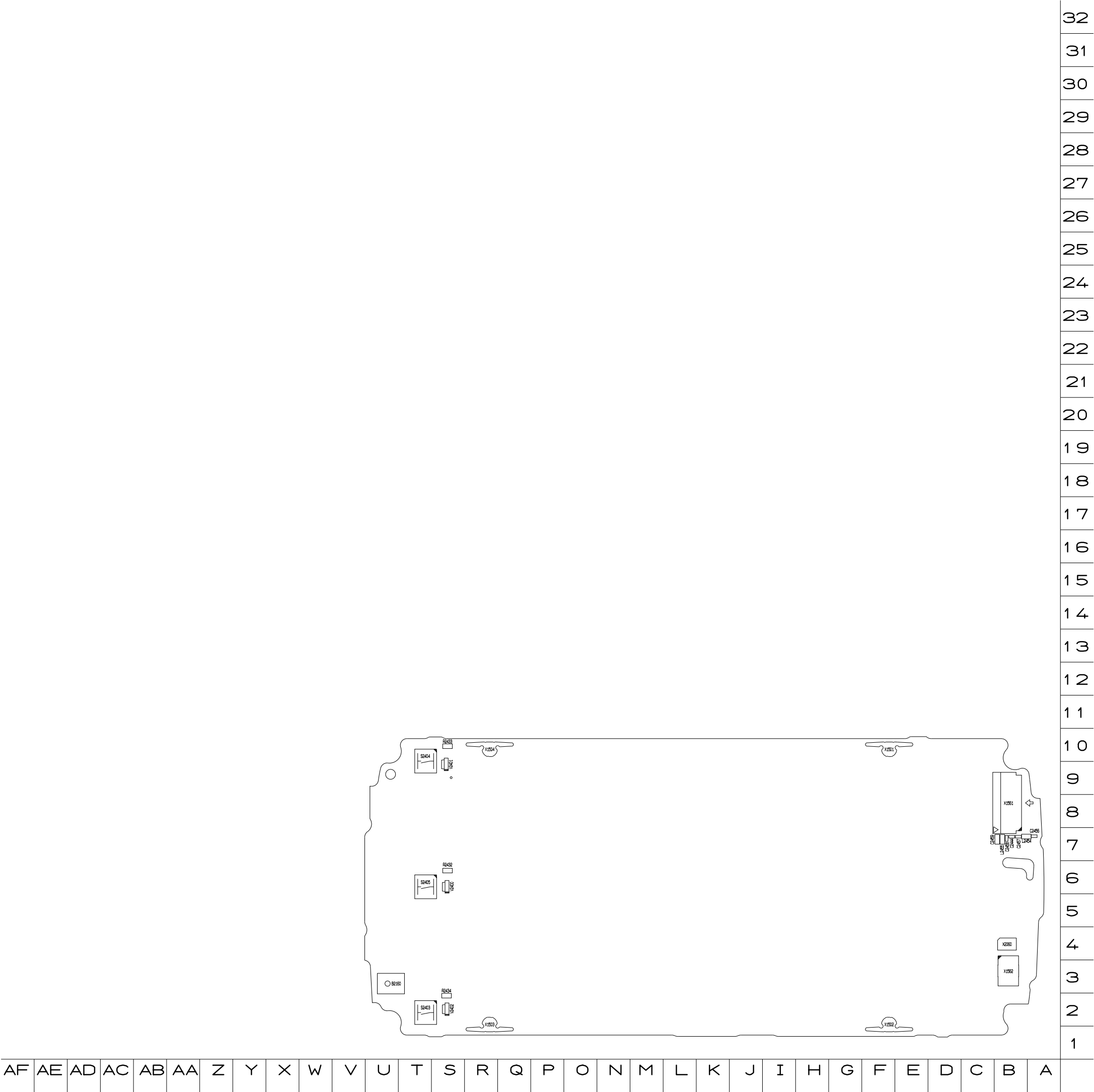
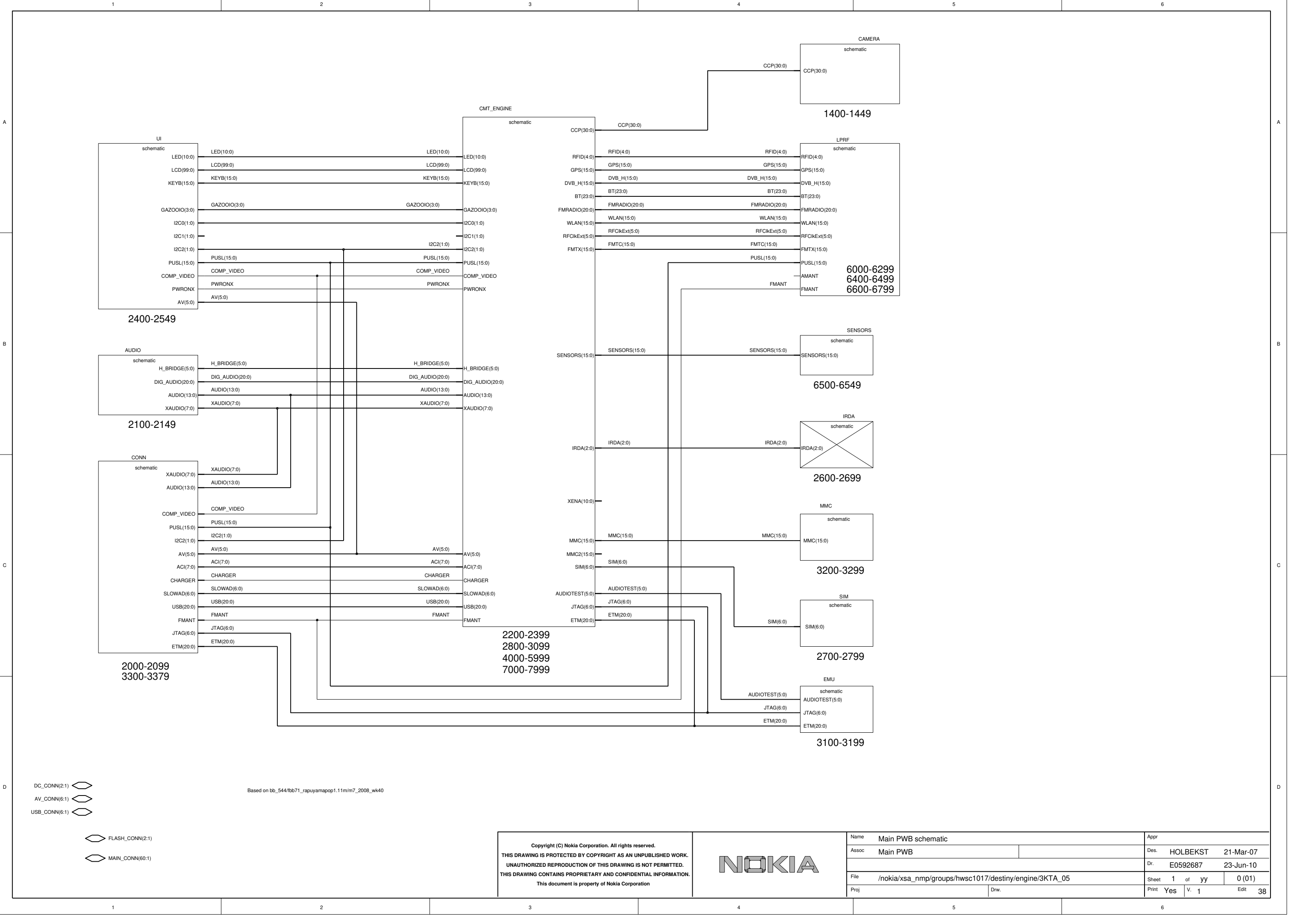






D

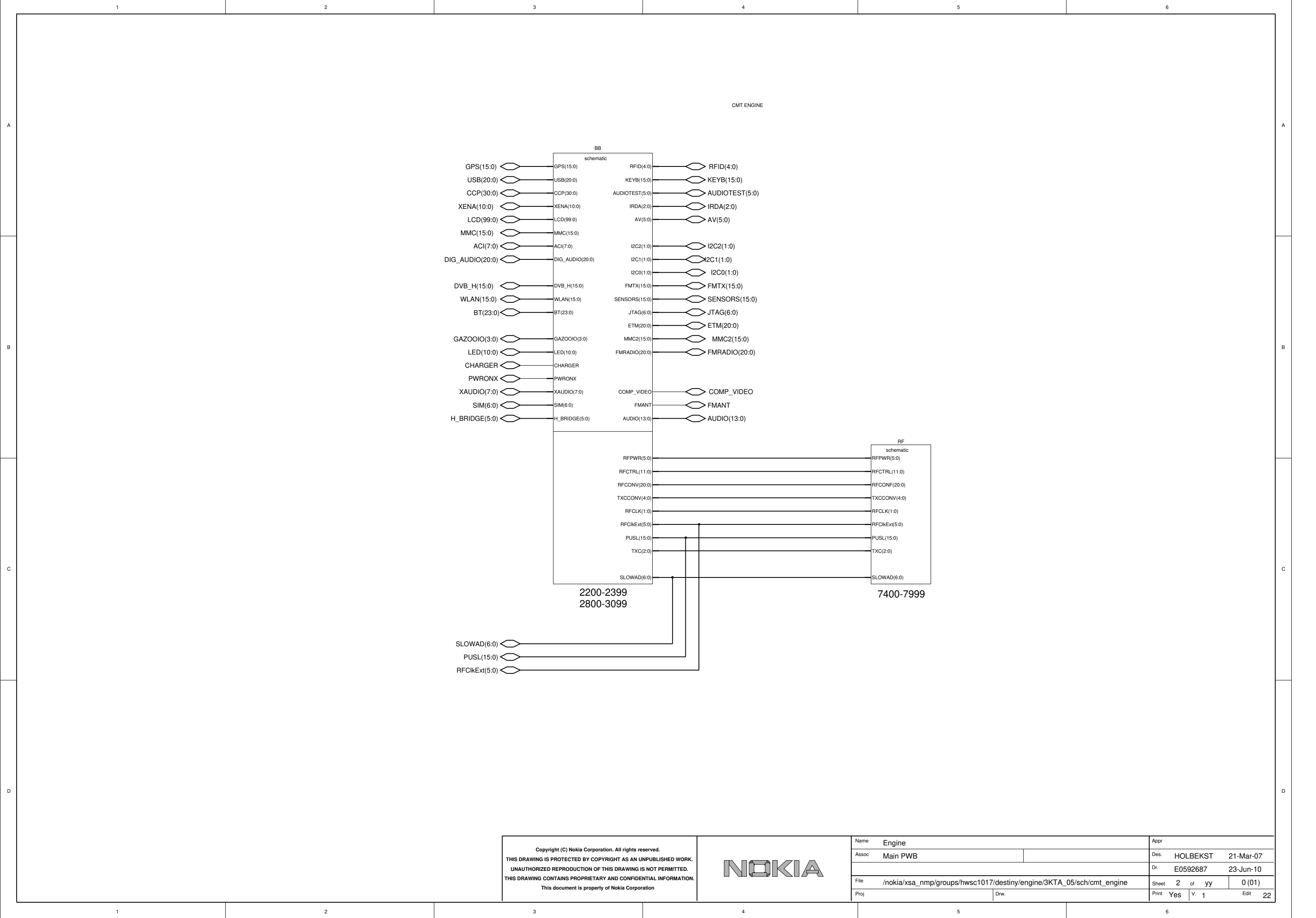
- DC_CONN(2:1)
- AV_CONN(6:1)
- USB_CONN(6:1)
- FLASH_CONN(2:1)
- MAIN_CONN(60:1)

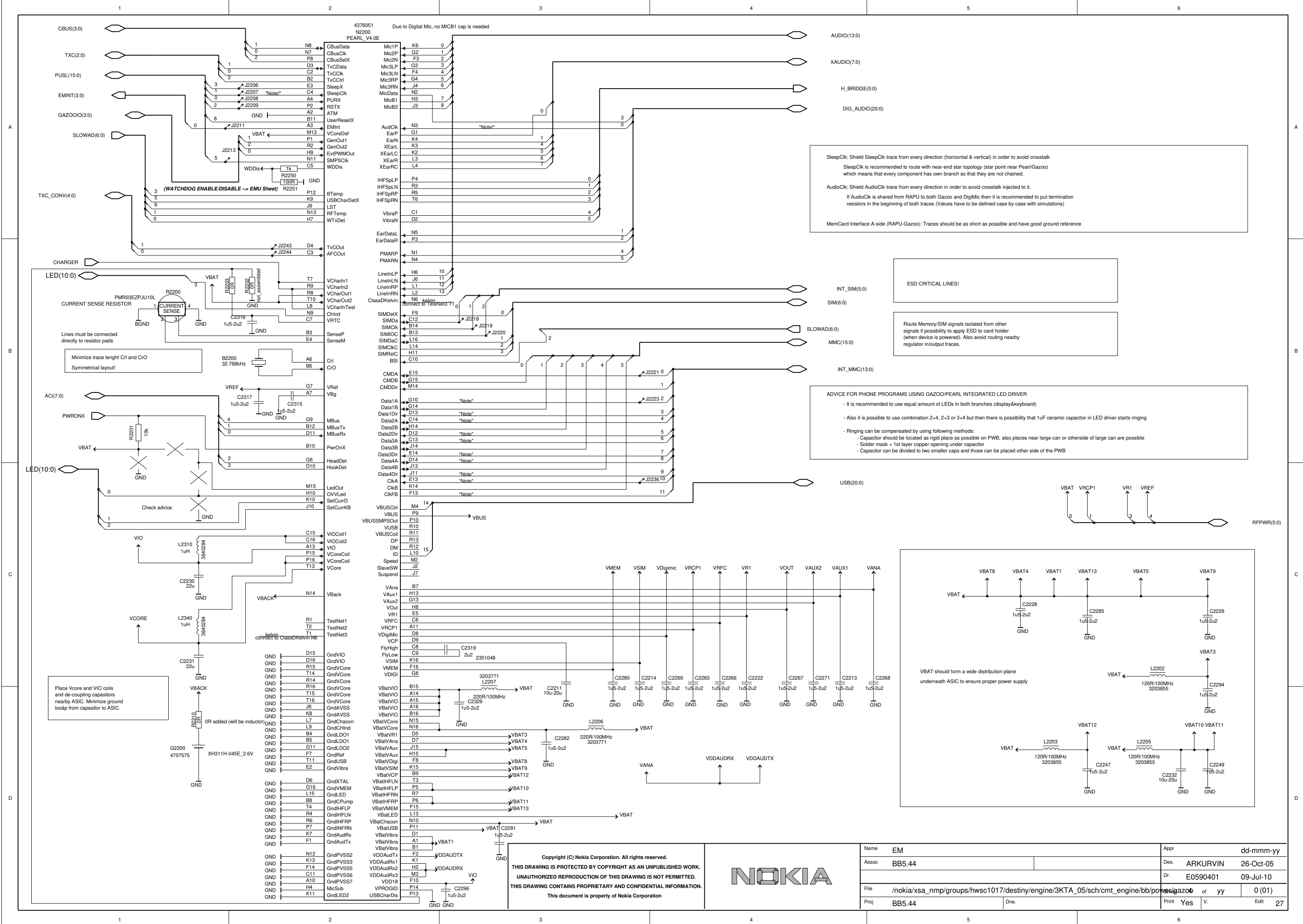
Based on bb_544/tbb71_rapuyamapop1.11m/m7_2008_wk40

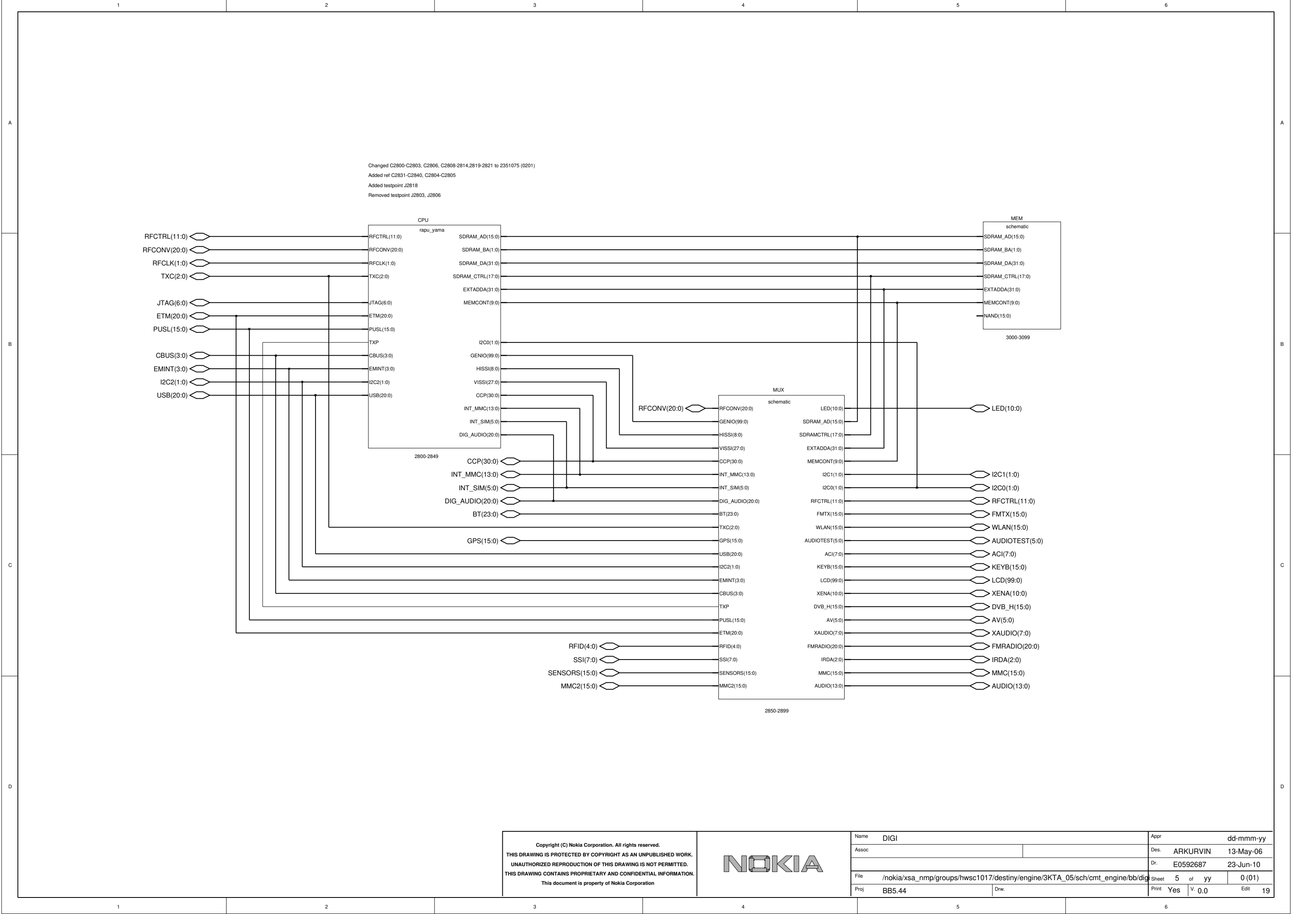
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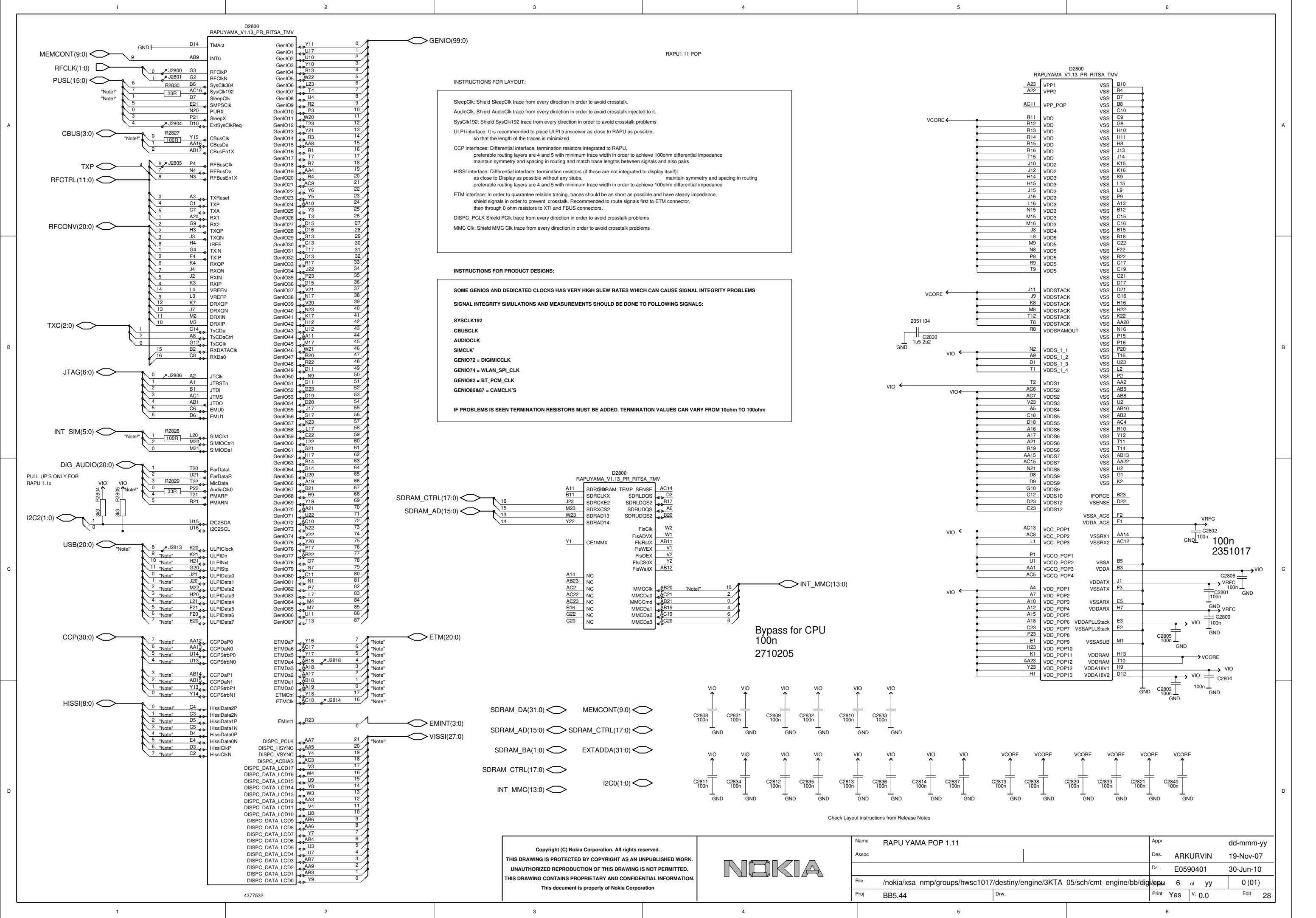


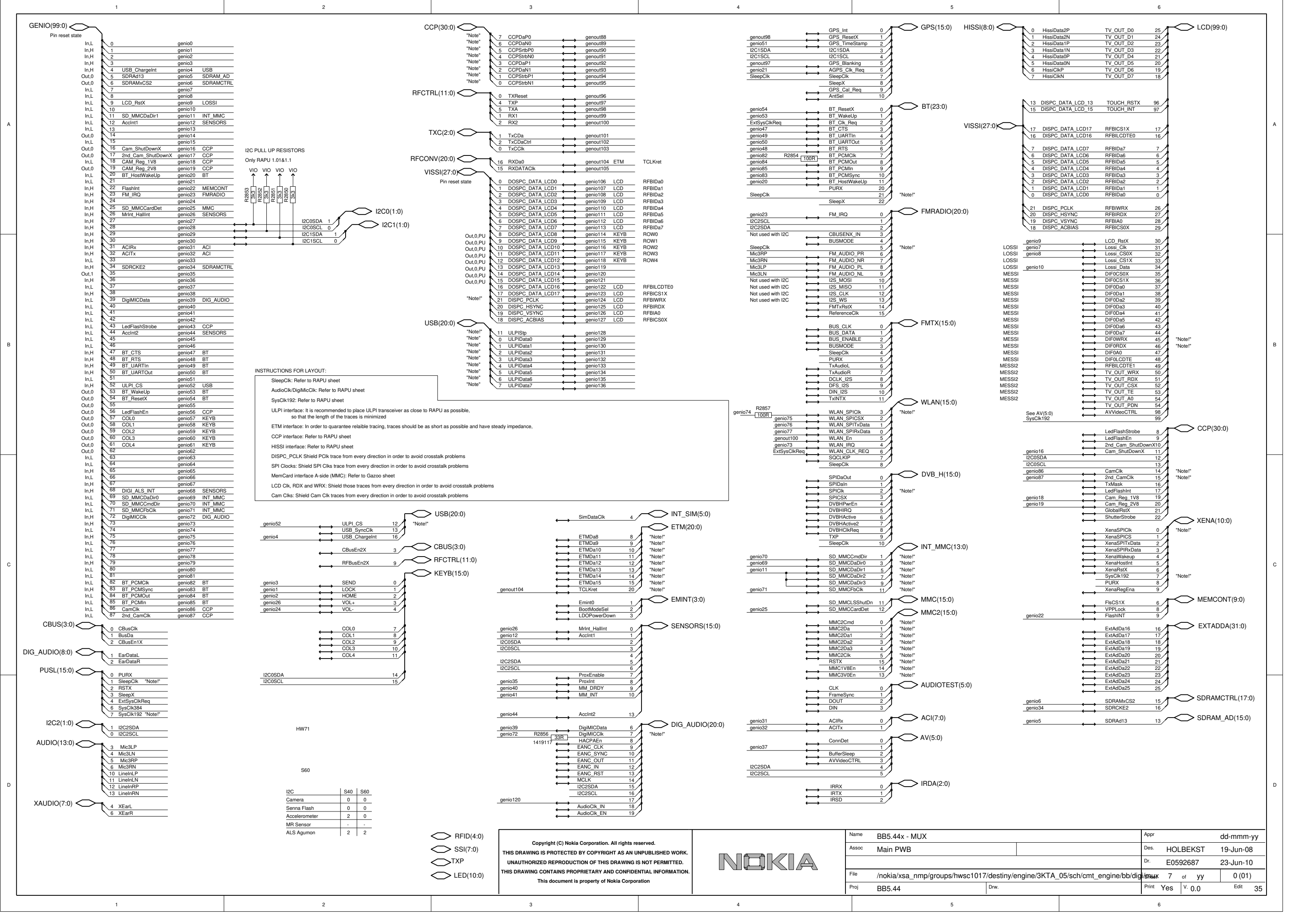
Name	Main PWB schematic			Appr			
Assoc	Main PWB			Des.	HOLBEKST	21-Mar-07	
				Dr.	E0592687	23-Jun-10	
File	/nokia/xsa_nmp/groups/hwsc1017/destiny/engine/3KTA_05			Sheet	1	of yy	0 (01)
Proj				Print	Yes	v. 1	Edit 38











A

B

C

D

NAND(15:0)

SDRAM_AD(15:0)

SDRAM_CTRL(17:0)

SDRAM_DA(31:0)

SDRAM_BA(1:0)

MEMCONT(9:0)

EXTADDA(31:0)

NAND(15:0)

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SDRAM_AD(15:0)

SDRAM_CTRL(17:0)

SDRAM_DA(31:0)

SDRAM_BA(1:0)

MEMCONT(9:0)

EXTADDA(31:0)

NAND(15:0)

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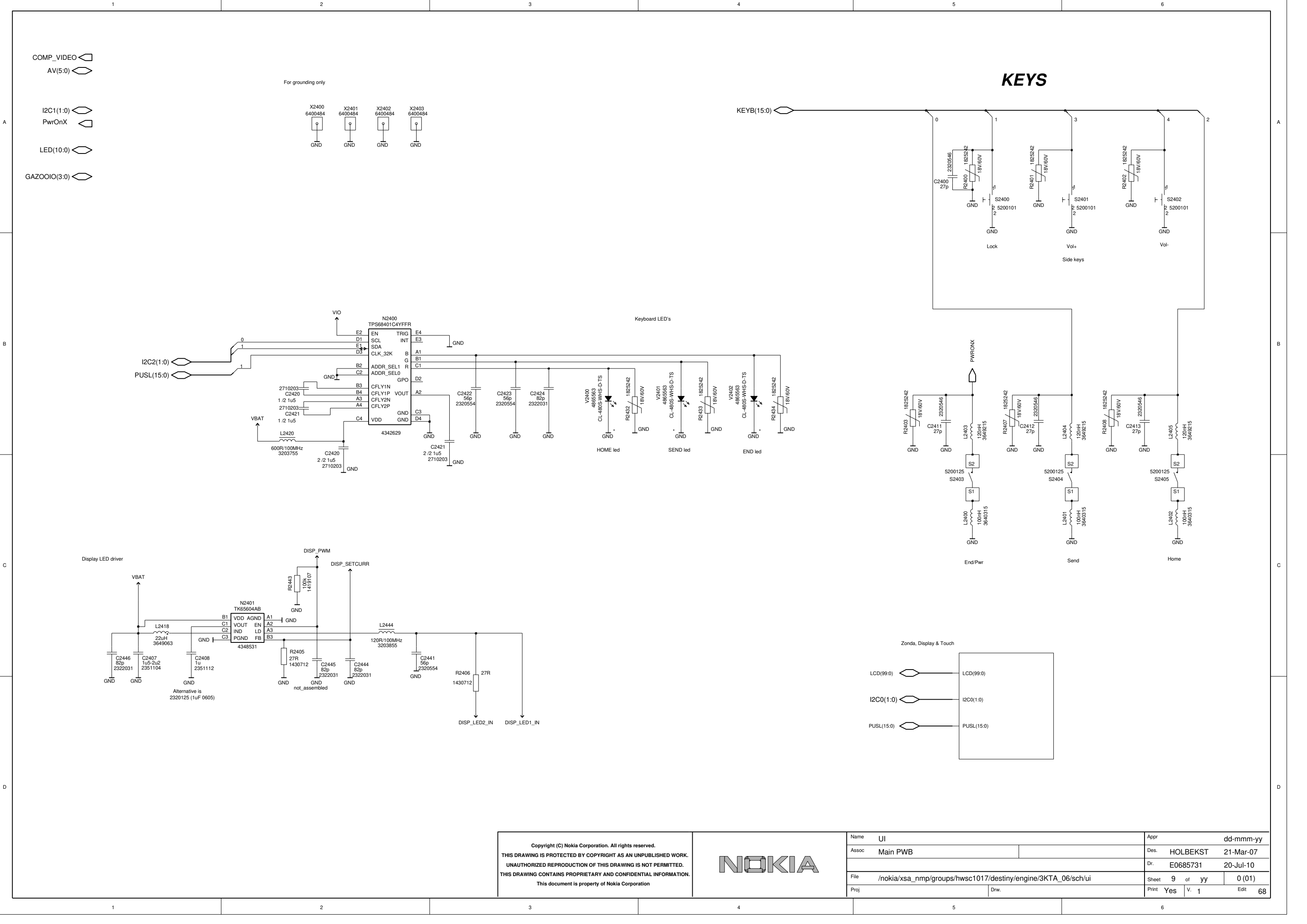
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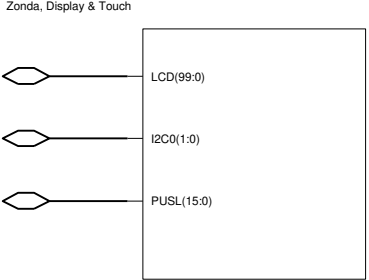
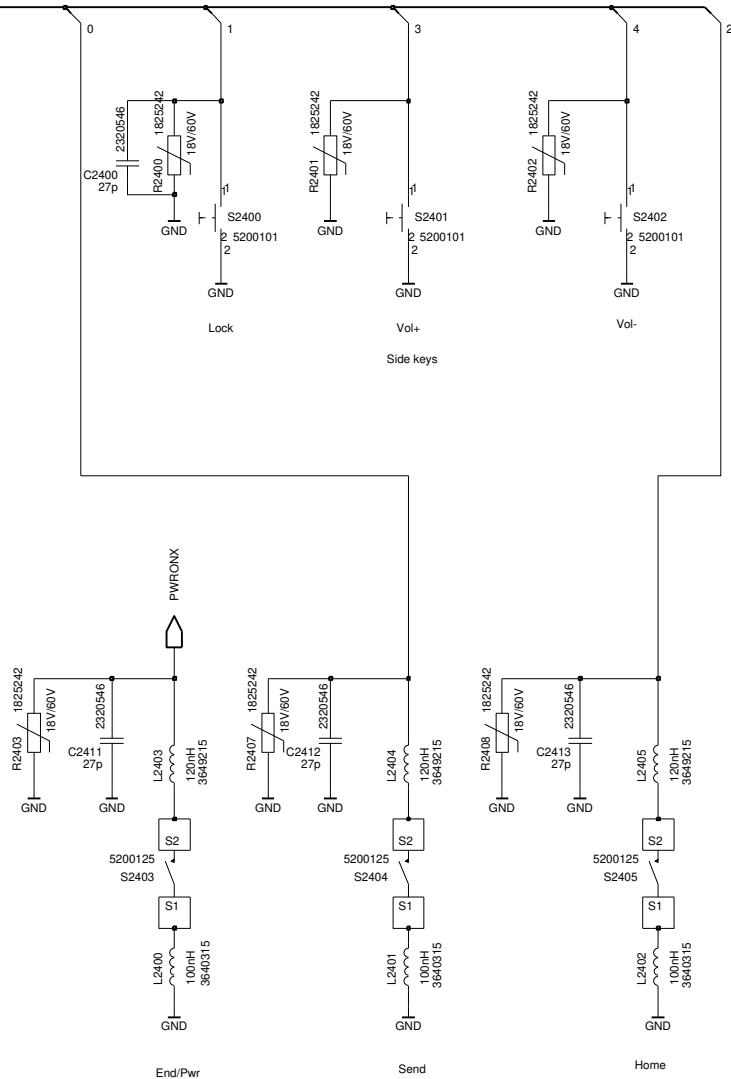
Name	MEMORY 1Gb NAND+512 DDR POP4			Appr	dd-mmm-yy		
Assoc				Des.	ARKURVIN	12-Jun-07	
				Dr.	E0592687	23-Jun-10	
File	/nokia/xsa_nmp/groups/hwsc1017/destiny/engine/3KTA_05/sch/cmt_engine/bb/digipart					Item	8 of yy 0 (01)
Proj	BB5.44			Drw.			
				Print	Yes	V. 0.0	Edit 19

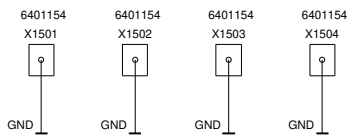
D3000
K5W2G1GACP-AL60
COMBO 32Mx32 DDR
128Mx16 M3
43471C0|NONET

43470D7 (or 43470S2) Samsung to be used only for first Build
43471C0 Samsung to be used for B2 onwards and for MRE BOM
4347xxx Toshiba to be qualified also for RU

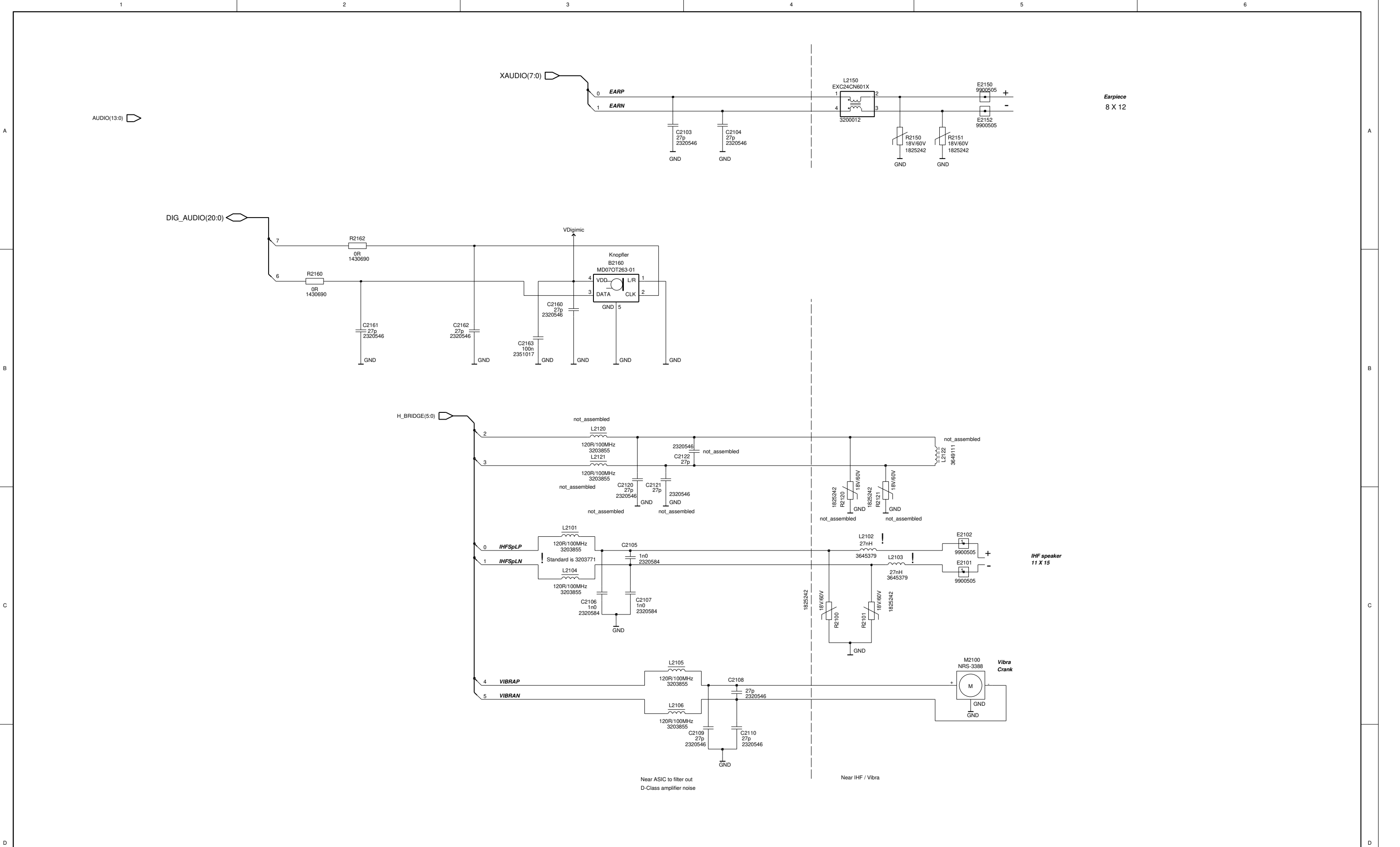


KEYS





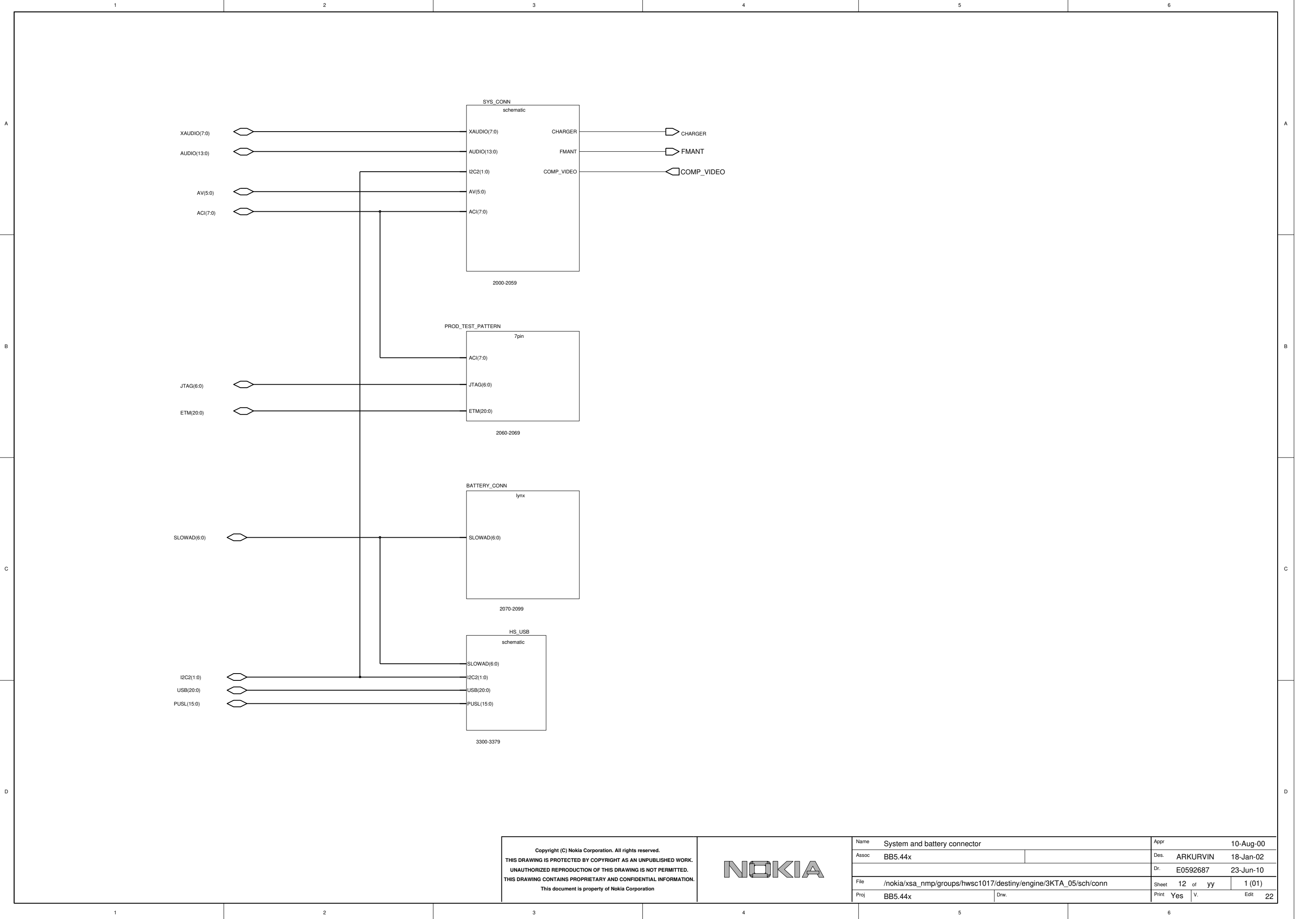
Name	nHD Display + Zonda		Appr	dd-mmm-yy	
Assoc	Destiny		Des.	MMe	21-Jan-10
			Dr.	E0590401	01-Jul-10
File	/nokia/xsa_nmp/groups/hwsc1017/destiny/engine/3KTA_05/sch/display				
Proj	Destiny	Drw.	Sheet	10 of yy	0 (01)
			Print	Yes	V. 0.0 Edit 61

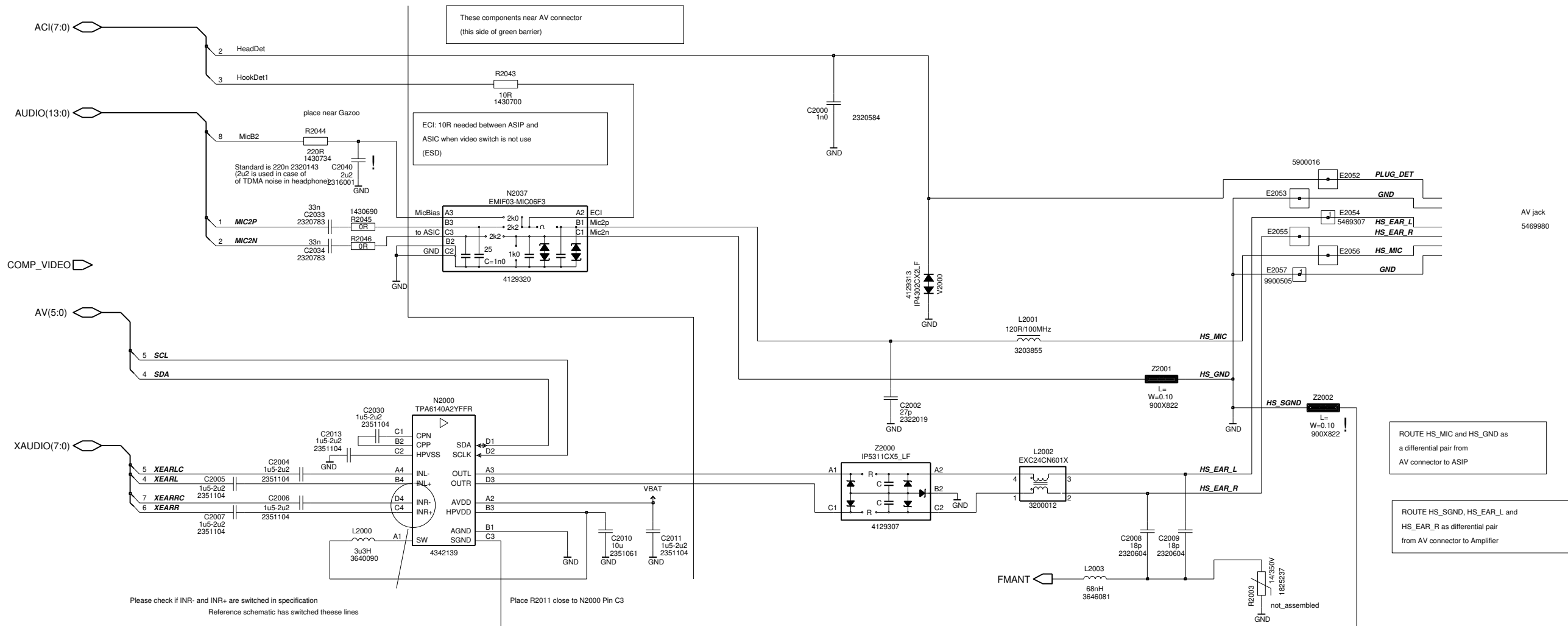
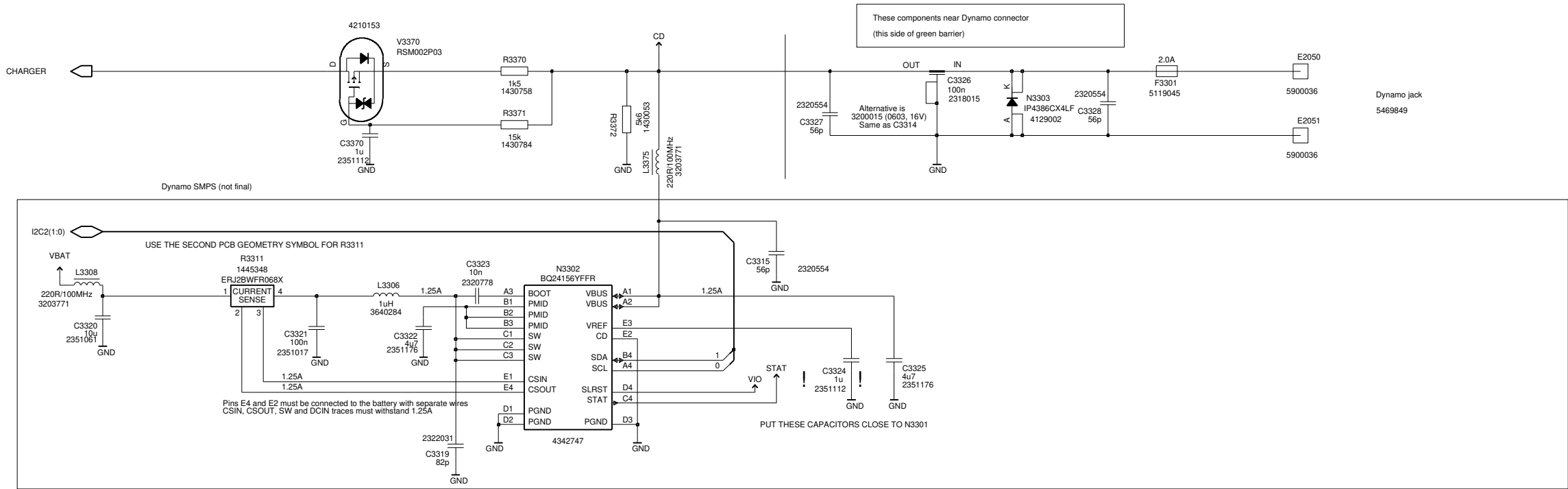


! = Project specific

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Name	Audio		Appr	dd-mmm-yy	
Assoc	Main PWB		Des.	HOLBEKST 21-Mar-07	
			Dr.	E0590401 09-Jul-10	
File	/nokia/xsa_nmp/groups/hwsc1017/destiny/engine/3KTA_05/sch/audio		Sheet	11 of yy	1 (01)
Proj	Drw.		Print	Yes v. 1	Edit 50





! = Project specific

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NOKIA

Name	AV connector	Appr	dd-mmm-yy
Assoc	Main PWB	Des.	HOLBEKST 21-Mar-07
		Dr.	E0590401 30-Jun-10
File	/nokia/xsa_nmp/groups/hwsc1017/destiny/engine/3KTA_05/sch/sys_conn	Sheet	13 of yy 0 (01)
Proj		Print	Yes v. 1 Edit 61

! = Project specific

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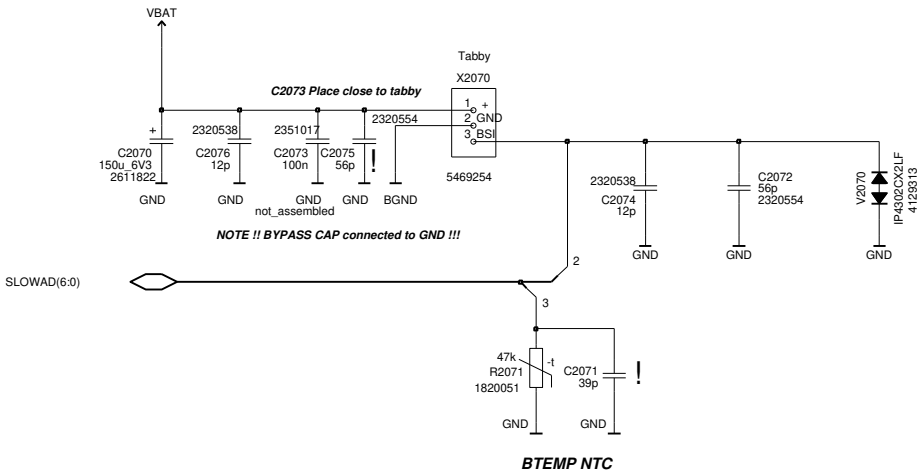
Name		Production test pad		Appr		10-Aug-00	
Assoc		Main PWB		Des.		HOLBEKST 21-Mar-07	
				Dr.		E0592687 23-Jun-10	
File		/nokia/xsa_nmp/groups/hwsc1017/destiny/engine/3KTA_05/sch/prod_test_pattern		Sheet		14 of yy	1 (01)
Proj		Drw.		Print		Yes	V. 1 Edit 22

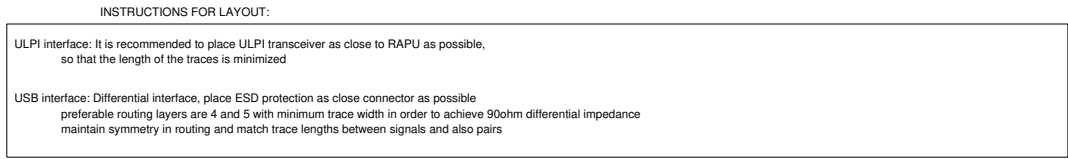
! = Project specific

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Name	Battery Connector		Appr	10-Aug-00	
Assoc	Main PWB	BUILD	Des.	HOLBEKST	21-Mar-07
			Dr.	E0590401	09-Jul-10
File	/nokia/xsa_nmp/groups/hwsc1017/destiny/engine/3KTA_05/sch/battery_conn			Sheet 15 of yy	1 (01)
Proj		Drw.		Print Yes	v. 1 Edit



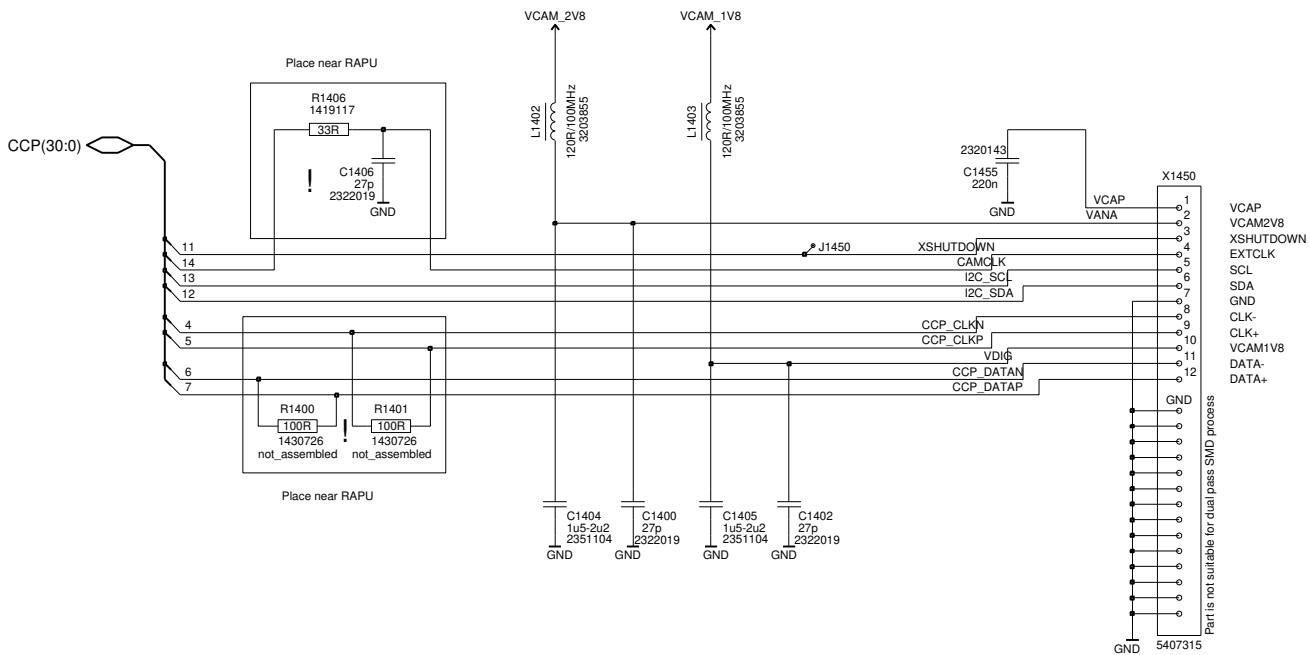


The diagram shows a central component labeled "CHARGER SHIELD 040-090204". It has four pins on its left side connected to a common rail labeled "A3301". It has two pins on its bottom side connected to a common rail labeled "GND". It has two pins on its right side connected to a common rail labeled "9501846".



Name	HS USB		Appr	dd-mmm-yy	
Assoc	Main PWB		Des.	HOLBEKST	21-Mar-07
			Dr.	E0590401	01-Jul-10
File	/nokia/xsa_nmp/groups/hwsc1017/destiny/engine/3KTA_05/sch/hs_usb			Sheet 16 of yy	(0/01)
Proj		Drw.	Print	Yes	v. 1 Edit 44

5 MPIX SMIA65 CAMERA

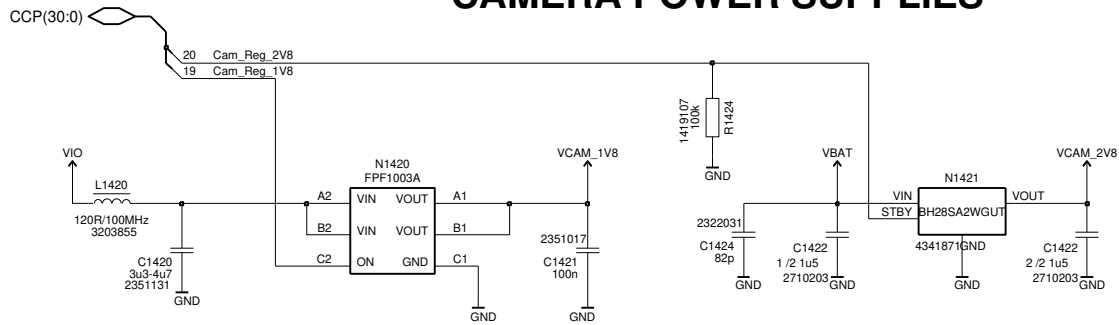


INSTRUCTIONS FOR LAYOUT:

CCP interfaces: Differential interface, termination resistors as close to RAPU as possible without any stubs, preferable routing layers are 4 and 5 with minimum trace width in order to achieve 100ohm differential impedance maintain symmetry in routing and match trace lengths between signals and also pairs

Cam Clks: Shield Cam Clk traces from every direction in order to avoid crosstalk problems

CAMERA POWER SUPPLIES

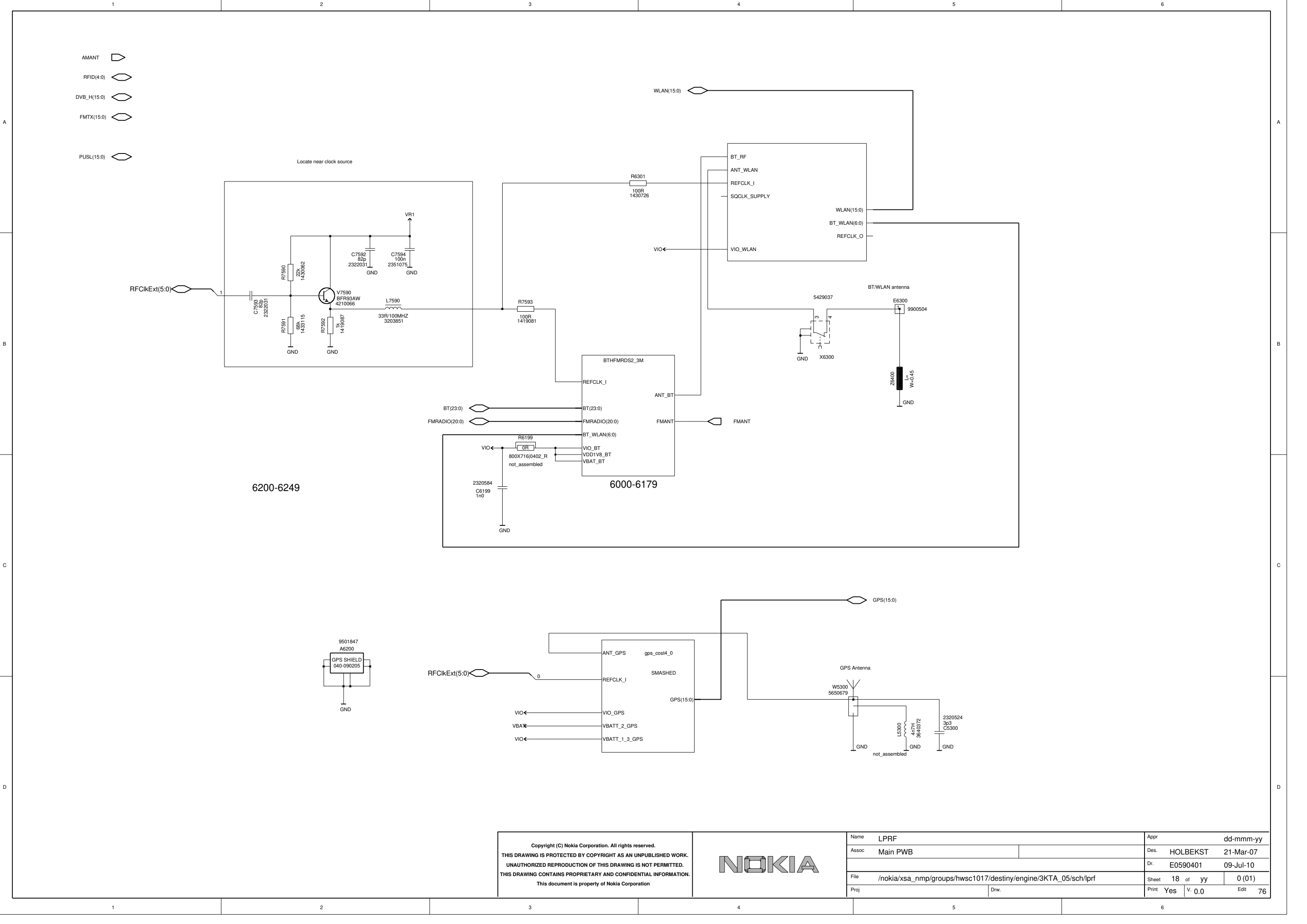


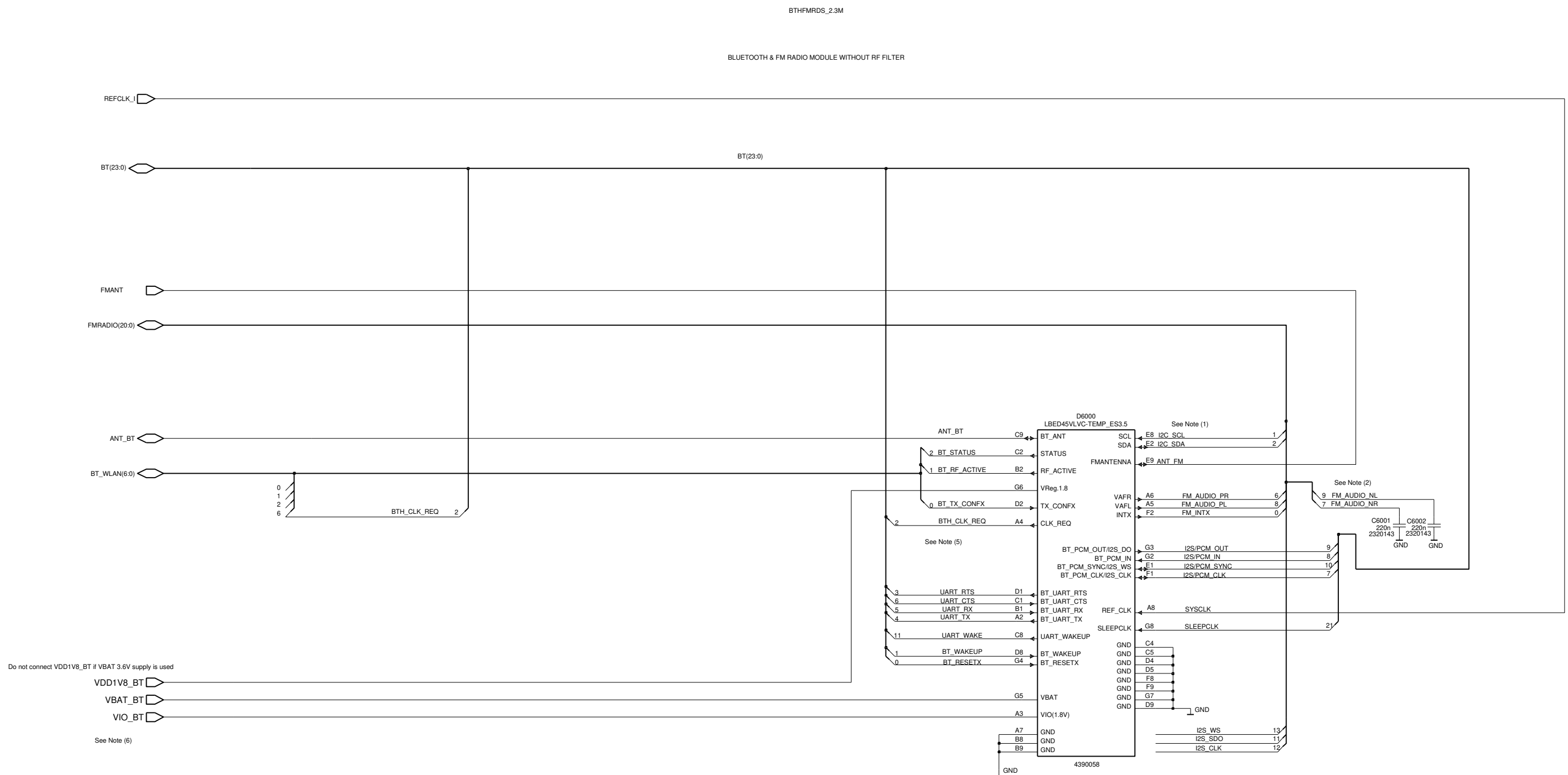
! = Project specific

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NOKIA

Name	Camera	Appr	dd-mm-yy
Assoc	Main PWB	Des.	HOLBEKST 21-Mar-07
		Dr.	E0590401 30-Jun-10
File	/nokia/xsa_nmp/groups/hwsc1017/destiny/engine/3KTA_05/sch/camera	Sheet	17 of yy 0 (01)
Proj	Drw.	Print	Yes v. 1 Edit 50

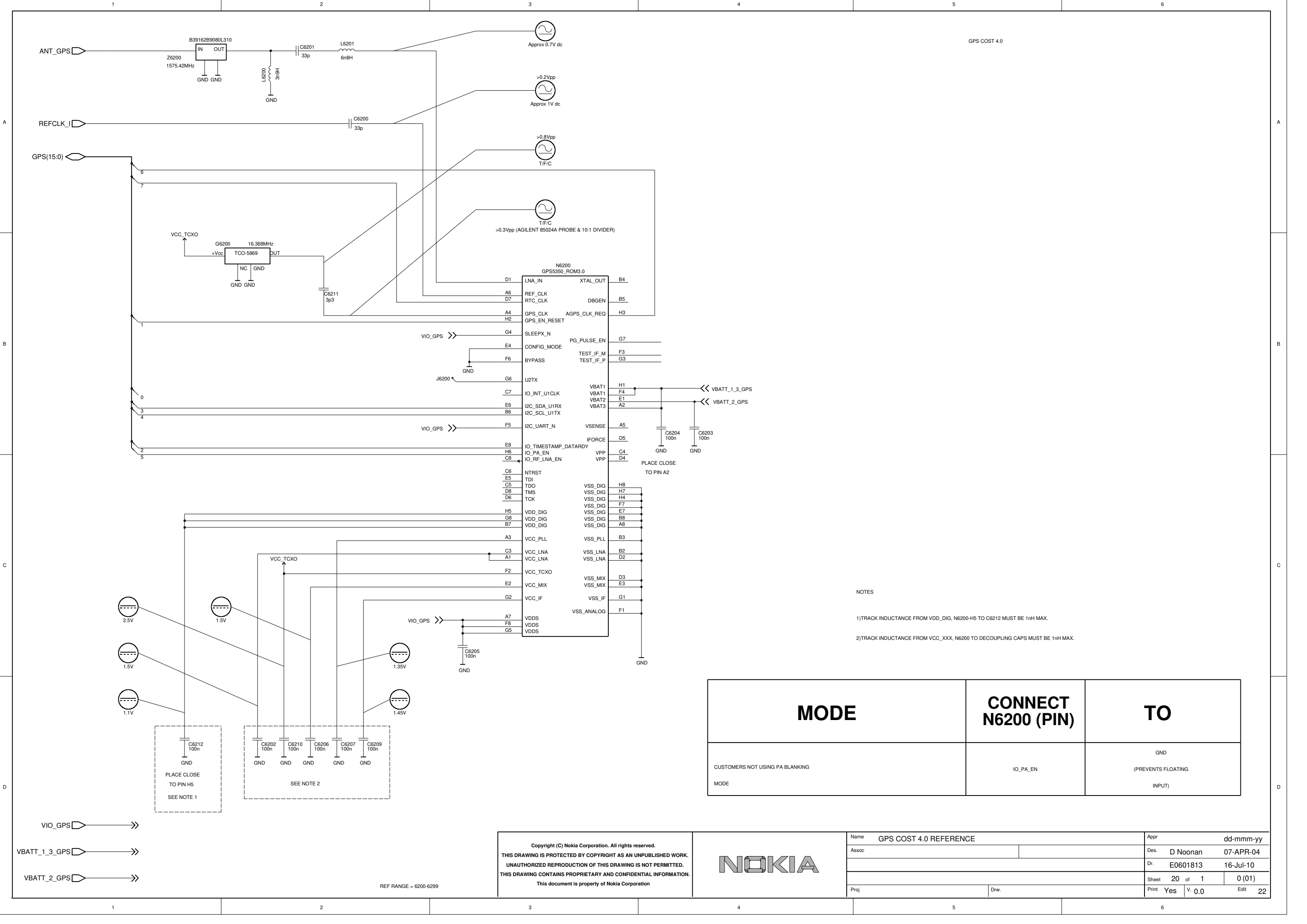




Notes

- (1) 3k3 Pull-up Resistors are required on I2C_SCL, I2C_SDA.
- (2) C6001 and C6002 should be placed in the Bluetooth area, so that the differential audio lines to Retu ASIC are equal length.
- (3) D6000 BTHFMRDS2.2M_WLAN module includes an internal dc blocking capacitor between BT_ANT (pin 15) and ASIC BT_ANT RF terminal.
- (4) Additional components for phone wing boards are given in BTHFMRDS2.1_TEST release
- (5) Pull-down is required on BTH_CLK_REQ signal (see release note)
- (6) For 3.6V supply voltage connect VBAT_BT input to VBAT 3.6V supply, VDD1V8_BT input must be Not Connected

For 1.8V supply voltage connect VDD1V8_BT and VBAT_BT inputs to 1.8V supply



NOTES

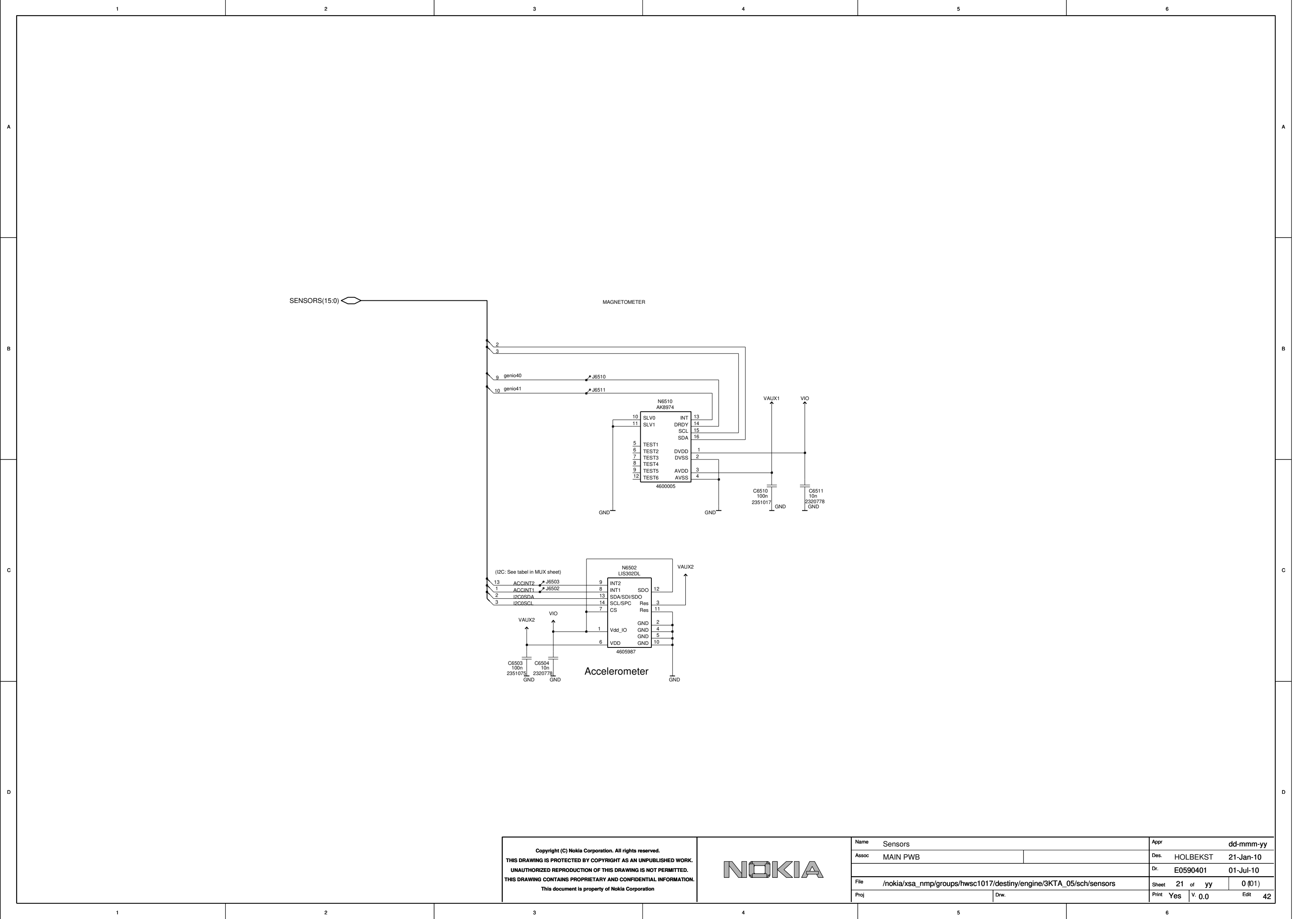
- 1) TRACK INDUCTANCE FROM VDD_DIG, N6200-H5 TO C6212 MUST BE 1nH MAX.
2) TRACK INDUCTANCE FROM VCC_XXX, N6200 TO DECOUPLING CAPS MUST BE 1nH MAX.

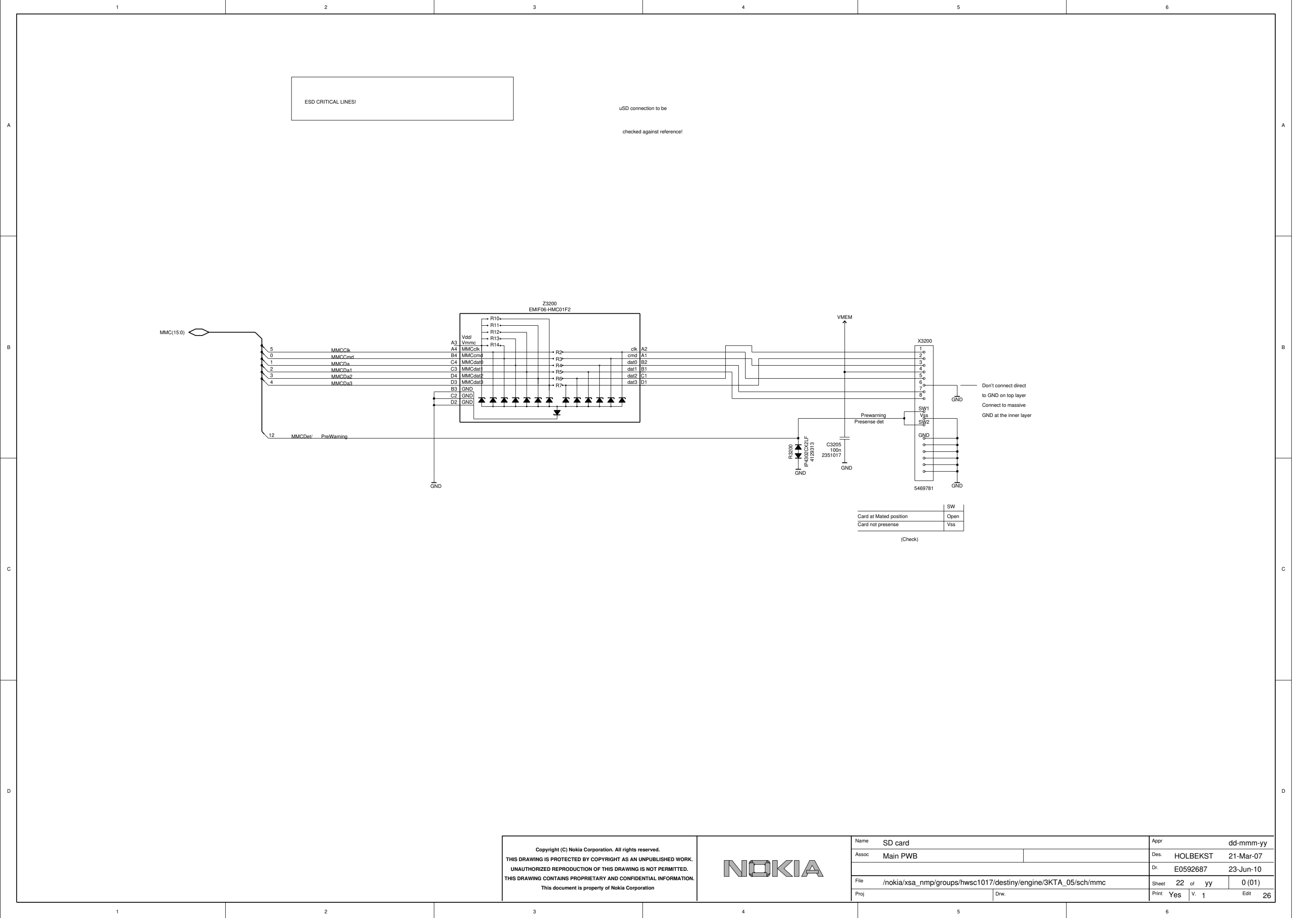
MODE	CONNECT N6200 (PIN)	TO
CUSTOMERS NOT USING PA BLANKING	IO_PA_EN	GND (PREVENTS FLOATING INPUT)
MODE		

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Name	GPS COST 4.0 REFERENCE		Appr	dd-mmm-yy	
Assoc			Des.	D Noonan 07-APR-04	
			Dr.	E0601813 16-Jul-10	
			Sheet	20 of 1	0 (01)
Proj			Print	Yes	
			V.	0.0	Edit 22





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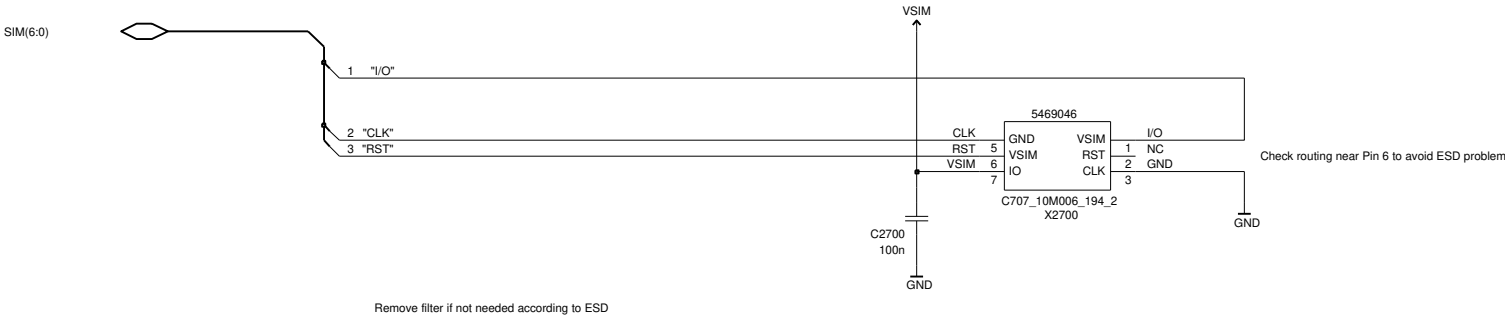
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NOKIA

Name	SD card		Appr	dd-mm-yy	
Assoc	Main PWB		Des.	HOLBEKST	21-Mar-07
			Dr.	E0592687	23-Jun-10
File	/nokia/xsa_nmp/groups/hwsc1017/destiny/engine/3KTA_05/sch/mmc			Sheet	22 of yy
Proj		Drw.		Print	Yes
				v.	1
				Edit	26

ESD CRITICAL LINES!

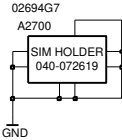


Route SIM_CLK and SIM_IO signals as striplines (EMC)

Use gnd to protect other signals (ESD)

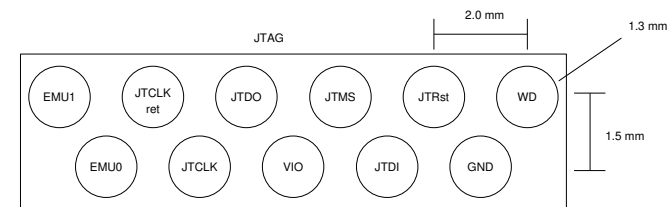
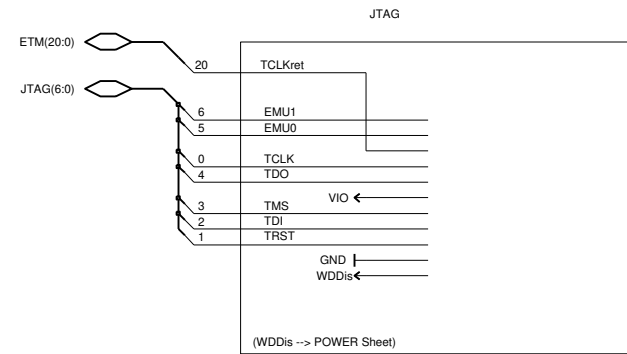
Use together with Gazoo

SIM card holder



AUDIOTEST(5:0) 

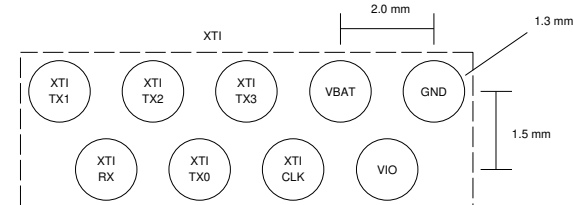
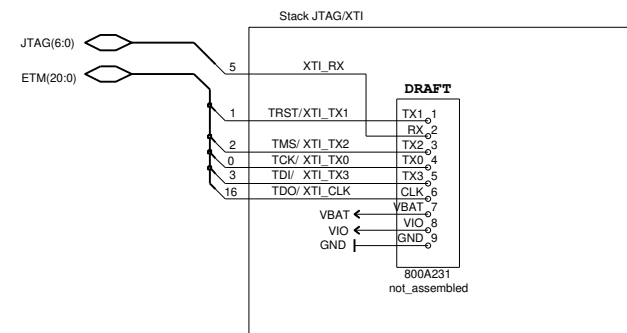
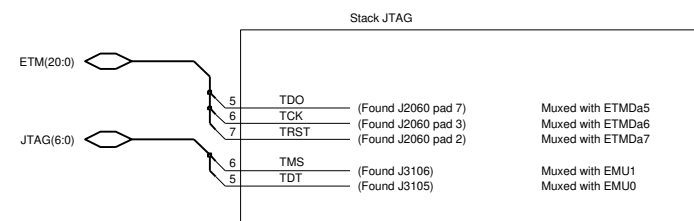
JTAG REMOVED



Layout pattern for JTAG flex

Placed on top layer: Use the view as it is

Placed on bottom layer: Mirror the view



Layout pattern for XTI flex

Placed on top layer: Use the view as it is

Placed on bottom layer: Mirror the view

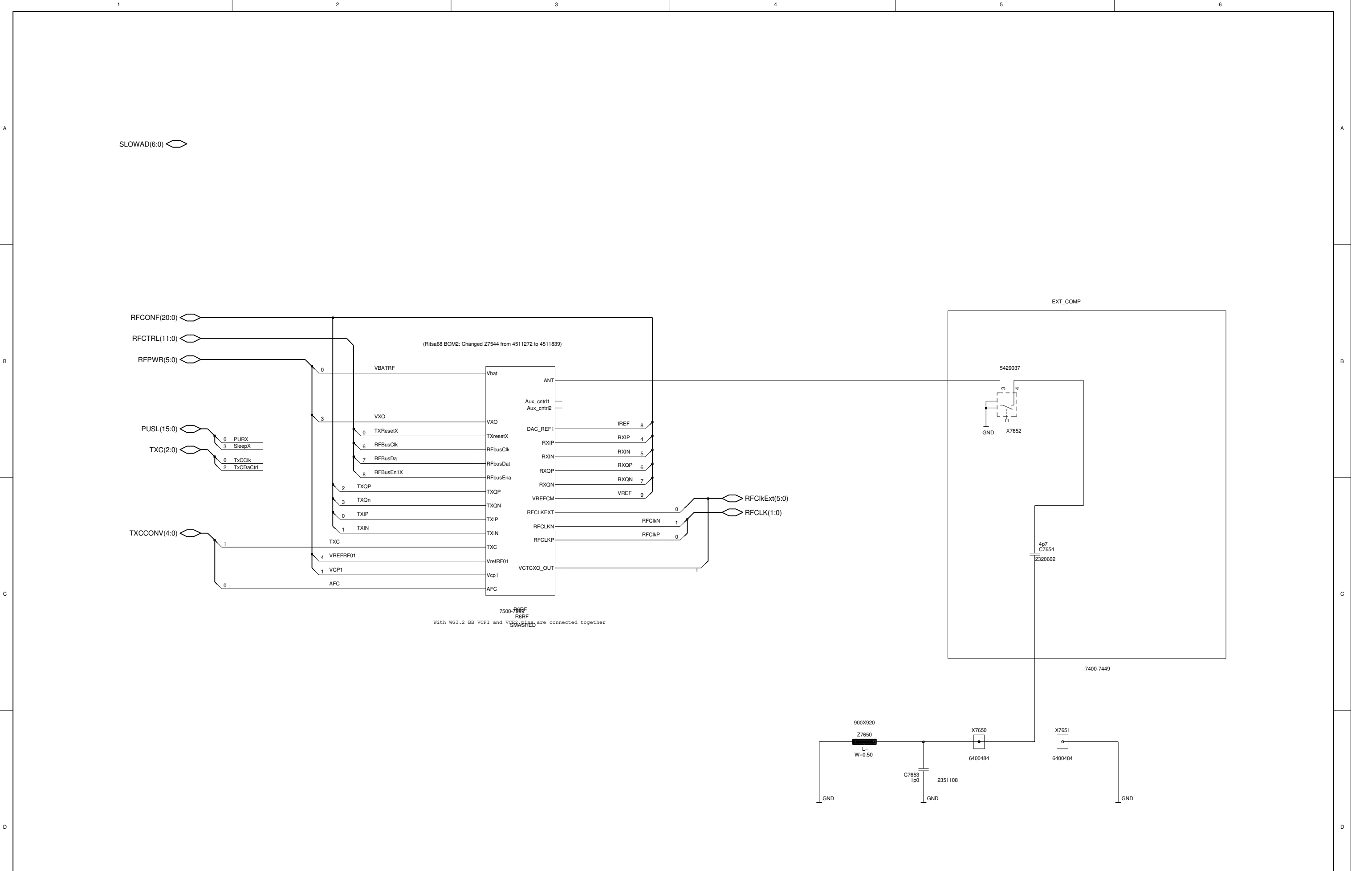
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Name	Test Interface		Appr	dd-mmm-yy	
Assoc	Main PWB		Des.	HOLBEKST	21-Mar-07
			Dr.	E0592687	07-Jul-10
File			Sheet	24 of yy	1 (01)
Proj	Seoul P3428 / Courage P3489	Drw.	Print	Yes	V. 1 Edit 20



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Name	Ritza 6 - RF schematic		Appr	dd-mmm-yy	
Assoc	Main PWB		Des.	HOLBEKST 02-Sep-08	
			Dr.	E0590401 09-Jul-10	
File	/nokia/xsa_nmp/groups/hwsc1017/destiny/engine/3KTA_05/sch/cmt_engine/RF		Sheet	25 of yy	0 (01)
Proj			Print	Yes	
	Drw.		v.	1	Edit 42

