P456-A02 DESIGN -- NV43/G73, 128/256 MB DDR3, VGA, DVI-I, SD/HDTV, VIVO

PAGE SUMMARY:

Page 1: TABLE OF CONTENTS & REVISION HISTORY

Page 2: PCI EXPRESS 16X, NVVDD DECOUPLING CAPS, PEX_IOVDD/Q DECOUPLING CAPS

Page 3: FBA MEMORY INTERFACE, GPU FBVDD/Q DECOUPLING CAPS

Page 4: FBA 8Mx32 DDR3 MEMORIES, FBA COMMAND BUS PU'S, FBA CLK TERMS

Page 5: FBA MEMORY FBVDD/Q DECOUPLING CAPS

Page 6: FBC MEMORY INTERFACE, GPU FBVTT

Page 7: FBC 8MX32 DDR3 MEMORIES, FBC CMD BUS PU'S, FBC CLK TERMS

Page 8: FBC MEMORY FBVDD/Q DECOUPLING CAPS, GPU GND CONNECTIONS

Page 9: DACA FILTERS, DACA SYNC BUFFERS & DB15 SOUTH

Page 10: DACC FILTERS, DACC SYNC BUFFERS & DB15 MID

Page 11: TMDS LINK A/B & PU's, TMDS IO BACKDRIVE PREVENTION, DVI CONNECTOR SOUTH

Page 12: TMDS LINK C/D & PU's, DVI CONNECTOR MID

Page 13: MIOA & MIOB, SLI CONNECTOR

Page 14: PHILIPS SAA7115 VIDEO DECODER

Page 15: DACB FILTERS, MINIDIN CONNECTOR NORTH, COMPONENT VIDEO OUTPUT CONNECTOR

Page 16: SPDIF-IN HEADER, XTAL

Page 17: JTAG, BIOS ROM, HDCP ROM, 2-PIN/4-PIN FAN CONTROL, GPIO's

Page 18: BIOS STRAPS & MECHANICALS

Page 19: POWER SUPPLY LINEARS: DDC5V, TMDS PLLVDD, DACB VDD, MIOA_VDDQ

Page 20: POWER SUPPLY: 5V, TMDSIOVDD, PEX1V2 AND FBVDDQ SWITCHER

Page 21: POWER SUPPLY: SINGLE PHASE NVVDD, NVVDD SET CONTROL

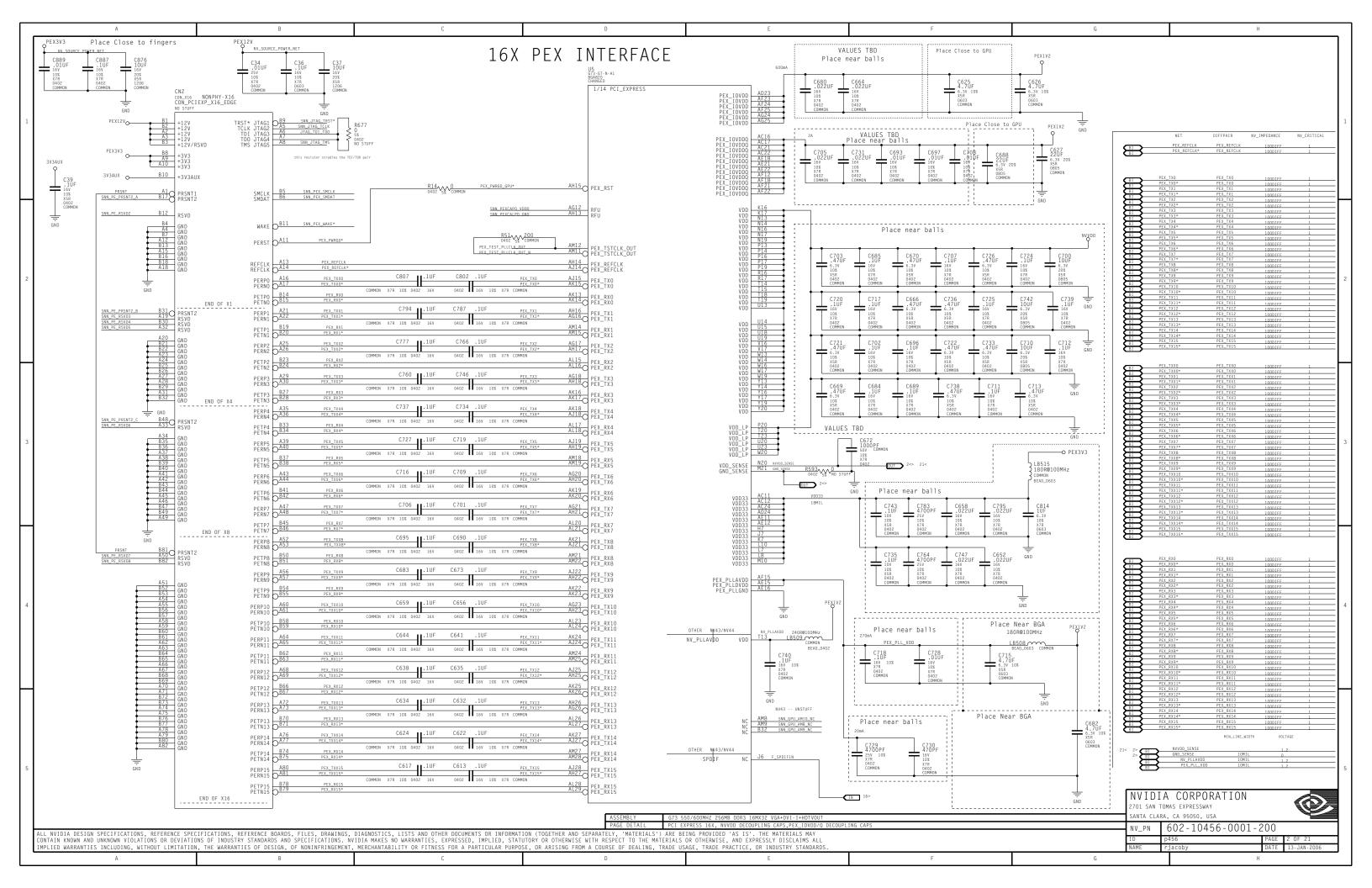
SKU	VARIANT	NVPN	ASSEMBLY
В	BASE	600-10456-base-sch	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
1	DT000	602-10456-0000-200	G73 550/600MHz 128MB DDR3 8MX32 VGA+DVI-I+HDTVOUT
2	DT001	602-10456-0001-200	G73 550/600MHZ 256MB DDR3 16MX32 VGA+DVI-I+HDTVOUT
3	DT002	602-10456-0002-200	G73 550/600MHZ 128MB DDR3 8MX32 VGA+DVI-I+HD/VIVO
4	WS000	602-50456-0000-200	NV43 WS 350/500 128MB DDR3 8MX32 DVI-I+DVI-I
5	WS0500	602-50456-0500-200	NV43 WS 360/450 128MB DDR3 8MX32 DVI-I+DVI-I
6	WS0501	602-50456-0501-200	G73 WS 350/600 128MB DDR3 8MX32 DVI-I+DVI-I_HDTVOUT
7	<undefined></undefined>	<undefined></undefined>	<undefined></undefined>
8	<undefined></undefined>	<undefined></undefined>	<undefined></undefined>
9	<undefined></undefined>	<undefined></undefined>	<undefined></undefined>
10	<undefined></undefined>	<undefined></undefined>	<undefined></undefined>
11	<undefined></undefined>	<undefined></undefined>	<undefined></undefined>
12	<undefined></undefined>	<undefined></undefined>	<undefined></undefined>
13	<undefined></undefined>	<undefined></undefined>	<undefined></undefined>
14	<undefined></undefined>	<undefined></undefined>	<undefined></undefined>
15	<undefined></undefined>	<undefined></undefined>	<pre><undefined></undefined></pre>

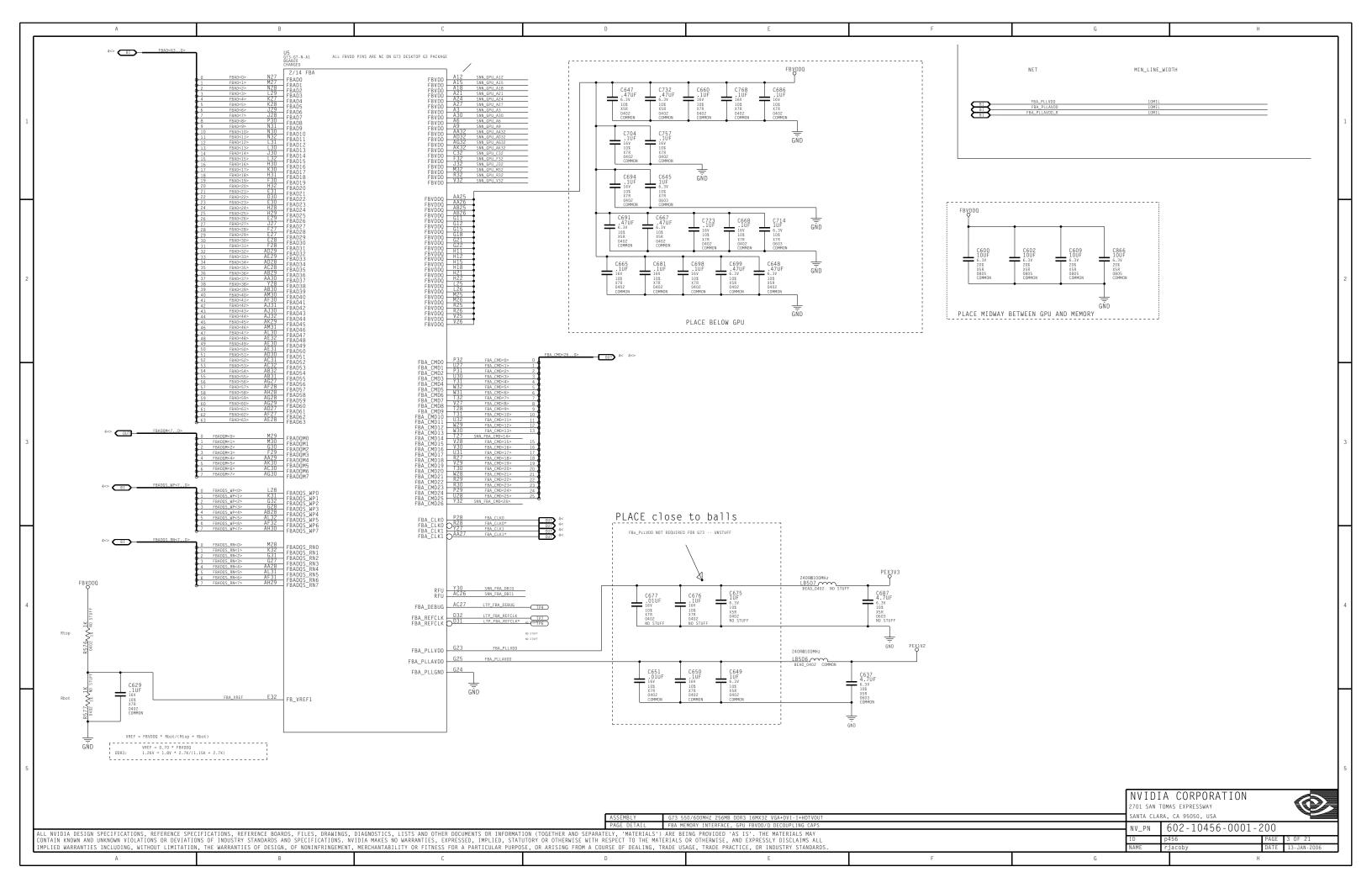
XO

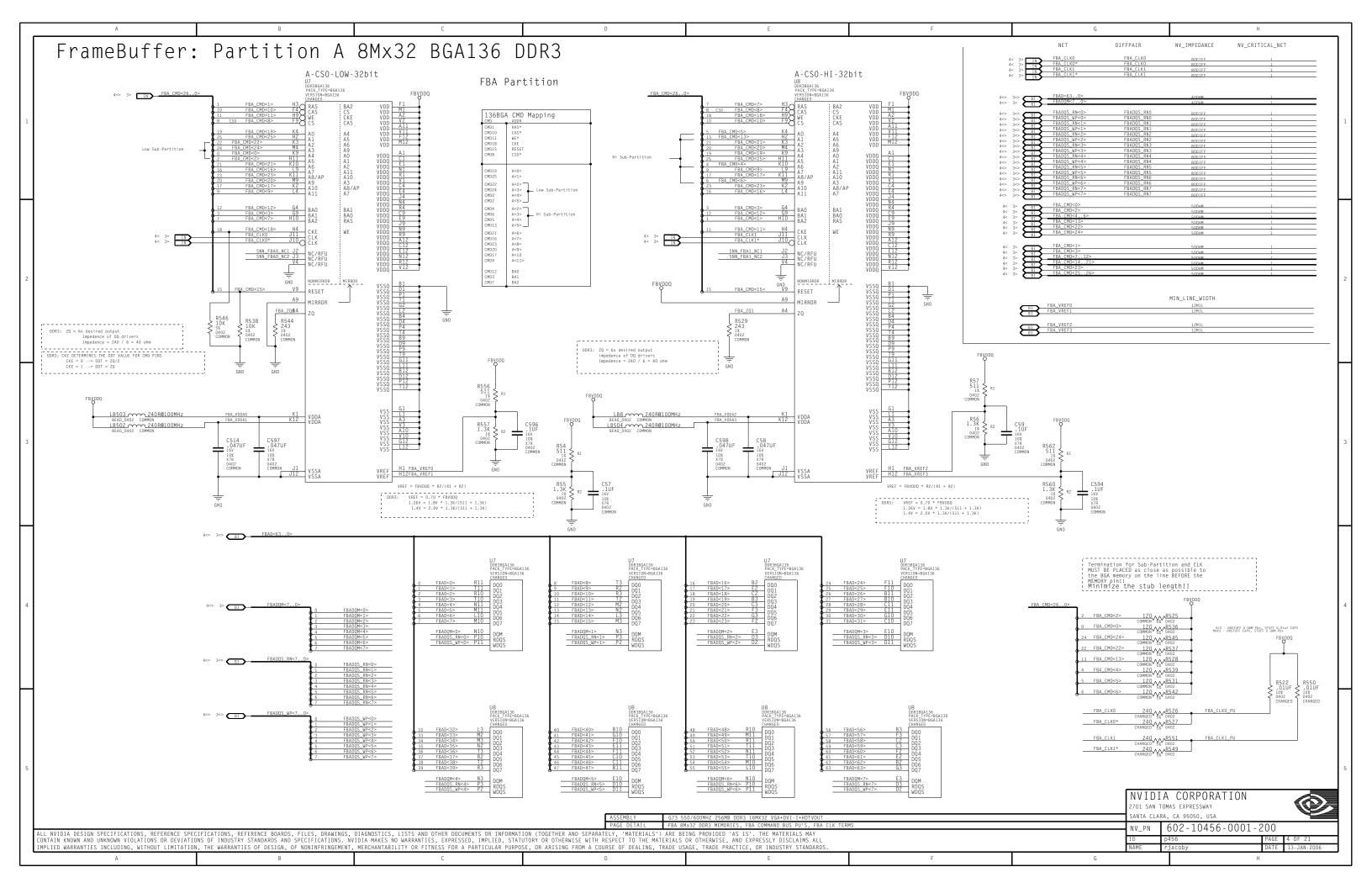
ASSEMBLY G73 550/600MHZ 256MB DDR3 16MX32 VGA+DVI-I+HDTVOUT

ALL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATICLLY, 'MATERIALS') ARE BEING PROVIDED 'AS 171 TABLE OF CONTENTS & REVISION HISTORY

CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS AND SPECIFICATIONS. NVIDIA MAKES NO MARRANTIES, EXPRESSED, IMPLIED, STATUTORY OR OTHERWISS WITH RESPECT TO THE MATERIALS ON OF THERMISS WITH RESPECT TO THE MATERIALS OR OTHERWISS WITH RESPECT



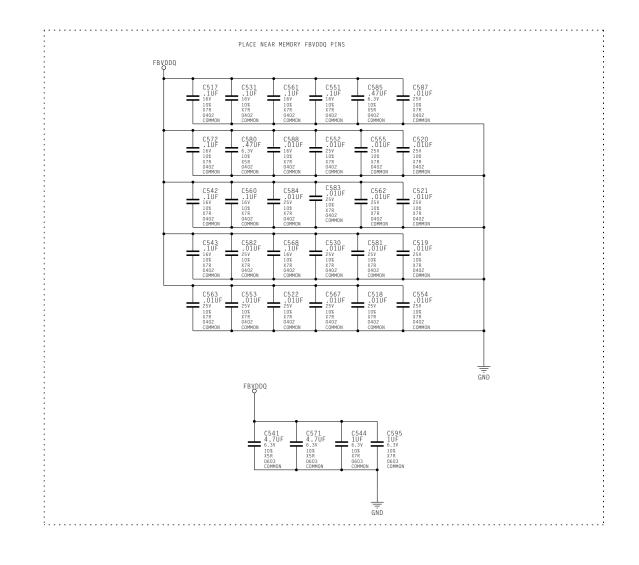


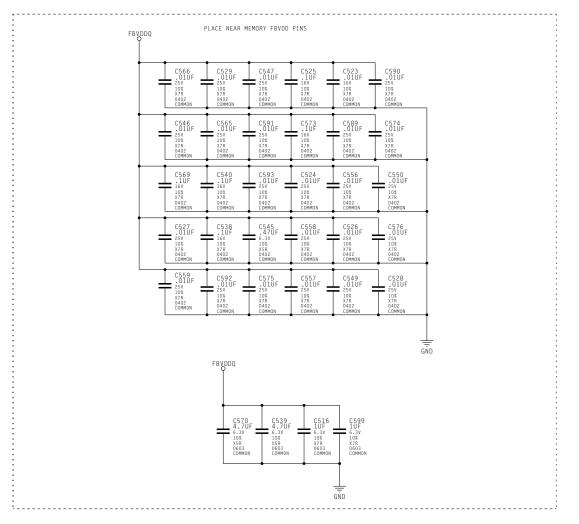


FRAME BUFFER: PARTITION A DECOUPLING

Decoupling for FBA 0..31

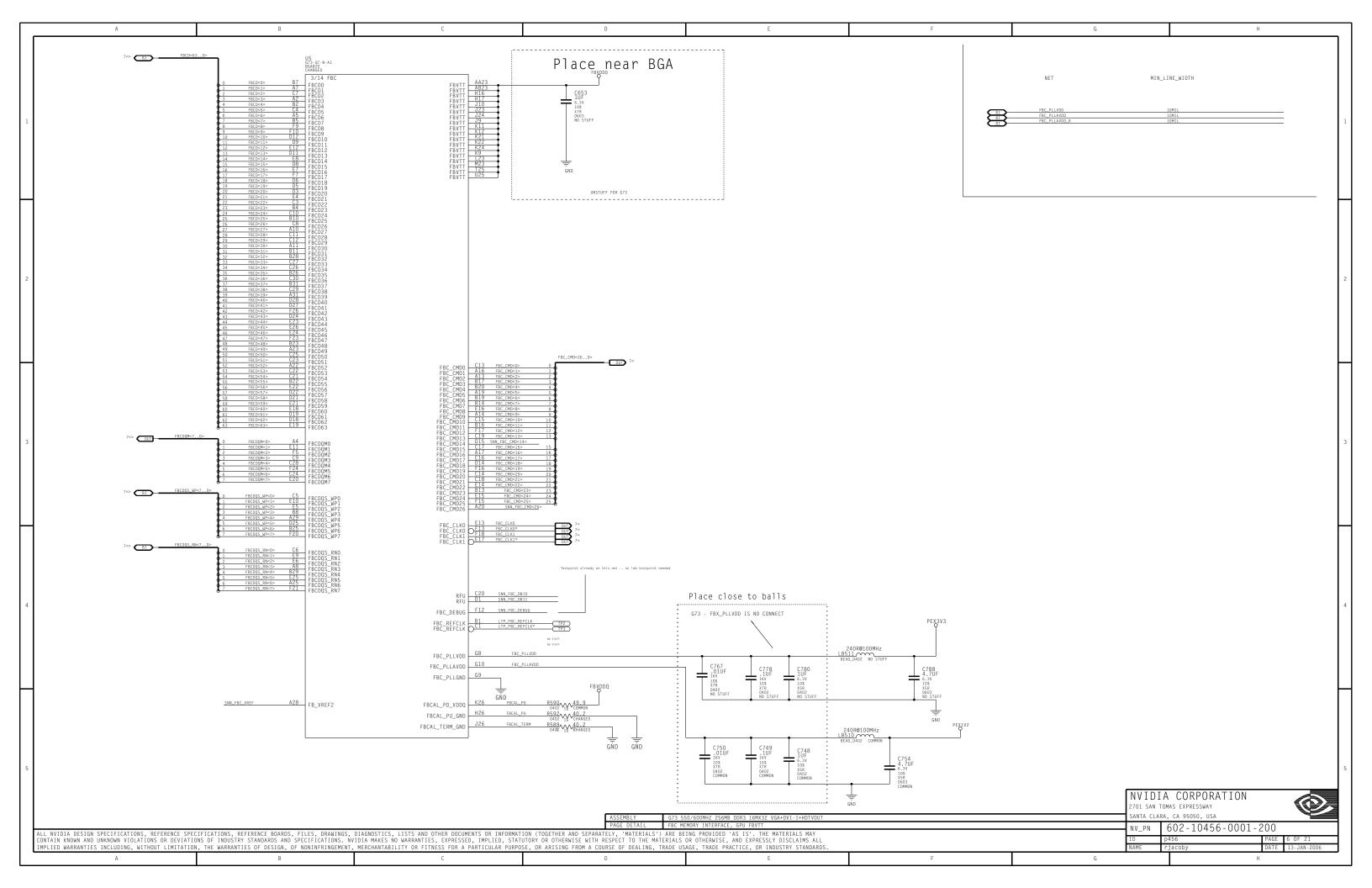
Decoupling for FBA 32..63

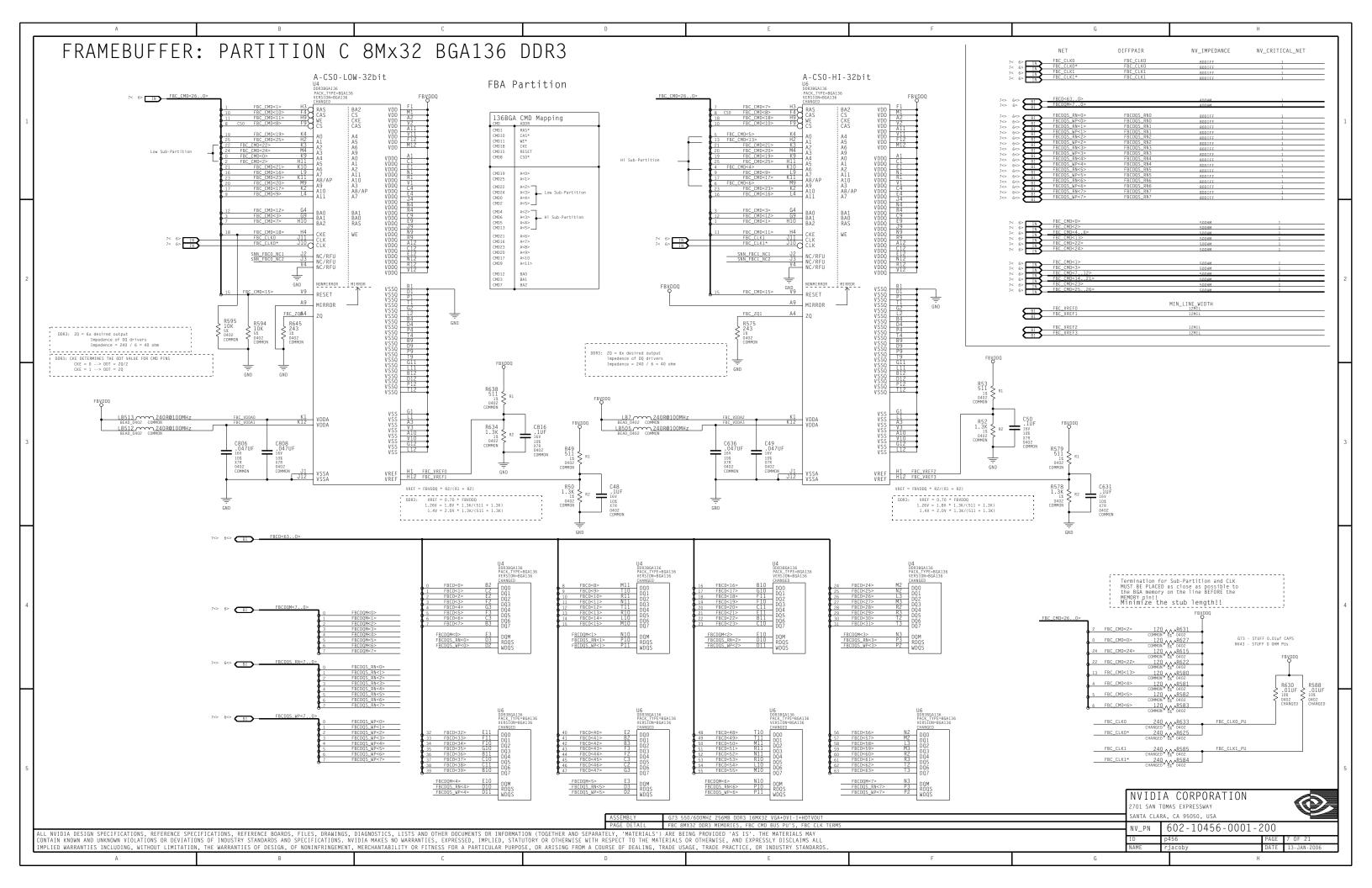


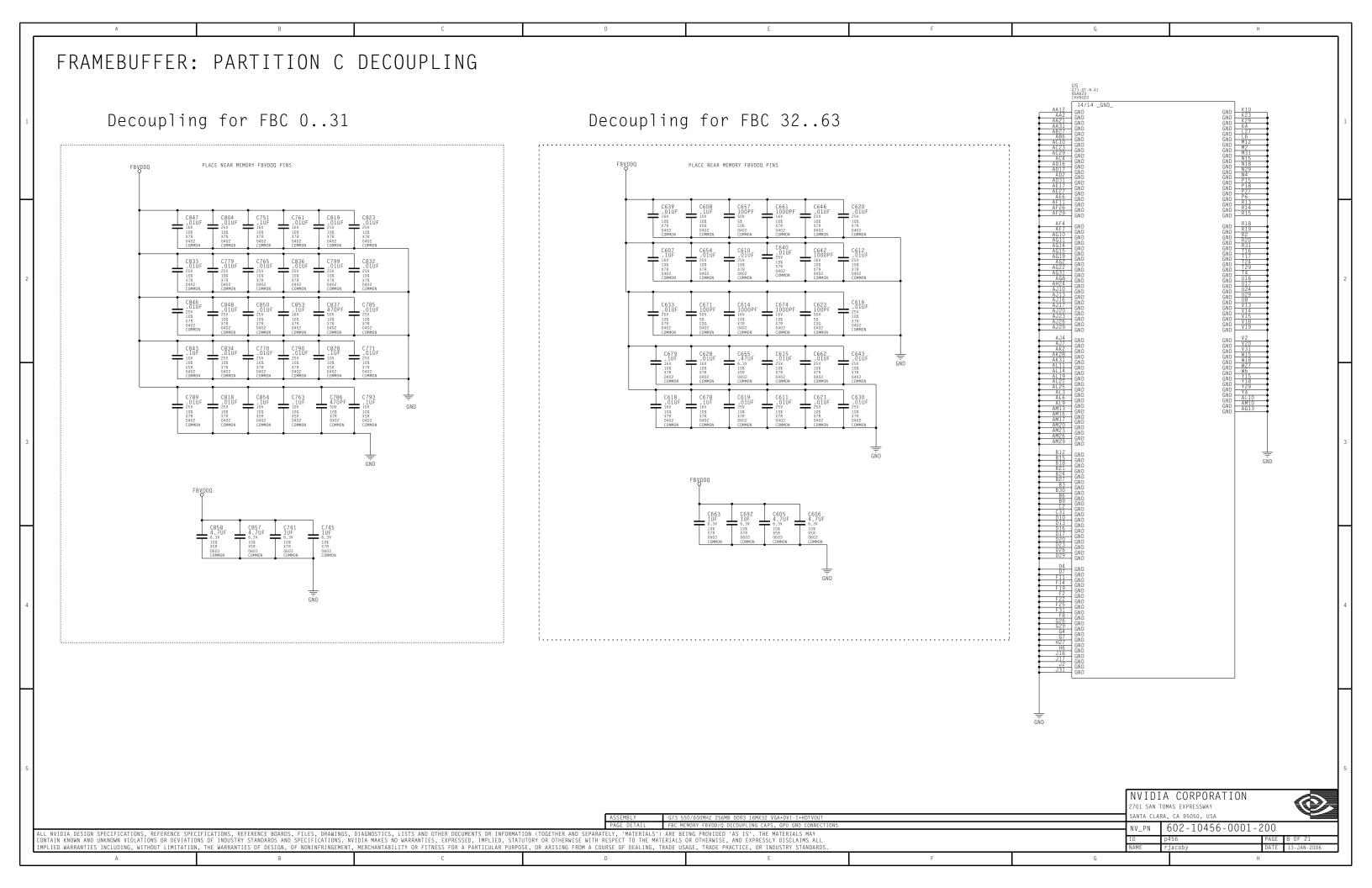


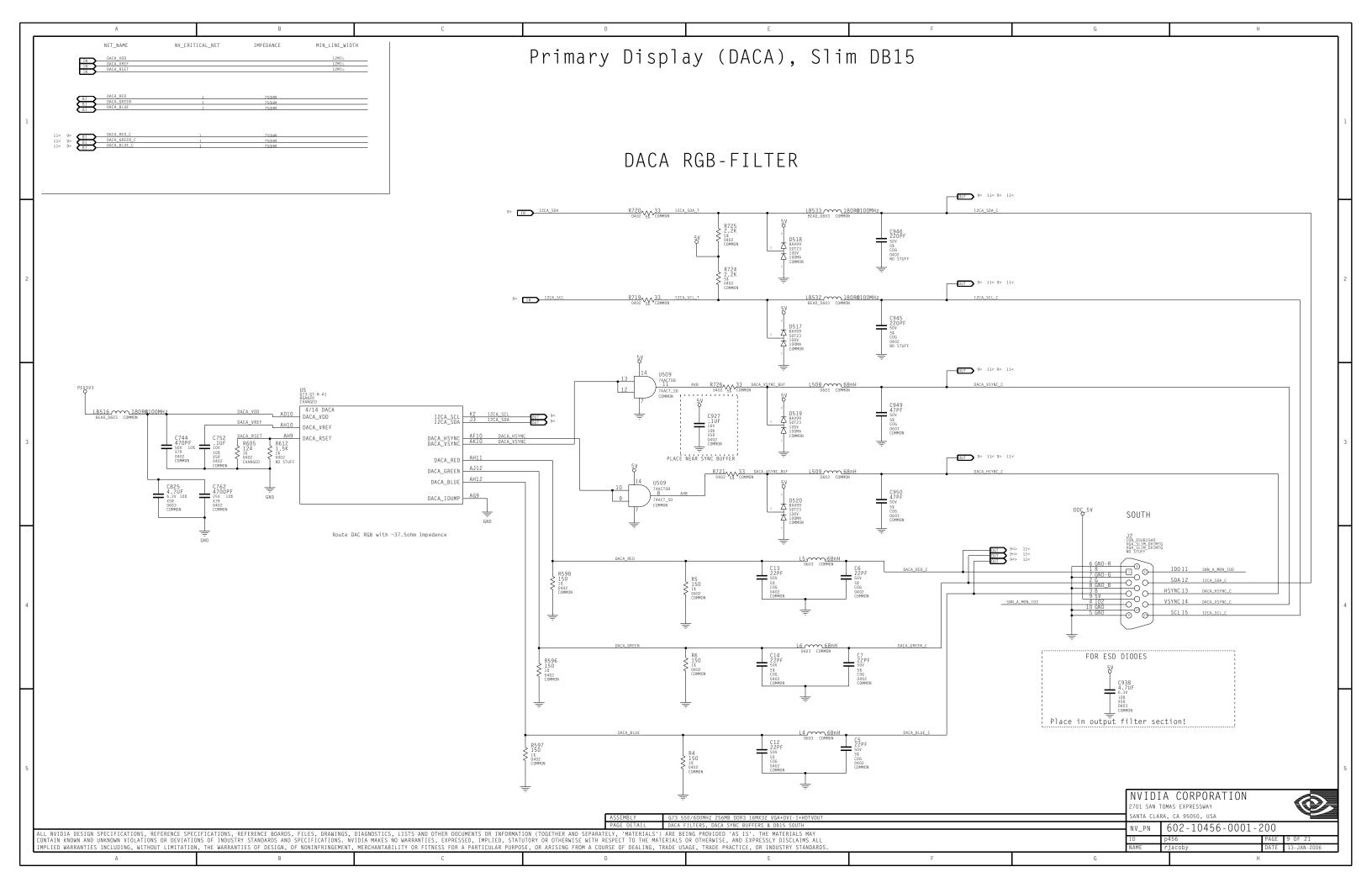
NVIDIA CORPORATION 2701 SAN TOMAS EXPRESSWAY SANTA CLARA, CA 95050, USA 602-10456-0001-200

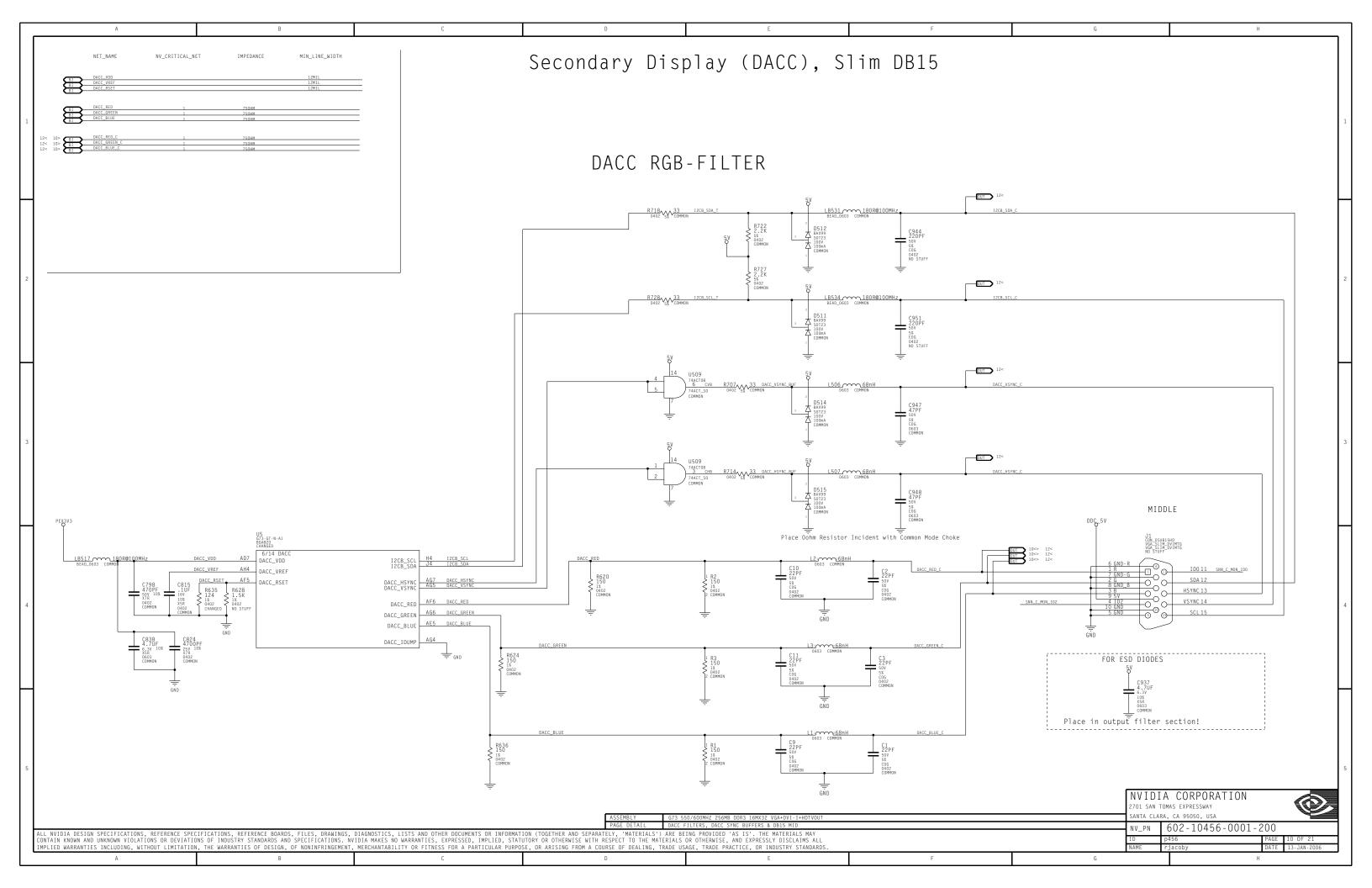
NLL NVIDIA DESIGN SPECIFICATIONS, REFERENCE SPECIFICATIONS, REFERENCE BOARDS, FILES, DRAWINGS, DIAGNOSTICS, LISTS AND OTHER DOCUMENTS OR INFORMATION (TOGETHER AND SEPARATELY, 'MATERIALS') ARE BEING PROVIDED 'AS IS'. THE MATERIALS MAY
CONTAIN KNOWN AND UNKNOWN VIOLATIONS OR DEVIATIONS OF INDUSTRY STANDARDS 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

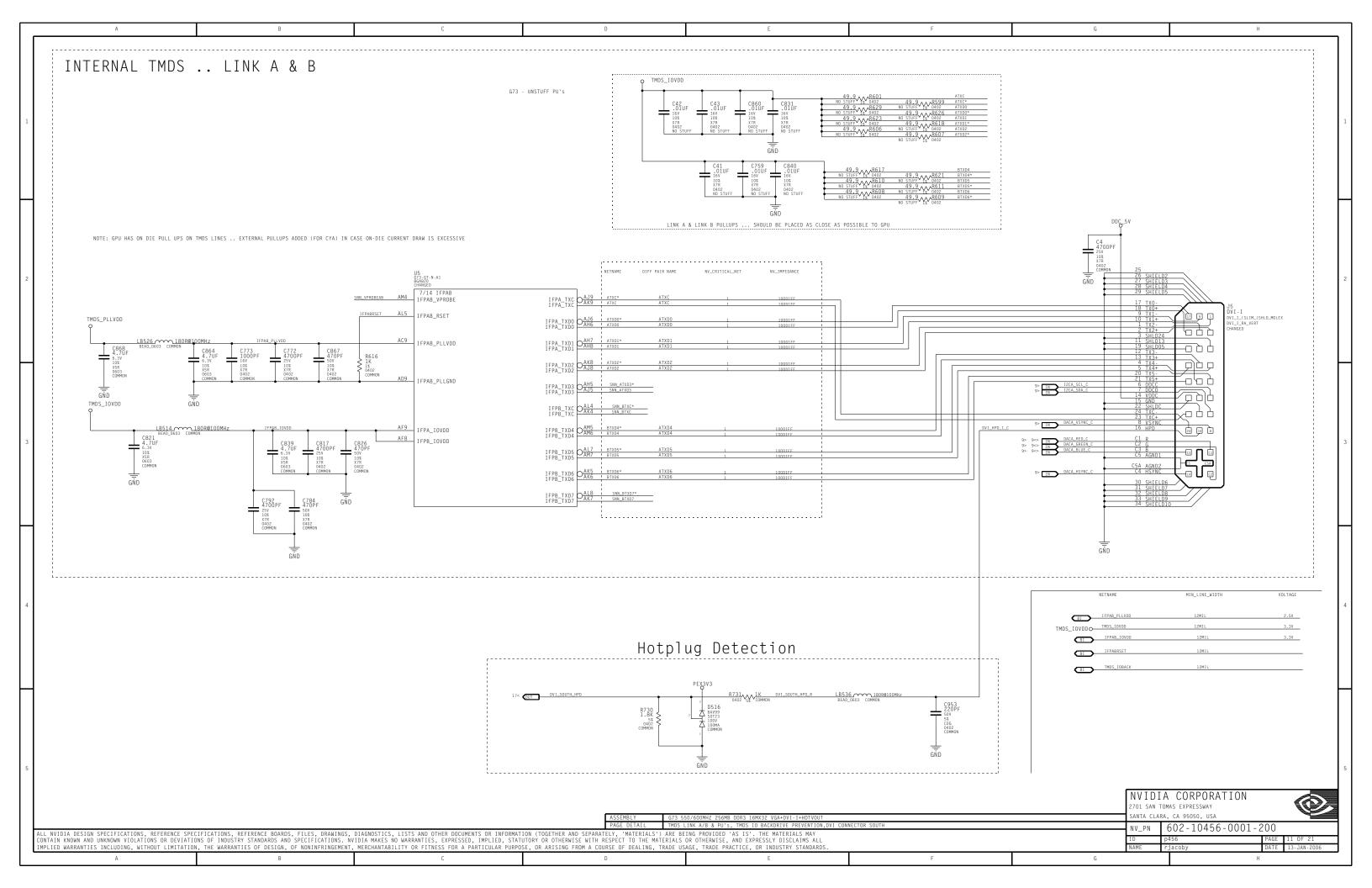


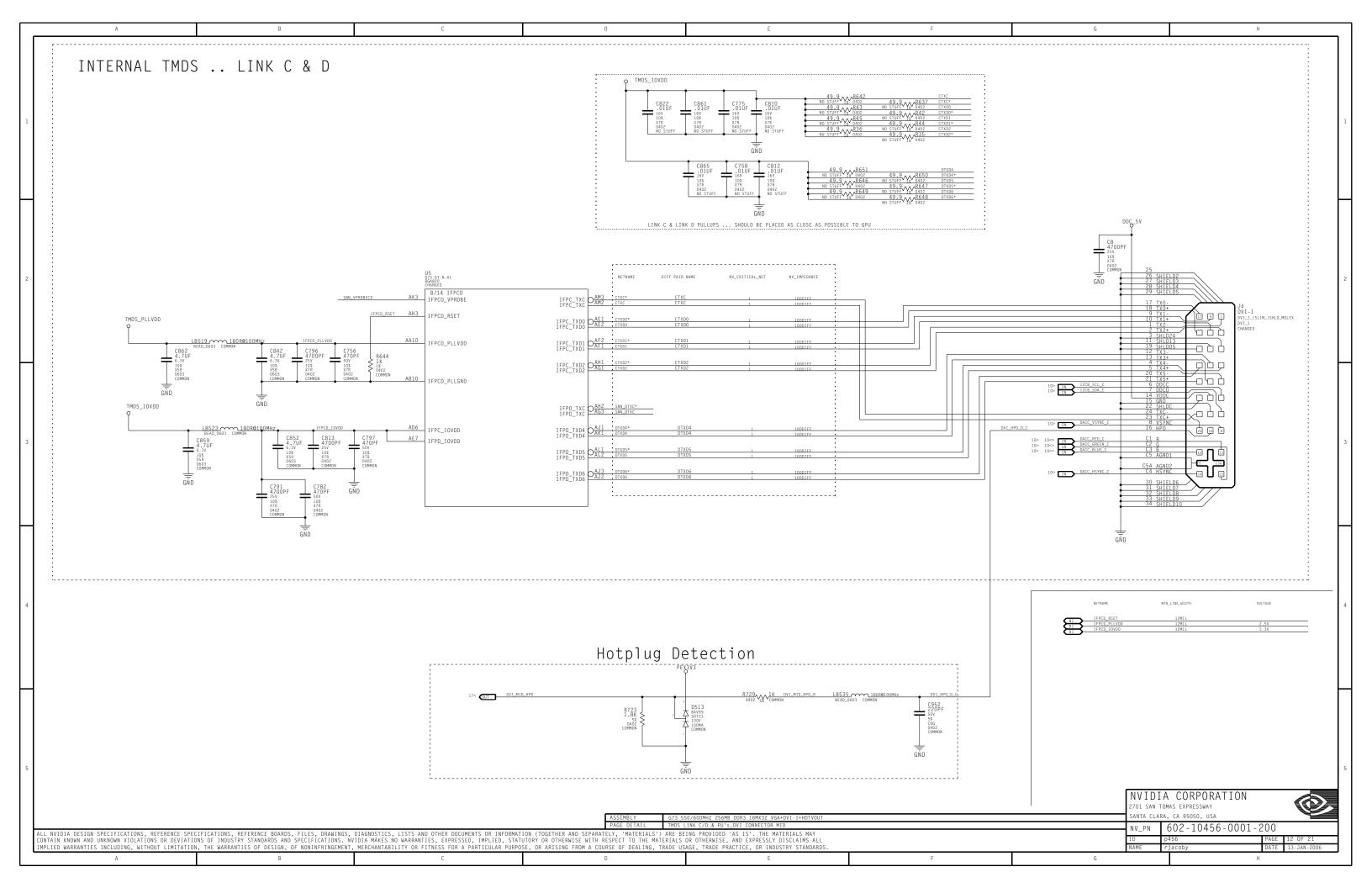


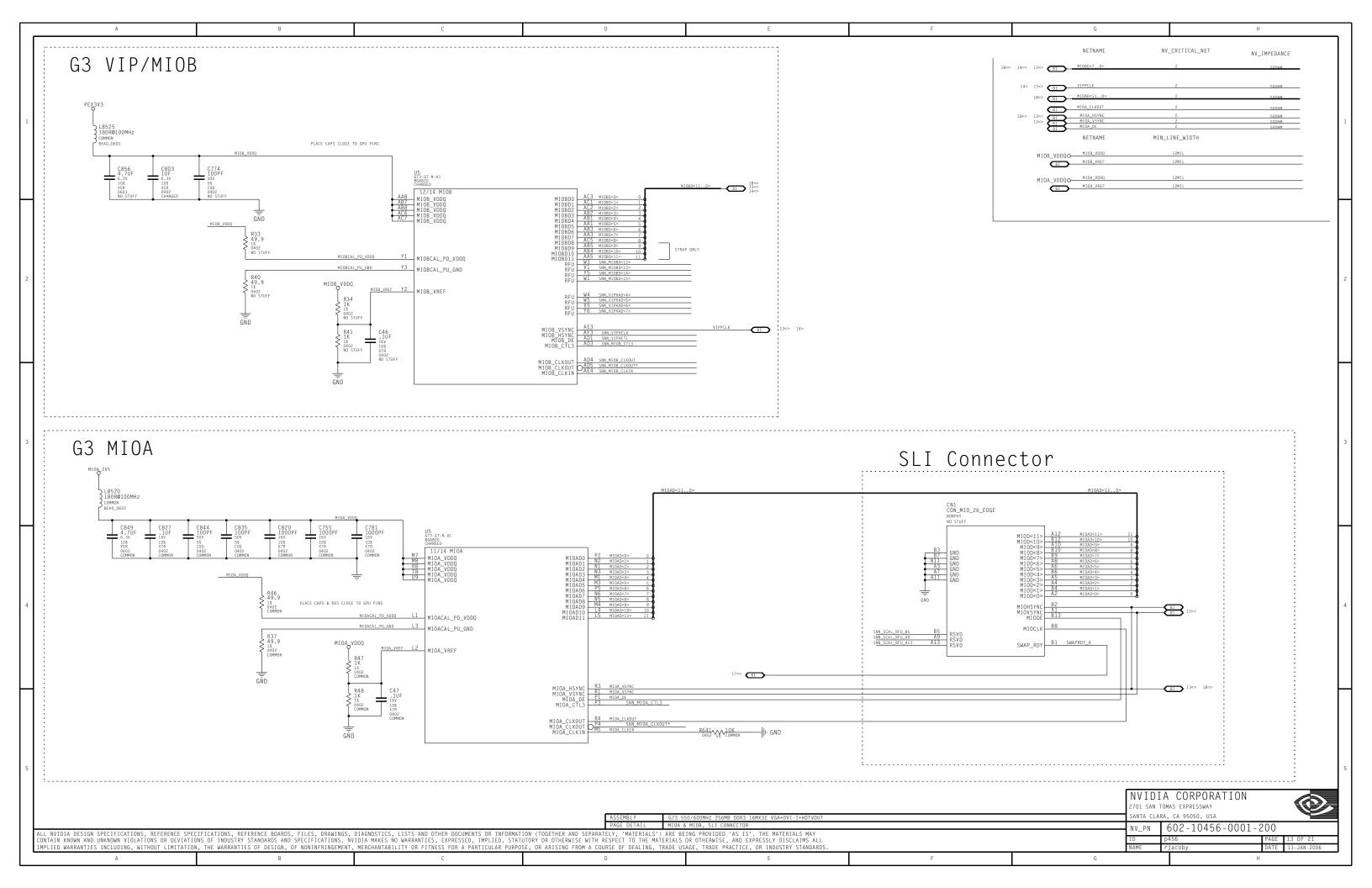


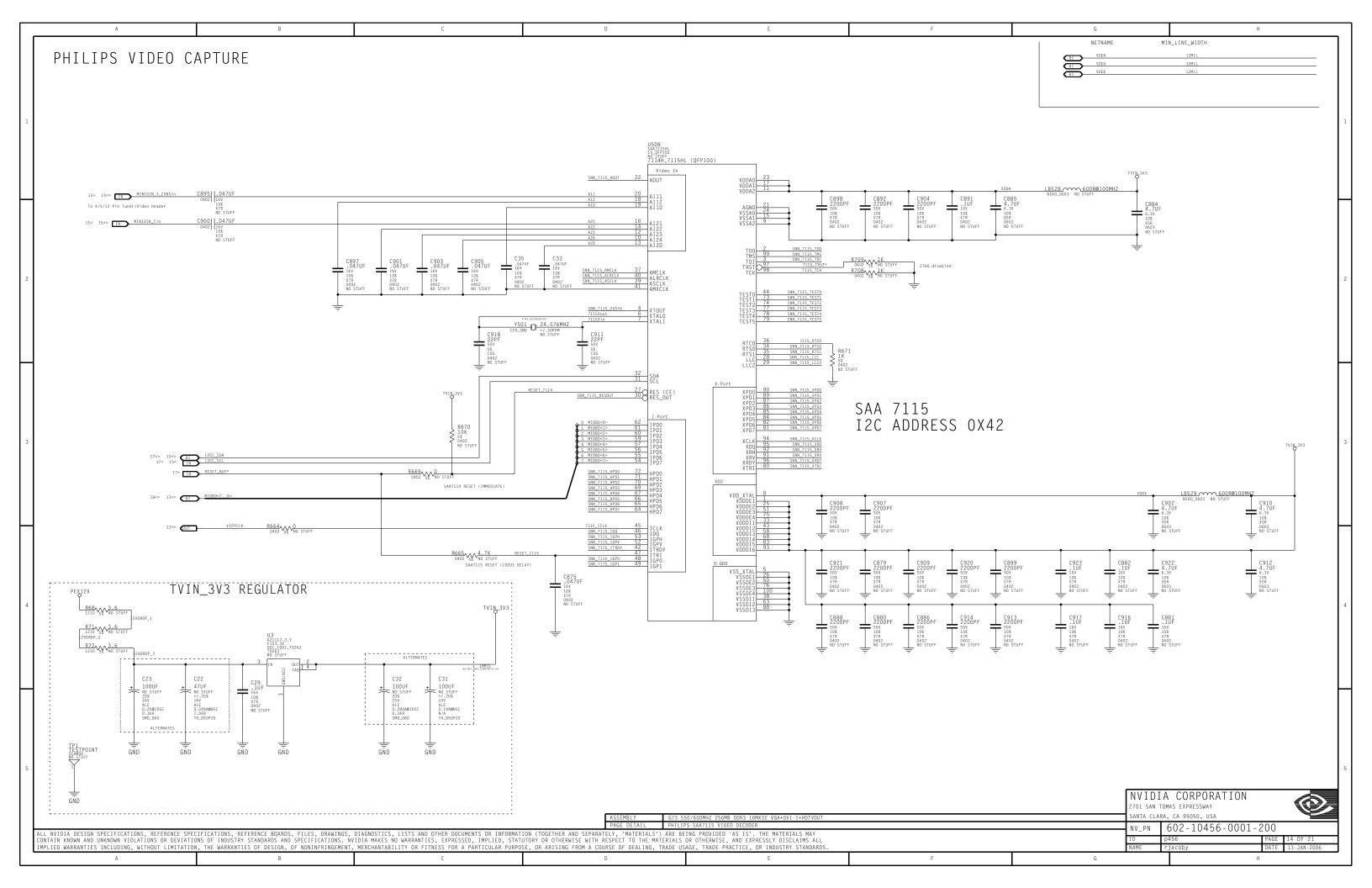


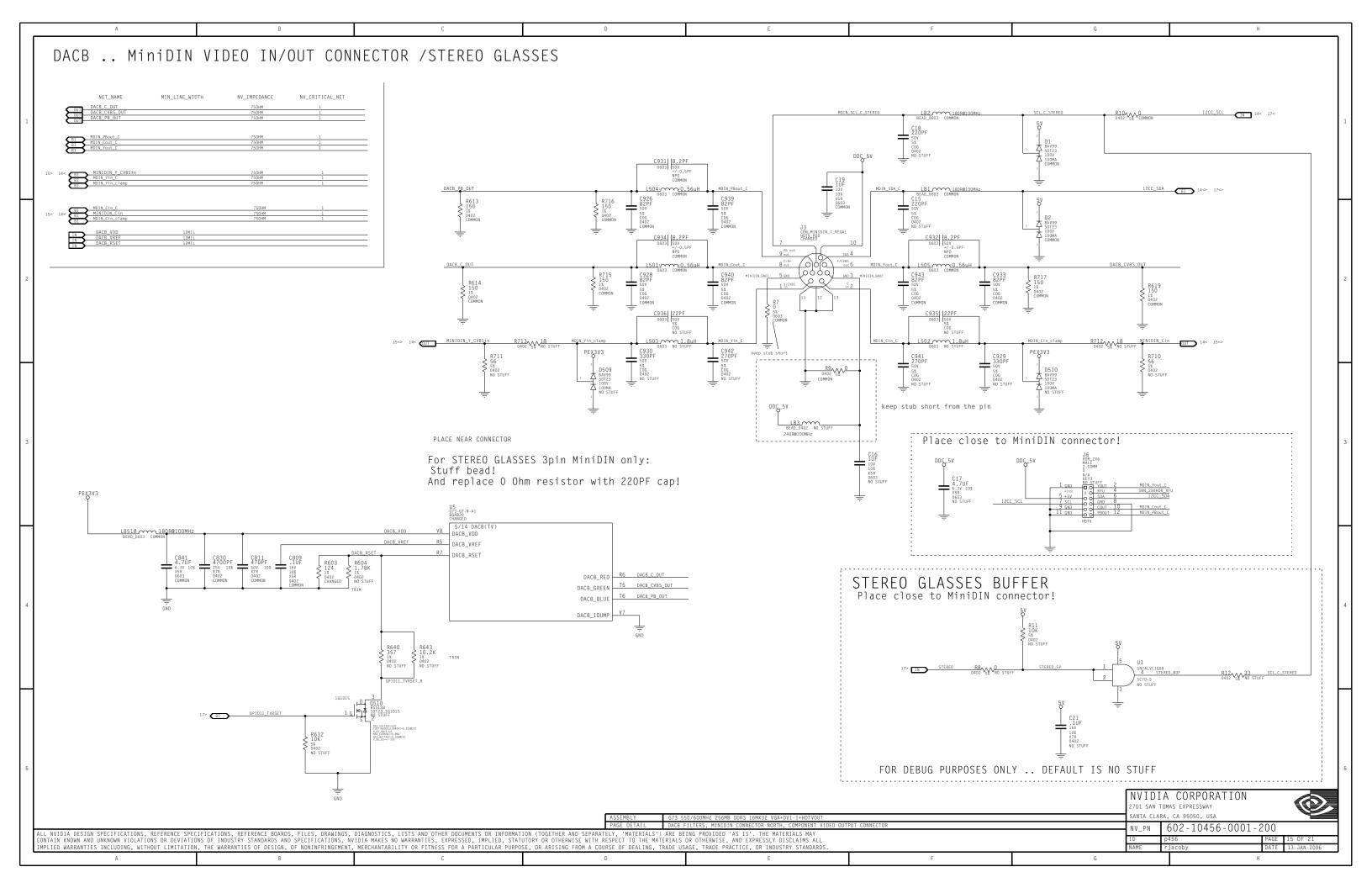




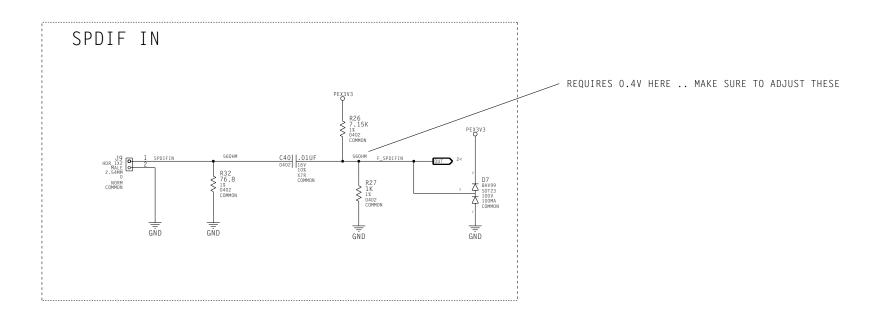


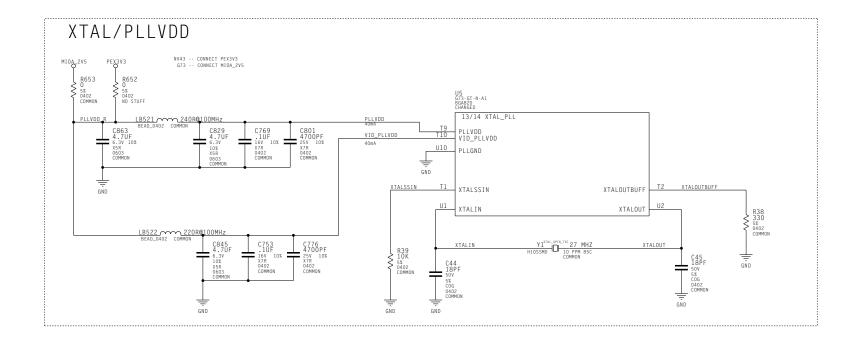


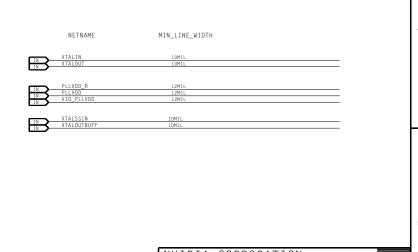










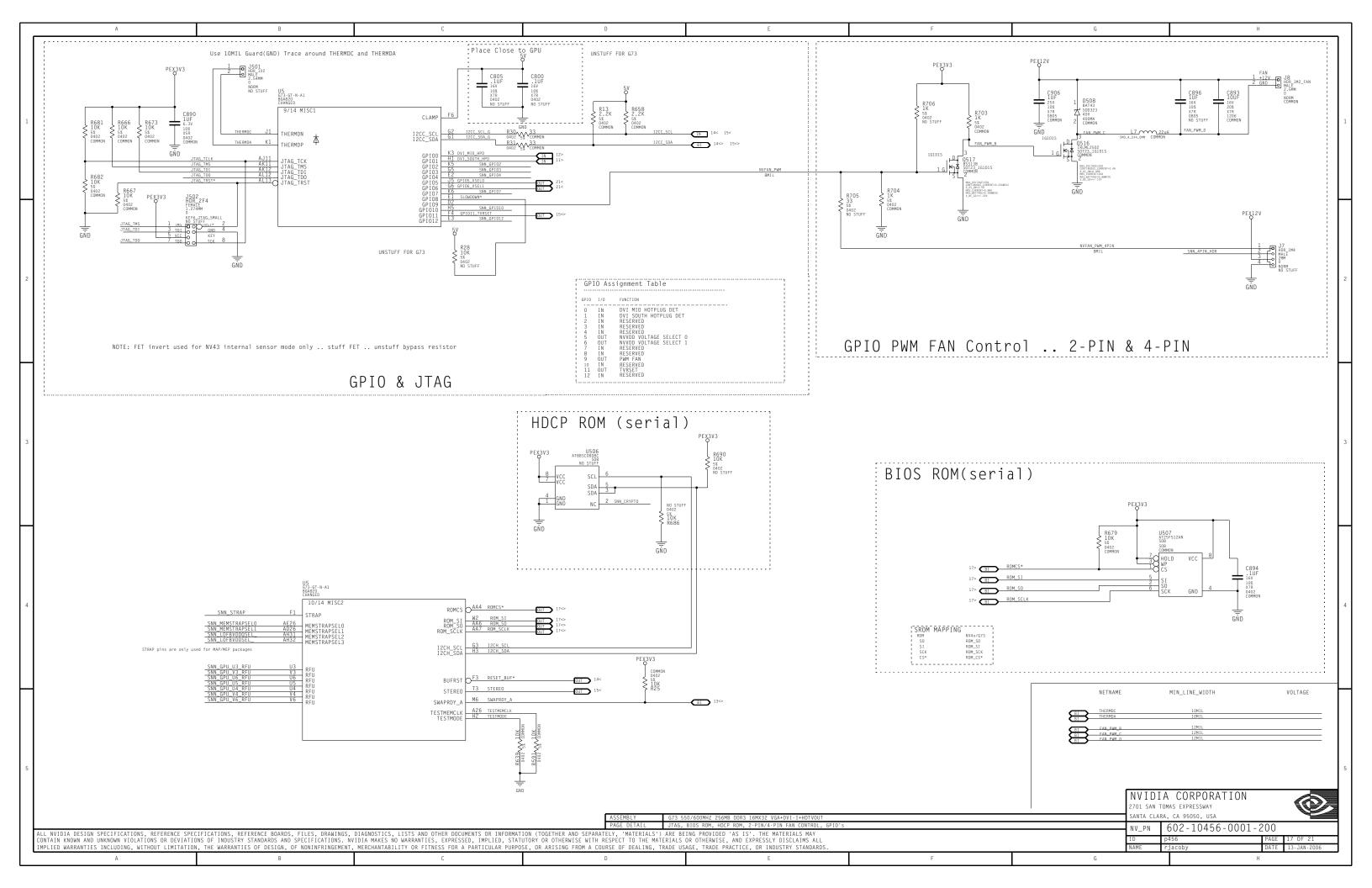


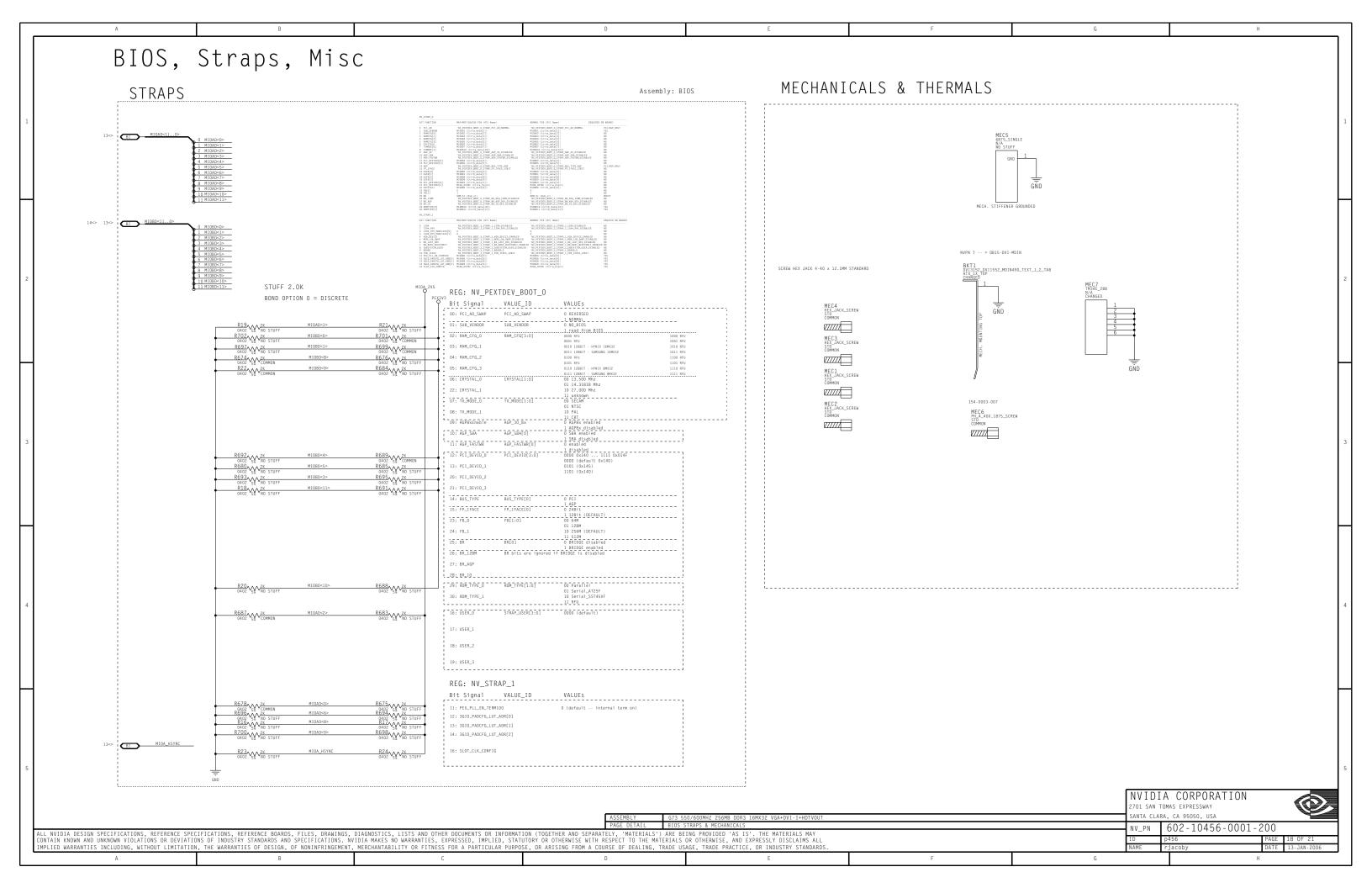
NVIDIA CORPORATION 2701 SAN TOMAS EXPRESSWAY

SANTA CLARA, CA 95050, USA

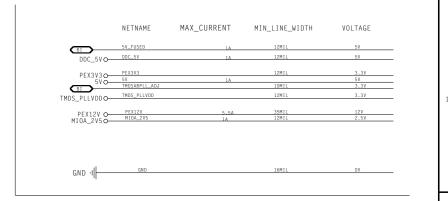
602-10456-0001-200

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

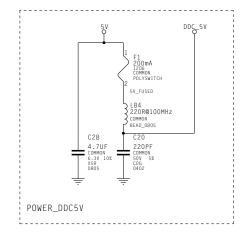




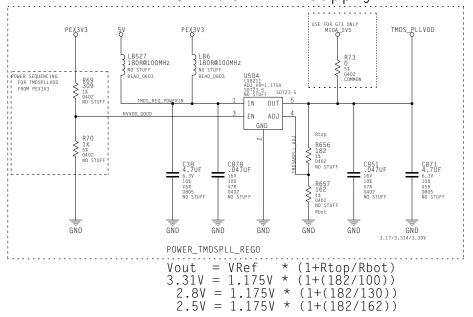
Power Supply ... TMDS, MIOA_VDDQ, DDC5V



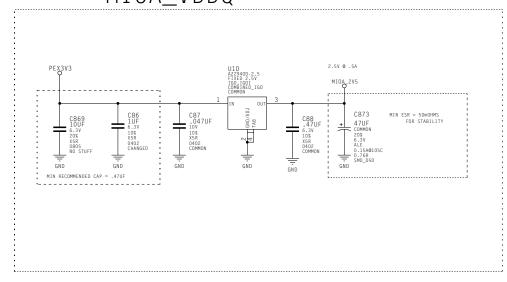
DDC 5V



TMDS AB/CD PLL Supply



MIOA_VDDQ



NVIDIA CORPORATION 2701 SAN TOMAS EXPRESSWAY

SANTA CLARA, CA 95050, USA

602-10456-0001-200

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

