PG132-A02

320W, FH Std PCB, 320b, GDDR6X 2CH x16
DP + DP + DP + HDMI

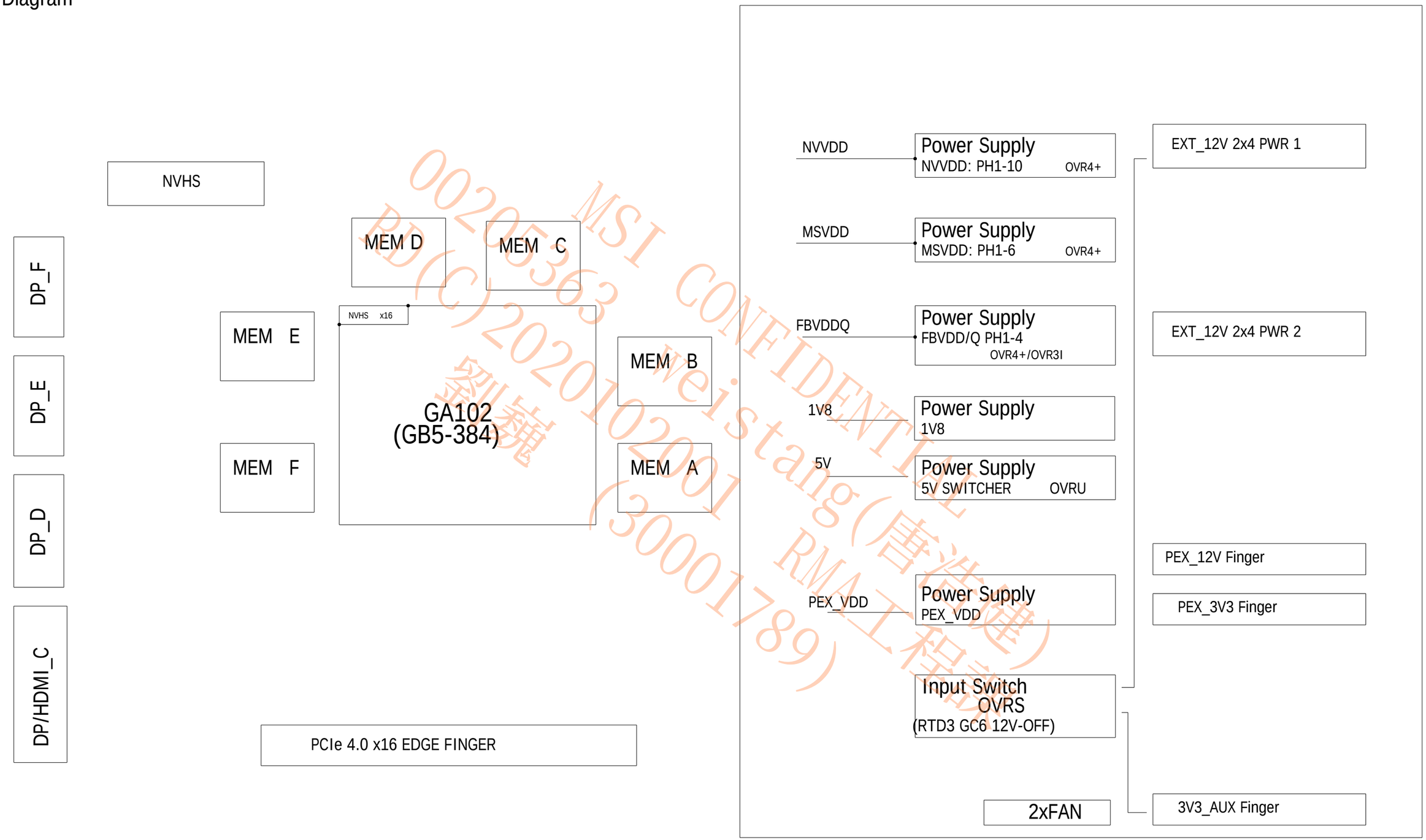
TABLE OF CONTENTS

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	Table of Contents

NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	1 OF 79
BOM REV	C	DATE	15-JUN-2020

Block Diagram

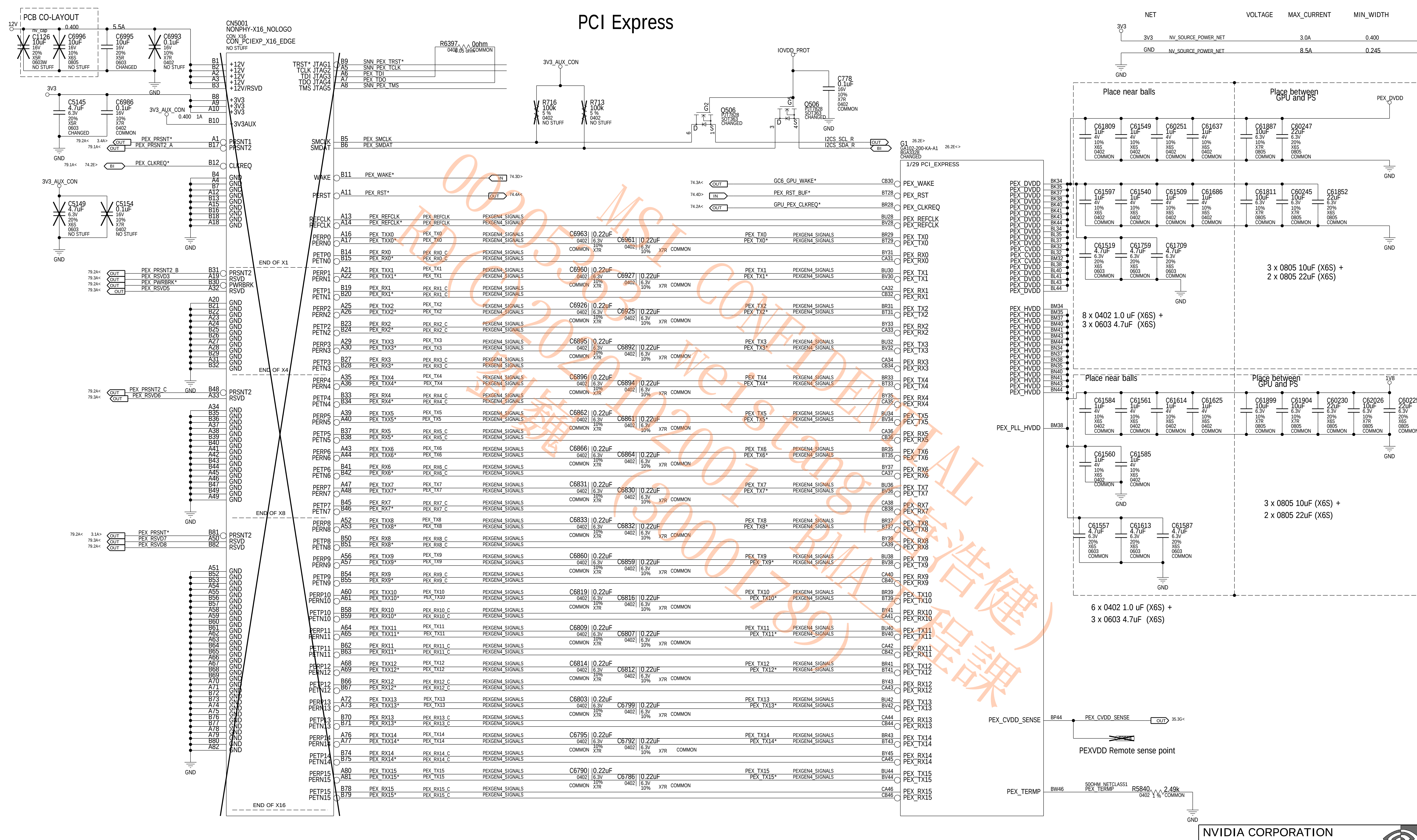


ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	BLOCK DIAGRAM

NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	2 OF 79
BOM REV	C	DATE	15-JUN-2020

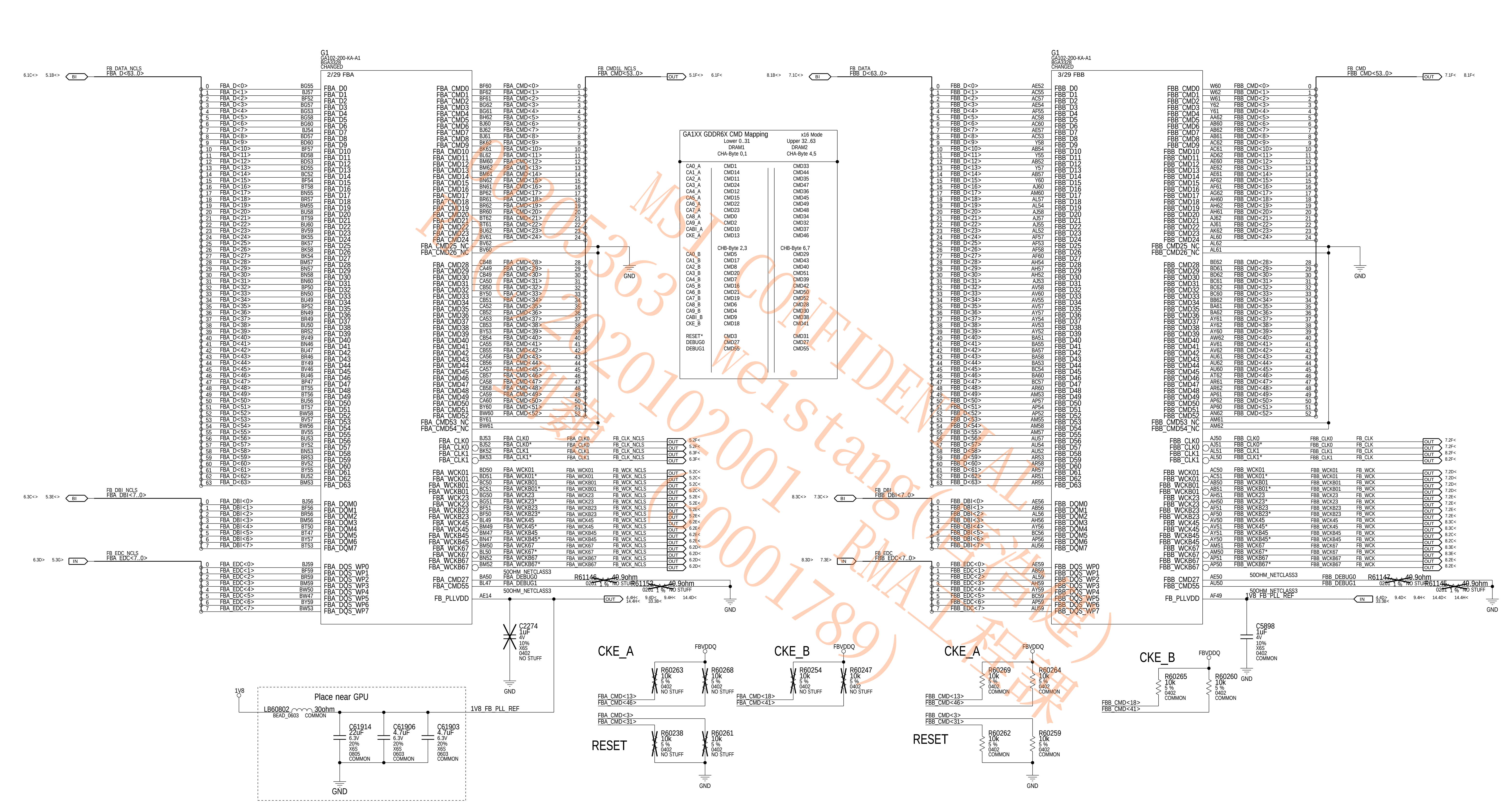
PCI Express



NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PCI EXPRESS
NV_PN	600-1G132-0030-300
PCB REV	PG132-A02
BOM REV	C
PAGE	3 OF 79
DATE	15-JUN-2020

MEMORY: GPU Partition A/B

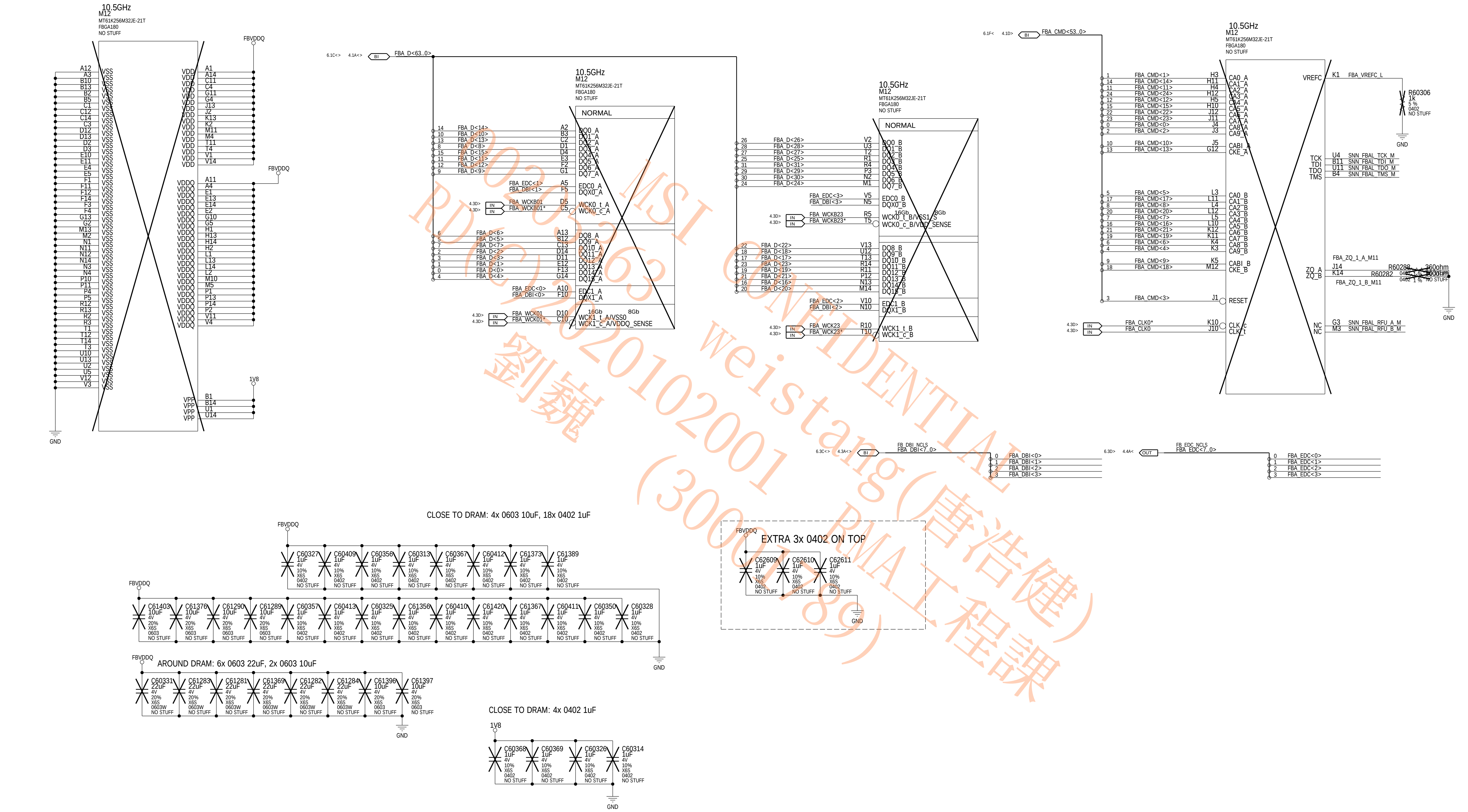


ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	MEMORY: GPU PARTITION A/B

NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	4 OF 79
BOM REV	C	DATE	15-JUN-2020

MEMORY: FBA Partition 31..0

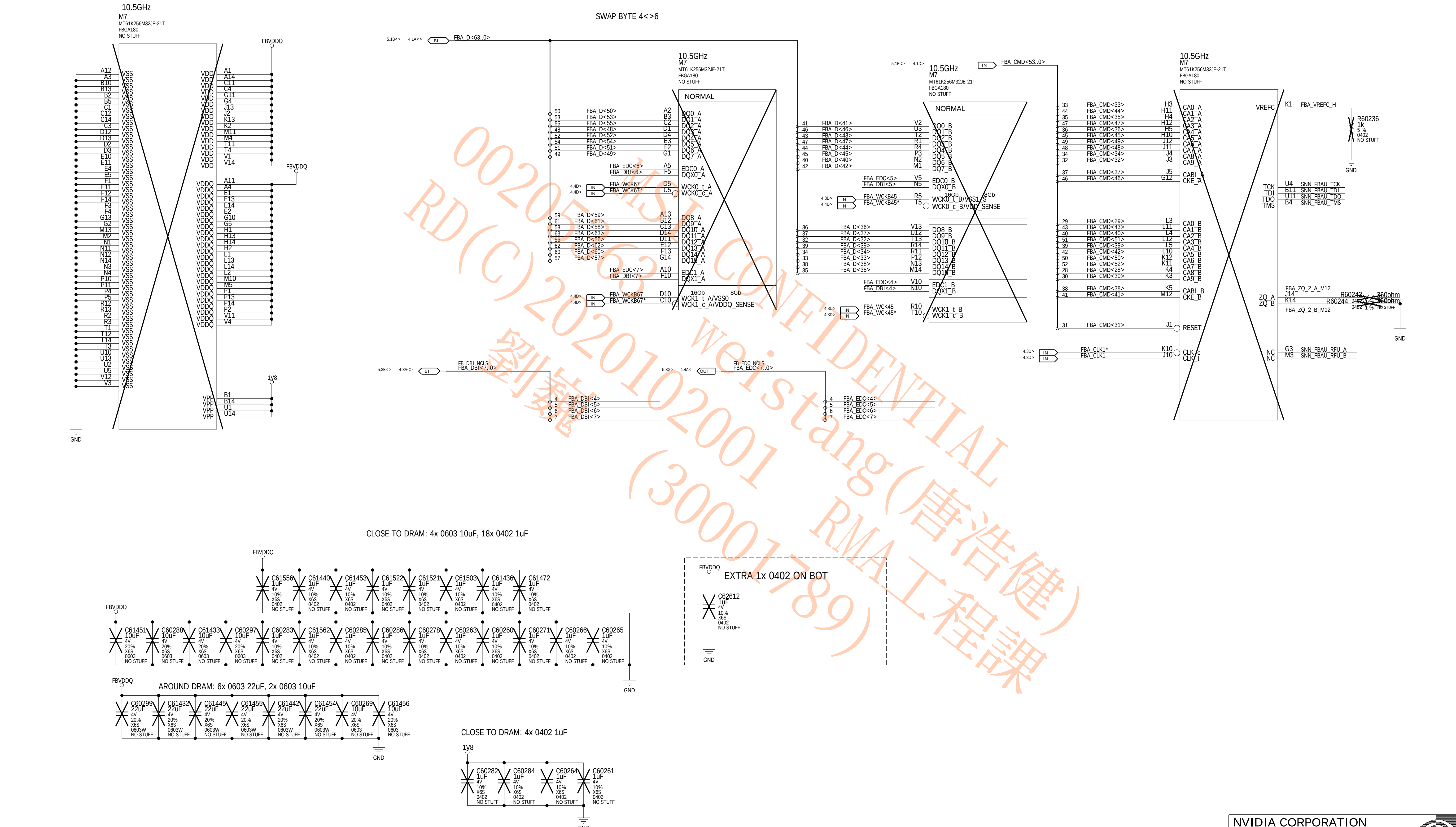


ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	MEMORY: FBA PARTITION[31:0]

NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	5 OF 79
BOM REV	C	DATE	15-JUN-2020

MEMORY: FBA Partition 63..32

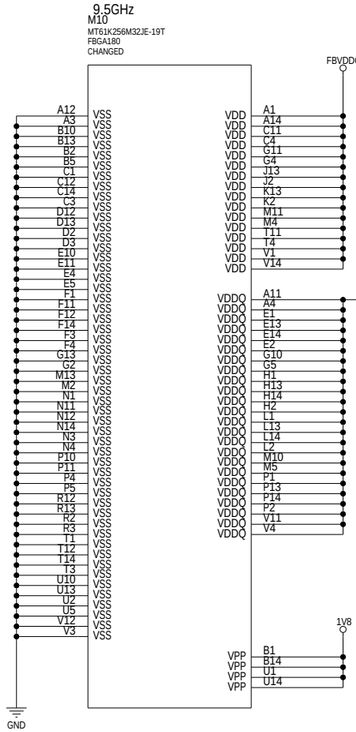


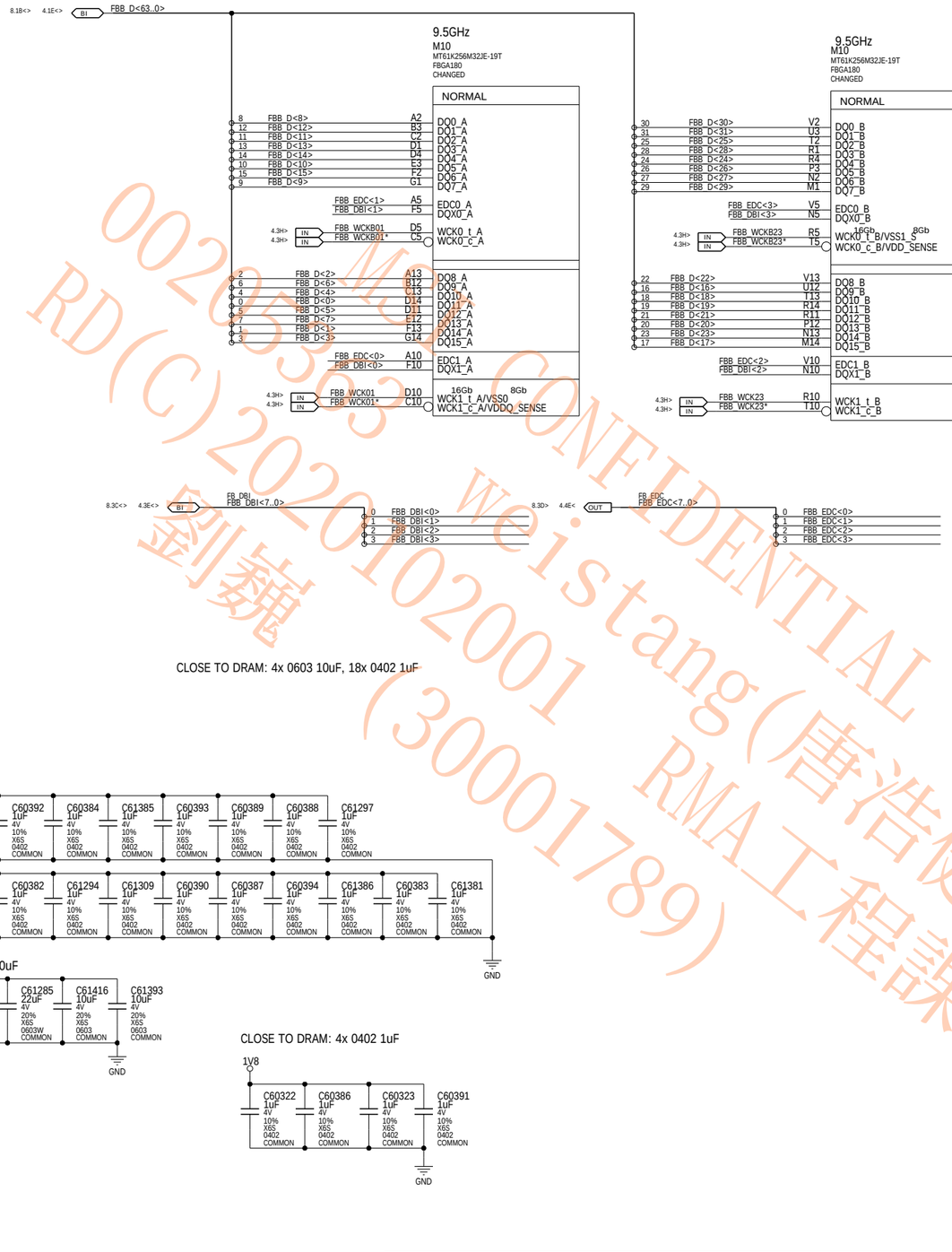
ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	MEMORY: FBA PARTITION[63:32]

NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	6 OF 79
BOM REV	C	DATE	15-JUN-2020

MEMORY: FBB Partition 31..0





CLOSE TO DRAM: 4x 0603 10uF, 18x 0402 1uF

AROUND DRAM: 6x 0603 22uF, 2x 0603 10uF

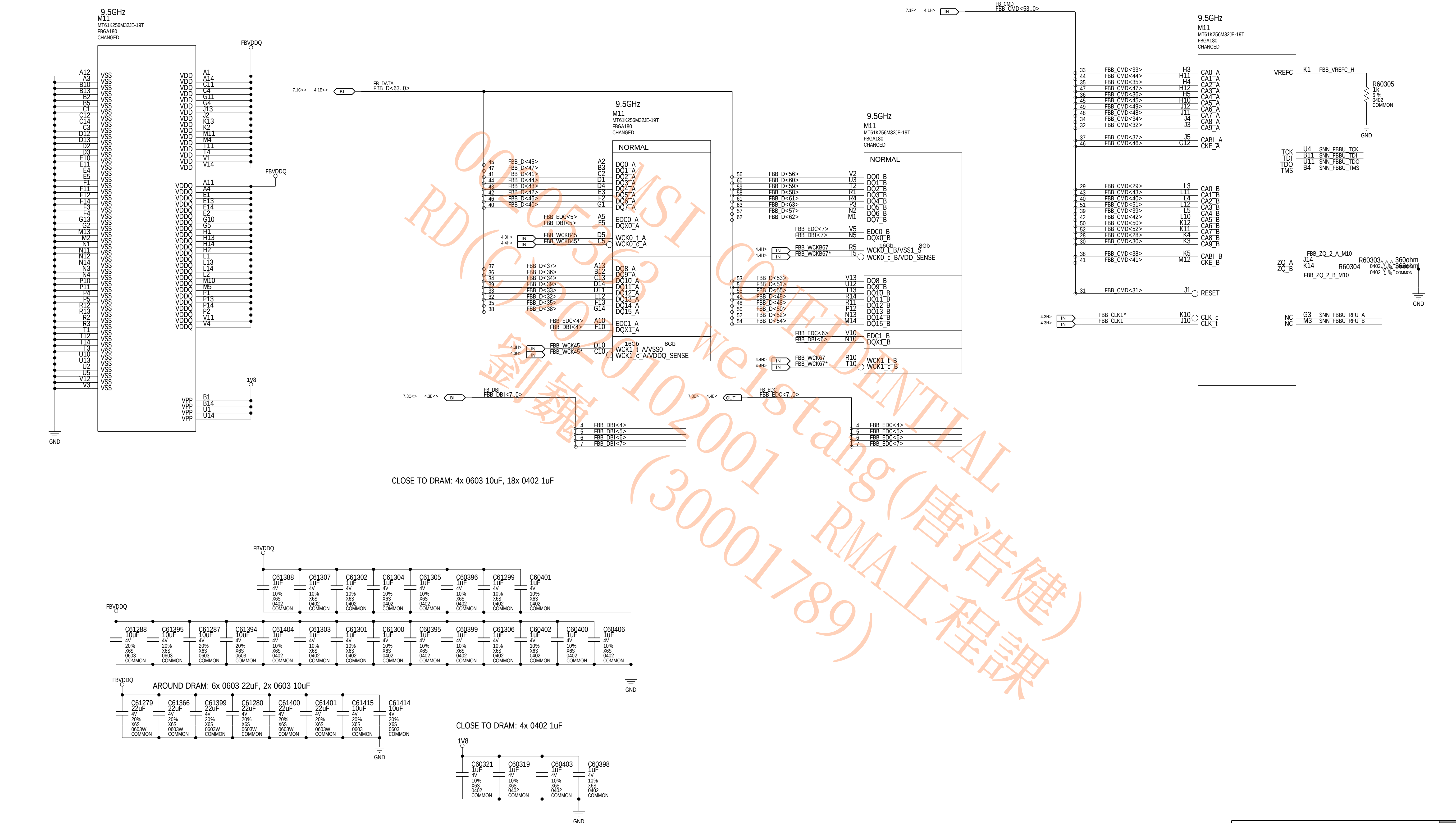
CLOSE TO DRAM: 4x 0402 1uF

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	MEMORY: FBB PARTITION[31:0]

NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	7 OF 79
BOM REV	C	DATE	15-JUN-2020

MEMORY: FBB Partition 63..32

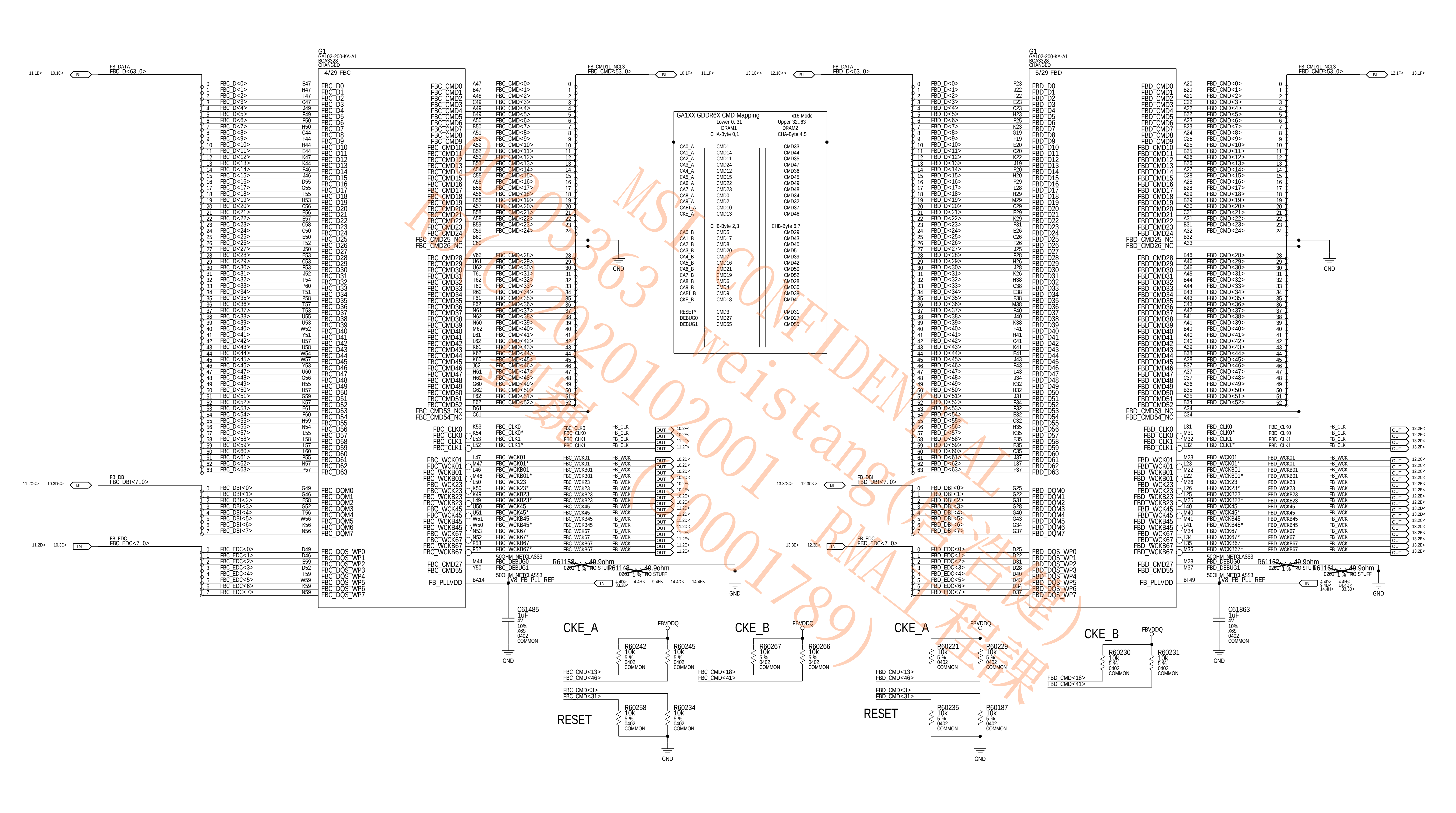


ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	MEMORY: FBB PARTITION[63:32]

NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	8 OF 79
BOM REV	C	DATE	15-JUN-2020

MEMORY: GPU Partition C/D

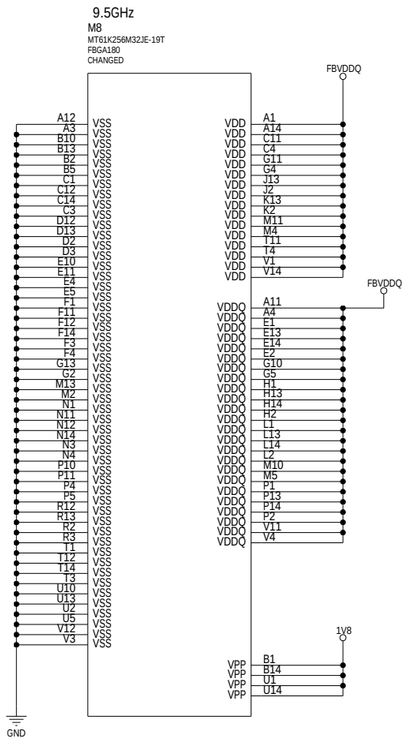


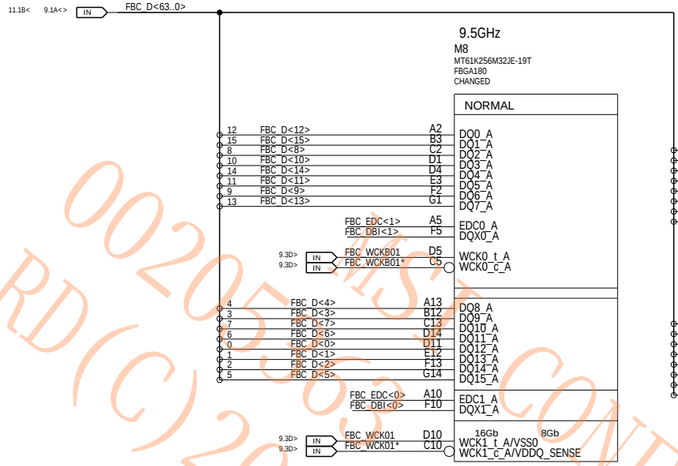
ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	MEMORY: GPU PARTITION C/D

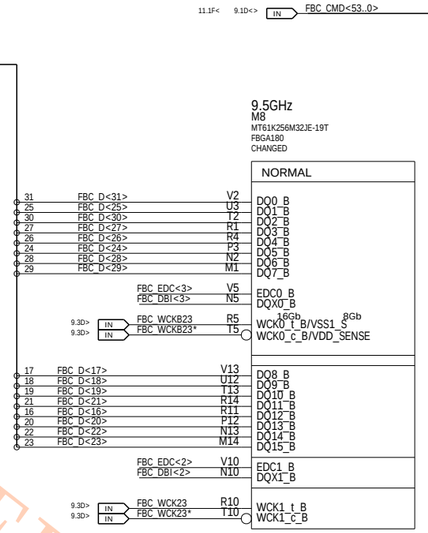
NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

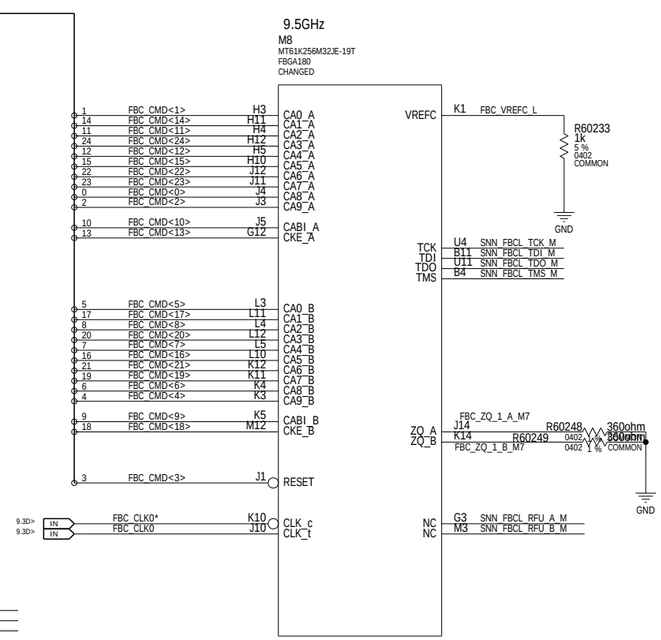
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	9 OF 79
BOM REV	C	DATE	15-JUN-2020

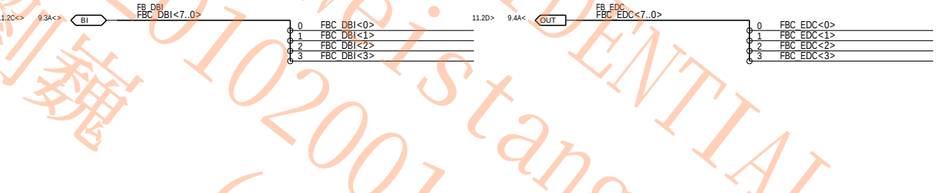
MEMORY: FBC Partition 31..0

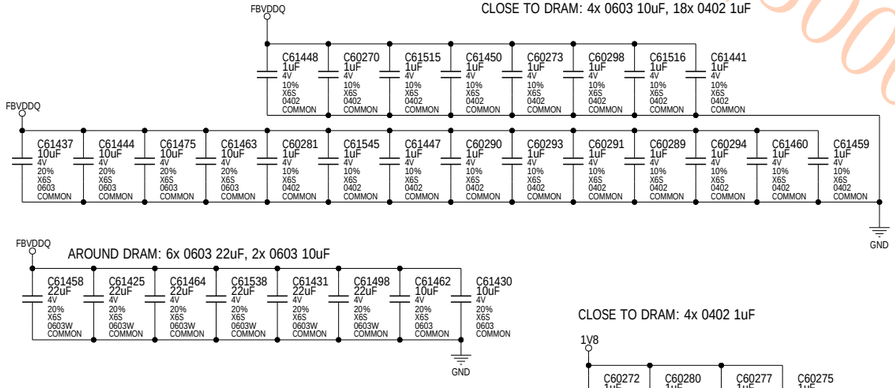










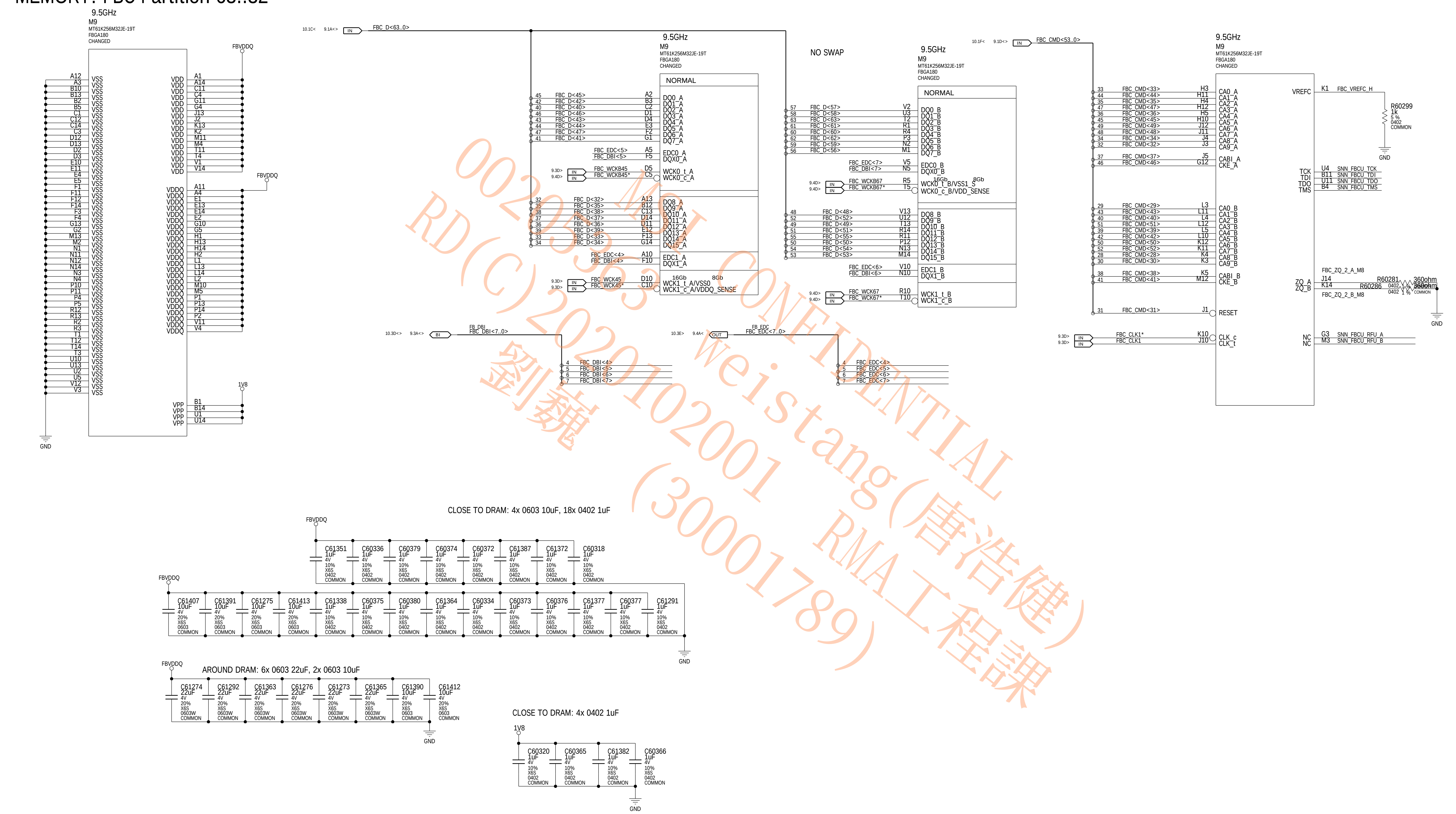


ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	MEMORY: FBC PARTITION[31:0]

NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	10 OF 79
BOM REV	C	DATE	15-JUN-2020

MEMORY: FBC Partition 63..32

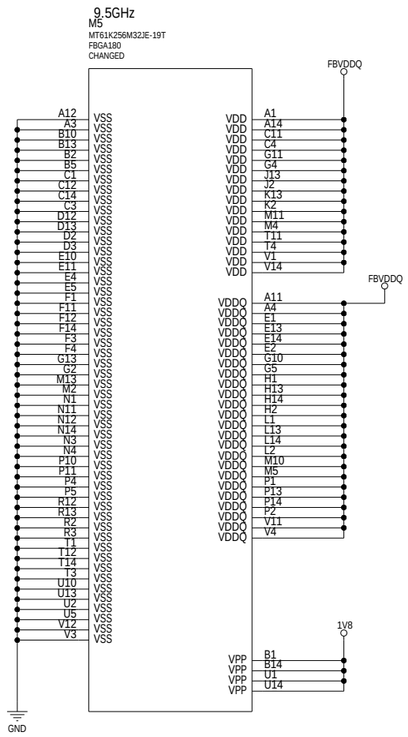


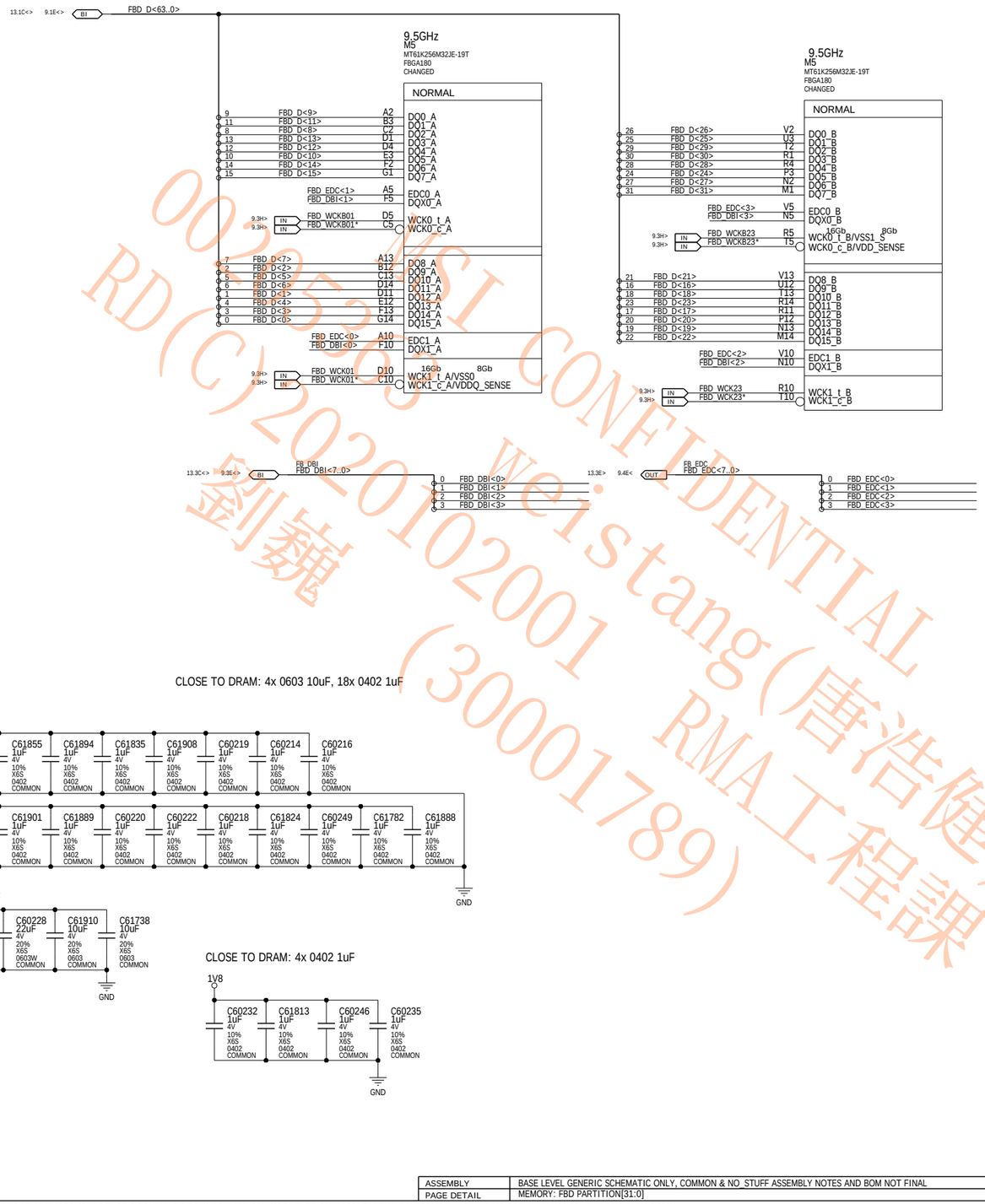
ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	MEMORY: FBC PARTITION[63:32]

NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	11 OF 79
BOM REV	C	DATE	15-JUN-2020

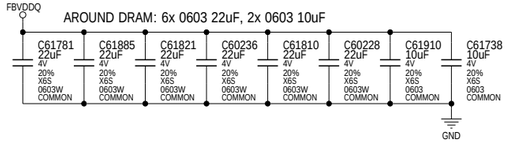
MEMORY: FBD Partition 31..0





CLOSE TO DRAM: 4x 0603 10uF, 18x 0402 1uF

AROUND DRAM: 6x 0603 22uF, 2x 0603 10uF



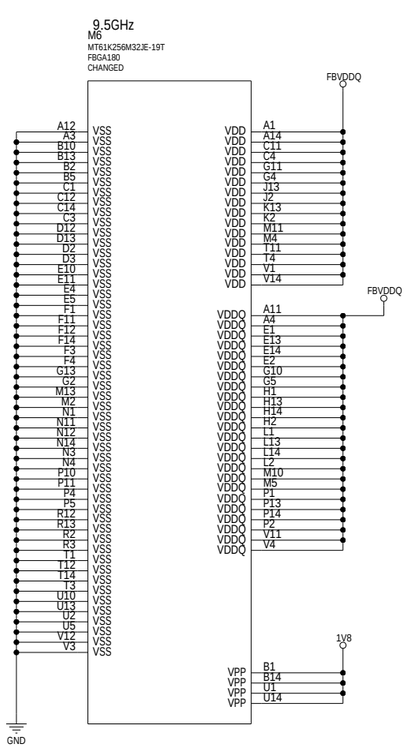
CLOSE TO DRAM: 4x 0402 1uF

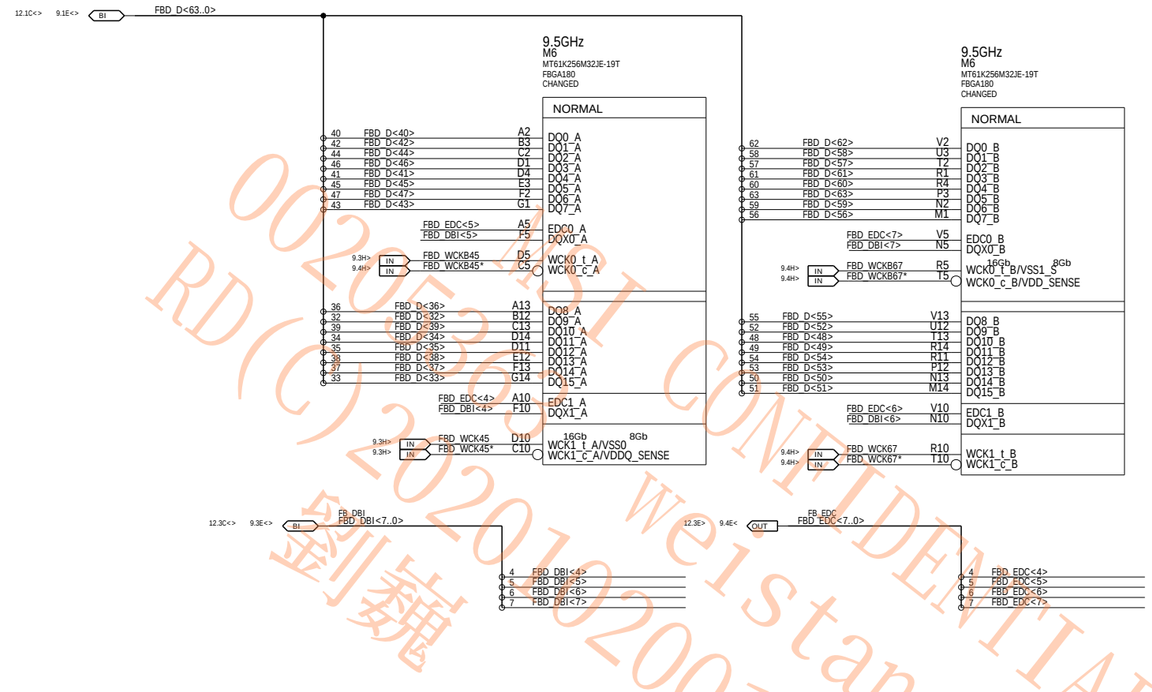
ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	MEMORY: FBD PARTITION[31:0]

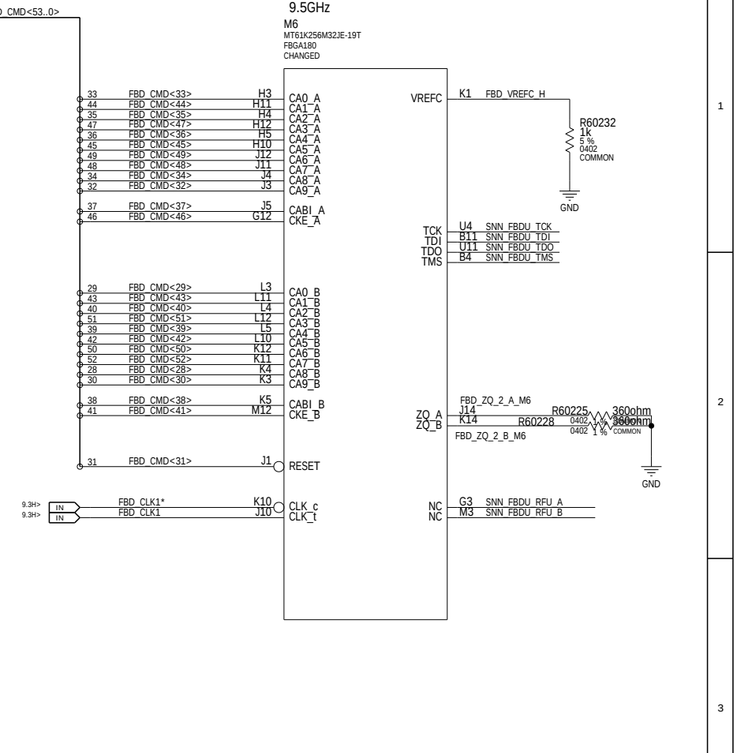
NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

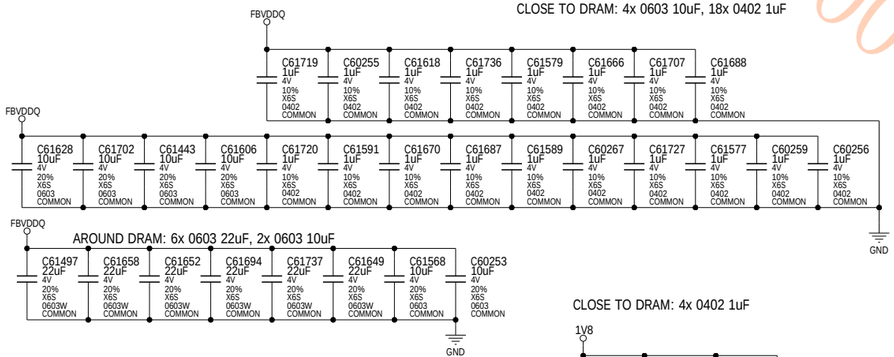
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	12 OF 79
BOM REV	C	DATE	15-JUN-2020

MEMORY: FBD Partition 63..32







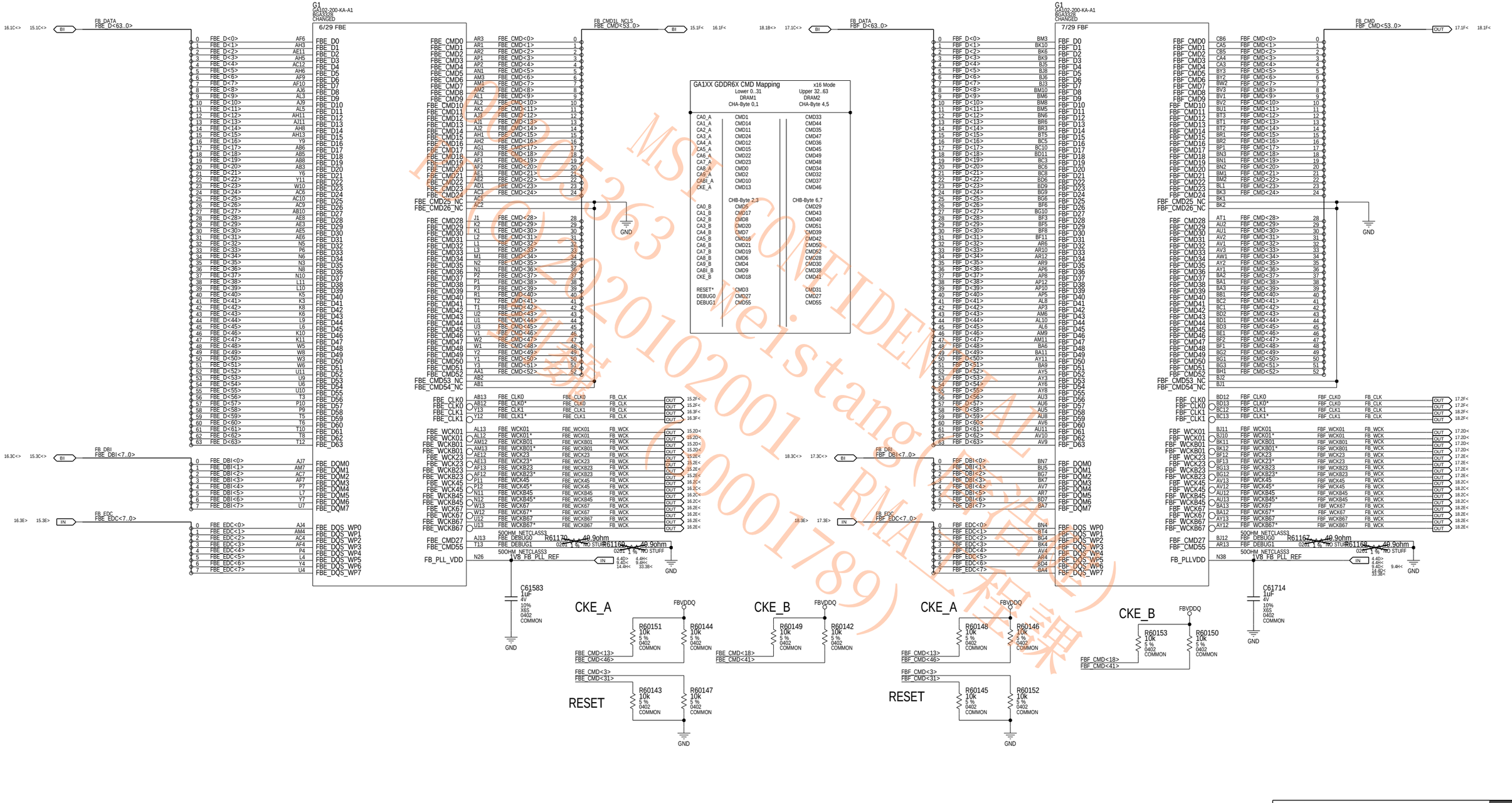


ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	MEMORY: FBD PARTITION[63:32]

NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	13 OF 79
BOM REV	C	DATE	15-JUN-2020

MEMORY: GPU Partition E/F

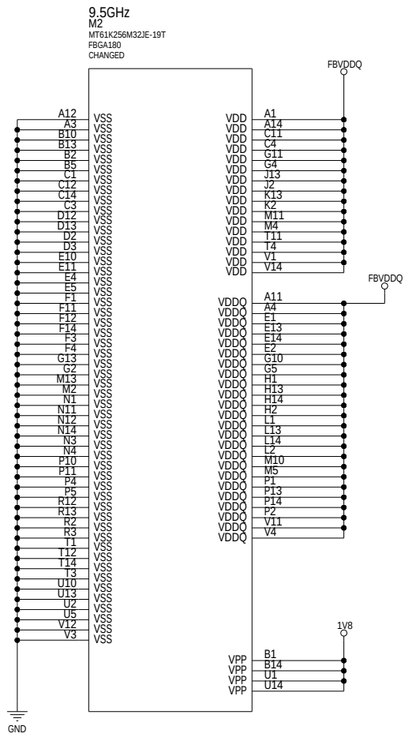


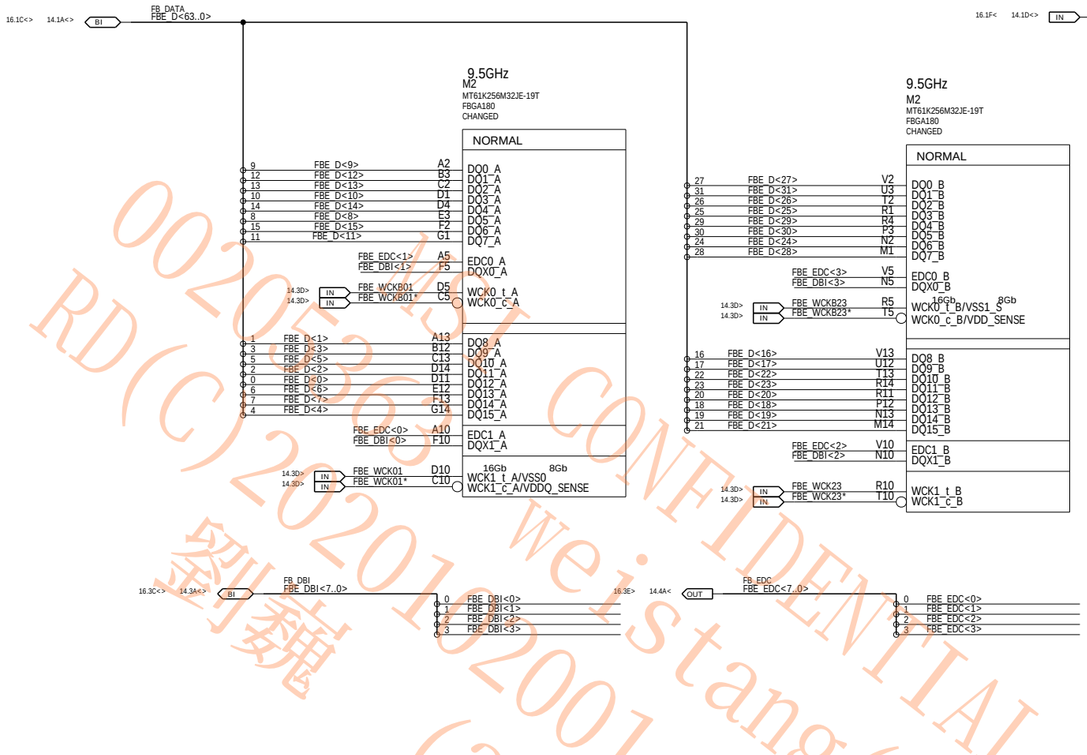
ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	MEMORY: GPU PARTITION E/F

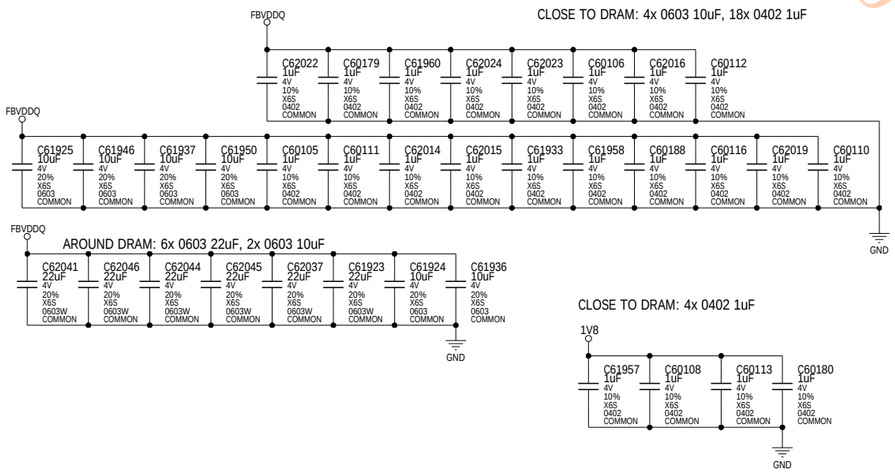
NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	14 OF 79
BOM REV	C	DATE	15-JUN-2020

MEMORY: FBE Partition 31..0





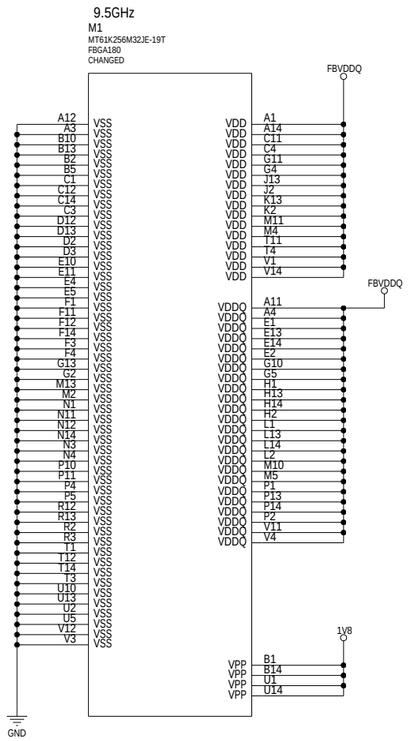


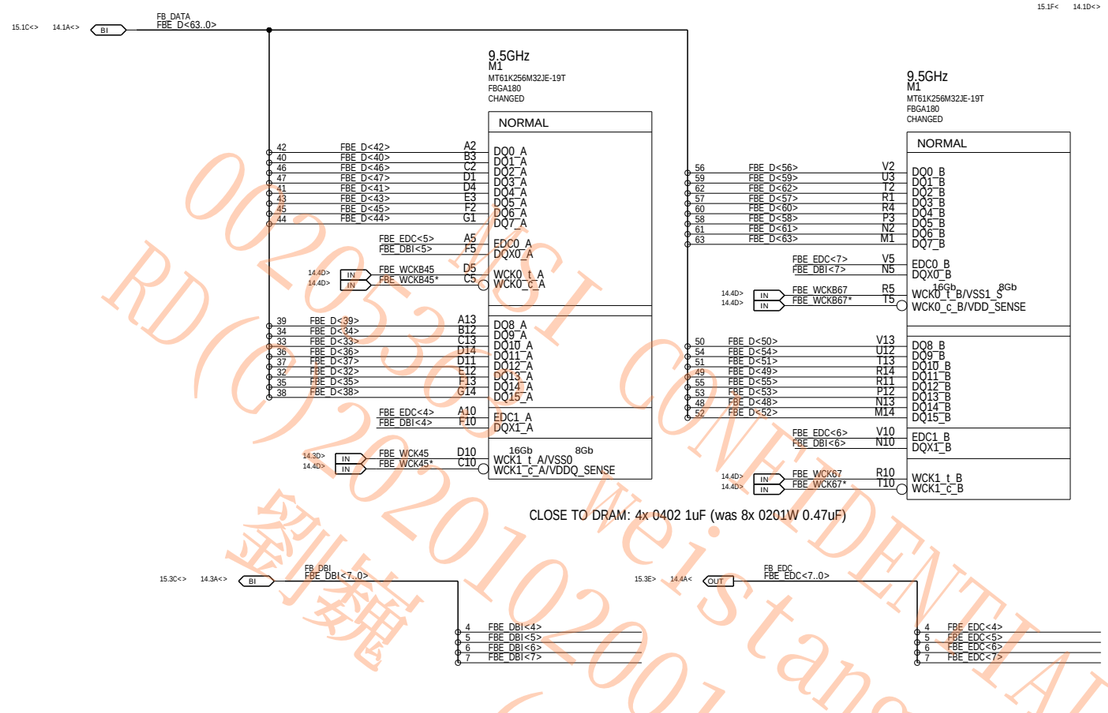
ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	MEMORY: FBE PARTITION[31:0]

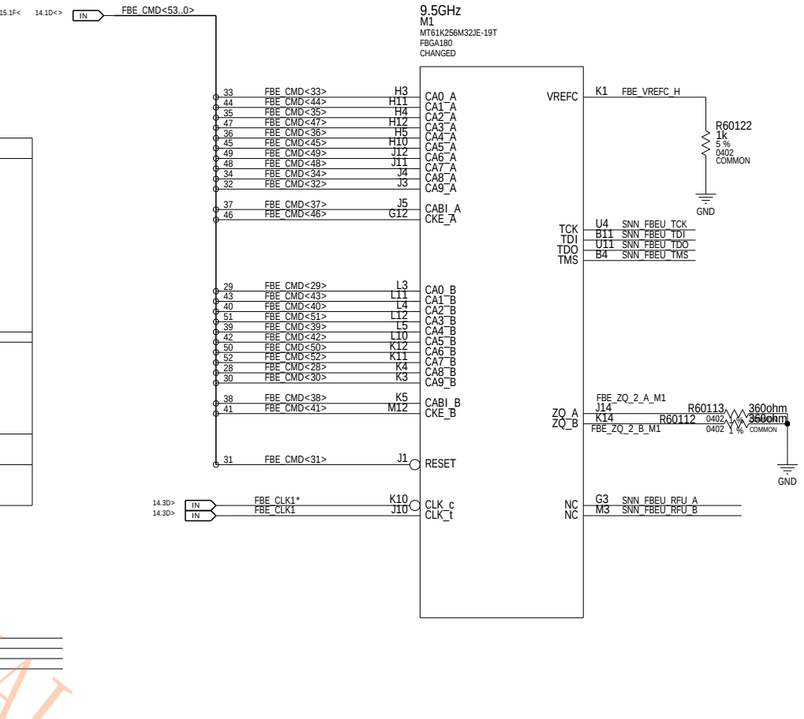
NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

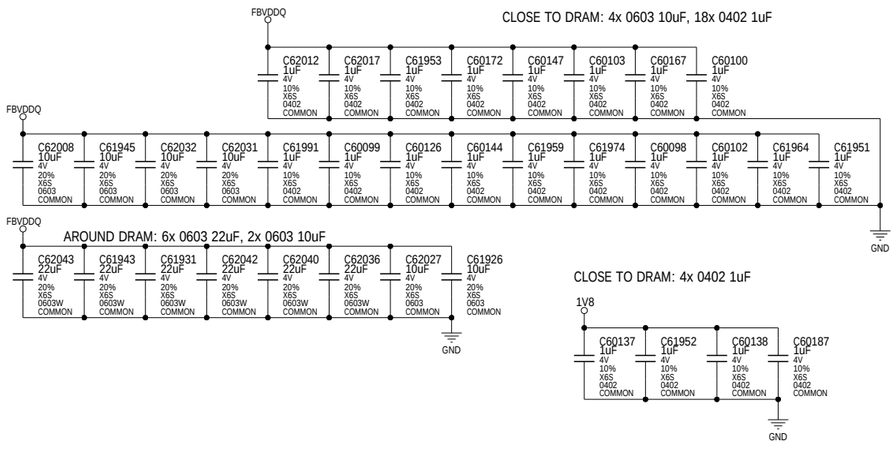
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	15 OF 79
BOM REV	C	DATE	15-JUN-2020

MEMORY: FBE Partition 63..32







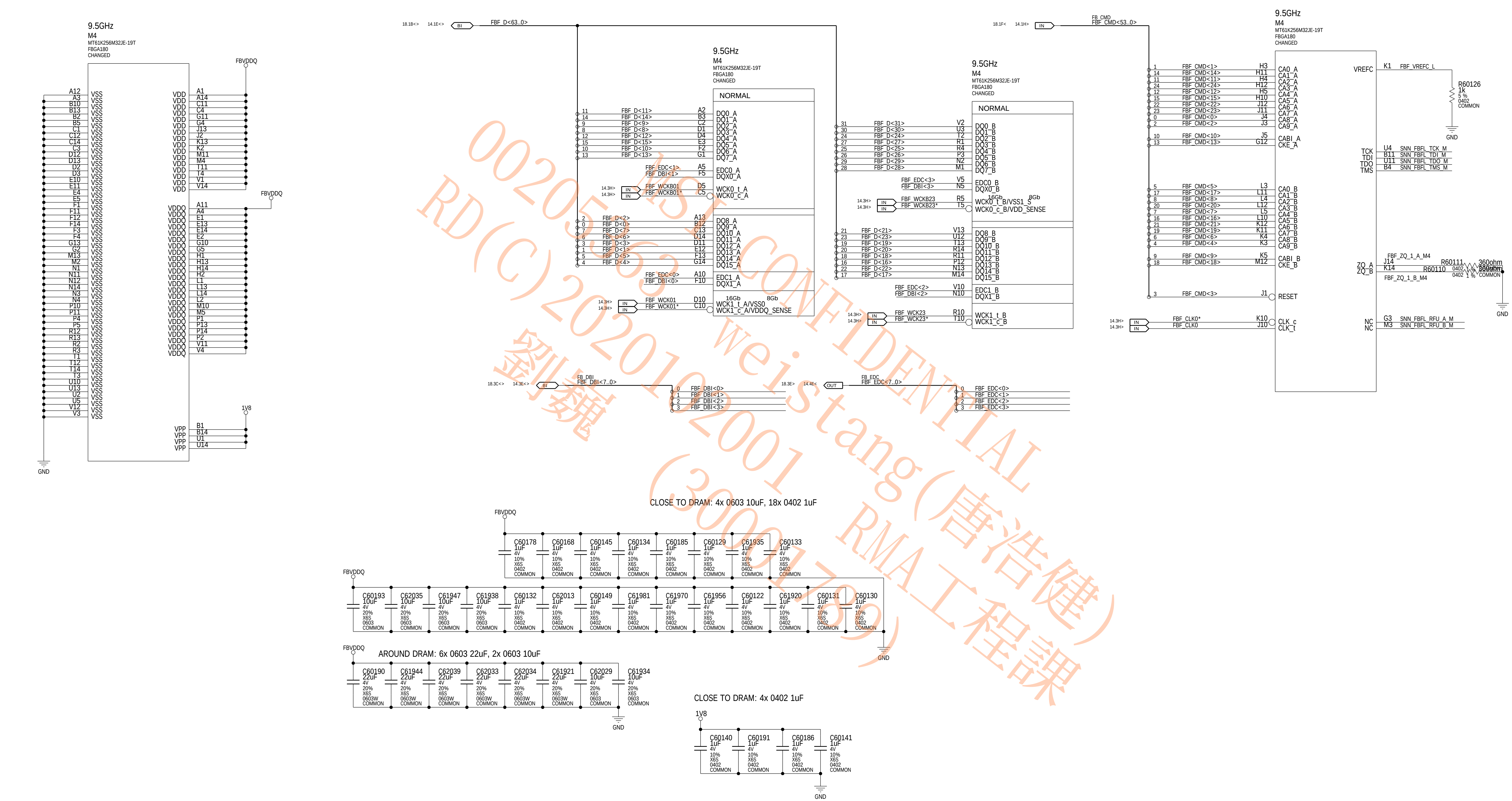


ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	MEMORY: FBE PARTITION[63:32]

NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	16 OF 79
BOM REV	C	DATE	15-JUN-2020

MEMORY: FBF Partition 31..0

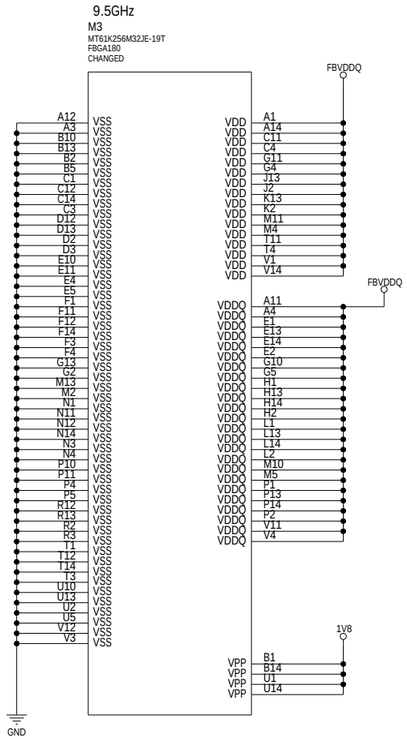


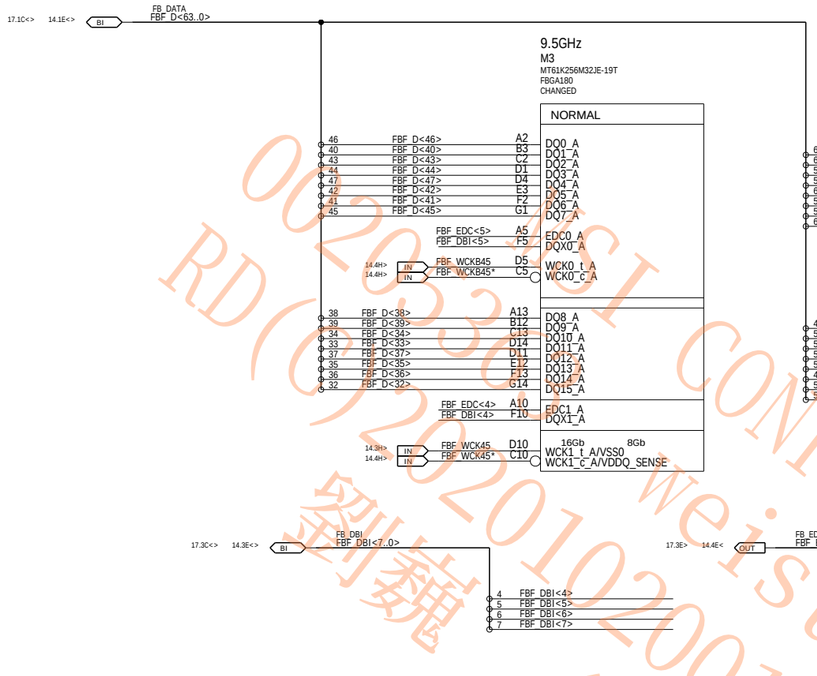
ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	MEMORY: FBF PARTITION[31:0]

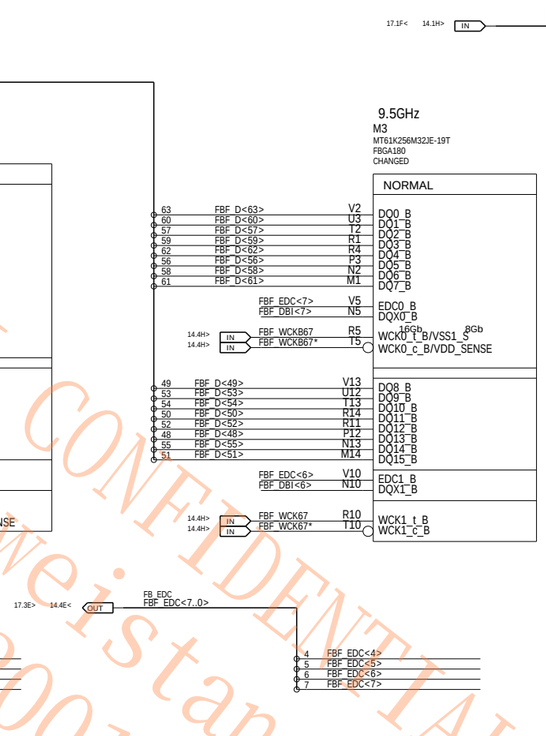
NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

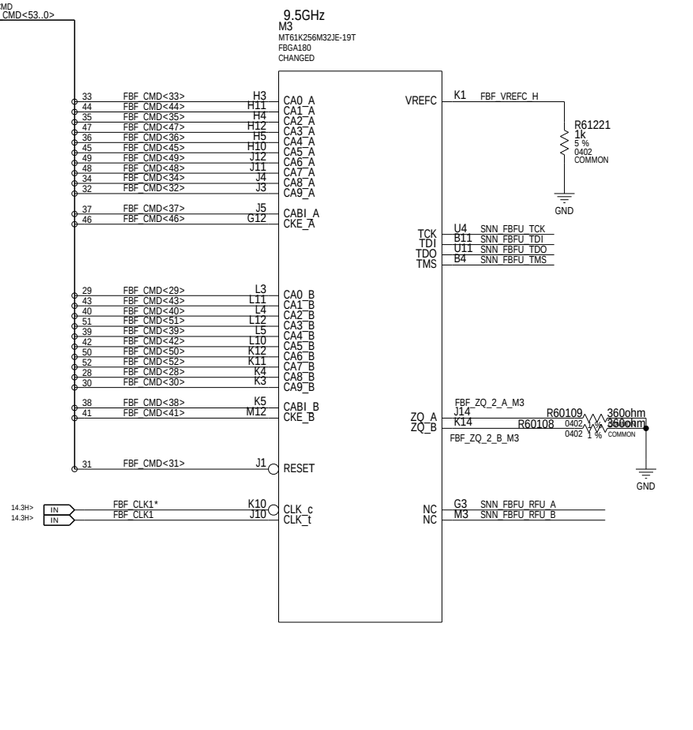
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	17 OF 79
BOM REV	C	DATE	15-JUN-2020

MEMORY: FBF Partition 63..32

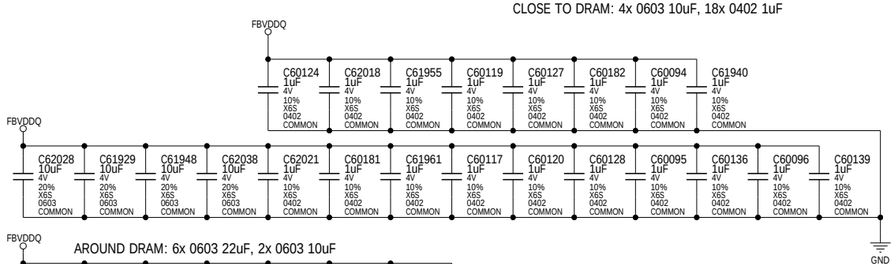


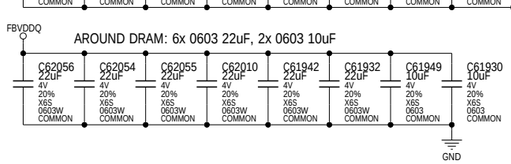






CLOSE TO DRAM: 4x 0603 10uF, 18x 0402 1uF





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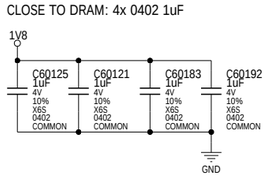


ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	MEMORY: FBF PARTITION[63:32]

NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	18 OF 79
BOM REV	C	DATE	15-JUN-2020

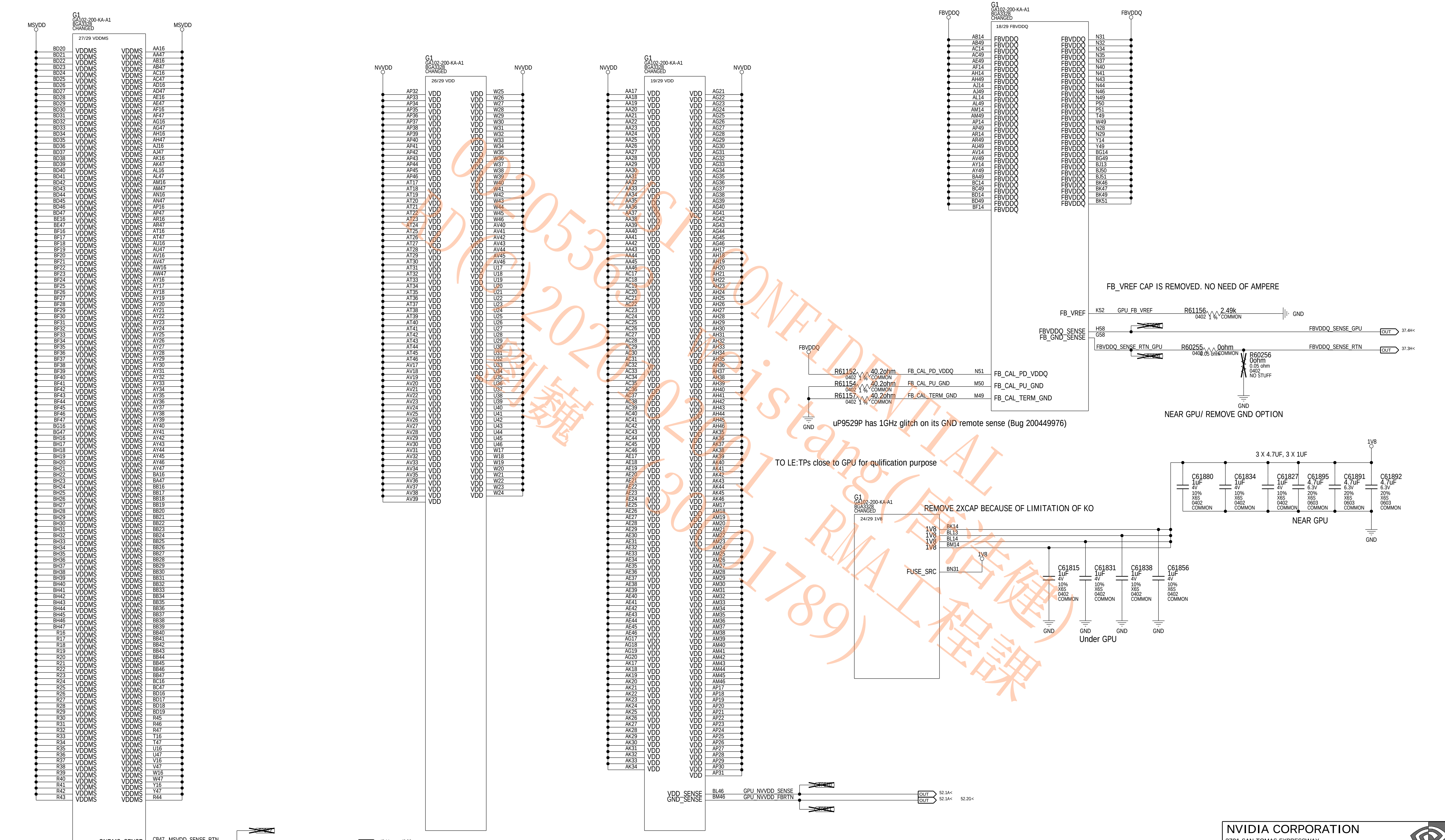
GPU GND, RFUs & RSVD

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	GPU GND, RFUs & RSVD

NVIDIA CORPORATION
2701 SAN TOMAS EXPRESSWAY
SANTA CLARA, CA 95050, USA

NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	19 OF 79
BOM REV	C	DATE	15-JUN-2020

GPU PWR and GND



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	GPU POWERS

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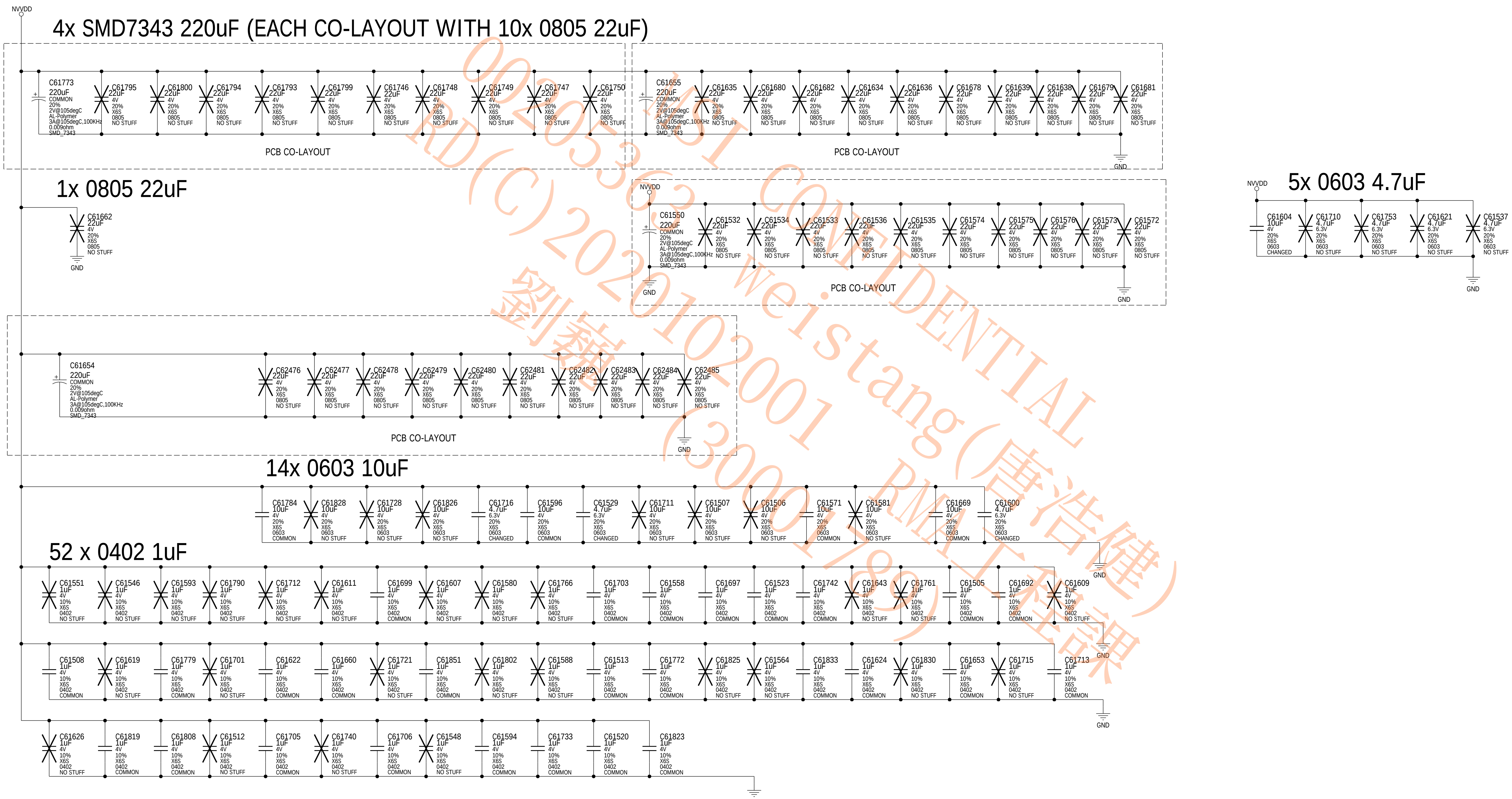
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	20 OF 79
BOM REV	C	DATE	15-JUN-2020

Page 21: GPU: NVVDD DECOUPLING

NVVDD

UNDER GPU



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	GPU DECOUPLING NVVDD

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NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	21 OF 79
BOM REV	C	DATE	15-JUN-2020

Page 22: GPU: FBVDD DECOUPLING

FBVDDQ

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	GPU DECOUPLING FBVDDQ

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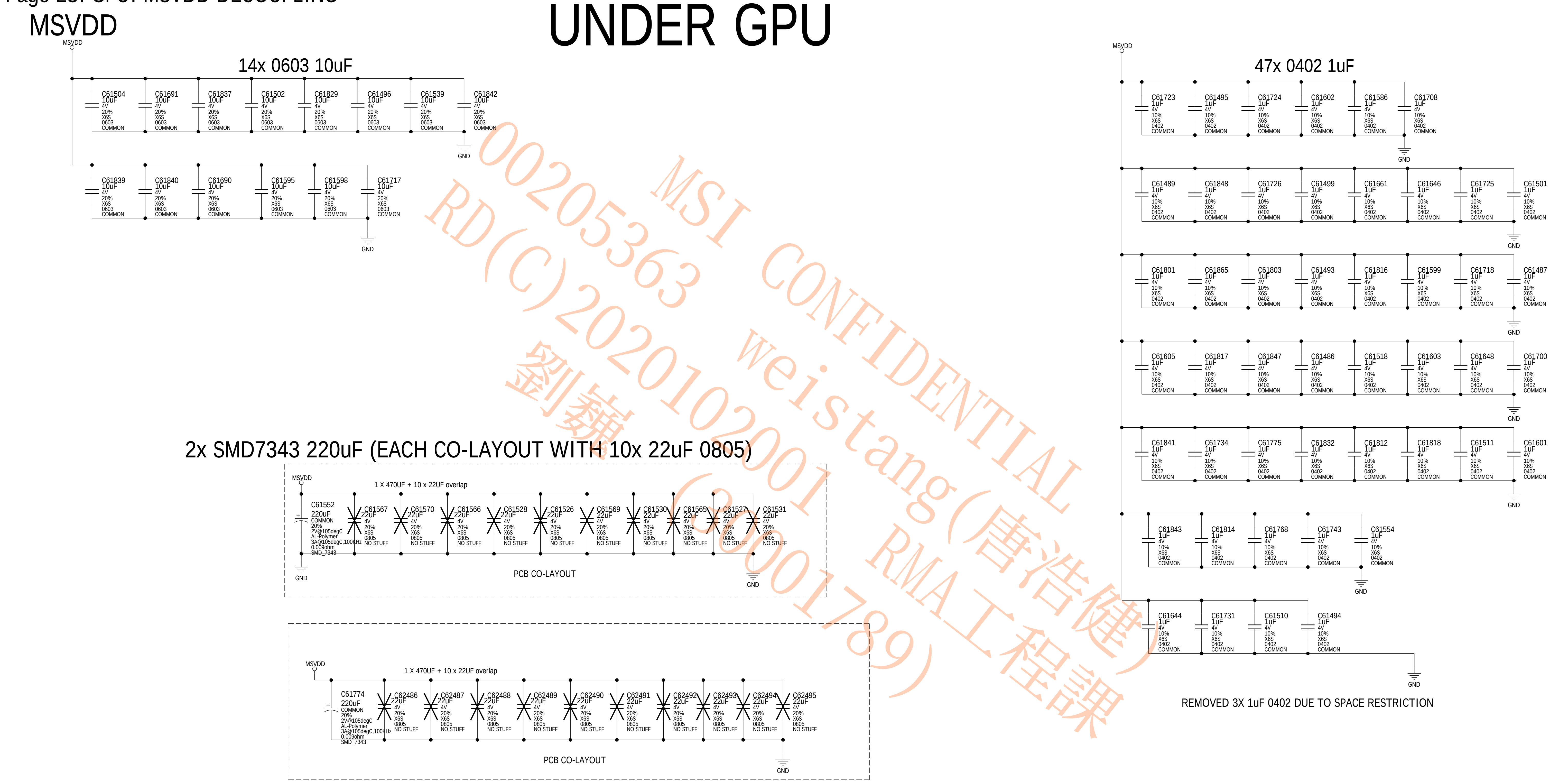
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	22 OF 79
BOM REV	C	DATE	15-JUN-2020

Page 23: GPU: MSVDD DECOUPLING



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	GPU DECOUPLING MSVDD

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NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	23 OF 79
BOM REV	C	DATE	15-JUN-2020

BLANK

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	BLANK

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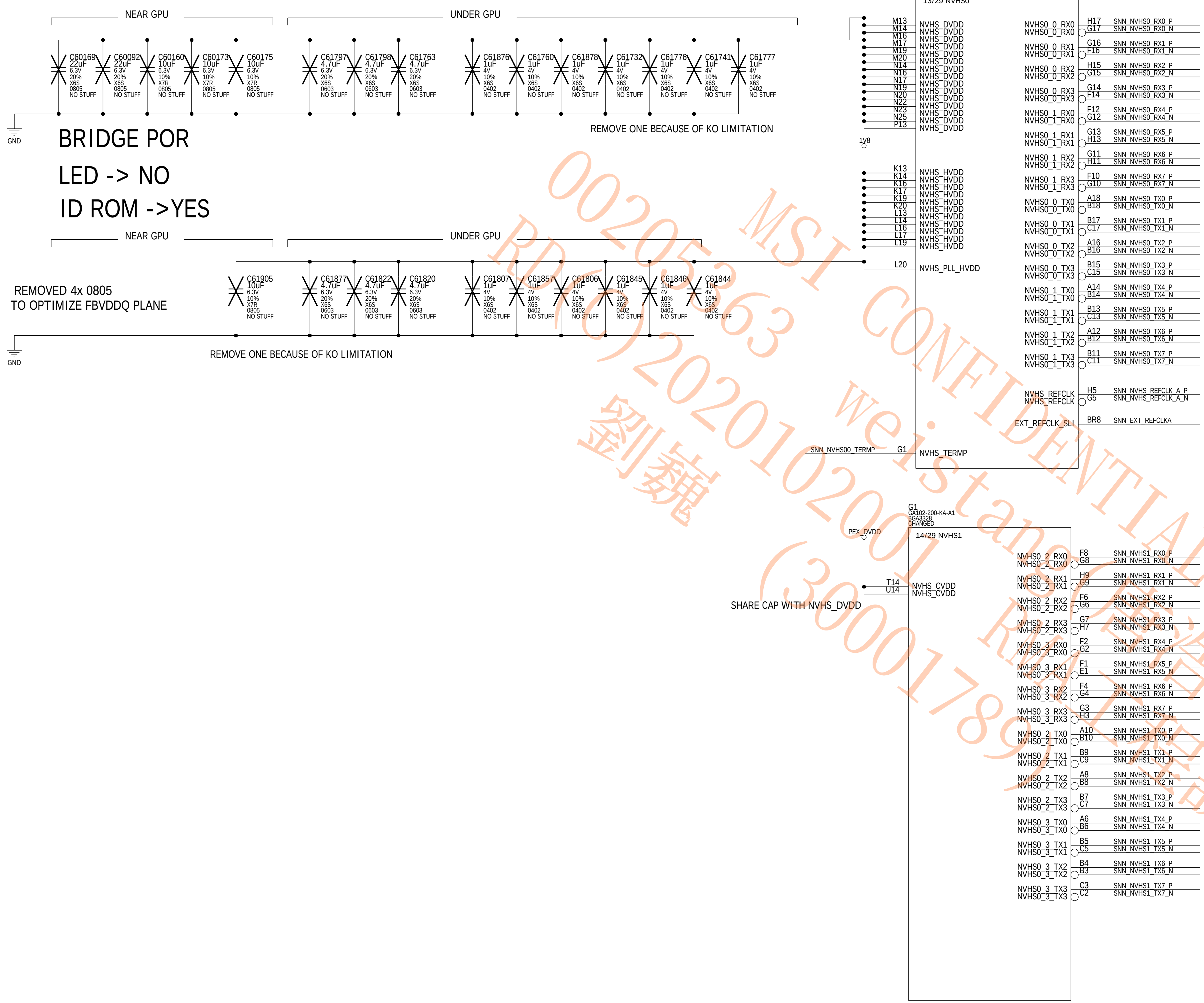
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	24 OF 79
BOM REV	C	DATE	15-JUN-2020

NVHS Interface and FRAME LOCK



NEAR GPU
UNDER GPU
C60169 22uF 6.3V 20% X6S 0805 NO STUFF
C60092 22uF 6.3V 20% X6S 0805 NO STUFF
C60160 10uF 6.3V 10% X7R 0805 NO STUFF
C60173 10uF 6.3V 10% X7R 0805 NO STUFF
C60175 10uF 6.3V 10% X7R 0805 NO STUFF
C61797 4.7uF 6.3V 20% X6S 0603 NO STUFF
C61798 4.7uF 6.3V 20% X6S 0603 NO STUFF
C61763 4.7uF 6.3V 20% X6S 0603 NO STUFF
C61876 1uF 4V 10% X6S 0402 NO STUFF
C61760 1uF 4V 10% X6S 0402 NO STUFF
C61878 1uF 4V 10% X6S 0402 NO STUFF
C61732 1uF 4V 10% X6S 0402 NO STUFF
C61776 1uF 4V 10% X6S 0402 NO STUFF
C61741 1uF 4V 10% X6S 0402 NO STUFF
C61777 1uF 4V 10% X6S 0402 NO STUFF
GND
REMOVE ONE BECAUSE OF KO LIMITATION
BRIDGE POR
LED -> NO
ID ROM ->YES
NEAR GPU
UNDER GPU
REMOVED 4x 0805
TO OPTIMIZE FBVDDQ PLANE
C61905 10uF 6.3V 10% X7R 0805 NO STUFF
C61877 4.7uF 6.3V 20% X6S 0603 NO STUFF
C61822 4.7uF 6.3V 20% X6S 0603 NO STUFF
C61820 4.7uF 6.3V 20% X6S 0603 NO STUFF
C61807 1uF 4V 10% X6S 0402 NO STUFF
C61857 1uF 4V 10% X6S 0402 NO STUFF
C61806 1uF 4V 10% X6S 0402 NO STUFF
C61845 1uF 4V 10% X6S 0402 NO STUFF
C61846 1uF 4V 10% X6S 0402 NO STUFF
C61844 1uF 4V 10% X6S 0402 NO STUFF
GND
REMOVE ONE BECAUSE OF KO LIMITATION
PEX_DVDD
G1 GA102-200-KA-A1 BGA3328 CHANGED
13/29 NVHS0
M13 M14 M16 M17 M19 M20 N14 N16 N17 N19 N20 N22 N23 N25 P13 NVHS_DVDD
1V8
K13 K14 K16 K17 K19 K20 L13 L14 L16 L17 L19 NVHS_HVDD
L20 NVHS_PLL_HVDD
NVHS0_0_RX0 H17 G17 SNN_NVHS0_RX0_P SNN_NVHS0_RX0_N
NVHS0_0_RX1 G16 F16 SNN_NVHS0_RX1_P SNN_NVHS0_RX1_N
NVHS0_0_RX2 H15 G15 SNN_NVHS0_RX2_P SNN_NVHS0_RX2_N
NVHS0_0_RX3 G14 F14 SNN_NVHS0_RX3_P SNN_NVHS0_RX3_N
NVHS0_1_RX0 F12 G12 SNN_NVHS0_RX4_P SNN_NVHS0_RX4_N
NVHS0_1_RX1 G13 H13 SNN_NVHS0_RX5_P SNN_NVHS0_RX5_N
NVHS0_1_RX2 G11 H11 SNN_NVHS0_RX6_P SNN_NVHS0_RX6_N
NVHS0_1_RX3 F10 G10 SNN_NVHS0_RX7_P SNN_NVHS0_RX7_N
NVHS0_0_TX0 A18 B18 SNN_NVHS0_TX0_P SNN_NVHS0_TX0_N
NVHS0_0_TX1 B17 C17 SNN_NVHS0_TX1_P SNN_NVHS0_TX1_N
NVHS0_0_TX2 A16 B16 SNN_NVHS0_TX2_P SNN_NVHS0_TX2_N
NVHS0_0_TX3 B15 C15 SNN_NVHS0_TX3_P SNN_NVHS0_TX3_N
NVHS0_1_TX0 A14 B14 SNN_NVHS0_TX4_P SNN_NVHS0_TX4_N
NVHS0_1_TX1 B13 C13 SNN_NVHS0_TX5_P SNN_NVHS0_TX5_N
NVHS0_1_TX2 A12 B12 SNN_NVHS0_TX6_P SNN_NVHS0_TX6_N
NVHS0_1_TX3 B11 C11 SNN_NVHS0_TX7_P SNN_NVHS0_TX7_N
NVHS_REFCLK H5 G5 SNN_NVHS_REFCLK_A_P SNN_NVHS_REFCLK_A_N
EXT_REFCLK_SLI BR8 SNN_EXT_REFCLKA
SNN_NVHS00_TERMP G1 NVHS_TERMP
G1 GA102-200-KA-A1 BGA3328 CHANGED
14/29 NVHS1
PEX_DVDD
T14 U14 NVHS_CVDD
SHARE CAP WITH NVHS_DVDD
NVHS0_2_RX0 F8 G8 SNN_NVHS1_RX0_P SNN_NVHS1_RX0_N
NVHS0_2_RX1 H9 G9 SNN_NVHS1_RX1_P SNN_NVHS1_RX1_N
NVHS0_2_RX2 F6 G6 SNN_NVHS1_RX2_P SNN_NVHS1_RX2_N
NVHS0_2_RX3 G7 H7 SNN_NVHS1_RX3_P SNN_NVHS1_RX3_N
NVHS0_3_RX0 F2 G2 SNN_NVHS1_RX4_P SNN_NVHS1_RX4_N
NVHS0_3_RX1 F1 E1 SNN_NVHS1_RX5_P SNN_NVHS1_RX5_N
NVHS0_3_RX2 F4 G4 SNN_NVHS1_RX6_P SNN_NVHS1_RX6_N
NVHS0_3_RX3 G3 H3 SNN_NVHS1_RX7_P SNN_NVHS1_RX7_N
NVHS0_2_TX0 A10 B10 SNN_NVHS1_TX0_P SNN_NVHS1_TX0_N
NVHS0_2_TX1 B9 C9 SNN_NVHS1_TX1_P SNN_NVHS1_TX1_N
NVHS0_2_TX2 A8 B8 SNN_NVHS1_TX2_P SNN_NVHS1_TX2_N
NVHS0_2_TX3 B7 C7 SNN_NVHS1_TX3_P SNN_NVHS1_TX3_N
NVHS0_3_TX0 A6 B6 SNN_NVHS1_TX4_P SNN_NVHS1_TX4_N
NVHS0_3_TX1 B5 C5 SNN_NVHS1_TX5_P SNN_NVHS1_TX5_N
NVHS0_3_TX2 B4 B3 SNN_NVHS1_TX6_P SNN_NVHS1_TX6_N
NVHS0_3_TX3 C3 C2 SNN_NVHS1_TX7_P SNN_NVHS1_TX7_N

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	NVHS x16

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NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	25 OF 79
BOM REV	C	DATE	15-JUN-2020

MISC1: Fan, Thermal, JTAG, GPIO, STEREO

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	MISC: THERMAL, JTAG, GPIO

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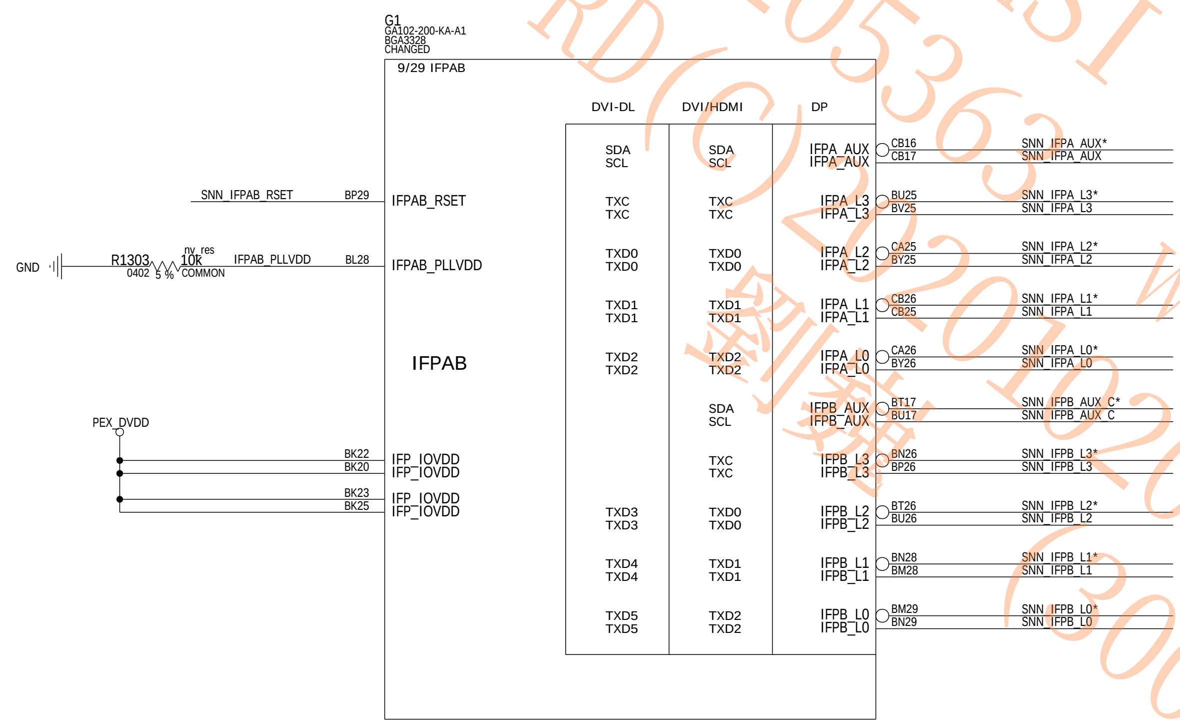
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	26 OF 79
BOM REV	C	DATE	15-JUN-2020

IFPA UNUSED, IFPB UNUSED



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	IFPA UNUSED, IFPB UNUSED

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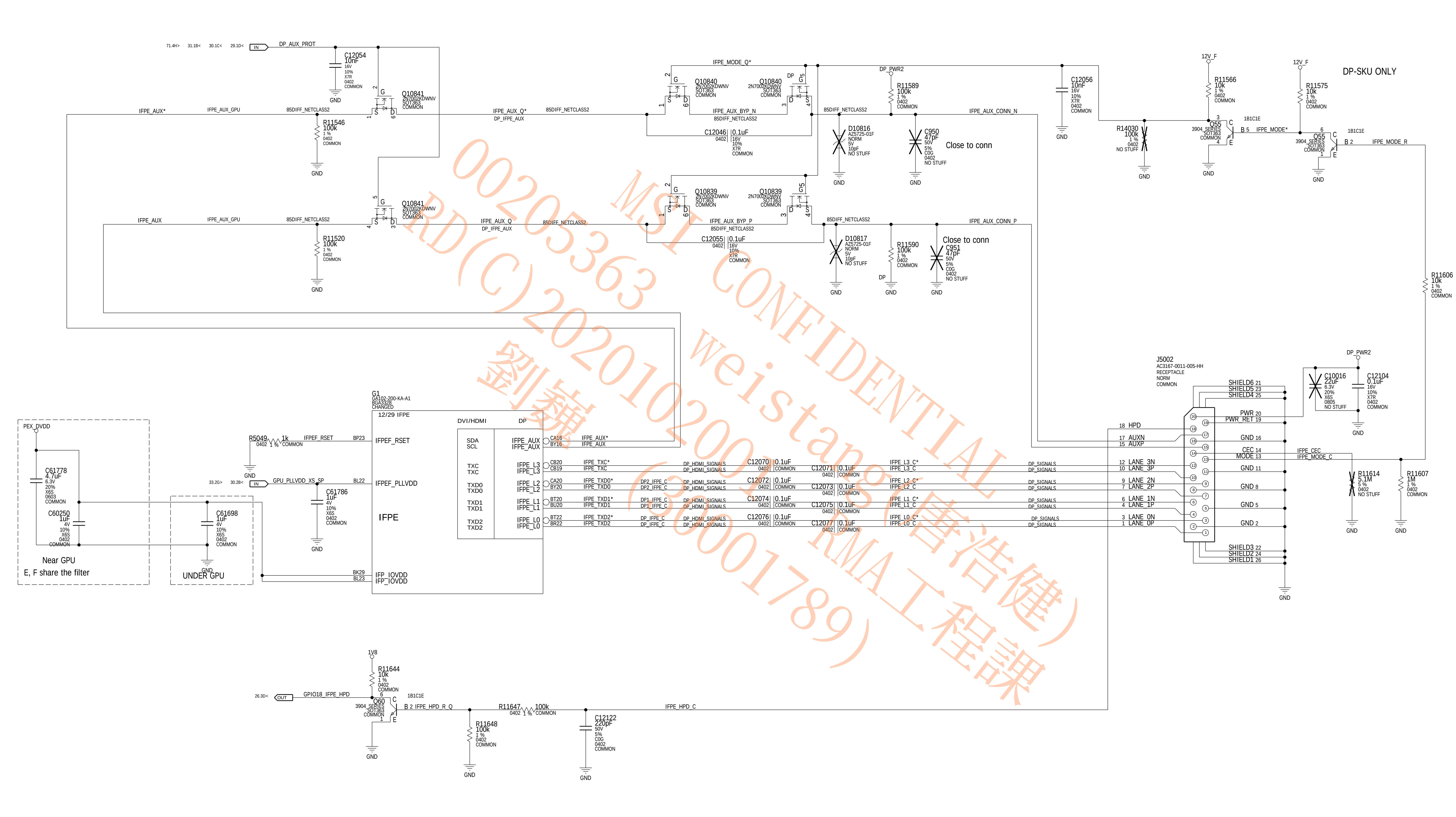
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	27 OF 79
BOM REV	C	DATE	15-JUN-2020

IFPE DP



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	IFPE DP

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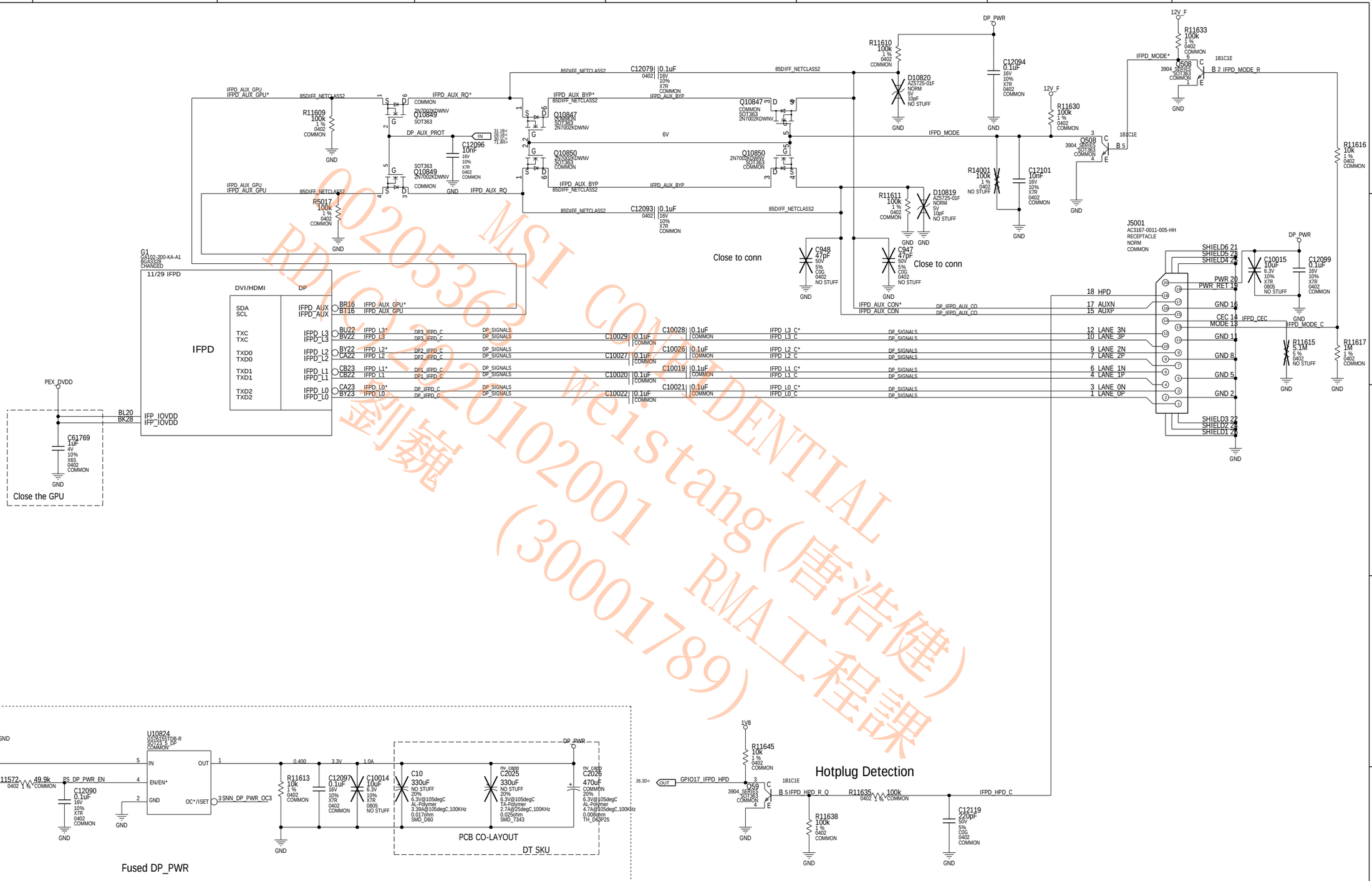
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	28 OF 79
BOM REV	C	DATE	15-JUN-2020

IFPD DP



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	IFPD DP

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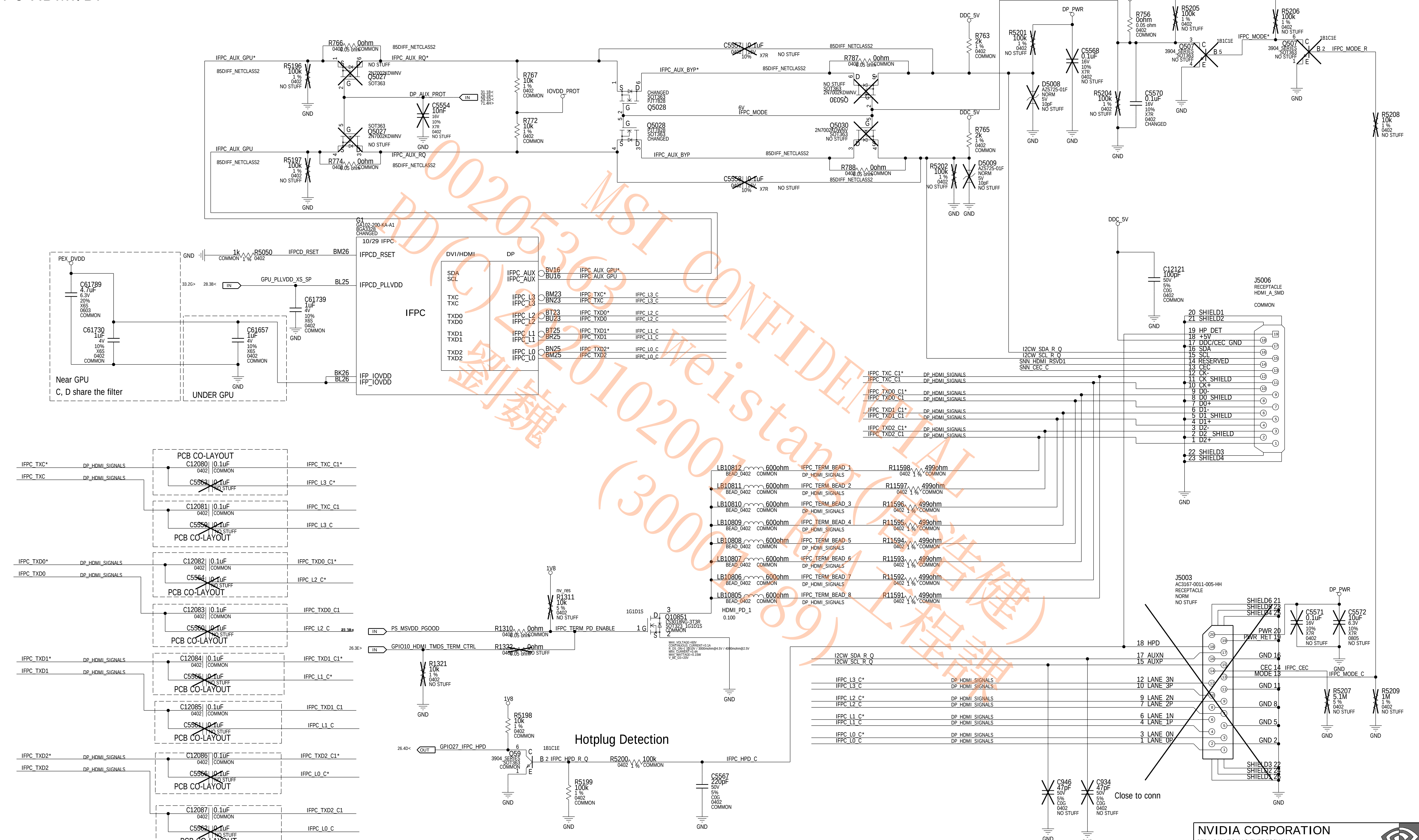
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	29 OF 79
BOM REV	C	DATE	15-JUN-2020

IFPC HDMI/DP



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	IFPC HDMI/DP

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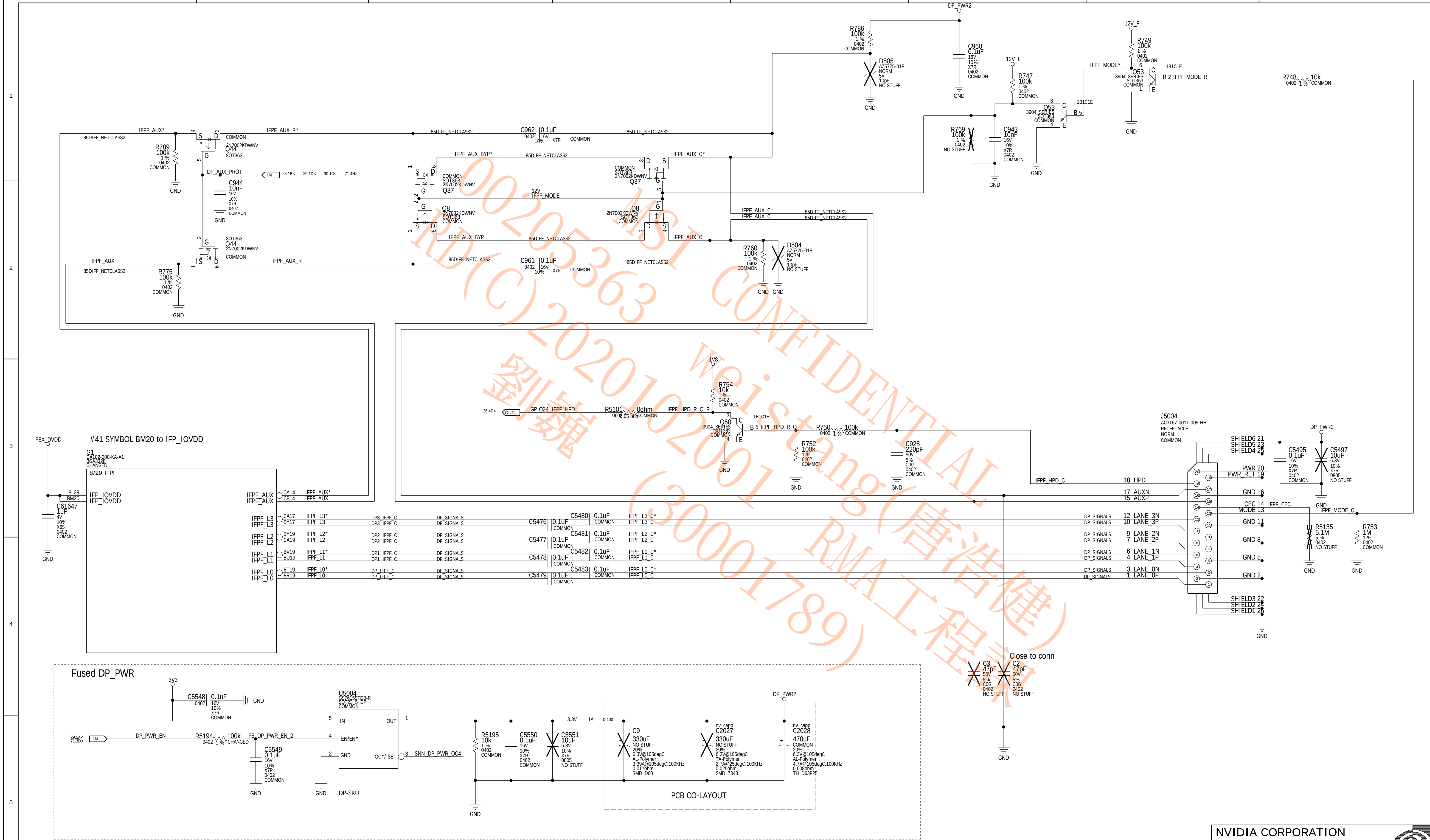
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	30 OF 79
BOM REV	C	DATE	15-JUN-2020



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	IFPF DP

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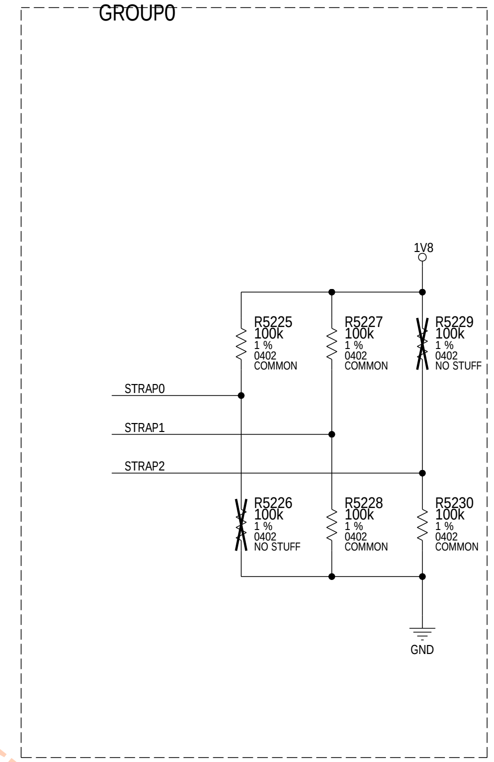
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	31 OF 79
BOM REV	C	DATE	15-JUN-2020

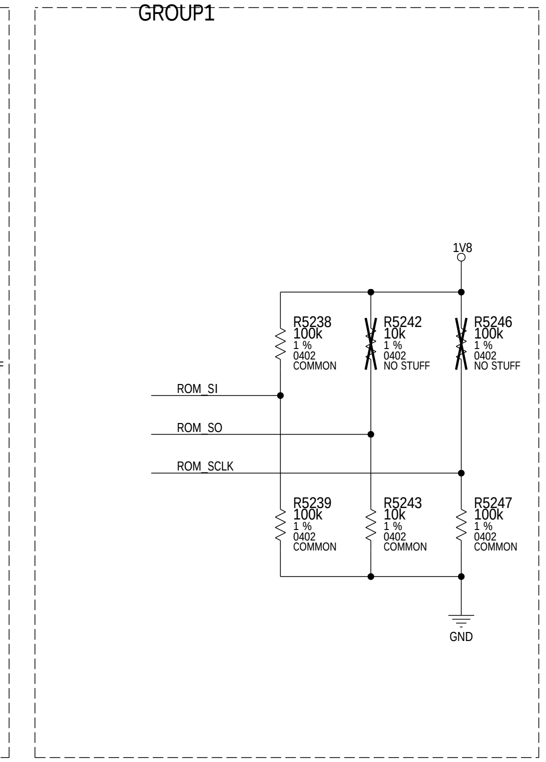
MISC: ROM, Straps

H=High :Tied to 1.8V
M=Middle:Tied to 0.9V
L=Low :Tied to 0V

GROUP0

STRAP2	STRAP1	STRAP0	RAMCFG[4:0]		
L	L	L	00000	RAMCFG MICRON 8Gb G6X 19Gbps x16 (161-0430-900)	<-A01 PCB
H	L	L	00100	RAMCFG MICRON 8Gb G6X 19Gbps x8 (161-0430-900)	
H	L	H	00101	RAMCFG MICRON 8Gb G6X 21Gbps x8 (161-0431-900)	
L	L	M	01000	RAMCFG MICRON 8Gb G6X 20Gbps x16 (161-0424-900)	
L	L	H	00001	RAMCFG MICRON 8Gb G6X 21Gbps x16 (161-0431-900)	<-OLD
L	M	H	01010	RAMCFG MICRON 8Gb G6X 19Gbps x16 (161-0430-900)	<-LATEST A02 PCB





ROM_SO	ROM_SI	ROM_SCLK	SMARTFAN[2:0],FS_OVERT	1:ENABLE 0:DISABLE	
H	H	H	0111	FS_OVERT ENABLE	DEFAULT
L	L	L	0000	FS_OVERT DISABLE	

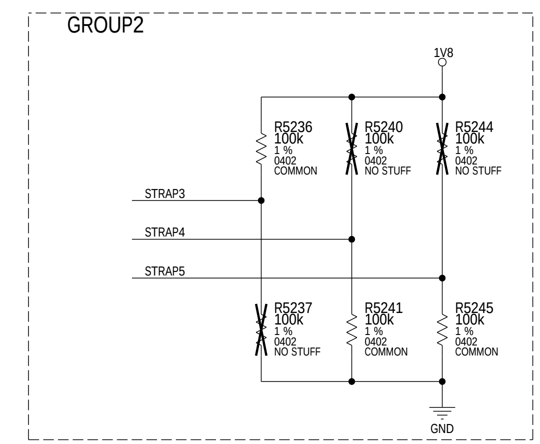
STRAP5	STRAP4	STRAP3	SMB_ALT_ADDR	DEVID_SEL	PCIE_CFG	VGA_DEVICE	
M	H	H	1	1	1	1	
M	H	L	1	1	1	0	
M	L	H	1	1	0	1	
M	L	L	1	1	0	0	
L	H	M	1	0	1	1	
L	M	H	1	0	1	0	
L	M	L	1	0	0	1	
L	L	M	1	0	0	0	
H	H	H	0	1	1	1	
H	H	L	0	1	1	0	
H	L	H	0	1	0	1	
H	L	L	0	1	0	0	
L	H	H	0	0	1	1	
L	H	L	0	0	1	0	
L	L	H	0	0	0	1	Default
L	L	L	0	0	0	0	

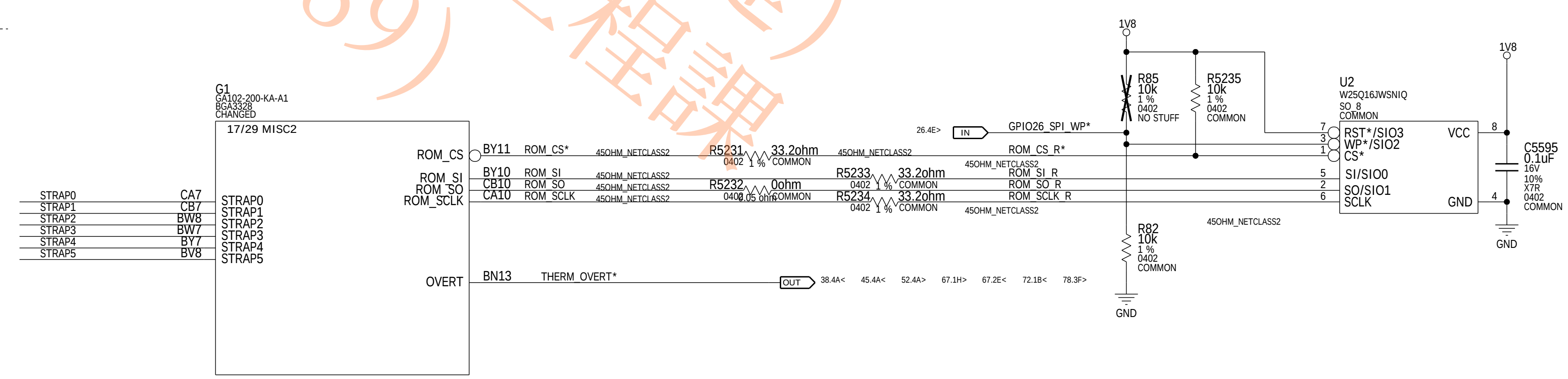
1:SMB_ALT_ADDR ENABLE
0:SMB_ALT_ADDR DISABLE

1:DEVID_SEL REBRAND
0:DEVID_SEL ORIGNAL

1:PCIE_CFG LOW POWER
0:PCIE_CFG HIGH POWER

1:VGA_DEVICE ENABLE
0:VGA_DEVICE DISABLE





ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL	
PAGE DETAIL	MISC. ROM, STRAPS	

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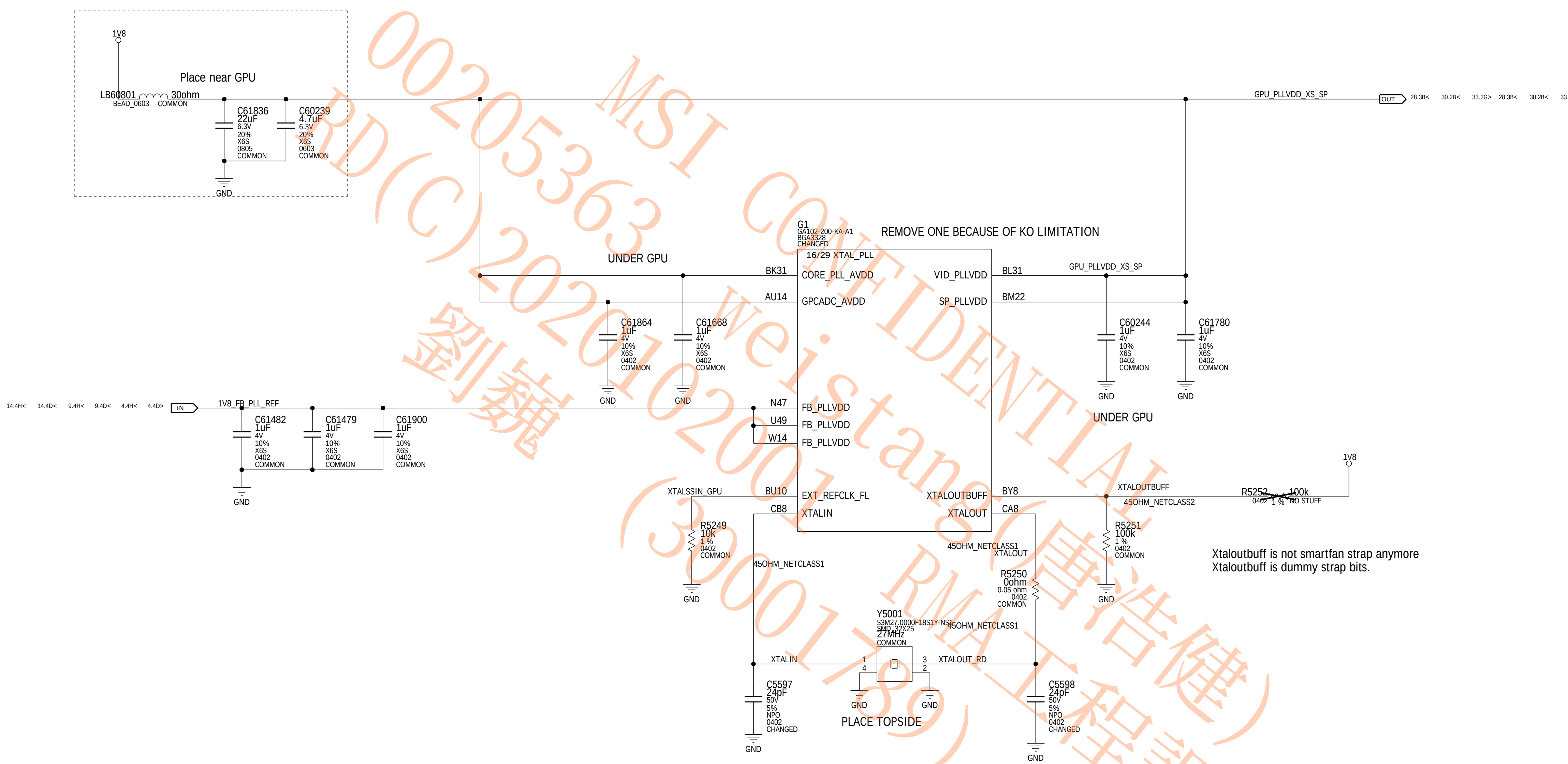
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	32 OF 79
BOM REV	C	DATE	15-JUN-2020

MISC: XTAL. PLL



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	MISC. XTAL, PLL

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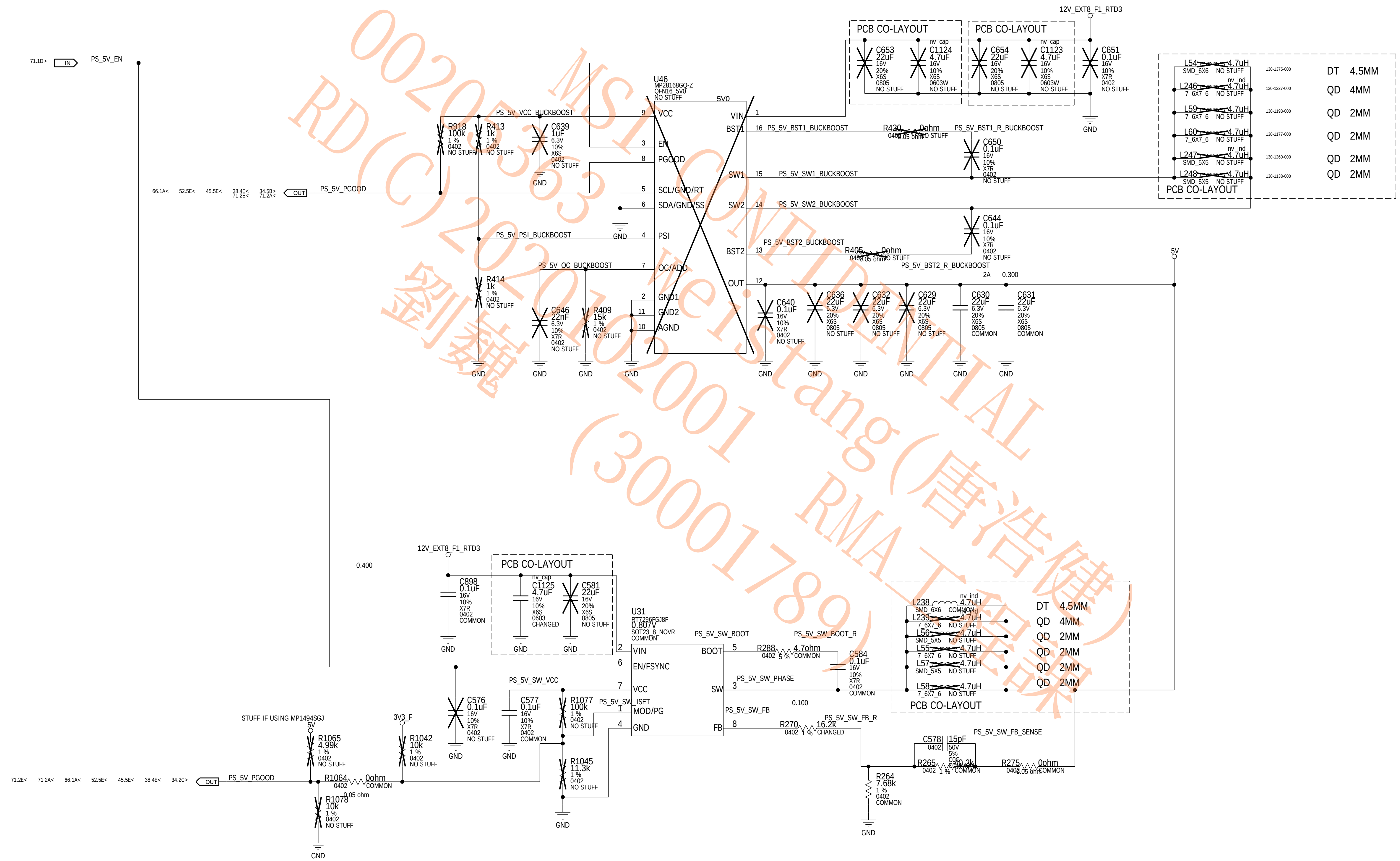
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	33 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: 5V, 5V_BACKUP



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: 5V

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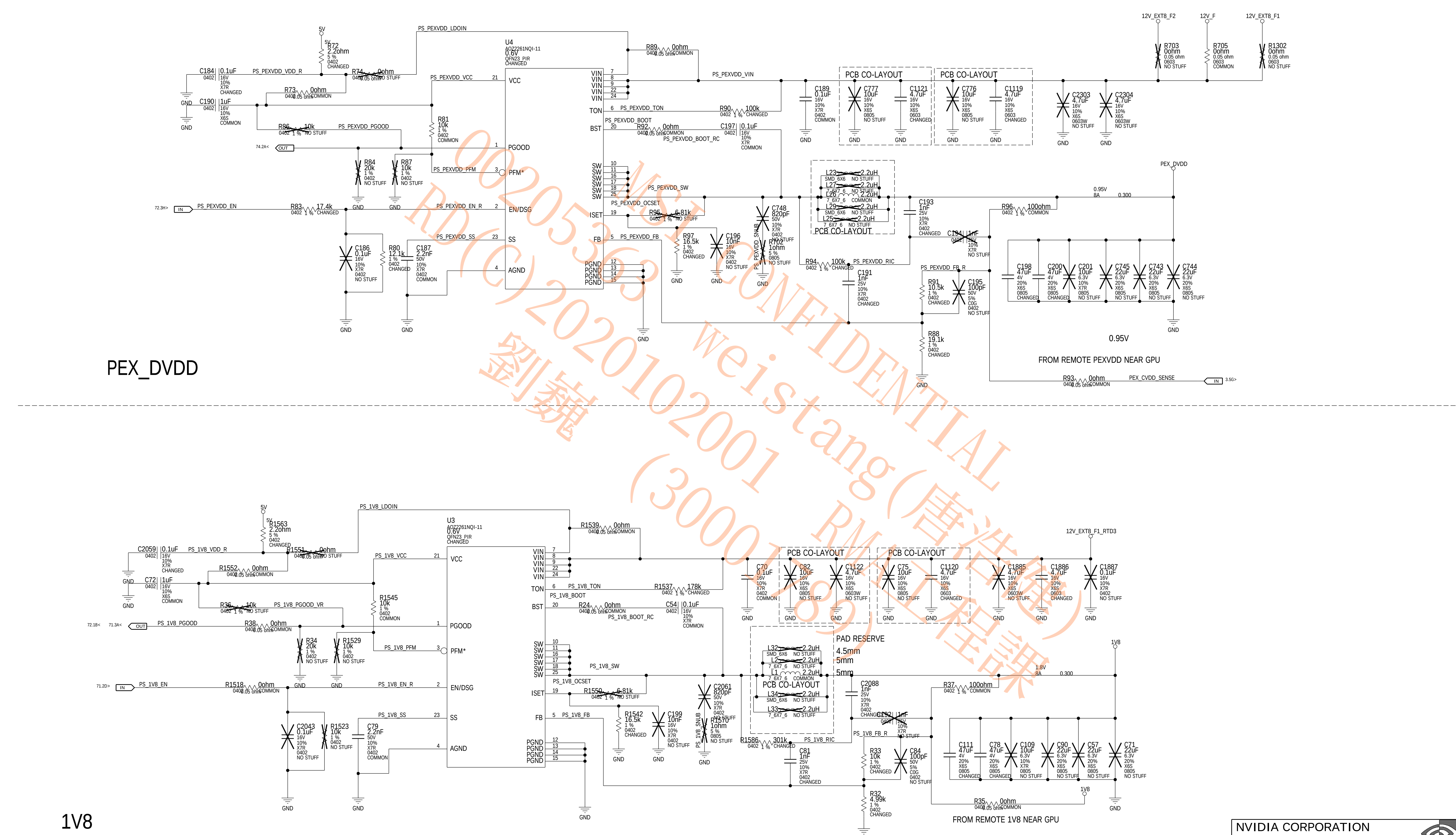
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	34 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: PEX_DVDD 1V8 Rail



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: PEX_DVDD and 1V8

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NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	35 OF 79
BOM REV	C	DATE	15-JUN-2020

BLANK

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	BLANK

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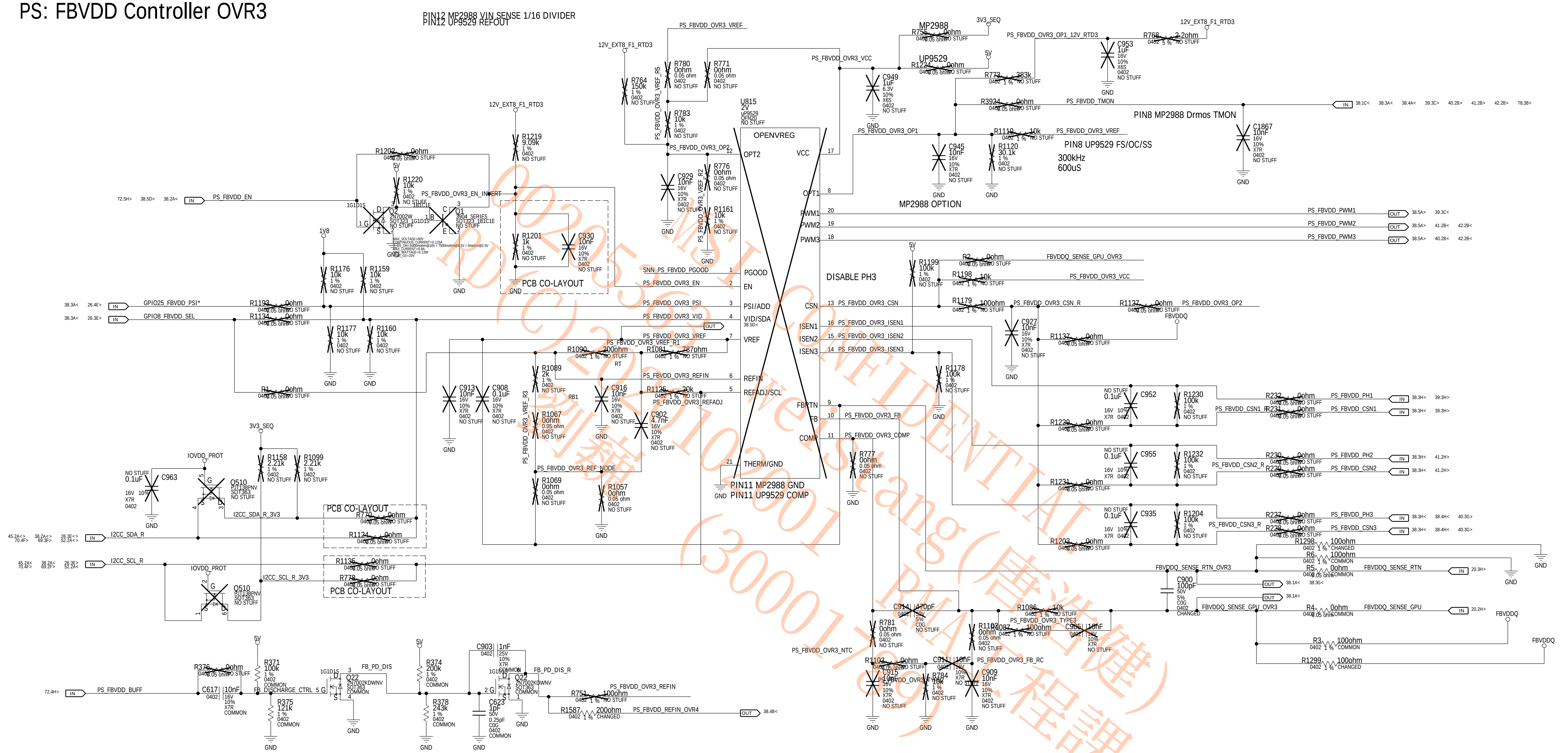
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	36 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: FBVDD Controller OVR3



FOR DT SKU

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL		
PAGE DETAIL	PS: FBVDD Controller OVR3		
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	37 OF 79
BOM REV	C	DATE	15-JUN-2020

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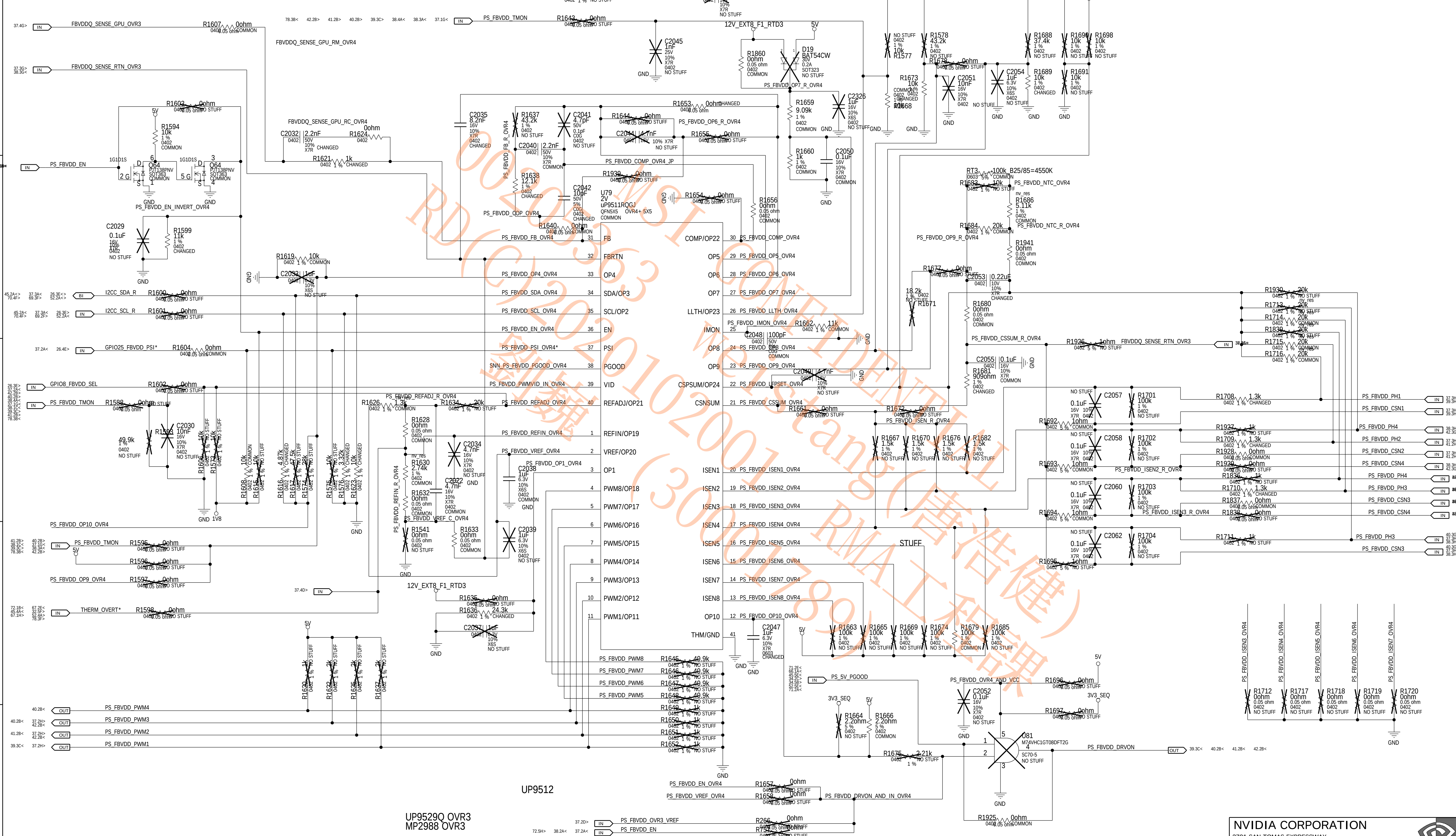
PS:FBVDDQ OVR4



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: FBVDDQ OVR4

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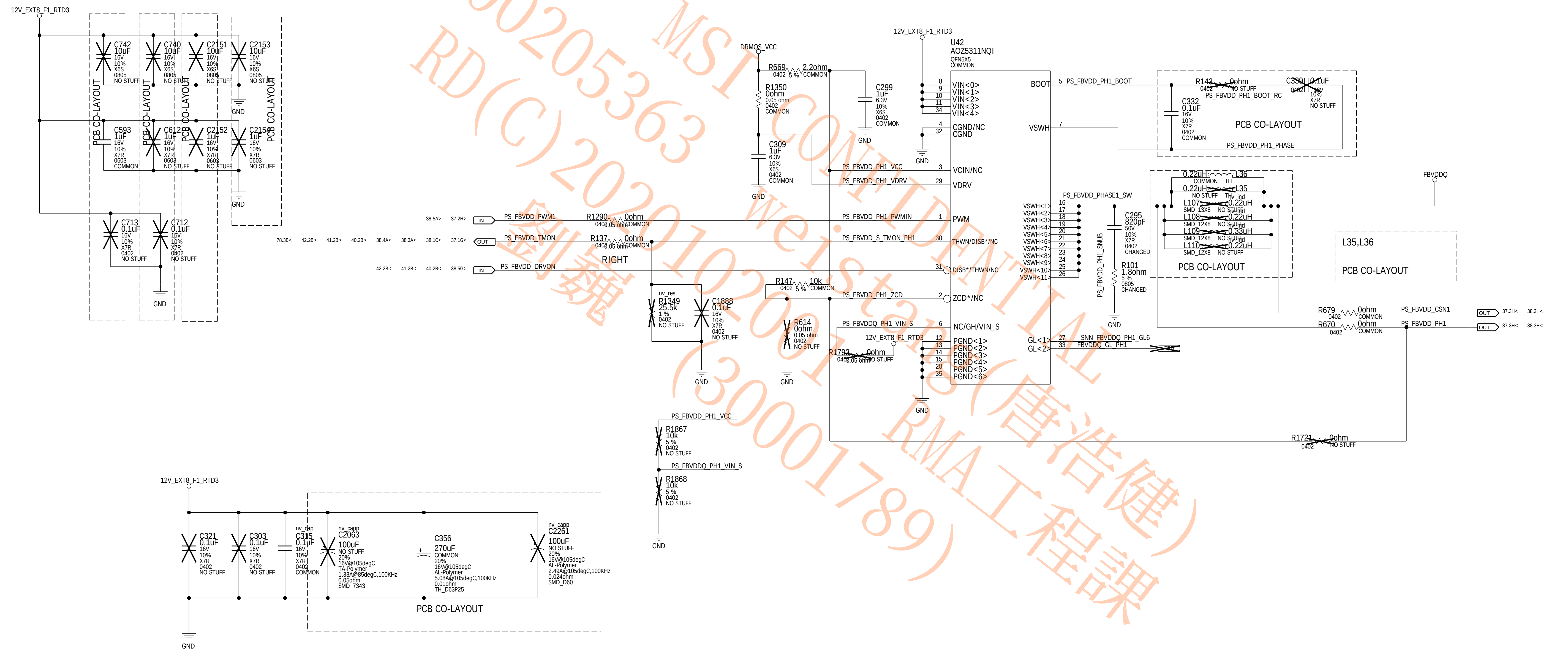
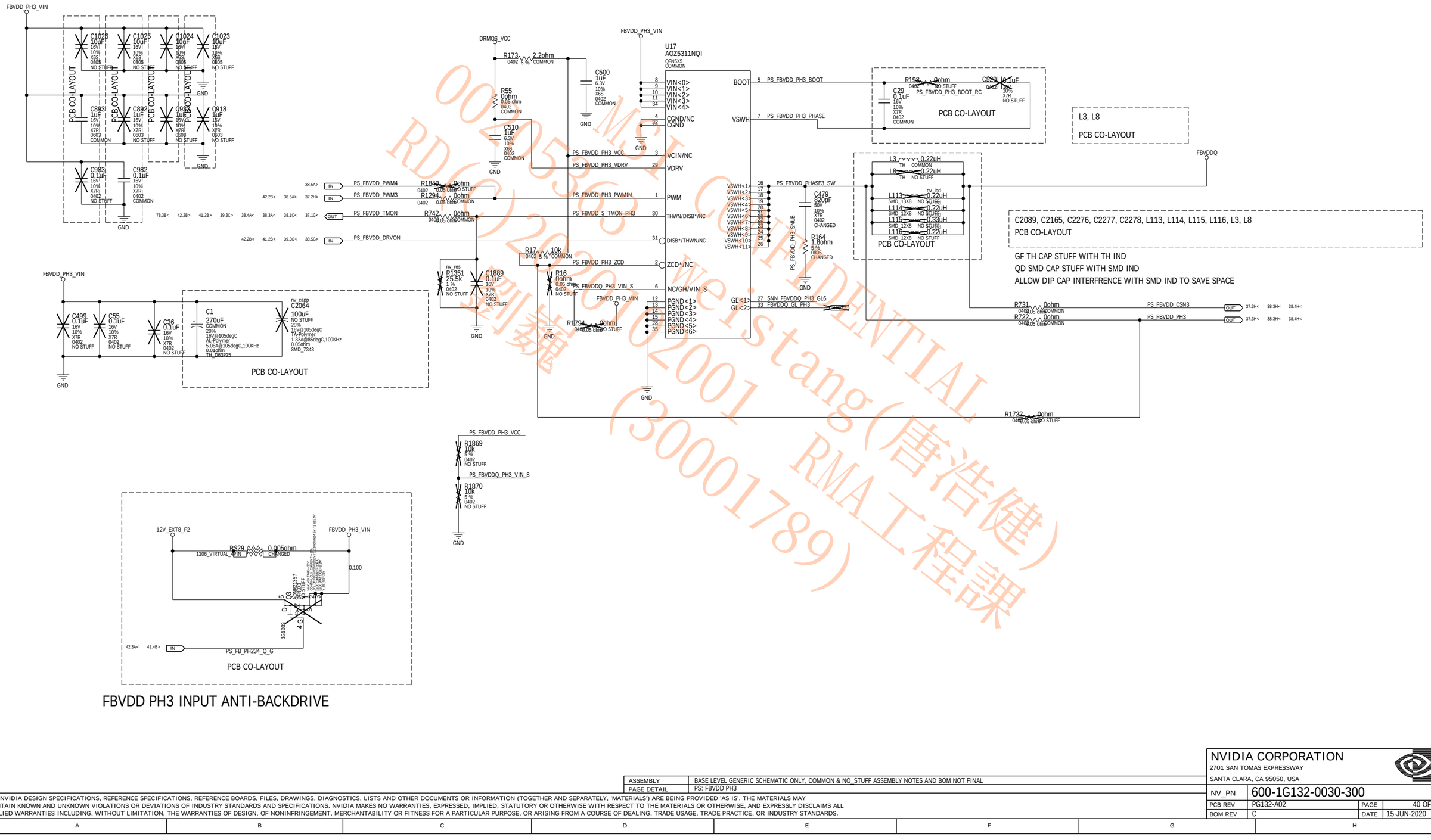
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	38 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: FBVDD PH1



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: FBVDD PH1

PS: FBVDD PH3



FBVDD PH3 INPUT ANTI-BACKDRIVE

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: FBVDD PH3

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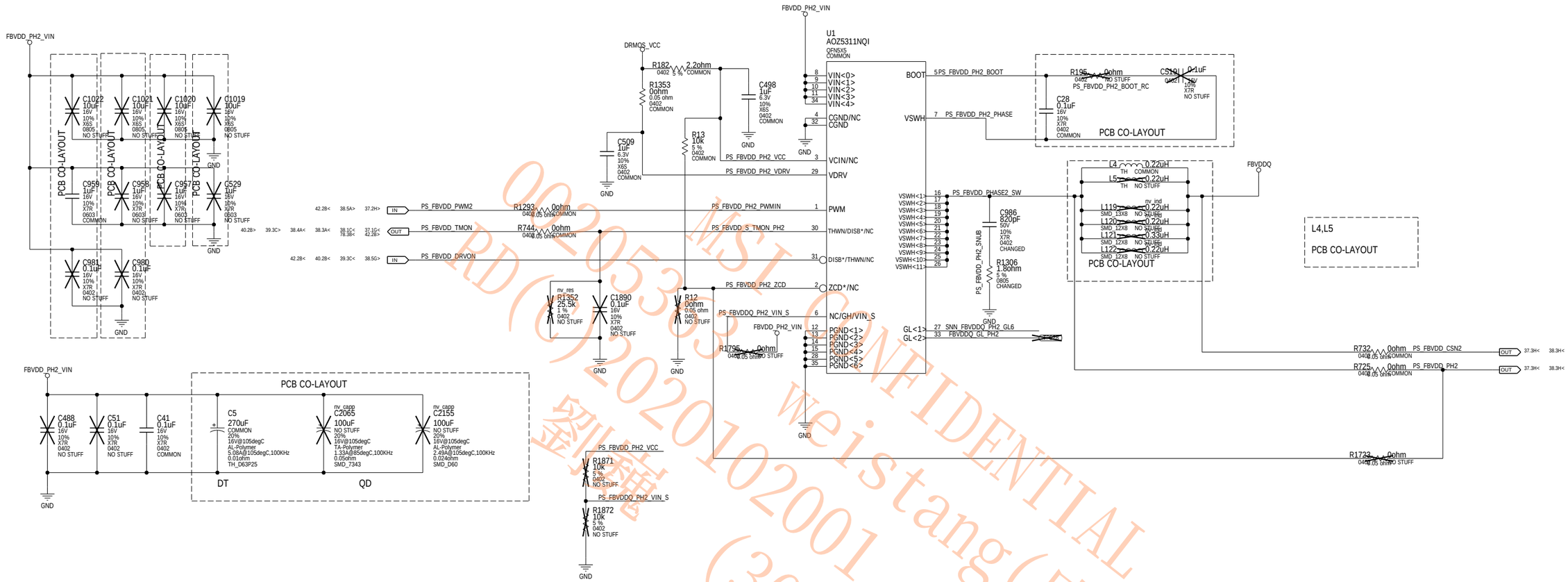
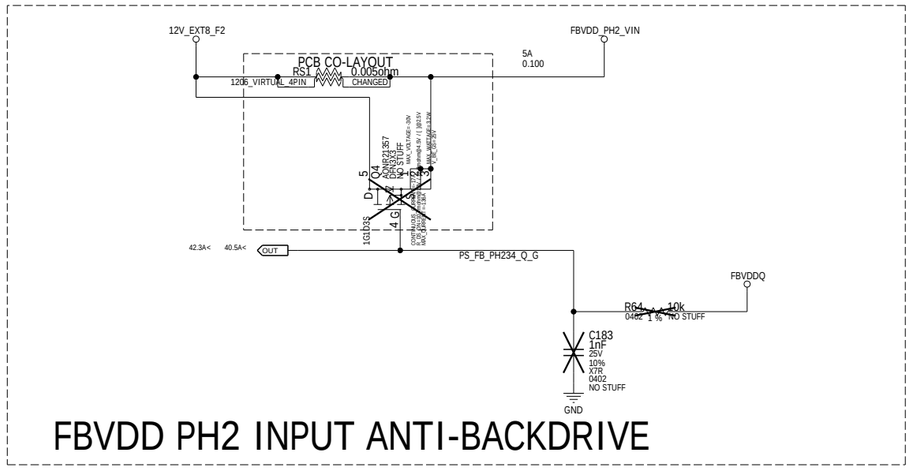
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	40 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: FBVDD PH2





FBVDD PH2 INPUT ANTI-BACKDRIVE

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: FBVDD PH2

NVIDIA CORPORATION
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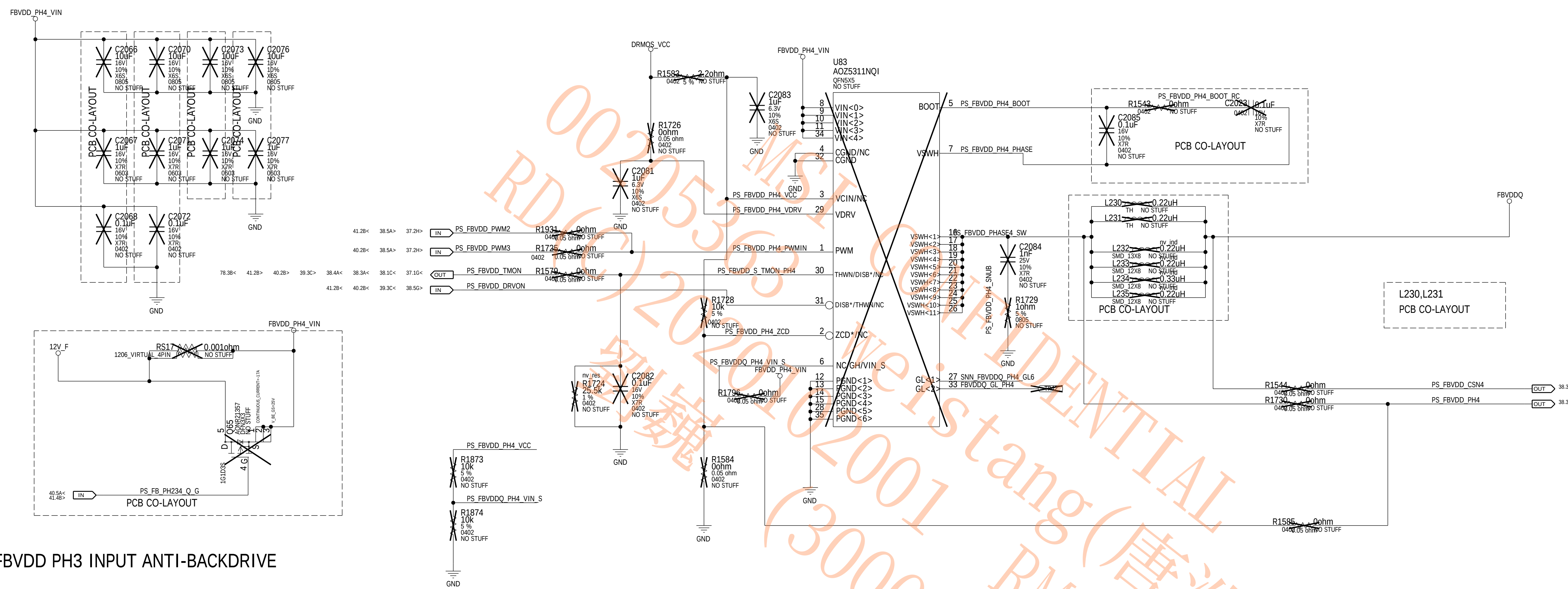
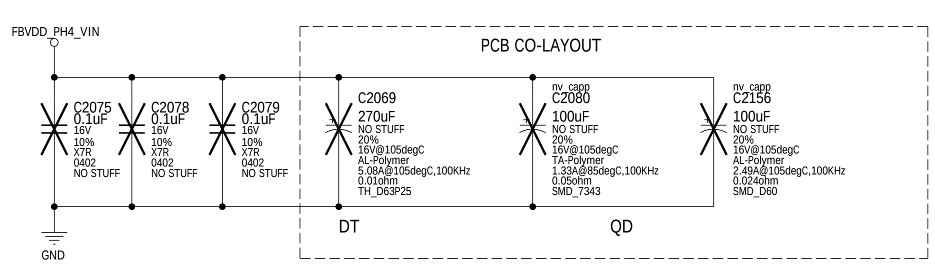
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	41 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: FBVDD PH4



FBVDD PH3 INPUT ANTI-BACKDRIVE



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: FBVDD PH4

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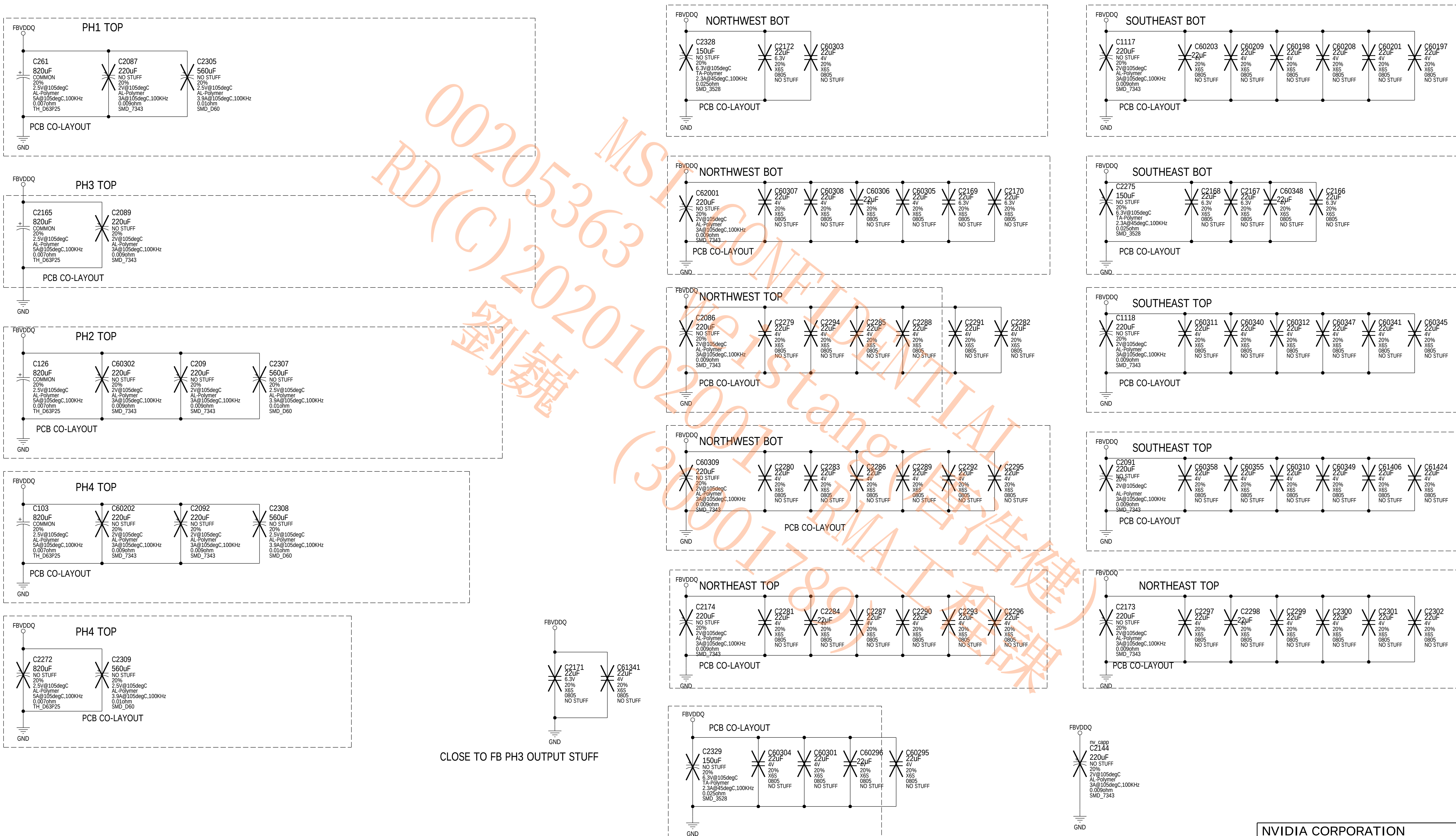
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	42 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: FBVDD OUTPUT CAP

3x 820uF TH FBVDD OUTPUT BULK CAPS



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: FBVDD OUTPUT CAP

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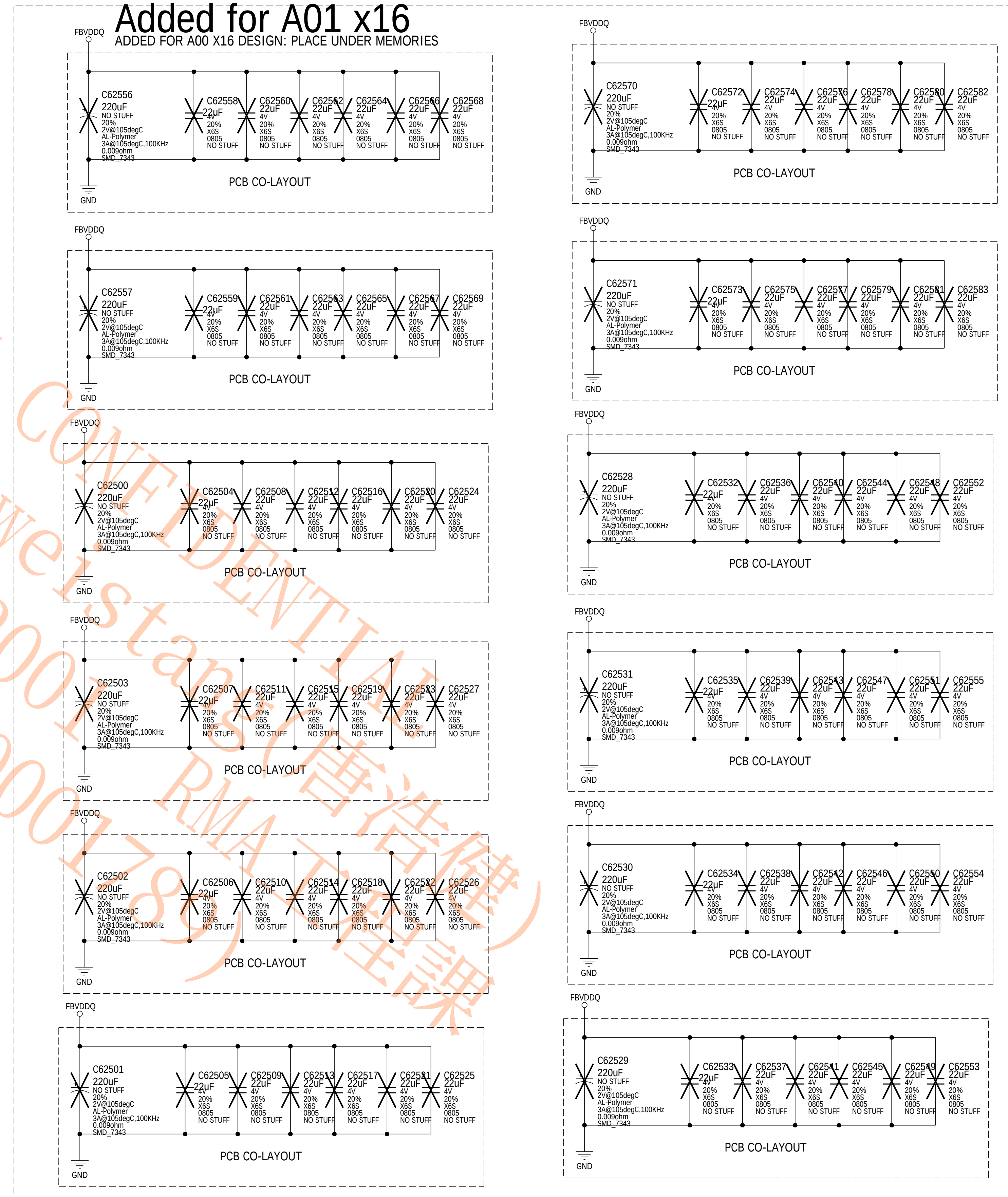
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	43 OF 79
BOM REV	C	DATE	15-JUN-2020



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: FBVDD_OUTPUT_CAP_NEAR_MEMORY

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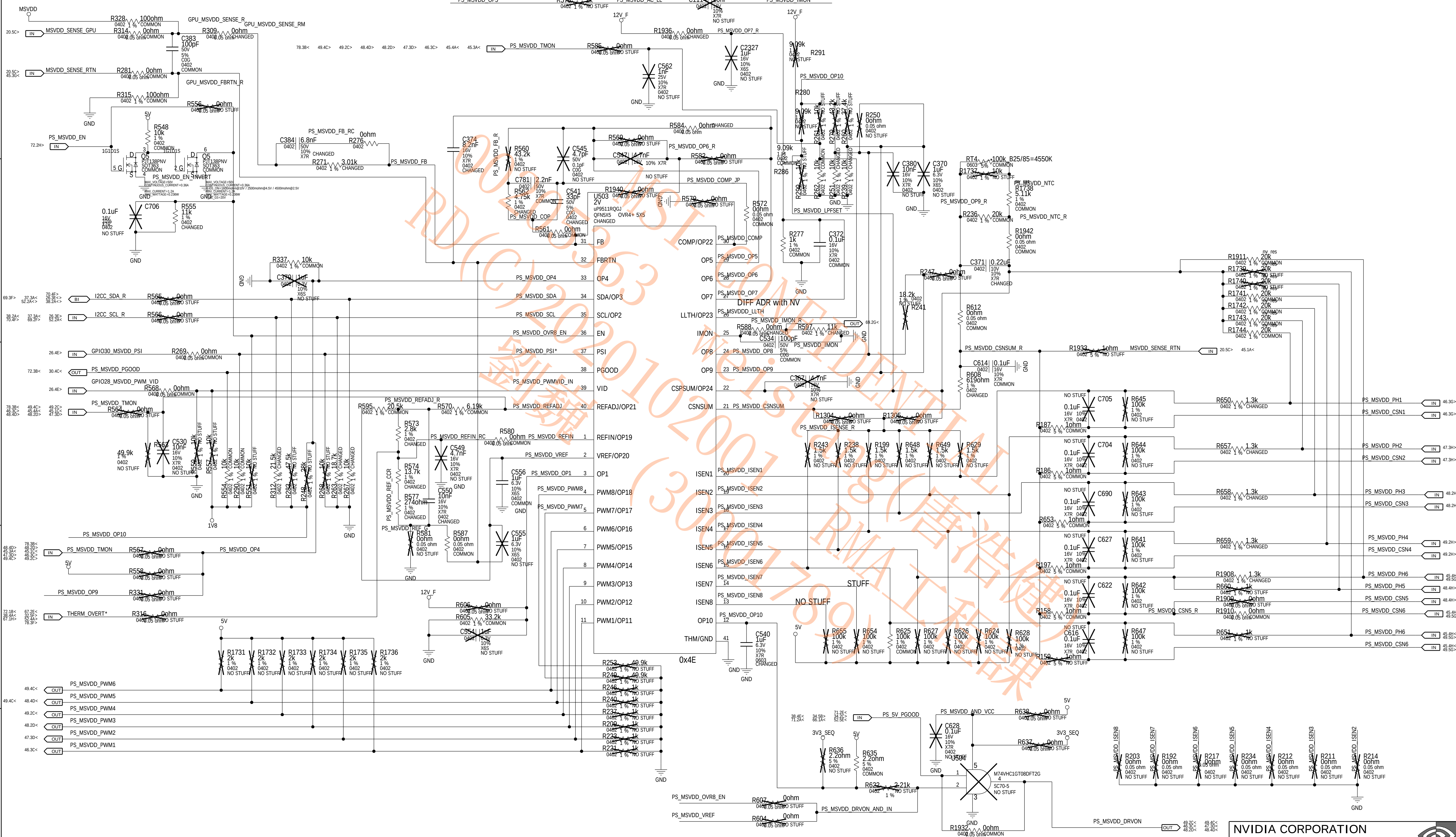
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	44 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: MSVDD



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: MSVDD CONTROLLER

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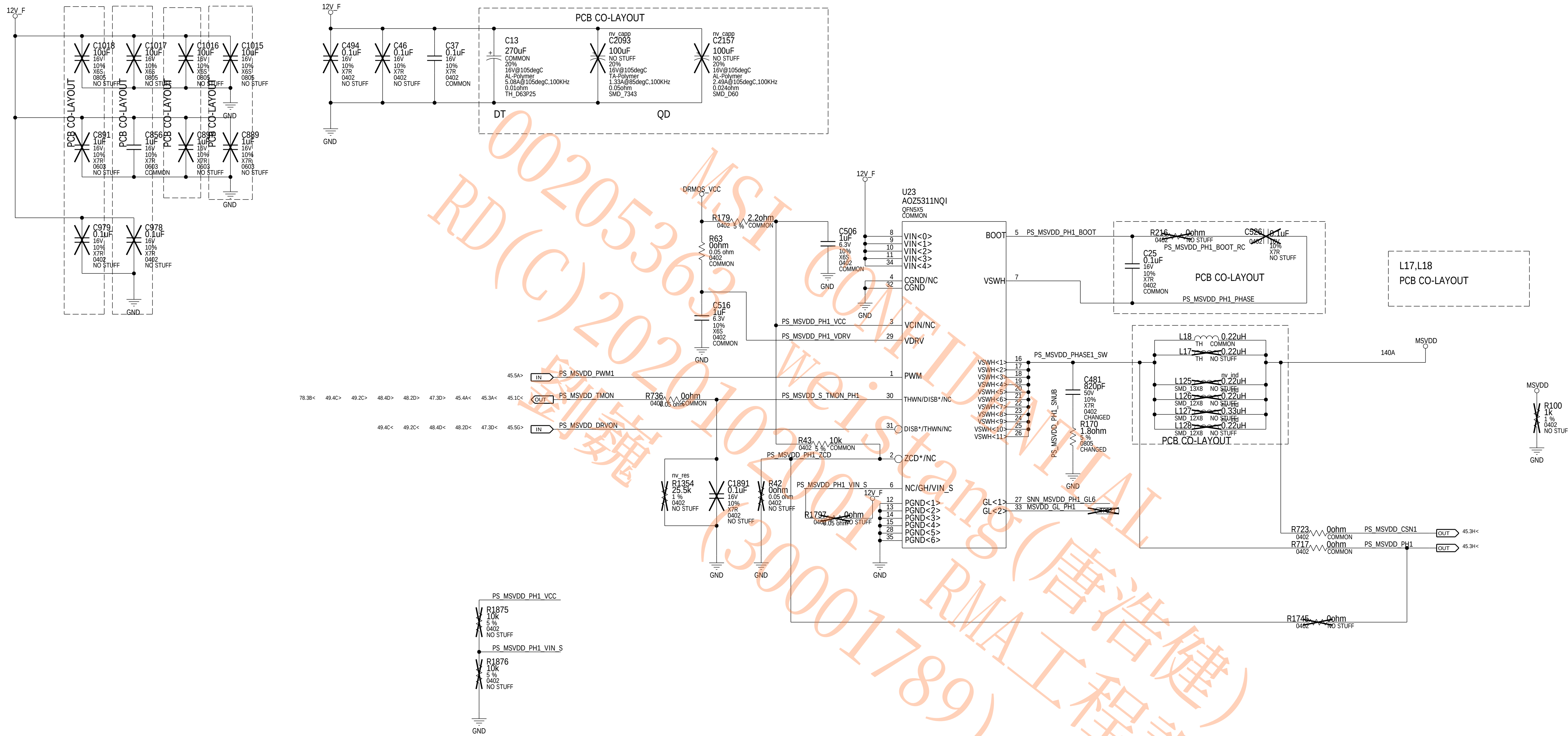
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	45 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: MSVDD Phase 1



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: MSVDD PH1

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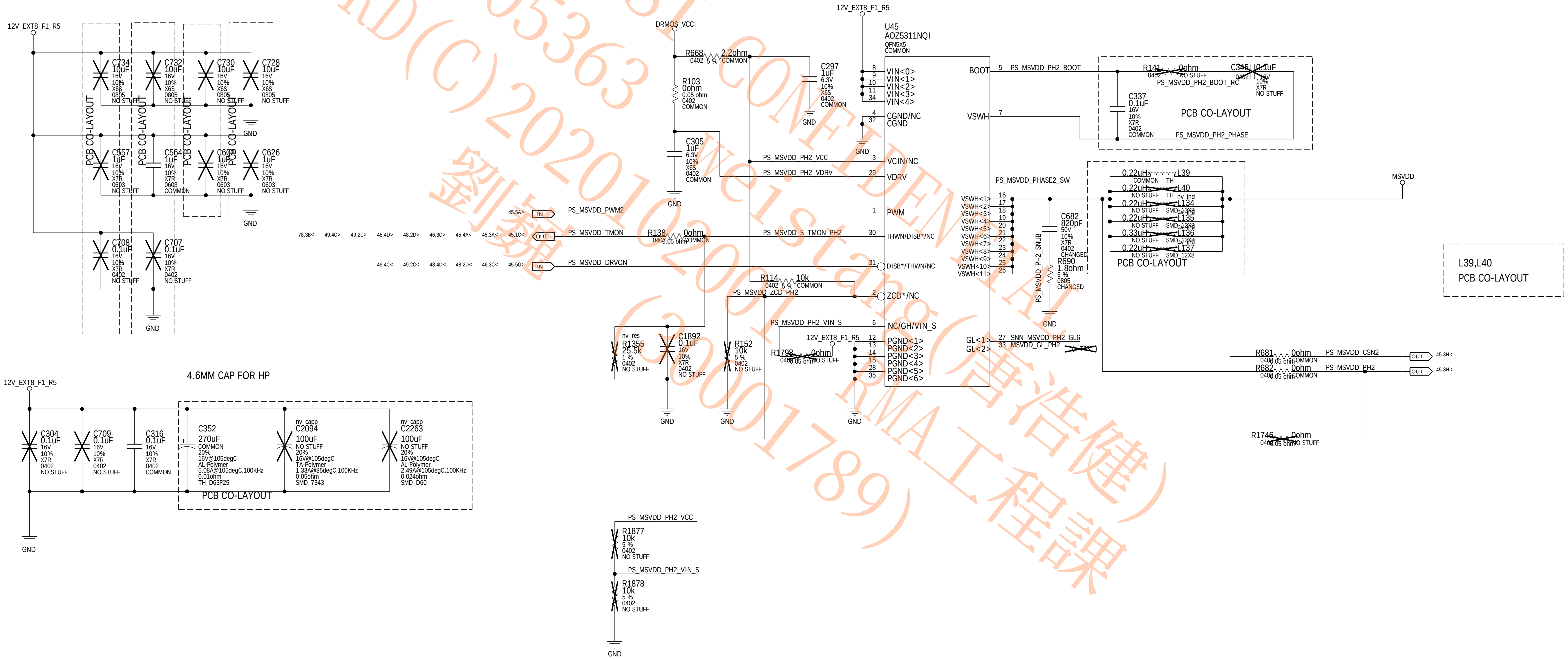
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	46 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: MSVDD PH 2



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: MSVDD PH2

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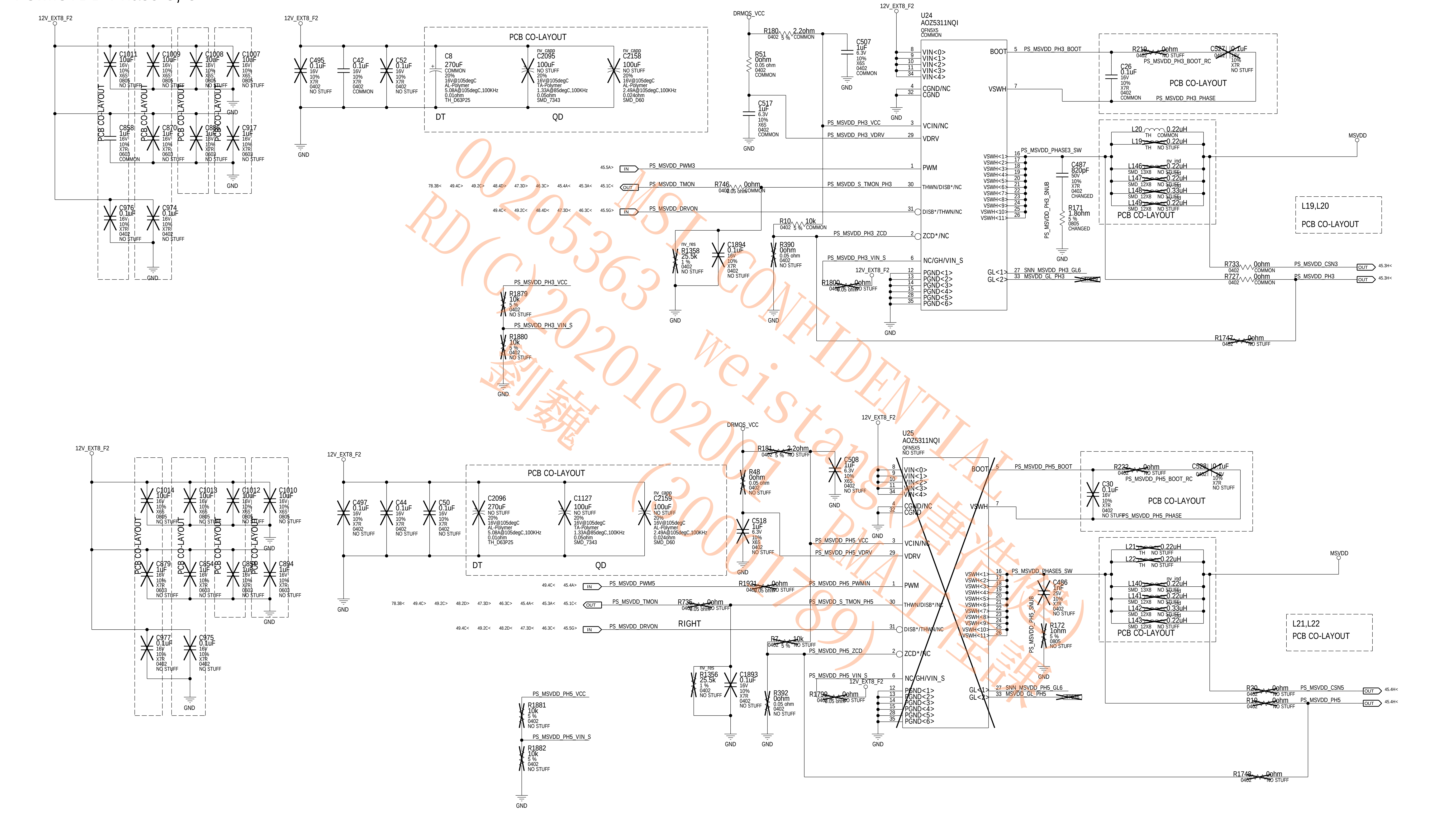
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	47 OF 79
BOM REV	C	DATE	15-JUN-2020

PS:MSVDD Phase 3, 5



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: MSVDD PH3 and PH5

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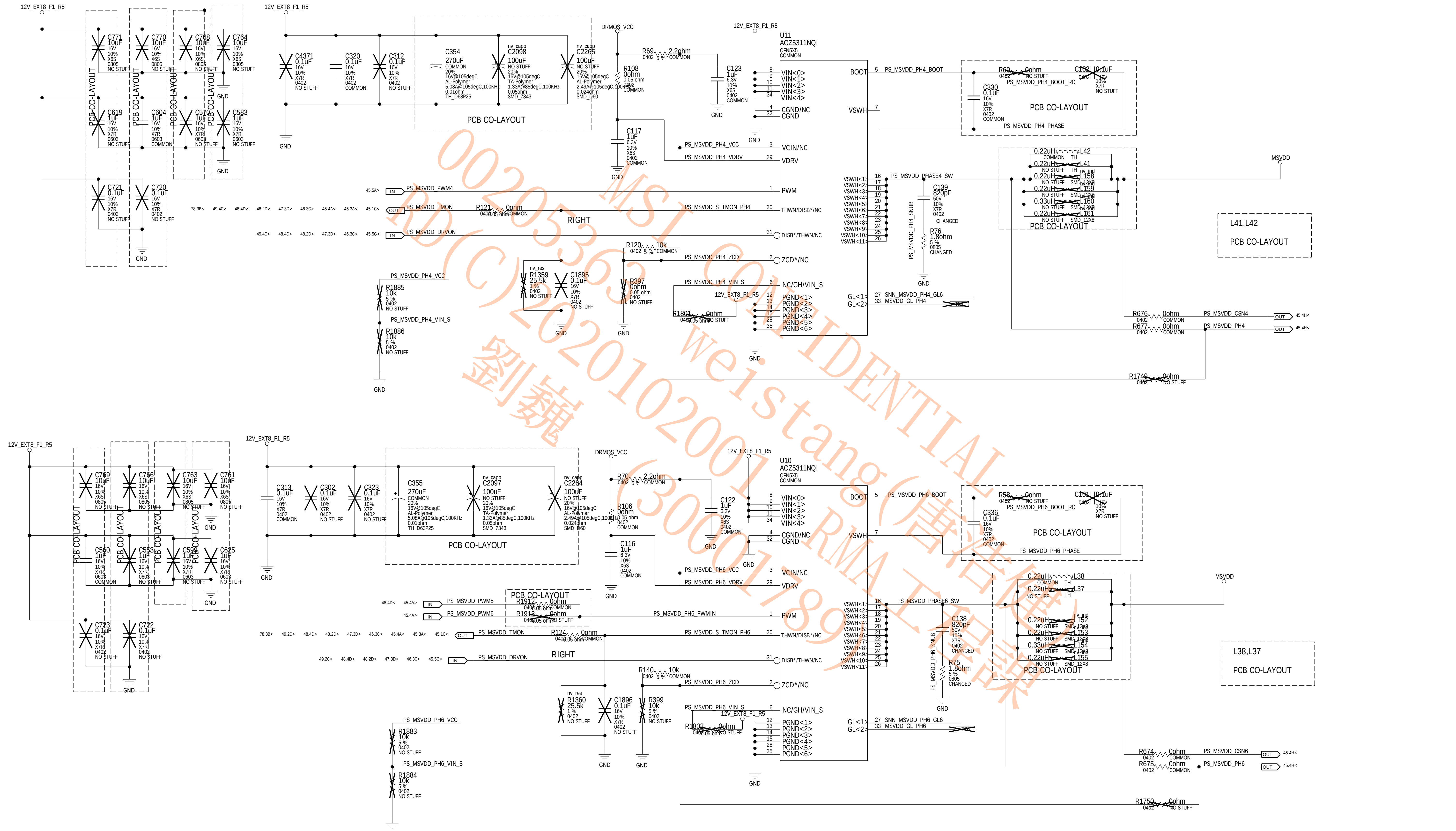
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	48 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: MSVDD PH 4,6



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: MSVDD PH4 and PH6

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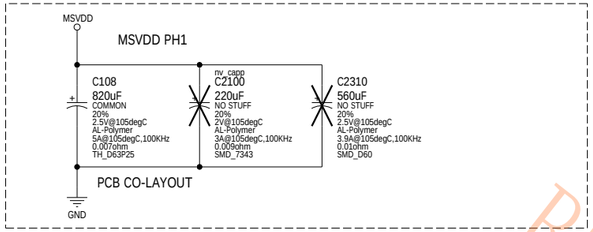
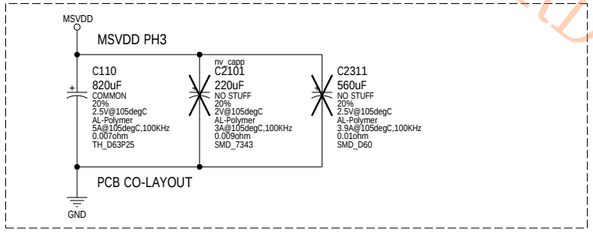
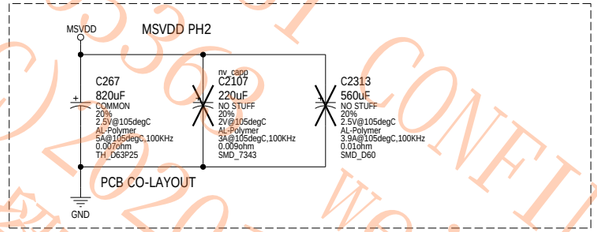
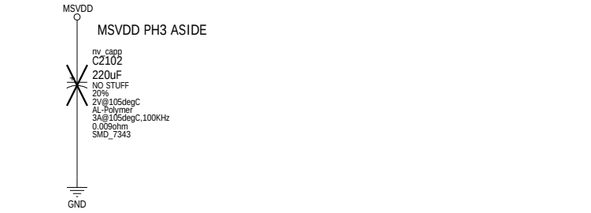
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	49 OF 79
BOM REV	C	DATE	15-JUN-2020

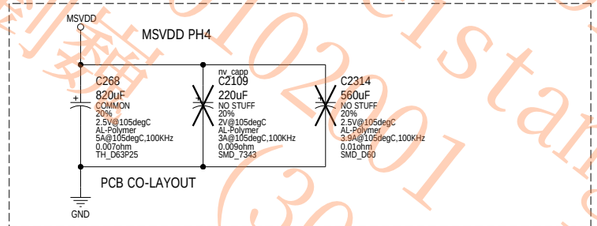
PS:MSVDD OUTPUT CAP (TOP)

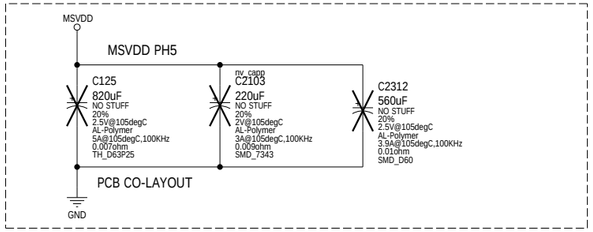


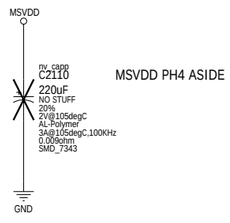


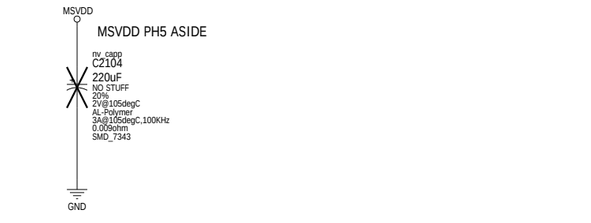


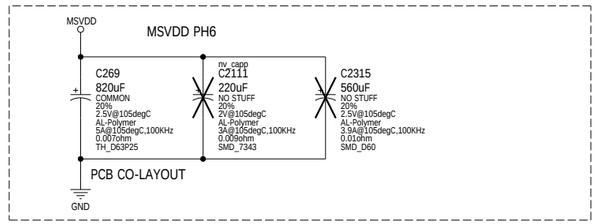


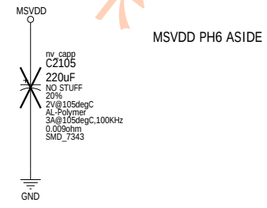












ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: MSVDD OUTPUT CAP(TOP)

NVIDIA CORPORATION
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NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	50 OF 79
BOM REV	C	DATE	15-JUN-2020

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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	BLANK

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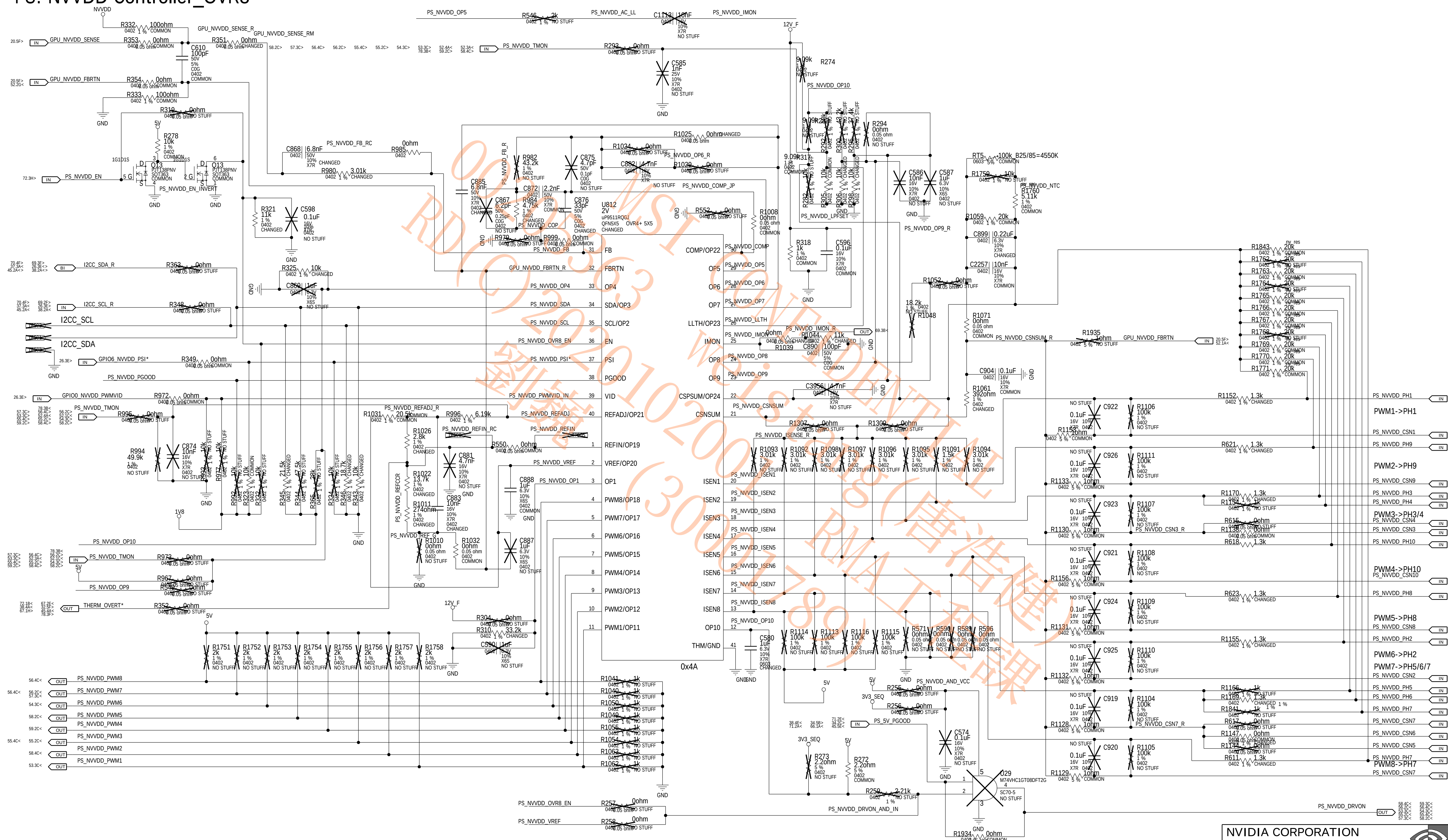
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	51 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: NVVDD Controller_OVR8



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: NVVDD Controller_OVR8

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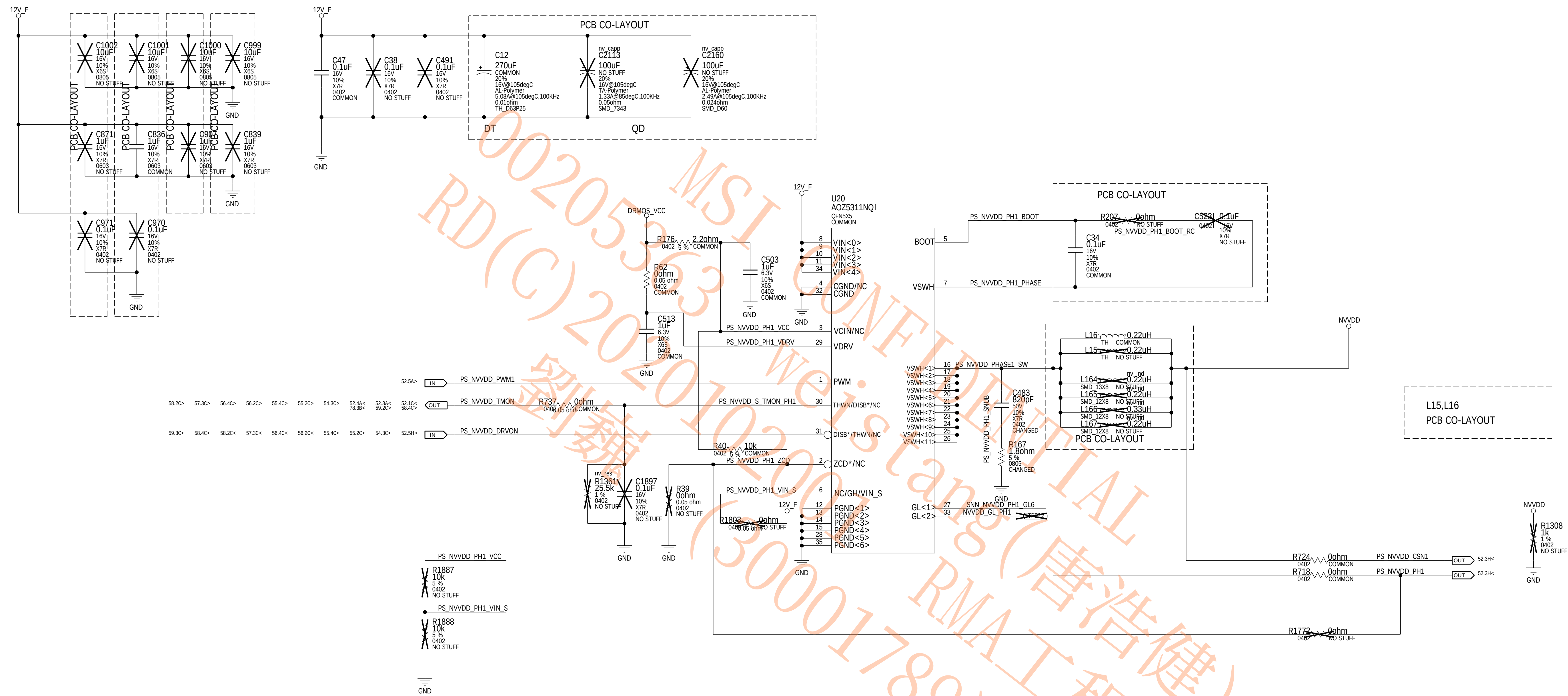
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	52 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: NVVDD Phase 1



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: NVVDD PH1 (PWM1)

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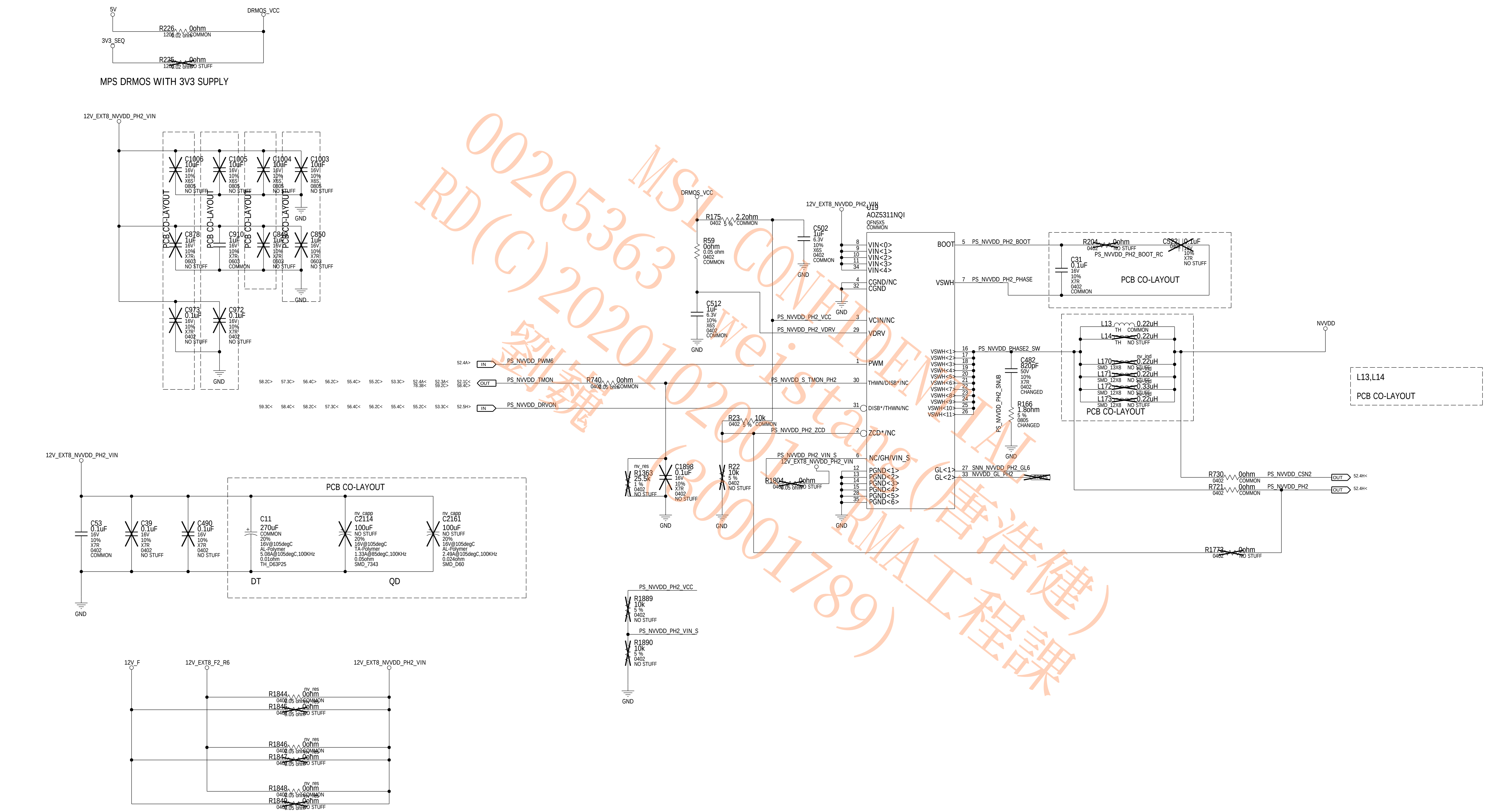
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	53 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: NVVDD Phase 2



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PAGE DETAIL	PS: NVVDD PH2(PWM6)

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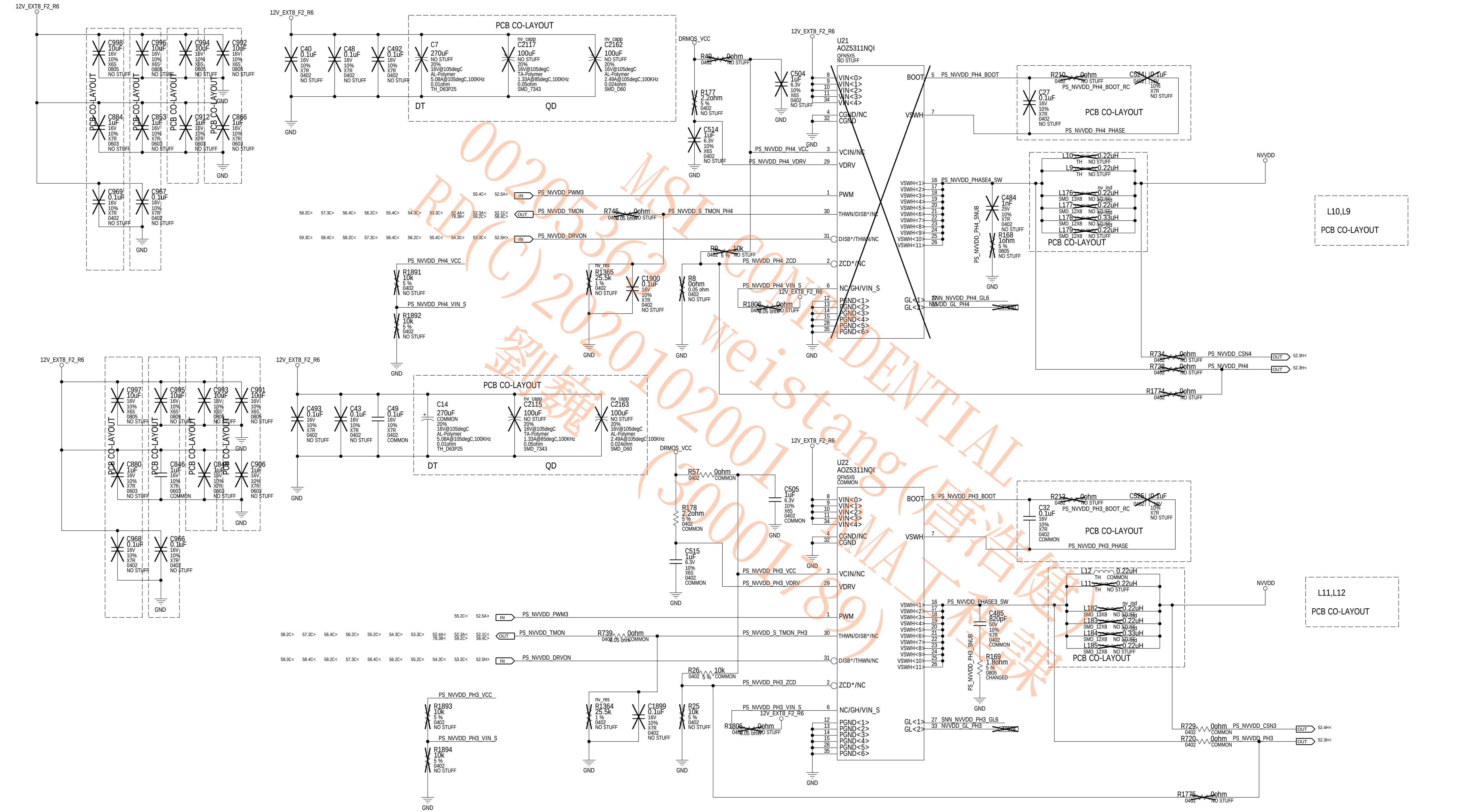
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	54 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: NVVDD Phase 3 (PWM6), PHASE 4(PWM2)



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: NVVDD PH3 (PWM3) and PH4 (PWM3)

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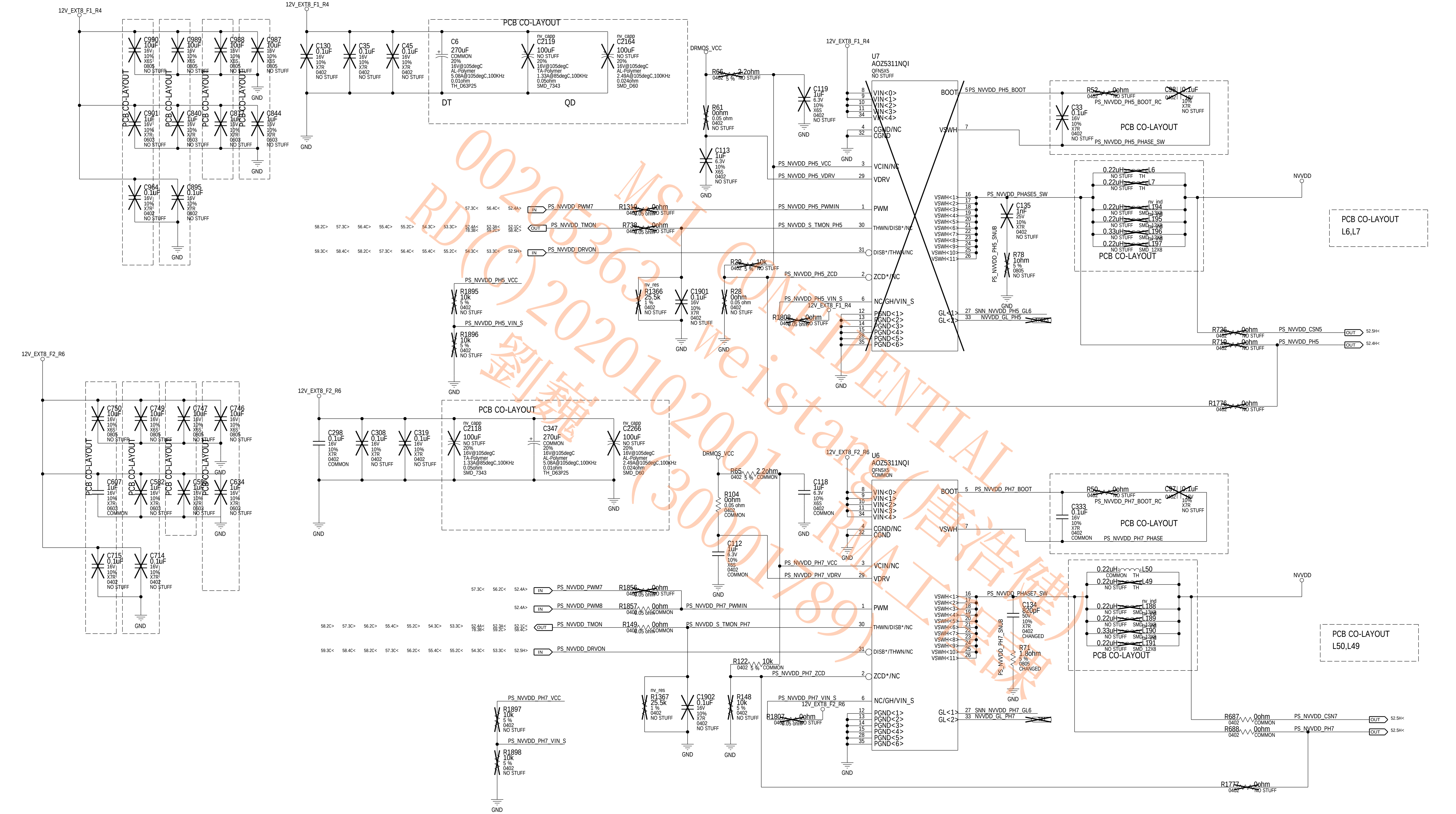
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	55 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: NVVDD PH 5(PWM2), PH7(PWM3)



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: NVVDD PH5(PWM7) and PH7(PWM8)

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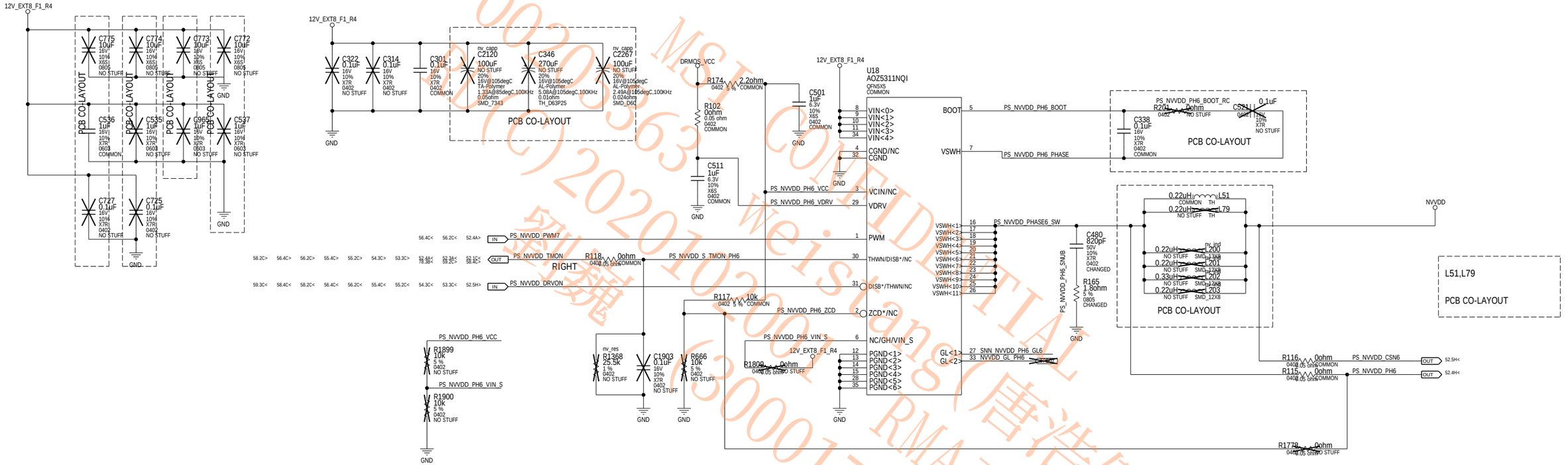
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	56 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: NVVDD Phase 6(PWM7)



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: NVVDD PH6 (PWM7)

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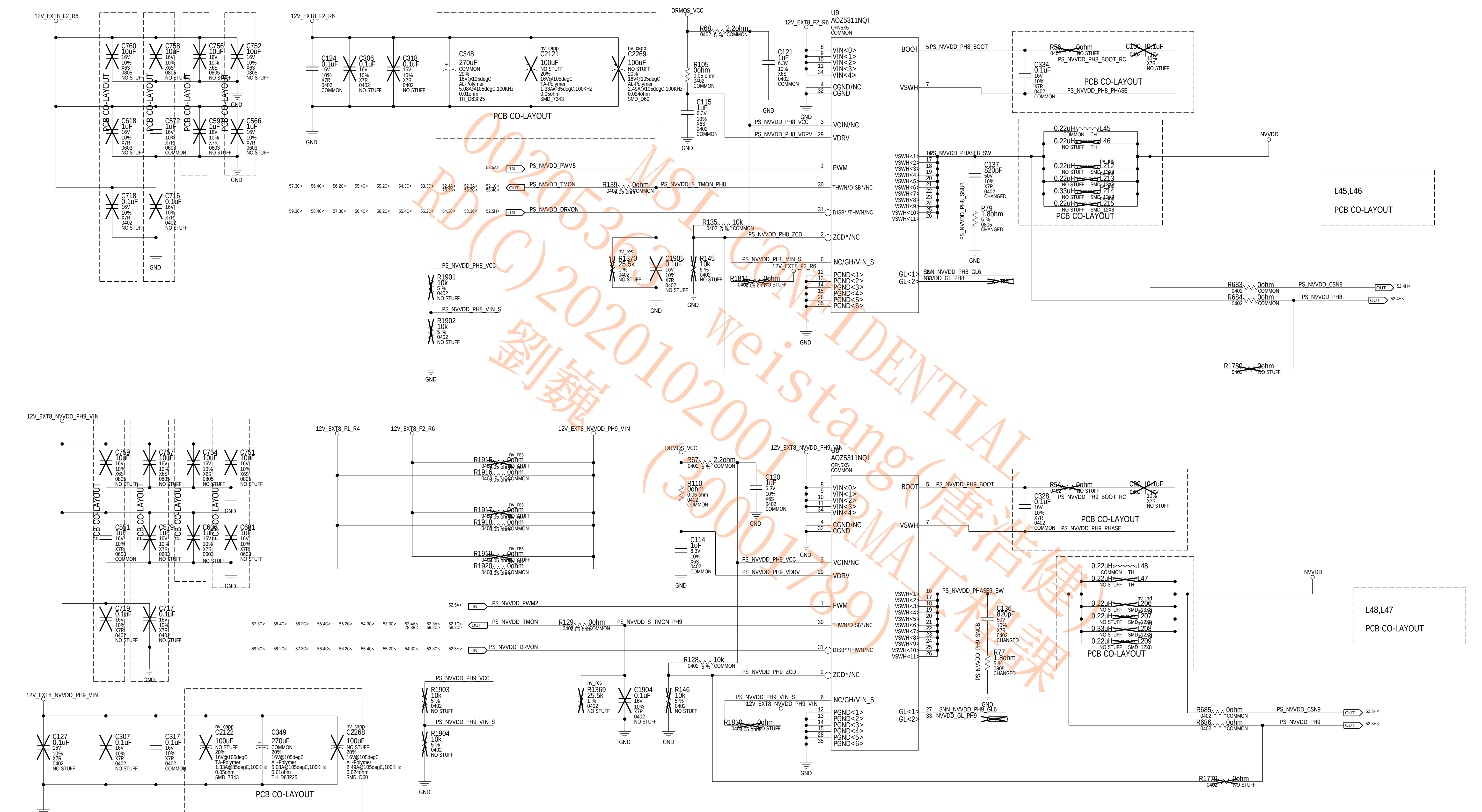
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	57 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: NVVDD PH 8 (PWM5), PH 9(PWM8)



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: NVVDD PH8(PWM5) and PH9(PWM2)

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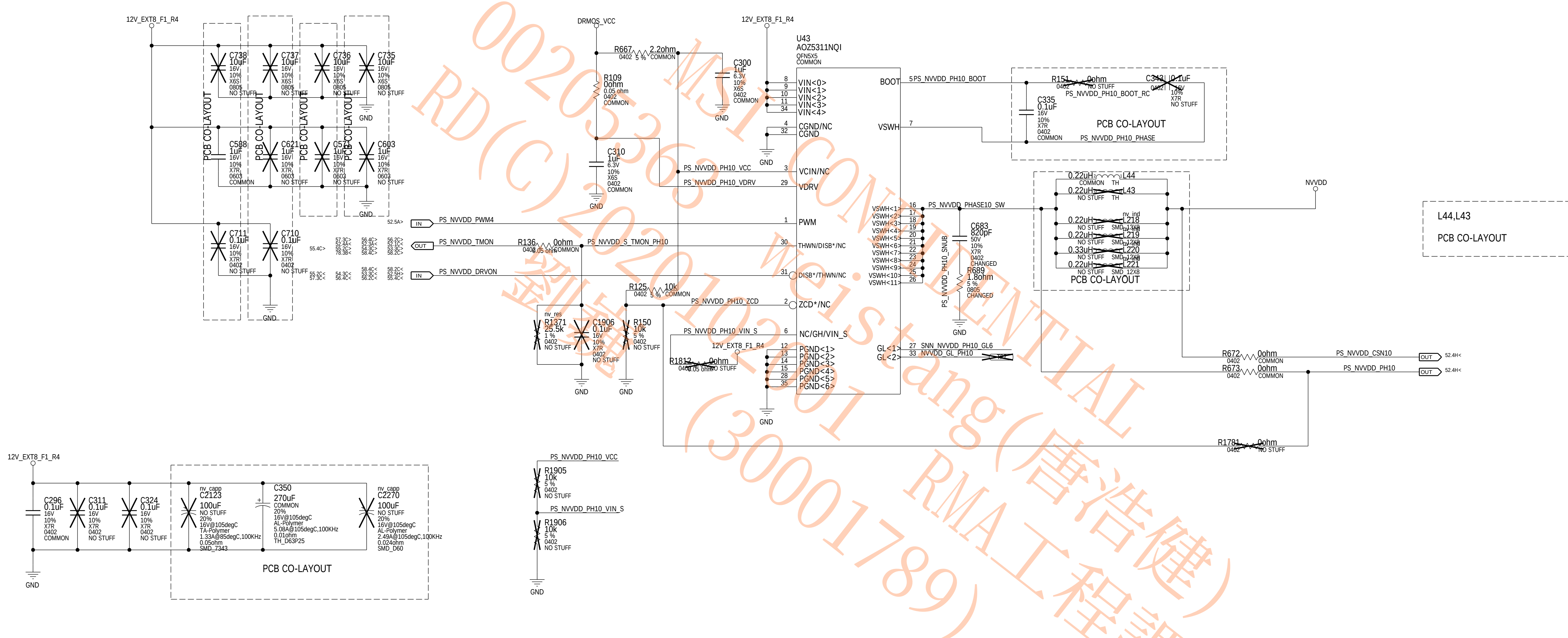
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	58 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: NVVDD Phase 10 (PWM8)



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: NVVDD PH10 (PWM4)

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NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	59 OF 79
BOM REV	C	DATE	15-JUN-2020

PCB CO-LAYOUT
C131, C132, C133, C140, C141, C142, C2106, C2107, C2133, C2134, C2135, C2137, C264, C265, C266, C267, C61, C64, C65, C66, C67, C68, C69, C77, C80, C83, C88

PCB CO-LAYOUT

C103, C105, C106, C107, C108, C110, C1208, C125, C1254, C1256, C1267, C128, C144, C145, C146, C151, C152, C153, C154, C159, C160, C161, C162, C170, C173, C2092, C2100, C2101, C2102, C2103, C2104,
C2138, C2139, C2140, C2141, C2142, C2143, C2144, C2272, C230, C231, C232, C233, C243, C245, C246, C248, C253, C254, C255, C256, C270, C274, C275, C276, C283, C289, C290, C291, C60202, C62004, C62005

C163, C164, C166, C167, C2087, C2105, C2109, C2110, C2111, C224, C225, C261, C268, C269, C60354, C61428, C62, C63, C89, C91, C96

PCB CO-LAYOUT

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	Colayout_Notes

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NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	60 OF 79
BOM REV	C	DATE	15-JUN-2020

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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	BLANK

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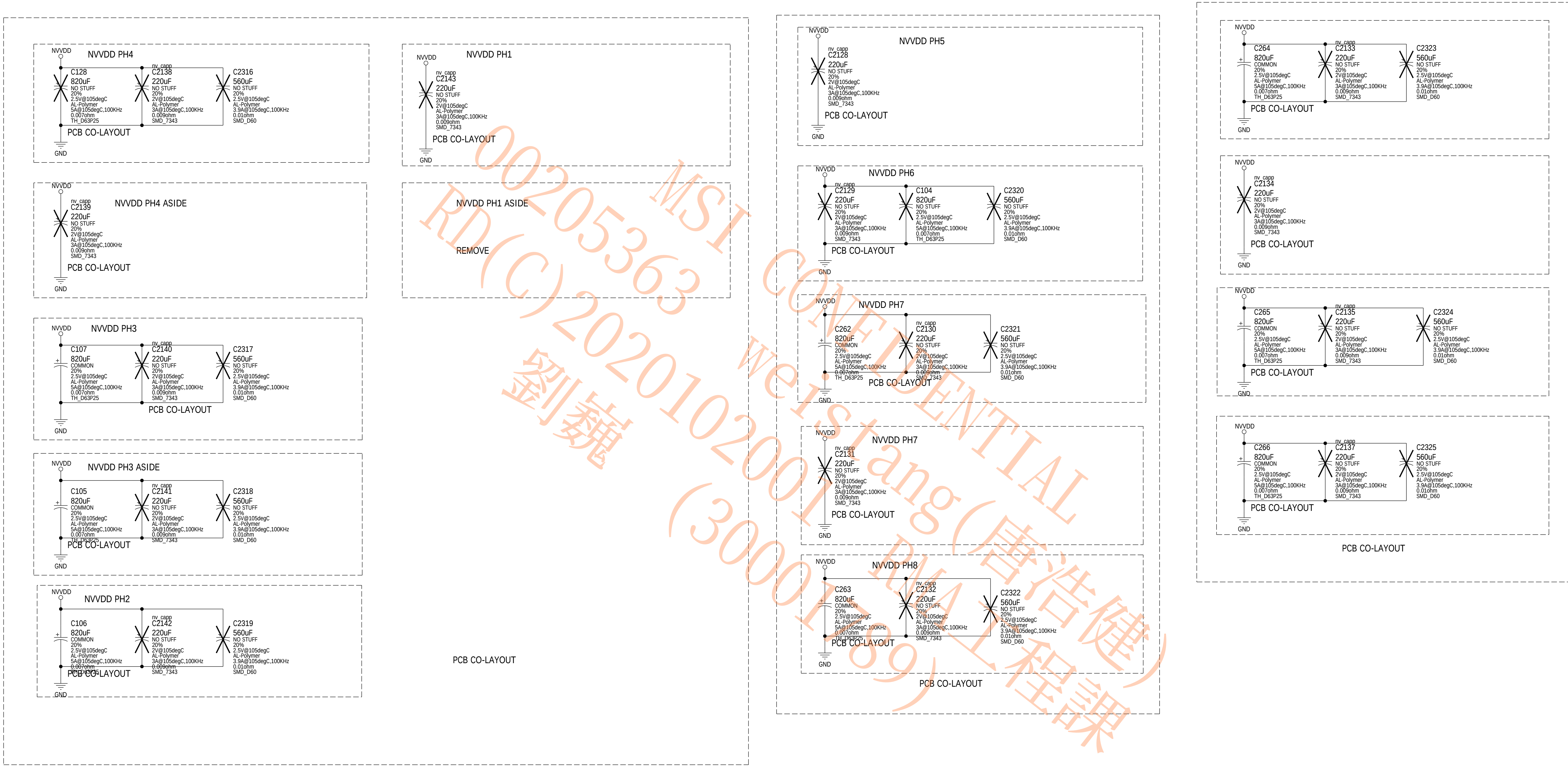
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	61 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: NVVDD OUTPUT CAP(TOP)



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: NVVDD OUTPUT CAP(TOP)

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NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	62 OF 79
BOM REV	C	DATE	15-JUN-2020

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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	BLANK

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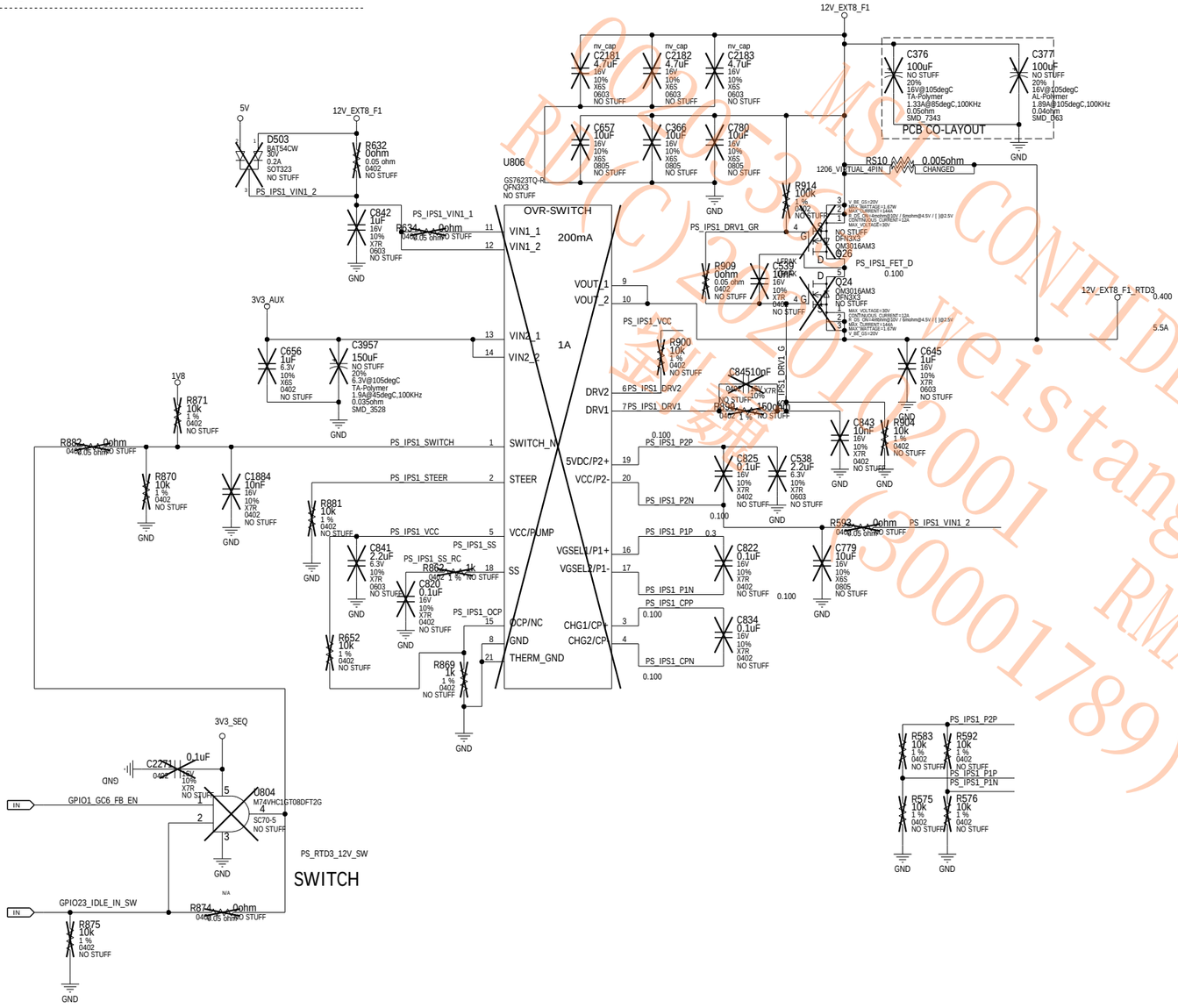
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	63 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: INPUT SWITCH RTD3

AND GATE LOGIC FOR P-BOARD

GPIO1	GPIO23	SWITCH	VOUT
0	0	0	12V_F
0	1	0	12V_F
1	0	0	12V_F
1	1	1	3V3A



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: INPUT SWITCH RTD3

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NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	64 OF 79
BOM REV	C	DATE	15-JUN-2020

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ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	BLANK

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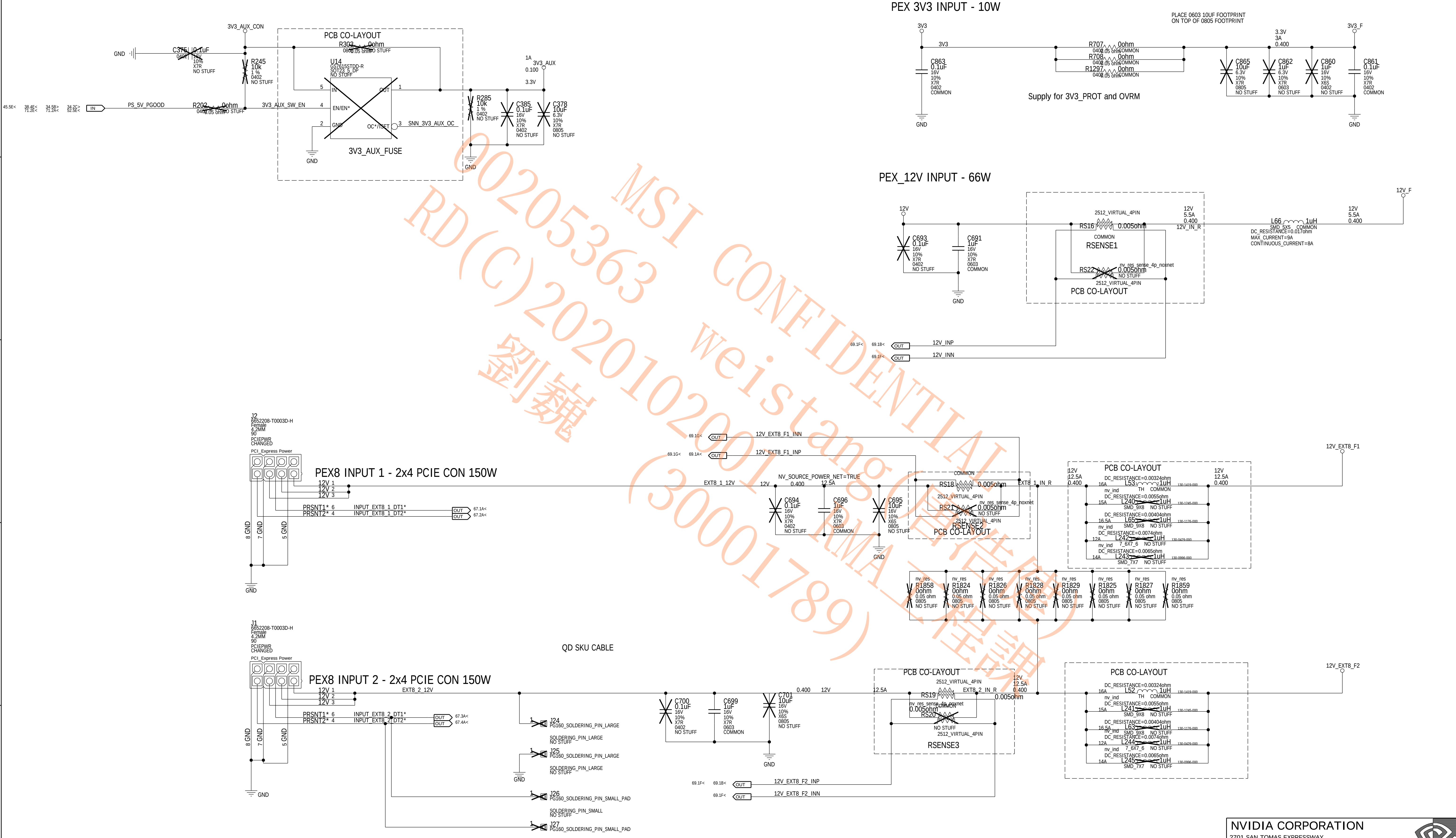
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	65 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: Inputs, Filtering, and Monitoring



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: INPUTS, FILTERING, and, MONITORING

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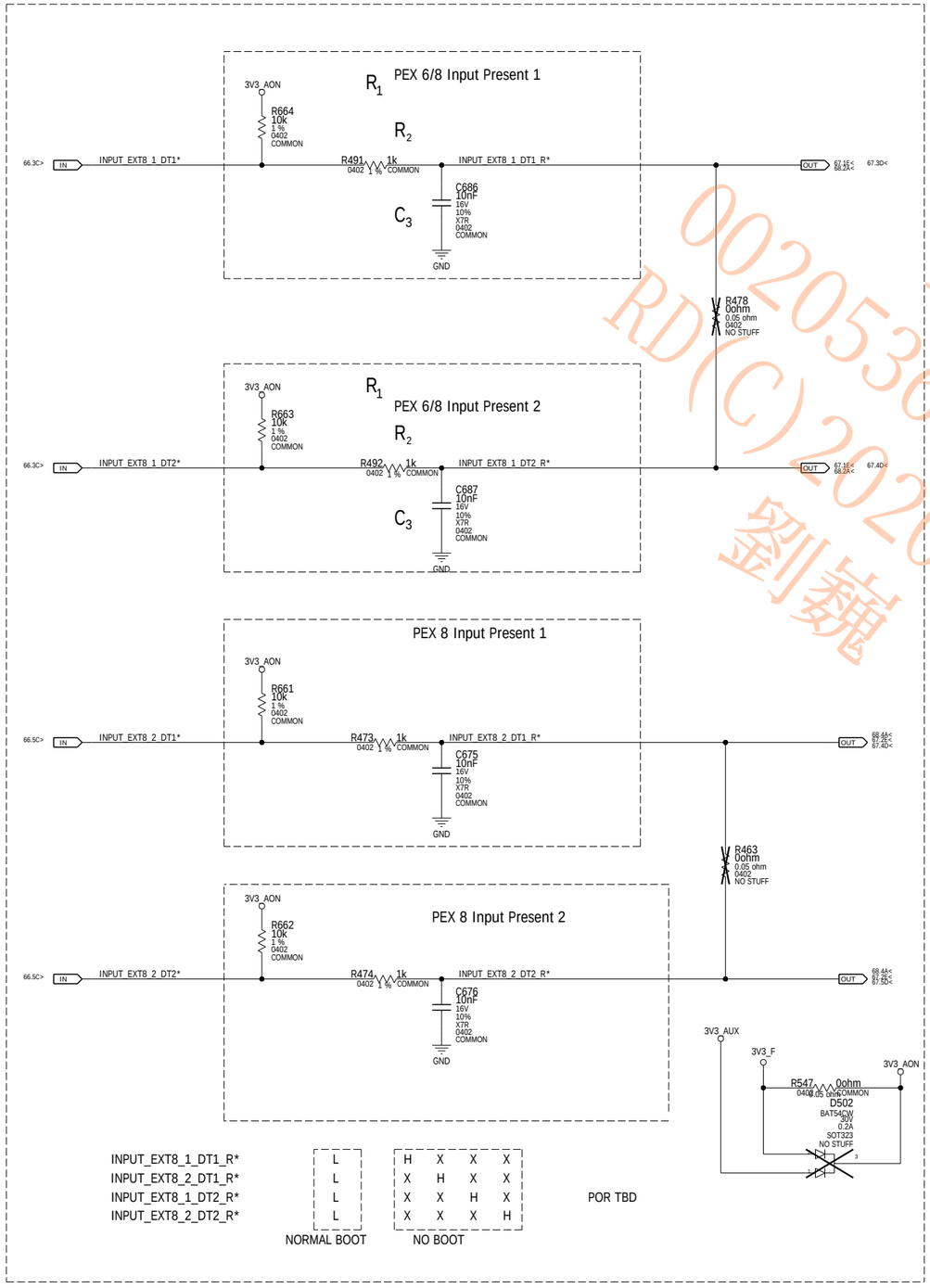
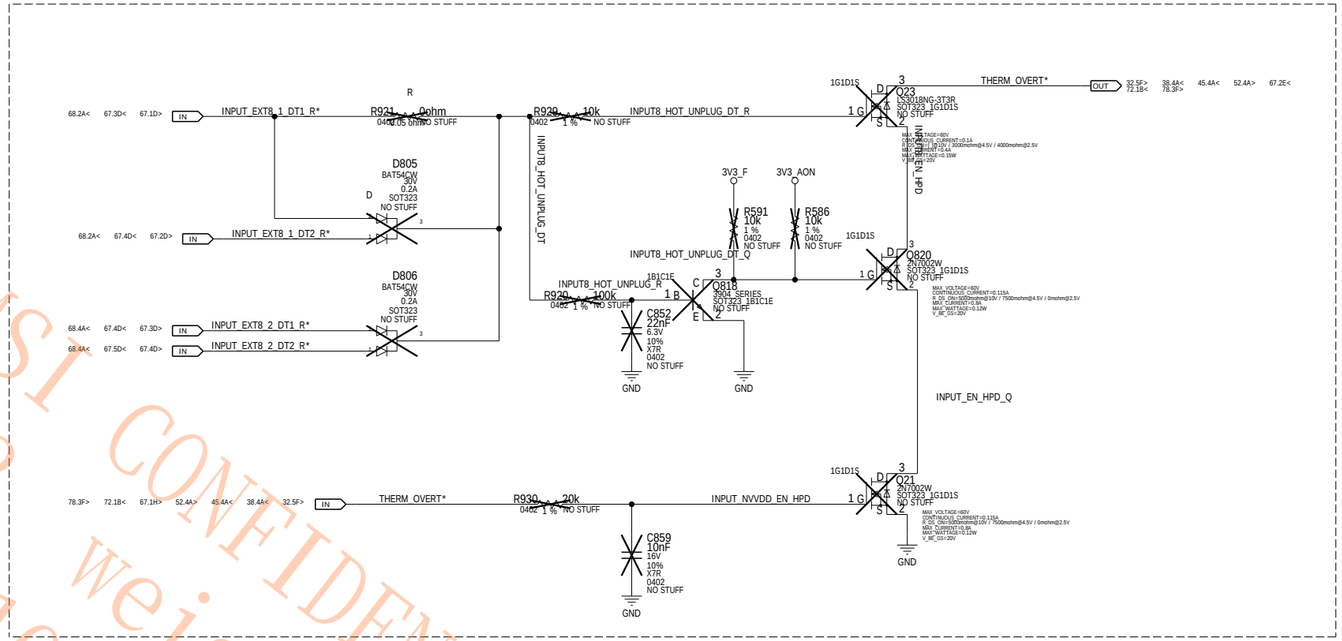
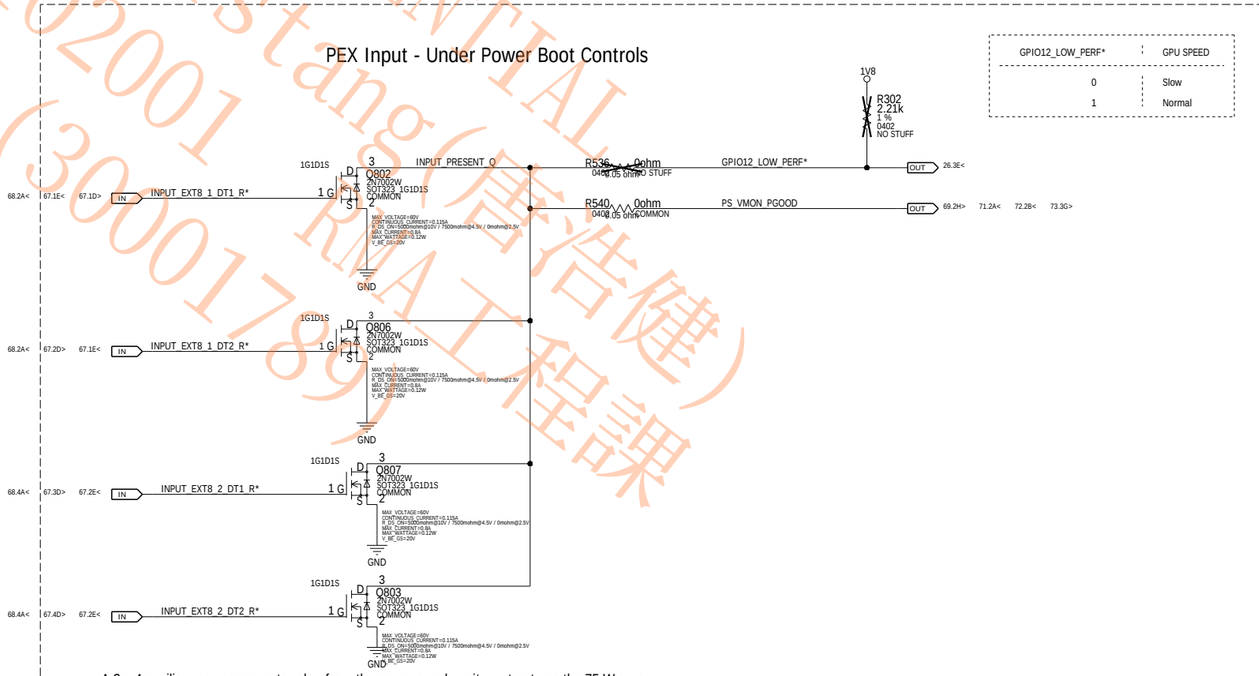
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	66 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: 12V Current Steering & Hot Unplug Detect







A 2 x 4 auxiliary power connector plug from the power supply unit must not use the 75 W sense coding (Sense1=Open and Sense0=Ground) to avoid end-user confusion.

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: HOT UNPLUG

NVIDIA CORPORATION
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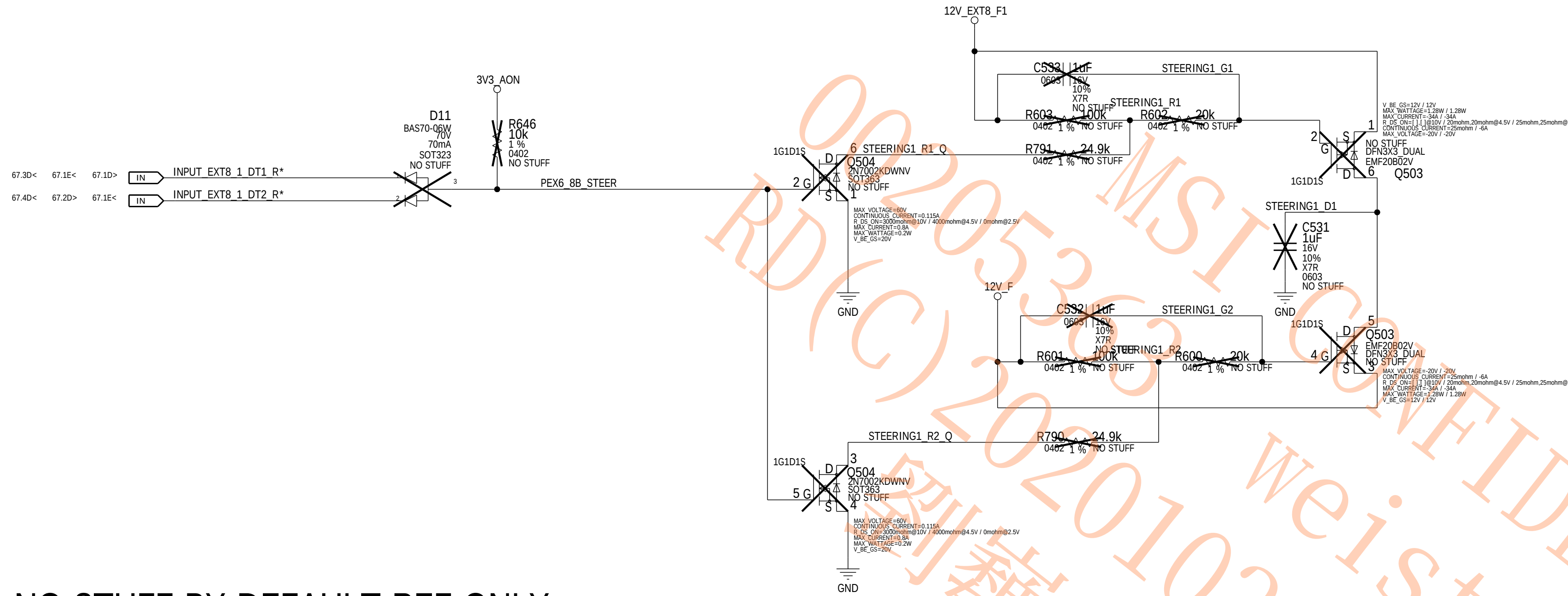
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	67 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: Discrete Steering

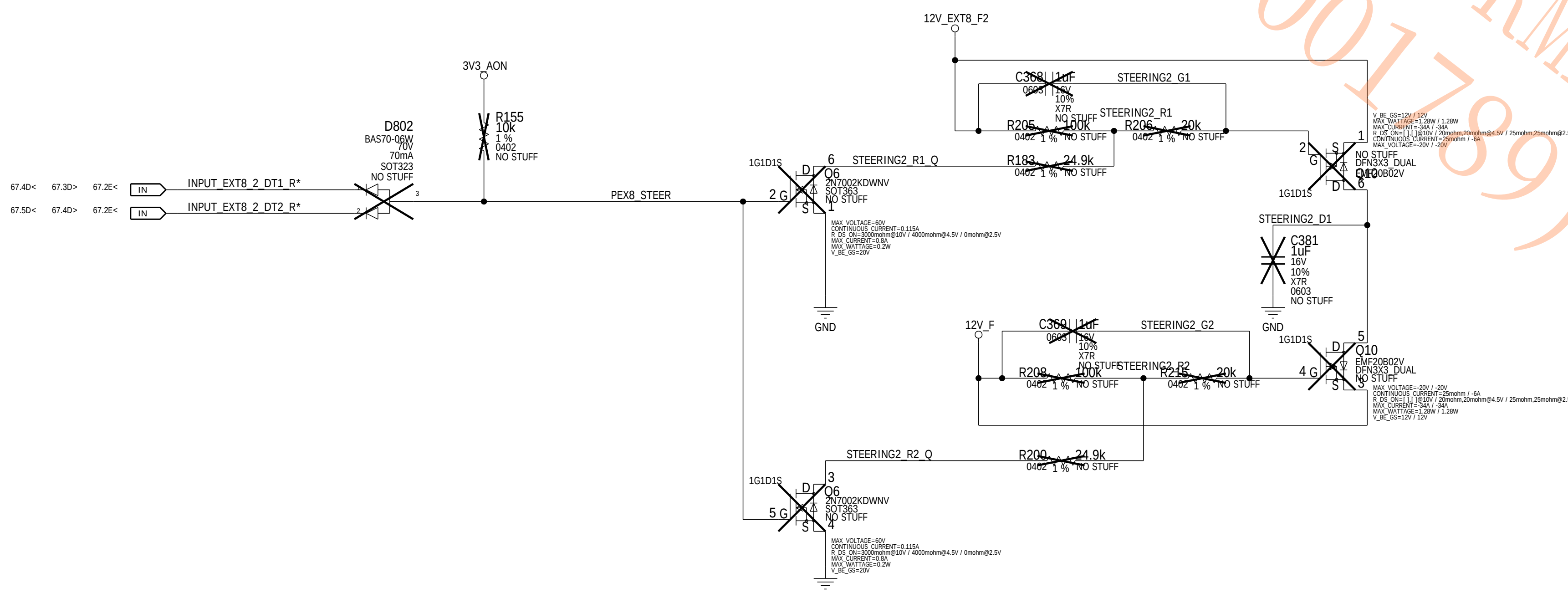
12V CURRENT STEERING (UNDER POWER BOOT):

PEX12V AND 12V_EXT8_F1



NO STUFF BY DEFAULT REF ONLY

PEX12V AND 12V_EXT8_F2



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: Discrete Power Steering

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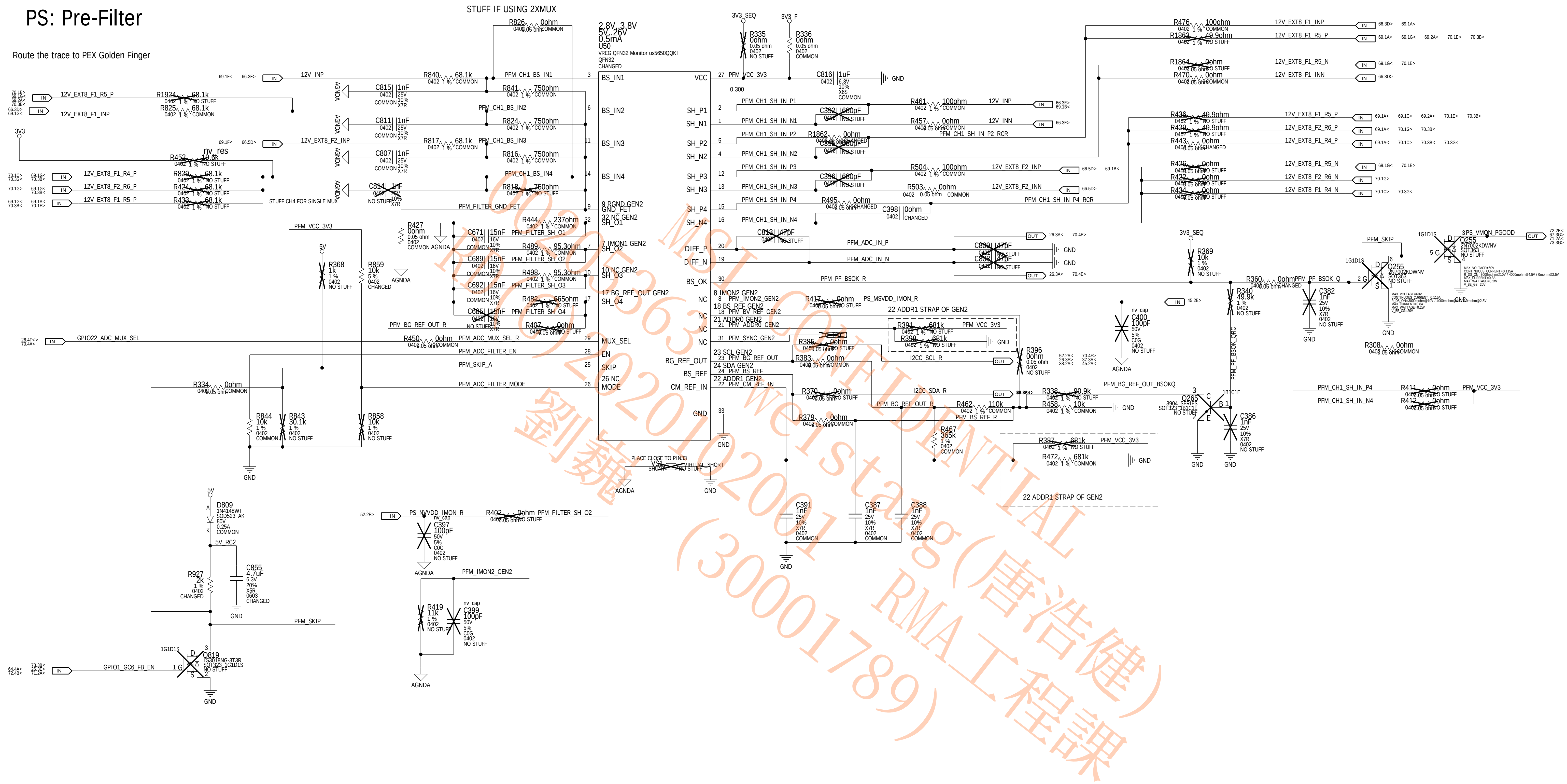
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	68 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: Pre-Filter

Route the trace to PEX Golden Finger



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: PREFILTER

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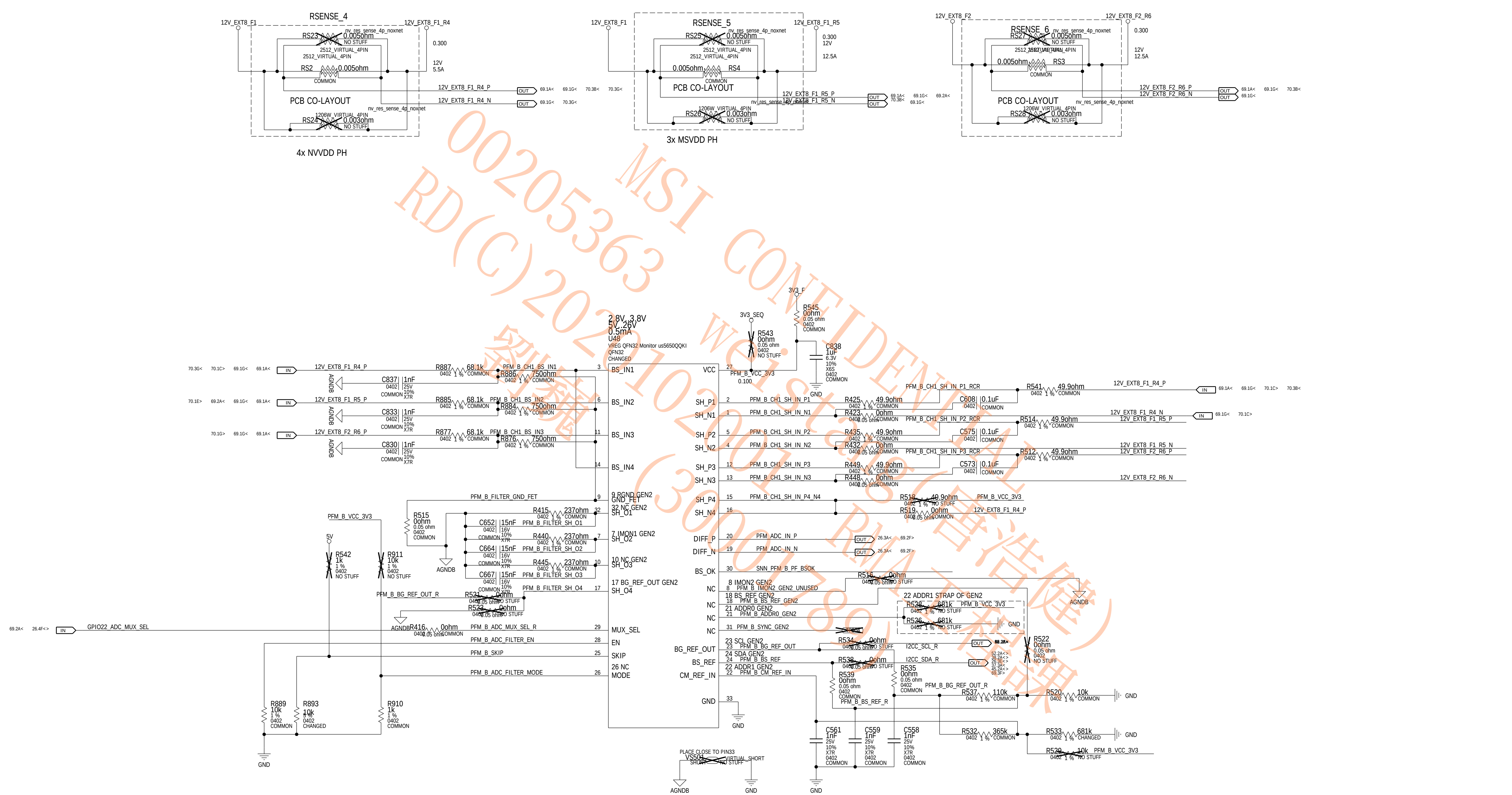
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	69 OF 79
BOM REV	C	DATE	15-JUN-2020

PS: Pre-Filter B



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PS: PREFILTER B

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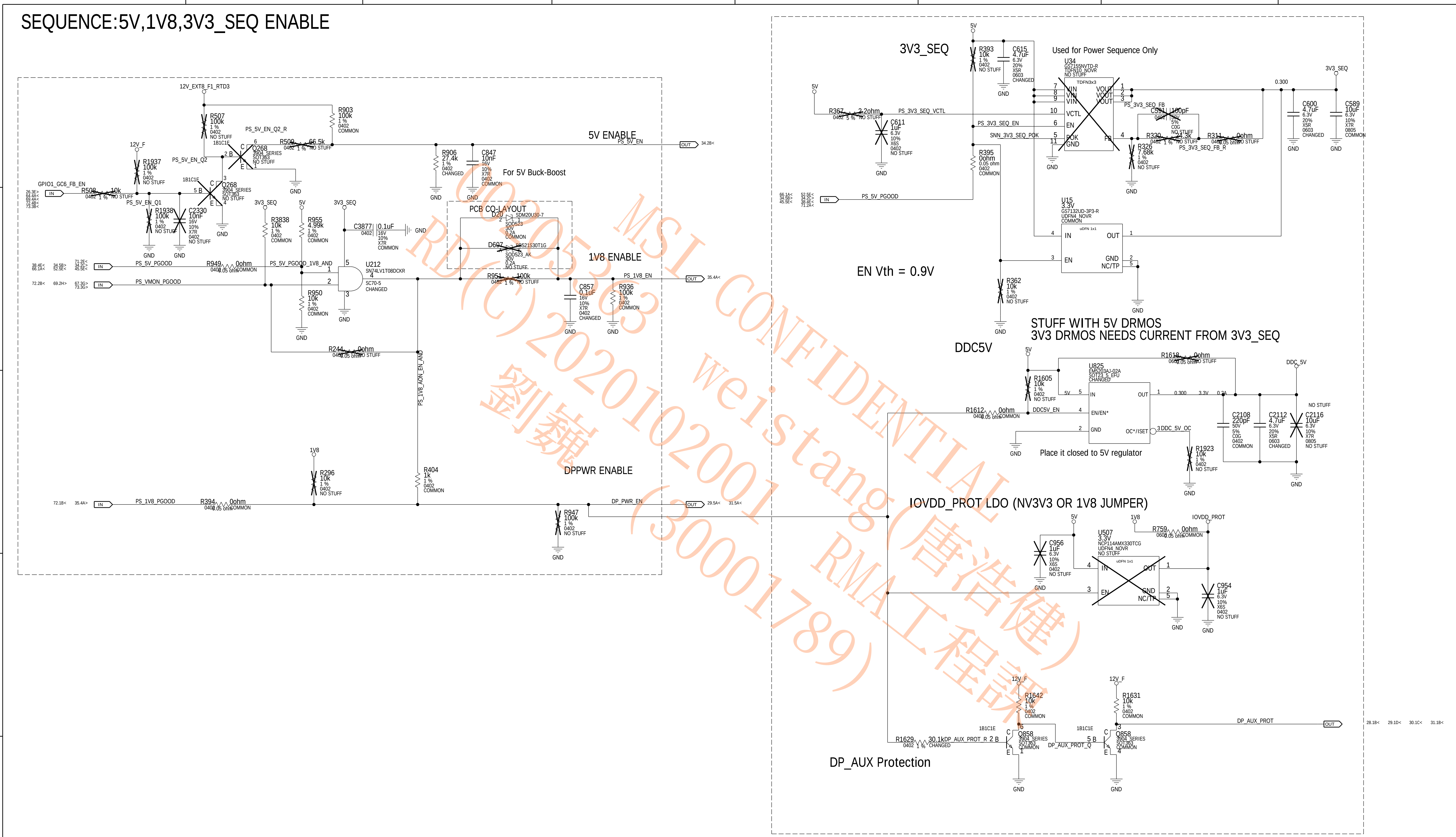
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	70 OF 79
BOM REV	C	DATE	15-JUN-2020

SEQUENCE:5V,1V8,3V3_SEQ ENABLE



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	Sequence: 5V, 1V8, 3V3_SEQ

NVIDIA CORPORATION
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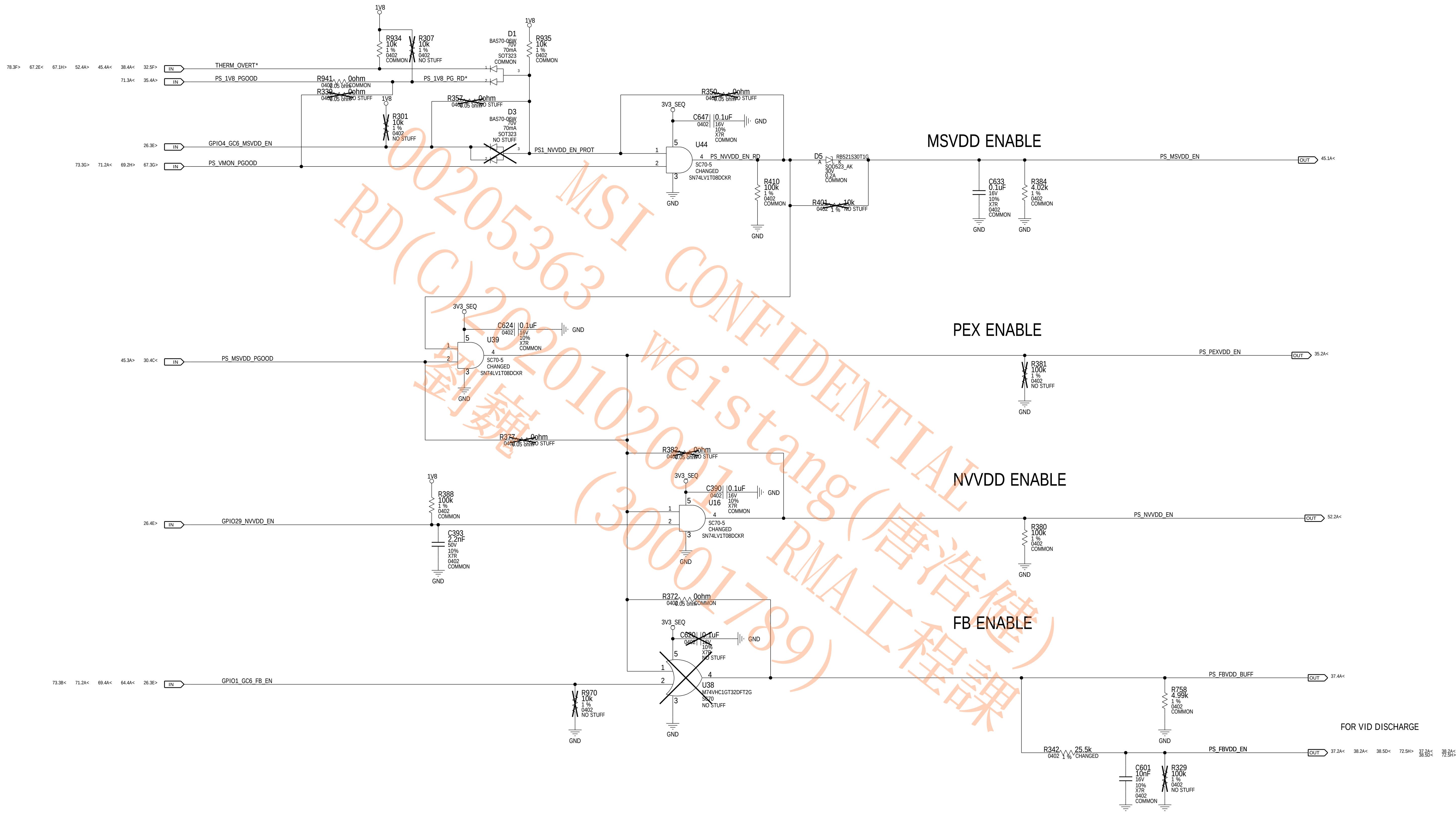
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	71 OF 79
BOM REV	C	DATE	15-JUN-2020

SEQUENCE:NV,PEX,FB ENABLE



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	Sequence: NV, PEX, FB EN

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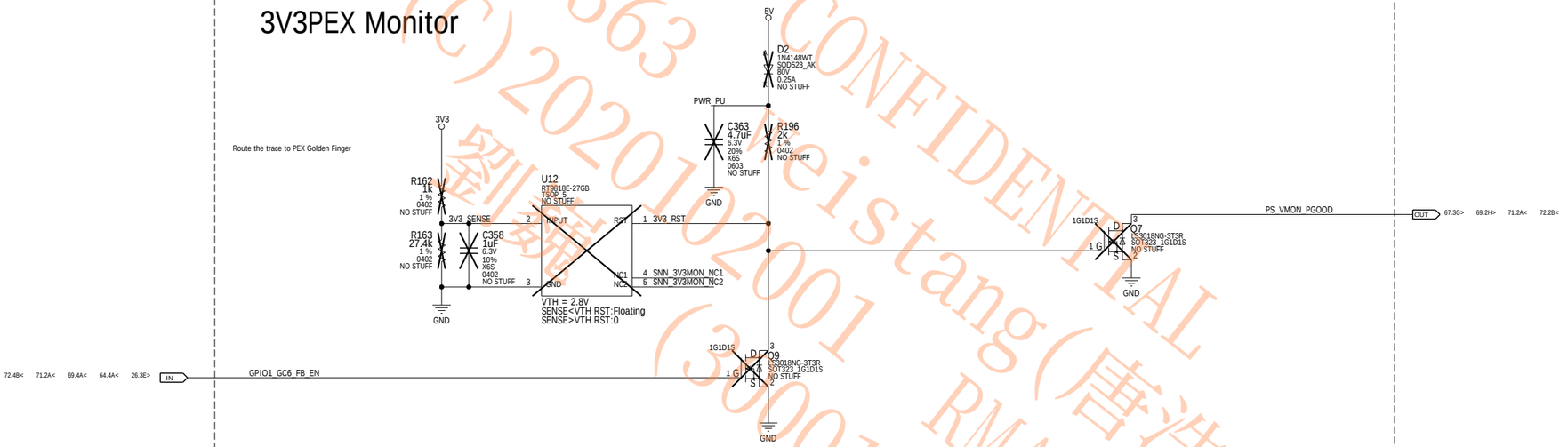
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	72 OF 79
BOM REV	C	DATE	15-JUN-2020

Sequence: 3V3 MONITOR

3V3PEX Monitor

Route the trace to PEX Golden Finger



3V3 can be monitored by OVR-M with un-used Channel

ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	Sequence: 3V3 MONITOR

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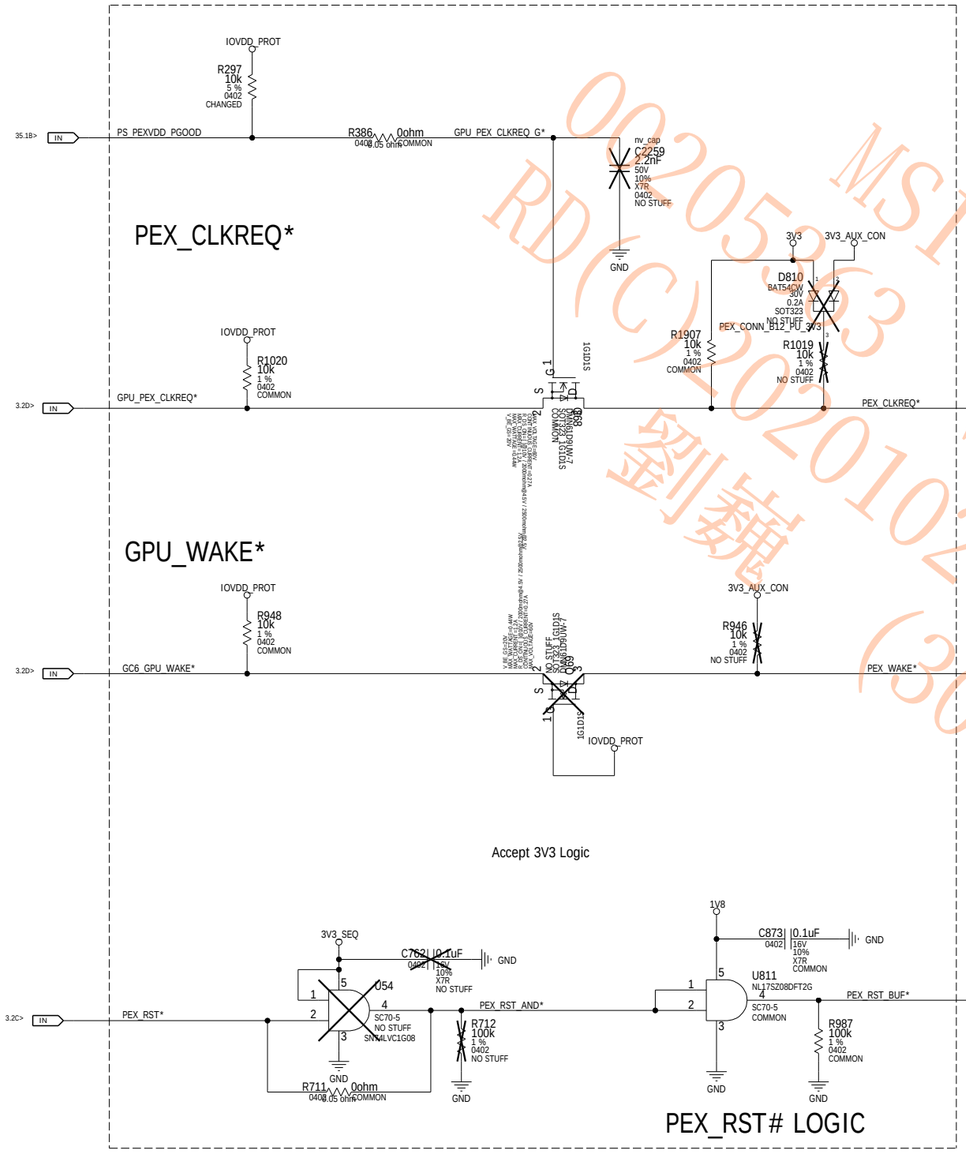
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	73 OF 79
BOM REV	C	DATE	15-JUN-2020

SEQUENCE:MISC



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	Sequence: MISC

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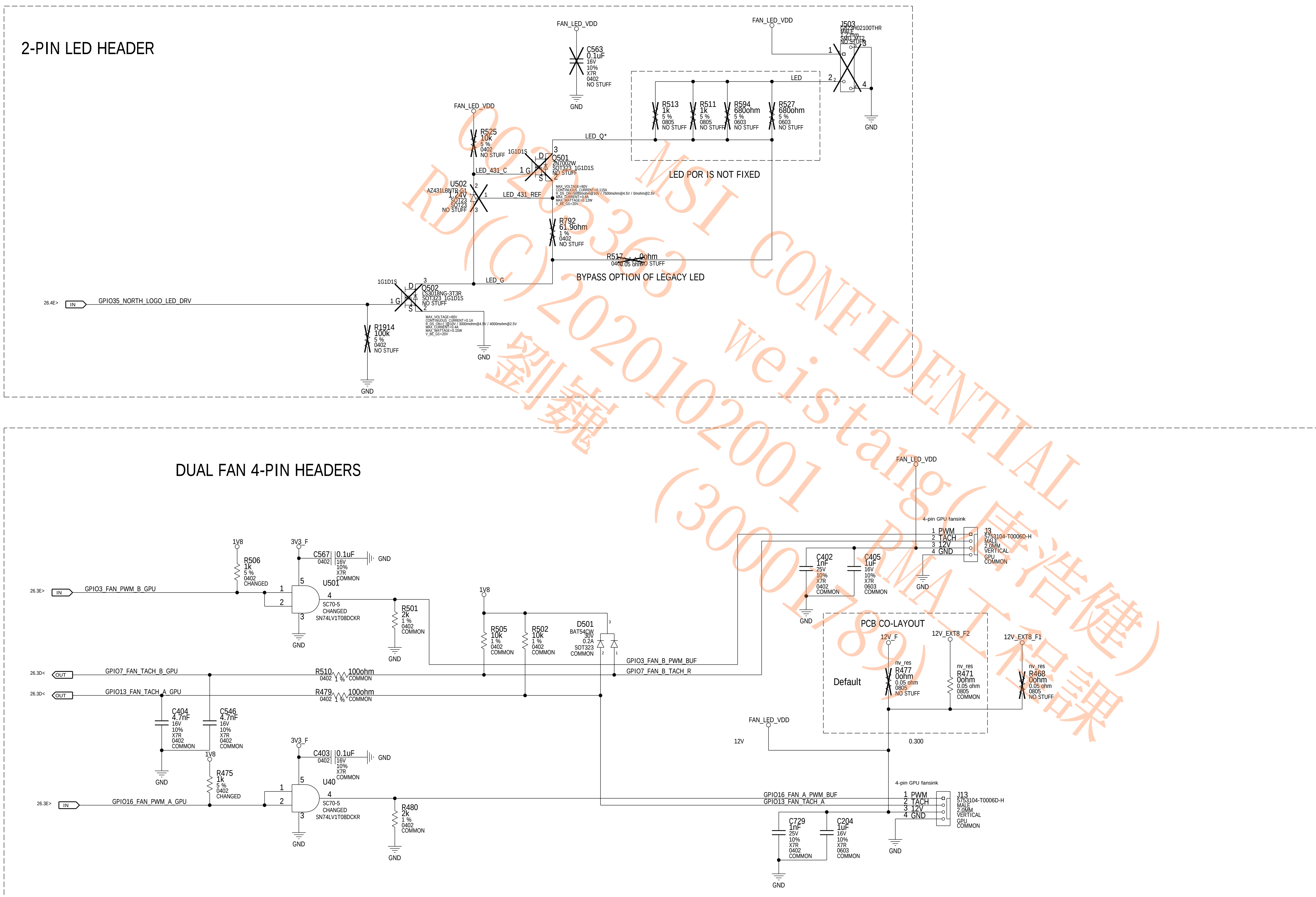
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	74 OF 79
BOM REV	C	DATE	15-JUN-2020

MISC: LED & FAN



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	MISC: LED & FAN

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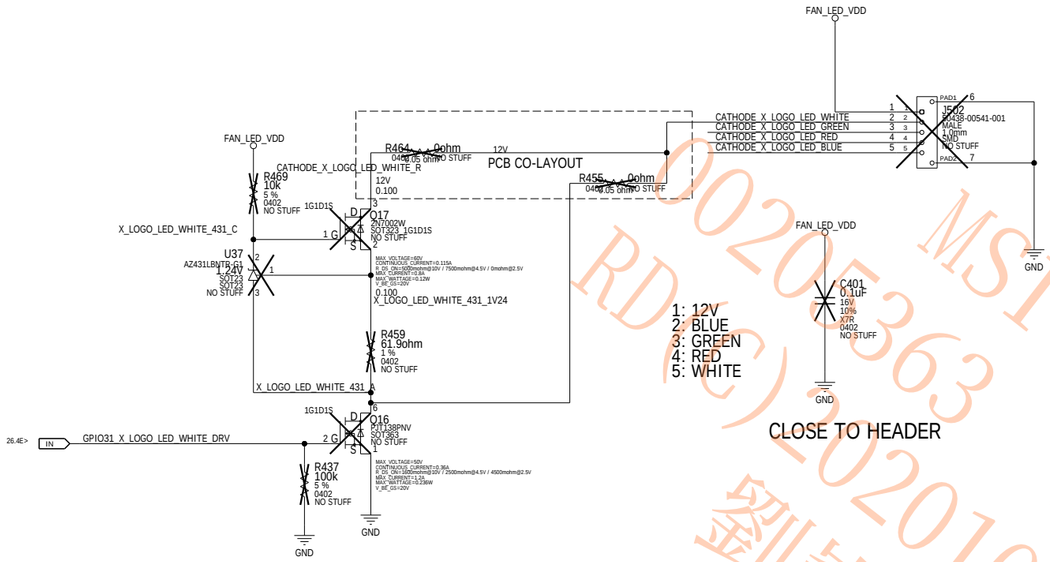
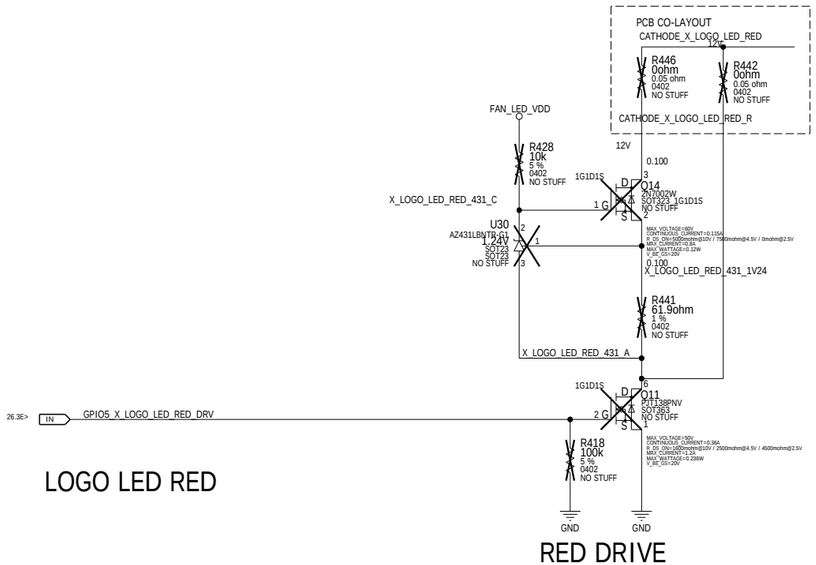
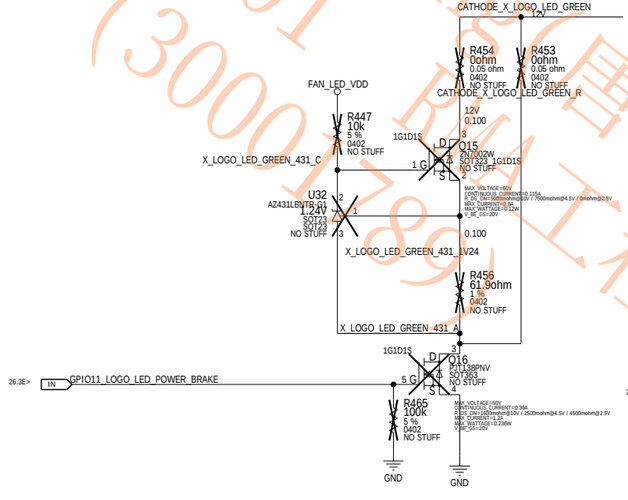
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	75 OF 79
BOM REV	C	DATE	15-JUN-2020

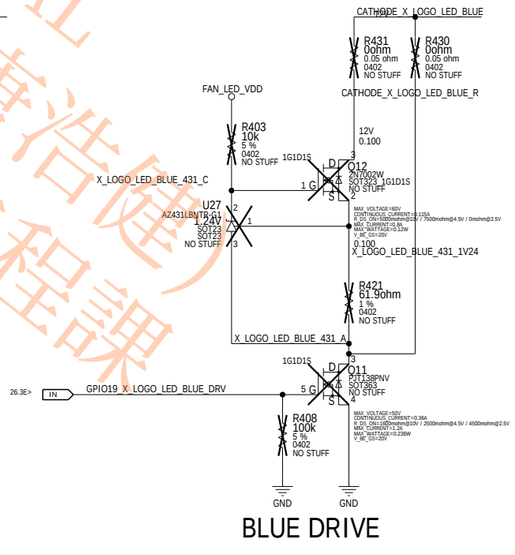
MISC: RGBW LED REF



CONNECTOR SIZE TO FIT LAYOUT
ALL CIRCUIT NO STUFF BY DEFAULT
ALINGN WITH PASH
IF ADDTIONAL POWER CONSUPTION R NEEDED, IT SHOULD BE ON LED MOD.







ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	RGBW LED REF

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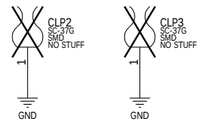
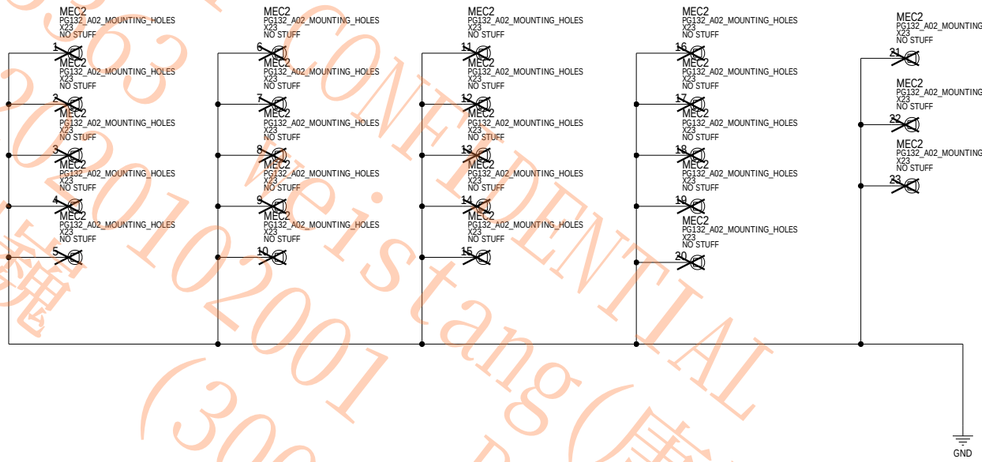
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	76 OF 79
BOM REV	C	DATE	15-JUN-2020

Mechanical: Mounting holes





ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	MECH

NVIDIA CORPORATION
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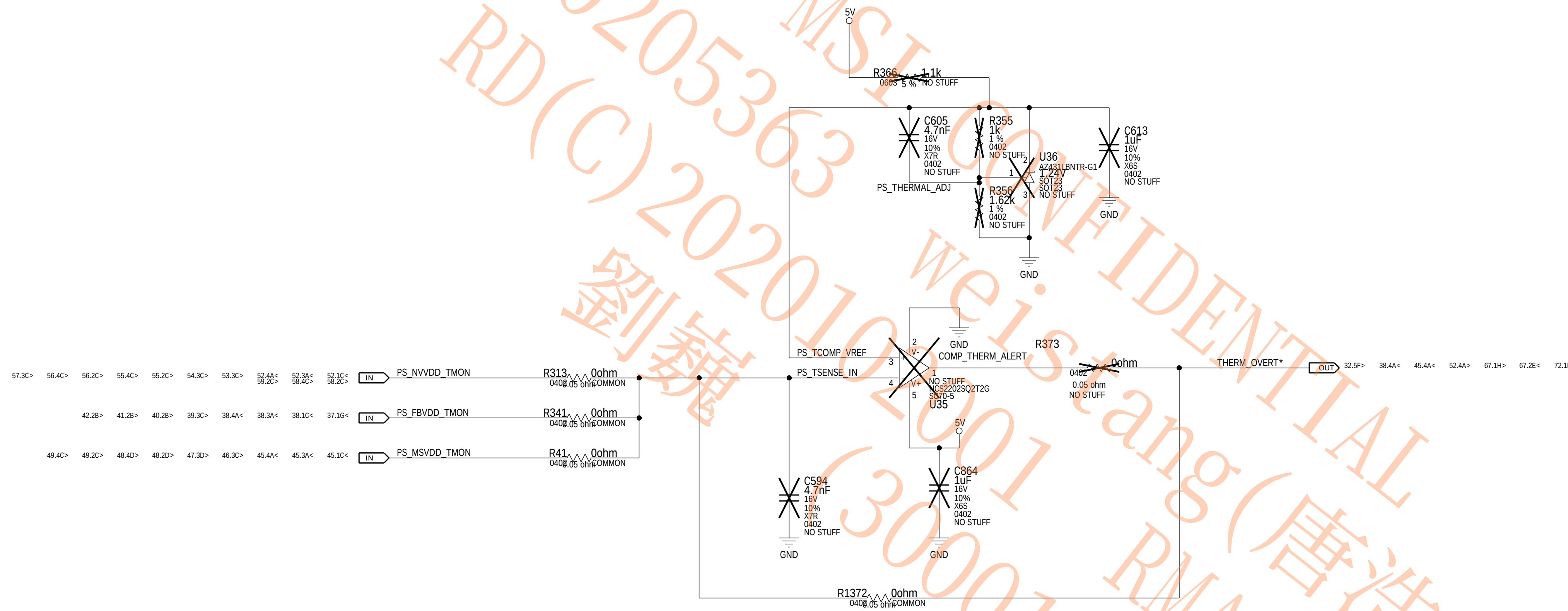
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	77 OF 79
BOM REV	C	DATE	15-JUN-2020

VR THERMAL PROTECTION



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	VR Therrmal Protection

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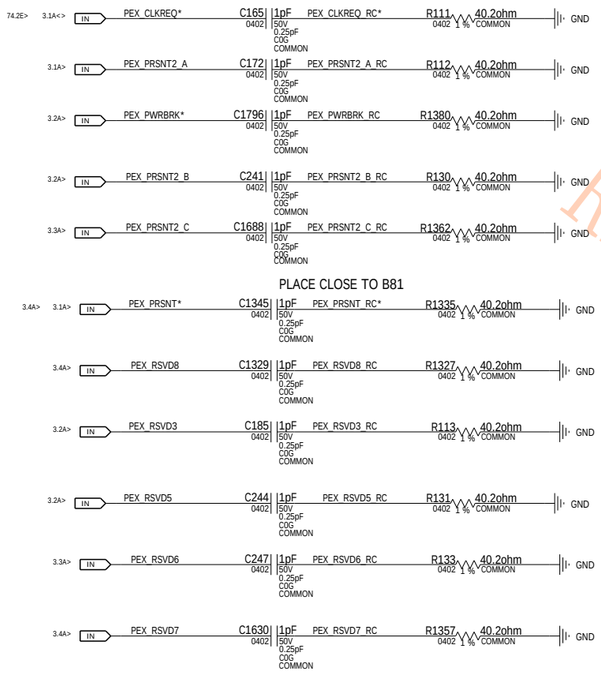
NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	78 OF 79
BOM REV	C	DATE	15-JUN-2020

PCI TERM



ASSEMBLY	BASE LEVEL GENERIC SCHEMATIC ONLY, COMMON & NO_STUFF ASSEMBLY NOTES AND BOM NOT FINAL
PAGE DETAIL	PCIE TERM

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NV_PN	600-1G132-0030-300		
PCB REV	PG132-A02	PAGE	79 OF 79
BOM REV	C	DATE	15-JUN-2020