

S1012E-02-ND  
JMP1

2

1

SHCT\_IN\_LATCH

SHCT\_AMS\_IMD

Header 2

S1012E-02-ND  
JMP2

2

1

SHCT\_AMS\_IMD

SHCT\_IMD\_BSPD

Header 2

S1012E-02-ND  
JMP3

2

1

SHCT\_IMD\_BSPD

SHCT\_OUT\_LATCH

Header 2

S9337-NDS9337-NDS9337-ND  
Jumper1 Jumper2 Jumper3

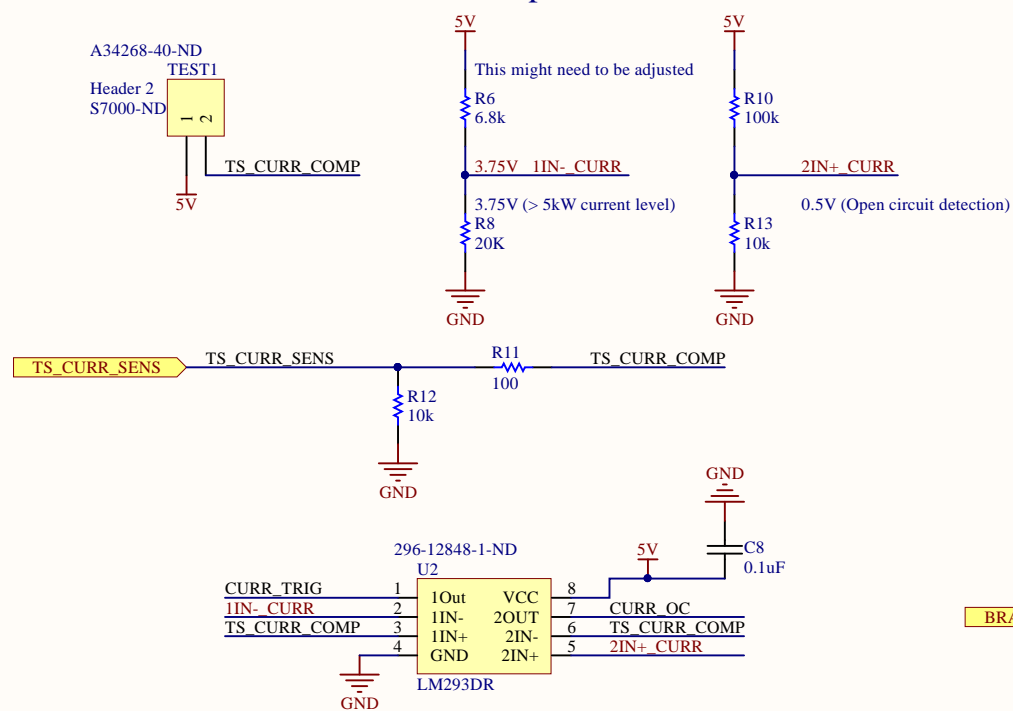
Jumper Jumper Jumper







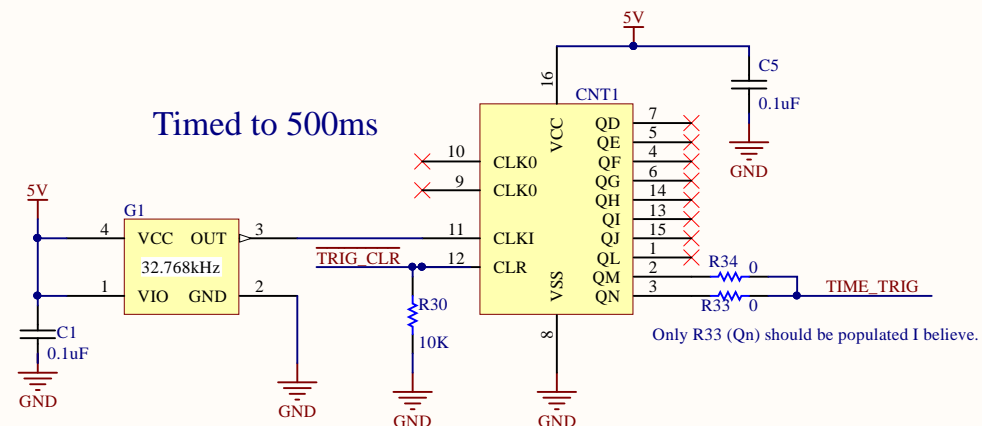
## Current Sensor Comparator



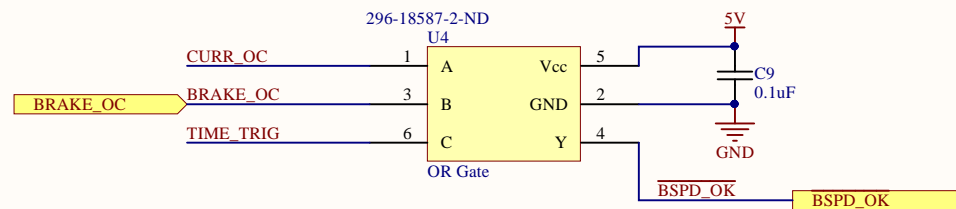
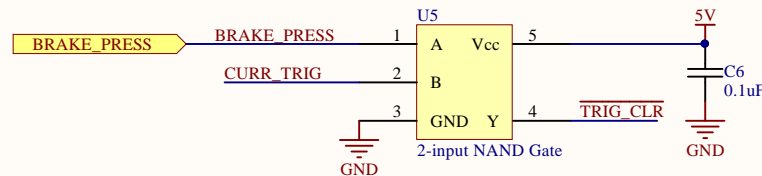
CURR\_TRIG:  
5V if TS\_CURR\_COMP > IIN\_CURR (3.75V)  
0V if TS\_CURR\_COMP < IIN\_CURR (3.75V)

CURR\_OC:  
0V if TS\_CURR\_COMP > 2IN+\_CURR (0.5V)  
5V if TS\_CURR\_COMP < 2IN+\_CURR(0.5V)

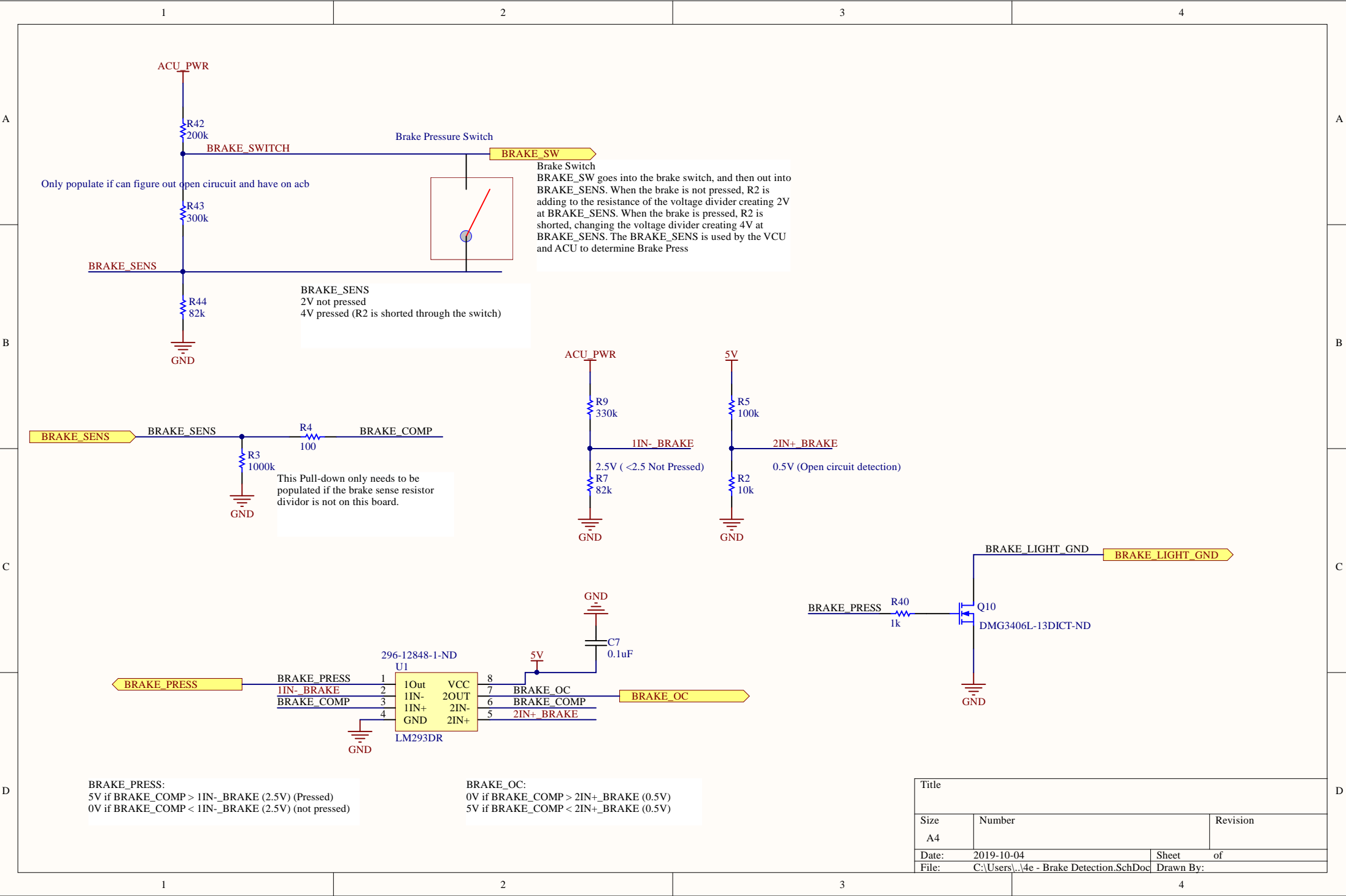
Timed to 500ms



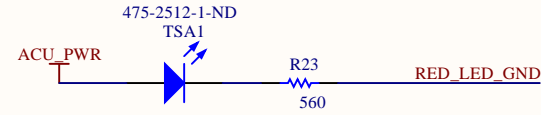
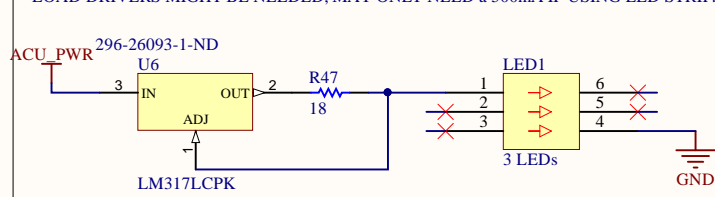
NAND to reset counter



Title		
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Date:	2019-10-04	Sheet of
File:	C:\Users\A4d - BSPD Detection Timer.SchDownloaded By:	

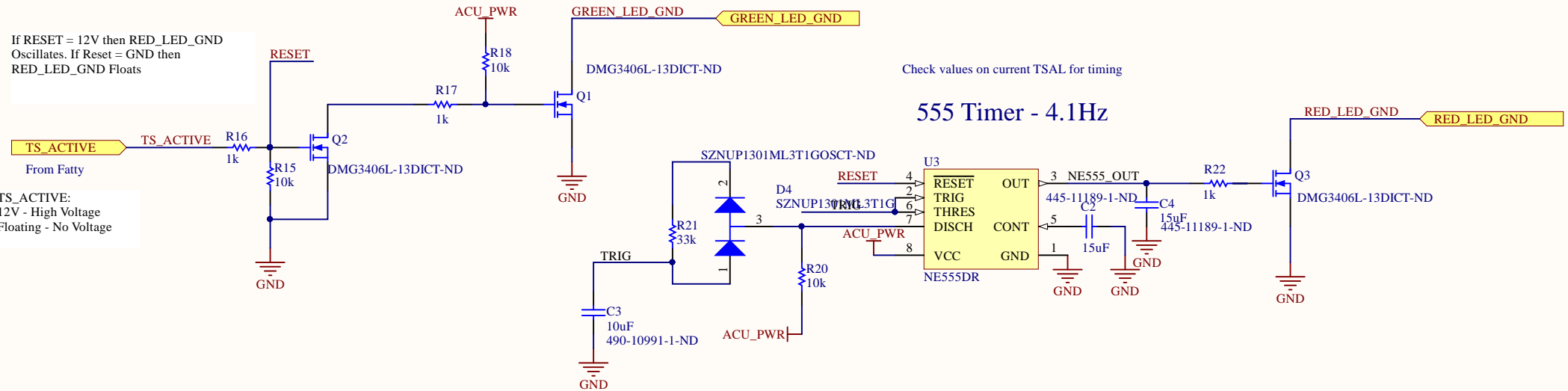


LOAD DRIVERS MIGHT BE NEEDED, MAY ONLY NEED a 500mA IF USING LED STRIPS DEPENDING ON TESTS



If RESET = 12V then RED\_LED\_GND  
Oscillates. If Reset = GND then  
RED\_LED\_GND Floats

TS\_ACTIVE:  
12V - High Voltage  
Floating - No Voltage



The Addition of these resistors controls the Frequency. The Division controls the Duty cycle. Increasing the resistor on top decreases the duty cycle. Try to keep the addition constant. **NEEDS TO BE TESTED.** (I just used the ESD Diodes but might need to find other ones) Cap at output might not be

Title			
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