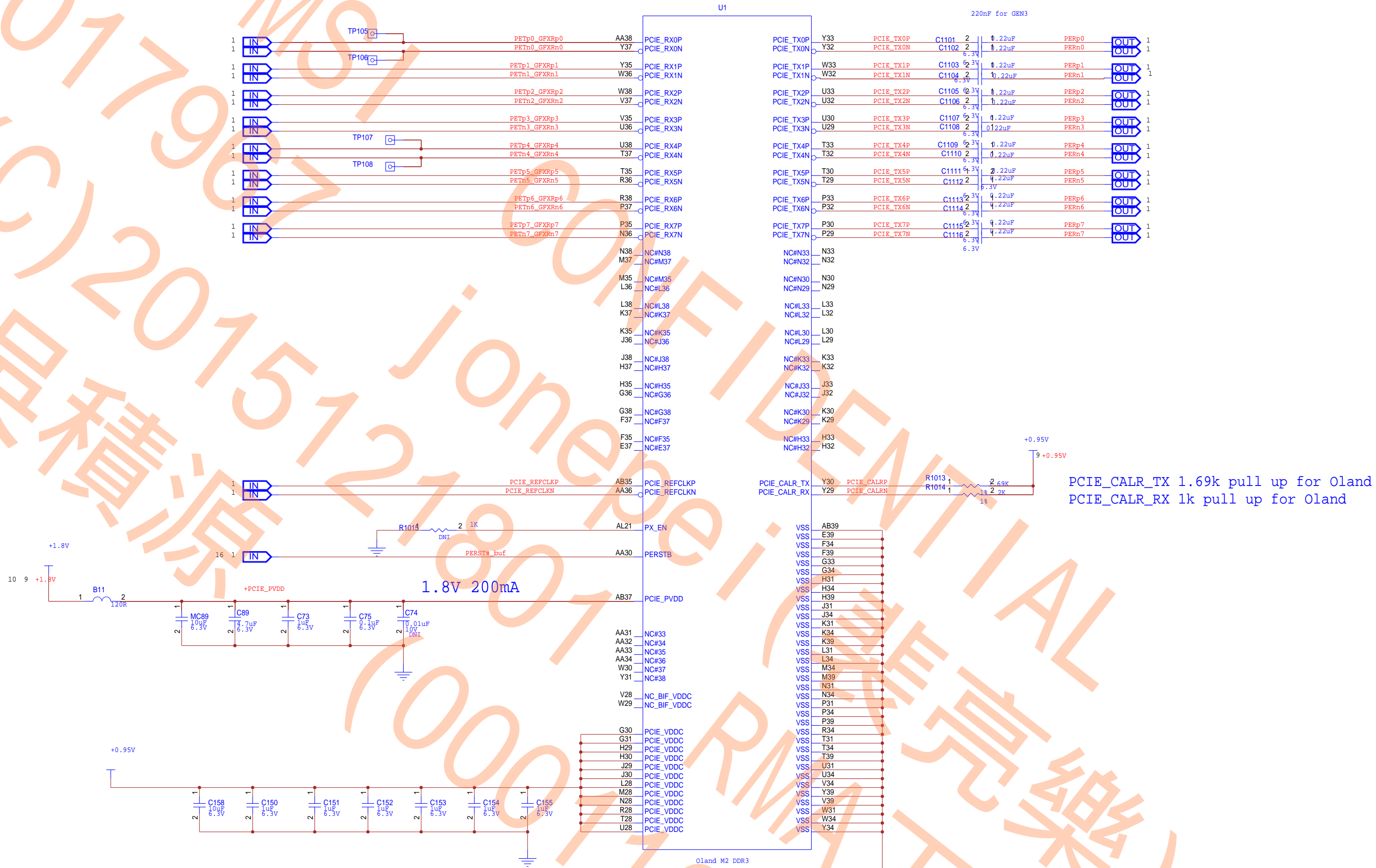
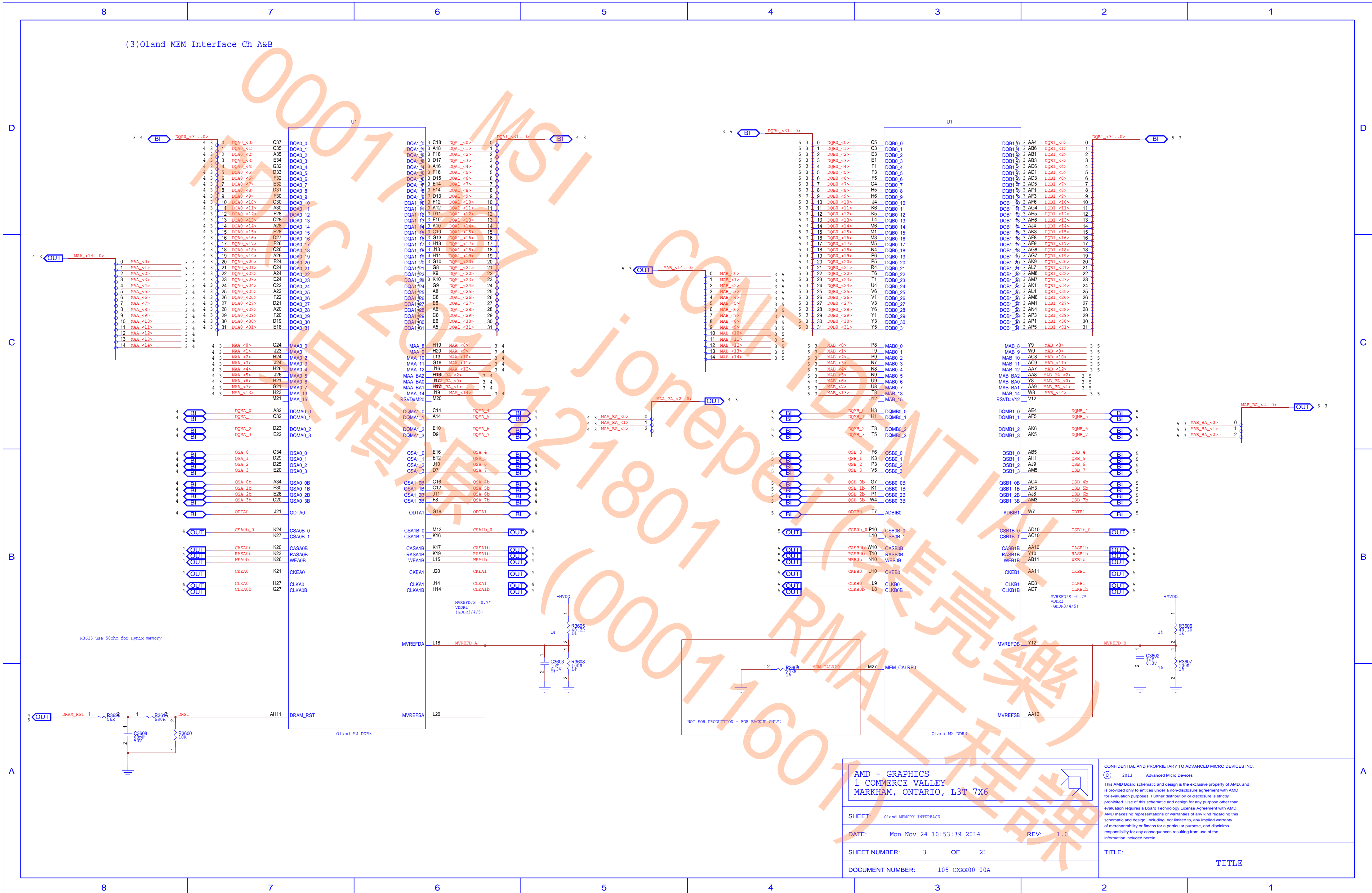


Oland M2 PCIe Interface

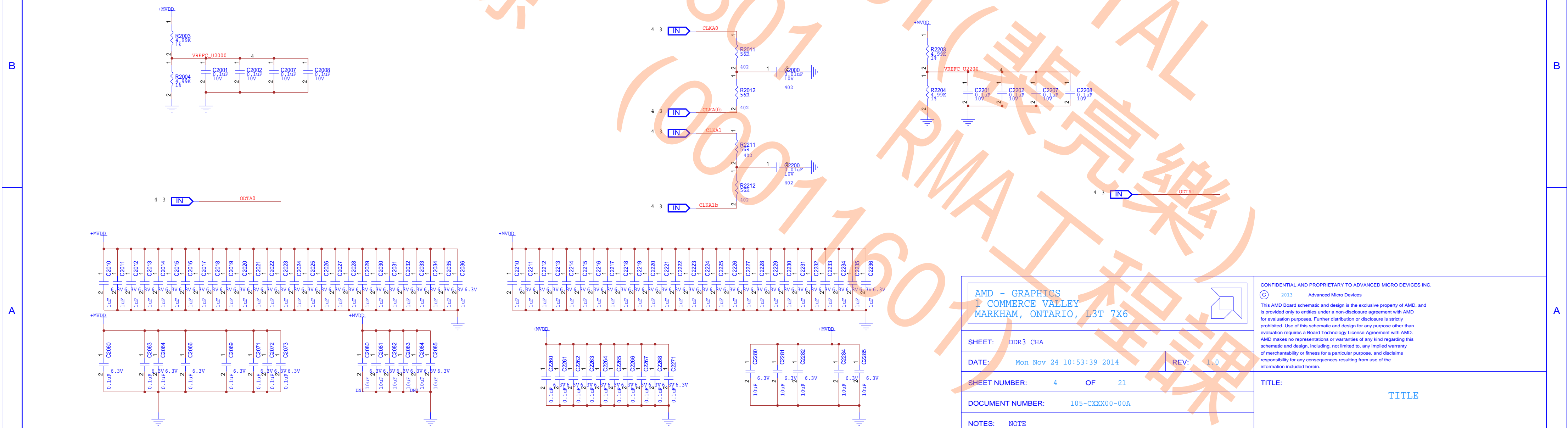
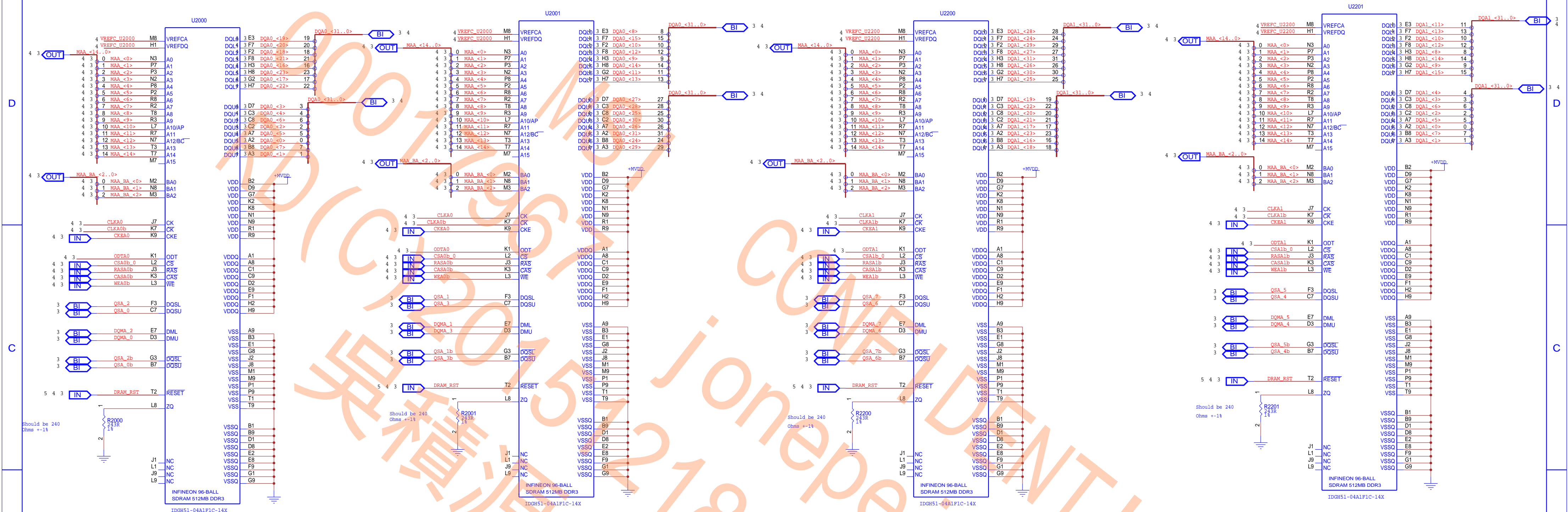
NOTE: Some of the PCIe testpoints will be available through vias on traces.



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SHEET: Oland PCIe Interface		TITLE:	
DATE: Mon Nov 24 10:53:38 2014		REV: 1.0	
SHEET NUMBER: 2 OF 21		DOCUMENT NUMBER: 105-CXXX00-00A	



(4) DDR3 Memory Channel A



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SHEET: DDR3 CHA	
DATE: Mon Nov 24 10:53:39 2014	REV: 1.0
SHEET NUMBER: 4 OF 21	
DOCUMENT NUMBER: 105-CXXX00-00A	
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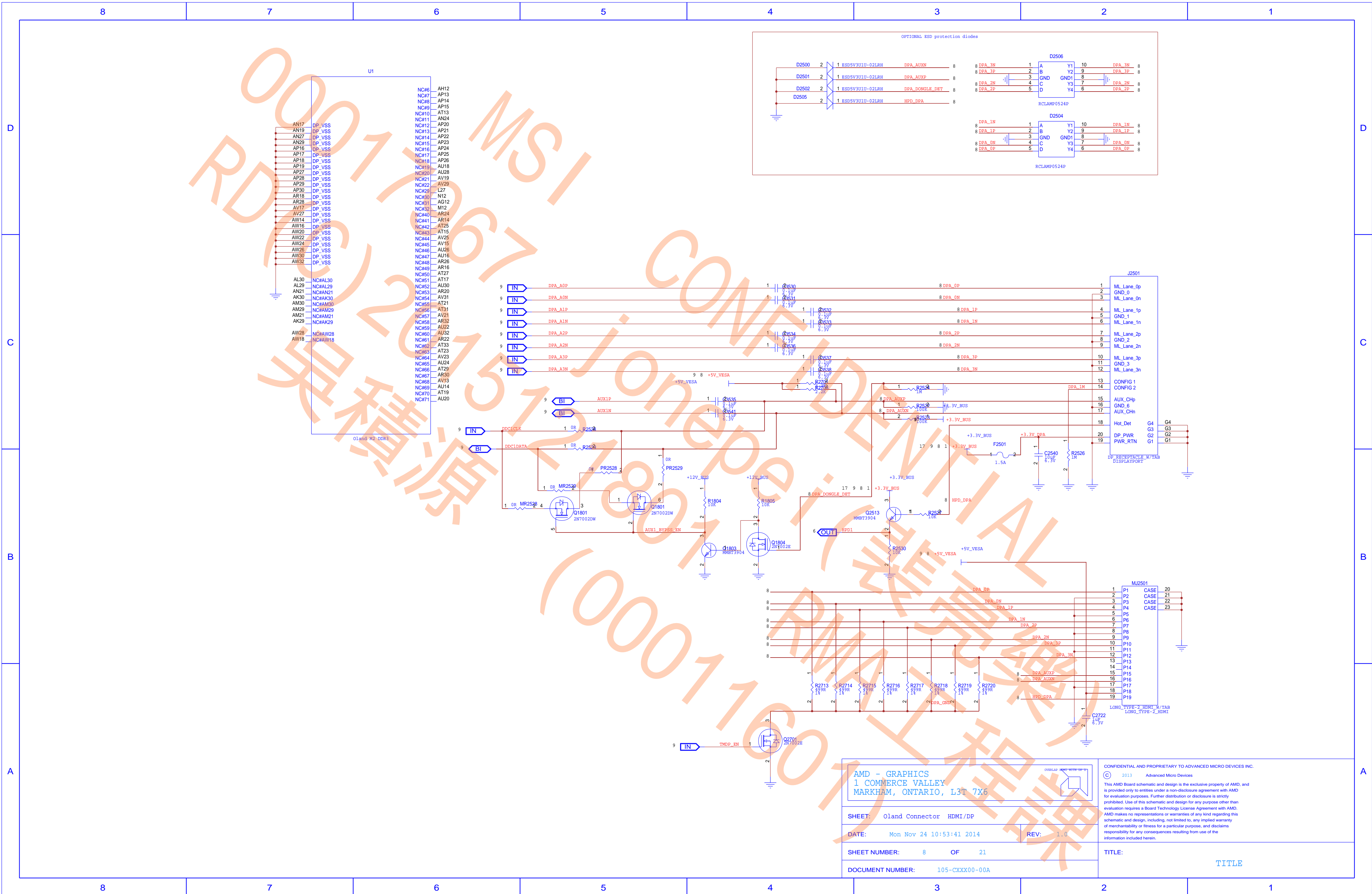
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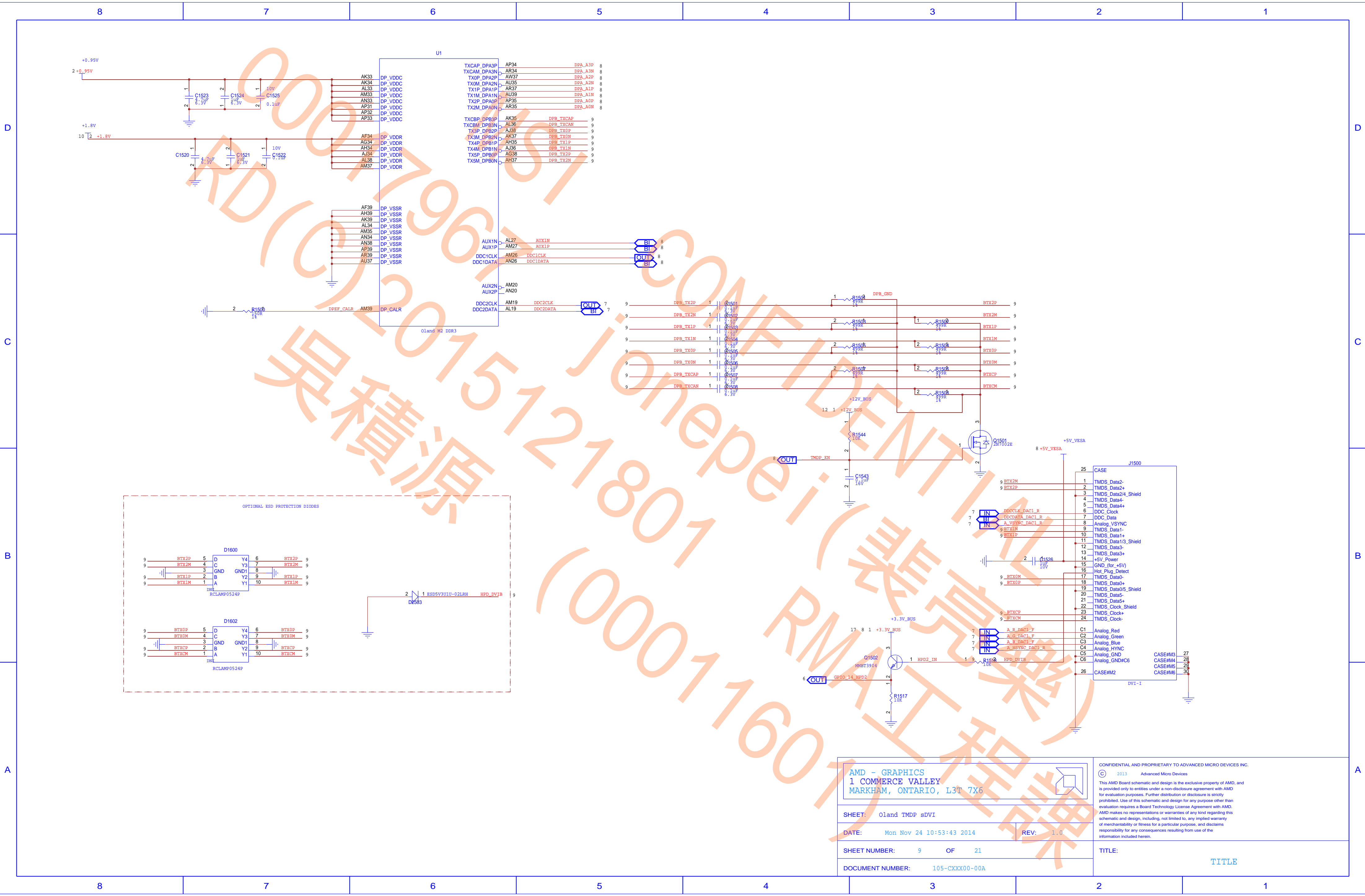


TITLE

DOCUMENT NUMBER:

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SHEET: Oland TMDP sDVI

DATE: Mon Nov 24 10:53:43 2014

SHEET NUMBER: 9 OF 21

DOCUMENT NUMBER: 105-CXXX00-00A

REV: 1.0

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REV: 1.0

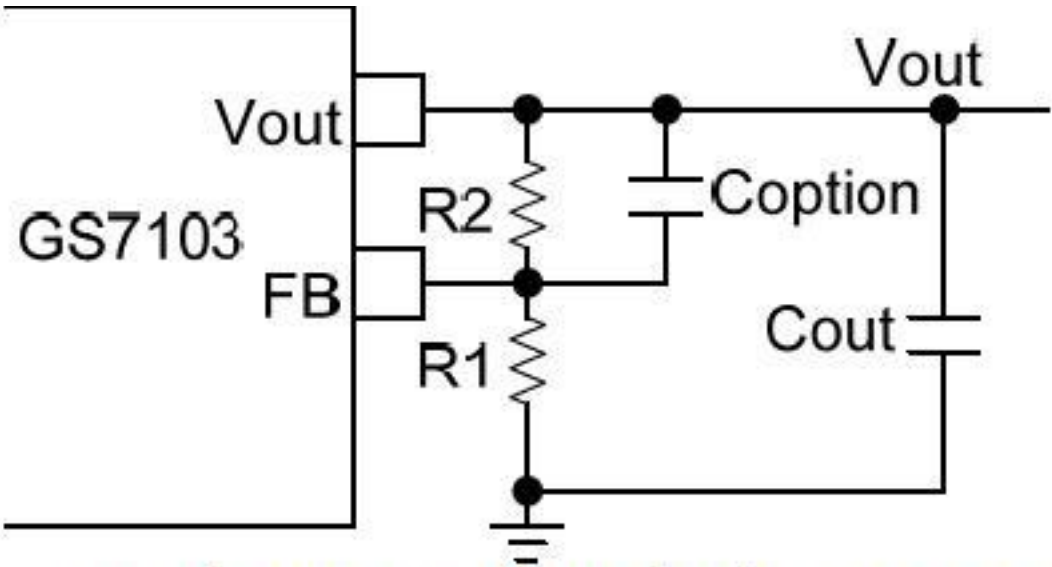
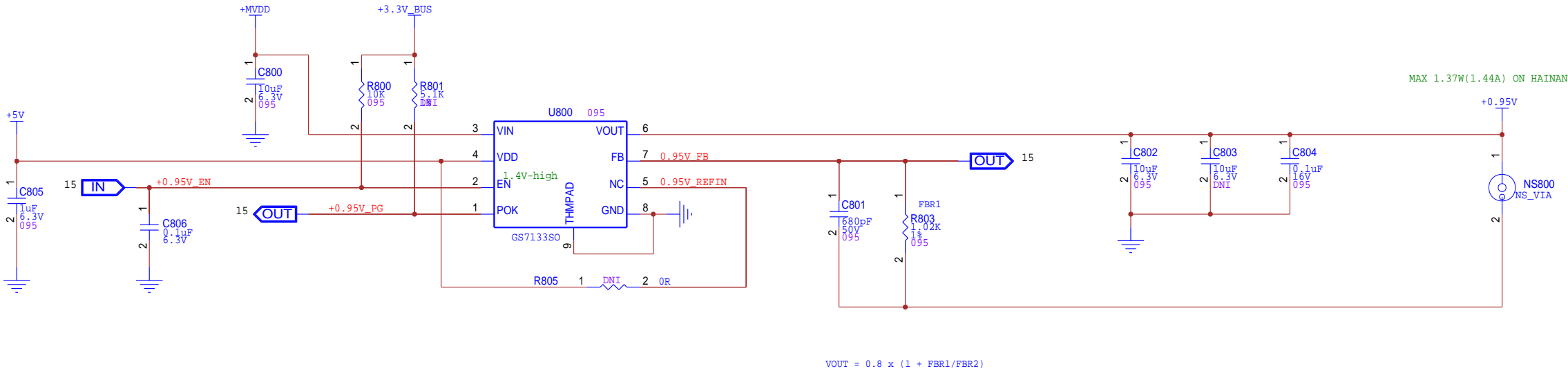
TITLE:	
	TITLE

TITLE

Linear Regulators

LDO #1: Vin = +1.5V +/-2% Vout = +0.95V +/- 2% Iout = 1.44A (TBV) RMS MAX

PCB: 50 to 70mm sq. copper area for cooling



C_{OPTION} can improve transient response, and recommend value as follow:

V _{OUT}	R2	C _{OPTION}
0.8V ~ 1.6V	0 ~ 10 KΩ	470pF~1nF
1.6V ~ 2.4V	10 KΩ ~ 20 KΩ	100pF~500pF
2.4V ~ 3.6V	20 KΩ ~ 30 KΩ	20pF~300pF

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SHEET: 0.95V

DATE: Mon Nov 24 10:53:41 2014 REV: 1.0

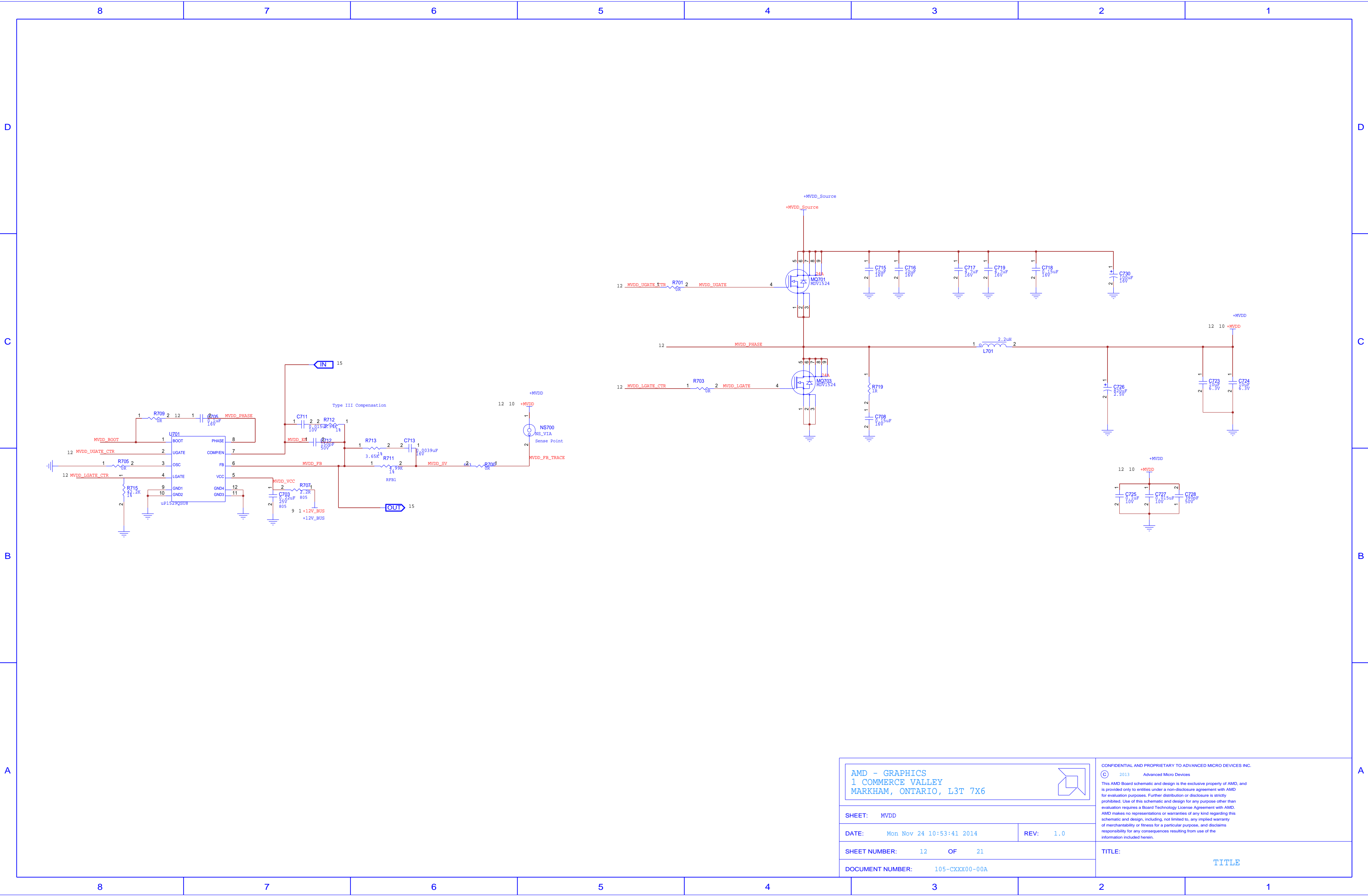
SHEET NUMBER: 11 OF 21

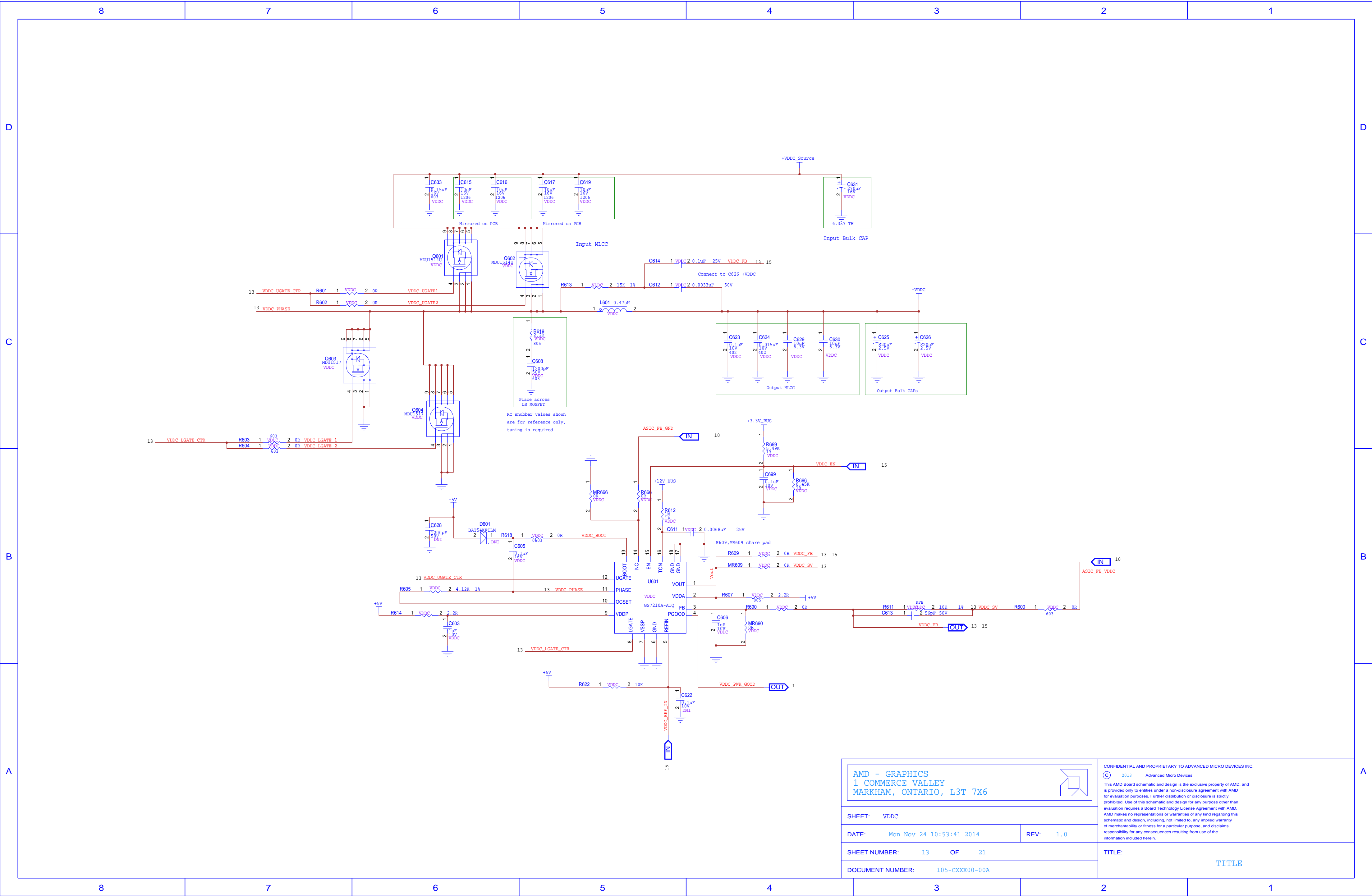
DOCUMENT NUMBER: 105-CXXX00-00A

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TITLE: TITLE

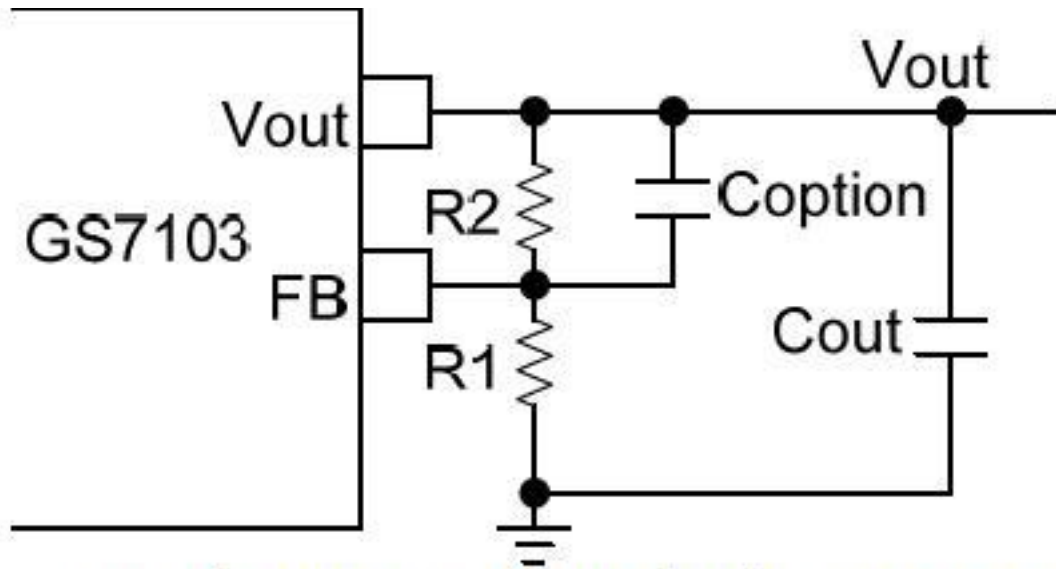
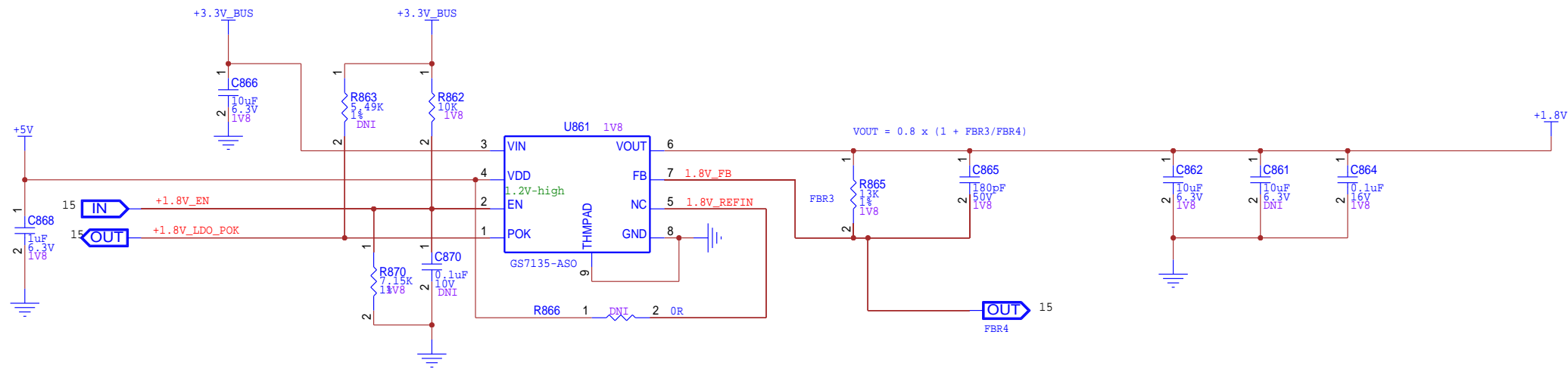




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SHEET: VDDC		TITLE:	
DATE: Mon Nov 24 10:53:41 2014	REV: 1.0	TITLE	
SHEET NUMBER: 13 OF 21			
DOCUMENT NUMBER: 105-CXXX00-00A			

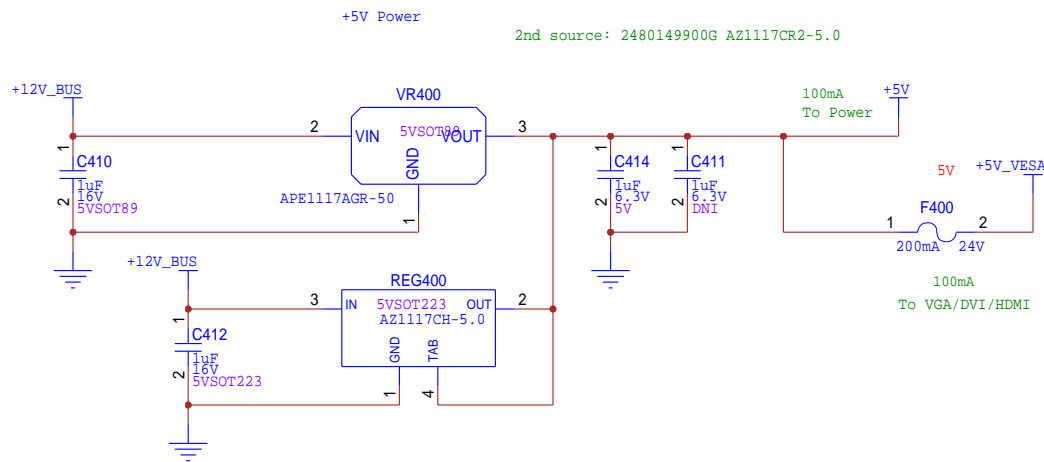
Linear Regulators

LDO #2: Vin = 3.00V to 3.60V (3.3V +/- 9%) Vout = +1.8V +/- 2% Iout = 1.6A (TBV) RMS MAX
PCB: 50 to 70mm sq. copper area for cooling



C_{OPTION} can improve transient response, and recommend value as follow:

V _{OUT}	R2	C _{OPTION}
0.8V ~ 1.6V	0 ~ 10 KΩ	470pF~1nF
1.6V ~ 2.4V	10 KΩ ~ 20 KΩ	100pF~500pF
2.4V ~ 3.6V	20 KΩ ~ 30 KΩ	20pF~300pF



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SHEET: Linear Regulators

DATE: Mon Nov 24 10:53:43 2014REV: 1.0

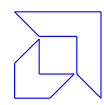
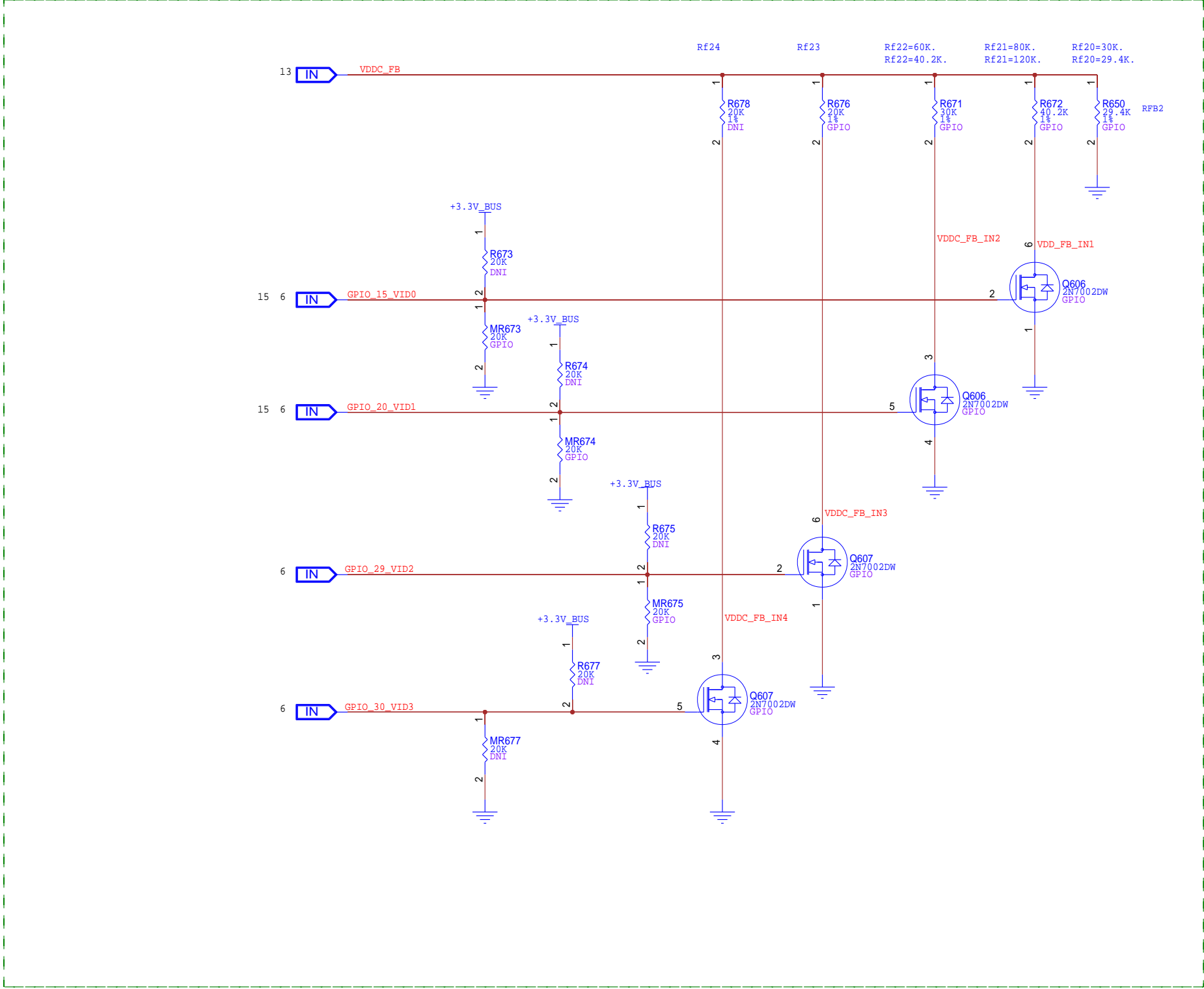
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DOCUMENT NUMBER: 105-CXXX00-00A

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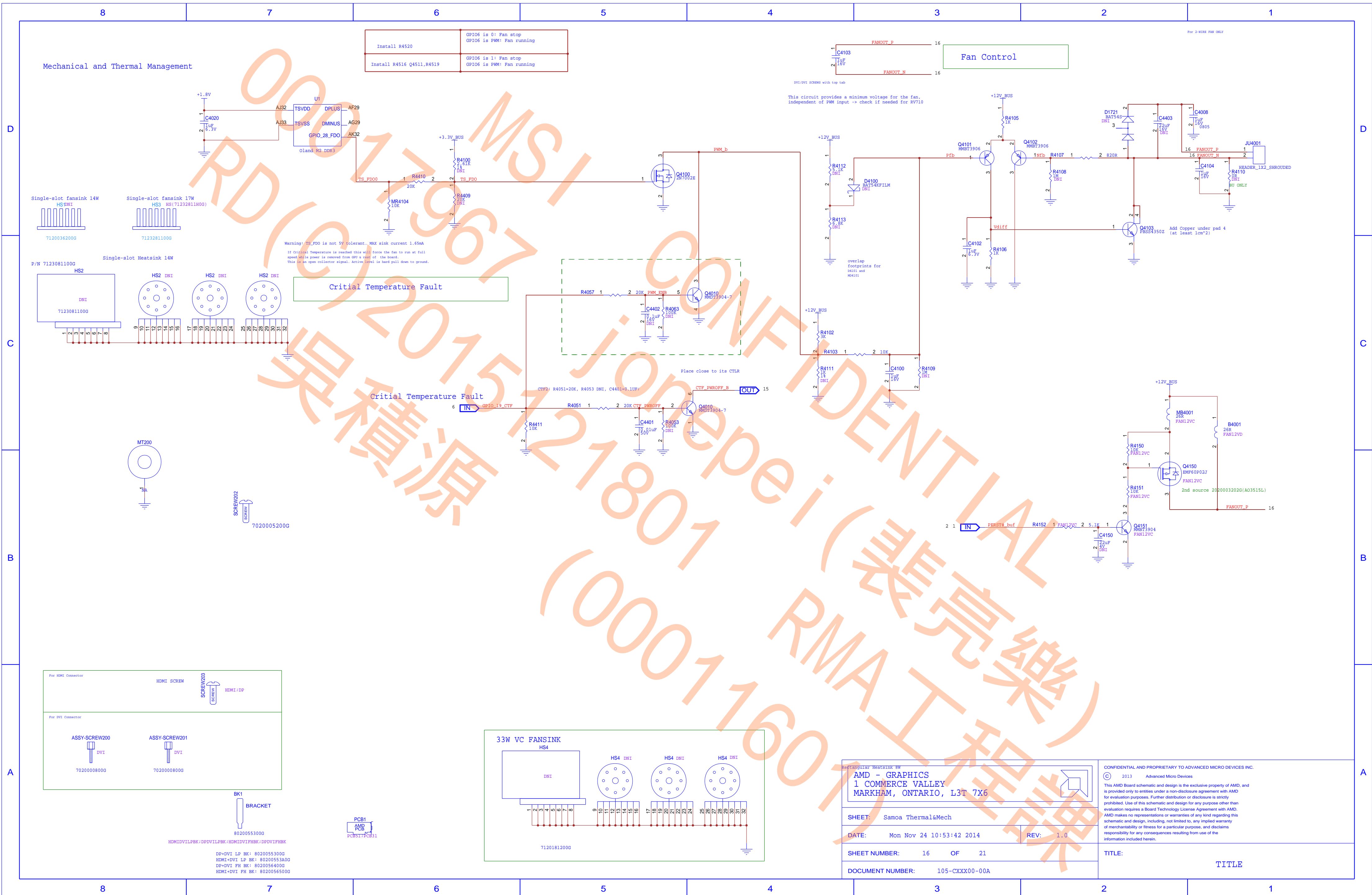
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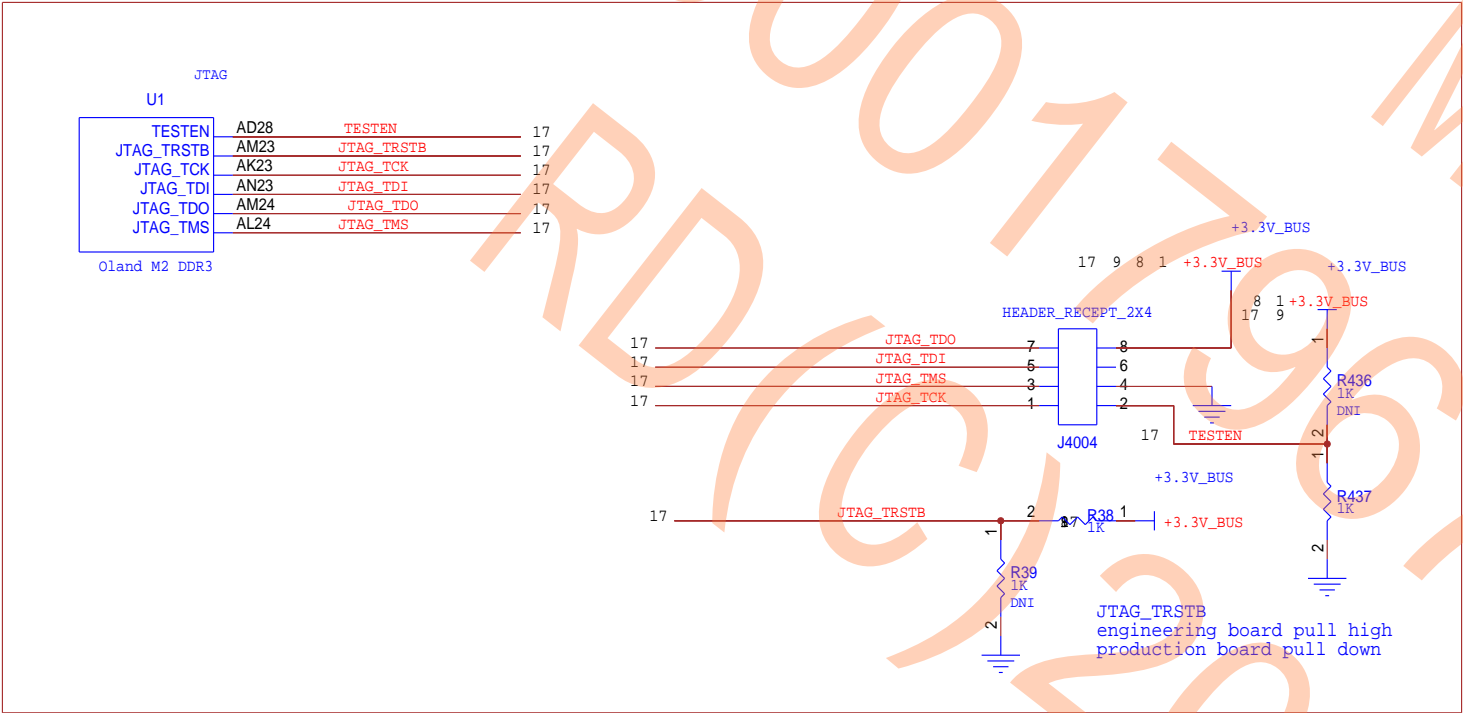


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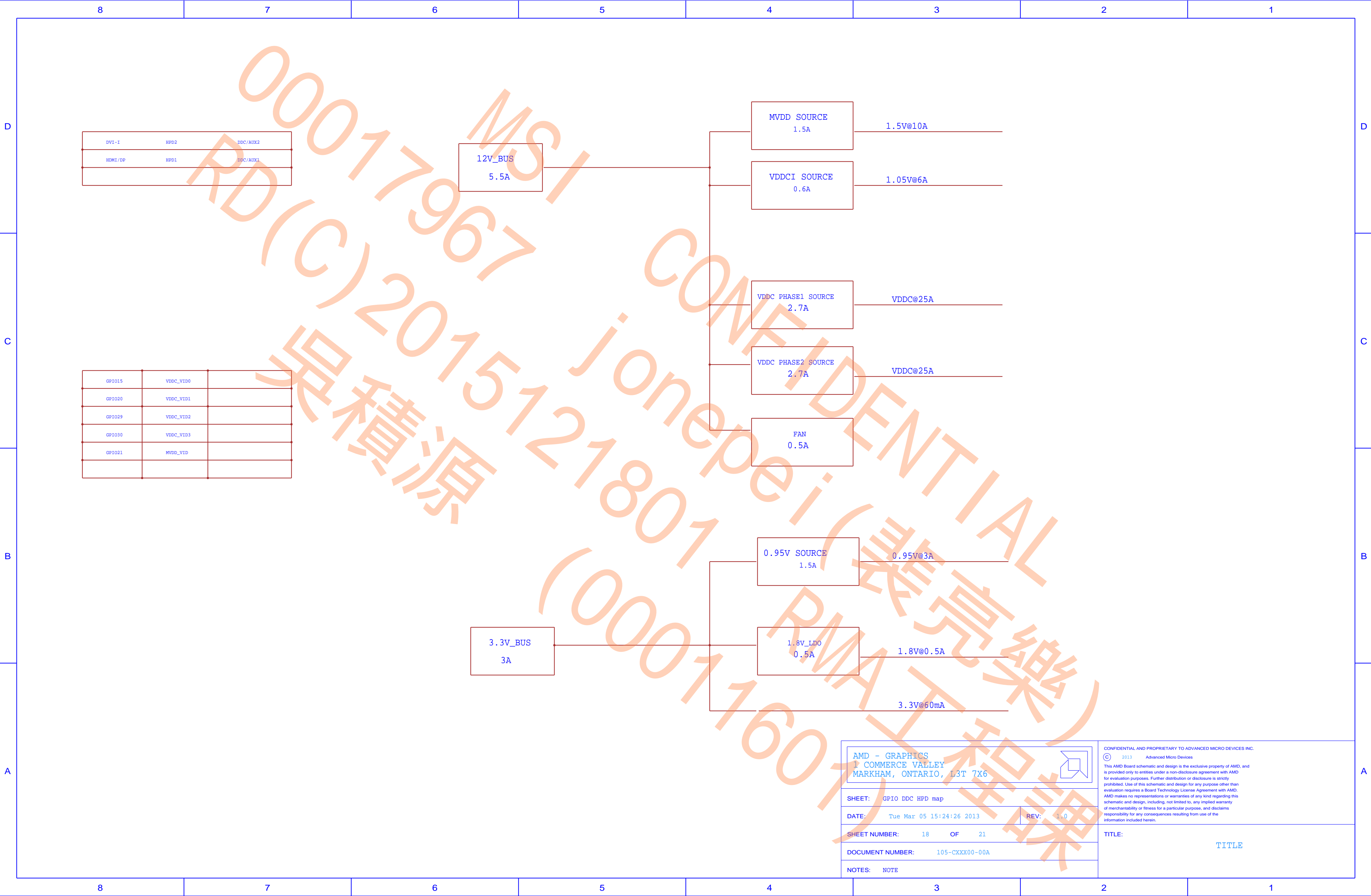
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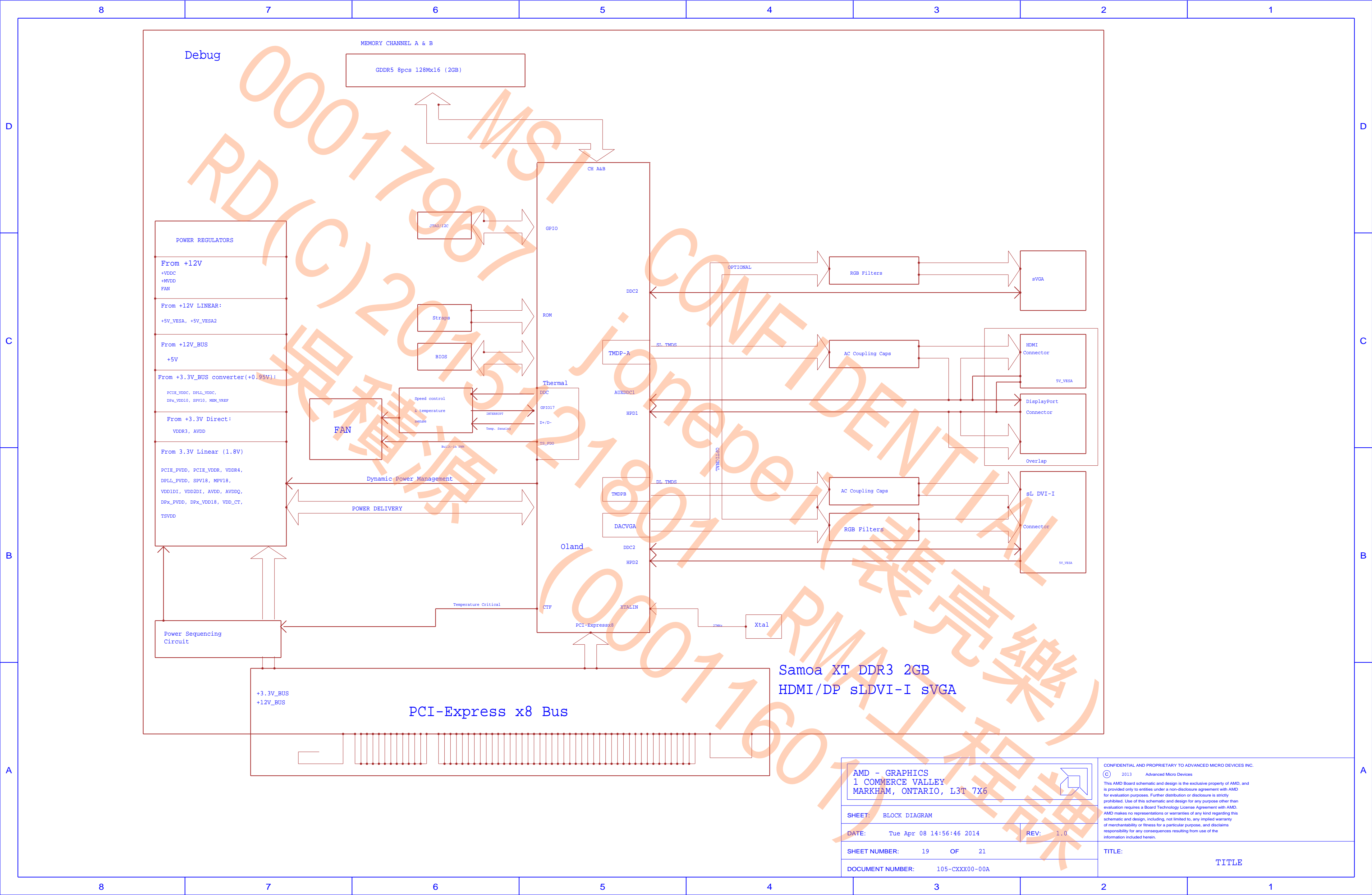


(19) Debug Circuits



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SHEET: Debug Circuit		TITLE:
DATE: Mon Nov 24 10:53:43 2014	REV: 1.0	
SHEET NUMBER: 17 OF 21		TITLE
DOCUMENT NUMBER: 105-CXXX00-00A		





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
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8	7	6	5	4	3	2	1
D							D
C							C
B							B
A							A
8	7	6	5	4	3	2	1

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