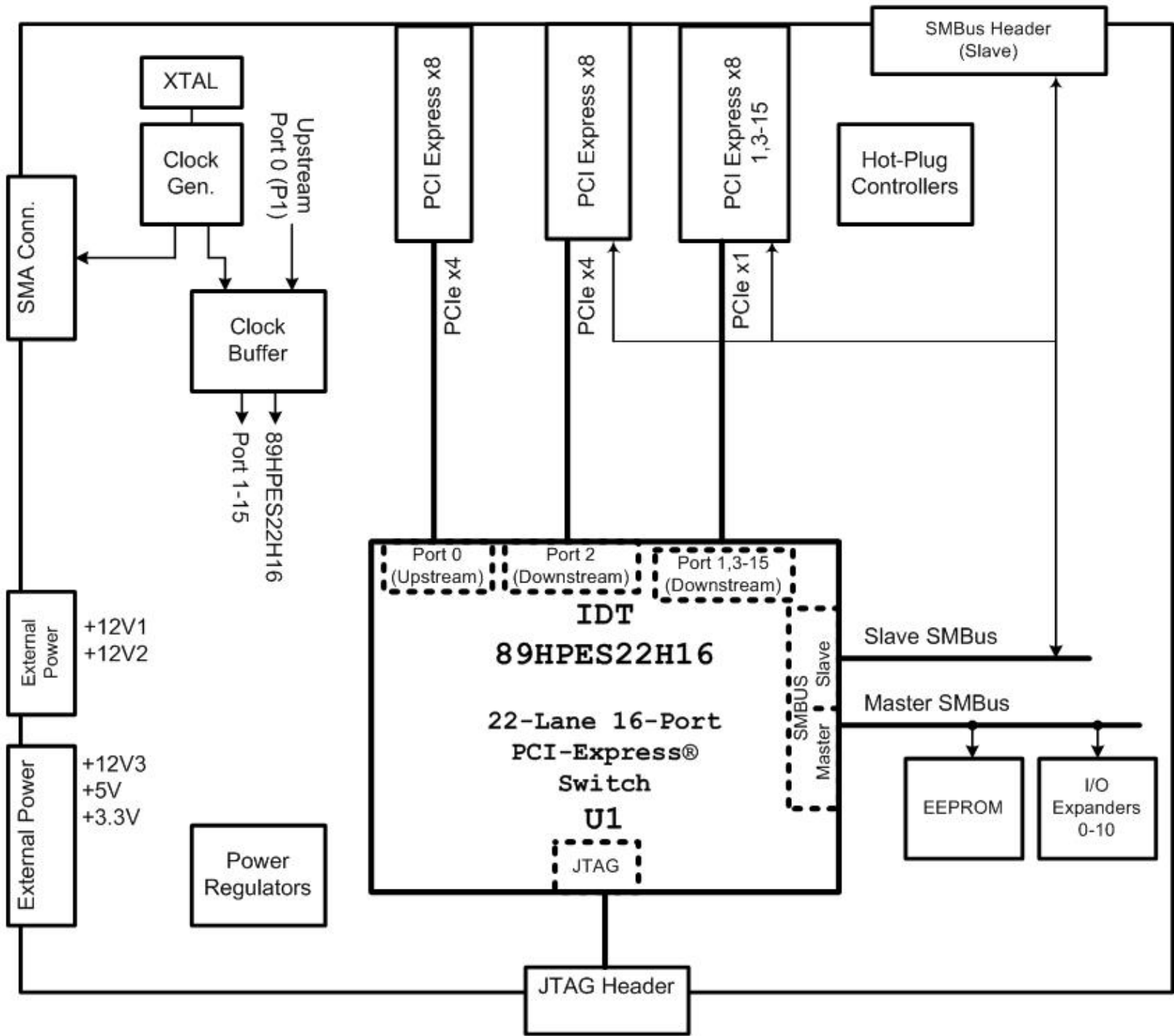


89EBPES22H16 – 89HPES22H16 Evaluation Board



REVISIONS				
DCN	REV	DESCRIPTION	DATE	CHANGE BY
PCB-0158R01	1.0	INITIAL RELEASE	2008-02-21	T. TRAN

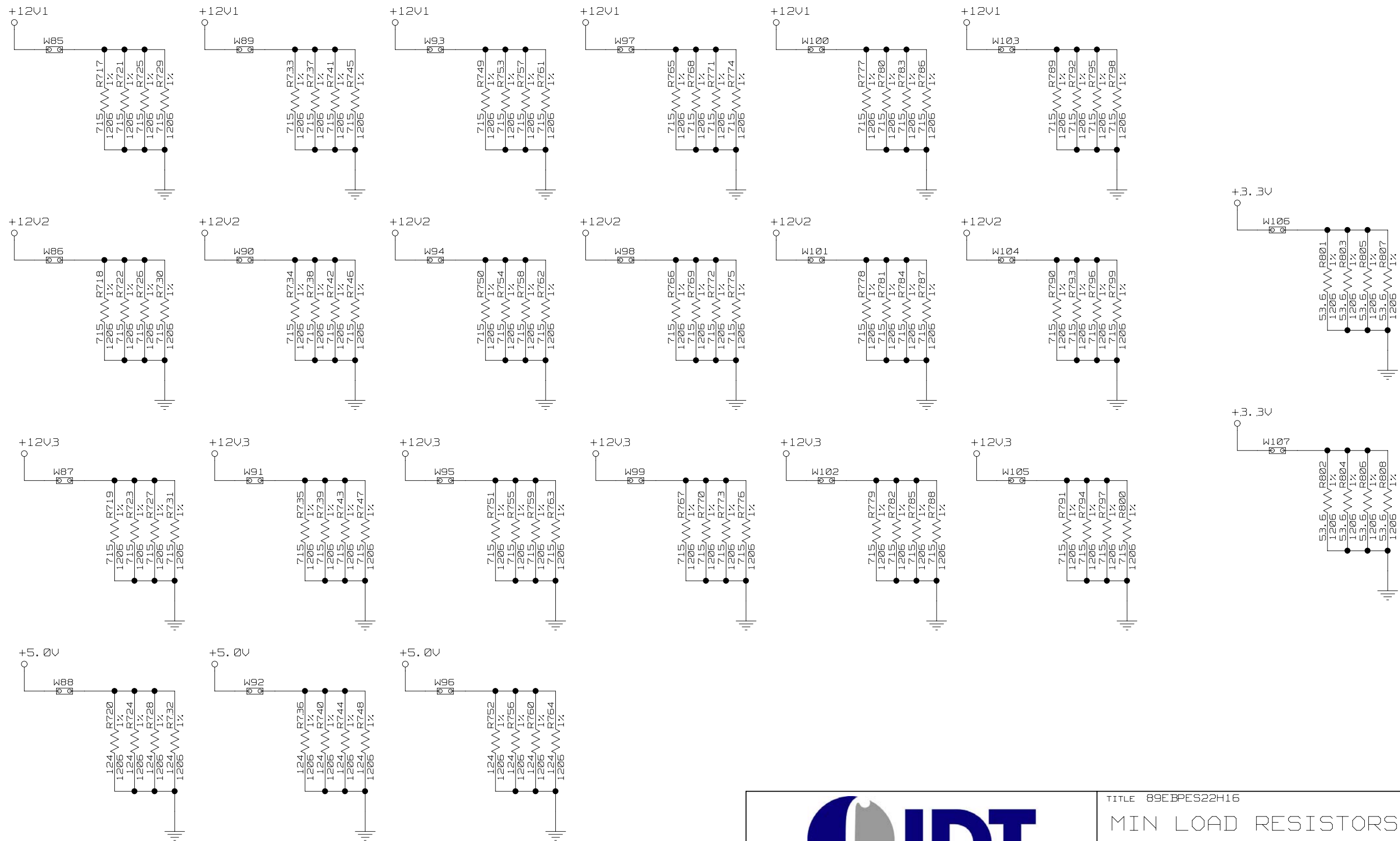
SHEET	DESCRIPTION
1	TABLE OF CONTENTS
2	POWER SUPPLY AND RESET
3	VOLTAGE REGULATORS
4	MINIMUM LOAD RESISTORS
5	CLOCKS
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7	CLOCK BUFFER (2 OF 3)
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9	IO EXPANDER P1-P8
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17	HOT PLUG – MOSFETS PORTS 1-3
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22	PCI EXPRESS CONNECTOR PORTS 0/1
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24	PCI EXPRESS CONNECTOR PORTS 4/5
25	PCI EXPRESS CONNECTOR PORTS 6/7
26	PCI EXPRESS CONNECTOR PORTS 8/9
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29	PCI EXPRESS CONNECTOR PORTS 14/15
30	89HPES22T16
31	89HPES22T16 – POWER
32	WAKE CONTROL



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TITLE 89EBPES22H16			
TABLE OF CONTENTS			
SIZE B	DRAWING NO. SCH-00158	FAB P/N 18-667-000	REV. 1.0
AUTHOR T. Tran		CHECKED BY D. Huang	
Thu Feb 21 17:08:26 2008			SHEET 1 OF 32





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TITLE	89EBPES22H16
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MIN LOAD RESISTORS

SIZE	
B	

DRAWING NO.
SCH-00158

FAB P/N

18-667-000

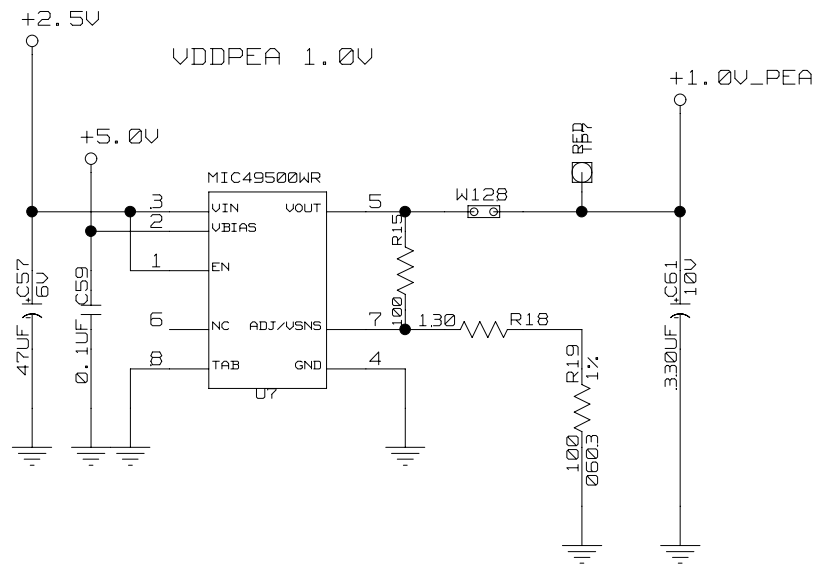
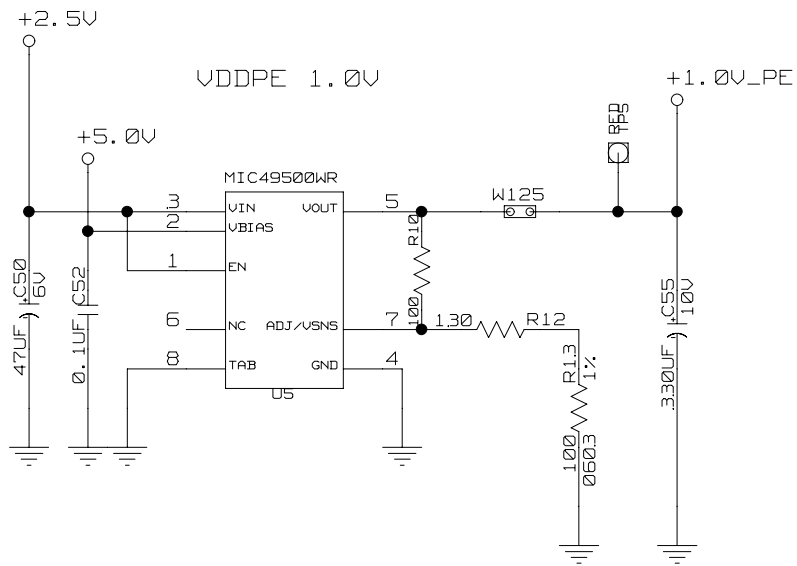
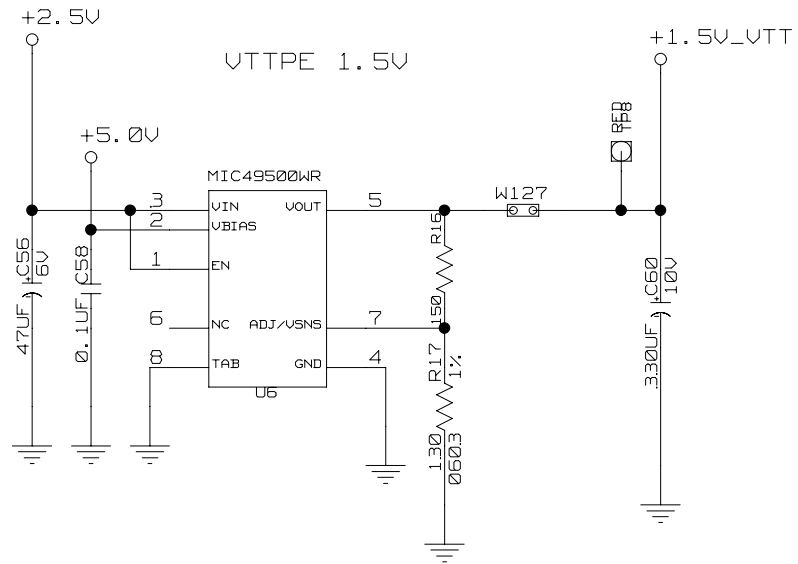
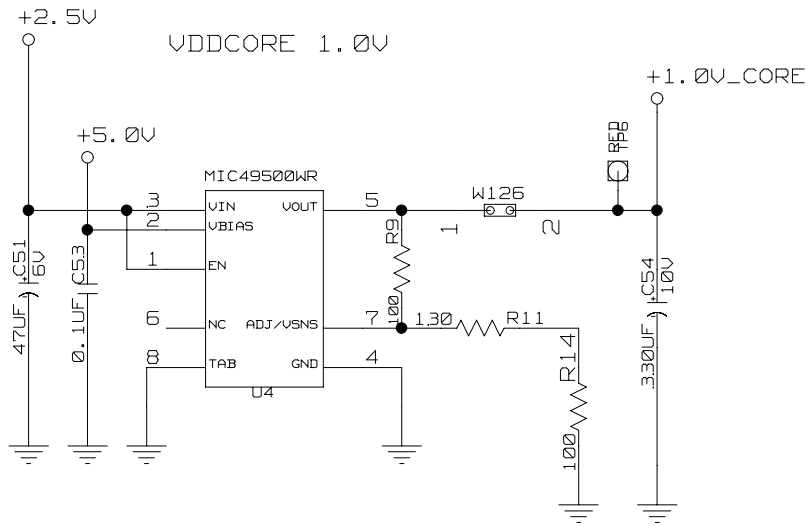
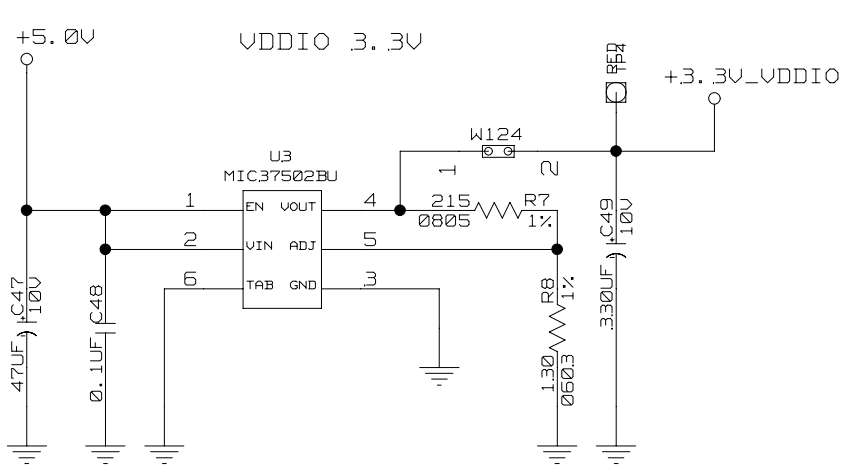
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1.0

AUTHOR	T. Tran
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Wed Mar 19 15:52:10 2008

SHEET .3 OF .32



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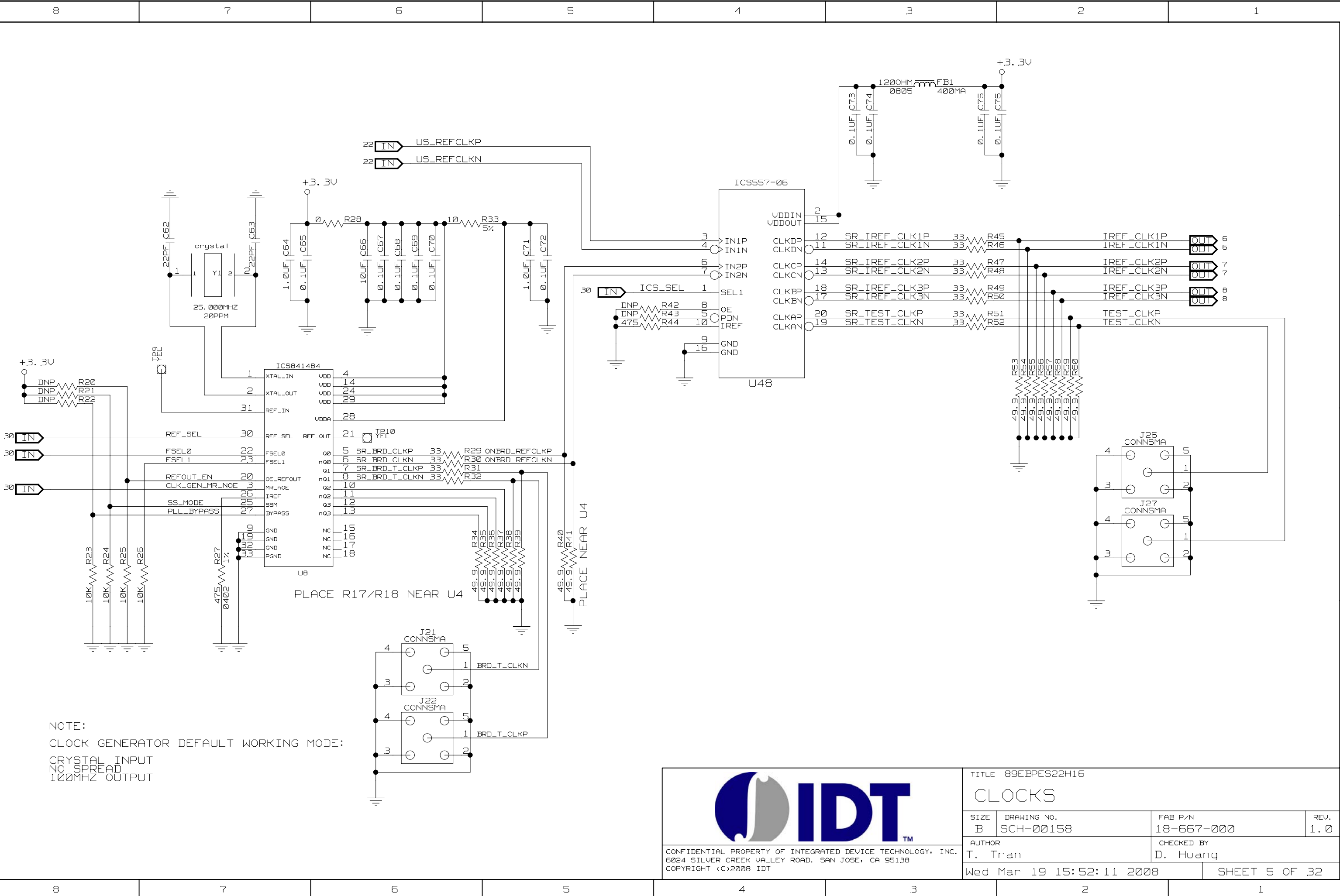
POWER REGULATORS

SIZE B	DRAWING NO. SCH-00158	FAB P/N 18-667-000	REV. 1.0
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AUTHOR T. Tran	CHECKED BY D. Huang
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Wed Mar 19 15:52:11 2008

SHEET 4 OF 32

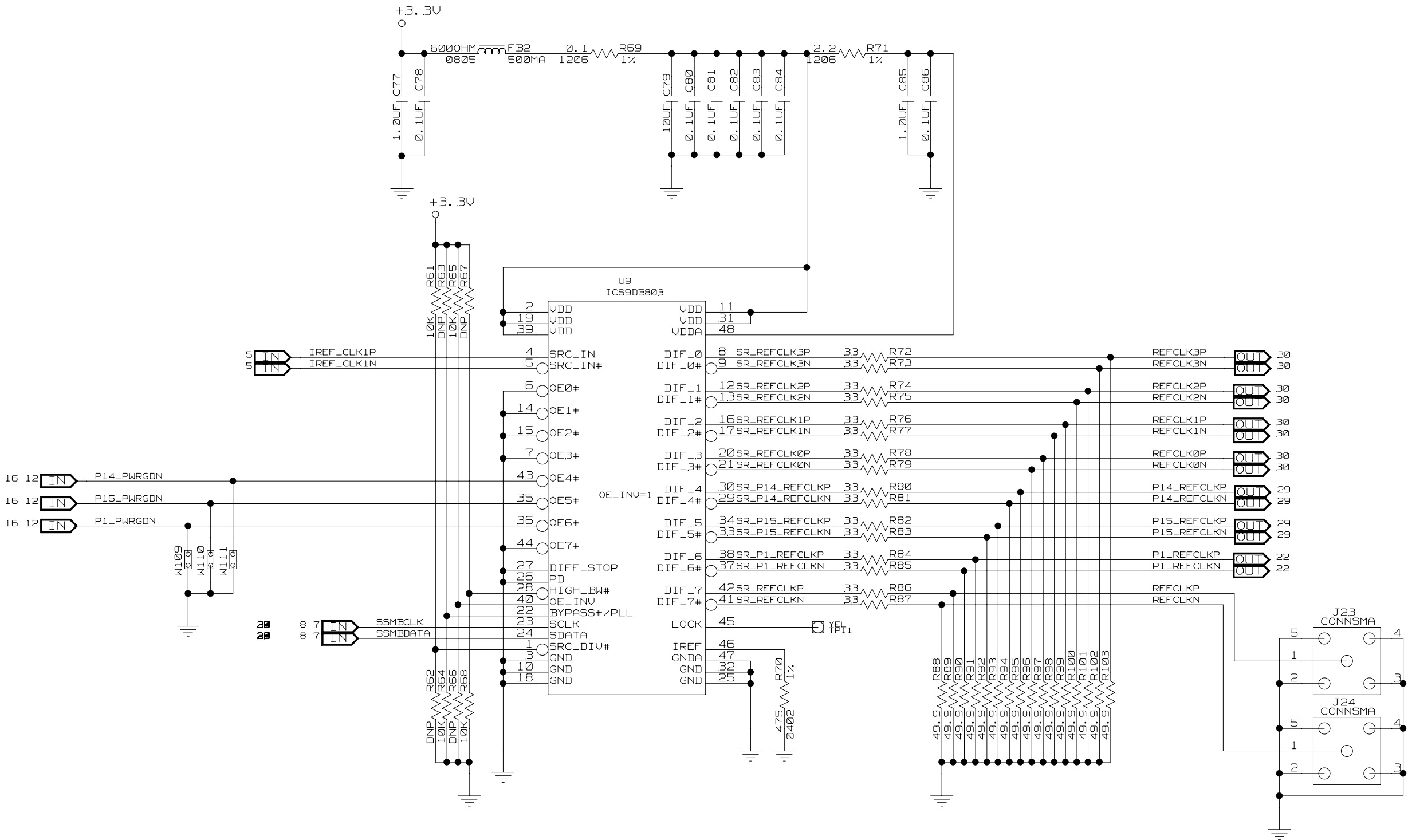


NOTE:
CLOCK GENERATOR DEFAULT WORKING MODE:
CRYSTAL INPUT
NO SPREAD
100MHZ OUTPUT



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TITLE 89EBPES22H16 CLOCKS			
SIZE B	DRAWING NO. SCH-00158	FAB P/N 18-667-000	REV. 1.0
AUTHOR T. Tran		CHECKED BY D. Huang	
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TITLE 89EBPES22H16

CLOCK BUFFER <1 OF 3>

SIZE
B

DRAWING NO.
SCH-00158

FAB P/N
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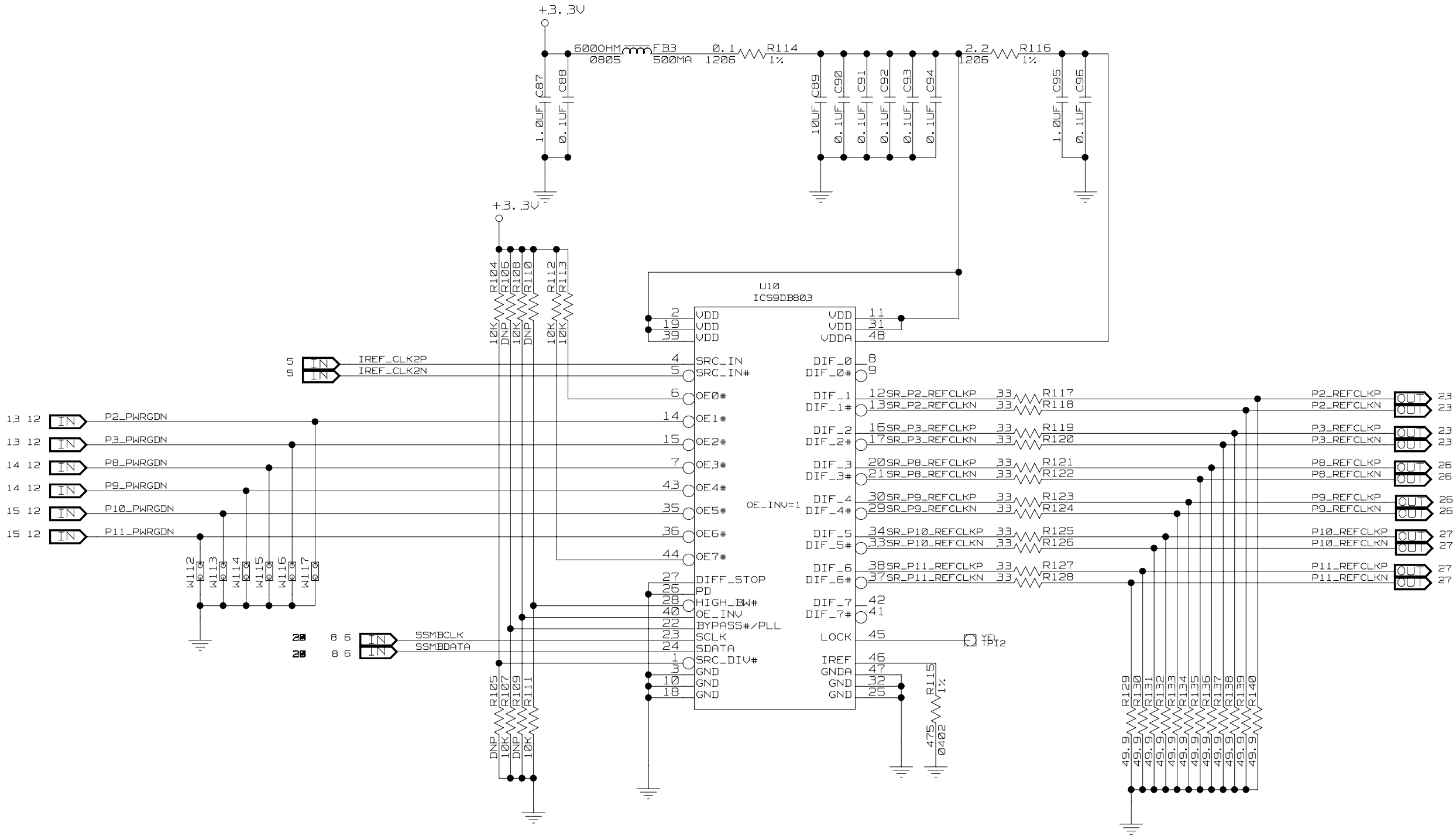
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SHEET 6 OF 32



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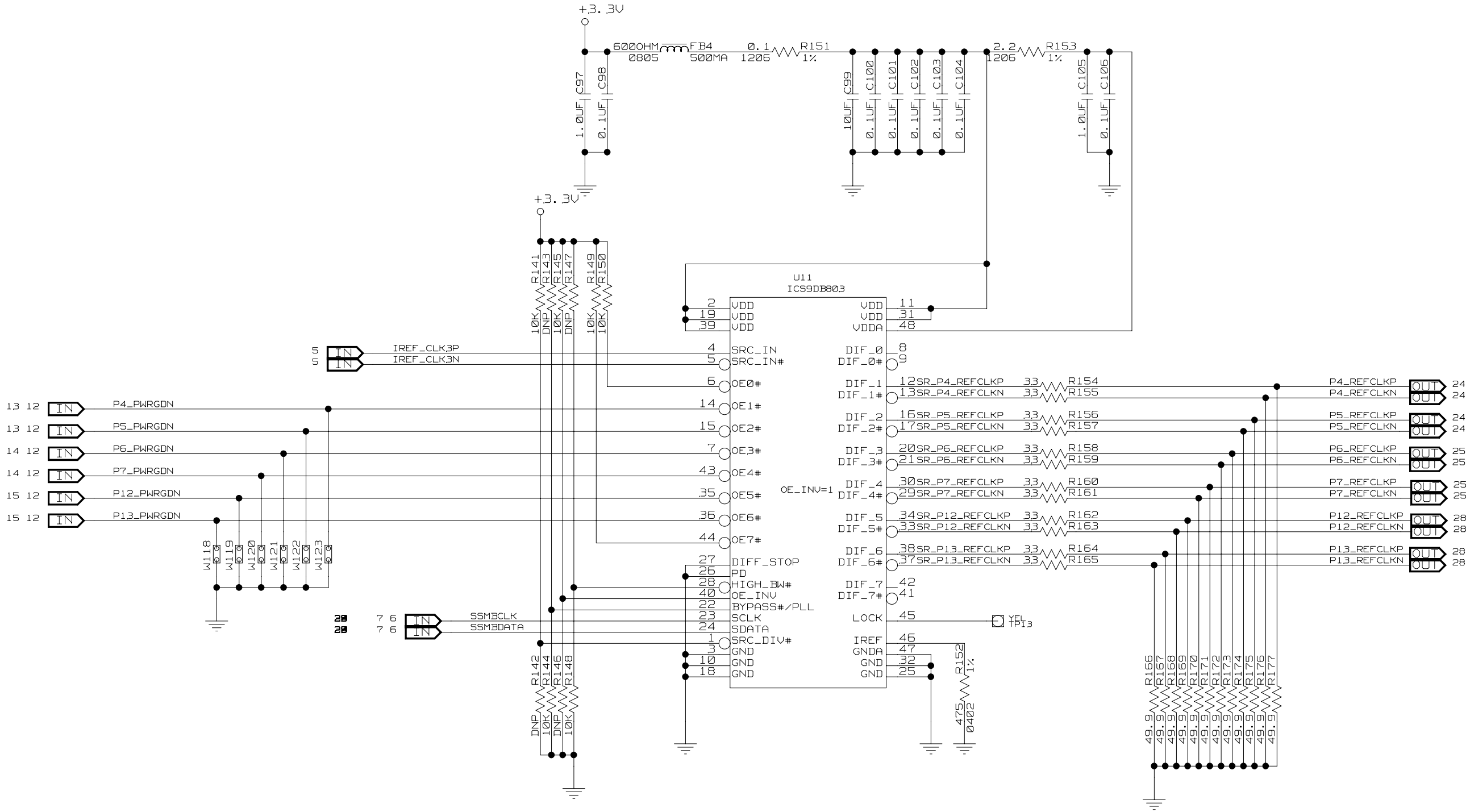
TITLE 89EBPES22H16

CLOCK BUFFER (2 OF 3)

SIZE B	DRAWING NO. SCH-00158	FAB P/N 18-667-000	REV. 1.0
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Wed Mar 19 15:52:12 2008	SHEET 7 OF 32
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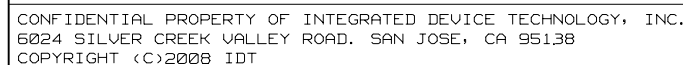
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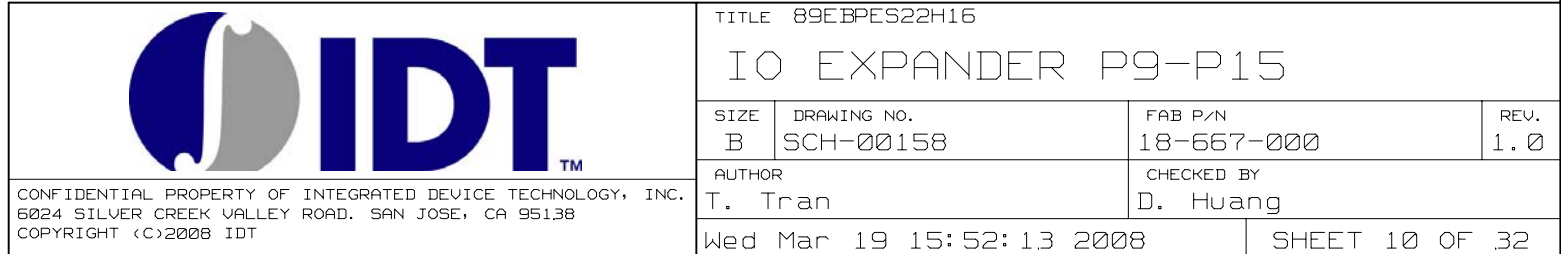
AUTHOR T. Tran	CHECKED BY D. Huang
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Wed Mar 19 15:52:12 2008

SHEET 8 OF 32



SHEET 9 OF 32



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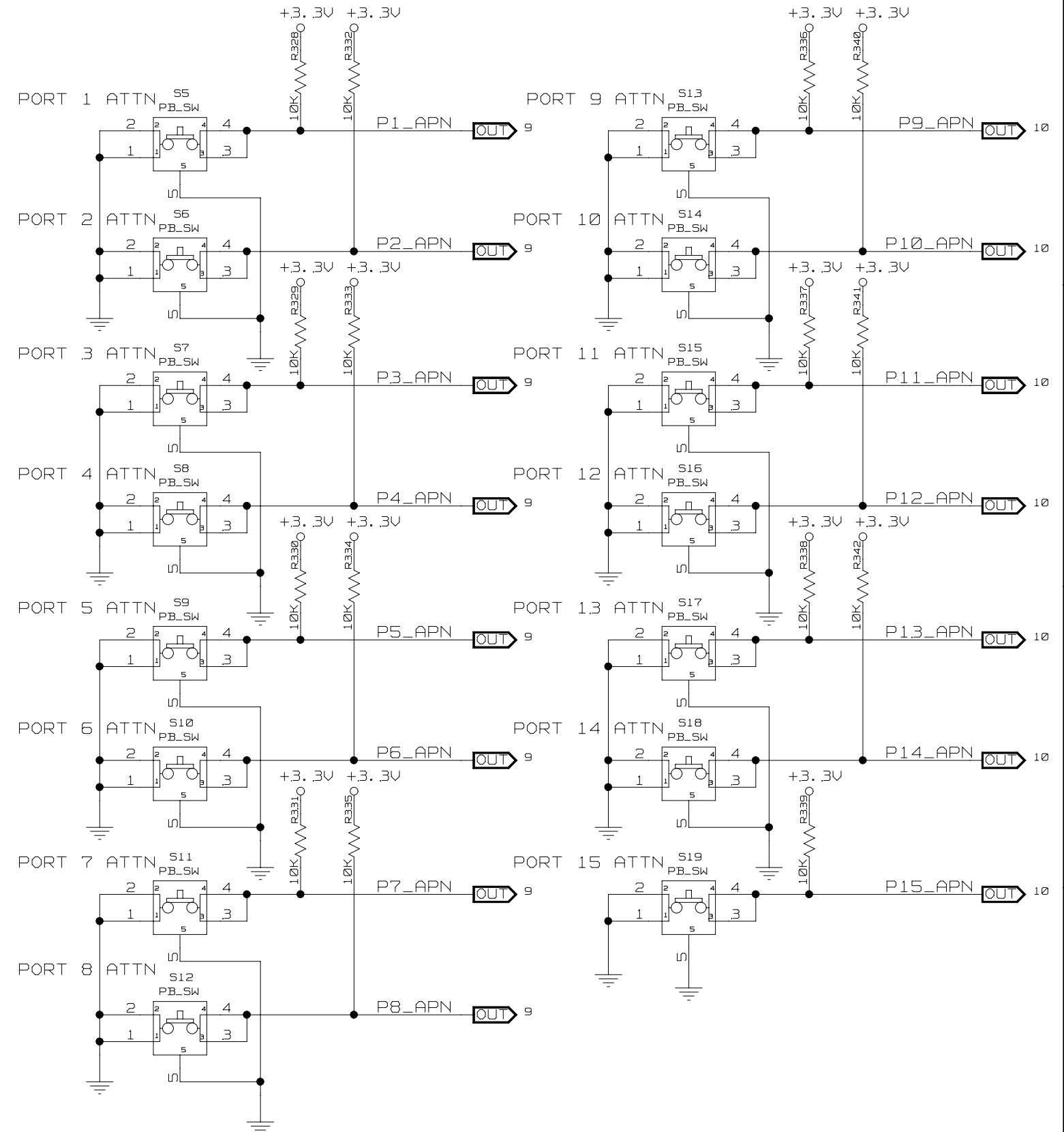
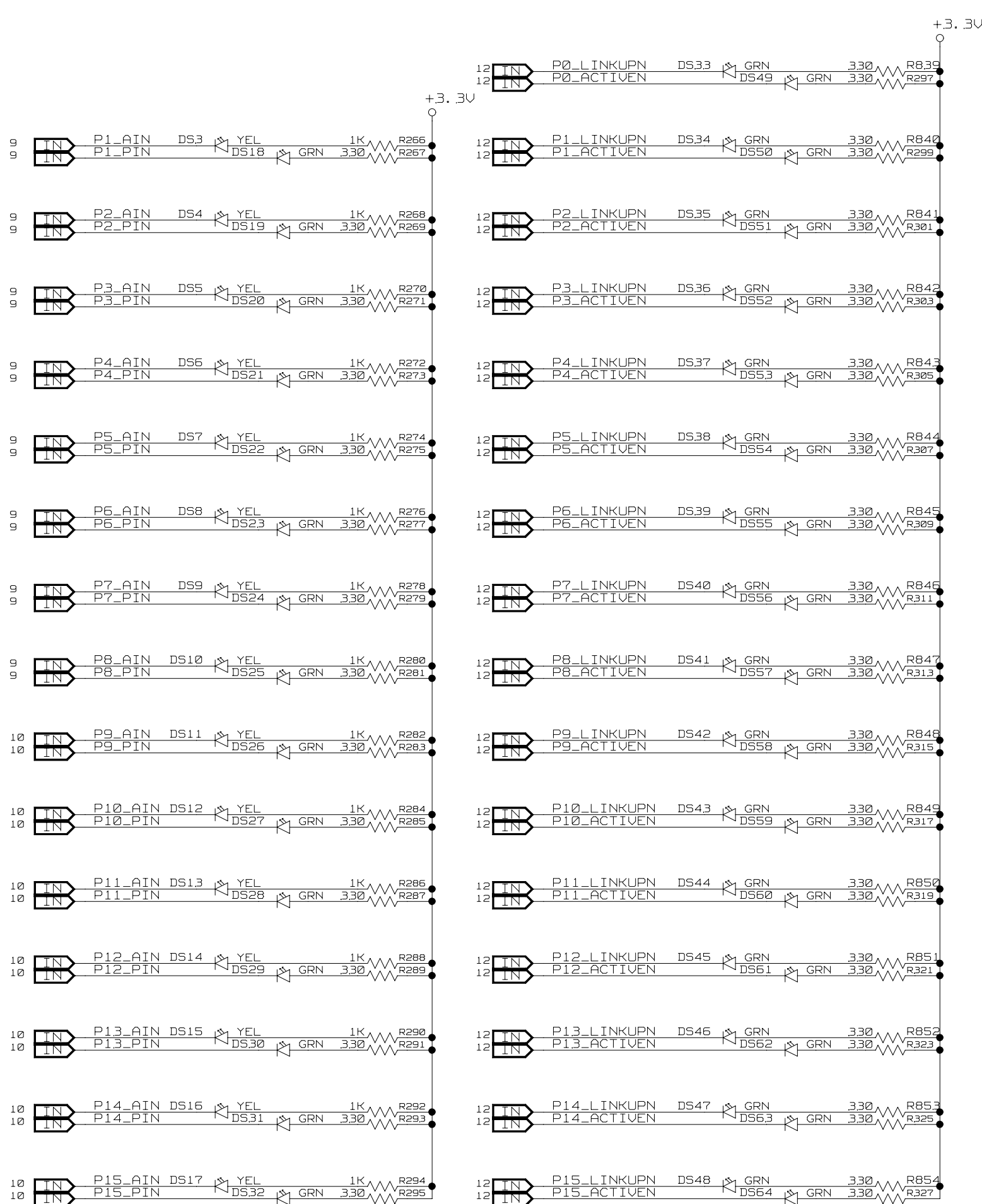
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TITLE	89EBPES22H16
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IO EXPANDER ATTN PB/LEDS

SIZE	R
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DRAWING NO.	SCH-00158
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FAB P/N

18-667-000

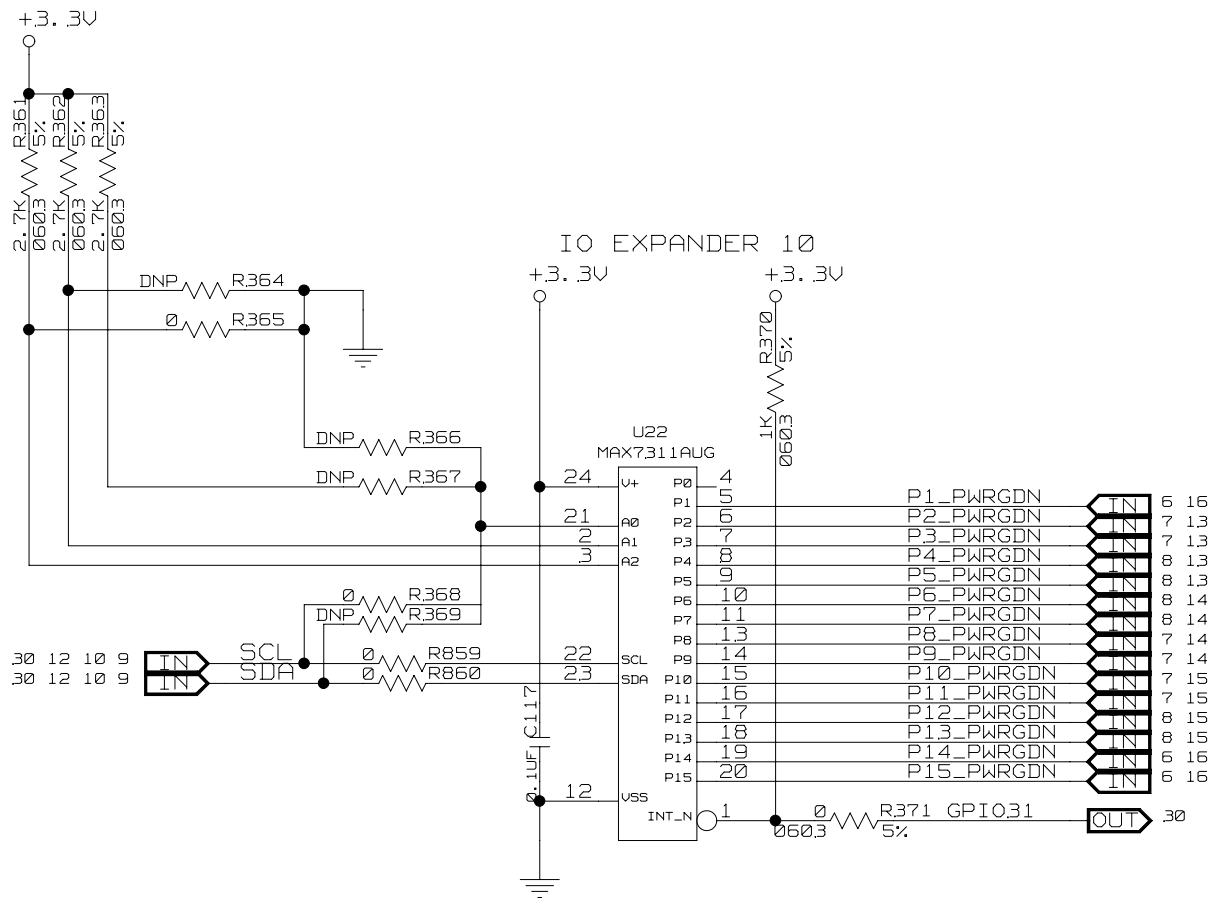
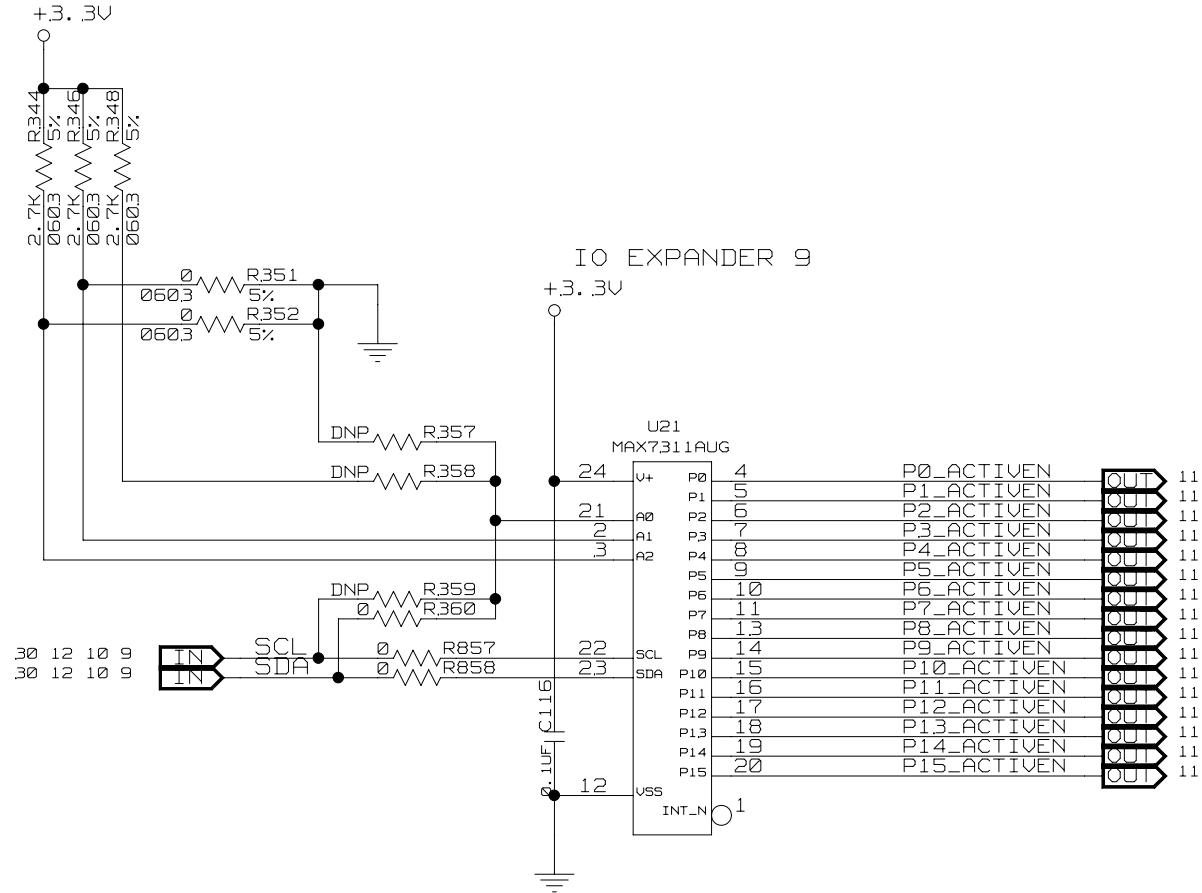
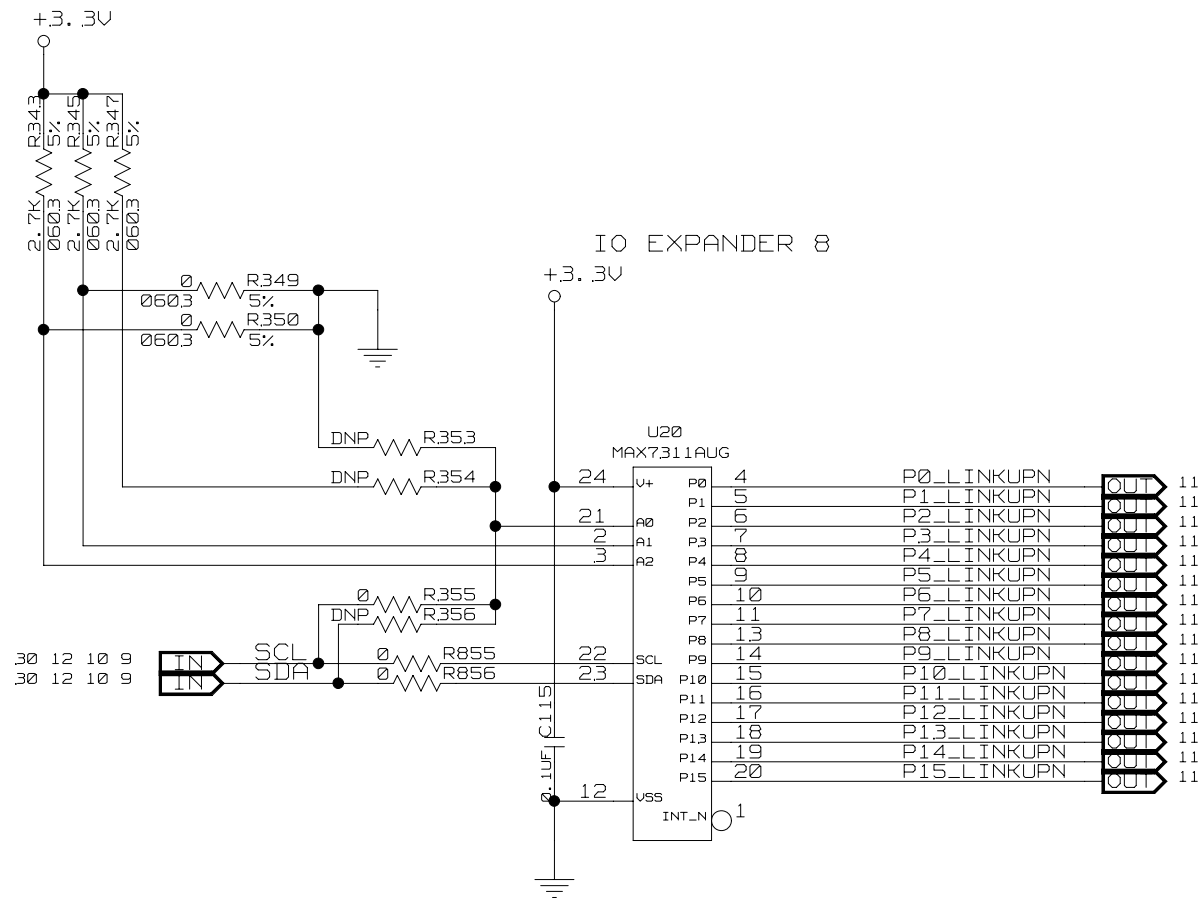
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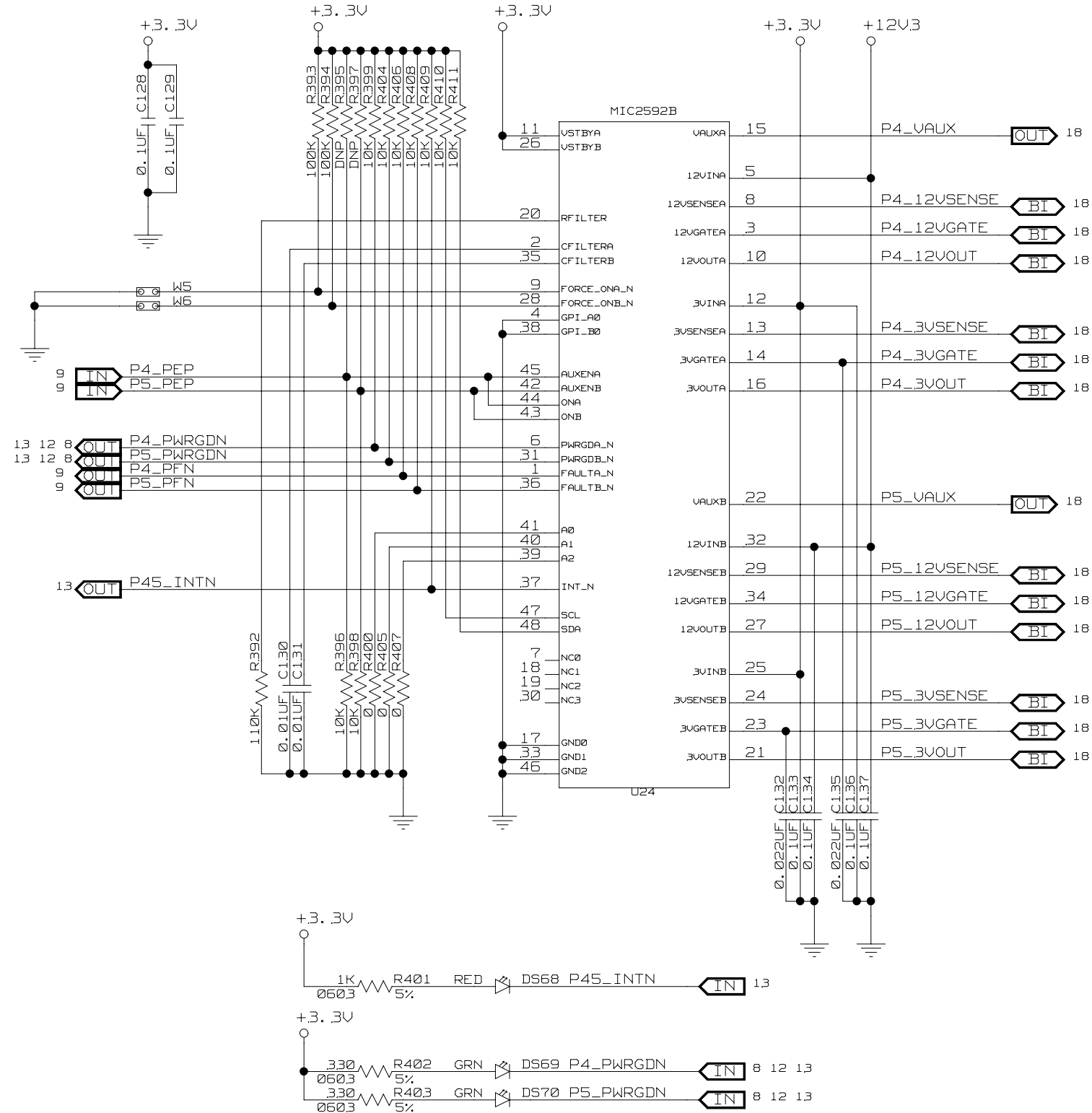
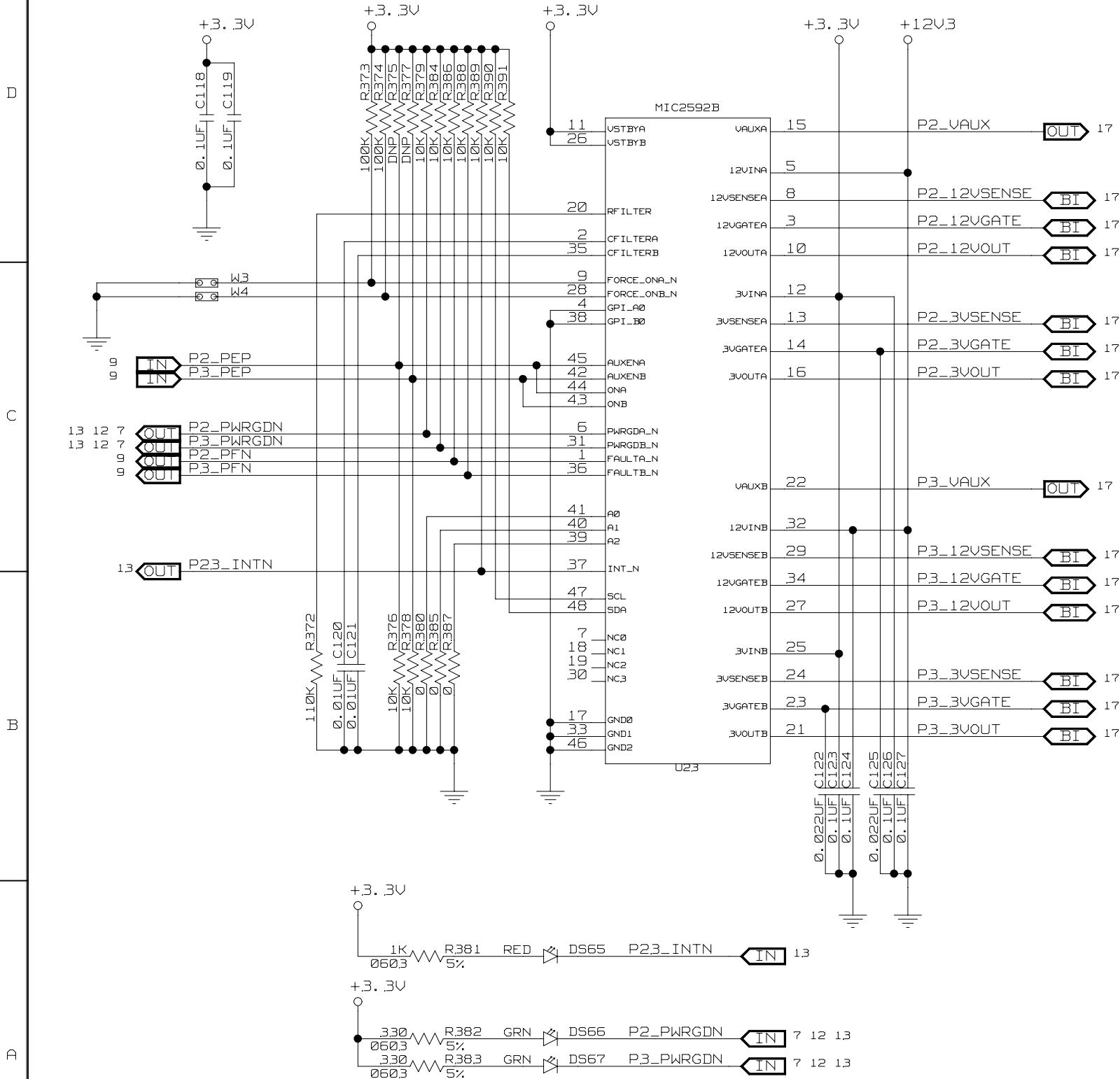
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IO EXPANDER LINK STATUS			
SIZE B	DRAWING NO. SCH-00158	FAB P/N 18-667-000	REV. 1.0
AUTHOR T. Tran		CHECKED BY D. Huang	
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TITLE 89EBPES22H16

HOT PLUG CONTROL PORTS 2-5

SIZE B	DRAWING NO. SCH-00158	FAB P/N 18-667-000	REV. 1.0
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AUTHOR T. Tran	CHECKED BY D. Huang
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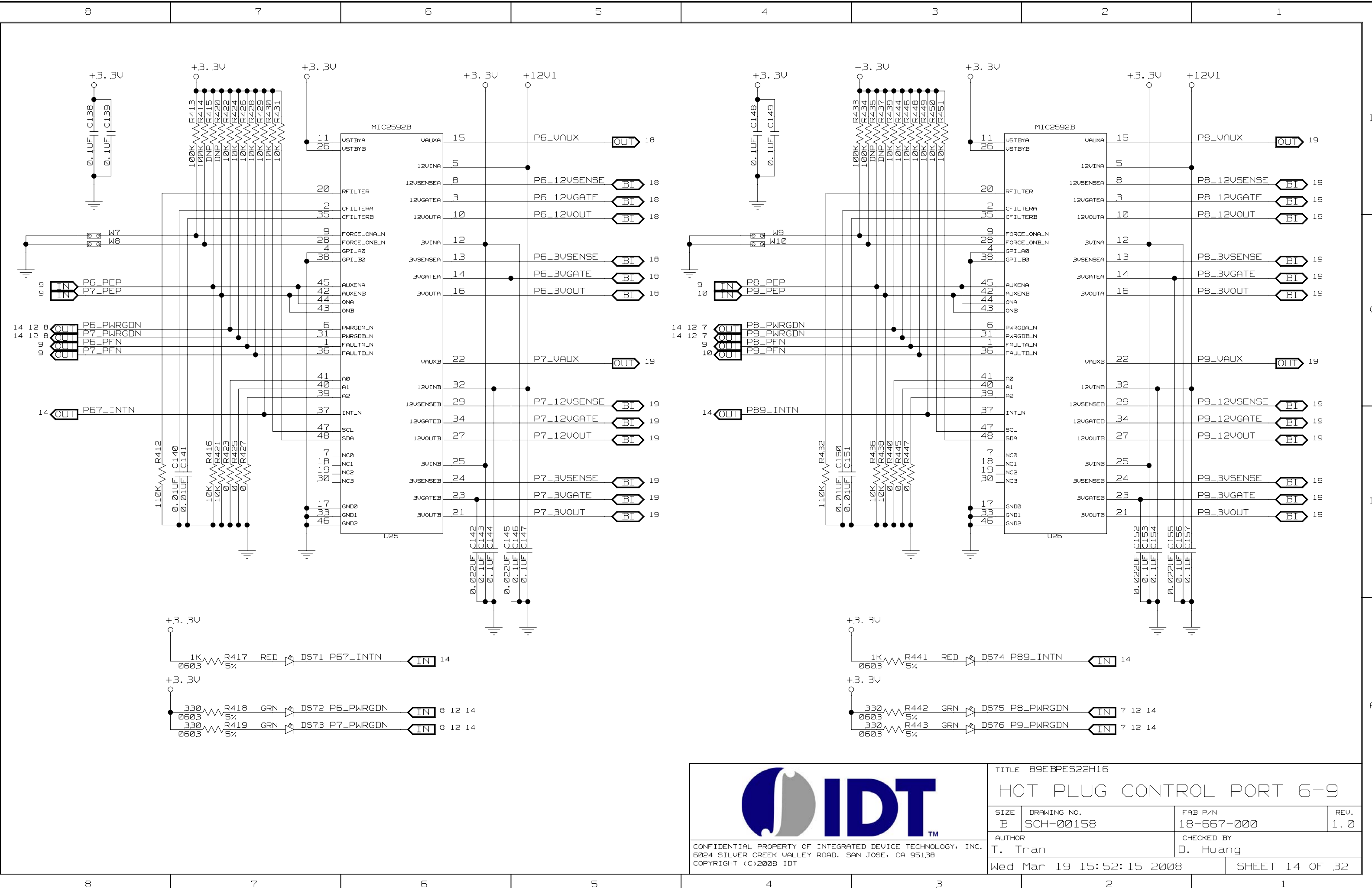
Wed Mar 19 15:52:15 2008	SHEET 13 OF 32
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TITLE 89EBPES22H16			
HOT PLUG CONTROL PORT 6-9			
SIZE B	DRAWING NO. SCH-00158	FAB P/N 18-667-000	REV. 1.0
AUTHOR T. Tran		CHECKED BY D. Huang	
Wed Mar 19 15:52:15 2008			SHEET 14 OF 32

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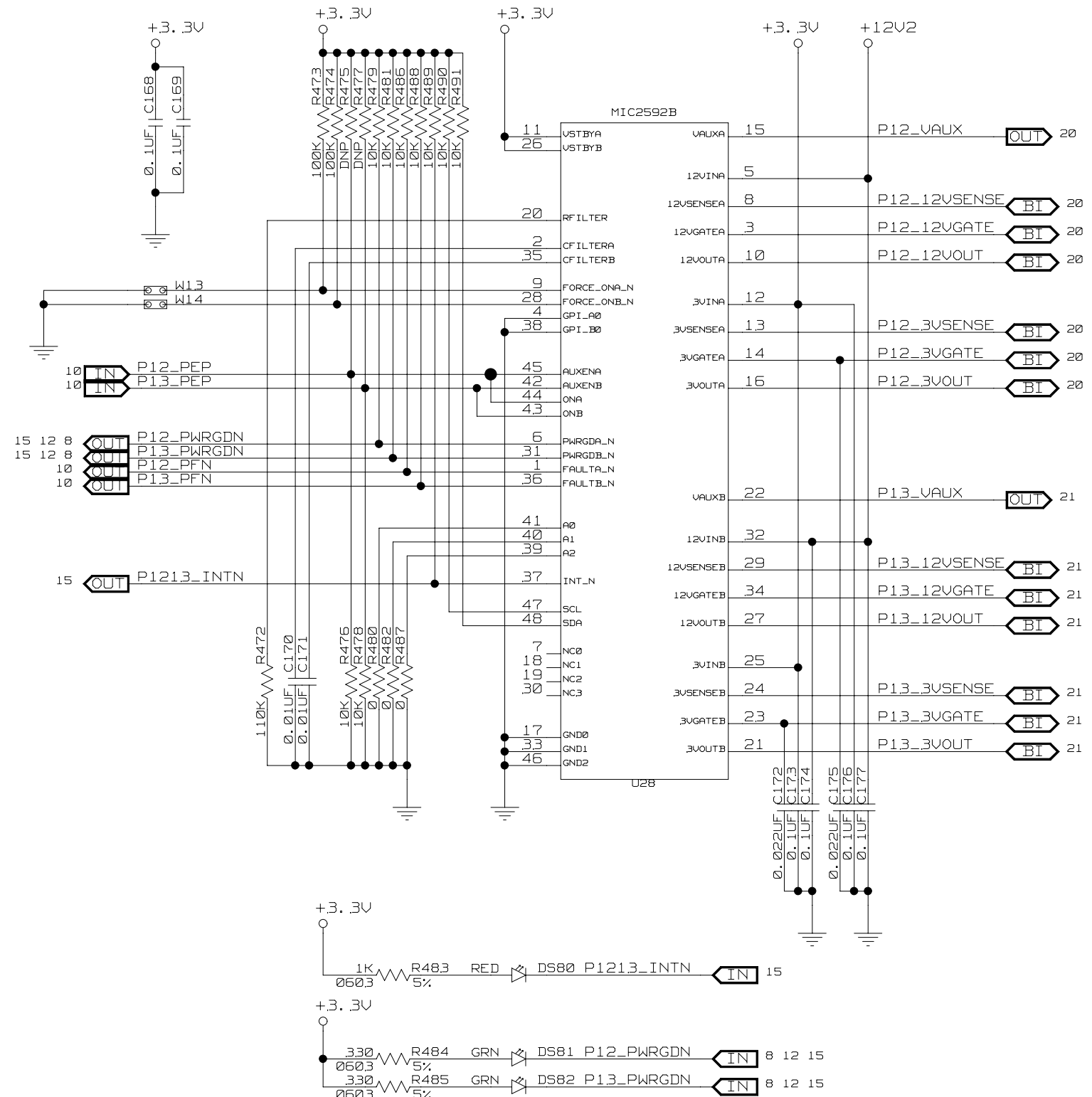
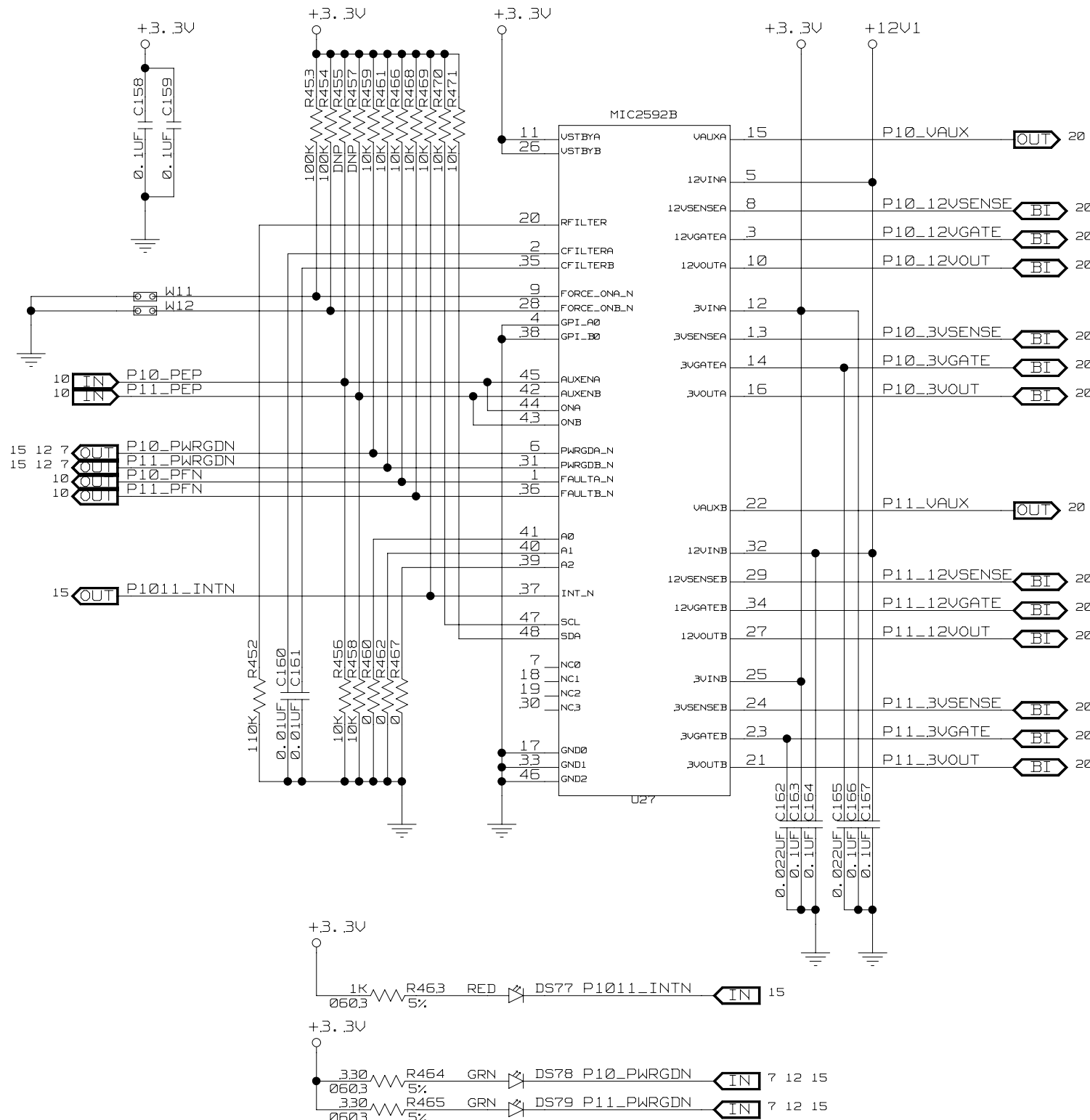
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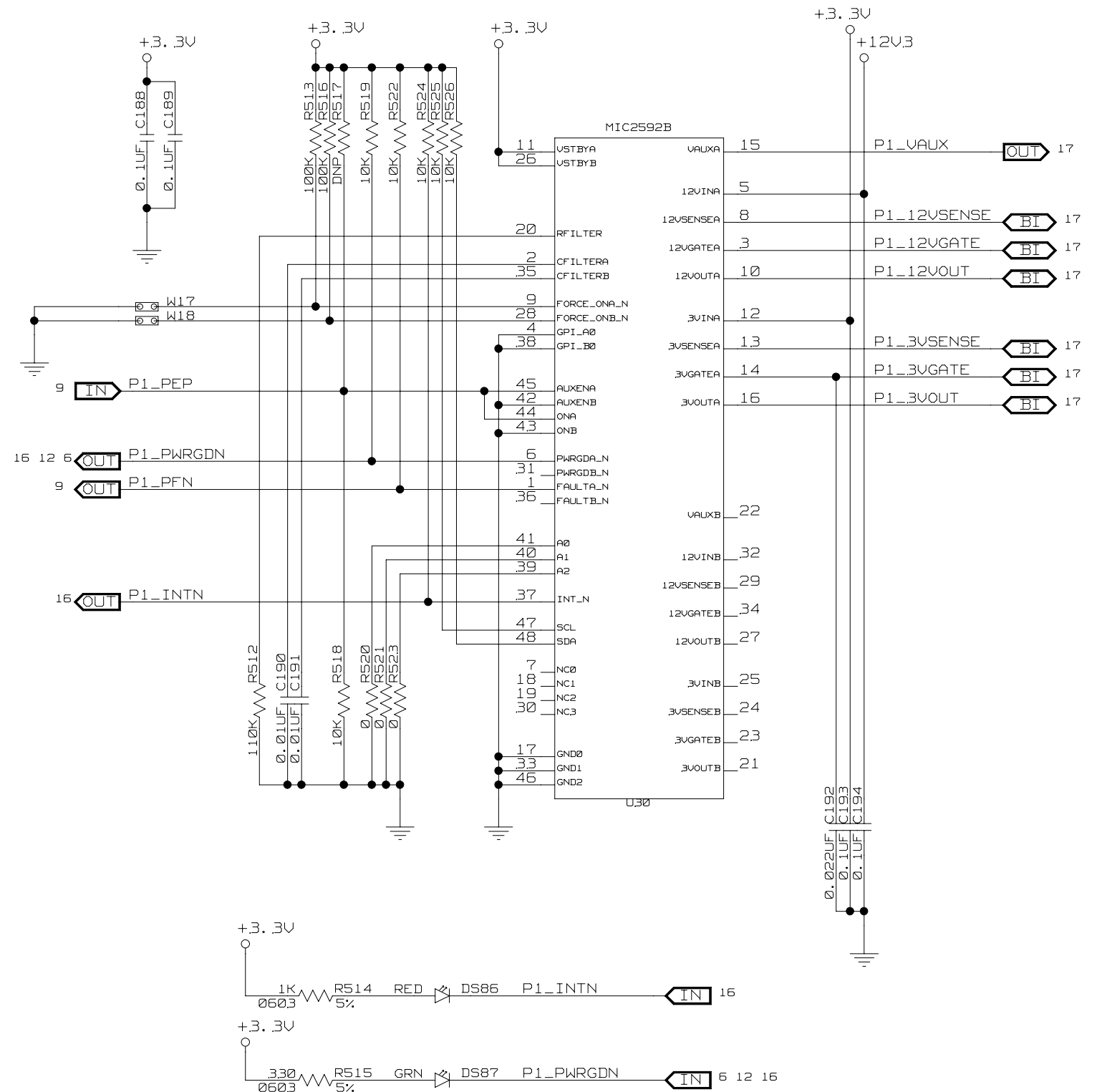
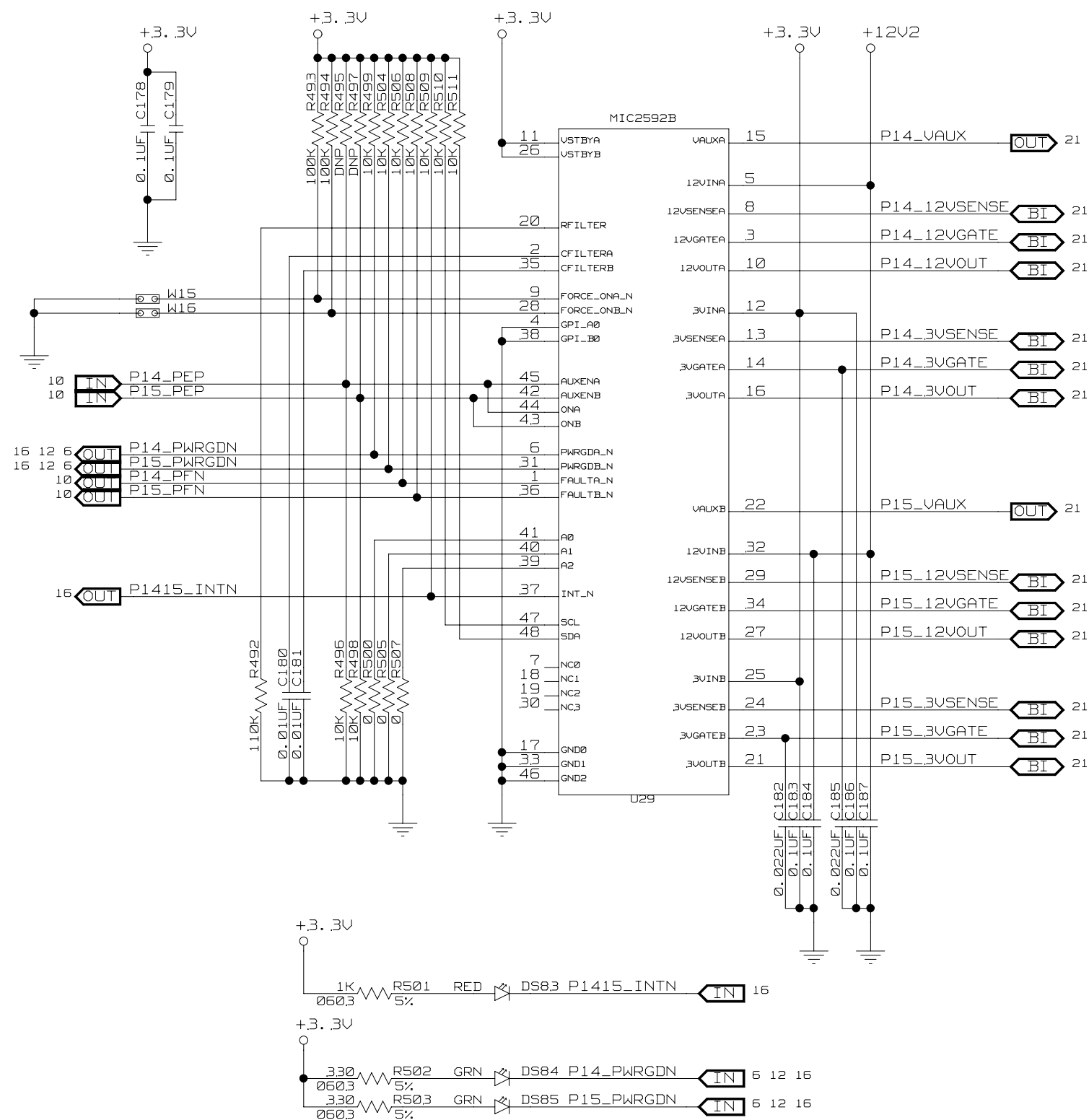
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HOT PLUG CONTROL PORT 10-13			
SIZE B	DRAWING NO. SCH-00158	FAB P/N 18-667-000	REV. 1.0
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TITLE 89EBPES22H16

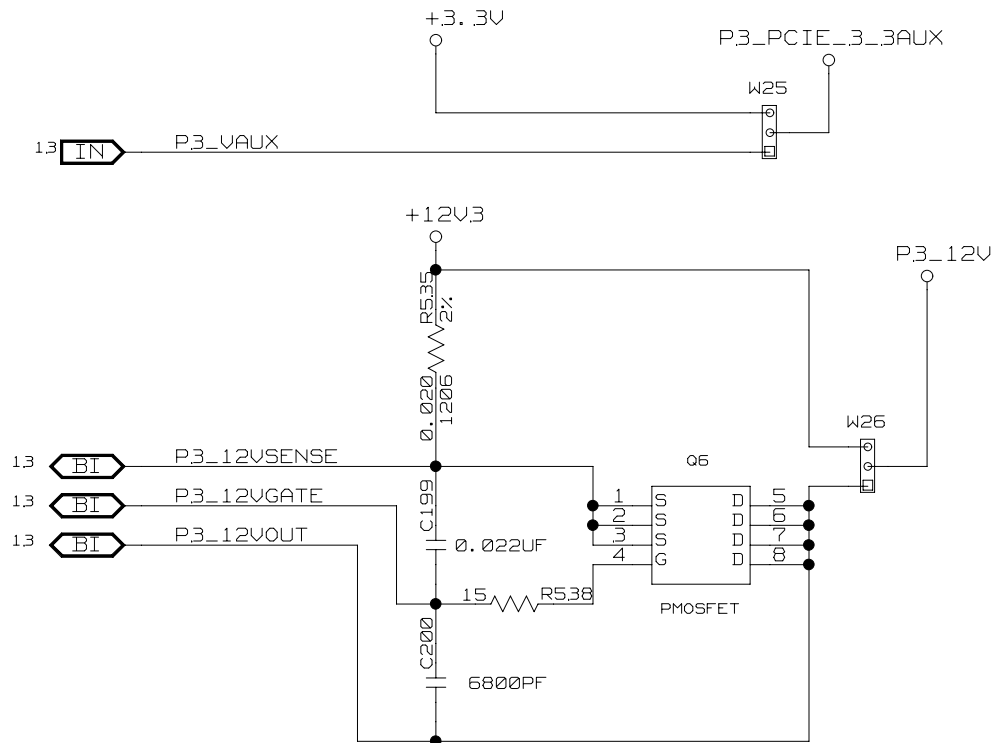
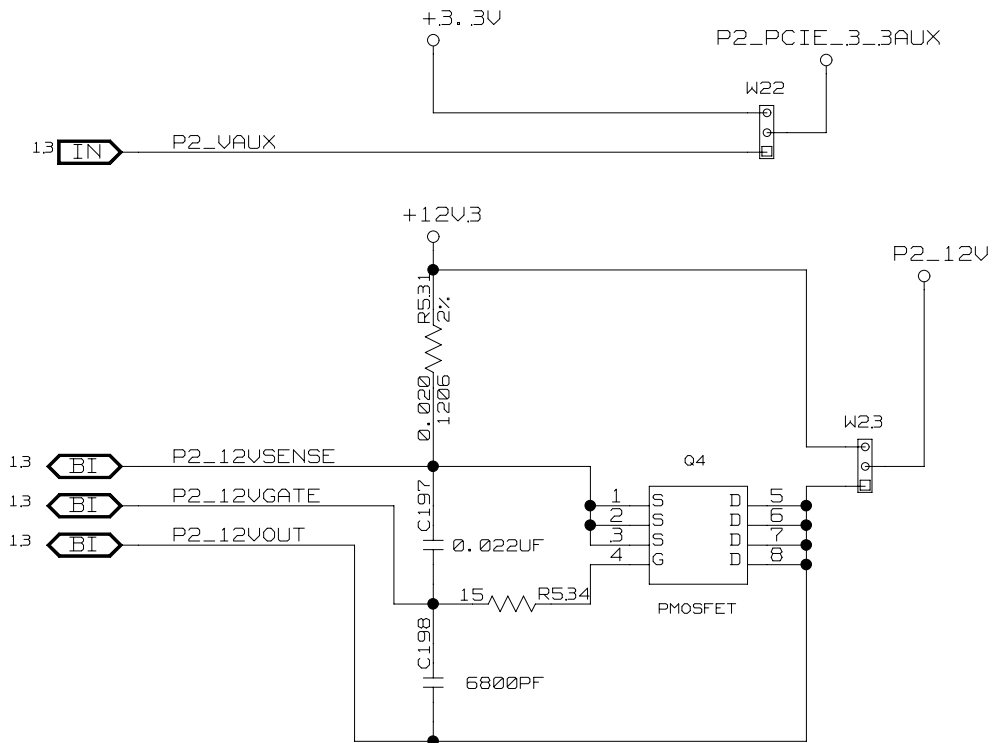
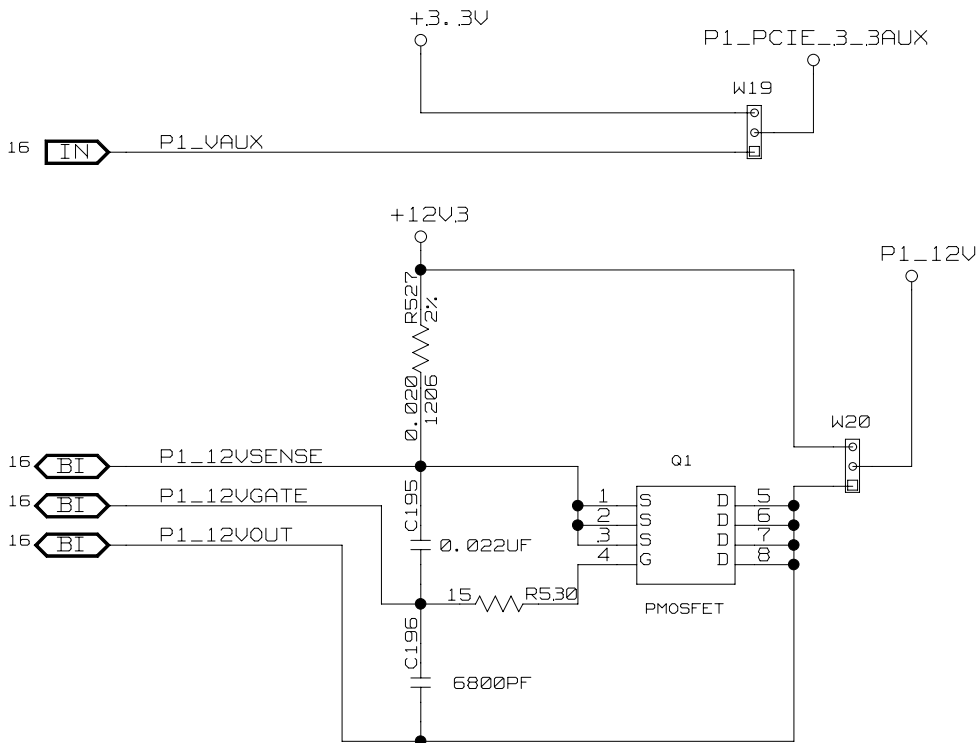
HOT PLUG CONTROLLER 14/15, 1

SIZE	DRAWING NO.	FAB P/N	REV.
B	SCH-00158	18-667-000	1.0

AUTHOR	CHECKED BY
T. Tran	D. Huang

Wed Mar 19 15:52:16 2008

SHEET 16 OF 32

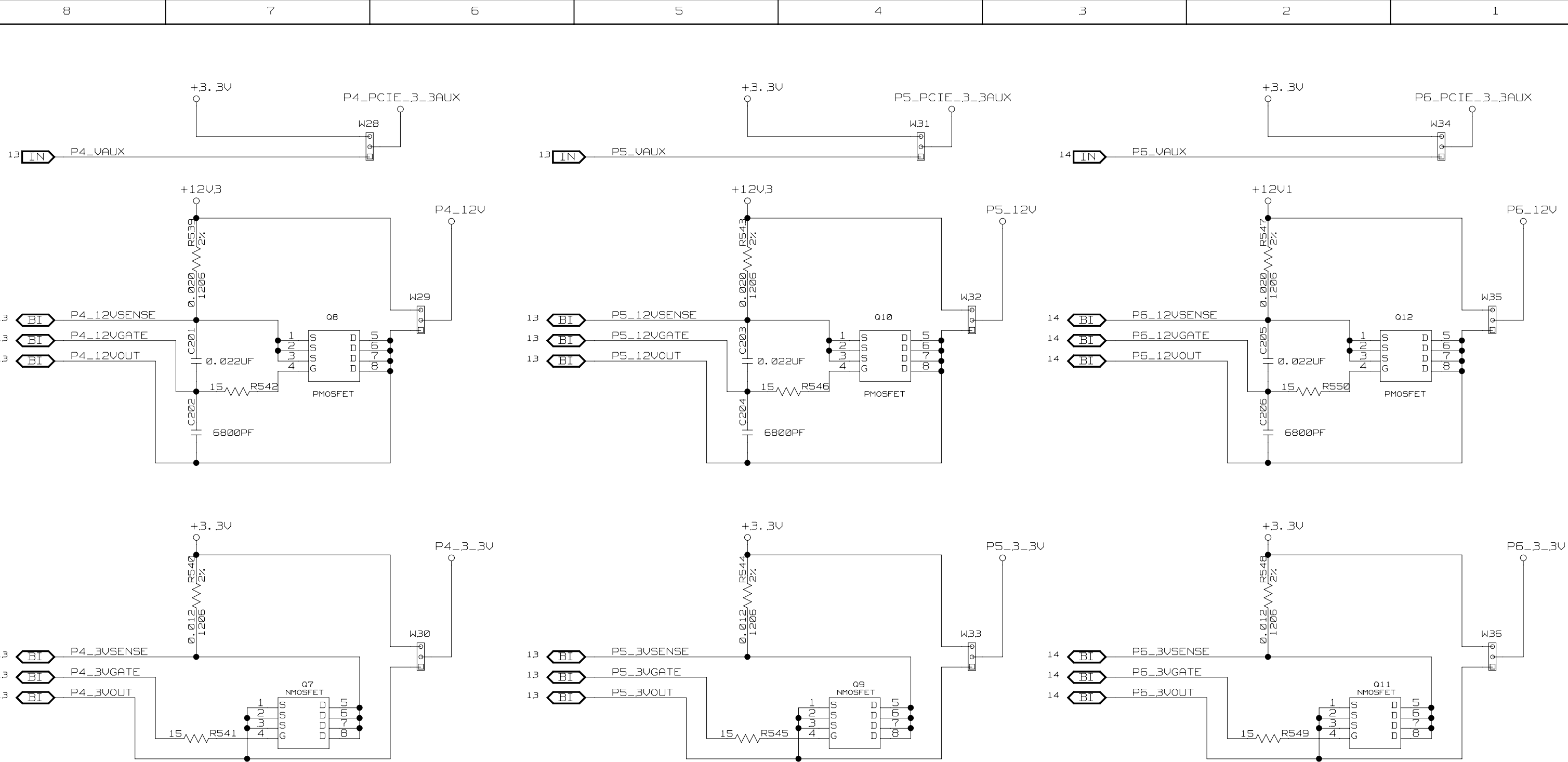


NOTE:
USE PLANE OR WIDE TRACE FOR ALL POWER NETS



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TITLE 89EBPES22H16			
HOT PLUG - MOSFETS PORTS 1-3			
SIZE B	DRAWING NO. SCH-00158	FAB P/N 18-667-000	REV. 1.0
AUTHOR T. Tran		CHECKED BY D. Huang	
Wed Mar 19 15:52:16 2008			SHEET 17 OF 32

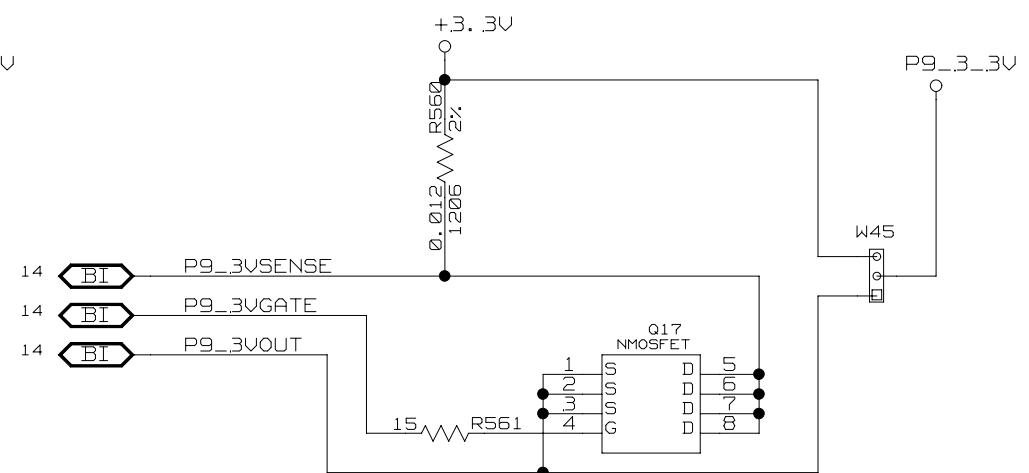


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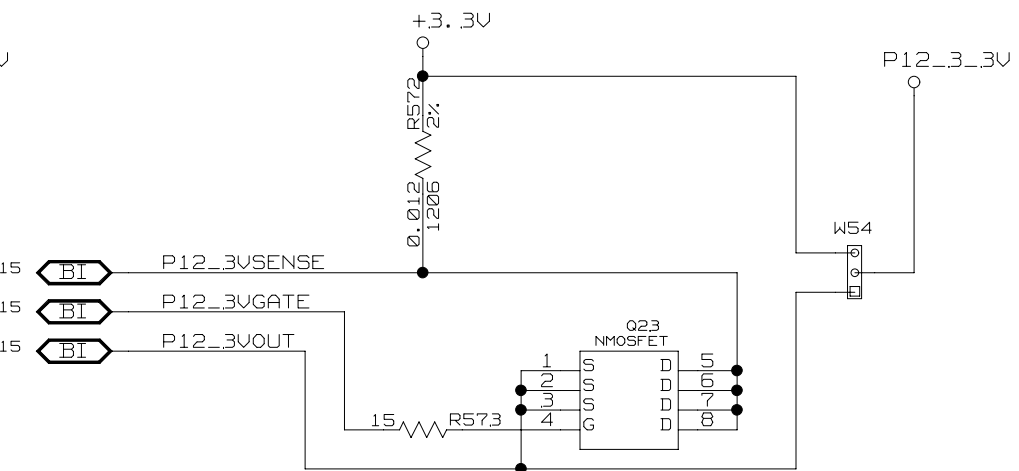
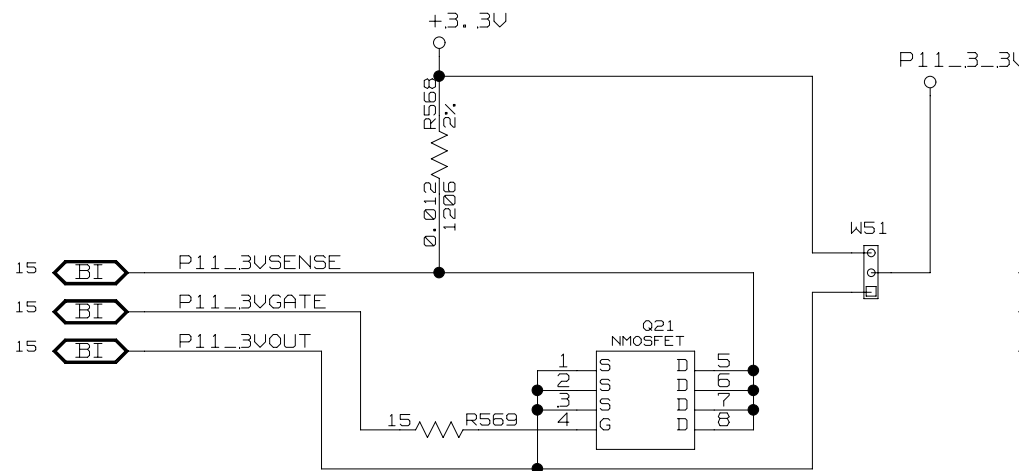
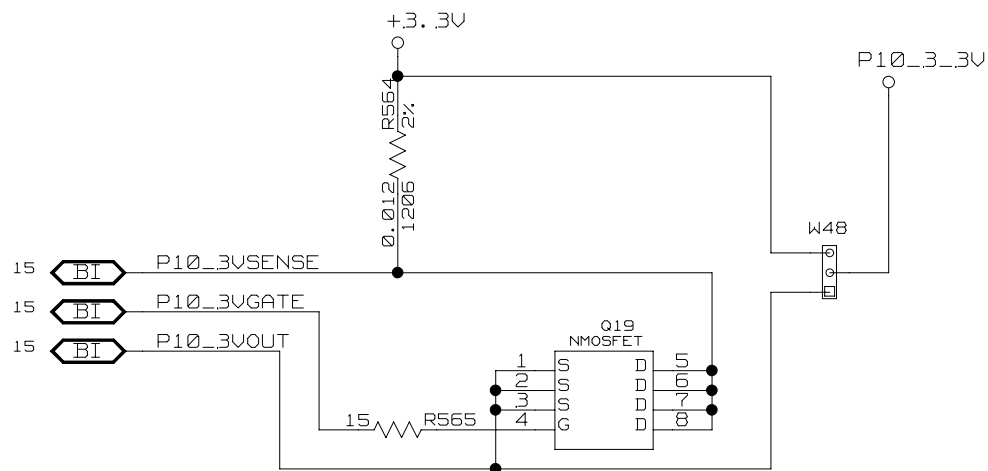
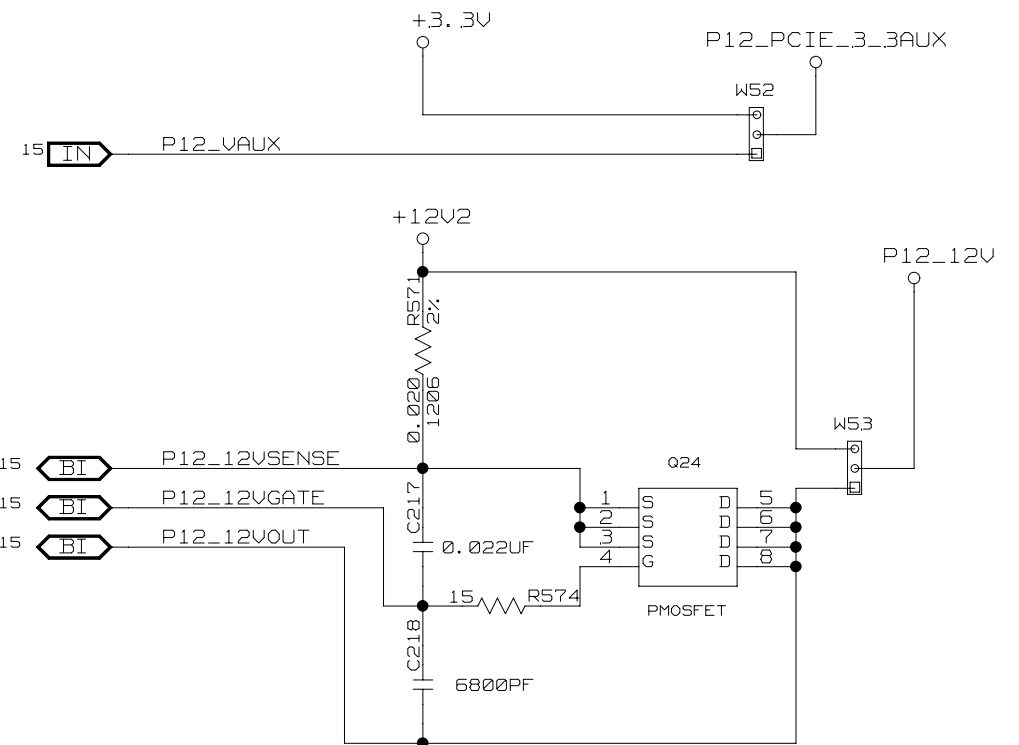
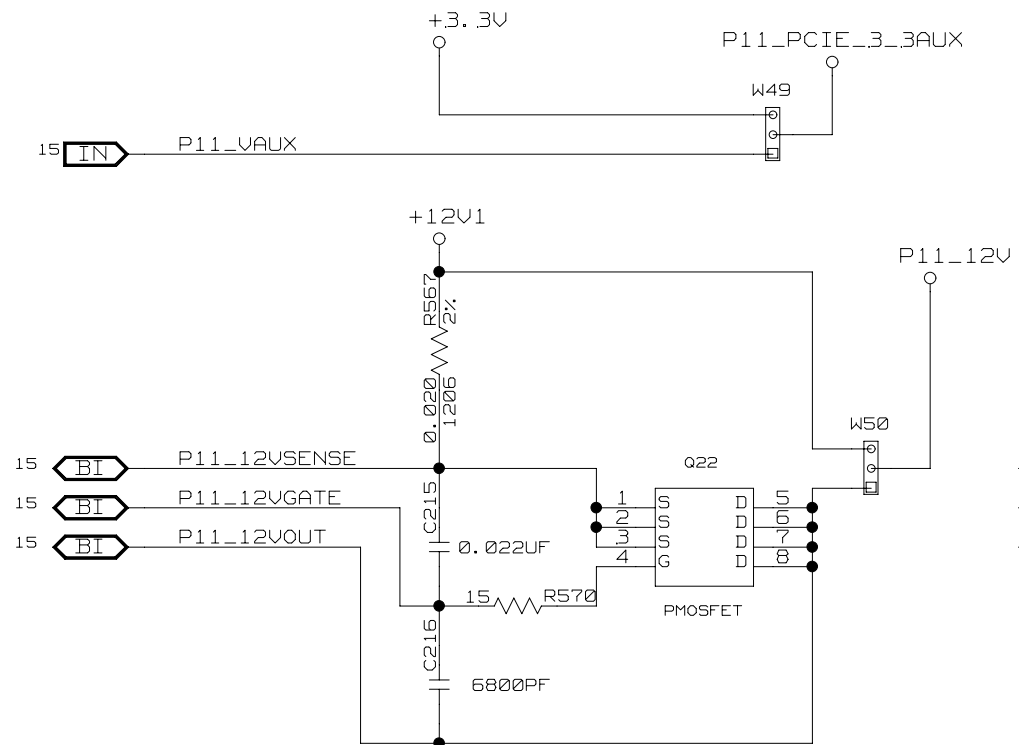
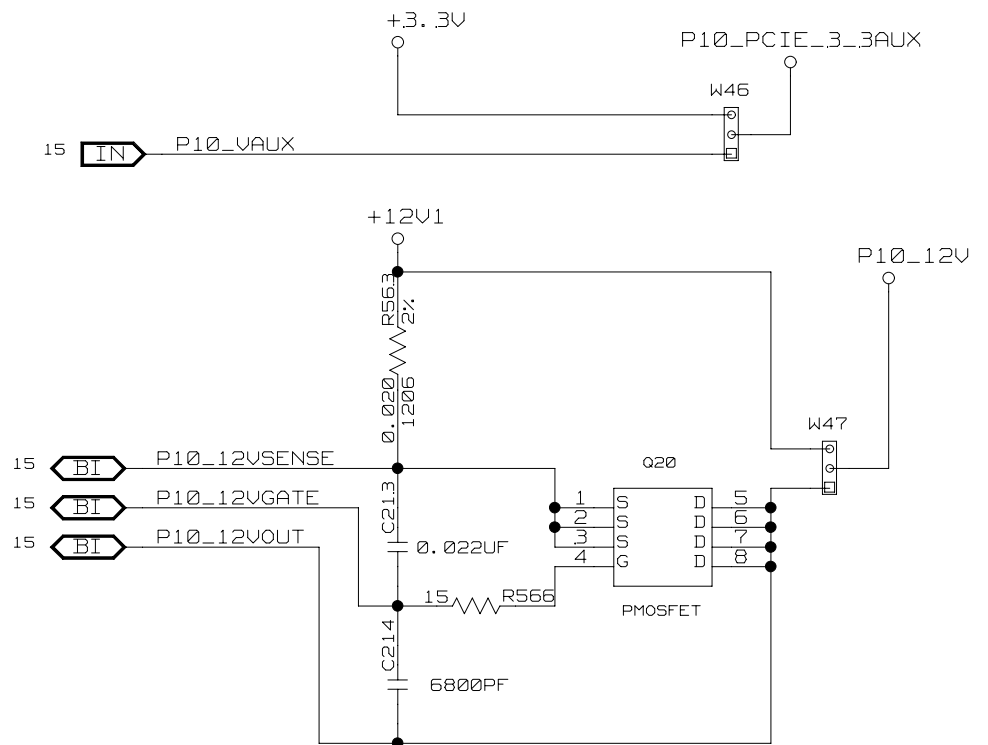


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TITLE 89EBPES22H16			
HOT PLUG - MOSFETS PORTS 4-6			
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HOT PLUG - MOSFETS PORTS 7-9			
SIZE B	DRAWING NO. SCH-00158	FAB P/N 18-667-000	REV. 1.0
AUTHOR T. Tran		CHECKED BY D. Huang	
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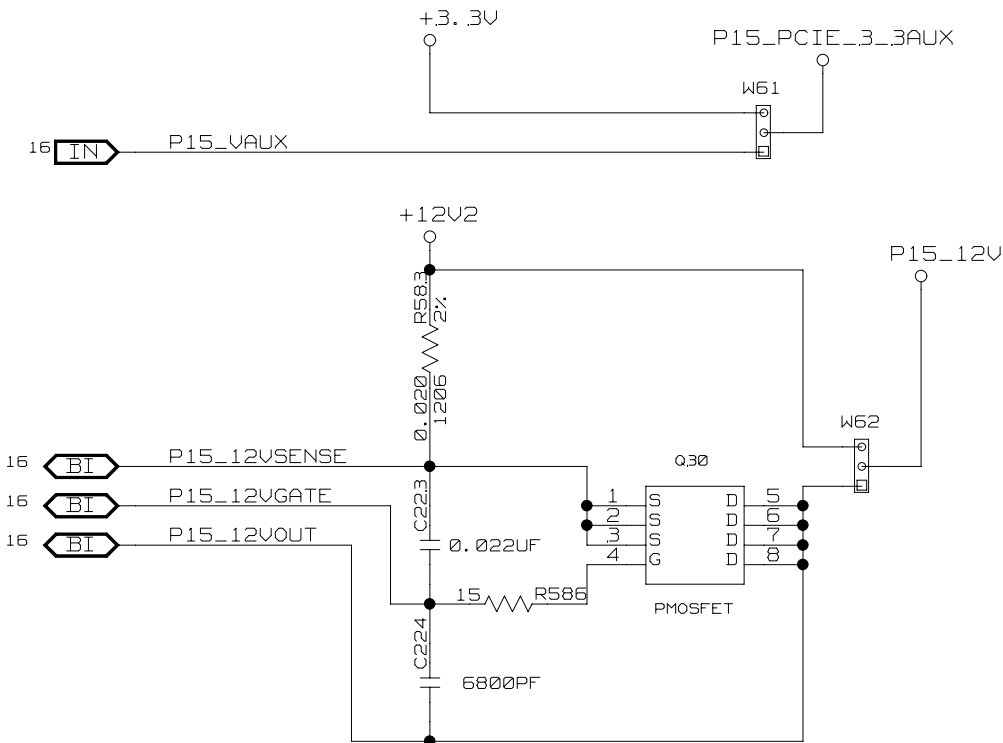
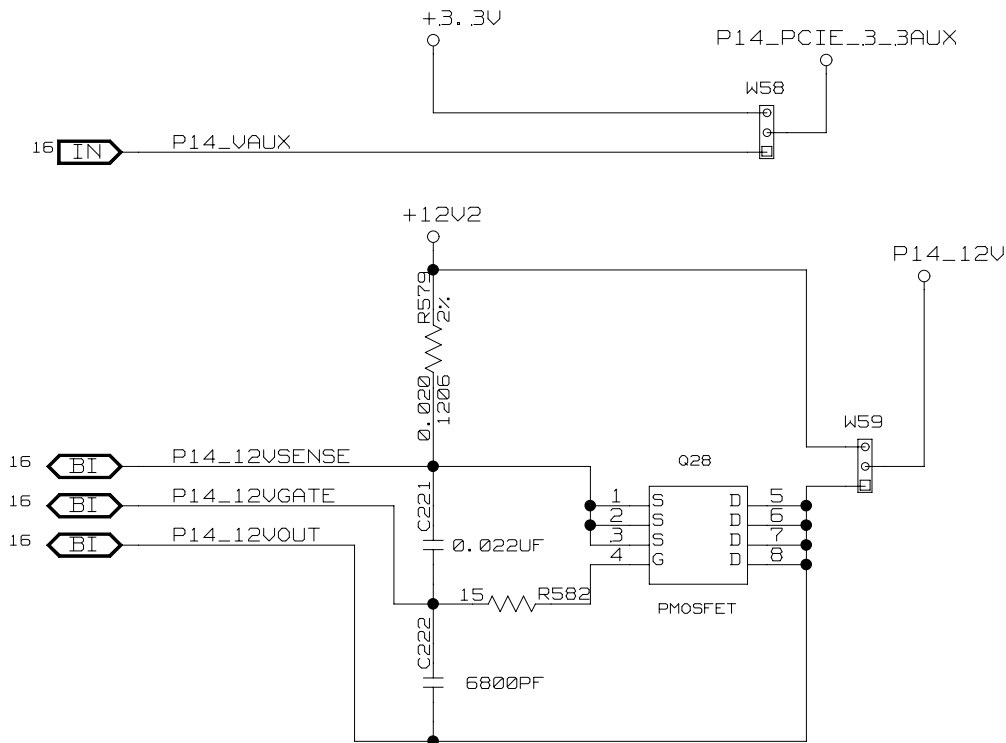
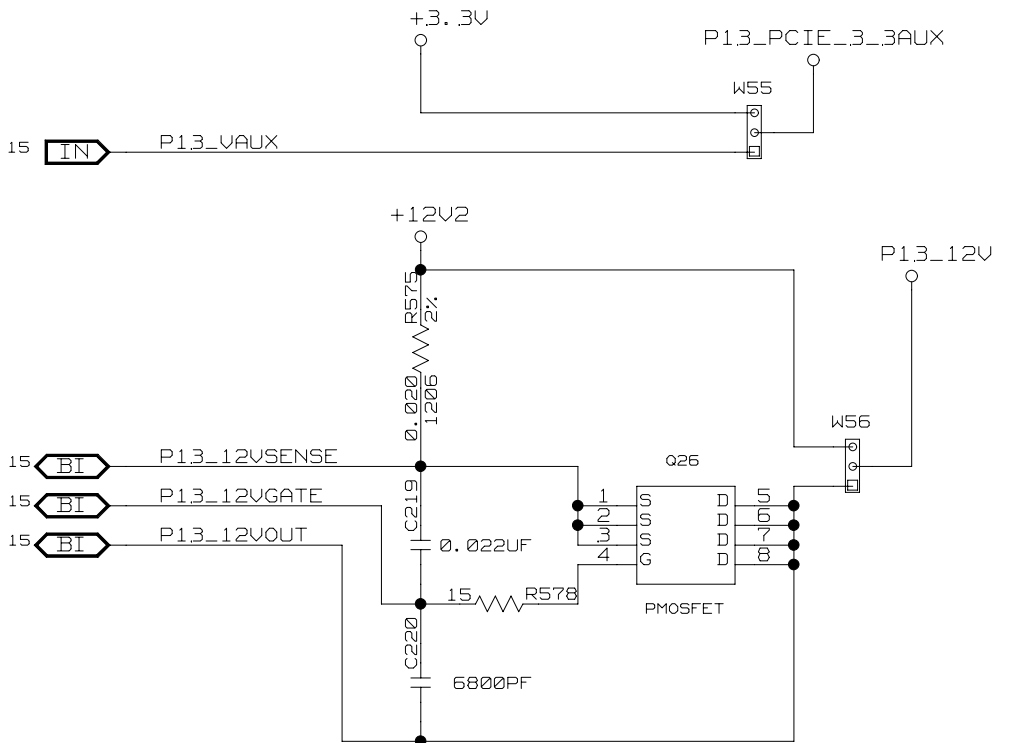


NOTE:
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TITLE 89EBPES22H16			
HOT PLUG - MOSFETS PORTS 10-12			
SIZE B	DRAWING NO. SCH-00158	FAB P/N 18-667-000	REV. 1.0
AUTHOR T. Tran		CHECKED BY D. Huang	
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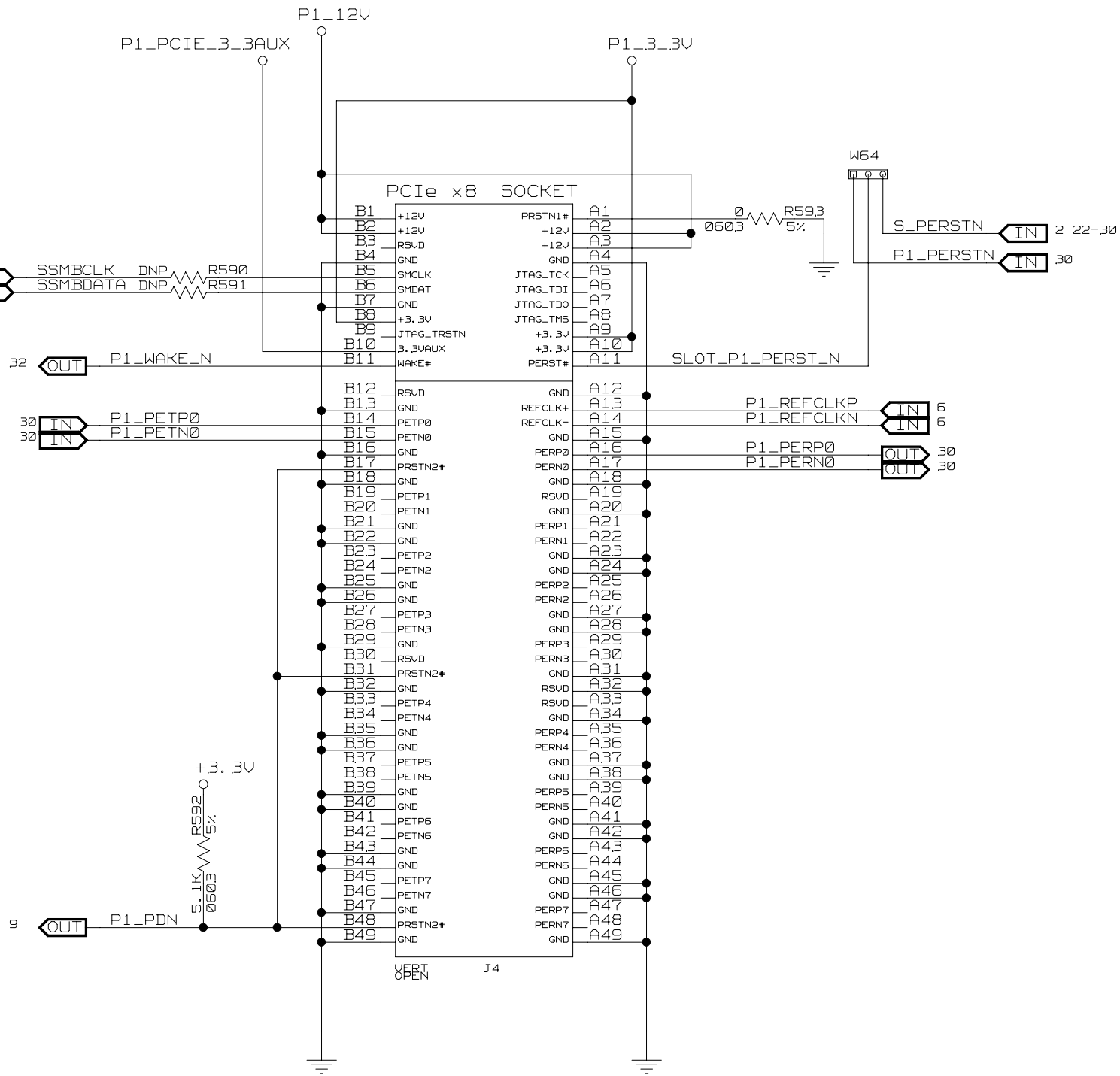
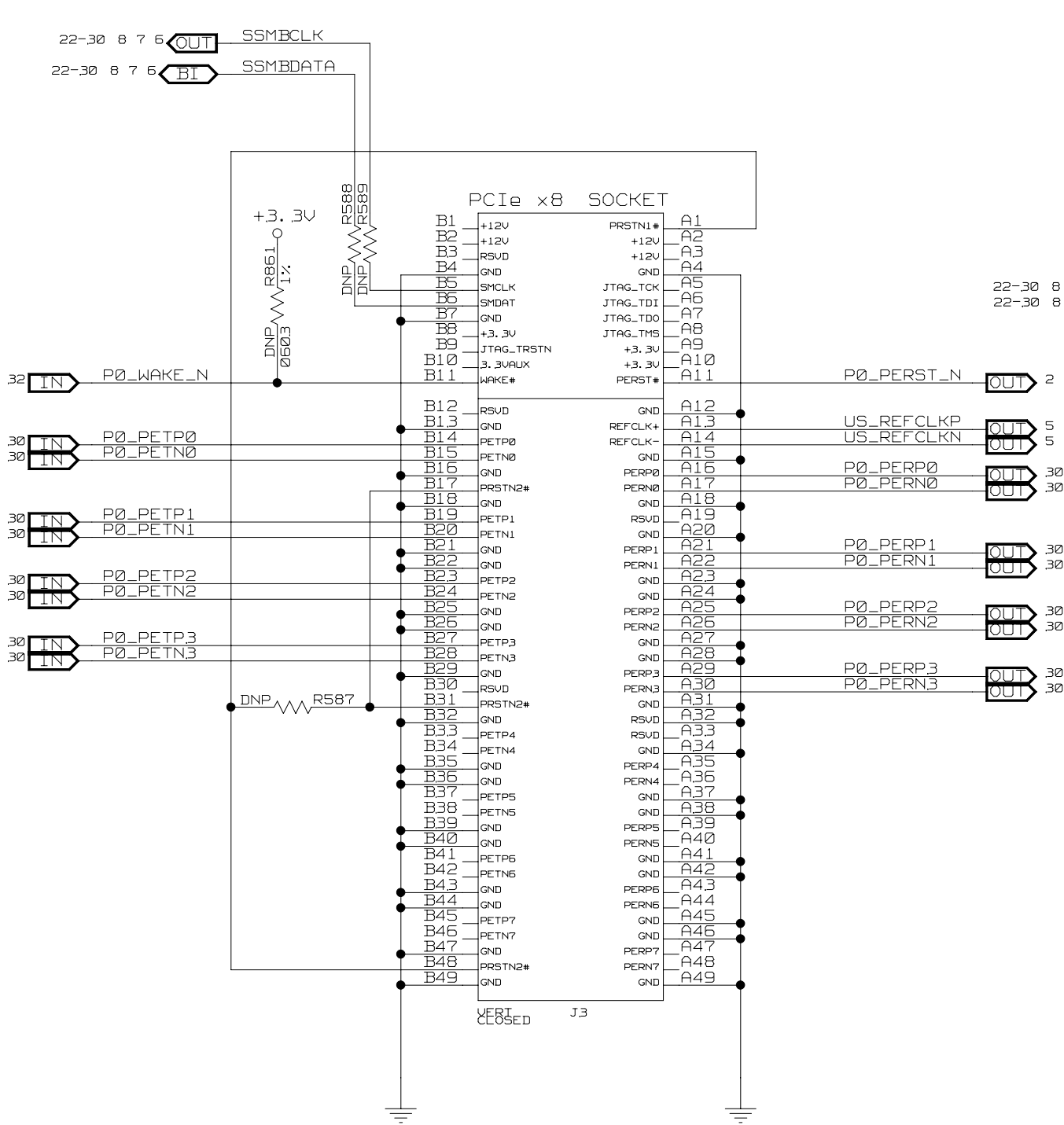


NOTE:
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HOT PLUG - MOSFETS PORTS 13-15			
SIZE B	DRAWING NO. SCH-00158	FAB P/N 18-667-000	REV. 1.0
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PORT 0: UPSTREAM PORT



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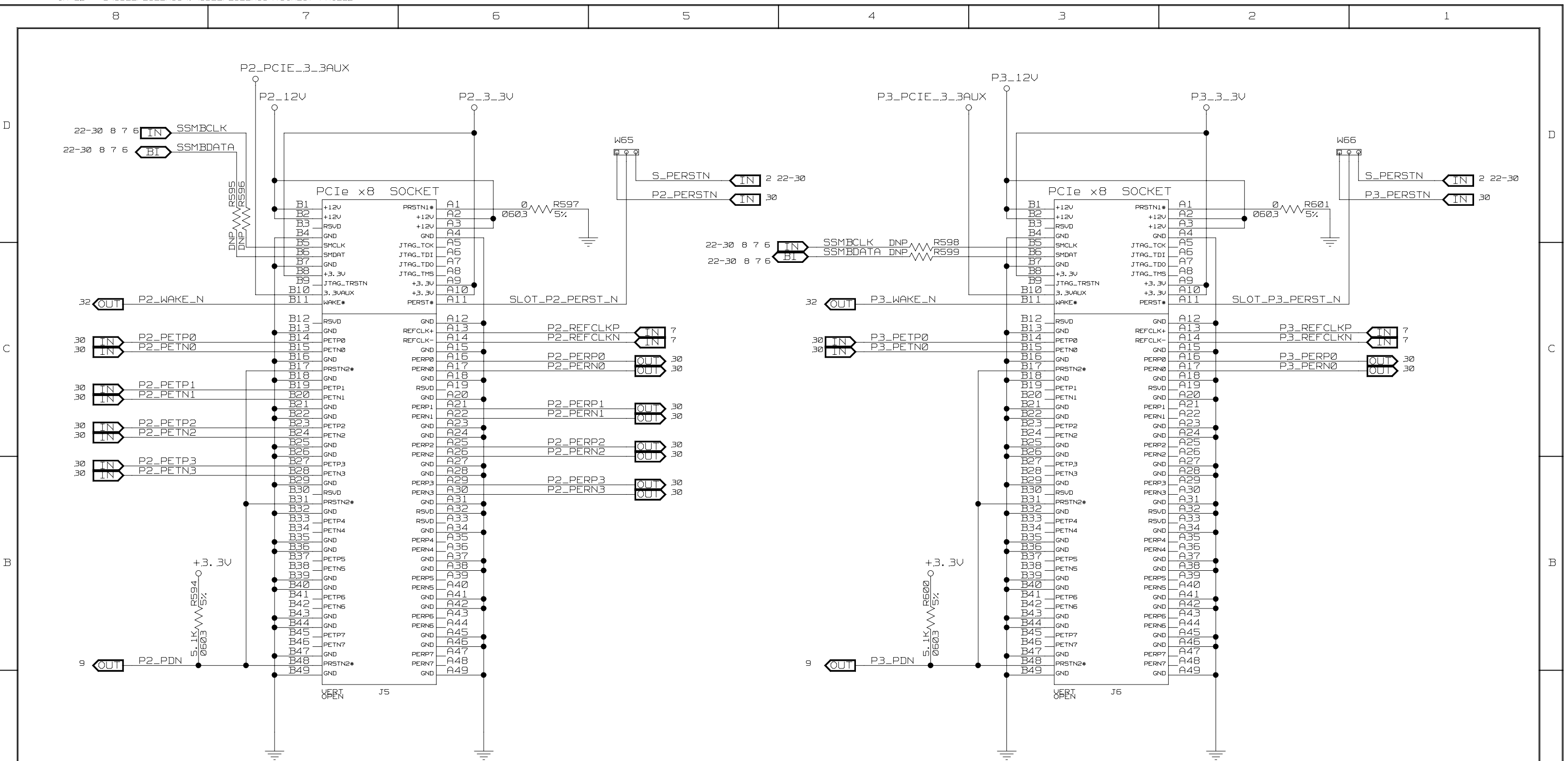
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AUTHOR T. Tran		CHECKED BY D. Huang	
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TITLE 89EBPES22H16

PCI EXPRESS CONN PORT 2/3

SIZE B	DRAWING NO. SCH-00158	FAB P/N 18-667-000	REV. 1.0
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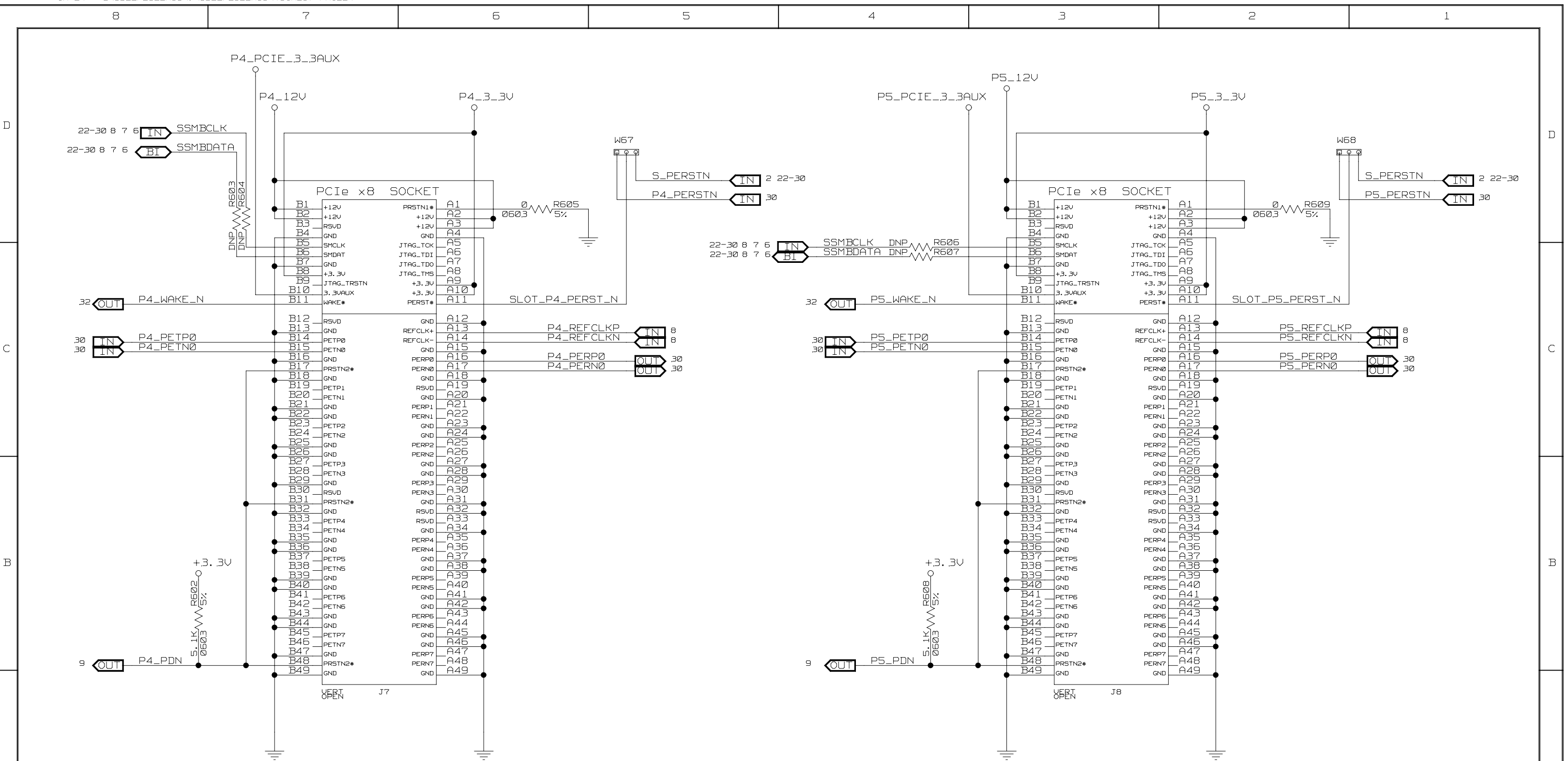
SHEET 23 OF 32

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TITLE 89EBPES22H16

PCI EXPRESS CONN PORT 4/5

SIZE B	DRAWING NO. SCH-00158	FAB P/N 18-667-000	REV. 1.0
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Wed Mar 19 15:52:19 2008

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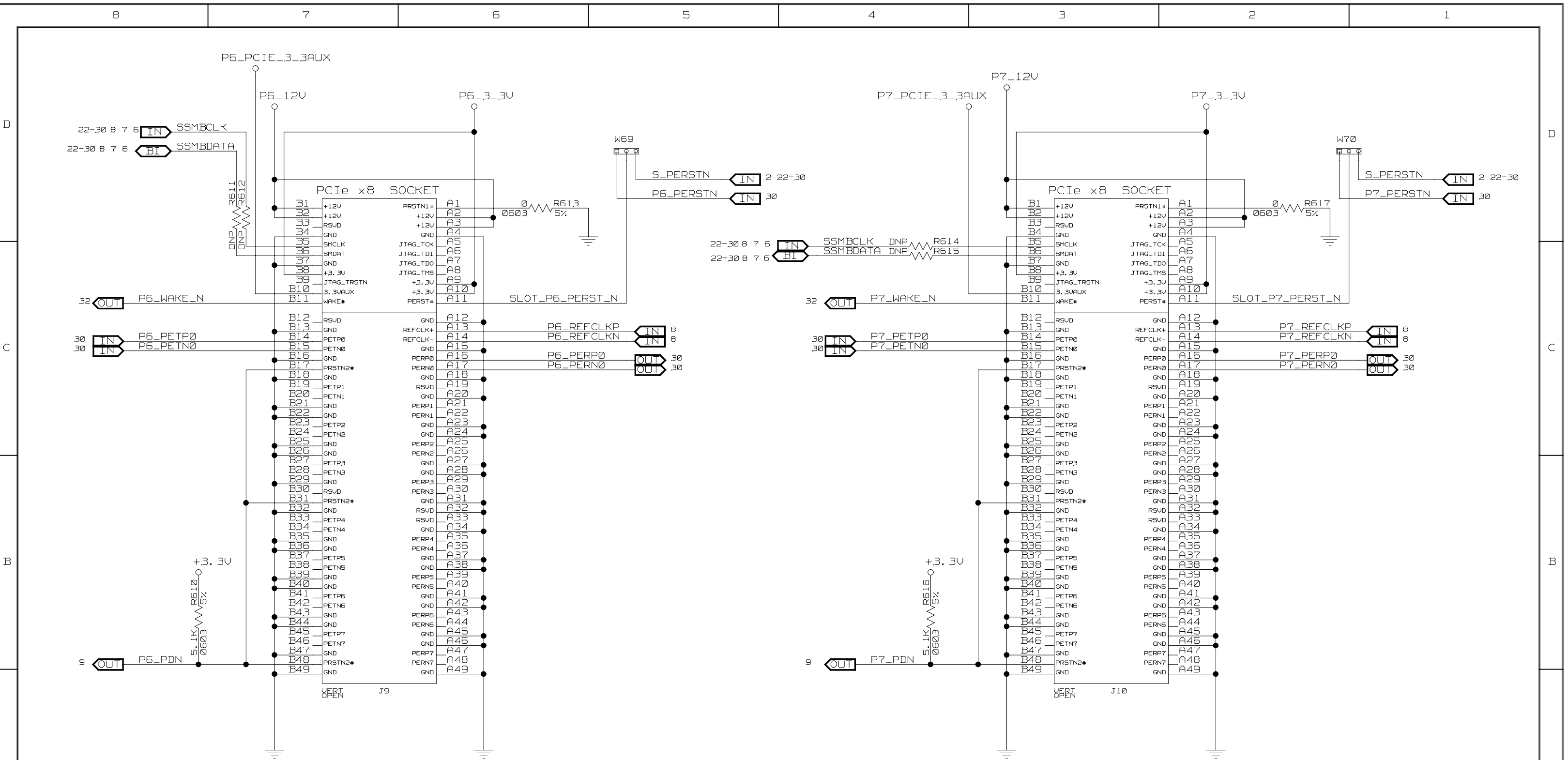
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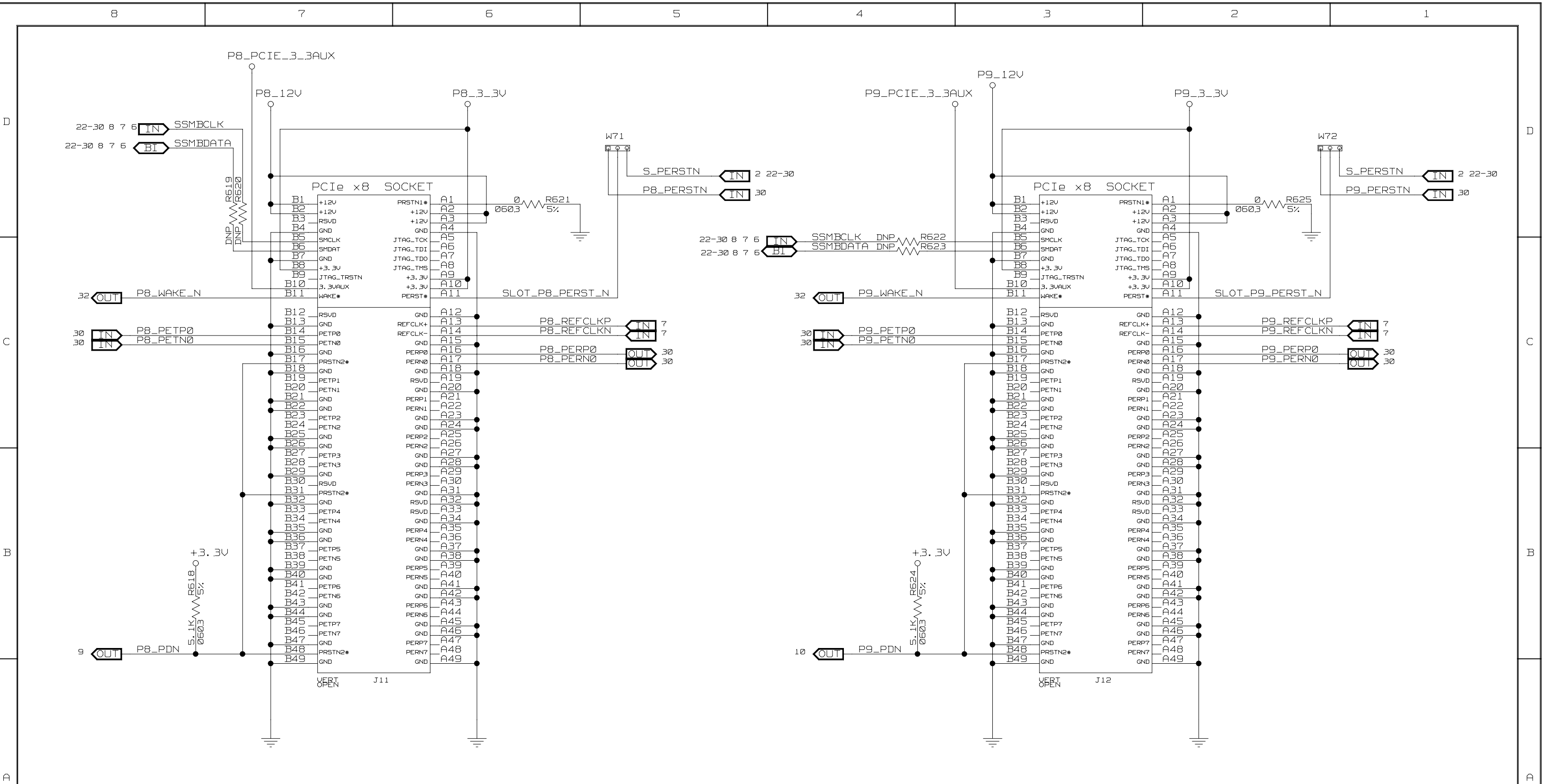
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TITLE 89EBPES22H16			
PCI EXPRESS CONN PORT 6/7			
SIZE B	DRAWING NO. SCH-00158	FAB P/N 18-667-000	REV. 1.0
AUTHOR T. Tran		CHECKED BY D. Huang	
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TITLE 89EBPES22H16

PCI EXPRESS CONN PORT 8/9

SIZE B	DRAWING NO. SCH-00158	FAB P/N 18-667-000	REV. 1.0
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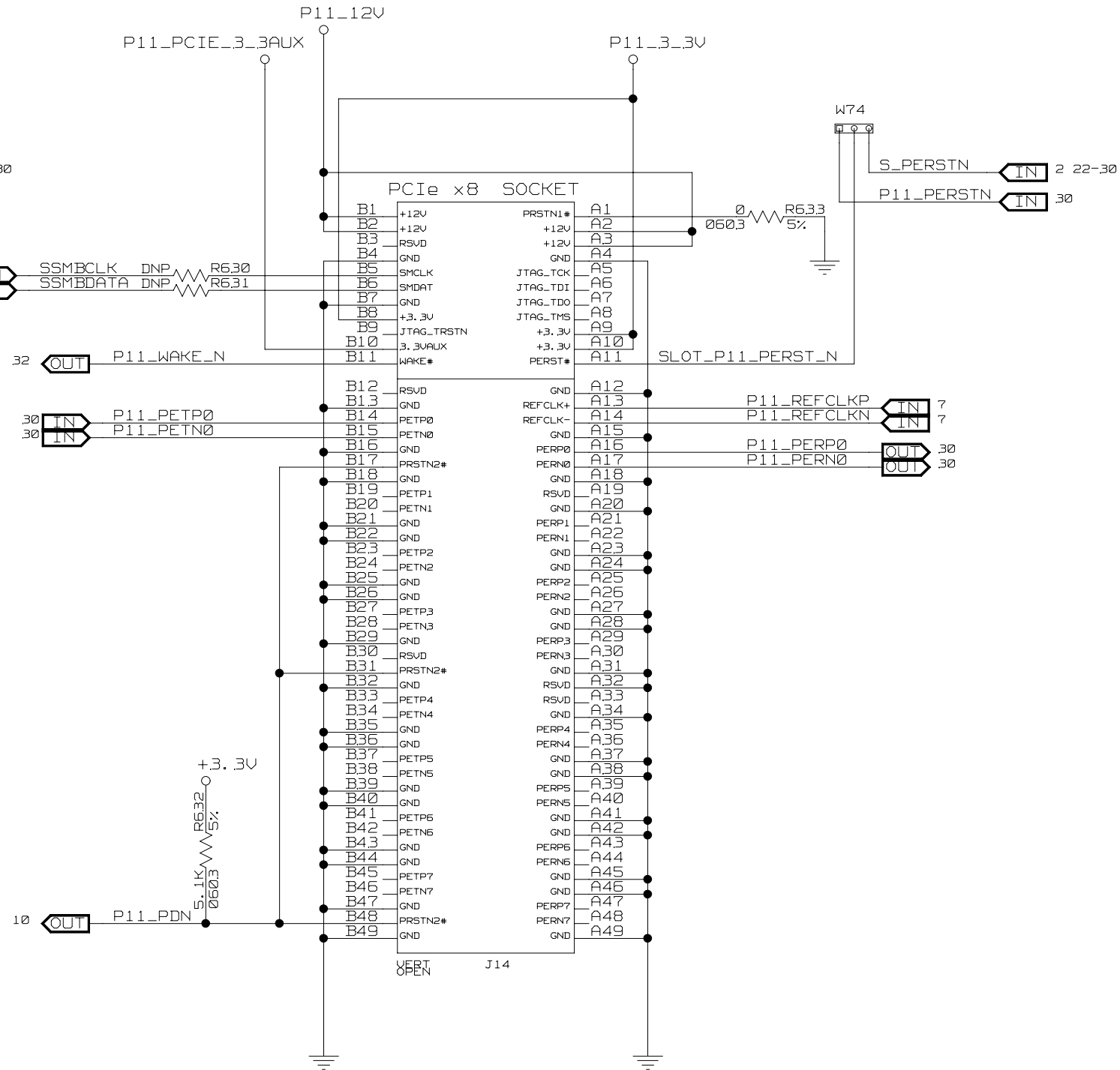
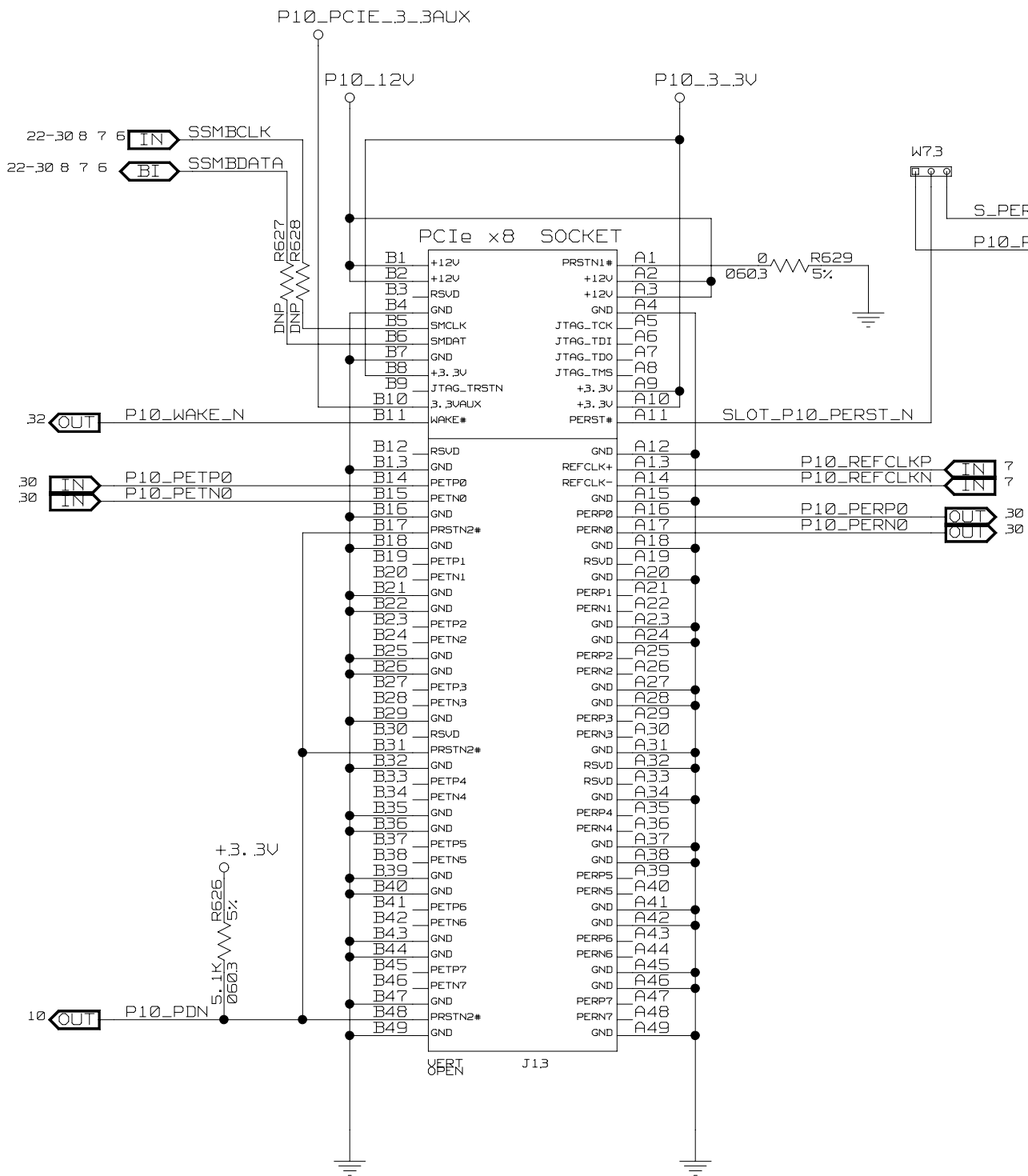
Wed Mar 19 15:52:19 2008	SHEET 26 OF 32
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TITLE 89EBPES22H16			
PCI EXPRESS CONN PORT 10/11			
SIZE B	DRAWING NO. SCH-00158	FAB P/N 18-667-000	REV. 1.0
AUTHOR T. Tran		CHECKED BY D. Huang	
Wed Mar 19 15:52:20 2008			SHEET 27 OF 32

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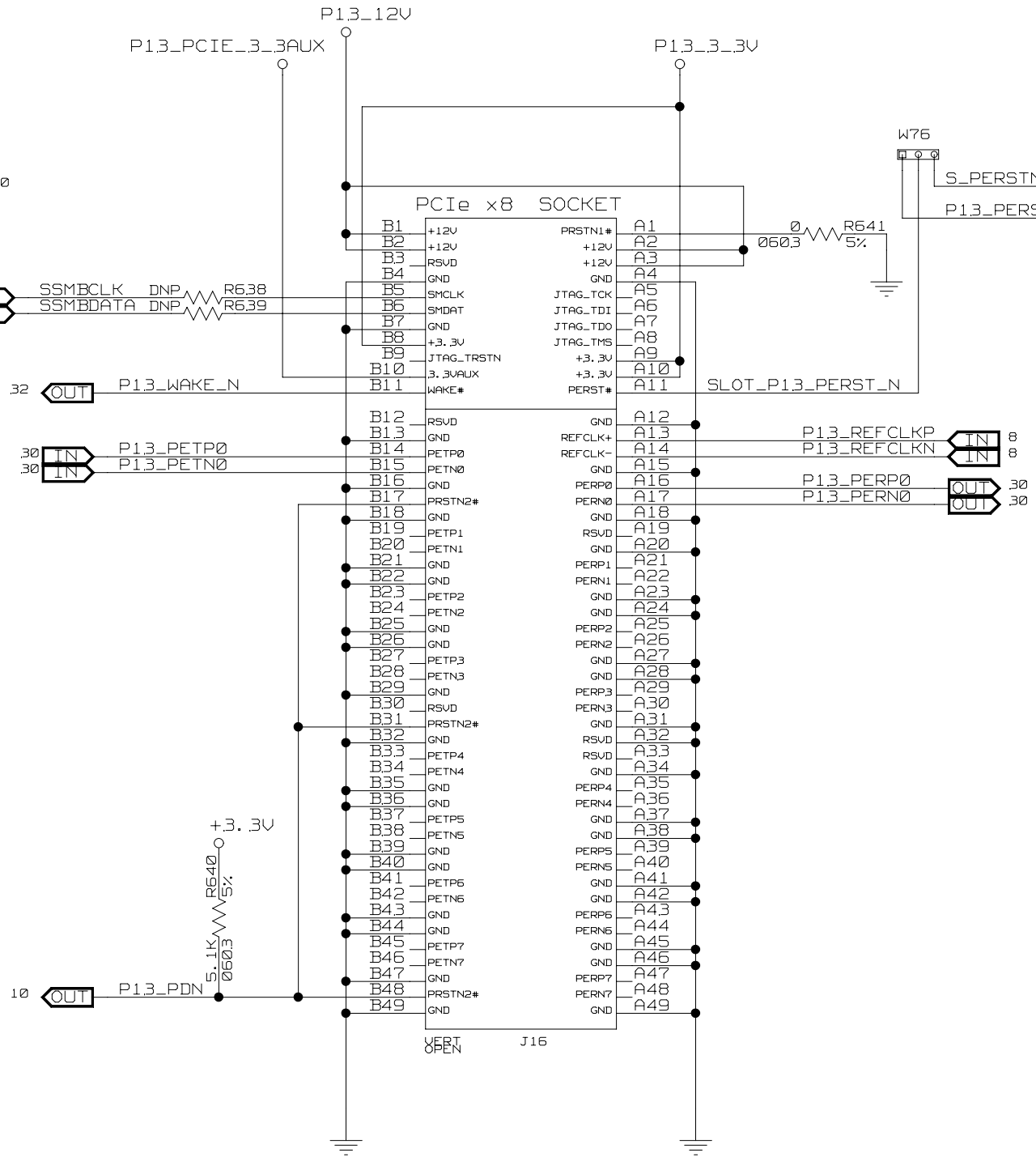
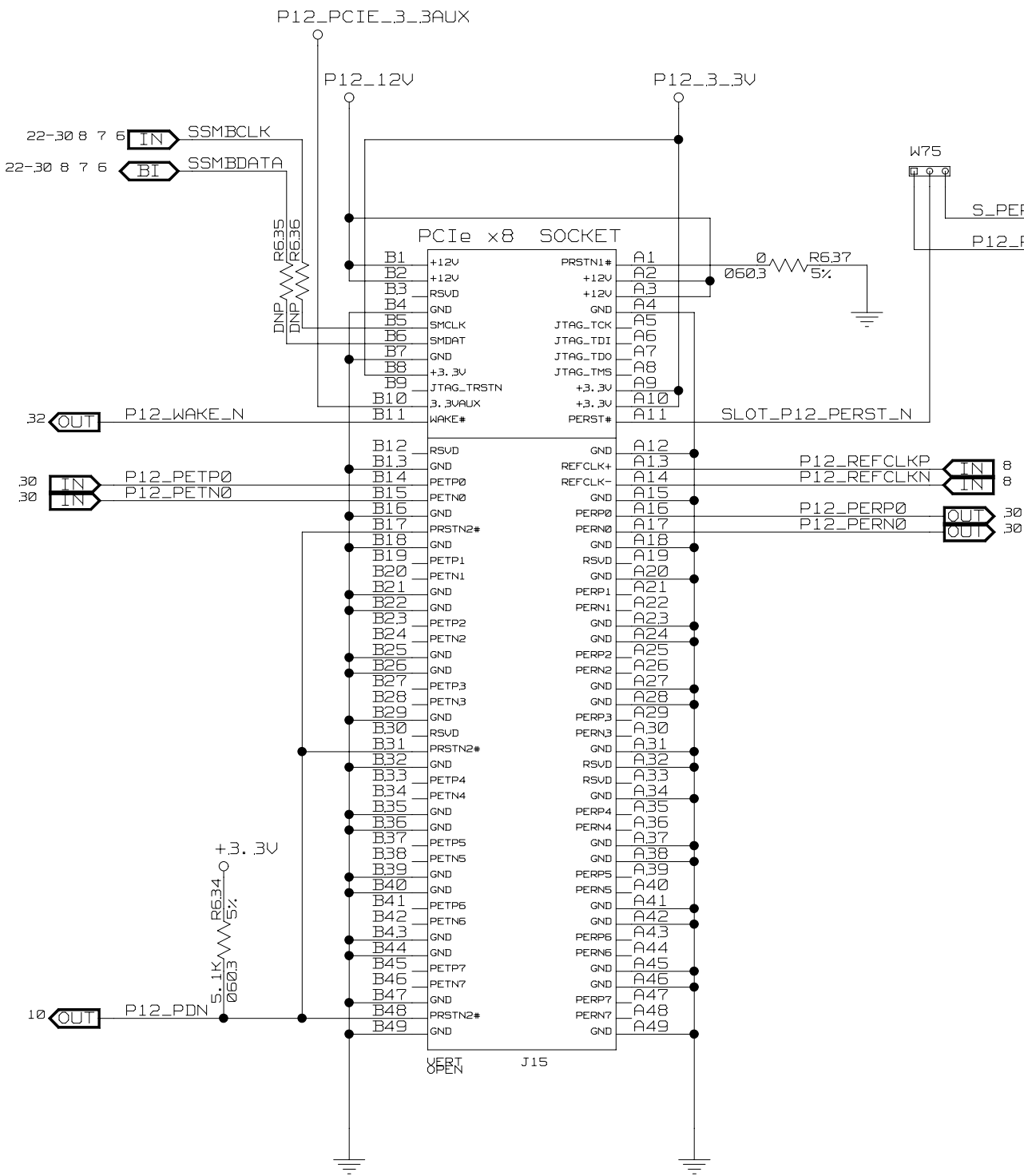
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PCI EXPRESS CONN PORT 12/13			
SIZE B	DRAWING NO. SCH-00158	FAB P/N 18-667-000	REV. 1.0
AUTHOR T. Tran		CHECKED BY D. Huang	
Wed Mar 19 15:52:20 2008			SHEET 28 OF 32

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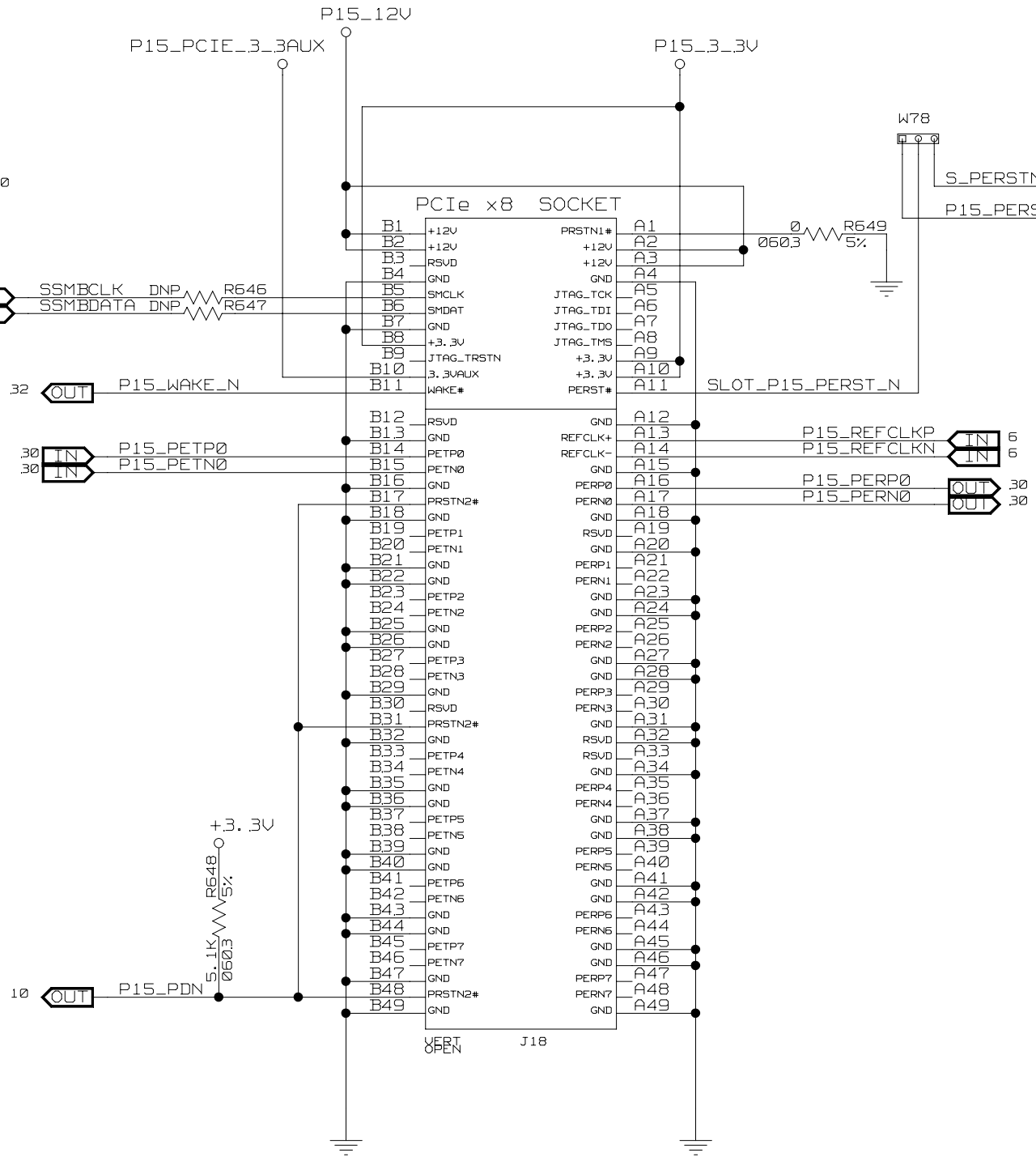
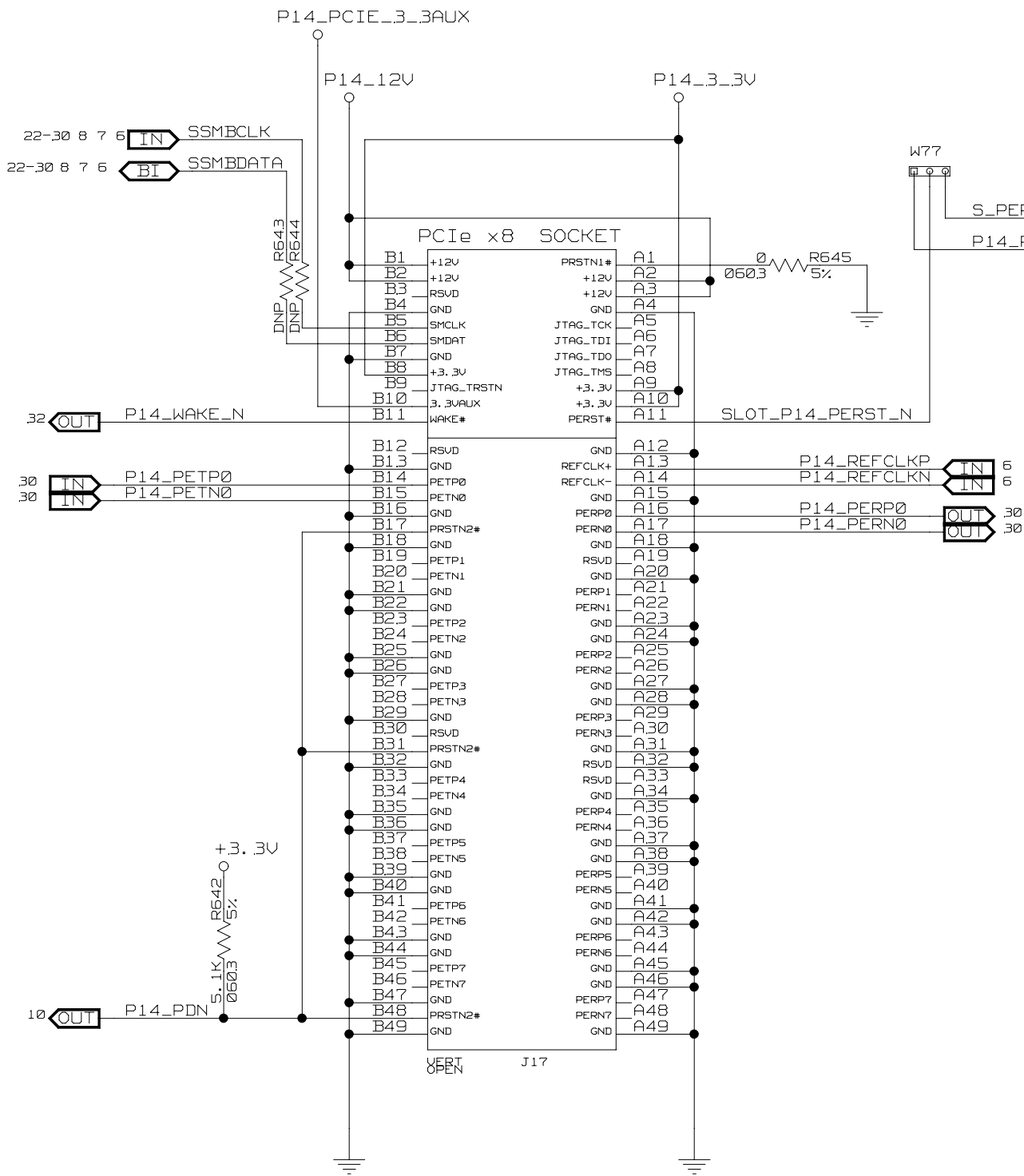
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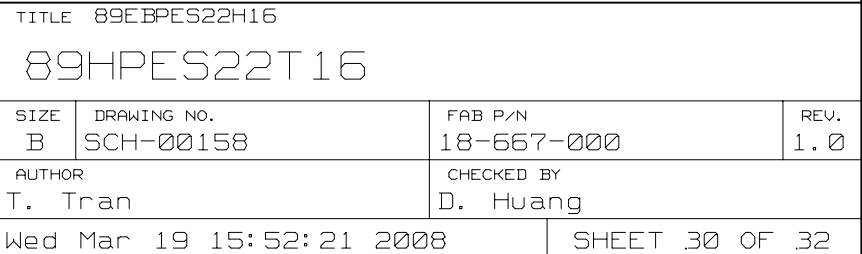
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PCI EXPRESS CONN PORT 14/15			
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Wed Mar 19 15:52:20 2008			SHEET 29 OF 32



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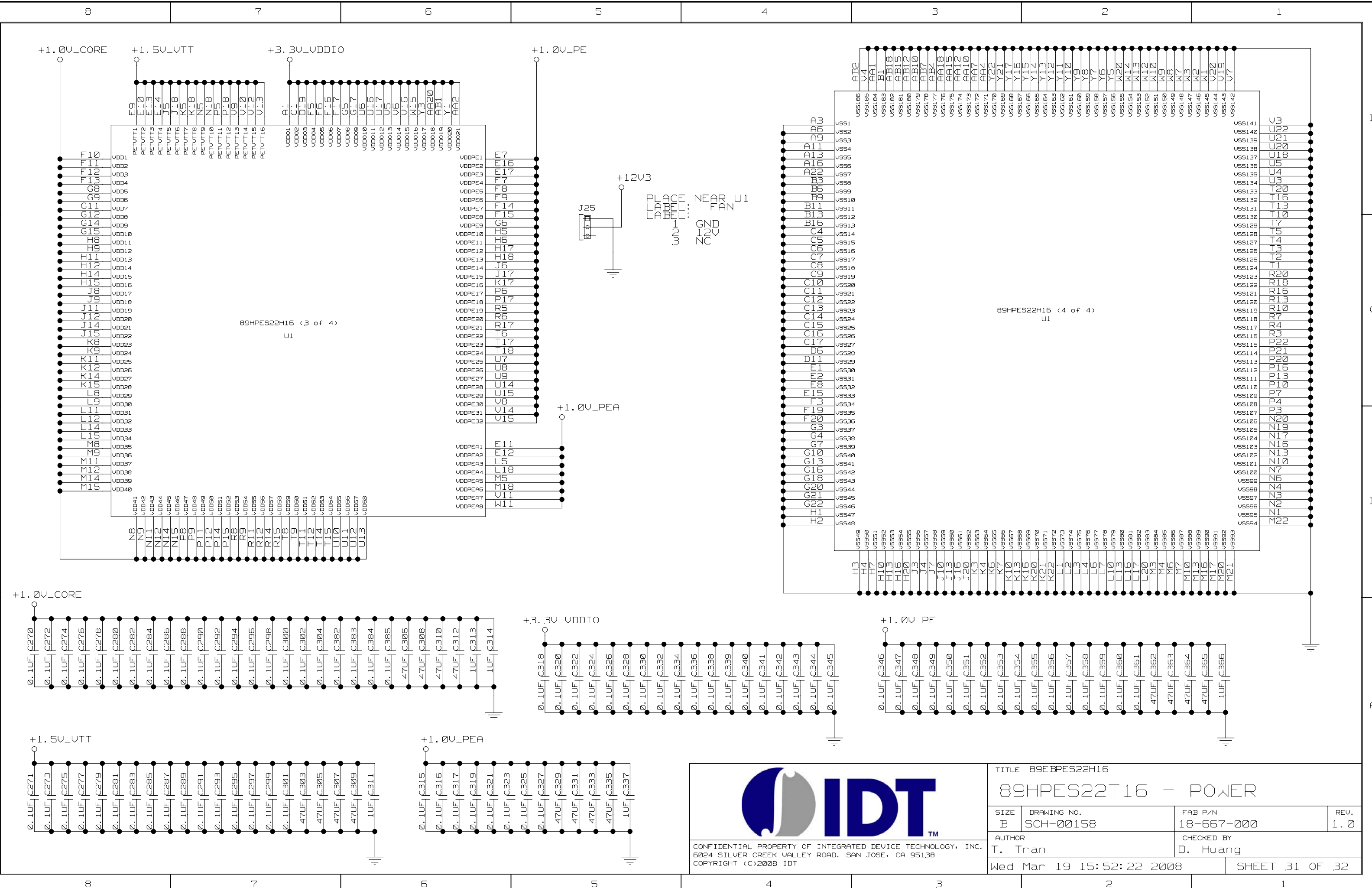
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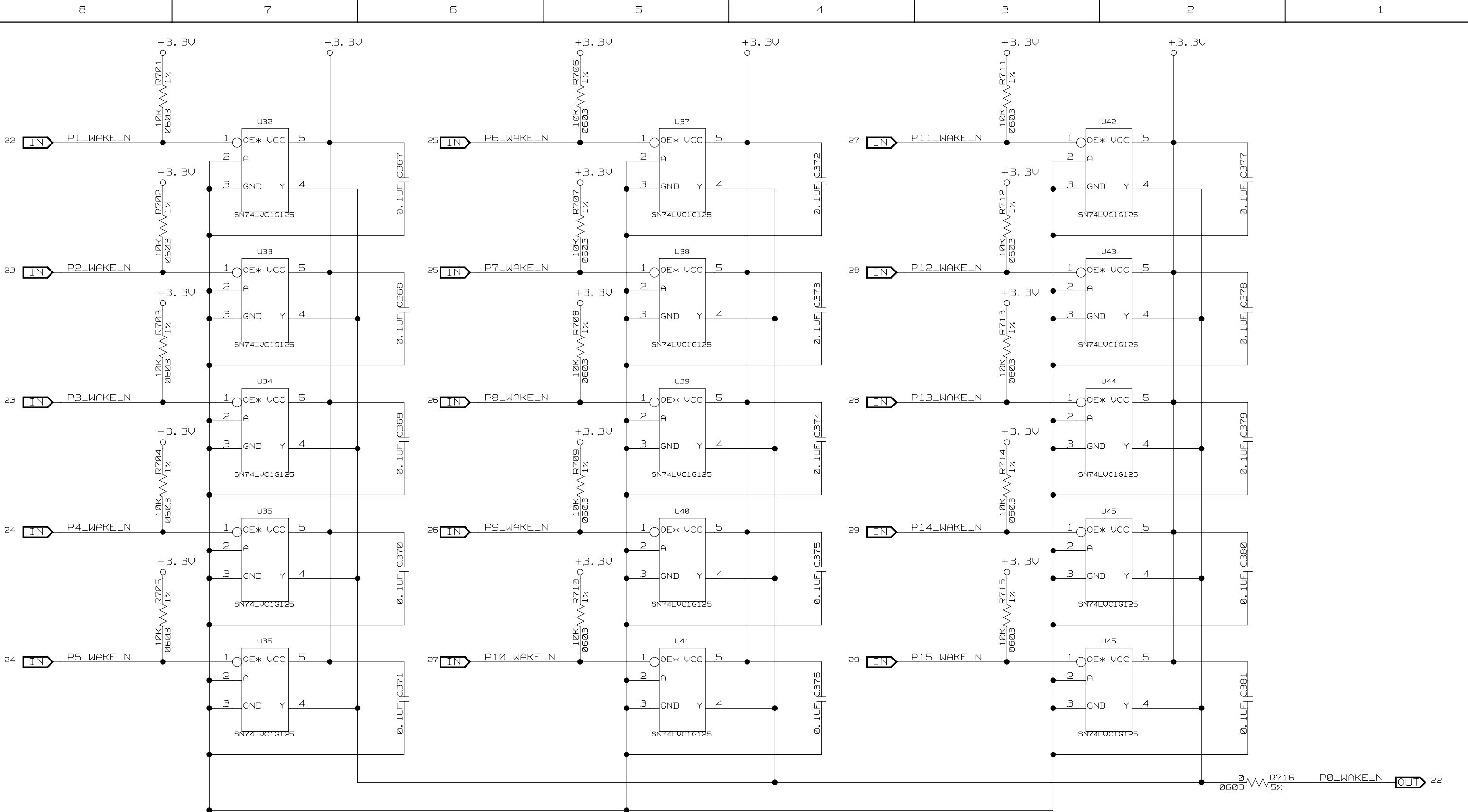
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TITLE 89EBPES22H16 WAKE CONTROL			
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