35P172- NV35 Short Form Production Board

 $35P172_A00 - NV35 Flipchip BGA, 4 x 64MB DDR1 (16 x 4Mx32 = 256MB)$ External TMDS (SINGLE link), Internal TVout or External HDTVout (7108), TV Capture (7114 or 7108)

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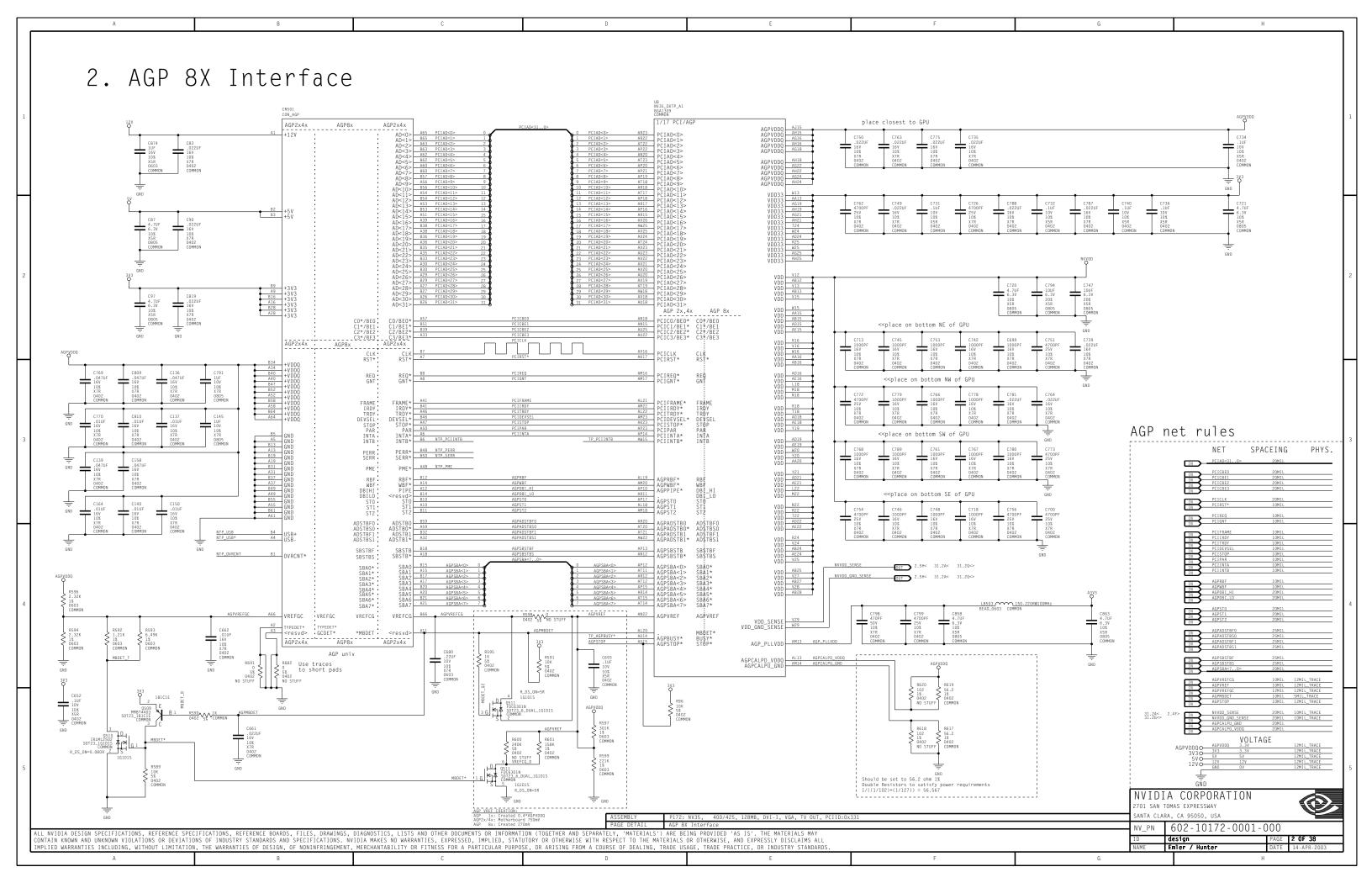
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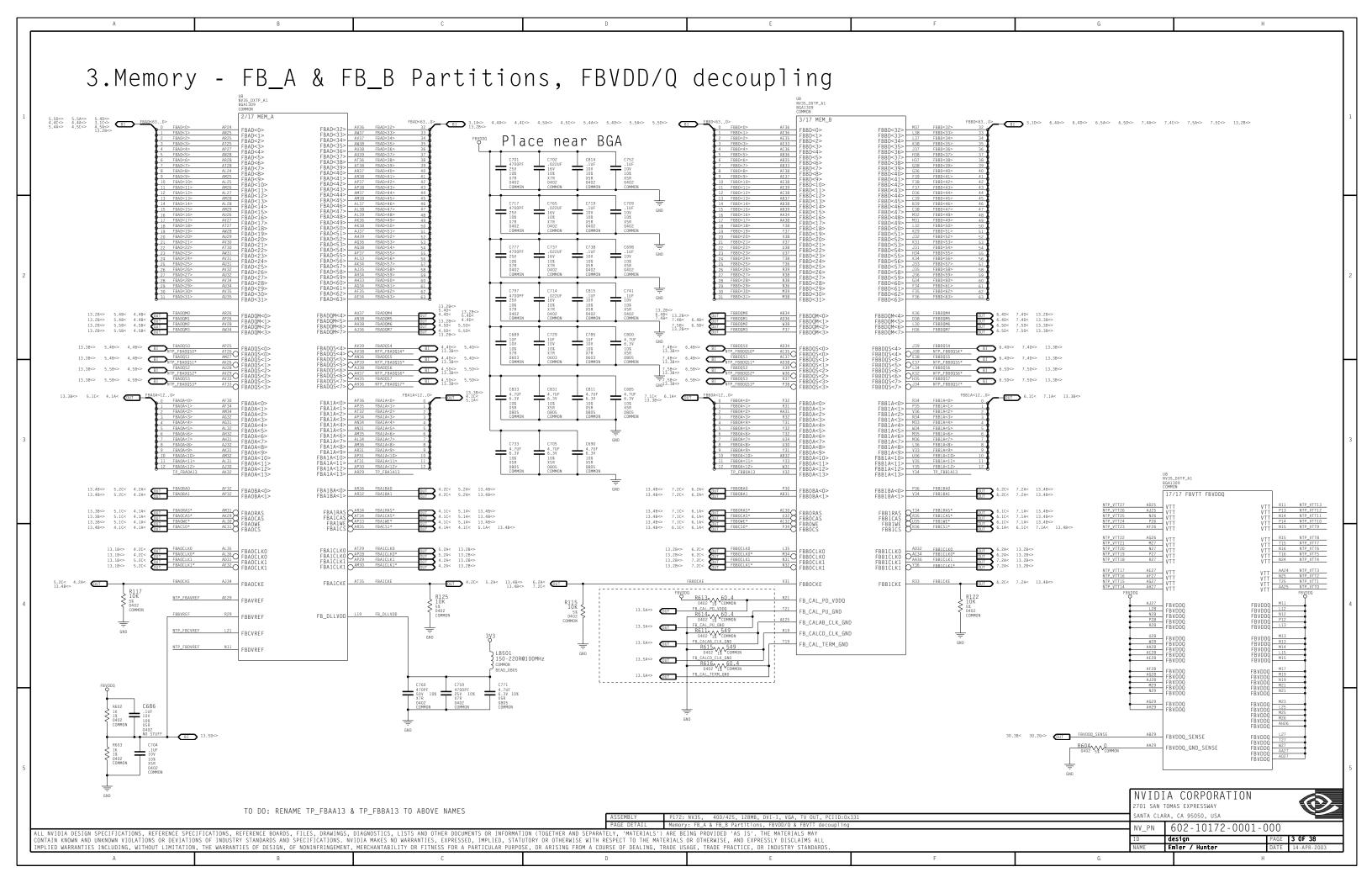
NVIDIA CORPORATION

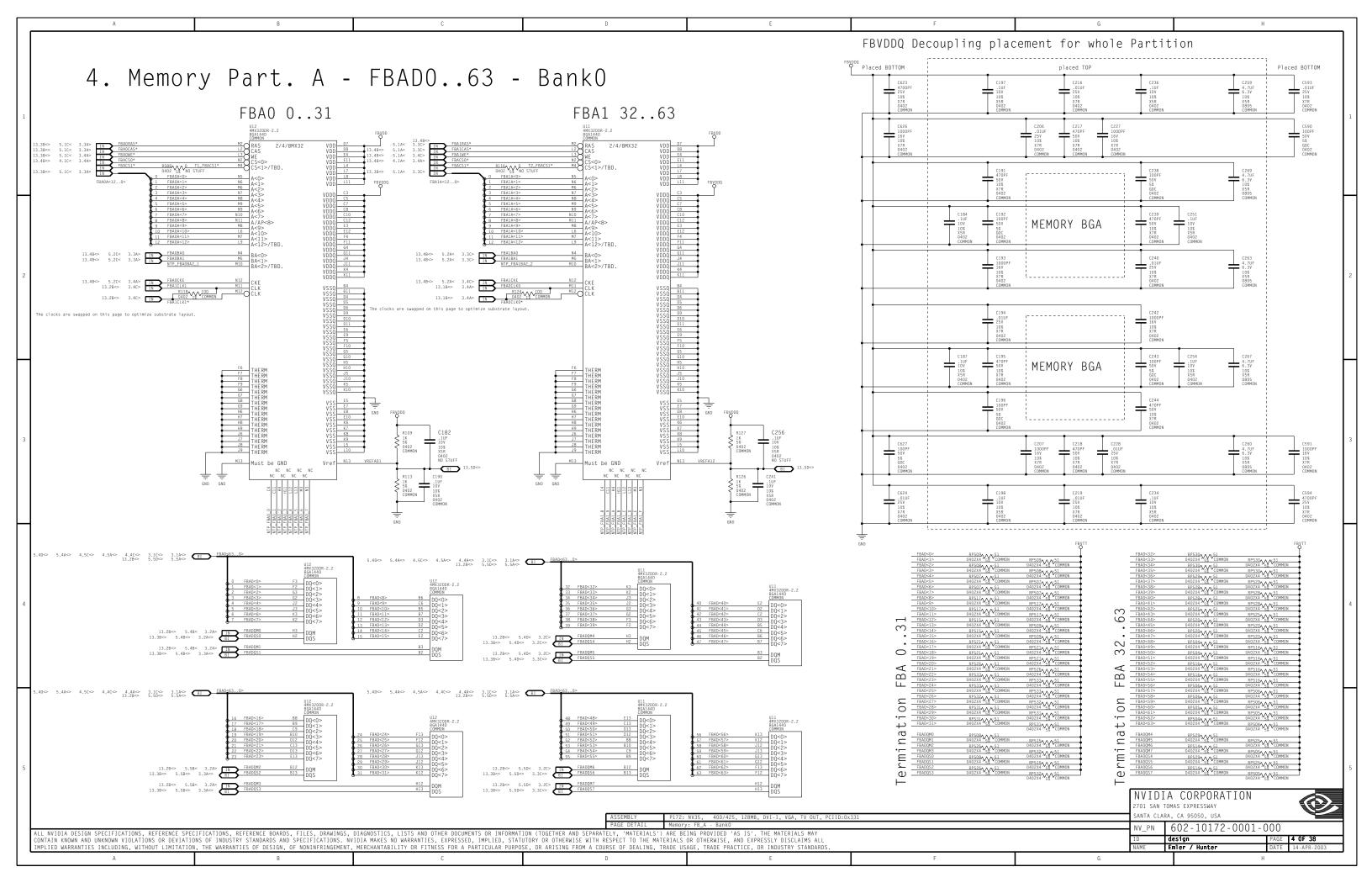
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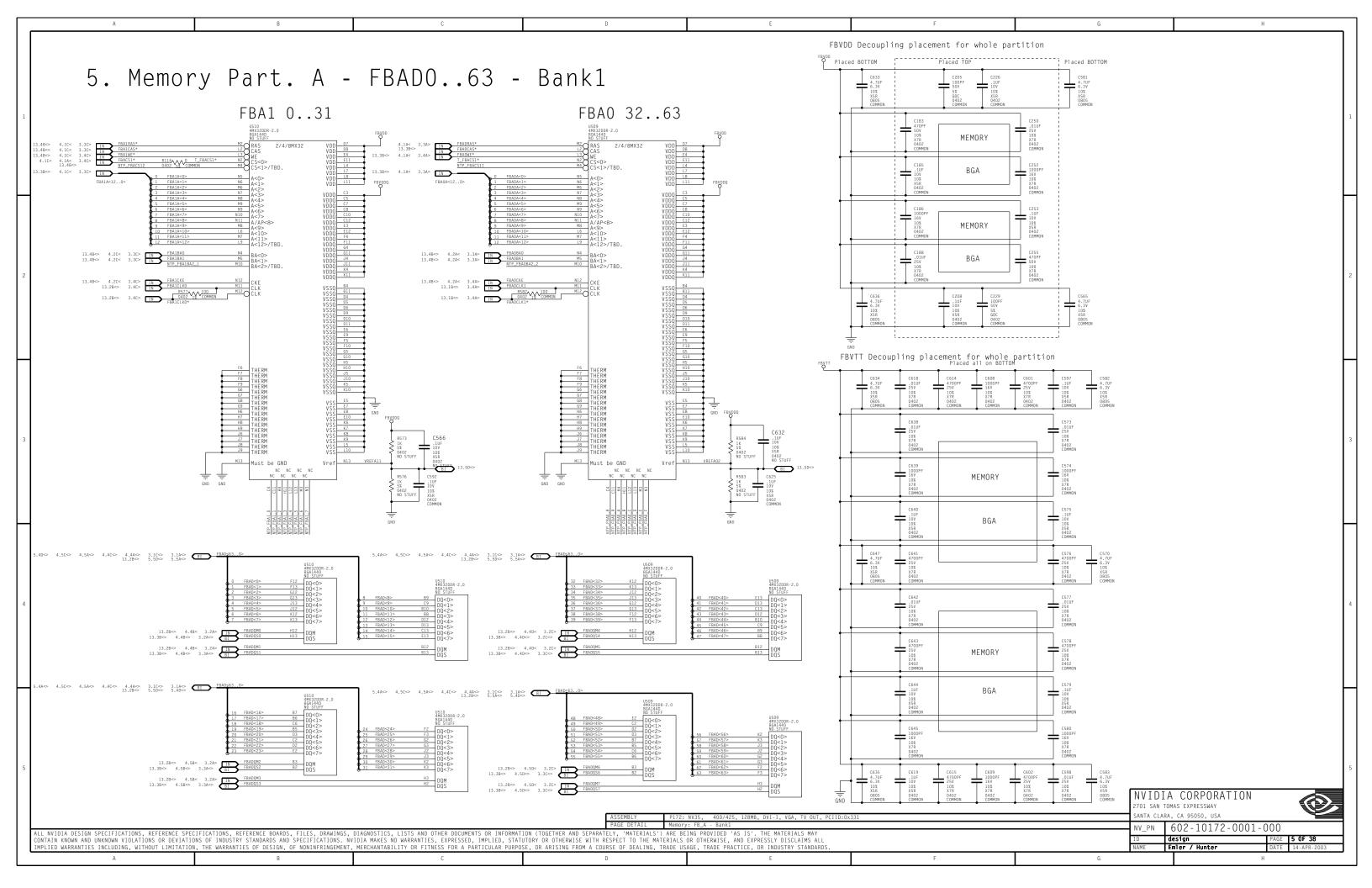
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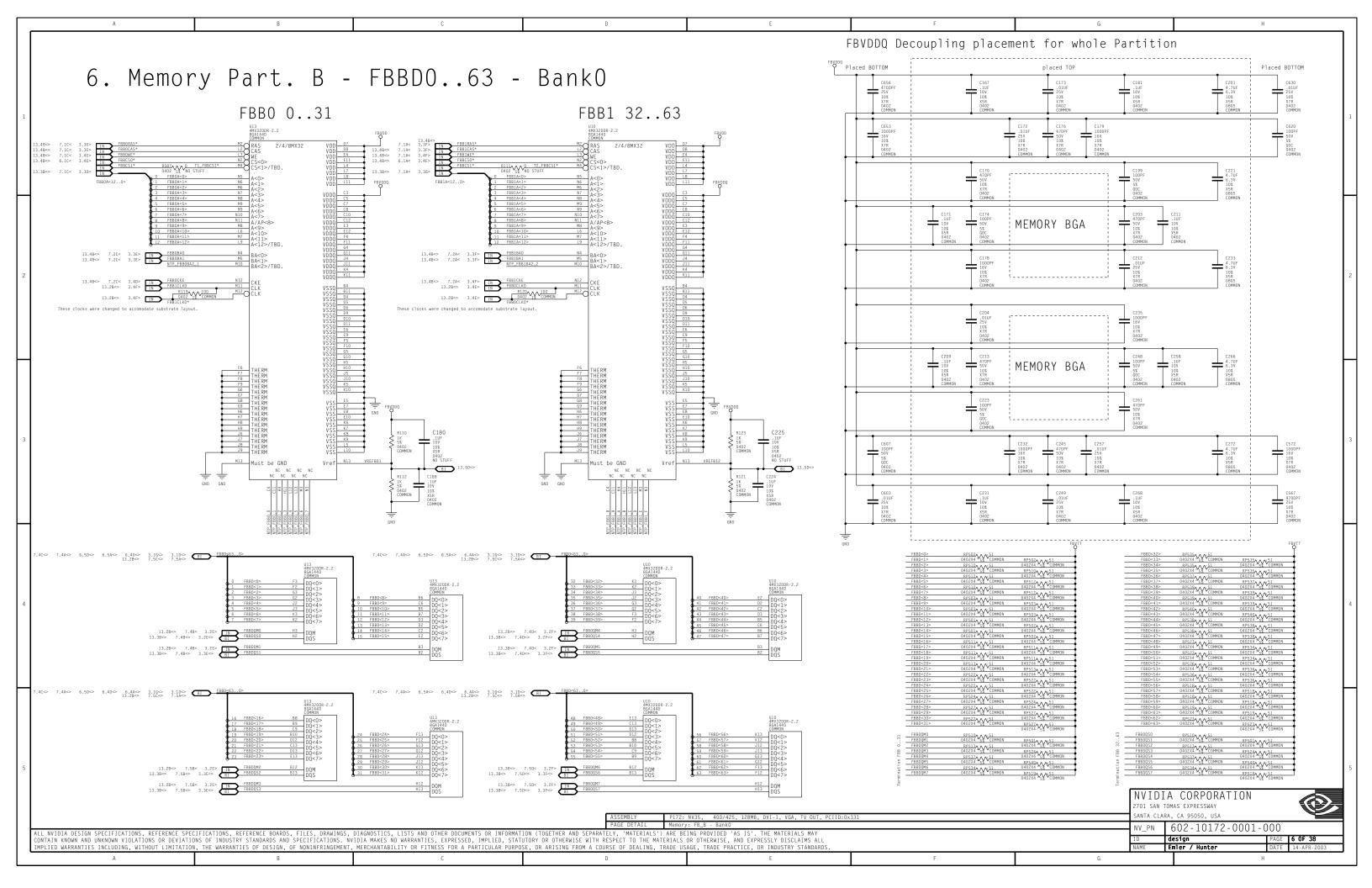
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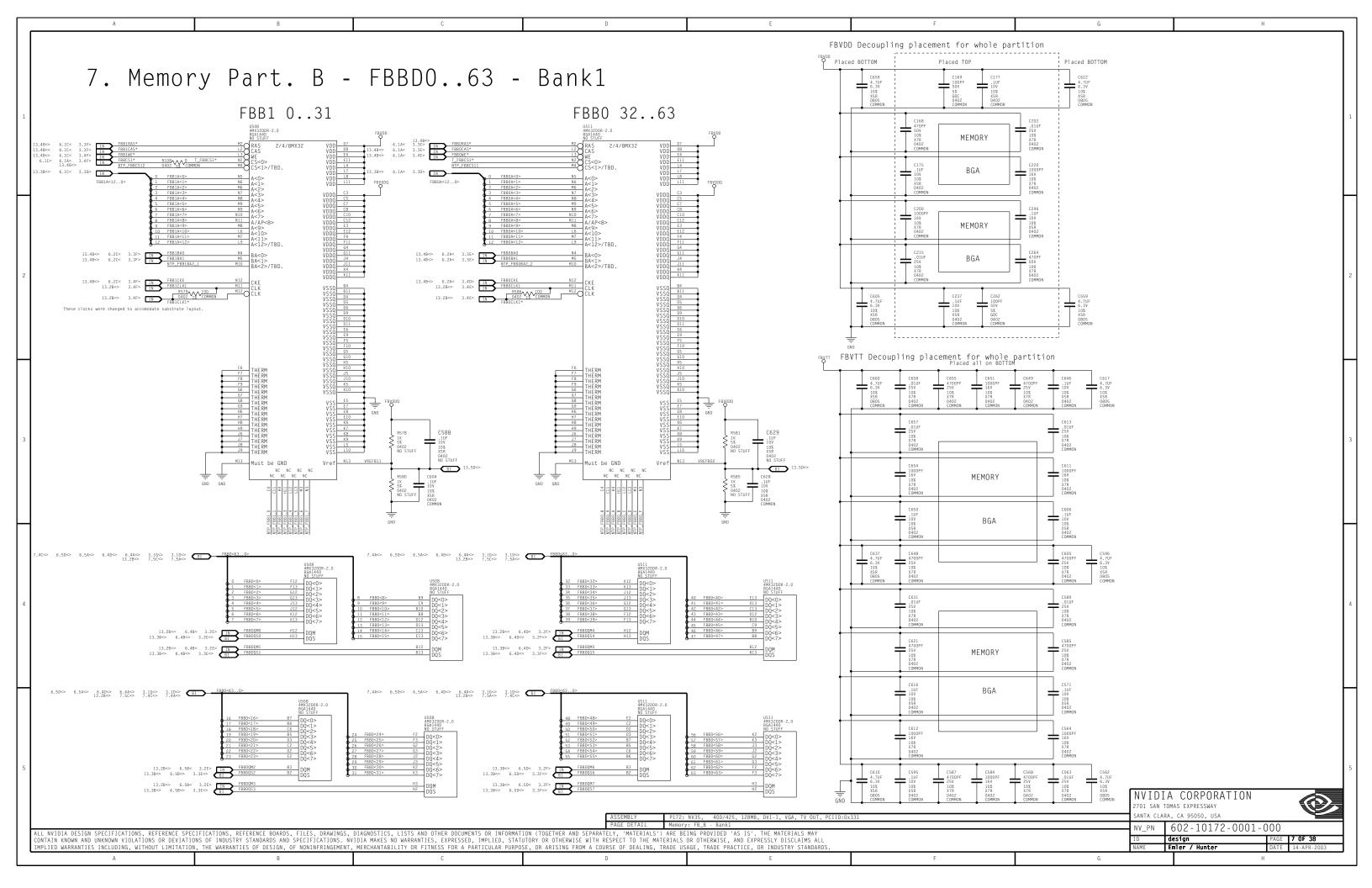


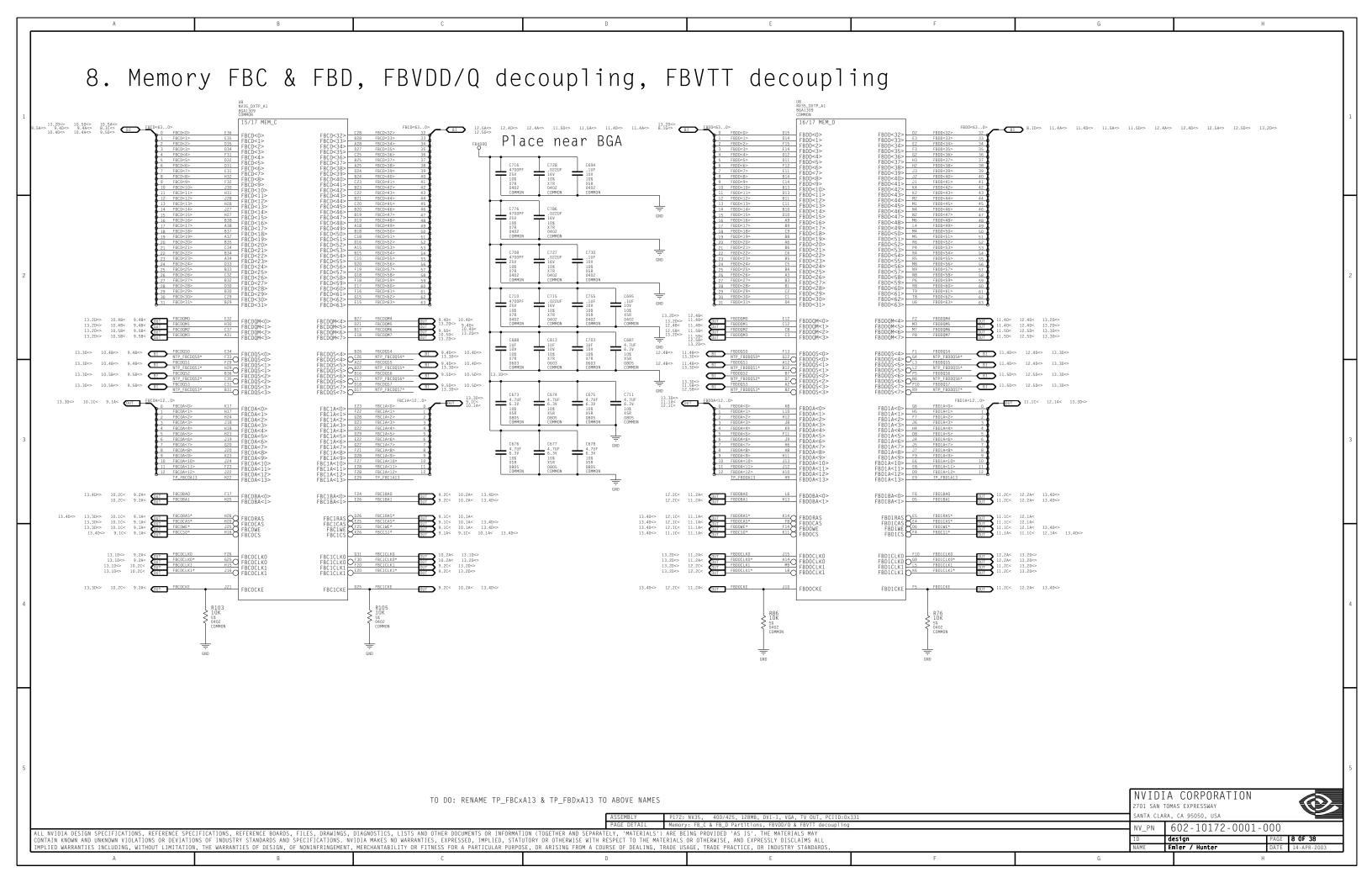


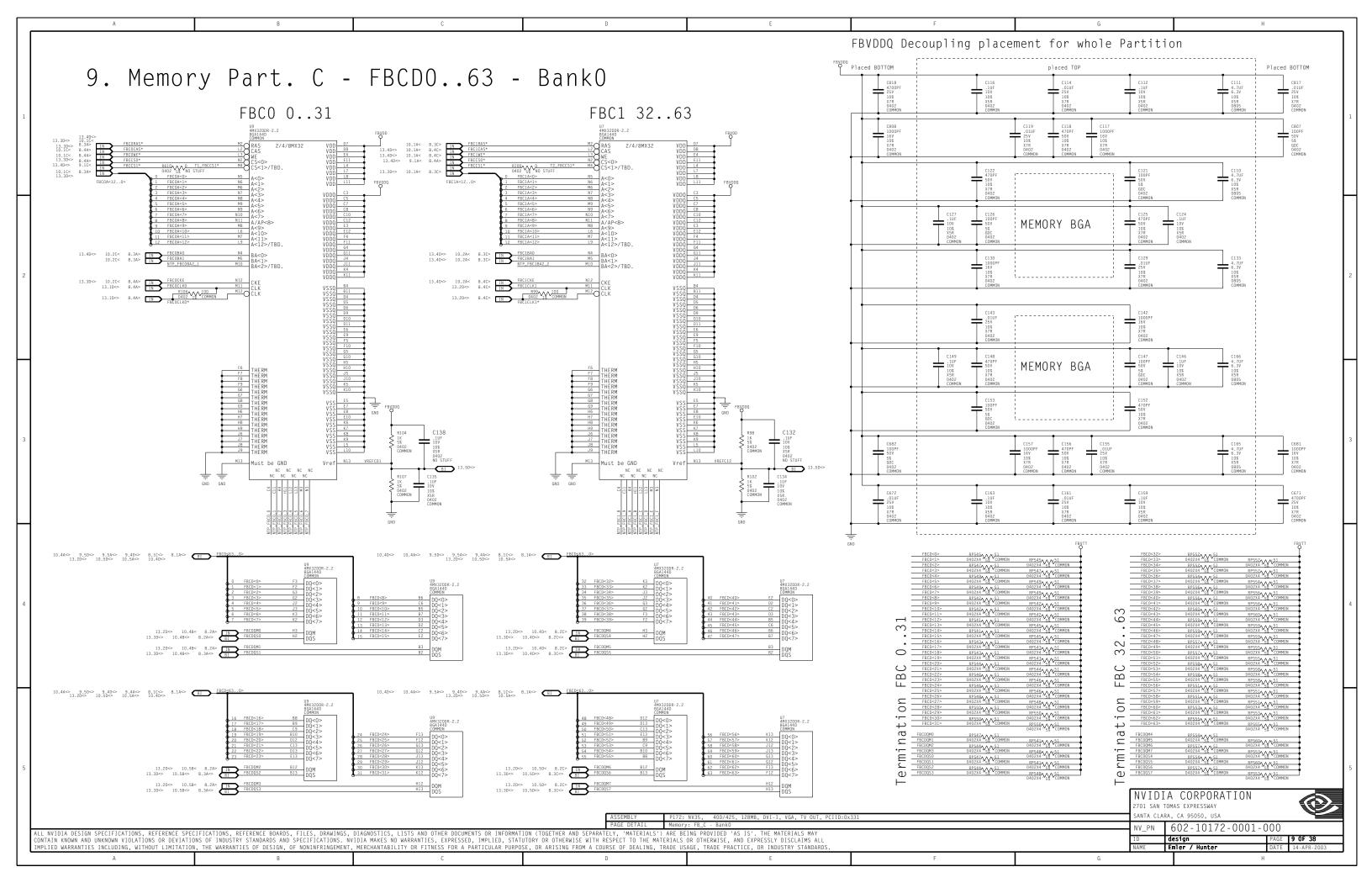


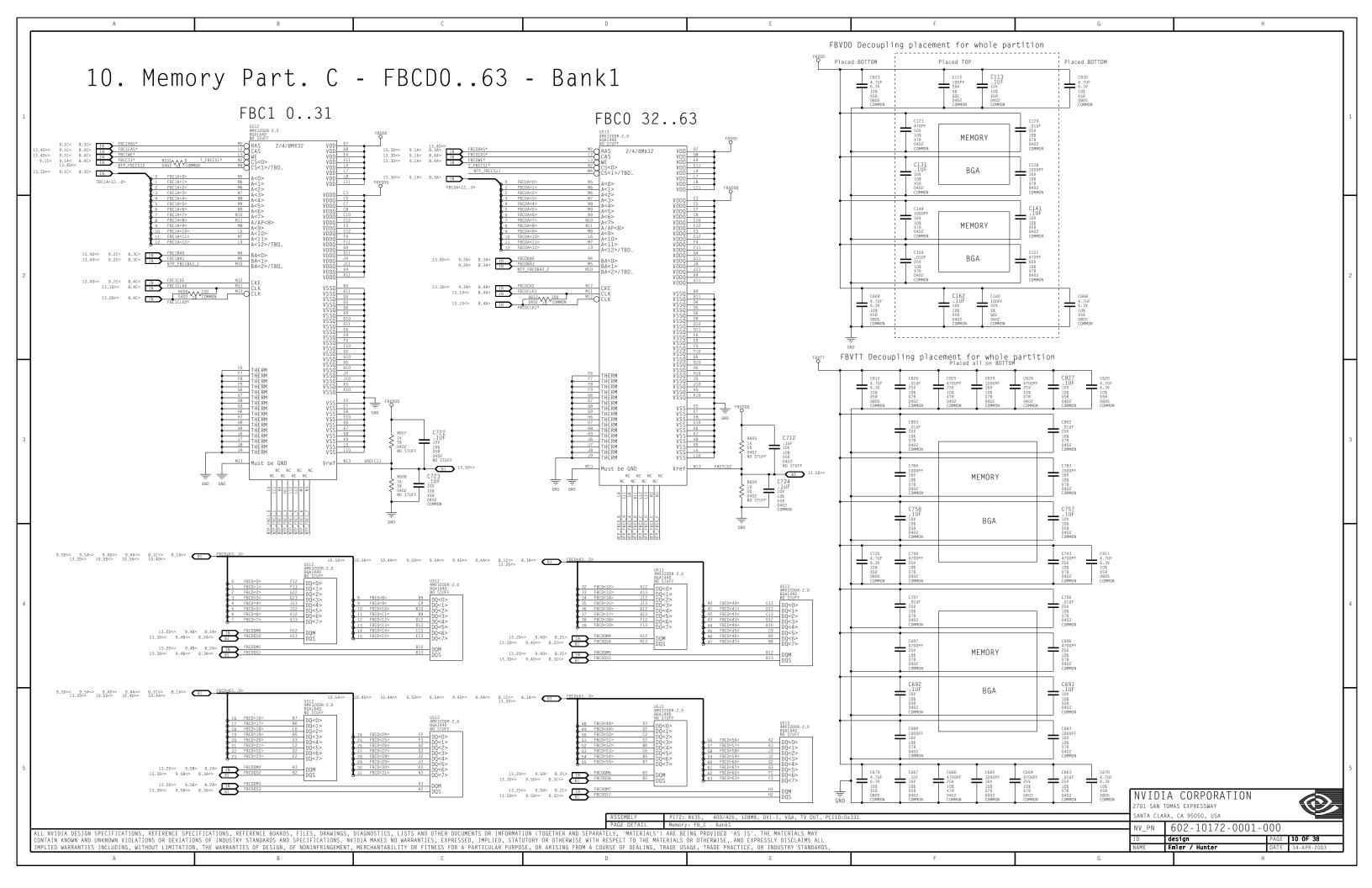


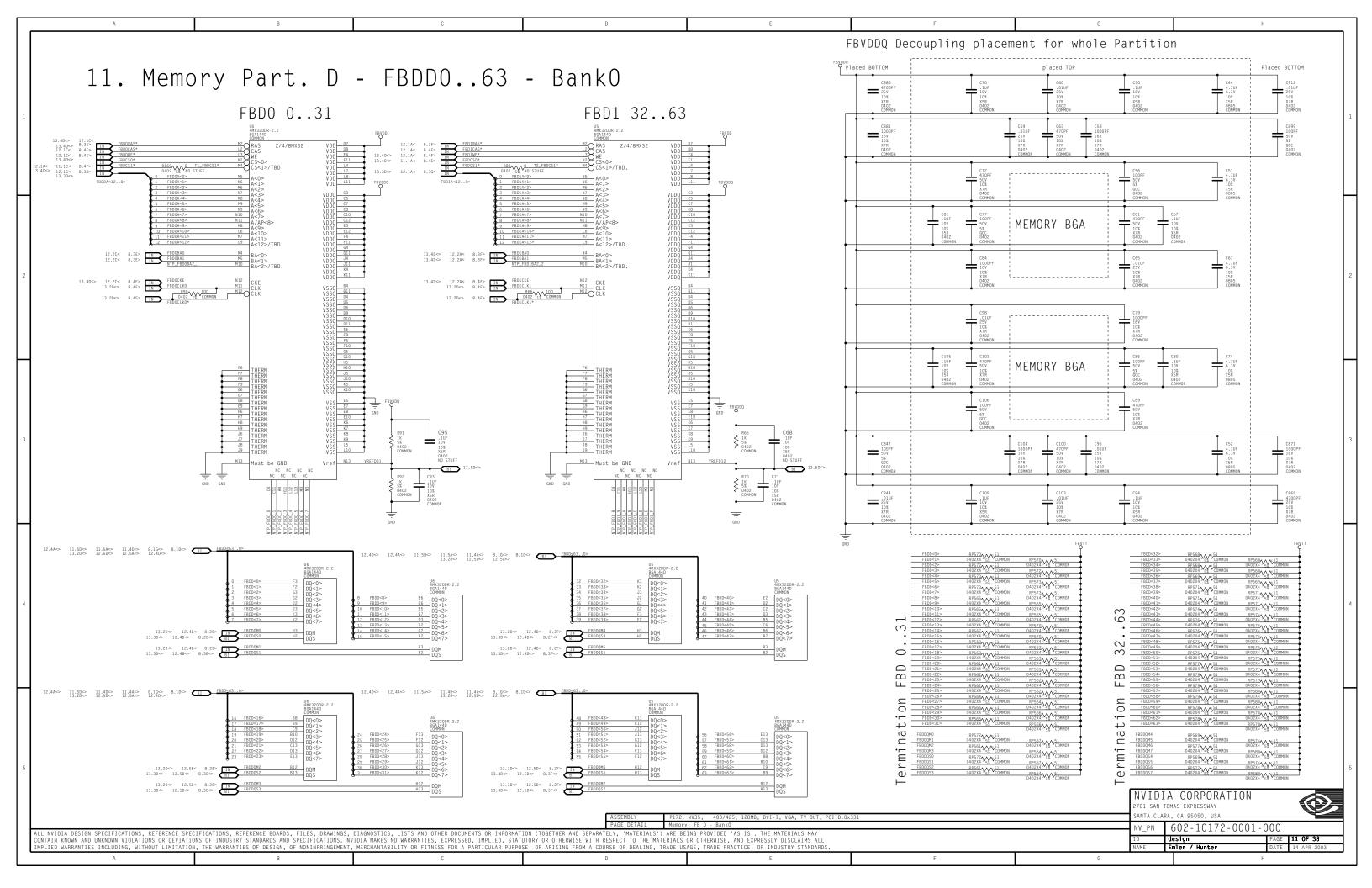


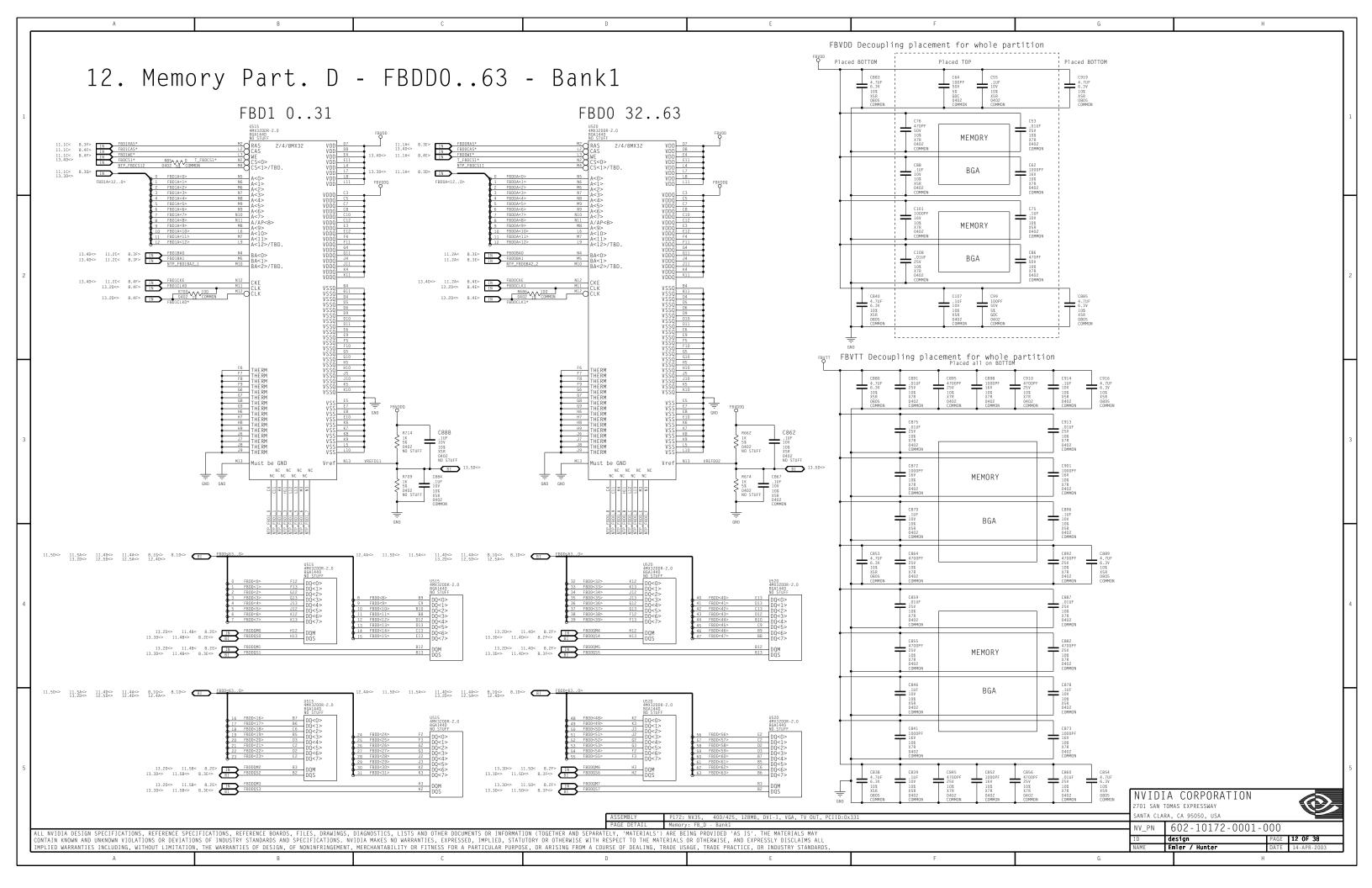




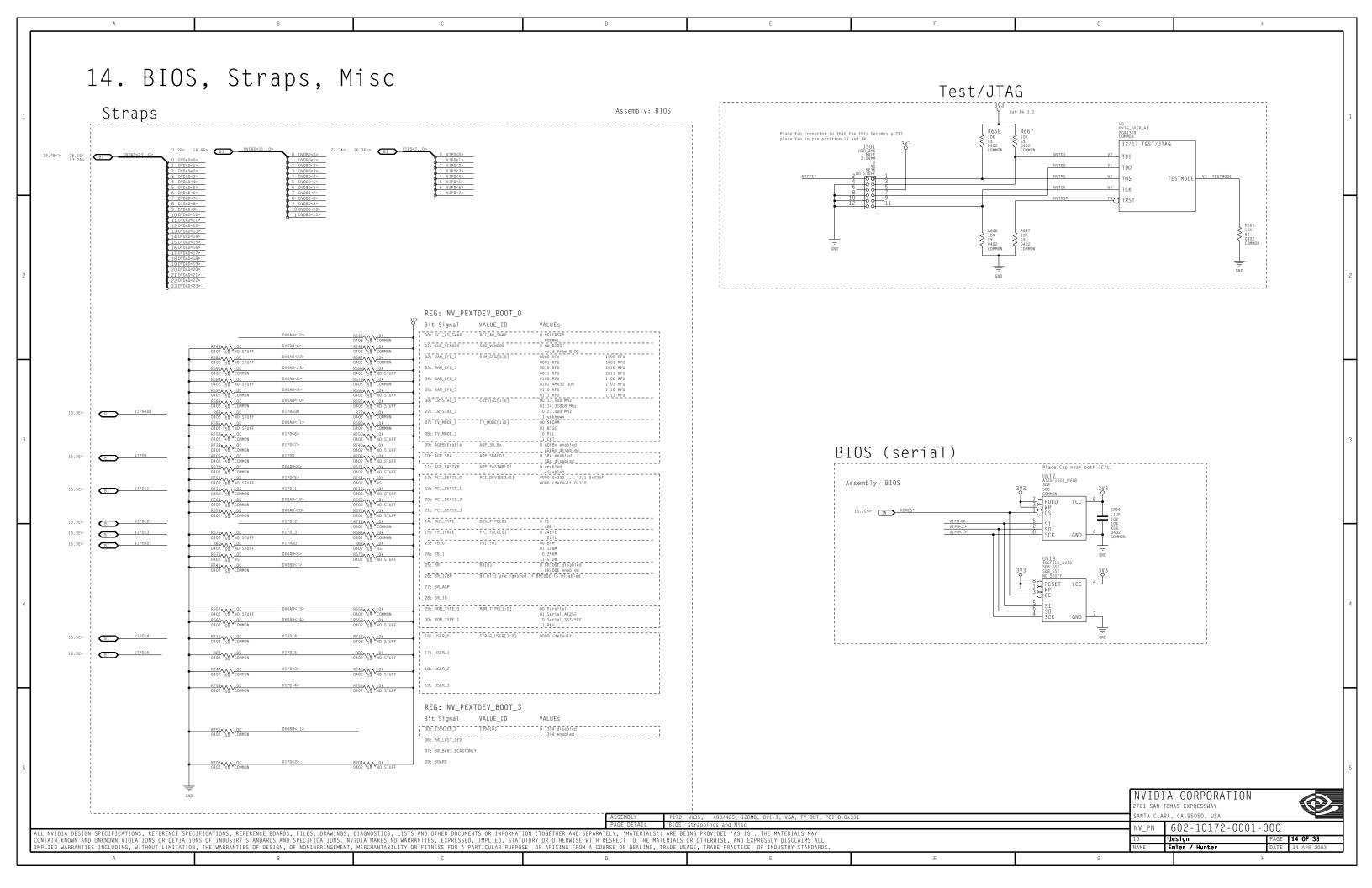


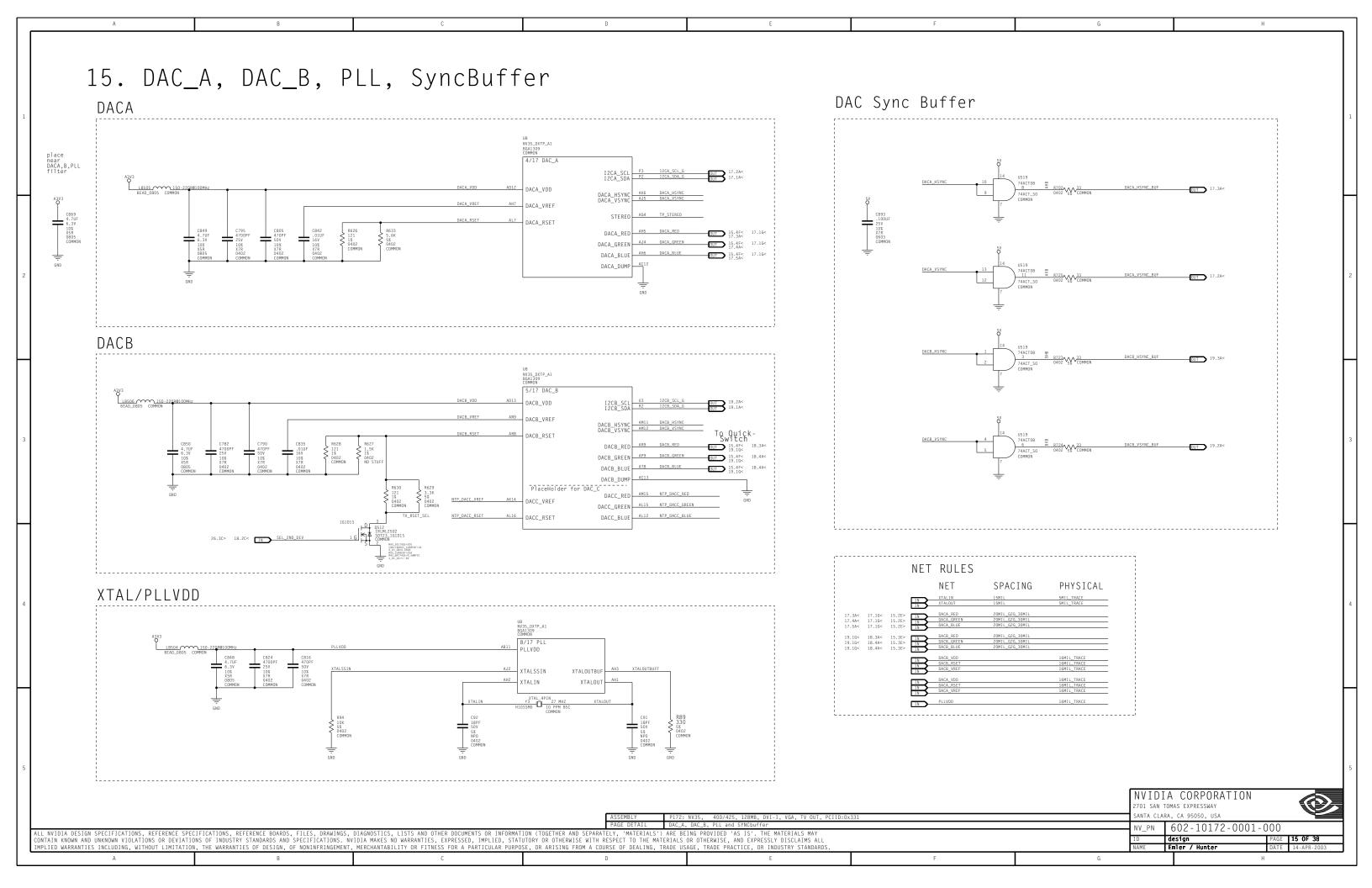


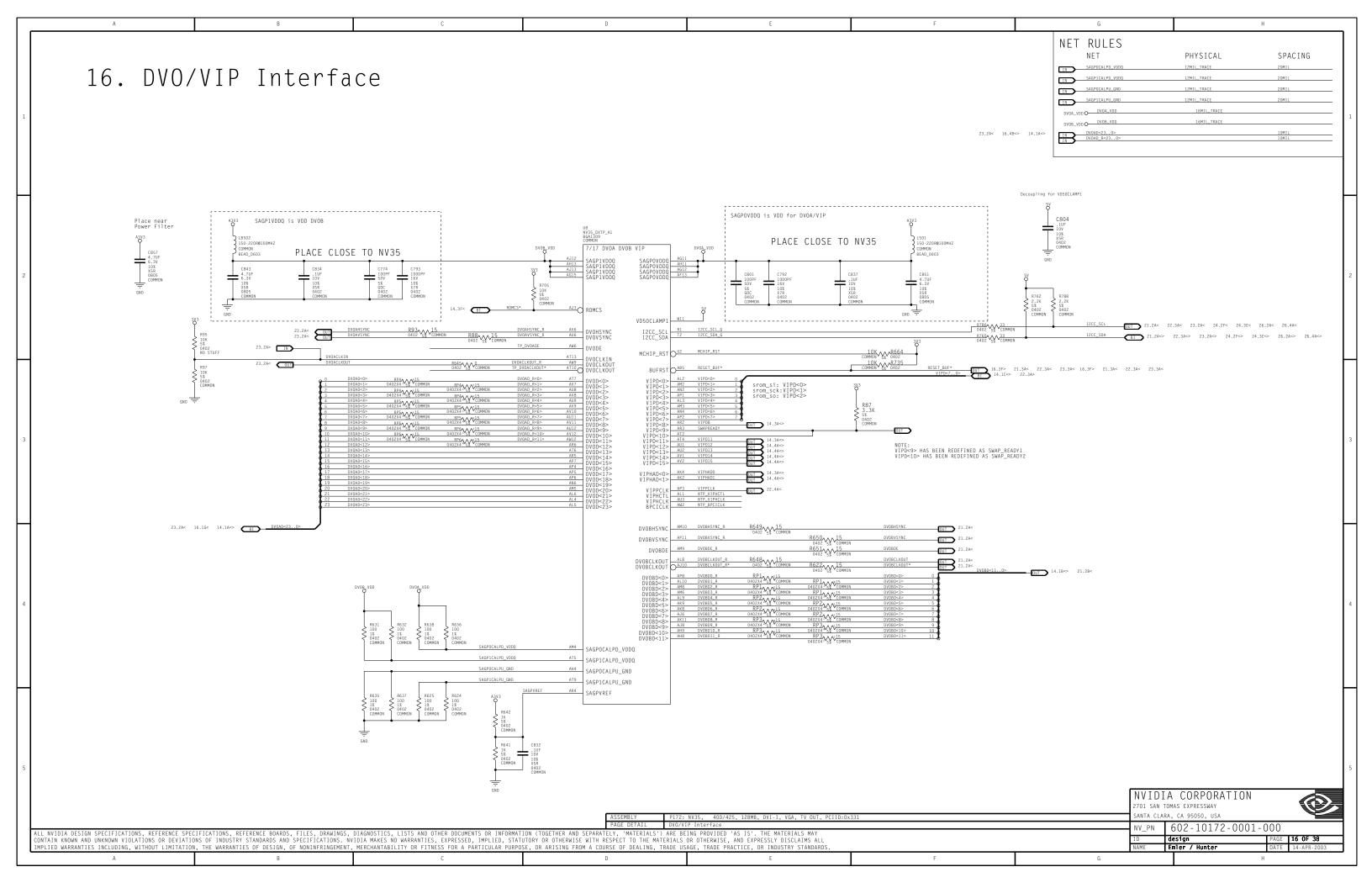


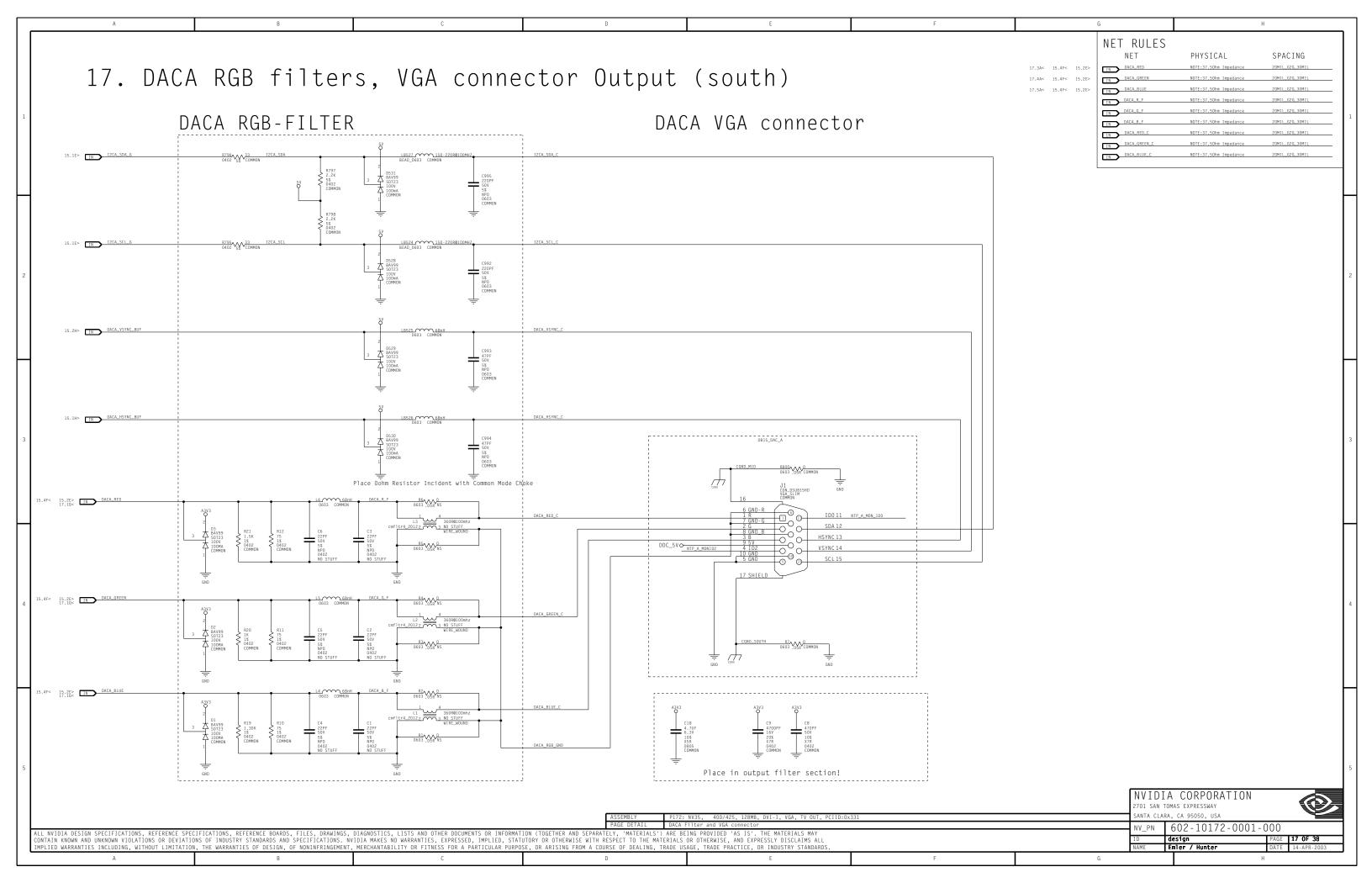


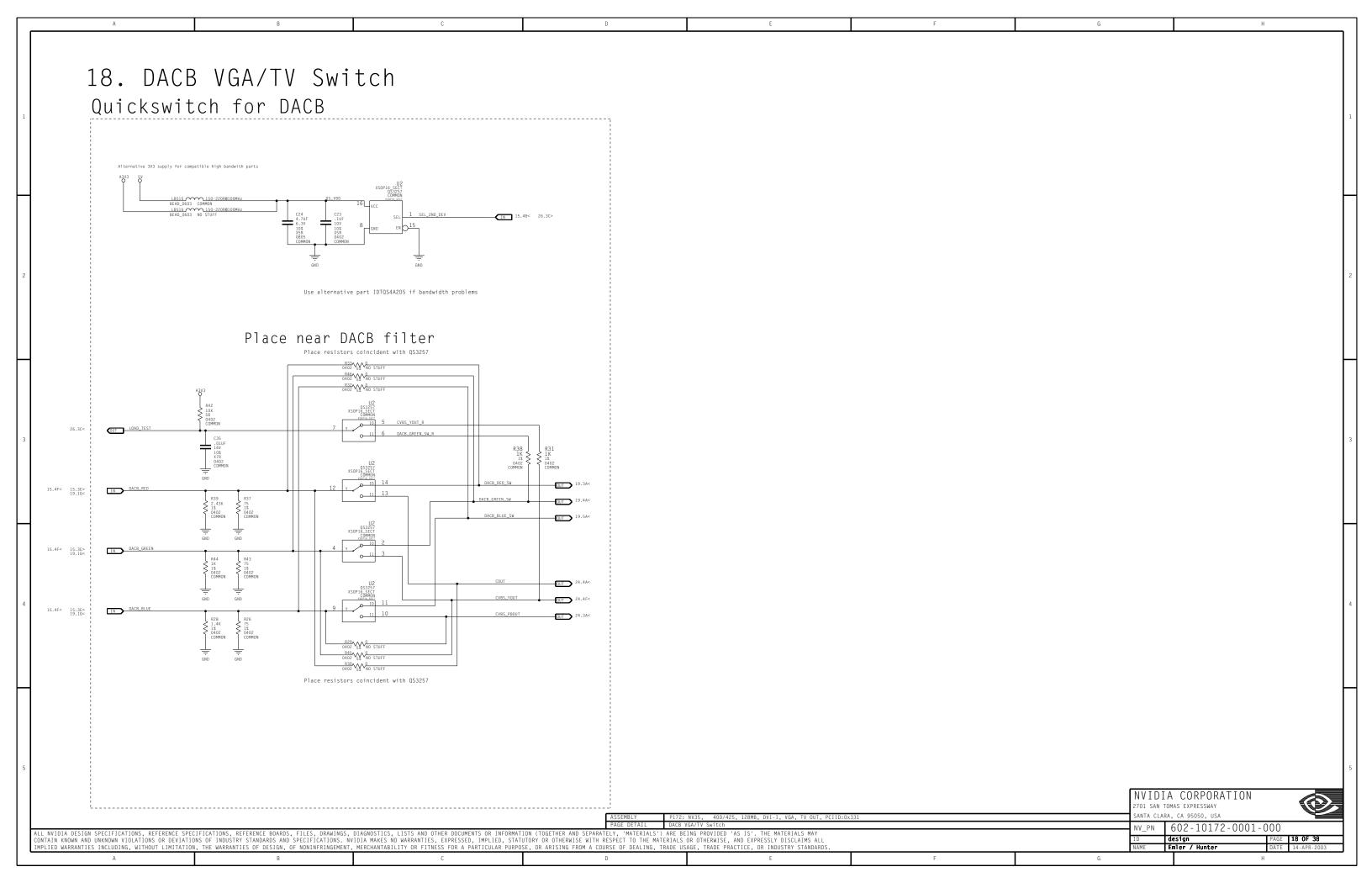


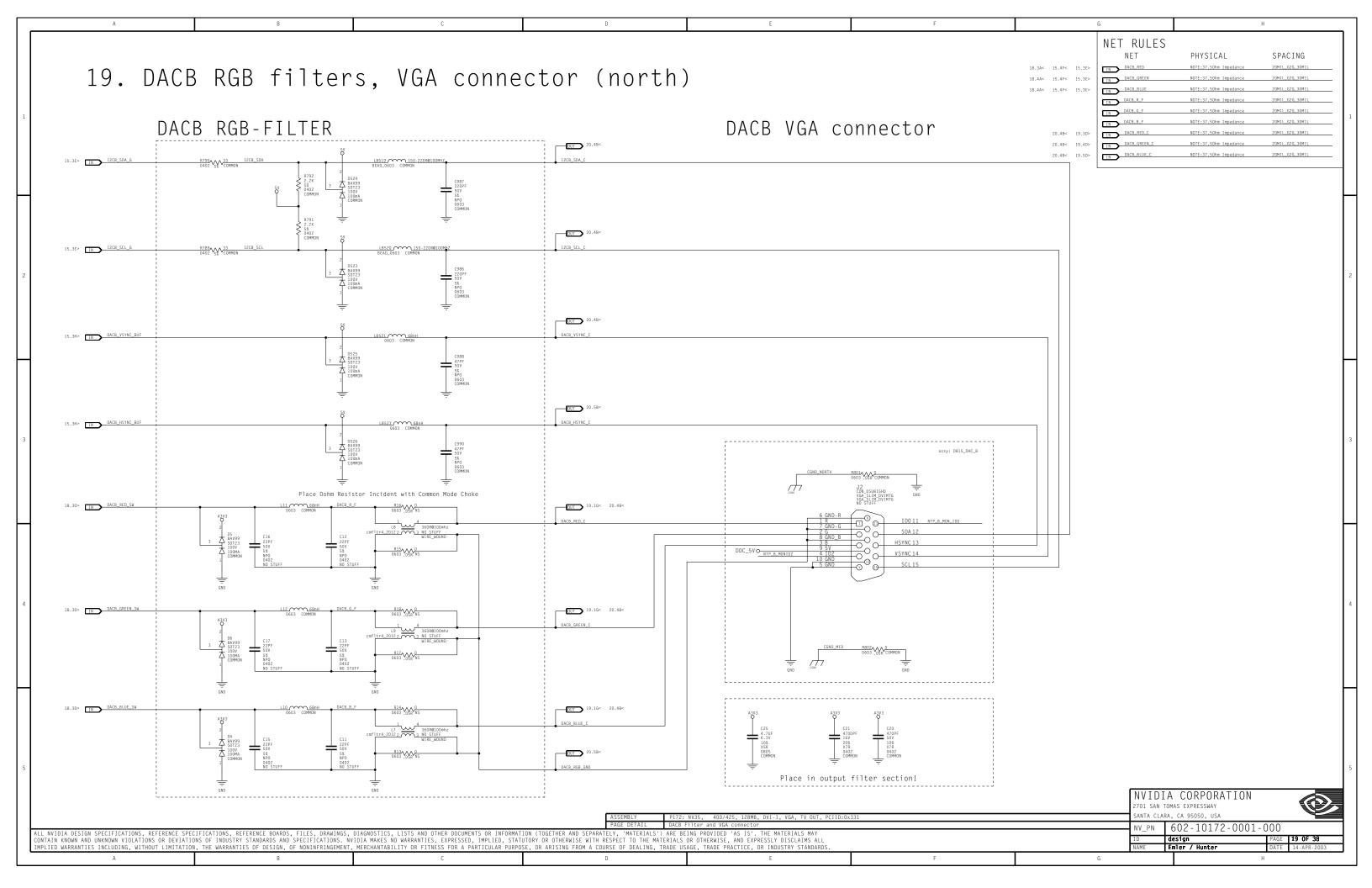


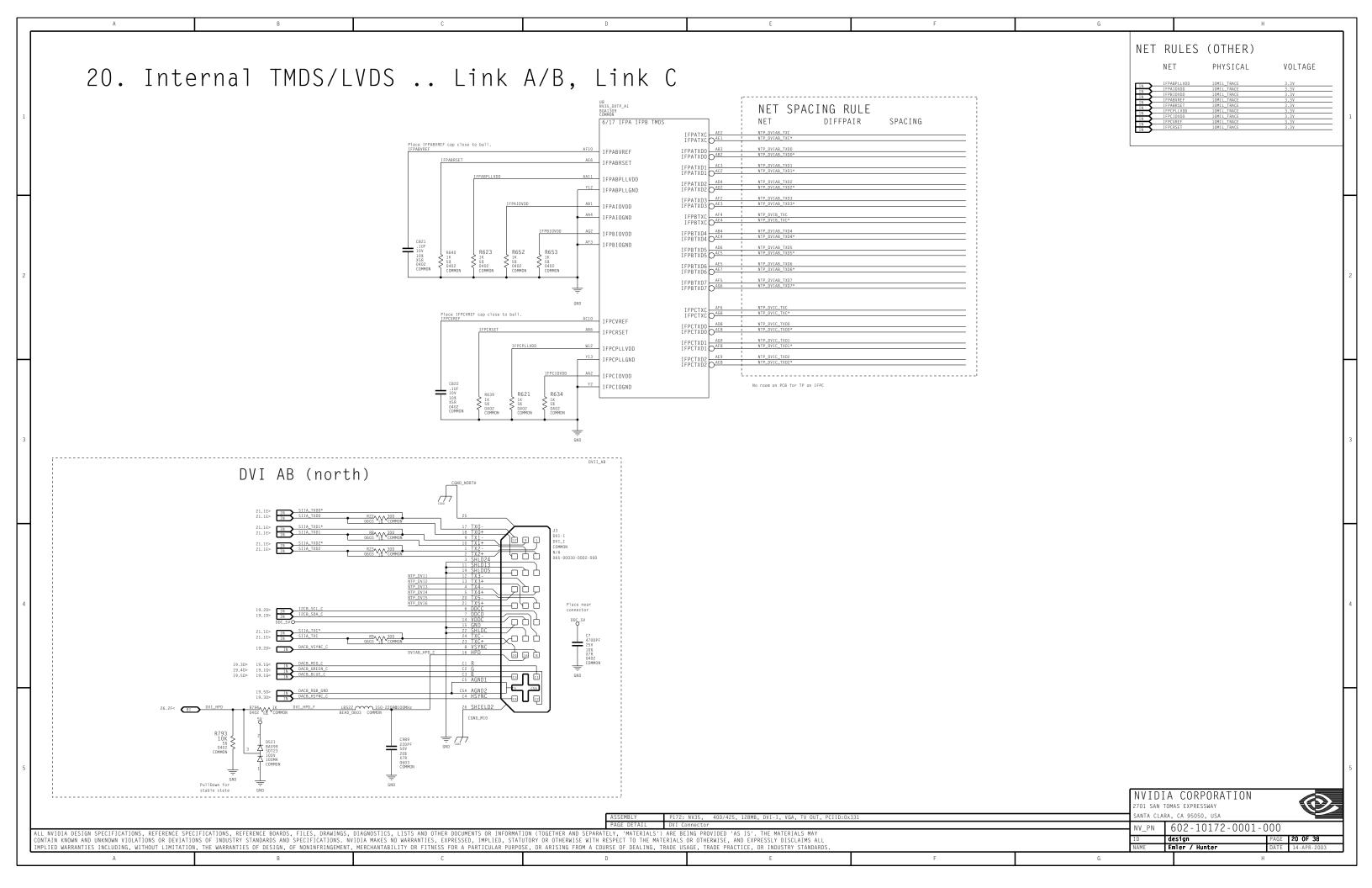


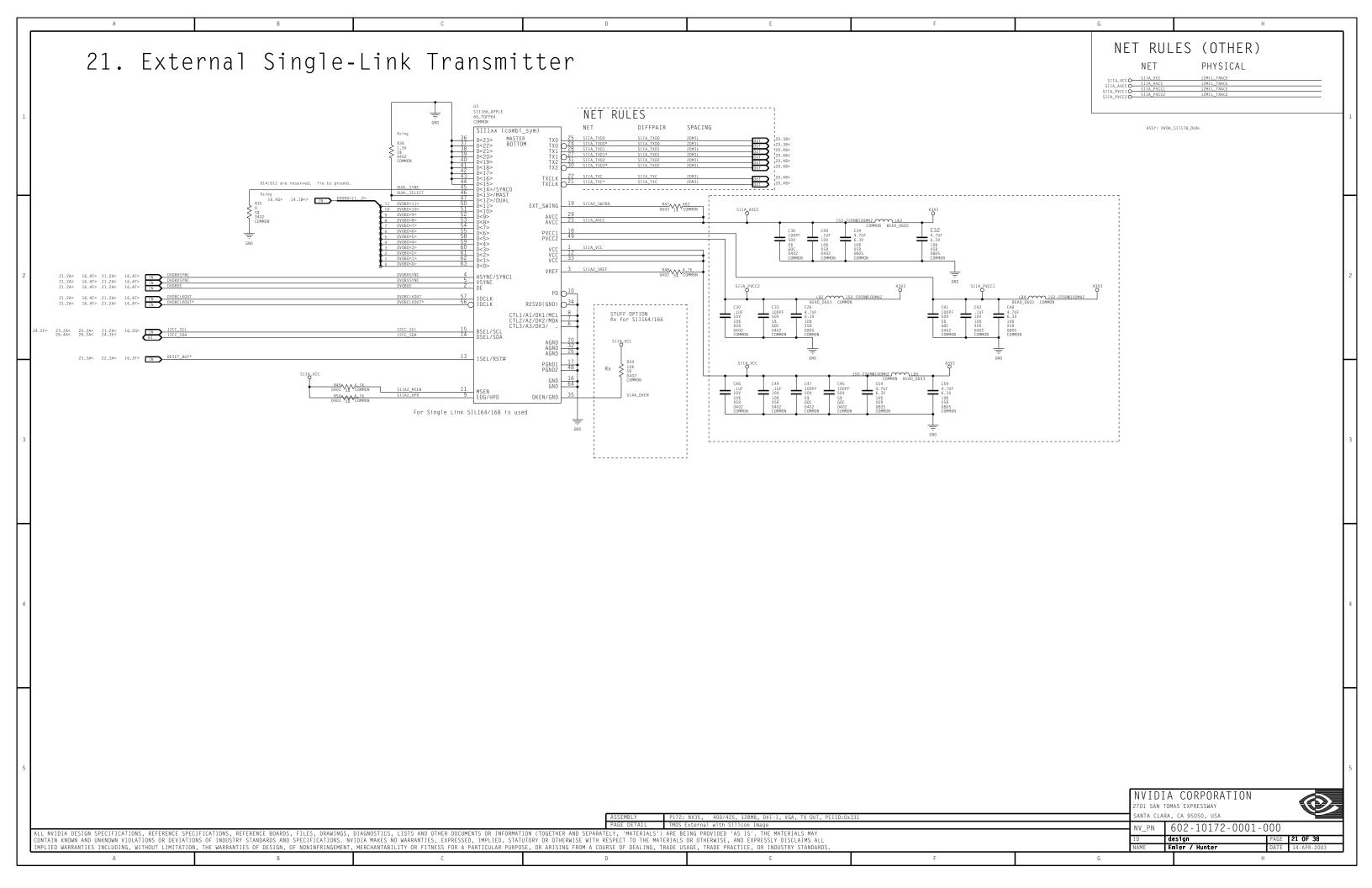


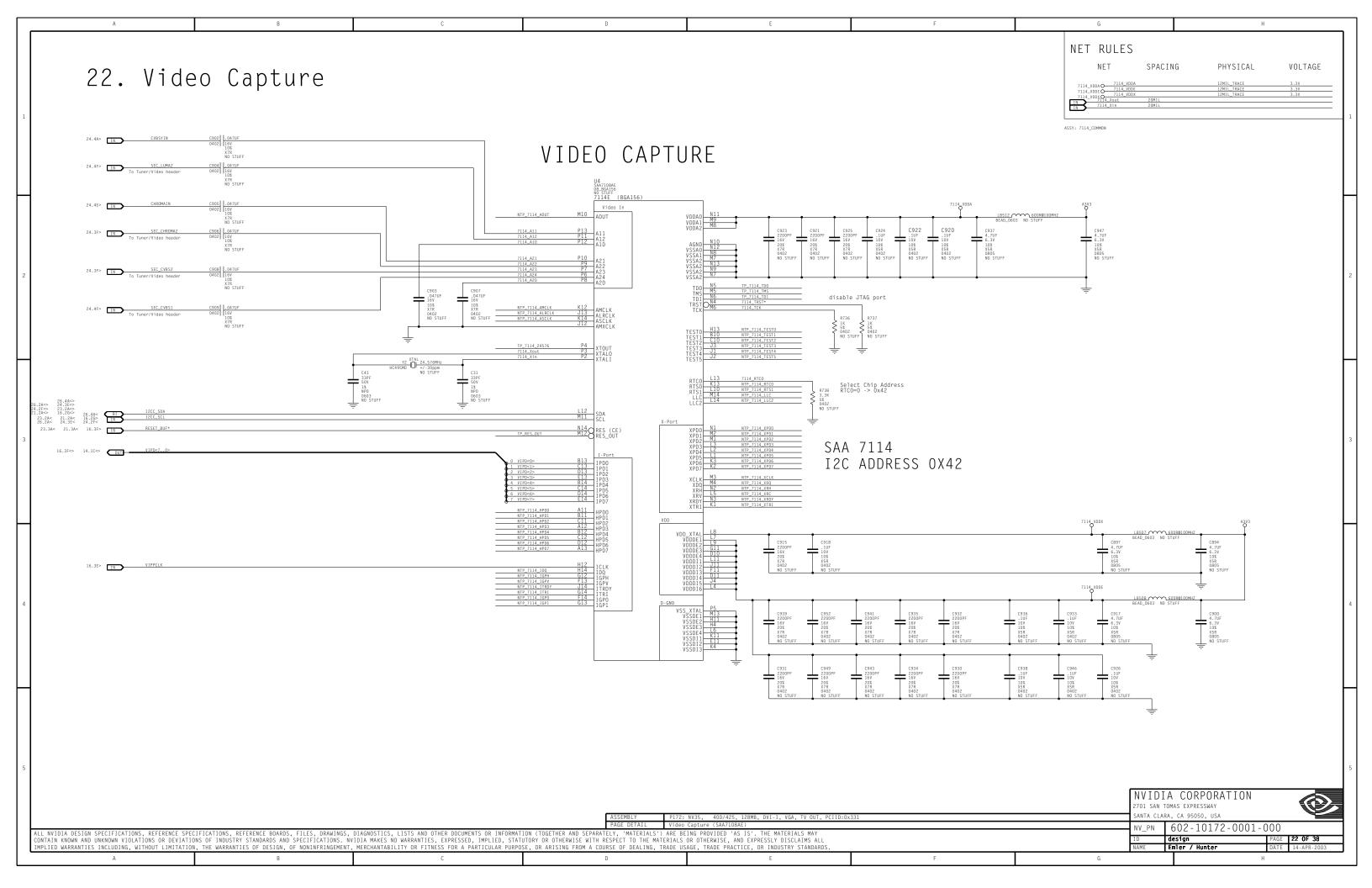


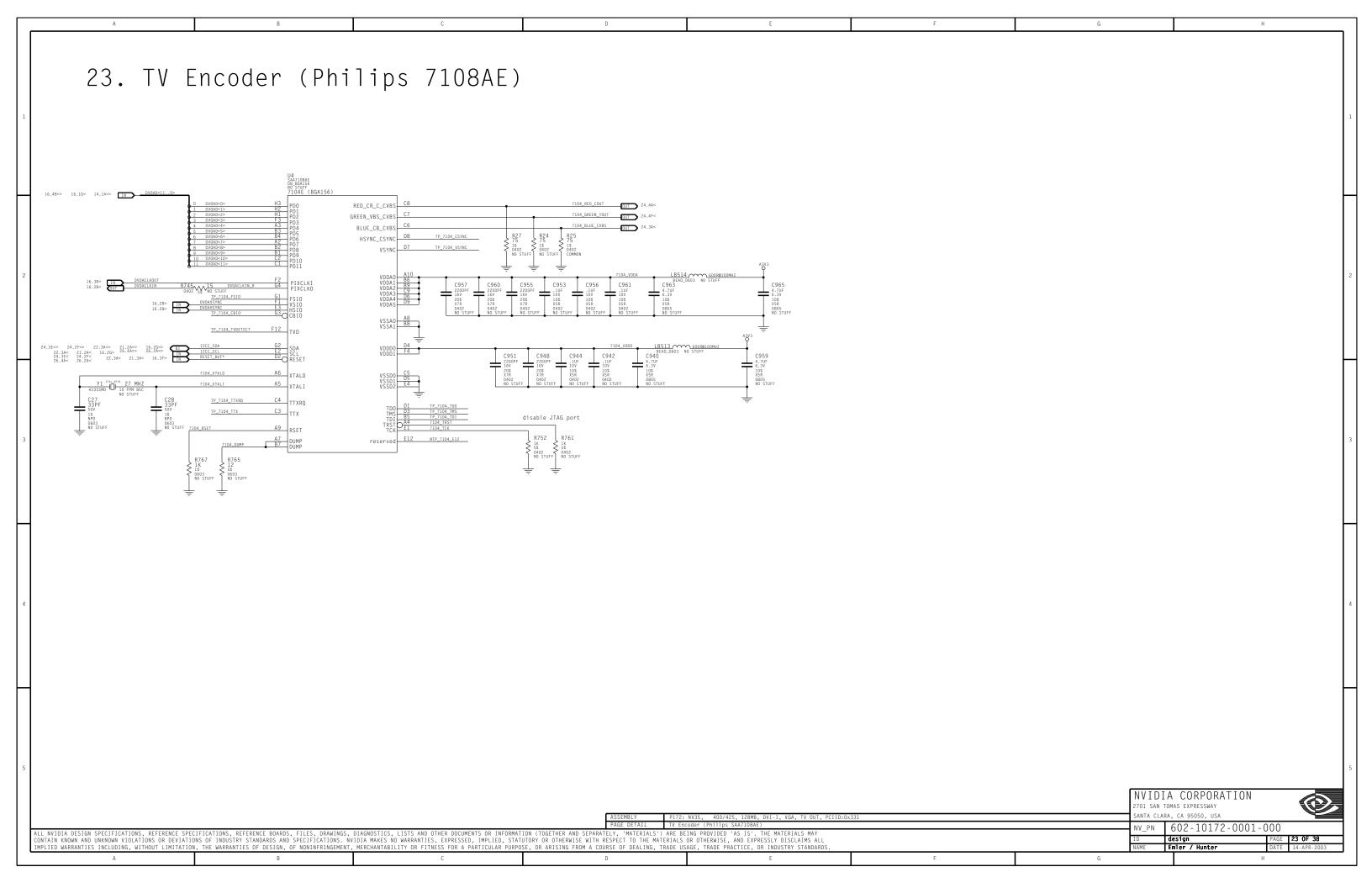


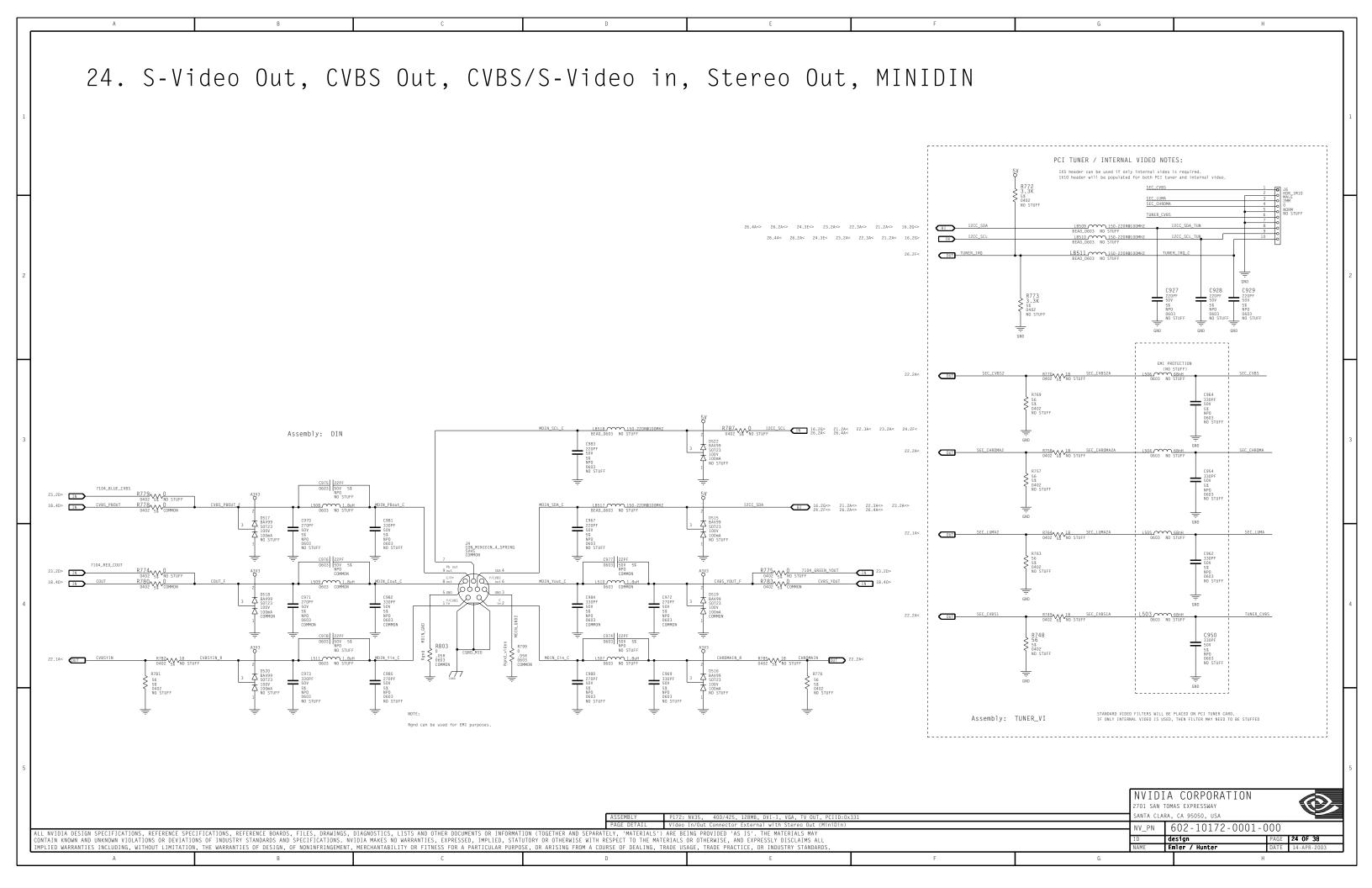


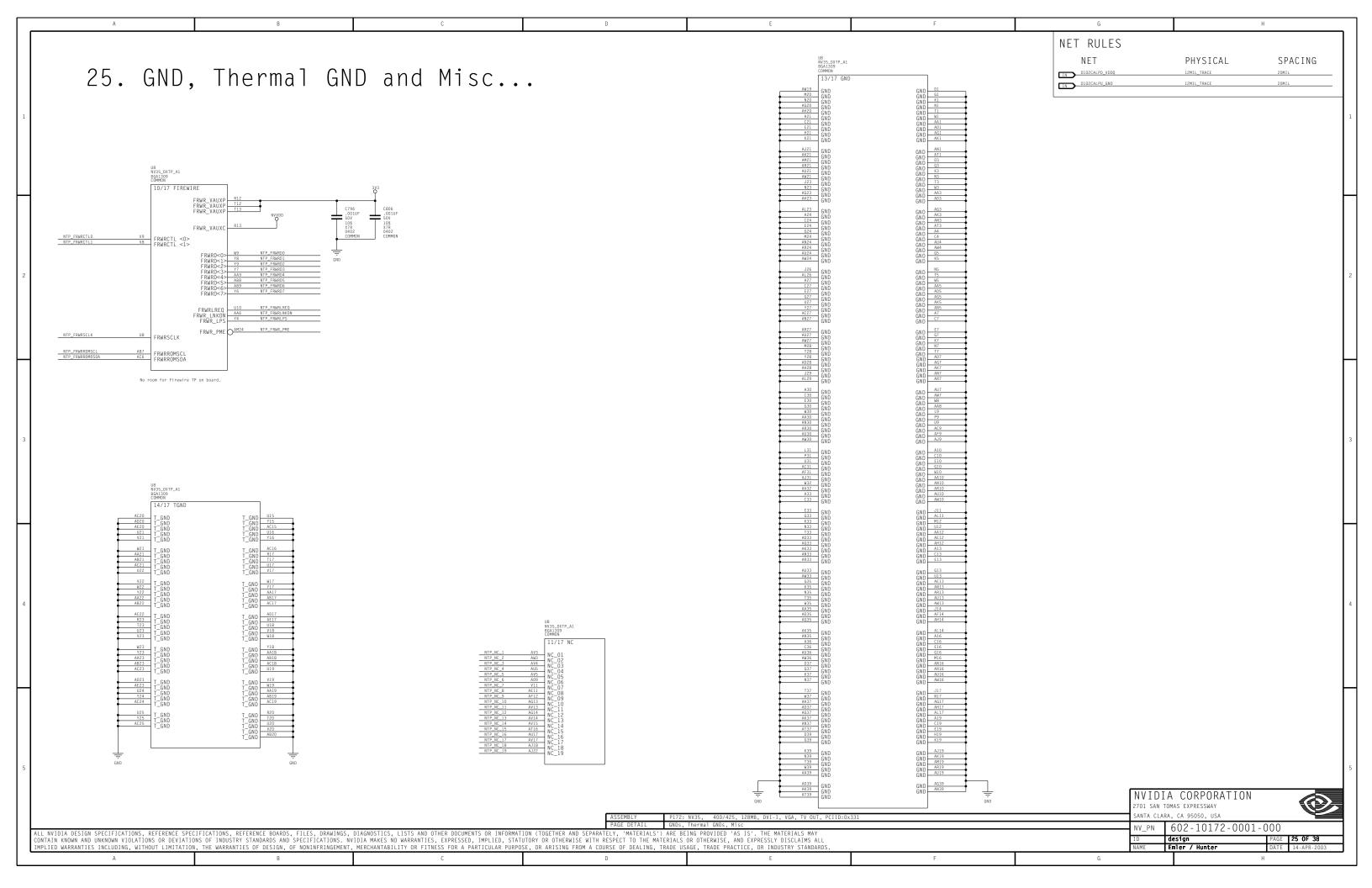


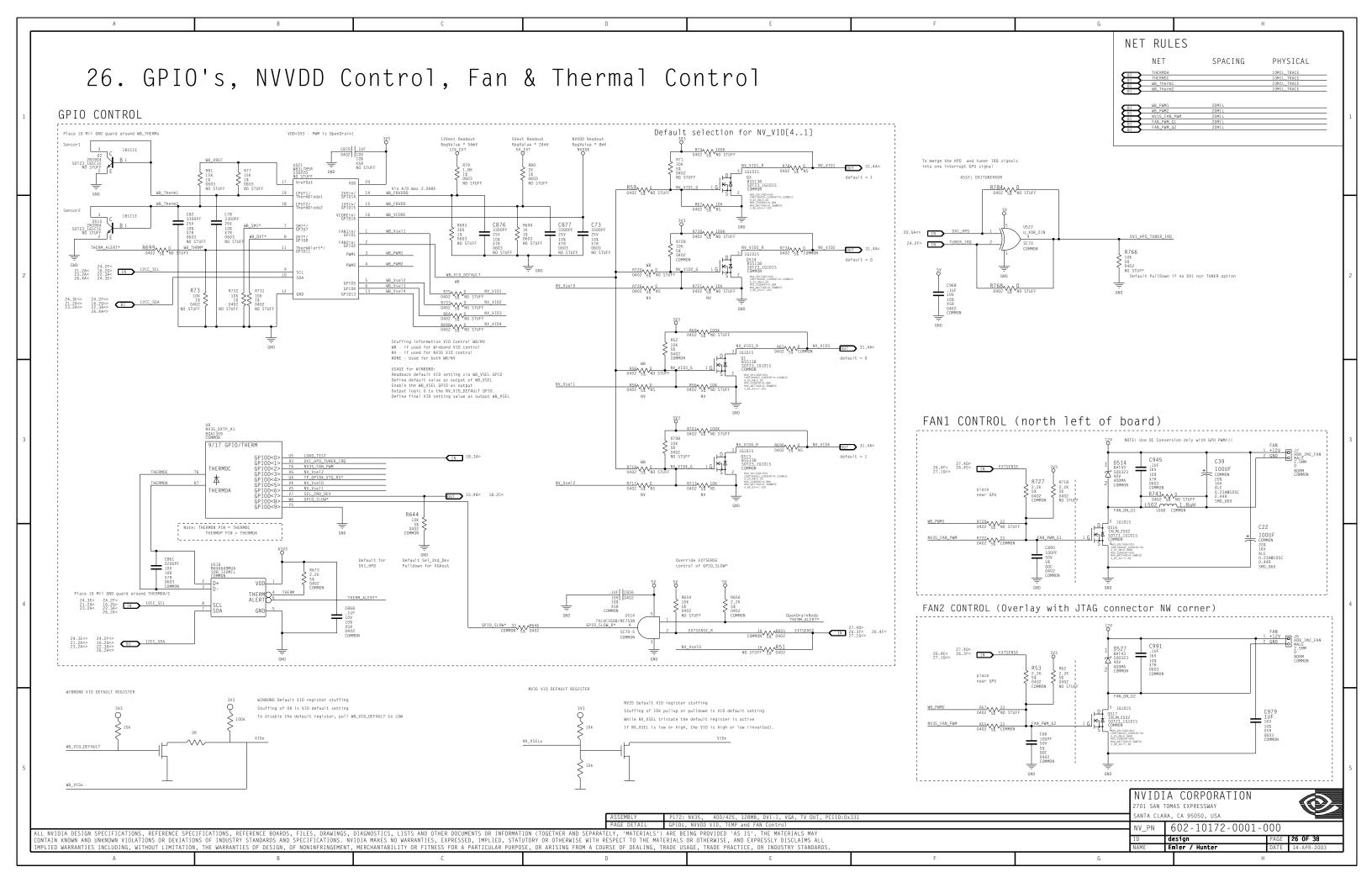




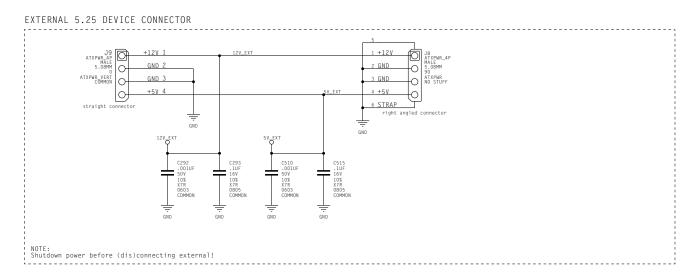


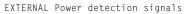


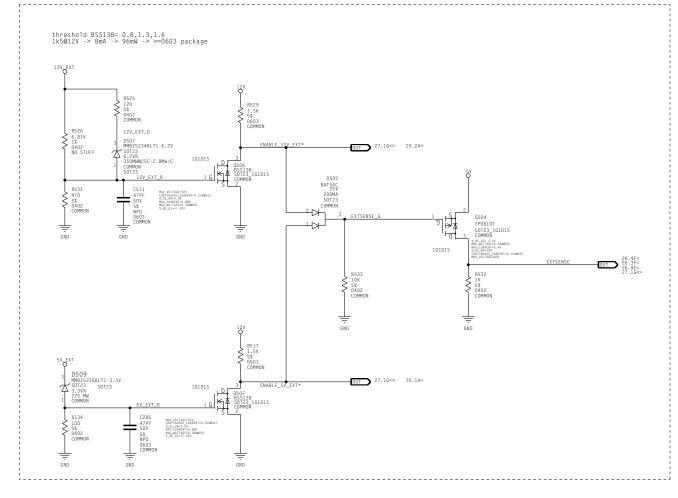




27. EXT POWER CONNECTION AND DETECTION





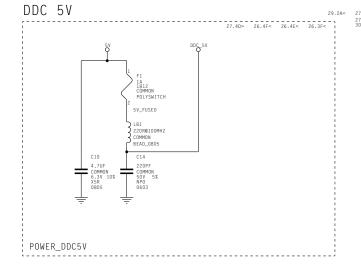


NET RULES

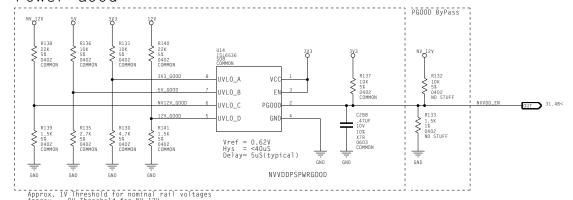
	5V_EXT O	5V_EXT	36MIL_TRACE	5 V
	12V EXT O-	12V_EXT	36MIL_TRACE	12V
	12V_EXTO		5V EXT and 12V EXT need to be	
			220mil internal and 72 mil external	
_		12V_EXT_D	12MIL TRACE	
10	BI	12V_EXT_R	12MIL TRACE	
- IC	BI			
_ <i>></i> _	BI	5V_EXT_R	12MIL_TRACE	
	BI	ENABLE_12V_EXT*	12MIL_TRACE	12V
	BI	ENABLE_5V_EXT*	12MIL_TRACE	5 V
	BI	EXTSENSE	8MIL_TRACE	
`	_	nnc sv	12MIL TRACE	
_ _				5.V
<	RI			
C	DDC_5VO	DDC_5V 5V_FUSED	12MIL_TRACE 12MIL_TRACE	5V

PHYSICAL

VOLTAGE



Power Good



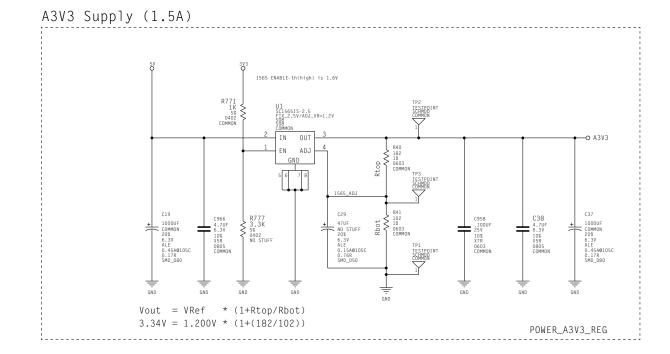
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28. Power Supply I: Analog 3V3

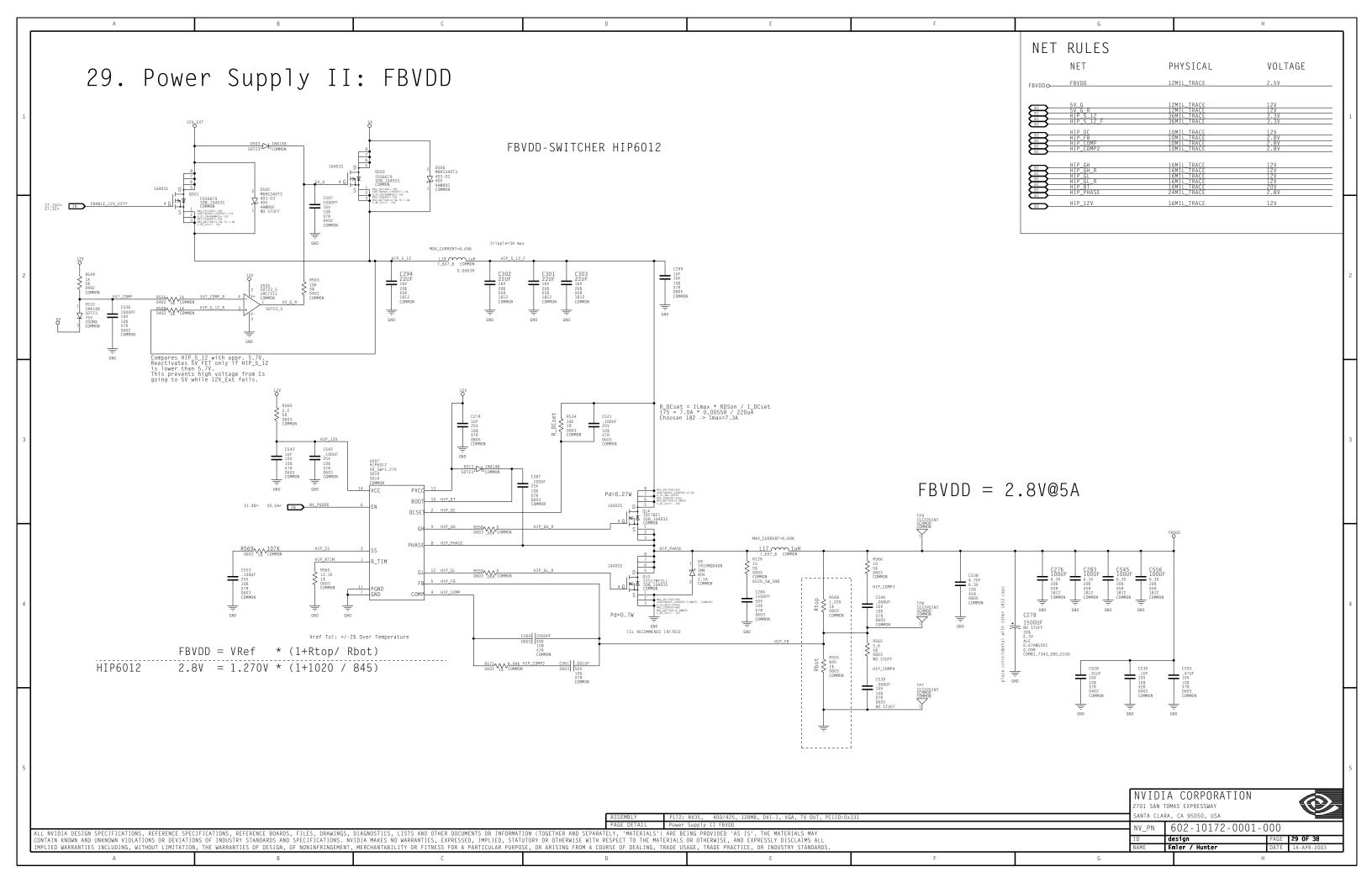
NET RULES PHYSICAL VOLTAGE

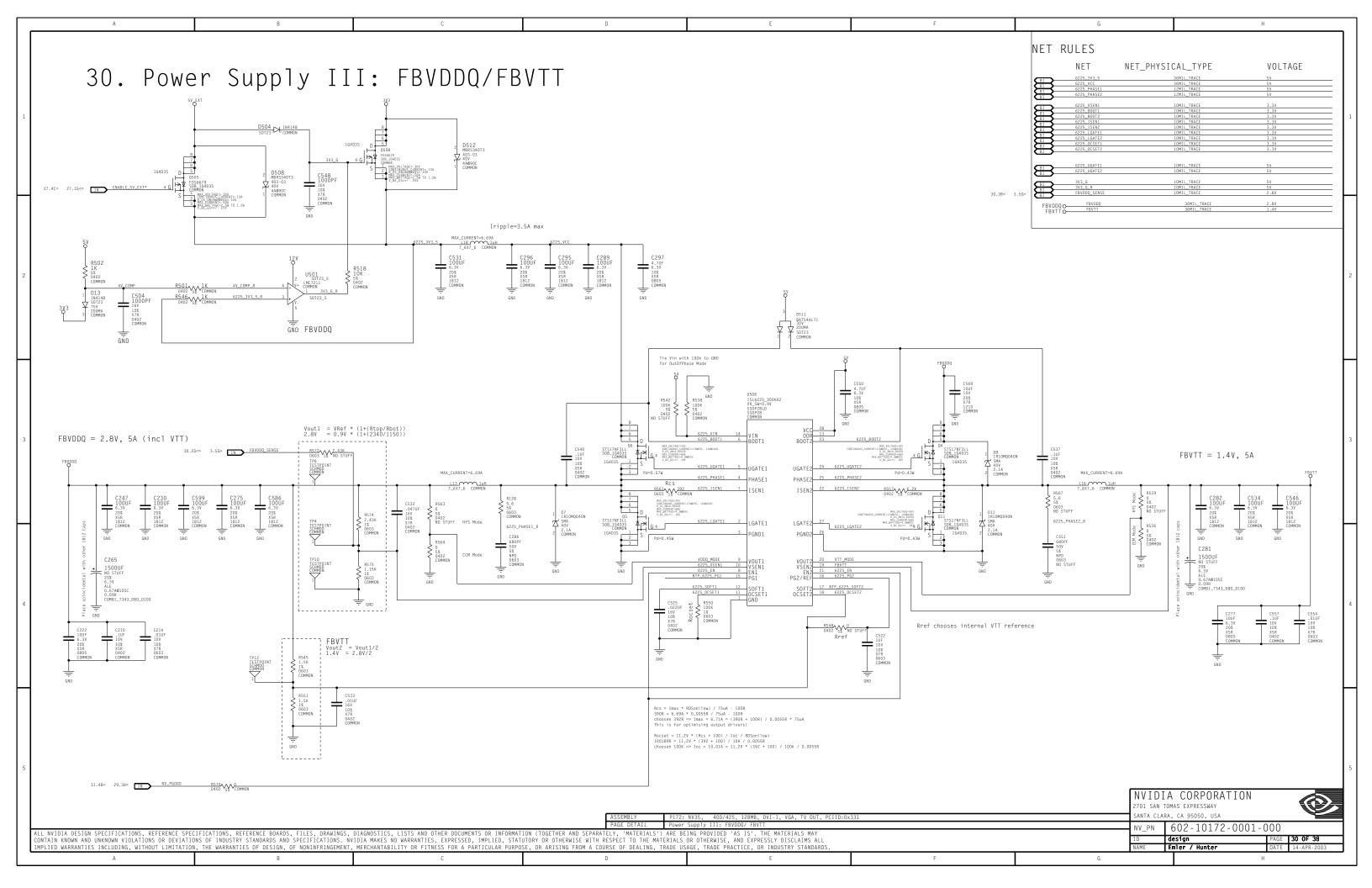


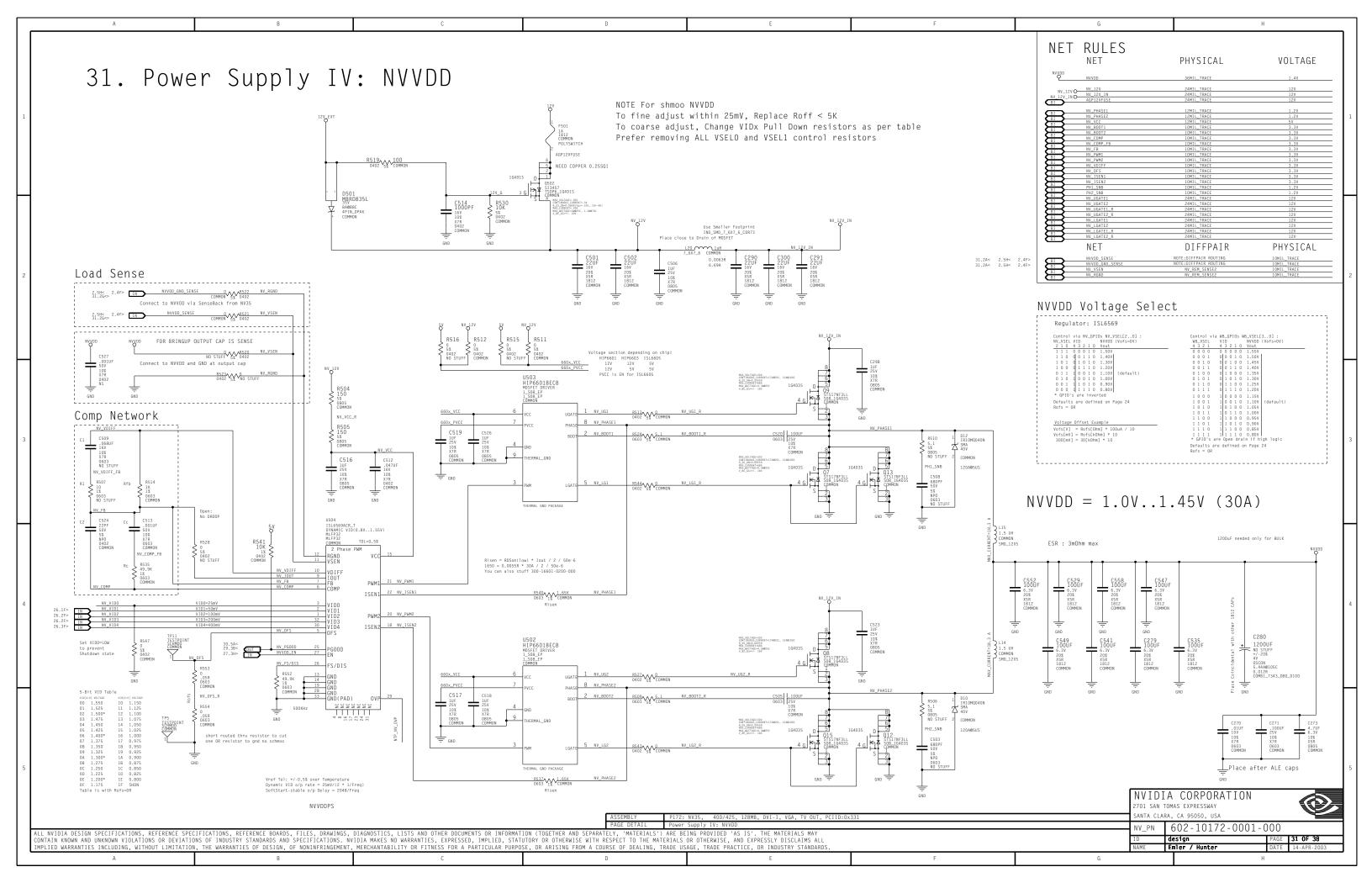
NVIDIA CORPORATION 2701 SAN TOMAS EXPRESSWAY

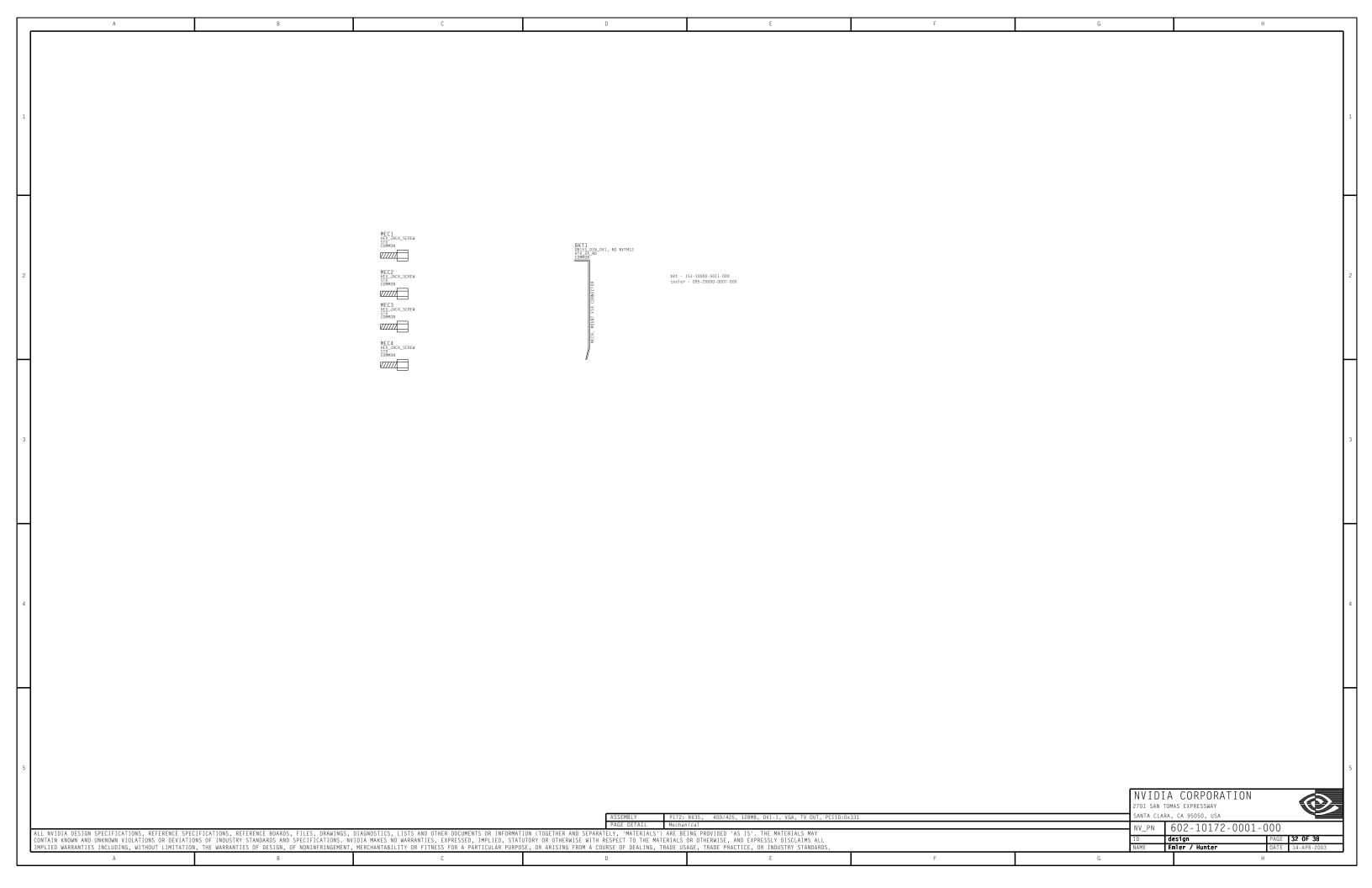
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A	В	C D	F	F	G H
7	ل ا	, I	r	'	
*** Signal Cross-Reference for the entire design ***	DVOAD<5> 14.1A<> 16.1G< 16.4B<> 23.2A< DVOAD<6> 14.1A<> 16.1G< 16.4B<> 23.2A<	FBAD<630> 3.1A<> 3.1C<> 4.4A<> 4.4C<> 4.5A<> 4.5C<> 5.4A<> 5.4D<> 5.5A<> 5.5D<>	FBAD<37> 3.14\sigma 3.10\sigma 4.44\sigma 4.40\sigma 4.56\sigma 5.44\sigma 5.50\sigma 5.50\sigma	FBB0BA1 3.3E> 6.2A< 7.2C< 13.4B<> FBB0CAS* 3.3E> 6.1A< 7.1C< 13.4B<>	
3V3_6 30.16⇔ 3V3_6_R 30.16⇔	DVOAD<7> 14.1A 16.1G 16.4B 23.2A 25.2D 0VOAD 28 14.1A 16.1G 16.4B 23.2A 24 25.2B 25.	13.2B⇔ FBAD<1> 3.1A⇔ 3.1C⇔ 4.4A⇔ 4.4C⇔ 4.5A⇔	13.2B \$\times\$ FBAD<38> 3.1A \$\times\$ 3.1C \$\times\$ 4.4A \$\times\$ 4.4C \$\times\$ 4.5A \$\times\$	FBBOCKE 3.4D> 6.2A< 7.2C< 13.4B<> FBBOCKE 3.4E> 6.2C< 13.2B<>	
5V1085 28.1G↔ 5V_EXT_R 27.1G↔	DVOAD<9> 14.1A >> 16.1G <> 16.4B >> 23.2A <> DVOAD<10> 14.1A >> 16.1G <> 16.4B >> 23.2A <> 23.2A <> 24.1B >> 23.2A <> 25.2B >> 25	4.5C⇔ 5.4A⇔ 5.4D⇔ 5.5A⇔ 5.5D⇔ 13.2B⇔	4.5C⇔ 5.4A⇔ 5.4D⇔ 5.5A⇔ 5.5D⇔ 13.2B⇔	FBBOCLKO* 3.4E> 6.2C< 13.2B<> FBBOCLK1 3.4E> 7.2C< 13.2B<>	
5V_FUSED 27.16↔ 5V_G 29.16↔	DV0AD<11> 14.1A \$\infty\$ 16.1G< 16.4B \$\infty\$ 23.2A < DV0AD<12> 14.1A \$\infty\$ 16.1G< 16.4B \$\infty\$	FBAD<2> 3.1A\sigma 3.1C\sigma 4.4A\sigma 4.4C\sigma 4.5A\sigma 4.5C\sigma 5.4A\sigma 5.4D\sigma 5.5A\sigma 5.5D\sigma	FBAD<39> 3.1A<> 3.1C 4.4A 4.5C 5.4A 5.5A 5.5D	FBBOCLK1* 3.4E> 7.2C< 13.2B<> FBBORAS* 3.3E> 6.1A< 7.1C< 13.4B<>	
5V_G_R 29.16↔ 12V_EXT_D 27.16↔	DVOAD<13> 14.1A<> 16.1G< 16.4B<> DVOAD<14> 14.1A<> 16.1G< 16.4B<>	13.2B\$ FBAD<3> 3.1A\$\times 3.1C\$\times 4.4A\$\times 4.4C\$\times 4.5A\$\$	13.28♦ FBAD<40> 3.1A♦ 3.1C♦ 4.4A♦ 4.4C♦ 4.5A♦	FBBONE* 3.4E> 6.1A< 7.1C< 13.4B<> FBB1A<0> 3.3G> 6.1C< 7.1A< 13.3B<>	
12V_EXT_R 27.16<> 1085_ADJ 28.16<>	DVOAD<15> 14.1A< 16.1G< 16.4B<-> DVOAD<16> 14.1A< 16.1G< 16.4B<->	4.5C	4.5C⇔ 5.4A⇔ 5.4D⇔ 5.5A⇔ 5.5D⇔ 13.2B⇔	FBB1A<120> 3.36> 6.10< 7.1A<13.3B<> FBB1A<130> 3.36> 6.10< 7.1A<13.3B<>	
6225_8800T1 30.16<>	DVOAD<17> 14.1A< 16.1G 16.4B DVOAD<18> 14.1A< 16.1G 16.4B	FBAD<4> 3.1A 3.1C 4.4A 4.4C 4.5A 4.5C 5.4A 5.5A 5.5D	FBAD<41> 3.1C → 4.4A → 4.4C → 4.5A → 4.5C → 5.4A → 5.4D → 5.5A → 5.5D →	FBB1A<1> 3.36 6.10< 7.1A< 13.3B<> FBB1A<2> 3.36 6.10< 7.1A<13.3B<>	
6225_B00T2 30.1G⇔	DVOAD<19> 14.1A 16.1G 16.4B	13.2B<>	13.28⇔	FBB1A<3> 3.3G> 6.1C< 7.1A< 13.3B<>	
6225_ISEN1 30.1G ⇒ 6225_ISEN2 30.1G ⇒	DVOAD<20> 14.14<> 16.16< 16.48<> DVOAD<21> 14.14<> 16.16< 16.48<>	FBAD<5> 3.1A 0.3.1C 0.4.4A 0.4.4C 0.5A 0.5A 0.5C 0.5.4A 0.5.4D 0.5.5A 0.5.5D 0.5A 0.5A 0.5A 0.5A 0.5A 0.5A 0.5A 0.5A	FBAD<42> 3.1A \diamondsuit 3.1C \diamondsuit 4.4A \diamondsuit 4.4C \diamondsuit 4.5A \diamondsuit 4.5C \diamondsuit 5.4A \diamondsuit 5.4D \diamondsuit 5.5A \diamondsuit 5.5D \diamondsuit	FBB1A<4> 3.3G> 6.1C< 7.1A< 13.3B<> FBB1A<5> 3.3G> 6.1C< 7.1A< 13.3B<>	
6225_LGATE1 30.1G↔ 6225_LGATE2 30.1G↔	DVOAD<22> 14.14 ← 16.1G< 16.4B ← DVOAD<23> 14.14 ← 16.1G< 16.4B ←	13.2B⇔ FBAD<6> 3.1A⇔ 3.1C⇔ 4.4A⇔ 4.4C⇔ 4.5A⇔	13.2B⇔ FBAD<43> 3.1A⇔ 3.1C⇔ 4.4A⇔ 4.4C⇔ 4.5A⇔	FBB14<6> 3.36> 6.1C< 7.14< 13.38<> FBB14<7> 3.36> 6.1C< 7.14< 13.38<>	
6225_OCSET1 30.16↔ 6225_OCSET2 30.16↔	DVOAD_R<0> 16.1G< DVOAD_R<230> 16.1G<	4.5C	4.5C♦ 5.4A♦ 5.4D♦ 5.5A♦ 5.5D♦ 13.2B♦	FBB14<8> 3.36> 6.10< 7.14< 13.38<> FBB14<9> 3.36> 6.10< 7.14< 13.38<>	
6225_PHASE1 30.1G↔ 6225_PHASE2 30.1G↔	DVOAD_R<1> 16.1G< DVOAD_R<2> 16.1G<	FBAD<7> 3.1A⇔ 3.1C⇔ 4.4A⇔ 4.4C⇔ 4.5A⇔ 4.5C⇔ 5.4A⇔ 5.4D⇔ 5.5A⇔ 5.5D⇔	FBAD<44> 3.1A 3.1A 3.1C 4.4A 4.4C 4.5A 4.5C 5.4A 5.5A 5.5A 5.5D	FBB14<10> 3.36> 6.10< 7.14< 13.38<> FBB14<11> 3.36> 6.10< 7.14< 13.38<>	
6225_UGATE1 30.1G<> 6225_UGATE2 30.1G<>	DVOAD_R<3> 16.1G< DVOAD_R<4> 16.1G<	13.2B<> FBAD<8> 3.1A<> 3.1C<> 4.4A<> 4.4C<> 4.5A<>	13.28⇔ FBAD<45> 3.14⇔ 3.1C⇔ 4.4A⇔ 4.4C⇔ 4.5A⇔	FBB1A<12> 3.3G> 6.1C< 7.1A< 13.3B<> FBB1BAO 3.3F> 6.2C< 7.2A< 13.4B<>	
6225_VCC 30.16<> 6225_VSEN1 30.16<>	DVOAD_R<5> 16.1G< DVOAD_R<6> 16.1G<	4.5C ◇ 5.4A ◇ 5.4D ◇ 5.5A ◇ 5.5D ◇ 13.2B ◇	4.5C⇔ 5.4A⇔ 5.4D⇔ 5.5A⇔ 5.5D⇔ 13.2B⇔	FBB1BA1 3.3F> 6.2C< 7.2A< 13.4B<> FBB1CAS* 3.3F> 6.1C< 7.1A< 13.4B<>	
7104_BLUE_CVBS 23.2D> 24.3A< 7104_GREEN_YOUT 23.2D> 24.4F<	DVOAD_R<7> 16.1G< DVOAD_R<8> 16.1G<	FBAD<9> 3.1A > 3.1C > 4.4A > 4.4C > 4.5A > 4.5C > 5.5D > 5	FBAD<46> 3.1A \leftrightarrow 3.1C \leftrightarrow 4.4C \leftrightarrow 4.5C \leftrightarrow 5.4A \leftrightarrow 5.5D \leftrightarrow 5.5D \leftrightarrow 5.5D \leftrightarrow 5.5D \leftrightarrow 5.4D \leftrightarrow 5.4D \leftrightarrow 5.5D \leftrightarrow 5.4D \leftrightarrow 5.5D \leftrightarrow 5.4D \leftrightarrow 5.5D \leftrightarrow 5.5D \leftrightarrow 5.4D \leftrightarrow 5.5D \leftrightarrow	FBB1CKE 3.4F> 6.2C< 7.2A< 13.4B<> FBB1CLKO 3.4F> 6.2A< 13.2B<>	
7104_RED_COUT 23.2D> 24.4A< 7114_XIN 22.1G<	DVOAD_R<9> 16.1G< DVOAD_R<10> 16.1G<	13.28\$\times FBAD<10> 3.1A\$\sigma 3.1C\$\sigma 4.4A\$\sigma 4.4C\$\sigma 4.5A\$\sigma	13.2B⇔ FBAD<47> 3.1A > 3.1C > 4.4A > 4.4C > 4.5A ◇	FBBICLK0* 3.4F> 6.2A< 13.2B<> FBBICLK1 3.4F> 7.2A< 13.2B<>	
7114_X0UT 22.16< AGP12VFUSE 31.16<>	DVOAD_R<11> 16.16< DVOADSYNC 16.2B> 23.2A<	4.5C	4.5C⇔ 5.4A⇔ 5.4D⇔ 5.5A⇔ 5.5D⇔ 13.2B⇔	FBBICLKI* 3.4F> 7.2A< 13.2B<> FBBIRAS* 3.3F> 6.1C< 7.1A< 13.4B>	2
AGPADSTBF0 2.4H< AGPADSTBF1 2.4H<	DVOANSYNC 16.28> 23.2A< DVOBCLKOUT 16.4F> 21.2A<	FBAD<11> 3.1A \Leftrightarrow 3.1C \Leftrightarrow 4.4A \Leftrightarrow 4.4C \Leftrightarrow 4.5A \Leftrightarrow 4.5C \Leftrightarrow 5.4A \Leftrightarrow 5.5D \Leftrightarrow 5.5A \Leftrightarrow 5.5D \Leftrightarrow	FBAD<48> 3.14<> 3.15<> 4.44<> 4.45< 4.54< 4.54< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55< 4.55<	FBBIME* 3.4F> 6.1C< 7.1A< 13.4B> FBBCS0* 3.4E> 6.1A< 6.1C< 13.4B>	
AGPADSTBSO 2.4H<	DVOBCLKOUT* 16.4F> 21.2A<	13.2B<>	13.28⇔	FBBCS1* 3.4F> 6.1A< 6.1C< 7.1A< 13.4B<>	
AGPADSTBS1 2.4H< AGPCALPP_UDQ0 2.5H<	DV0BD<0> 14.18<> 16.46> 21.28< DV0BD<110> 14.18<> 16.46> 21.28<	FBAD<12> 3.1A \Leftrightarrow 3.1C \Leftrightarrow 4.4A \Leftrightarrow 4.4C \Leftrightarrow 4.5A \Leftrightarrow 4.5C \Leftrightarrow 5.4A \Leftrightarrow 5.4D \Leftrightarrow 5.5A \Leftrightarrow 5.5D \Leftrightarrow	FBAD<49> 3.1A<> 3.1C<> 4.4A<> 4.4C<> 4.5A<> 4.5C<> 5.4A<> 5.4D<> 5.5A<> 5.5D<	FBBD<0> 3.10< 3.16<> 6.44<> 6.40< 6.50 6.50 7.40 7.50	
AGPCALPU_GND 2.5H< AGPDBI_HI 2.4H<	DV0BD<1> 14.18<> 16.46> 21.28< DV0BD<2> 14.18<> 16.46> 21.28<	13.2B⇔ FBAD<13> 3.1A⇔ 3.1C⇔ 4.4A⇔ 4.4C⇔ 4.5A⇔	13.2B⇔ FBAD<50> 3.1A⇔ 3.1C⇔ 4.4A⇔ 4.4C⇔ 4.5A⇔	13.2B⇔ FBBD<630> 3.10⇔ 3.16⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔	
AGPDBI_LO 2.4H< AGPMBDET 2.5H<	DV0BD<3> 14.1B<> 16.4G> 21.2B< DV0BD<4> 14.1B<> 16.4G> 21.2B<	4.5C	4.5C⇔ 5.4A⇔ 5.4D⇔ 5.5A⇔ 5.5D⇔ 13.2B⇔	6.5D◇ 7.4A◇ 7.4C◇ 7.5A◇ 7.5C◇ 13.2B◇	
AGPRBF 2.4H< AGPSBA<0> 2.4H<	DVOBD<5> 14.18<> 16.46> 21.28< DVOBD<6> 14.18<> 16.46> 21.28<	FBAD<14> 3.14<> 3.10 4.44 4.50 5.40 5.50	FBAD<51> 3.14\sigma 3.10\sigma 4.44\sigma 4.40\sigma 4.56\sigma 5.44\sigma 5.50\sigma 5.50\sigma	FBBD<1> 3.10⇔ 3.16⇔ 6.40⇔ 6.50⇔ 6.50⇔ 6.50⇔ 7.40⇔ 7.40⇔ 7.50⇔	
AGPSBA<70> 2.4H< AGPSBA<1> 2.4H<	DVOBD<7> 14.1B<> 16.4G> 21.2B< DVOBD<8> 14.1B<> 16.4G> 21.2B<	13.2B⇔ FBAD<15> 3.1A⇔ 3.1C⇔ 4.4A⇔ 4.4C⇔ 4.5A⇔	13.2B\$\times FBAD<52> 3.1A\$\times 3.1C\$\times 4.4A\$\times 4.4C\$\times 4.5A\$\times 5.4C\$\times 5.4C\$	13.2B⇔ FBBD<2> 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔	
AGPSBA<2> 2.4H< AGPSBA<3> 2.4H<	DV0BD<9> 14.1B <> 16.46 > 21.2B < DV0BD<10 > 14.1B <> 16.46 > 21.2B < 21.2B < DV0BD<10 > 14.1B <> 16.46 > 21.2B <	4.5C⇔ 5.4A⇔ 5.4D⇔ 5.5A⇔ 5.5D⇔ 13.2B⇔	4.5C⇔ 5.4A⇔ 5.4D⇔ 5.5A⇔ 5.5D⇔ 13.2B⇔	6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔ 13.2B⇔	
AGPSBA<4> 2.4H< AGPSBA<5> 2.4H<	DVOBDE 16.4G-21.2B< DVOBDE 16.4F-21.2A<	FBAD<16> 3.1A \diamond 3.1C \diamond 4.4A \diamond 4.4C \diamond 4.5A \diamond 4.5C \diamond 5.4A \diamond 5.4D \diamond 5.5A \diamond 5.5D \diamond	FBAD<53> 3.1A< 3.1C< 4.4A< 4.4C< 4.5A< 4.5C<> 5.4A< 5.4D<> 5.5A<> 5.5D<>	FBBD<3> 3.10< 5.4A< 6.4D< 6.5A 6.50< 7.4C 7.5A 7.5C 	
AGPSBA<5> 2.4H< AGPSBA<7> 2.4H<	DVOBHSYNC 16.4F> 21.2A< DVOBHSYNC 16.4F> 21.2A<	13.2B\$\\ 13.2B\$\\ FBAD<17> 3.1A\$\to 3.1C\$\to 4.4A\$\to 4.4C\$\to 4.5A\$\\	13.28 S 1.40 S 1.50 S 1	13.2B↔ FBBD<4> 3.10↔ 3.16↔ 6.4A↔ 6.4D↔ 6.5A↔	
AGPSBSTBF 2.4H<	ENABLE_5V_EXT* 27.1G<> 27.4C> 30.1A<	4.5C ◇ 5.4A ◇ 5.4D ◇ 5.5A ◇ 5.5D ◇	4.5C 5.4A 5.4D 5.5A 5.5D	6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔	
AGPSBSTBS 2.4H< AGPSTO 2.4H<	ENABLE_12V_EXT* 27.1G <> 27.3C > 29.2A < EXTSENSE 26.3F < 26.4E < 26.4F < 27.1G <> 27.4D >	13.28⇔ FBAD<18> 3.16⇔ 4.44⇔ 4.40⇔ 4.54⇔	13.2B⇔ FBAD<55> 3.1A⇔ 3.1C⇔ 4.4A⇔ 4.4C⇔ 4.5A⇔	13.2B⇔ FBBD<5> 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔	
AGPST1 2.4H< AGPST2 2.4H<	FAN_PWM_G1 26.1G⇔	4.5C	4.5C⇔ 5.4A⇔ 5.4D⇔ 5.5A⇔ 5.5D⇔ 13.2B⇔	6.5D ◇ 7.4A ◇ 7.4C ◇ 7.5A ◇ 7.5C ◇ 13.2B ◇	3
AGPSTOP 2.5H< AGPVREF 2.5H<	FAN_PWM_G2 26.1G FBAOA <o> 3.3A> 4.1A< 5.1C< 13.3B <></o>	FBAD<19> 3.1A<> 3.1C<> 4.4A<> 4.4C<> 4.5A<> 4.5C<> 5.4A<> 5.4D<> 5.5A<> 5.5D<>	FBAD<56> 3.14\sigma 3.10\sigma 4.44\sigma 4.40\sigma 4.56\sigma 5.44\sigma 5.54\sigma 5.50\sigma	FBBD<6> 3.10⇔ 3.16⇔ 6.40⇔ 6.50⇔ 6.50⇔ 6.50⇔ 7.40⇔ 7.40⇔ 7.50⇔	ľ
AGPVREFCG 2.4H< AGPVREFGC 2.5H<	FBA0A<120> 3.3A> 4.1A< 5.1C< 13.3B⇔ FBA0A<130> 3.3A> 4.1A< 5.1C< 13.3B⇔	13.2B\$\times FBAD<20> 3.1A\$\times 3.1C\$\times 4.4A\$\times 4.4C\$\times 4.5A\$\times 1.5A\$\times 1.5A\$\ti	13.2B \Leftrightarrow FBAD<57> 3.1A \Leftrightarrow 3.1C \Leftrightarrow 4.4A \Leftrightarrow 4.4C \Leftrightarrow 4.5A \Leftrightarrow	13.2B⇔ FBBD<7> 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔	
AGPWBF 2.4H< CHROMAIN 22.2A< 24.4E>	FBA0A<1> 3.3A> 4.1A< 5.1C< 13.3B<> FBA0A<2> 3.3A> 4.1A< 5.1C< 13.3B<>	4.5C⇔ 5.4A⇔ 5.4D⇔ 5.5A⇔ 5.5D⇔ 13.2B⇔	4.5C⇔ 5.4A⇔ 5.4D⇔ 5.5A⇔ 5.5D⇔ 13.2B⇔	6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔ 13.2B⇔	
COUT 18.4D> 24.4A< CVBSYIN 22.1A< 24.4A>	FBA0A<3> 3.3A> 4.1A< 5.1C< 13.3B<> FBA0A<4> 3.3A> 4.1A< 5.1C< 13.3B<>	FBAD<21> 3.1A< 3.1C< 4.4A< 4.4C< 4.5A< 4.5C< 5.4A< 5.4D< 5.5A< 5.5D<	FBAD<58> 3.1A<> 3.1C<> 4.4A<> 4.4C<> 4.5A<> 4.5C<> 5.4A	FBBD<8> 3.10 3.16 6.40 6.40 6.50 6.50 6.50 7.40 7.40 7.50 7.50	
CVBS_PBOUT 18.4D> 24.4F< CVBS_YOUT 18.4D> 24.4F<	FBA0A<5> 3.3A> 4.1A< 5.1C< 13.3B<> FBA0A<6> 3.3A> 4.1A< 5.1C< 13.3B<>	13.2B\$\times 1.4\times 5.4\times 5.3\times 5.3	13.28 S 1.40 S 1.40 S 1.50 S 1	13.2B\$\rightarrow\$ 3.10\$\rightarrow\$ 3.10\$\rightarrow\$ 6.4A\$\rightarrow\$ 6.5A\$\rightarrow\$	
D1D2CALPD_VDDQ 25.1G<	FBA0A<7> 3.3A> 4.1A< 5.1C< 13.3B<>	4.5C⇔ 5.4A⇔ 5.4D⇔ 5.5A⇔ 5.5D⇔	4.5C⇔ 5.4A⇔ 5.4D⇔ 5.5A⇔ 5.5D⇔	6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔	
DID2CALPU_GND 25.1G< DACA_BLUE 15.2E> 15.4F< 17.1G< 17.5A<	FBA0A<8> 3.3A> 4.1A< 5.1C< 13.3B<> FBA0A<9> 3.3A> 4.1A< 5.1C< 13.3B<>	13.28\$ FBAD<23> 3.16\$\times 3.10\$\times 4.46\$\times 4.56\$\$	13.28\$\times FBAD<60\$\times 3.1A\$\times 3.1C\$\times 4.4A\$\times 4.5A\$\times 1.5A\$\times 1.	13.28⇔ FBBD<10> 3.10⇔ 3.16⇔ 6.40⇔ 6.5A⇔	L.
DACA_BLUE_C 17.1G< DACA_B_F 17.1G<	FBA0A<10> 3.3A> 4.1A< 5.1C< 13.3B<> FBA0A<11> 3.3A> 4.1A< 5.1C< 13.3B<>	4.5C⇔ 5.4D⇔ 5.5D⇔ 13.2B⇔	4.5C♦ 5.4A♦ 5.4D♦ 5.5A♦ 5.5D♦ 13.2B♦	6.5D◇ 7.4A◇ 7.4C◇ 7.5A◇ 7.5C◇ 13.2B◇	
DACA_GREEN 15.2E> 15.4F< 17.1G< 17.4A< DACA_GREEN_C 17.1G<	FBA0A<12> 3.3A> 4.1A< 5.1C< 13.3B<> FBA0BA0 3.3A> 4.2A< 5.2C< 13.4B<>	FBAD<24> 3.14<> 3.10 4.44 4.50 5.40 5.50	FBAD<61> 3.14\sigma 3.1C\sigma 4.4A\sigma 4.4C\sigma 4.5A\sigma 4.5C\sigma 5.4A\sigma 5.4D\sigma 5.5D\sigma	FBB0<11> 3.10<> 3.16<> 6.44<> 6.40<> 6.55<> 6.50<> 7.44<> 7.50<> 7.50<> 7.50<> 7.40<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<> 7.50<>	
DACA_G_F 17.1G< DACA_HSYNC_BUF 15.1H> 17.3A<	FBA0BA1 3.3A> 4.2A< 5.2C< 13.4B<> FBA0CAS* 3.3A> 4.1A< 5.1C< 13.3B<>	13.2B\$\times FBAD<25> 3.1A\$\times 3.1C\$\times 4.4A\$\times 4.4C\$\times 4.5A\$\times 1.5A\$\times 1.5A\$\ti	13.2B \Leftrightarrow FBAD<62> 3.1A \Leftrightarrow 3.1C \Leftrightarrow 4.4A \Leftrightarrow 4.4C \Leftrightarrow 4.5A \Leftrightarrow	13.2B⇔ FBBD<12> 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔	
DACA_RED 15.2E> 15.4F< 17.1G< 17.3A< DACA_RED_C 17.1G<	FBAOCKE 3.4A> 4.2A< 5.2C< 13.4B<> FBAOCLKO 3.4A> 4.2C< 13.1B<>	4.5C⇔ 5.4A⇔ 5.4D⇔ 5.5A⇔ 5.5D⇔ 13.2B⇔	4.5C⇔ 5.4A⇔ 5.4D⇔ 5.5A⇔ 5.5D⇔ 13.2B⇔	6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔ 13.2B⇔	
DACA_RSET 15.5F< DACA_R_F 17.1G<	FBAOCLKO* 3.4A> 4.2C< 13.1B↔ FBAOCLK1 3.4A> 5.2C< 13.1B↔	FBAD<26> 3.1A\$\times 3.1C\$\times 4.4A\$\times 4.4C\$\times 4.5A\$\times 4.5C\$\times 5.4A\$\times 5.5A\$\times 5.5A\$\times 5.5D\$\times	FBAD<63> 3.1A 3.1C 4.4A 4.5C 4.5C 5.4A 5.5A 5.5D 	FBBD<13> 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔ 6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔	
DACA_VDD 15.4F< DACA_VREF 15.5F<	FBAOCLK1* 3.4A> 5.2C< 13.1B⇔ FBAORAS* 3.3A> 4.1A< 5.1C< 13.3B⇔	13.2B\$ FBAD<27> 3.1A\$\iff 3.1C\$\iff 4.4A\$\iff 4.4C\$\iff 4.5A\$\iff 4.5A\$\iff 5.5A\$	13.28~ FBADQMO 3.2A~ 4.4B< 5.4B< 13.2B~	13.2B⇔ FBBD<14> 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔	
DACA_VSYNC_BUF 15.2H> 17.2A<	FBAOWE* 3.4A> 4.1A< 5.1C< 13.3B<>	4.5C⇔ 5.4A⇔ 5.4D⇔ 5.5A⇔ 5.5D⇔	FBADQM1 3.2A> 4.4B< 5.4B< 13.2B<>	6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔	4
DACB_BLUE 15.3E> 15.4F< 18.4A< 19.1G< DACB_BLUE_C 19.1G< 19.5D> 20.4B<	FBA1A<0> 3.3C> 4.1C< 5.1A< 13.3B<> FBA1A<120> 3.3C> 4.1C< 5.1A< 13.3B<>	13.2B⇔ FBAD<28> 3.1A⇔ 3.1C⇔ 4.4A⇔ 4.4C⇔ 4.5A⇔	FBADQM2 3.2A> 4.5B< 5.5B< 13.2B<> FBADQM3 3.2A> 4.5B< 5.5B< 13.2B<>	13.2B⇔ FBBD<15> 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔	
DACB_BLUE_SW 18.3D> 19.5A< DACB_B_F 19.1G<	FBA1A<130> 3.3C> 4.1C< 5.1A< 13.3B<> FBA1A<1> 3.3C> 4.1C< 5.1A< 13.3B<>	4.5C♦ 5.4D♦ 5.5D♦ 5.5D♦ 13.2B♦	FBADQM4 3.2C> 4.4D< 5.4D< 13.2B<> FBADQM5 3.2C> 4.4D< 5.4D< 13.2B<>	6.5D ◇ 7.4A ◇ 7.4C ◇ 7.5A ◇ 7.5C ◇ 13.2B ◇	
DACB_GREEN 15.3E> 15.4F< 18.4A< 19.1G< DACB_GREEN_C 19.1G< 19.4D> 20.4B<	FBA1A<2> 3.3C> 4.1C< 5.1A< 13.3B<> FBA1A<3> 3.3C> 4.1C< 5.1A< 13.3B<>	FBAD<29> 3.1A⇔ 3.1C⇔ 4.4A⇔ 4.4C⇔ 4.5A⇔ 4.5C⇔ 5.4A⇔ 5.4D⇔ 5.5A⇔ 5.5D⇔	FBADQM6 3.2C> 4.5D< 5.5D< 13.2B<> FBADQM7 3.2C> 4.5D< 5.5D< 13.2B<>	FBBD<16> 3.10<> 3.16<> 6.44<> 6.40<> 6.55< 6.50<> 7.44<> 7.50<> 7.50	
DACB_GREEN_SW 18.3D> 19.4A< DACB_G_F 19.1G<	FBA1A<4> 3.3C> 4.1C< 5.1A< 13.3B<> FBA1A<5> 3.3C> 4.1C< 5.1A< 13.3B<>	13.2B<> FBAD<30> 3.1A<> 3.1C<> 4.4A<> 4.4C<> 4.5A<>	FBADQSO 3.2A 4.4B 5.4B 13.3B FBADQS1 3.3A 4.4B 5.4B 13.3B	13.2B\$\times FBBD<17> 3.1D\$\times 3.1G\$\times 6.4A\$\times 6.4D\$\times 6.5A\$\times	
DACB_HSYNC_BUF 15.3H> 19.3A< DACB_HSYNC_C 19.3D> 20.5B<	FBA1A<6> 3.3C> 4.1C< 5.1A< 13.3B<> FBA1A<7> 3.3C> 4.1C< 5.1A< 13.3B<>	4.5C⇔ 5.4A⇔ 5.4D⇔ 5.5A⇔ 5.5D⇔ 13.2B⇔	FBADQS2 3.3A 4.5B 5.5B 13.3B FBADQS3 3.3A 4.5B 5.5B 13.3B	6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔ 13.2B⇔	
DACB_RED 15.3E> 15.4F< 18.3A< 19.1G< DACB_RED_C 19.1G< 19.3D> 20.4B<	FBA1A<8> 3.3C> 4.1C< 5.1A< 13.3B<> FBA1A<9> 3.3C> 4.1C< 5.1A< 13.3B<>	FBAD<31> 3.1A\$\times 3.1C\$\times 4.4A\$\times 4.4C\$\times 4.5A\$\times 4.5C\$\times 5.4A\$\times 5.5A\$\times 5.5A\$\times 5.5D\$\times	FBADQS4 3.2C 4.4D 5.4D 13.3B FBADQS5 3.3C 4.4D 5.4D 13.3B	FBBD<18> 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔ 6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔	
DACB_RED_SW 18.3D> 19.3A<	FBA1A<10> 3.3C> 4.1C< 5.1A< 13.3B<>	13.28⇔	FBADQS6 3.3C 4.5D 5.5D 13.3B →	13.2B⇔	
DACB_RGB_GND 19.5D> 20.5B< DACB_RSET 15.4F<	FBA1A<12> 3.3C> 4.1C< 5.1A< 13.3B↔	4.5C ◇ 5.4A ◇ 5.4D ◇ 5.5A ◇ 5.5D ◇	FBB0A<0> 3.3D> 6.1A< 7.1C< 13.3B<>	6.50⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔	
DACB_R_F 19.1G< DACB_VDD 15.4F<	FBA1BA0 3.3C> 4.2C< 5.2A< 13.4B⇔ FBA1BA1 3.3C> 4.2C< 5.2A< 13.4B⇔	13.2B↔ FBAD<33> 3.1A⇔ 3.1C⇔ 4.4A⇔ 4.4C⇔ 4.5A⇔	FBB04<120> 3.3D> 6.14< 7.1C< 13.3B<> FBB04<130> 3.3D> 6.14< 7.1C< 13.3B<>	13.2B⇔ FBBD<2O> 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔	
DACB_VREF 15.4F< DACB_VSYNC_BUF 15.3H> 19.2A<	FBAICAS* 3.3C> 4.1C< 5.1A< 13.4B<> FBAICKE 3.4C> 4.2C< 5.2A< 13.4B<>	4.5C⋄ 5.4A⋄ 5.4D⋄ 5.5A⋄ 5.5D⋄ 13.2B⋄	FBB0A<1> 3.3D> 6.1A< 7.1C< 13.3B<> FBB0A<2> 3.3D> 6.1A< 7.1C< 13.3B<>	6.50⋄ 7.41⋄ 7.40⋄ 7.51⋄ 7.50⋄ 13.28⋄	
DACB_VSYNC_C 19.2D> 20.4B< DVI_HPD 20.5A⇔ 26.2F<	FBAICLKO 3.4C> 5.2A< 13.2B↔ FBAICLKO* 3.4C> 5.2A< 13.2B↔	FBAD<34> 3.1A > 3.1C > 4.4A > 4.4C > 4.5A > 4.5C > 5.4A > 5.4D > 5.5A > 5.5D >	FBB0A<3> 3.3D> 6.1A< 7.1C< 13.3B<> FBB0A<4> 3.3D> 6.1A< 7.1C< 13.3B<>	FBBD<21> 3.10♦ 3.16♦ 6.40♦ 6.50♦ 6.50♦ 7.40♦ 7.40♦ 7.50♦	
DVOACLKIN 16.2B< 23.2A> DVOACLKOUT 16.3B> 23.2A<	FBAICLK1 3.4C> 4.2A< 13.2B<> FBAICLK1* 3.4C> 4.2A< 13.2B<>	13.2B<> FBAD<35> 3.1A<>3.1C<>4.4A<>4.4C<>4.5A<>	FBB0A<5> 3.3D> 6.1A< 7.1C< 13.3B<> FBB0A<6> 3.3D> 6.1A< 7.1C< 13.3B<>	13.2B⇔ FBBD<22> 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔	
DVOAD<0> 14.1A<> 16.1G< 16.4B<> 23.2A< DVOAD<110> 14.1A<> 16.1G< 16.4B<> 23.2A<	FBAIRAS* 3.3C> 4.1C< 5.1A< 13.4B<> FBAIWE* 3.4C> 4.1C< 5.1A< 13.4B<>	4.5C⇔ 5.4A⇔ 5.4D⇔ 5.5A⇔ 5.5D⇔ 13.2B⇔	FBB0A<7> 3.3D> 6.1A< 7.1C< 13.3B<> FBB0A<8> 3.3D> 6.1A< 7.1C< 13.3B<>	6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔ 13.2B⇔	5
DVOAD<230> 14.1A<> 16.1G< 16.4B<> 23.2A< DVOAD<1> 14.1A<> 16.1G< 16.4B<> 23.2A<	FBACS0* 3.4A> 4.1A< 4.1C< 13.4B<> FBACS1* 3.4C> 4.1A< 4.1C< 13.4B<>	FBAD<36> 3.1A 3.1C 4.4A 4.4C 4.5A 4.5C 5.4A 5.5A 5.5A 5.5D	FBB0A<9> 3.3D> 6.1A<7.1C<13.3B<> FBB0A<10> 3.3D> 6.1A<7.1C<13.3B<>	FBBD<23> 3.10⋄ 3.16⋄ 6.4A⋄ 6.4D⋄ 6.5A⋄ 6.50⋄ 7.4A⋄ 7.5A⋄ 7.5C⋄	
DVOAD<2> 14.1A 16.1G 16.4B 23.2A DVOAD<3> 14.1A 16.1G 16.4B 23.2A 23.2A 23.2A 23.2A 24.1A 16.1G 16.4B 23.2A	FBAD<0> 3.1A 3.1C 4.4A 4.4C 4.5A 5.4A 4.4C 4.5A 5.4B 5.5B 5.5B 5.5B 5.5B 5.5B 5.5B 5.5B	13.28\$	FBB0A<11> 3.3D> 6.1A< 7.1C< 13.3B<> FBB0A<12> 3.3D> 6.1A< 7.1C< 13.3B<>	13.2B<	NVIDIA CORPORATION
DVOAD<4> 14.1A<> 16.1G< 16.4B<> 23.2A<	4.5U<> 5.4U<> 5.5U<> 5.5U<>		FBB0BA0 3.3E> 6.2A< 7.2C< 13.4B<>		2701 SAN TOMAS EXPRESSWAY
			ASSEMBLY P172: NV35, 400/425, 128MB, DVI-I, VGA, T	V OUT, PCIID:0x331	SANTA CLARA, CA 95050, USA
ALL NVIDIA DESIGN SPECIFICATIONS. REFERENCE SPECIF	ICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LIS		PAGE DETAIL <edit detail="" here="" insert="" page="" to=""> LY, 'MATERIALS') ARE BEING PROVIDED 'AS IS'. THE MATERIALS</edit>	S MAY	NV_PN 602-10172-0001-000
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FBBD<24>	3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔ 6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔	FBBD<61> 3.1D ⇒ 3.1G ⇒ 6.4D ⇒ 6.5A ⇒ 6.5D ⇒ 7.4C ⇒ 7.5C ⇒ 7.5C ⇒	FBCD<10> 8.14⇔ 8.1C⇔ 9.44⇔ 9.40⇔ 9.54⇔ 9.5D⇔ 10.44⇔ 10.4D⇔ 10.5A⇔	FBCD<47> 8.1A ◇ 8.1C ◇ 9.4A ◇ 9.4D ◇ 9.5A ◇ 9.5D ◇ 10.4A ◇ 10.4D ◇ 10.5A ◇	FBD1CLKO* 8.4F> 12.2A< 13.2D↔ FBD1CLK1 8.4F> 11.2C< 13.2D↔	
FBBD<25>	13.28 3.10 3.10 3.10 6.50 7.40 7.50 7.50	13.28 FBBD<62> 3.10 3.16 6.40 6.50 7.40 7.40 7.50 7.50	10.50	10.50⇔ 13.20⇔ FBCD<48> 8.1A⇔ 8.1C⇔ 9.4A⇔ 9.4D⇔ 9.5A⇔ 9.50⊳ 10.4A⇔ 10.4D⇔ 10.5A⇔	FBDICK!* 8.45 11.2C 13.2D ← FBDIRAS* 8.35 11.1C 12.1A ← FBDIME* 8.45 11.1C 12.1A ← 13.4D ←	
FBBD<26>	13.2B⇔ 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔	13.28\$ FBBD<63> 3.10\$\times 3.16\$\times 6.4A\$\times 6.4D\$\times 6.5A\$\times	10.5D⇔ 13.2D⇔ FBCD<12> 8.1A⇔ 8.1C⇔ 9.4A⇔ 9.4D⇔ 9.5A⇔	10.50⇔ 13.20⇔ FBCD<49> 8.14⇔ 8.10⇔ 9.40⇔ 9.54⇔	FBDCS0* 8.4E> 11.1A< 11.1C< 13.4D FBDCS1* 8.4F> 11.1A< 11.1C< 12.1A< 13.4D	
FBBD<27>	6.5D ◇ 7.4A ◇ 7.4C ◇ 7.5A ◇ 7.5C ◇ 13.2B ◇ 3.1D ◇ 3.1G ◇ 6.4A ◇ 6.4D ◇ 6.5A ◇	6.50⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔ 13.2B⇔ FBBDQMO 3.2E⇒ 6.4B< 7.4B< 13.2B⇔	9.50 ~ 10.4A ~ 10.40 ~ 10.5A ~ 10.5D ~ 13.2D ~ 14.4 ~ 9.4D ~ 9.5A ~ 14.4 ~ 10.4D ~ 10.5D ~ 10.	9,50\in 10.4A\in 10.40\in 10.5A\in 10.5D\in 13.2D\in 13.2D\in FBCD<50\in 8.1A\in 8.1C\in 9.4A\in 9.4D\in 9.5A\in \in 10.5D\in 1.4D\in 10.5D\in 13.2D\in 13.2	FBD0<0> 8.10<> 8.14<0 11.40 11.50 12.40 11.50 12.50 12.40 12.54 12.50 13.20	
1000×27×	6.5D > 7.4A > 7.4C > 7.5A > 7.5C > 13.2B >	FBBQQM2 3.2E> 6.4B< 7.4B< 13.2E> FBBQQM2 3.2E> 6.5B< 7.5B< 13.2B>	9.50 > 10.40 > 10.40 > 10.54 > 10.50 >	9.50> 10.40> 10.40> 10.50> 10.50> 10.50> 13.20>	F800<630> 8.10< 8.10< 11.40< 11.40< 11.40<	
FBBD<28>	3.1D ⇒ 3.1G ⇔ 6.4A ⇔ 6.4D ⇔ 6.5A ⇔ 6.5D ⇔ 7.4A ⇔ 7.4C ⇔ 7.5A ⇔ 7.5C ⇔ 13.2B ⇔	FBBDQM3 3.2E> 6.5E< 7.5E< 13.2E<> FBBDQM4 3.2F> 6.4D< 7.4D< 13.2E<> FBBDQM5 3.2F> 6.4D 7.4D< 13.3E>	FBCD<14> 8.1A<> 8.1C< 9.4A<> 9.4D<> 9.5A<> 9.5D<\table 10.4A<\table 10.4D<\table 10.5A<\table 10.5D<\table 13.2D<\table 13.2D<\table 13.2D<\table 13.2D	FBC0<51> 8.1A<> 8.1C<> 9.4A<> 9.4D<> 9.5A< 9.5D<> 10.4A<> 10.4D<> 10.5A< 10.5D<> 13.2D<	12.54⇔ 12.50⇔ 13.20⇔ FBDD<1> 8.10⇔ 8.16⇔ 11.44⇔ 11.40⇔ 11.54⇒ 11.50⇔ 12.44⇔ 12.40⇔	
FBBD<29>	3.10 \$\times 3.16 \$\left 6.4A \$\left 6.4D \$\left 6.5A \$\left 6.5D \$\left 7.4A \$\left 7.5A \$\left 7.5C \$\left \$\left 5.5A \$\left 7.5C \$\left 5.5A \$\lef	FBBDQM6 3.2F> 6.5D< 7.5D< 13.3B> FBBDQM7 3.2F> 6.5D< 7.5D< 13.3B>	FBCD<15> 8.14 8.10 9.44 9.40 9.54 9.54 9.50 10.40 10.54	FBCD<52> 8.1A \lefta 8.1C \lefta 9.4A \lefta 9.4D \lefta 9.5A \lefta 9.5D \lefta 10.4A \lefta 10.4D \lefta 10.5A \lefta	11.36< 11.30< 11.30< 12.40 12.56<> 12.50<> 13.20 FB00<≥> 8.10<> 8.16<> 11.44<> 11.40 	
FBBD<30>	13.2B 3.1D 3.1G 6.4A 6.5D 7.4A 7.4C 7.5C	FBBD0S0 3.2E<>-6.4B<>-7.4B<>-13.3B<>-7.4B<>-13.3B -7.4B< -13.3B -7.4B</-7.4B</-7.4B</-7.4B</-7.4B</-7.4B</-7.4B</-7.4B</-7.4B</</td <td>10.50⇔ 13.20⇔ FBCD<16> 8.14⇔ 8.1C⇔ 9.44⇔ 9.40⇔ 9.54⇔</td> <td>10.50 ⇔ 13.20 ⇔ FBCD<53> 8.14 ⇔ 8.10 ⇔ 9.44 ⇔ 9.40 ⇔ 9.54 ⇔</td> <td>11.5A\diamond 11.5D\diamond 12.4A\diamond 12.4D\diamond 12.5D\diamond 3.2D\diamond 8.1D\diamond 8.1D\diamond 8.1D\diamond 11.4A\diamond 11.4D\diamond</td> <td></td>	10.50⇔ 13.20⇔ FBCD<16> 8.14⇔ 8.1C⇔ 9.44⇔ 9.40⇔ 9.54⇔	10.50 ⇔ 13.20 ⇔ FBCD<53> 8.14 ⇔ 8.10 ⇔ 9.44 ⇔ 9.40 ⇔ 9.54 ⇔	11.5A \diamond 11.5D \diamond 12.4A \diamond 12.4D \diamond 12.5D \diamond 3.2D \diamond 8.1D \diamond 8.1D \diamond 8.1D \diamond 11.4A \diamond 11.4D \diamond	
FBBD<31>	13.28\$\times 3.16\$\times 6.48\$\times 6.58\$\times 6.48\$\times 6.58\$\times 6.58\$	FBBUQS2 3.3E⇔ 6.5B⇔ 7.5B⇔ 13.3B⇔ FBBUQS3 3.3E⇔ 6.5B⇔ 7.5B⇔ 13.3B⇔ FBBUQS4 3.2F⇔ 6.4D⇔ 7.4D⇔ 13.3B⇔	9.50 ~ 10.4A ~ 10.40 ~ 10.5A ~ 10.50 ~ 13.50 ~ 13.20 ~ 13.50 ~ 13.20 ~ 13.50 ~	9,50	FBD0<3> 8.10⇔ 8.16⇔ 11.4k⇔ 11.40⇔ 11.5k→ 11.50⇔ 12.4k⇔ 12.40⇔ 12.5k→ 12.50⇒ 13.20⇔	
	6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔ 13.2B⇔	FBBDQS5 3.3F	9.5D	9.5D⇔ 10.4A⇔ 10.4D⇔ 10.5A⇔ 10.5D⇔ 13.2D⇔	FBDD<4> 8.1D<> 8.1G<> 11.4A<> 11.4D<> 11.4D<> 11.5A<> 11.5D<> 12.4A<> 12.4D<> 12.4D<> 11.5D<> 12.4A<> 12.4D<> 11.5D<> 12.4D<>	
FBBD<32>	3.10 ◇ 3.16 ◇ 6.4A ◇ 6.40 ◇ 6.5A ◇ 6.5D ◇ 7.4A ◇ 7.4C ◇ 7.5A ◇ 7.5C ◇ 13.2B ◇	FBBDQ57 3.3F ◇ 6.5D ◇ 7.5D ◇ 13.3B ◇ FBBVREF 3.5B ◇ 13.5D ◇ FBCQA <d> 8.3A > 9.1A < 10.1C < 13.3D ◇</d>	FBCD<18> 8.1A \Leftrightarrow 8.1C \Leftrightarrow 9.4A \Leftrightarrow 9.4D \Leftrightarrow 9.5A \Leftrightarrow 9.5D \Leftrightarrow 10.4A \Leftrightarrow 10.4D \Leftrightarrow 10.5A \Leftrightarrow 10.5D \Leftrightarrow 13.2D \Leftrightarrow	FBCD<55> 8.1A \diamond 8.1C \diamond 9.4A \diamond 9.4D \diamond 9.5A \diamond 9.5D \diamond 10.4A \diamond 10.4D \diamond 10.5A \diamond 10.5D \diamond 13.2D \diamond	12,540~12,500~13,200 FBDD<\$> 8.160~8.160~11,400~11,400 11,540~11,500~12,440~12,400	
FBBD<33>	3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔ 6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔	FBCOA<120> 8.3A> 9.1A< 10.1C< 13.3D⇔ FBCOA<130> 8.3A> 9.1A< 10.1C< 13.3D⇔	FBCD<19> 8.1A⇔ 8.1C⇔ 9.4A⇔ 9.4D⇔ 9.5A⇔ 9.5D⇔ 10.4A⇔ 10.4D⇔ 10.5A⇔	FBCD<56> 8.1A ○ 8.1C ○ 9.4A ○ 9.4D ○ 9.5A ○ 9.5D ○ 10.4A ○ 10.4D ○ 10.5A ○	12.5A⇔ 12.5D⇔ 13.2D⇔ FB0D<6> 8.1D⇔ 8.1G⇔ 11.4A⇔ 11.4D⇔	
FBBD<34>	13.2B 3.1D 3.1G 6.4A 6.5D 7.4A 7.5C 7.5C	FBC0A<1> 8.3A> 9.1A< 10.1C< 13.30⇔ FBC0A<2> 8.3A> 9.1A< 10.1C< 13.30⇔ FBC0A<3> 8.3A> 9.1A< 10.1C< 13.30⇔	10.50	10.5D	11.5A > 11.5D > 12.4A > 12.4D > 12.5D > 12.5D > 13.2D > 5.5D > 13.2D > 5.5D > 13.2D > 5.5D > 13.4D > 5.5D > 13.4D > 5.5D	
FBBD<35>	13.2B⇔ 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔	FBC0A<4> 8.3A> 9.1A< 10.1C< 13.3D<> FBC0A<5> 8.3A> 9.1A< 10.1C< 13.3D<>	10.5D \ightharpoonup 13.2D \ightharpoonup FBCD \leq21 \ightharpoonup 8.1A \ightharpoonup 8.4A \ightharpoonup 9.4A \ightharpoonup 9.5A \ightharpoon	10.5D ⇔ 13.2D ⇔ FBCD < 58> 8.1A ⇔ 8.1C ⇔ 9.4A ⇔ 9.4D ⇔ 9.5A ⇔	11.5A⇔ 11.5D⇔ 12.4A⇔ 12.4D⇔ 12.5A⇔ 12.5D⇔ 13.2D⇔	
FBBD<36>	6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔ 13.2B⇔ 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔	F8C0A<6> 8.3A> 9.1A< 10.1C< 13.3D⇔ F8C0A<7> 8.3A> 9.1A< 10.1C< 13.3D⇔ F8C0A<8> 8.3A> 9.1A< 10.1C< 13.3D⇔	9.5D > 10.4A > 10.4D > 10.5A > 10.5D > 13.2D FBCD<22 8.1A > 8.1C > 9.4D > 9.5A > 15.5D	9.5D⇔ 10.4A⇔ 10.4D⇔ 10.5A⇔ 10.5D⇔ 13.2D⇔ FBCD<59> 8.1A⇔ 8.1C⇔ 9.4A⇔ 9.4D⇔ 9.5A⇔	FBD0<8> 8.10 ◇ 8.16 ◇ 11.44 ◇ 11.40 △ 11.54 ◇ 11.50 △ 12.44 ◇ 12.40 △ 12.54 ◇ 12.50 △ 13.20 △	
7000/302	3.10	FBCDA<0> 8.3A> 9.1A< 10.1C< 13.3D⇔ FBCDA<10> 8.3A> 9.1A< 10.1C< 13.3D⇔ FBCDA<10> 8.3A> 9.1A< 10.1C< 13.3D⇔	9.50⇔ 10.4A⇔ 10.40⇔ 10.5A⇔ 10.50⇔ 13.20⇔	9.10< 9.46< 9.40< 9.56< 9.50< 10.46< 10.40< 10.56< 10.50< 11.20<	12.5Ac> 12.50bc 13.20bc FB0D<9> 8.10c> 8.10c> 11.4Ac> 11.4Dc> 11.5Ac> 11.5Dc> 12.4Ac> 12.4Dc>	
FBBD<37>	3.1D \(\phi \) 3.16 \(\phi \) 6.4A \(\phi \) 6.4D \(\phi \) 6.5A \(\phi \) 6.5D \(\phi \) 7.4A \(\phi \) 7.5A \(\phi \) 7.5C \(\phi \)	FBC0A<11> 8.3A> 9.1A< 10.1C< 13.3D<> FBC0A<12> 8.3A> 9.1A< 10.1C< 13.3D<>	FBCD<23> 8.1A⇔ 8.1C⇔ 9.4A⇔ 9.4D⇔ 9.5A⇔ 9.5D⇔ 10.4A⇔ 10.4D⇔ 10.5A⇔	FBCD<60> 8.1A⇔ 8.1C⇔ 9.4A⇔ 9.4D⇔ 9.5A⇔ 9.5D⇔ 10.4A⇔ 10.4D⇔ 10.5A⇔	12.5A⇔ 12.5D⇔ 13.2D⇔ F8DD<10> 8.1D⇔ 8.1G⇔ 11.4A⇔ 11.4D⇔	
FBBD<38>	13.2B 3.1D 3.1G 6.4A 6.5D 7.4A 7.4C 7.5C	FBC0BA0 8.3A> 9.2A< 10.2C< 13.4D⇔ FBC0BA1 8.3A> 9.2A< 10.2C< FBC0CA5* 8.4A> 9.1A< 10.1C< 13.3D⇔	10.50	10.5D< 13.2D FBCD<61> 8.1A 8.1C 9.4D 9.5D 10.4A 10.4D 10.5A 	11.5A⇔ 11.5D⇔ 12.4A⇔ 12.4D⇔ 12.5A⇔ 12.5D⇔ 13.2D⇔ FBDD<11> 8.1D⇔ 8.1G⇔ 11.4A⇔ 11.4D⇔	
FBBD<39>	13.2B⇔ 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔	FBCOCKE 8.4A> 9.2A< 10.2C< 13.3D<> FBCOCLKO 8.4A> 9.2A< 13.1D<>	10.5D \iop 13.2D \iop FBCD<25> 8.1A \iop 8.1C \iop 9.4A \iop 9.4D \iop 9.5A \iop	10.5D \$\infty\$ 13.2D \$\infty\$ FBCD \$<62 > 8.1A \$\infty\$ 8.1C \$\infty\$ 9.4D \$\infty\$ 9.5A \$\infty\$	11.5A⇔ 11.5D⇔ 12.4A⇔ 12.4D⇔ 12.5A⇔ 12.5D⇔ 13.2D⇔	
FBBD<40>	6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔ 13.2B⇔ 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔	FBCOCLKI* 8.4A> 9.2A< 13.1D<> FBCOCLKI 8.4A> 10.2C< 13.1D<> FBCOCLKI* 8.4A> 10.2C< 13.1D<>	9.5D ~ 10.4A ~ 10.4D ~ 10.5A ~ 10.5D ~ 13.2D ~ FBCD < 26 ~ 8.1A ~ 8.1C ~ 9.4A ~ 9.4D ~ 9.5A ~	9.50 \in 10.44 \in 10.40 \in 10.54 \in 10.54 \in 10.54 \in 10.55 \in \tag{10.50 \in 13.20 \in \tag{10.50 \in 13.20 \in \tag{10.50 \in 14.00 \in 14.00 \in 14.00 \in 15.00 \in \tag{10.50 \in 14.00 \in 14.00 \in 15.00 \in \tag{10.50 \in 14.00 \in 15.00 \in \tag{10.50 \in 15.00 \in 15.00 \in 15.00 \in 15.00 \in \tag{10.50 \in 15.00 \in 15.00 \in 15.00 \in 15.00 \in 15.00 \in \tag{10.50 \in 15.00 \in 15.00 \in 15.00 \in 15.00 \in \tag{10.50 \in 15.00 \in 15.00 \in 15.00 \in 15.00 \in \tag{10.50 \in 15.00 \in 15.00 \in 15.00 \in 15.00 \in \tag{10.50 \in 15.00 \	FBD0<12> 8.10⇔ 8.16⇔ 11.44∞ 11.40⇔ 11.54∞ 11.50⇔ 12.44∞ 12.40⇔ 12.54∞ 12.50∞ 13.20⇔	
r000>4U>	3.10	FBCORAS* 8.3A> 9.1A< 10.1C< 13.3D< 13.4D> FBCORAS* 8.3A> 9.1A< 10.1C< 13.3D< 13.4D>	FBUN-2b> 8.1A⇔ 8.1C⇔ 9.4A⇔ 9.4D⇔ 9.5A⇔ 9.5D⇔ 10.4A⇒ 10.4D⇔ 10.5A⇔ 10.5D⇔ 13.2D⇔	9.10< 9.14<> 9.40< 9.54<> 9.40< 9.54<> 9.50< 10.44<> 10.40<> 10.54<< 10.40<> 10.50< 13.20<	12.5Ac> 12.50b> 13.20b FB0D<13> 8.10c> 8.16c> 11.4Ac> 11.4Dc> 11.5Ac> 11.5Dc> 12.4Ac> 12.4Dc>	
FBBD<41>	3.1D ◇ 3.1G ◇ 6.4A ◇ 6.4D ◇ 6.5A ◇ 6.5D ◇ 7.4A ◇ 7.4C ◇ 7.5A ◇ 7.5C ◇	FBC1A<0> 8.3C> 9.1C< 10.1A< 13.3D<> FBC1A<120> 8.3C> 9.1C< 10.1A< 13.3D<>	FBCD<27> 8.1A⇔ 8.1C⇔ 9.4A⇔ 9.4D⇔ 9.5A⇔ 9.5D⇔ 10.4A⇔ 10.4D⇔ 10.5A⇔	FBCDQMO 8.2A> 9.4B< 10.4B< 13.2D<> FBCDQM1 8.2A> 9.4B< 10.4B< 13.2D<>	12.5A⇔ 12.5D⇔ 13.2D⇔ FBDD<14> 8.1D⇔ 8.1G⇔ 11.4A⇔ 11.4D⇔	
FBBD<42>	13.2B⇔ 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔ 6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔	FBC1A<13. 0> 8.3C> 9.1C< 10.1A< 13.30⇔ FBC1A<1> 8.3C> 9.1C< 10.1A< 13.30⇔ FBC1A<2> 8.3C> 9.1C< 10.1A< 13.30⇔	10.50	FBCDDM2 8.2A> 9.5B< 10.5B< 13.2D<> FBCDDM3 8.2A> 9.5B< 10.5B< 13.2D<> FBCDDM4 8.2C> 9.4D< 10.4D< 13.2D<>	11.5A> 11.5B> 12.4A> 12.4B> 12.5A> 12.5D> 13.2D> FBDD<15> 8.1D> 8.1G> 11.4A> 11.4D>	
FBBD<43>	13.2B⇔ 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔	FBC1A<3> 8.3C> 9.1C< 10.1A< 13.3D<> FBC1A<4> 8.3C> 9.1C< 10.1A< 13.3D<>	10.5D \ightarrow 13.2D \ightarrow FBCD<29 \ightarrow 8.1A \ightarrow 8.1C \ightarrow 9.4D \ightarrow 9.5A \ightarrow 9.5D \igh	FBCDQM5 8.2C> 9.4D< 10.4D< 13.2D<> FBCDQM6 8.2C> 9.5D< 10.5D< 13.2D<>	11.5A⇔ 11.5D⇔ 12.4A⇔ 12.4D⇔ 12.5A⇔ 12.5D⇔ 13.2D⇔	
FBBD<44>	6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔ 13.2B⇔ 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔	FBC1A<5> 8.3C> 9.1C< 10.1A< 13.30⇔ FBC1A<6> 8.3C> 9.1C< 10.1A< 13.30⇔ FBC1A<7> 8.3C> 9.1C< 10.1A< 13.30⇔	9.5D ~ 10.4A ~ 10.4D ~ 10.5A ~ 10.5D ~ 13.2D ~ FBCD < 3D ~ 8.1A ~ 8.1C ~ 9.4A ~ 9.4D ~ 9.5A ~	FBC00M7 8.2C> 9.5D< 10.5D< 13.2D<> FBC00S0 8.2A<> 9.4B<> 10.4B<> 13.3D<> FBC00S1 8.3A<> 9.4B<> 10.4B<> 13.3D<>	FBD0<16> 8.10⇔ 8.1,4k → 11.40⇔ 11.5k → 11.50 → 12.4k → 12.40⇔ 12.5k → 12.50 → 13.20⇔	
	6.5D ◇ 7.4A ◇ 7.4C ◇ 7.5A ◇ 7.5C ◇ 13.2B ◇	FBC1A<8> 8.3C> 9.1C< 10.1A< 13.3D<> FBC1A<9> 8.3C> 9.1C< 10.1A< 13.3D<>	9.5D ⇒ 10.4A ⇒ 10.4D ⇒ 10.5A ⇒ 10.5D ⇒ 13.2D ⇒	FBCDQS2 8.3A	FBDD<17> 8.1D⇔ 8.1G⇔ 11.4A⇔ 11.4D⇔ 11.5D⇔ 12.4B⇔ 12.4D⇔	
FBBD<45>	3.1D ⇔ 3.16 ⇔ 6.4A ⇔ 6.4D ⇔ 6.5A ⇔ 6.5D ⇔ 7.4A ⇔ 7.4C ⇔ 7.5A ⇔ 7.5C ⇔	FBC1A<10> 8.3C> 9.1C< 10.1A< 13.3D⇔ FBC1A<1> 8.3C> 9.1C< 10.1A< 13.3D⇔ FBC1A<1> 8.3C> 9.1C< 10.1A< 13.3D⇔	FBCD<31> 8.1A 8.1A 9.4A 9.5A 9.5D 10.6A 10.10 10.5A	FBCDQS4 8.2C⇔ 9.4D⇔ 10.4D⇔ 13.3D⇔ FBCDQS5 8.3C⇔ 9.4D⇔ 10.4D⇔ 13.3D⇔ FBCDQS6 8.3C⇔ 9.6D⇔ 10.6D⇔ 13.3D⇔	12.54 \$\sigma 12.50 \$\sigma 13.20 \$\sigma 18.10 \$\sigma 1.6 \$\sigma 11.44 \$\sigma 11.40 \$\sigma 12.40 \$\sigma 12.4	
FBBD<46>	13.2B⇔ 3.1D⇔ 3.16⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔ 6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔	FBC1A-12> 8.3C> 9.1C< 10.1A< 13.3D⇔ FBC1BA0 8.3C> 9.2C< 10.2A< 13.4D⇔ FBC1BA1 8.3C> 9.2C< 10.2A< 13.4D⇔	10.50 \diamond 13.20 \diamond 10.50 \diamond 13.20 \diamond 10.50 \diamond 13.20 \diamond 9.40 \diamond 9.50 \diamond 9.40 \diamond 9.50 \diamond 10.40 \diamond 10.50 \diamond 10.50 \diamond	FBC00S6 8.3C 9.5D 10.5D 13.3D FBC00S7 8.3C 9.5D 10.5D 13.3D FB00A<0 8.3D 11.1A 12.1C 13.3D FB00A 12.5D 11.1A 12.1C 13.3D FB00A 12.5D 13.5D 11.5D 13.5D FB00A 12.5D 13.5D 13.5D 13.5D FB00A 12.5D 13.5D 13.5	11.5A⇔ 11.5D⇔ 12.4A⇔ 12.4D⇔ 12.5A⇔ 12.5D⇔ 13.2D⇔ FBDD<19> 8.1D⇔ 8.1G⇔ 11.4A⇔ 11.4D⇔	
FBBD<47>	13.2B⇔ 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔	FBC1CAS* 8.4C> 9.1C< 10.1A< 13.4D<> FBC1CKE 8.4C> 9.2C< 10.2A< 13.4D<>	10.5D⇔ 13.2D⇔ FBCD<33> 8.1A⇔ 8.1C⇔ 9.4A⇔ 9.4D⇔ 9.5A⇔	FB004<120> 8.30> 11.1A< 12.1C< 13.30⇔ FB004<130> 8.30> 11.1A< 12.1C< 13.30⇔	11.5A⇔ 11.5D⇔ 12.4A⇔ 12.4D⇔ 12.5A⇔ 12.5D⇔ 13.2D⇔	
FBBD<48>	6.5D ◇ 7.4A ◇ 7.4C ◇ 7.5A ◇ 7.5C ◇ 13.2B ◇ 3.1D ◇ 3.1G ◇ 6.4A ◇ 6.4D ◇ 6.5A ◇	FBCICLK0 8.4C> 10.2A< 13.10⇔ FBCICLK0* 8.4C> 10.2A< 13.2D⇔ FBCICLK1 8.4C> 9.2C< 13.2D⇔	9.50 ~ 10.4A ~ 10.40 ~ 10.5A ~ 10.50 ~ 13.50 ~	FB00A<1> 8.30> 11.1A<12.1C<13.30> FB00A<2> 8.30> 11.1A<12.1C<13.30< FB00A<3> 8.30> 11.1A<12.1C<13.30<	FBD0<20> 8.10<> 8.14<> 11.40 11.50 11.50 12.50 12.50 12.50 12.50 13.20	
	6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔ 13.2B⇔	FBC1CLK1* 8.4C> 9.2C< 13.2D<> FBC1RAS* 8.3C> 9.1C< 10.1A<	9.5D⇔ 10.4A⇔ 10.4D⇔ 10.5A⇔ 10.5D⇔ 13.2D⇔	FBD0A<4> 8.3D> 11.1A< 12.1C< 13.3D<> FBD0A<5> 8.3D> 11.1A< 12.1C< 13.3D<>	FBDD<21> 8.1D<> 8.1G<> 11.4A<> 11.4D	
FBBD<49>	3.1D ⇔ 3.1G ⇔ 6.4A ⇔ 6.4D ⇔ 6.5A ⇔ 6.5D ⇔ 7.4A ⇔ 7.4C ⇔ 7.5A ⇔ 7.5C ⇔ 13.2B ⇔	FBCLNE* 8.4C> 9.1C< 10.1A< 13.4D<> FBCCS0* 8.4A> 9.1A< 9.1C< 10.1A< 13.4D<> FBCCS1* 8.4C> 9.1A< 9.1C< 10.1A< 13.4D<	FBCD<35> 8.1A<> 8.1C< 9.4A<> 9.4D<> 9.5A<> 9.5D< 10.4A<> 10.4D<> 10.5A<> 10.5D<> 13.2D<	FBD0A<6> 8.30> 11.1A< 12.1C< 13.30<> FBD0A<7> 8.30> 11.1A< 12.1C< 13.30<> FBD0A<8> 8.30> 11.1A< 12.1C< 13.30<>	12.5A⇔ 12.5D⇔ 13.2D⇔ FBDD<2Z> 8.1D⇔ 8.1G⇔ 11.4A⇔ 11.4D⇔ 11.5A⇔ 11.5D⇔ 12.4A⇔ 12.4D⇔	
FBBD<50>	3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔ 6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔	FBCD<0> 8.1A⇔ 8.1C⇔ 9.4A⇔ 9.4D⇔ 9.5A⇔ 9.5D⇔ 10.4A⇔ 10.4D⇔ 10.5A⇔	FBCD<36> 8.1A	FB00A<9> 8.3D> 11.1A< 12.1C< 13.3D<> FB00A<10> 8.3D> 11.1A< 12.1C< 13.3D<>	12.5A⇔ 12.5D⇔ 13.2D⇔ FBDD<23> 8.1D⇔ 8.1G⇔ 11.4A⇔ 11.4D⇔	
FBBD<51>	13.2B⇔ 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔ 6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔	10.5D⇔ 13.2D⇔ FBCD<630> 8.1A⇔ 8.1C⇔ 9.4A⇔ 9.4D⇔ 9.5A⇔ 9.5D⇔ 10.4A⇔ 10.4D⇔ 10.5A⇔	10.50<> 13.20 FBCD<37> 8.16<> 8.16 9.46 9.50 10.46 10.40 10.56	FB00A<11> 8.30> 11.1A< 12.1C< 13.30> FB00A<12> 8.30> 11.1A< 12.1C< 13.30> FB00BA0 8.3E> 11.2A< 12.2C<	11.54\infty 11.50\infty 12.44\infty 12.40\infty 12.54\infty 12.50\infty 3.20\infty FBDD<24\infty 8.16\infty 11.44\infty 11.40\infty	
FBBD<52>	6.5U♦ 7.44♦ 7.4U♦ 7.54♦ 7.5U♦ 13.2B♦ 3.1D♦ 3.1G♦ 6.4A♦ 6.4D♦ 6.5A♦	9.50 10.48 10.40 10.58 10.50 13.20	9.50<>10.48<>10.49<>10.59<>10.59<>10.50<>13.20 FBCD<38> 8.16 9.48 9.40 9.58	FBDUBAU 8.3E> 11.2A< 12.2C< FBD0BA1 8.3E> 11.2A< 12.2C< FBD0CAS* 8.4E> 11.1A< 12.1C< 13.4D<>	11.58 > 11.48 > 11.44 > 11.40 > 12.40 > 11.50 > 12.50 > 12.50 > 12.50 > 13.20 > 13.20	
	6.5D ◇ 7.4A ◇ 7.4C ◇ 7.5A ◇ 7.5C ◇ 13.2B ◇	9.5D ⇒ 10.4A ⇒ 10.4D ⇒ 10.5A ⇒ 10.5D ⇒ 13.2D ⇒	9.5D⇔ 10.4A⇔ 10.4D⇔ 10.5A⇔ 10.5D⇔ 13.2D⇔	FBDOCKE 8.4E> 11.2A< 12.2C< 13.4D↔ FBDOCLKO 8.4E> 11.2A< 13.2D↔	F800<25> 8.10 8.10 8.15 11.5A 11.50 12.4A 12.10 <p< td=""><td></td></p<>	
FBBD<53>	3.10 ◇ 3.16 ◇ 6.44 ◇ 6.40 ◇ 6.54 ◇ 6.50 ◇ 7.44 ◇ 7.40 ◇ 7.54 ◇ 7.50 ◇ 13.28 ◇	FBCD<2> 8.1A⇔ 8.1C⇔ 9.4A⇔ 9.4D⇔ 9.5A⇔ 9.5D⇔ 10.4A⇔ 10.4D⇔ 10.5A⇔ 10.5D⇔ 13.2D⇔	FBCD<39> 8.1A<> 8.1C< 9.4A<> 9.4D<> 9.5A<> 9.5D<> 10.4A<> 10.4D<> 10.5A<> 10.5D<> 13.2D<> 10.4D<> 10.5A<> 10.5D<> 10.5	FBDOCLKI* 8.4E> 11.2A< 13.2D<> FBDOCLKI* 8.4E> 12.2C< 13.2D<> FBDOCLKI* 8.4E> 12.2C< 13.2D<>	12.5A⇔ 12.5D⇔ 13.2D⇔ FBDD<26> 8.1G⇔ 8.1G⇔ 11.4A⇔ 11.4D⇔ 11.5A⇔ 11.5D⇔ 12.4A⇔ 12.4D⇔	
FBBD<54>	3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔ 6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔	FBCD<3> 8.1A \Leftrightarrow 8.1C \Leftrightarrow 9.4A \Leftrightarrow 9.4D \Leftrightarrow 9.5A \Leftrightarrow 9.5D \Leftrightarrow 10.4A \Leftrightarrow 10.4D \Leftrightarrow 10.5A \Leftrightarrow	FBCD<40> 8.1A<> 8.1C<> 9.4A<> 9.4D<> 9.5A< 9.5D<> 10.4A<> 10.4D<> 10.5A<	FBDORAS* 8.3E> 11.1A< 12.1C< 13.4D↔ FBDOWE* 8.4E> 11.1A< 12.1C< 13.4D↔	12.5A⇔ 12.5D⇔ 13.2D⇔ FBDD<27> 8.1D⇔ 8.1G⇔ 11.4A⇔ 11.4D⇔	
FBBD<55>	13.2B⇔ 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔ 6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔	10.50~ 13.20~ 8.1A~ 8.1C~ 9.4A~ 9.4D~ 9.5A~ 9.5D~ 10.4A~ 10.4D~ 10.5A~	10.50 > 13.20 > FBCD<41> 8.1A > 8.1C > 9.4A > 9.4D > 9.5A > 9.5D > 10.4A > 10.40 > 10.5A >	FB01A<120> 8.3G> 11.1C< 12.1A< 13.3D<> FB01A<120> 8.3G> 11.1C< 12.1A< 13.3D<> FB01A<130> 8.3G> 11.1C< 12.1A< 13.3D<>	11.58 11.50 12.48 12.40 12.50 12.50 13.20 FBDD<28> 8.10 8.16 11.40 14	
FBBD<56>	13.2B⇔ 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔	9.500 13.200 10.500 10.500 10.500 10.500 13.200 FBCD<	9.50< 10.48> 10.40> 10.59< 10.50> 13.20> FBCD<42> 8.14> 8.1C> 9.4A> 9.4D> 9.5A>	FBD1A<1> 8.3G> 11.1C< 12.1A< 13.3D<> FBD1A<2> 8.3G> 11.1C< 12.1A< 13.3D<>	11.5A > 1.10 > 11.40 > 12.40 > 12.40 > 11.5A > 12.5A > 12.5D > 13.2D > 12.5A > 12.5D > 13.2D >	
FBBD<57>	6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔ 13.2B⇔ 3.1D⇔ 3.16⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔	9.50<> 10.48<> 10.40<> 10.50<> 13.20<> 10.50<> 13.40<> 9.48<> 9.50<> 9.50<> 10.50 </td <td>9.50 \leftarrow 10.40 \leftarrow 10.50 \leftarrow 10.50 \leftarrow 13.20 \leftarrow 13.20 \leftarrow 13.20 \leftarrow 13.20 \leftarrow 13.10 \leftarrow 13.20 \</td> <td>FBD1A<3> 8.36> 11.10< 12.1A< 13.3D<> FBD1A<4> 8.36> 11.1C< 12.1A< 13.3D<> FBD1A<5> 8.36> 11.1C< 12.1A< 13.3D<></td> <td>FBD0<29> 8.10<> 8.16<> 11.4A<> 11.40<> 11.50<> 12.4A<> 12.40<> 12.50<> 12.5A<> 11.50<> 12.4A<> 12.50<> 12.40<> 12.50<> 12.50<></td> <td></td>	9.50 \leftarrow 10.40 \leftarrow 10.50 \leftarrow 10.50 \leftarrow 13.20 \leftarrow 13.20 \leftarrow 13.20 \leftarrow 13.20 \leftarrow 13.10 \leftarrow 13.20 \	FBD1A<3> 8.36> 11.10< 12.1A< 13.3D<> FBD1A<4> 8.36> 11.1C< 12.1A< 13.3D<> FBD1A<5> 8.36> 11.1C< 12.1A< 13.3D<>	FBD0<29> 8.10<> 8.16<> 11.4A<> 11.40<> 11.50<> 12.4A<> 12.40<> 12.50<> 12.5A<> 11.50<> 12.4A<> 12.50<> 12.40<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<> 12.50<>	
**************************************	3.10	9.50 ≤ 10.40 ≤ 10.40 ≤ 10.54 ≤ 10.50 ≤ 10.50 ≤ 10.40 ≤ 10.50	#BUP44> B.1A⇔ B.1C⇔ 9.4B⇔ 9.5B⇔ 9.5D⇔ 10.4B⇔ 10.5B⇔ 10.5D⇔ 13.2D⇔ 13.2D⇔	FB01A<6> 8.36> 11.10< 12.1A<13.30< FB01A<6> 8.36> 11.10< 12.1A<13.30< FB01A<7> 8.36> 11.10< 12.1A<13.30<	12.5Ac> 12.50b> 13.20b FB0D<30> 8.10c> 8.16c> 11.4Ac> 11.4Dc> 11.5Ac> 11.5Dc> 12.4Ac> 12.4Dc>	
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FBBD<59>	13.2B⇔ 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔ 6.5D⇔ 7.4A⇔ 7.4C⇔ 7.5A⇔ 7.5C⇔	10.50 ≈ 13.20 ≈ 8.16 ≈ 9.46 ≈ 9.40 ≈ 9.56 ≈ 9.50 ≈ 10.46 ≈ 10.40 ≈ 10.56 ≈	10.50 13.20 FBCD<45> 8.1A 8.1C 9.4A 9.4D 9.5A 9.50 10.4A 10.4D 10.5A	F801A<10 8.3G> 11.1C< 12.1A< 13.3D<> F801A<11> 8.3G> 11.1C< 12.1A< 13.3D<> F801A<12> 8.3G> 11.1C< 12.1A< 13.3D<>	11.5A> 11.5D> 12.4A> 12.4D> 12.5A> 12.5D> 13.2D> FBDD<32> 8.1D> 8.1D> 11.4A> 11.4D>	
FBBD<60>	13.2B⇔ 3.1D⇔ 3.1G⇔ 6.4A⇔ 6.4D⇔ 6.5A⇔	10.5D ◇ 13.2D ◇ FBCD < 9> 8.1A ◇ 8.1C ◇ 9.4D ◇ 9.5A ◇	10.5D⇔ 13.2D⇔ FBCD<46> 8.1A⇔ 8.1C⇔ 9.4A⇔ 9.4D⇔ 9.5A⇔	FBD1BA0 8.3F> 11.2C< 12.2A< 13.4D ⇒ FBD1BA1 8.3F> 11.2C< 12.2A< 13.4D ⇒	11.5A⇔ 11.5D⇔ 12.4A⇔ 12.4D⇔ 12.5A⇔ 12.5D⇔ 13.2D⇔	
	6.50 ◇ 7.44 ◇ 7.4C ◇ 7.5A ◇ 7.5C ◇ 13.2B ◇	9.50⇔ 10.4A⇔ 10.4D⇔ 10.5A⇔ 10.5D⇔ 13.2D⇔	9.5D⇔ 10.4A⇔ 10.4D⇔ 10.5A⇔ 10.5D⇔ 13.2D⇔	FBDICAS* 8.4F> 11.1C< 12.1A< FBDICKE 8.4F> 11.2C< 12.2A< 13.4D↔ FBDICKO 8.4F> 12.2A< 13.2D↔	FBDC<33> 8.10 \Leftrightarrow 8.16 \Leftrightarrow 11.48 \Leftrightarrow 11.40 \Leftrightarrow 11.50 \Leftrightarrow 12.50 \Leftrightarrow 12.50 \Leftrightarrow 12.50 \Leftrightarrow 13.20 \Leftrightarrow 12.50 \Leftrightarrow 13.20 \Leftrightarrow	NVIDIA CORPORATION
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ALL DUTCE:	CION ODCOLCIOATIONS OCCUPANTS	TOWN DEFENDING DALPHO THE TOWN	AND STUGD DOCUMENTS OF THE SOUTH AND STUGGED TO THE SOUTH AND STUGGED T	ASSEMBLY P172: NV35, 400/425, 128MB, DVI-1, VG PAGE DETAIL <edit detail="" here="" insert="" page="" to=""></edit>		NV_PN 602 - 10172 - 0001 - 000
CONTAIN KNOWN	AND UNKNOWN VIOLATIONS OR DEVIATIONS OF	TIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO WARR WARRANTIES OF DESIGN. OF NONINFRINGEMENT, MERCHANTABILITY O	ANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISE WITH	RESPECT TO THE MATERIALS OR OTHERWISE, AND EXPRESSLY DIS	CLAIMS ALL	ID design PAGE 34 0F 38 NAME Emler / Hunter DATE 14-APR-2003
LILD WARKA	A	B		D F	F F	G H

2.3H< 2.3H< 2.4H< 2.4H< 31.1G<> FB_CAL_TERM_GND 3.4D> 13.5A< FBDD<34> 11.5A 11.5D 12.4A 12.4D HIP_5_12 29.1G⇔ 29.1G⇔ PCIRST* 12.5A 12.5D 13.2D HIP_5_12_F PCISTOP PCITRDY PCITRDY PH1_SNB PH2_SNB HIP_12V HIP_BT 12.5A⇔ 12.5D⇔ 13.2D⇔ HIP_COMP 29.1G <> 31.2G<> HIP_COMP2 HIP_FB HIP_GH HIP_GH_R FBDD<36 8.1D > 8.1G > 11.4A > 11.4D > 29.1G <> PLLVDD RESET_BUF* 16.3F> 21.3A< 22.3A< 23.3A<
ROMCS* 14.3F< 16.2C↔
SAGPOCALPD_VDDQ 16.1G< 11.5A 11.5D 12.4A 12.4D FBDD<37 HIP_GL HIP_GL_R HIP_OC HIP_PHASE I2CA_SCL_G 11.5A 11.5D 12.4A 12.4D 29.1G SAGPOCALPU GND 16.1G< 12 5Ac> 12 5Nc> 13 2Nc> 29.1G SAGPICALPD VDDO 16 16< 12.54 12.50 13.20 DO 8.1G 11.4A 11.4D 11.54 11.5D 12.4A 12.4D 12.5A 12.5D 13.2D 29.16⇔ 29.16⇔ 29.26⇔ 15.1E> 17.2A< SAGP1CALPU_VDUU 16.1G

 SAGP1CALPU_GND
 16.1G

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 22.2A
 24.3F>

 SEC_CVBS1
 22.2A
 24.4F>
 FBDD<39 8.1D > 8.1G > 11.4A > 11.4D > I2CA SDA 6 15.1E> 17.1A< SEC CVBS2 22.2A< 24.3F> 11.5A 11.5D 12.4A 12.4D 12.5A 12.5D 13.2D 8.1G 11.4A 11.4D 22.1A< 24.4F> 15.4B< 18.2C< 26 20.4B< 21.1E> I2CB_SCL_ I2CB_SCL_ 19.2D> 20.4B< FBDD<40 I2CB_SDA_0 19.1D> 20.4B< SIIA_TXC 11.5A 11.5D 12.4A 12.4D 12.5A 12.5D 13.2D I2CB_SDA_G 15.3E> 19.1A< SIIA_TXC* 20.4B< 21.1E> I2CC_SCL 16.2G> 21.2A< 22.3A< 23.2A< 24.2F< 20.3B< 21.1E> I2CC_SDA 24.2F 24.3E 26.2A 26.4A SIIA_TXD1* 12.5A 12.5D 13.2D 20.4B< 21.1E> FRDD<42> 8.10 \ightarrow 8.16 \ightarrow 11.40 \ightarrow 11.50 \ightarrow 12.40 \i IFPABPLLVDD IFPABRSET SIIA_TXD2 SIIA_TXD2* 20.4B< 21.1E> 20.4B< 21.1E> IFPABVREF IFPAIOVDD IFPBIOVDD SWAPREAD! THERMDA 11.5A 11.5D 12.4A 12.4D 20.16< THERMDC IFPCIOVOD IFPCPLLVDD IFPCRSET 12.5A 12.5D 13.2D TUNER_IRQ 24.2F> 26.2F< VIPD8 VIPD11 VIPD12 FRND<44 12.5A⇔ 12.5D⇔ 13.2D⇔ IFPCVREF 14.4A<> 16.3E> 8.1D ◇ 8.1G ◇ 11.4A ◇ 11.4D ◇ FBDD<45> LOAD_TEST 18.3A> 26.3C< VIPD13 14.4A<> 16.3E> NV35_FAN_PWM NVVDD_EN NVVDD_GND_SENS VIPD14 VIPD15 VIPD<0> 11.5A 11.5D 12.4A 12.4D 12.5A 12.5D 13.2D 14.4A<> 16.3E>
14.4A<> 16.3E> VIPD<7..0 11.5A 11.5D 12.4A 12.4D NVVDD_SENSE 2.4F> 2.5H< 31.2A< 31.2G<> 14.1C 16.3F 22.3A 12.5A⇔ 12.5D⇔ 13.2D⇔ NV_BOOT1 31.16 VIPD<1> 14.1C 16.3F 22.3A NV_BOOT1

NV_BOOT2

NV_COMP

NV_COMP_FB

NV_ISEN1

NV_ISEN2

NV_LGATE1

NV_LGATE1

NV_LGATE1 8.10 \lefta 8.16 \lefta 11.40 \lefta 11.50 \lefta 12.40 \lefta 11.50 \lefta 12.40 \lefta 12.50 \lefta 13.20 \lefta 13.50 \lefta 13.20 \lefta 13.50 \ VIPD<2> VIPD<3> VIPD<4> 14.10 16.3F 22.3A 14.10 16.3F 22.3A 14.10 16.3F 22.3A 14.10 16.3F 22.3A FBDD<48> 8.1D > 8.1G > 11.4A > 11.4D > 31.1G VIPD<5> 14.1C ⇔ 16.3F ⇔ 22.3A> 11.5A 11.5D 12.4A 12.4D VIPD<6> 14.10 16.3F 22.3A 11.54 11.50 12.44 12.40 12.54 12.50 13.20 8.10 8.16 11.44 11.40 11.54 11.50 12.44 12.40 VIPD<7> VIPD<7> VIPHADO VIPHAD1 14.1C 16.3F 22 14.1C 16.3F 22 14.3A 16.3E 14.4A 16.3E FBDD<49 NV_LGATE2 NV_LGATE2_R NV_OFS NV_PGOOD NV_PHASE1 12.5A⇔ 12.5D⇔ 13.2D⇔ VIPPCLK 16.3E> 22.4A< FBDD<50: 8.10 8.16 11.4A 11.4D VREFA01 4.3C > 13.5D > VREFAU1 VREFAU2 VREFAU1 VREFAU2 12.5A⇔ 12.5D⇔ 13.2D⇔ 8.1D⇔ 8.1G⇔ 11.4A⇔ 11.4D⇔ 29.3B< 30.5A< 31.4B> 5.3C → 13.5D → 4.3E → 13.5D → FBDD<51> NV_PHASE2 NV_PWM1 NV_PWM2 NV_RGND NV_UGATE1 11.5A 11.5D 12.4A 12.4D 31.1G VREFB01 6.3C 13.5D 7.3E > 13.5D > 7.3C > 13.5D > 12.5A 12.5D 13.2D VREFB02 VREFB11 11.5A 11.5D 12.4A 12.4D VREFB12 VREFC01 6.3E ⇒ 13.5D ⇒ 9.3C ⇒ 13.5D ⇒ 12.5A⇔ 12.5D⇔ 13.2D⇔ 31.2G NV_UGATE1_R NV_UGATE2 NV_UGATE2_R FRND<53 8 10 8 16 11 44 11 40 1 31.2G <> VREECO2 10.3E⇔ 13.5D⇔ VREFC11 VREFC12 10.3€ 13.5D 9.3E 13.5D NV_VCC NV_VDIFF NV_VID1 NV_VID2 NV_VID3 8.1D > 8.1G > 11.4A > 11.4D > FBDD<54> 31.1G <> VREFD01 11.3C > 13.5D > 11.5A 11.5D 12.4A 12.4D VREFD02 12.3E > 13.5D < VREFD11 VREFD12 WB_PWM1 12.3€ 13.50 12.3€ 13.50 11.3E 13.50 26.16 12.5A⇔ 12.5D⇔ 13.2D⇔ 26.1F> 31.4A< 12.58 12.50 13.20 3.10 8.16 11.44 11.40 11.54 11.50 12.44 12.40 26.2F> 31.4A< 26.2F> 31.4A< NV_VID4 NV_VSEN PCIAD<0> PCIAD<31. PCIAD<1> 12.5A 12.5D 13.2D 26.3F> 31.4A< WB_PWM2 WB_THERM1 26.1G<> FBDD<56 8.1D \$\infty 8.1G \$\infty 11.4A \$\infty 11.4D \$\infty\$ 26.16 26.16 15.4F 15.4F 11.5A > 11.5D > 12.4A > 12.4D > 12.5A > 12.5D > 13.2D > 8.1D > 8.1G > 11.4A > 11.4D > WB_THERM2 XTALIN XTALOUT FBDD<57> PCIAD<1>
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PCIAD<11> 11.5A 11.5D 12.4A 12.4D 12.5A \diamond 12.5D \diamond 12.4A \diamond 12.4D \diamond 12.5A \diamond 12.5D \diamond 13.2D \diamond D \diamond 8.1G \diamond 11.4A \diamond 11.4D \diamond 11.5A \diamond 11.5D \diamond 12.4A \diamond 12.4D \diamond 12.5A 12.5D 13.2D FBDD<59 8.10 8.16 11.4A 11.40 11.5A 11.5D 12.4A 12.4D 12.5A 12.5D 13.2D 8.1D 8.1G 11.4A 11.4D FBDD<60> 11.5A 11.5D 12.4A 12.4D PCIAD<12>
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PCIAD<17>
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PCIINTA
PCIINTB
PCIIRDY
PCIPAR 2.4H< 2.4H< 2.4H< 2.4H< 2.4H< FB CALAB CLK GND 3.4D> 13.5A<> FB_CALCD_CLK_GND 3.4D> 13.5A<>
FB_CAL_CLK_GND 13.5A<> FB_CAL_PD_VDDQ 3.4D> 13.5A<> NVIDIA CORPORATION FB_CAL_PU_GND 3.4D> 13.5A<> 2701 SAN TOMAS EXPRESSWAY SANTA CLARA, CA 95050, USA 602-10172-0001-000 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 PAGE 35 OF 38 design Emler / Hunte DATE 14-APR-2003 G

A	В	D	E	F	Н
Reference for the entire design *** 32.20 17.5C 17.4C 17.4C 17.4B 17.4B 17.4B 17.5E	C110 C 9.1H C222 C 1212 C 9.1S C 1224 C 1215 C 1216 C 1216 C 1225 C 1216 C 1216 C 1225 C 1216	C 30.4A	C643 C 5.4F C646 C 5.4F C646 C 5.4F C646 C 5.4F C646 C 7.36 C647 C 7.36 C648 C 7.37 C648 C	F 6	д 2
	C211 C 6.2G C520 C C212 C 6.2G C521 C	C 31,3E C632 C 5,3E C 29,3D C633 C 5,1F C 30,4F C634 C 5,3F C 31,4F C635 C 5,5F C 31,3A C636 C 5,2F C 30,4D C637 C 7,4F C 31,3C C638 C 5,3F C 31,2A C639 C 5,3F C 31,2A C639 C 5,3F	C744 C 10.4F C745 C 2.2F		5

В	С	D	E F	G H
C867 C 12.3E C868 C 25.48 C869 C 15.2A C870 C 12.3F C871 C 11.3H C872 C 12.3F C873 C 12.5F C873 C 12.5F C873 C 12.5F C875 C 12.3F C876 C 25.2C	C979 C 26.5H C980 C 24.40 C981 C 24.3C C982 C 24.4C C983 C 24.4C C983 C 24.40 C985 C 24.40 C985 C 24.4C C986 C 19.2C C987 C 19.1C C988 C 19.2C	LB503 L 2.4F LB504 L 15.4A LB505 L 15.1A LB506 L 15.3A LB507 L 22.46 LB508 L 22.46 LB508 L 24.26 LB510 L 24.26 LB511 L 24.26 LB511 L 24.26 LB511 L 24.26 LB512 L 22.2F	R52 R 26.20 R53 R 26.4G R54 R 26.3D R55 R 26.3F R56 R 26.3E R57 R 26.3F R58 R 26.3D R59 R 26.1D R60 R 14.4B	
C877 C 26.20 C878 C 12.46 C879 C 26.18 C880 C 12.3F C881 C 11.1F C882 C 12.46 C883 C 12.1F C884 C 12.3C C885 C 12.3C C886 C 11.1F	C989 C 20.5C C990 C 19.3C C991 C 26.46 C992 C 17.2C C993 C 17.2C C994 C 17.3C C995 C 17.1C CM501 CON.AGP 2.1B D1 D_3PIN_AC 17.5B D2 D_3PIN_AC 17.4B	LB513 L 23.2D LB514 L 23.2E LB515 L 18.2A LB516 L 18.2A LB517 L 24.3D LB518 L 24.3D LB519 L 19.1C LB520 L 19.2C LB521 L 19.2C LB522 L 20.5B	R62 R 26.46 R63 R 14.4C R64 R 26.2C R65 R 11.3E R66 R 11.2D R67 R 26.2E R68 R 14.3B R69 R 26.2E R70 R 11.3E	
C887 C 12.46 C889 C 12.3C C899 C 12.46 C890 C 26.46 C891 C 12.3F C892 C 12.46 C893 C 12.46 C893 C 12.46 C893 C 12.3F C895 C 12.3F C896 C 12.3F C896 C 12.3F C896 C 12.36 C897 C 22.46	03	LBS23 L 19.3C LBS24 L 17.2C LBS25 L 17.2C LBS27 L 17.3C LBS27 L 17.1C MEC1 MEC.SERW 32.2C MEC2 MEC_SCRW 32.2C MEC3 MEC_SCRW 32.2C MEC3 MEC_SCRW 32.2C MEC3 MEC_SCRW 32.2C MEC4 MEC_SCRW 32.2C MEC4 MEC_SCRW 32.2C MEC4 MEC_SCRW 32.2C MEC4 MEC_SCRW 32.2C 01 Q_FET_N_ENH 26.3E 02 Q_NPN 26.1A	R72 R 14.3C R73 R 26.2B R74 R 26.1E R75 R 26.2C R76 R 8.4F R77 R 26.1B R78 R 26.1E R79 R 26.1C R80 R 26.1D R81 R 26.1B	
C898 C 12.3F C899 C 11.1H C990 C 22.4H C991 C 12.36 C992 C 22.1B C993 C 22.2C C994 C 22.1B C995 C 22.2B C996 C 22.2B C997 C 22.2B	D501 D_SCHOTTKY_29.18 D502 D_SCHOTTKY_29.18 D503 D 29.18 D504 D 30.18 D505 D_SPIN_CC 27.38 D506 D_SCHOTTKY 29.1C D507 D_ZENER 27.3A D508 D_SCHOTTKY 30.18 D509 D_ZENER 27.4A	QL Q_NTM 26.1E Q4 Q_FET_M_ENH 30.3F Q5 Q_FET_M_ENH 30.30 Q6 Q_FET_M_ENH 30.30 Q7 Q_FET_M_ENH 31.3E Q8 Q_FET_M_ENH 31.4E Q9 Q_FET_M_ENH 31.3E Q10 Q_FET_M_ENH 30.3F Q11 Q_FET_M_ENH 30.3F Q12 Q_FET_M_ENH 30.3F	R83 R 14.48 R84 R 11.1C R85 R 12.1A R86 R 8.4E R87 R 16.3F R88 R 16.2C R89 R 15.5D R90 R 11.2A R91 R 11.3C	
C908 C 22.28 C909 C 22.28 C910 C 12.36 C911 C 10.46 C912 C 11.1H C913 C 12.36 C914 C 12.36 C915 C 22.46 C916 C 12.36 C917 C 22.46	0511 0_3PIN_AA 30.2E D512 0_5CHOTKY 30.1C D513 0 29.3C D514 0_5CHOTKY 26.3G D515 0_3PIN_AC 24.4E D516 0_3PIN_AC 24.4E D517 0_3PIN_AC 24.4B D518 0_3PIN_AC 24.4B D519 0_3PIN_AC 24.4B D519 0_3PIN_AC 24.4B	013	R93 R 16.2C R94 R 15.5B R95 R 16.2B R96 R 2.5D R97 R 16.3B R98 R 9.3E R99 R 9.2D R100 R 9.1C R101 R 10.1A R102 R 9.3E	
C918 C 22.4E C919 C 12.1G C920 C 22.2F C921 C 22.2E C922 C 22.2F C923 C 22.2E C924 C 22.2F C925 C 22.2F C926 C 22.4G C927 C 24.2G	0521 0_3PIN_AC 20.58 0522 0_3PIN_AC 19.28 0523 0_3PIN_AC 19.28 0524 0_3PIN_AC 19.18 0525 0_3PIN_AC 19.28 0526 0_3PIN_AC 19.38 0527 0_5CHOTTKY 26.46 0528 0_3PIN_AC 17.2C 0530 0_3PIN_AC 17.2C 0530 0_3PIN_AC 17.3C	G508 Q_FET_P_ENH 30.1C Q509 Q_PMP 2.5A Q510 Q_FET_M_ENH 2.5A Q511 Q_FET_M_ENH 2.5C Q512 Q_FET_M_ENH 2.5C Q513 Q_FET_M_ENH 26.3E Q514 Q_FET_M_ENH 26.2E Q515 Q_FET_M_ENH 26.2A Q516 Q_FET_M_ENH 26.46 Q517 Q_FET_M_ENH 26.56 R1 R 17.5C	R103 R 8.48 R104 R 9.3C R105 R 8.4C R106 R 9.2A R107 R 9.3C R108 R 7.1A R109 R 4.3C R111 R 6.3C R111 R 6.1C R112 R 6.3C R113 R 4.3C	3
C929 C 24.2H C930 C 22.4F C931 C 22.4E C932 C 22.4F C933 C 22.4F C933 C 22.4A C934 C 22.4F C935 C 22.4F C936 C 22.4F C936 C 22.4C C937 C 22.2F C938 C 22.2E	F1 F.POLYSW 27.1E F501 F.POLYSW 31.1D J1 COM_DSUBL5H0 17.3E J2 COM_DSUBL5H0 19.3F J3 COM_DVIL_12 0.4D J4 COM_MINIDIN_9 24.4C J5 HOR_IX2 26.4H J6 HOR_IX10 24.1H J7 HOR_IX2 26.3H J8 HOR_IX4 26.3H	R2 R 17.5C R3 R 17.4C R4 R 17.4C R5 R 17.4C R6 R 17.3C R7 R 17.4E R8 R 20.4C R9 R 20.4C R10 R 17.5B R11 R 17.4B	R114 R 5.1A R115 R 3.4D R116 R 4.1C R117 R 3.4A R118 R 4.2A R119 R 6.2A R120 R 6.2D R121 R 6.3E R122 R 3.4F R122 R 3.4F	
C939 C 22.4E C940 C 23.2D C941 C 22.4F C942 C 23.2D C943 C 22.4F C944 C 23.2D C945 C 26.36 C946 C 22.46 C947 C 22.26 C948 C 23.2D	J9 HDR_IX4 27.1A J501 HDR_2X6 14.1F L1 L_OME_AP 17.5C L2 L_OME_AP 17.4C L3 L_OME_AP 17.3C L4 L 17.58 L5 L 17.48 L6 L 17.88 L7 L_CME_AP 19.5C L8 L_OME_AP 19.5C	R12 R 17.48 R13 R 19.5C R14 R 19.5C R15 R 19.4C R16 R 19.3C R17 R 19.4C R18 R 19.4C R19 R 17.4B R20 R 17.4B	R124 R 4.2C R125 R 3.4C R126 R 4.3E R127 R 4.3E R128 R 30.3C R129 R 29.4E R130 R 27.3E R131 R 27.3E R131 R 27.3G R132 R 27.3G	
C949 C 22.4E C950 C 24.4H C951 C 23.2C C952 C 22.4E C953 C 23.2D C954 C 24.3H C955 C 23.2C C956 C 23.2C C956 C 23.2C C956 C 23.2C C957 C 23.2C C958 C 28.3C	L9 L_CMF_AP 19.4C L10 L 19.58 L11 L 19.38 L12 L 19.48 L13 L 30.3C L14 L 31.4F L15 L 31.4F L16 L 30.36 L17 L 29.4E L18 L 30.2C	R22 R 20.3C R23 R 20.4C R24 R 23.2D R25 R 23.2D R26 R 18.4B R27 R 23.2C R28 R 18.4B R29 R 18.4B R30 R 18.4B R31 R 18.30	R134 R 27.5A R135 R 27.3E R136 R 27.3E R137 R 27.36 R138 R 27.3E R139 R 27.3E R140 R 27.3F R141 R 27.3F R501 R 30.2A R502 R 30.2A	
C959 C 23.2E C960 C 23.2C C961 C 23.2D C962 C 24.4H C963 C 23.2D C964 C 24.3H C965 C 23.2E C966 C 28.38 C967 C 24.3D C968 C 26.2F	L19 L 29.2C L20 L 31.2E L501 L 16.2F L502 L 26.3G L503 L 24.4G L504 L 24.3G L505 L 24.4G L506 L 24.3G L507 L 24.4B L508 L 24.3B	R32 R 18.38 R33 R 18.38 R34 R 21.30 R35 R 21.1C R37 R 18.38 R38 R 18.30 R39 R 18.30 R39 R 18.36	R503 R 29.28 R504 R 31.38 R505 R 31.38 R506 R 31.5F R507 R 31.3A R508 R 29.2A R509 R 31.50 R510 R 31.3F R511 R 31.2D	
C969 C 24.40 C970 C 24.38 C971 C 24.48 C972 C 24.48 C973 C 24.48 C974 C 24.40 C975 C 24.48 C976 C 24.48 C977 C 24.48 C978 C 24.48	L509 L 24.48 L510 L 24.40 L511 L 24.48 L81 L 27.2E L82 L 21.2E L83 L 21.2E L84 L 21.26 L85 L 21.26 L85 L 21.36 L8501 L 3.4C L8502 L 16.28	R42 R 18.3B R43 R 18.4B R44 R 18.4B R45 R 18.4B R46 R 18.3B R47 R 21.2D R48 R 21.2D R49 R 21.3B R50 R 21.3B	R513 R 31.30 R514 R 31.3A R515 R 31.2C R516 R 31.2C R517 R 27.4B R518 R 30.2B R519 R 31.1C R520 R 31.2B R521 R 31.2B	NVIDIA CORPORATION
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