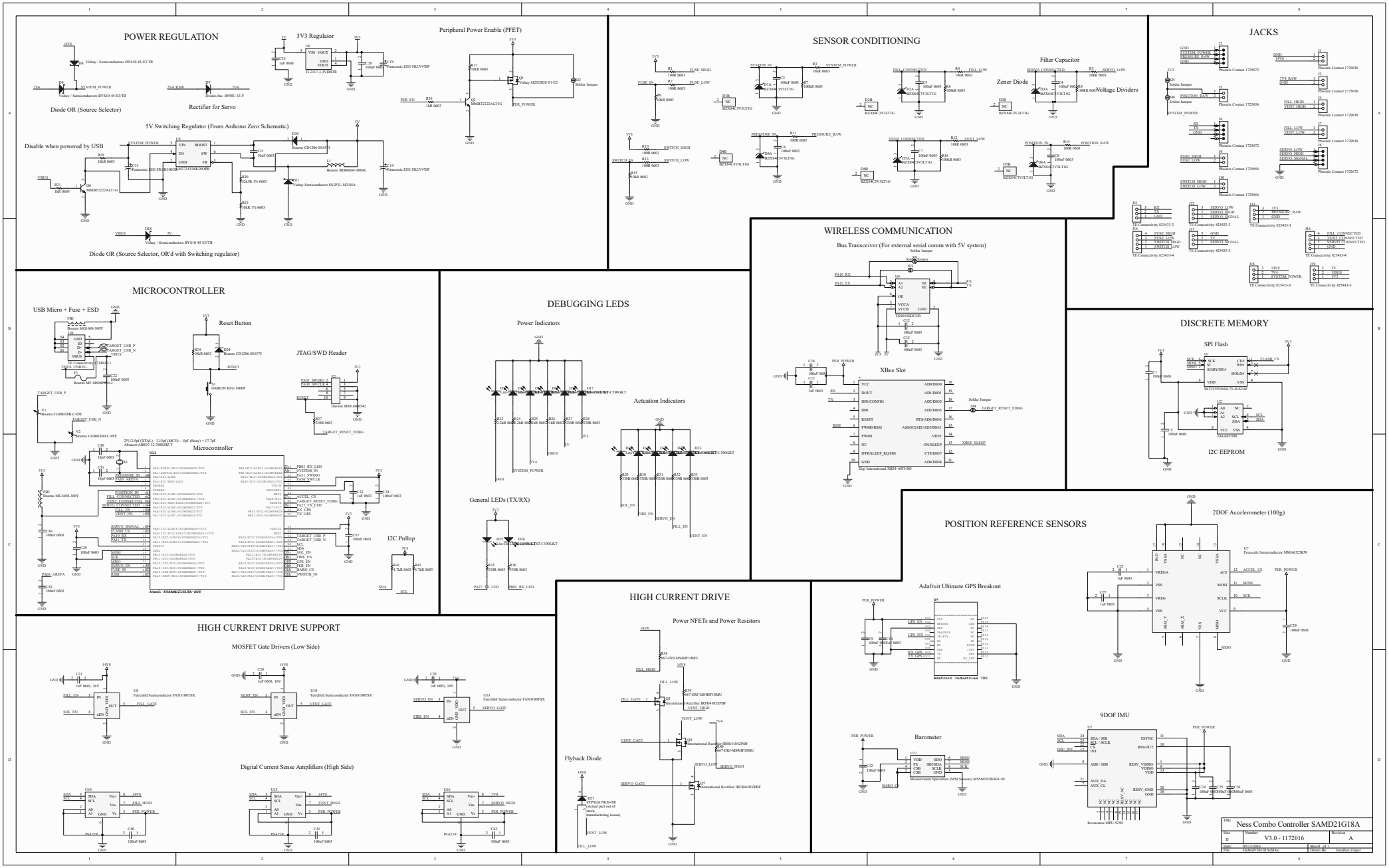
POWER REGULATION
Diode OR (Source Selector)
Rectifier for Servo
3V3 Regulator
Peripheral Power Enable (PFET)
5V Switching Regulator (From Arduino Zero Schematic)
Disable when powered by USB
Diode OR (Source Selector, OR'd with Switching regulator)
SENSOR CONDITIONING
Filter Capacitor
Zener Diode
Voltage Dividers
JACKS
WIRELESS COMMUNICATION
Bus Transceiver (For external serial comm with 5V system)
XBee Slot
DISCRETE MEMORY
SPI Flash
I2C EEPROM
MICROCONTROLLER
USB Micro + Fuse + ESD
Reset Button
JTAG/SWD Header
Microcontroller
I2C Pullup
DEBUGGING LEDS
Power Indicators
Actuation Indicators
General LEDs (TX/RX)
POSITION REFERENCE SENSORS
2DOF Accelerometer (100g)
Adafruit Ultimate GPS Breakout
9DOF IMU
Barometer
HIGH CURRENT DRIVE
Power NFETs and Power Resistors
Flyback Diode
HIGH CURRENT DRIVE SUPPORT
MOSFET Gate Drivers (Low Side)
Digital Current Sense Amplifiers (High Side)
Ness Combo Controller SAMD21G18A
V3.0 - 1172016
A