#### PG132-A02 370W, FH Std PCB, 384b, GDDR6x 2CH X16 DP + DP + DP + HDMI/DP **TABLE OF CONTENTS** Page Description Page Description Page Description MISC: THERMAL, JTAG, GPIO BLANK Table of Contents 51 26 **BLOCK DIAGRAM** 27 IFPA UNUSED, IFPB UNUSED 52 PS: NVVDD Controller\_OVR8 PCI EXPRESS 28 IFPE DP PS: NVVDD PH1 (PWM1) MEMORY: GPU PARTITION A/B 29 IFPD DP PS: NVVDD PH2(PWM6) MEMORY: FBA PARTITION[31:0] 30 IFPC HDMI/DP PS: NVVDD PH3 (PWM3) and PH4 (PWM3) MEMORY: FBA PARTITION[63:32] PS: NVVDD PH5(PWM7) and PH7(PWM8) 6 31 IFPF DP 56 MEMORY: FBB PARTITION[31:0] 32 MISC. ROM, STRAPS 57 PS: NVVDD PH6 (PWM7) MEMORY: FBB PARTITION[63:32] 33 MISC. XTAL, PLL 58 PS: NVVDD PH8(PWM5) and PH9(PWM2) MEMORY: GPU PARTITION C/D PS: 5V 59 PS: NVVDD PH10 (PWM4) 9 34 10 MEMORY: FBC PARTITION[31:0] 35 PS: PEX\_DVDD and 1V8 60 Colayout\_Notes MEMORY: FBC PARTITION[63:32] 61 11 36 BLANK **BLANK** PS: NVVDD OUTPUT CAP(TOP) MEMORY: FBD PARTITION[31:0] 37 PS: FBVDD Controller OVR3 62 12 MEMORY: FBD PARTITION[63:32] PS: FBVDDQ OVR4 63 13 38 **BLANK** 14 MEMORY: GPU PARTITION E/F 39 PS: FBVDD PH1 PS: INPUT SWITCH RTD3 15 MEMORY: FBE PARTITION[31:0] 40 PS: FBVDD PH3 65 16 MEMORY: FBE PARTITION[63:32] PS: FBVDD PH2 PS: INPUTS, FILTERING, and, MONITORING MEMORY: FBF PARTITION[31:0] 42 PS: FBVDD PH4 67 PS: HOT UNPLUG 17 MEMORY: FBF PARTITION[63:32] 43 PS: FBVDD OUTPUT CAP PS: Discrete Power Steering 18 19 GPU GND, RFUs & RSVD 44 PS: FBVDD\_OUTPUT\_CAP\_NEAR\_MEMORY 69 PS: PREFILTER PS: MSVDD CONTROLLER 20 **GPU POWERS** 45 70 PS: PREFILTER B 21 GPU DECOUPLING NVVDD 46 PS: MSVDD PH1 71 Sequence: 5V, 1V8, 3V3\_SEQ GPU DECOUPLING FBVDDQ PS: MSVDD PH2 Sequence: NV, PEX, FB EN 22 47 72 GPU DECOUPLING MSVDD PS: MSVDD PH3 and PH5 Sequence: 3V3 MONITOR 23 73 48 PS: MSVDD PH4 and PH6 24 **BLANK** 49 74 Sequence: MISC 50 PS: MSVDD OUTPUT CAP(TOP) 75 MISC: LED & FAN 25 NVHS x16

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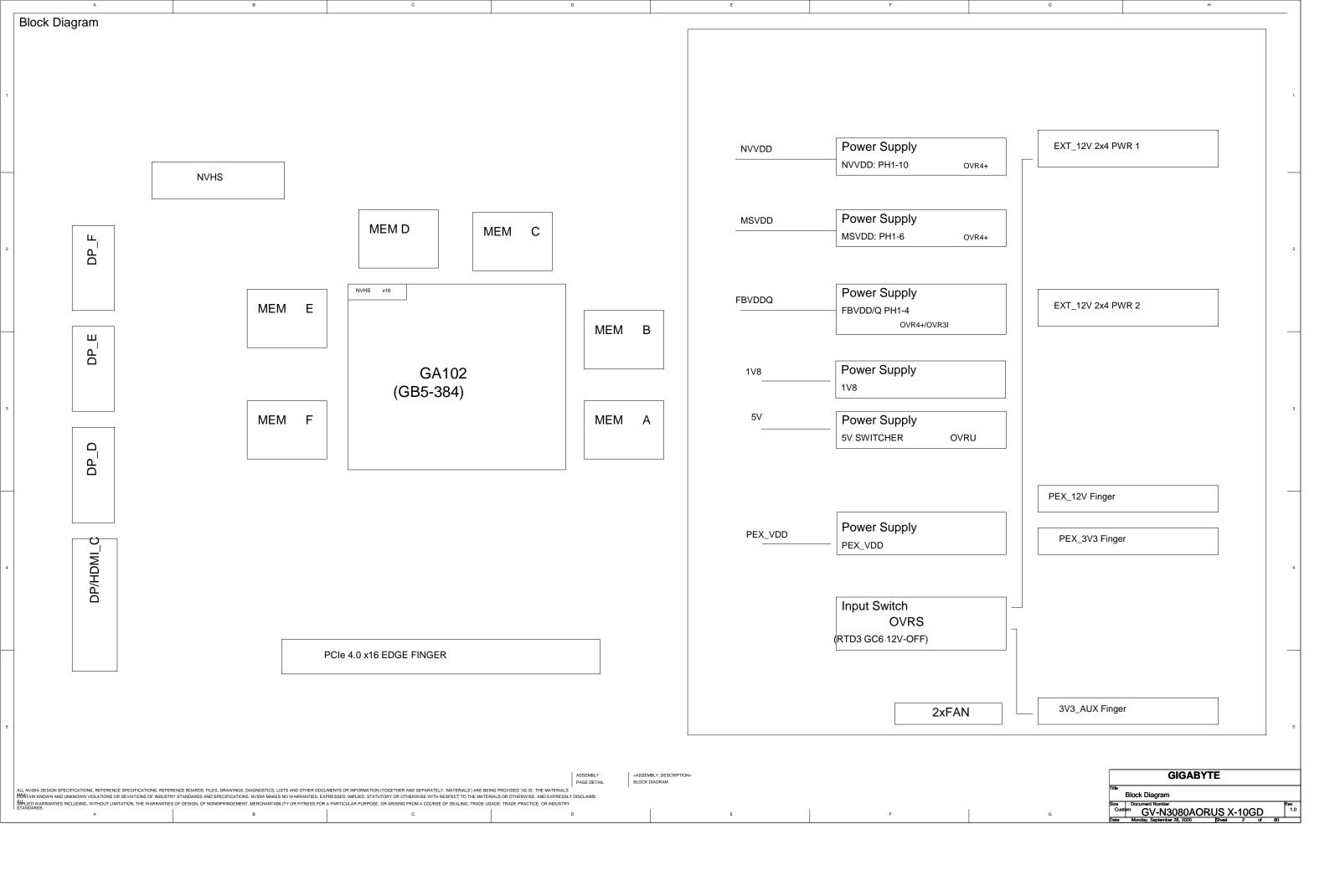
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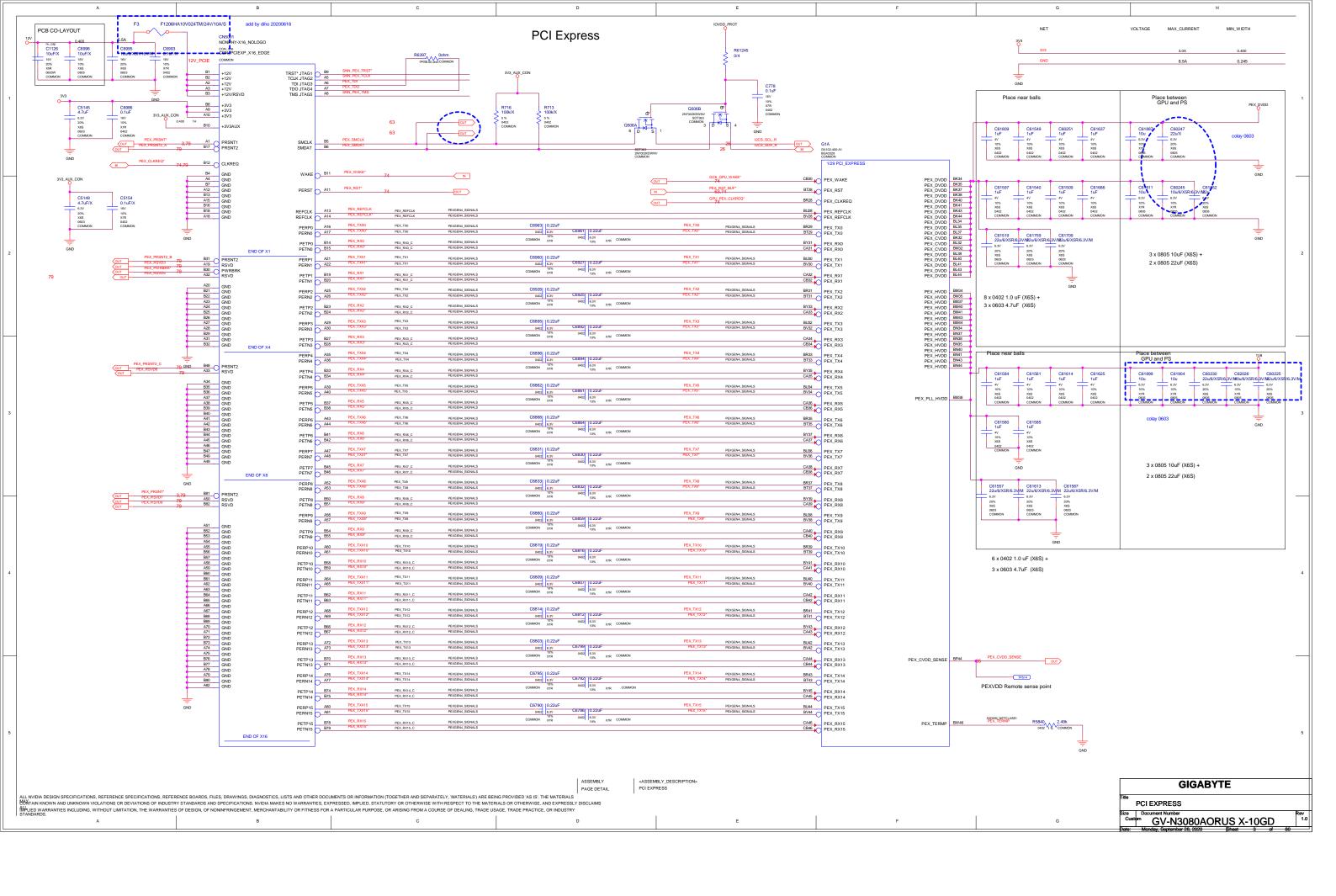
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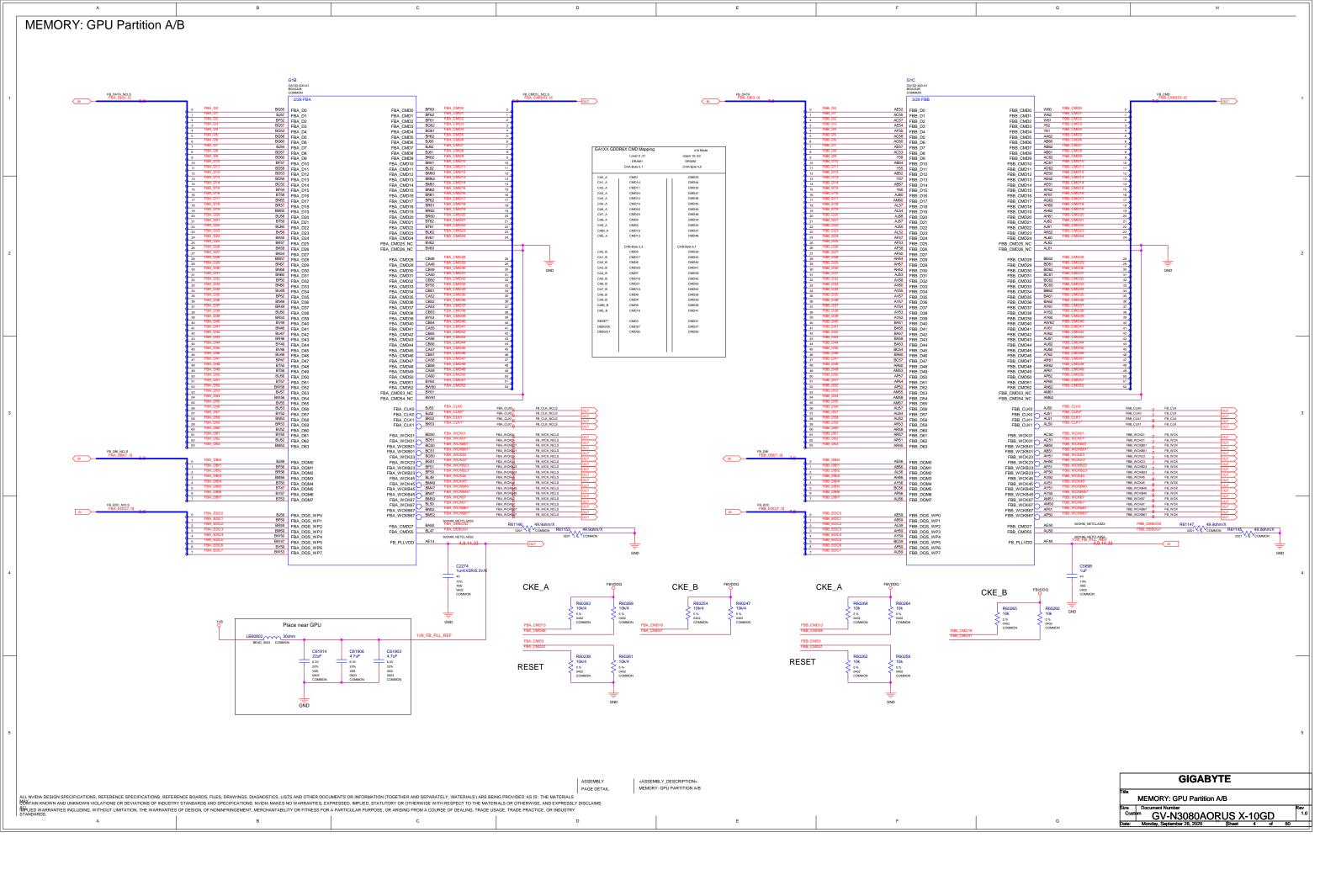
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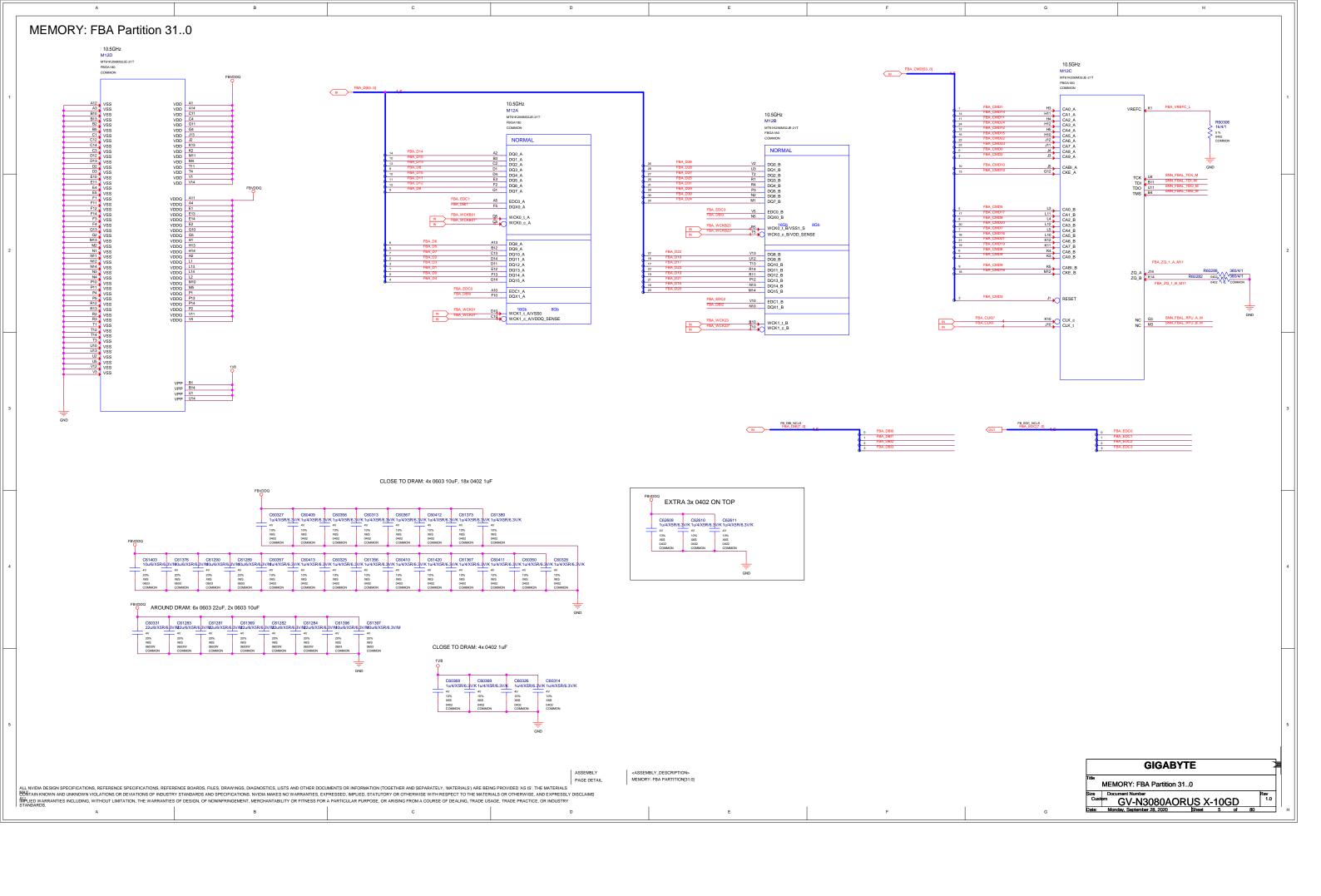
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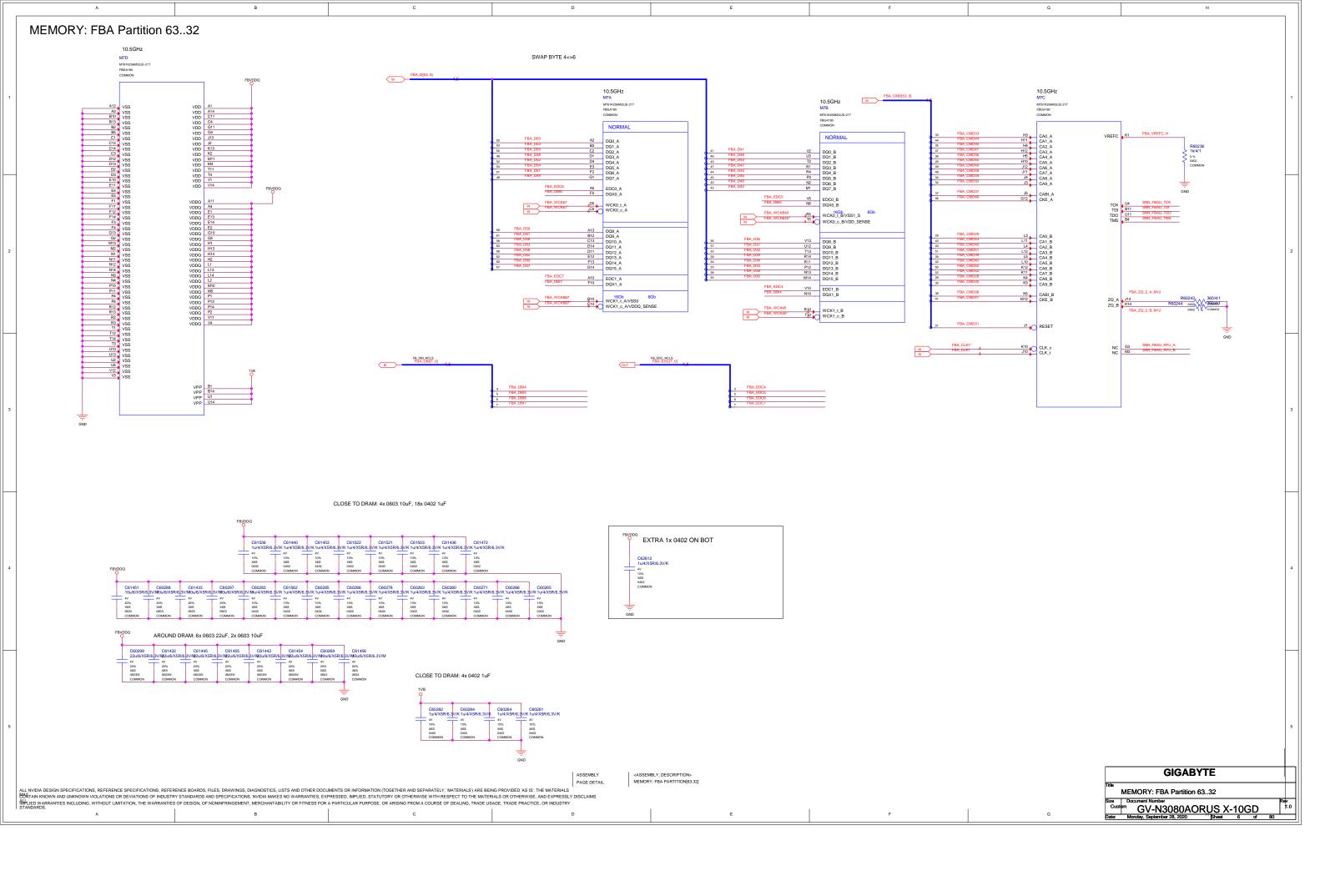
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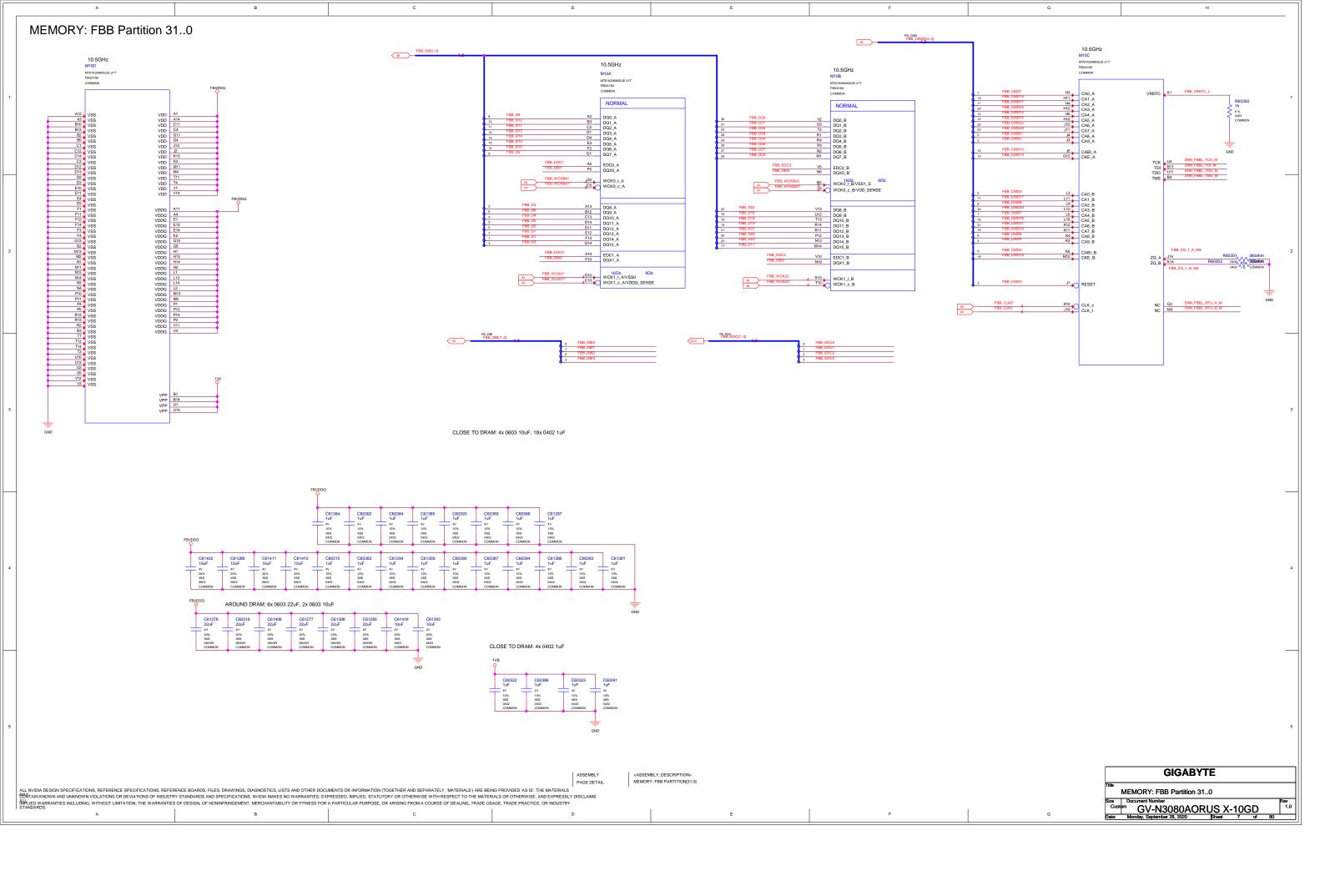


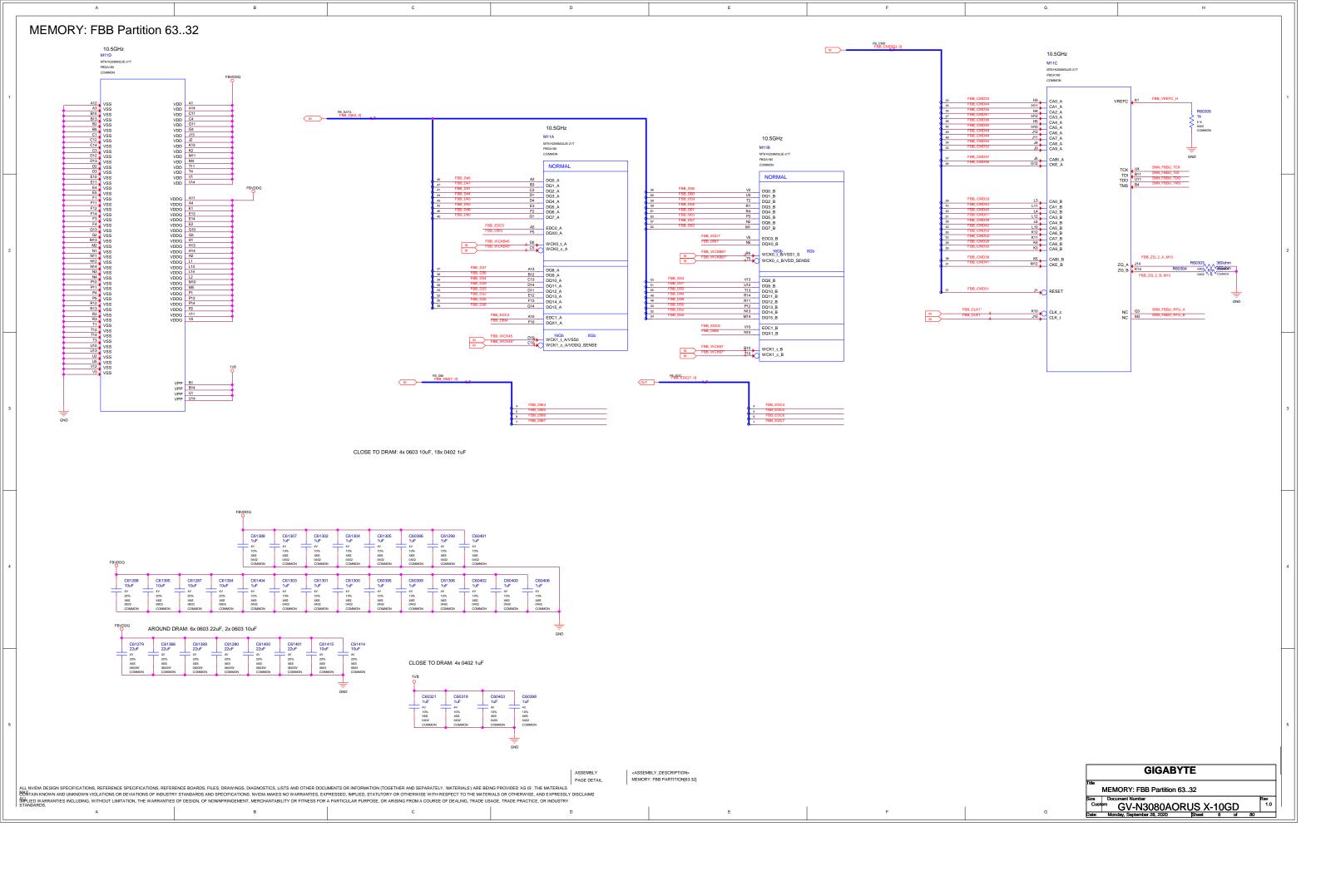


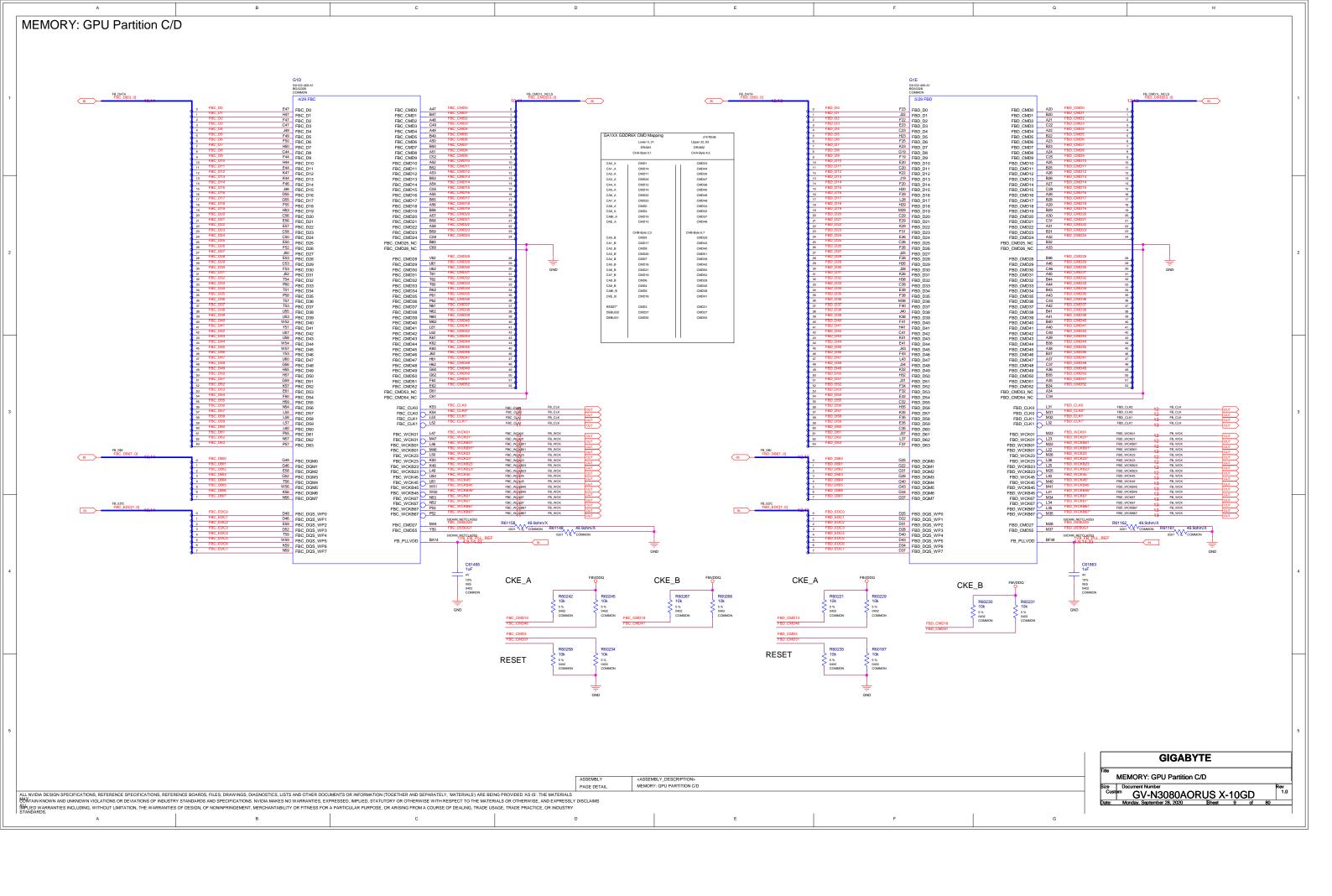


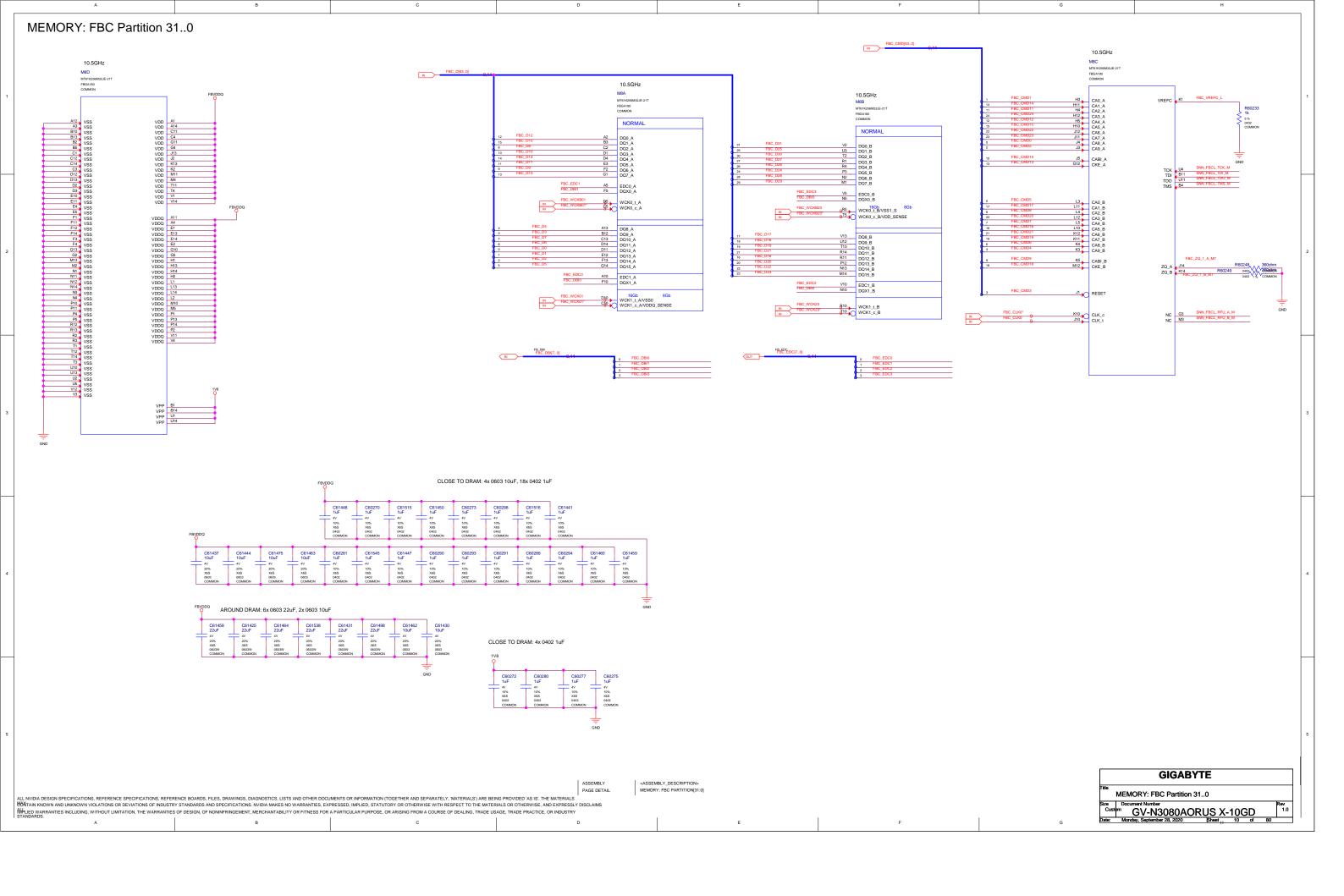


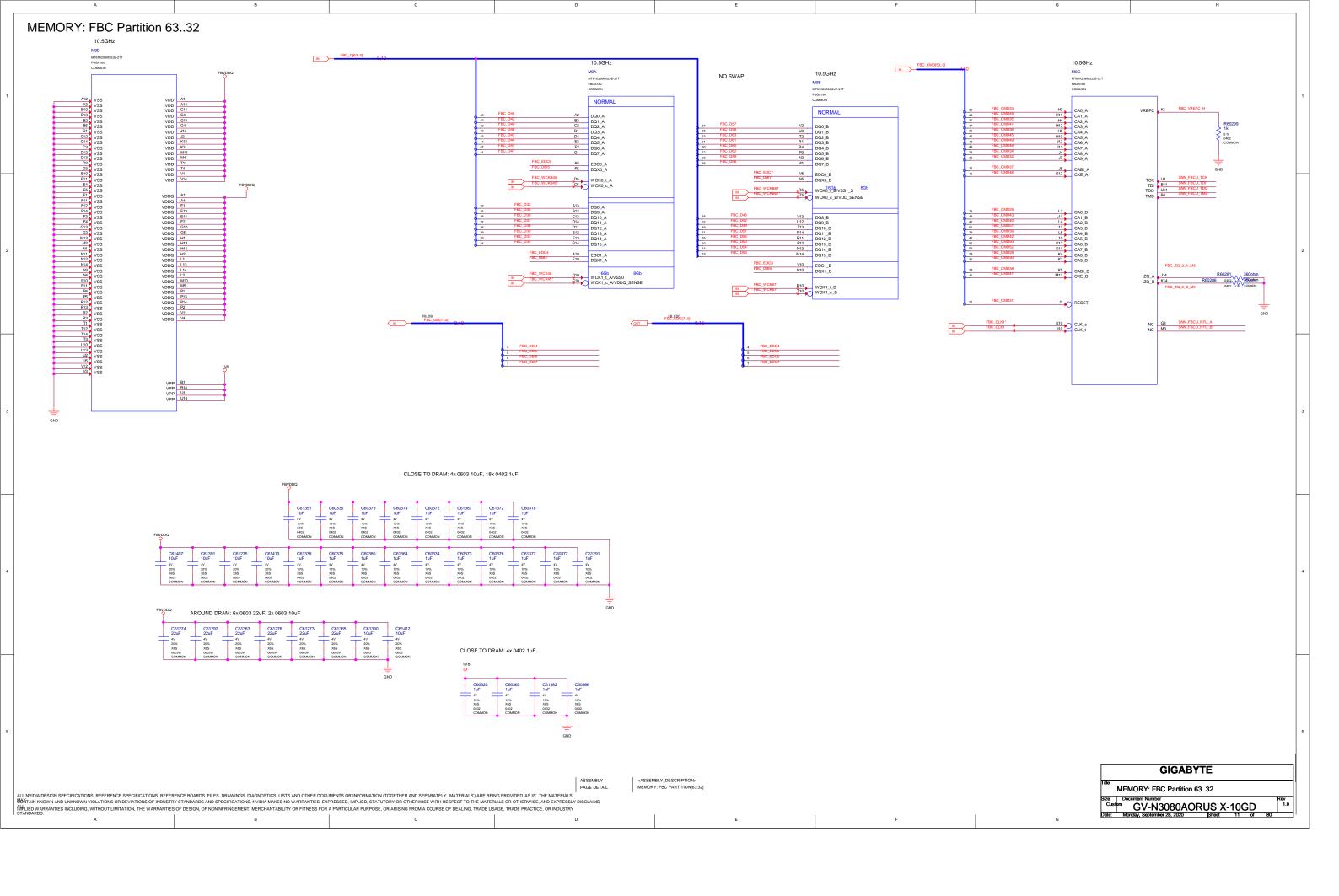


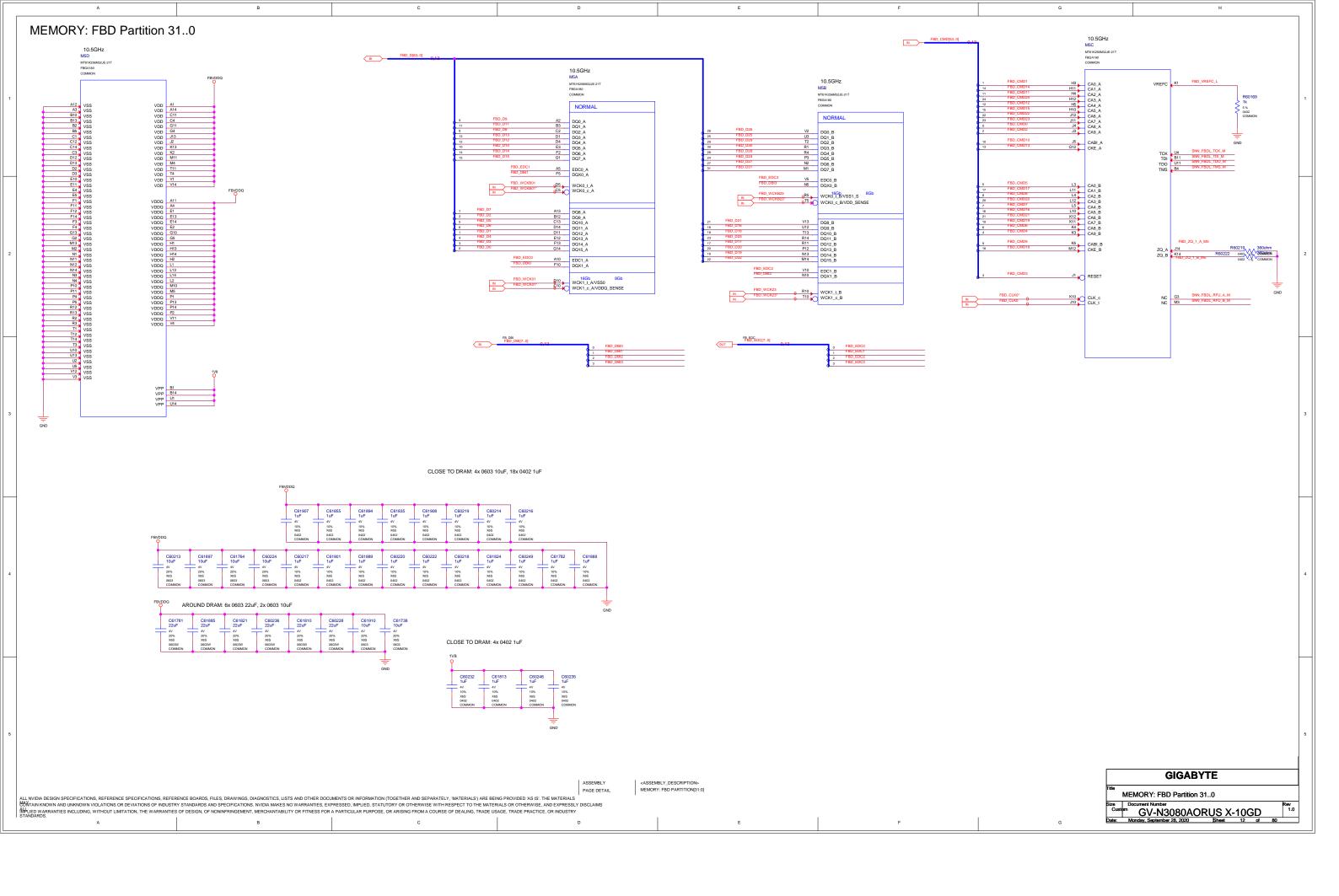


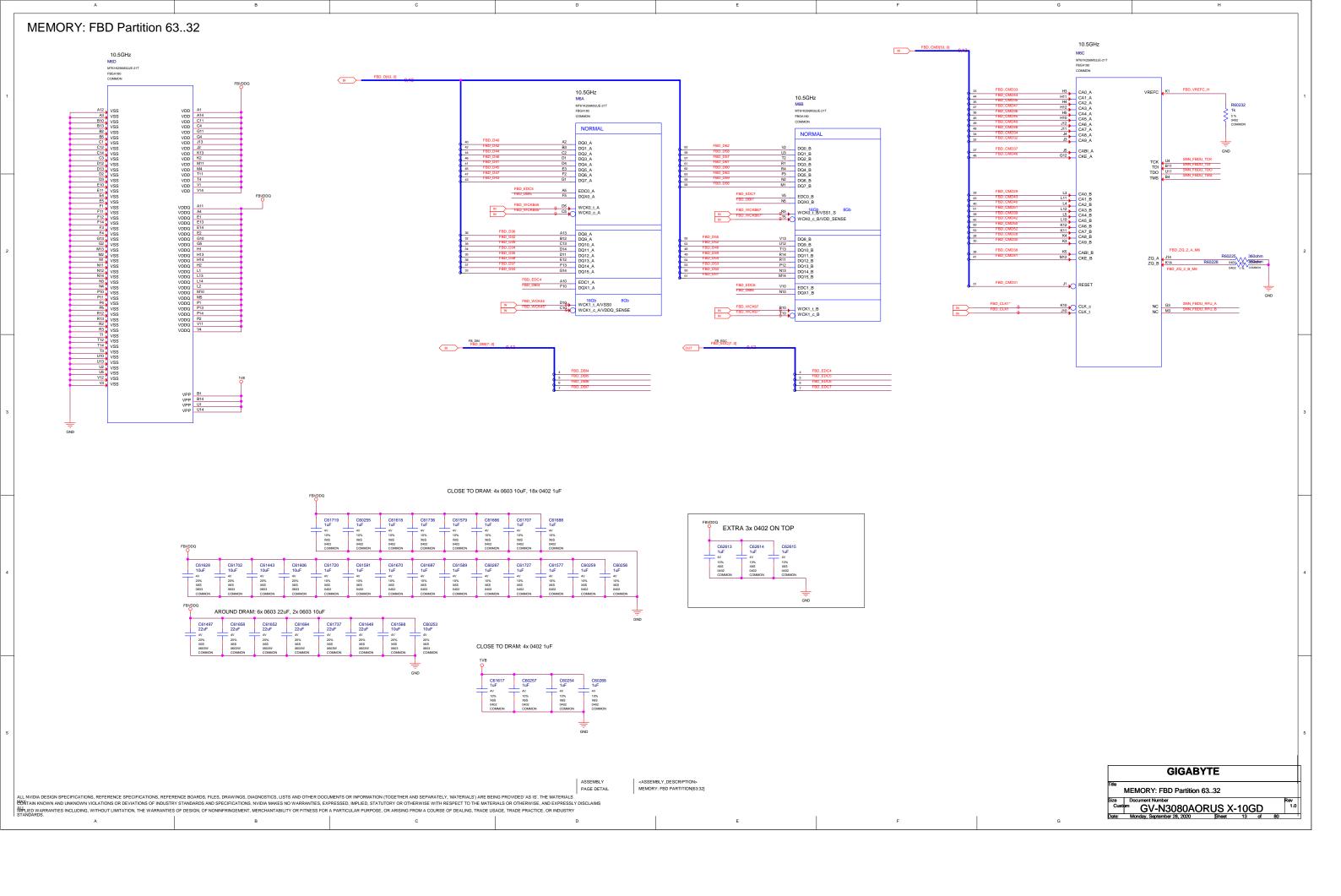


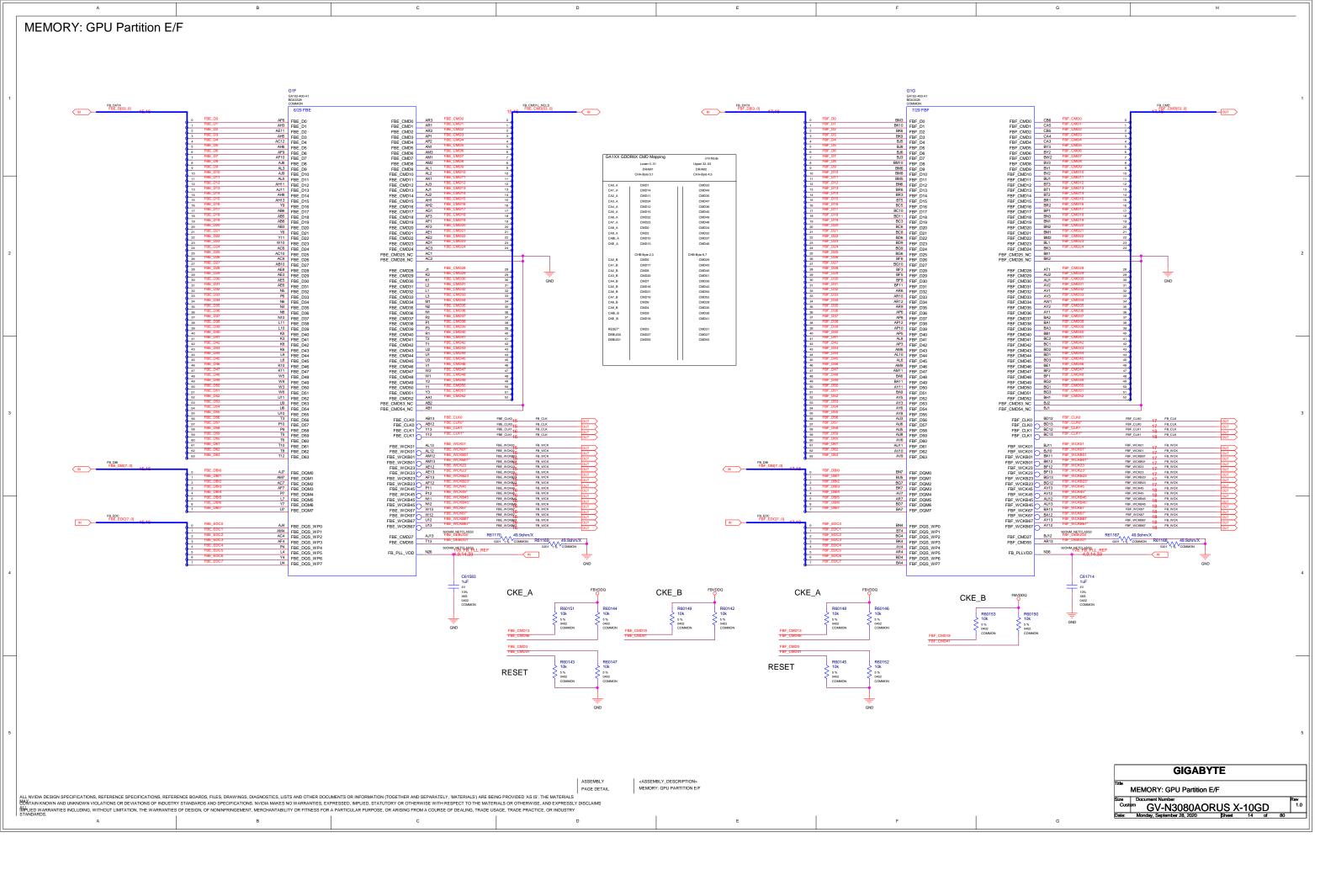


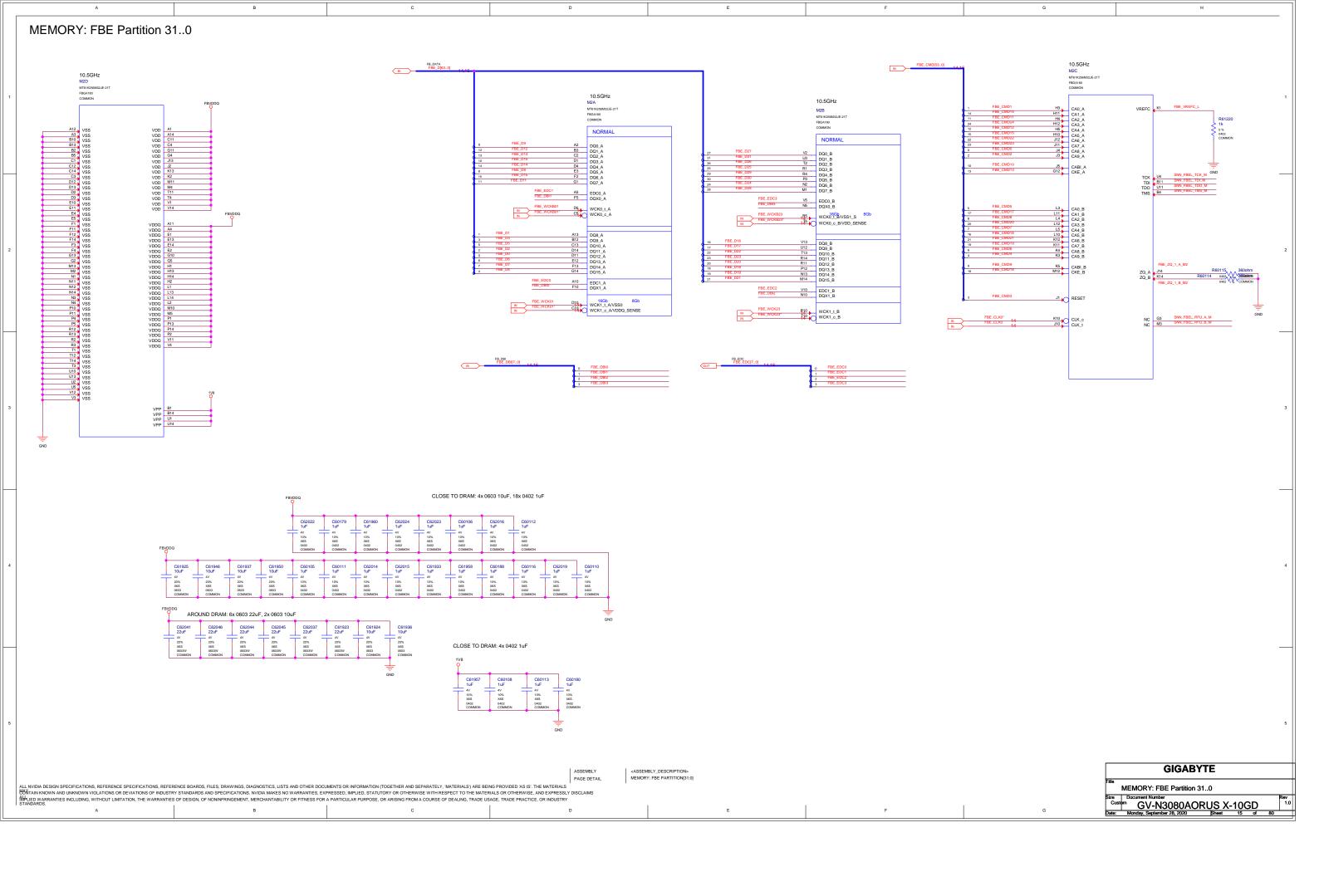


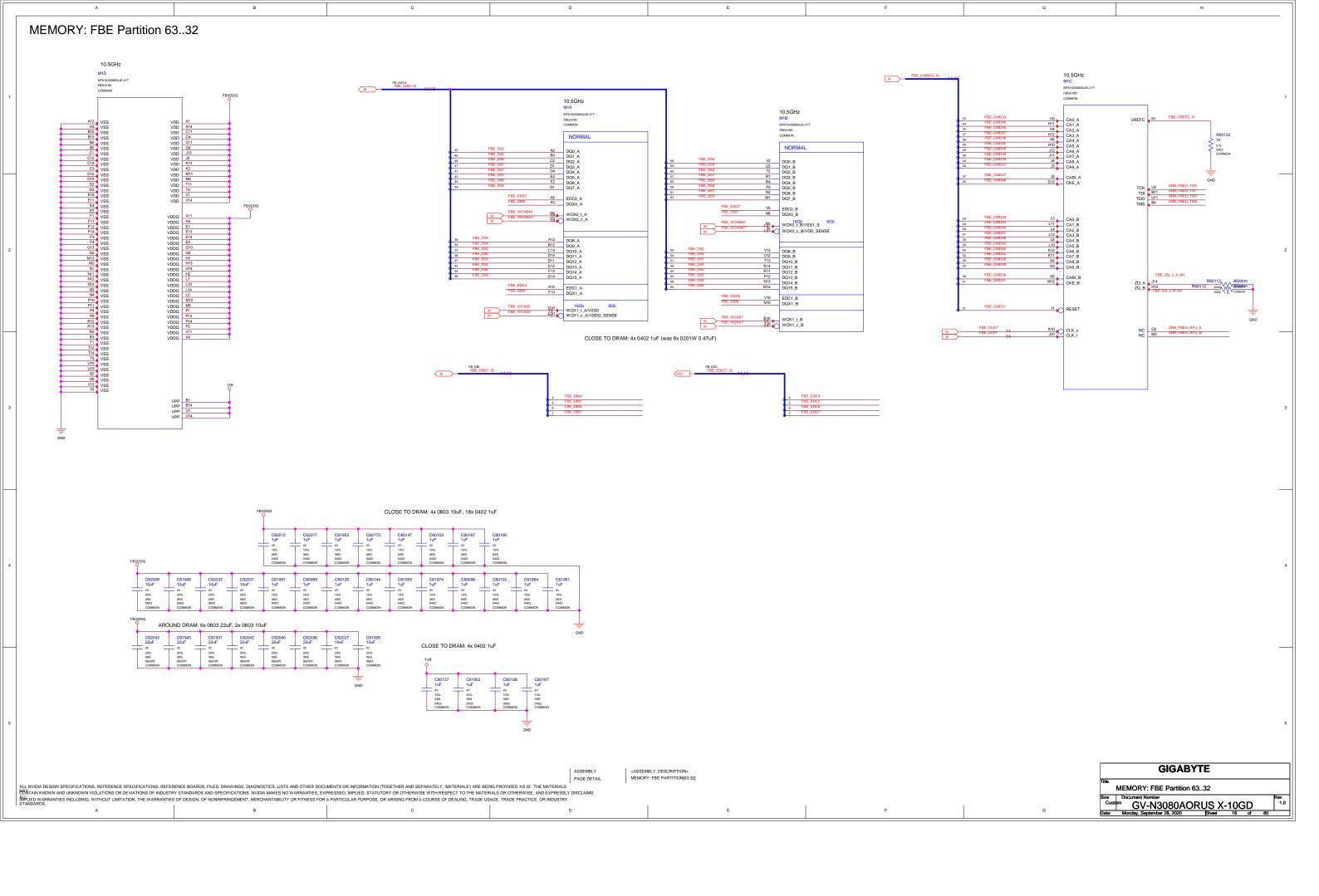


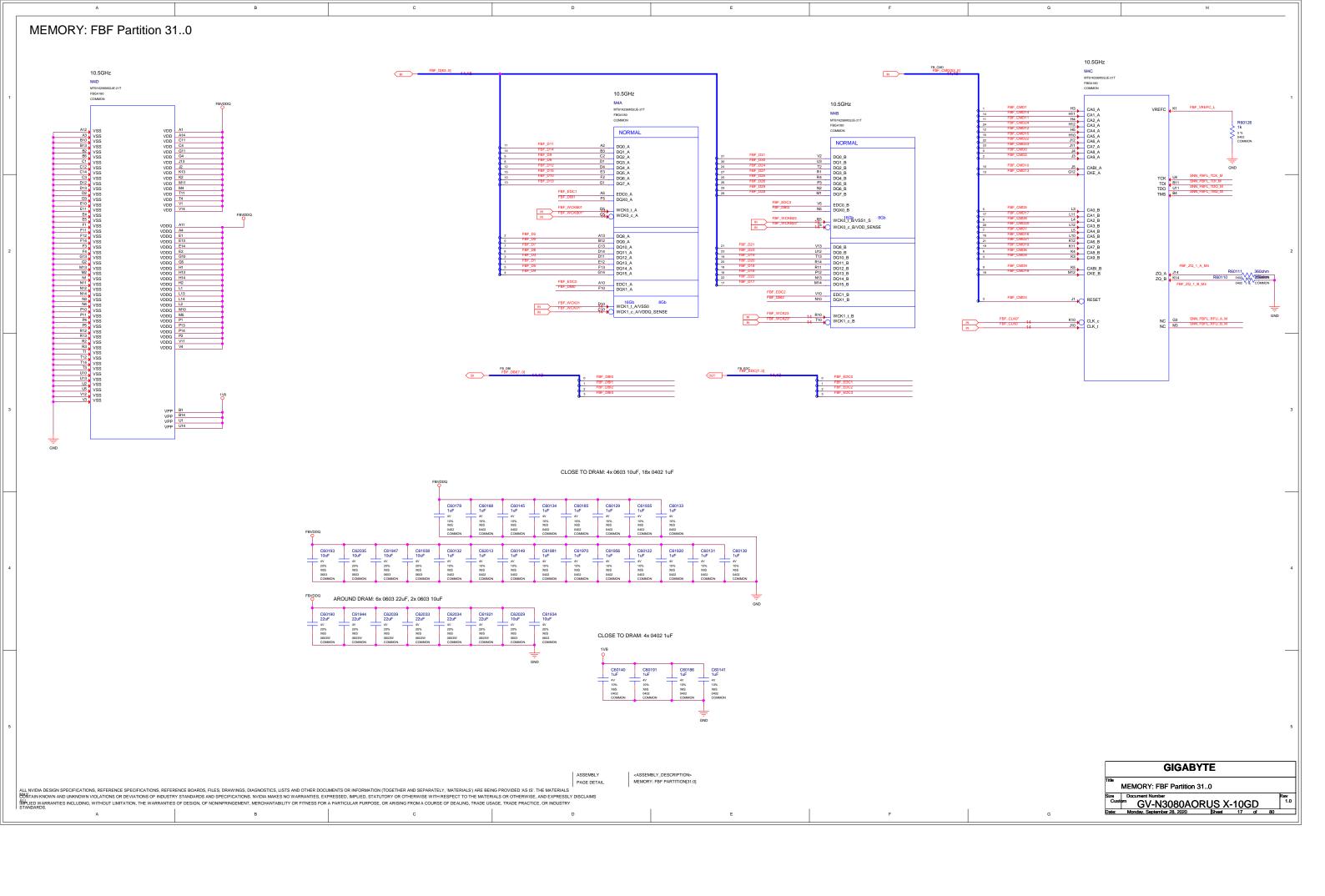


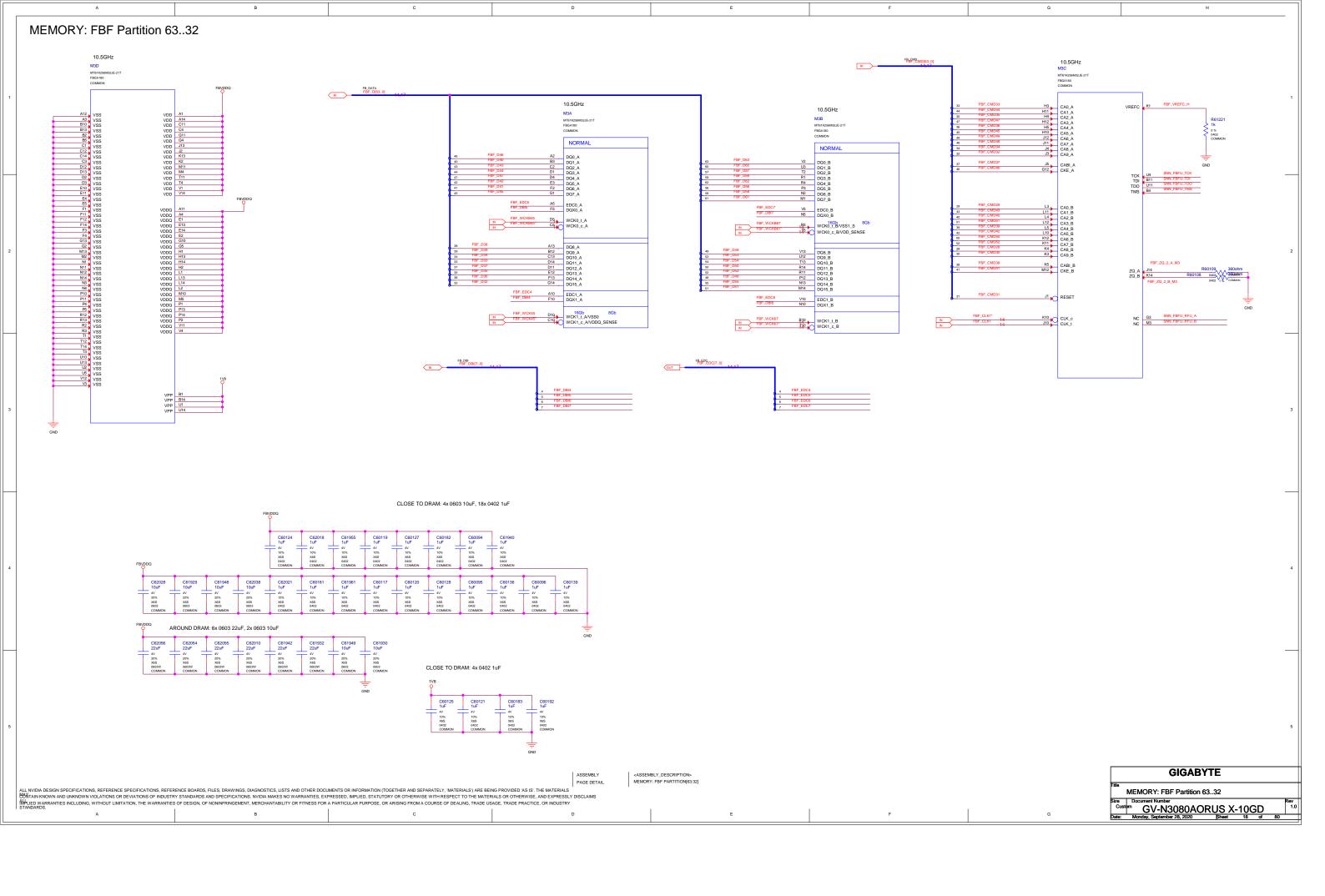


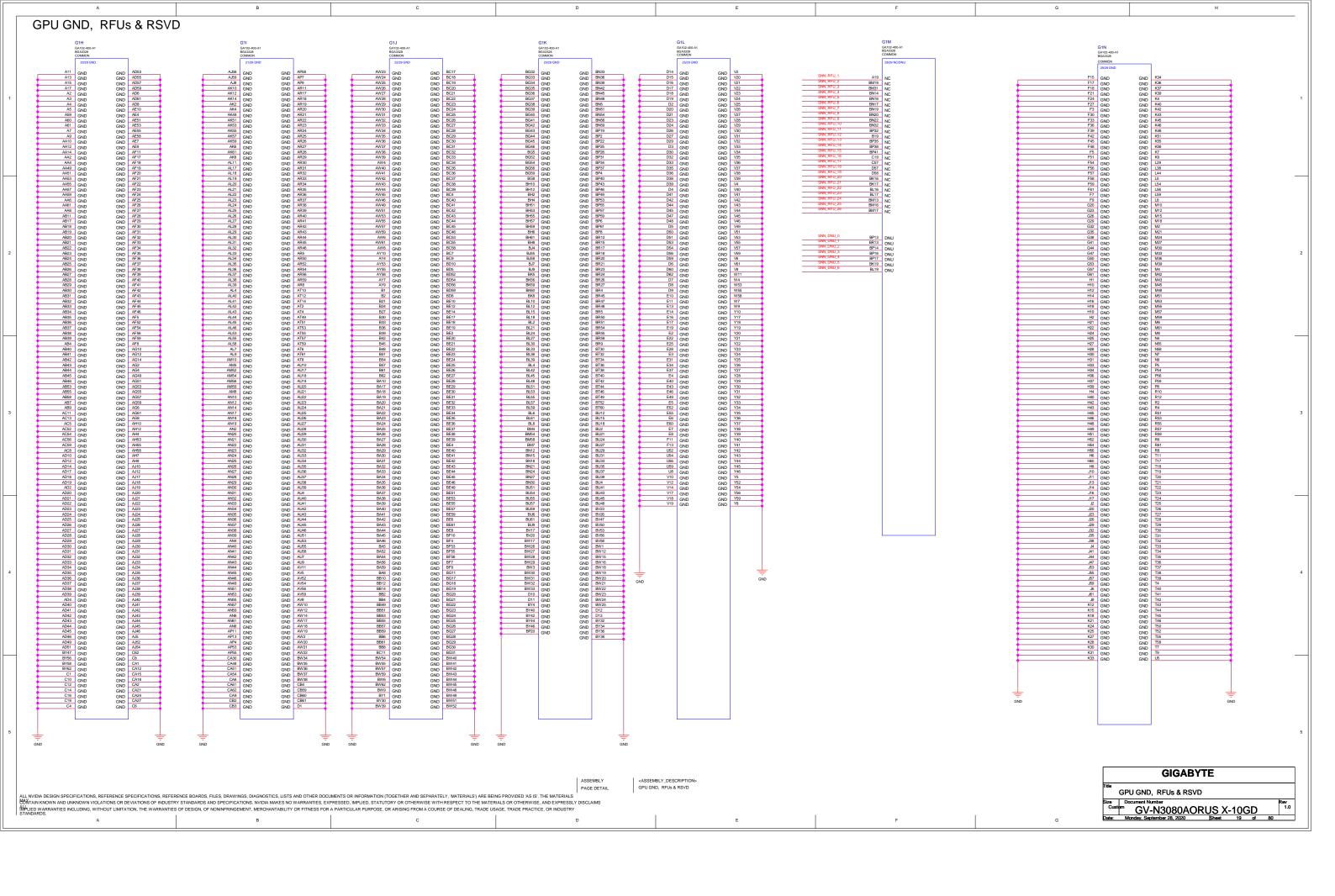


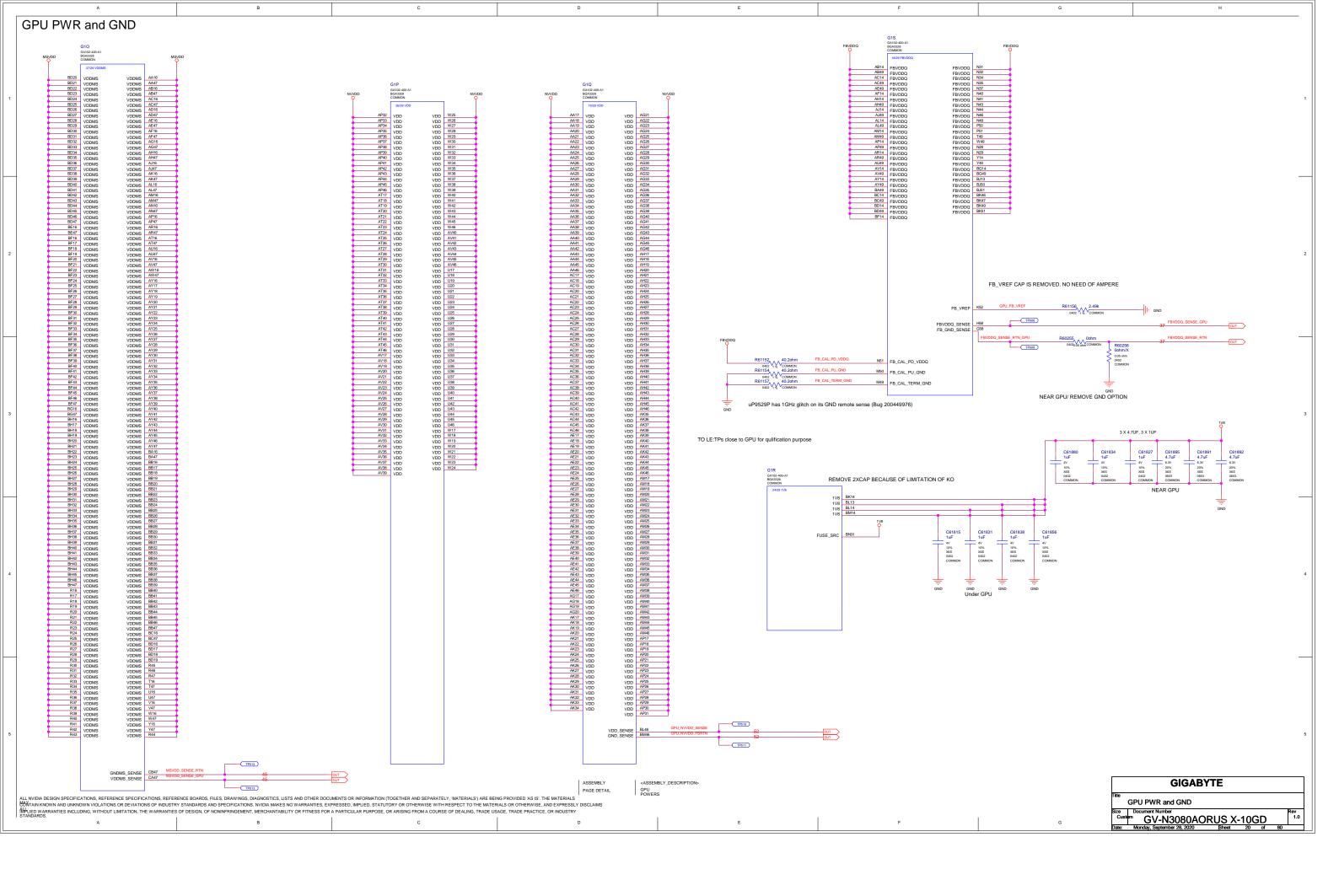


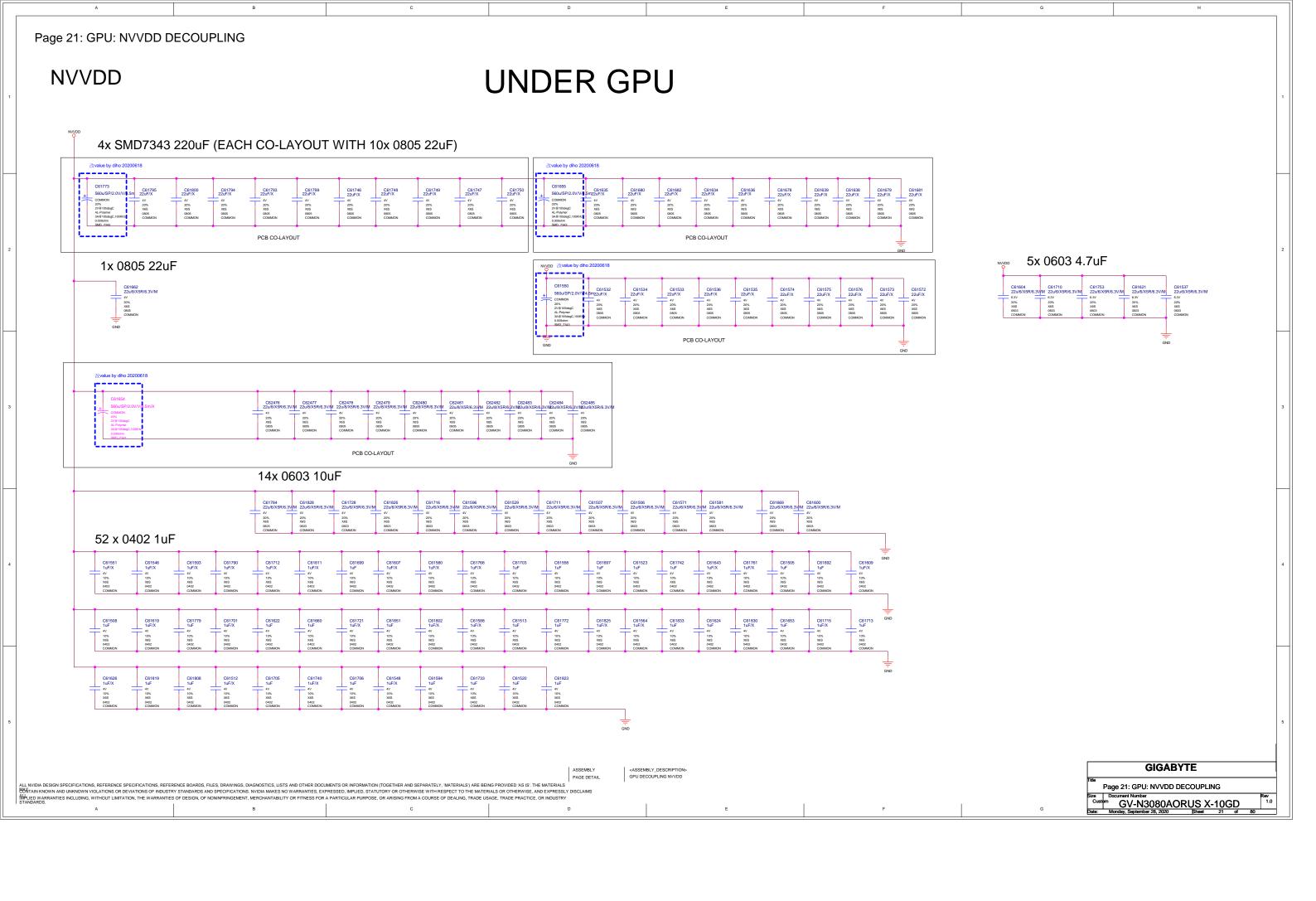






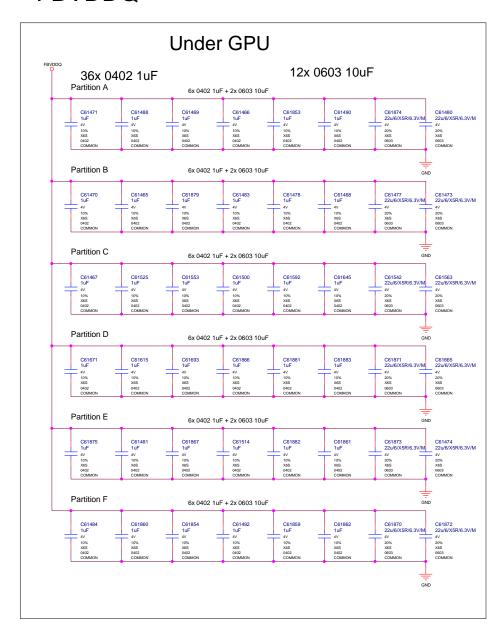


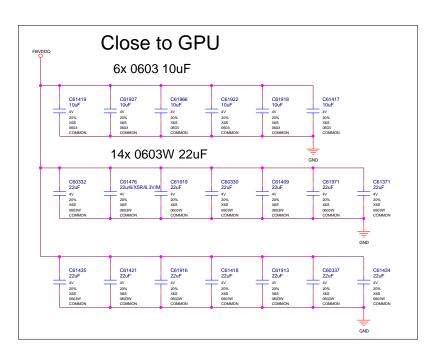




Page 22: GPU: FBVDD DECOUPLING

## **FBVDDQ**





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GPU DECOUPLING FBVDDQ

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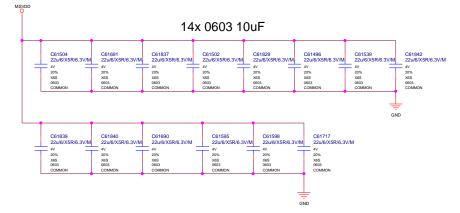
Page 22: GPU: FBVDD DECOUPLING



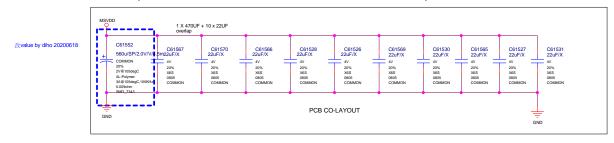
#### Page 23: GPU: MSVDD DECOUPLING

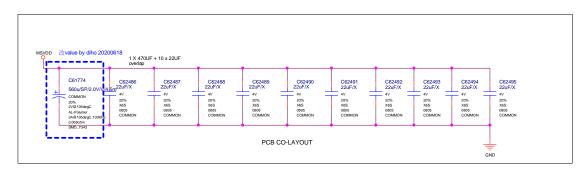
### **MSVDD**

# **UNDER GPU**



#### 2x SMD7343 220uF (EACH CO-LAYOUT WITH 10x 22uF 0805)





47x 0402 1uF

REMOVED 3X 1uF 0402 DUE TO SPACE RESTRICTION

**GIGABYTE** Page 23: GPU: MSVDD DECOUPLING Size Document Number
Custom GV-N3080AORUS X-10GD

<ASSEMBLY\_DESCRIPTION: GPU DECOUPLING MSVDD

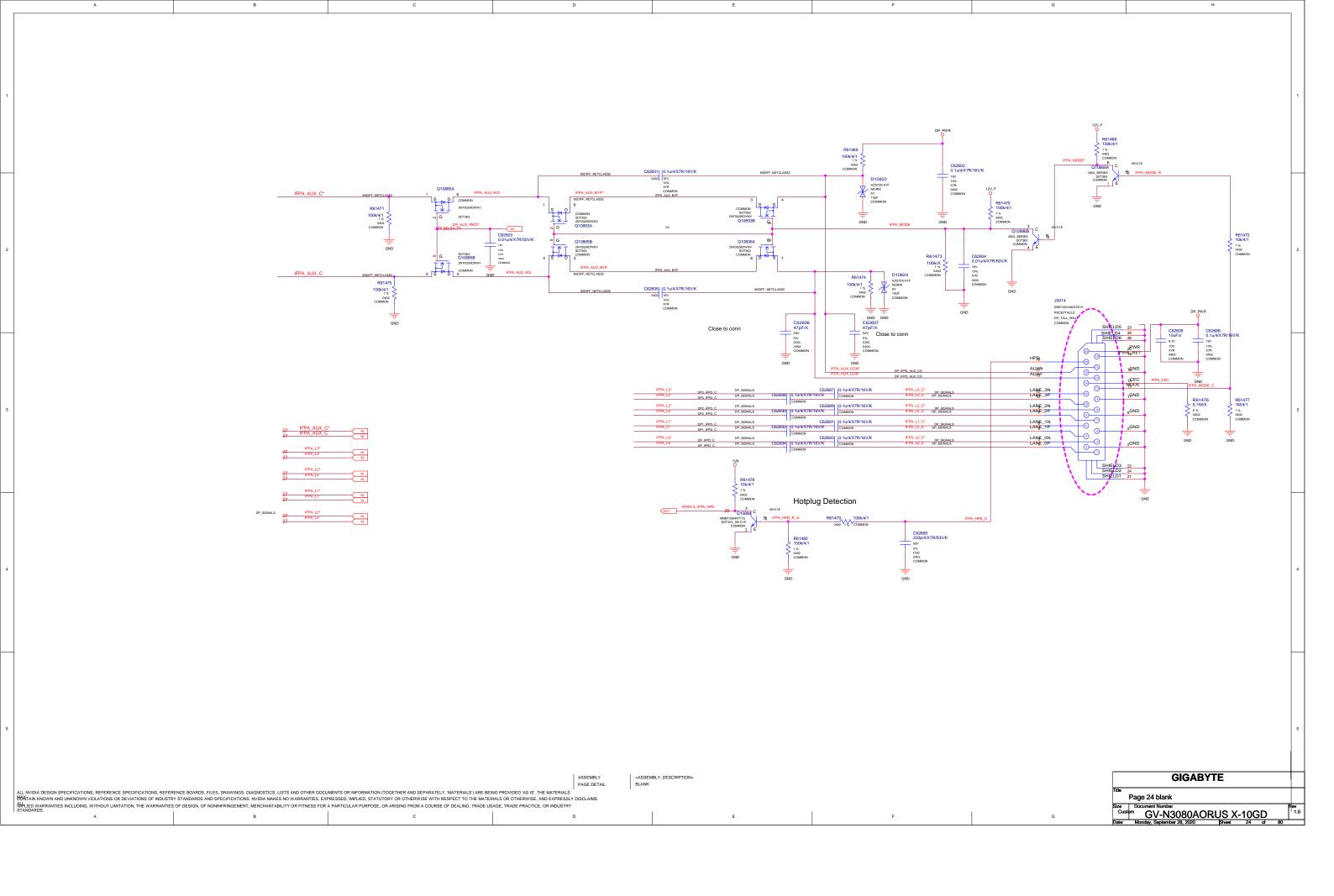
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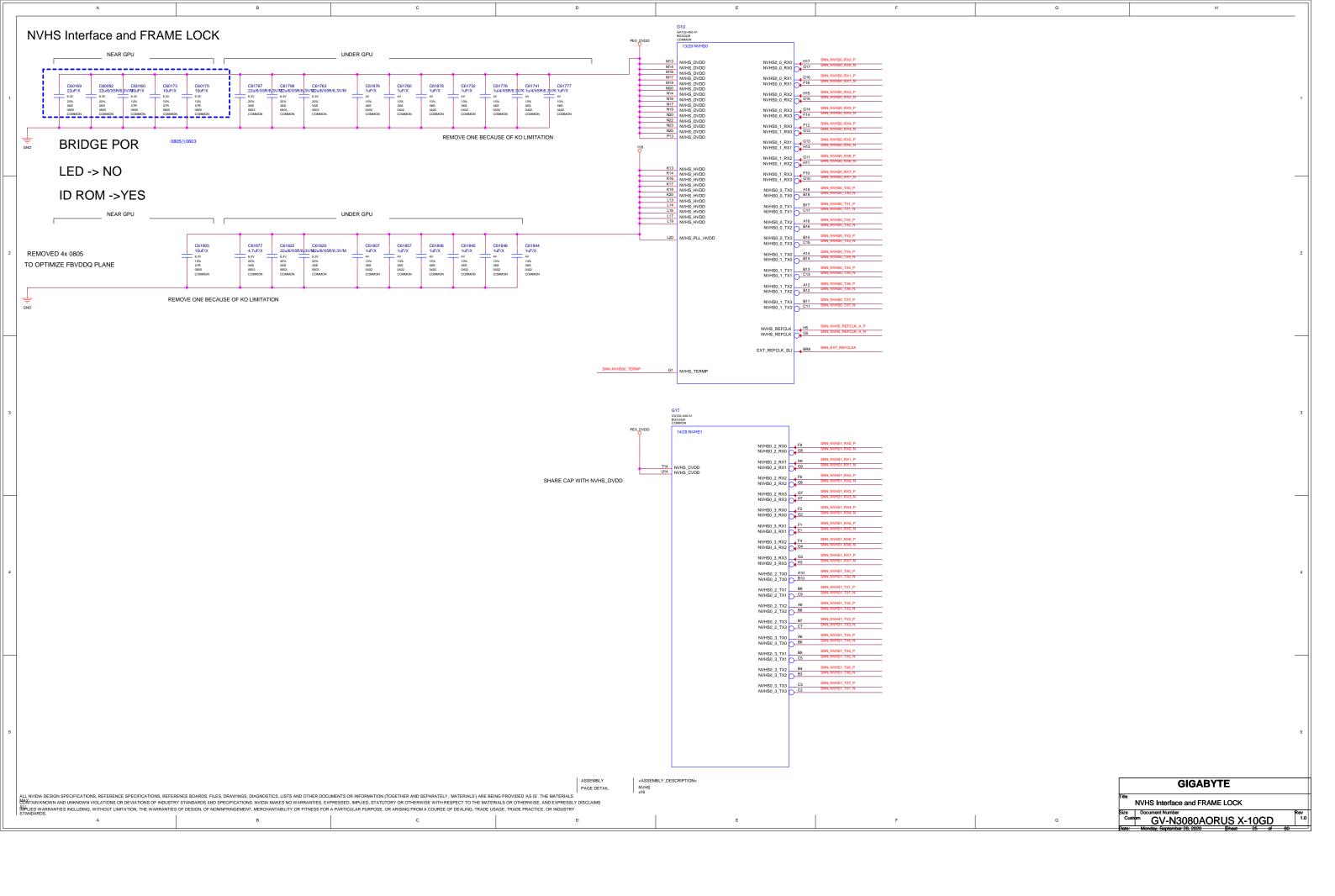
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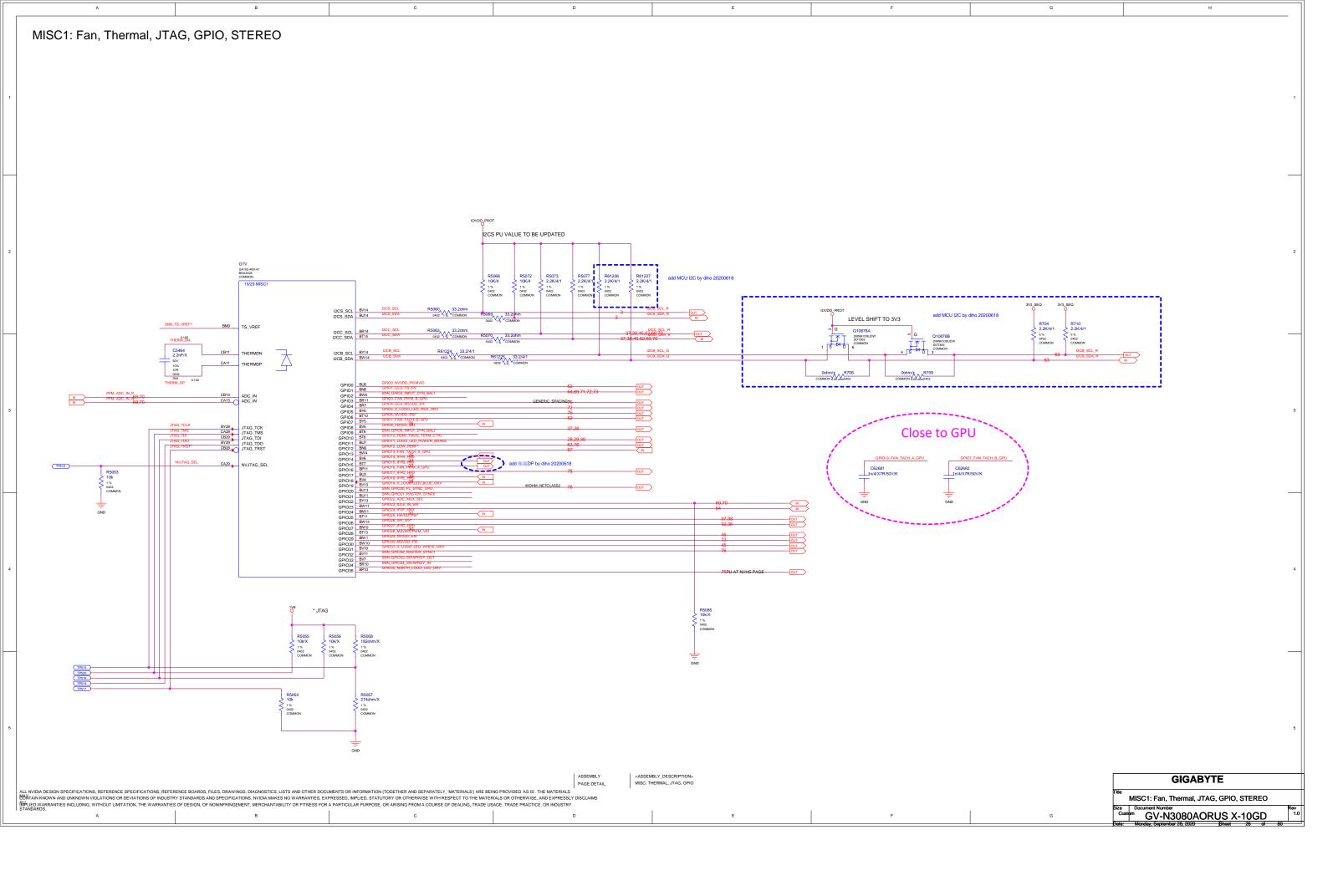
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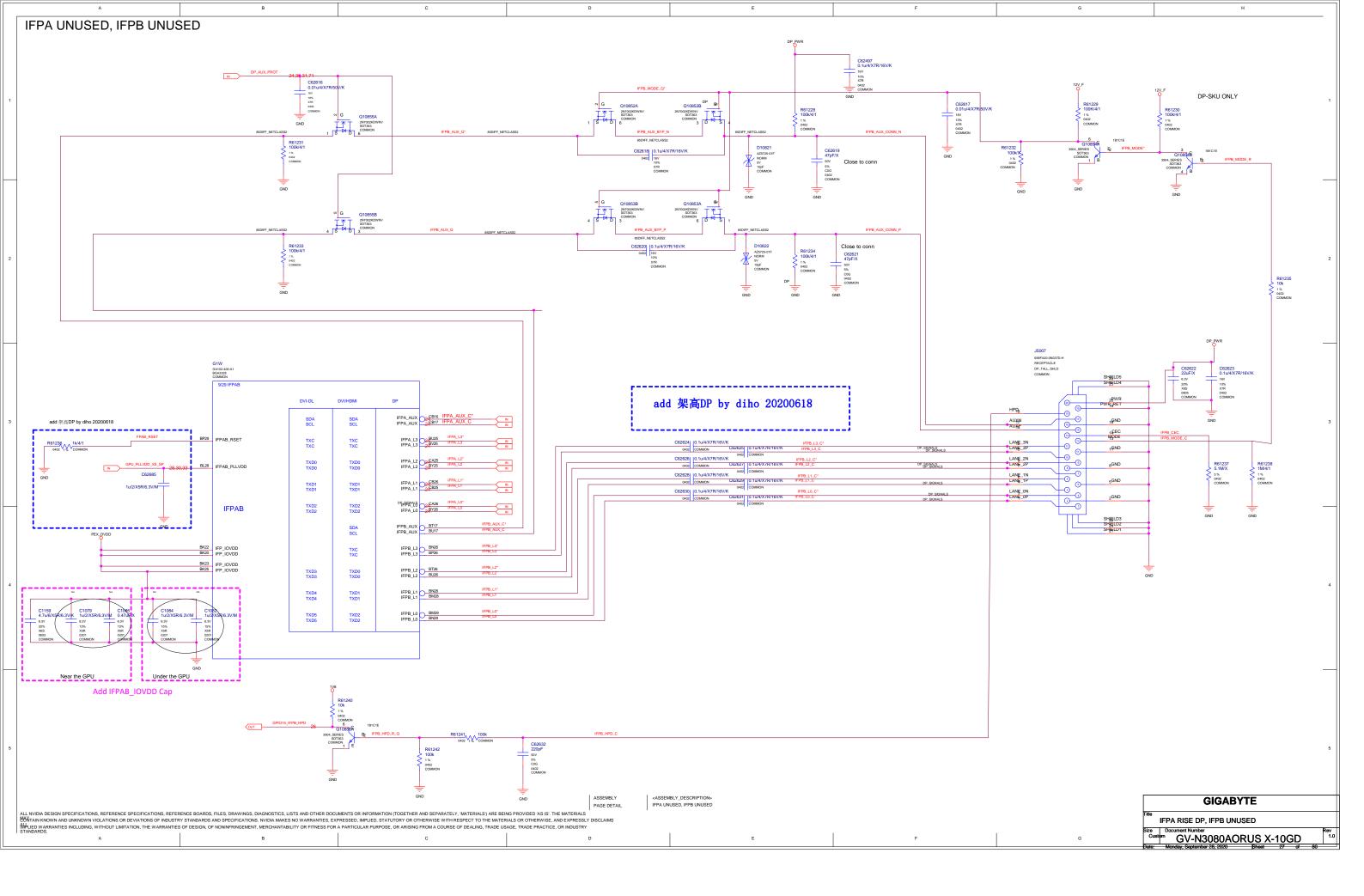
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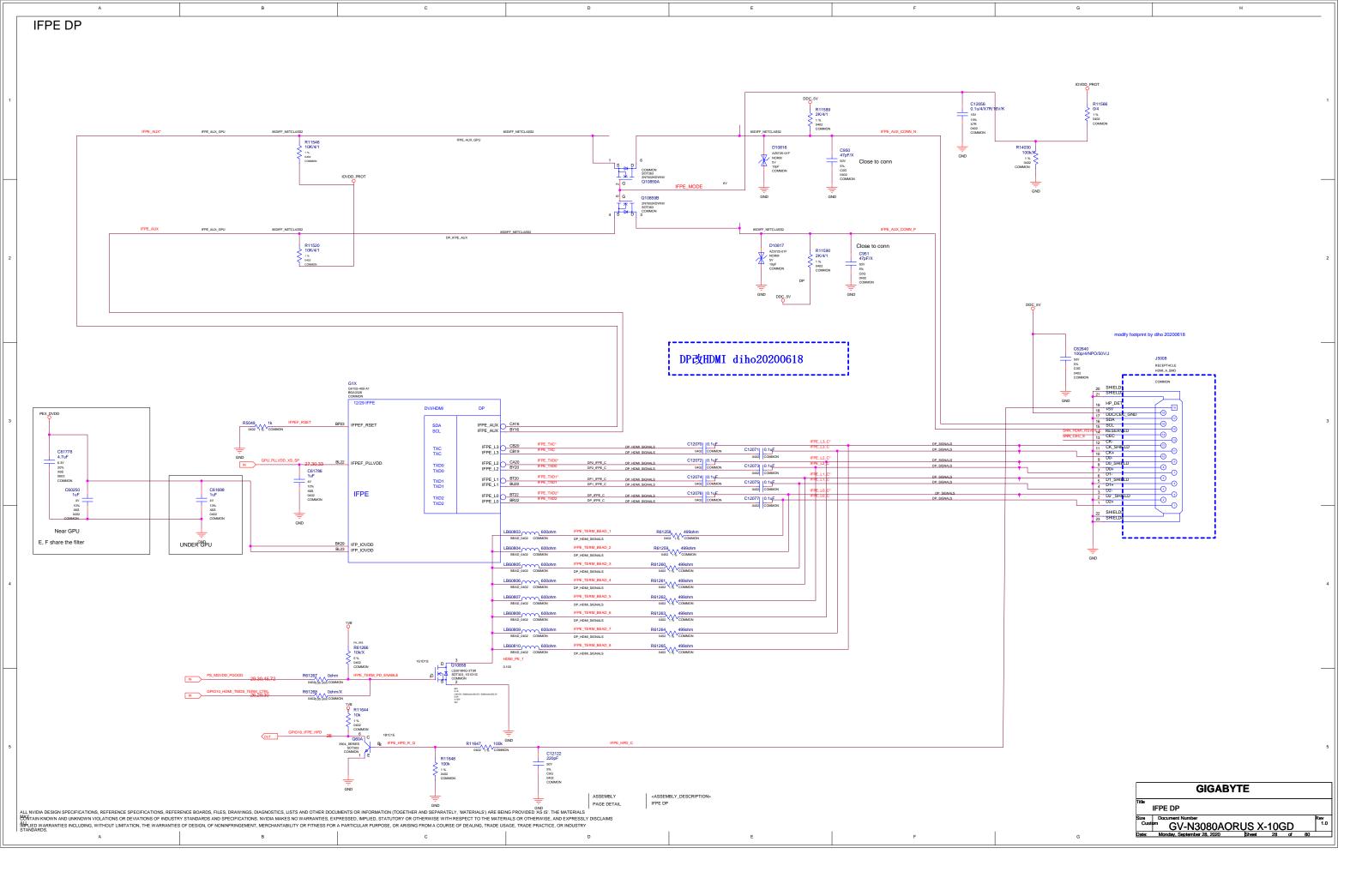
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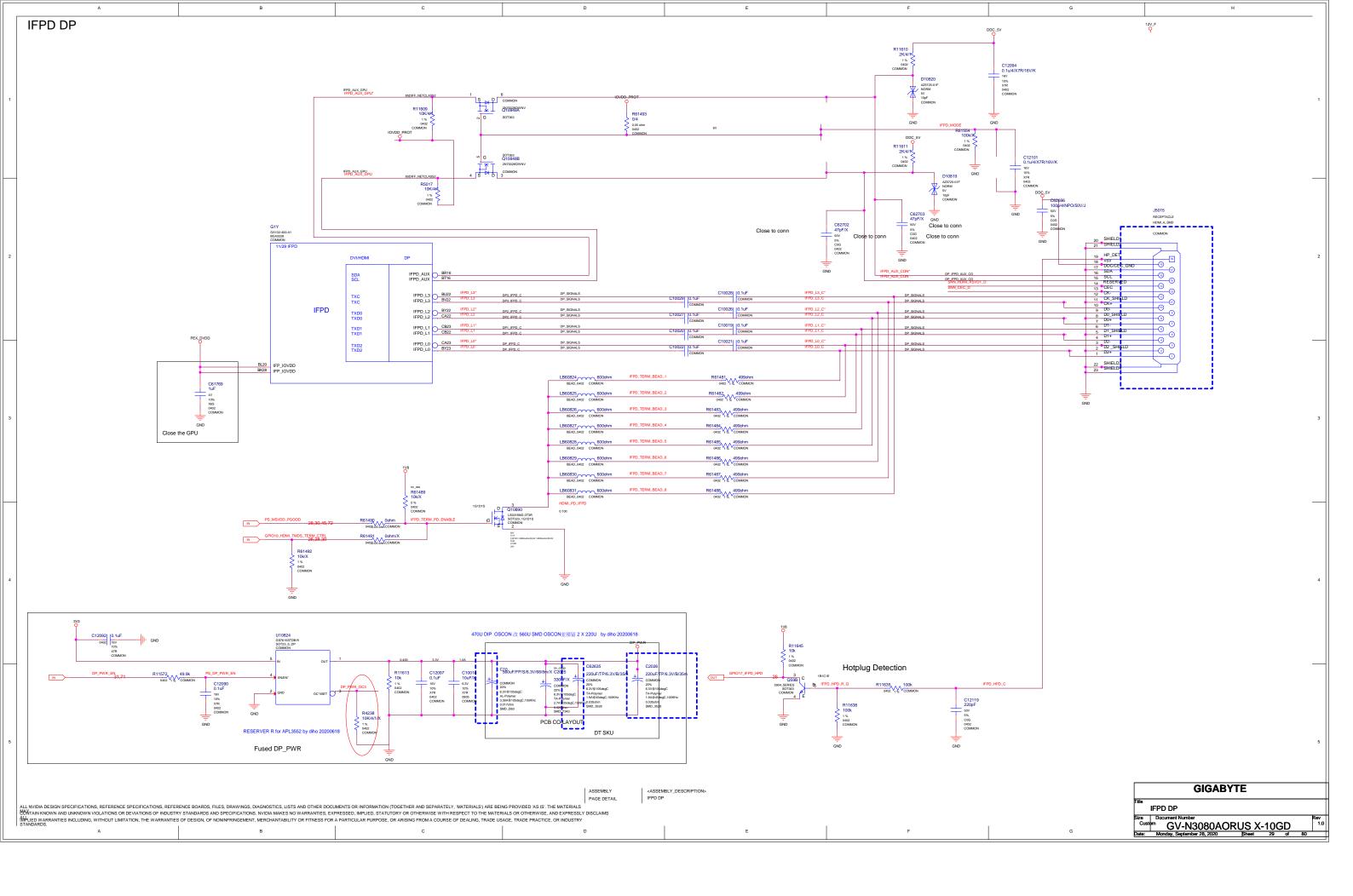


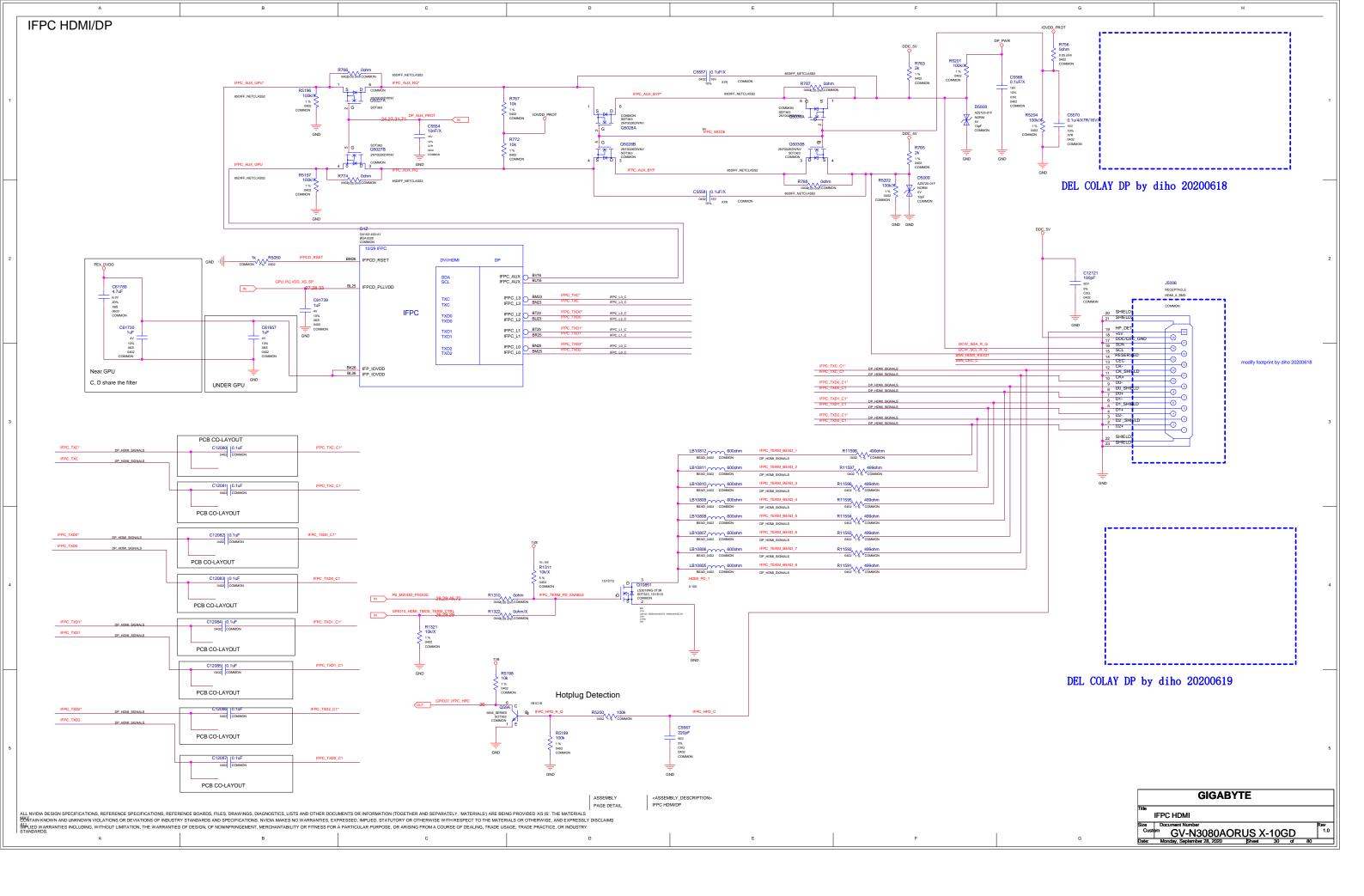


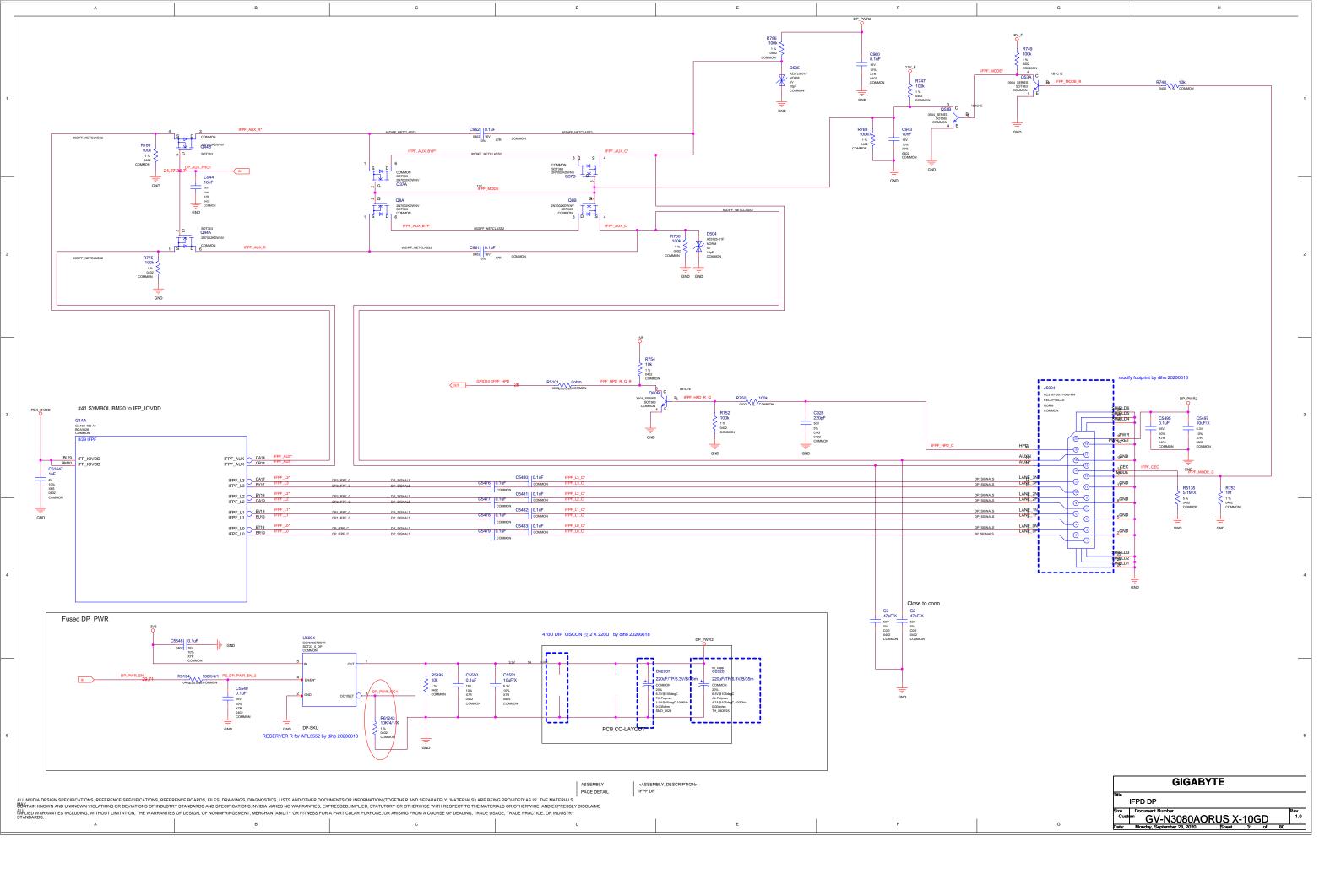


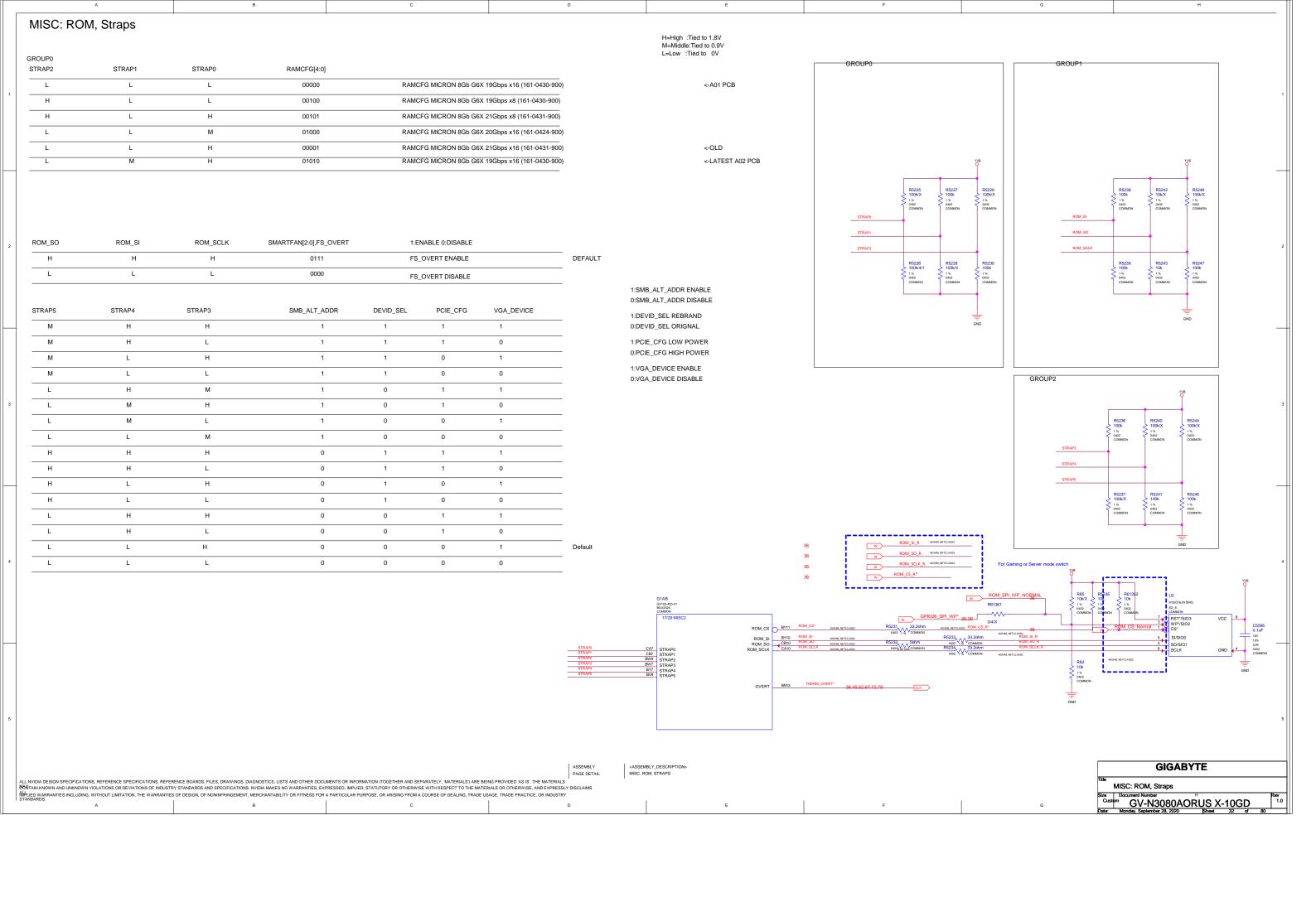


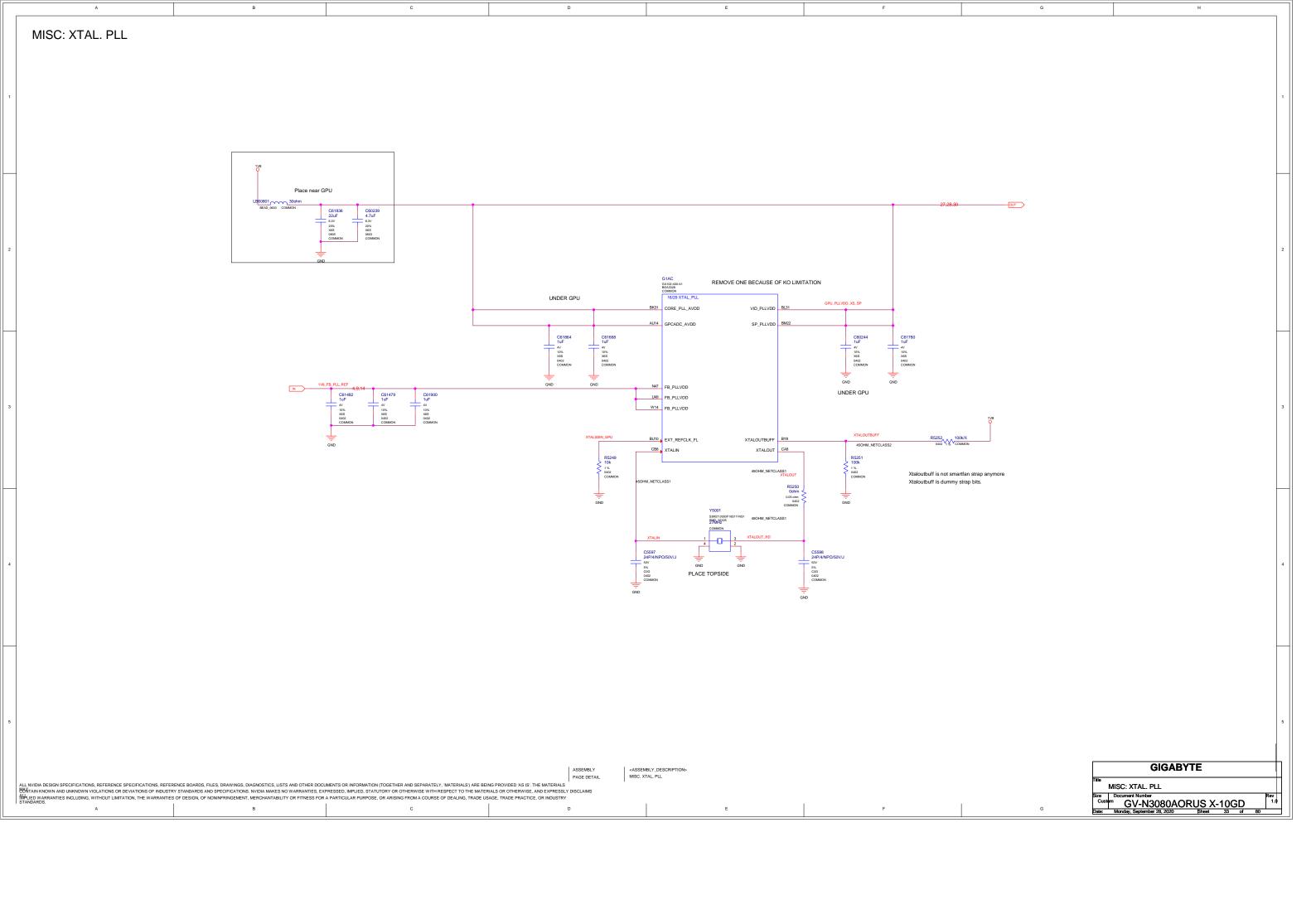


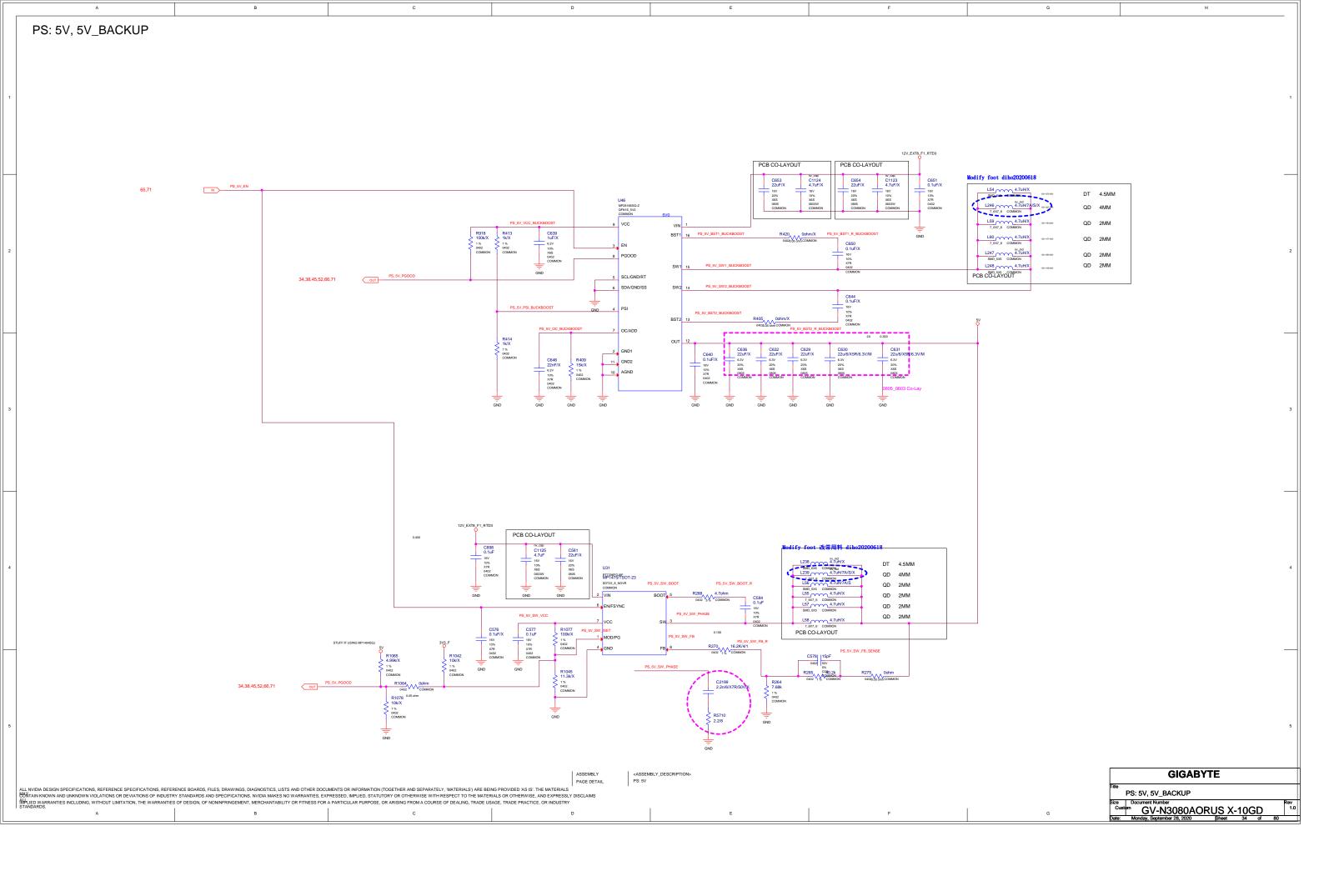


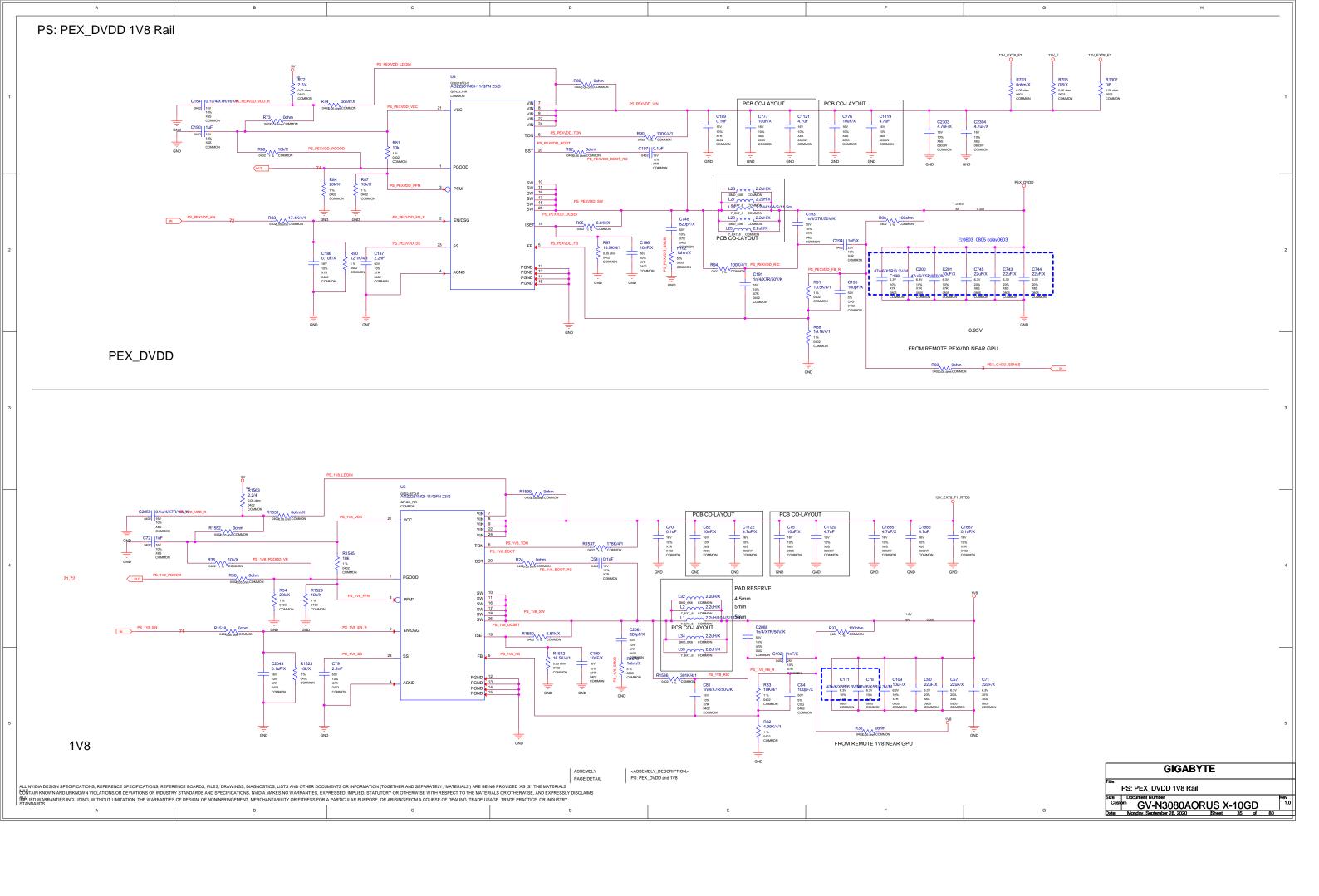


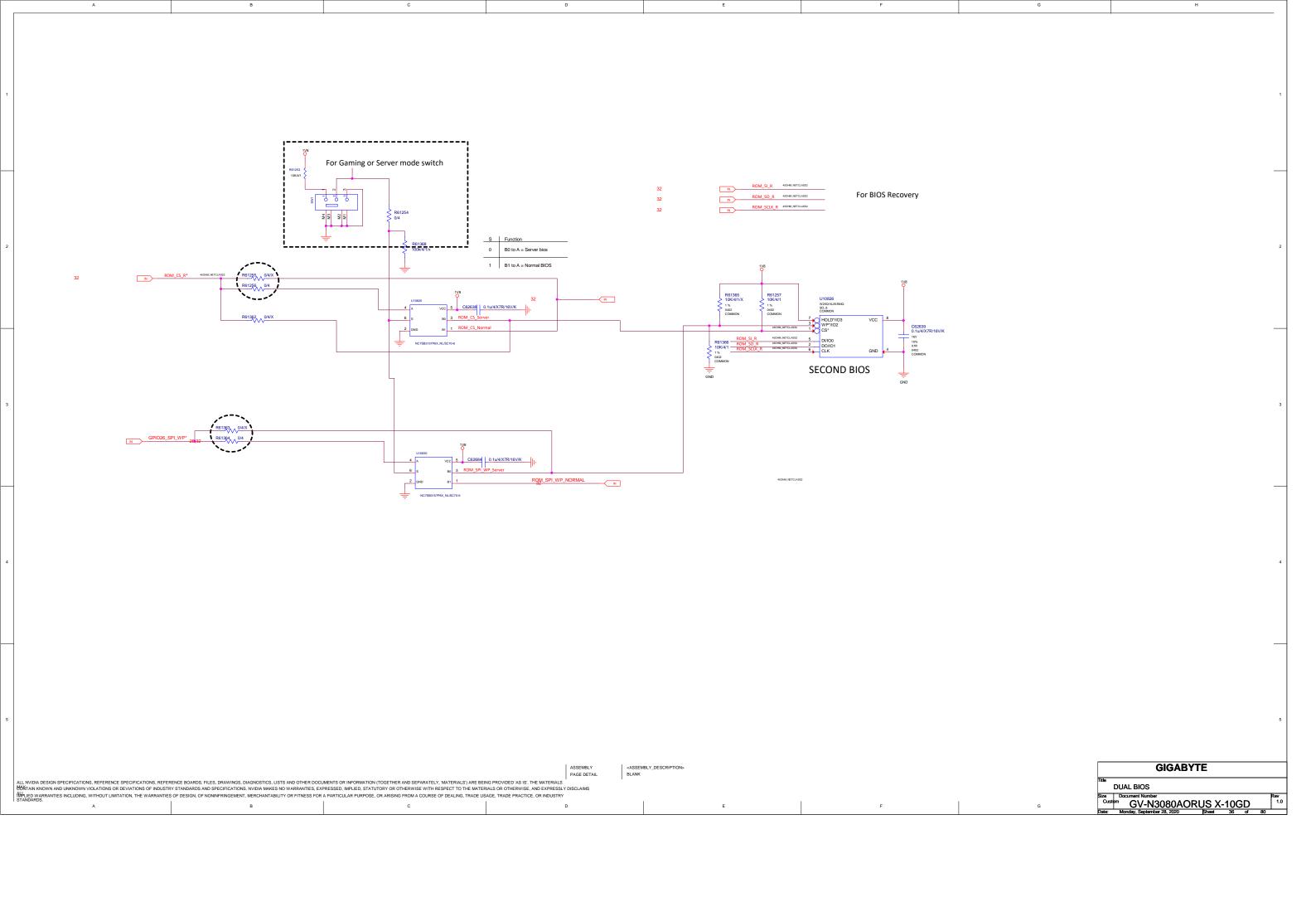


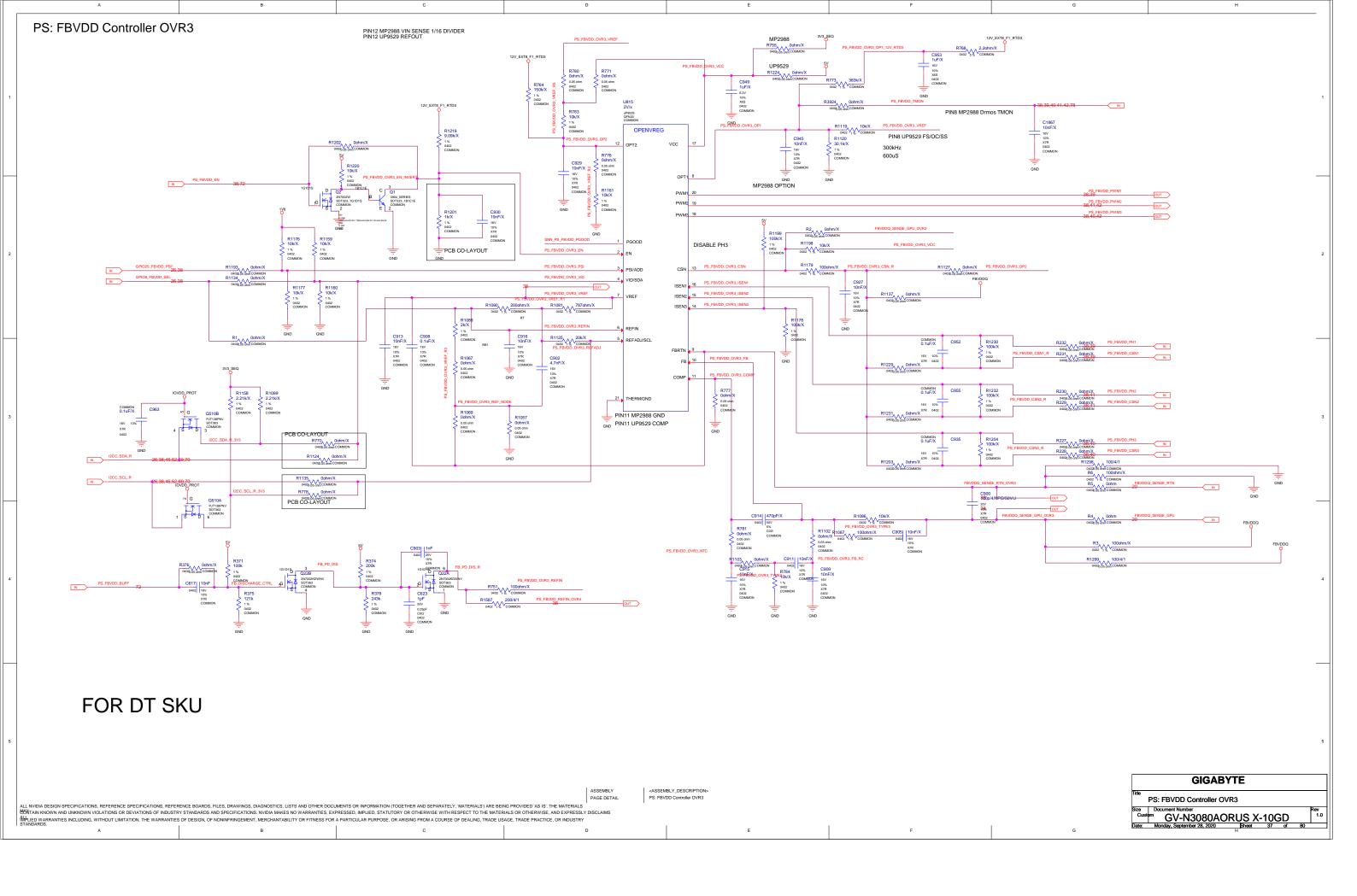


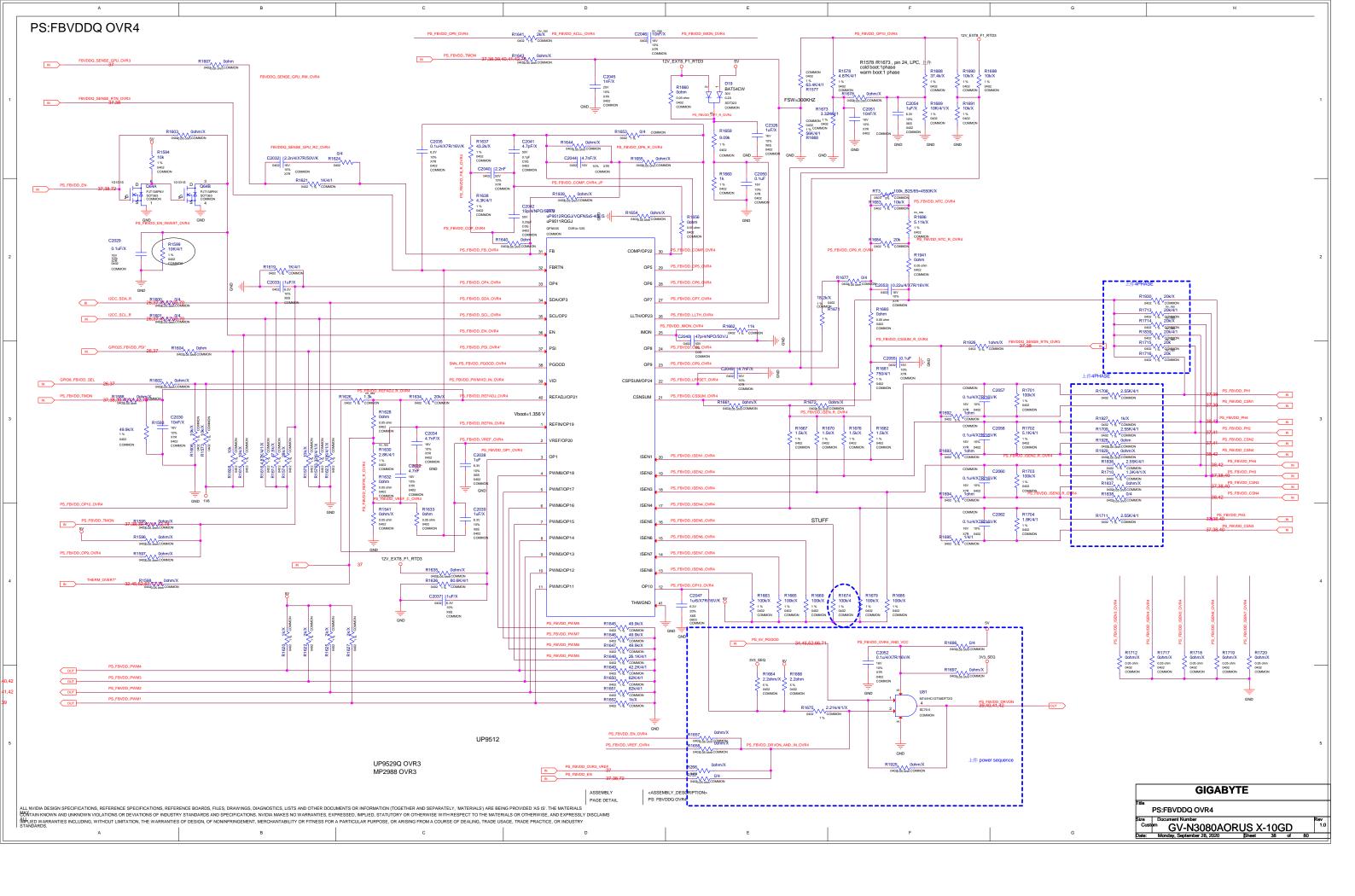


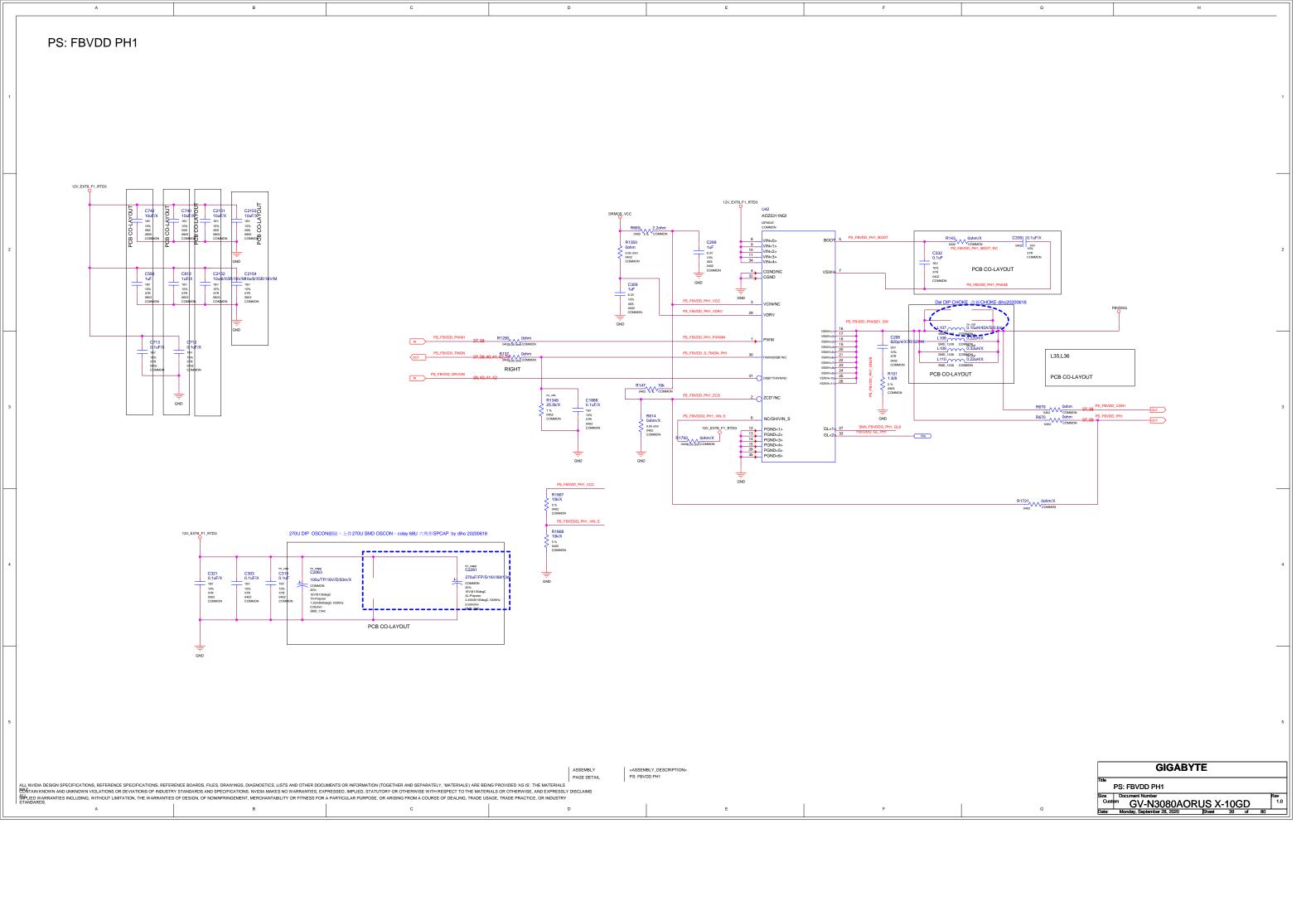


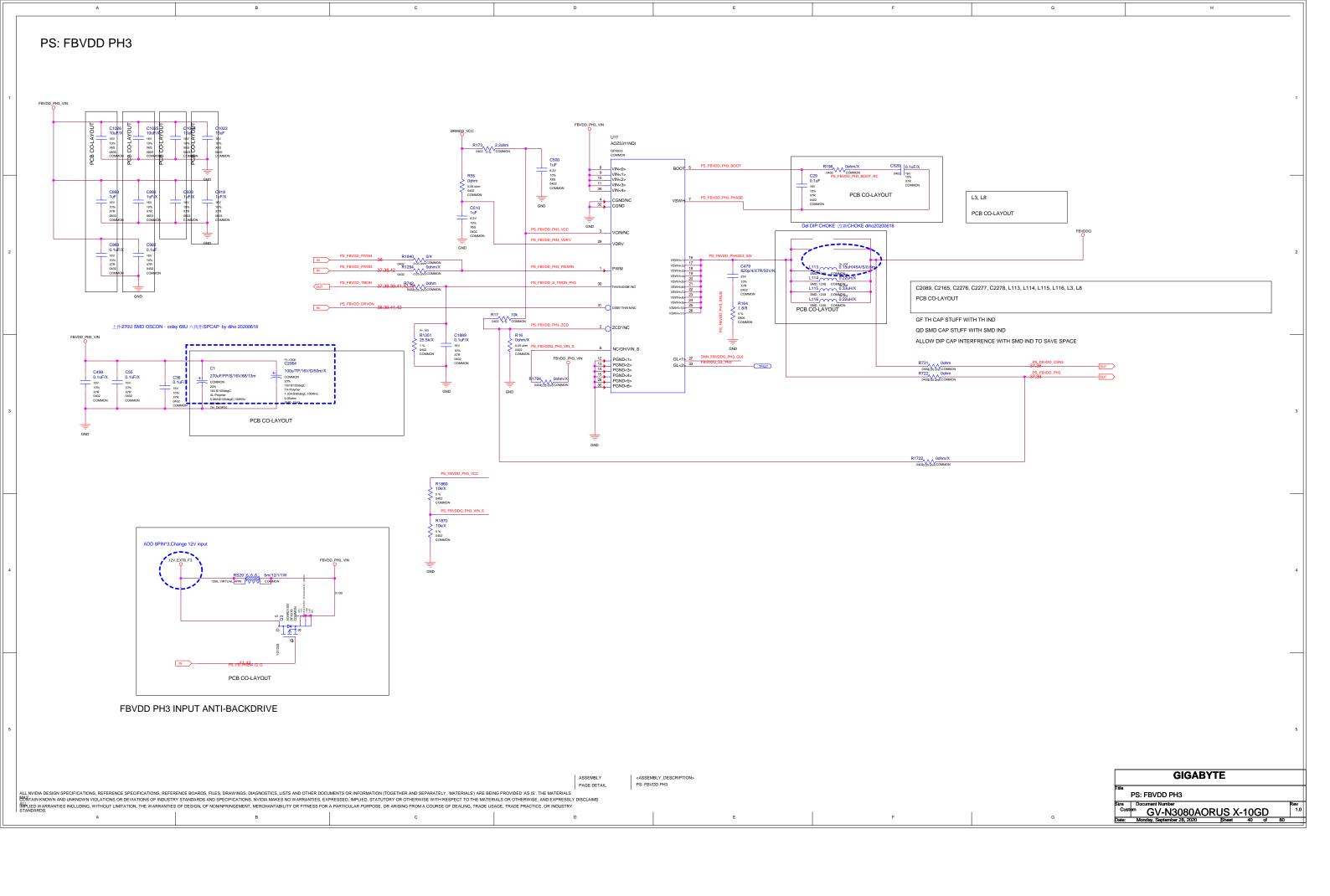


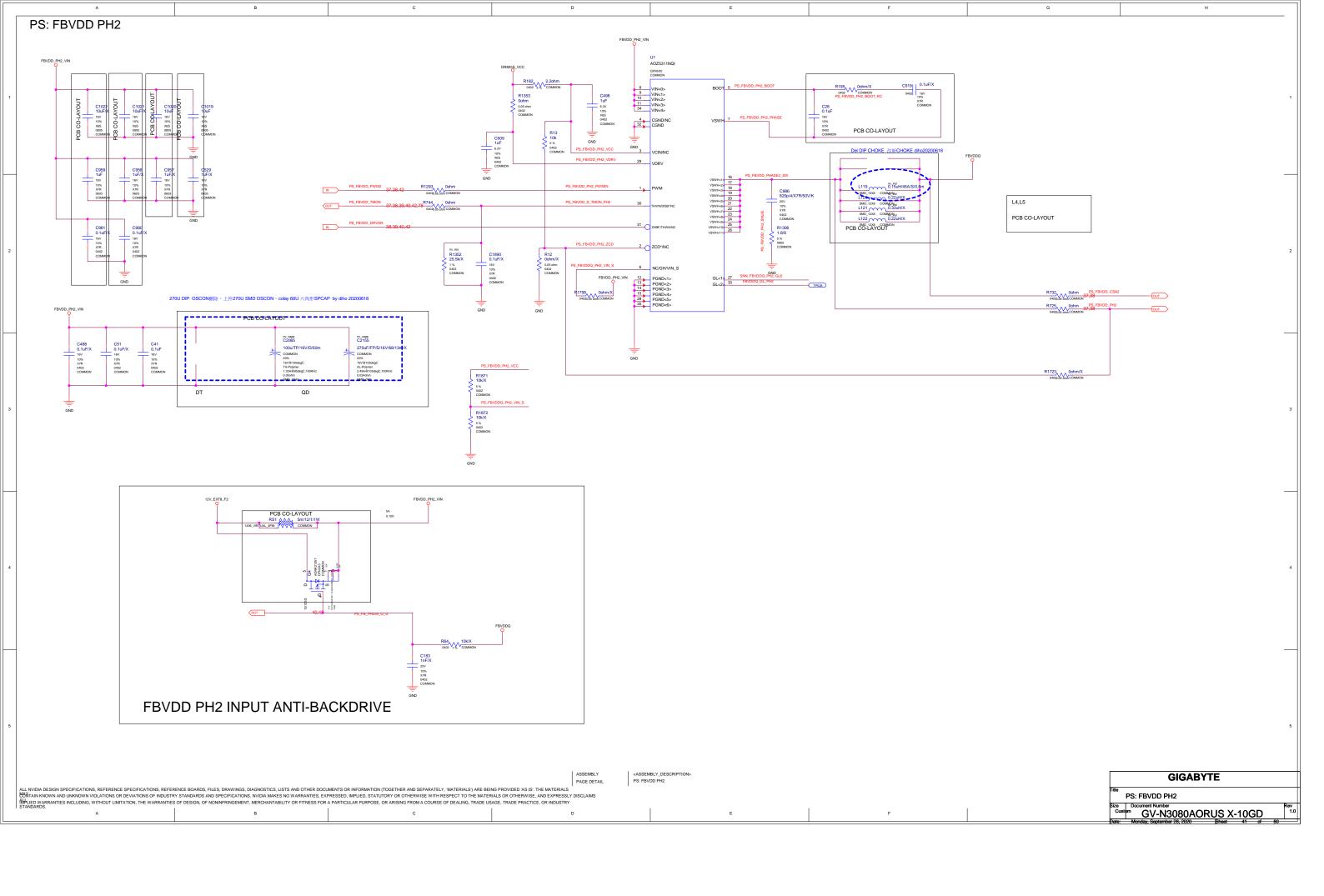


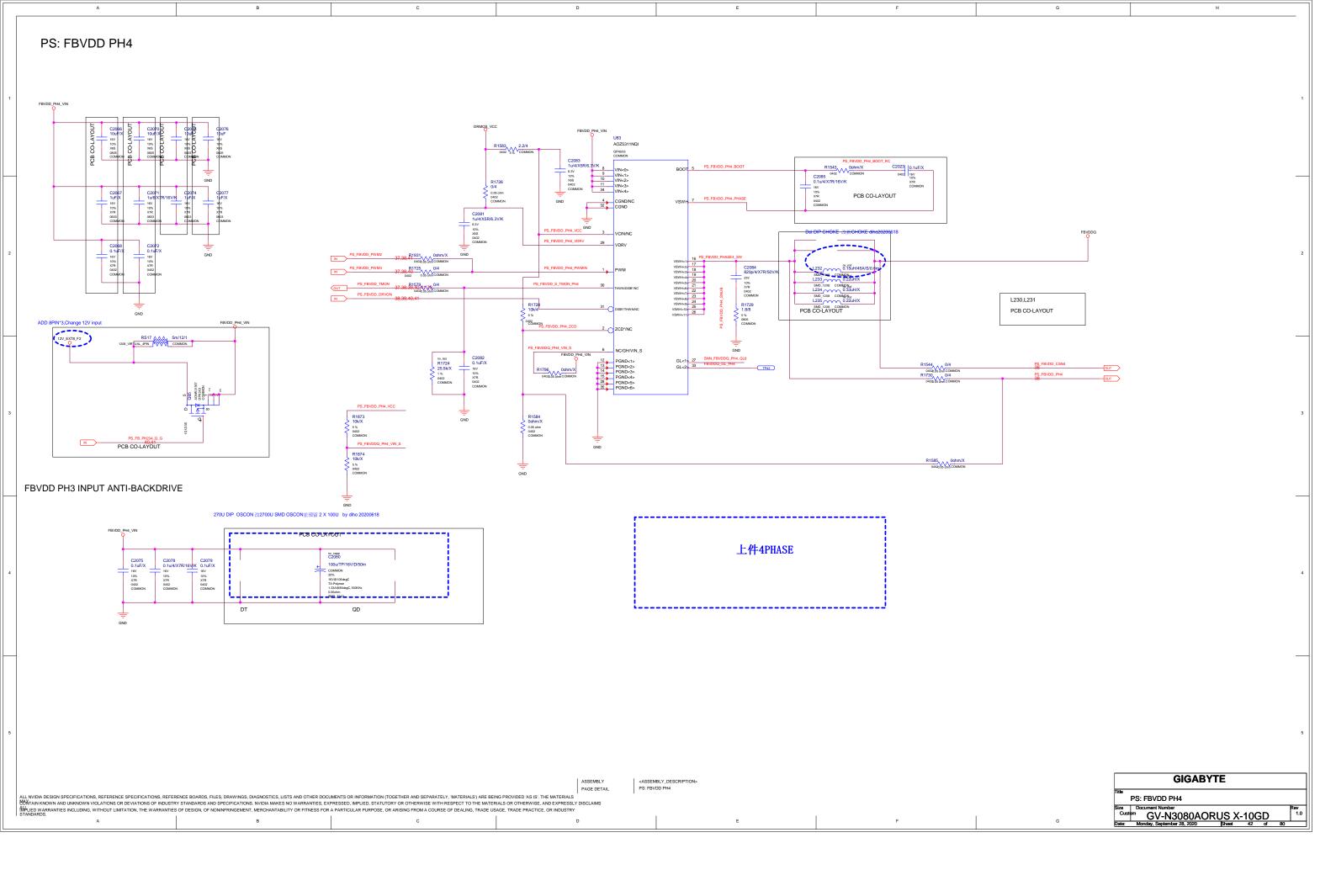


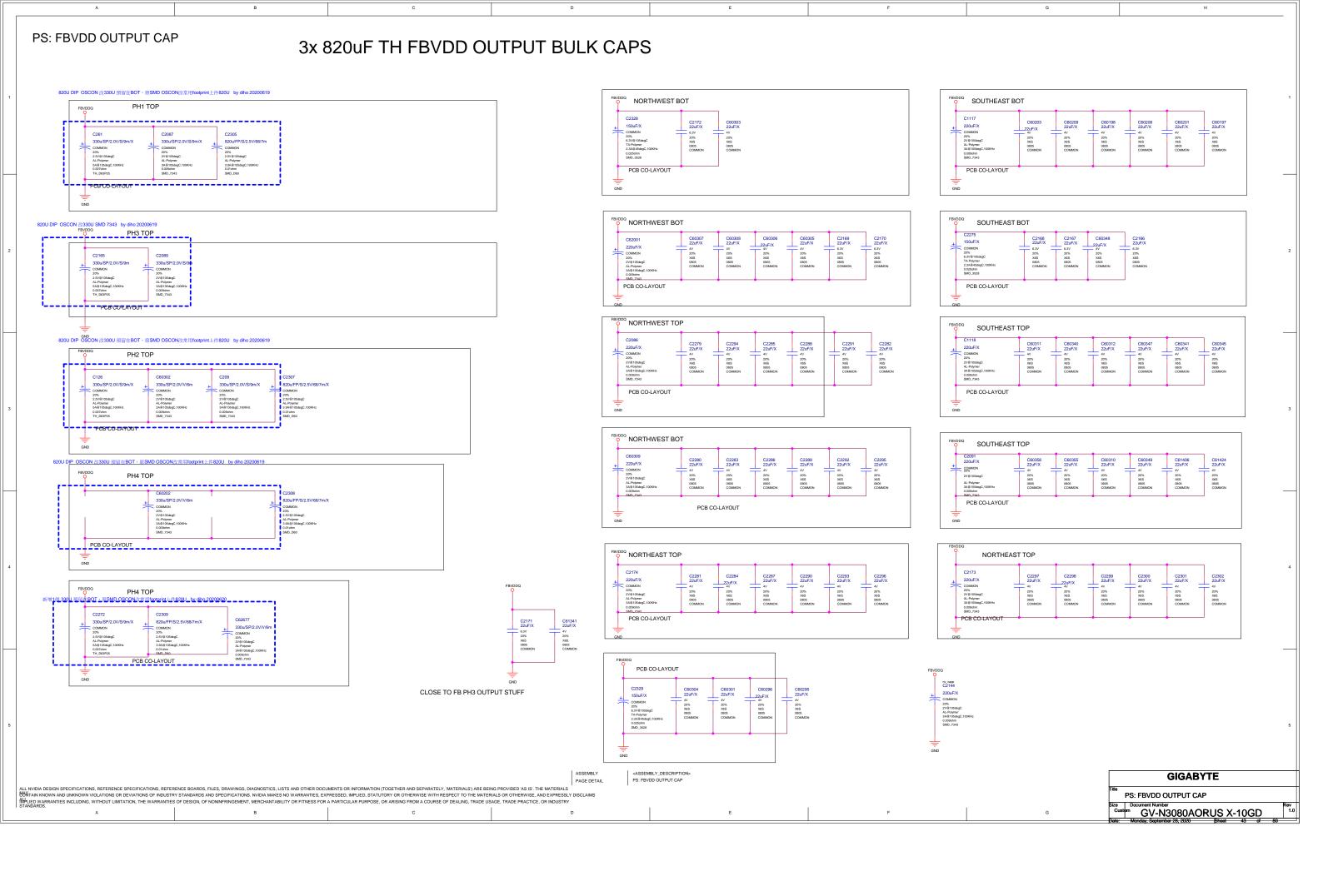


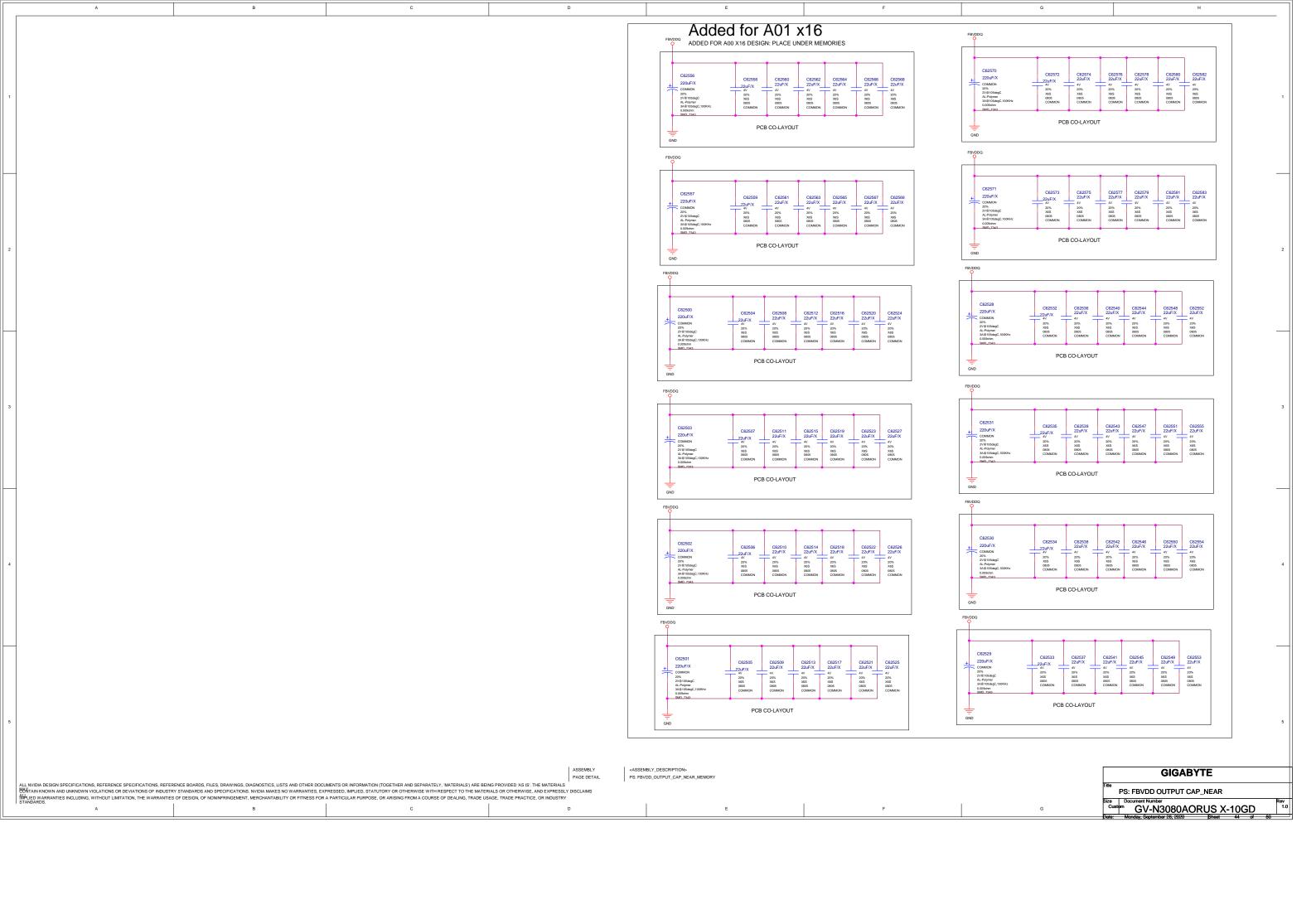


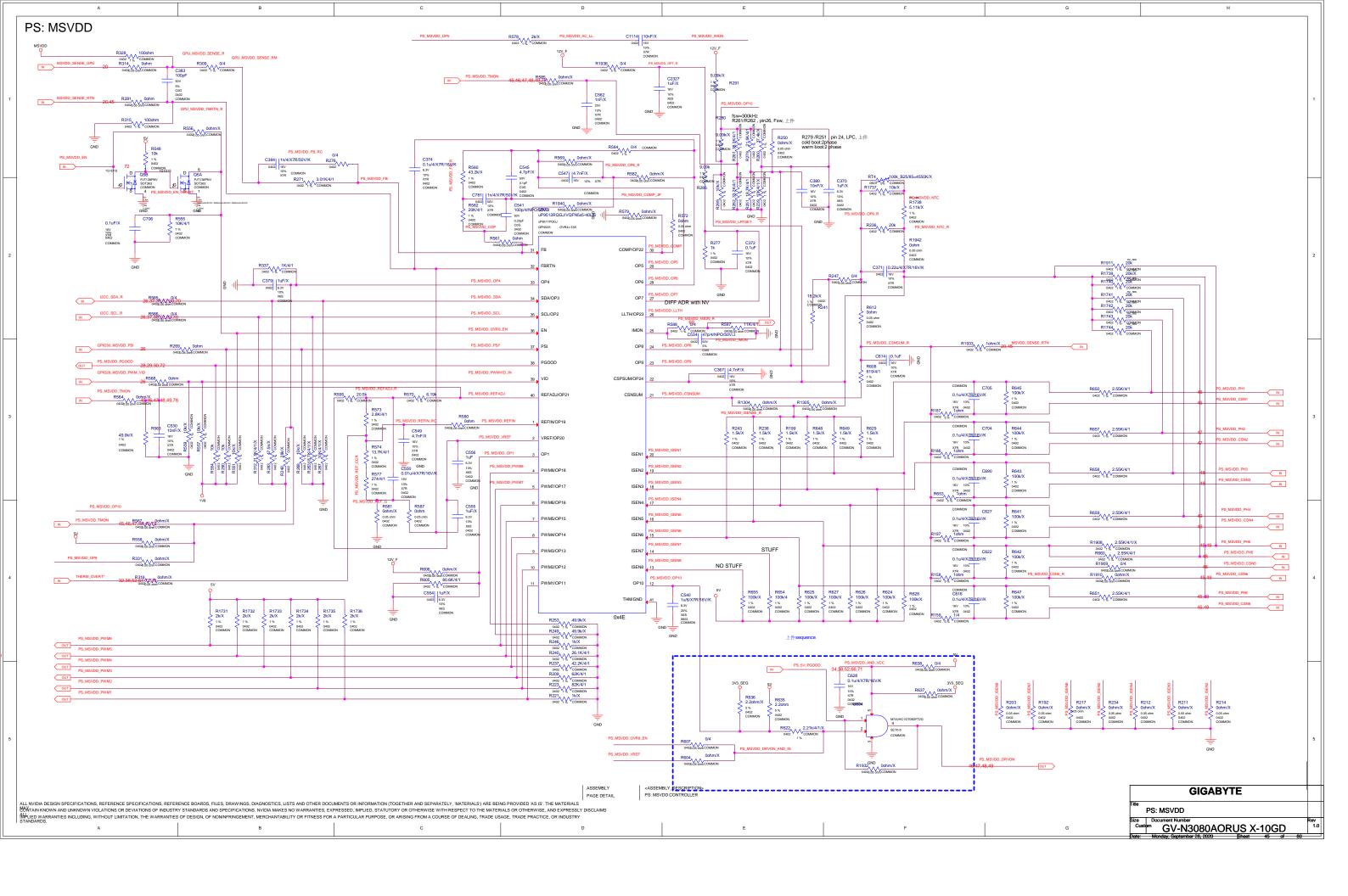


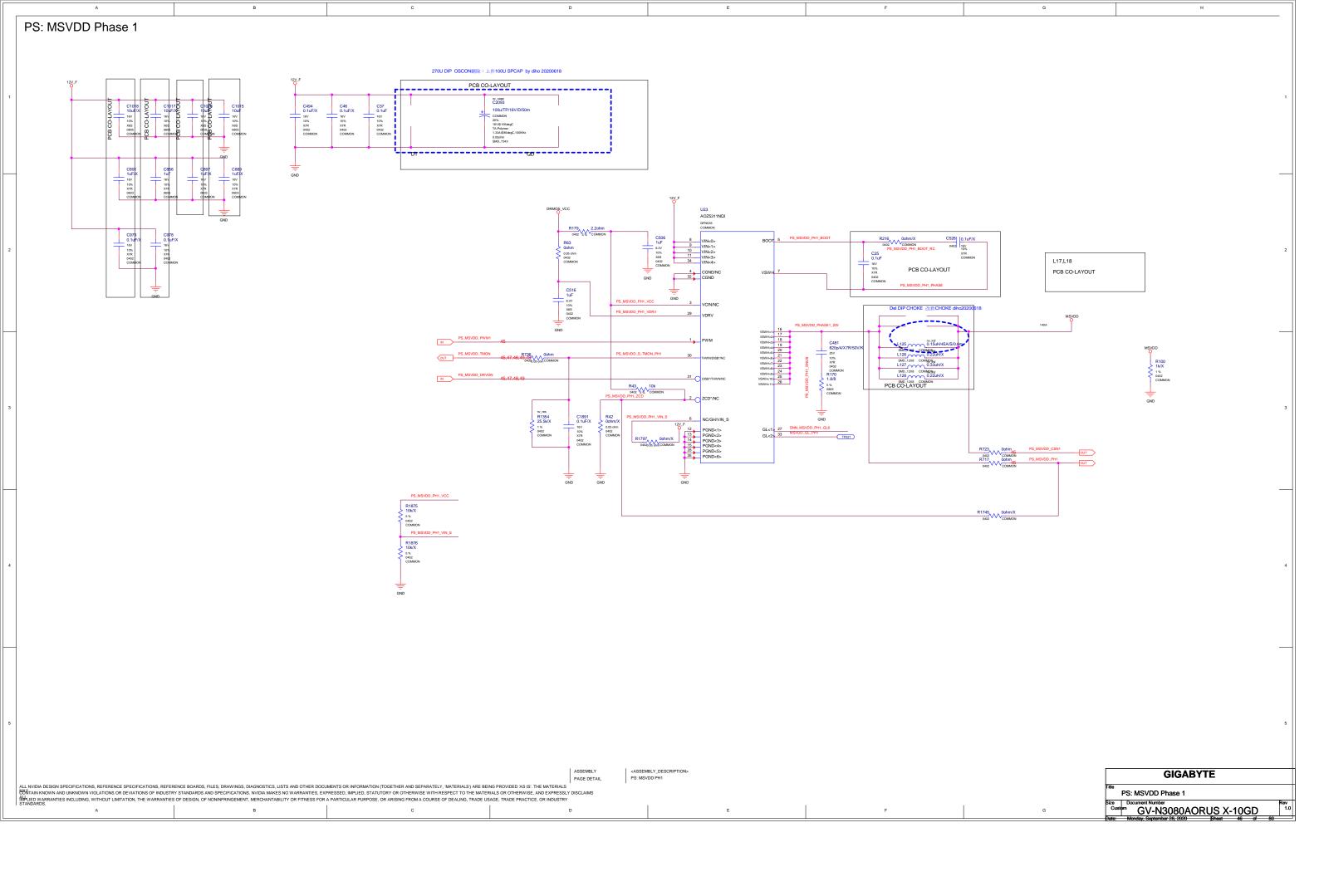


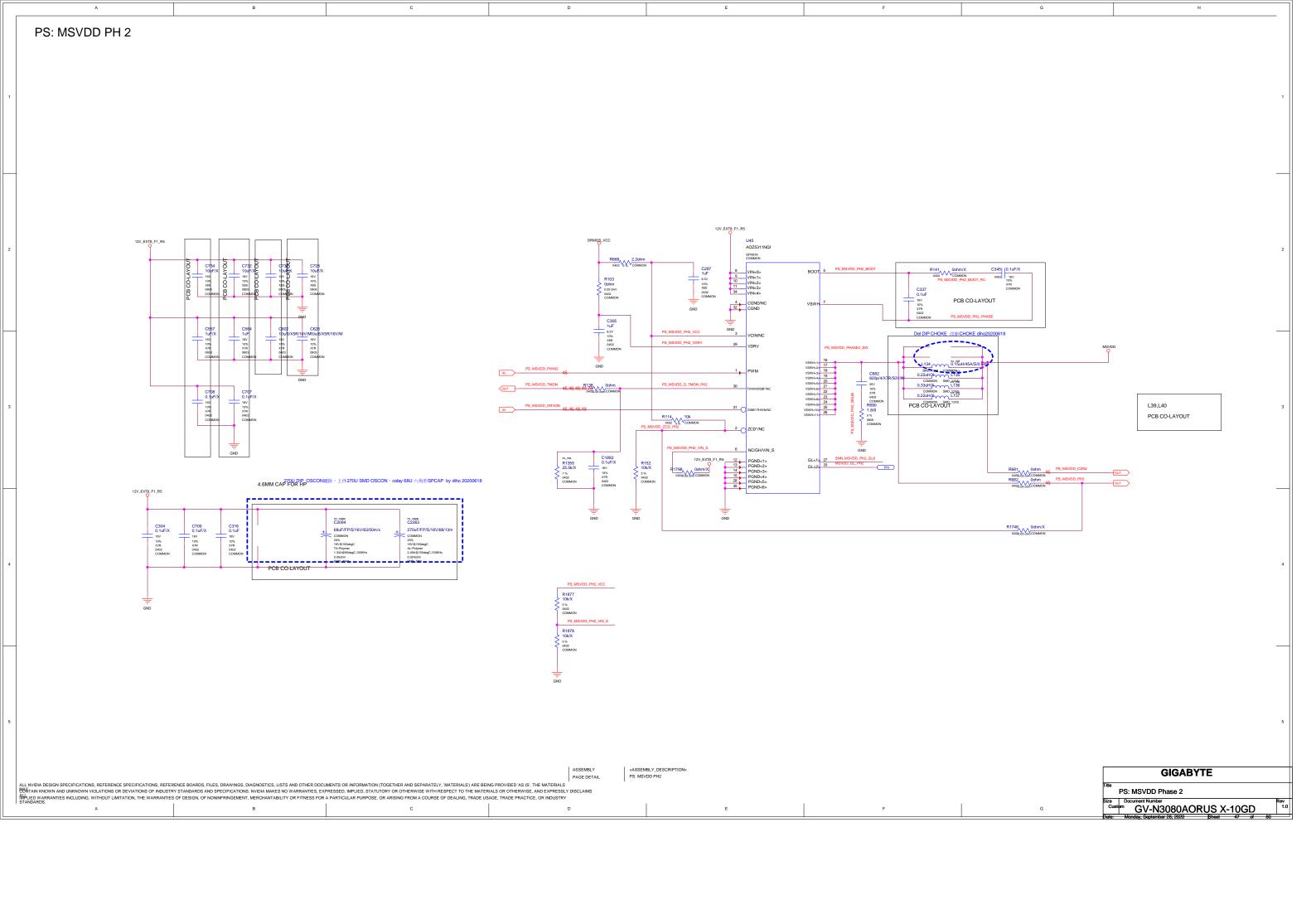


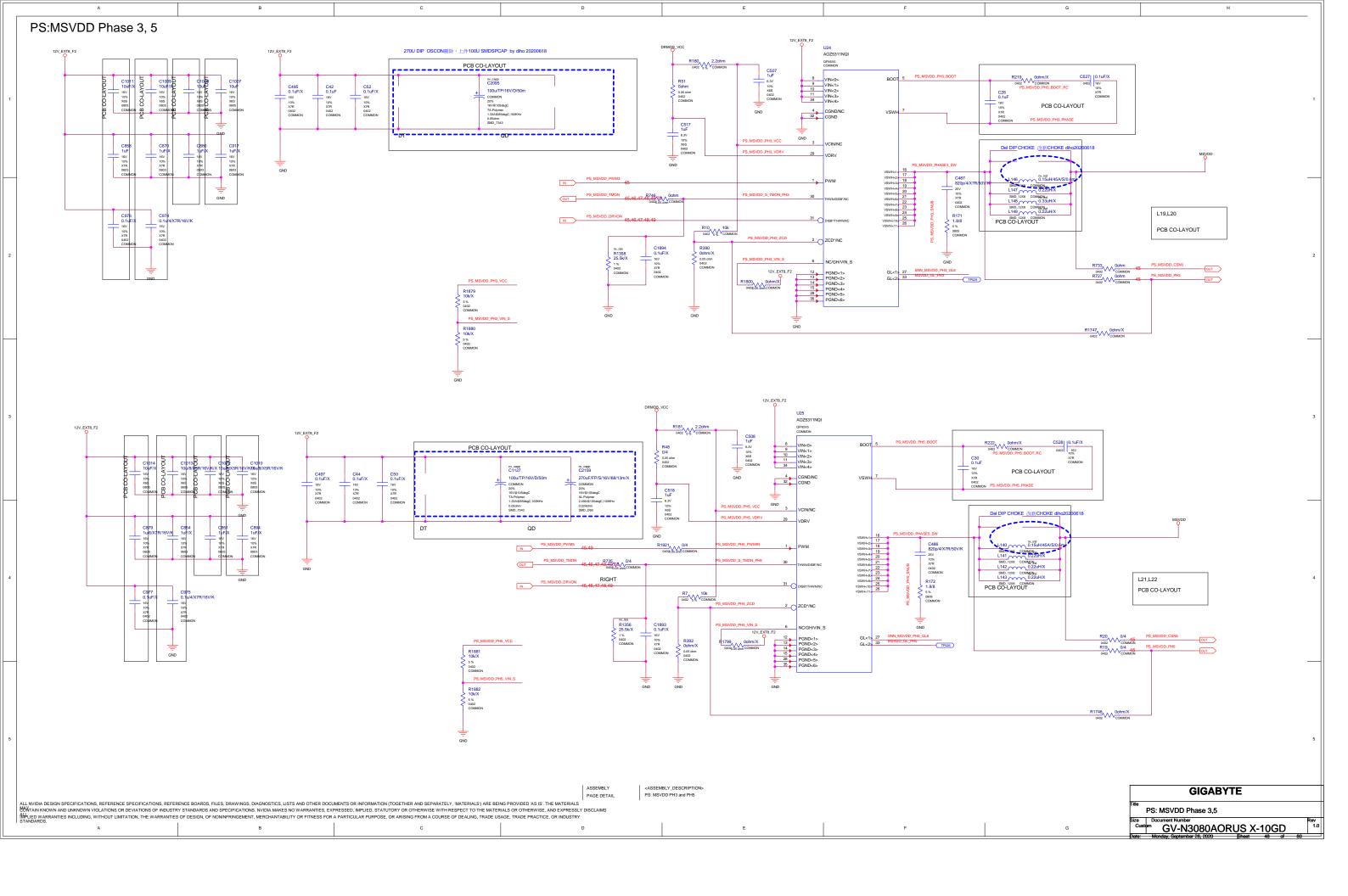


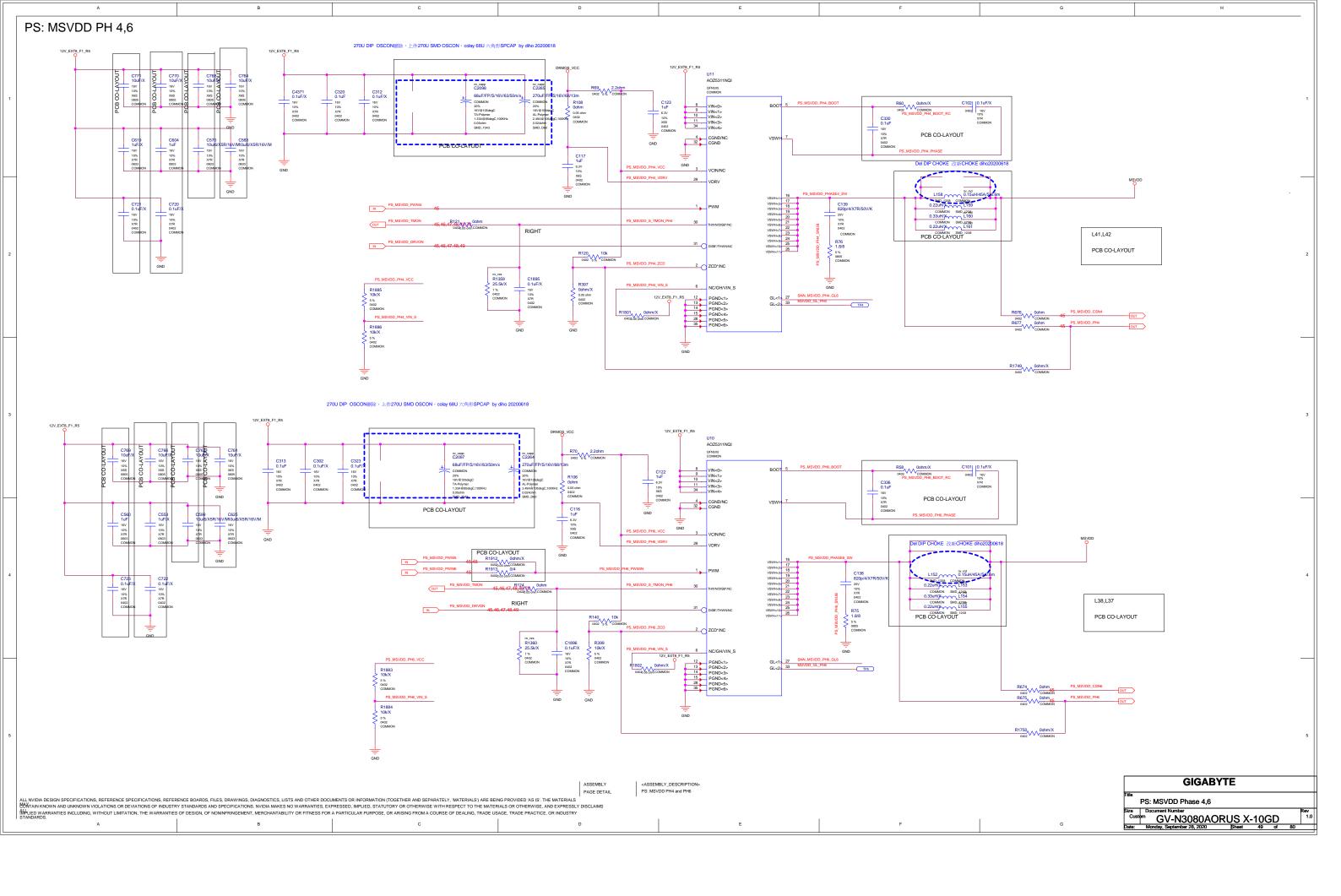


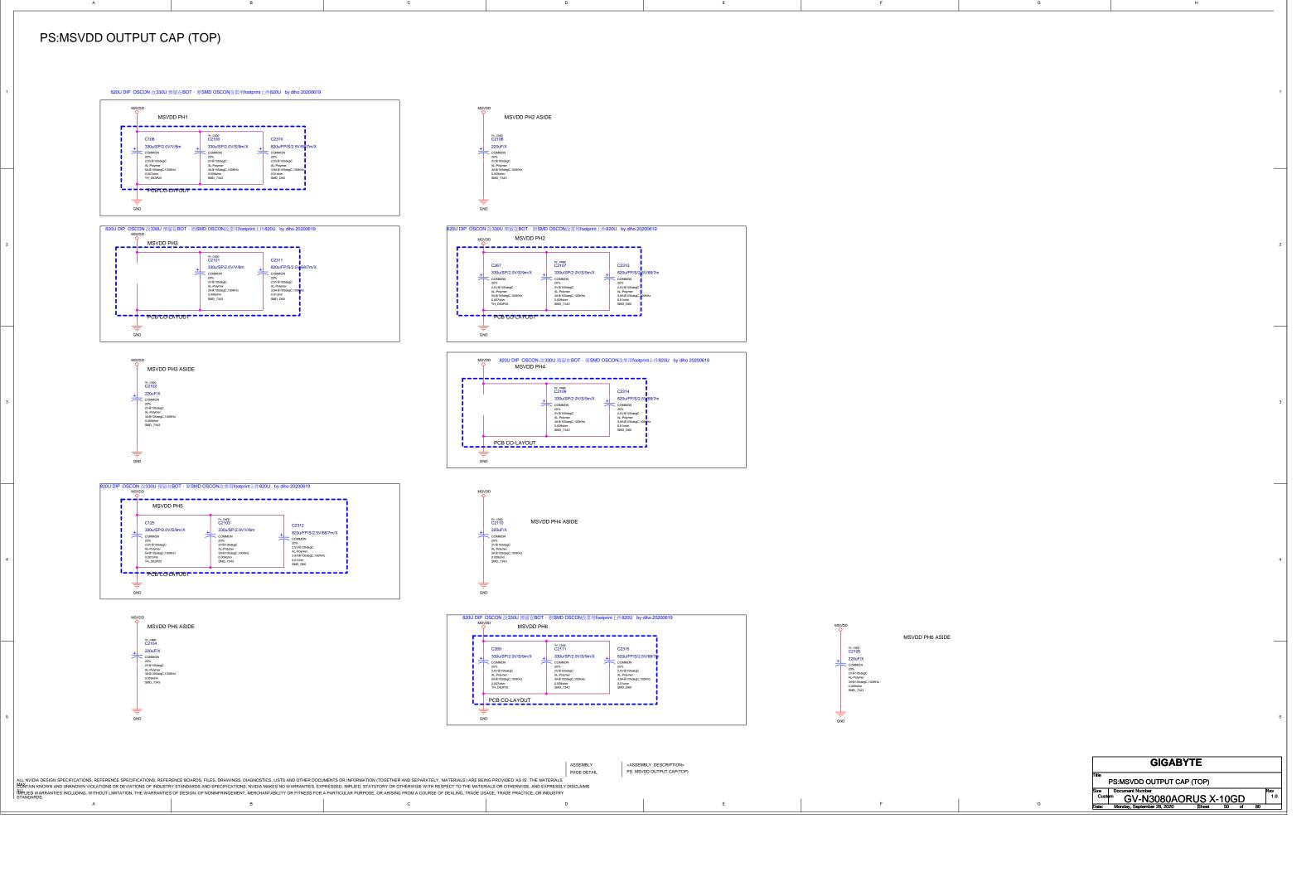












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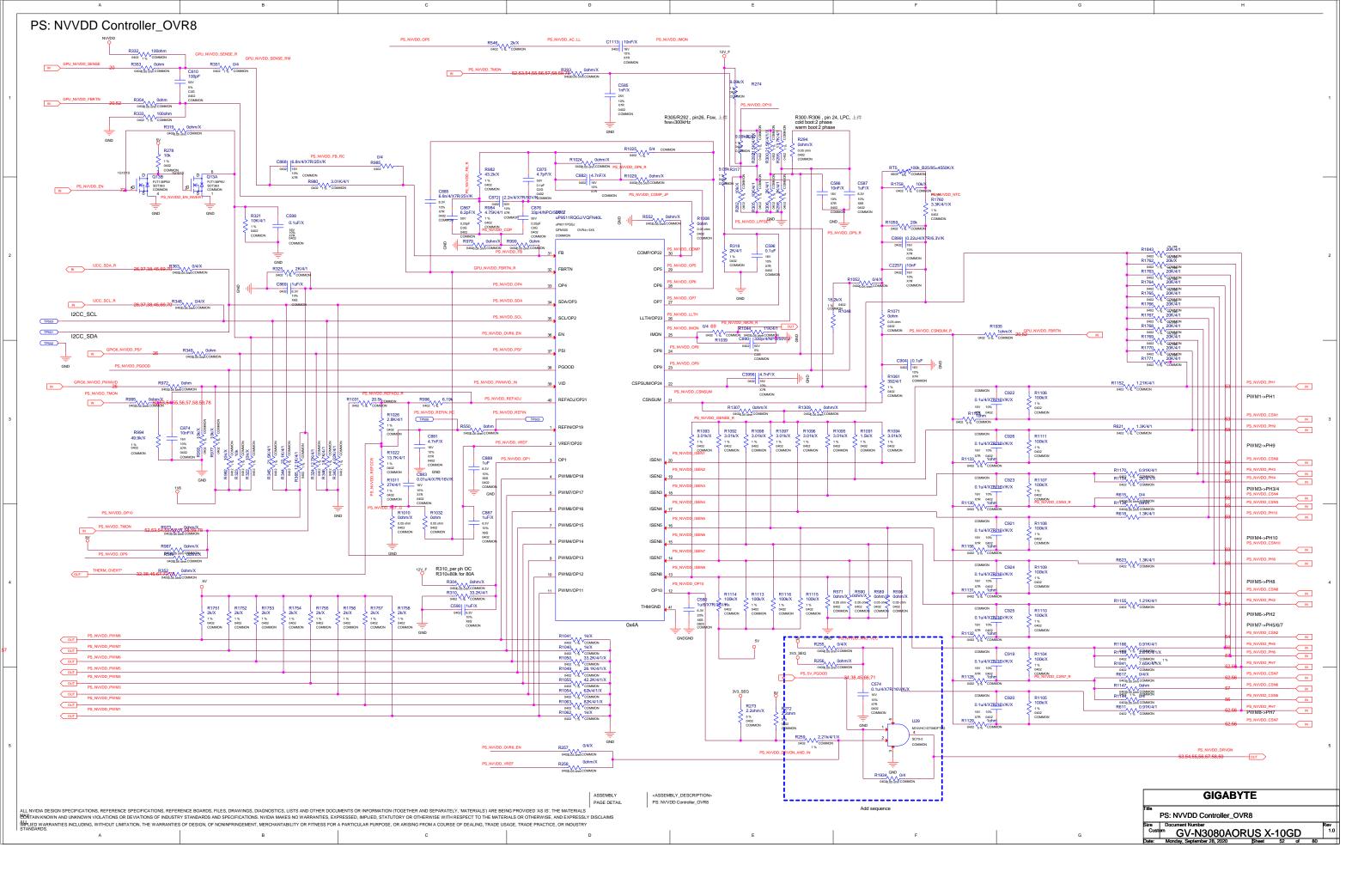
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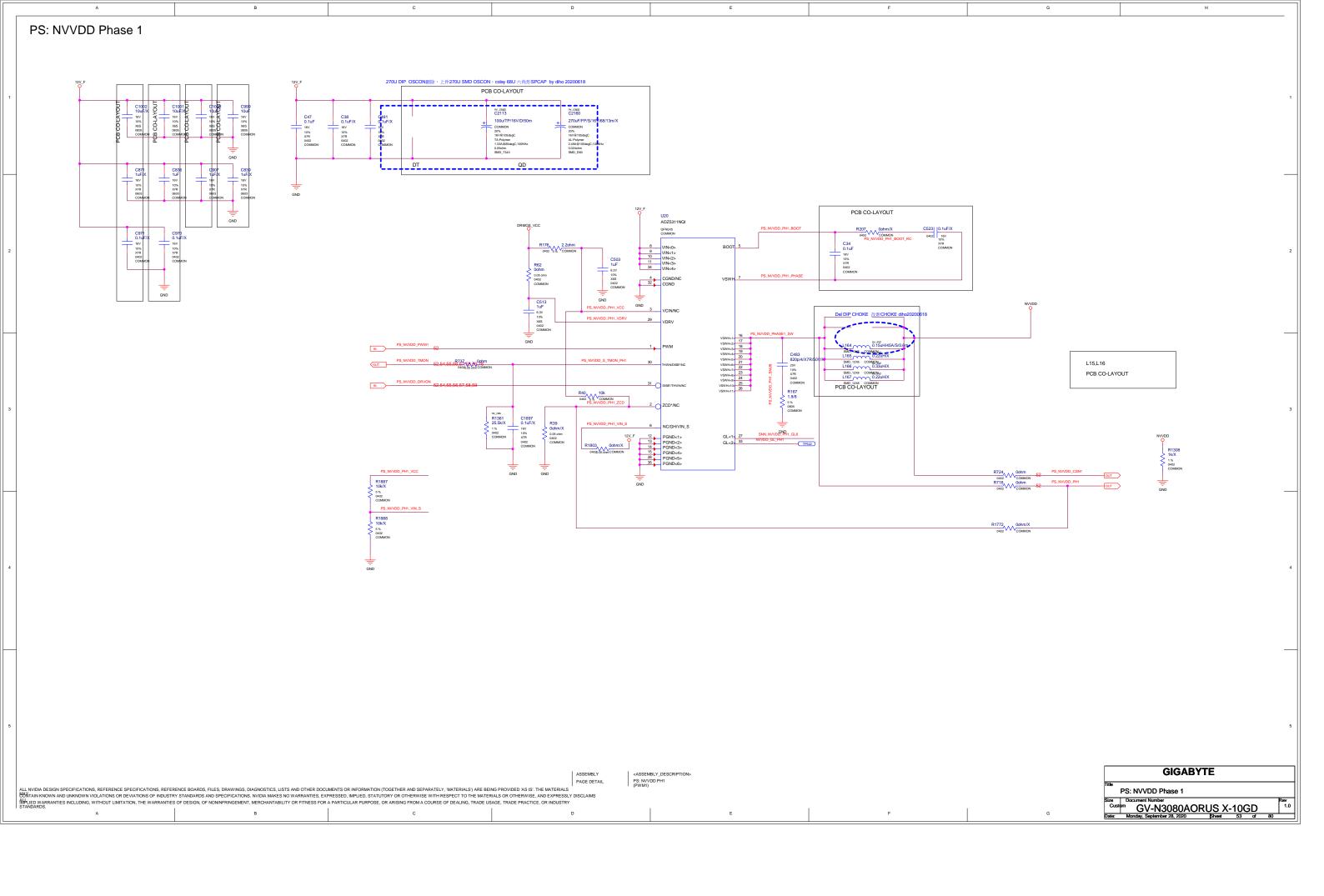
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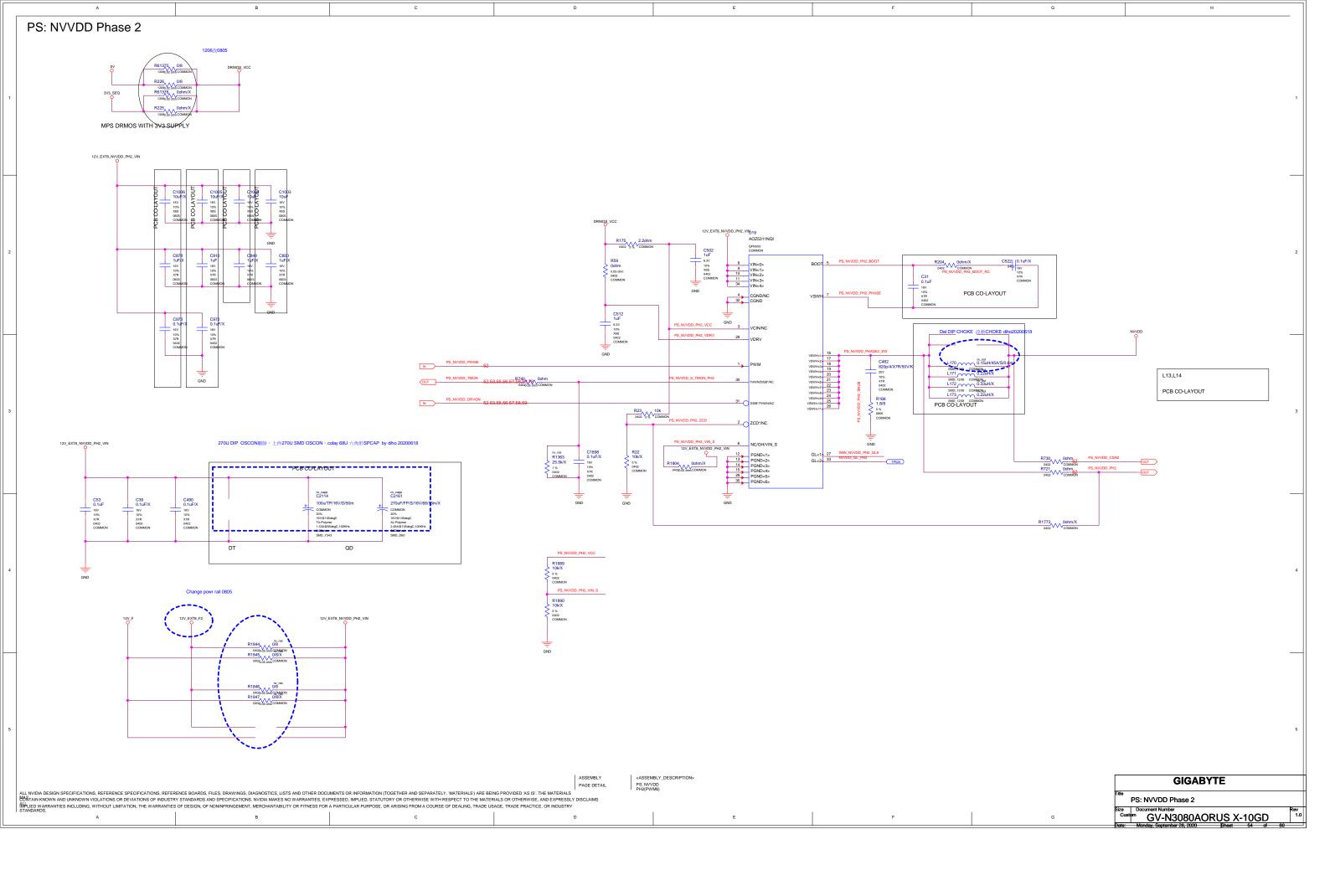
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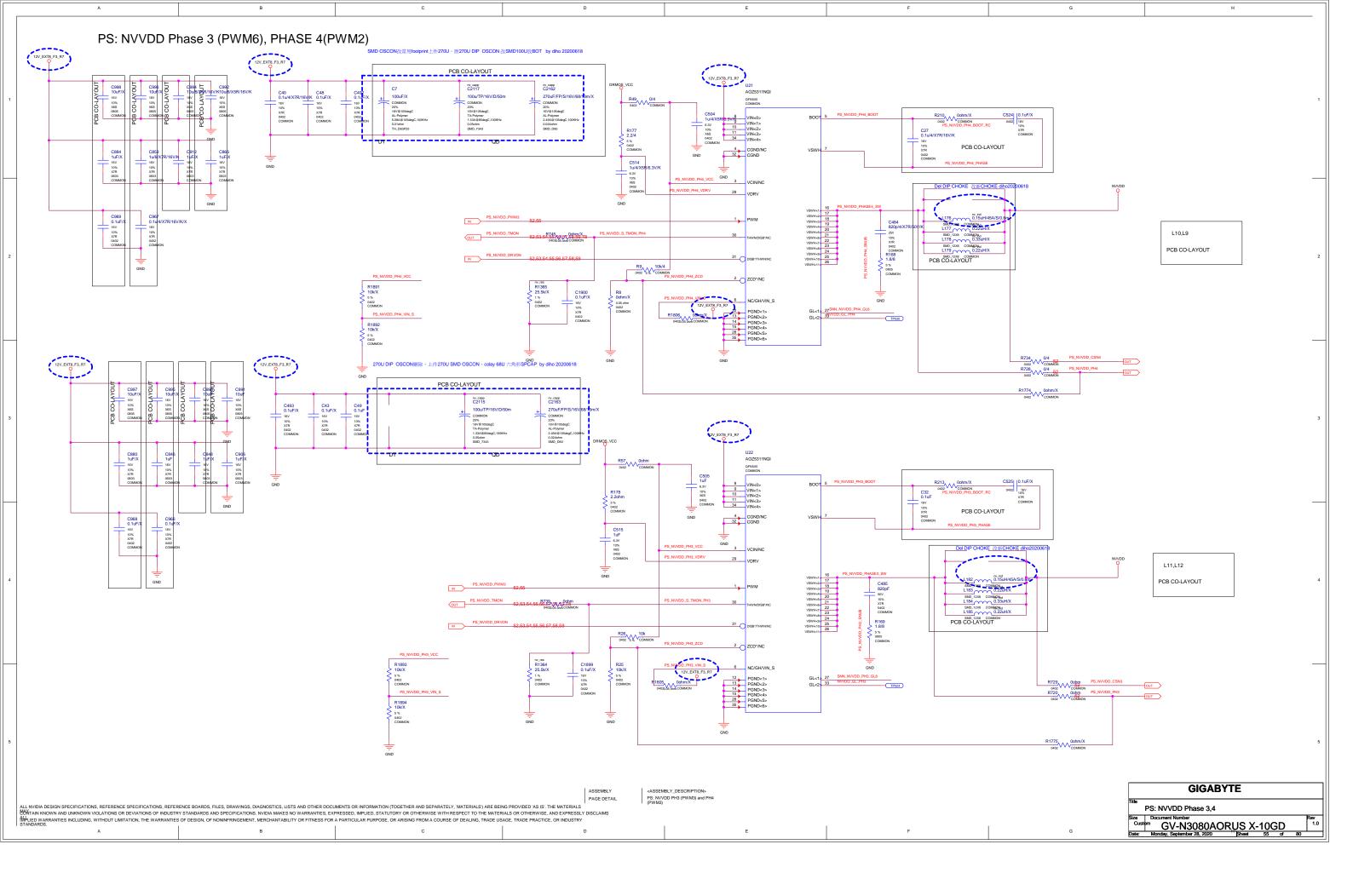
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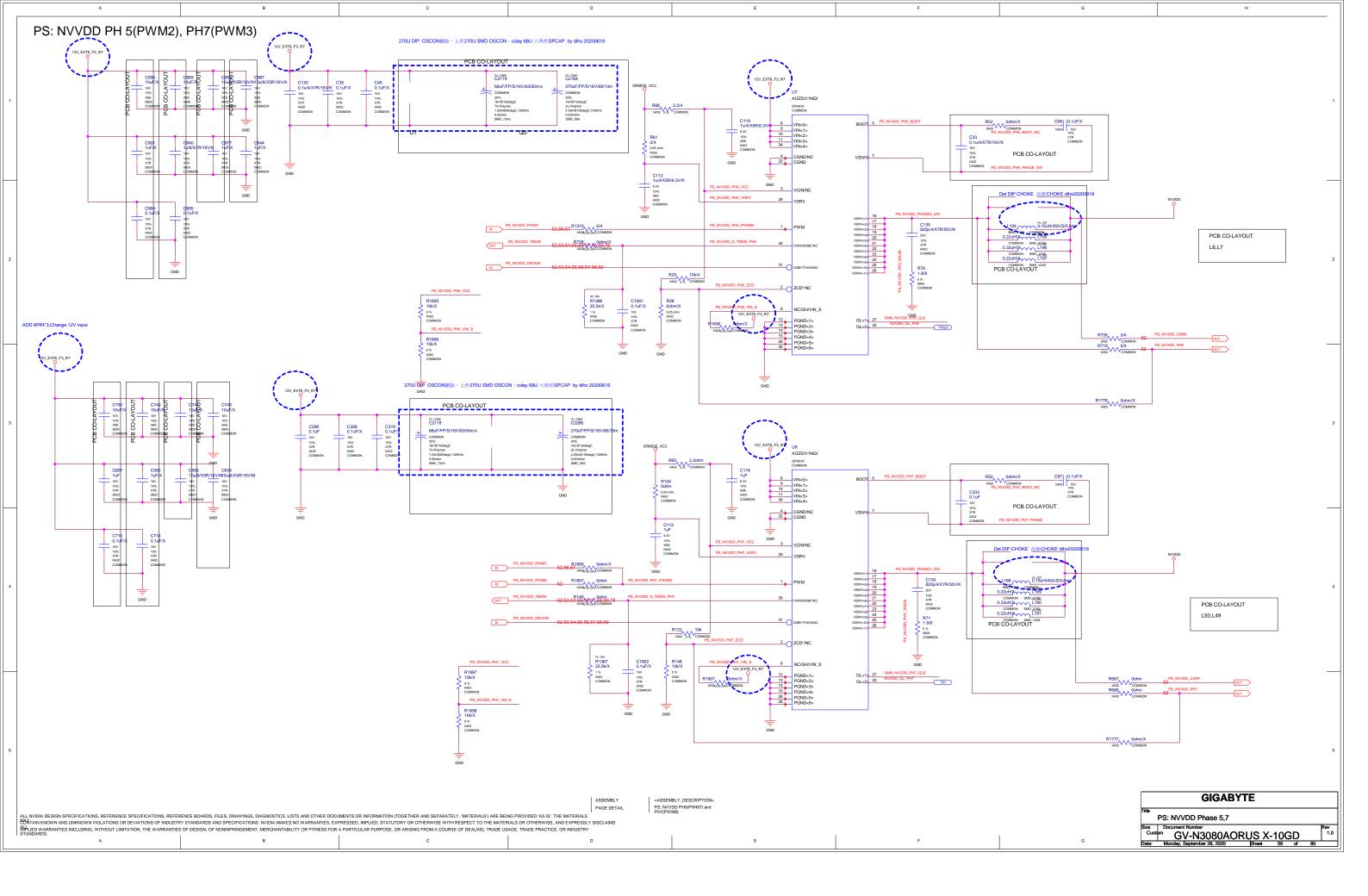
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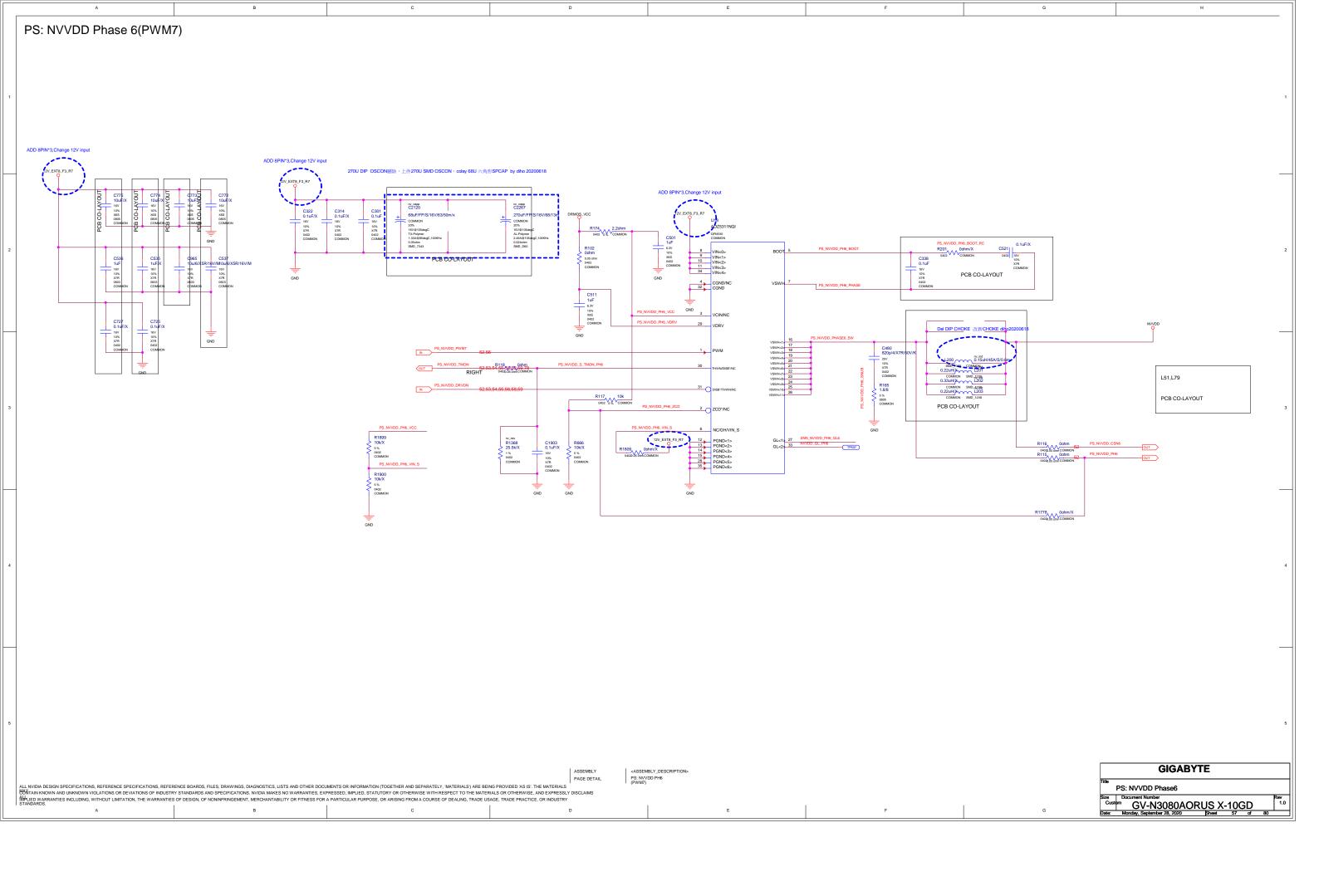


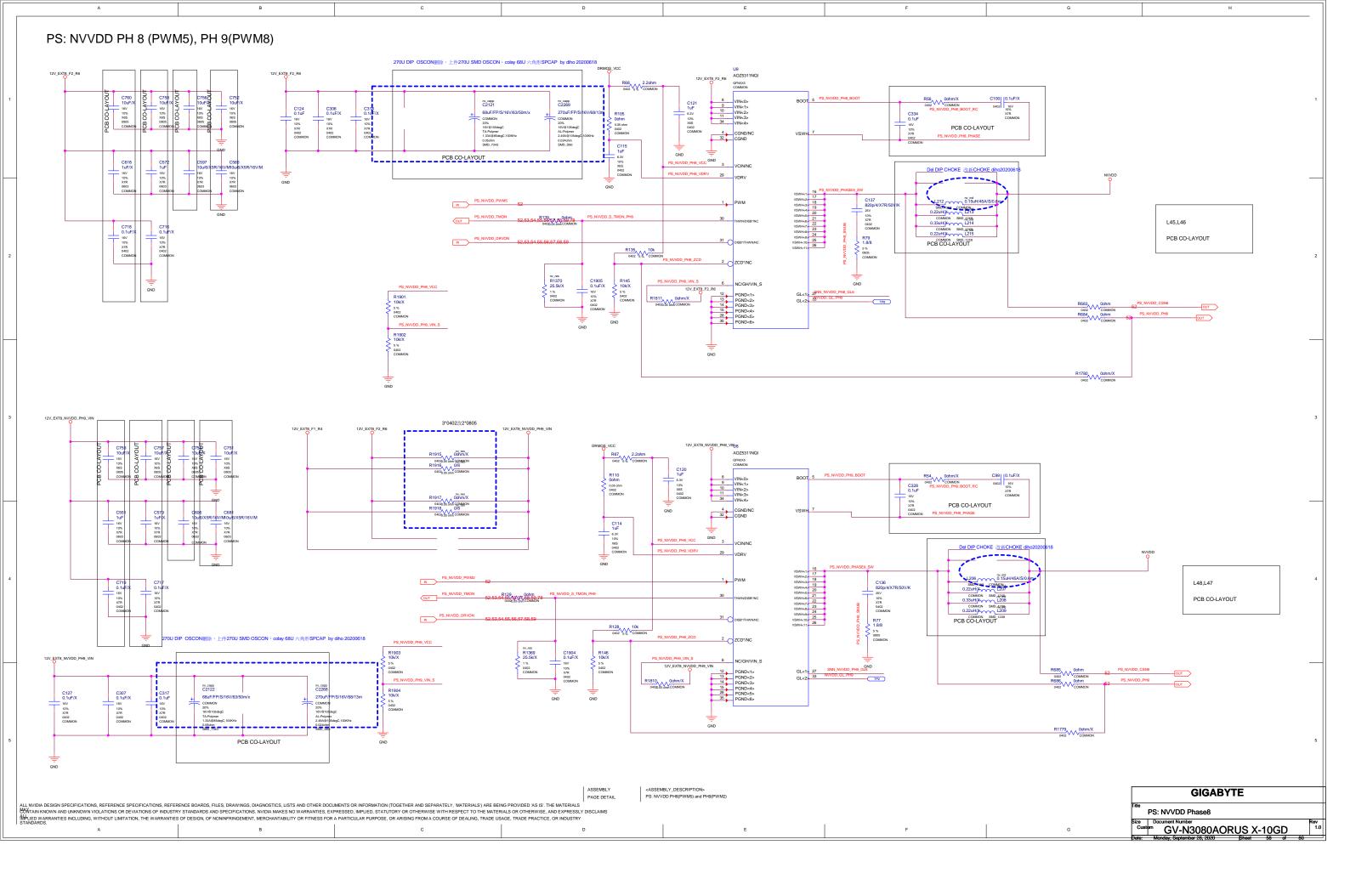


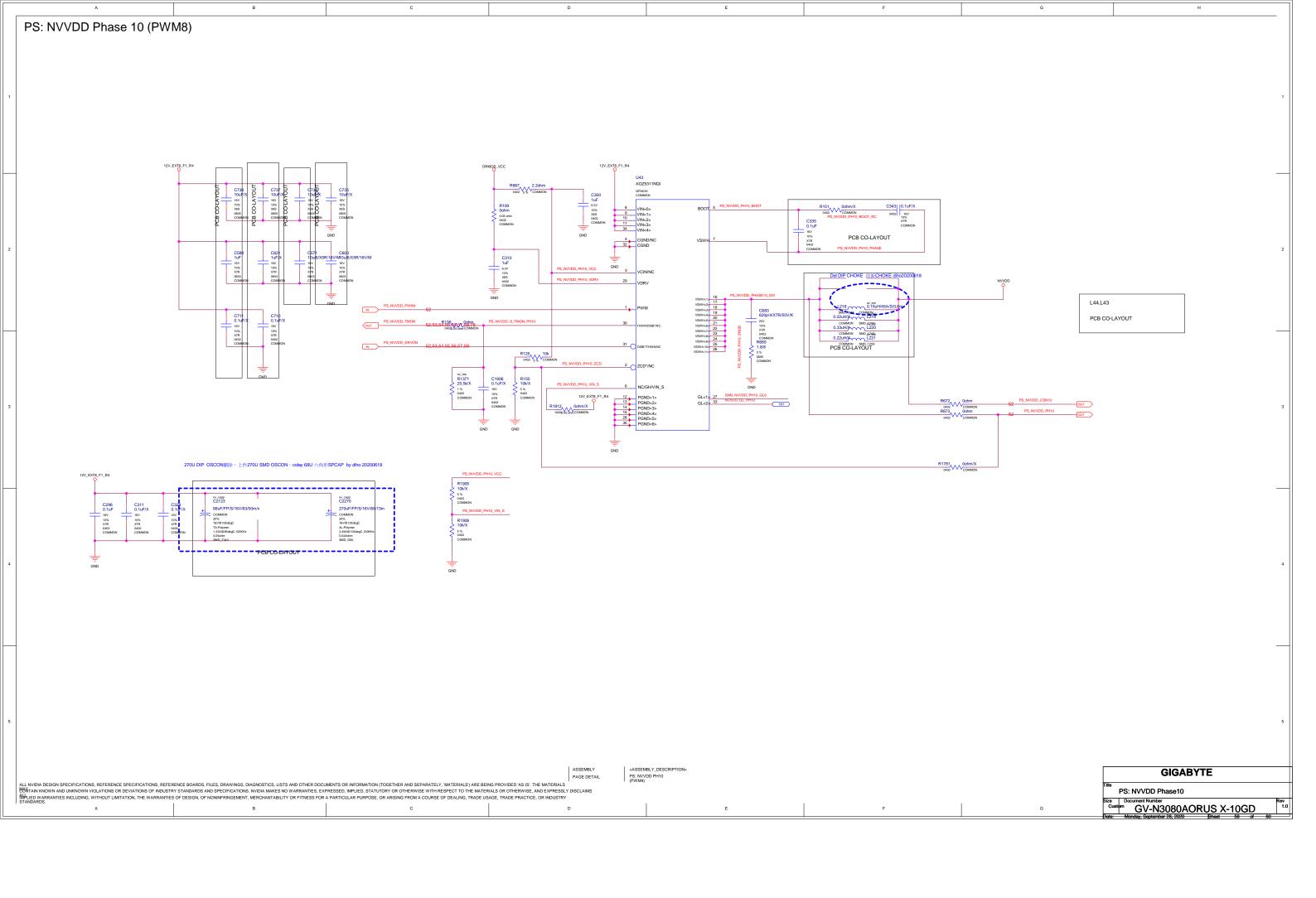












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