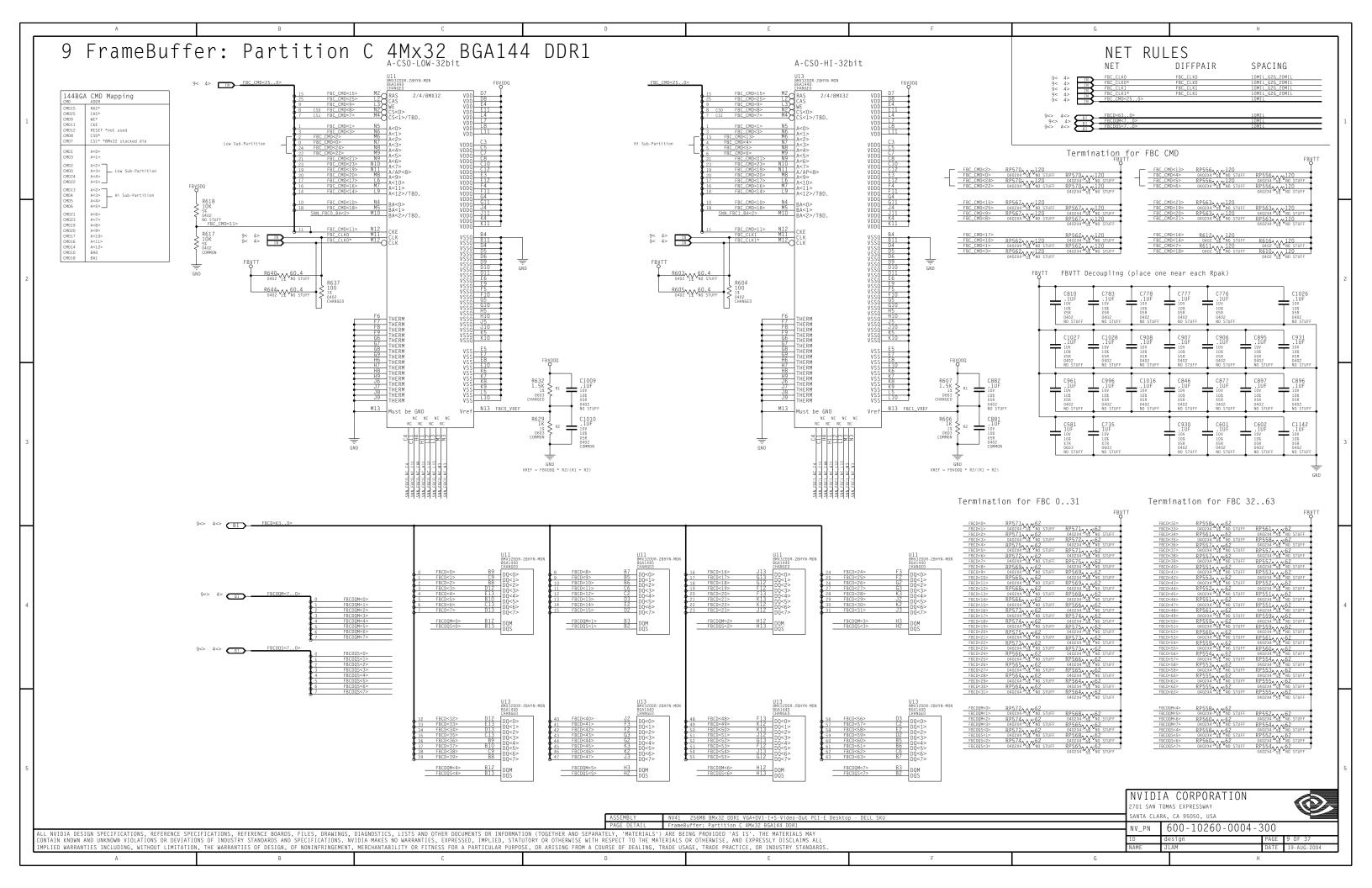


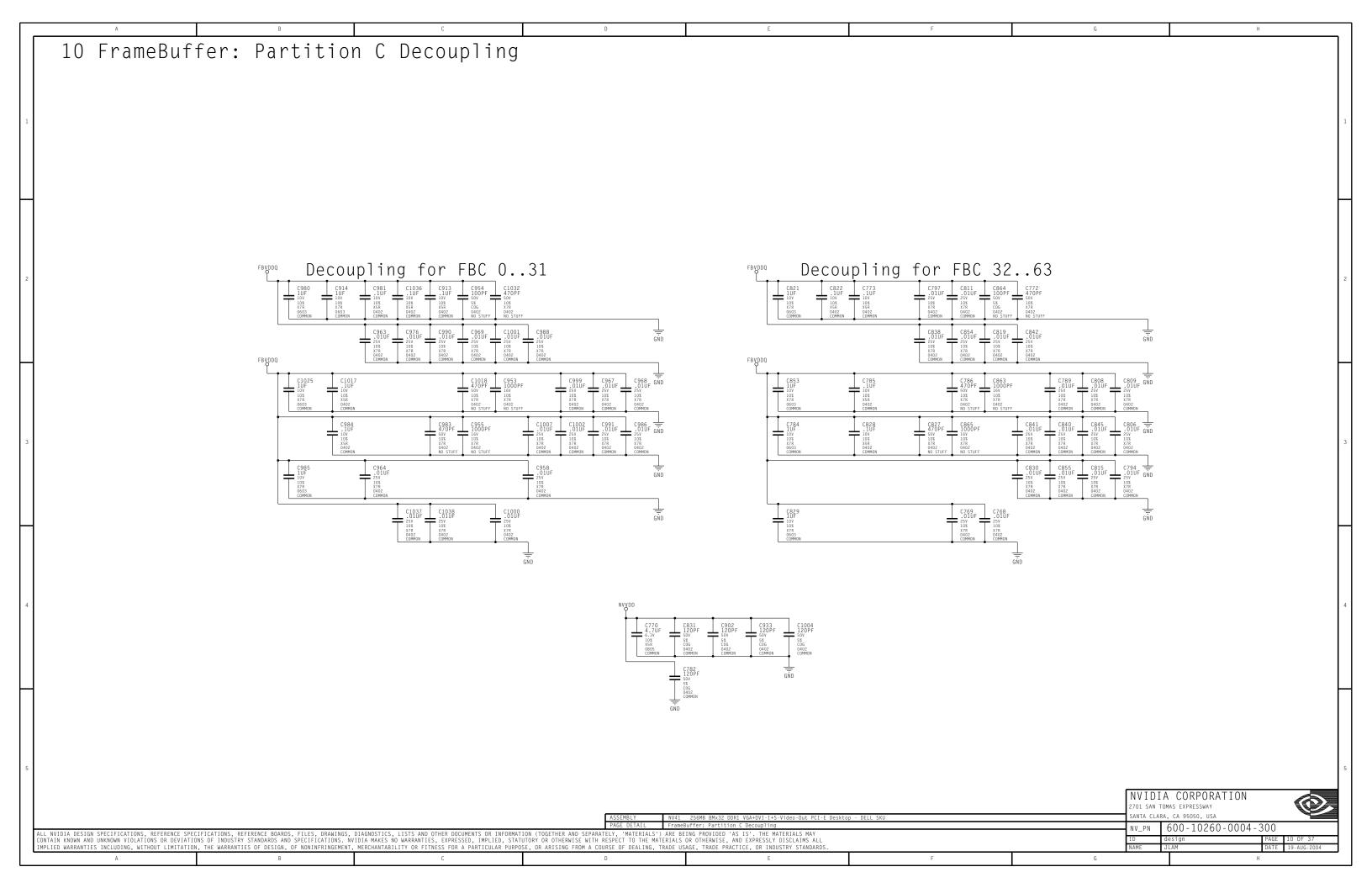


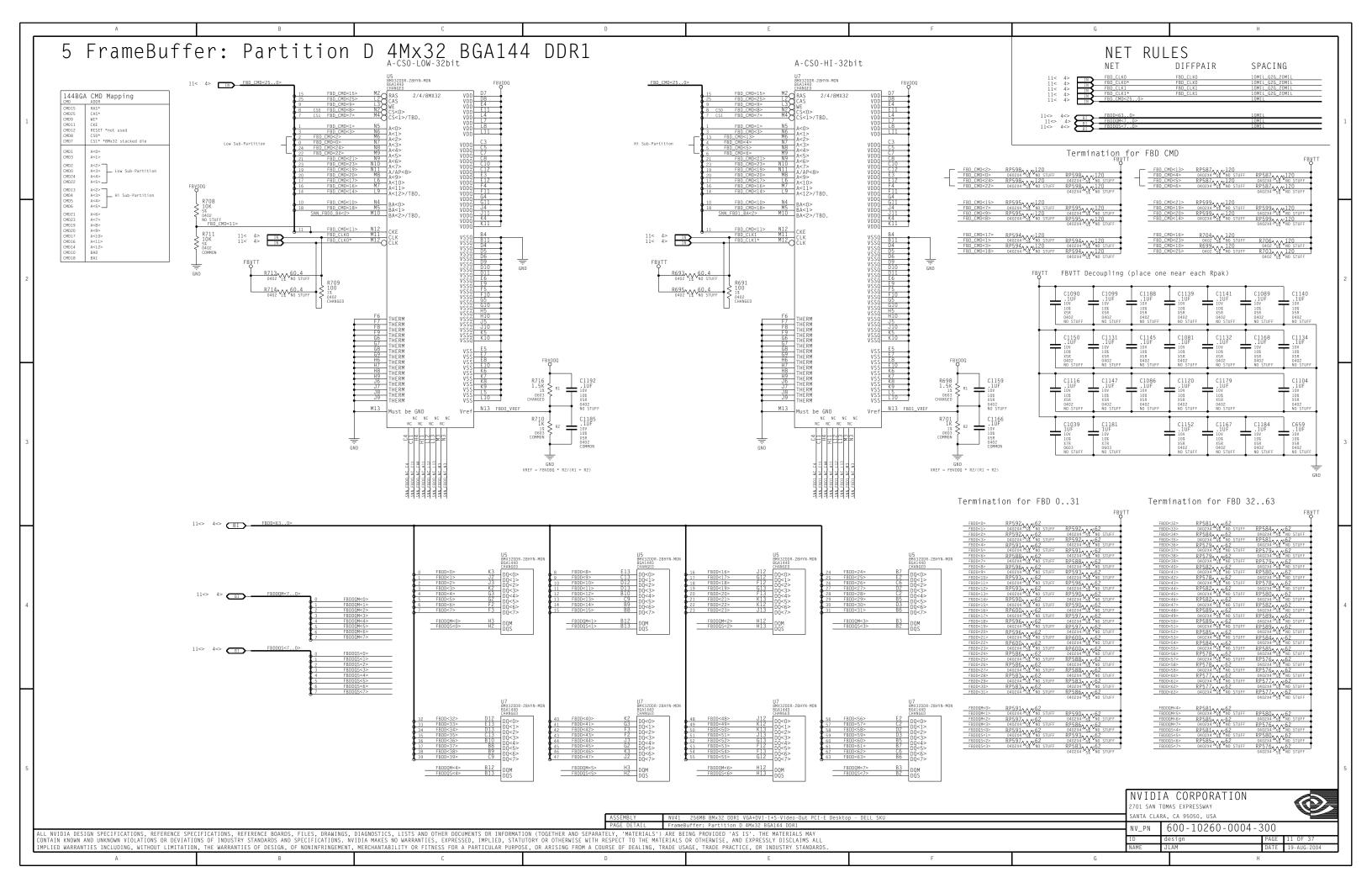


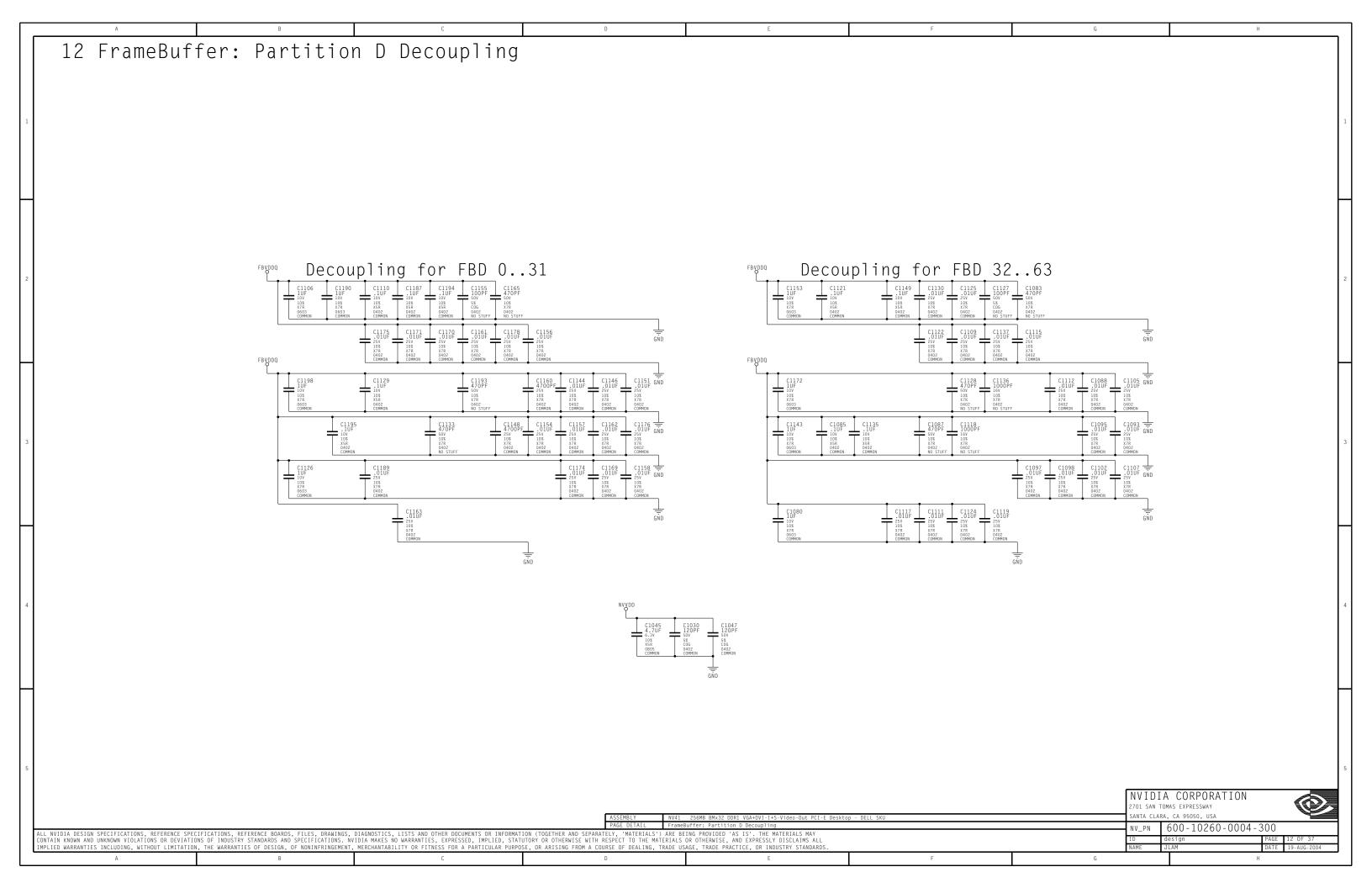


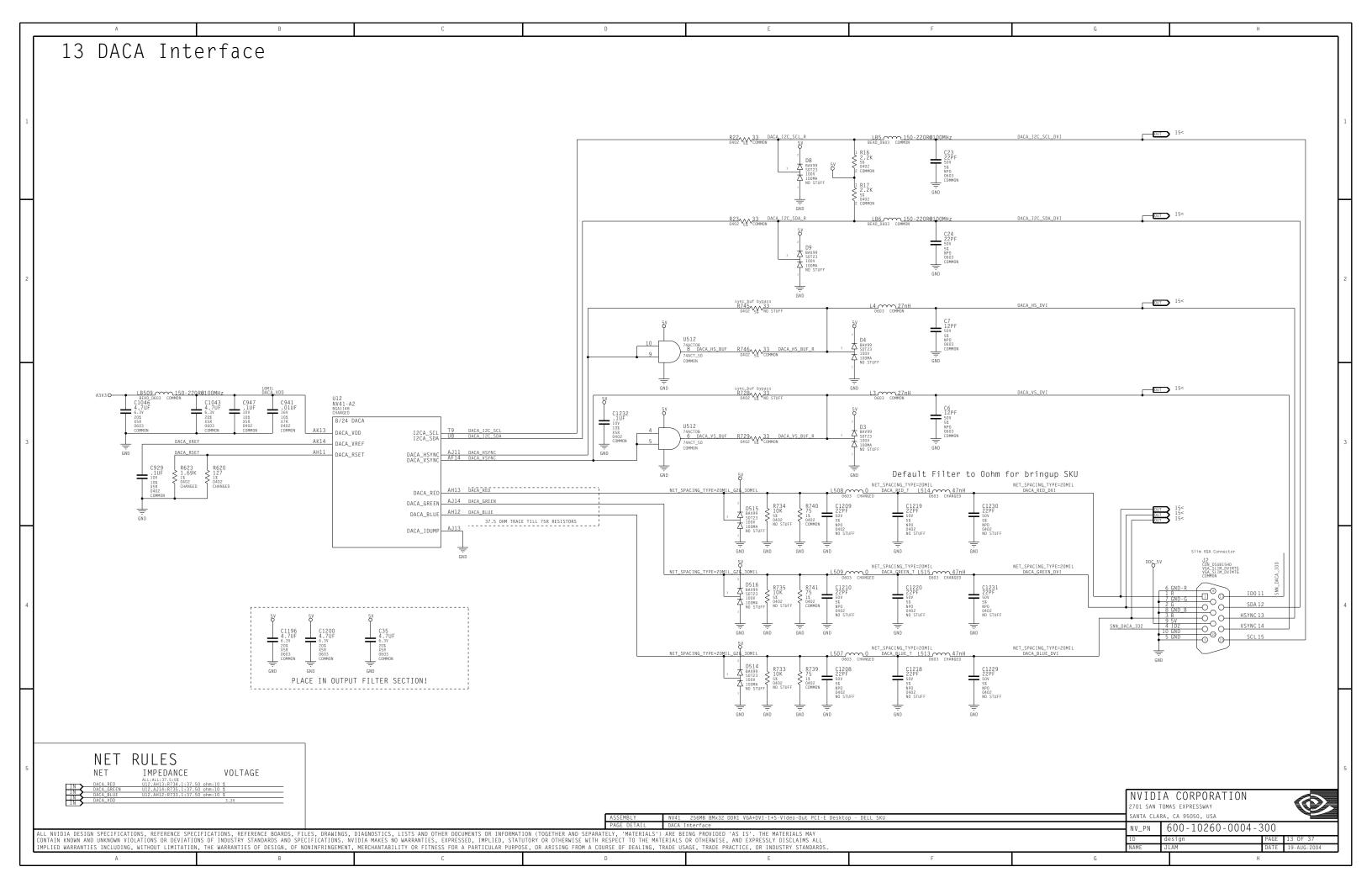


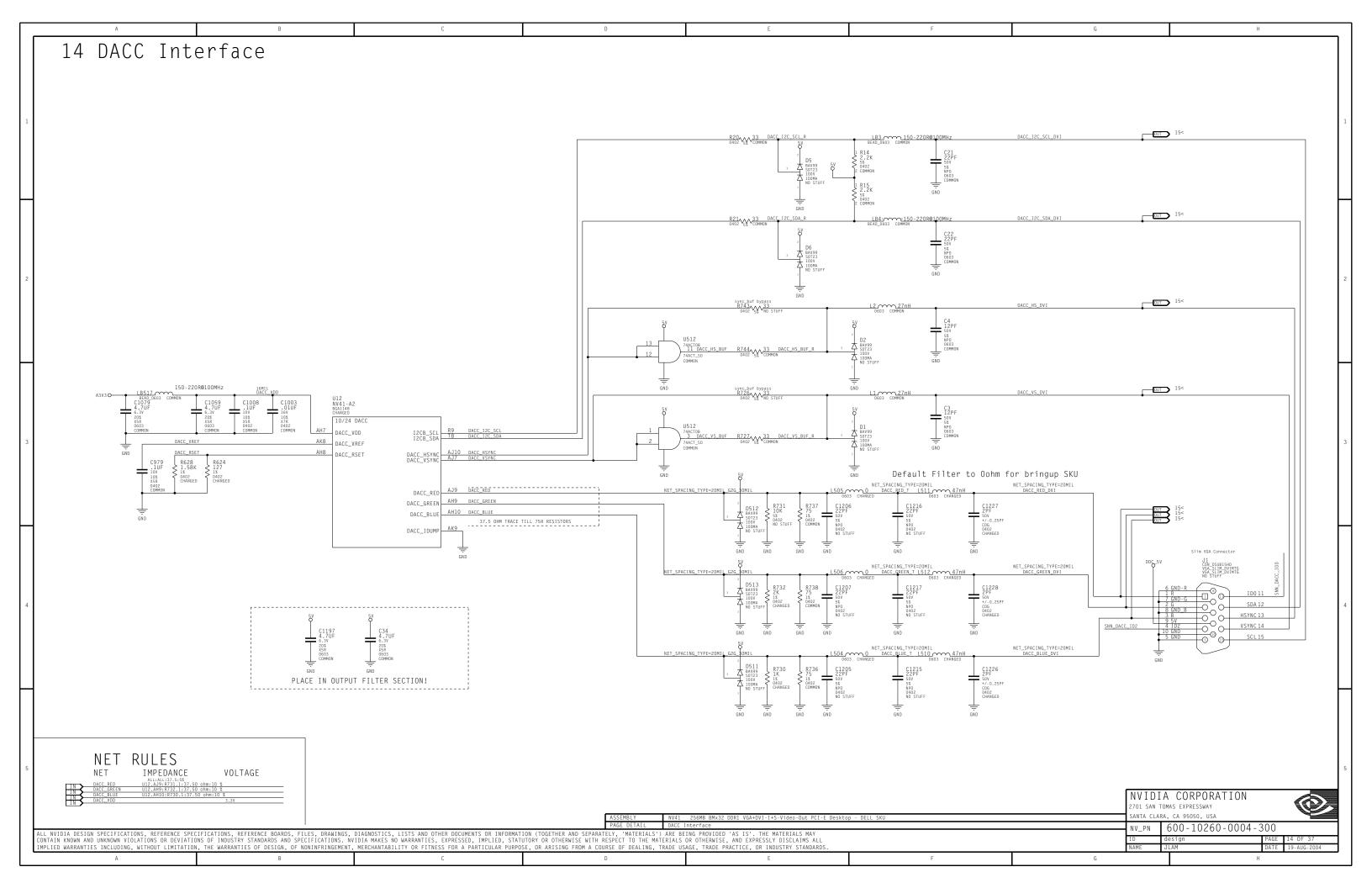


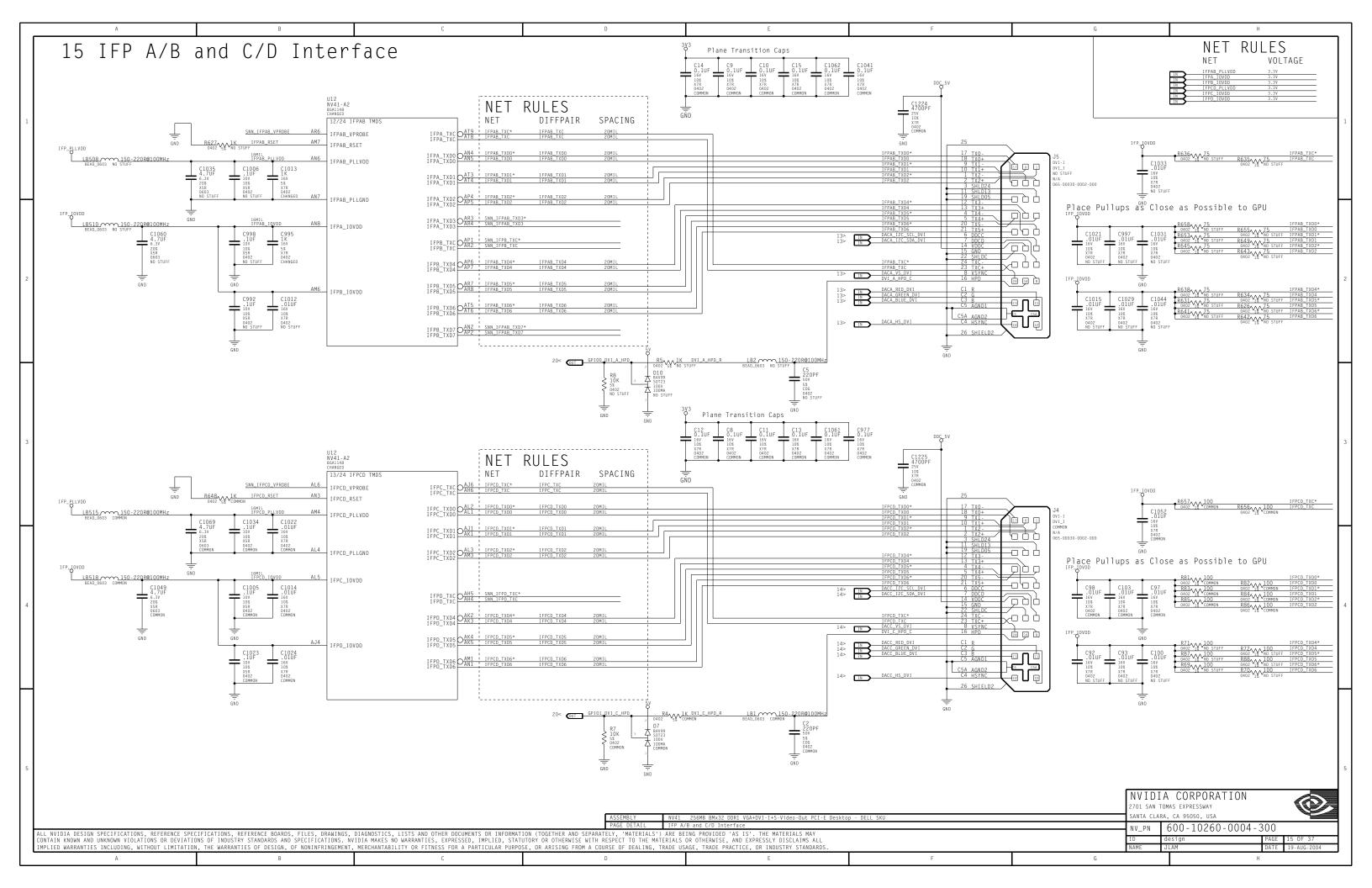


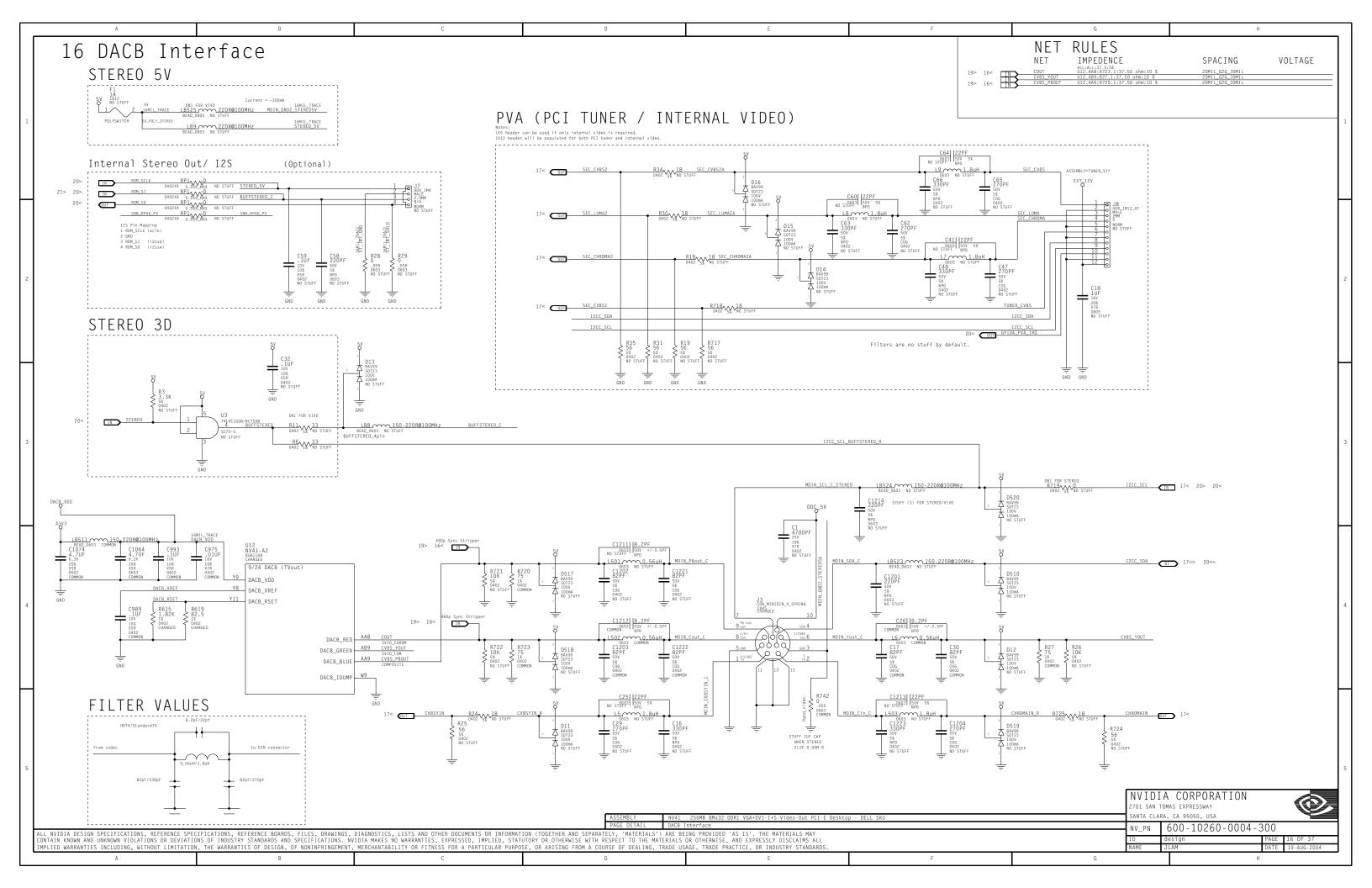


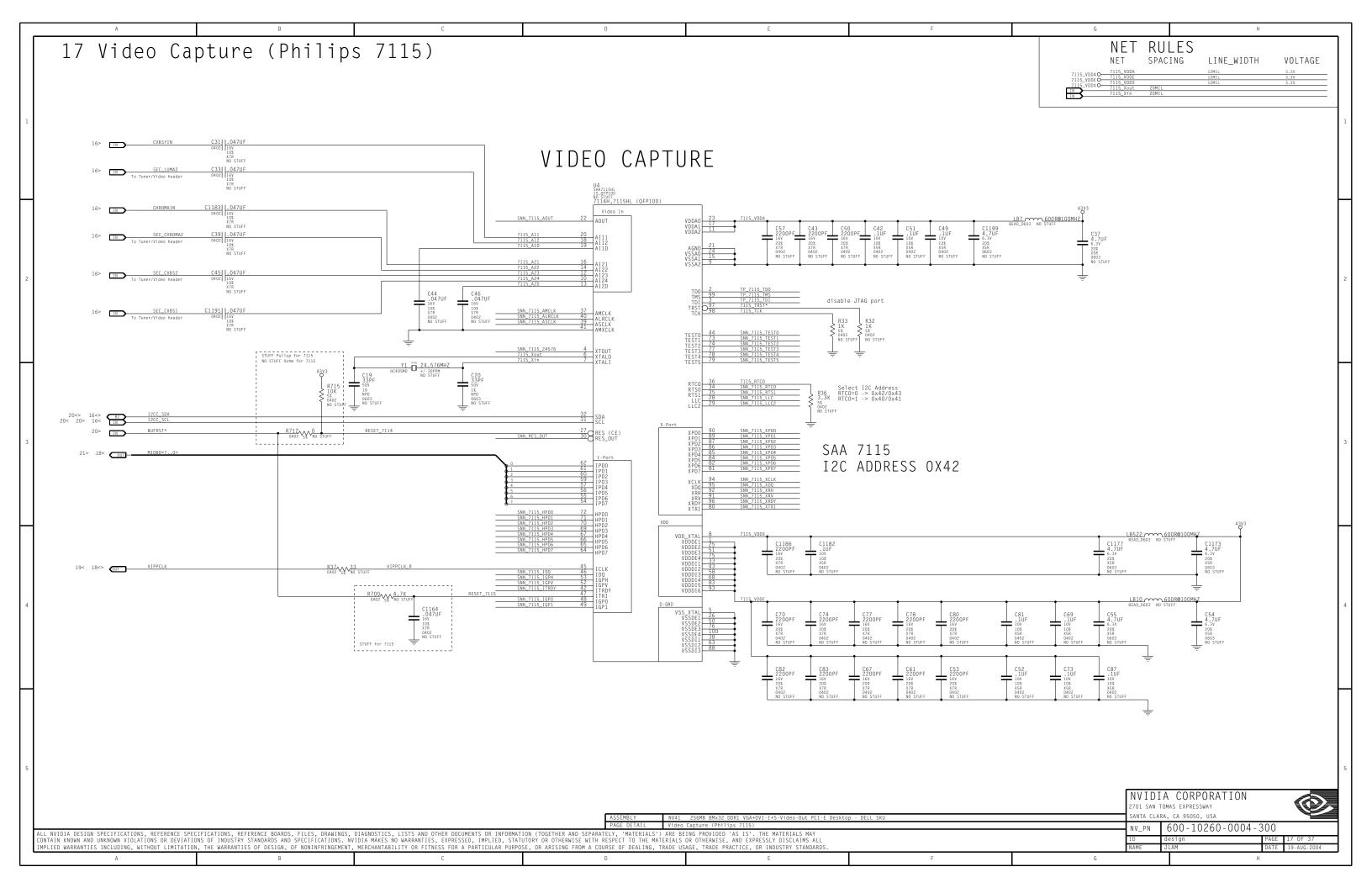


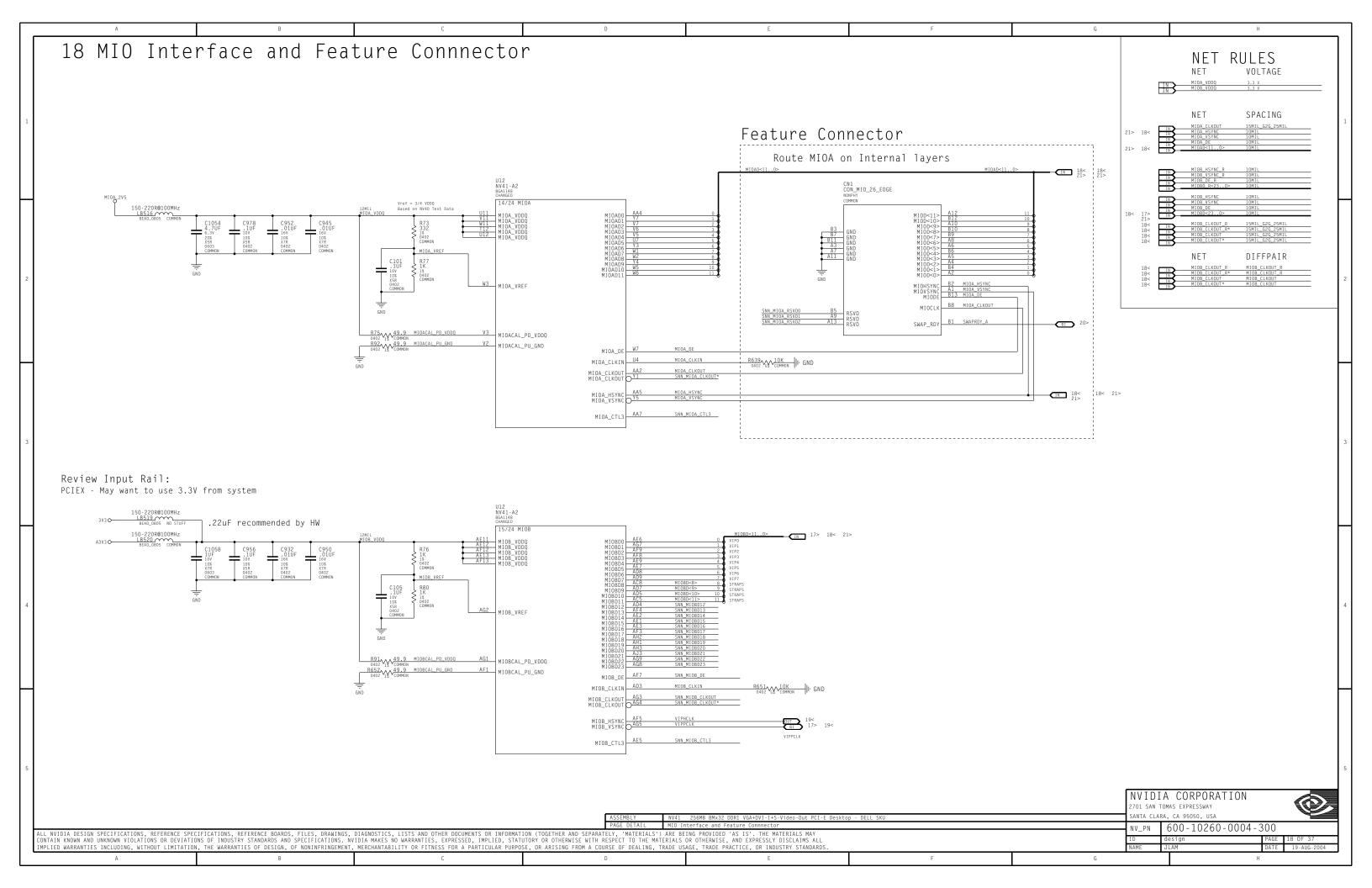


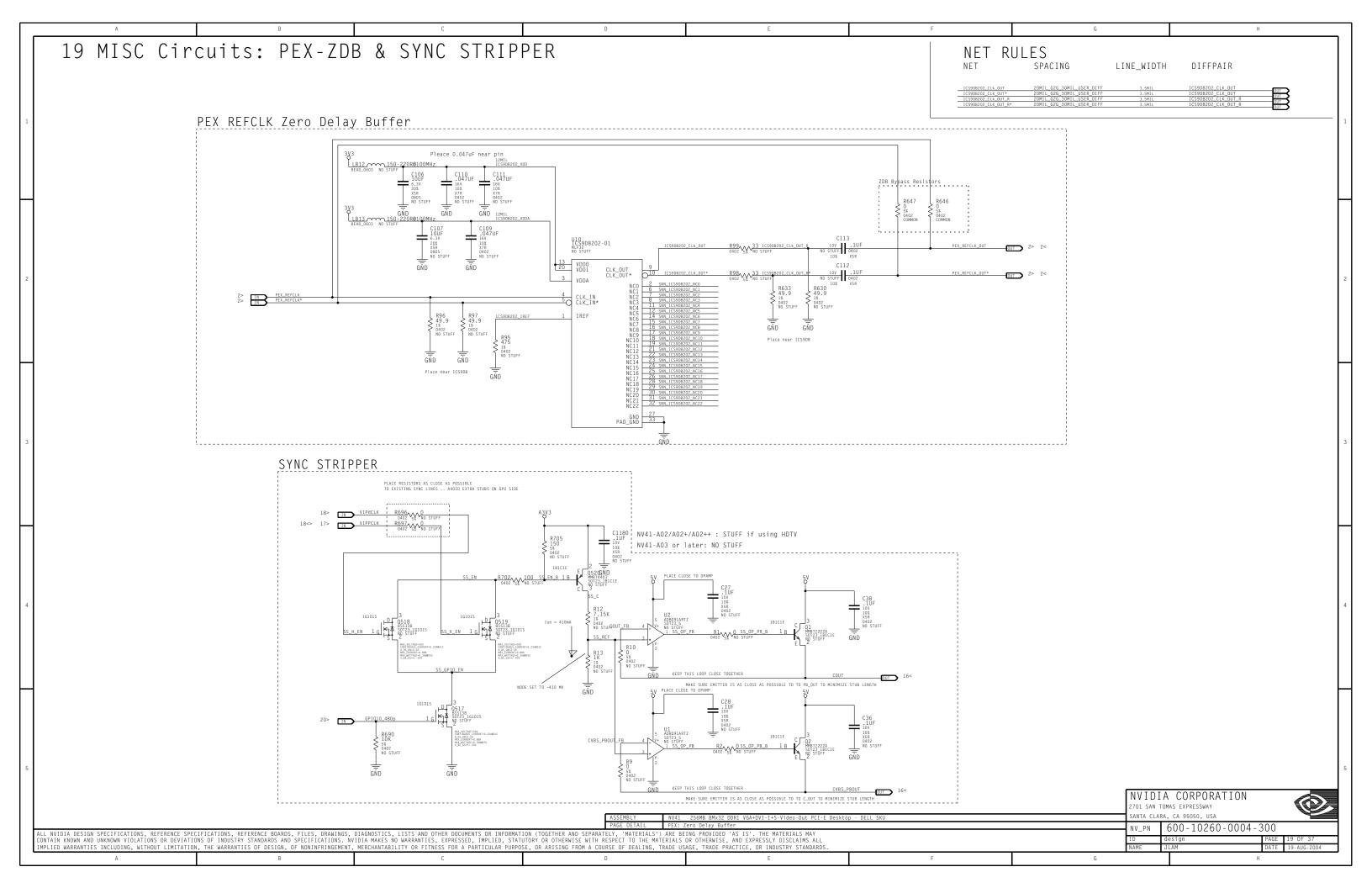


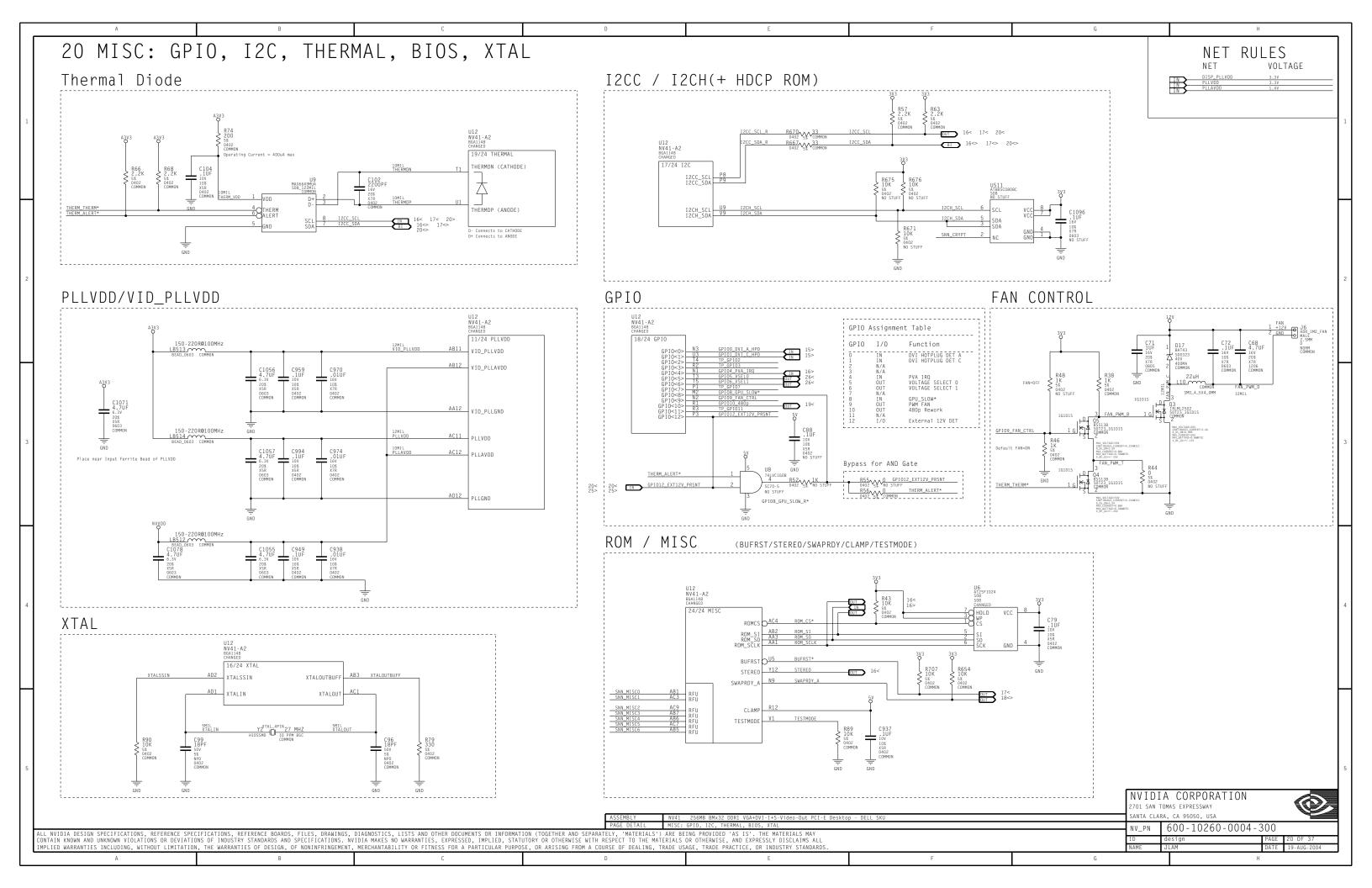


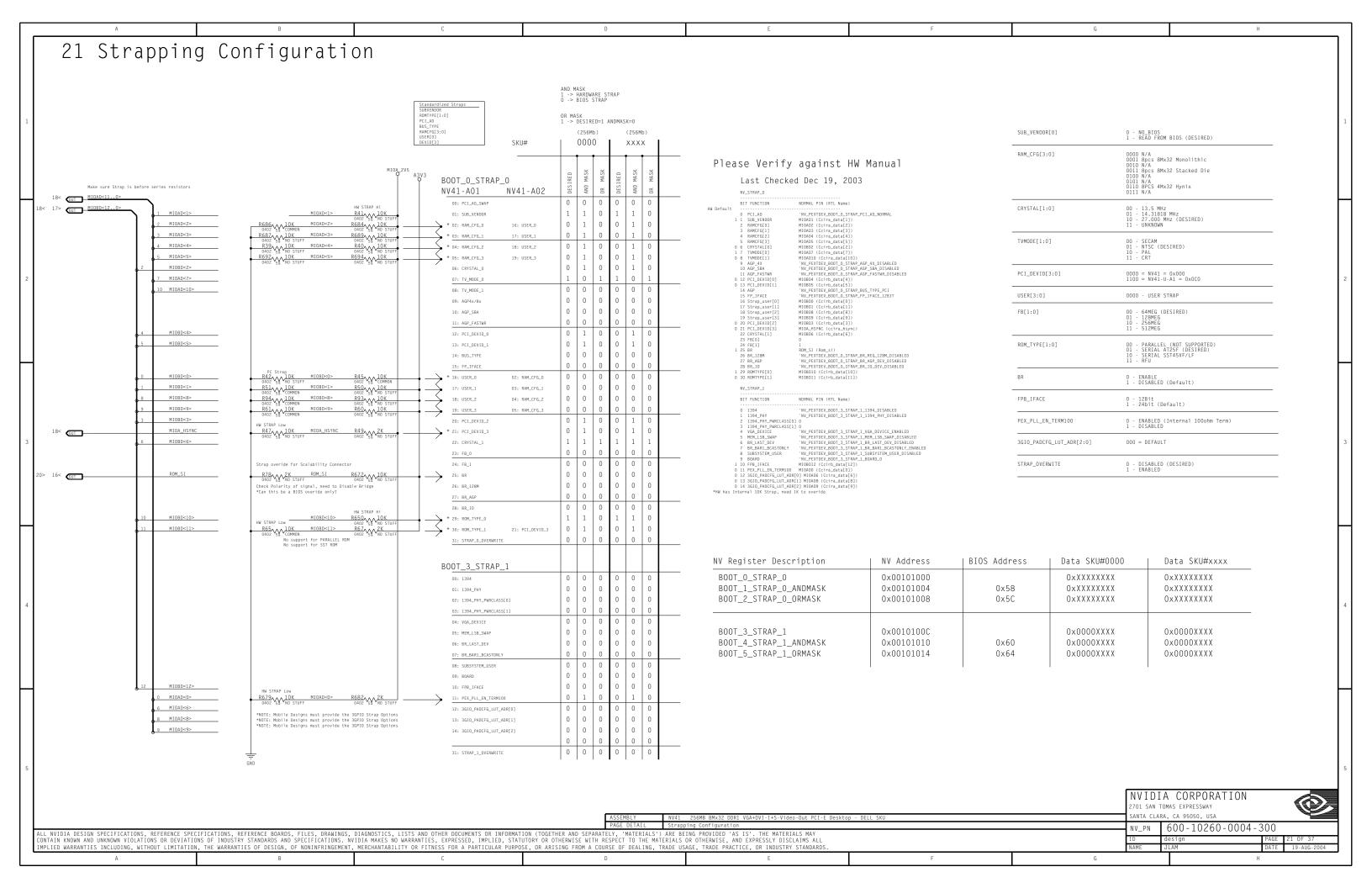


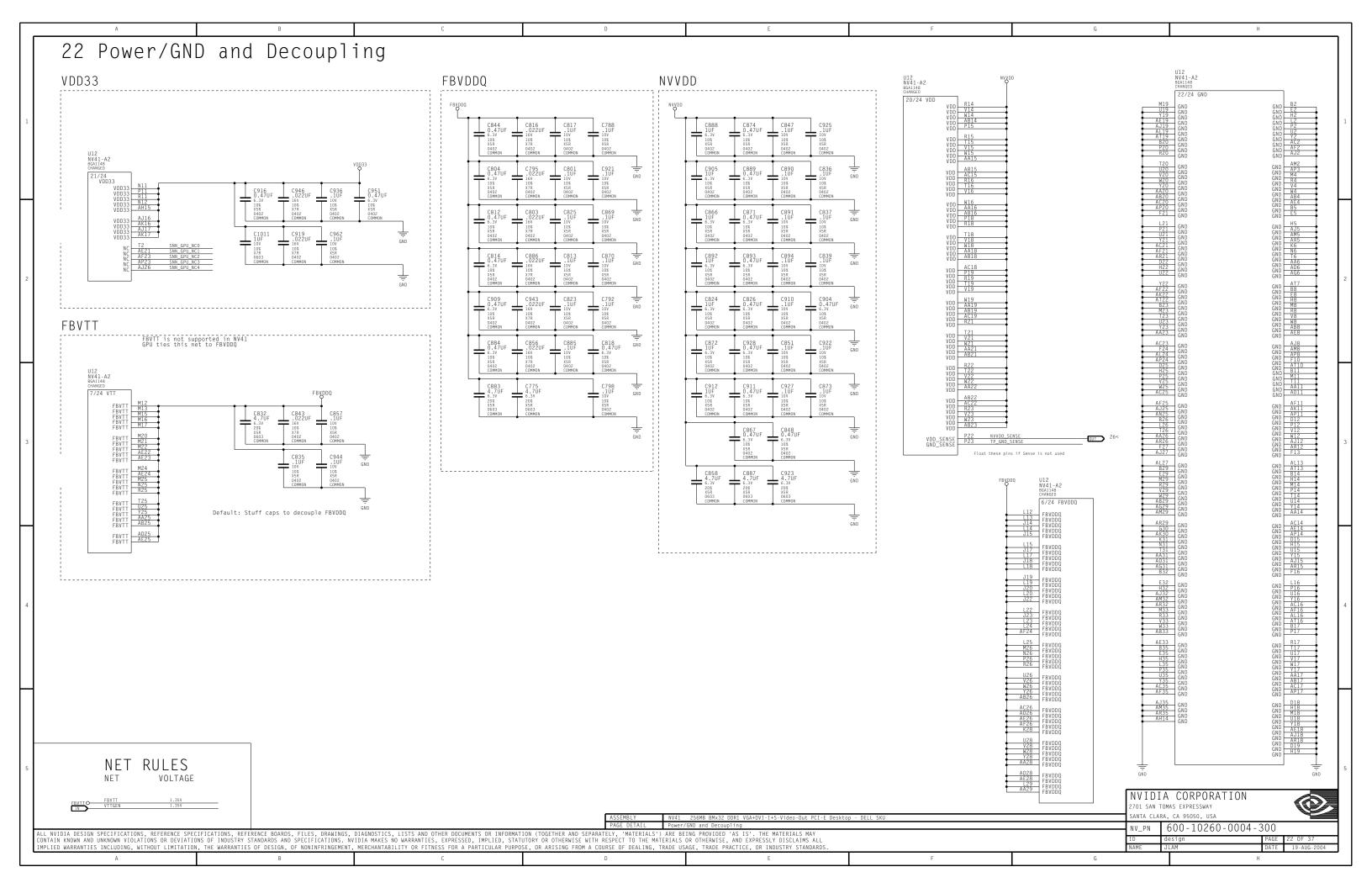






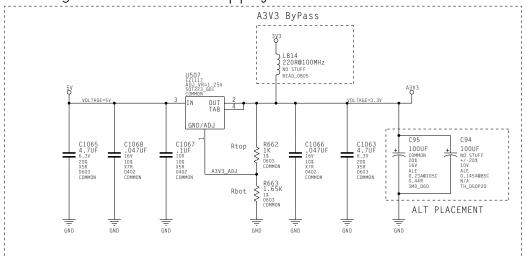




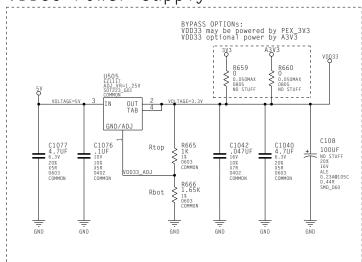


# 23 Power Supply I: Analog 3.3V

## Analog 3.3V Power Supply



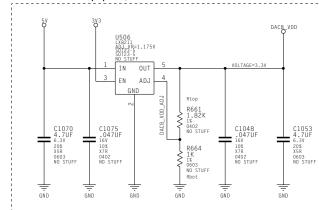
#### VDD33 Power Supply



Vout = VRef \* (1+Rbot/Rtop) 3.31V = 1.25V \* (1+1650/1000)

#### DACB Supply

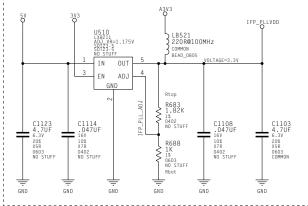
DDC\_5V



Vout = VRef \* (1+Rtop/Rbot) 3.31V = 1.175V \* (1+1820/1000)

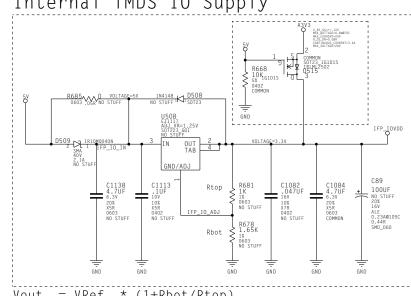
#### Internal TMDS PLL Supply

Vout = VRef \* (1+Rbot/Rtop) 3.31V = 1.25V \* (1+1650/1000)



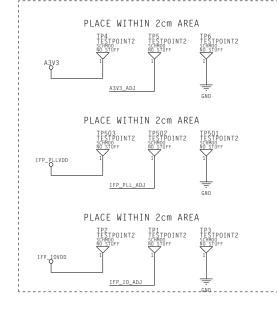
Vout = VRef \* (1+Rtop/Rbot) 2.8V = 1.175V \* (1+1400/1000) 3.31V = 1.175V \* (1+1820/1000)

## Internal TMDS IO Supply

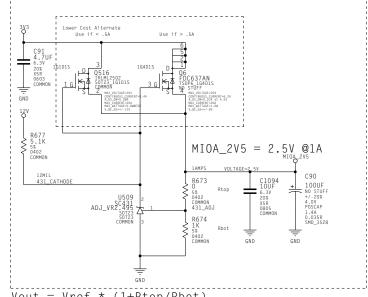


Vout = VRef \* (1+Rbot/Rtop) 3.31V = 1.25V \* (1+1650/1000)

#### SHM00 Testpoints



#### MIOA\_VDDQ

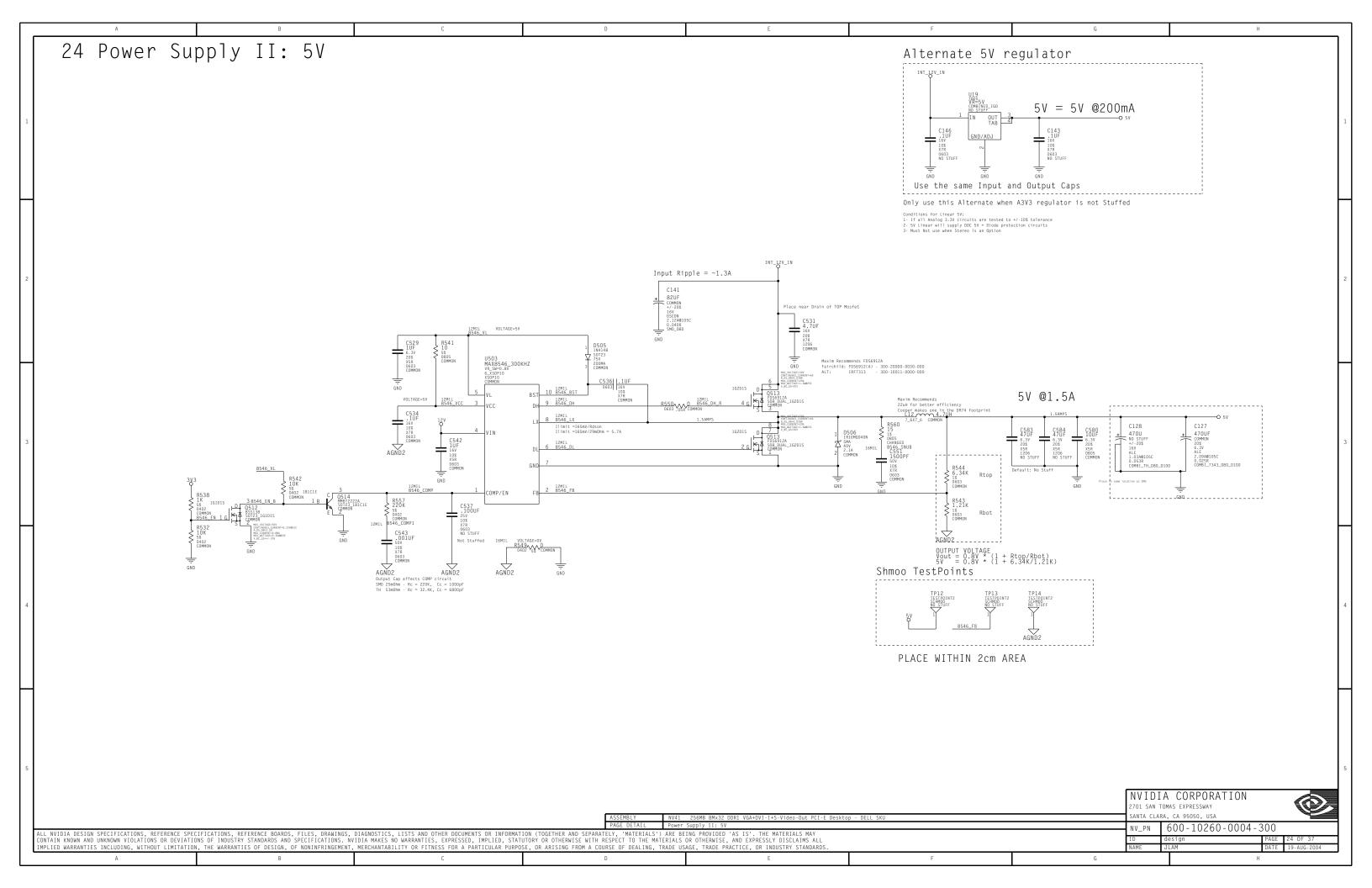


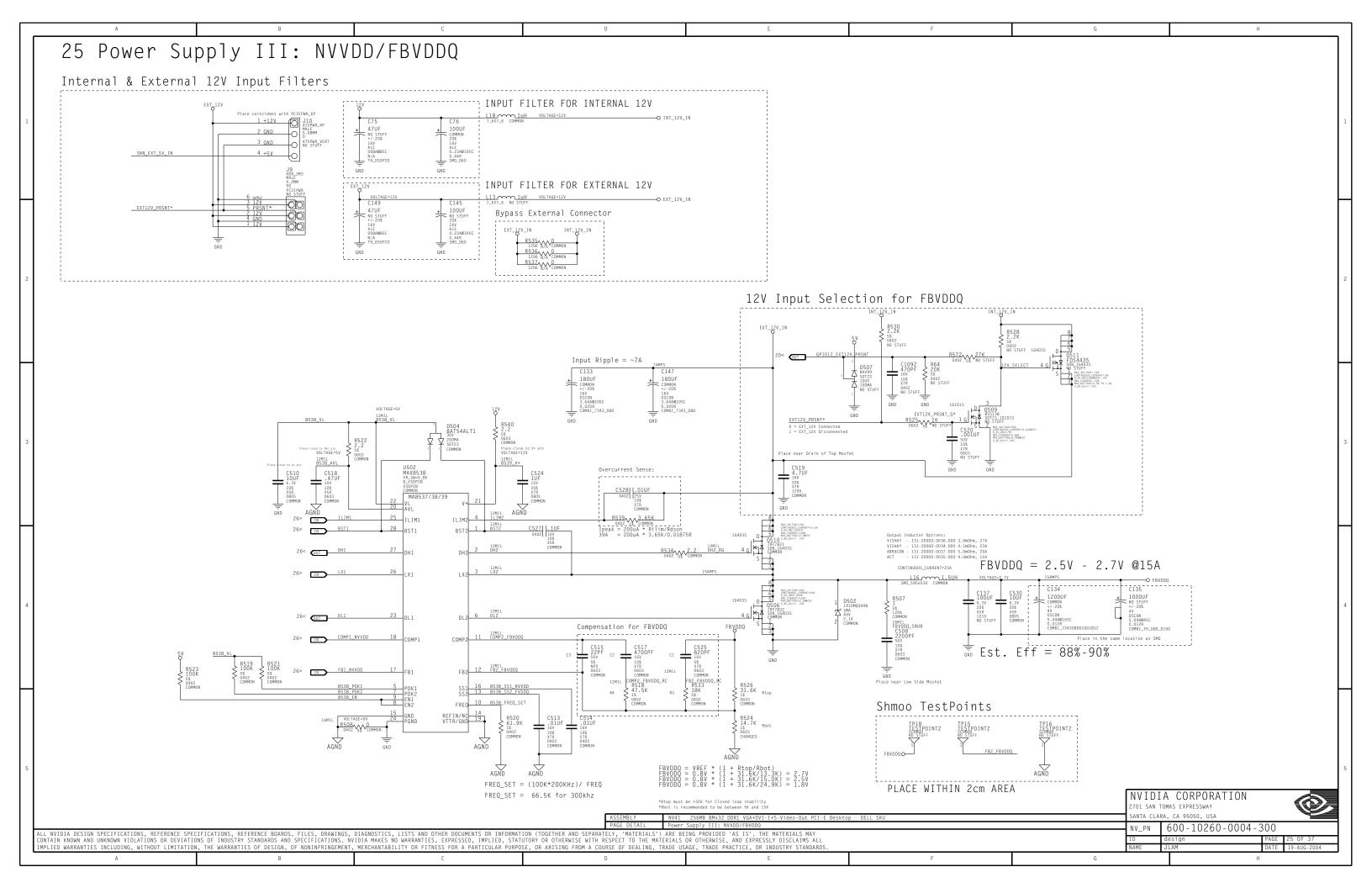
Vout = Vref \* (1+Rtop/Rbot) Vout = 2.5V \* (1+0R/N0 STUFF) = 2.5V

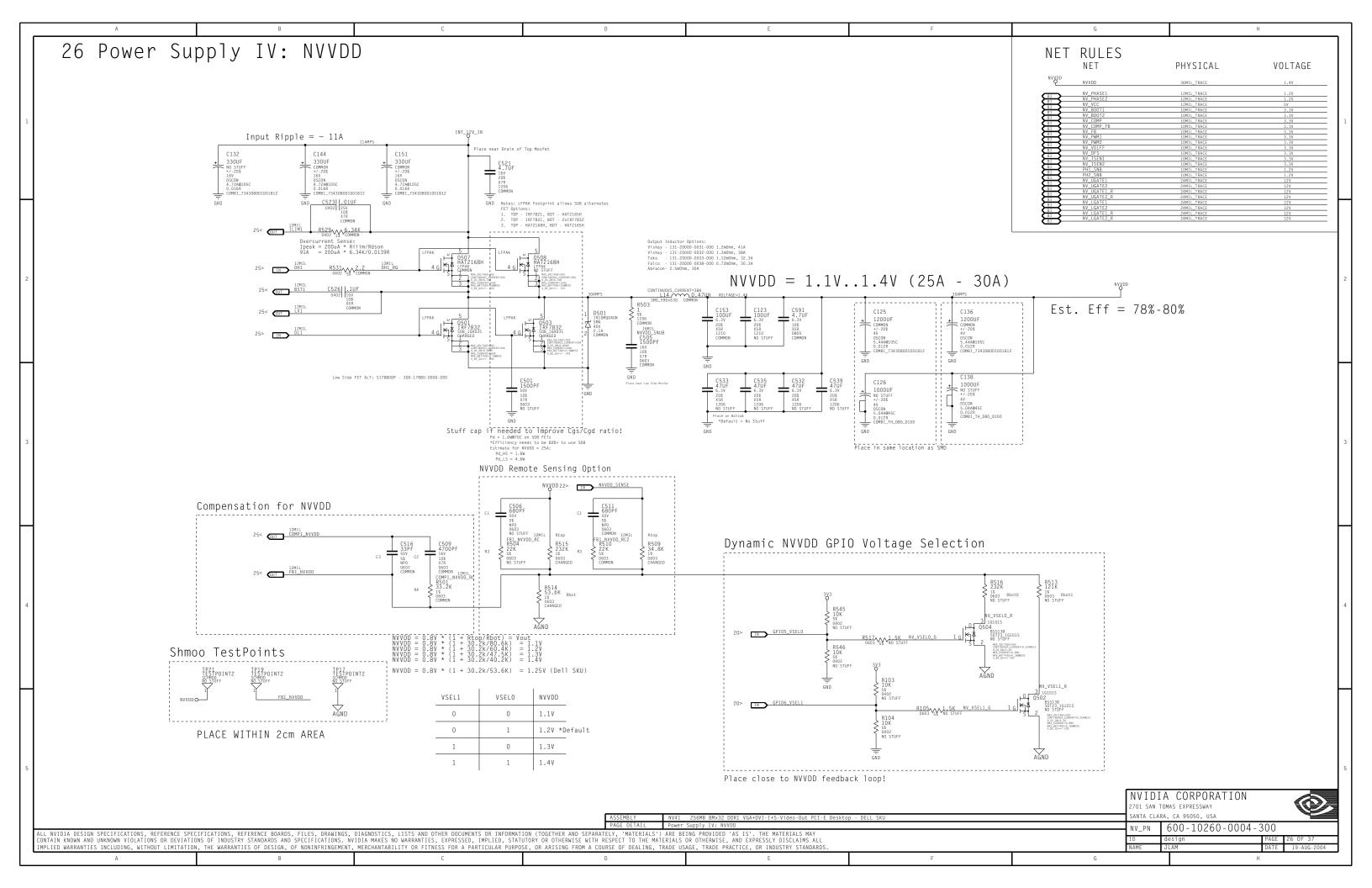
NLL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, 'MATERIALS') ARE BEING PROVIDED 'AS IS'. THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL MPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, OF NONINFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS

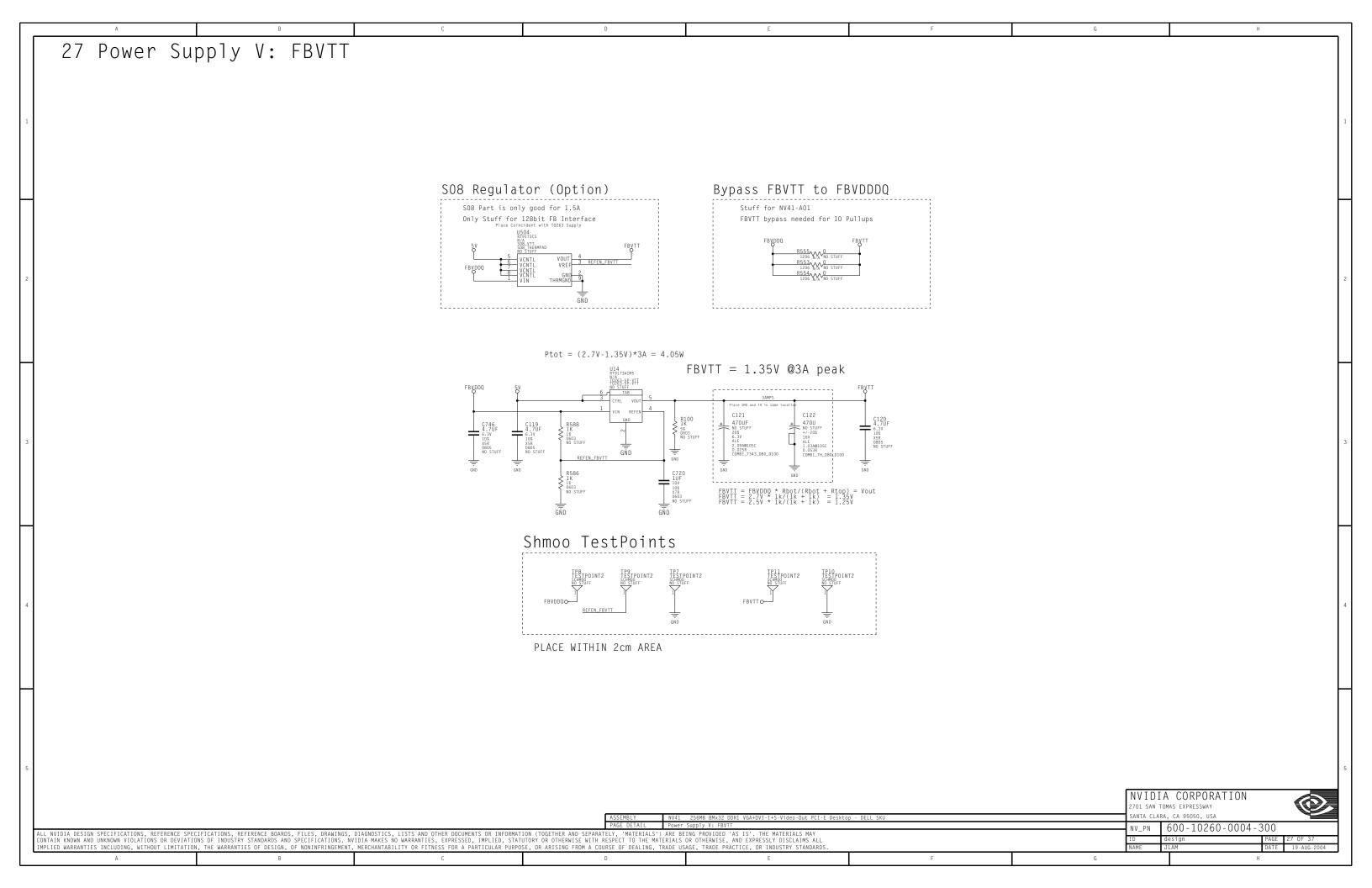
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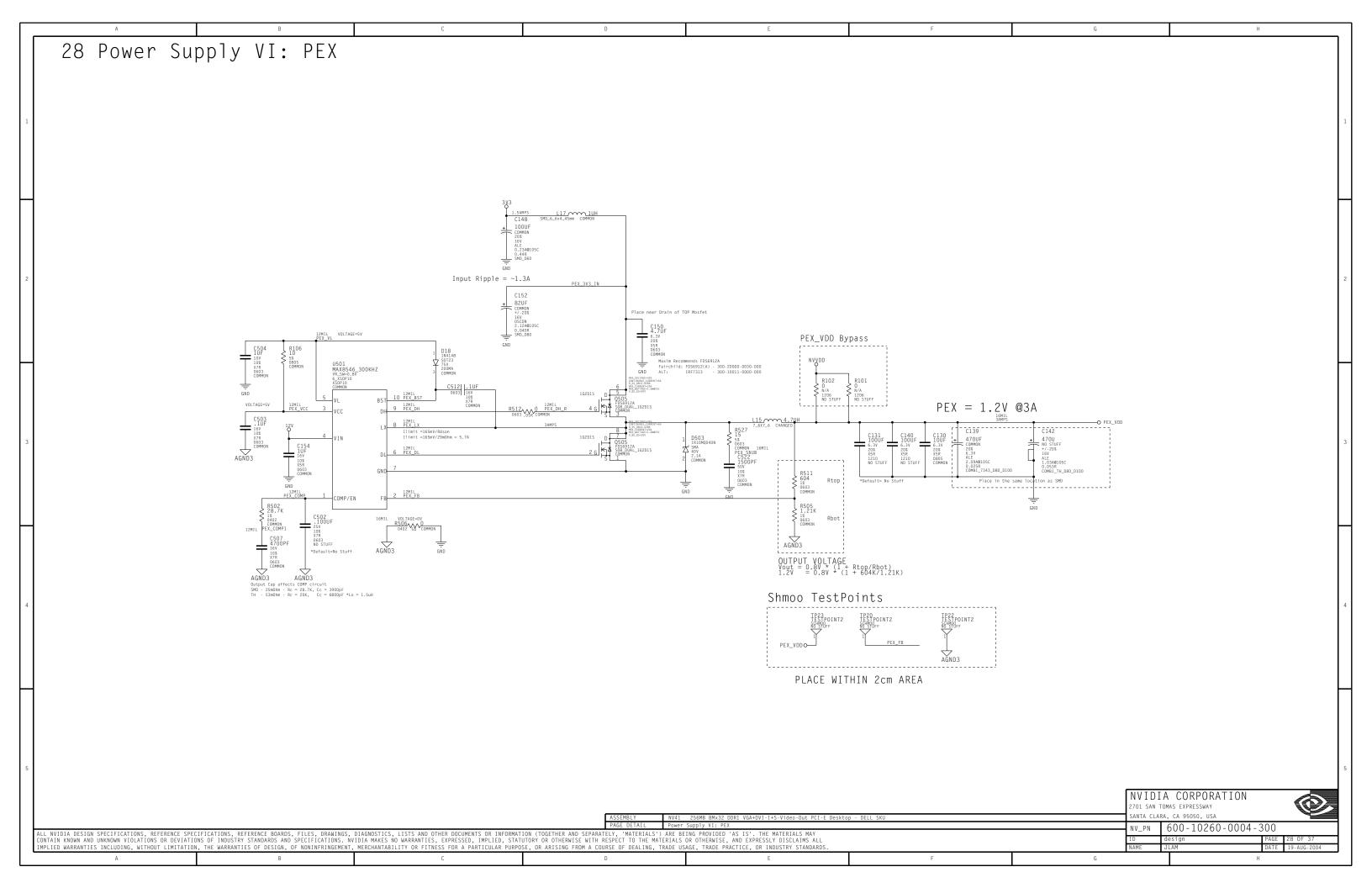
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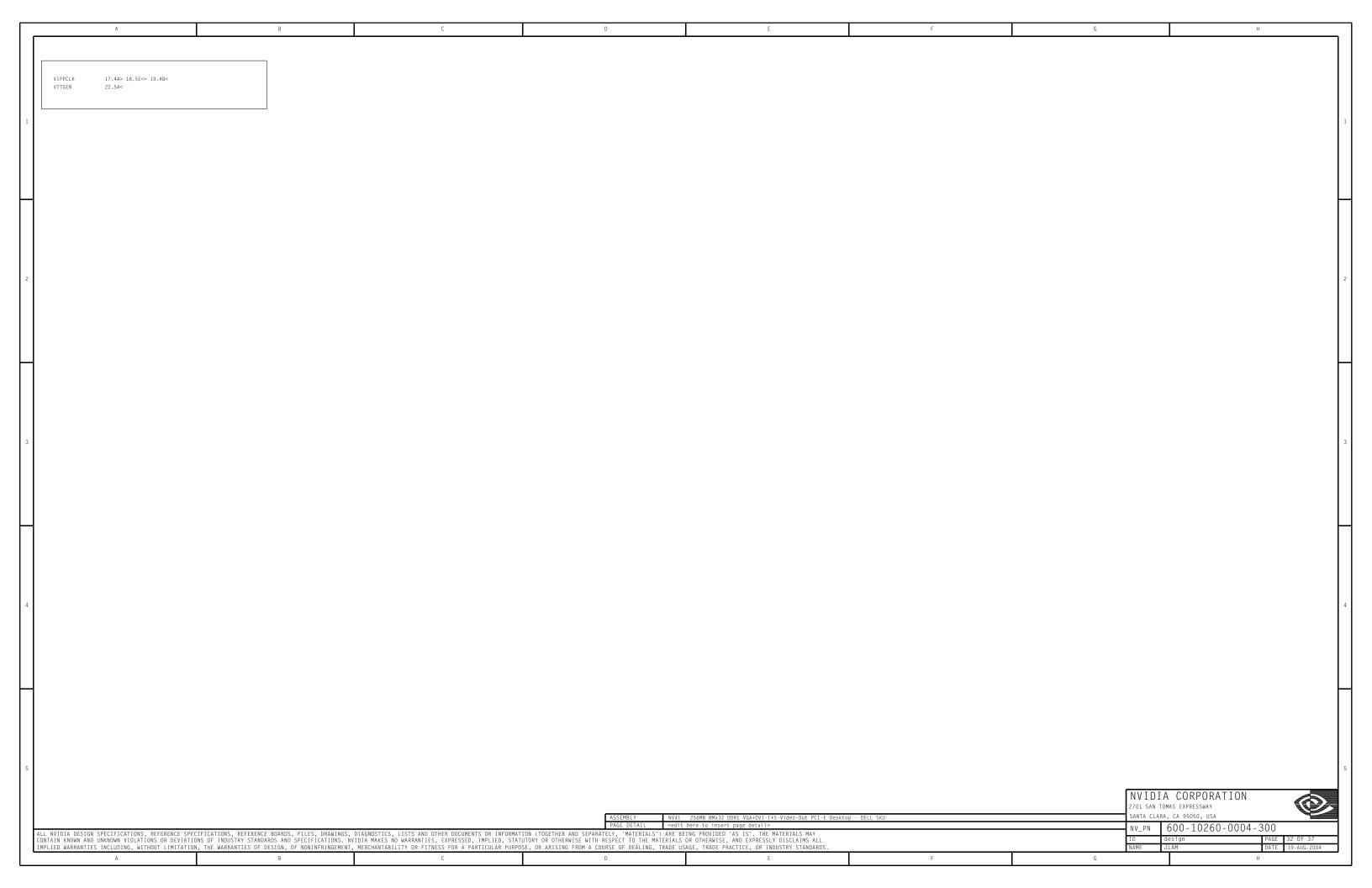






\*\*\* Signal Cross-Reference for the entire design \*\*\* FRAN<48> 3 3R 5 4G 5 5F FRRD<22> 3 2F 7 4F 7 4F FRR CMD<24> 3 2G 7 1B 7 1F FBAD<49> 3.3B 5.4G 5.5E FBBD<23> 3.2F 7.4E 7.4F FBB\_CMD<25> 3.2G 7.1B 7.1E 7.2G FBAD<50> FBB\_PLL\_VDD FBCD<0> 7115\_XIN 17.1G< 17.2C FRAN<51> 3.3B 5.4G 5.5E FBBD<25> 3 2F 7 4F 7 4F 4.1B 9.3F 9.4C 7115 XOUT 17.1G< 17.2C FRAD<52> 3.3B 5.4G 5.5F FRRD<26> 3.2F 7.4F 7.4F FBCD<63..0 4.1A 9.1G 9.4B S 25.4B< 26.2B> FBAD<53> 3.3B 5.4G 5.5E 3.2F 7.4E 7.4F 4.1B 9.4C 9.4F BST1 FBBD<27> FBCD<1> BUFRST\* 17.3A< 20.5F> FBAD<54> 3.3B 5.4G 5.5E FBBD<28> 3.2F 7.4E 7.4F FBCD<2> 4.1B 9.4C 9.4F CHROMAIN 16 5H> 17 2A< FRAN<55> 3 3R 5 4G 5 5F FRRD<29> 3 2F 7 4F 7 4F FRCD<3> 4 1R 9 4C 9 4F FBAD<56> 3.2F 7.4E 7.4F 4.1B 9.4C 9.4F COMP1\_NVVDD 25.4B< 26.4B> 3.3B 5.4G 5.5E FBBD<30> FBCD<4> 16.1F< 16.4C< 19.4F> FBAD<57> FBBD<31> 3.2F 7.4E 7.5F 4.1B 9.4C 9.4F CVBSYIN 16.5C> 17.1A< FRAN<58> 3.3B 5.4G 5.5E FBBD<32> 3 2F 7 3G 7 5C FBCD<6> 4.1B 9.4C 9.4F CVBS\_PBOUT 16.1F< 16.4C< 19.5F> FRAD<59> 3.3B 5.4G 5.5F FRRD<33> 3.2F 7.4G 7.5C FRCD<7> 4.1B 9.4C 9.4F FBBD<34> 3.2F 7.4G 7.5C FBCD<8> CVBS\_YOUT 16.1F< 16.4C 16.4G FBAD<60> 3.3B 5.4G 5.5E 4.1B 9.4D 9.4F FBAD<61> DACA\_BLUE FBBD<35> 4.2B 9.4D 9.4I DACA BILLE DVT 13 3G> 15 2E< FRAN<62> 3 3R 5 4G 5 5F FRRD<36> 3 2F 7 4G 7 5C FRCD<10> 4 2R 9 4D 9 4F DACA\_GREEN 13.3C 13.5A< FBAD<63> 3.3B 5.5E 5.5G FBBD<37> 3.2F 7.4G 7.5C FBCD<11> 4.2B 9.4D 9.4F DACA\_GREEN\_DVI 13.3G> 15.2F< FBADOM<0> 3.3B 5.4B 5.4C 5.5F FBBD<38> DACA\_HS\_DVI 13.2G> 15.2F< FBADOM<7..0> 3.1A> 5.1G<> 5.4B<> FBBD<39> 3.3F 7.4G 7.5C FBCD<13> 4.2B 9.4D 9.4F DACA 12C SCI DVI 13.1G> 15.2F< FBADOM<1> 3.3B 5.4B 5.4D 5.5B FRRD<40> 3.3F 7.4G 7.5D FRCD<14> 4.2B 9.4D 9.4F DACA I2C SDA DVI 13.2G> 15.2F< FBADOM<2> 3.3B 5.4B 5.4E 5.5F FBBD<41> 3.3F 7.4G 7.5D 4.2B 9.4D 9.4F FBCD<15> FBADQM<3> 3.4B 5.4B 5.4E 5.5 FBBD<42> FBCD<16> 4.2B 9.4E 9.4I DACA RED DVI 13 3G> 15 2F< FRADOM<4> 3 4R 5 4R 5 5C 5 5G FRRD<43> 3 3F 7 4G 7 5D FRCD<17> 4.2B 9.4E 9.4F DACA\_VDD 13.3B 13.5A< FBADQM<5> 3.4B 5.4B 5.5D 5.5G FBBD<44> 3.3F 7.4G 7.5D FBCD<18> 4.2B 9.4E 9.4F DACA\_VS\_DVI 13.3G> 15.2F< FBADOM<6> 3.4B 5.4B 5.5E 5.50 FBBD<45> FBCD<19> 4.2B 9.4E 9.4I DACC\_BLUE 14.3C 14.5A< FBADQM<7> 3.4B 5.4B 5.5E 5.5G FBBD<46> 3.3F 7.4G 7.5D FBCD<20> 4.2B 9.4E 9.4F DACC BILLE DVI 14.3G> 15.4F< FBADOS<0> 3.48 5.48 5.4C 5.5F FRRD<47> 3.3F 7.4G 7.5D FRCD<21> 4.2B 9.4E 9.4F DACC GREEN 14.3C 14.5A< FBADOS<7..0> 3.1A 5.1G 5.4B FBBD<48> 3.3F 7.4G 7.5E FBCD<22> 4.2B 9.4E 9.4F DACC\_GREEN\_DVI 14.3G> 15.4F< FBADQS<1> 3.4B 5.4B 5.4D 5.5F FBBD<49> FBCD<23> DACC\_HS\_DVI 14.2G> 15.4F< FRADOS<2> 3.4B 5.4B 5.4E 5.5F FBBD<50> 3.3F 7.4G 7.5E FRCD<24> 4.2B 9.4E 9.4F DACC\_I2C\_SCL\_DVI 14.1G> 15.4F< FBADQS<3> 3.4B 5.4B 5.4E 5.5F FBBD<51> 3.3F 7.4G 7.5E FBCD<25> 4.2B 9.4E 9.4F DACC\_I2C\_SDA\_DVI 14.2G> 15.4F< FBADOS<4> 3.4B 5.4B 5.5C 5.5G FBBD<52> 3.3F 7.4G 7.5E FBCD<26> 4.2B 9.4E 9.4F FBADOS<5> 3.4B 5.4B 5.5D 5.5G 3.3F 7.4G 7.5E FBCD<27> 4.2B 9.4E 9.4F DACC\_RED FBBD<53> DACC\_RED\_DVI 14.3G> 15.4F< FBADOS<6> 3.48 5.48 5.5F 5.5G FRRD<54> 3.3F 7.4G 7.5F FRCD<28> 4.2B 9.4E 9.4F 3.3F 7.4G 7.5E DACC VDD 14.3B 14.5A< FBADOS<7> 3.4B 5.5B 5.5E 5.5G FBBD<55> FBCD<29> 4.2B 9.4E 9.4F DACC\_VS\_DVI 14.3G> 15.4F< FBA\_CLK0 3.2D> 5.1G< 5.2B< FBBD<56> 3.3F 7.4G 7.5E FBCD<30> 4.2B 9.4E 9.4I 25.4B> 26.2B< FBA CLKO\* 3.2D> 5.1G< 5.2B< FBBD<57> 3.3F 7.4G 7.5E FBCD<31> 4.2B 9.4E 9.5F DISP PLLVDD 20.1G< FBA CLK1 3.2D> 5.1G< 5.2D< FRRD<58> 3.3F 7.4G 7.5F FRCD<32> 4.28 9.3G 9.5C 3.3F 7.4G 7.5E 25.4B> 26.2B< 3.2D> 5.1G< 5.2D< FBBD<59> FBCD<33> 4.2B 9.4G 9.5C FBA\_CLK1\* FB1\_NVVDD 25.4B< 26.4B> 26.5B FBA\_CMD<0> 3.1C 5.1B 5.1F FBBD<60> 3.3F 7.4G 7.5E FBCD<34> 4.2B 9.4G 9.5C FRAR PILAVOD 3.1G< 3.4C 3.4G FBA CMD<25..0> 5.1B< 5.1D 5.1G< FRRD<61> 3.3F 7.4G 7.5F FRCD<35> 4.2B 9.4G 9.5C FBAD<0> 3.1B 5.3F 5.4C FBA CMD<0..26> 3.1D> FBBD<62> 3.3F 7.4G 7.5E FBCD<36> 4.2B 9.4G 9.5C FBAD<63..0> 3.1A 5.1G 5.4B FBA\_CMD<1> 3.1C 5.1B 5.1E 5.2G FBBD<63> 3.3F 7.5E 7.5G FBCD<37> 4.2B 9.4G 9.5C FBAD<1> 3.1B 5.4C 5.4F FBA CMD<2> 3.1C 5.1B 5.1F FBBD0M<0> 3.3F 7.4B 7.4C 7.5F FBCD<38> 4.2B 9.4G 9.5C FRAD<2> 3.18 5.4C 5.4F FBA CMD<3> 3.1C 5.1B 5.1F 5.2G FRBDOM<7..0> 3.1F> 7.1G<> 7.4B<> FRCD<39> 4.3B 9.4G 9.5C FBAD<3> 3.3F 7.4B 7.4D 7.5F 3.1B 5.4C 5.4F FBA\_CMD<4> FBBDQM<1> FBCD<40> 4.3B 9.4G 9.5D 3.1C 5.1E 5.1G FBAD<4> 3.1B 5.4C 5.4F FBA\_CMD<5> 3.1C 5.1E 5.1G FBBDQM<2> 3.3F 7.4B 7.4E 7.5F FBCD<41> 4.3B 9.4G 9.5D FRANcs> 3.1B 5.4C 5.4F FRA CMD<6> 3.1C 5.1E 5.1G FRRDOM<3> 3.4F 7.4B 7.4F 7.5F FRCD<42> 4.3B 9.4G 9.5D FBAD<6> 3.1B 5.4C 5.4F FBA CMD<7> 3.1C 5.1B 5.1E 5.2F FBBDOM<4> 3.4F 7.4B 7.5C 7.5G FBCD<43> 4.3B 9.4G 9.5D FBAD<7> 3.1B 5.4C 5.4F FBA\_CMD<8> 3.1C 5.1B 5.1E 5.2F FBBDQM<5> 3.4F 7.4B 7.5D 7.5G FBCD<44> 4.3B 9.4G 9.5D FRAN<8> 3.1B 5.4D 5.4F FBA CMD<9> 3.2C 5.1B 5.1E 5.2F FRRDOM<6> 3 4F 7 4R 7 5F 7 5G FRCD<45> 4.3B 9.4G 9.5D FRAD<9> 3.2B 5.4D 5.4F FBA CMD<10> 3.2C 5.2B 5.2F 5.2G FBBDOM<7> 3.4F 7.4B 7.5F 7.5G FRCD<46> 4.3B 9.4G 9.5D 3.4F 7.4B 7.4C 7.5F 3.2B 5.4D 5.4F FBA\_CMD<11> 3.2C 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3.2H> 7.1G< 7.2B< FRCD<56> 4.3B 9.4G 9.5E FBAD<20> 3.2B 5.4E 5.4F FBA CMD<22> 3.2C 5.1B 5.1F FBB CLKO\* 3.2H> 7.1G< 7.2B< FBCD<57> 4.3B 9.4G 9.5E 3.2B 5.4E 5.4F FBA\_CMD<23> 3.2C 5.1B 5.1E 5.2F 3.2H> 7.1G< 7.2D< FBCD<58> 4.3B 9.4G 9.5E FBAD<21> FBB\_CLK1 FBAD<22> FBA CMD<24> 3.2H> 7.1G< 7.2D< FBCD<59> 4.3B 9.4G 9.5E 3.2B 5.4E 5.4F FBB\_CLK1\* FRAD<23> 3.28 5.4F 5.4F FBA CMD<25> 3.2C 5.1B 5.1F 5.2F FBB CMD<0> 3.1G 7.1B 7.1F FRCD<60> 4.3B 9.4G 9.5F 3.2B 5.4E 5.4F FBB CMD<25..0> 7.1B< 7.1D 7.1G< FBCD<61> 4.3B 9.4G 9.5E FBAD<24> FBA PLLVDD 3.1G< 3.4C 3.1F 7.3F 7.4C 3.2B 5.4E 5.4F FBB\_CMD<0..26> FBCD<62> 4.3B 9.4G 9.5E 3.2B 5.4E 5.4F FRBD<63..0> 3.1E > 7.1G > 7.4B > FBB\_CMD<1> 3.1G 7.1B 7.1E 7.2F FBCD<63> 4.3B 9.5E 9.5G FBAD<26> FBAD<27> 3.2B 5.4E 5.4F FBBD<1> 3.1F 7.4C 7.4F FBB CMD<2> 3.1G 7.1B 7.1F FBCDOM<0> 4.3B 9.4B 9.4C 9.5F 3.1F 7.4C 7.4F FBB\_CMD<3> 3.1G 7.1B 7.1E 7.2F FBAD<28> 3.2B 5.4E 5.4F FBBD<2> FBCDQM<7..0 4.1A> 9.1G<> 9.4B<> FBAD<29> 3.2B 5.4E 5.4F FBBD<3> 3.1F 7.4C 7.4F FBB\_CMD<4> 3.1G 7.1E 7.1G FBCDQM<1> 4.3B 9.4B 9.4D 9.5F FRAD<30> 3.28 5.4F 5.4F FBBD<4> 3.1F 7.4C 7.4F FBB CMD<5> 3.1G 7.1F 7.1G FRCDOM<2> 4.3B 9.4B 9.4F 9.5F FBAD<31> 3.2B 5.4E 5.5F FBBD<5> 3.1F 7.4C 7.4F FBB CMD<6> 3.1G 7.1E 7.1G FBCDOM<3> 4.4B 9.4B 9.4E 9.5F FBAD<32> 3.2B 5.3G 5.5C FBBD<6> 3.1F 7.4C 7.4F FBB\_CMD<7> 3.1G 7.1B 7.1E 7.2F FBCDQM<4> FBAD<33> FBBD<7> FBB\_CMD<8> 3.1G 7.1B 7.1E 7.2F FBCDQM<5> 4.4B 9.4B 9.5D 9.5G 3.2B 5.4G 5.5 3.1F 7.4C 7.4F FBAD<34> 3.2B 5.4G 5.5C FBBD<8> 3.1F 7.4D 7.4F FBB CMD<9> 3.2G 7.1B 7.1E 7.2F FBCDOM<6> 4.4B 9.4B 9.5E 9.5G FBAD<35> 3.2B 5.4G 5.5C FBBD<9> 3.2F 7.4D 7.4F FBB\_CMD<10> 3.2G 7.2B 7.2E 7.2F FBCDQM<7> 4.4B 9.4B 9.5E 9.5G FBBD<10> FBCDQS<0> FBAD<36 3.2F 7.4D 7.4F FBB\_CMD<11> 3.2G 7.2B 7.2B 7.2E 4.4B 9.4B 9.4C 9.5B FBAD<37> 3.2B 5.4G 5.5C FRRD<11> 3.2F 7.4D 7.4F FRR CMD<13> 3.2G 7.1E 7.1G FBCDOS<7..03 4.1A 9.1G 9.4B 3.2F 7.4D 7.4F 3.2G 7.1B 7.1E 7.2G FBAD<38> 3.2B 5.4G 5.5C FBBD<12> FBB CMD<14> FBCDOS<1> 4.4B 9.4B 9.4D 9.5F FBAD<39> 3.3B 5.4G 5.5C FBBD<13> 3.2F 7.4D 7.4F FBB\_CMD<15> 3.2G 7.1B 7.1E 7.2G FBCDQS<2> 4.4B 9.4B 9.4E 9.5F 3.3B 5.4G 5.5D 3.2F 7.4D 7.4F FBB\_CMD<16> 4.4B 9.4B 9.4E 9.5F FBAD<40> FBBD<14> 3.2G 7.1B 7.1E 7.2F FBCDQS<3> FRAN<41> 3 3R 5 4G 5 5D FRRD<15> 3 2F 7 4D 7 4F FRR CMD<17> 3 2G 7 1R 7 1F 7 2F FRCDOS<4> 4 4B 9 4B 9 5C 9 5G 3.2F 7.4E 7.4F FBB\_CMD<18> 4.4B 9.4B 9.5D 9.5G FBAD<42> 3.3B 5.4G 5.5D FBBD<16> 3.2G 7.2B 7.2E 7.2G FBCDQS<5> 3.3B 5.4G 5.5 FBB\_CMD<19> 4.4B 9.4B 9.5E 9.50 FRAD<44> 3.38 5.4G 5.5D FRRD<18> 3.2F 7.4F 7.4F FBB CMD<20> 3.2G 7.1B 7.1F 7.2G FRCDOS<7> 4.4B 9.5B 9.5E 9.5G FBAD<45> 3.3B 5.4G 5.5D FBBD<19> 3.2F 7.4E 7.4F FBB CMD<21> 3.2G 7.1B 7.1E 7.2G FBCD AVDD 4.1G< 4.2D> 9.1G< 9.2B< 3.3B 5.4G 5.5D 3.2F 7.4E 7.4F FBB\_CMD<22> 3.2G 7.1B 7.1F FBAD<46> FBBD<20> FBC\_CLK0 FBAD<47> 3.3B 5.4G 5.5D FBBD<21> FBB\_CMD<23> 3.2G 7.1B 7.1E 7.2G FBC\_CLK0\* 4.2D> 9.1G< 9.2B< NVIDIA CORPORATION 701 SAN TOMAS EXPRESSWAY ANTA CLARA CA 95050 USA 600 - 10260 - 0004 - 300 NV\_PN LL NVIDIA DESIGN 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FRC CLK1 4 2N> 9 1G< 9 2N< FRNN<58> 4 3F 11 4G 11 5F MINAN<9> 21 5A PFY RY10\* 2 3H> 2 4R 4.2D> 9.1G< 9.2D< FBDD<59> 4.3F 11.4G 11.5E MIOAD<10> PEX\_RX11 2.3H> 2.4B FBC\_CLK1\* 21.2A 18.1G< 18.2F 18.3D FBC\_CMD<0 4.1C 9.1B 9.1F FBDD<60> MIOA\_CLKOU PEX\_RX11\* FBC\_CMD<25..0> 9.1B< 9.1D 9.1G< FRNN<61> 4.3F 11.4G 11.5E MIOA\_DE 18.1G< 18.2D 18.2F PEX\_RX12 2.3H> 2.4B FBC CMD<0..26> 4.1D> FBDD<62> 4.3F 11.4G 11.5F MIOA HSYNC 18.1G< 18.3G< 18.3G< 21.3A> 21.3B PFX RX12\* 2.3H> 2.4B 4.1C 9.1B 9.1E 9.2F FBC\_CMD<1> FBDD<63> MIOA\_VDDQ PEX\_RX13 2.3H> 2.5B 4.3F 11.5E 11.5G 18.1G< 18.2B FBC\_CMD<2> 4.1C 9.1B 9.1F FBDDQM<0> 4.3F 11.4B 11.4C 11.5F MIOA\_VSYNC 18.1G< 18.2F 18.3D PEX\_RX13\* 2.3H> 2.5B FRC CMD<3> 4 1C 9 1B 9 1F 9 2F FRNNOM<7 O> 4 1F> 11 1G<> 11 4R<> MINRD<0> 21.3A 21.3B PFY RY14 2 3H> 2 5R FBC\_CMD<4> 4.1C 9.1E 9.1G FBDDQM<1> 4.3F 11.4B 11.4D 11.5F MIOBD<7..0> 2.3H> 2.5B 17.3A> PEX\_RX14\* FBC\_CMD<5 4.1C 9.1E 9.1G FBDDQM<2> MIOBD<11..0> 18.4E< PEX\_RX15 FBC CMD<6> 4.1C 9.1E 9.1G FRNNNM<3> 4 4F 11 4R 11 4F 11 5F MIOBD<12..0> 21.2A> PEX\_RX15\* 2.3H> 2.5B FBC CMD<7> 4.1C 9.1B 9.1F 9.2G FBDDOM<4> 4.4F 11.4B 11.5C 11.5G MIORD<23..0> 18.2G< PFX TXO 2.2C 2.3H> FBC\_CMD<8> FBDDQM<5> 4.4F 11.4B 11.5D 11.5G PEX\_TX0\* 2.2C 2.3H> 4.1C 9.1B 9.1E 9.2F MIOBD<1> 21.3A 21.3B FBDDQM<6> FBC\_CMD<9> 4.4F 11.4B 11.5E 11.50 MIOBD<2> 21.2A PEX\_TX1 2.2C 2.3H> FRC CMD<10> 4 2C 9 2B 9 2F 9 2F FRNNNM<7> 4 4F 11 4B 11 5F 11 5G MINRN<3> 21 3∆ PFY TY1\* 2.2C 2.3H> FBC\_CMD<11> 4.2C 9.2B 9.2B 9.2E FBDDQS<0> 4.4F 11.4B 11.4C 11.5F MIOBD<4> 21.2A PEX\_TX2 2.2C 2.3H> FBC CMD<13> 4.1E⇔ 11.1G⇔ 11.4B⇔ MIOBD<5> 21.2A PEX\_TX2\* FBC\_CMD<14> 4.2C 9.1B 9.1E 9.2G FBDDOS<1> 4.4F 11.4B 11.4D 11.5F MIOBD<6> 21.3A PEX\_TX3 2.2C 2.3H> FBC CMD<15> 4.2C 9.1B 9.1F 9.2F FBDDOS<2> 4.4F 11.4B 11.4F 11.5F MIORD<8> 18.4D 21.3A 21.3B PEX TX3\* 2.2C 2.3H> FBC CMD<16> 4.2C 9.1B 9.1E 9.2G FBDDOS<3> 4.4F 11.4B 11.4E 11.5F MIOBD<9> 18.4D 21.3A 21.3B PEX TX4 2.3C 2.3H> FBC\_CMD<17> 4.2C 9.1B 9.1E 9.2F FBDDQS<4 4.4F 11.4B 11.5C 11.5C MIOBD<10> 18.4D 21.3A 21.3E PEX\_TX4\* 2.3C 2.3H> FRC CMD<18> 4.2C 9.2B 9.2E 9.2G FRNNNS<5> 4 4F 11 4R 11 5D 11 5G MIORD<11> 18 4D 21 4A 21 4B PEX TX5 2.3C 2.3H> FBC\_CMD<19> 4.2C 9.1B 9.1E 9.2G FBDDQS<6> 4.4F 11.4B 11.5E 11.5G MIOBD<12> 21.4A PEX\_TX5\* 2.3C 2.4H> FBC CMD<20> 4.2C 9.1B 9.1E 9.2G FBDDOS<7 MIOBD R<23..0> 18.1G< PEX\_TX6 2.3C 2.4H> FBC\_CMD<21> 4.2C 9.1B 9.1E 9.2G FBD\_CLK0 4.2H> 11.1G< 11.2B< MIOB\_CLKOUT 18.2G< 18.2G< PEX\_TX6\* 2.3C 2.4H> FBC CMD<22> 4.2C 9.1B 9.1F FBD CLKO\* 4.2H> 11.1G< 11.2B< MIOR CLKOUT\* 18.2G< 18.2G< PFX TX7 2.3C 2.4H> FBC CMD<23> 4.2C 9.1B 9.1E 9.2G FBD CLK1 4.2H> 11.1G< 11.2D< MIOB CLKOUT R 18.2G< 18.2G< PEX TX7\* 2.3C 2.4H> MIOB\_CLKOUT\_R\* FBC\_CMD<24> 4.2C 9.1B 9.1F FBD\_CLK1\* 4.2H> 11.1G< 11.2D< 18.2G< 18.2G PEX\_TX8 2.3C 2.4H> FBC CMD<25> 4.2C 9.1B 9.1E 9.2F FBD CMD<0> 4.1G 11.1B 11.1F MIOB DE 18.2G< PEX TX8\* 2.3C 2.4H> FBC\_PLLVDD 4.1G< 4.4C FBD\_CMD<25..0> 11.1B< 11.1D 11.1G< MIOB\_DE\_R 18.1G< PEX\_TX9 2.4C 2.4H> 4.1F 11.3F 11.4C FBD\_CMD<0..26> 4.1H> MIOB\_HSYNC 18.2G< PEX\_TX9\* 2.4C 2.4H> FBDD<0> FBDD<63..0> 4.1E⇔ 11.1G⇔ 11.4B⇔ FBD\_CMD<1> 4.1G 11.1B 11.1E 11.2F MIOB\_HSYNC\_R 2.4C 2.4H> 18.1G< PEX\_TX10 FBDD<1> 4.1F 11.4C 11.4F FBD CMD<2> 4.1G 11.1B 11.1F MIOR VDDO 18.1G< 18.4B PEX\_TX10\* 2.4C.2.4H> 4.1G 11.1B 11.1E 11.2F 2.4C 2.4H> FBDD<2> 4.1F 11.4C 11.4F FBD CMD<3> MIOB VSYNC 18.2G< PEX TX11 FBDD<3> 4.1F 11.4C 11.4F FBD\_CMD<4> 4.1G 11.1E 11.1G MIOB\_VSYNC\_R PEX\_TX11\* 2.4C 2.4H> 18.1G< FRNN<4> 4.1F 11.4C 11.4F FBD CMD<5> 4.1G 11.1E 11.1G NVVDD SENSE 22.3G> 26.3D< PEX\_TX12 2.4C 2.4H> FRDD<5> 4.1F 11.4C 11.4F FBD CMD<6> 4.1G 11.1F 11.1G NV BOOT1 26.1G<> PFX TX12\* 2.4C.2.4H> FBDD<6> 4.1F 11.4C 11.4F FBD\_CMD<7> NV\_BOOT2 2.4C 2.4H> 4.1G 11.1B 11.1E 11.2 26.1G PEX\_TX13 FBDD<7> 4.1F 11.4C 11.4F FBD\_CMD<8> 4.1G 11.1B 11.1E 11.2F NV\_COMP 26.1G PEX\_TX13\* 2.4C 2.4H> FRDD<8> 4.1F 11.4D 11.4F FRD CMD<9> 4.2G 11.1B 11.1F 11.2F NV COMP FR 26.1G<> PFX TX14 2.4H> 2.5C FBDD<9> 4.2F 11.4D 11.4F FBD CMD<10> 4.2G 11.2B 11.2E 11.2G NV FB 26.1G<> PEX TX14\* 2.4H> 2.5C FBDD<10> 4.2F 11.4D 11.4F FBD\_CMD<11> 4.2G 11.2B 11.2B 11.2E NV\_ISEN1 26.1G PEX\_TX15 2.4H> 2.5C FBDD<11> 4.2F 11.4D 11.4F FBD CMD<13> 4.2G 11.1E 11.1G NV ISEN2 26.1G<> PEX TX15\* 2.4H> 2.5C FRDD<12> 4.2F 11.4D 11.4F FRD CMD<14> 4.2G 11.1B 11.1F 11.20 NV IGATE1 26.2G<> PFX TXX0 2.1H> 2.2B FBD\_CMD<15> FBDD<13> 4.2F 11.4D 11.4F 4.2G 11.1B 11.1E 11.2F NV\_LGATE1\_R 26.2G<> PEX\_TXX0\* 2.1H> 2.2B 4.2F 11.4D 11.4F FBD\_CMD<16> 4.2G 11.1B 11.1E 11.2G NV\_LGATE2 PEX\_TXX1 2.1H> 2.2B FBDD<14> 26.2G<> FRDD<15> 4.2F 11.4D 11.4F FBD CMD<17> 4.2G 11.1B 11.1F 11.2F NV\_LGATE2\_R 26.2G<> PEX\_TXX1\* 2.1H> 2.2B FBDD<16> 4.2F 11.4E 11.4F FBD CMD<18> 4.2G 11.2B 11.2E 11.2F NV OFS 26.1G<> PEX TXX2 2.1H> 2.2B FBDD<17> 4.2F 11.4E 11.4F FBD\_CMD<19> 4.2G 11.1B 11.1E 11.2G NV\_PHASE1 26.1G PEX\_TXX2\* 2.1H> 2.2B FRNN<18> 4.2F 11.4E 11.4F FRD CMD<20> 4.2G 11.1B 11.1E 11.2G NV PHASE2 26 1G<> PEX\_TXX3 2.1H> 2.2B FRDD<19> 4.2F 11.4F 11.4F FRD CMD<21> 4.2G 11.1B 11.1F 11.2G NV PWM1 26.1G<> PFX TXX3\* 2.1H> 2.2B 4.2F 11.4E 11.4F FBD\_CMD<22> 26.1G 2.1H> 2.3B FBDD<20> 4.2G 11.1B 11.1F NV\_PWM2 PEX\_TXX4 FBDD<21> 4.2F 11.4E 11.4F FBD\_CMD<23> 4.2G 11.1B 11.1E 11.2G NV\_UGATE1 26.1G PEX\_TXX4\* 2.1H> 2.3B FRDD<22> 4.2F 11.4E 11.4F FBD CMD<24> 4.2G 11.1B 11.1F NV LIGATE1 R 26.1G<> PEX\_TXX5 2.1H> 2.3B FBDD<23> 4.2F 11.4E 11.4F FBD CMD<25> 4.2G 11.1B 11.1E 11.2G NV UGATE2 26.1G<> PEX TXX5\* 2.1H> 2.3B NV\_UGATE2\_R FBDD<24> 4.2F 11.4E 11.4F FBD\_PLLVDD 4.1G< 4.4G 26.2G<> PEX\_TXX6 2.1H> 2.3B FBDD<25> 4.2F 11.4E 11.4F GPI00\_DVI\_A\_HPD 15.3D> 20.2E< 26.1G PEX\_TXX6\* 2.1H> 2.3B NV\_VCC FBDD<26> 4.2F 11.4F 11.4F GPI01 DVI C HPD 15.5D> 20.2F< NV VDIFF 26.1G<> PFX TXX7 2.1H> 2.3B 16.2F> 20.3E< 2.2E 2.5G< PEX\_TXX7\* FBDD<27> 4.2F 11.4E 11.4F GPI04\_PVA\_IRQ PEX\_IOVDD 2.1H> 2.3B FBDD<28> 4.2F 11.4E 11.4F GPI05\_VSEL0 20.3E> 26.4E< PEX\_IOVDDQ 2.2E 2.4E 2.5G PEX\_TXX8 2.1H> 2.3B FRDD<29> 4.2F 11.4E 11.4F GPI06\_VSEL1 20.3F> 26.5F< PEX\_PLLAVDD 2.5F 2.5G< PEX\_TXX8\* 2.2H> 2.3B FBDD<30> 4.2F 11.4E 11.4F GPI010 480P 19.5B< 20.3E> PEX PLLDVDD 2.5E 2.5G< PEX TXX9 2.2H> 2.4B FBDD<31> 4.2F 11.4E 11.5F GPI012\_EXT12V\_PRSNT 20.3D< 20.3D< 20.3F 25.2E> PEX\_PLL\_CLK\_OUT 2.4D 2.4H> PEX\_TXX9\* 2.2H> 2.4B FBDD<32> 4.2F 11.3G 11.5C 16.2D 16.2G 16.3H< 17.3A< 20.1F> PEX\_PLL\_CLK\_OUT\* 2.4D 2.4H> PEX\_TXX10 2.2H> 2.4B I2CC\_SCL FRDD<33> 4.2F 11.4G 11.5C 20.2C< PEX REECLK 2.1H> 2.2C> 19.2B PFX TXX10\* 2.2H> 2.4B 16.2D 16.2G 16.4H<> 17.3A<> FBDD<34> 4.2F 11.4G 11.5C I2CC SDA PEX REFCLK\* 2.1H> 2.2C> 19.2B< PEX TXX11 2.2H> 2.4B PEX\_REFCLK\_OUT 2.1H> 2.2C< 19.2G> FBDD<35> 4.2F 11.4G 11.5C 20.1F > 20.2C > PEX\_TXX11 2.2H> 2.4B FRDD<36> 4.2F 11.4G 11.5C ICS9DB202\_CLK\_OUT 19.1H> 19.2D PEX\_REFCLK\_OUT\* 2.1H> 2.2C< 19.2G PEX\_TXX12 2.2H> 2.4B FBDD<37> 4.2F 11.4G 11.5C ICS9DB202 CLK OUT\* 19.1H> 19.2D PEX RXO 2.2B 2.2H> PEX TXX12\* 2.2H> 2.4B ICS9DB202\_CLK\_OUT\_R 19.1H> 19.2E PEX\_RXO\* 2.2B 2.2H> PEX\_TXX13 FBDD<38> 4.2F 11.4G 11.5C 2.2H> 2.4B FBDD<39> 4.3F 11.4G 11.5C ICS9DB202\_CLK\_OUT\_R\* 19.1H> 19.2E PEX\_RX1 2.2B 2.2H> PEX\_TXX13\* 2.2H> 2.4B FRDD<40> 4.3F 11.4G 11.5D IFPAB\_PLLVDD 15.1B 15.1G< PEX\_RX1\* 2.2B 2.2H> PFX TXX14 2.2H> 2.5B FBDD<41> 4.3F 11.4G 11.5D IFPA IOVDD 15.1G< PEX RX2 2.2B 2.2H> PEX TXX14\* 2.2H> 2.5B FBDD<42> 4.3F 11.4G 11.5D IFPB\_IOVDD 15.1G< PEX\_RX2\* 2.2B 2.2H> PEX\_TXX15 2.2H> 2.5B FBDD<43> 4.3F 11.4G 11.5D IFPCD\_PLLVDD 15.1G< 15.3B PEX\_RX3 PEX\_TXX15\* 2.2H> 2.5B 2.2H> 2.3B FBDD<44> 4.3F 11.4G 11.5D IFPC IOVDD 15.1G< PEX RX3\* 2.2H> 2.3B PH1 SNB 26.1G<> 2.2H> 2.3B FBDD<45> 4.3F 11.4G 11.5D IFPD\_IOVDD 15.1G< PEX\_RX4 PH2\_SNB 26.1G<> 20.1G< 20.3C 25.3B< 26.2B> 2.2H> 2.3B PLLAVDD FBDD<46> ILIM1 PEX\_RX4 FBDD<47> 4.3F 11.4G 11.5D LX1 25.4B< 26.2B> PEX\_RX5 2.2H> 2.3B PLIVDD 20.1G< 20.3C 2.2H> 2.3B FBDD<48> 4.3F 11.4G 11.5E MIOAD<0> 21.5A 21.5B PEX RX5\* ROM SCLK 16.1A< 20.4F> FBDD<49> 4.3F 11.4G 11.5E MIOAD<11..0> 18.1G< 18.1G< 18.1G< 21.2A> PEX\_RX6 2.2H> 2.3B ROM\_SI 16.1A< 20.4F> 21.3A> 21.3B 4.3F 11.4G 11.5E MIOAD<1> PEX\_RX6\* 2.2H> 2.3B 16.2A> 20.4F< FBDD<50> 21.2A 21.2B ROM\_SO FRNN<51> 4 3F 11 4G 11 5F MINAN<2> 21 2A 21 2B PEX RX7 2 3R 2 3H> SEC CHROMA2 16 2D> 17 2A< FBDD<52> 4.3F 11.4G 11.5E MIOAD<3> PEX\_RX7\* SEC\_CVBS1 16.2D> 17.2A< 21.2A 21.2B 2.3B 2.3H> FBDD<53> MIOAD<4> 21.2A 21.2B PEX\_RX8 SEC\_CVBS2 FRDD<54> 4.3F 11.4G 11.5F MIOAD<5> 21.2A 21.2B PEX\_RX8\* 2.3H> 2.4B SEC LUMA2 16.2D> 17.1A< FBDD<55> 4.3F 11.4G 11.5E MIOAD<6> 21.5A PEX RX9 2.3H> 2.4B STEREO 16.3A< 20.4F> FBDD<56> 4.3F 11.4G 11.5E MIOAD<7> PEX\_RX9\* 2.3H> 2.4B SWAPRDY\_A 18.2G<> 20.5F 21.2A FBDD<57> 4.3F 11.4G 11.5E MIOAD<8> 21.5A PEX\_RX10 2.3H> 2.4B VIPHCLK 18.5E> 19.3B< NVIDIA CORPORATION 701 SAN TOMAS EXPRESSWAY ANTA CLARA CA 95050 IISA 600 - 10260 - 0004 - 300 NV\_PN LL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, 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\*\*\* Part Cross-Reference for the entire design \*\*\* C87 C C522 C C611 C C88 C C523 C C612 C BKT1 BRACKET 29 C524 C C613 C90 C\_POL C525 C C614 C C2 C C3 C C4 C C5 C C6 C C91 C C526 C C615 C C527 C C616 C C93 C528 C C617 C94 C\_POL C95 C\_POL C529 C C530 C C618 C619 C C531 C C620 C8 C C9 C C10 C C97 C532 C C621 C98 C C533 C C534 C C622 C C11 C100 C C535 C C624 C12 C C13 C C14 C C536 C C537 C C625 C C101 C C102 C C103 C C538 C C15 ( C104 C C539 C C628 C16 C C17 C C540 C C541 C C629 C C105 C C106 C C18 ( C107 ( C542 C C631 C19 ( C108 C\_POL C543 C C632 C20 C C109 C C544 C C633 C C110 C C545 C C634 C22 C111 C C546 C C635 C547 C C548 C C23 C C112 C C636 C C113 C C25 C C549 C C638 C C114 C C26 C C27 C C28 C C115 C C550 C C639 C C551 C C640 C C116 C C117 C C552 C C641 C C29 ( C118 C C553 C C642 C30 C C554 C C555 C C643 C C644 C C119 C C120 C C32 ( C121 C\_POL C556 C C645 C33 ( C122 C\_P0L C557 C C646 C C647 C C34 C C35 C C123 C C558 C C559 C C648 C C124 C C36 ( C125 C\_POL C560 C649 C37 C C126 C\_POL C561 C C562 C C650 C C127 C POL C39 C C563 C C128 C\_P0L C652 C C129 C C564 C C653 C41 C C565 C C130 C C654 C C131 C C566 C C655 C C43 C132 C\_POL C567 C C656 C44 C C45 C C133 C\_POL C568 C C569 C C657 C134 C POL C658 C C46 C C570 C C659 C C135 C\_POL C47 C136 C\_POL C571 C C660 C48 C C49 C C572 C C573 C C661 C C137 C C138 C\_P0L C50 C139 C\_POL C574 C C663 C51 ( C140 C C575 C C664 C C52 ( C141 C POL C576 C C665 C C53 C C577 C C142 C\_POL C666 C C54 C578 C C667 C55 C C144 C\_POL C145 C\_POL C579 C C580 C C668 C C669 C C57 C581 C C670 C58 ( C147 C\_POL C582 C C671 C59 C C60 C C148 C\_POL C583 C C672 C C584 C C673 C C149 C\_POL C61 C585 C674 C62 C C151 C\_POL C586 C C587 C C675 C C676 C C152 C\_POL C64 C C153 C C588 C C65 C154 C C589 C678 C66 C C501 C C590 C C679 C C67 C C502 C C591 C C680 C C68 C592 C681 C69 C C70 C C504 ( C593 C C594 C C682 C C683 C C505 C C71 C C506 C C595 C C684 C596 C C597 C C72 C C507 C685 C73 C C74 C C686 C C508 C C598 C C687 C C509 C C75 C\_POL C599 C76 C\_POL C77 C C600 C C601 C C689 C C511 C C512 C C78 C C513 C C602 C C691 C C79 C603 C C692 C80 C C515 ( C604 C C605 C C693 C694 C C516 C C606 C C695 C83 C C518 C C607 C C608 C C696 C C697 C C84 C C519 C C85 C C609 C C698 C C520 C C86 C C521 C C610 C C699 C NVIDIA CORPORATION 2701 SAN TOMAS EXPRESSWAY SANTA CLARA. CA 95050. USA 600-10260-0004-300 NV\_PN ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, 'MATERIALS') ARE BEING PROVIDED 'AS IS'. THE MATERIALS MAY CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DISCLAIMS ALL IMPLIED WARRANTIES INCLUDING, WITHOUT LIMITATION, THE WARRANTIES OF DESIGN, OF NONINFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR ARISING FROM A COURSE OF DEALING, TRADE USAGE, TRADE PRACTICE, OR INDUSTRY STANDARDS

'00 C 6	C789 C 10	C878 C 2	C967 C 10	
701 C 6 702 C 6	C790 C 3 C791 C 3	C879 C 2 C880 C 2	C968 C 10 C969 C 10	
03 C 8 04 C 8	C792 C 22 C793 C 2	C881 C 9 C882 C 9	C970 C 20 C971 C 2	
05 C 8 06 C 8	C794 C 10 C795 C 22	C883 C 22 C884 C 22	C972 C 5 C973 C 4 C974 C 20	
07 C 6 08 C 6 09 C 6	C796 C 3 C797 C 10 C798 C 22	C885 C 22 C886 C 22 C887 C 22	C974 C 20 C975 C 16 C976 C 10	
10 C 7	C799 C 3	C888 C 22	C977 C 15	
11 C 8 12 C 8 13 C 6	C800 C 3 C801 C 22 C802 C 2	C889 C 22 C890 C 22 C891 C 22	C978 C 18 C979 C 14 C980 C 10	
13 C 6 14 C 6 15 C 8	C803 C 22 C804 C 22	C891 C 22 C892 C 22 C893 C 22	C980 C 10 C981 C 10 C982 C 2	
16 C 8 17 C 8	C805 C 3 C806 C 10	C894 C 22 C895 C 9	C983 C 10 C984 C 10	
18 C 7 19 C 8	C807 C 2 C808 C 10	C896 C 9 C897 C 9	C985 C 10 C986 C 10	
20 C 27 21 C 8	C809 C 10 C810 C 9	C898 C 2 C899 C 2	C987 C 4 C988 C 10	
22 C 8 23 C 8	C811 C 10 C812 C 22	C900 C 5 C901 C 2	C989 C 16 C990 C 10	
24 C 8 25 C 8	C813 C 22 C814 C 22	C902 C 10 C903 C 2	C991 C 10 C992 C 15	
26 C 8 27 C 7	C815 C 10 C816 C 22	C904 C 22 C905 C 22	C993 C 16 C994 C 20	
28 C 8 29 C 8	C817 C 22 C818 C 22	C906 C 9 C907 C 9	C995 C 15 C996 C 9	
30 C 7 31 C 8	C819 C 10 C820 C 2	C908 C 9 C909 C 22	C997 C 15 C998 C 15	
32 C 8 33 C 8	C821 C 10 C822 C 10	C910 C 22 C911 C 22	C999 C 10 C1000 C 10	
34 C 8 35 C 9	C823 C 22 C824 C 22	C912 C 22 C913 C 10	C1001 C 10 C1002 C 10	
36 C 7 37 C 2 38 C 2	C825 C 22 C826 C 22 C827 C 10	C914 C 10 C915 C 2 C916 C 22	C1003 C 14 C1004 C 10 C1005 C 15	
38 C 2 39 C 7 40 C 8	C827 C 10 C828 C 10 C829 C 10	C916 C 22 C917 C 2 C918 C 2	C1006 C 15 C1006 C 15 C1007 C 10	
41 C 7 42 C 8	C830 C 10 C831 C 10	C919 C 22 C920 C 4	C1007 C 10 C1008 C 14 C1009 C 9	
43 C 2 44 C 8	C832 C 22 C833 C 2	C921 C 22 C922 C 22	C1010 C 9 C1011 C 22	
45 C 8 46 C 27	C834 C 2 C835 C 22	C923 C 22 C924 C 2	C1012 C 15 C1013 C 15	
47 C 8 48 C 2	C836 C 22 C837 C 22	C925 C 22 C926 C 2	C1014 C 15 C1015 C 15	
49 C 7 50 C 8	C838 C 10 C839 C 22	C927 C 22 C928 C 22	C1016 C 9 C1017 C 10	
51 C 8 52 C 6	C840 C 10 C841 C 10	C929 C 13 C930 C 9	C1018 C 10 C1019 C 2	
53 C 3 54 C 2	C842 C 10 C843 C 22	C931 C 9 C932 C 18	C1020 C 2 C1021 C 15	
55 C 3 56 C 2	C844 C 22 C845 C 10	C933 C 10 C934 C 4	C1022 C 15 C1023 C 15	
57 C 3 58 C 3	C846 C 9 C847 C 22	C935 C 4 C936 C 22	C1024 C 15 C1025 C 10	
759 C 3 760 C 2	C848 C 22 C849 C 2	C937 C 20 C938 C 20	C1026 C 9 C1027 C 9	
61 C 6 62 C 2	C850 C 5 C851 C 22	C939 C 4 C940 C 2	C1028 C 9 C1029 C 15	
163 C 3 164 C 2 165 C 2	C852 C 2 C853 C 10 C854 C 10	C941 C 13 C942 C 4 C943 C 22	C1030 C 12 C1031 C 15 C1032 C 10	
166 C 3	C855 C 10 C856 C 22	C944 C 22 C945 C 18	C1032 C 16 C1033 C 15 C1034 C 15	
168 C 10 169 C 10	C857 C 22 C858 C 22	C946 C 22 C947 C 13	C1035 C 15 C1036 C 10	
70 C 10 71 C 3	C859 C 2 C860 C 4	C948 C 2 C949 C 20	C1037 C 10 C1038 C 10	
72 C 10 73 C 10	C861 C 2 C862 C 2	C950 C 18 C951 C 22	C1039 C 11 C1040 C 23	
74 C 2 75 C 22	C863 C 10 C864 C 10	C952 C 18 C953 C 10	C1041 C 15 C1042 C 23	
76 C 9 77 C 9	C865 C 10 C866 C 22	C954 C 10 C955 C 10	C1043 C 13 C1044 C 15	
78 C 9 79 C 2	C867 C 22 C868 C 2	C956 C 18 C957 C 4	C1045 C 12 C1046 C 13	
80 C 3 81 C 3	C869 C 22 C870 C 22	C958 C 10 C959 C 20	C1047 C 12 C1048 C 23	
82 C 10 83 C 9	C871 C 22 C872 C 22	C960 C 4 C961 C 9	C1049 C 15 C1050 C 2	
84 C 10 85 C 10	C873 C 22 C874 C 22	C962 C 22 C963 C 10	C1051 C 2 C1052 C 15	
'86 C 10 '87 C 2	C875 C 2 C876 C 2	C964 C 10 C965 C 4	C1053 C 23 C1054 C 18	
88 C 22	C877 C 9	C966 C 4	C1055 C 20	NVIDIA CORPORATION
		ASSEMBLY N	41 256MB 8Mx32 DDR1 VGA+DVI-I+S-Video-Out PCI-E Desktop - DELL SKU	2701 SAN TOMAS EXPRESSWAY SANTA CLARA, CA 95050, USA
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A	В	. D	E F	G	н
66 C 20	C1145 C 11	CN2 CON_PCI_EXPRESS 2	LB5 L 13		
C 20 C 18	C1146 C 12 C1147 C 11	D1 D_3PIN_AC 14 D2 D_3PIN_AC 14	LB6 L 13 LB7 L 17		
14 15 15	C1148 C 12 C1149 C 12 C1150 C 11	D3	LB8 L 16 LB9 L 16 LB10 L 17		
C 15 C 23	C1151 C 12 C1152 C 11	D6 D_3PIN_AC 14 D7 D_3PIN_AC 15	LB11 L 23 LB12 L 19		
C 16 C 23	C1153 C 12 C1154 C 12	D8 D_3PIN_AC 13 D9 D_3PIN_AC 13	LB13 L 19 LB14 L 23		
5 C 23 7 C 23 3 C 23	C1155 C 12 C1156 C 12 C1157 C 12	D10	LB15 L 2 LB16 L 2 LB501 L 3		
9 C 15 0 C 23	C1158 C 12 C1159 C 11	D13 D_3PIM_AC 16 D14 D_3PIM_AC 16	LB502 L 3 LB503 L 3		
1 C 20 2 C 2	C1160 C 12 C1161 C 12	D15 D_3PIN_AC 16 D16 D_3PIN_AC 16	LB504 L 2 LB505 L 4		
3 C 2 4 C 16 5 C 23	C1162 C 12 C1163 C 12 C1164 C 17	017 0_SCHOTTKY 20 018 0 28 0501 0_SCHOTTKY 26	LB506 L 4 LB507 L 4 LB508 L 15		
76 C 23 77 C 23	C1165 C 12 C1166 C 11	D502 D_SCHOTTKY 25 D503 D_SCHOTTKY 28	LB509 L 13 LB510 L 15		
8 C 20 19 C 14 10 C 12	C1167 C 11 C1168 C 11	D504 D_3PIN_AA 25 D505 D 24	LB511 L 16 LB512 L 20		
1 C 11 2 C 23	C1169 C 12 C1170 C 12 C1171 C 12	D506 D_SCHOTTKY 24 D507 D_37N_AC 25 D508 D 23	LB513 L 20 LB514 L 20 LB515 L 15		
3 C 12 4 C 23	C1172 C 12 C1173 C 17	D509 D_SCHOTTKY 23 D510 D_3PIN_AC 16	LB516 L 18 LB517 L 14		
5 C 12 6 C 11	C1174 C 12 C1175 C 12	D511 D_3PIN_AC 14 D512 D_3FIN_AC 14	LB518 L 15 LB519 L 18		
17 C 12 18 C 12 19 C 11	C1176 C 12 C1177 C 17 C1178 C 12	D513 D_3P1N_AC 14 D514 D_3P1N_AC 13 D515 D_3P1N_AC 13	LB520 L 18 LB521 L 23 LB522 L 17		
0 C 11 1 C 5	C1179 C 11 C1180 C 19	D516 D_3PIN_AC 13 D517 D_3PIN_AC 16	LB523 L 16 LB524 L 16		
92 C 25 93 C 12	C1181 C 11 C1182 C 17	D518 D_3PIN_AC 16 D519 D_3PIN_AC 16	LB525 L 16 MEC1 MEC_SCREW 29		
14 C 23 15 C 12 16 C 20	C1183 C 17 C1184 C 11 C1185 C 11	D520 D_3PN_AC 16 F1 F_POLYSW 16 F2 F_POLYSW 23	MEC2 MEC_SCREM 29 MEC3 MEC_SCREW 29 MEC4 MEC_SCREW 29		
07 C 12 08 C 12	C1186 C 17 C1187 C 12	J1 CON_DSUB15HD 14 J2 CON_DSUB15HD 13	MECS MEC_SCREW 29 MEC6 HEATSINK 29		
99 C 11 00 C 2	C1188 C 11 C1189 C 12	J3 CON_MINIDIN_10 16 J4 CON_DVI_I 15	MEC7 HEATSINK 29 Q1 Q_NPN 19		
01 C 2 02 C 12	C1190 C 12 C1191 C 17	J5 CON_DVI_I 15 J6 HDR_1X2 20	Q2 Q_NPN 19 Q3 Q_FET_N_ENH 20		
03 C 23 04 C 11 05 C 12	C1192 C 11 C1193 C 12 C1194 C 12	J7 + HDR_1X4 16 J8 + HDR_1X12 16 J9 + HDR_2X3 25	Q4 Q_FET_N_ENH 20 Q5 Q_FET_N_ENH 20 Q6 Q_FET_N_ENH 23		
06 C 12 07 C 12	C1195 C 12 C1196 C 13	J10 HDR_1X4 25 J501 HDR_2X4 2	Q501 Q_FET_N_ENH 26 Q502 Q_FET_N_ENH 26		
08 C 23 09 C 12	C1197 C 14 C1198 C 12	L1 L 14 L2 L 14	Q503 Q_FET_N_ENH 26 Q504 Q_FET_N_ENH 26		
10 C 12 11 C 12 12 C 12	C1199 C 17 C1200 C 13 C1201 C 16	L3 L 13 L4 L 13 L5 L 16	Q505 Q_FET_N_ENH 28 Q506 Q_FET_N_ENH 25 Q507 Q_FET_N_ENH 26		
13 C 23 14 C 23	C1202 C 16 C1203 C 16	L6 L 16 L7 L 16	Q508 Q_FET_N_ENH 26 Q509 Q_FET_N_ENH 25		
15 C 12 16 C 11	C1204 C 16 C1205 C 14	L8 L 16 L9 L 16	Q510 Q_FET_N_ENH 25 Q511 Q_FET_P_ENH 25		
17 C 12 18 C 12 19 C 12	C1206 C 14 C1207 C 14 C1208 C 13	L10 L 20 L11 L 2 L12 L 24	O512 Q_FET_N_ENH 24   Q513 Q_FET_N_ENH 24   O514 Q_NPN		
20 C 11 21 C 12	C1209 C 13 C1210 C 13	L13 L 25 L14 L 26	Q515 Q_FET_N_ENH 23 Q516 Q_FET_N_ENH 23		
22 C 12 23 C 23	C1211 C 16 C1212 C 16	L15 L 28 L16 L 25	Q517 Q_FET_N_ENH 19 Q518 Q_FET_N_ENH 19		
24 C 12 25 C 12 26 C 12	C1213 C 16 C1214 C 16 C1215 C 14	L17 L 28 L18 L 25 L501 L 16	Q519 Q_FET_N_ENH 19   Q520 Q_PNP		
27 C 12 28 C 12	C1216 C 14 C1217 C 14	L502 L 16 L503 L 16	R2 R 19 R3 R 16		
9 C 12 0 C 12	C1218 C 13 C1219 C 13	L504 L 14 L505 L 14	R4 R 15 R5 R 15		
81 C 11 82 C 11 83 C 12	C1220 C 13 C1221 C 16 C1222 C 16	L506 L 14 L507 L 13 L508 L 13	R6 R 16 R7 R 15 R8 R 15		
34 C 11 35 C 12	C1222 C 16 C1223 C 16 C1224 C 15	L509 L 13 L509 L 13 L510 L 14	R9 R 19 R10 R 19		
86 C 12 87 C 12	C1225 C 15 C1226 C 14	L511 L 14 L512 L 14	R11 R 16 R12 R 19		
38 C 23 39 C 11 40 C 11	C1227 C 14 C1228 C 14	L513 L 13 L514 L 13	R13 R 19 R14 R 14 R15 R 14		
40 C 11 41 C 11 42 C 9	C1229 C 13 C1230 C 13 C1231 C 13	L515 L 13 LB1 L 15 LB2 L 15	R15 R 14 R16 R 13 R17 R 13		
43 C 12 44 C 12	C1232 C 13 CN1 CON_MIO_26 18	LB3 L 14 LB4 L 14	R18 R 16 R19 R 16		
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0 R 14 1 R 14 2 R 13 3 R 13	R503 R 26				
1 R 14 2 R 13 3 R 13	R503 R 26	1 1			
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R 16	R506 R 28 R507 R 25	R595 R 3 R596 R 3	R684 R 21 R685 R 23		
R 16 R 16	R508 R 25 R509 R 26	R597 R 3 R598 R 3	R686 R 21 R687 R 21		
7 R 16 B R 16	R510 R 26 R511 R 28	R599 R 3 R600 R 3	R688 R 23 R689 R 21		
9 R 16 0 R 16	R512 R 28 R513 R 26	R601 R 3 R602 R 3	R690 R 19 R691 R 11		
1 R 16 2 R 17	R514 R 26 R515 R 26	R603 R 9 R604 R 9	R692 R 21 R693 R 11		
3 R 17 4 R 16	R516 R 26 R517 R 26	R605 R 9 R606 R 9	R694 R 21 R695 R 11		
5 R 16 6 R 17	R518 R 25 R519 R 25	R607 R 9 R608 R 2	R696 R 19 R697 R 19		
7 R 17 8 R 20	R520 R 25 R521 R 25	R609 R 2 R610 R 9	R698 R 11 R699 R 11		
9 R 21 0 R 21	R522 R 25 R523 R 25	R611 R 9	R700 R 17 R701 R 11		
1 R 21 2 R 21	R524 R 25 R525 R 25	R613 R 4	R702 R 19 R703 R 11		
3 R 20	R526 R 25	R615 R 16	R704 R 11		
4 R 20 5 R 21	R527 R 28 R528 R 25	R617 R 9	R705 R 19 R706 R 11		
6 R 20 7 R 21	R529 R 26 R530 R 25	R618 R 9 R619 R 16	R707 R 20 R708 R 11		
8 R 20 9 R 21	R531 R 26 R532 R 24	R620 R 13 R621 R 4	R709 R 11 R710 R 11		
0 R 21 1 R 21	R533 R 25 R534 R 25	R622 R 4 R623 R 13	R711 R 11 R712 R 17		
2 R 20 3 R 2	R535 R 25 R536 R 25	R624 R 14 R625 R 2	R713 R 11 R714 R 11		
4 R 2 5 R 20	R537 R 25 R538 R 24	R626 R 15 R627 R 15	R715 R 17 R716 R 11		
6 R 20 7 R 20	R539 R 25 R540 R 25	R628 R 14 R629 R 9	R717 R 16 R718 R 16		
8 R 2 9 R 2	R541 R 24 R542 R 24	R630 R 19 R631 R 15	R719 R 16 R720 R 16		
0 R 21 1 R 21	R543 R 24 R544 R 24	R632 R 9 R633 R 19	R721 R 16 R722 R 16		
2 R 2 3 R 20	R545 R 26 R546 R 26	R634 R 15 R635 R 15	R723 R 16 R724 R 16		
4 R 25 5 R 21	R547 R 5 R548 R 5	R636 R 15 R637 R 9	R725 R 16 R726 R 14		
7 R 21	R549 R 24 R550 R 24	R638 R 15 R639 R 18	R727 R 14 R728 R 13		
7 K 21 8 R 20 9 R 15	R550 R 24 R551 R 5 R552 R 5	R639 K 18 R640 R 9 R641 R 15	R729 R 13 R730 R 14		
0 R 15	R553 R 27	R642 R 15	R731 R 14		
1 R 15 2 R 15	R554 R 27 R555 R 27	R643 R 15 R644 R 9	R732 R 14 R733 R 13		
3 R 18 4 R 20	R556 R 5 R557 R 24	R645 R 15 R646 R 19	R734 R 13 R735 R 13		
5 R 18 6 R 18	R558 R 5 R559 R 5	R647 R 19 R648 R 15	R736 R 14 R737 R 14		
7 R 18 8 R 21	R560 R 24 R561 R 5	R649 R 15 R650 R 21	R738 R 14 R739 R 13		
9 R 20 0 R 18	R562 R 5 R563 R 5	R651 R 18 R652 R 18	R740 R 13 R741 R 13		
1 R 15 2 R 15	R564 R 5 R565 R 5	R653 R 15 R654 R 20	R742 R 16 R743 R 14		
3 R 15 4 R 15	R566 R 5 R567 R 5	R655 R 15 R656 R 15	R744 R 14 R745 R 13		
5 R 15 6 R 15	R568 R 5 R569 R 5	R657 R 15 R658 R 15	R746 R 13 RP1 R_PAK 16		
7 R 15 8 R 15	R570 R 7 R571 R 7	R659 R 23 R660 R 23	RP501 R_PAK 5 RP502 R_PAK 5		
9 R 20 0 R 20	R572 R 25 R573 R 7	R661 R 23	RP503 R_PAK 5 RP504 R_PAK 5		
2 R 18	R574 R 7	R663 R 23	RP505 R_PAK 5 RP506 R_PAK 7		
4 R 21	R576 R 7 R577 R 7	R665 R 23	RP507 R_PAK 5 RP508 R_PAK 5		
4 K 21 5 R 19 6 R 19	R577 R 7 R578 R 7 R579 R 7	R666 R 23 R668 R 23	RPSOB R_PAK 5 RPSOB R_PAK 5 RPSID R_PAK 5		
7 R 19	R580 R 7	R669 R 2	RP511 R_PAK 7		
9 R 19	R581 R 7 R582 R 7	R670 R 20 R671 R 20	RP512 R_PAK 7 RP513 R_PAK 7		
00 R 27 01 R 28	R583 R 7	R672 R 21 R673 R 23	RP514 R_PAK 5 RP515 R_PAK 5		
02 R 28 03 R 26	R585 R 7 R586 R 27	R674 R 23	RP516 R_PAK 5 RP517 R_PAK 5		
04 R 26 05 R 26	R587 R 7 R588 R 27	R676 R 20 R677 R 23	RP518 R_PAK 7 RP519 R_PAK 5		
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