31P141, NV31, 4(8,16)Mx16, 64(128,256)MB, VIDEO IN/OUT, DVI-I, VGA

Page Overview

1 31P141 OVERVIEW

2 NV31 AGP Section and AGP connector

3 NV31 FRAMEBUFFER Interface

4 MEMORY Partition A Bits 0..31

5 MEMORY Partition A Bits 31..63

6 MEMORY Partition B Bits 0..31

7 MEMORY Partition B Bits 31..63

8 NV31 DACA, DACB output, SYNC amplifier

PLL Section

9 PRIMARY DISPLAY (DACA) Filter and DB15 Connector

10 SECONDARY DISPLAY (DACB)

DACB Multiplexer Filter long DB15 Connector

11 NV31 INTERNAL TMDS Transmitter

TMDS Backdrive circuit

Hotplug detection and DVI-I Connector

12 VIDEO CAPTURE Philips 7114 I/O

13 VIDEO IN/OUT, Filter and Connector

VIDEO INTERNAL Input

14 VIP, DVO, GPIO Section

15 BIOS, STRAPPS

16 POWER SUPPLY: NVVDD, FBVDDQ, A3V3, TMDS

17 HW MONITOR

HISTORY:

A00

X00: INITIAL VERSION

X01: First Review

Replaced series resistors in sync lines with 33ohms Moved clamping diodes next to GPU

Added parallel caps to EMI filter DACB Removed not needed strap on SAA7114

Connected RESET and WP of SST ROM t o ROMVCC

Added parallel ROM and Strapps

Added FBVDD regulator

Added STEREO glasses circuit

Removed Decoupling CAPs on VIP VDD, covered by Caps on page 2

Added ROM_VCC for cleaner planes

Changed used TMDS lines of IFPA and IFPB to TP from NTP

Changed Resistor for AGP Vref circuit to 158k

X02: Final Review

Added clock termination resistors

Added net name for FBCALxxx Added cap on filter input for FB_DLLVDD, DACA_VDD & DACB_VDD

Changed netnames for SAA7114 NTPs to NTP_x xx

Added 1uF cap parallel to fan connector

Changed all xxCALxx resistors to 50 Ohms

Changed all FBxDQS*<x> to NTP_FBxDQS*<x> with NO_TEST p roperty

8912 01091600

page 14 delete original FAN control and TEMP sensor

page 15 add twin bios for MSi function

page 18 add HW monitor

8912 01110820

page 13 delete S port TV-ou and changed with Composite TV-out.

8912 01131251

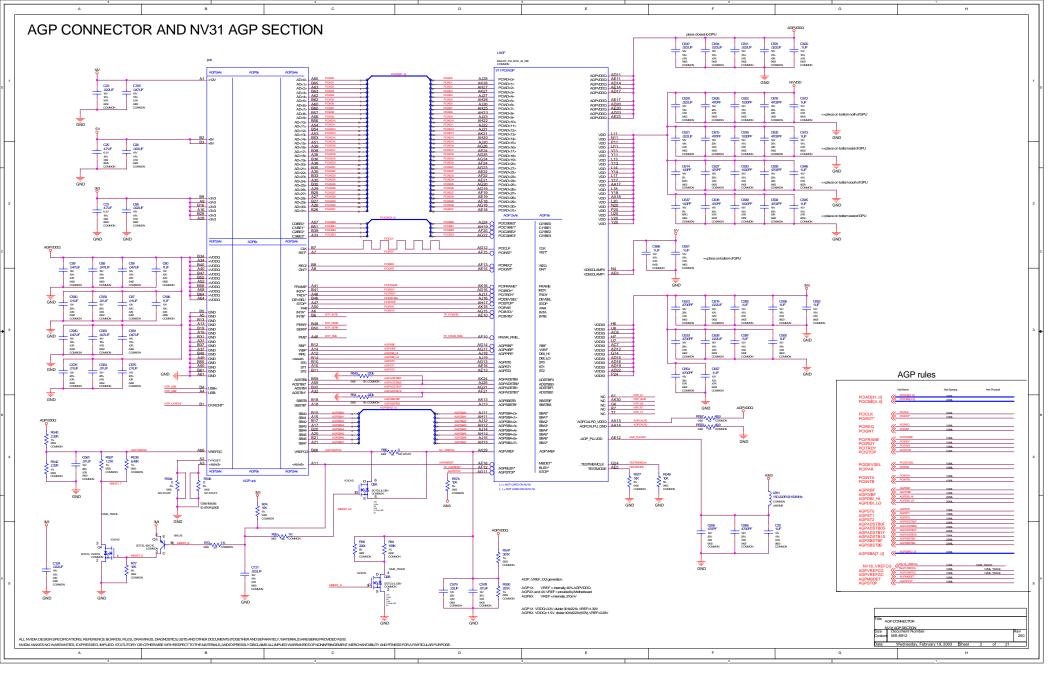
Deleted NVIDIA page 14 R580 and R582.

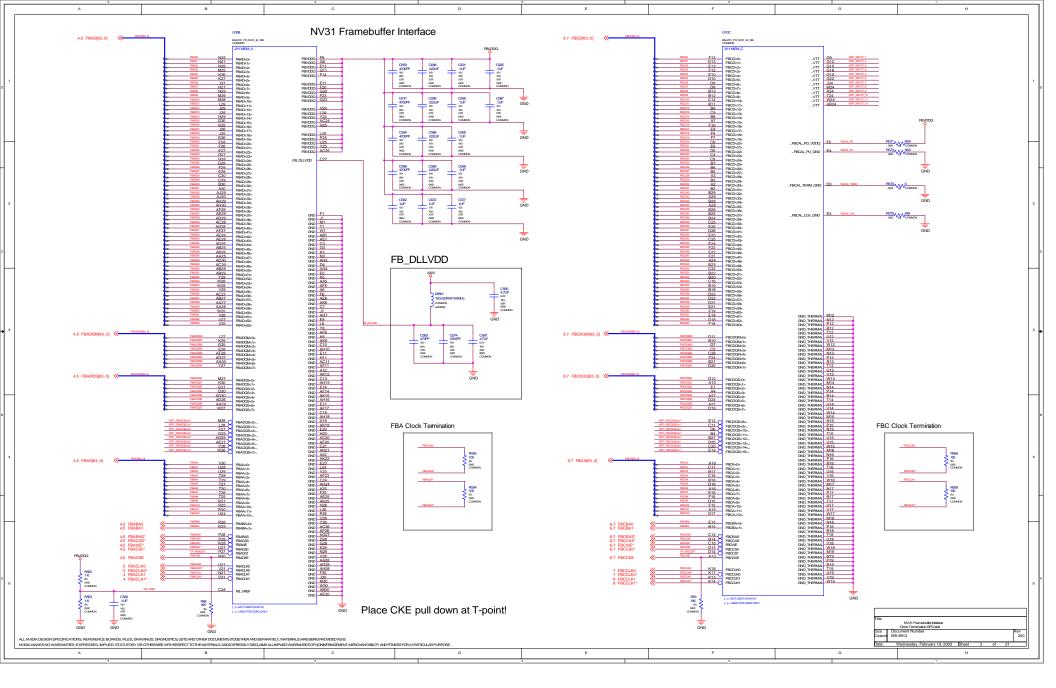
Deleted all useless net line.

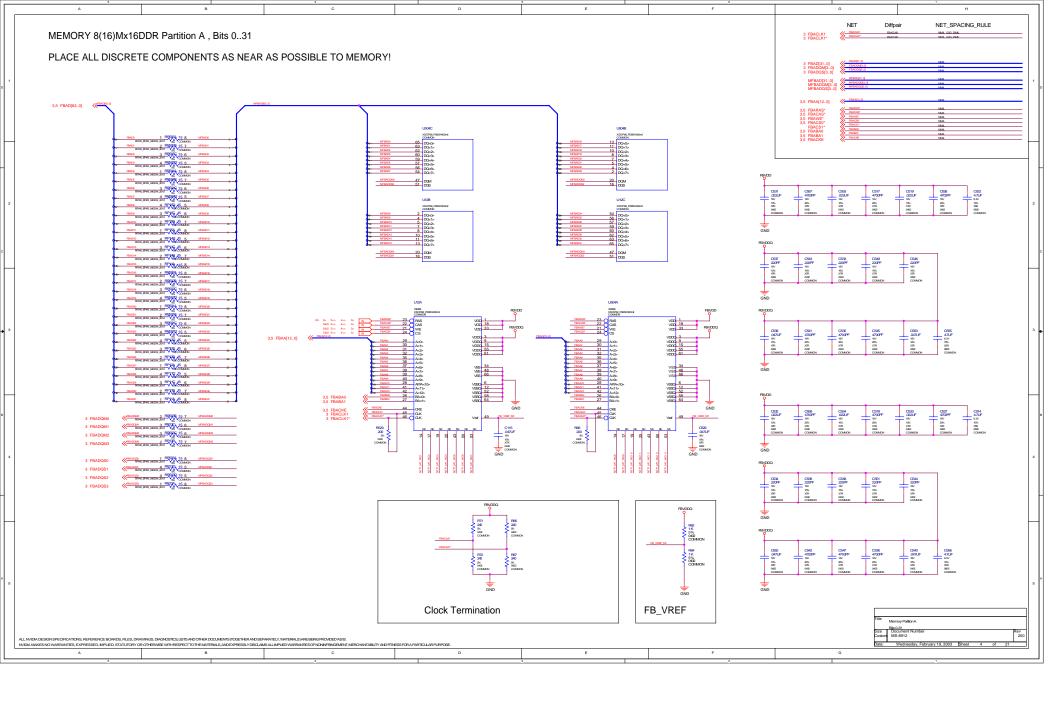
Replaced all OFFPAGE_sym with ORCAD OFFPAGE. Replaced all NVIDIA title block with ROCAD title block.

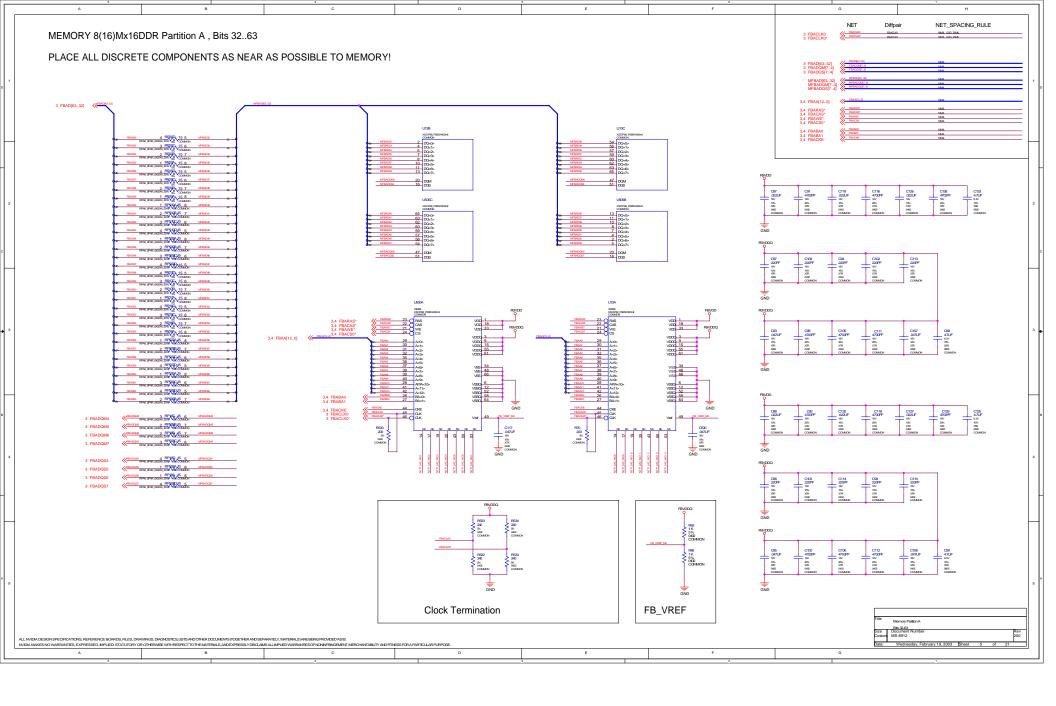
602-10141-0000-000 Base Schematic

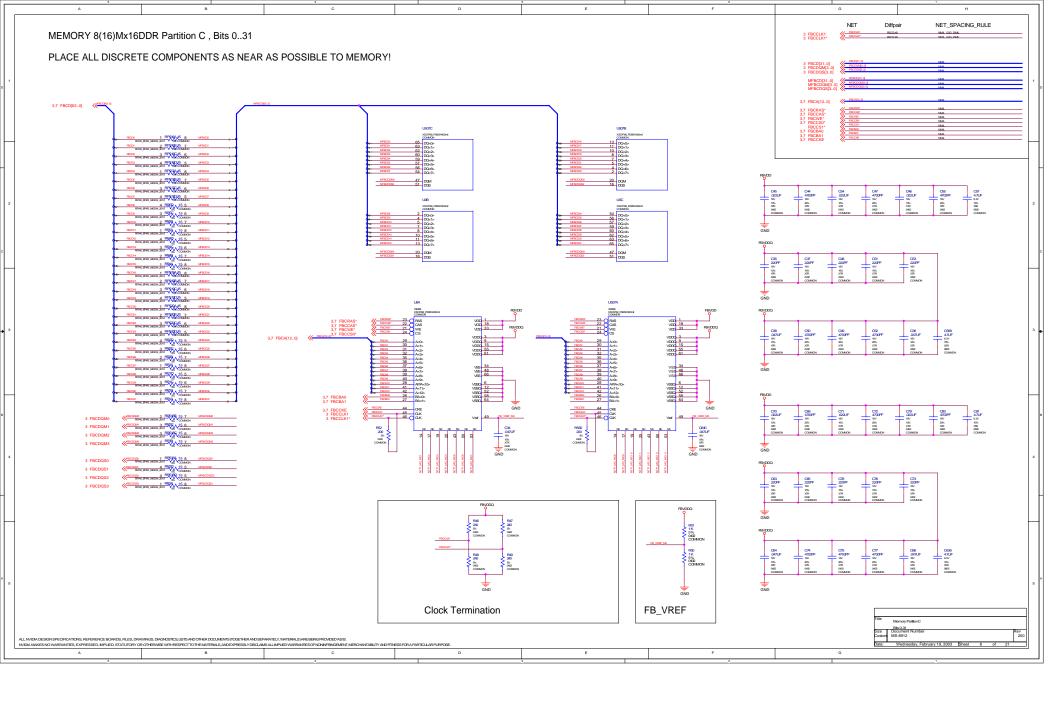
OVERVIEW

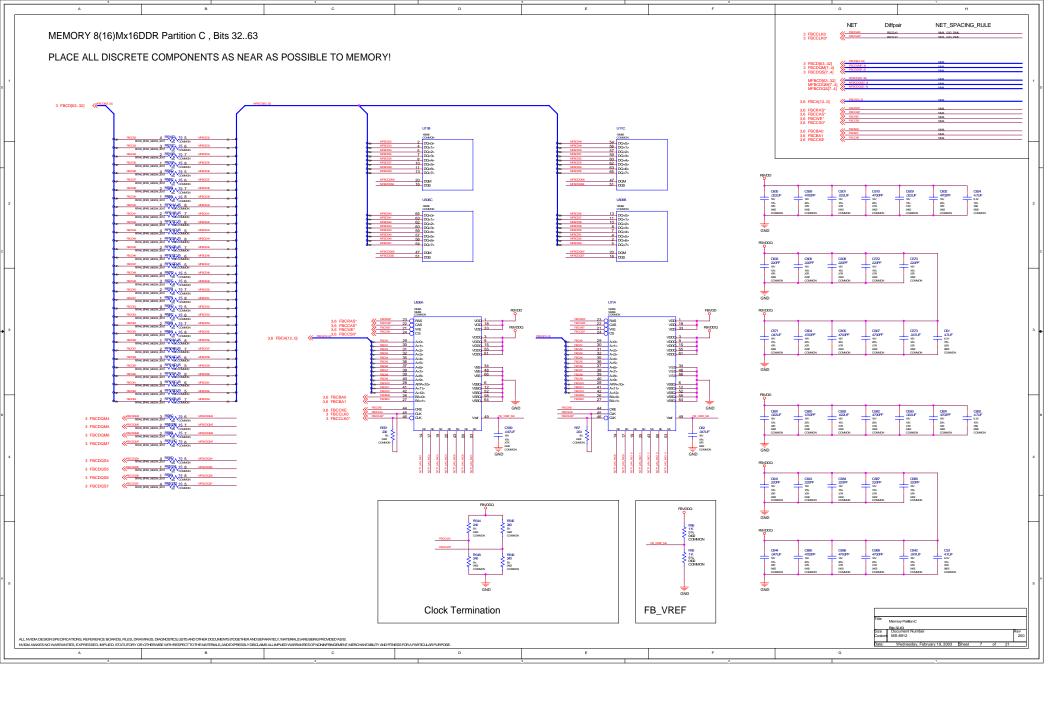


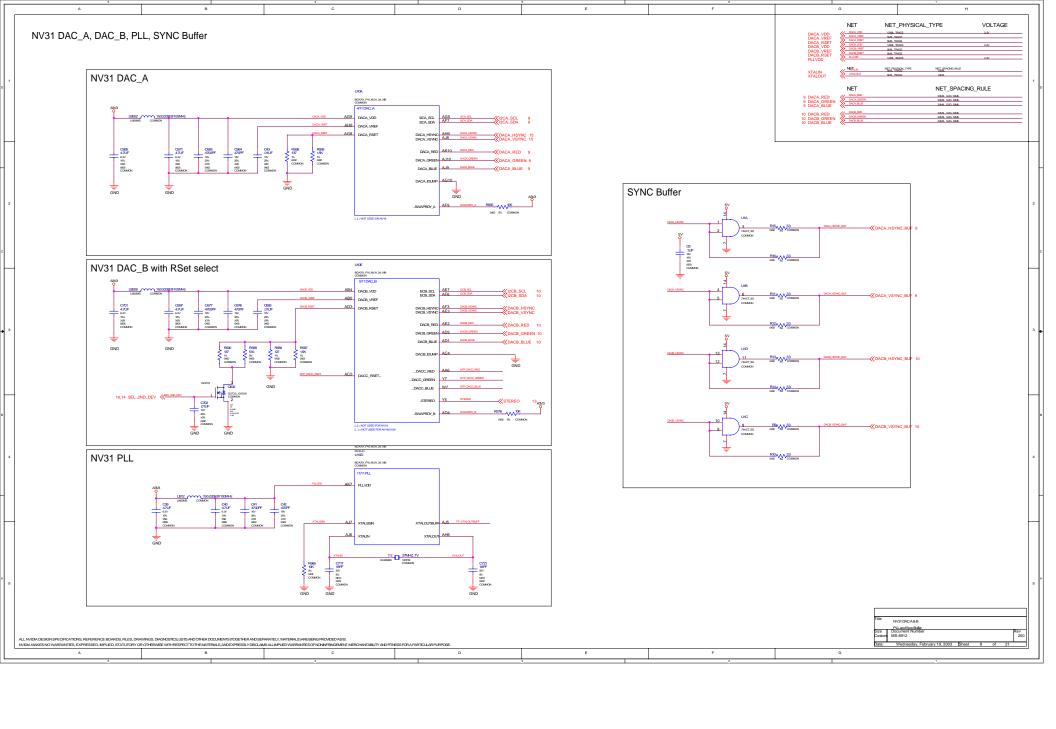


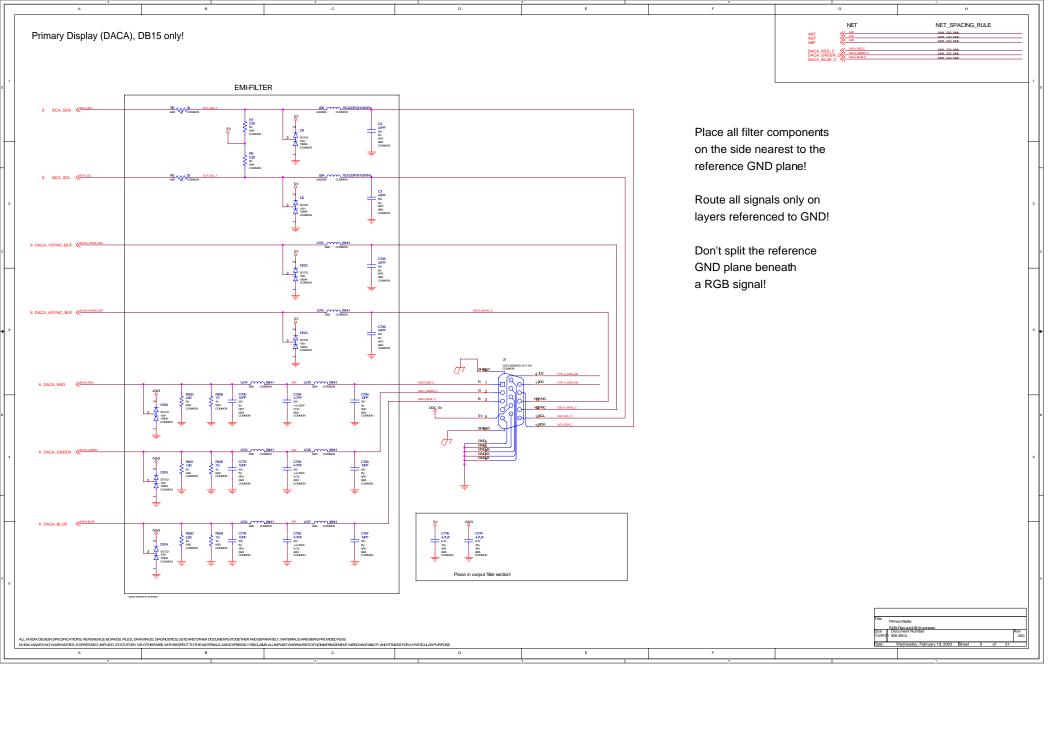


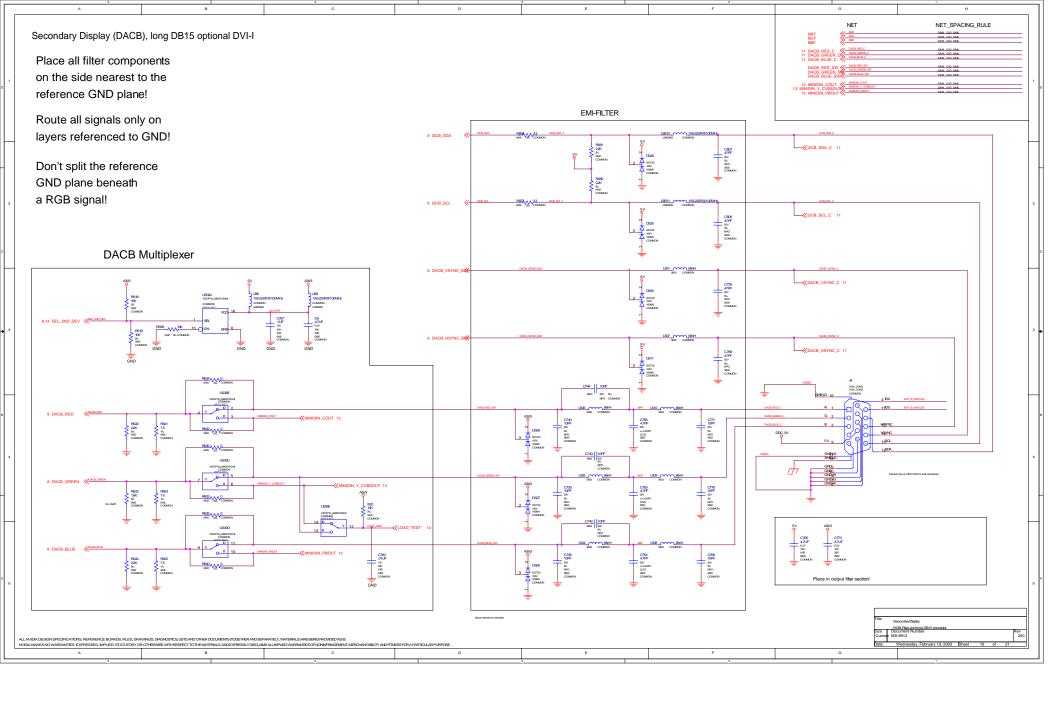


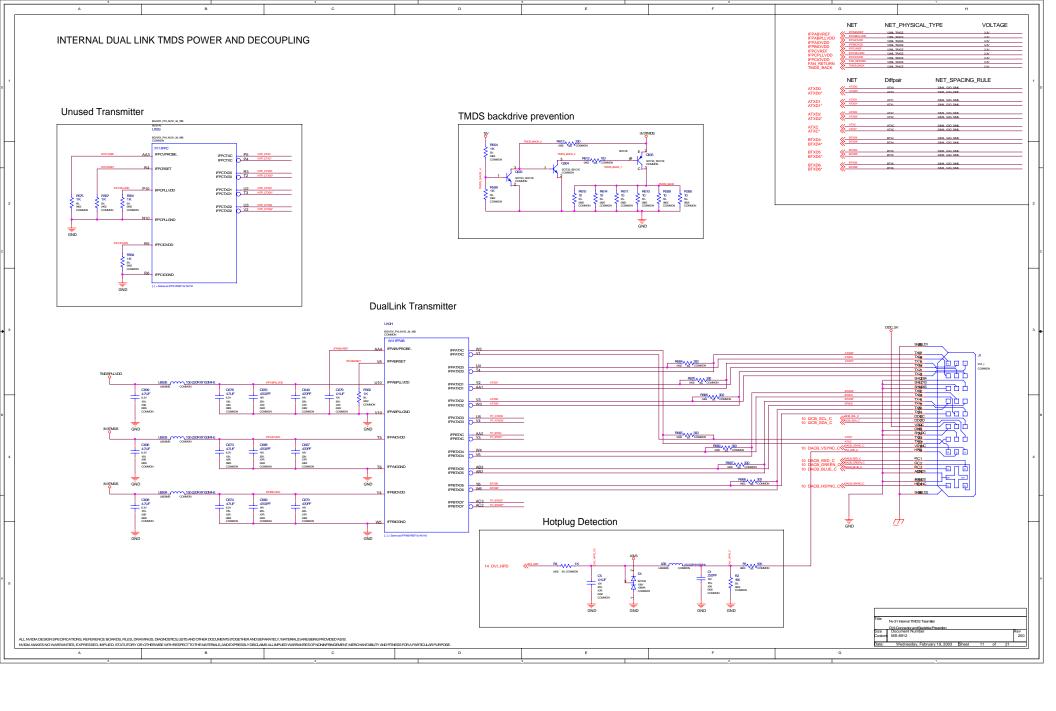


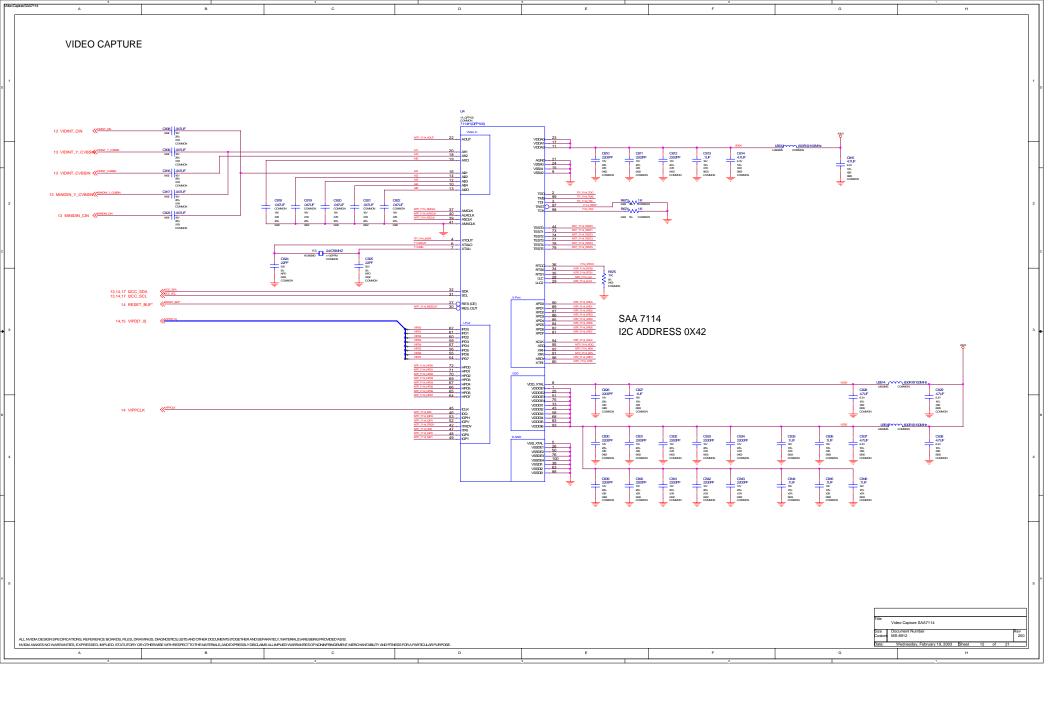


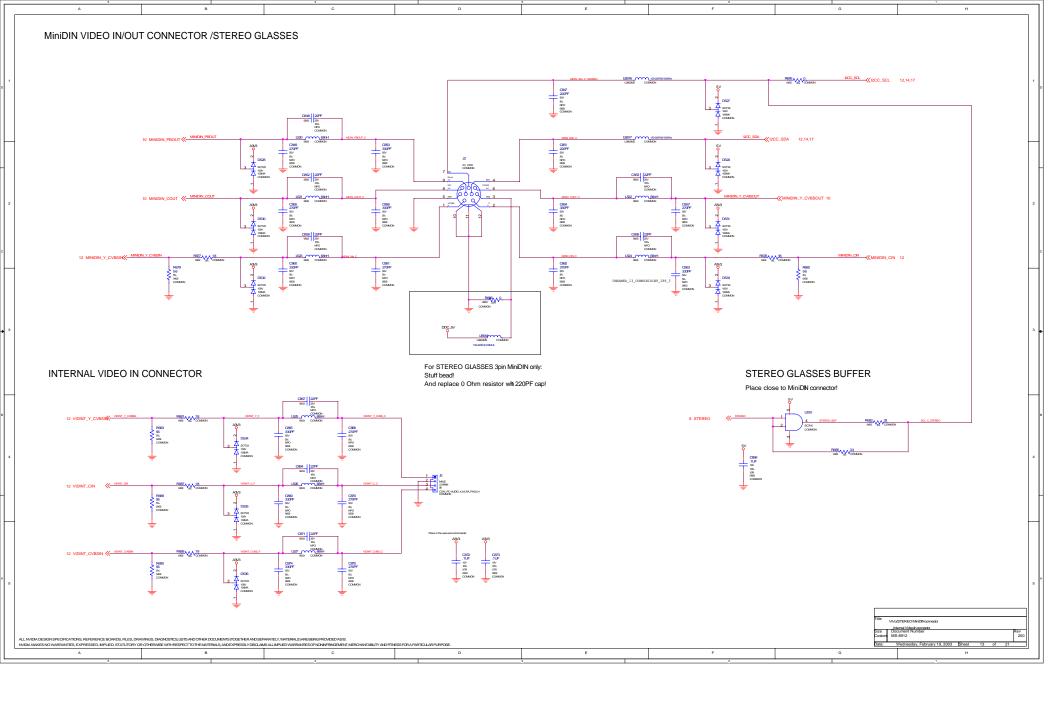


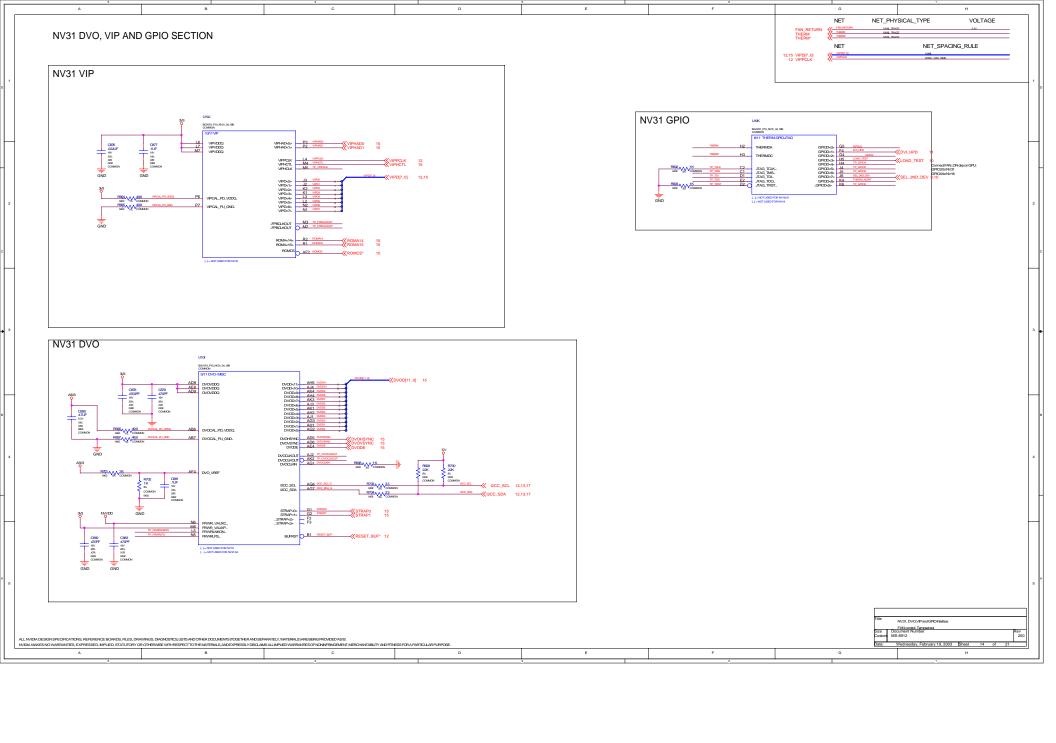


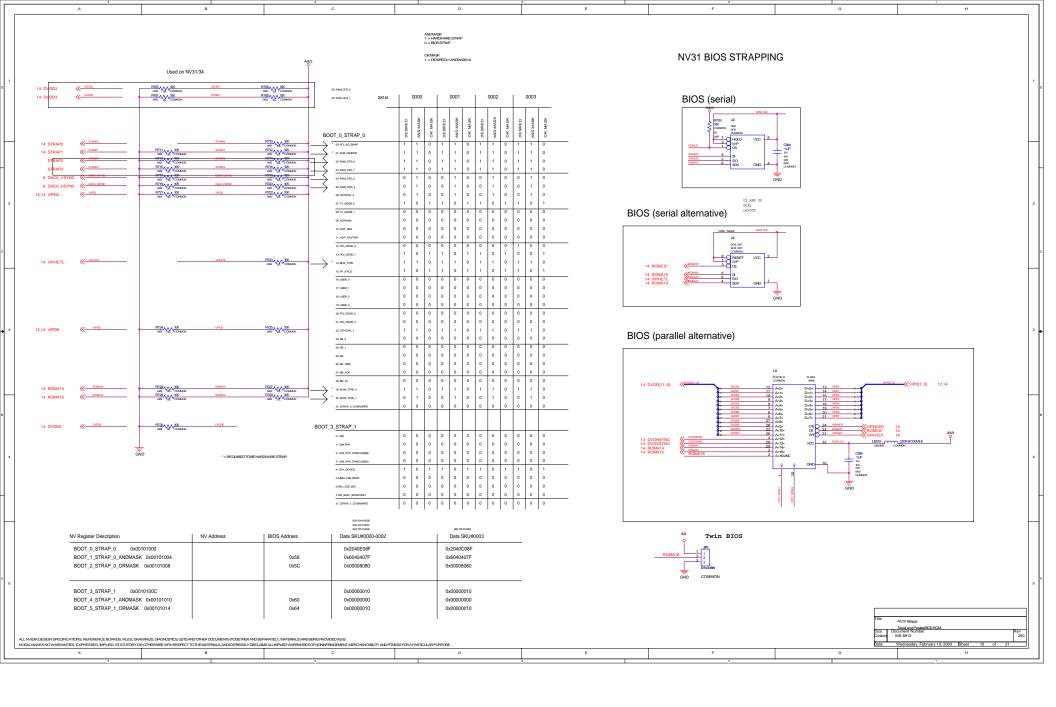


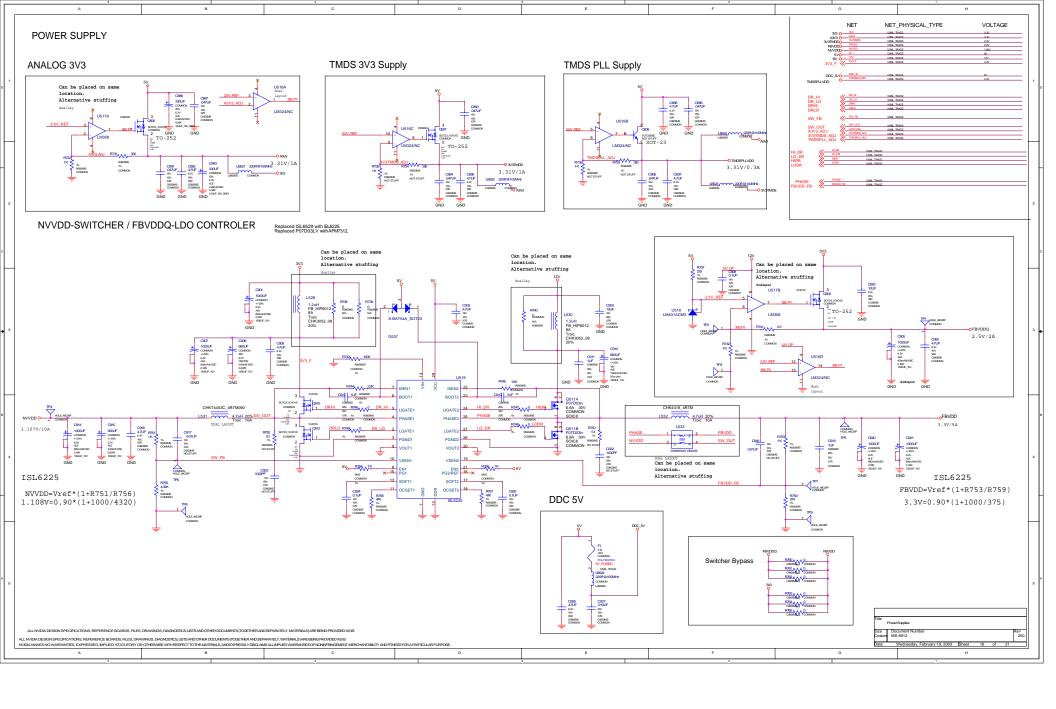


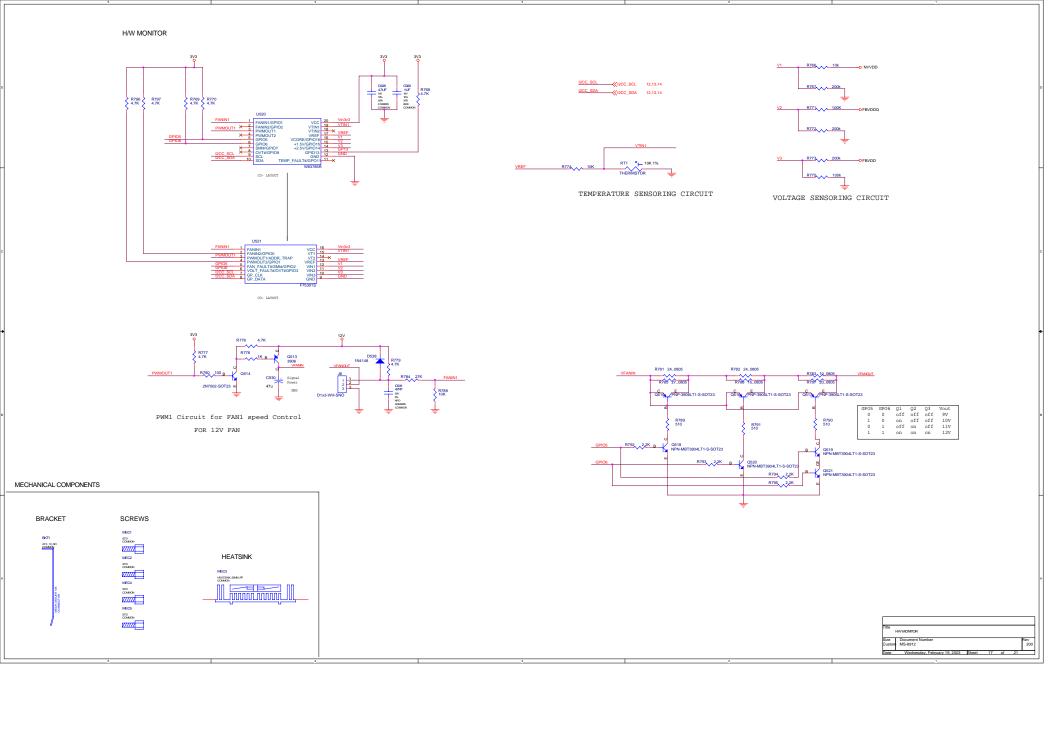












	5. A	B	4. C	3	E	2 F	G	-1	н
Г	^	<u> </u>	, and the second	5	-	· ·	-		
- 11									
	"" Signal Cross-Reference for the entire-design "	FBAA-d> 34B 43C 43E 53C 53E FBAA-d> 34B 43C 43E 53C 53E	FBADOSk7> 3.48.54A-> FBARAS' 3.58> 4.16-> 4.30-; 4.36.5.16->	FBCDQM-7> 23F7.4Ac FBCDQS-0> 23F64Ac>		MEBADOM-6- 42E-44B MEBADOM-6- 52C-54B			
	3V3TMD6_AGU 16:9G~ 96:3C 3V3_F 16:1G~ 16:3C	FBAA-65 248 430 436 530 536 FBAA-65 248 430 436 530 536 FBAA-65 348 430 436 530 536	530-53E FBAWE* 358-41G-430-43051G-	FBCDGS-d.0. 616-5 FBCDGS-d3.0. 135-5	A	MERADOM/S- 53G- MERADOM/S- 52C5/8B			
	9/_FUSED 10.1G 17.4G	FBAA-7> 34843C43E53C53E	530x53E FBCAx0x 34F63063E73073E	PROPOS 4. DOSE 44 -		MERADOMAS SZESAR MERADOMAZ SZESAR			
,	127_5 1614-5 ANV3_ADJ 1615G-162A ABF 815G-98C AGF 8.15G-98C	FBAA-db 2-88 420 436 520 526 FBAA-db 2-88 420 436 520 526 FBAA-db 2-88 420 436 520 526	FBCA<12.0> 6.1G<-6.0C 6.0C 6.0E 7.0E	FBCDQS-d> 23F 64Ac FBCDQS-d> 23F 64Ac FBCDQS-d> 24F 7.4Ac		MEBADOSci. 4204B MEBADOSci.0> 45G->			1.11
. 11	AGF 9.1G~9.4C AGPADSTB0F 23C25G~		59CA-63 (h. 34E)	EBCDOS-7 4s 74G-s		MEDIATOR-1- ASCAMB			, ,
	AGPADSTREE 23C2SG- AGPADSTREE 23C2SG- AGPADSTREE 23C2SG-	FBAA-12> 34B-43C-44E-53C-53E FBABA-0> 35B-41G-0-44C-44E-51G-0 54C-54E	FBCA-cl> 24F630 63E730 73E FBCA-cl> 24F630 63E730 73E FBCA-cl> 24F630 63E730 73E	FBCDQS-ds 24F7A4-c FBCDQS-ds 24F7A4-c FBCDQS-t2 24F7A4-c		MEDADOS-2- 42E 44B MEDADOS-3- 42E 44B MEDADOS-6- 52C 54B			
		FRANK 4: 0.00 440 - 440	FROM 44 0 4 FROM 63 FT 30 TAP	FDCD461 04D 64C - 61		APPROPRIATE FACTOR			
	AGENQUE 28.1236- AGENQUE 20.2246- AGENQUE 20.2246- AGENQUE 20.2256- AGENQUE 20.2256- AGENQUE 20.2256-	\$400.546 FRACAS* 350-41G-42651G- 530-536	FBCA-65 24F 62C 62F 72C 73E FBCA-65 24F 62C 62F 72C 73E FBCA-77 34F 62C 62F 72C 73E	FBCWE* 2.50-61G6.7	x 63E7.1Go- 5x7.3E 8	MEBADOS-05- 5205-88 MEBADOS-05- 5205-88			
	AGPRIL 20224Go	FBACKE 358-42G-0-4AC-4AE-52G-0 5AC-54E		FBVDD 16:1G-> FBVDD_FB 17:1G-> 17:3C 1					
	AGPSBA-7.0- 2AC240 AGPSBA-7.0- 2AC240 AGPSBA-7.1- 2AC240	FBACLK0 34D35b51G-54C-54E55D FBACLK0* 34D35b51G-54C-54C55D	FBCA-45> 24F63C63E73C73E FBCA-10> 24F63C63E73C73E FBCA-11> 24F63C63E73C73E	HDR 17.19-512C HP_12V 17.1417.1G-17.		MERCOAL & 6/16- MERCOAL & 6/18 MERCOAL & 6/18			
71		EDICINI DIDOM: 110 - 110 - 115 150	PRO4 40 0 0 F0 00 F0 70 70 F	UD COMP 4740 - 4740 -	26	###CDC-2> 628 62C ###CDC-2> 628 62C ###CD-4> 628 62C			
	AGPERAD- 2020 AGPERAD- 2020 AGPERAD- 2020 AGPERAD- 2020 AGPERAD- 2020 AGPERAD- 2020 AGPERAD- 2020 AGPERAD- 2020	FRACER** 34D 3580-41G-44G-44G-45D FRACS0** 3580-41G-43G-43G-51G- 53G-53E	FBCBActo 2.000 6.9Go 6.4Cc6.6E 7.9Go 7.4Gc7.4E FBCBActo 2.000 6.9Go 6.4Cc6.4E 7.9Go	HP_RT 17.9G-17.20 HP_SS 17.9G-17.20 17. HE_DR 17.9G-17.20 17.		MFBCD-65 62862C MFBCD-65 62862C MFBCD-65 62862C			
	AGPSBARD 20 24024D	530×536 FBACS1* 41G-> FBAD-0> 21B4.1A	FBCBAct 2.50 6.90 6.40 6.40 7.90 7.40 7.40 FBCCAS* 2.50 6.10 6.10 6.00 6.37 7.10 FBCCAS* 2.50 6.10 6.00 6.30 6.37 7.10 9	N_DR 17.16-0-17.20-17.2 ISCA_SCL 8.10-9.24< ISCA_SDA 8.10-9.14-		MERICO-65 628 62C MERICO-65 628 62C MERICO-75 628 62C			ΙЦ
	AGPSBSTBF 2AC25Go	FBAD-01.0> 4:90>	730×736	I2CB_SCL 83D+102Dc	1	MFBCD-8> 628 62C			
	AGPSBSTBS 24C25G AGPST0 23C24G	FBAD-03 2 14-0-4 14-0 FBAD-0> 2 18-4 2A	FBCCKE 3.5E-6.9G-6.4G-6.4E-7.2G- 7.4G-7.4E FBCCLK0 3.4G-3.5E-7.4G-7.4G-7.4E-7.5D	I2CB_SCL_C 10.3G>10.3G>10.2G= I2CB_SDA 83D>10.1D:	A A	MFBCD<6> 628 62C MFBCD<16> 628 62C			
	AGRETTO 24.02.05. AGRETTO 22.02.04. AGRETTO 22.02.04. AGRETTO 22.02.05. AGRETTO 24.02.05. AGRETTO 24.02.05. AGRETTO 24.02.05.	FRACt> 2:04:20A FRACt> 2:04:20A FRACt> 2:04:20A FRACt> 2:04:20A FRACt> 2:04:20A FRACt> 2:04:20A	FBCCLK0* 24G 3.5E> 7.1G-> 7.4C< 7.4E 7.5D	12CB, SDA 8 1305-1010C 12CB, SDA, C 102Cb, 102Cb 12CB, SDA, C 102Cb, 102Cb 12CC, SDA 123Ac-123Fc- 12CC, SDA 123Ac-123Fc-	000c Dc544F	MFBCD+10- 628 62C MFBCD+11- 628 62C MFBCD+12- 628 62C			
2	AGPSTOP 24D25Go- AGPVREFCG 24D25Go-	FBAD-65 21842A FBAD-65 21842A FBAD-65 21842A	FBCCLK1 3.4G 3.5D 6.1G-0.6AC-0.4E 6.5D FBCCLK11 3.4G 3.5D 6.1G-0.6AC-0.4E 6.5D			MFBCD:18> 628 620 MFBCD:18> 628 620			2
			FBDDS0* 2.55-6.1G			MFBCDc166 62B 62C MFBCDc166 62E 63B			
	ADDITION 240200- ADDITION 240200- ADDITION 250200- ADDITI	FINALCE 21842A	FBCCS1° 6.1G-> FBCC>0> 3.1F.6.1A		:	MFBCD:17> 626 63B MFBCD:18> 626 63B MFBCD:18> 626 63B			
	ATXC* 11.1G-c-11.3D-11.4G ATXD0 11.1G-c-11.3D-11.3G	FBAD<10> 3:842A FBAD<11> 3:842A	FBCD-01.0- 6.9G-> FBCD-03.0- 2.9G-> 6.9A->	FP-00/VIDI 11.140-11.24 FP-00/VIDI 11.150-11.24 FP-00/VIDI 11.160-11.24 FP-00/VIDI 11.160-11.24 FP-00/VIDI 11.160-11.24 LOAD_TEST 10.050-14.24 LOAD_TEST 10.0	A	MFBCD<20> 626 63B			
	ATXD0* 11.1G-c-11.2D-11.2G ATXD1 11.1G-c-11.2D-11.2G	FBAD:12> 3:842A FBAD:13> 3:842A	FBCD<1> 2:F62A FBCD<2> 2:F62A	LOAD_TEST 905D+14394; LODR 17:5G17:2D LO_DR 17:5G17:2D:17:	:	MFBCD<25 62E 63B MFBCD<25 62E 63B			
		FBAD-12> 2184-2A FBAD-14> 2184-2A FBAD-15> 2184-2A FBAD-16> 2184-2A	FRCCS** 6180- FRCCS** 6180- FRCCS** 6180- FRCCS** 6180- FRCCS** 3476.A FRCCS** 3476.A FRCCS** 3476.A FRCCS** 3476.A FRCCS** 3476.A FRCCS** 3476.A	MFBAD+0> 4:9420	1	MFBCD-28- 62E 63B MFBCD-28- 62E 63B			c
	ATXD2* 11.1Gc-11.3G 11.4D BBF 92.1Gc-10.5E BGF 10.1Gc-10.4E	FBAD<16> 31843A FBAD<17> 31843A	FBCD<6> 2:F62A FBCD<6> 2:F62A	MFBAD-01.0> 4.1G-> MFBAD-00.0> 4.1B		MFBCD-26> 62E 63B MFBCD-26> 62E 63B			
	BBF 9550-95E BBF 1570-95E	FBAD-100 2 316-3A FBAD-100 2 316-3A FBAD-100 2 316-3A FBAD-200 2 326-3A	FBCD<2> 2:F62A FBCD<8> 2:F62A	MFBADC415 4:28 42C MFBADc45 4:28 42C MFBADc25 4:28 42C		MFBCD-28 - 626 638 MFBCD-28 - 626 638			
	BRF 10.150-90.4E BTXD4 11.2G11.4D11.4G	FBAO-21> 32843A FBAO-21> 32843A	FRCCO-0- 3 FE GA FRCCO-7- 3 FE GA FRCCO-7- 3 FE GA FRCCO-7- 3 FE GA FRCCO-9- 3 FE GA FRCCO-9- 3 FE GA FRCCO-10- 3 FE GA FRCCO-10- 3 FE GA FRCCO-10- 3 FE GA	MFBAD-45- 428 42C MFBAD-45- 428 42C		MFBCD-29> 626 638 MFBCD-20> 626 638			
	BTXD4 112G-114D 114G BTXD4' 112G-113G 114D BTXD5 112G-114D 114G	FBAD-22> 2384.3A FBAD-22> 2384.3A FBAD-22> 2384.3A	FBCD<12> 2.1F62A FBCD<12> 2.1F62A	MFBAD-65- 42B 42C MEBAD-65- 42B 42C	1	MFBCD-31> 62E 64B MFBCD-32> 7.98.73C			
			FBCD<12> 2.1F6.2A FBCD<14> 2.1F6.2A	MFBAD-75 428 42C MFBAD-86 428 42C MFBAD-86 428 42C		APPROVING TARTAC -			
	BTXD6 112G-11AD 11AG BTXD6* 112G-11AD 11AG DACA_BLUE 8:1G-82D-95Ac		FROCH-12 AFEAN FROCH-14 AFEAN FROCH-16 AFEAN FROCH-16 AFEAN			MFBCD-26 728 72C MFBCD-26 728 72C MFBCD-26 728 72C			
	DMA, BLEG. 2 916-960 DADA, GREEN 815-6 820-944c	FBAD-28> 32843A FBAD-29> 32843A	FBCD-172 AFFGA	MFBAD-115 428 42C MFBAD-115 428 42C MFBAD-126 428 42C MFBAD-126 428 42C		MERICO-GES - 7.28 7.20 MERICO-GES - 7.28 7.20 MERICO-GES - 7.28 7.20			
3	DACA_GREEN_C 91G->93D DACA_MSWAC 91D-992150A->1599	FBAD-285 2284-3A FBAD-285 2284-3A FBAD-285 2284-3A FBAD-215 2284-4A	FBCD-115 - 34F6JA FBCD-180 - 34F6JA FBCD-180 - 34F6JA FBCD-040 - 34F6JA			MFBCD-08> 7.08.7.00 MEBCD-08> 7.08.7.00			3
	DACA_HENNO_BEF123G-1628 DACA_HENNO_BEF123G-163H- DACA_RED_C 8:1G-6:2D-9:3H- DACA_RED_C 8:1G-9:2D-	FBAD-02> 3285-1A	FBCD<21> 22FG3A FBCD<21> 22FG3A	MFBADc+66 428 420 MFBADc+156 428 420 MFBADc+166 426 438 MFBADc+17 426 438	A	MFBCC0-65- 728 72C MFBCC0-65- 728 72C MFBCC0-65- 728 72C			
	DACA_RED_ 8:16-6-8:200-9:34-c DACA_RED_C 8:26-9:320 DACA_REST 8:10:8:16	FBAD-022 2285-1A FBAD-023 2285-1A FBAD-023 2285-2A FBAD-024 2285-2A	FROCO-21+ 3FE-SA FROCO-22+ 3FE-SA FROCO-22+ 3FE-SA FROCO-24+ 3FE-SA	MFBAD-16:- 4.2E 4.3B MFBAD-17:- 4.2E 4.3B MFBAD-16:- 4.2E 4.3B		MFBCD-665 72872C MFBCD-665 72872C			
	DACA_REST 8:06:160- DACA_UD 8:108:160- DACA_UREF 8:06:160-	FBAD-35> 328.52A	FBCC<25> 22FG3A	MFBADc1b> 4.26 4.3B MFBADc1b> 4.26 4.3B MFBADc2b> 4.26 4.3B	^	MFBCD-66- 72872C MFBCD-66- 72872C MFBCD-66- 72872C			
	DACA_VEREF 8:10.614G-> DACA_VENDC 8:20-8:29*15:24615:28 DACA_VENDC 8:28*15:24615:28	FBAO-355 32852A FBAO-385 32852A FBAO-375 32852A FBAO-375 32852A	FBCD-225- 33F63A FBCD-286- 33F63A FBCD-27>- 33F63A	MFBAD-20> 42E 43B MFBAD-21> 42E 43B MFBAD-22> 42E 43B		MFBCD-66- 73873C MFBCD-66- 73873C MFBCD-67- 73873C			
	DACE_USE_E BLG-BBLO-1054c DACE_BLUE_C 1950-0010-1054c DACE_BLUE_C 1950-0010-114Gc		FBCD<28> 22F63A FBCD<28> 22F63A	MFBAD-22> 42E 43B MFBAD-22> 42E 43B MFBAD-24> 42E 43B	^	MFBCD-49> 726 738 MFBCD-49> 726 738			
41		FBAD-40> 23852A FBAD-40> 23852A FBAD-41> 23852A	FECONO. 32FAA.		A	MFBCD<50> 7.26 7.38			Ш
	DACE_GREEN 8:1G~8:20:10:40A~ DACE_GREEN_G 10:1G~11:4G	FRAC-422 328.53A FRAC-432 328.53A FRAC-442 328.53A FRAC-465 328.53A FRAC-465 328.53A	FBCD-02> 22F7.1A FBCD-03.32> 7.5A>-7.5G>	MFBAD-285- 42E 43B MFBAD-275- 42E 43B MFBAD-285- 42E 43B	:	MFBCD-51> 7.56 7.38 MFBCD-52> 7.56 7.38 MFBCD-53> 7.56 7.38			
	DACB_HSYNC 8:3D>8:3F	FBAD-46> 32852A FBAD-46> 32852A	FBCD<23> 22F72A FBCD<24> 22F72A	MFBAD-29> 4.2E 4.3B	1	MFBCD<56> 7.26 7.38			в
	DACB_HEYNO_DUF 8.00+1000+ DACB_HEYNO_C 10.00+10.00+11.40+ DACB_RED 8.1G+8.00+10.4A+	FBAD-06> 32852A FBAD-06> 32852A FBAD-06> 32853A	FBCD-286- 3,2F7-2A FBCD-286- 3,2F7-2A FBCD-277- 3,2F7-2A	MFBAD-20:- 425-43B MFBAD-21:- 425-44B MFBAD-22:- 5:85-52C	;	MFBCD<250 726 738 MFBCD<250 726 738 MFBCD<257 726 728 MFBCD<257 72			
			FBCD<27> 22F72A FBCD<28> 22F72A						
	DACB_RSET 8.1G-0.83C	FBAD<50> 33B53A FBAD<51> 33B53A	FBCD <ab- 22f72a="" 22f72a<="" fbcd<40-="" td=""><td>MFBAD-20- 528 52C MFBAD-20- 528 52C</td><td></td><td>MFBCD<60- 72673B</td><td></td><td></td><td> </td></ab->	MFBAD-20- 528 52C MFBAD-20- 528 52C		MFBCD<60- 72673B			
$\ \ $	DACE_VED 8:1G->8:3C DACE_VEEF 8:4G->8:3C	FBAD-655 2385-3A FBAD-655 2385-3A FBAD-652 2385-3A FBAD-652 2385-3A	FRECO-Libr - 207 2A FRECO-Libr - 207 2A	MFBAD-285 528 520 MFBAD-285 528 520	A A	MFBCD-66> 7.267.3B MFBCD-62> 7.267.3B			
*	DACE VENUE - 810-84E	FBAD-654> 23B.53A FBAD-655> 23B.53A FBAD-656> 23B.53A	FBCD<45> 22F72A FBCD<44> 22F72A FBCD<46> 22F72A	MEDAD-17- 539.530		MFBCDOMio 72674B MFBCDOMio 62064B MFBCDOMicl.o 63Go-			4
	DACE_VSYNC_BUF 8.455-1000x DACE_VSYNC_C 1930s-1930s-11.46x DRH 16.15-s-16.40	FBAD-66> 33853A FBAD-67> 33853A	FBCD-46> 22F72A FBCD-46> 22F72A	MFBAD-38- 5.28 5.20 MFBAD-39- 5.28 5.20 MFBAD-40- 5.28 5.20					
	DRIA 16.5016.00 DRIA 16.5016.00 DRIA 16.5016.30	FRAC-685 238.53A FRAC-685 238.53A FRAC-685 238.53A FRAC-695 238.53A FRAC-615 238.53A	FELON-60- 2.07-2A FELON-60- 2.07-2A FELON-61- 2.07-2A FELON-60- 2.07-2A FELON-60- 2.07-2A FELON-60- 2.07-2A	MFBAD-45 5.28 5.20 MFBAD-45 5.28 5.20 MFBAD-45 5.28 5.20	1	MFBCDOM-2> 626.4B			
		FBAD-60> 33853A FBAD-61> 33853A	FBCD<40> 22F73A FBCD<50> 23F73A			MFBCDQM-46- 72C7/8B MFBCDQM-7 4- 73G-3			
	DVDD-05- 14-4C 153F DVDD-11-0- 14-3D-153F-c	FBAD-62> 23B53A FBAD-63> 23B5AA	FBCO<51> 23F72A FBCO<52> 23F73A	MFBAD-465 - 52B 52C MFBAD-465 - 52B 52C		MFBCDOM-65 7207/48 MFBCDOM-65 7207/48			
	DVDD-ct 1440 153F	FBADOM:0> 238.44Ac		MFBAD-47> 528.520		MFBCDOM-2> 7267/88			
\dashv	DVDD-GS 144C 15.4Cs 15.4B 15.4F DVDD-GS 144C 15.4C 15.4B DVDD-GS 144C 15.4F DVDD-GS 144C 15.4F	FBADDM413.0> 33A- FBADDM413.0> 33B-44A-	FB00-66- 23F73A FB00-66- 23F73A	MFBAD-40> 526.538 MFBAD-50> 526.538		MERCOSALO - 61G-> MERCOSALO - 61G->			HI
		FBADOM-2> 338 44A- FBADOM-2> 338 44A-		MFBAD-555 526 538 MFBAD-555 526 538	A	MERCODI-C: 6256-88 MERCODI-C: 6256-88			
	DVDD-db 18-02 18-05	FBADDMcto 33854Ac FBADDMc7.do 51Go	FRECO-689- 23F73A FRECO-689- 23F73A FRECO-681- 23F73A	MFBAD-555 526 528 MFBAD-555 526 528		MFBCDG6-b 72C7/8B			
	DVDD-85 1430 164F	EBADOMAS 1985AL	FBCD-661> 23F73A FBCD-661> 23F7.3A	MEDAD-50, COLCOR	A	WEBCOOKE 7307/B			
	DVDDc10- 1430 154F DVDDc11- 1430 154F DVDDE 1440-154B	FBADOMois 238 54Ac FBADOMoi> 238 54Ac FBADOSoi> 238 44Ac>	FROCHASE JAFFAN FROCHASE JAFFAN FROCHASE JAFFAN FROCHASE JAFFAN FROCHASE ASFAS	MFBAD-55> 5.25.53B MFBAD-57> 5.25.53B MFBAD-56> 5.25.53B	^	MRICOCK-0- 7207-8 MRICOCK-0- 7207-8 MRICOCK-0- 7207-8 MRICOCK-0- 7207-8 MRICOCK-0- 7207-8			
			FBCDQM-02-0-05G->	MFBAD<59> 5.2E 5.3B		MINION_CIN 12-2A-132Gs MINION_COULT 10-1G-0-10-4Cs-13-2Bs MINION_PROUT 10-1G-0-10-5Cs-13-2Bs			
5	DVOVSYNC 944C0-154Fc FAN_BETURN 11:1G-0-14:1G-0-14:3F FBAA-Sb- 24B-13C 43E 53C 53E	FBADQS-(3.0) 23A-> FBADQS-(1) 23B 44A->	FBCDQM-62.0- 33E> FBCDQM-61- 33F 64Ac FBCDQM-62- 33F 64Ac	MFBAD<60> 526 538 MFBAD<60> 526 538	1	MNDN_Y_CV85N 122Ac 132b-			5 A
	FBAAc12.0> 4.1Go-4.3Cc4.3E.51Go-5.3Cc	FBADOS-2> 138.44A->		MFBAD-62> 5.26.538 MFBAD-63> 5.26.548		MINDN, Y_CVBSOUT 10.1G-> 10.4C-> 13.2F-<			1
	53E FBA4453.0> 3.44>	FBADQSob 34B54Ao FBADQSc7.4b 51Go	FROCOMAN-6 3877-Ak- FROCOMA-6 3877-Ak- FROCOM-6 3877-Ak- FROCOM-6 3877-Ak-	MFBADQMcb 42C44B MFBADQMc3.0-41Go-	8	NAVIDD 16.1G-> DDSET 17.1G-> 17.2C PCIAD-db> 2.1C2.1D			
	FBAAct> 348.435.436.530.536 FBAAc2> 348.430.436.530.536	FBADOS-IS> 3-RB S-IA-IS> FBADOS-IS> 3-RB S-IA-IS>	FBCDQM-65- 33F7.4Ac FBCDQM-65- 33F7.4Ac	MFBADQM-ts 42C44B MFBADQM-2s 42E44B	s	PCIAD-00 2:02:10 PCIAD-01.00 2:02:46-0			——————————————————————————————————————
								Title DRAWINGDETAIL	
Ι,								Size Document Number	Rev
	ALLINIDA LEBON SPECIFICATION, REFERENCE BOARDS, FLES, DRIVINGS, DIFFORMATION, METERAL SHORD FRESCHING MARKET IN BOOK SHORD F								
L.	A A	WITH RESPECT TO THE MATERIALS, AND EXPRESSLY DISCLAN	NS ALL IMPLIED WARRANTIES OF NONNFRINGEMENT, MERCHANTABILITY AND FITNESS FOR C	D D	E	F	G	veuiosoay, rebruary	H
	5		1			2	1	<u>_</u>	

	· · · · · · · · · · · · · · · · · · ·				,			 	
	A	В	C D		E		F	G	н
1 1									
1 11	*** Deet Corea. Defense on for the entire design ***					ONLOON AGE 2			
	*** Part Cross-Reference for the entire design ***	C113 C 4	C226 C 7 C227 C 7 C228 C 7	C339 C 13		ONI CON AGP 2			
1 11	BKT1 BRACKET 17	C115 C 4	C228 C 7	C340 C 13 C341 C 13		DI DUPNACO DI DUPNACO			
		GINC 6 GI							
	C2 C 2	C117 C 4	C230 C 7	C343 C 13		DI DJPN AC9			
	C4 C 2	C119 C 4	C230 C 7 C231 C 7 C232 C 7	C343 C 13 C344 C 13 C345 C 13		DI DJPNJAG9 DS DJPNJAG9 DS DJPNJAG9			
1	C5 C 2	C120 C S	C233 C 7	C346 C 13		D7 D,3PN,AC9			1
·	C1 C 2 C3 C 2 C3 C 2 C3 C 2 C4 C 2 C4 C 2 C4 C 2 C4 C 2 C5 C 2 C6 C 2 C6 C 2 C7 C 2 C8	C121 C S	C223 C 7 C234 C 8 C235 C 8	C346 C 13 C347 C 13 C348 C 13		D7 D,3PN,AC9 D8 D,3PN,AC10 D9 D,3PN,AC10			
	CB C 2	C123 C 5	C236 C 8						
	C9 C 2	C124 C S	C237 C 8	C350 C 13 C351 C 13		D11 D_3PIN_AC10 D12 D_3PIN_AC10			
	C10 C 2	C125 C	C238 C 8						
	C12 C 2	C127 C 5	C240 C 8	C353 C 13		D14 D_3PN_AC10			
	C13 C 2	C128 C 5	C241 C 8	C353 C 13 C354 C 13 C355 C 13		DIS D_3PN_ACH			
	C14 C 2 C15 C 2	C129 C S	C242 C 8	C355 C 13		D16 D_3PN_AC13			
	C16 C 2	C131 C 5	C244 C 8	C356 C 13 C357 C 13		D13 D_JRN_AC10 D14 D_JRN_AC10 D15 D_JRN_AC11 D16 D_JRN_AC13 D17 D_JRN_AC13 D18 D_JRN_AC13 D19 D_JRN_AC13			
-	C17 C 2	C132 C 5	C245 C 8	C358 C 13 C359 C 13		D19 D_3PIN_AC13 D20 D_3PIN_AC13			H
	C18 C 2 C19 C 2	C136 C S	C246 C 8 C247 C 8	C359 C 13					
	C20 C 2	C135 C 5	C248 C 8	C361 C 13		D21 D_3PN_AC13 D22 D_3PN_AC13 D23 D_3PN_AC13			
	C21 C 2	C136 C S	C249 C 9	C360 C 13 C361 C 13 C362 C 13 C363 C 13		D23 D_3PN_AC13	I		
1	C22 C 2	CHIZ C S CHI	CONF C 8 CON			D24 D 54 D25 D_SCHOTTKY16 D26 D 96			F
	C24 C 14	C139 C 5	C252 C 9	C200 C 14		D26 D 16			
	C25 C 2	C140 C S	C253 C 9	C368 C 14			I		
	C2F C 2	C141 C S	C255 C 9	C369 C 14 C371 C 14		D28 D 16 D29 D_SCHOTTKY16			
	C28 C 2	C143 C 5	GST C 8 GST C 9 GST C 9 GST C 9 GST C 8 GST C 8	C368 C 16 C369 C 16 C371 C 16 C372 C 16 C373 C 16		D28 D 16 D29 D_SCHOTTKY16 D30 D_SPN_AC13 D31 D_SPN_AC13			
2	C29 C 2	C144 C S	C257 C 9	C373 C 14 C374 C_POL 16		D91 D_3PIN_AC13	I		2
	C31 C 2	C146 C S	C259 C 9	C375 C_POL 16		D94 D_SCHOTTKY17	I		
ПП	C32 C 2	C147 C 5	C260 C 9			F1 F_POLYSW 17 J1 CON DSUB194D9			
ιП	C24 C 2	C148 C 5 C149 C 5	C002 C 9	C377 C 16 C378 C POL 16		JE CON DSUB194D9	I		
ιП	C26 C 2	CHIC S	C263 C 9	C377 C 16 C378 C_POL 16 C379 C_POL 16 C389 C_POL 16		£ CON_DSUB194010 £ CON_DVI_I11	I		
ιП	C36 C 2	CISI C S	C264 C 10	C360 C_POL 16		JA CON_MINDIN_913 JE HDR_0X4 13	I		
	CSF C 2	C152 C 5	C266 C 10	C381 C 16 C382 C 16		JB HDR 192 14			
\square	C29 C 2	CHA C 5 CHS C 6	GS 6 2 8 GS 6 GS	C383 C 16 C384 C 16 C385 C 16 C385 C, POL 16 C387 C 16		J7 HDR_502 54 L1 L 9 L2 L 9 L3 L 9 L4 L 9	I		 c
	C40 C 2	C155 C 5	C268 C 10	C384 C 16		Li L 9			
	GH C 2 GH2 C 2	C156 C 5	C270 C 10	C386 C_POL 16		13 1 9			
	G43 C 2	C158 C 6	C271 C 10	C387 C 16		L4 L 9			
	044 C 2	C159 C 6	C272 C 10 C273 C 10	C388 C_POL 16 C389 C_POL 16		LS L 9			
	C46 C 2	CHI C 6	C274 C 10 C275 C 10	C390 C 16 C391 C POL 16		LF L 9 LB L 9 LB L 10 L10 L 10 L111 L 10 L12 L 10 L13 L 10			
1 11	047 C 2	C162 C 6	C275 C 10	C391 C_POL 16		LB L 9			
1 11	C48 C 2	C163 C 6	C276 C 10 C277 C 10 C278 C 10	C362 C_POL 16 C393 C 16 C394 C 16		L9 L 10			
1 11	C50 C 2	C165 C 6	C278 C 10	C394 C 16		L11 L 10			
	CSI C 3	C166 C 6	C279 C 10 C280 C 10 C280 C 10 C281 C 10 C282 C 11	C395 C 16 C396 C 16		L12 L 10			
1 11	CS2 C S	C168 C 6	C201 C 10	C396 C 16		L14 L 10			
. 3	C54 C 3	C169 C 6	C282 C 11	C397 C 16 C398 C 16		L15 L 10			3 4
1 1	C55 C 2	C170 C 6	C283 C 11	C369 C_POL 16		L16 L 10			
	C56 C 3	Gall C	GBJ C 11 GBG C 11	C399 C POL 16 C400 C 16 C401 C 16		L10 L 13			
	CSB C 3	C173 C 6	C286 C 11	C402 C 16 C403 C 16 C404 C 16		L19 L 13			
	CS9 C 3	C174 C 6	C287 C 11	C403 C 16		120 L 13			
	C61 C 2	CITIN C 6	Case C 11			L22 L 13			
	062 C 2	C177 C 6	C290 C 11	C406 C 16 C407 C 16 C408 C 16		L23 L 13			
	060 C 2	C178 C 6	C291 C 11	C407 C 16		124 L 13			
1 11	C85 C 2	C180 C 6	C290 C 11			L26 L 16			
1 11	C66 C 2	C181 C 6	C294 C 11	C410 C POL 16 C411 C 16		L27 L 17			
ШΙ	COP C 3	C182 C 6	C296 C 11			LB2 L 2			H
1 11	CRR C 3	C184 C 6	C297 C 12	OH13 C POL 16 OH14 C 17 OH15 C 17		LB3 L B			
	C70 C 3	C185 C 6	C298 C 12	C414 C 17		LB4 L B			
1 11	C72 C 3	C187 C 6	C300 C 12			LBG L 9			
ιП	C73 C 3	CHIS C 6	CMM C 11 CMM C 12	C417 C 10 C418 C 10		LB7 L 9	I		
ПП	C76 C 3	C190 C 6	C200 C 12	C419 C 14		LB9 L 10	I		
ш	C77 C 3	C191 C 6	C304 C 12	C420 C 14		LB10 L 10			
ιП	C78 C 2	C192 C 6	Calda C 12	O421 C 13 O422 C 15		LB11 L 10 LB12 L 11	I		
	CBO C 3	CM C 6 CM C 7 CM C 7	C307 C 12	C419 C 14 C420 C 14 C421 C 13 C422 C 15 C424 C,POL 16		Lin L . 00	I		1.1
111	C82 C 4	C195 C 6	C308 C 12	O425 C_POL 16		LB14 L 11			*
ιП	C84 C 4	C197 C 7	C000 C 12 C000 C 12 C010 C 12	O425 C, POL 16 O426 C 15 O427 C, POL 16		LB16 L 12	I		
ПП	CRS C 4	CHR C 7	C311 C 12 C312 C 12 C313 C 12 C313 C 12	C428 C POL 16 C429 C 17 C420 C 17 C421 C 17		LB17 L 12 LB16 L 12 LB16 L 12 LB16 L 13 LB20 L 13 LB21 L 16 LB22 L 17 LB22 L 17	I		
ш	C80 C 4	C199 C 7	C312 C 12 C313 C 12	C429 C 17		LB18 L 12			
ПП	C88 C 4	C201 C 7	C314 C 12	O431 C 17		LB20 L 13	I		
1 11	C89 C 4	C202 C 7	C315 C 12 C316 C 12 C317 C 12	C432 C 8 C434 C 17 C436 C 17		LB21 L 16	I		
	C80 C 4	C204 C 7	C317 C 12	C436 C 17		LB22 L 17			
ПП	C92 C 4	C205 C 7	C316 C 12 C316 C 12 C316 C 12 C320 C 12	C438 C 17		LB24 L 15 MEC1 HEATSINK 17 MEC2 MEC_SCREW17			
1 11	C92 C 4	C206 C 7	C319 C 12	O439 C 17		MECT HEATSINK 17	I		
\Box	CSA C 4	C200 C 7	C321 C 12	C441 C 17					
ιП	COL	COME C 7	C122 C 12 C122 C 12	C439 C 17 C439 C 17 C449 C 17 C441 C 17 C441 C 17 C443 C 17		MECS MEC_SCREW17 MECS MEC_SCREW17	I		
	C87 C 4	C211 C 7	C224 C 12						
ιП	C99 C 4	C212 C 7	C325 C 12	OHS C.POL 17		02 Q_PNP 2	I		
ιП	C100 C 4	C213 C 7	C226 C 12	CMS C POL 17 CM6 C 17 CM7 C 17		Q2 Q_PNP 2 Q3 Q_FET_N_ENH2 Q4 Q_FET_N_ENH8	I		
ПП	C102 C 4	C215 C 7	C328 C 12	C448 C 17		Q6 Q,NPN 11			
	C102 C 4	CH C 7	Cast C 12	C648 C 17 C566 C 2 C567 C 2		Q6 Q,NPN 11 Q6 Q,NPN 11 Q7 Q,PNP 11	I		
	C104 C 4	C219 C 7	C221 C 12	C567 C 2		07 0,PNP 11 08 0 FET N ENH44			
5	C105 C 4 C106 C 4	C218 C 7 C219 C 7	C331 C 12 C332 C 12	C569 C 2 C570 C 2		QB Q_FET_N_ENH HI QB Q_FET_N_ENH HI	I		_ ^
	C107 C 4	C220 C 7	C333 C 12 C334 C 12	0572 C 2		Q10 Q_FET_N_ENH16 Q11 Q_FET_N_ENH16			"
ιП	C109 C 4	C222 C 7	C235 C 12	C575 C 2		Q12 Q_FET_N_ENH17	I		
ιП	CHIS C 4	CODE C 7	Case C 12 Case C 12 Case C 12 Case C 13 Case C 13 Case C 13	CS70 C 2 CS74 C 2 CS75 C 2 CS90 C 2 CS91 C 2 C724 C 2		Q12 Q,FET,N,ENH17 R1 R 2 R2 R 2 R3 R 2	I		
	C111 C 4 C112 C 4	C225 C 7	C338 C 13	C591 C 2 C724 C 2		R2 R 2 R3 R 2			
						1 '	I	Tiete	
									AWING DETAIL
								Size I	Document Number Rev MS-8912 200
		OSTICS, LISTS AND OTHER DOCUMENTS (TOGETHER AND SEPARATELY, MATERIALS) ARE BEI						Custom	15-8912 200
1		WITH RESPECT TO THE MATERIALS, AND EXPRESSLY DISCLAMS ALL IMPLIED WARRANTIES OF							Wednesday, February 19, 2003 Sheet 19 of 21
	A	В	C D		E		F	G	н
	5 5		'		3		2		

