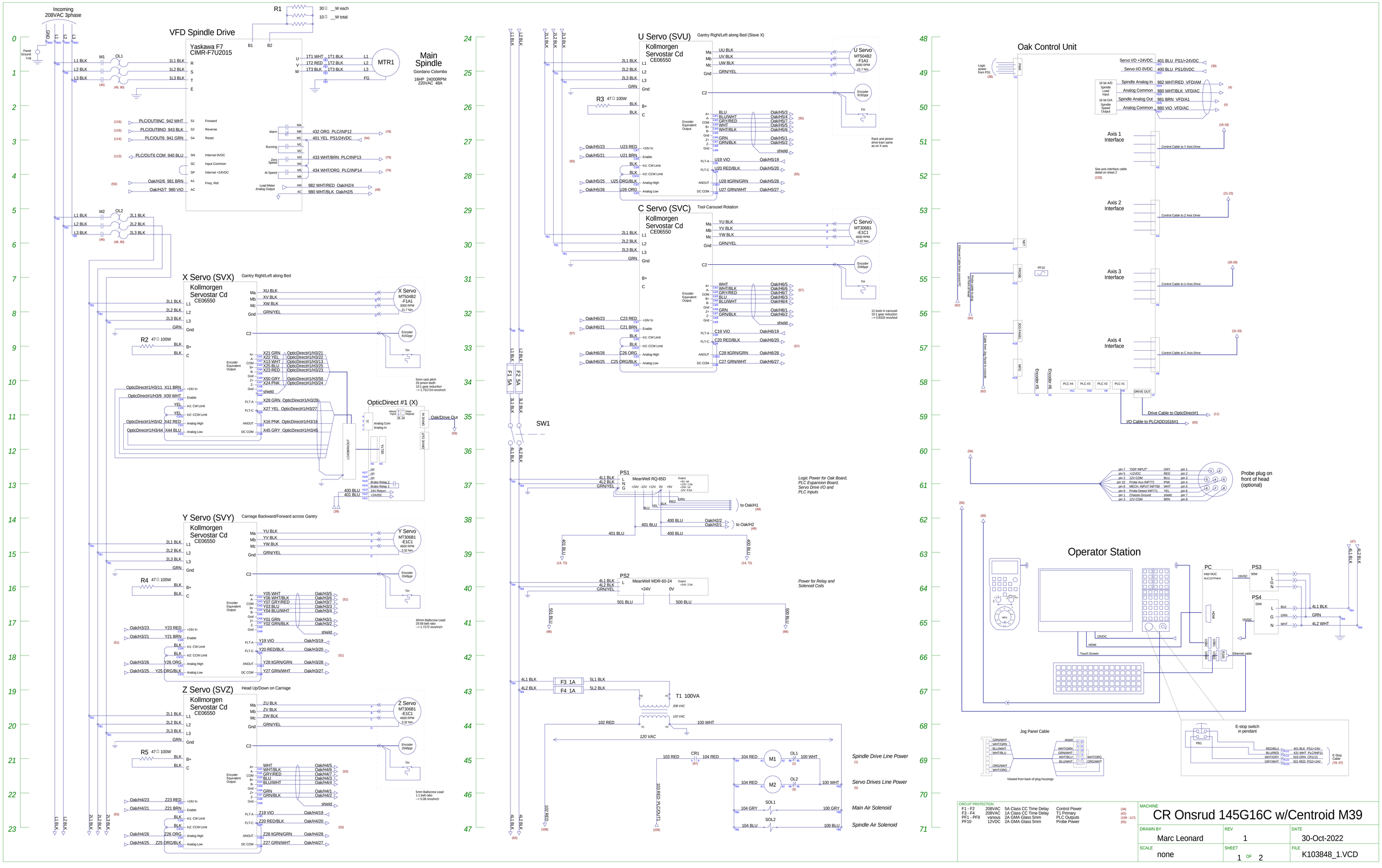
Incoming 208VAC 3phase
VFD Spindle Drive
Yaskawa F7 CIMR-F7U2015
Main Spindle
Giordano Colombo
16HP 24000RPM 220VAC 48A
MTR1
R1
30Ω __W each
10Ω __W total
X Servo (SVX)
Kollmorgen Servostar Cd CE06550
Gantry Right/Left along Bed
X Servo MT504B2 -F1A1 3000 RPM 21.7 Nm
OpticDirect #1 (X)
Y Servo (SVY)
Carriage Backward/Forward across Gantry
Y Servo MT306B1 -E1C1 4600 RPM 3.32 Nm
Z Servo (SVZ)
Head Up/Down on Carriage
Z Servo MT306B1 -E1C1 4600 RPM 3.32 Nm
U Servo (SVU)
Gantry Right/Left along Bed (Slave X)
U Servo MT504B2 -F1A1 3000 RPM 21.7 Nm
C Servo (SVC)
Tool Carousel Rotation
C Servo MT306B1 -E1C1 4600 RPM 3.32 Nm
SW1
PS1
MeanWell RQ-65D
PS2
MeanWell MDR-60-24
Logic Power for Oak Board, PLC Expansion Board, Servo Drive I/O and PLC Inputs
Power for Relay and Solenoid Coils
T1 100VA
Spindle Drive Line Power
Servo Drives Line Power
Main Air Solenoid
Spindle Air Solenoid
Oak Control Unit
Axis 1 Interface
Axis 2 Interface
Axis 3 Interface
Axis 4 Interface
Probe plug on front of head (optional)
Operator Station
PC
PS3
PS4
Touch Screen
Ethernet cable
Jog Panel Cable
E-stop switch in pendant
CIRCUIT PROTECTION
F1 - F2 208VAC 5A Class CC Time Delay Control Power
F3 - F4 208VAC 1A Class CC Time Delay T1 Primary
PF1 - PF9 various 2A GMA Class 5mm PLC Outputs
PF10 12VDC 2A GMA Glass 5mm Probe Power
MACHINE
CR Onsrud 145G16C w/Centroid M39
DRAWN BY
Marc Leonard
REV
1
DATE
30-Oct-2022
SCALE
none
SHEET
1 OF 2
FILE
K103848_1.VCD