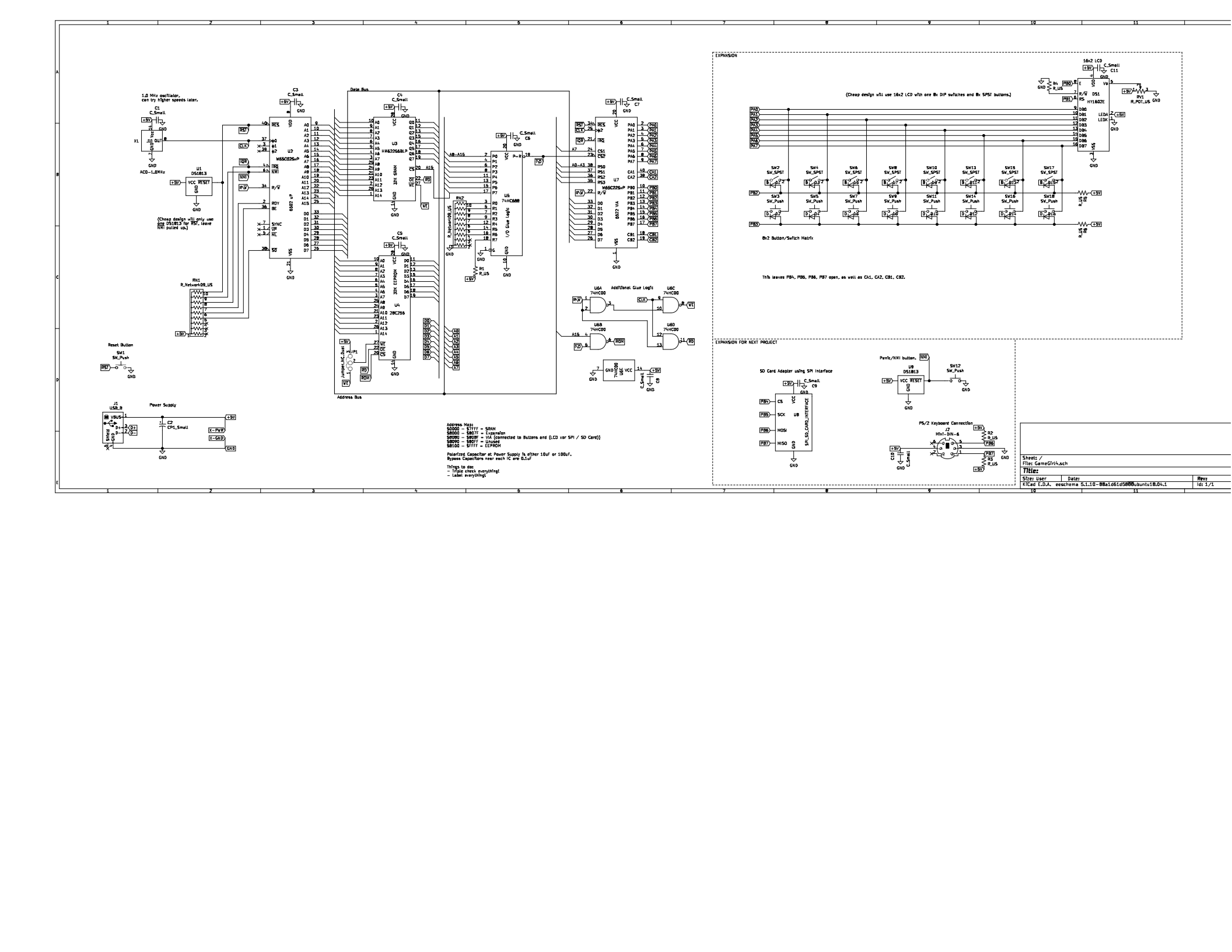
1.0 MHz oscillator.
can try higher speeds later.
(Cheap design will only use one DS1813 for RST, leave NMI pulled up.)
Data Bus
Address Bus
Reset Button
Power Supply
Address Map:
$0000 - $7FFF = SRAM
$8000 - $803F = Expansion
$8080 - $809F = VIA (connected to Buttons and (LCD xor SPI / SD Card))
$8090 - $80FF = Unused
$8100 - $FFFF = EEPROM
Polarized Capacitor at Power Supply is either 10uF or 100uF.
Bypass Capacitors near each IC are 0.1uF
Things to do:
- Triple check everything!
- Label everything!
EXPANSION
(Cheap design will use 16x2 LCD with one 8x DIP switches and 8x SPST buttons.)
8x2 Button/Switch Matrix
This leaves PB4, PB6, PB8, PB7 open, as well as CA1, CA2, CB1, CB2.
EXPANSION FOR NEXT PROJECT
SD Card Adapter using SPI Interface
Pause/NMI button.
PS/2 Keyboard Connection
Sheets /
File: GameGirl4.sch
Title:
Size: User
Date:
Rev:
KiCad E.D.A. eeschema 5.1.10-88a1d61d58~66ubuntu18.04.1
Id: 1/1