


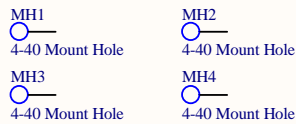
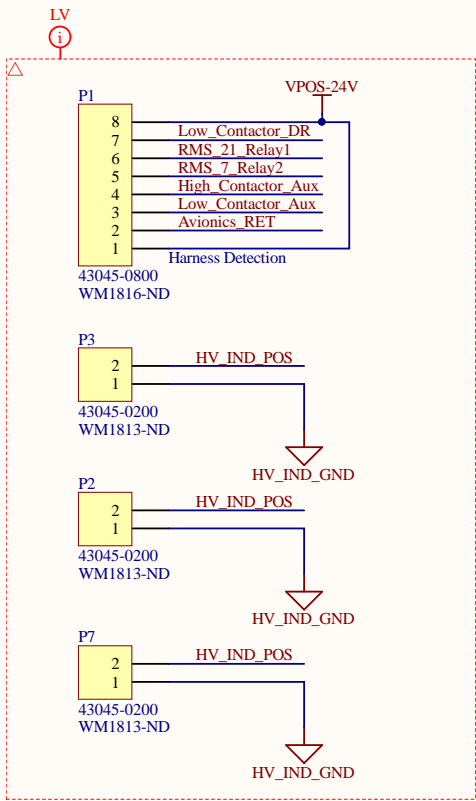
PRECHARGE

POD 5

REV 1

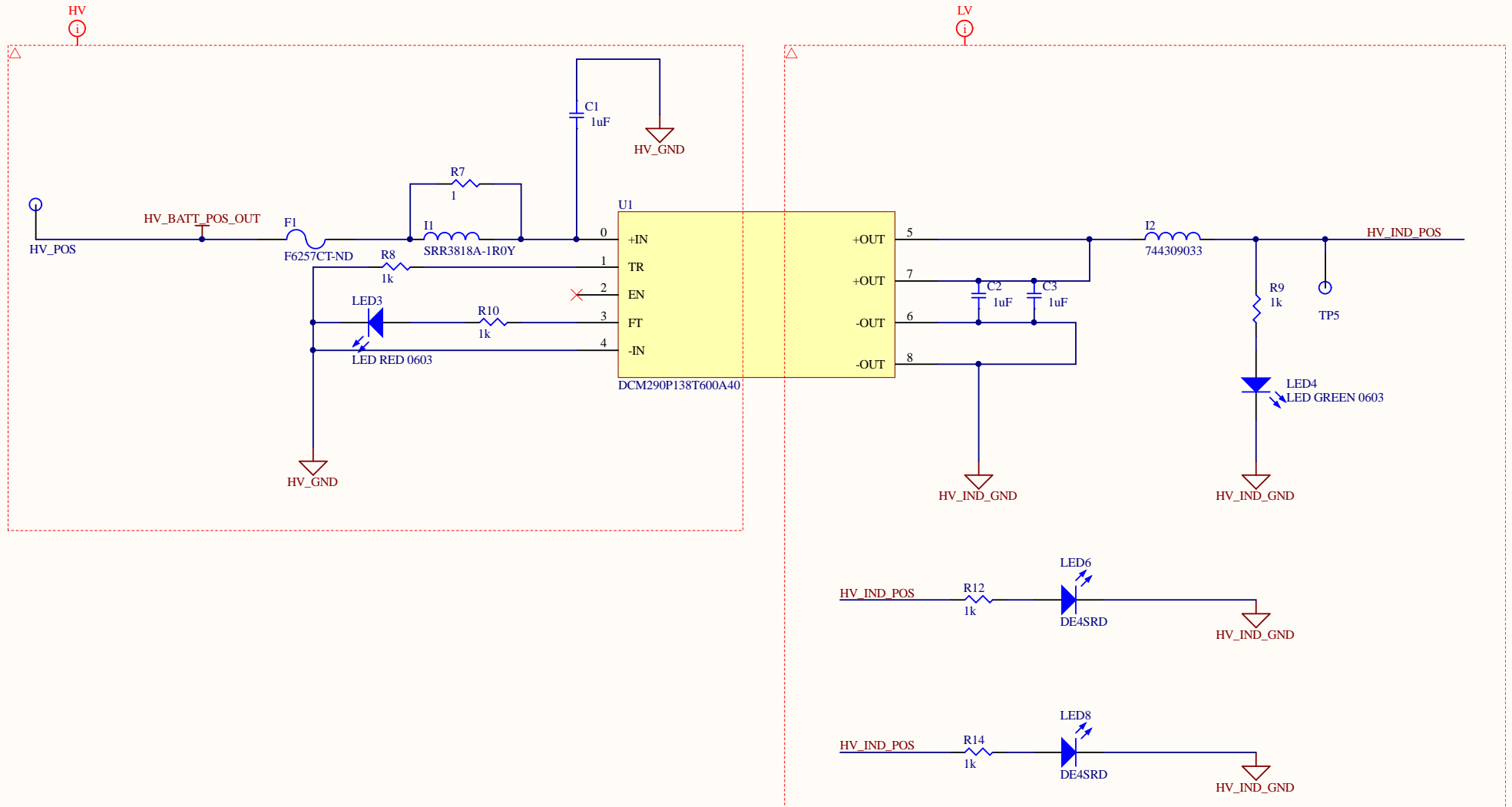
Title <i>Precharge</i>			Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, Wi 53706	
Engineer: Shelby Riggleman		Revision:1		
Date: 7/9/2020	Time: 9:05:25 PM	Sheet 1 of		
File: precharge.SchDoc				


Precharge Board Connectors



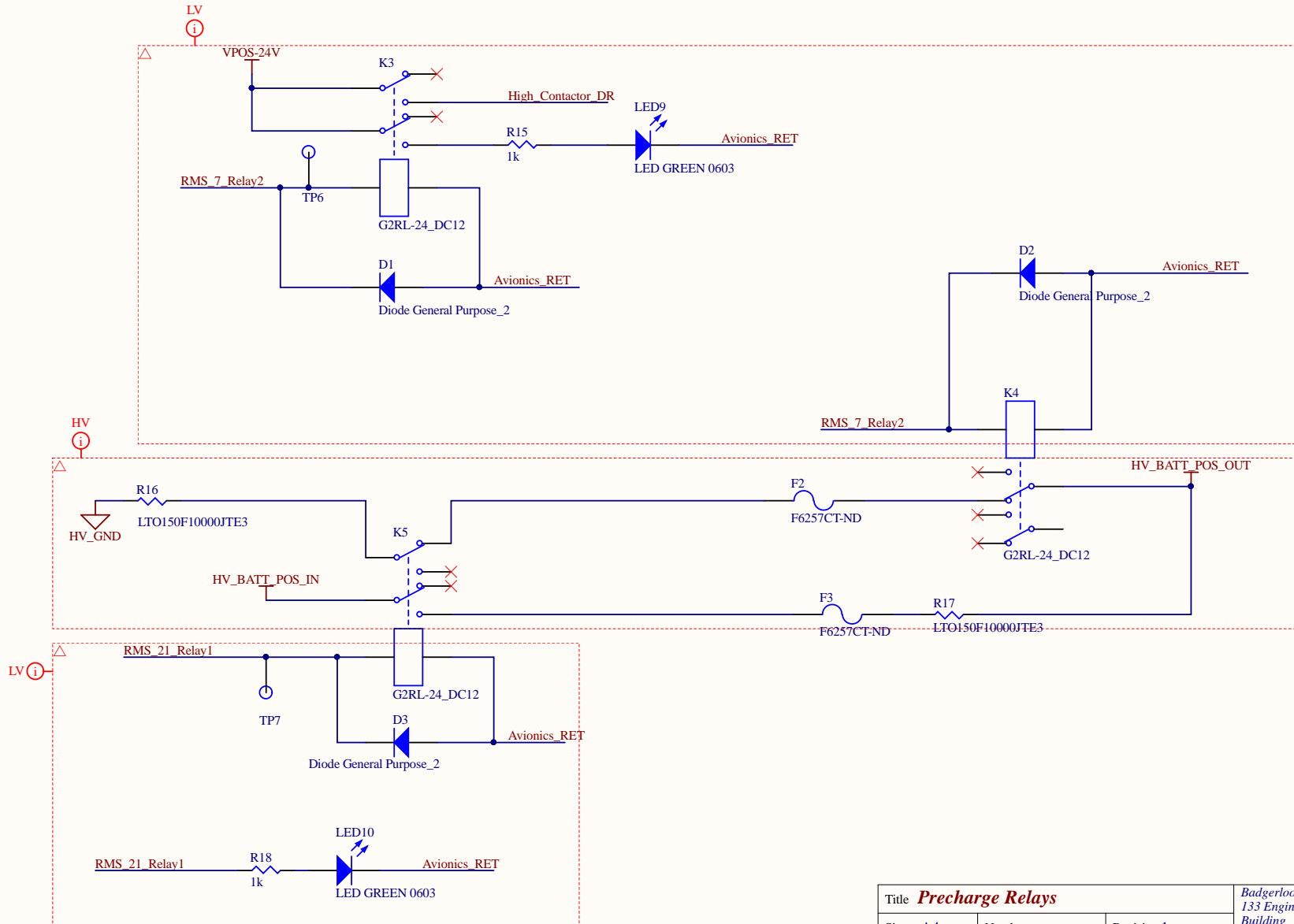
Title Connectors		Badgerloop Electrical 133 Engineering Research Building 1500 Engineering Drive Madison, WI 53706	
Engineer: Shelby Riggleman	Revision: 1	BADGER LOOP	
Date: 7/9/2020	Time: 9:05:25 PM		
File: connectors.SchDoc	Sheet 2 of 2		


High Voltage Indicator Light



Title <i>HV Indicator Light</i>			Badgerloop 133 Engineering Research Building Madison, WI 53715 
Size: A4	Number:	Revision:1	
Date: 7/9/2020	Time: 9:05:25 PM	Sheet 3 of	
File: C:\Users\Windows PC\Desktop\Badgerloop\git_repos\hardware\precharge\indicator_light.SchDoc			

Precharge Relays

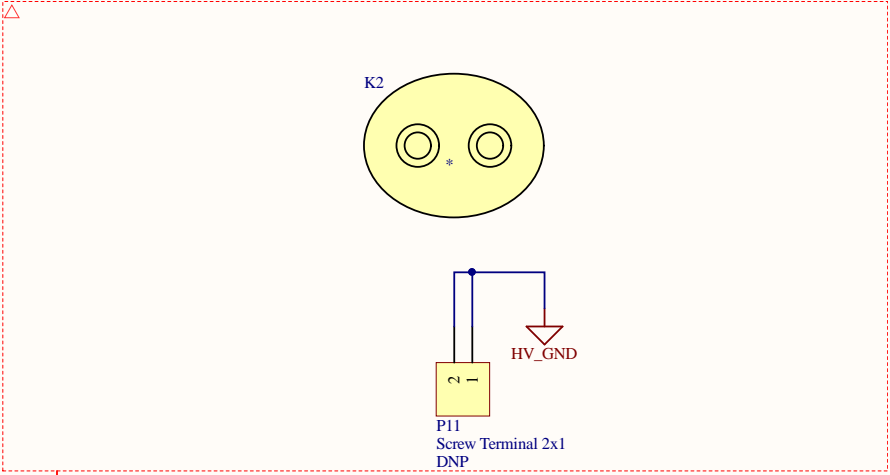
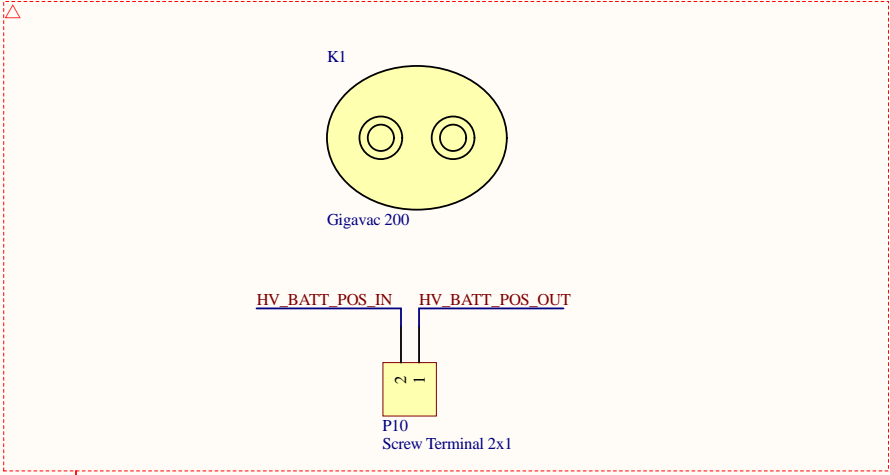
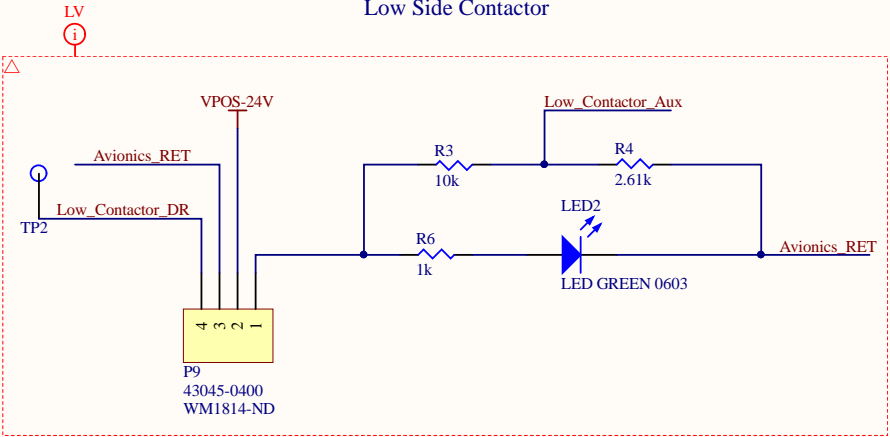
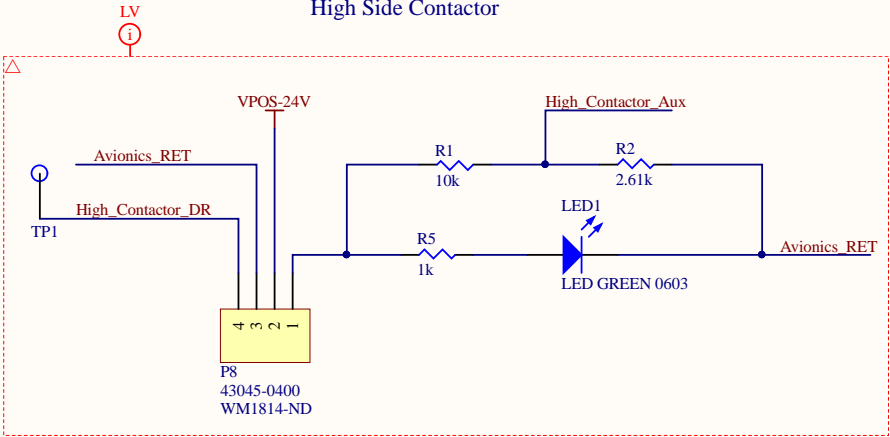


Title <i>Precharge Relays</i>			Badgerloop 133 Engineering Research Building Madison, WI 53715	
Size: A4	Number:	Revision:1		
Date: 7/9/2020	Time: 9:05:25 PM	Sheet 4 of		
File: C:\Users\Windows PC\Desktop\Badgerloop\git_repos\hardware\precharge\precharge_relays.SchDoc				

High Voltage Contactors

High Side Contactor

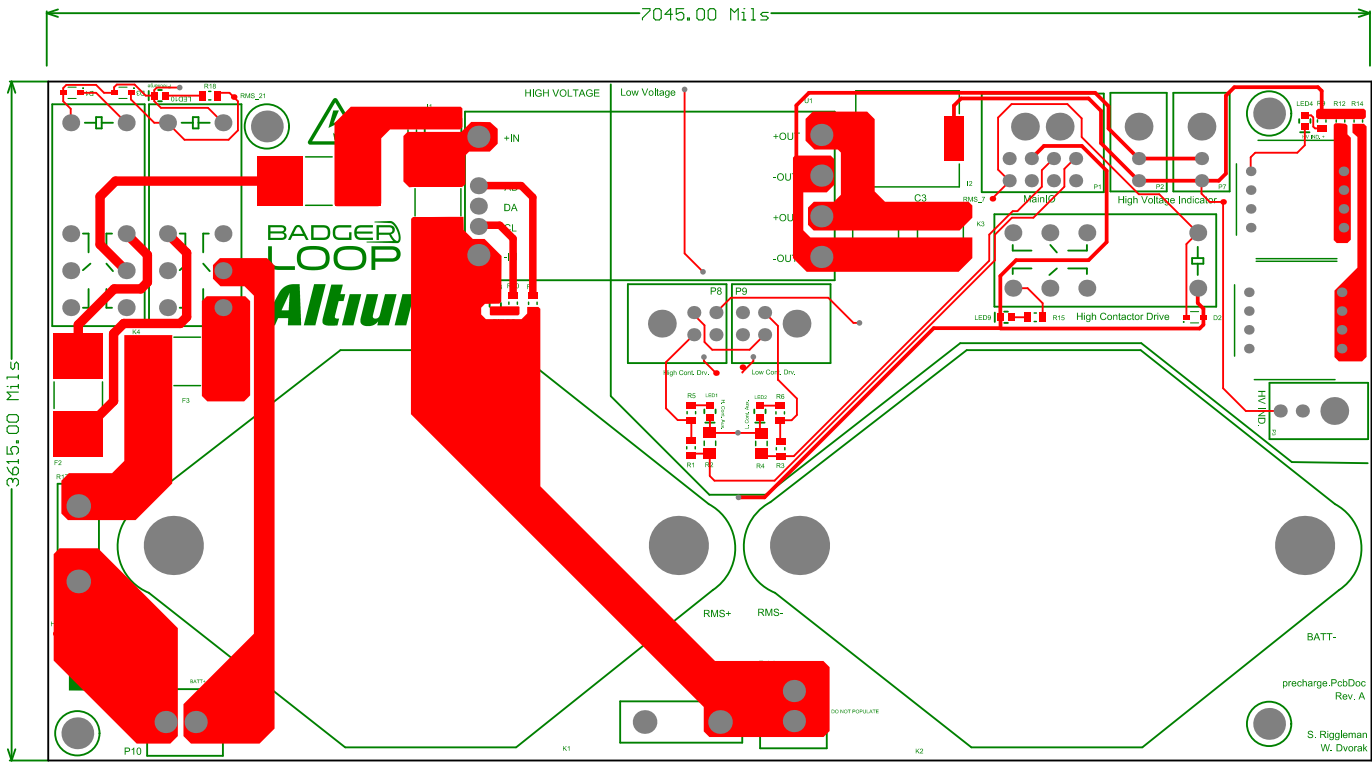
Low Side Contactor



Title <i>HV Contactors</i>			BADGER LOOP
Size: A4	Number:	Revision:1	
Date: 7/9/2020	Time: 9:05:25 PM	Sheet 5 of	
File: C:\Users\Windows PC\Desktop\Badgerloop\git_repos\hardware\precharge\Contactors.SchDoc			

Badgerloop
133 Engineering Research
Building
Madison, WI 53715

Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.40mil	3.5	
3	Top Layer	Copper	1.40mil		
4	Dielectric 1	FR-4	10.00mil	4.2	
5	Bottom Layer	Copper	1.40mil		
6	Bottom Solder	Solder Resist	0.40mil	3.5	
7	Bottom Overlay				



**BADGER
LOOP**

Badgerloop
ERB Room 133
1400 Engineering Drive
Madison, WI 53706

ENGINEER:
SRiggleman, WDvorak

PCB DESIGNER:
SRiggleman, WDvorak

DATE:
7/9/2020

FILE NAME:
precharge.PcbDoc

TITLE:
precharge.PcbDoc

PART NO.:
Precharge HV Board

DWG NO:

REV:
A

SCALE:
1:1

1

2

3

4

A

A

B

B

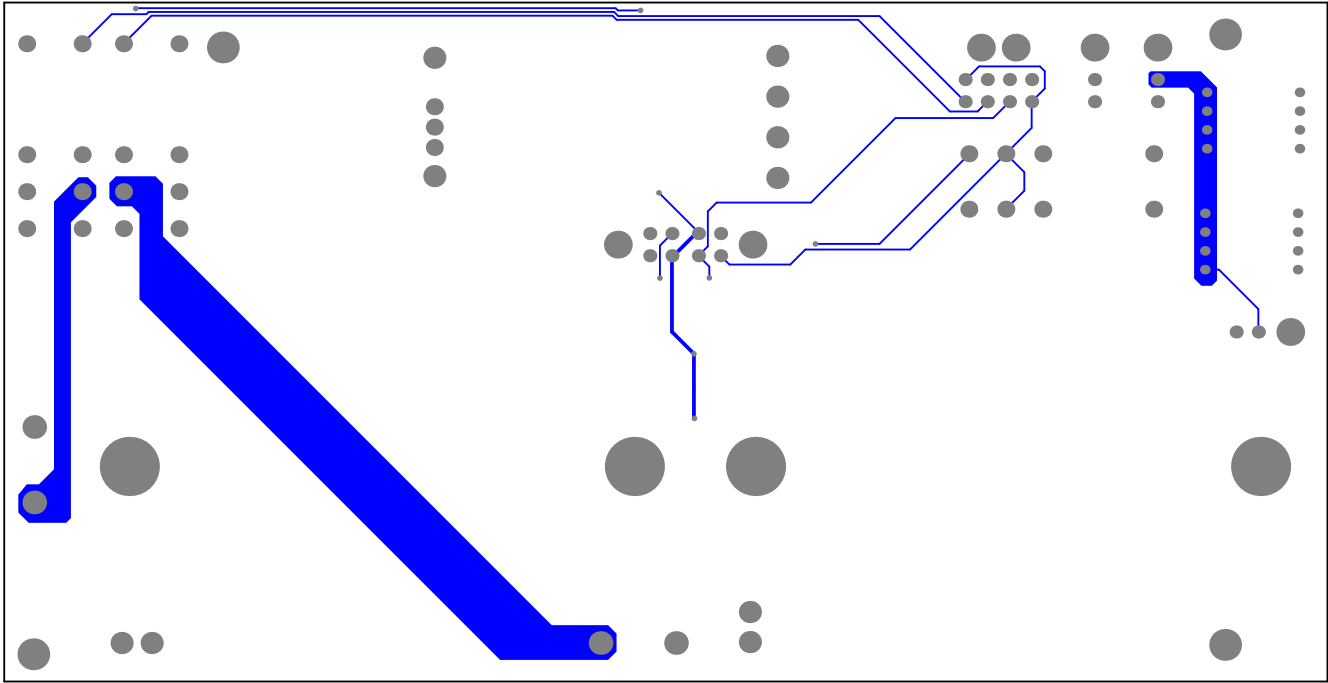
C

C

D

D

Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.40mil	3.5	
3	Top Layer	Copper	1.40mil		
4	Dielectric 1	FR-4	10.00mil	4.2	
5	Bottom Layer	Copper	1.40mil		
6	Bottom Solder	Solder Resist	0.40mil	3.5	
7	Bottom Overlay				



**BADGER
LOOP**

Badgerloop
ERB Room 133
1400 Engineering Drive
Madison, WI 53706

ENGINEER:
SRiggleman, WDvorak

PCB DESIGNER:
SRiggleman, WDvorak

DATE:
7/9/2020

FILE NAME:
precharge.PcbDoc

TITLE:
precharge.PcbDoc

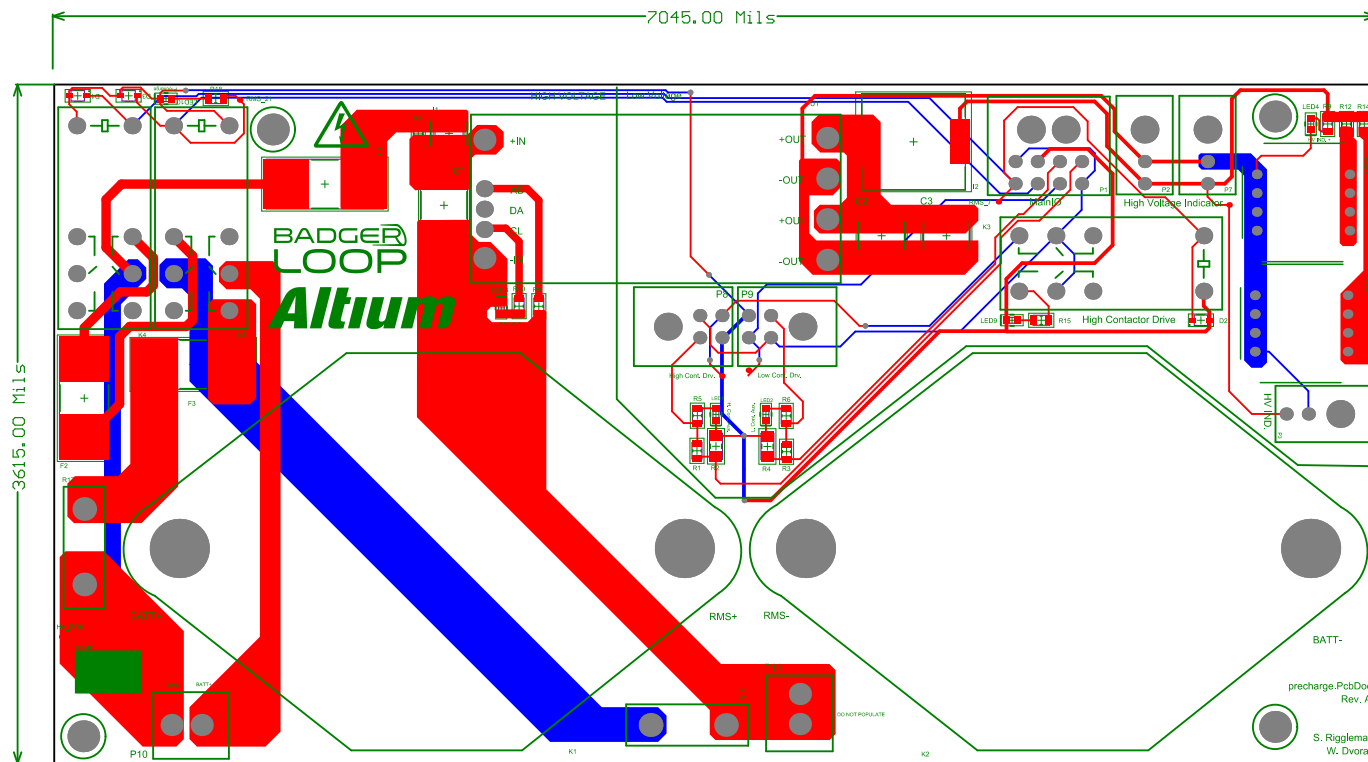
PART NO.:
Precharge HV Board

REV:
A

DWG NO:

SCALE:
1:1

Layer	Name	Material	Thickness	Constant	Board Layer Stack
1	Top Overlay				
2	Top Solder	Solder Resist	0.40mil	3.5	
3	Top Layer	Copper	1.40mil		
4	Dielectric 1	FR-4	10.00mil	4.2	
5	Bottom Layer	Copper	1.40mil		
6	Bottom Solder	Solder Resist	0.40mil	3.5	
7	Bottom Overlay				



**BADGER[®]
LOOP**

Badgerloop
ERB Room 133
1400 Engineering Drive
Madison, WI 53706

ENGINEER: SRiggleman, WDvorak

PCB DESIGNER:
SRigglesman, WDvorak

DATE:
7/9/2020

FILE NAME:
precharge.PcbDoc

TITLE: precharge.PcbDoc

PART NO.:
Precharge HV Board

DWG NO:	
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REV:
A

SCALE:
1:1