

7. 회로도

1) System

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PLYMOUTH

CPU : Intel Dothan533
 Chip Set : Intel Alviso & ICH6-M
 Remarks : Mobility Platform

Model Name : PLYMOUTH
 PBA Name : MAIN
 PCB Code : BA41-00570A (TPT)
 BA41-00571A (GCE)
 Dev. Step : PR Regression
 Revision : MP1.1
 T.R. Date : 2005.08.11

DRAW	CHECK	APPROVAL

Owner : SEC Mobile R & D Signature : X

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REV	Duncan Park	DATE	8/11/2005	TITLE	PLYMOUTH	SAMSUNG ELECTRONICS	
TEXT	Hu K'in	CHK PRP	PR-R		CDVER	PART NO. BA41-00570A	
APPROV	SJ Park	REV	1.1			PAGE	1 OF 56
TABLE USE		USER DEF		August 11, 2005 3:52:13 PM			

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SCHEMATIC ANNOTATIONS AND BOARD INFORMATION

PCI Devices

Devices	IDSEL#	REQ/CONT#	MEM/IO#s
Canbus	A025	2	A, B, C
LAN	A021	1	E, F
MiniPCI SLOT1	A023	1	D, E, F
MiniPCI SLOT2	A022	3	D, E, F, G
USB	A026(internal)		USB2.0 #0 : A USB2.0 #1 : D USB2.0 #2 : C USB2.0 #3 : FFF
Hub to PCI	A030(internal)		B
LPC bridge/IDE/ACPI/SMBUS	A031(internal)		B
AC Link	A024(internal)		B

CPU Core Voltage Table

V05	V04	V03	V02	V01	V00	Voltage
0	0	0	0	0	0	1708 V
0	0	0	0	0	0	1676 V
0	0	0	0	0	0	1644 V
0	0	0	0	0	0	1612 V
0	0	0	0	0	0	1580 V
0	0	0	0	0	0	1548 V
0	0	0	0	0	0	1516 V
0	0	0	0	0	0	1484 V
0	0	0	0	0	0	1452 V
0	0	0	0	0	0	1420 V
0	0	0	0	0	0	1388 V
0	0	0	0	0	0	1356 V
0	0	0	0	0	0	1324 V
0	0	0	0	0	0	1292 V
0	0	0	0	0	0	1260 V
0	0	0	0	0	0	1228 V
0	0	0	0	0	0	1196 V
0	0	0	0	0	0	1164 V
0	0	0	0	0	0	1132 V
0	0	0	0	0	0	1100 V
0	0	0	0	0	0	1068 V
0	0	0	0	0	0	1036 V
0	0	0	0	0	0	1004 V
0	0	0	0	0	0	972 V
0	0	0	0	0	0	940 V
0	0	0	0	0	0	908 V
0	0	0	0	0	0	876 V
0	0	0	0	0	0	844 V
0	0	0	0	0	0	812 V
0	0	0	0	0	0	780 V
0	0	0	0	0	0	748 V
0	0	0	0	0	0	716 V
0	0	0	0	0	0	684 V
0	0	0	0	0	0	652 V
0	0	0	0	0	0	620 V
0	0	0	0	0	0	588 V
0	0	0	0	0	0	556 V
0	0	0	0	0	0	524 V
0	0	0	0	0	0	492 V
0	0	0	0	0	0	460 V
0	0	0	0	0	0	428 V
0	0	0	0	0	0	396 V
0	0	0	0	0	0	364 V
0	0	0	0	0	0	332 V
0	0	0	0	0	0	300 V
0	0	0	0	0	0	268 V
0	0	0	0	0	0	236 V
0	0	0	0	0	0	204 V
0	0	0	0	0	0	172 V
0	0	0	0	0	0	140 V
0	0	0	0	0	0	108 V
0	0	0	0	0	0	76 V
0	0	0	0	0	0	44 V
0	0	0	0	0	0	12 V
0	0	0	0	0	0	0 V

Highest Freq. : 1708 V
 Lowest Freq. : 0 V

REVISION HISTORY

See rev notes in the changes file for more information.

Voltage Rails

VCC_CORE	Power On-Suspend (POS)	Notes
VTT	1.05V	Core voltage for DOTHAN (1.05V-1.08V)
P0_5V	0.9V	switched power rail (off in S3-S5)
P1_5V	1.5V	switched power rail (off in S3-S5)
P1_5V_AUX	1.5V	power rail (off in S4-S5)
P1_5V_AUX	1.8V	switched power rail (off in S3-S5)
P2_5V	2.5V	switched power rail (off in S3-S5)
MICOM_P3V	3.3V	always on power rail for MICOM
P3_3V_AUX	3.3V	switched power rail (off in S3-S5)
P3_3V_DTV	3.3V	power rail (off in S4-S5)
P5V	5.0V	switched power rail (off in S3-S5)
P5V_AUX	5.0V	power rail (off in S4-S5)

I C / SMB Address

Devices	Address	Hex	Bus
SMBUS Master	Master I2C	9Ch	SMBUS Master
Thermal Sensor	10100000	A0h	Thermal Sensor
SODMM1	1010001X	A0h	ASX
Clk400 (Clock Generator)	1101000h	D2h	Clk400, Unused Clock Output Disable

USB PORT Assign

PORT NUMBER	ASSIGNED TO
0	SYSTEM PORT A
1,2	SYSTEM PORT B
3	BLUETOOTH
4	BLUETOOTH
5	PORT REPLICATOR

System Power States

CHP3_SLP_S0* S1 : Powered-On-Suspend(POS) : In this state, all clocks(except the 32.768KHz clock) are stopped. The system context is maintained in system DRAM. Power is maintained to PCI, the CPU, memory controller, memory, and all other critical subsystems. For either Deep Sleep or Deep S0 Sleep.

CHP3_SLP_S0* S2 : Deep Sleep : CPU voltage reduced in this state to reduce the leakage power.

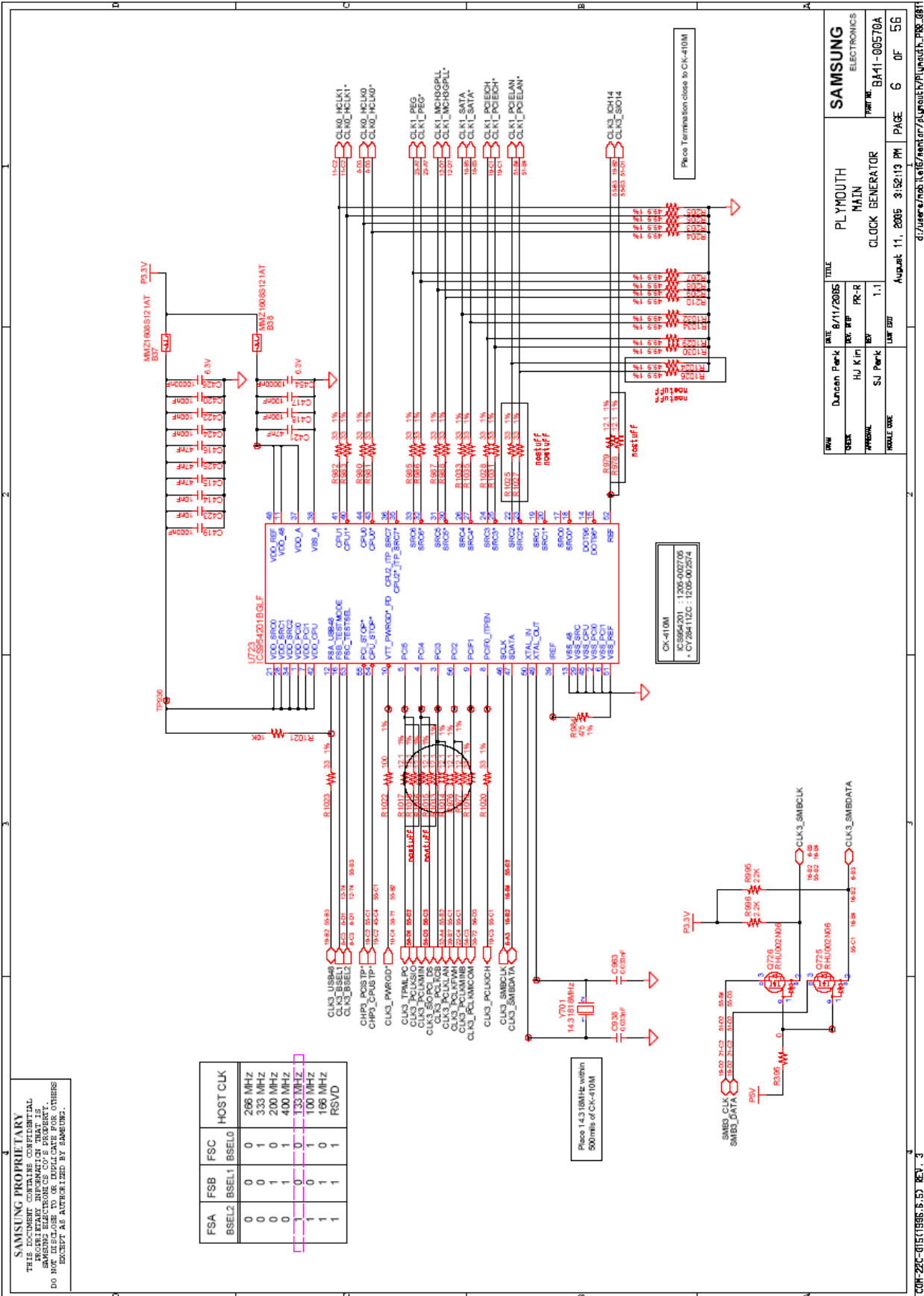
CHP3_SLP_S0* S3 : Suspend-to-Disk(STD) : Memory is maintained and refreshes continue. All clocks stop except for ITC clock.

CHP3_SLP_S0* S4 : Suspend-to-Disk(STD) : The context of the systems is maintained on the disk. All power is then shut off to the systems except for the logic required to resume.

CHP3_SLP_S0* S5 : Soft Off(SOFT) : System context is not maintained. All power is shut off except for the logic required to restart. A full boot is required when waking.

REV	DATE	DESCRIPTION	BY	CHK	DATE	DESCRIPTION	BY	CHK
1.1	2005.08.11	PL YMOUTH MAIN BOARD INFORMATION	PL YMOUTH	PL YMOUTH	2005.08.11	PL YMOUTH MAIN BOARD INFORMATION	PL YMOUTH	PL YMOUTH

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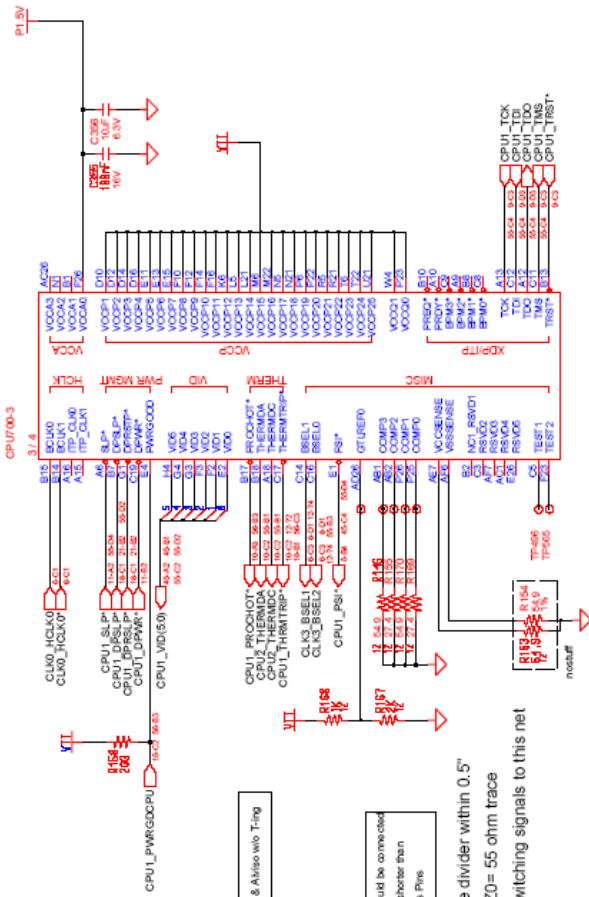
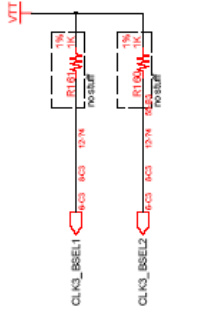


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REV	Duncan Park	DATE	8/11/2005	TITLE	PL YMOUTH MAIN
DESIGN	HJ Kim	REV	RR-R	CLOCK GENERATOR	
APPVAL	SJ Park	REV	1.1		
SCALE USE		DATE	August 11, 2005 3:52:13 PM	PAGE	6 OF 56

SAMSUNG ELECTRONICS	
Part No.	BA141-00570A

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TherTRIP⁺ should connect to iCHM & Atlixo w/o Tying

COMP0, 2 <COMP1, 3> should be connected Z0=27.4 ohm (50 ohm) trace shorter than 12" to their respective Banks Pins

GTLREF : Keep the Voltage divider within 0.5" of the First GTLREF0 with Z0= 55 ohm trace Minimize coupling of any switching signals to this net



CPU Core Voltage Table

VID(S0)	Voltage	VID(S0)	Voltage
00	1.708V	11	1.186V
01	1.682V	12	1.164V
02	1.657V	13	1.143V
03	1.633V	14	1.123V
04	1.610V	15	1.104V
05	1.588V	16	1.086V
06	1.566V	17	1.069V
07	1.545V	18	1.053V
08	1.524V	19	1.038V
09	1.504V	20	1.024V
10	1.484V	21	1.010V
11	1.465V	22	0.997V
12	1.446V	23	0.984V
13	1.428V	24	0.972V
14	1.410V	25	0.960V
15	1.393V	26	0.949V
16	1.376V	27	0.938V
17	1.360V	28	0.927V
18	1.344V	29	0.917V
19	1.329V	30	0.907V
20	1.314V	31	0.897V
21	1.300V	32	0.887V
22	1.286V	33	0.878V
23	1.272V	34	0.869V
24	1.259V	35	0.860V
25	1.246V	36	0.851V
26	1.234V	37	0.842V
27	1.222V	38	0.834V
28	1.210V	39	0.826V
29	1.200V	40	0.818V
30	1.190V	41	0.810V
31	1.181V	42	0.802V
32	1.172V	43	0.794V
33	1.164V	44	0.786V
34	1.156V	45	0.778V
35	1.148V	46	0.770V
36	1.140V	47	0.762V
37	1.132V	48	0.754V
38	1.124V	49	0.746V
39	1.116V	50	0.738V
40	1.108V	51	0.730V
41	1.100V	52	0.722V
42	1.092V	53	0.714V
43	1.084V	54	0.706V
44	1.076V	55	0.698V
45	1.068V	56	0.690V
46	1.060V	57	0.682V
47	1.052V	58	0.674V
48	1.044V	59	0.666V
49	1.036V	60	0.658V
50	1.028V	61	0.650V
51	1.020V	62	0.642V
52	1.012V	63	0.634V
53	1.004V	64	0.626V
54	0.996V	65	0.618V
55	0.988V	66	0.610V
56	0.980V	67	0.602V
57	0.972V	68	0.594V
58	0.964V	69	0.586V
59	0.956V	70	0.578V
60	0.948V	71	0.570V
61	0.940V	72	0.562V
62	0.932V	73	0.554V
63	0.924V	74	0.546V
64	0.916V	75	0.538V
65	0.908V	76	0.530V
66	0.900V	77	0.522V
67	0.892V	78	0.514V
68	0.884V	79	0.506V
69	0.876V	80	0.498V
70	0.868V	81	0.490V
71	0.860V	82	0.482V
72	0.852V	83	0.474V
73	0.844V	84	0.466V
74	0.836V	85	0.458V
75	0.828V	86	0.450V
76	0.820V	87	0.442V
77	0.812V	88	0.434V
78	0.804V	89	0.426V
79	0.796V	90	0.418V
80	0.788V	91	0.410V
81	0.780V	92	0.402V
82	0.772V	93	0.394V
83	0.764V	94	0.386V
84	0.756V	95	0.378V
85	0.748V	96	0.370V
86	0.740V	97	0.362V
87	0.732V	98	0.354V
88	0.724V	99	0.346V
89	0.716V	100	0.338V
90	0.708V		

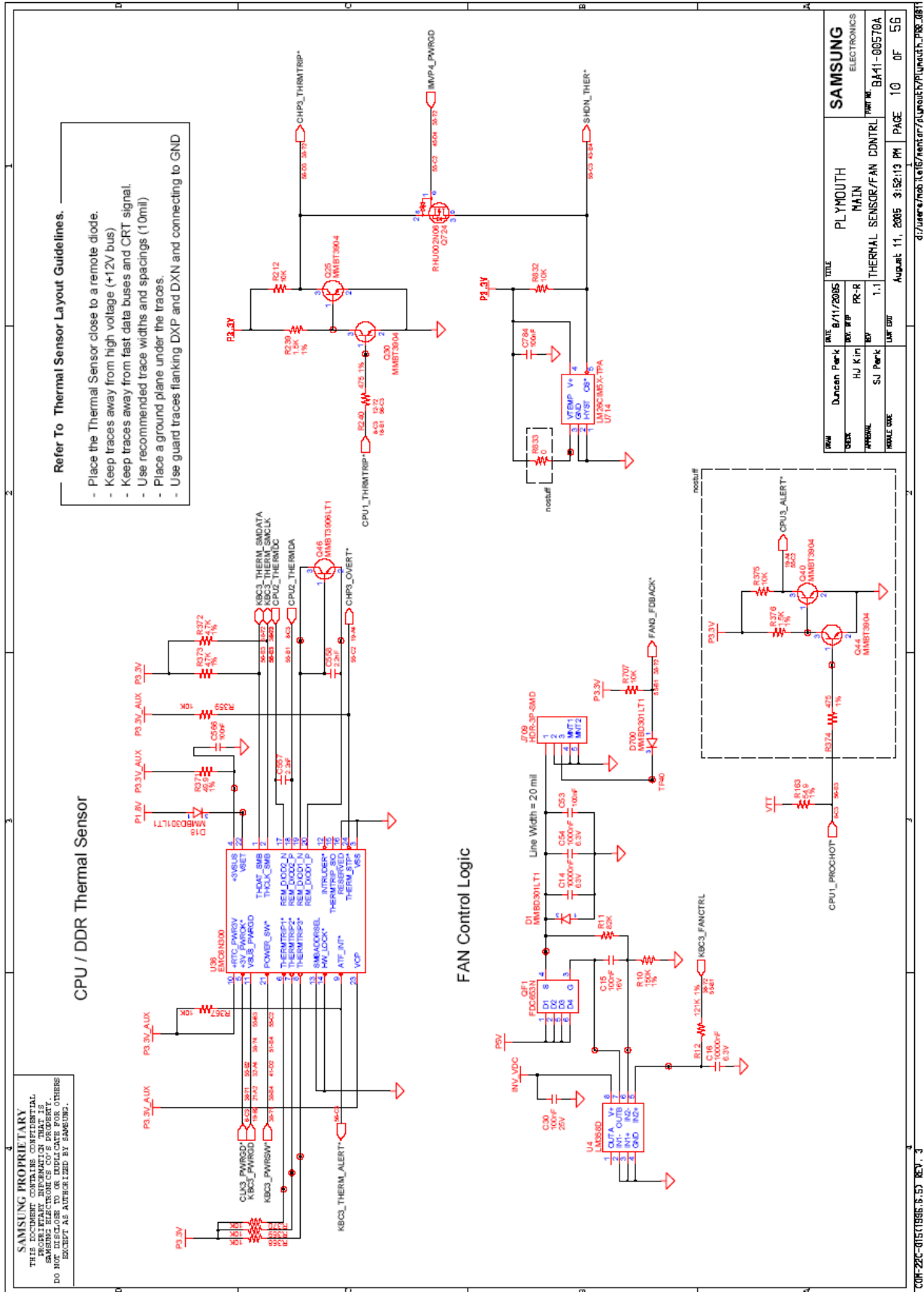
↑ Voltage Reg.
 ↓ Accur. Slop

Highest Freq. of Domain(001, 80Hz)
 * Highest Freq. of Domain(83, 77 GHz, TBD)

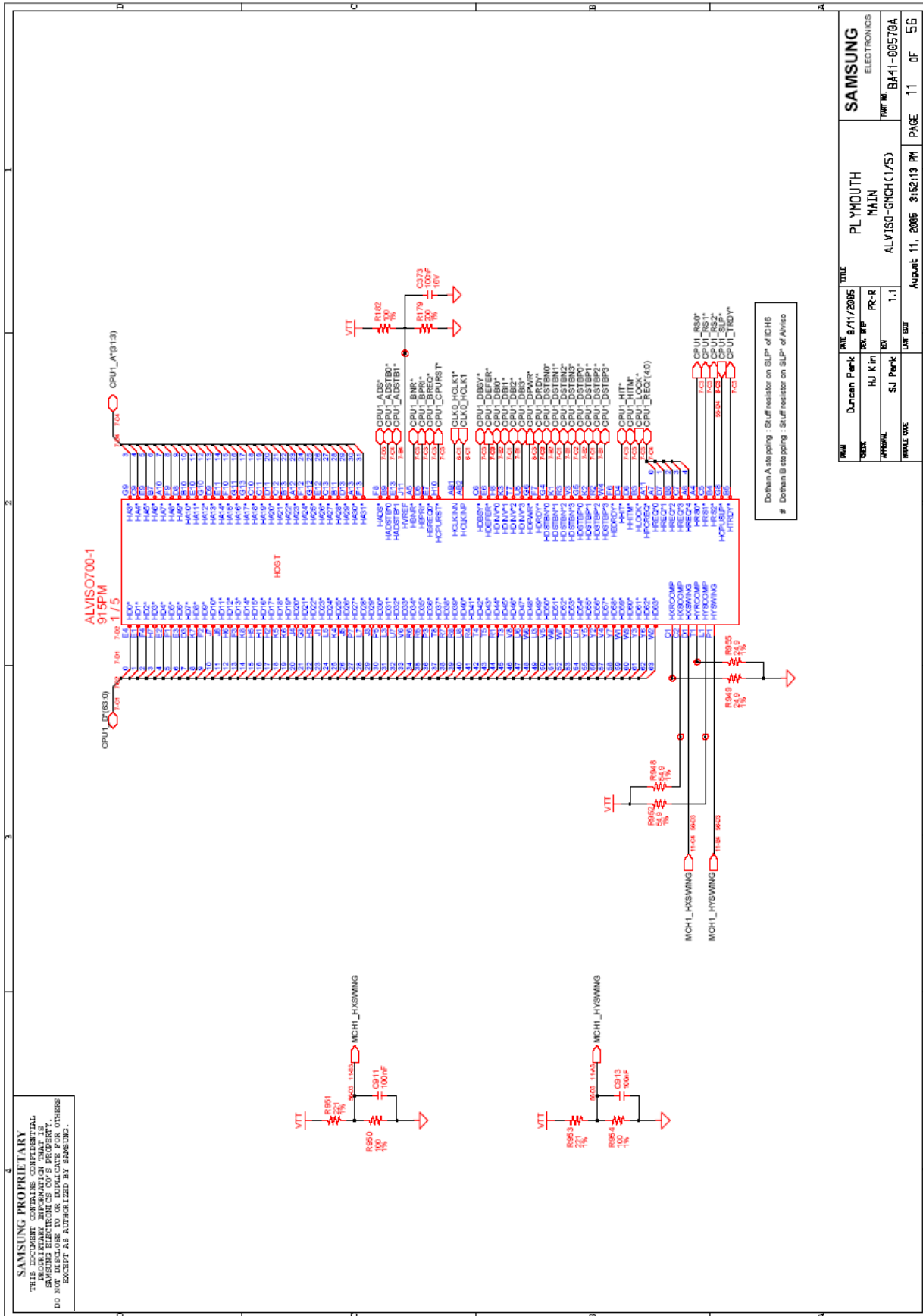
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 DESK: **HJ Kim** REV: **PR-R** MAIN
 APPROVAL: **SJ Park** REV: **1.1** DOTHAN_CPIK2/3)
 SCALE CODE: _____

REV: _____ DATE: _____ TITLE: _____
 DESK: _____ REV: _____
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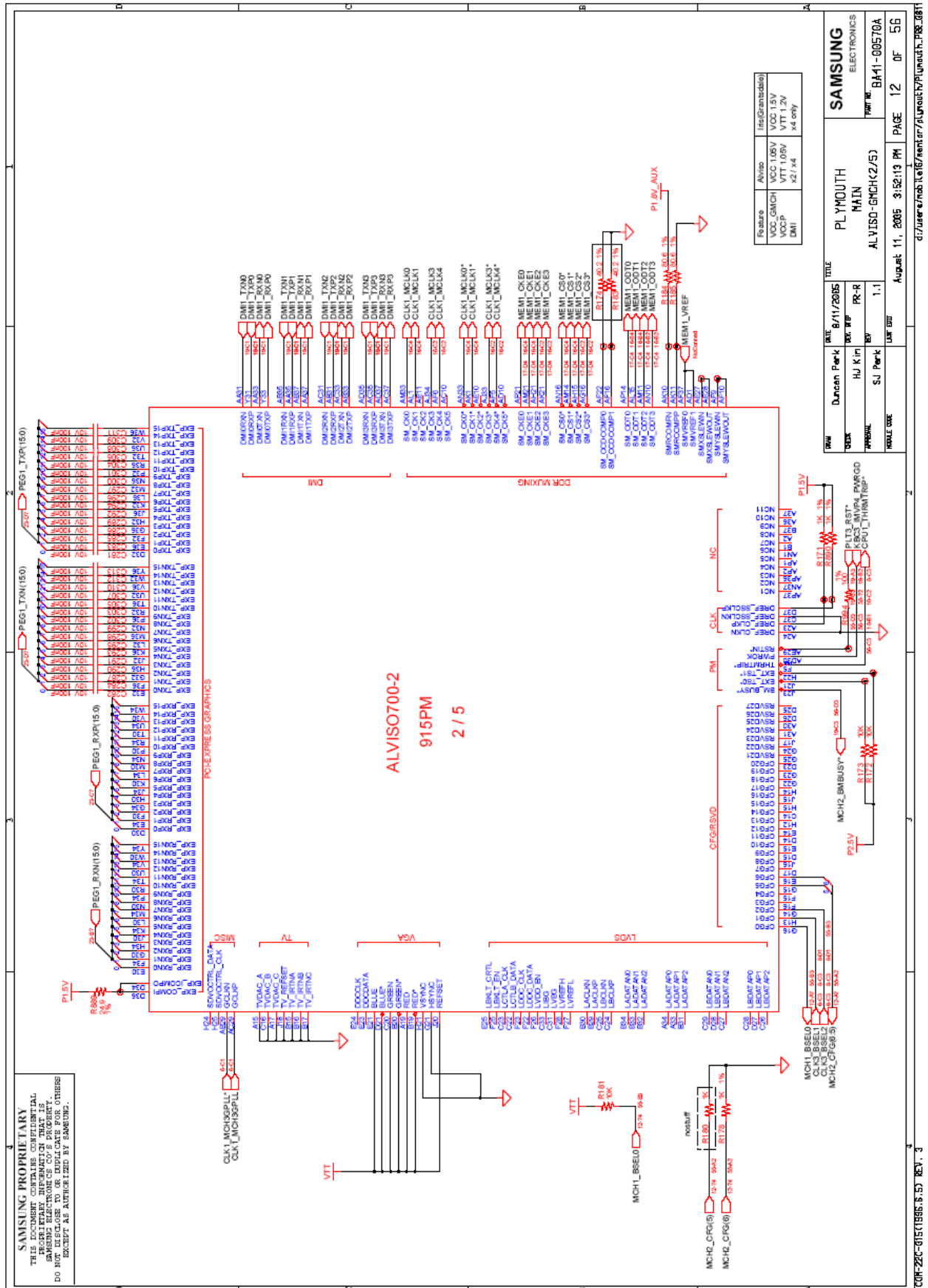
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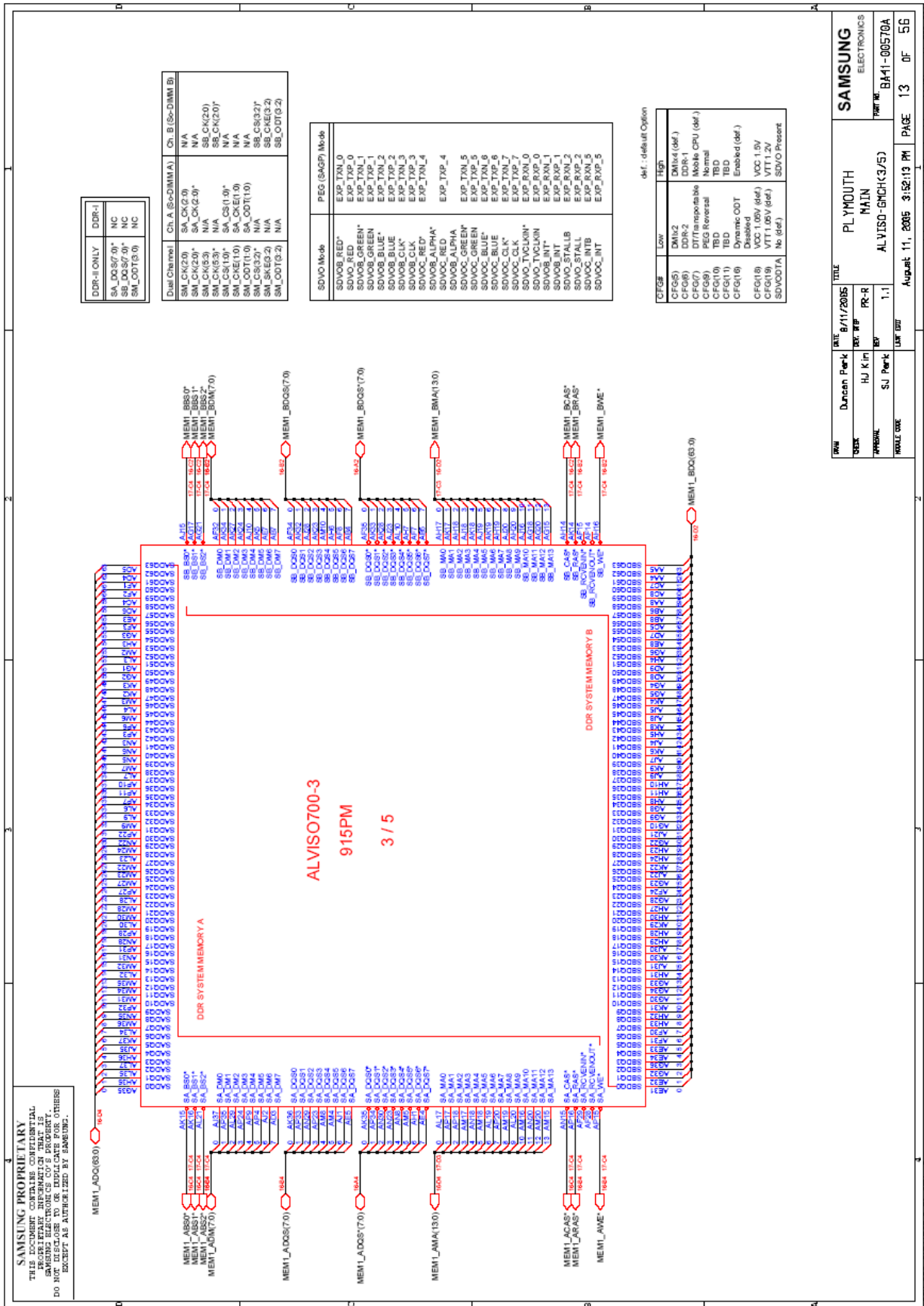
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Feature	Value	Use(Comment)
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VCC_P	VTT_1.05V	
DMI	427.44	As only

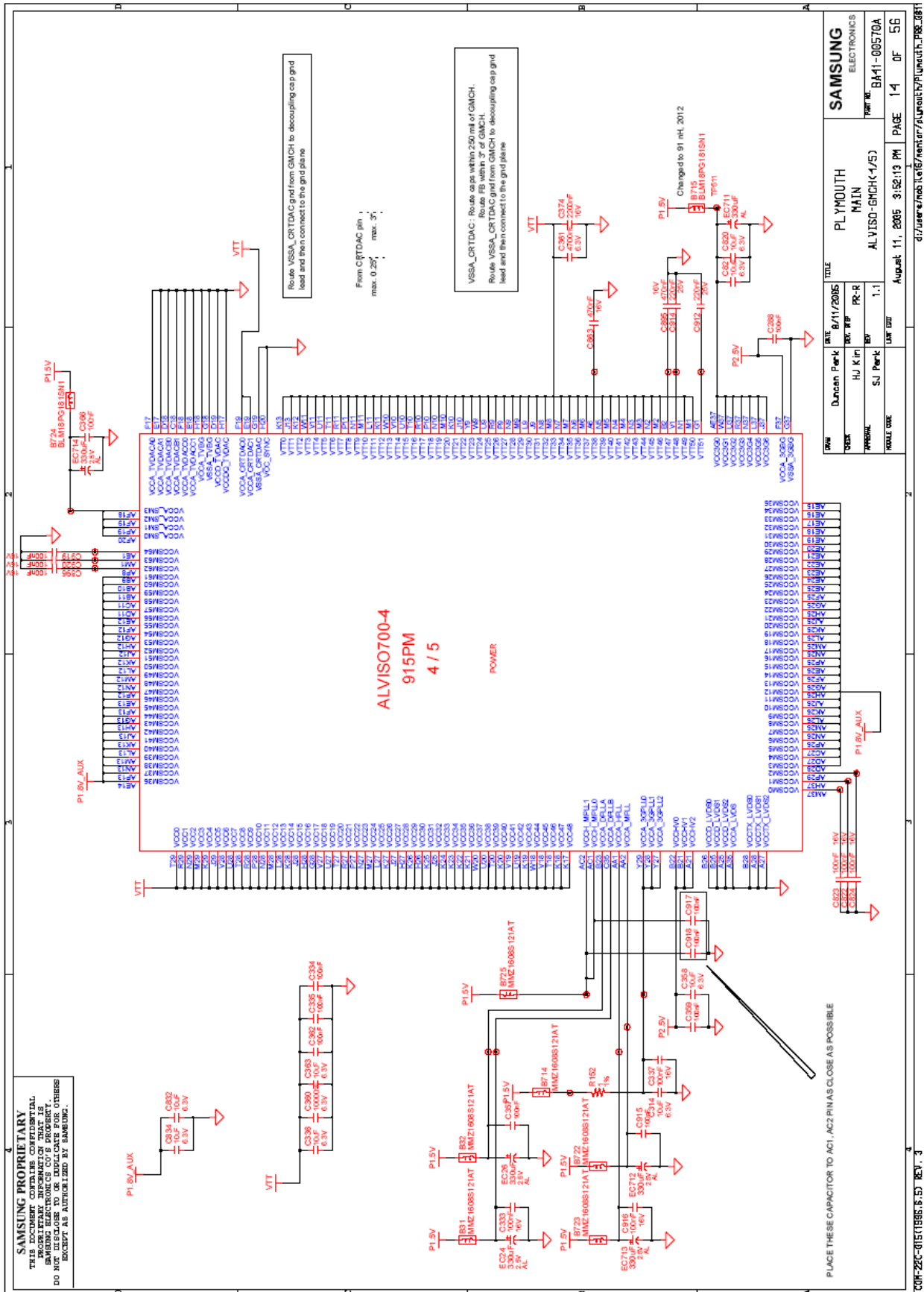
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1.2		SJ	Perk						

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 ELECTRONICS
PL MOUTH
 MAIN
 ALVISO-GMCH2(5)
 Part No: BA41-00570A
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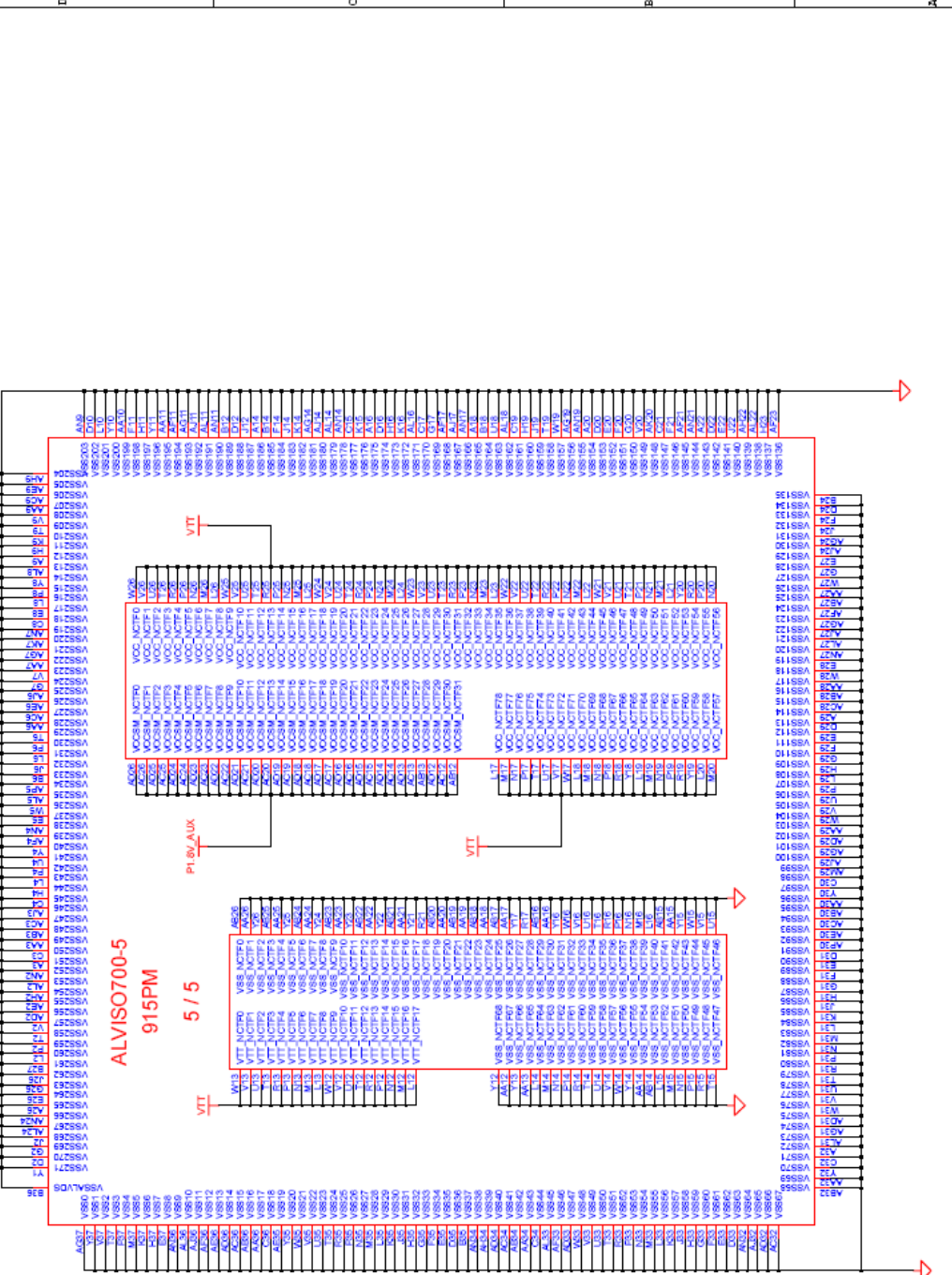


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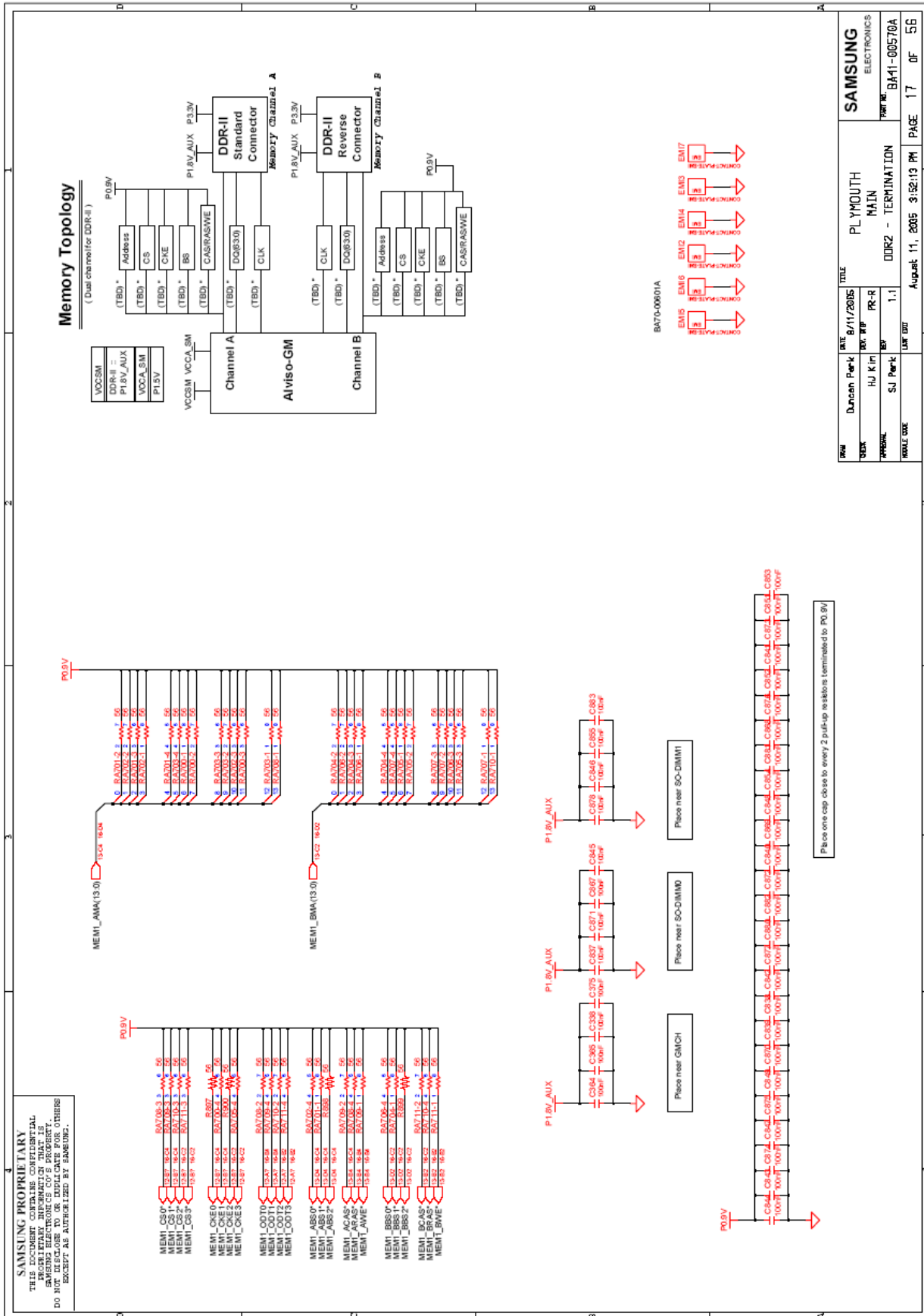
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REV	Duncan Park	DATE	8/11/2005	TITLE	PL YMOUTH MAIN
DESIGN	HJ Kim	REV	PR-R	APPVAL	ALVISO-GNCH(5/5)
APPROVAL	SJ Park	REV	1.1	DATE	August 11, 2005 3:52:13 PM
HOUSE NO.		DESIGNER		PAGE	15 OF 56

REV	Duncan Park	DATE	8/11/2005	TITLE	PL YMOUTH MAIN
DESIGN	HJ Kim	REV	PR-R	APPVAL	ALVISO-GNCH(5/5)
APPROVAL	SJ Park	REV	1.1	DATE	August 11, 2005 3:52:13 PM
HOUSE NO.		DESIGNER		PAGE	15 OF 56

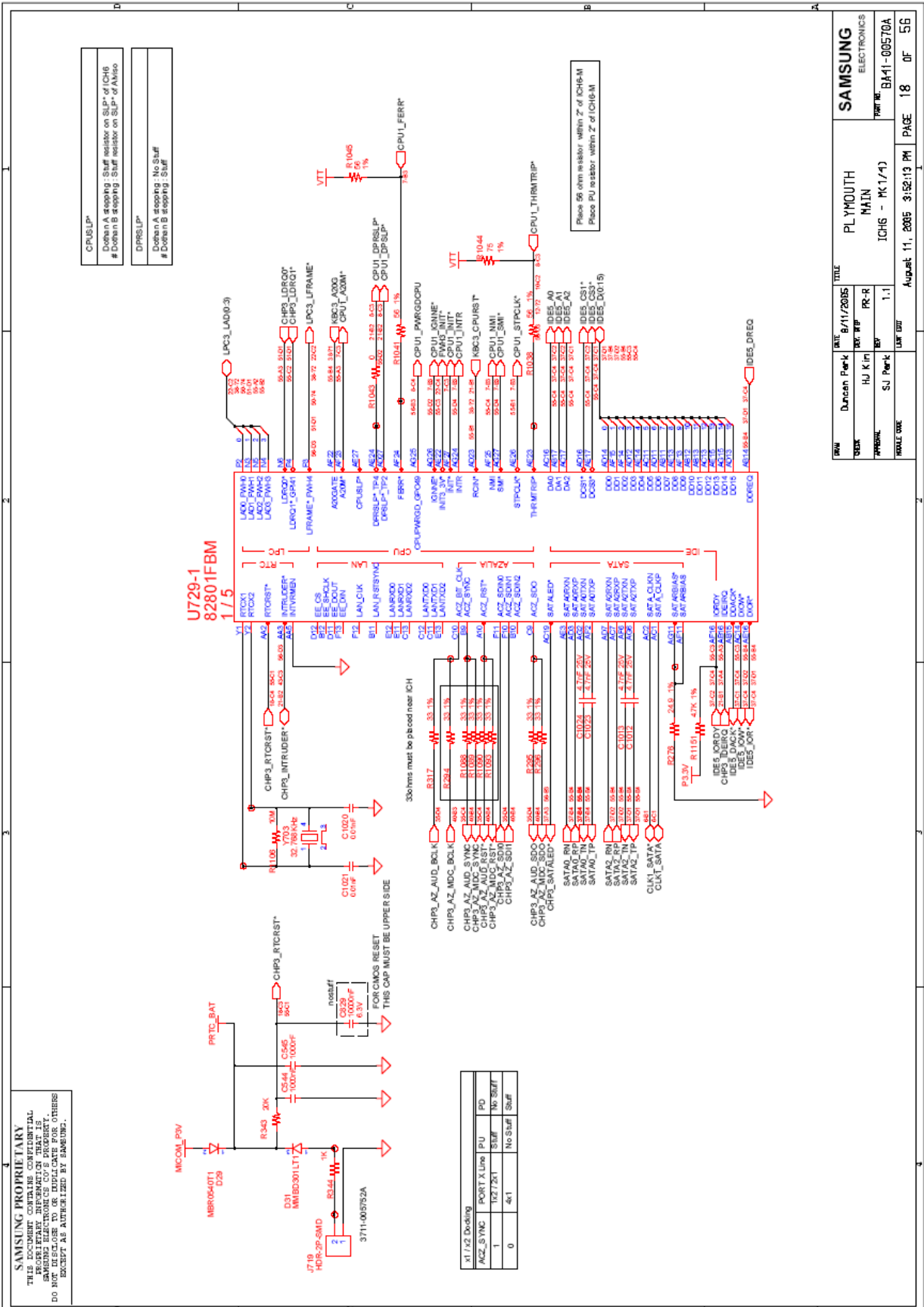


Capacitor Placement Note:

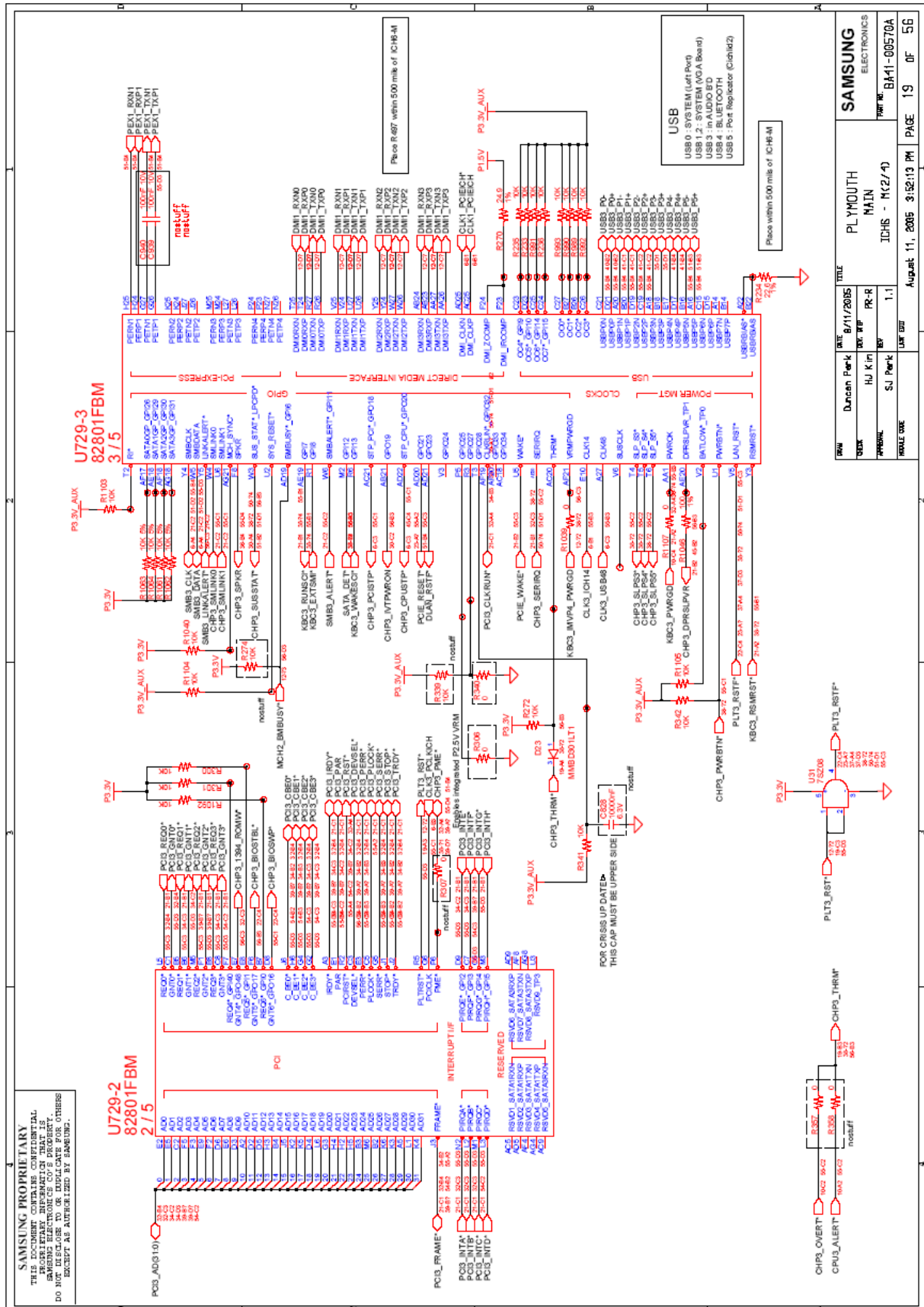
Please place one cap close to every 2 pull-up resistors terminated to P0.9V.

EMIS/EMIB/EMIC/EMID/EMIE/EMIF/EMIG/EMIH/EMIJ/EMIK/EMIL/EMIM/EMIN/EMIO/EMIP/EMIQ/EMIR/EMIS/EMIT/EMIU/EMIV/EMIW/EMIX/EMIZ

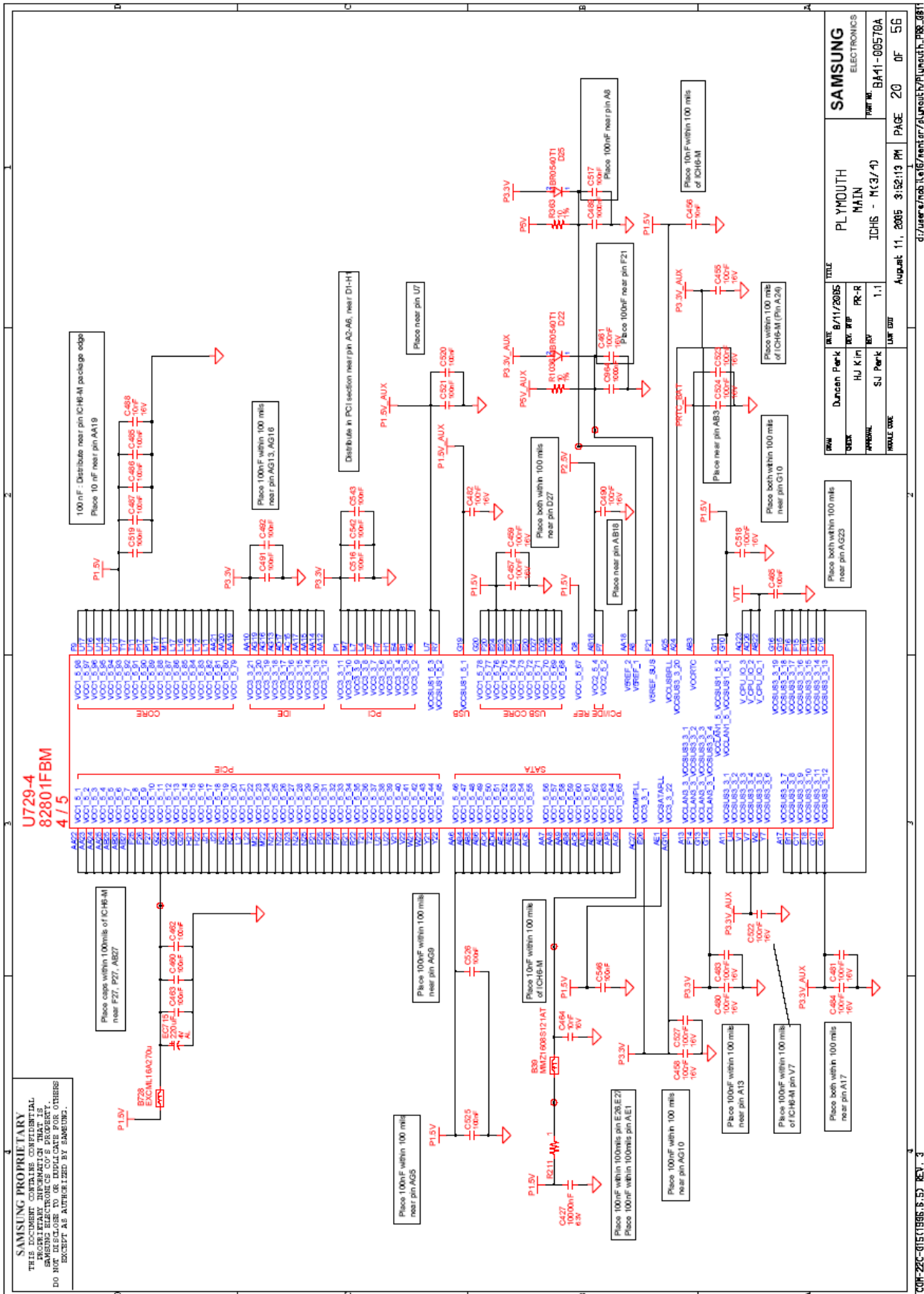
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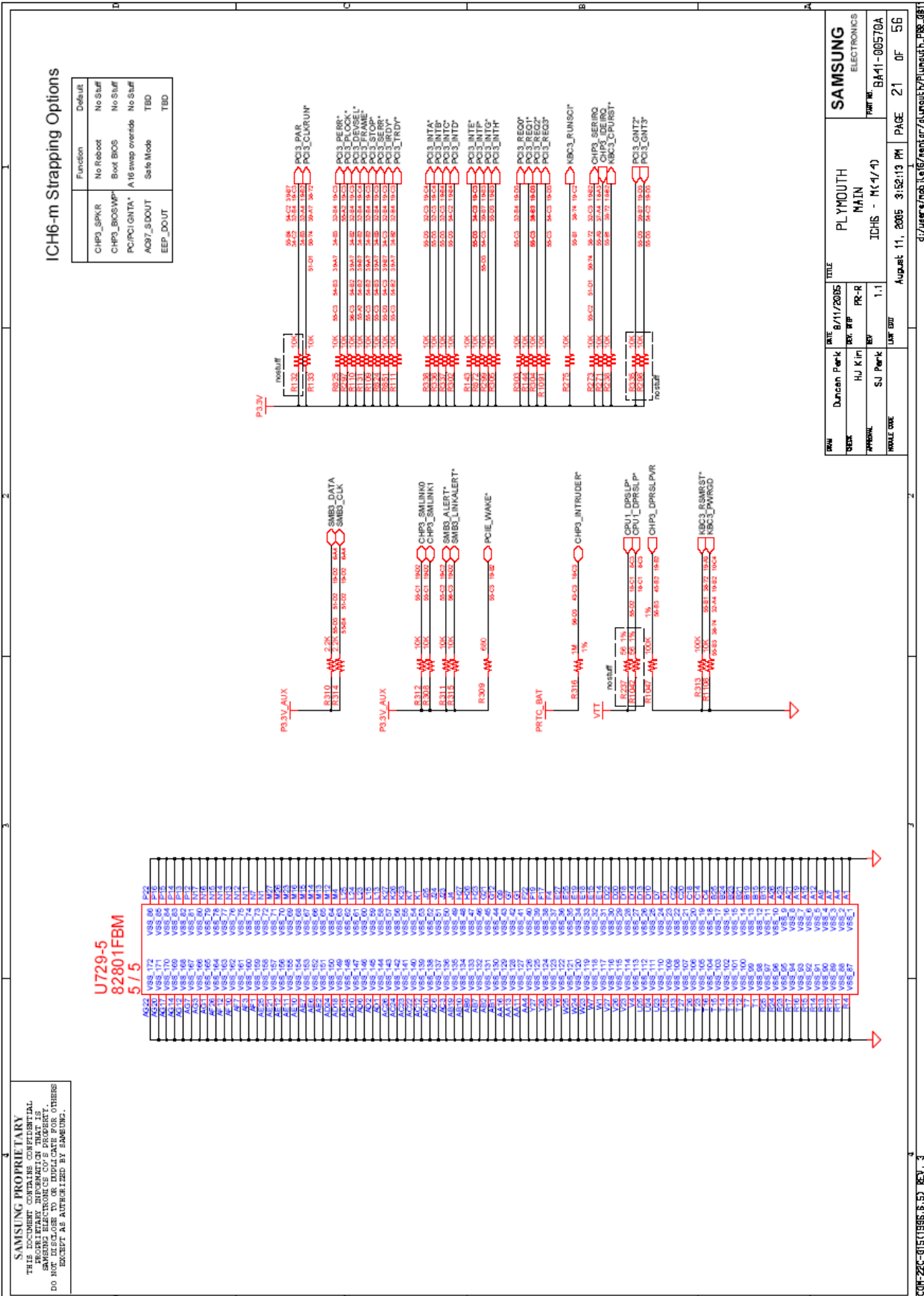
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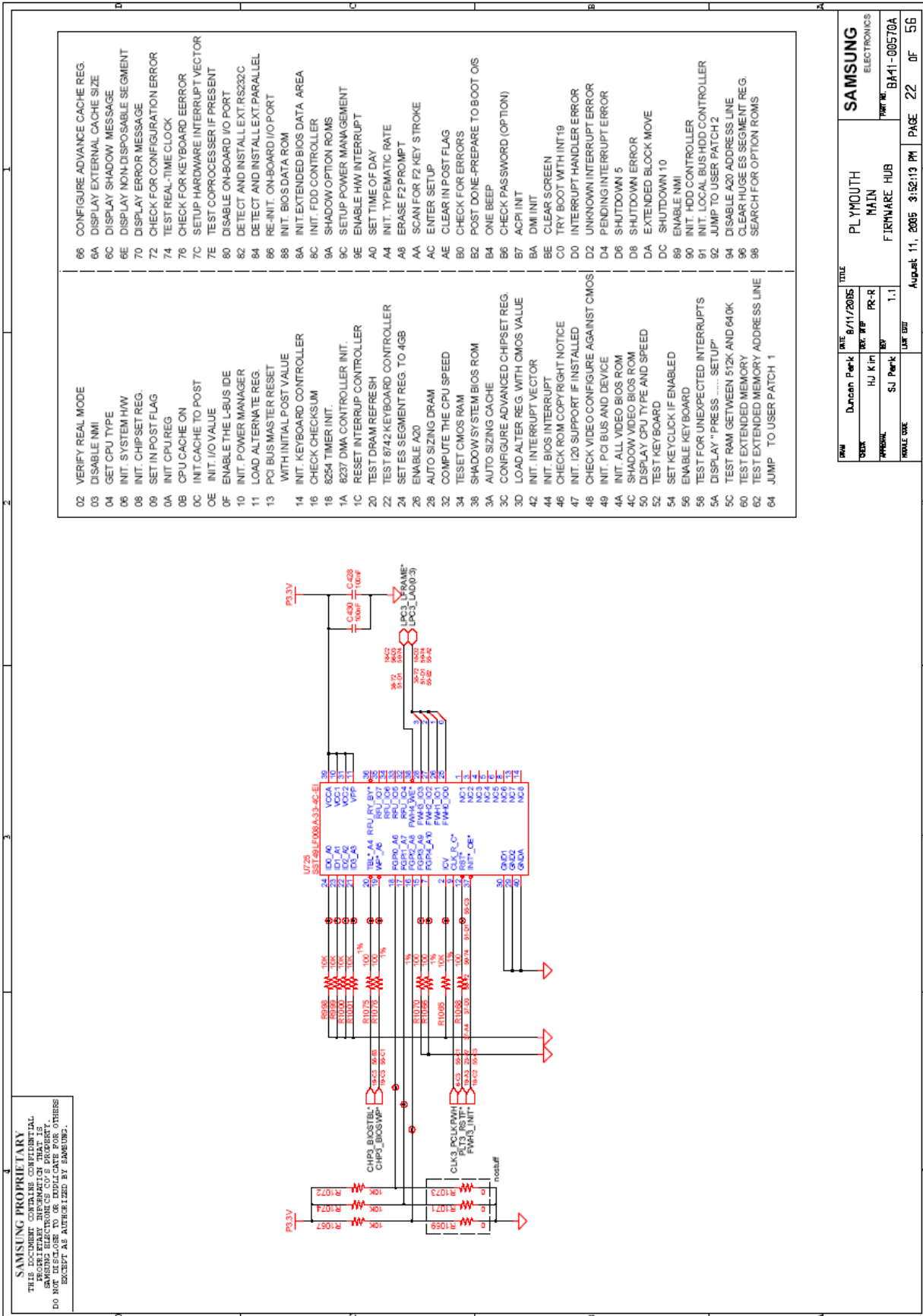
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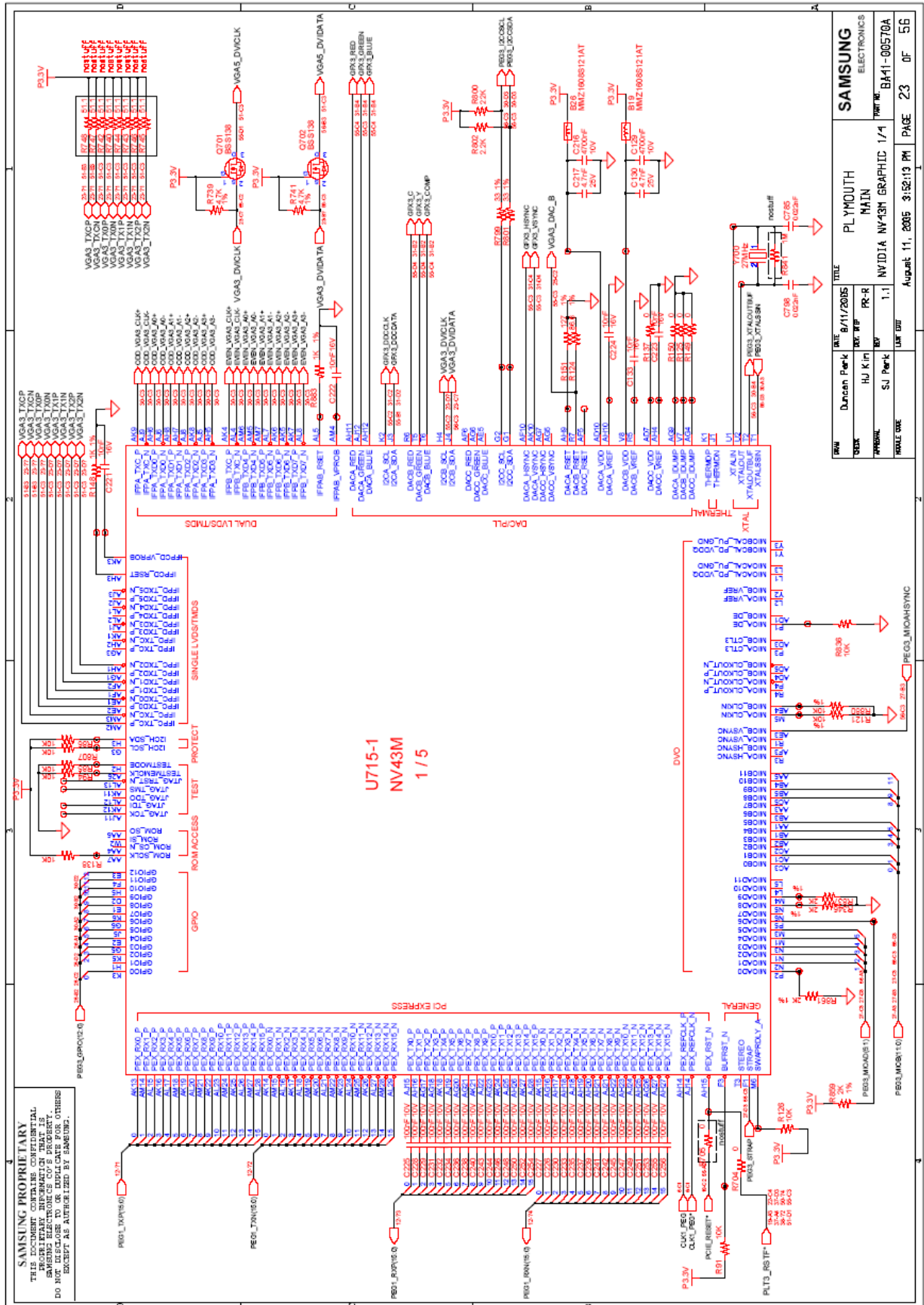


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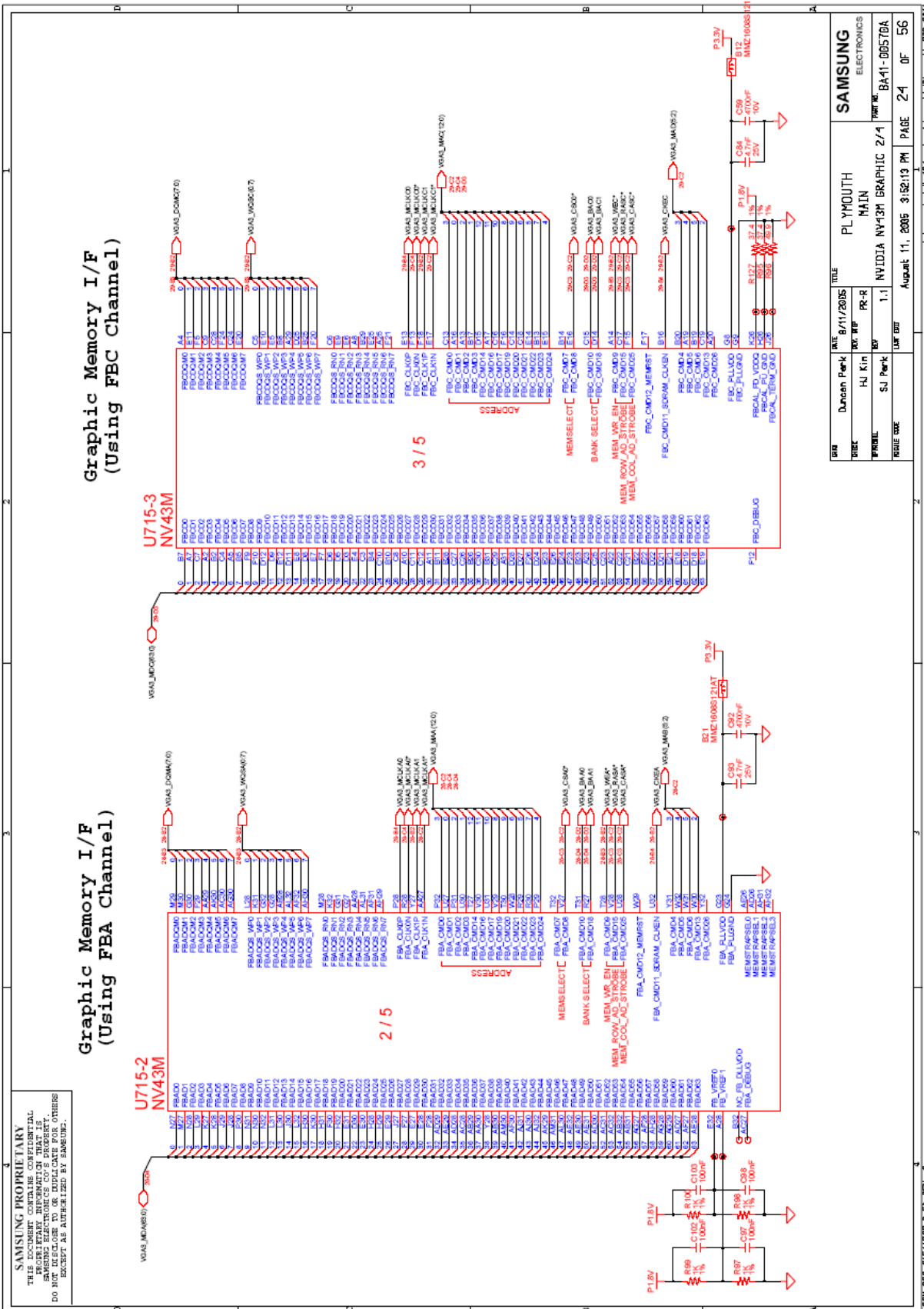


REV	DATE	TITLE	SAMSUNG ELECTRONICS
001	8/11/2005	PL YMOUTH MAIN FIRMWARE HUB	Part No. BA41-00570A
DESIGNER	CHK. W/P	RC-R	
APPROVAL	HJ K/P	1.1	
DATE USE	DATE USE	August 11, 2005 3:52:13 PM	PAGE 22 OF 56

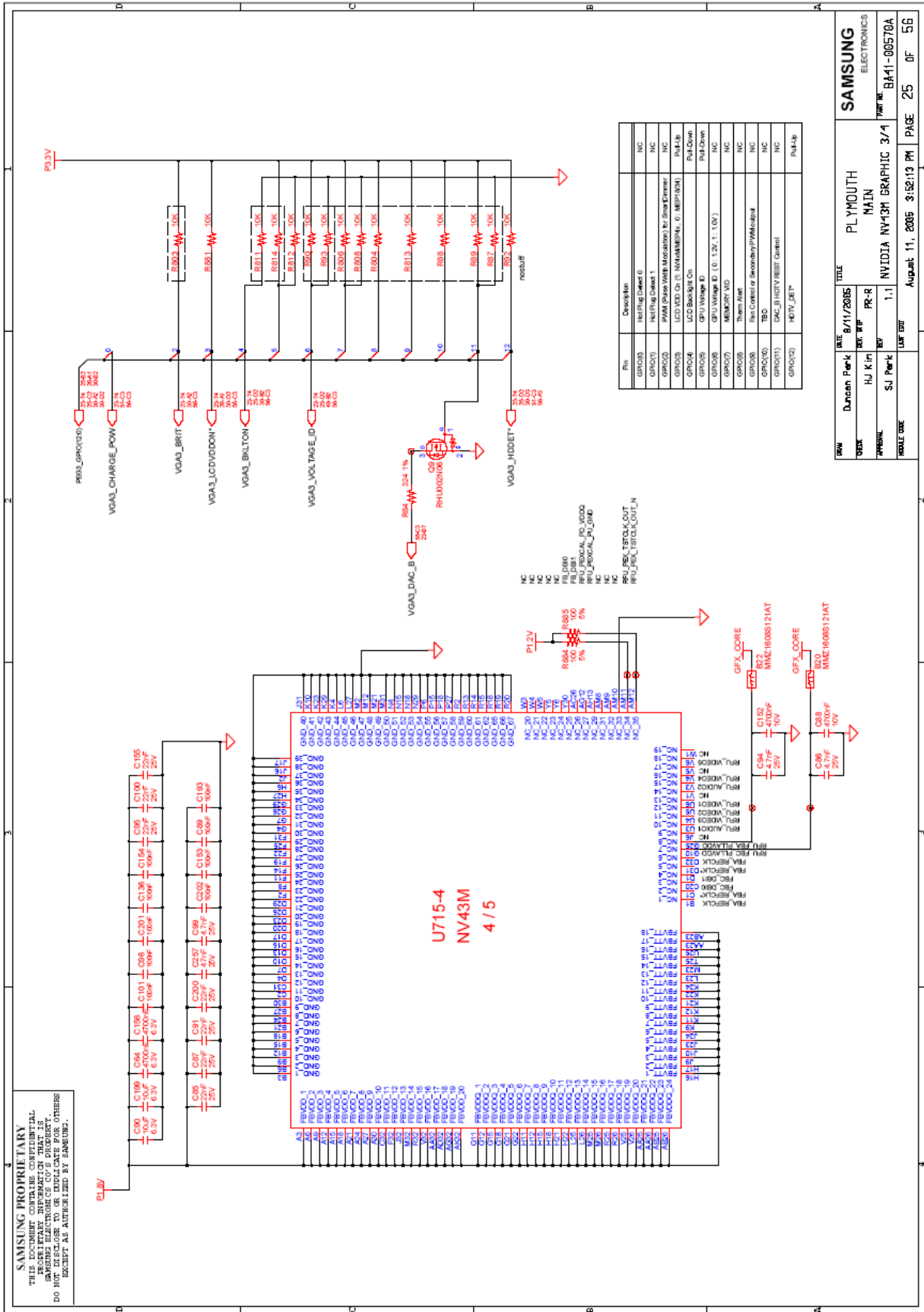
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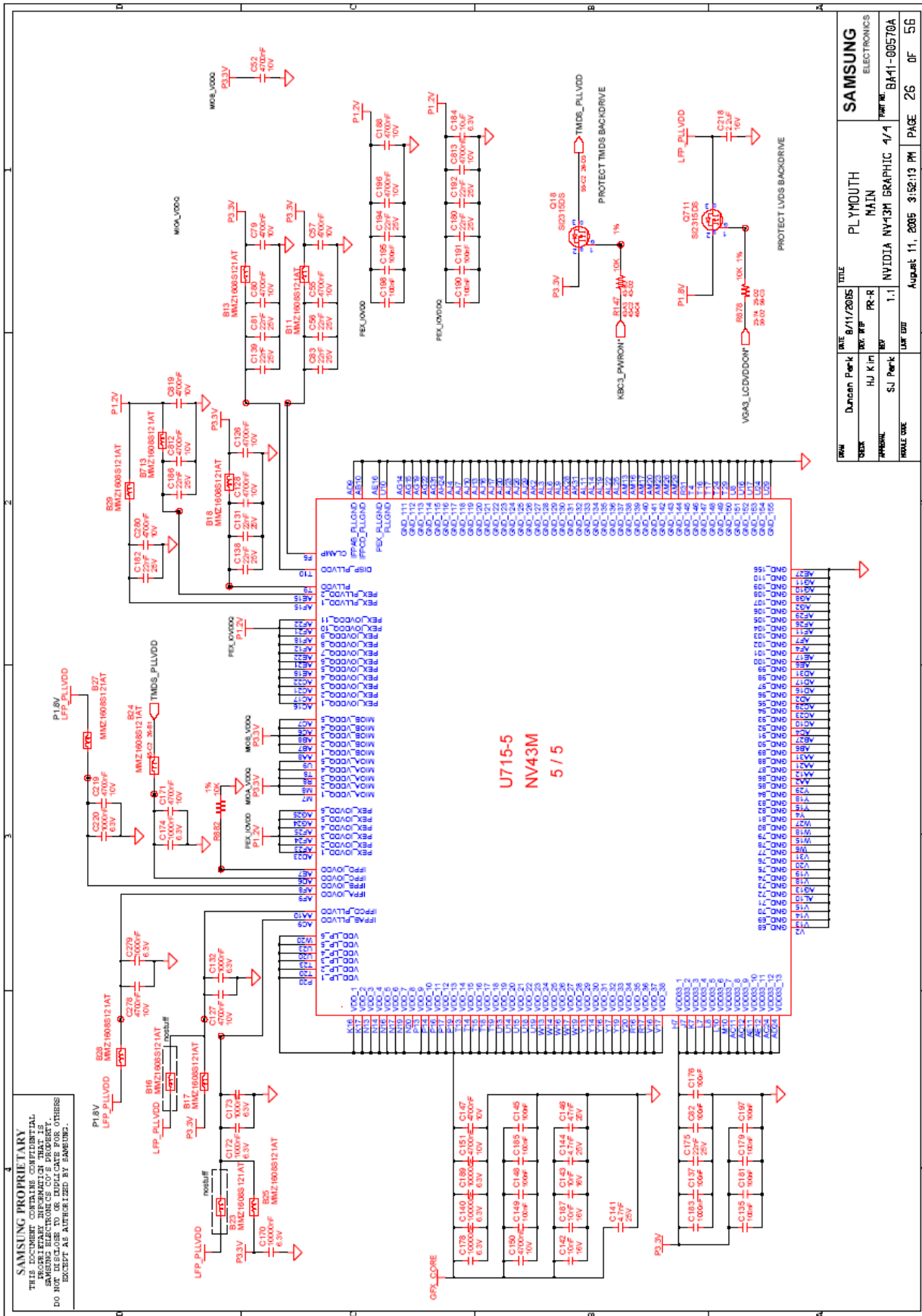
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002	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
003	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
004	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
005	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
006	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
007	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
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013	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
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015	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
016	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
017	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
018	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
019	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
020	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
021	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
022	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
023	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
024	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
025	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
026	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
027	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
028	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
029	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
030	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
031	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
032	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
033	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
034	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
035	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
036	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
037	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
038	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
039	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
040	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
041	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
042	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
043	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
044	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
045	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
046	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
047	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
048	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
049	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN
050	08/11/2005	DU	KH	RC-R	PL YMOUTH MAIN



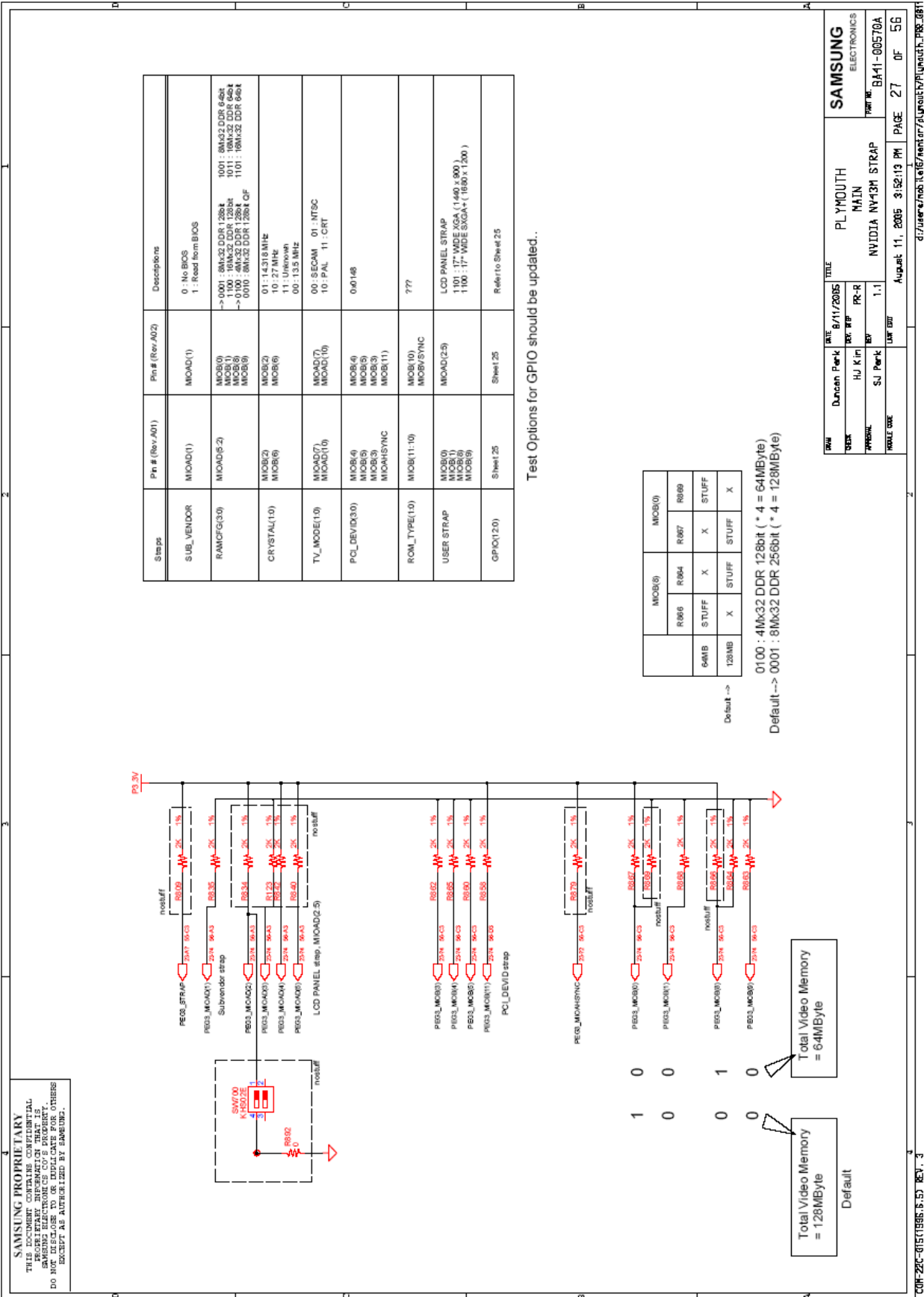
7. 회로도



7. 회로도



7. 히로도



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Steps	Pin # (Rev.A01)	Pin # (Rev.A02)	Description
SUB_VENDOR	MOAD(1)	MOAD(1)	0 : No BIOS 1 : Read from BIOS
RAMCFG(3:0)	MOB(0) MOB(1) MOB(2) MOB(3) MOB(4) MOB(5) MOB(6) MOB(7) MOB(8) MOB(9)	MOB(0) MOB(1) MOB(2) MOB(3) MOB(4) MOB(5) MOB(6) MOB(7) MOB(8) MOB(9)	→ 0001 : 8Mx32 DDR 128bit 1100 : 8Mx32 DDR 128bit 1011 : 8Mx32 DDR 64bit → 0000 : 8Mx32 DDR 128bit OF 0100 : 8Mx32 DDR 128bit OF 01 : 14.318 MHz 10 : 27 MHz 11 : 33 MHz 00 : 13.5 MHz
CRYSTAL(1:0)	MOB(2) MOB(6)	MOB(2) MOB(6)	00 : SECAM 01 : NTSC 10 : PAL 11 : CRT
TV_MODE(1:0)	MOAD(7) MOAD(10)	MOAD(7) MOAD(10)	00 : SECAM 01 : NTSC 10 : PAL 11 : CRT
PCL_DEV(D:3:0)	MOB(4) MOB(5) MOB(8) MOB(9) MOB(11)	MOB(4) MOB(5) MOB(8) MOB(9) MOB(11)	0:0148
ROM_TYPE(1:0)	MOB(11:10)	MOB(10) MOB(9)	7??
USER_STRAP	MOB(0) MOB(1) MOB(2) MOB(3) MOB(9)	MOB(0) MOB(1) MOB(2) MOB(3) MOB(9)	LCD PANEL STRAP 1100 : 17" WIDE XGA (1440 x 900) 1100 : 17" WIDE SXGA+ (1680 x 1300)
GPIO(2:0)	Sheet 25	Sheet 25	Refer to Sheet 25

Test Options for GPIO should be updated.

	MOB(0)	MOB(1)	MOB(2)	MOB(3)	MOB(4)	MOB(5)	MOB(6)	MOB(7)	MOB(8)	MOB(9)
64MB					X	X	X	X	X	X
128MB					X	X	X	X	X	X

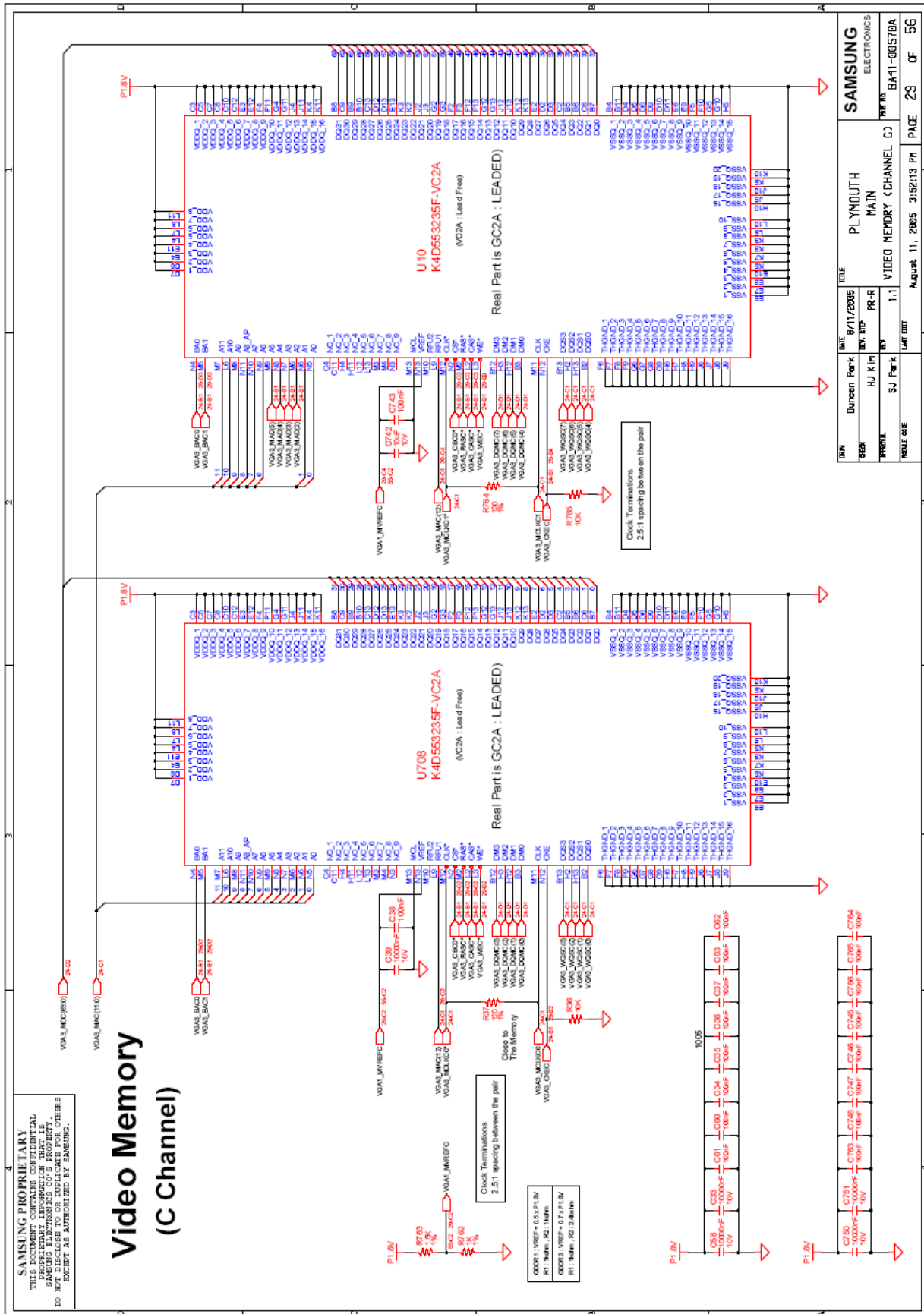
0100 : 4Mx32 DDR 128bit (* 4 = 64MByte)
 Default → 0001 : 8Mx32 DDR 256bit (* 4 = 128MByte)

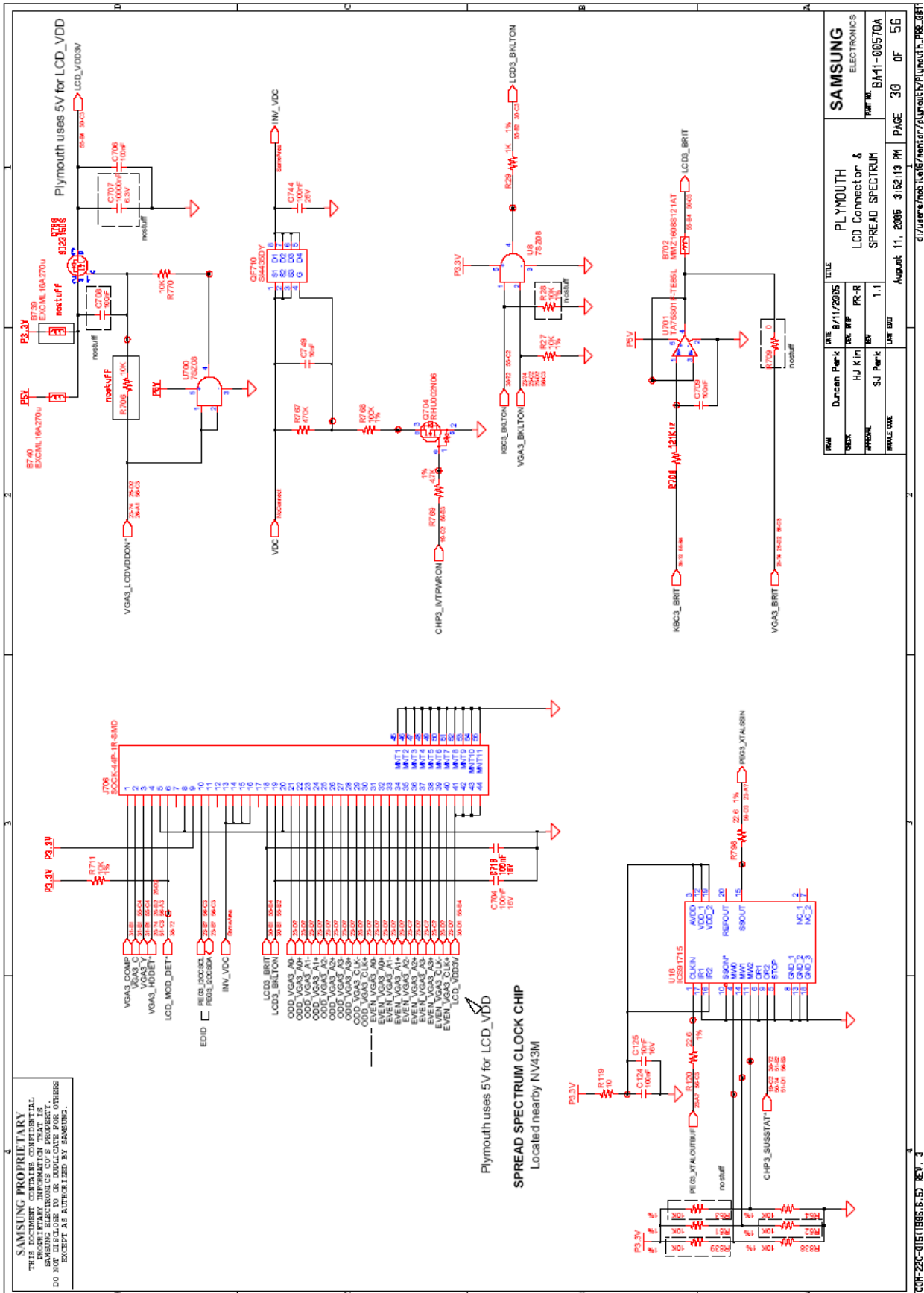
Total Video Memory = 128MByte
 Default

Total Video Memory = 64MByte

REV	DATE	REV	TITLE	SAMSUNG ELECTRONICS	
Duncan Park	8/11/2005	REV	PL YMOUTH MAIN		
TEST		HJ Kim	MAIN		
APPROVAL		SJ Park	NVIDIA NV43M STRAP	PART NO. BA41-00570A	
MODEL USE		DATE	August 11, 2005 3:52:13 PM	PAGE	27 OF 56

7. 회로도





REV	DATE	BY	CHK	APP	DATE
01	8/11/2005	HJ Kim	PR-R		
02		SJ Park	1.1		

PL YMOOUTH
 LCD Connector &
 SPREAD SPECTRUM

SAMSUNG
 ELECTRONICS

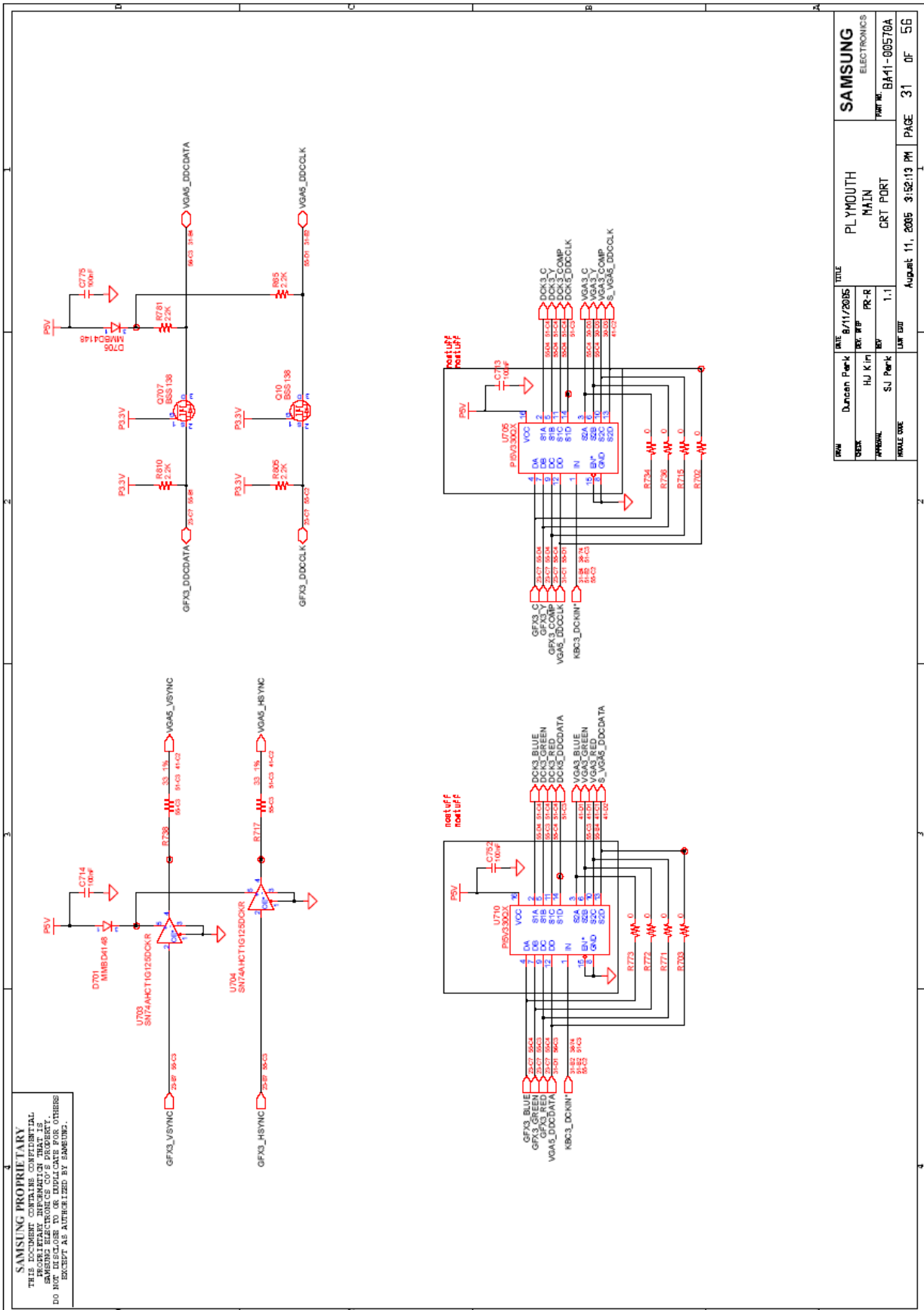
Part No. BA41-00570A

DATE OF 30 OF 56

August 11, 2005 3:52:13 PM

d:/users/mob/1616/next arr/ALurevout/PL Ymoouth-PRG-2881

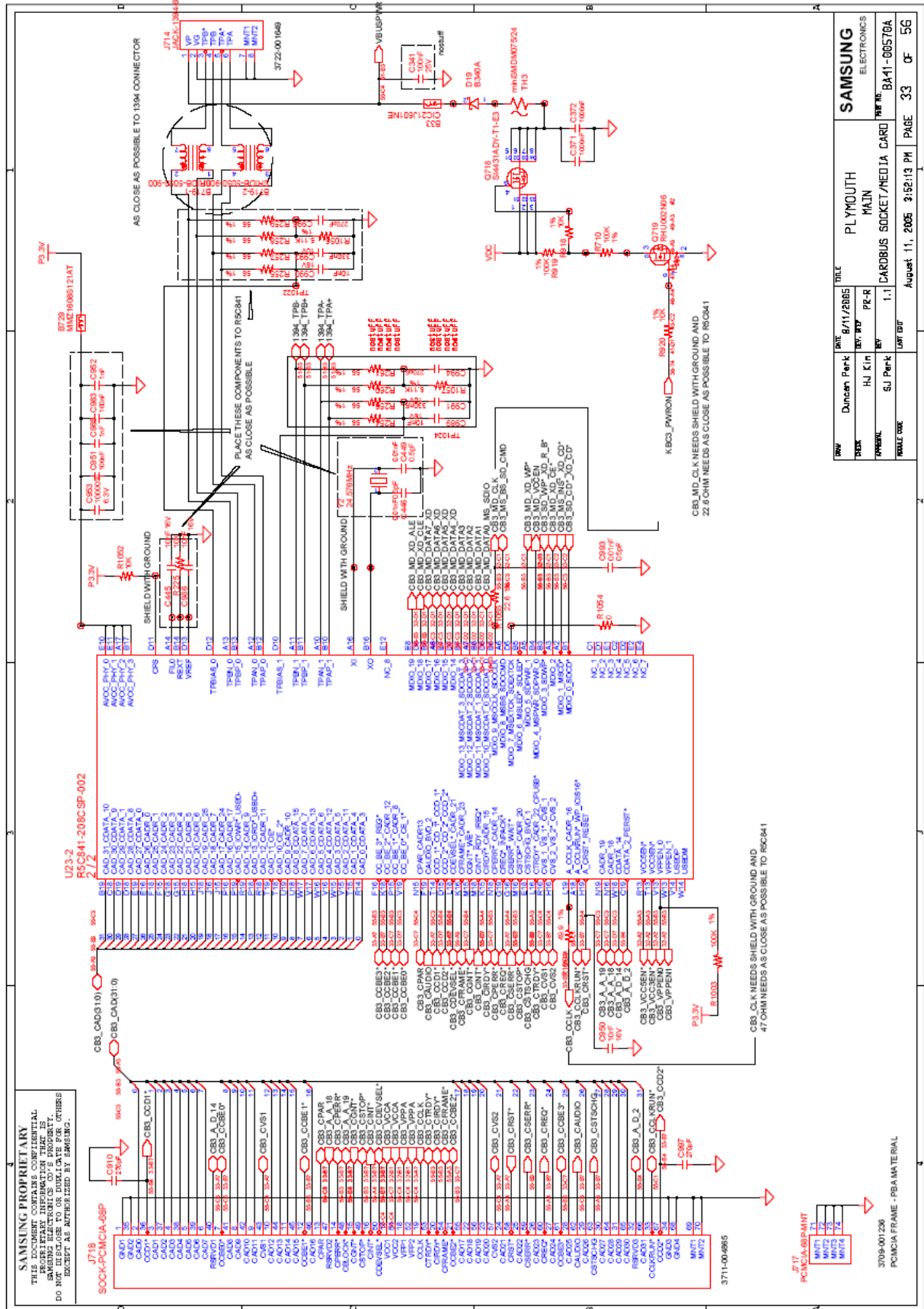
7. 회로도



REV	DATE	TITLE	SAMSUNG
000K	8/11/2005	PL YMOUTH MAIN CRT PORT	ELECTRONICS
APPROVAL	BY	DATE	PART NO.
HJ K In	RJ-R	August 11, 2005 3:52:13 PM	BA41-00570A
SJ Park	1.1		
SCALE CODE	DATE	PAGE	OF
		31	56

d:/users/mob.kc16/rent-ar/circuitry/plmouth/P803303X.PRG:2881

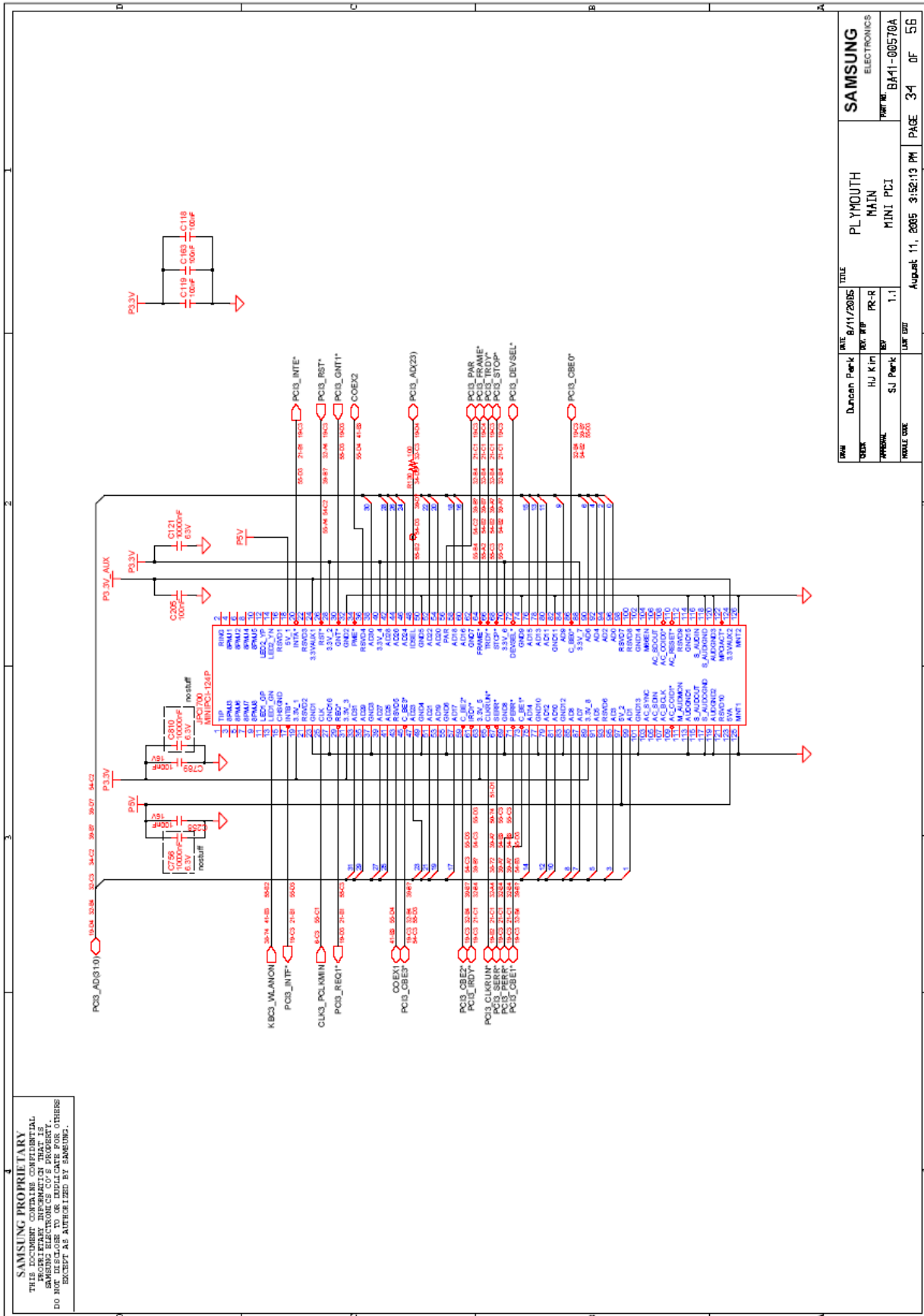
7. 회로도



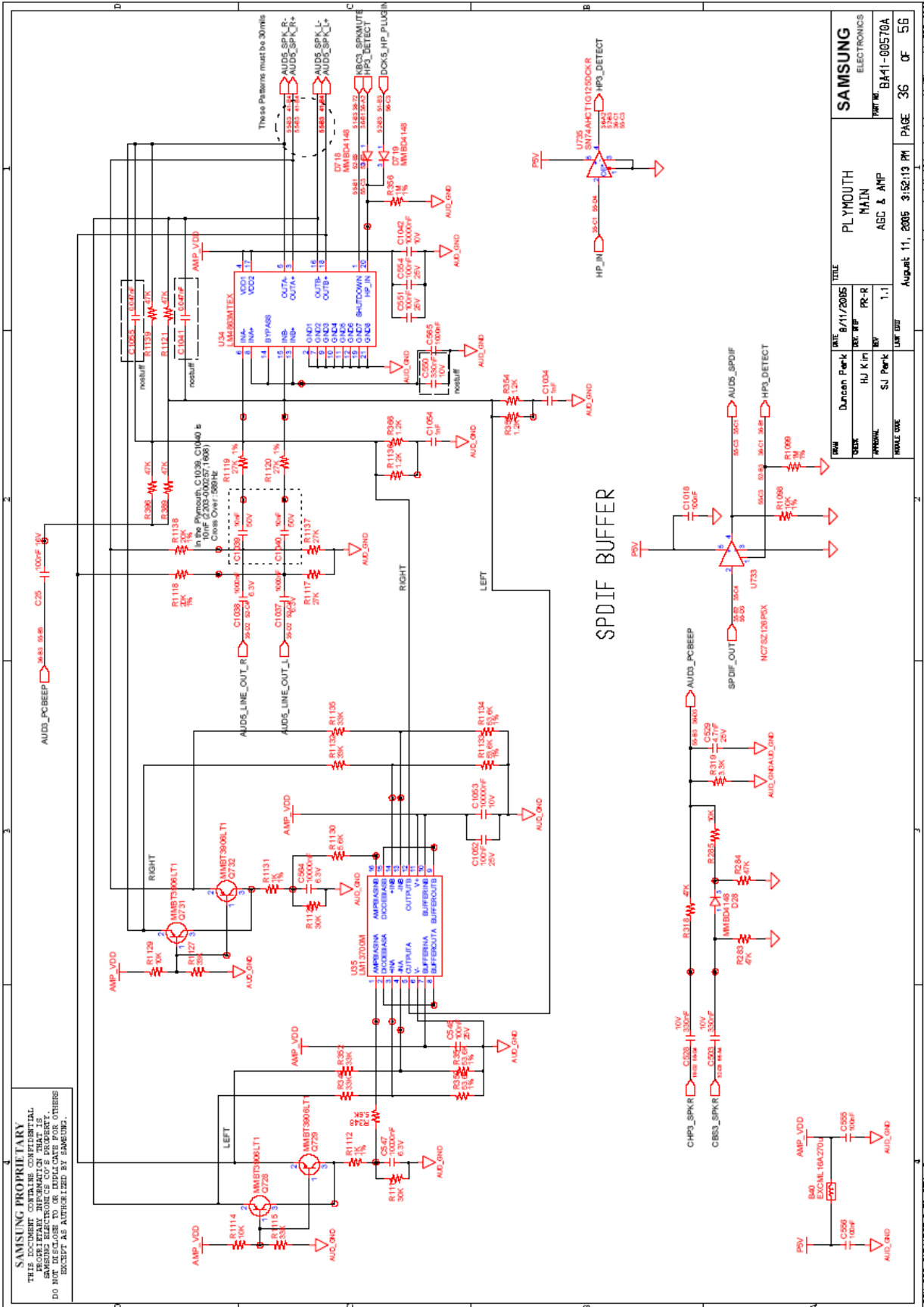
REV	DATE	BY	CHK	APP	DESCRIPTION
1	8/11/2005	HL	JK	PP-R	PLYMOUTH MAIN
2		SJ	Perk	1.1	CARDBUS SOCKET/MEDIA CARD
3		DF	DF		

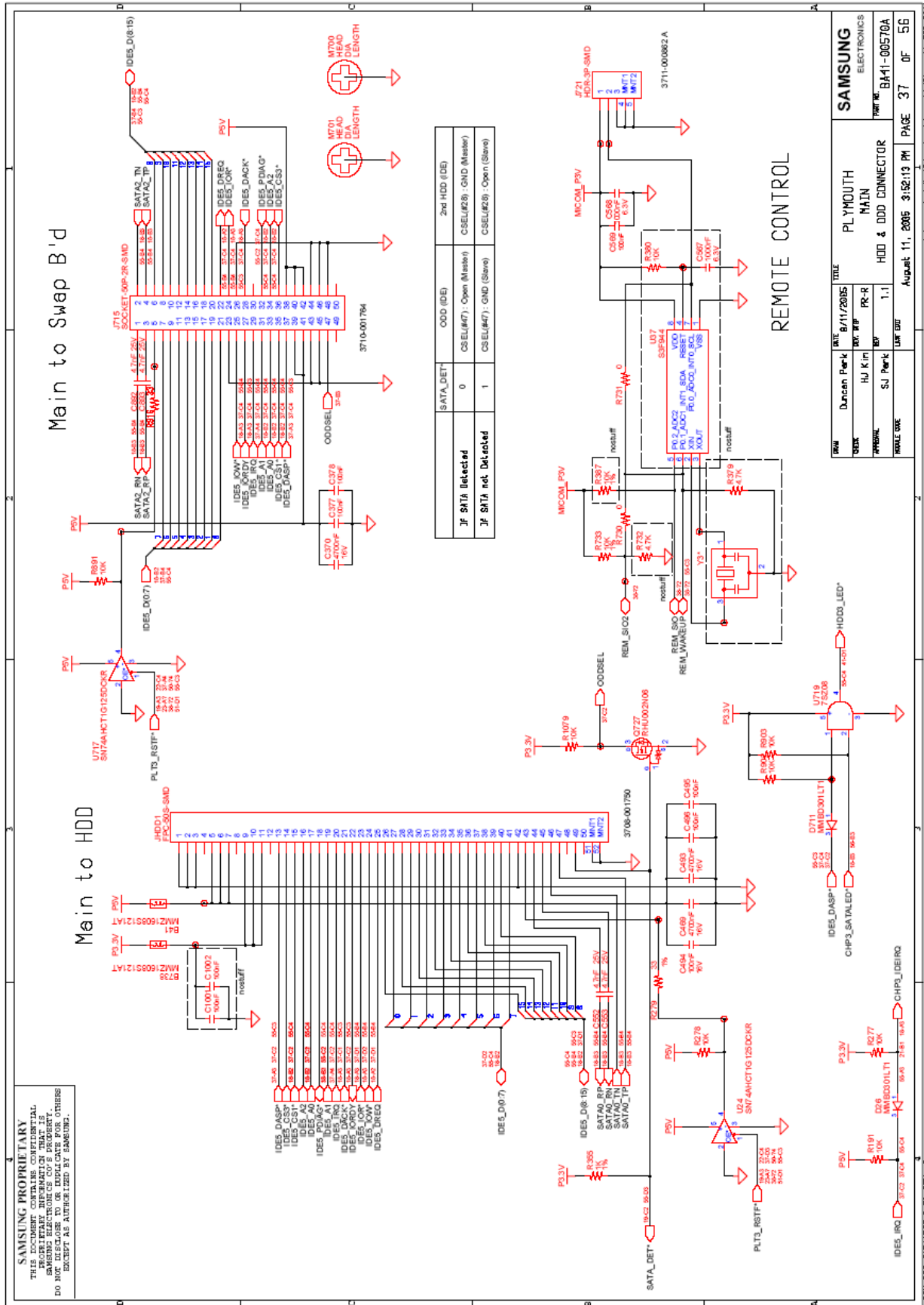
SAMSUNG ELECTRONICS
 PLYMOUTH MAIN
 CARDBUS SOCKET/MEDIA CARD
 REV. NO. BA11-00570A
 August 11, 2005 3:52:13 PM PAGE 33 OF 56
 d:/users/rel1616/mentor/plymouth/Plymouth_PRR_3871

7. 회로도



7. 회로도





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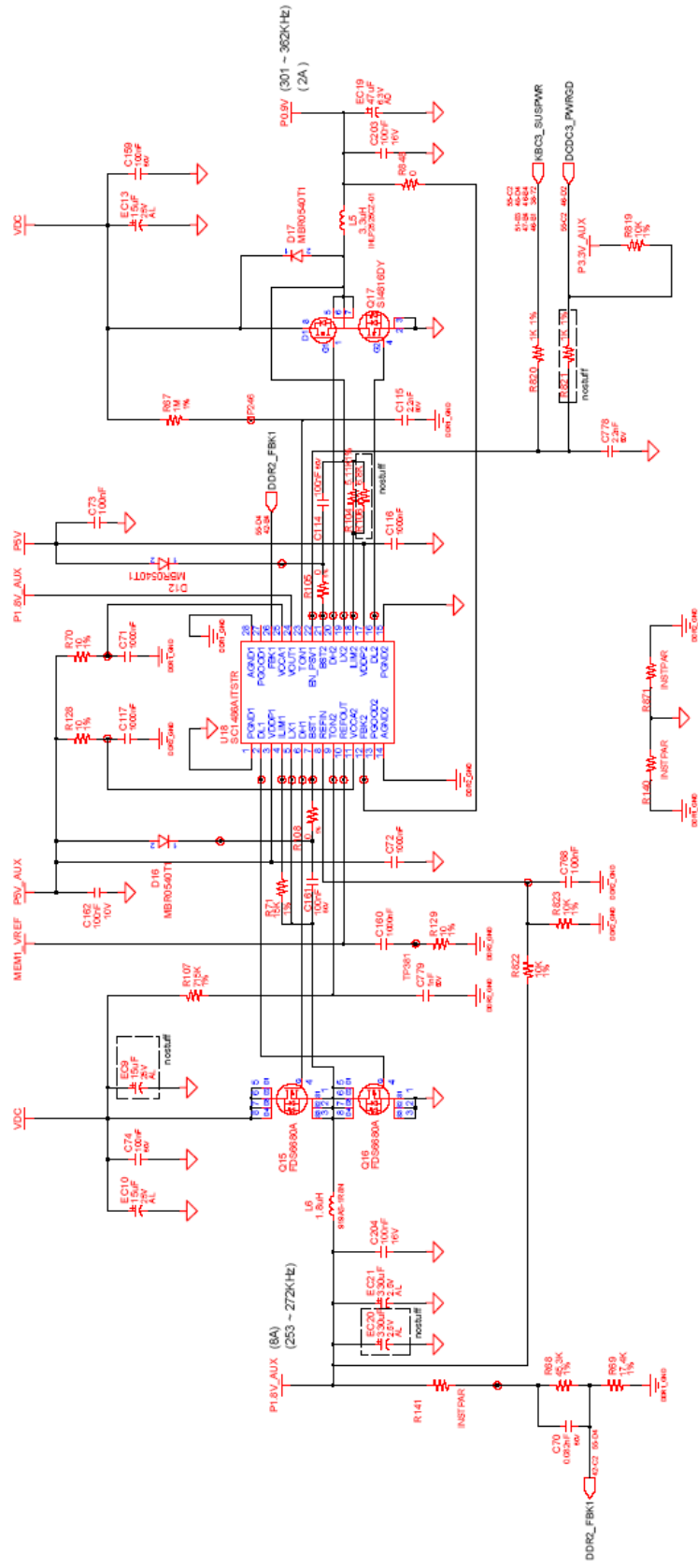
REV	DATE	BY	CHK	APP	DESCRIPTION
001	09/11/2005	HJ.K	W.P.	FR-R	PL YMOOUTH MAIN
002		HJ.K	W.P.	FR-R	HDD & DDD CONNECTOR
003		SJ	Perk	1.1	
004		WJ	DBT		

SAMSUNG
 ELECTRONICS
 PART NO. BA41-00570A
 August 11, 2005 3:52:13 PM PAGE 37 OF 56

7. 회로도

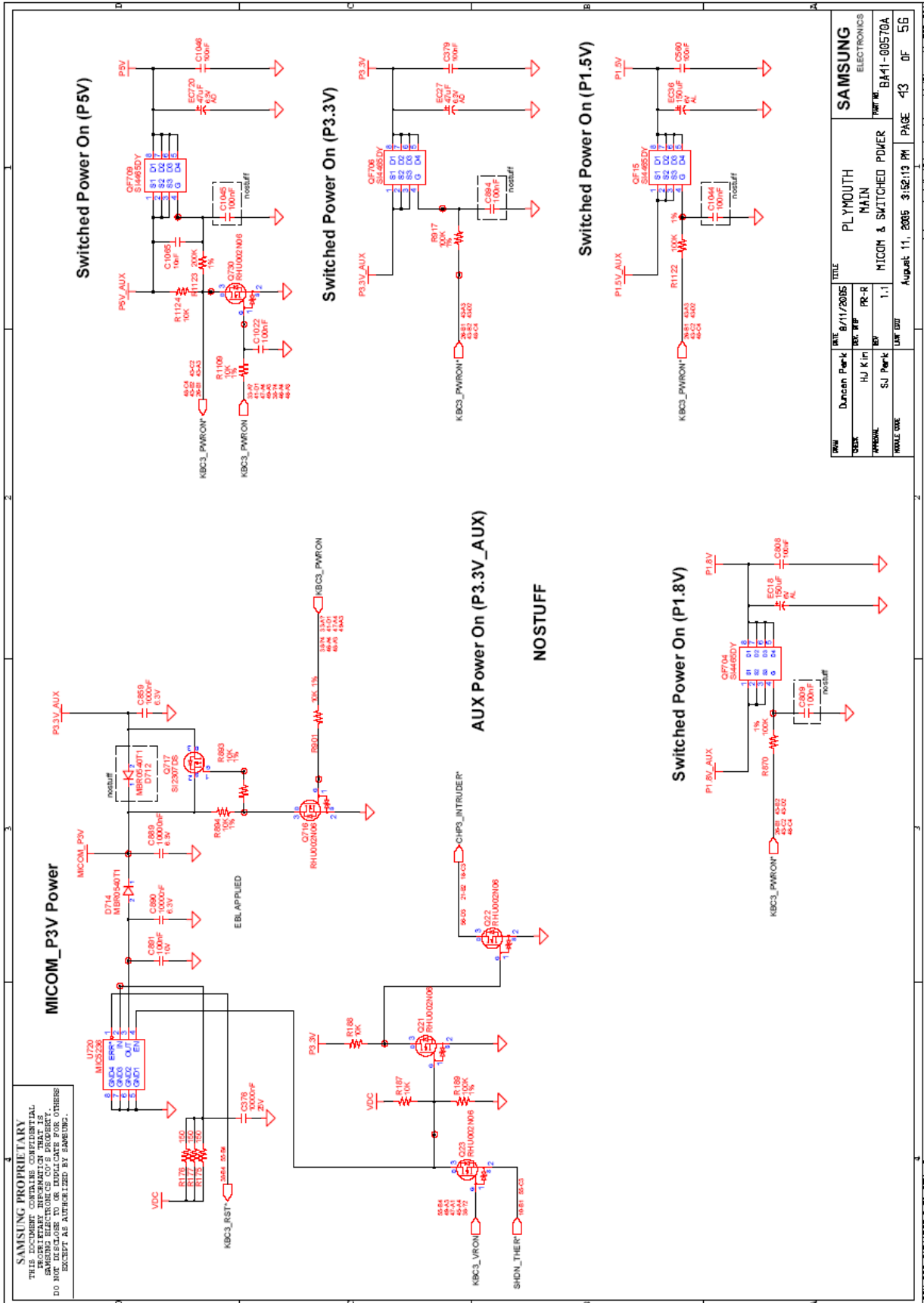
DDR2 Power

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REV	DATE	BY	CHK	APPVAL	DATE	TIME	TITLE	SAMSUNG
0001	08/11/2005	HJ K	PR-R	SJ Park	1.1	August 11, 2005 3:52:13 PM	PL YMOUTH MAIN DDR2 POWER	ELECTRONICS
0002								PART NO: BA41-00570A
								PAGE 42 OF 55

d:/Users/mob.t.c@167.net/arr/pl/ymouth/PL/ymouth-PWR-0811

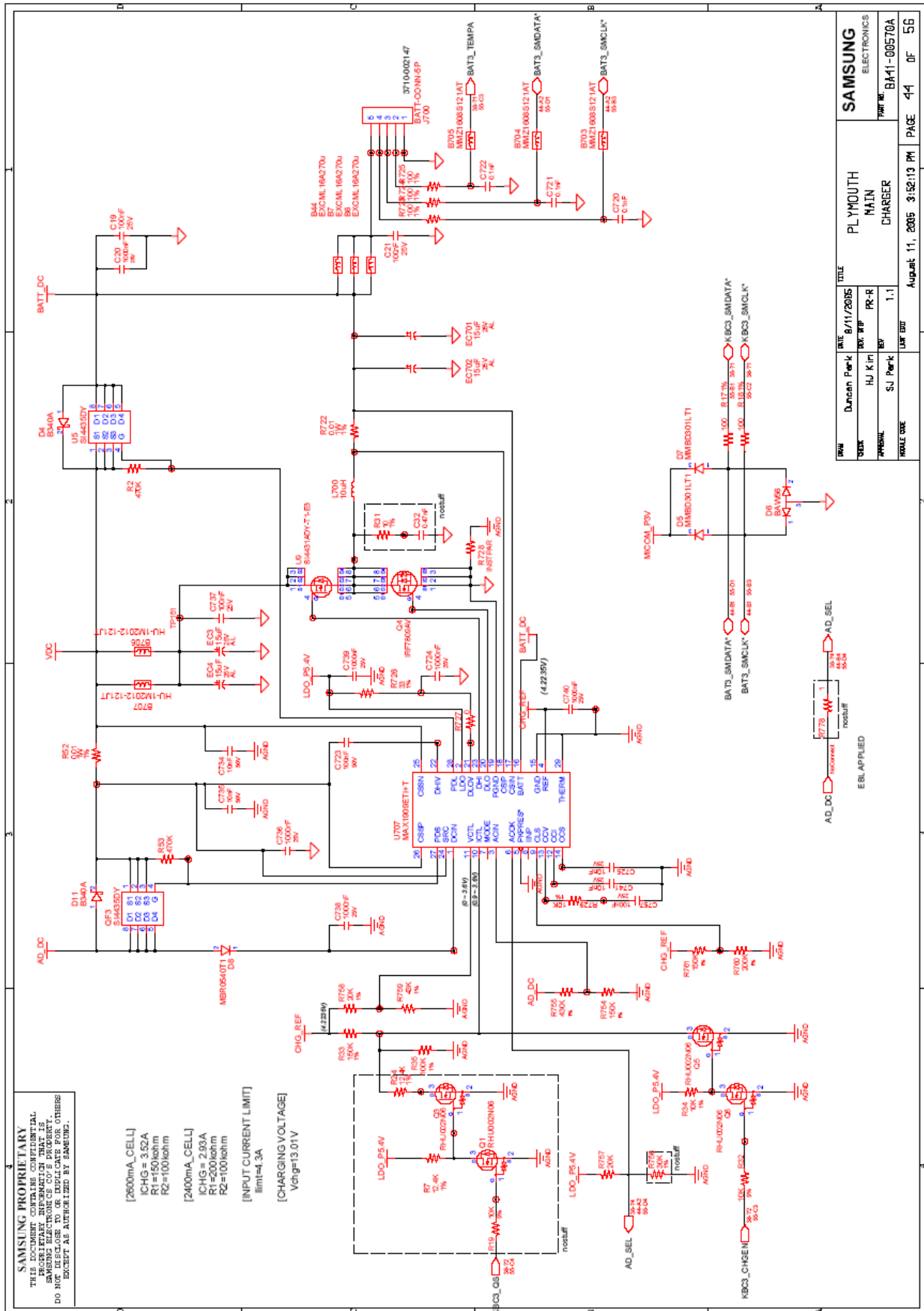


REV	DATE	BY	CHK	APP	DESCRIPTION
001	08/11/2005	HJ.K	FR	FR	MAIN
002	08/11/2005	SJ	FR	FR	MICOM & SWITCHED POWER
003	08/11/2005	SJ	FR	FR	1.1

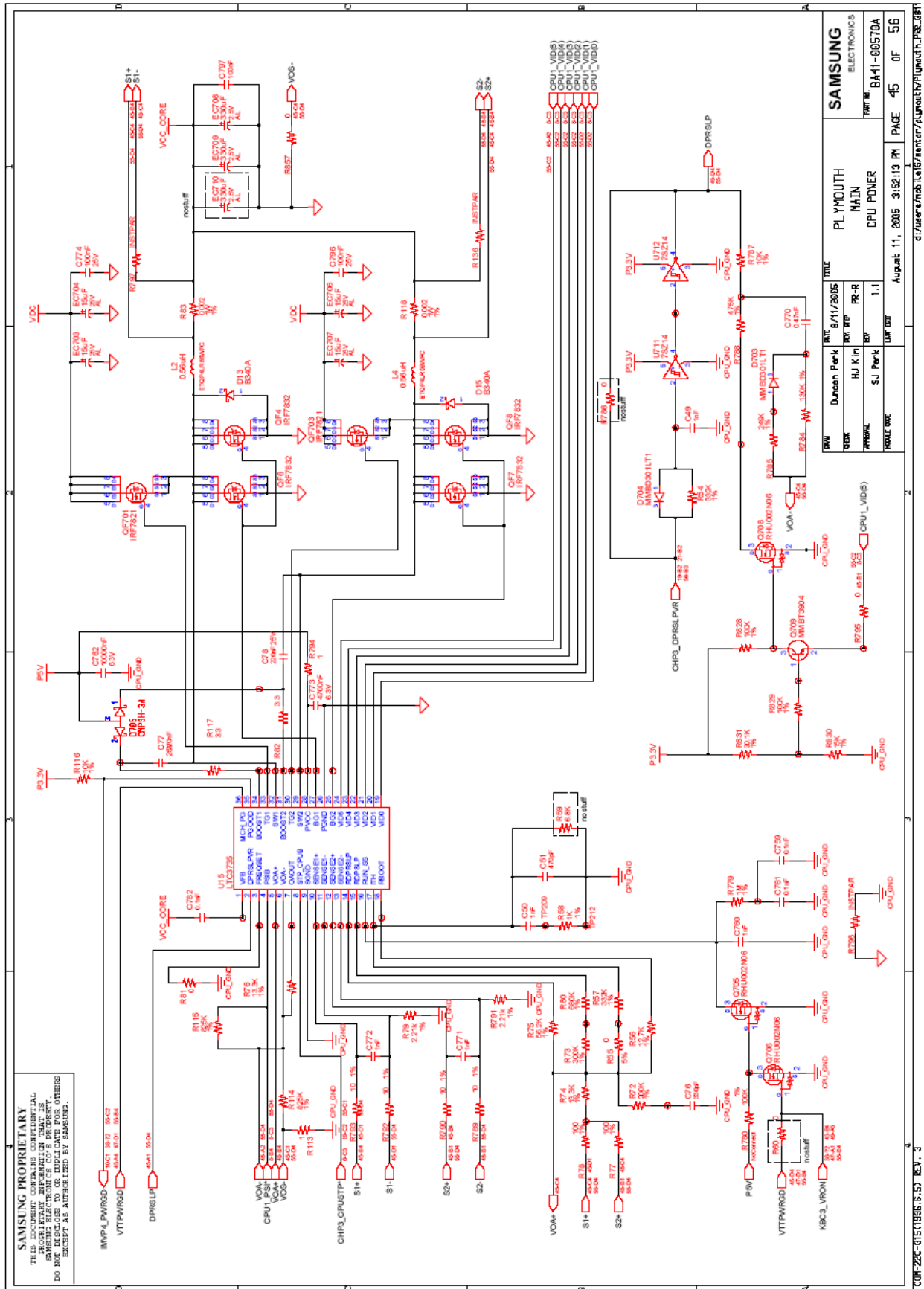
REV	DATE	BY	CHK	APP	DESCRIPTION
001	08/11/2005	HJ.K	FR	FR	MAIN
002	08/11/2005	SJ	FR	FR	MICOM & SWITCHED POWER
003	08/11/2005	SJ	FR	FR	1.1

REV	DATE	BY	CHK	APP	DESCRIPTION
001	08/11/2005	HJ.K	FR	FR	MAIN
002	08/11/2005	SJ	FR	FR	MICOM & SWITCHED POWER
003	08/11/2005	SJ	FR	FR	1.1

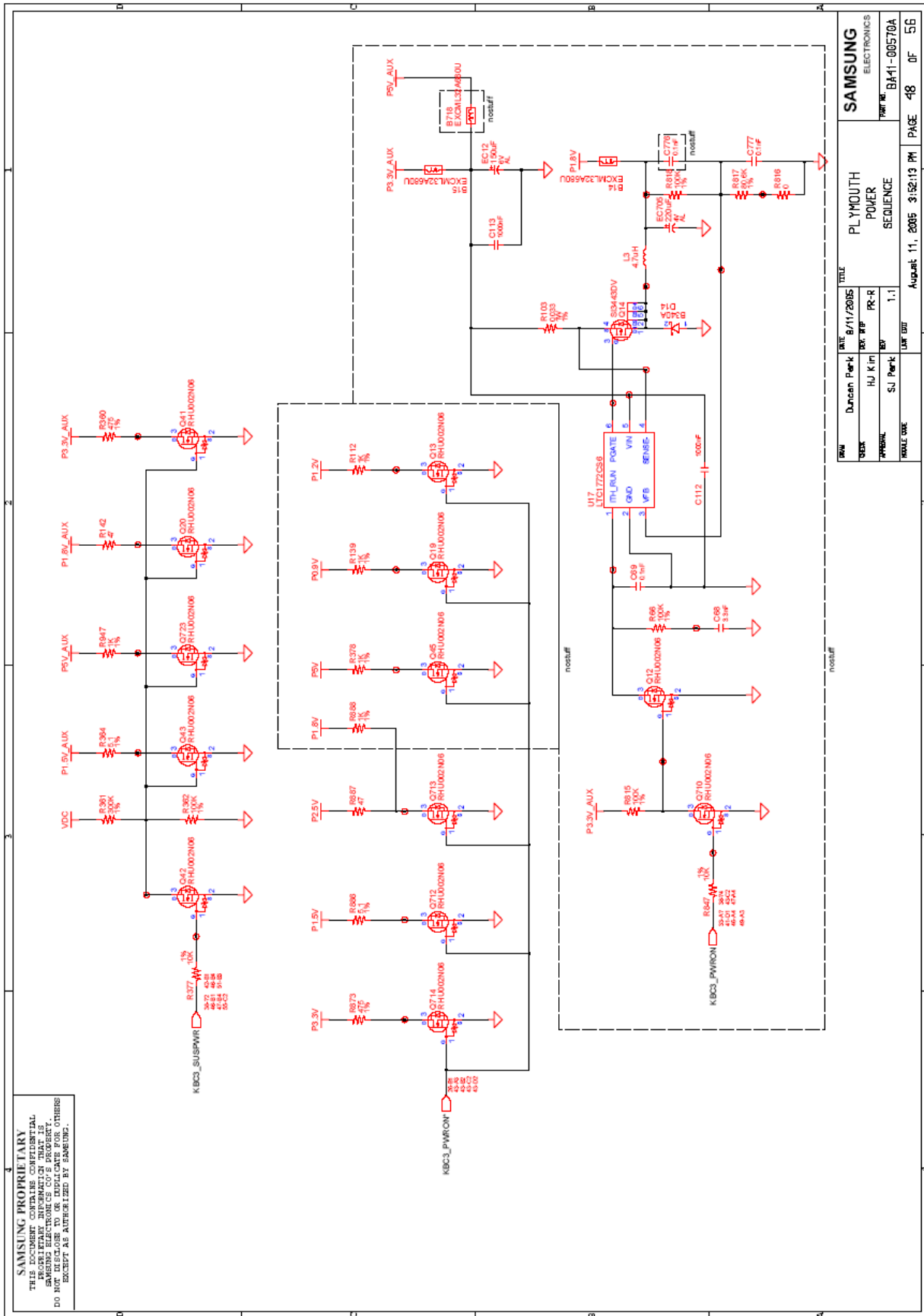
7. 회로도



7. 회로도



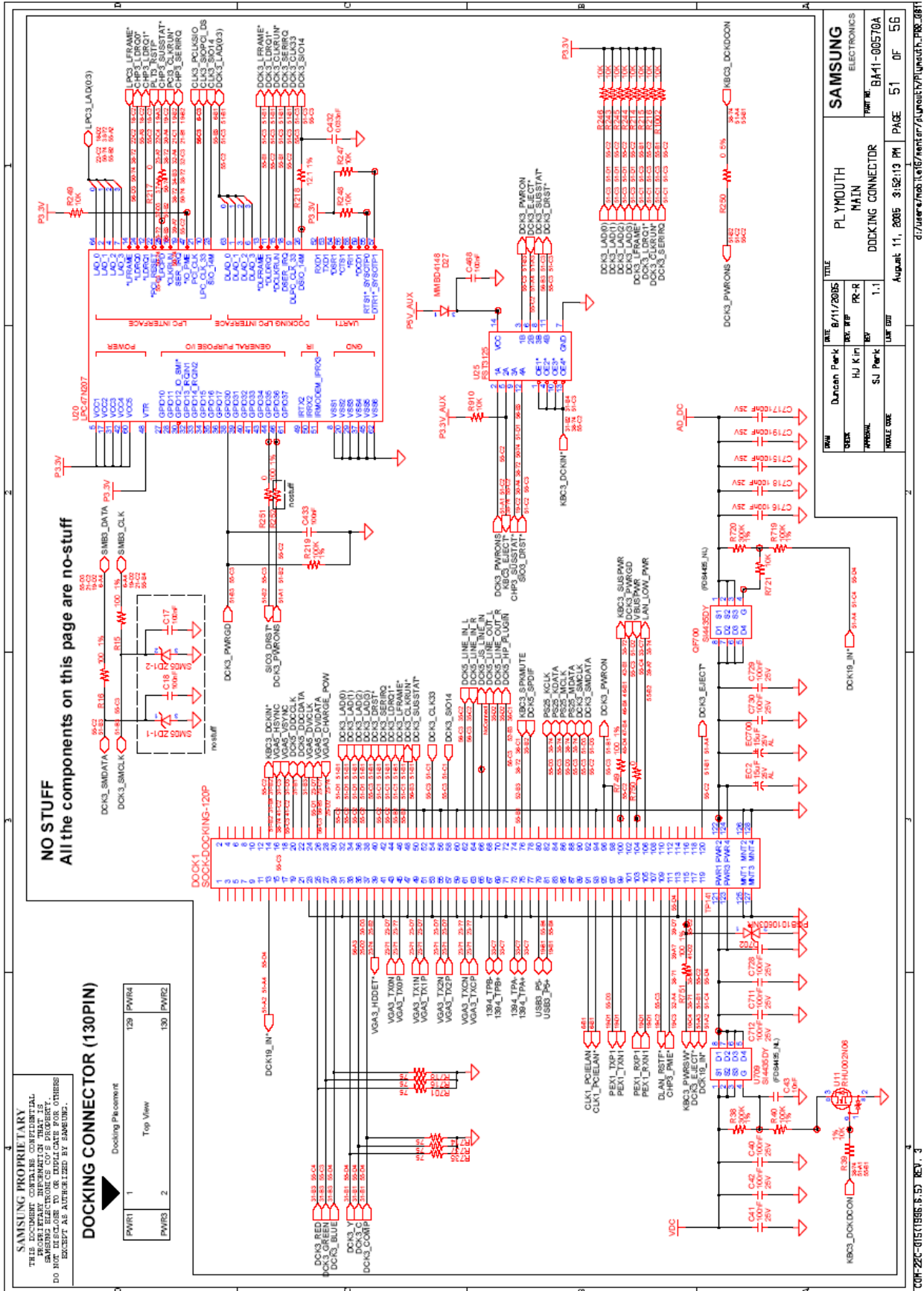
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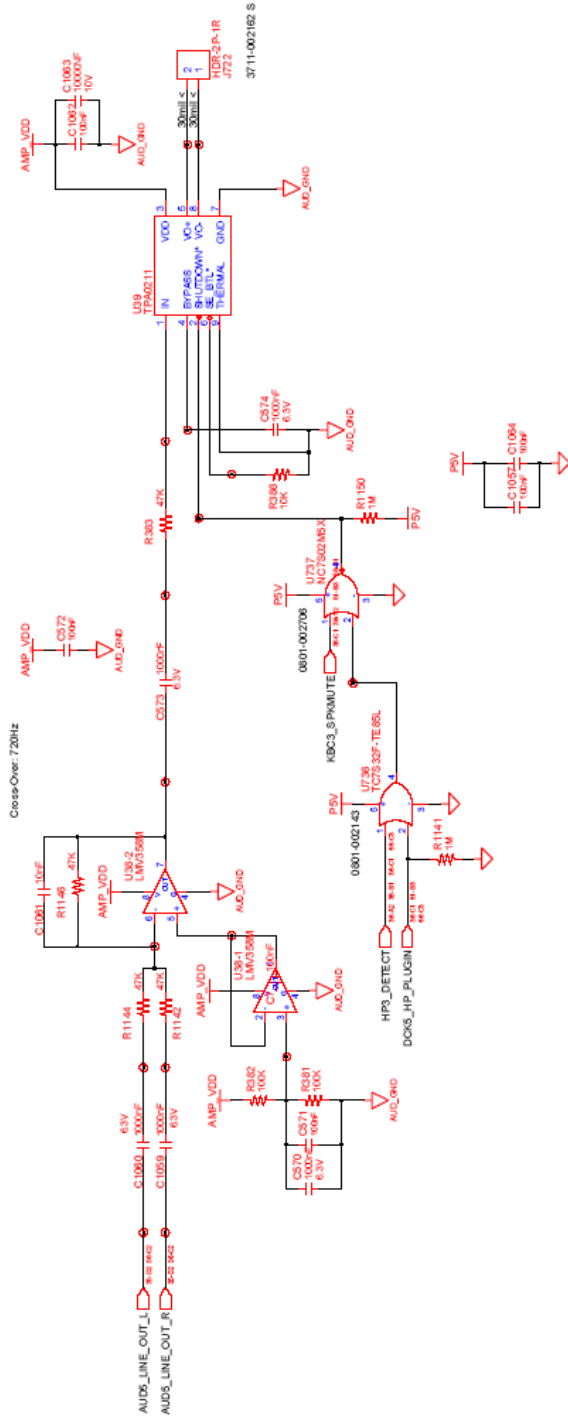
REV	DATE	BY	CHK	APP	DESCRIPTION
001	09/11/2005	HJ.KIP	PR-R		PLYMOUTH POWER SEQUENCE
002		SJ.Park	1:1		

TITLE: PLYMOUTH POWER SEQUENCE
 PART NO: BA41-00570A
 DATE: August 11, 2005 3:52:13 PM
 PAGE: 48 OF 56
 FILE: d:\users\mob\l\c16\rent\ar7\p\circuitry\plymouth.P08-28F1



7. 회로도

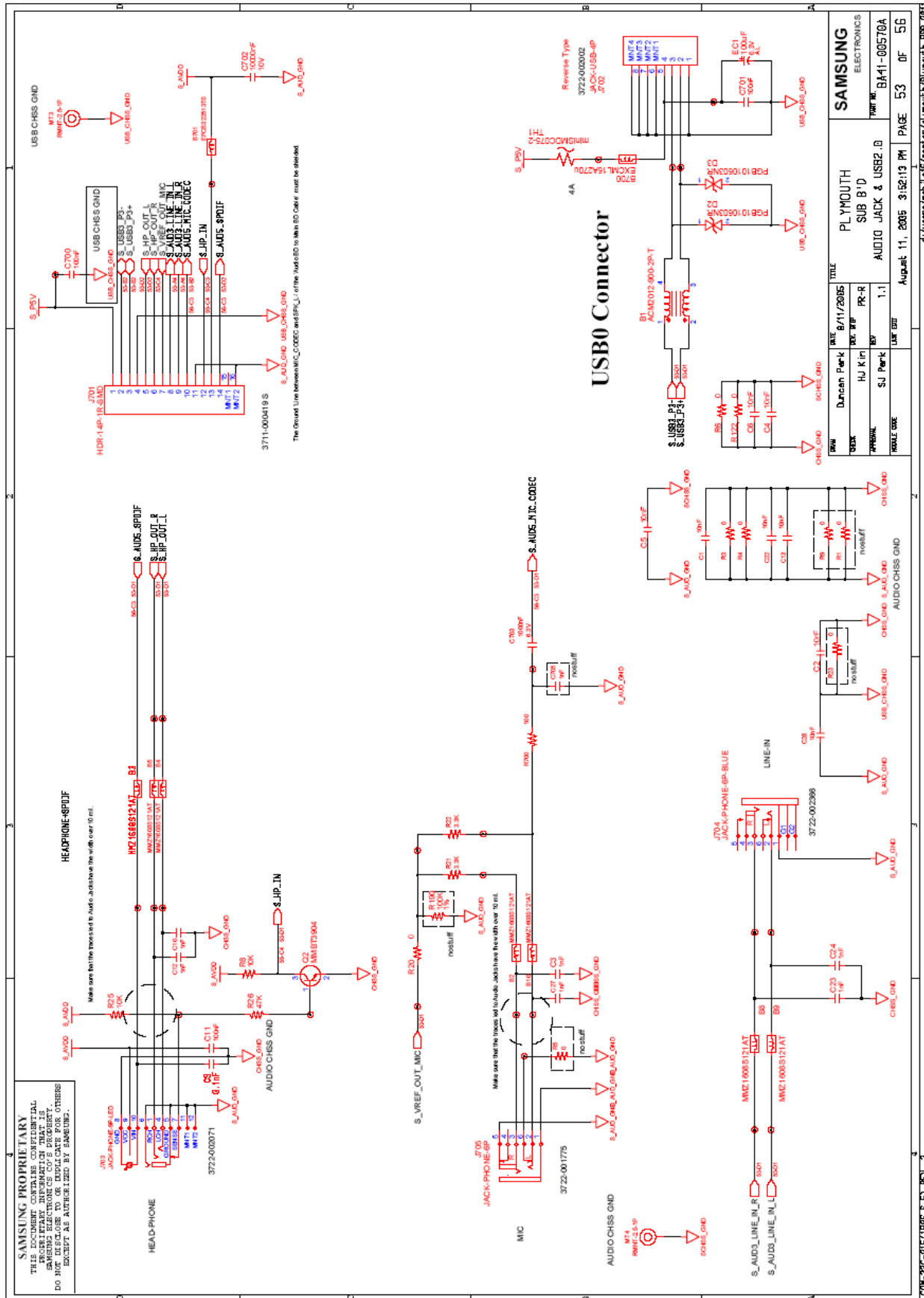
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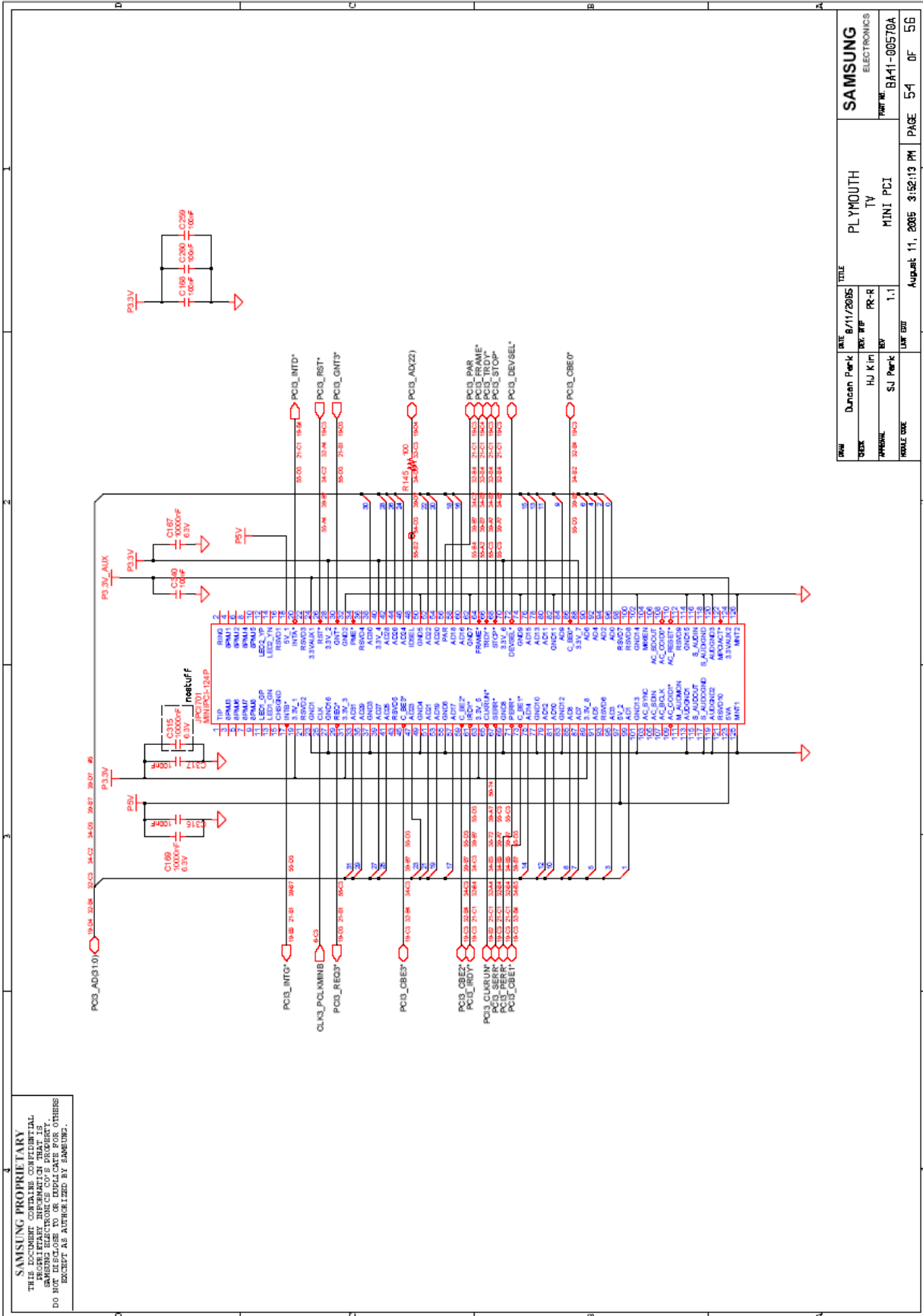
REV	Duncan Park	DATE	8/11/2005	TITLE	PLYMOUTH AUDIO WOOFER
DESIGN	HJ K Park	EXT	WF	PR-R	
APPROVAL	SJ Park	REV	1.1		
SCALE	DATE	DATE	August 11, 2005 3:52:13 PM	PAGE	52 OF 56

d:/users/mob.t/cel/rentar7/ALP/out/PLP/out/PLP-0811

7. 회로도



7. 회로도



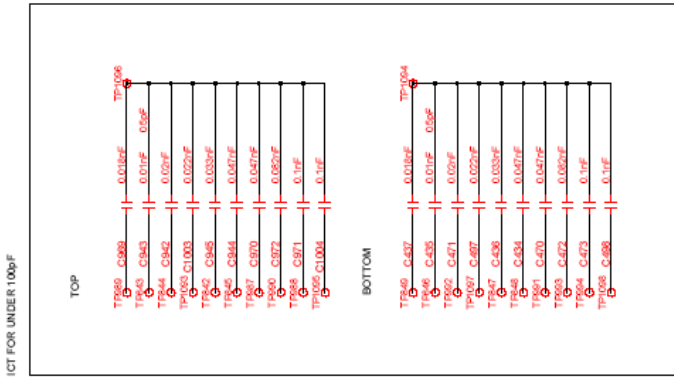
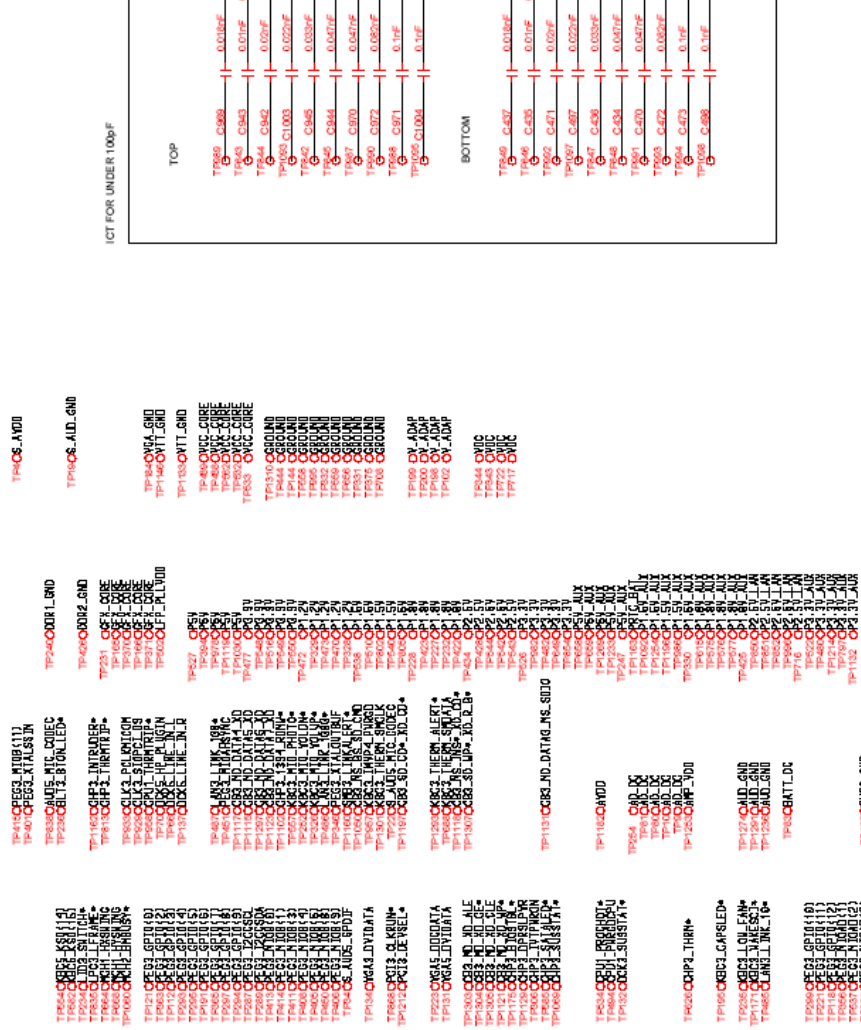
7. 회로도

REV	DATE	BY	CHK	APPVAL	TITLE	SAMSUNG ELECTRONICS
001	09/11/2005	HJ.KIM	PR-R	SJ.Park	PLYMOUTH POWER BLOCK UNDEFINED	PART NO. BA41-00570A
002						PAGE 55 OF 56
<p style="text-align: center;">August 11, 2005 3:52:13 PM</p>						<p style="text-align: right;">d:/users/mob.t.c@16/nant/ar7/plcunit2/plymouth_PBR_0811</p>

<p style="text-align: center;">SAMSUNG PROPRIETARY</p> <p style="text-align: center; font-size: small;">THIS DOCUMENT CONTAINS CONFIDENTIAL REGULATORY INFORMATION THAT IS NOT TO BE DISCLOSED TO OR REPRODUCED BY OTHERS EXCEPT AS AUTHORIZED BY SAMSUNG.</p>	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%; text-align: center;"> <p>TP1010 CPU3_PFE*</p> <p>TP1100 CPU3_SPK*</p> </div> <div style="width: 33%; text-align: center;"> <p>TP7700 CPU1_INT*</p> <p>TP7800 CPU1_P81*</p> </div> <div style="width: 33%; text-align: center;"> <p>TP4000 CPU1_B1P*</p> <p>TP8005 CPU1_B1M*</p> <p>TP1000 CPU2_B1M*</p> <p>TP1005 CPU2_B1M*</p> <p>TP1010 CPU2_B1M*</p> <p>TP1015 CPU2_B1M*</p> <p>TP1020 CPU2_B1M*</p> <p>TP1025 CPU2_B1M*</p> <p>TP1030 CPU2_B1M*</p> <p>TP1035 CPU2_B1M*</p> <p>TP1040 CPU2_B1M*</p> <p>TP1045 CPU2_B1M*</p> <p>TP1050 CPU2_B1M*</p> <p>TP1055 CPU2_B1M*</p> <p>TP1060 CPU2_B1M*</p> <p>TP1065 CPU2_B1M*</p> <p>TP1070 CPU2_B1M*</p> <p>TP1075 CPU2_B1M*</p> <p>TP1080 CPU2_B1M*</p> <p>TP1085 CPU2_B1M*</p> <p>TP1090 CPU2_B1M*</p> <p>TP1095 CPU2_B1M*</p> <p>TP1100 CPU2_B1M*</p> <p>TP1105 CPU2_B1M*</p> <p>TP1110 CPU2_B1M*</p> <p>TP1115 CPU2_B1M*</p> <p>TP1120 CPU2_B1M*</p> <p>TP1125 CPU2_B1M*</p> <p>TP1130 CPU2_B1M*</p> <p>TP1135 CPU2_B1M*</p> <p>TP1140 CPU2_B1M*</p> <p>TP1145 CPU2_B1M*</p> <p>TP1150 CPU2_B1M*</p> <p>TP1155 CPU2_B1M*</p> <p>TP1160 CPU2_B1M*</p> <p>TP1165 CPU2_B1M*</p> <p>TP1170 CPU2_B1M*</p> <p>TP1175 CPU2_B1M*</p> <p>TP1180 CPU2_B1M*</p> <p>TP1185 CPU2_B1M*</p> <p>TP1190 CPU2_B1M*</p> <p>TP1195 CPU2_B1M*</p> <p>TP1200 CPU2_B1M*</p> <p>TP1205 CPU2_B1M*</p> <p>TP1210 CPU2_B1M*</p> <p>TP1215 CPU2_B1M*</p> <p>TP1220 CPU2_B1M*</p> <p>TP1225 CPU2_B1M*</p> <p>TP1230 CPU2_B1M*</p> <p>TP1235 CPU2_B1M*</p> <p>TP1240 CPU2_B1M*</p> <p>TP1245 CPU2_B1M*</p> <p>TP1250 CPU2_B1M*</p> <p>TP1255 CPU2_B1M*</p> <p>TP1260 CPU2_B1M*</p> <p>TP1265 CPU2_B1M*</p> <p>TP1270 CPU2_B1M*</p> <p>TP1275 CPU2_B1M*</p> <p>TP1280 CPU2_B1M*</p> <p>TP1285 CPU2_B1M*</p> <p>TP1290 CPU2_B1M*</p> <p>TP1295 CPU2_B1M*</p> <p>TP1300 CPU2_B1M*</p> <p>TP1305 CPU2_B1M*</p> <p>TP1310 CPU2_B1M*</p> <p>TP1315 CPU2_B1M*</p> <p>TP1320 CPU2_B1M*</p> <p>TP1325 CPU2_B1M*</p> <p>TP1330 CPU2_B1M*</p> <p>TP1335 CPU2_B1M*</p> <p>TP1340 CPU2_B1M*</p> <p>TP1345 CPU2_B1M*</p> <p>TP1350 CPU2_B1M*</p> <p>TP1355 CPU2_B1M*</p> <p>TP1360 CPU2_B1M*</p> <p>TP1365 CPU2_B1M*</p> <p>TP1370 CPU2_B1M*</p> <p>TP1375 CPU2_B1M*</p> <p>TP1380 CPU2_B1M*</p> <p>TP1385 CPU2_B1M*</p> <p>TP1390 CPU2_B1M*</p> <p>TP1395 CPU2_B1M*</p> <p>TP1400 CPU2_B1M*</p> <p>TP1405 CPU2_B1M*</p> <p>TP1410 CPU2_B1M*</p> <p>TP1415 CPU2_B1M*</p> <p>TP1420 CPU2_B1M*</p> <p>TP1425 CPU2_B1M*</p> <p>TP1430 CPU2_B1M*</p> <p>TP1435 CPU2_B1M*</p> <p>TP1440 CPU2_B1M*</p> <p>TP1445 CPU2_B1M*</p> <p>TP1450 CPU2_B1M*</p> <p>TP1455 CPU2_B1M*</p> <p>TP1460 CPU2_B1M*</p> <p>TP1465 CPU2_B1M*</p> <p>TP1470 CPU2_B1M*</p> <p>TP1475 CPU2_B1M*</p> <p>TP1480 CPU2_B1M*</p> <p>TP1485 CPU2_B1M*</p> <p>TP1490 CPU2_B1M*</p> <p>TP1495 CPU2_B1M*</p> <p>TP1500 CPU2_B1M*</p> <p>TP1505 CPU2_B1M*</p> <p>TP1510 CPU2_B1M*</p> <p>TP1515 CPU2_B1M*</p> <p>TP1520 CPU2_B1M*</p> <p>TP1525 CPU2_B1M*</p> <p>TP1530 CPU2_B1M*</p> <p>TP1535 CPU2_B1M*</p> <p>TP1540 CPU2_B1M*</p> <p>TP1545 CPU2_B1M*</p> <p>TP1550 CPU2_B1M*</p> <p>TP1555 CPU2_B1M*</p> <p>TP1560 CPU2_B1M*</p> <p>TP1565 CPU2_B1M*</p> <p>TP1570 CPU2_B1M*</p> <p>TP1575 CPU2_B1M*</p> <p>TP1580 CPU2_B1M*</p> <p>TP1585 CPU2_B1M*</p> <p>TP1590 CPU2_B1M*</p> <p>TP1595 CPU2_B1M*</p> <p>TP1600 CPU2_B1M*</p> <p>TP1605 CPU2_B1M*</p> <p>TP1610 CPU2_B1M*</p> <p>TP1615 CPU2_B1M*</p> <p>TP1620 CPU2_B1M*</p> <p>TP1625 CPU2_B1M*</p> <p>TP1630 CPU2_B1M*</p> <p>TP1635 CPU2_B1M*</p> <p>TP1640 CPU2_B1M*</p> <p>TP1645 CPU2_B1M*</p> <p>TP1650 CPU2_B1M*</p> <p>TP1655 CPU2_B1M*</p> <p>TP1660 CPU2_B1M*</p> <p>TP1665 CPU2_B1M*</p> <p>TP1670 CPU2_B1M*</p> <p>TP1675 CPU2_B1M*</p> <p>TP1680 CPU2_B1M*</p> <p>TP1685 CPU2_B1M*</p> <p>TP1690 CPU2_B1M*</p> <p>TP1695 CPU2_B1M*</p> <p>TP1700 CPU2_B1M*</p> 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7. 회로도

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PLYMOUTH POWER BLOCK UNDEFINED							
PART NO. BA41-00570A							
PAGE 56 OF 56							

7. 회로도

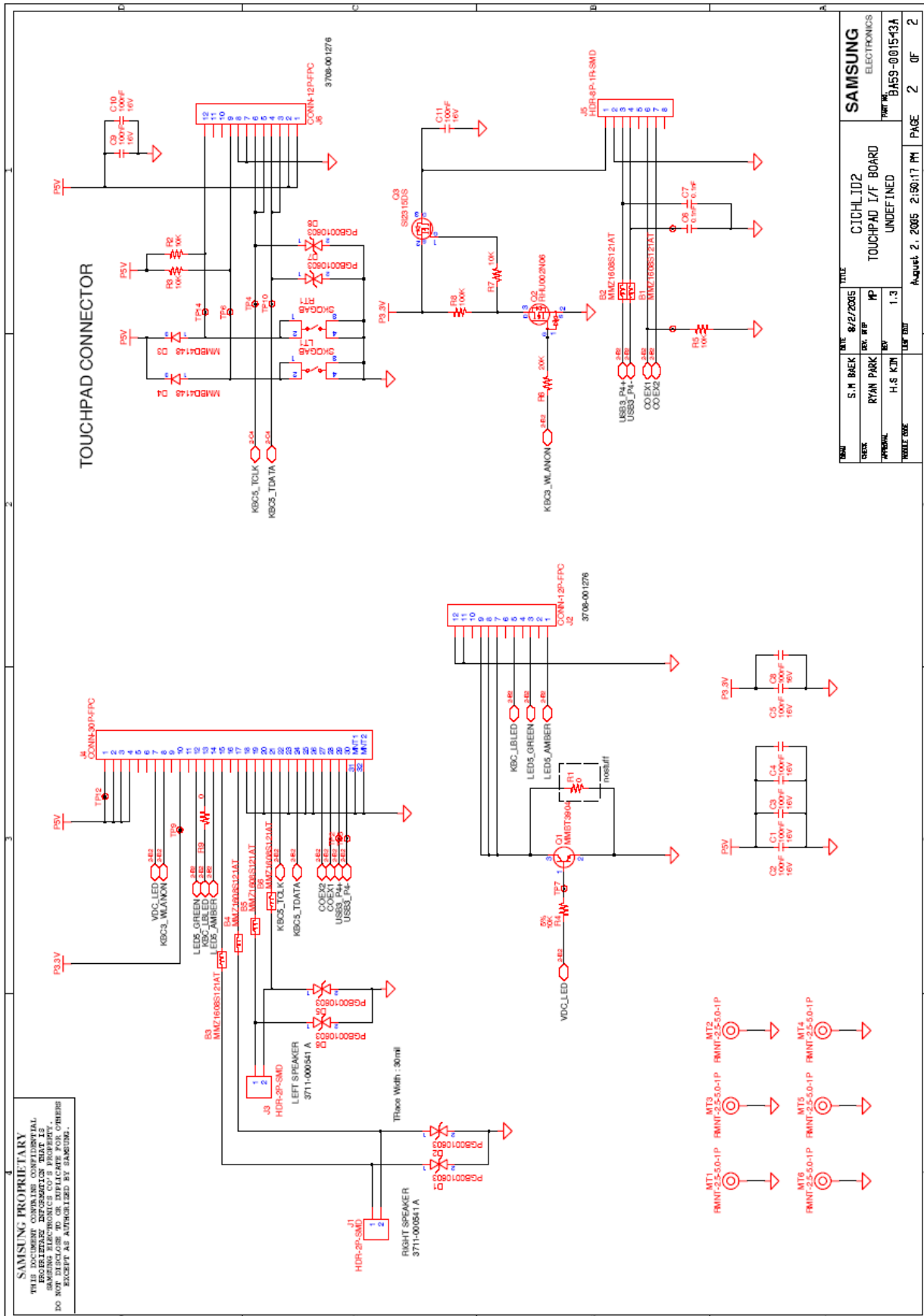
2) Touchpad I/F Board

<p style="font-size: 8px; margin: 0;">SAMSUNG PROPRIETARY THIS DOCUMENT CONTAINS CONFIDENTIAL PROPRIETARY INFORMATION THAT IS NOT TO BE DISCLOSED TO OR REPRODUCED BY ANY OTHER PERSON WITHOUT THE EXPRESS WRITTEN PERMISSION OF SAMSUNG. EXCEPT AS AUTHORIZED BY SAMSUNG.</p>	<h1 style="margin: 0;">CICHLID-II</h1> <p style="margin: 0;">CPU : Chip Set : Remarks :</p>	<table border="1" style="width: 100%; border-collapse: collapse; font-size: 8px;"> <tr> <td style="width: 15%;">DATE</td> <td>08/27/2005</td> <td style="width: 15%;">TITLE</td> <td>CICHLID02 TOUCHPAD I/F BOARD</td> <td style="width: 15%;">SAMSUNG</td> </tr> <tr> <td>DRW</td> <td>S.M. BAEK</td> <td>REV. REF</td> <td>MP</td> <td>ELECTRONICS</td> </tr> <tr> <td>APPVAL</td> <td>RYAN PARK</td> <td>REV</td> <td>1.3</td> <td>PART NO</td> </tr> <tr> <td>TABLE USE</td> <td>H.S. KIM</td> <td>DATE TIME</td> <td>August 21, 2005 2:50:17 PM</td> <td>BA59-001543A</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>PAGE 1 OF 2</td> </tr> </table>	DATE	08/27/2005	TITLE	CICHLID02 TOUCHPAD I/F BOARD	SAMSUNG	DRW	S.M. BAEK	REV. REF	MP	ELECTRONICS	APPVAL	RYAN PARK	REV	1.3	PART NO	TABLE USE	H.S. KIM	DATE TIME	August 21, 2005 2:50:17 PM	BA59-001543A					PAGE 1 OF 2
DATE	08/27/2005	TITLE	CICHLID02 TOUCHPAD I/F BOARD	SAMSUNG																							
DRW	S.M. BAEK	REV. REF	MP	ELECTRONICS																							
APPVAL	RYAN PARK	REV	1.3	PART NO																							
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Dev. Step : MP																											
Revision : 1.3																											
T.R. Date : 2005.08.02																											
DRAW	CHECK	APPROVAL																									

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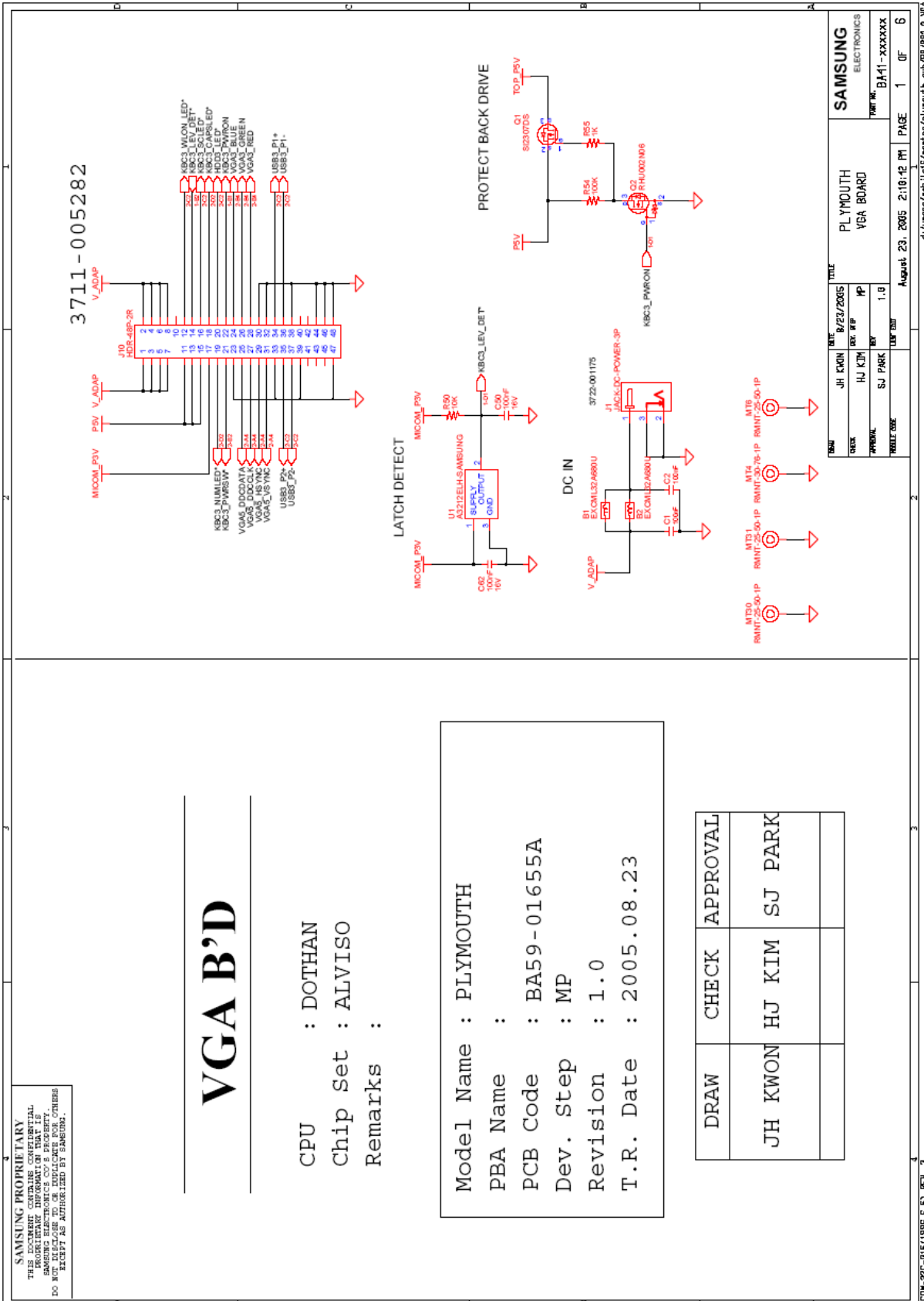
GUP-25C-015 (1996.5.5) REV. 3

7. 회로도



7. 회로도

3) VGA Board



7. 회로도

4) Battery I/F Board

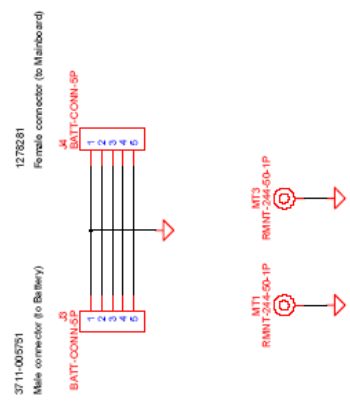
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BATTERY I/F B'D

CPU : DOTHAN
 Chip Set : ALVISO
 Remarks :

Model Name : PLYMOUTH
 PBA Name :
 PCB Code : BA59-01656A
 Dev. Step : MP
 Revision : 1.0
 T.R. Date : 2005.08.23

DRAW	CHECK	APPROVAL
JH KWON	HJ KIM	SJ PARK



DESIGNER	JH KWON	DATE	8/23/2005	TITLE	PLYMOUTH BATTERY I/F BD
APPROVAL	HJ KIM	REV. NO.	1P	PART NO.	BA59-XXXXXX
TABLE NO.	SJ PARK	REV. DATE	1.0	PAGE	3 OF 6
August 23, 2005 2:10:42 PM					

d:\user\rd\1etf\mentor\plymouth_amb\PR1_0_V1A

7. 회로도

5) SVHS Board

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SVHS B'D

CPU : DOTHAN
 Chip Set : ALVISO
 Remarks :

Model Name : PLYMOUTH
 PBA Name :
 PCB Code : BA59-01653A
 Dev. Step : MP
 Revision : 1.0
 T.R. Date : 2005.08.23

DRAW	CHECK	APPROVAL
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DESIGNER	JH KWON	DATE	8/23/2005	TITLE	PLYMOUTH SVHS BD	COMPANY	SAMSUNG ELECTRONICS
APPROVAL	HJ KIM	REV	MP	DATE		PART NO.	BA41-xxxxxx
TABLE NO.	SJ PARK	VER	1.0	DATE	August 23, 2005 2:10:42 PM	PAGE	4 OF 6

7. 회로도

6) TV Antenna Board

<p style="font-size: 8px; margin: 0;">SAMSUNG PROPRIETARY THIS DOCUMENT CONTAINS CONFIDENTIAL SAMSUNG ELECTRONICS CO.'S PROPERTY. DO NOT DISCLOSE TO OR IMPLICATE FOR OTHERS EXCEPT AS AUTHORIZED BY SAMSUNG.</p>	<h1 style="margin: 0;">TV ANTENNA B'D</h1>	<p>CPU : DOTHAN Chip Set : ALVISO Remarks :</p>	<div style="border: 1px solid black; padding: 5px;"> <p>Model Name : PLYMOUTH PBA Name : PCB Code : BA59-01654A Dev. Step : MP Revision : 1.0 T.R. Date : 2005.08.23</p> </div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">DRAW</th> <th style="width: 30%;">CHECK</th> <th style="width: 40%;">APPROVAL</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">JH KWON</td> <td style="text-align: center;">HJ KIM</td> <td style="text-align: center;">SJ PARK</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	DRAW	CHECK	APPROVAL	JH KWON	HJ KIM	SJ PARK			
DRAW	CHECK	APPROVAL											
JH KWON	HJ KIM	SJ PARK											

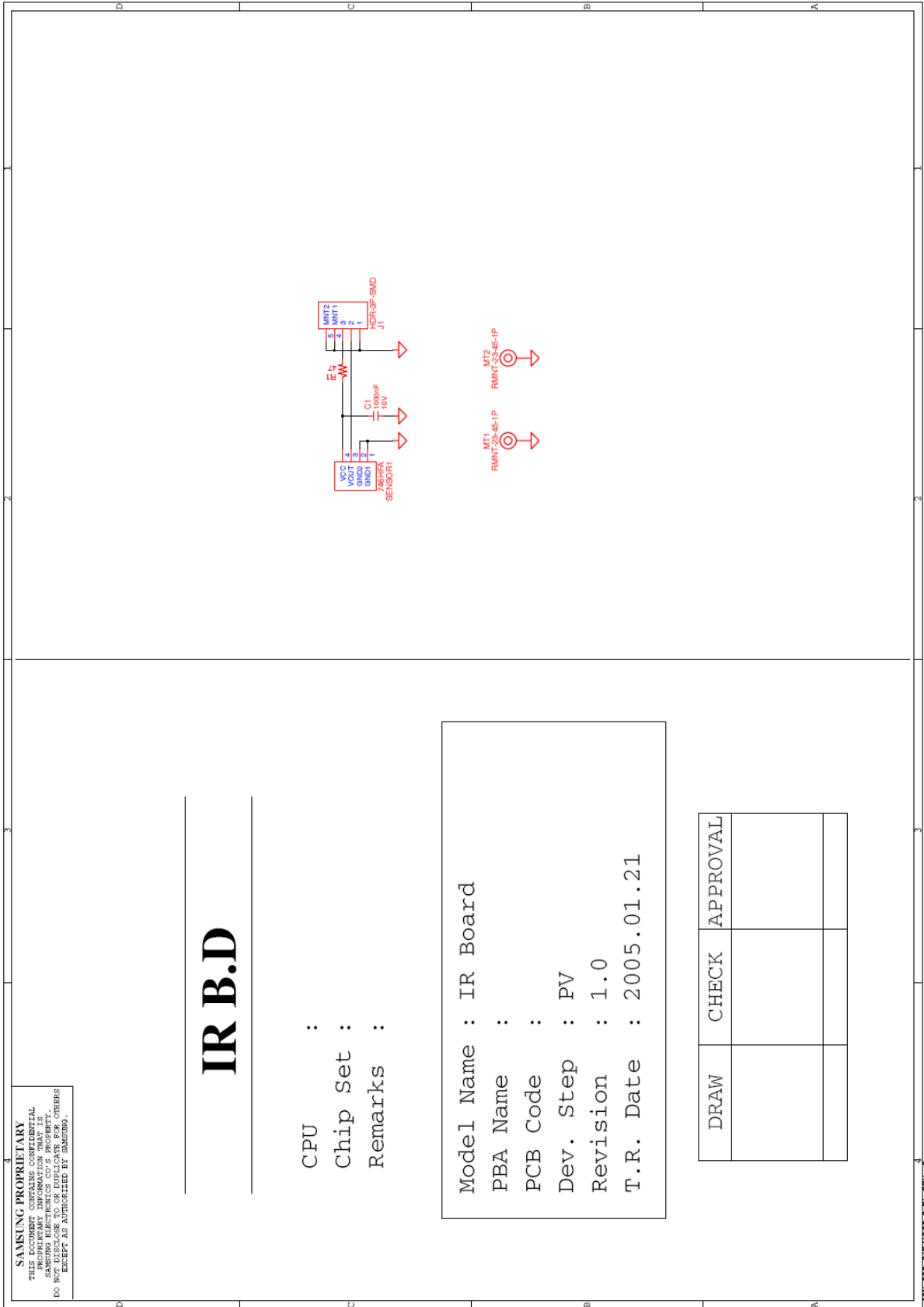
TV antenna connector

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APPROV	SJ PARK	1.0	TV ANTENNA BD	BA59-XXXXXX
TABLE CODE			August 23, 2005 2:10:12 PM	PAGE 6 OF 6

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7. 회로도

7) IR Board



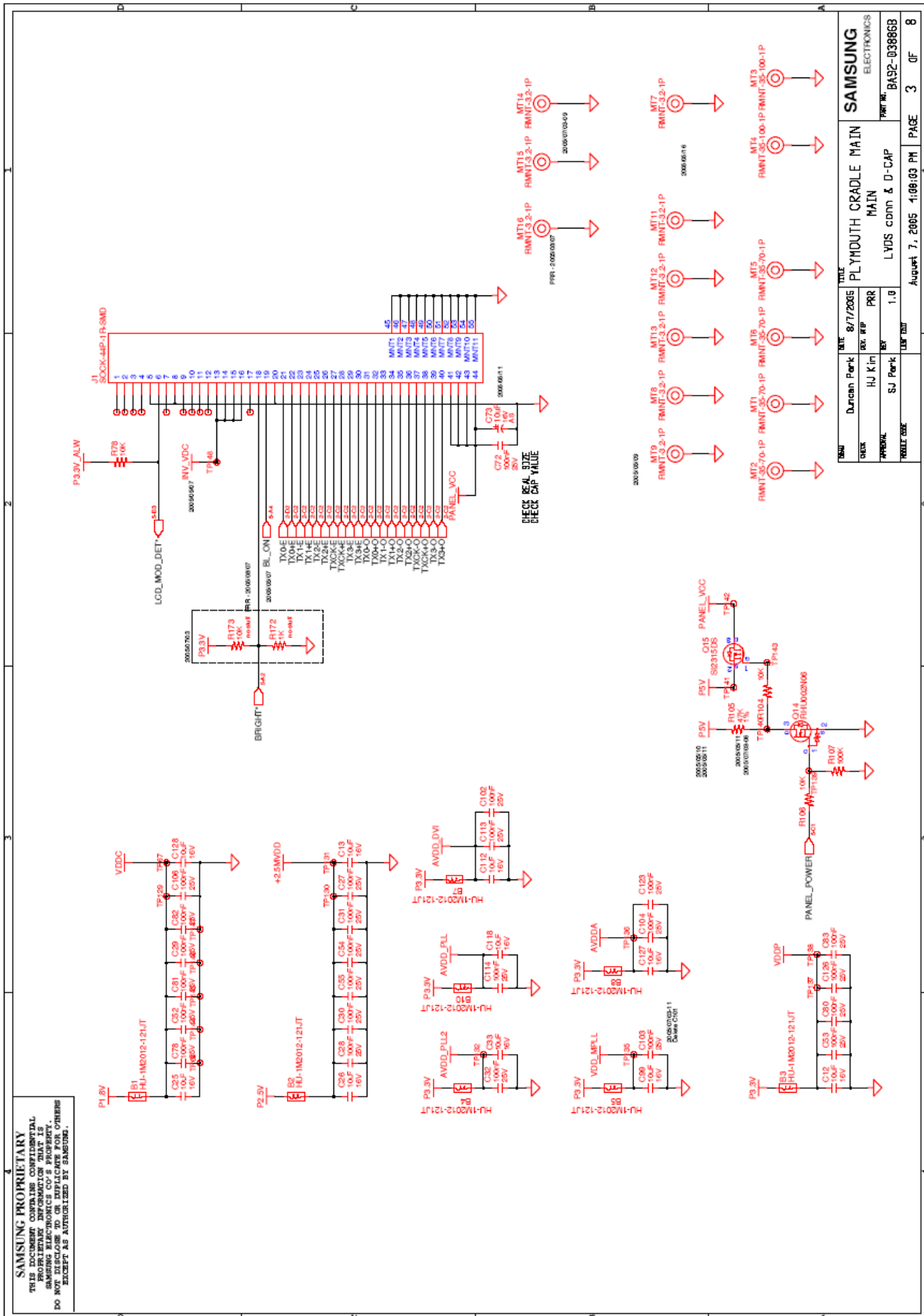
COM-22C-015 (US&S 6.5) REV. 3

7. 회로도

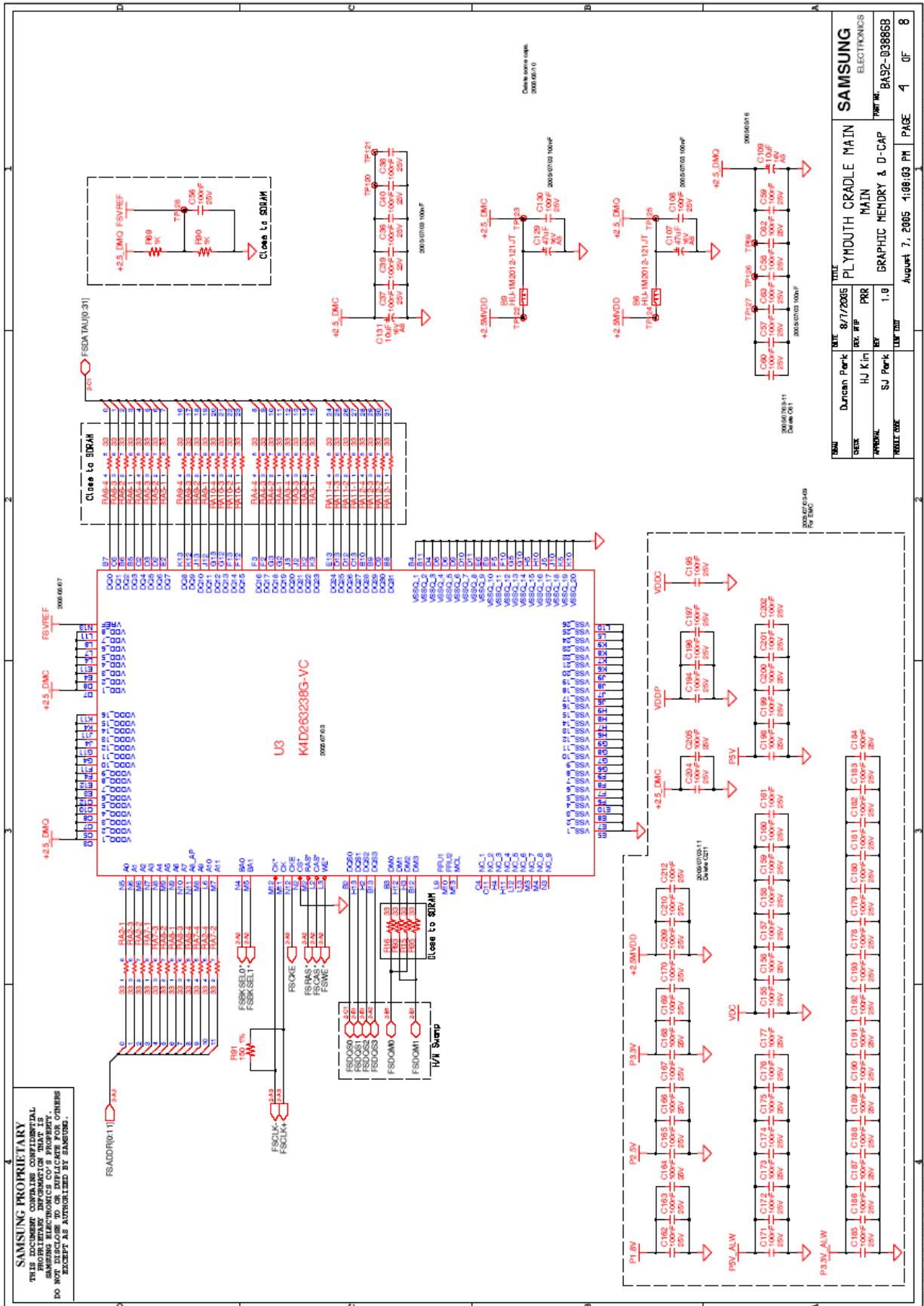
8) Cradle Main Board

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CHECKER	HJ Kim	REV. #	PRR	MAIN COVER																						
APPROVAL	SJ Park	REV.	1.0																							
TABLE USE		DATE	August 7, 2005 1:08:03 PM	PAGE	1 OF 8																					
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DRAW	CHECK	APPROVAL																								
Duncan Park	HJ KIM	SJ Park																								

7. 회로도



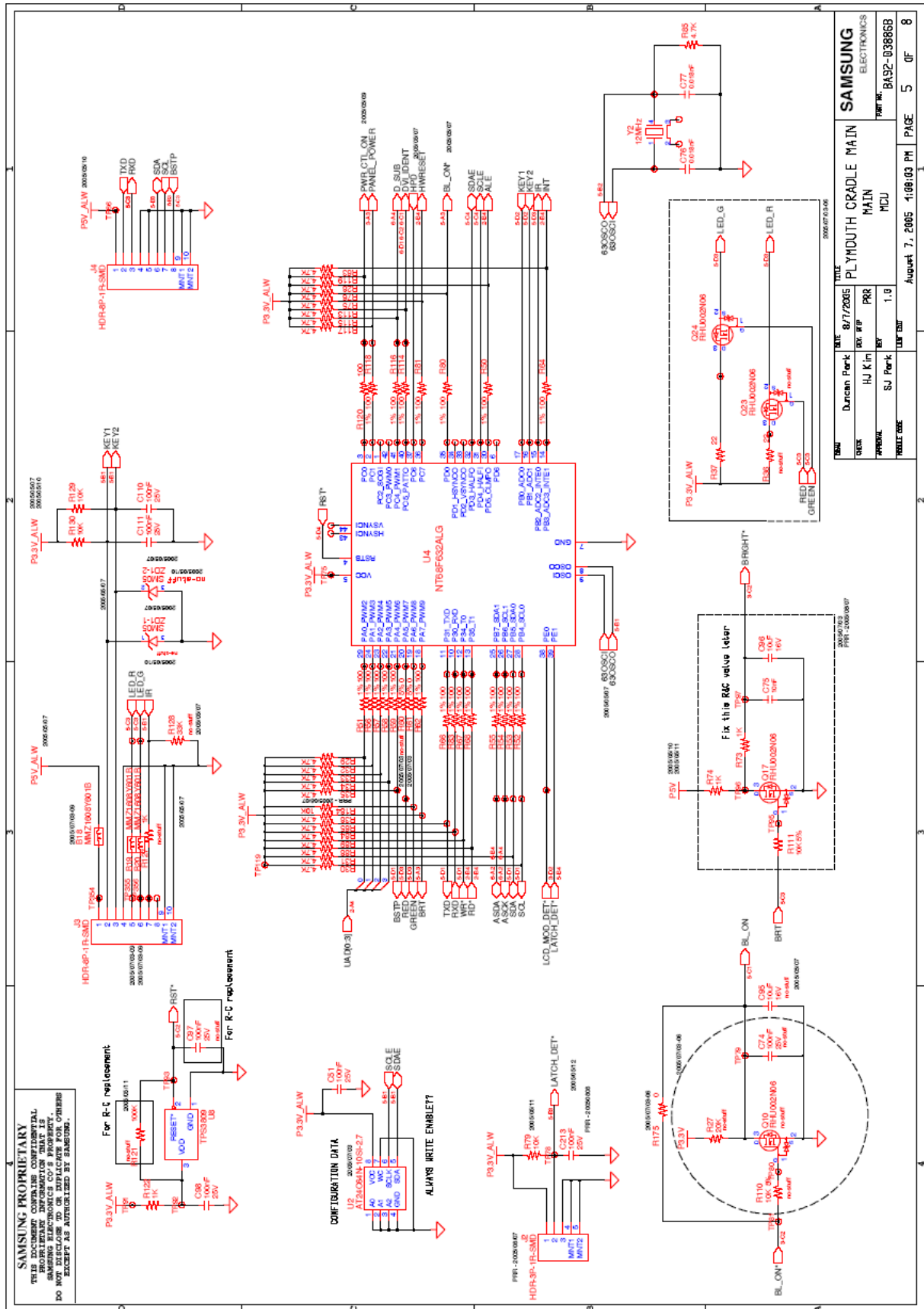
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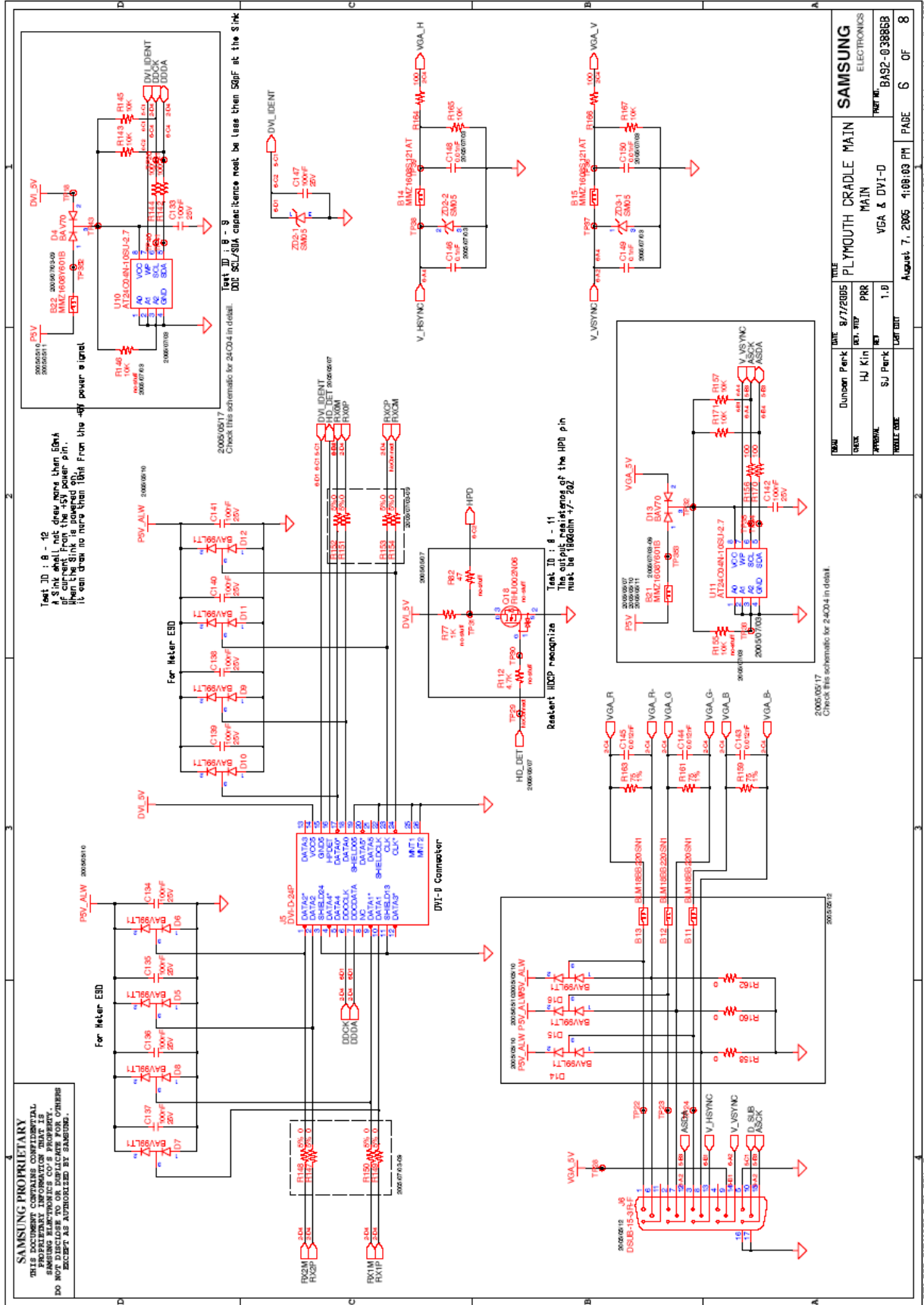


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002	08/11/2005	SJ Park	REV	1.0
003	08/11/2005	WJ Kim	APP	August 7, 2005 4:08:03 PM

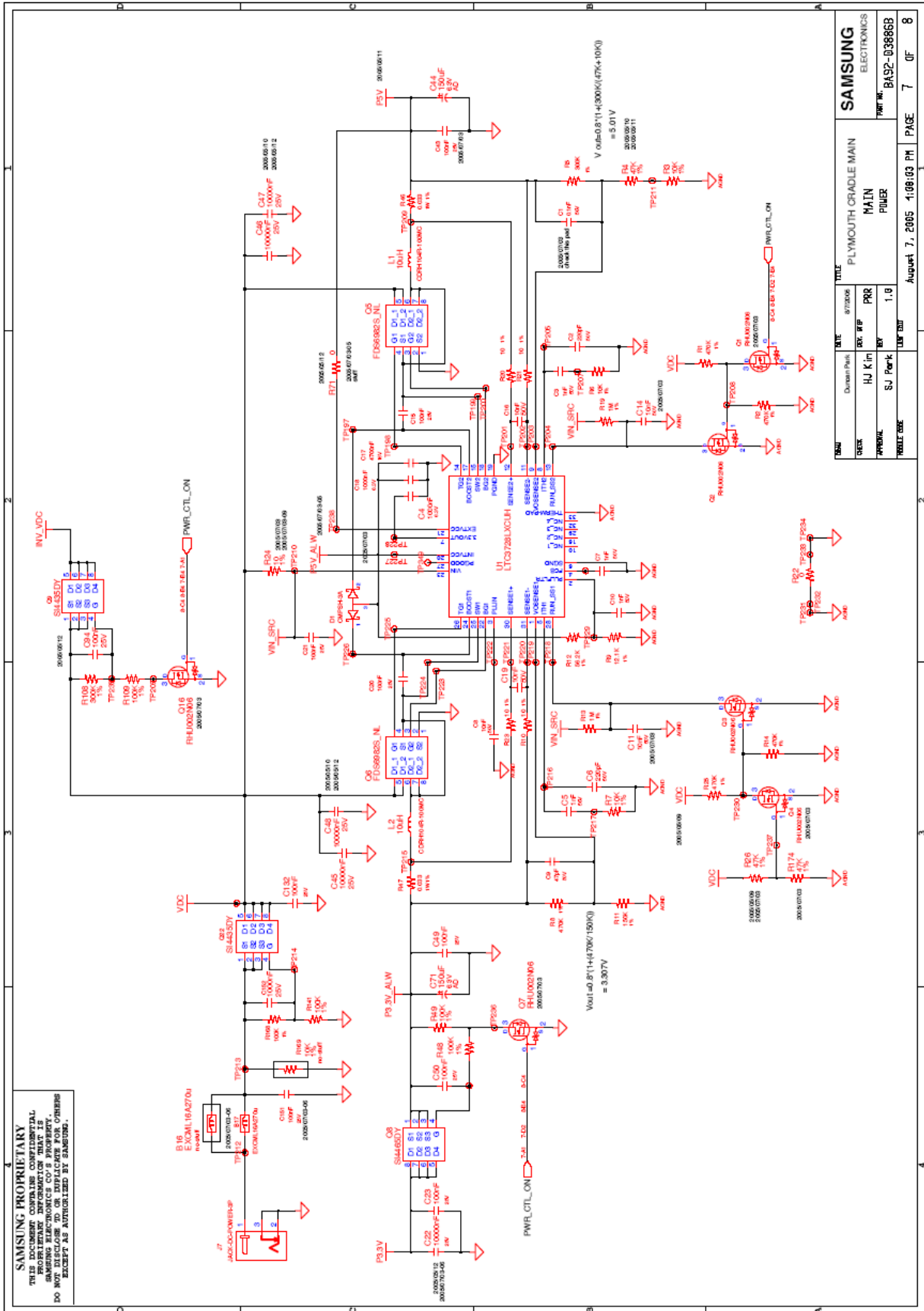
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7. 회로도

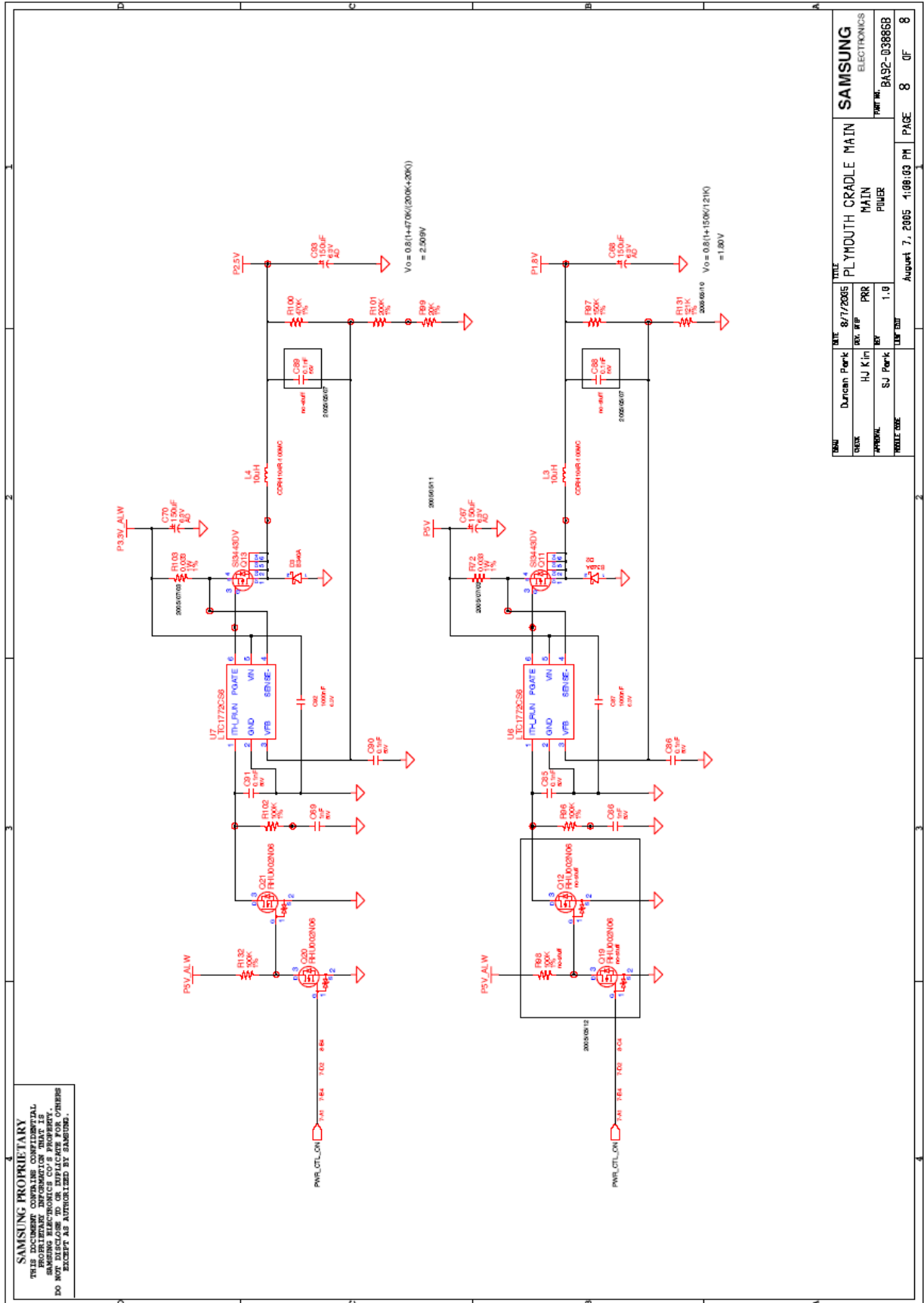




7. 회로도



7. 회로도



DATE	8/7/2005	FILE	PLYMOUTH CRADLE MAIN	SAMSUNG
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APPROVAL	SJ Park	REV	POWER	
MODEL CODE		REV	1.0	PART NO. BAS2-03886B
		DATE	August 7, 2005 4:08:03 PM	PAGE 8 OF 8

COM-22C-915(1996.6.5) REV. 3

7. 회로도

9) Cradle Switch Board

