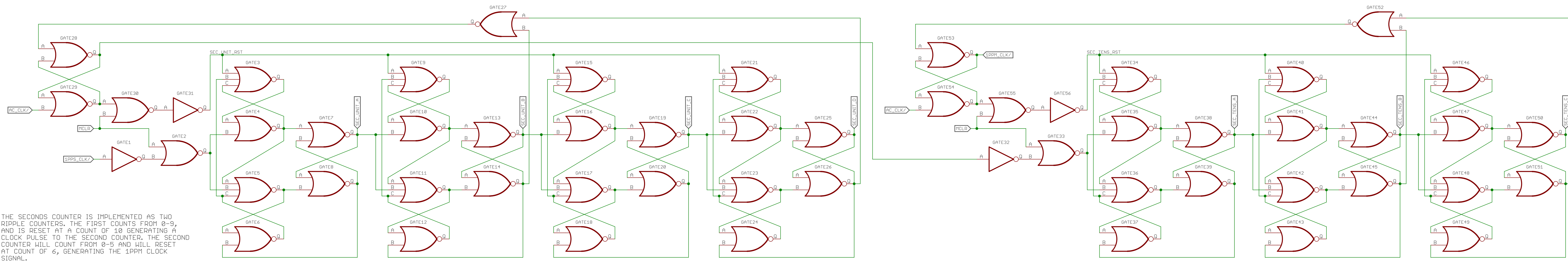
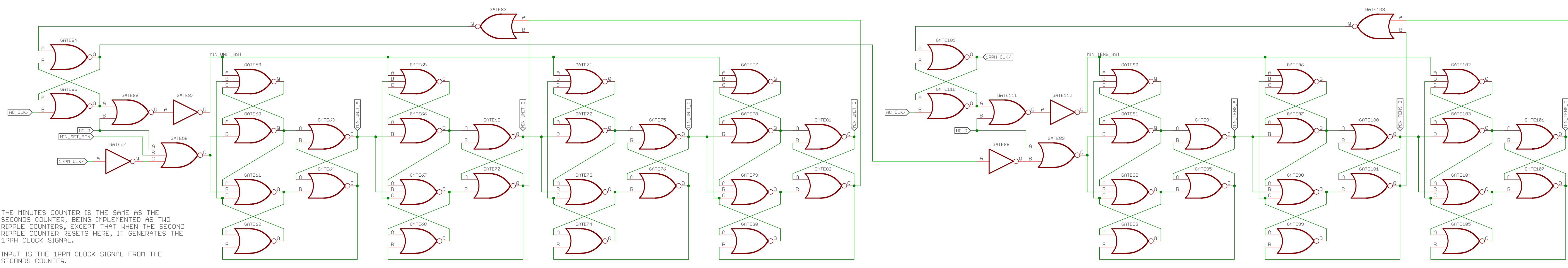


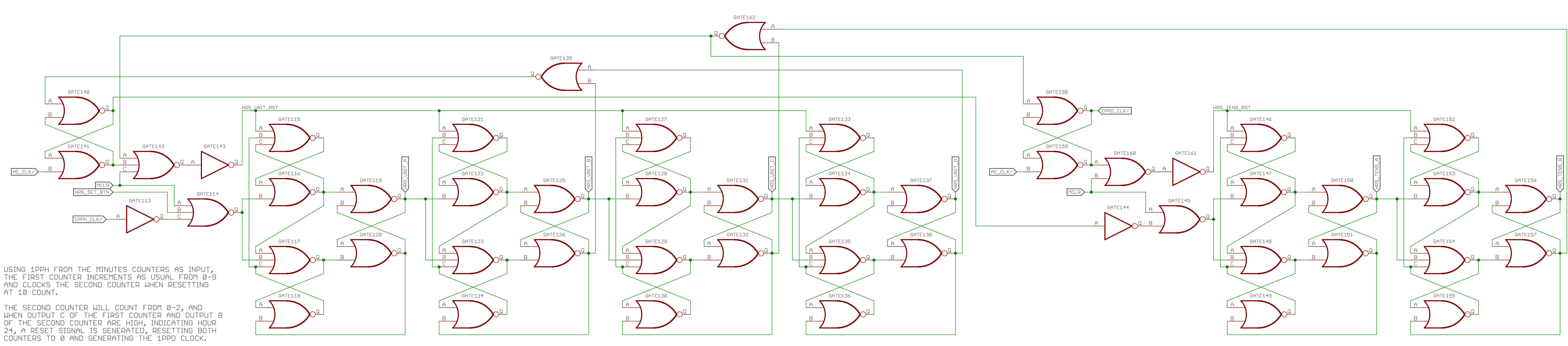
SECONDS COUNTER AND 1PPM CLOCK GENERATOR



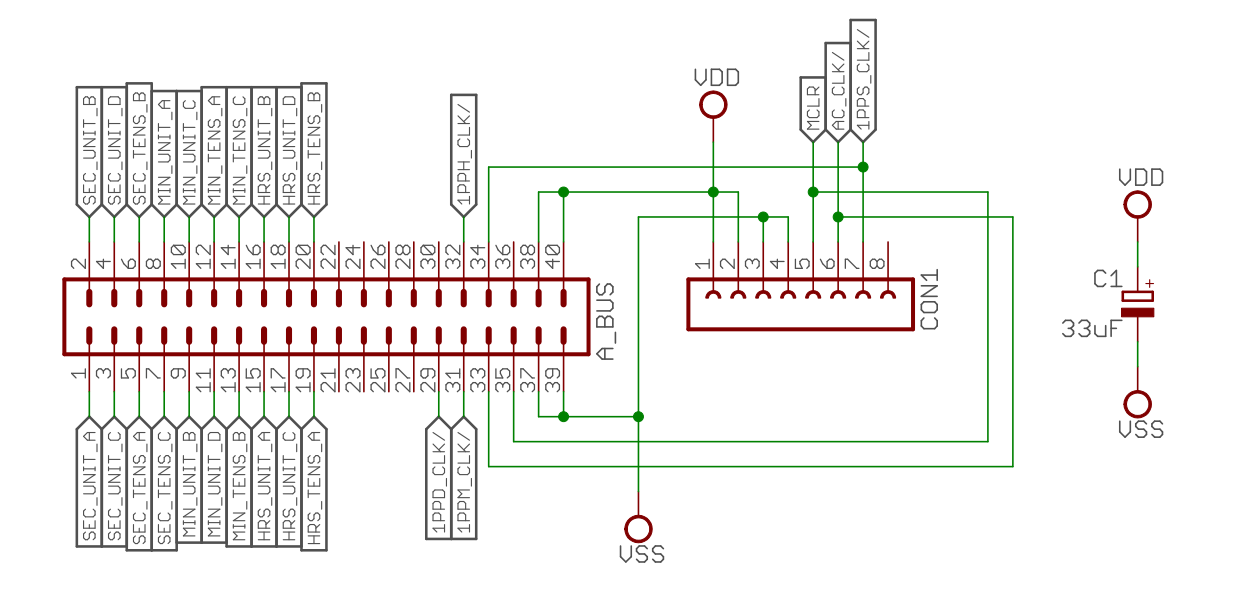
MINUTES COUNTER AND 1PPH CLOCK GENERATOR



HOURS COUNTER AND 1PPD CLOCK GENERATOR



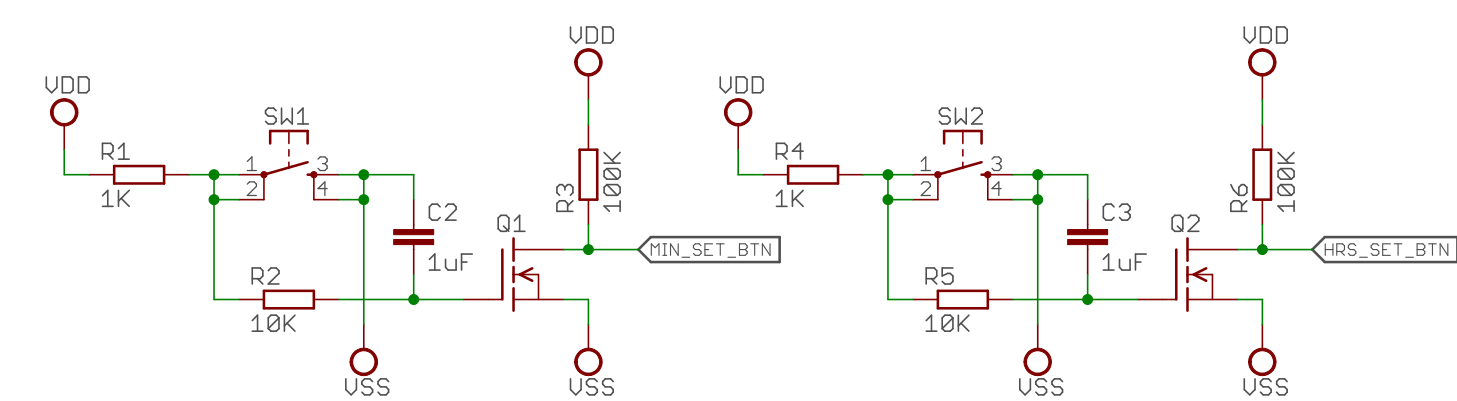
BUS CONNECTORS



MINUTES AND HOURS SET BUTTONS

THESE BUTTONS ALLOW THE MINUTES AND HOURS COUNTERS TO BE ADVANCED MANUALLY, E.G. WHILE SETTING THE TIME.

EACH BUTTON HAS AN RC CIRCUIT WHICH IS USED AS A HARDWARE DEBOUNCE PREVENTING MULTIPLE ADVANCES PER BUTTON PRESS.



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