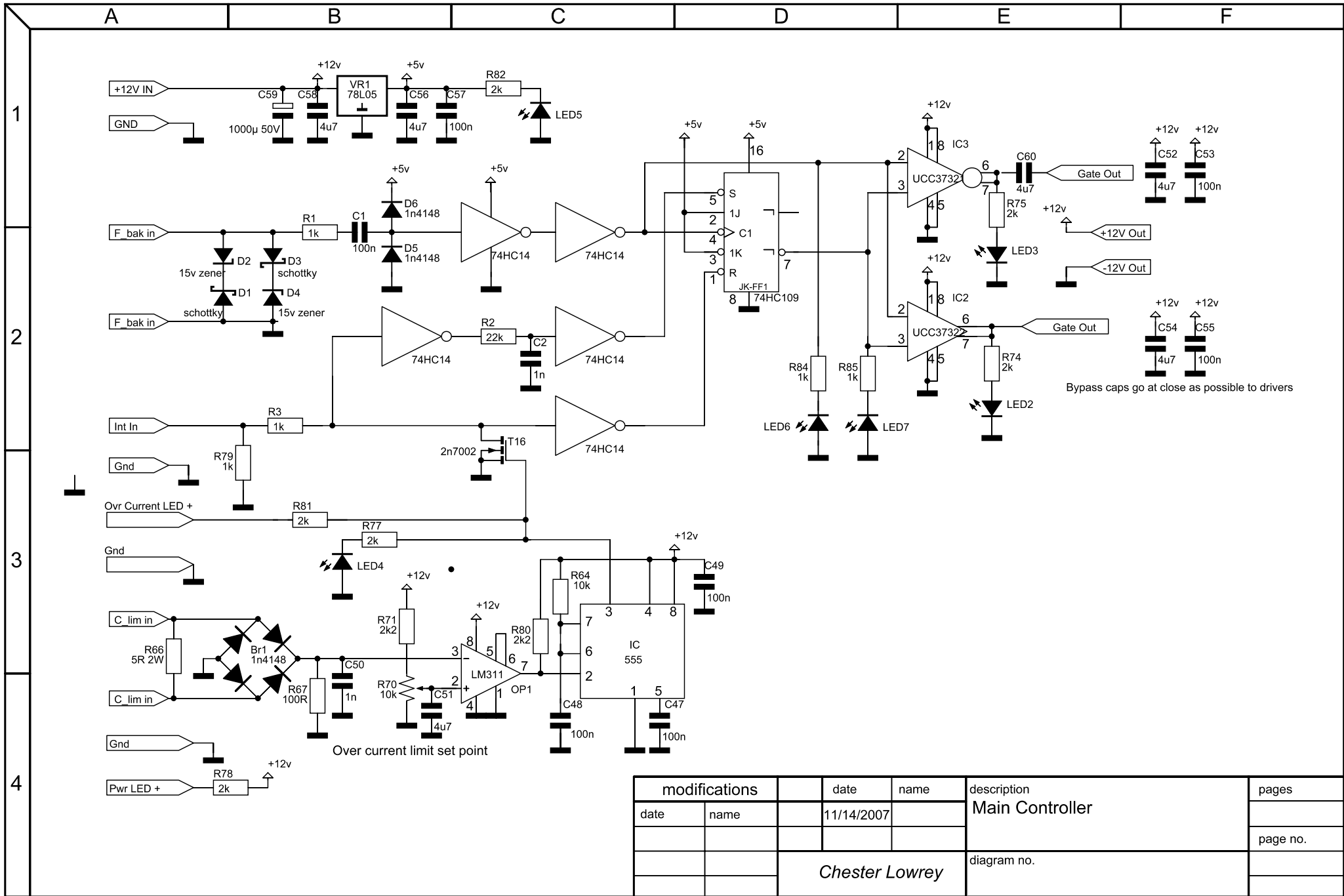
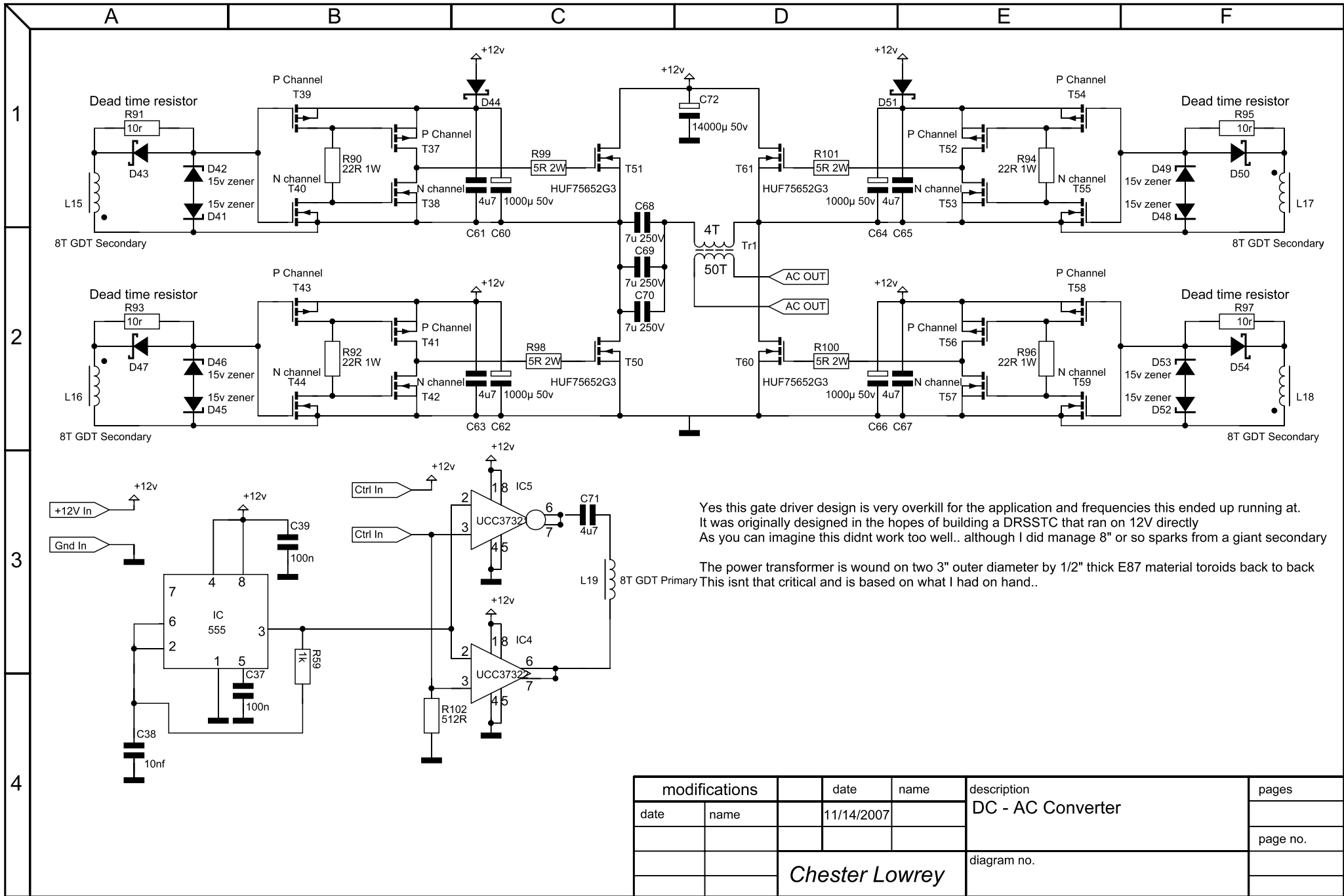


modifications		date	name	description	pages
date	name	11/14/2007		HHDRSSTC	
					page no.
				diagram no.	
				Chester Lowrey	



modifications		date	name	description	pages
date	name	11/14/2007			Main Controller
				page no.	
			<i>Chester Lowrey</i>	diagram no.	



Yes this gate driver design is very overkill for the application and frequencies this ended up running at. It was originally designed in the hopes of building a DRSSTC that ran on 12V directly. As you can imagine this didnt work too well.. although I did manage 8" or so sparks from a giant secondary

The power transformer is wound on two 3" outer diameter by 1/2" thick E87 material toroids back to back. This isnt that critical and is based on what I had on hand..

modifications		date	name	description	pages
date	name	11/14/2007			DC - AC Converter
					page no.
				diagram no.	
				<i>Chester Lowrey</i>	

A

B

C

D

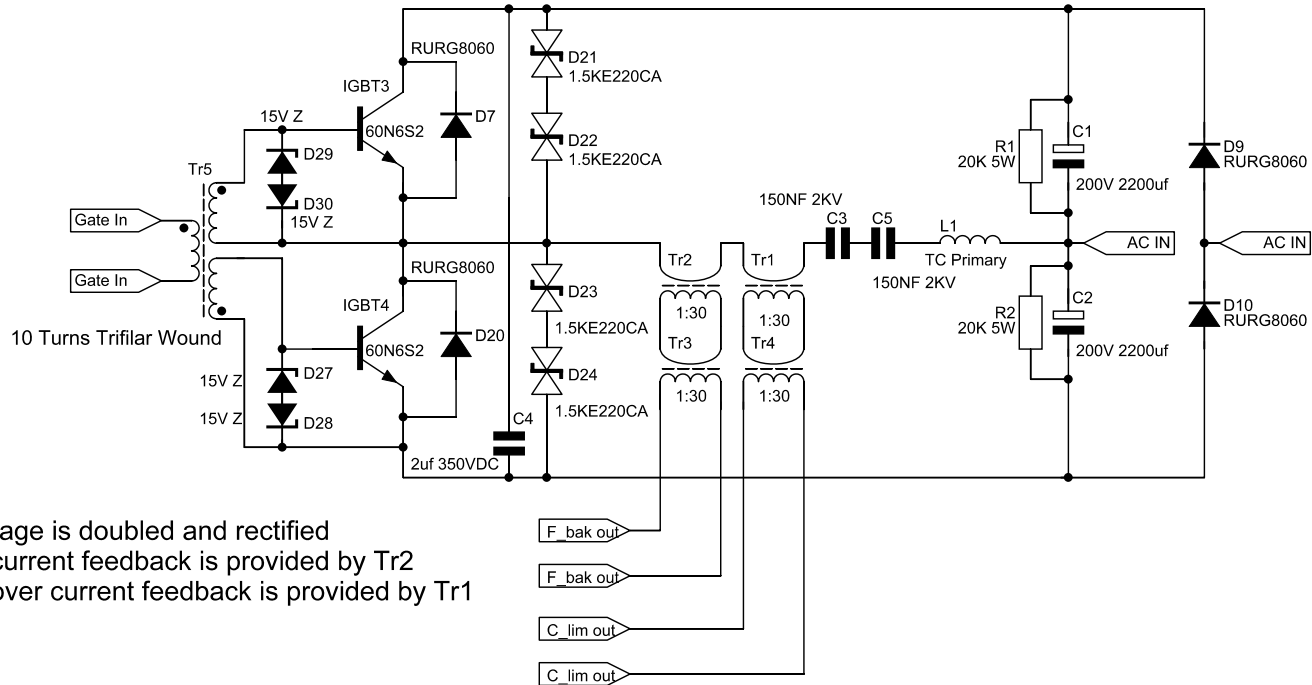
E

F

1

60N6S2 = 75A 600V, 15NS Rise, 50NS Fall
 RURG8060 = 80A 600V, 75NS Recovery at 80A
 1.5KE220CA = 1500W 220V TVS

0 - 300V AC from DC - AC



2

3

4

modifications		date	name	description	pages
date	name	11/14/2007		IGBT H-Bridge	
					page no.
				diagram no.	
			<i>Chester Lowrey</i>		

A

B

C

D

E

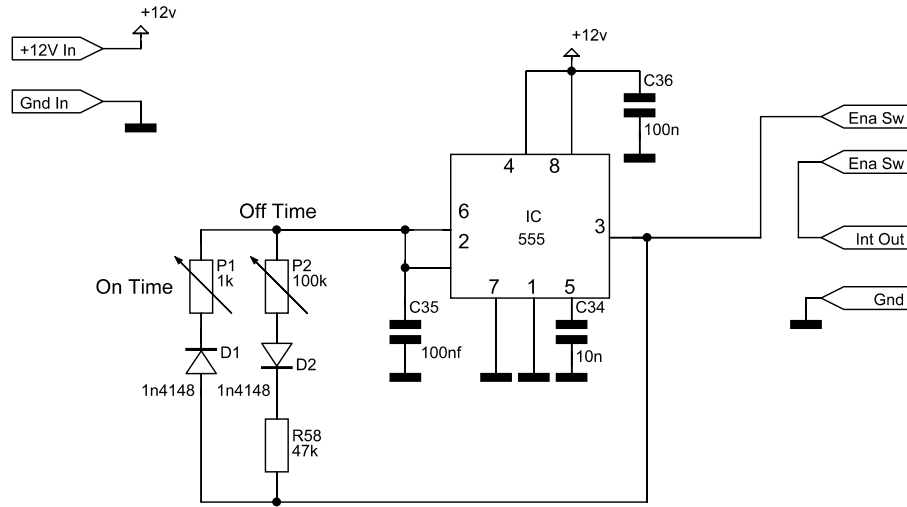
F

1

2

3

4



modifications		date	name	description	pages
date	name	11/14/2007			Interrupter
				page no.	
		Chester Lowrey		diagram no.	