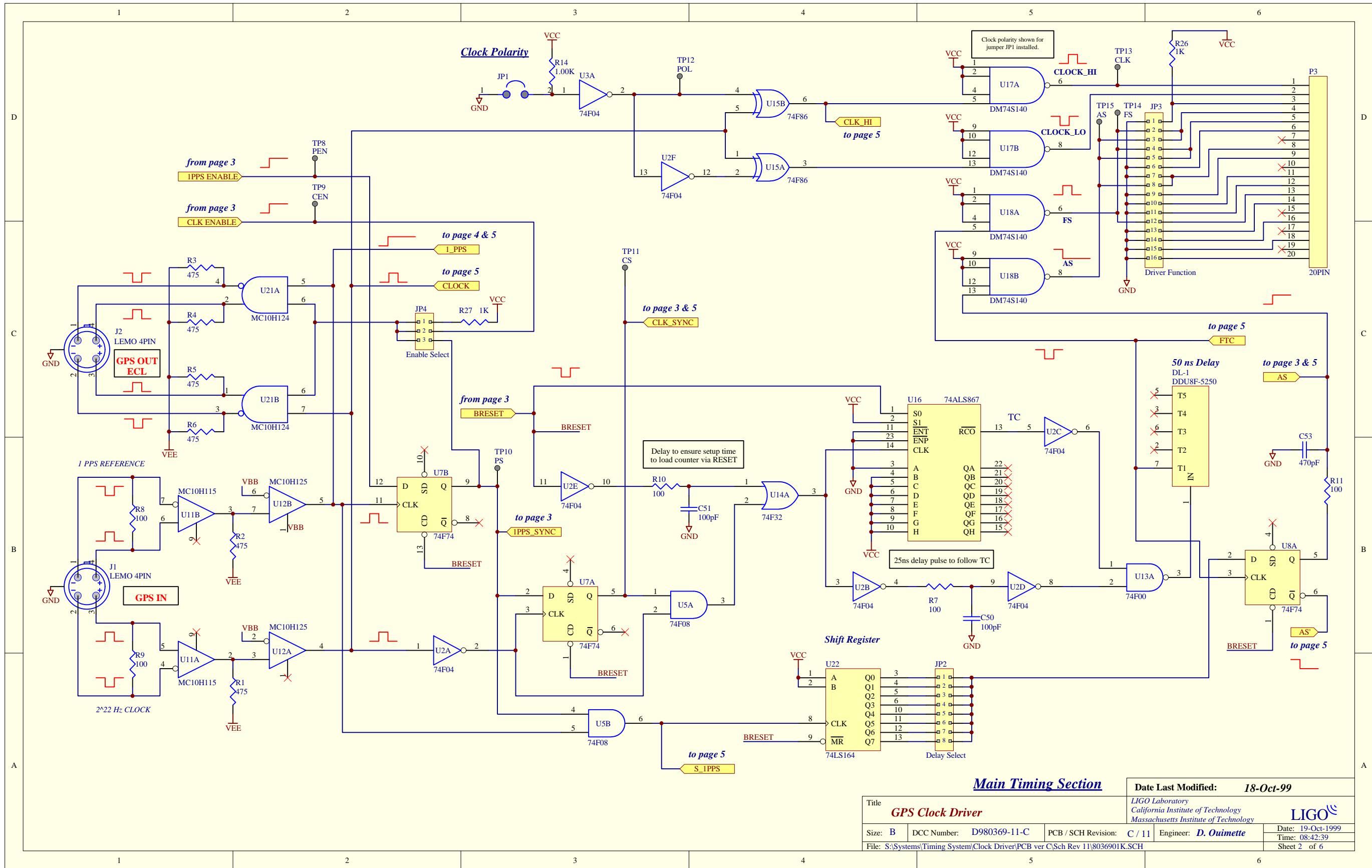


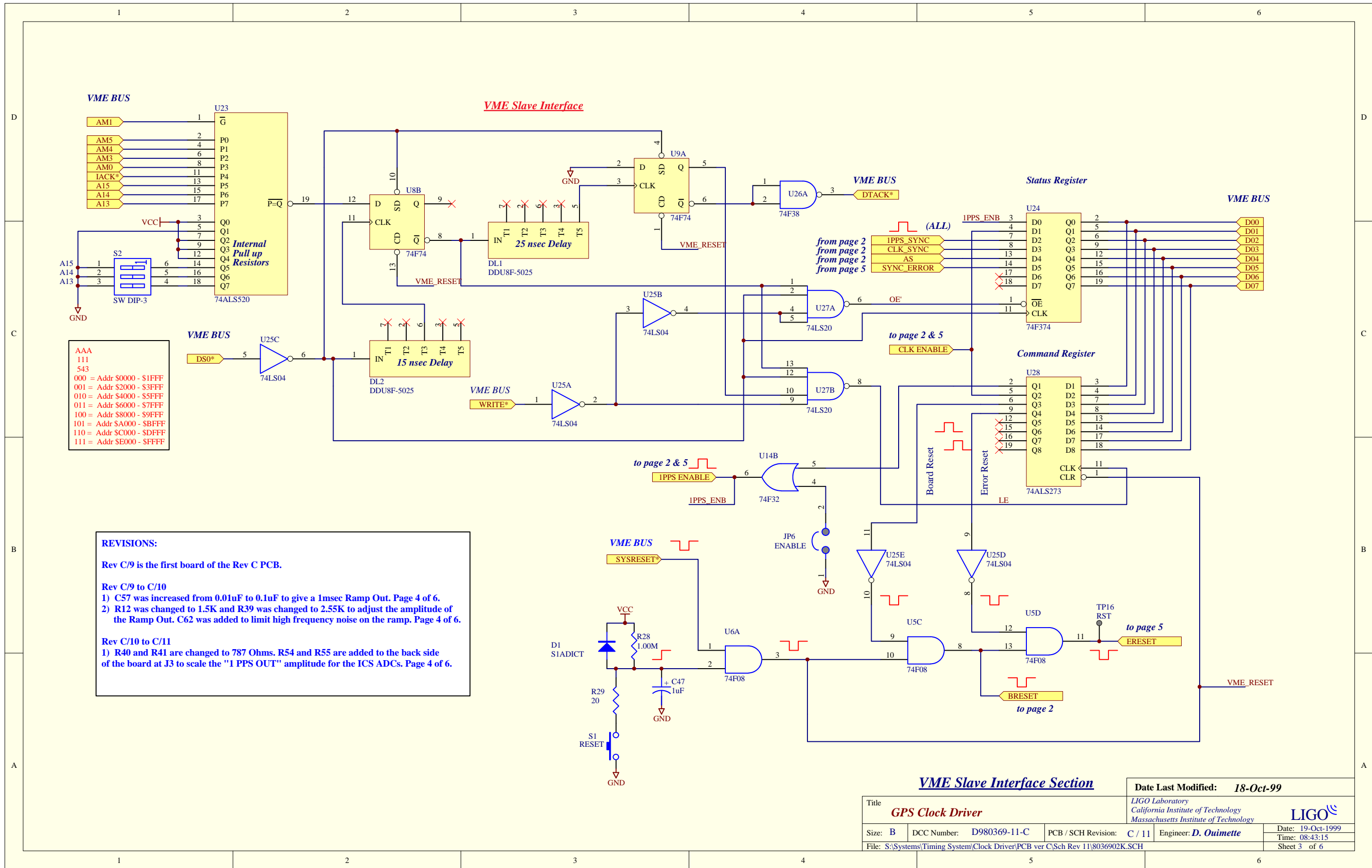
Title		Date Last Modified: 18-Oct-99	
GPS Clock Driver		LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology	
Size: B	DCC Number: D980369-11-C	PCB / SCH Revision: C / 11	Engineer: D. Ouimette
File: S:\Systems\Timing System\Clock Driver\PCB ver C\Sch Rev 11\8036900K.prj		Date: 19-Oct-1999	Time: 08:42:21
		Sheet 1 of 6	



Main Timing Section

Date Last Modified: 18-Oct-99

Title GPS Clock Driver		LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology		LIGO	
Size: B	DCC Number: D980369-11-C	PCB / SCH Revision: C / 11	Engineer: D. Ouimette	Date: 19-Oct-1999	
File: S:\Systems\Timing System\Clock Driver\PCB ver C\Sch Rev 11\8036901K.SCH				Time: 08:42:39	Sheet 2 of 6



AAA
111
543

000 = Addr \$0000 - \$1FFF
001 = Addr \$2000 - \$3FFF
010 = Addr \$4000 - \$5FFF
011 = Addr \$6000 - \$7FFF
100 = Addr \$8000 - \$9FFF
101 = Addr \$A000 - \$BFFF
110 = Addr \$C000 - \$DFFF
111 = Addr \$E000 - \$FFFF

REVISIONS:

Rev C/9 is the first board of the Rev C PCB.

Rev C/9 to C/10

- 1) C57 was increased from 0.01uF to 0.1uF to give a 1msec Ramp Out. Page 4 of 6.
- 2) R12 was changed to 1.5K and R39 was changed to 2.55K to adjust the amplitude of the Ramp Out. C62 was added to limit high frequency noise on the ramp. Page 4 of 6.

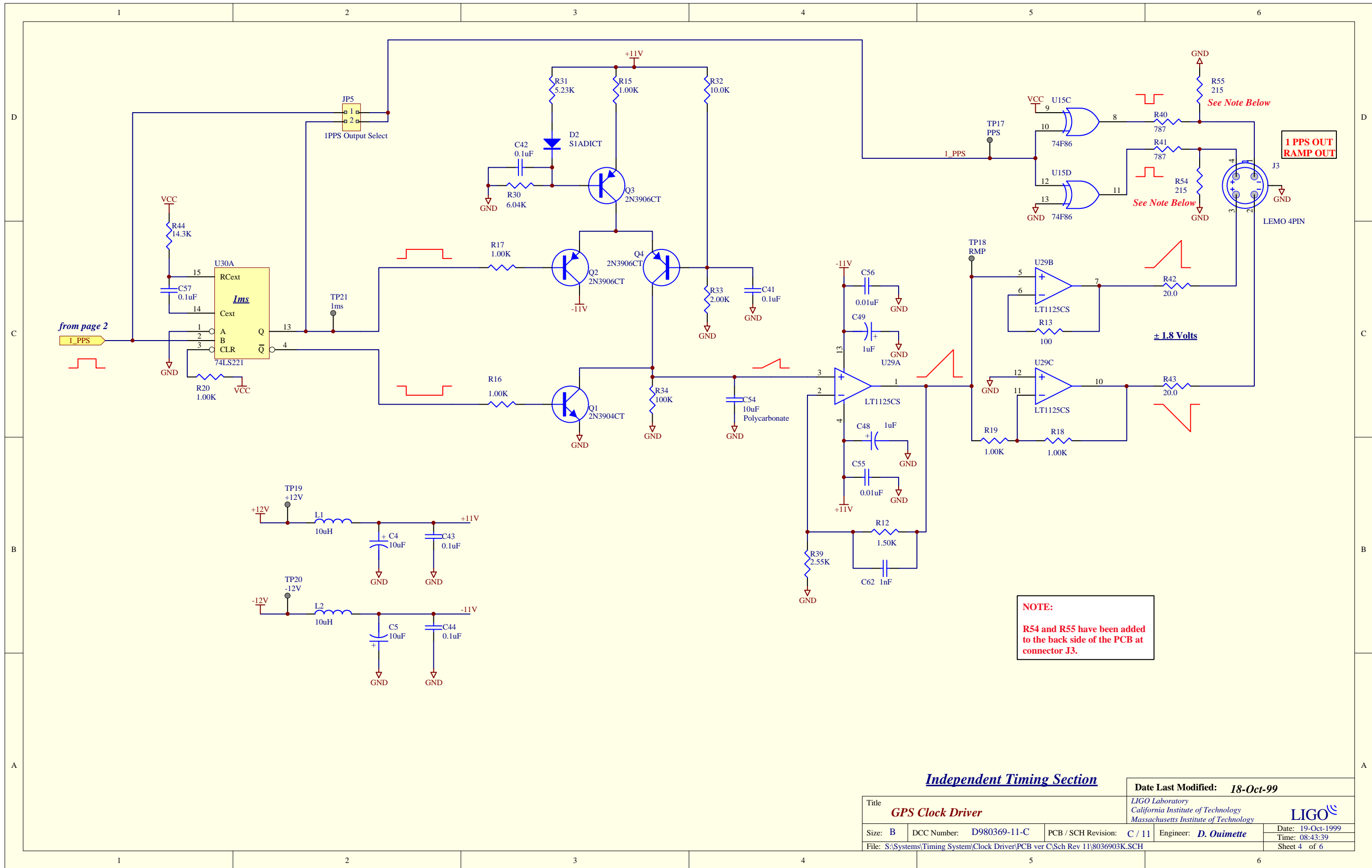
Rev C/10 to C/11

- 1) R40 and R41 are changed to 787 Ohms. R54 and R55 are added to the back side of the board at J3 to scale the "1 PPS OUT" amplitude for the ICS ADCs. Page 4 of 6.

VME Slave Interface Section

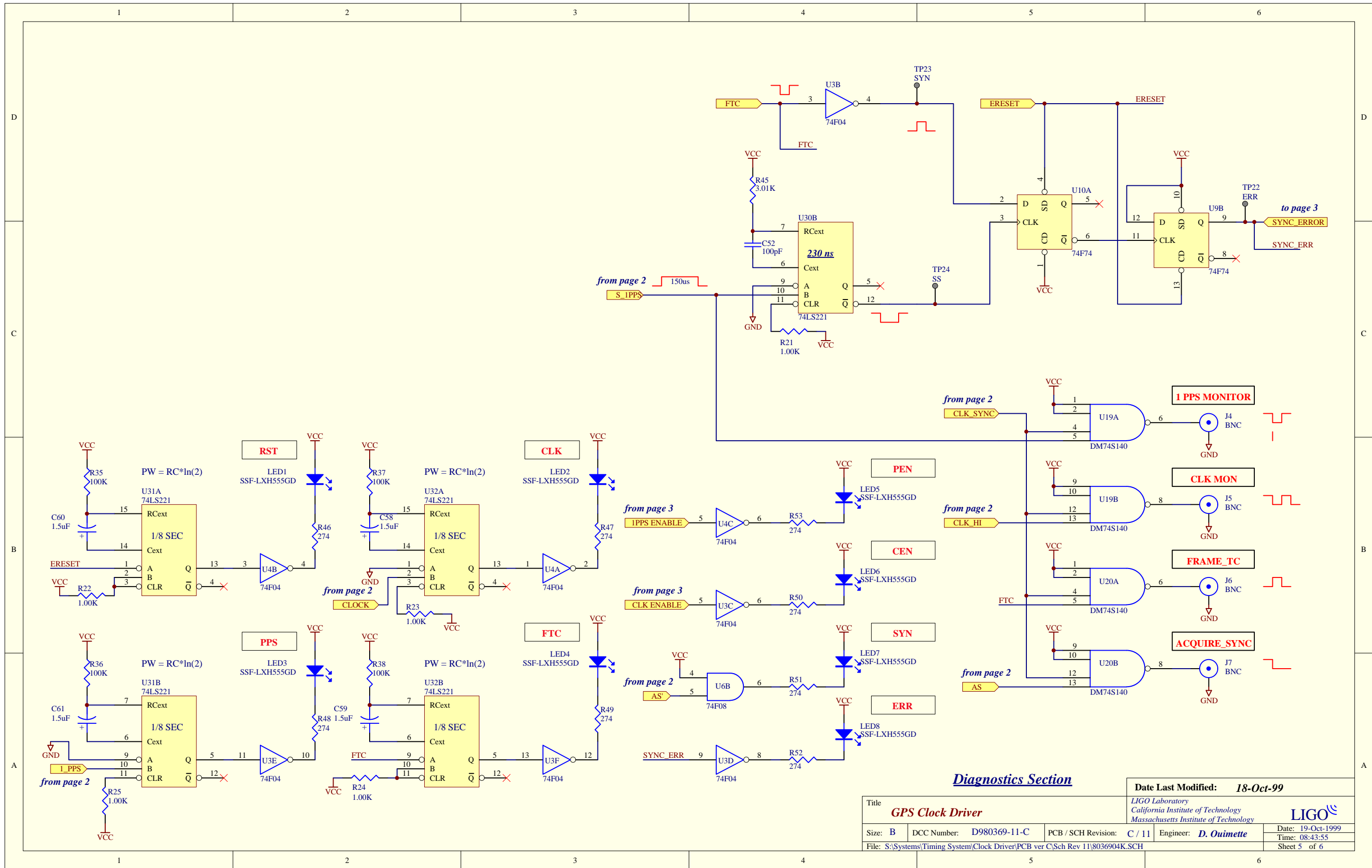
Date Last Modified: 18-Oct-99

Title GPS Clock Driver		LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology		LIGO	
Size: B	DCC Number: D980369-11-C	PCB / SCH Revision: C / 11	Engineer: D. Ouimette	Date: 19-Oct-1999	Time: 08:43:15
File: S:\Systems\Timing System\Clock Driver\PCB ver C\Sch Rev 11\8036902K.SCH				Sheet 3 of 6	



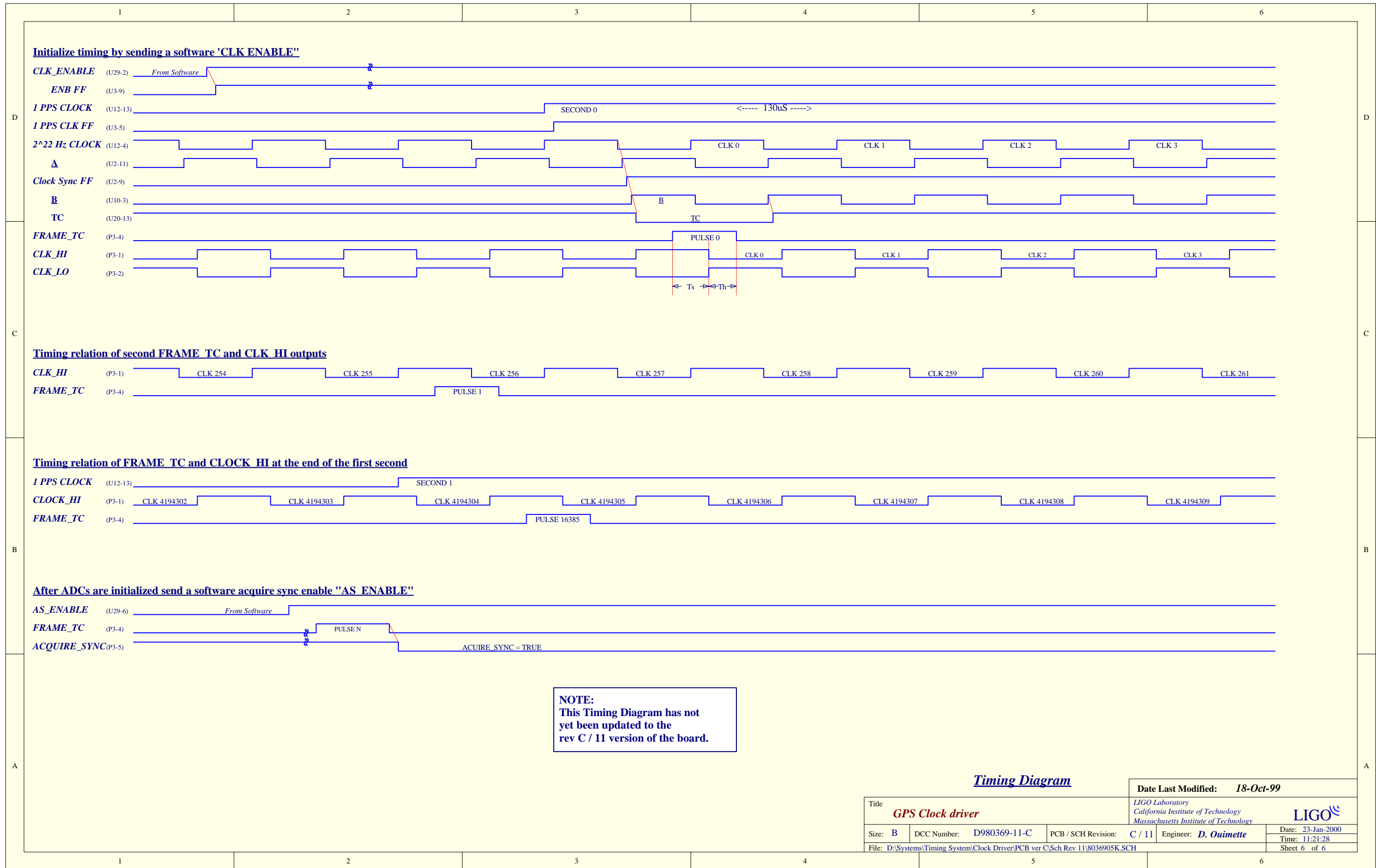
Independent Timing Section

Title GPS Clock Driver			Date Last Modified: 18-Oct-99	
Size: B			LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology	
DCC Number: D980369-11-C	PCB / SCH Revision: C / 11	Engineer: D. Ouimette	LIGO	
File: S:\Systems\Timing System\Clock Driver\PCB ver C\Sch Rev 11\8036903K.SCH			Date: 19-Oct-1999	
			Time: 08:43:39	
			Sheet 4 of 6	



Diagnostics Section

Title GPS Clock Driver			Date Last Modified: 18-Oct-99		
Size: B			LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology		
DCC Number: D980369-11-C			LIGO		
PCB / SCH Revision: C / 11			Date: 19-Oct-1999		
Engineer: D. Ouimette			Time: 08:43:55		
File: S:\Systems\Timing System\Clock Driver\PCB ver C\Sch Rev 11\8036904K.SCH			Sheet 5 of 6		



Timing Diagram

Title				Date Last Modified: 18-Oct-99	
GPS Clock driver				LIGO Laboratory California Institute of Technology Massachusetts Institute of Technology	
Size: B	DCC Number: D980369-11-C	PCB / SCH Revision: C / 11	Engineer: D. Ouimette	Date: 23-Jan-2000	LIGO
File: D:\Systems\Timing System\Clock Driver\PCB ver C\Sch Rev 11\8036905K.SCH				Time: 11:21:28	Sheet 6 of 6