

APPENDIX A ELECTRICAL INFORMATION

WM4500 Standard Rev. A5.00-A5.01

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&MEA+L1.L4/16	Schematic multi-line	Control Pg 13	11/15/2024	SDC
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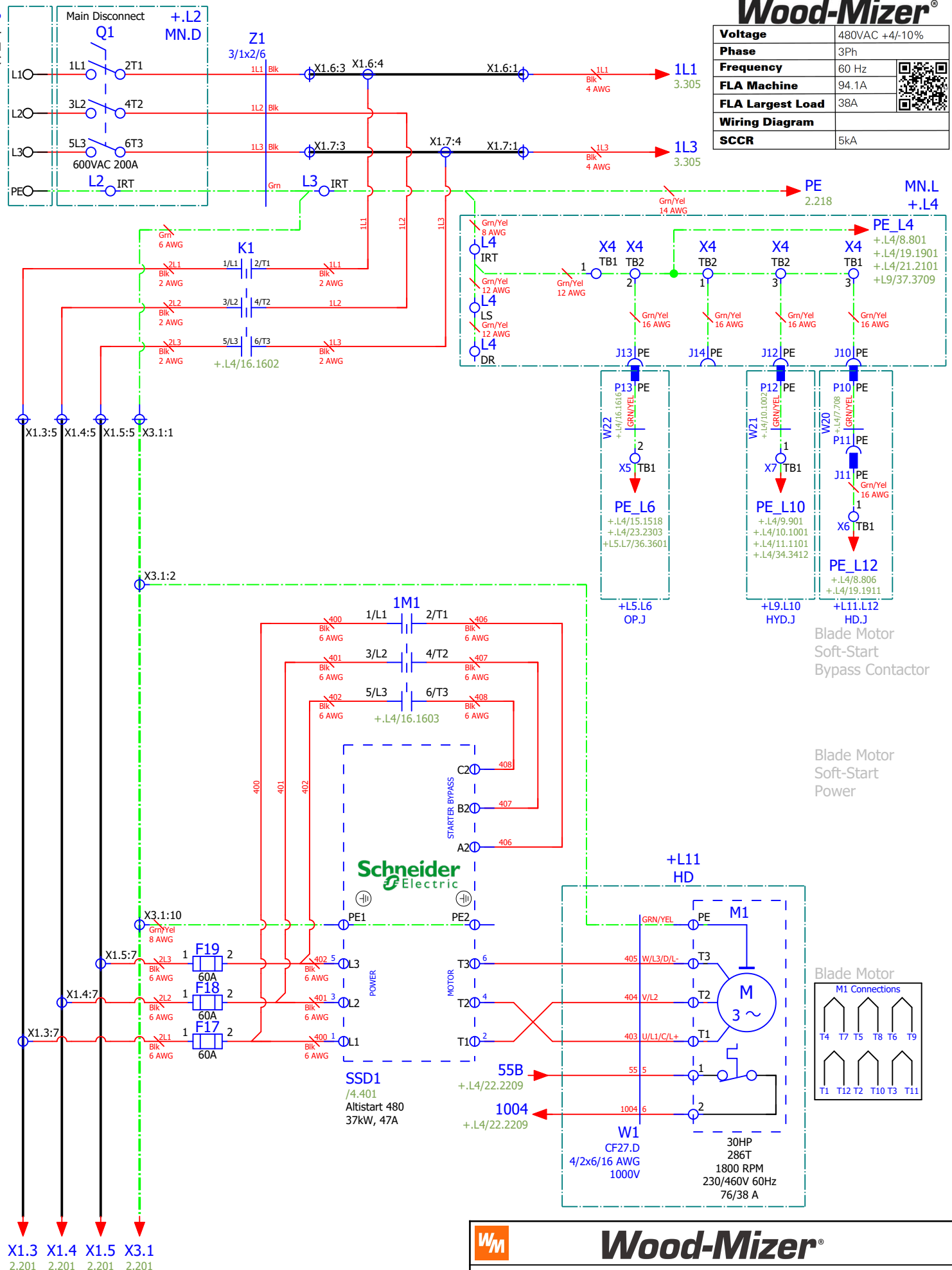
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&MEA+L9/39	Schematic multi-line	Pull Down Clamp 2	11/15/2024	SDC
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&MEA+Docs/D4	Terminal line-up diagram	Terminal line-up diagram	11/15/2024	SDC
&MEA+Docs/D5	Terminal line-up diagram	Terminal line-up diagram	11/15/2024	SDC
&MEA+Docs/D6	Terminal line-up diagram	Terminal line-up diagram	11/15/2024	SDC
&MEA+Docs/D7	Terminal line-up diagram	Terminal line-up diagram	11/15/2024	SDC
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&MEA+Docs/E2	Cable overview	Cable overview	11/15/2024	SDC
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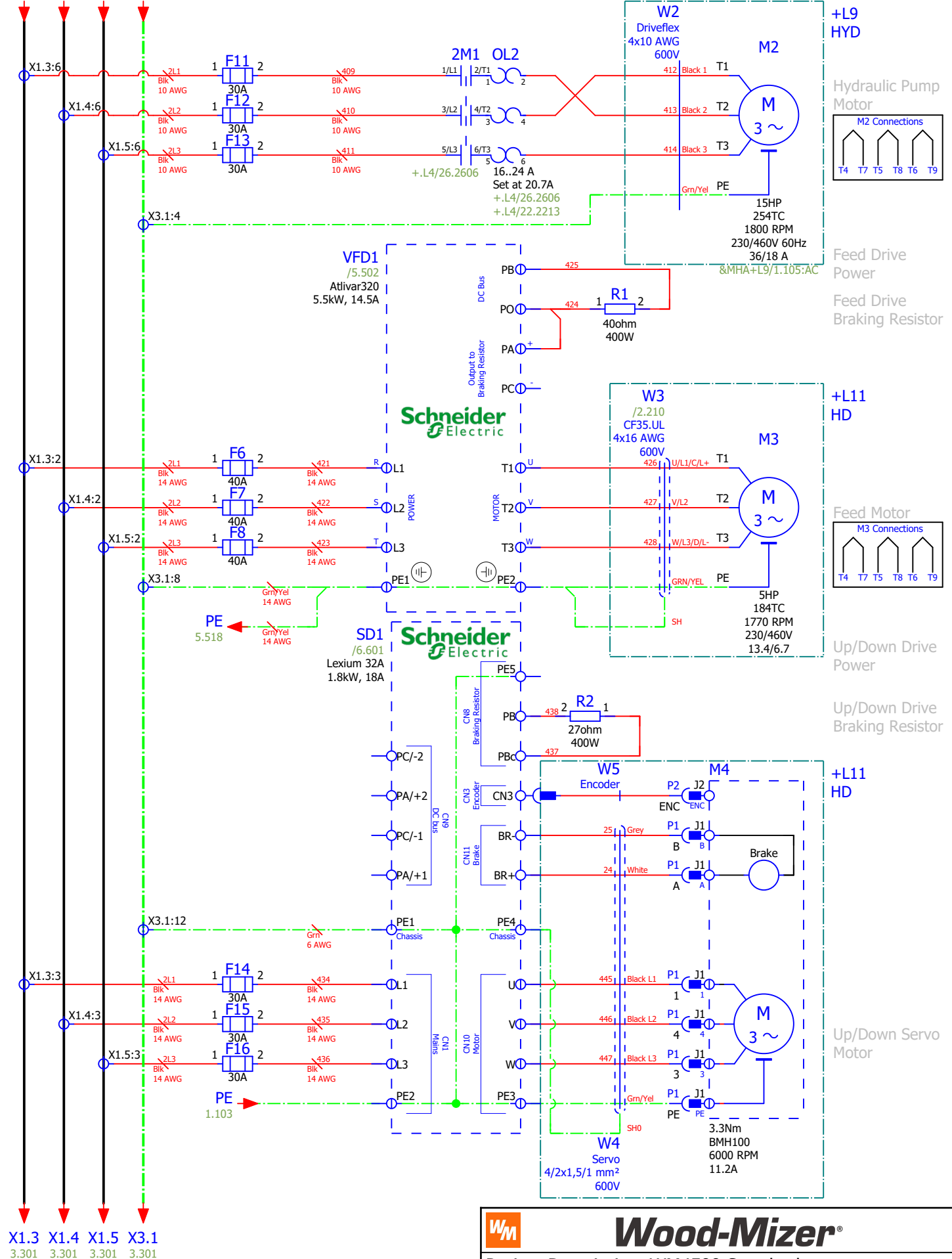
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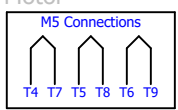
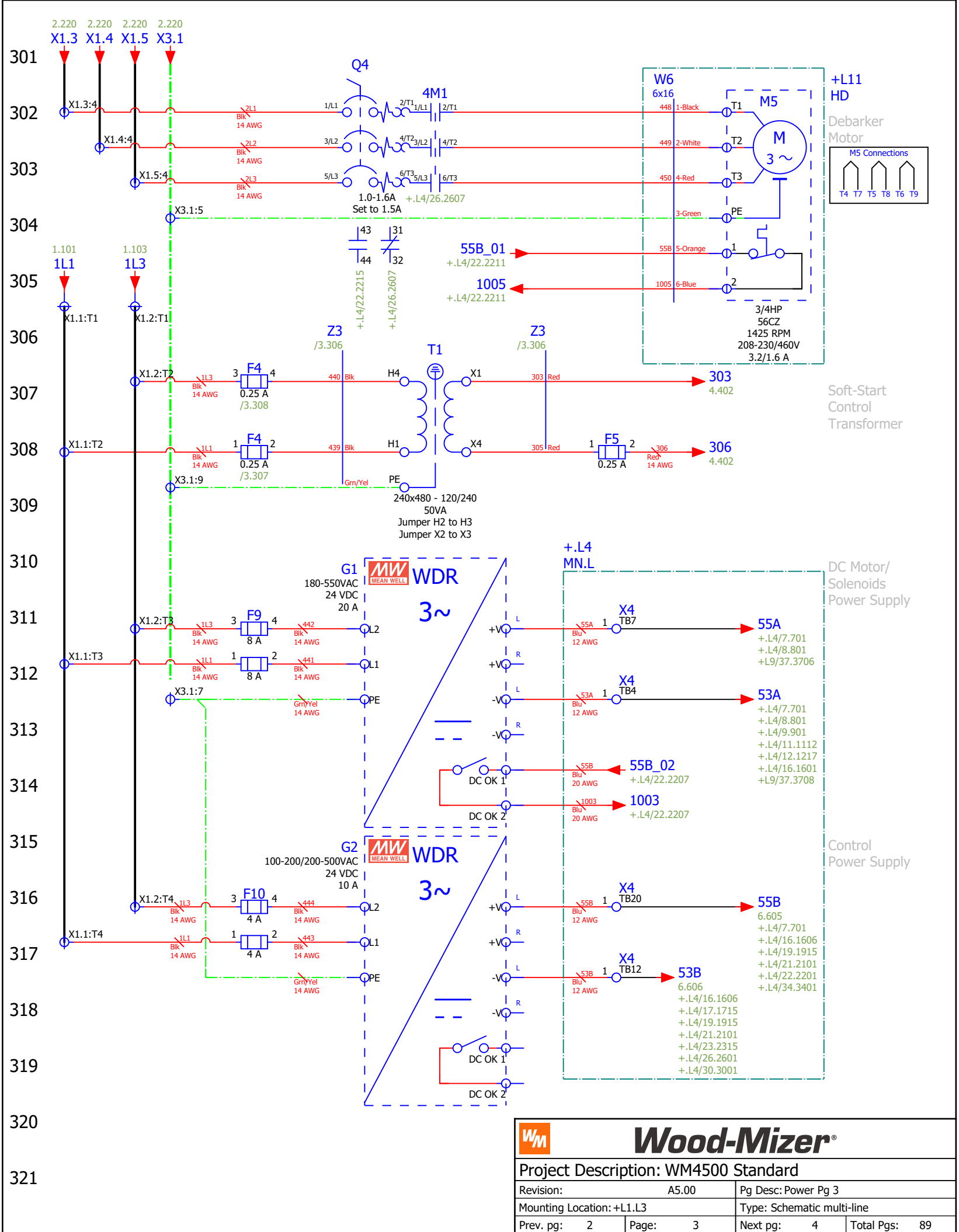
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8/6/18	A1.00	Release to production	JRF	SDC
4/26/19	A2.00	Added Pull Down Clamp Functions	JRF	SDC
12/6/19	A3.00	Full Bed Extension	JRF	SDC
2/13/24	A4.03	Blade Motor Soft Start (SSD1) - OBS of 069933 replaced with 069933-A1	MM	JRF
4/25/24	A4.04	Modbus network update for termination resistor	JRF	***
11/15/24	A5.00	Release new belt conveyor design. Conveyor motor hoses lengthened. ECN's 39502 & 39571	SDC	***

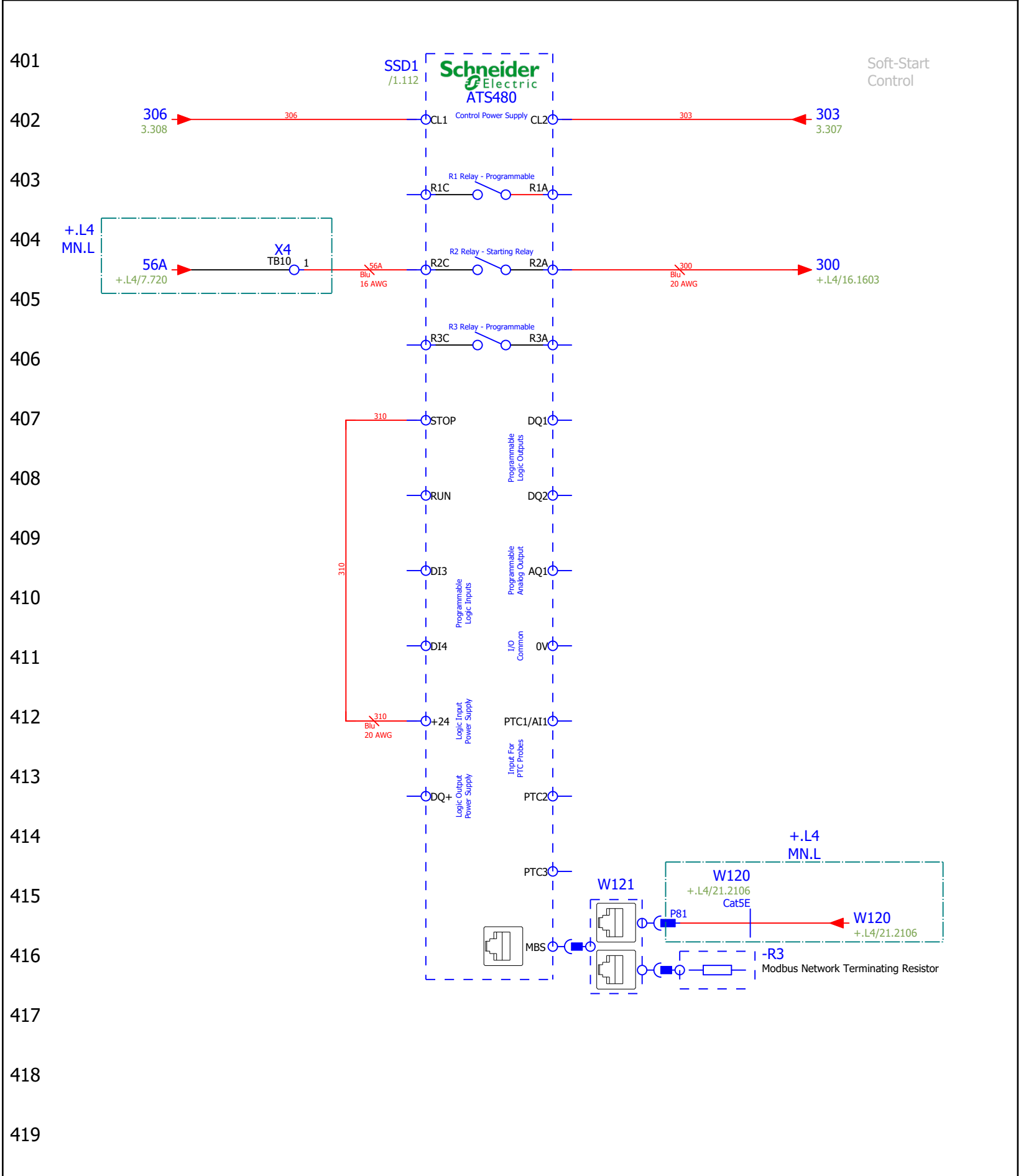
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Phase	3Ph
Frequency	60 Hz
FLA Machine	94.1A
FLA Largest Load	38A
Wiring Diagram	
SCCR	5kA



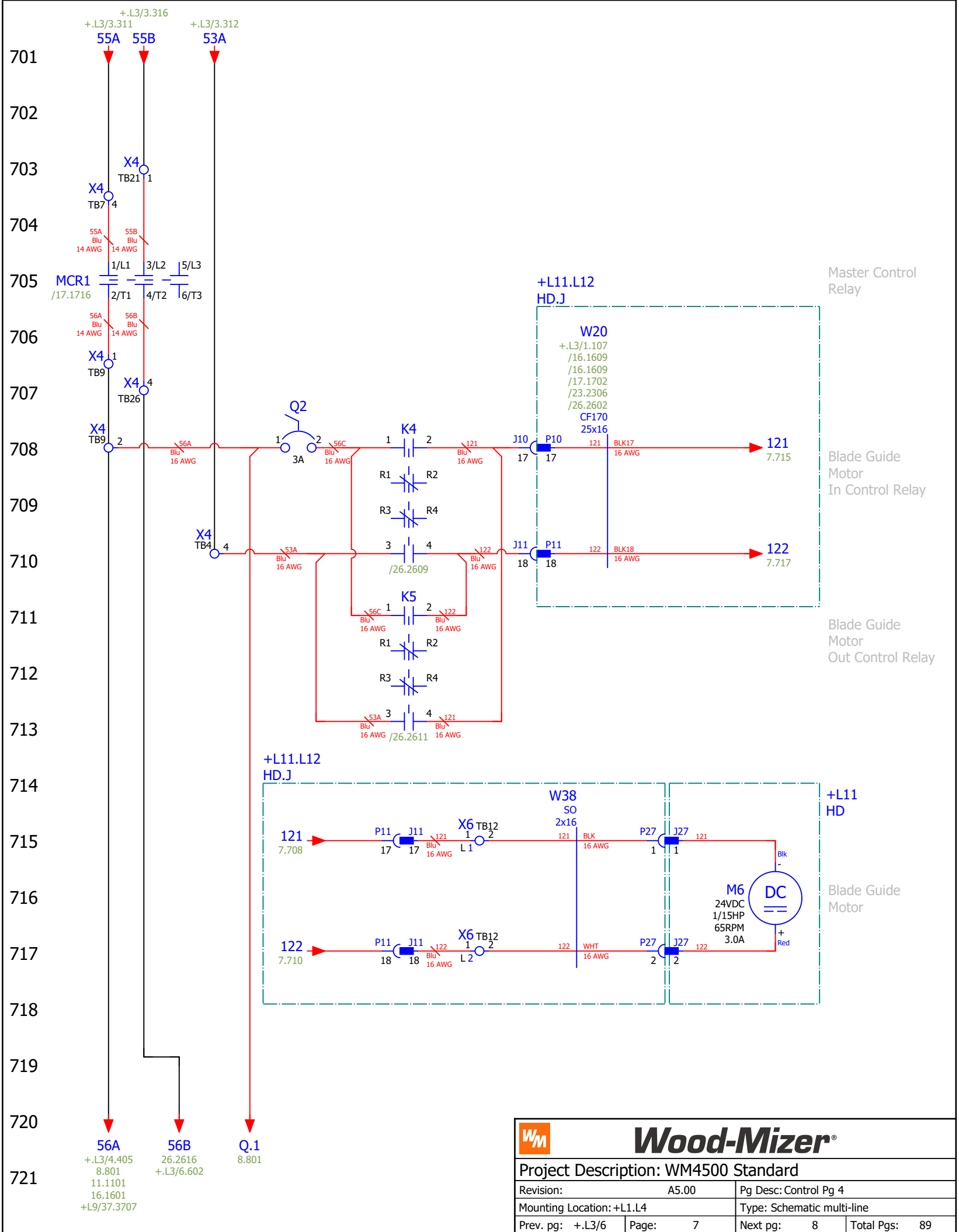
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X1.3 X1.4 X1.5 X3.1

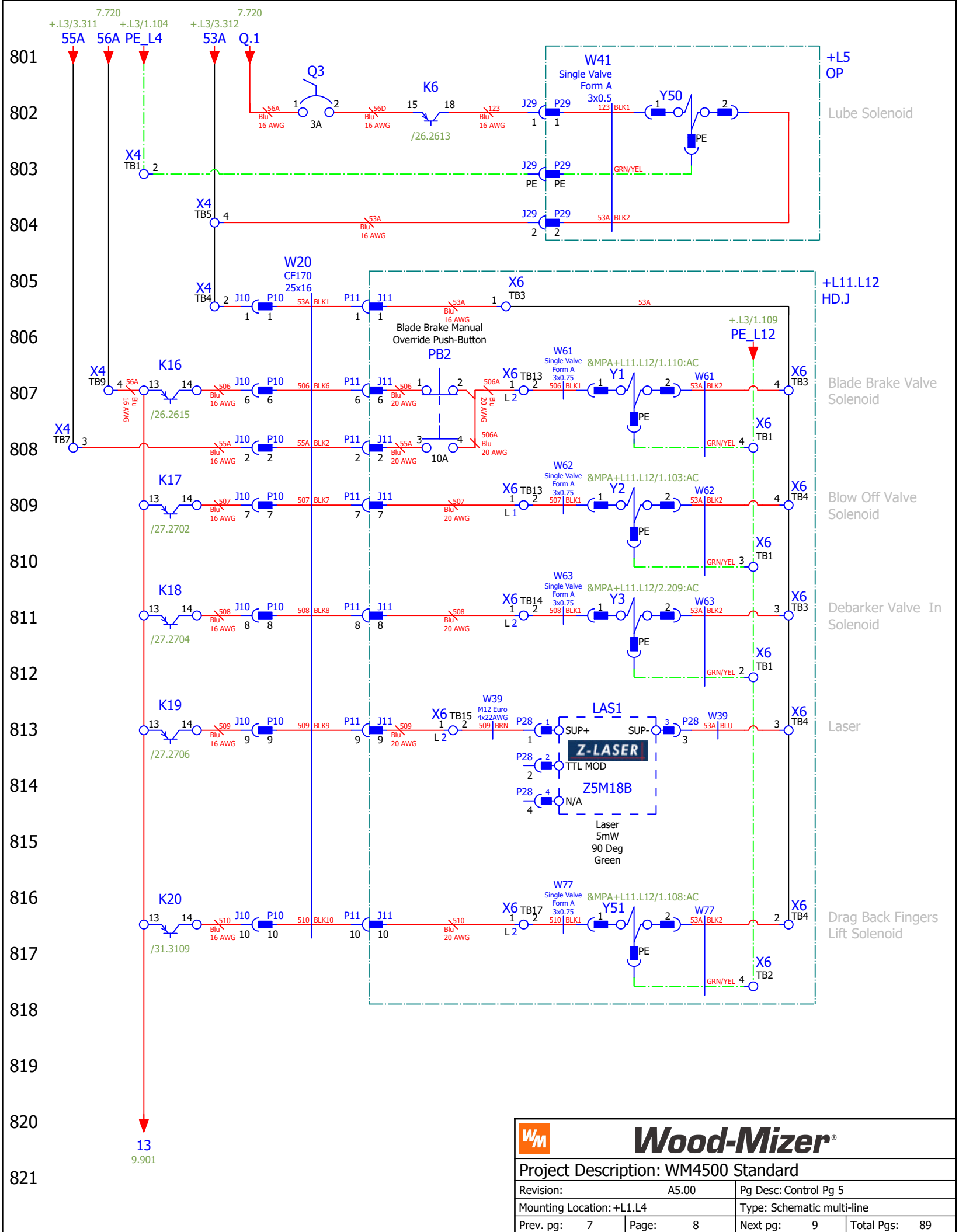


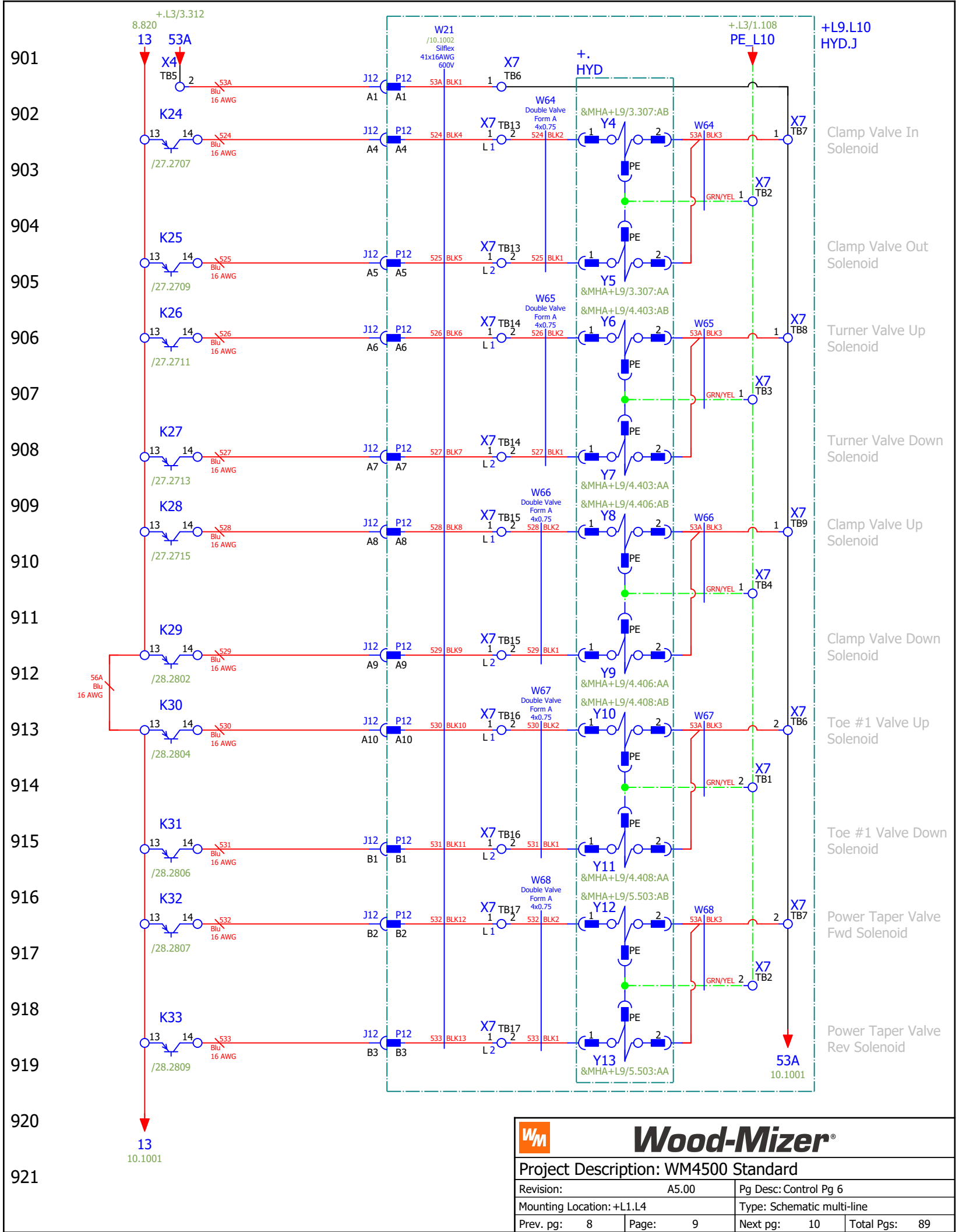








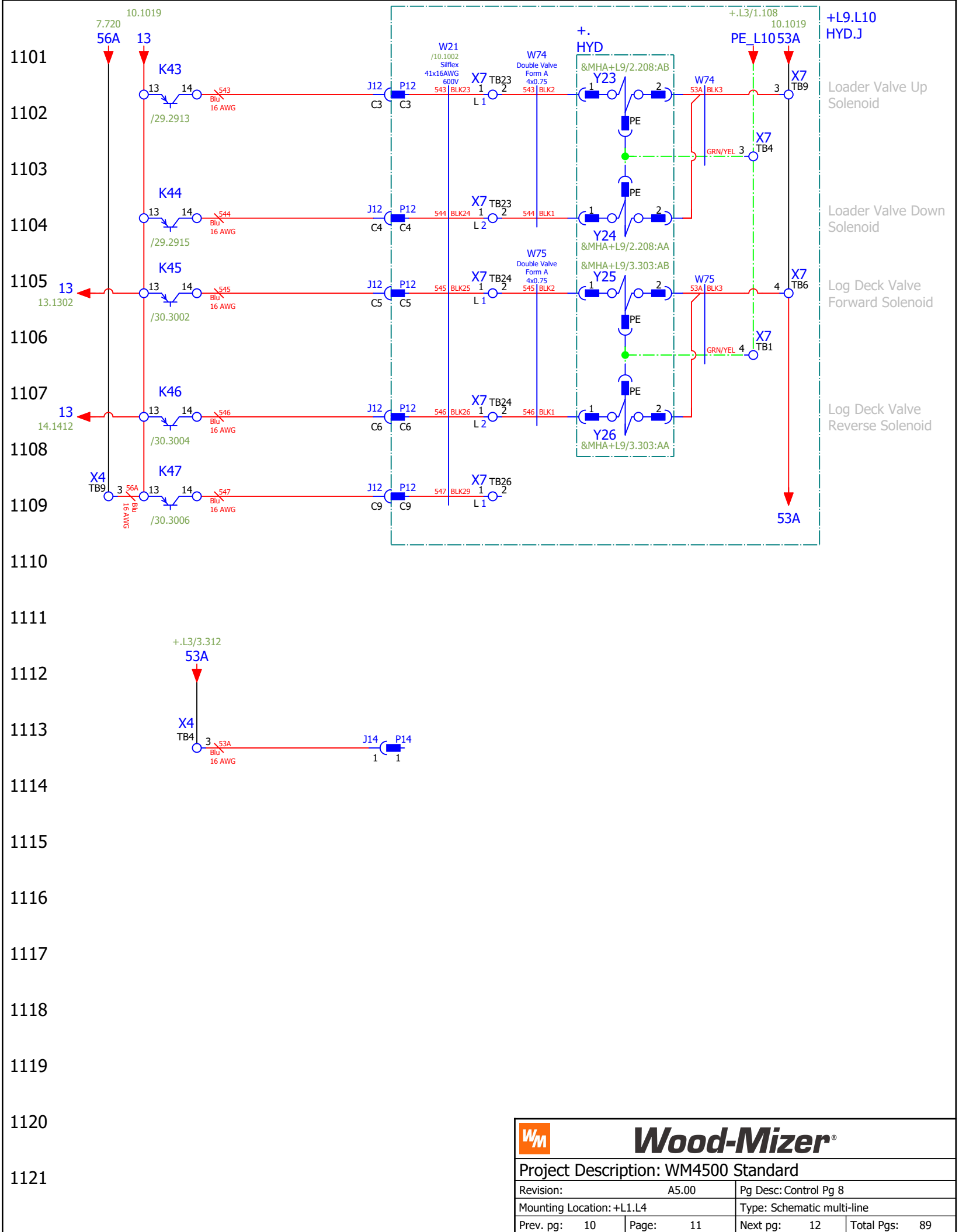




Wood-Mizer®

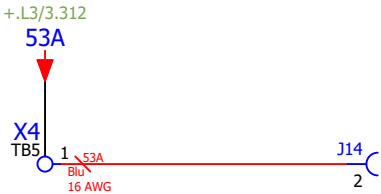
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Revision:	A5.00	Pg Desc:	Control Pg 6
Mounting Location:	+L1.L4	Type:	Schematic multi-line
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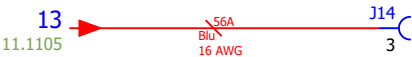
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Left Mostly
Empy Intentionally
For Optional
Bed Extension



WM Wood-Mizer®			
Project Description: WM4500 Standard			
Revision: A5.00		Pg Desc: Control Pg 9	
Mounting Location: +L1.L4		Type: Schematic multi-line	
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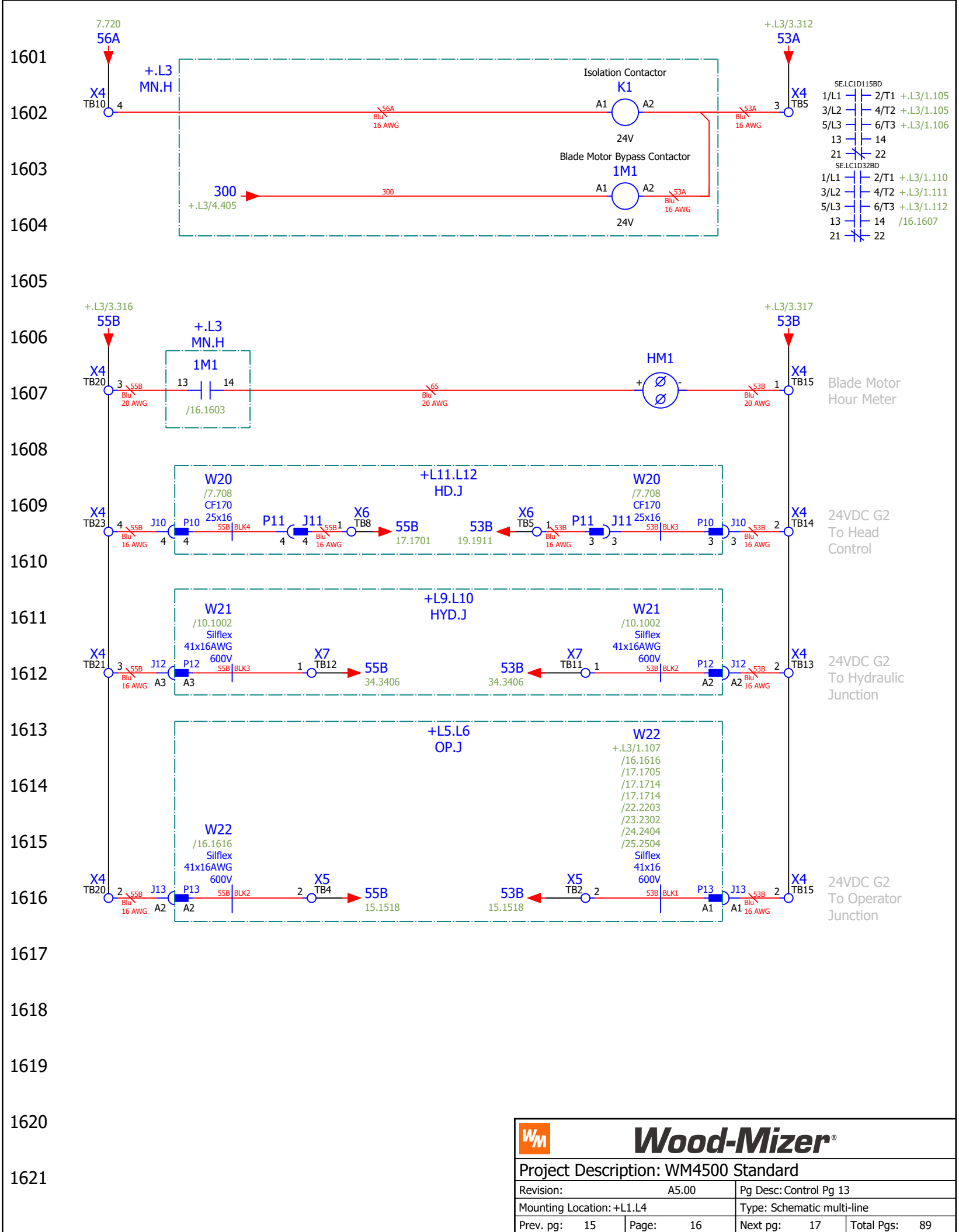


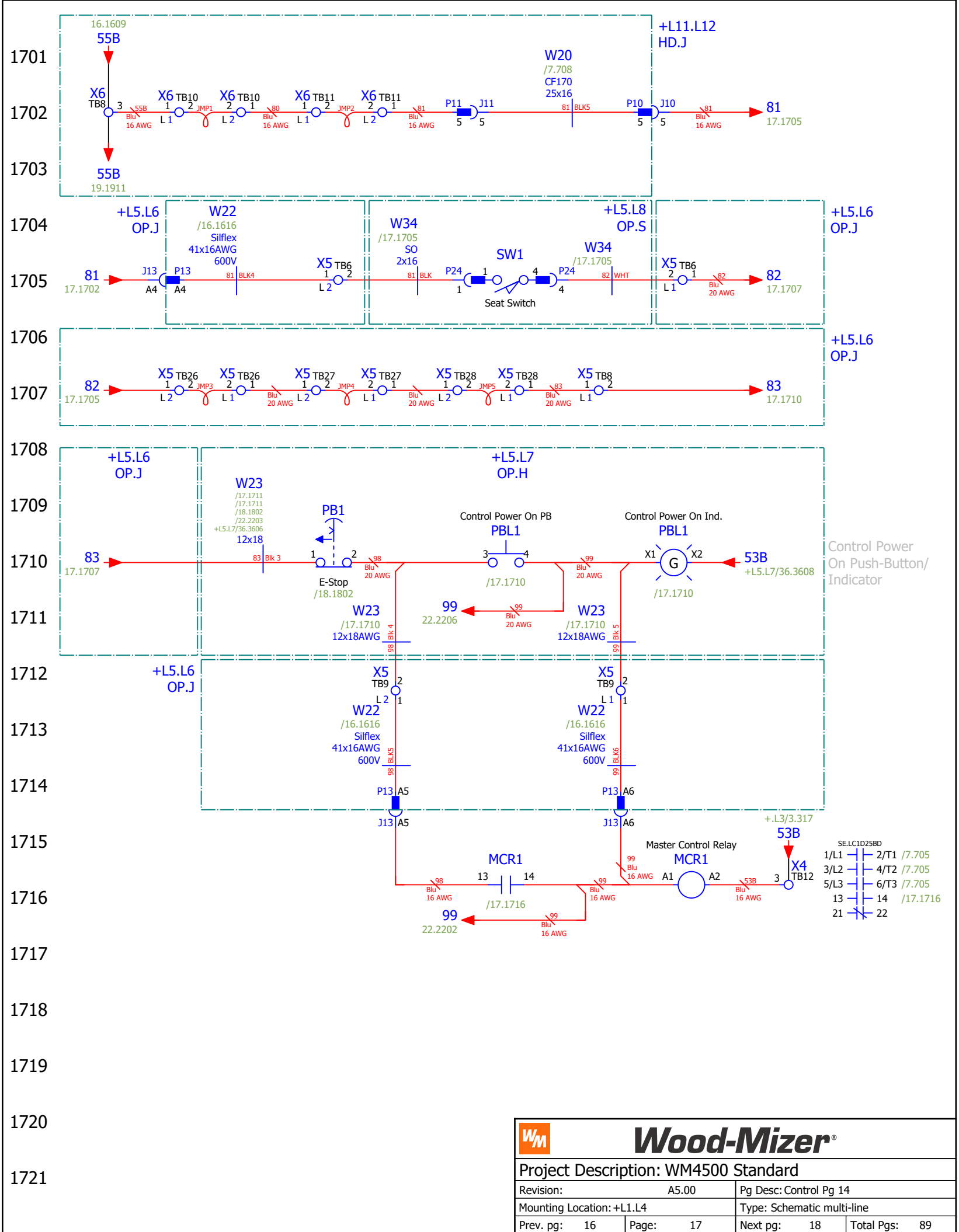
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For Optional
Bed Extension

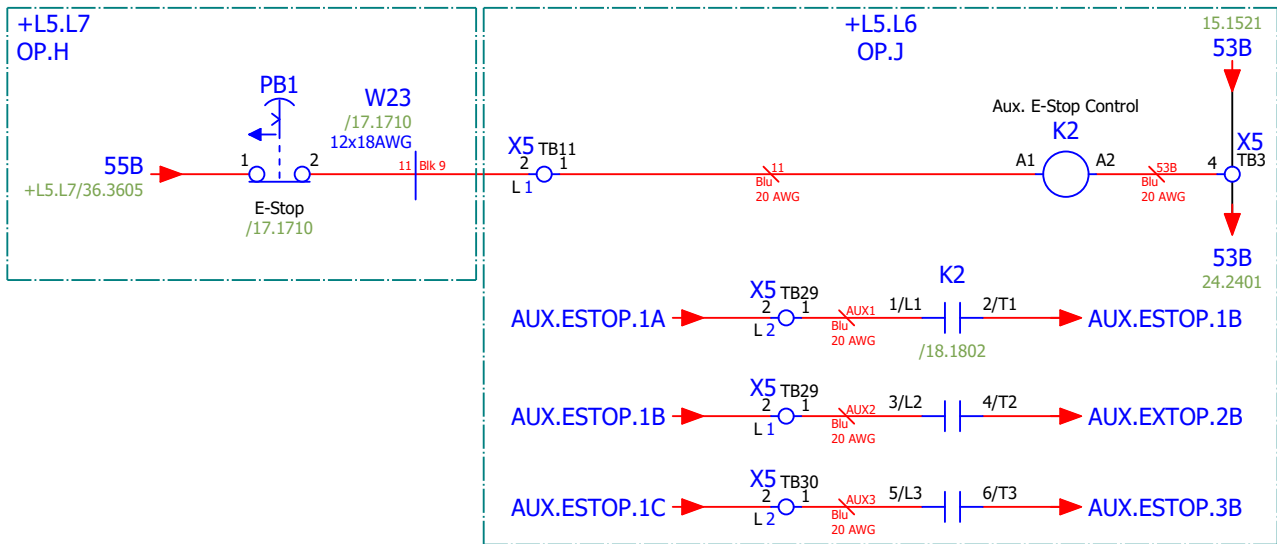
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Left Mostly
Empy Intentionally
For Optional
Bed Extension







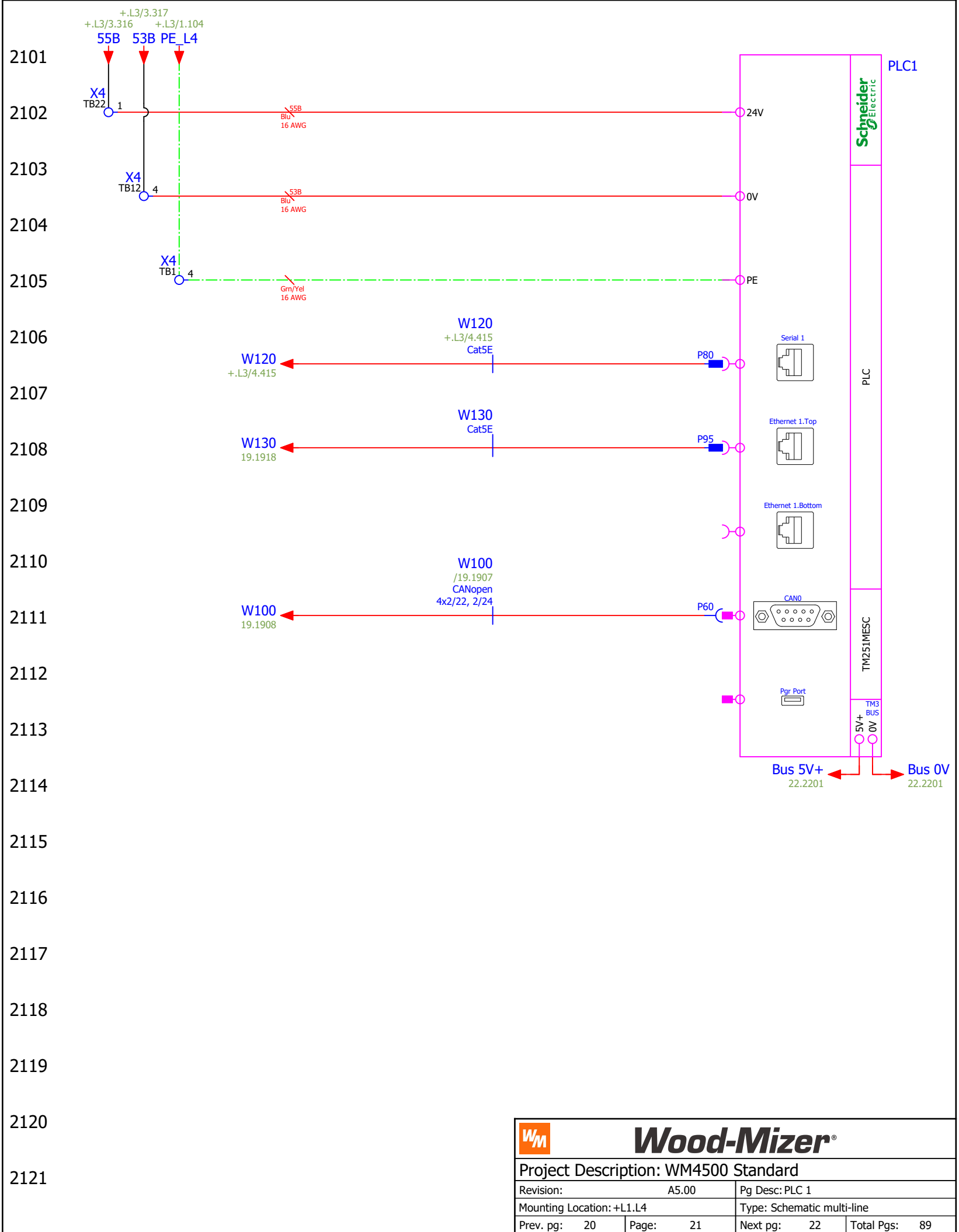


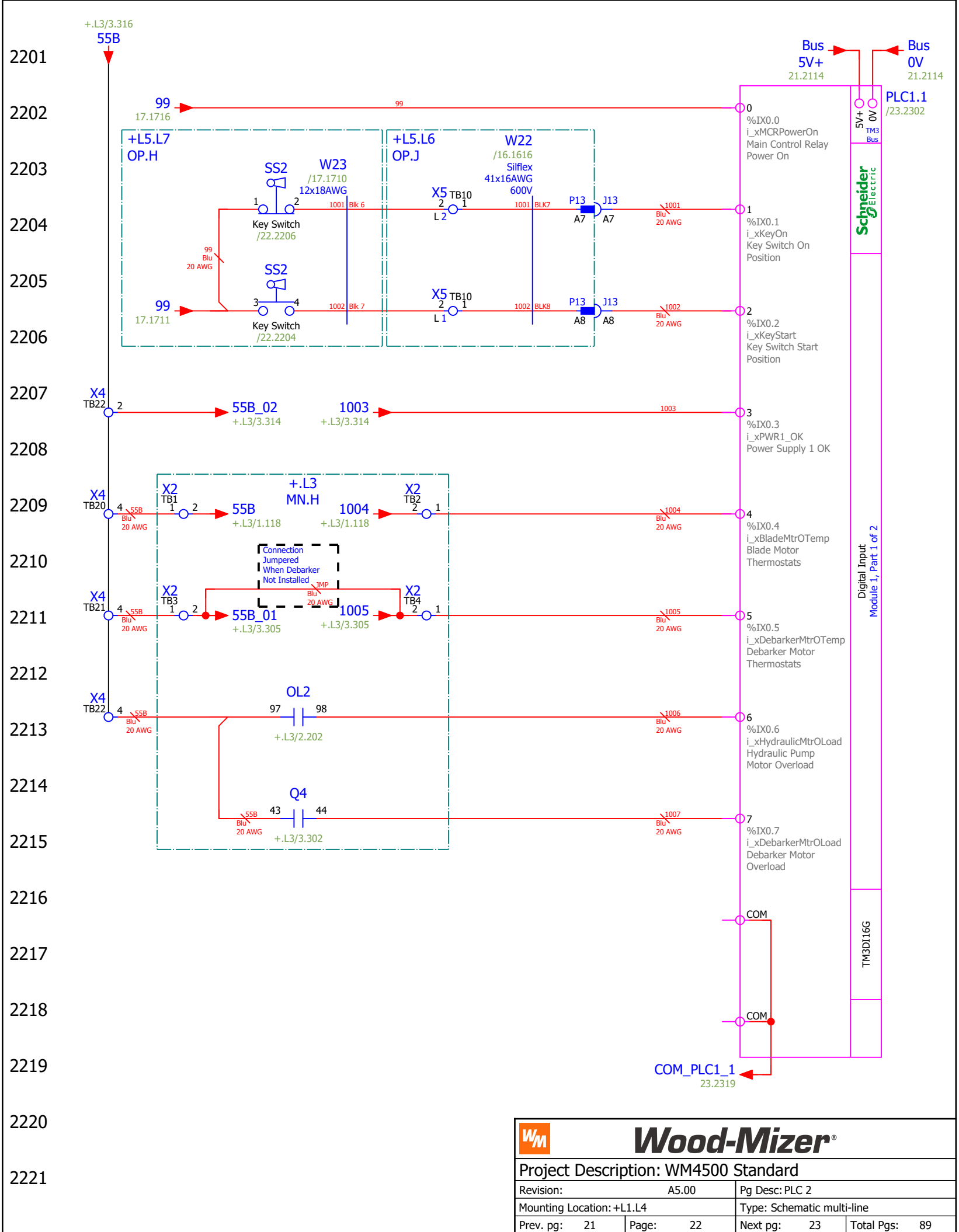
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 3/L2 4/T2 /18.1805
 5/L3 6/T3 /18.1805
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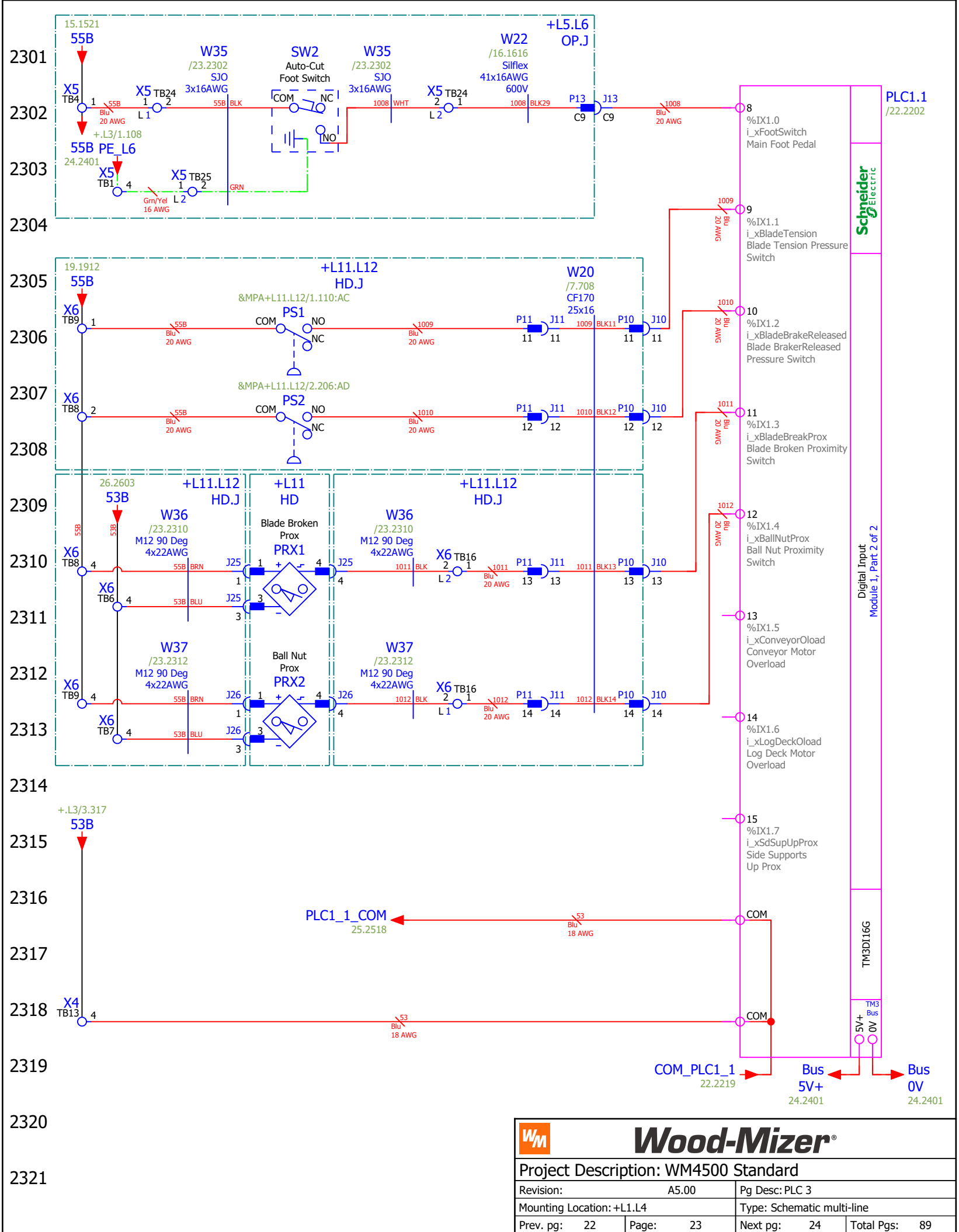
Auxiliary Equipment
 E-Stop Control 1

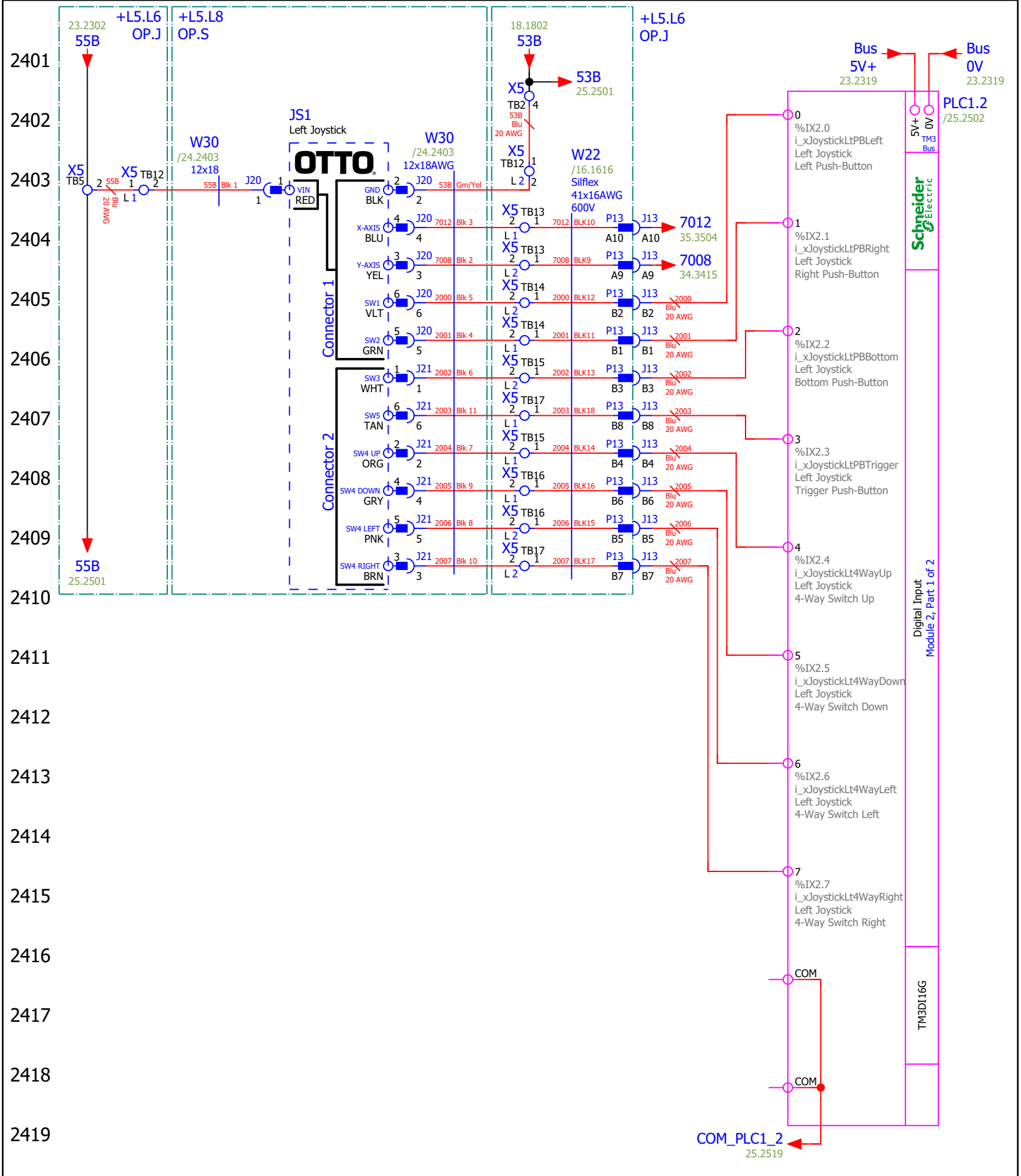
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 E-Stop Control 2

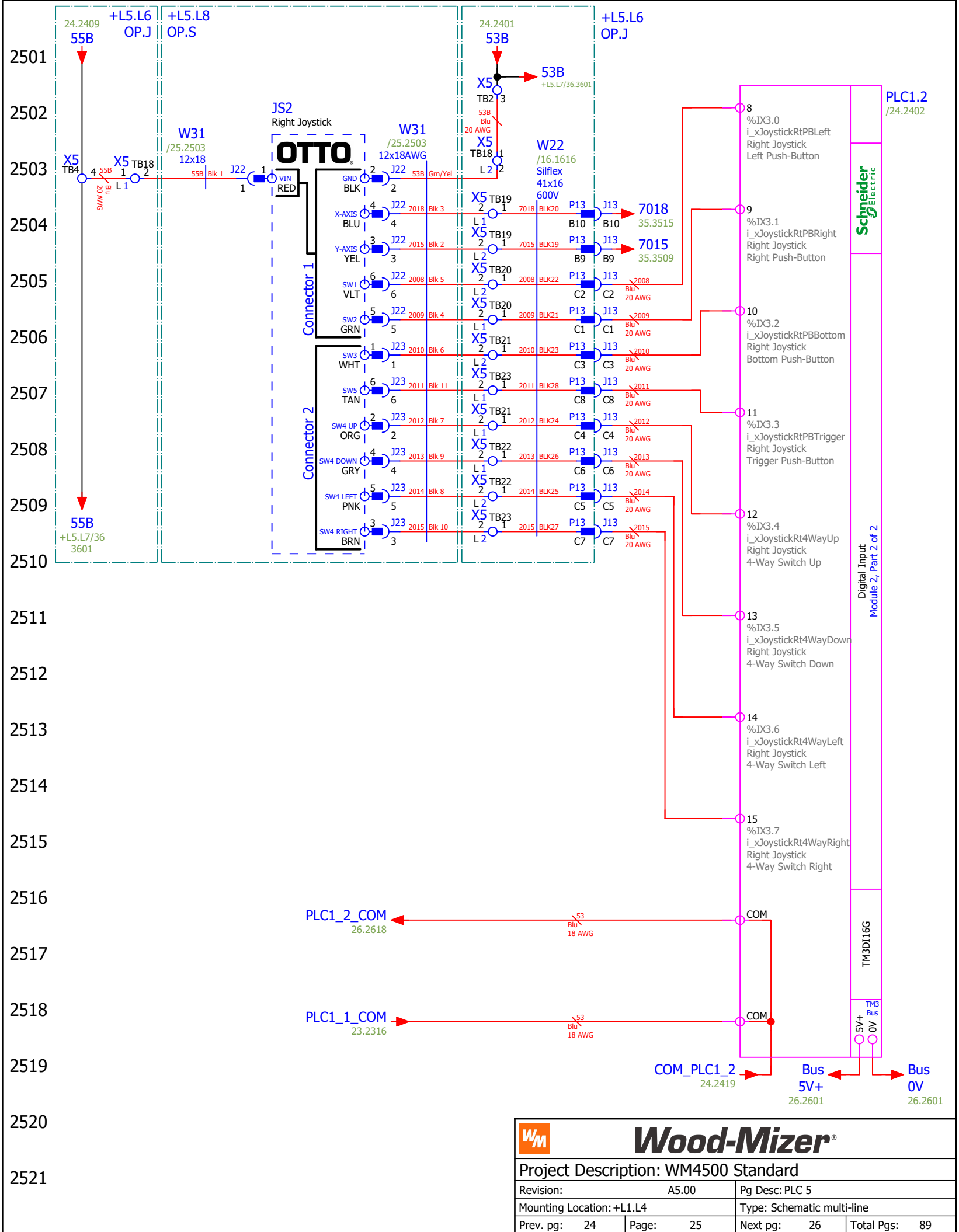
Auxiliary Equipment
 E-Stop Control 3











Revision: A5.00		Pg Desc: PLC 6	
Mounting Location: +L1.L4		Type: Schematic multi-line	
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PLC1.3
/26.2602

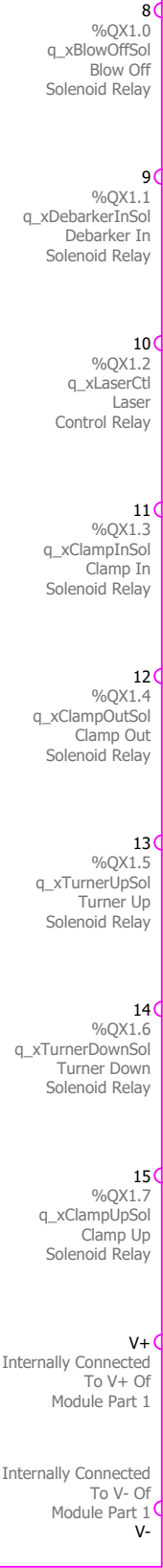
Schneider
Electric

Digital Output
Module 3, Part 2

TM3DQ16TG

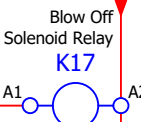
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5V+
0V

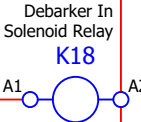


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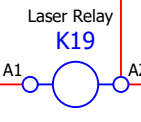
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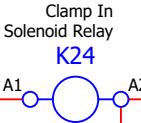
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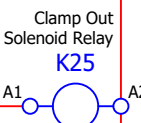
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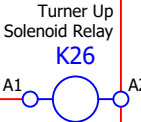
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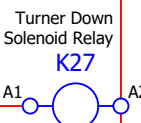
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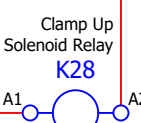
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WAGO.857-724
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WAGO.857-724
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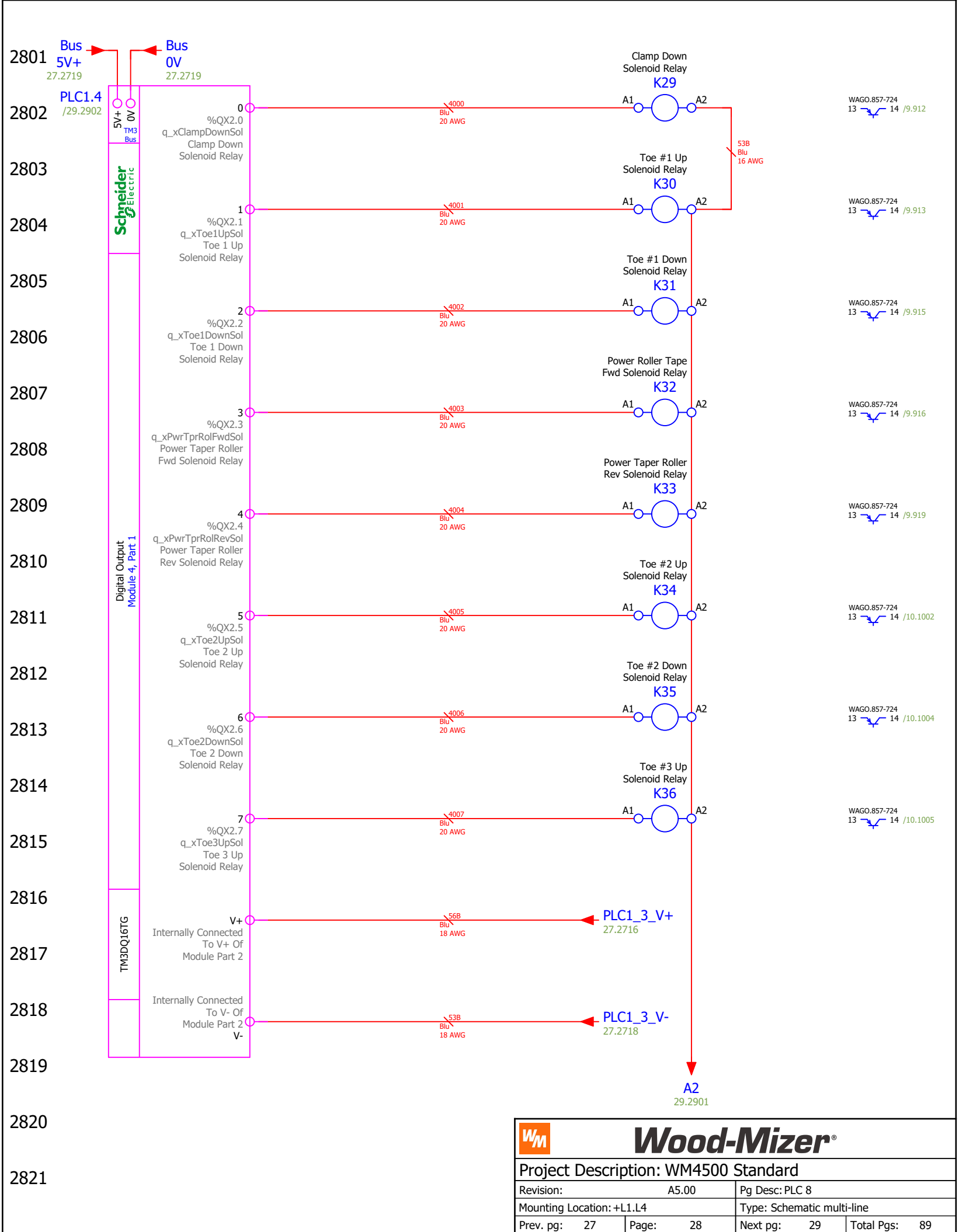
Bus 5V+ 28.2801
Bus 0V 28.2801

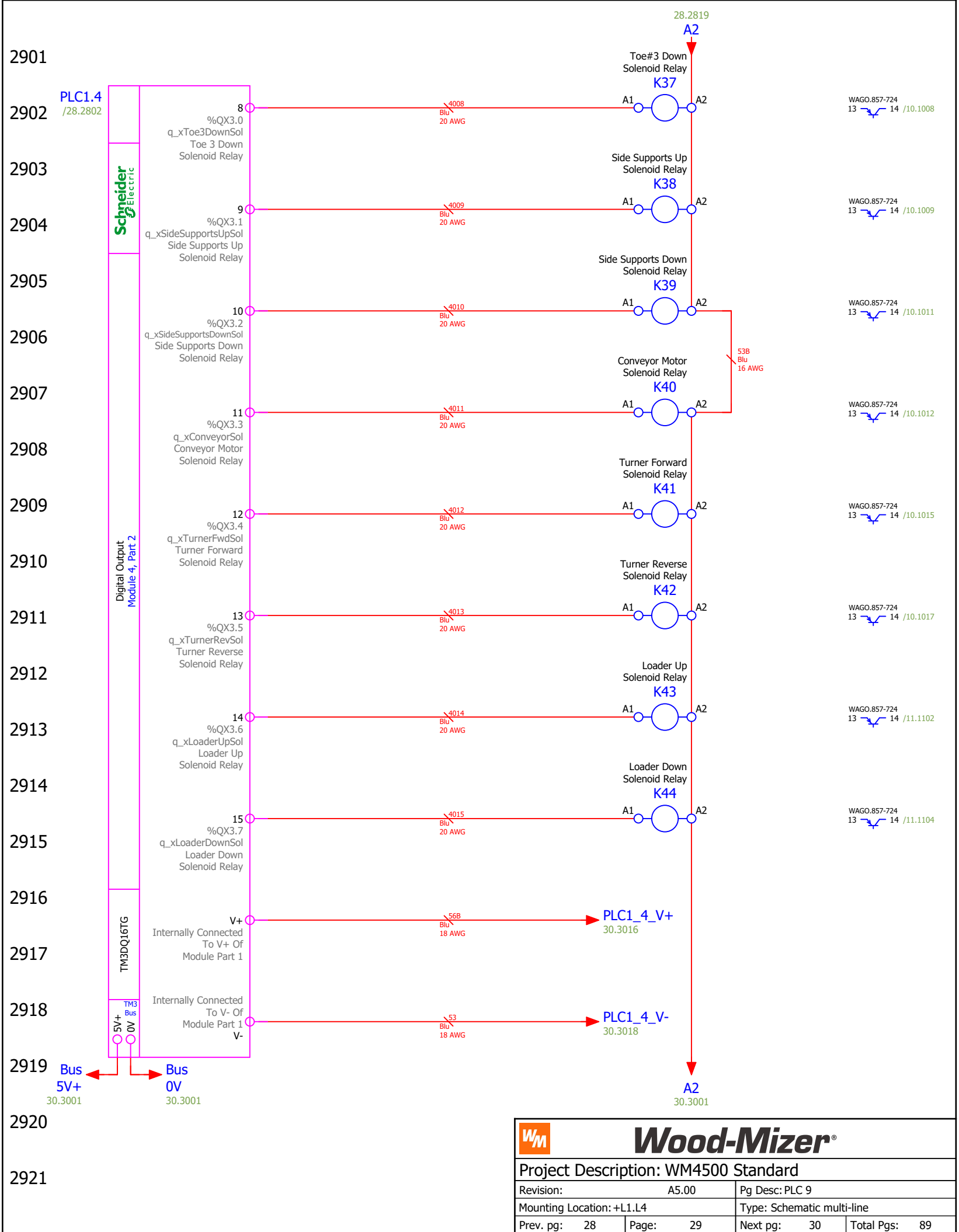


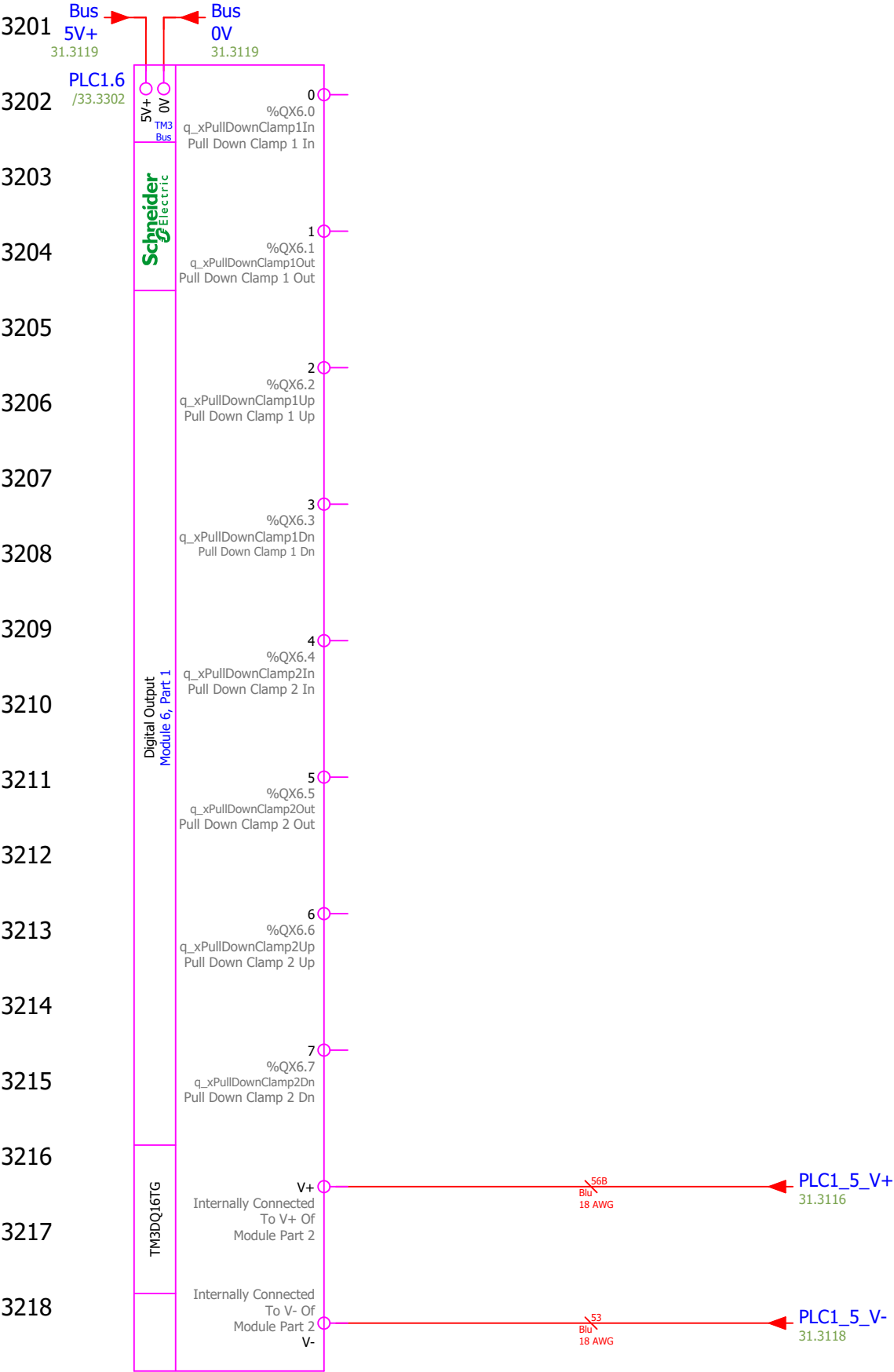
Wood-Mizer®

Project Description: WM4500 Standard

Revision:	A5.00	Pg Desc:	PLC 7
Mounting Location:	+L1.L4	Type:	Schematic multi-line
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PLC1.6
/32.3202

Schneider
Electric

Digital Output
Module 6, Part 2

TM3DQ16TG

TM3
Bus
5V+
0V

8
%QX7.0

9
%QX7.1

10
%QX7.2

11
%QX7.3

12
%QX7.4

13
%QX7.5

14
%QX7.6

15
%QX7.7

V+
Internally Connected
To V+ Of
Module Part 1

Internally Connected
To V- Of
Module Part 1
V-

PLC1_6_V-
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S3
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18 AWG

Bus
5V+
34.3401

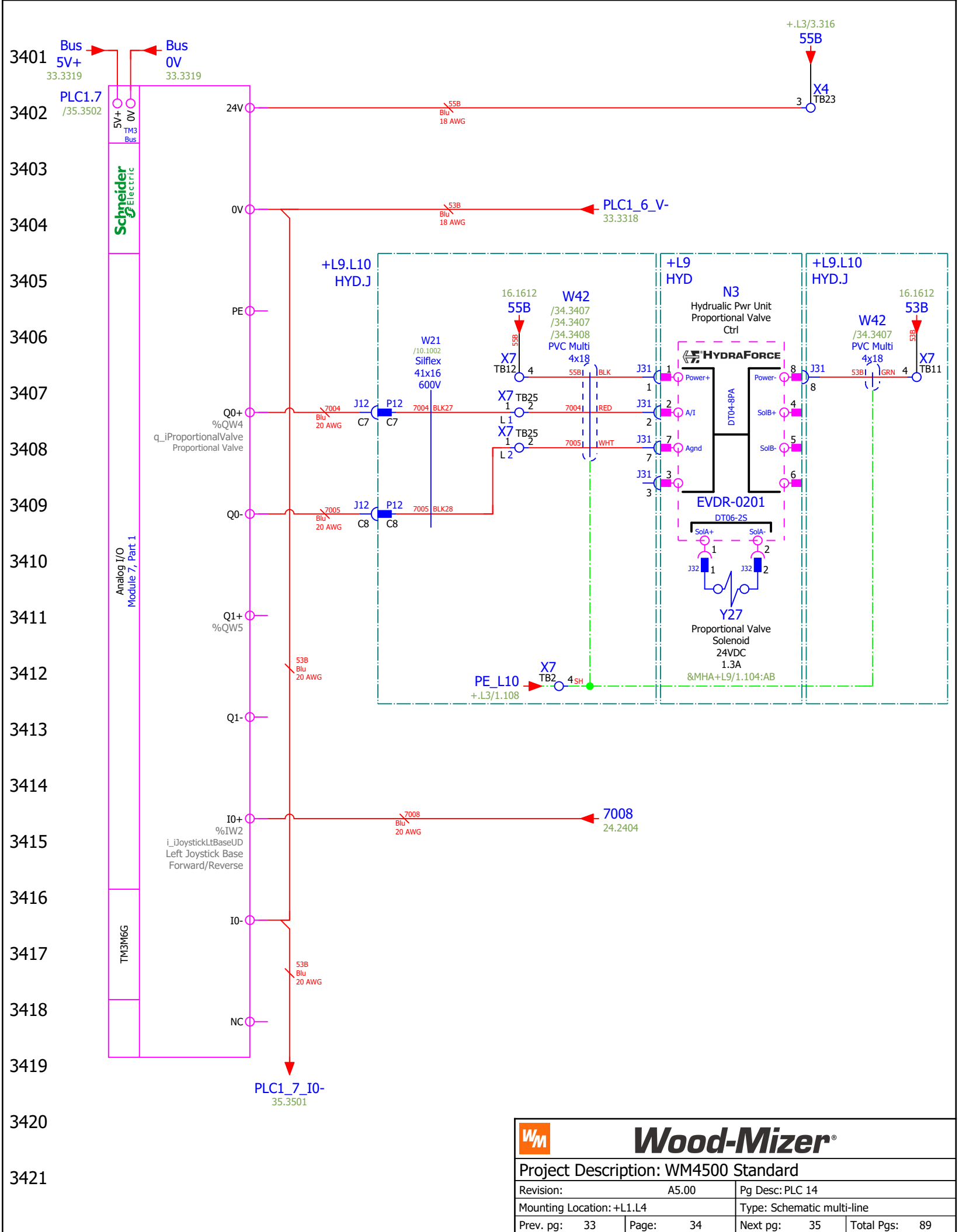
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0V
34.3401

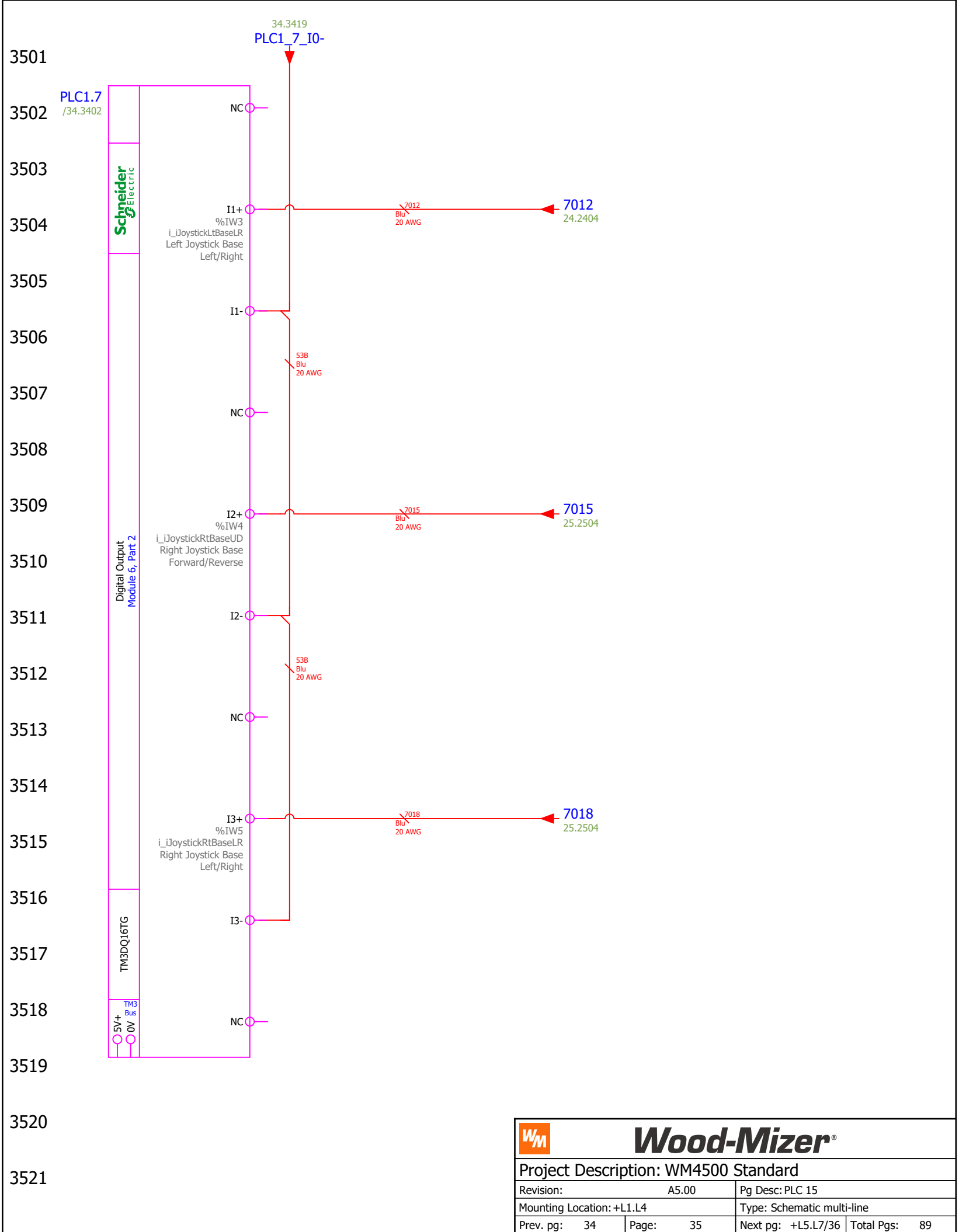


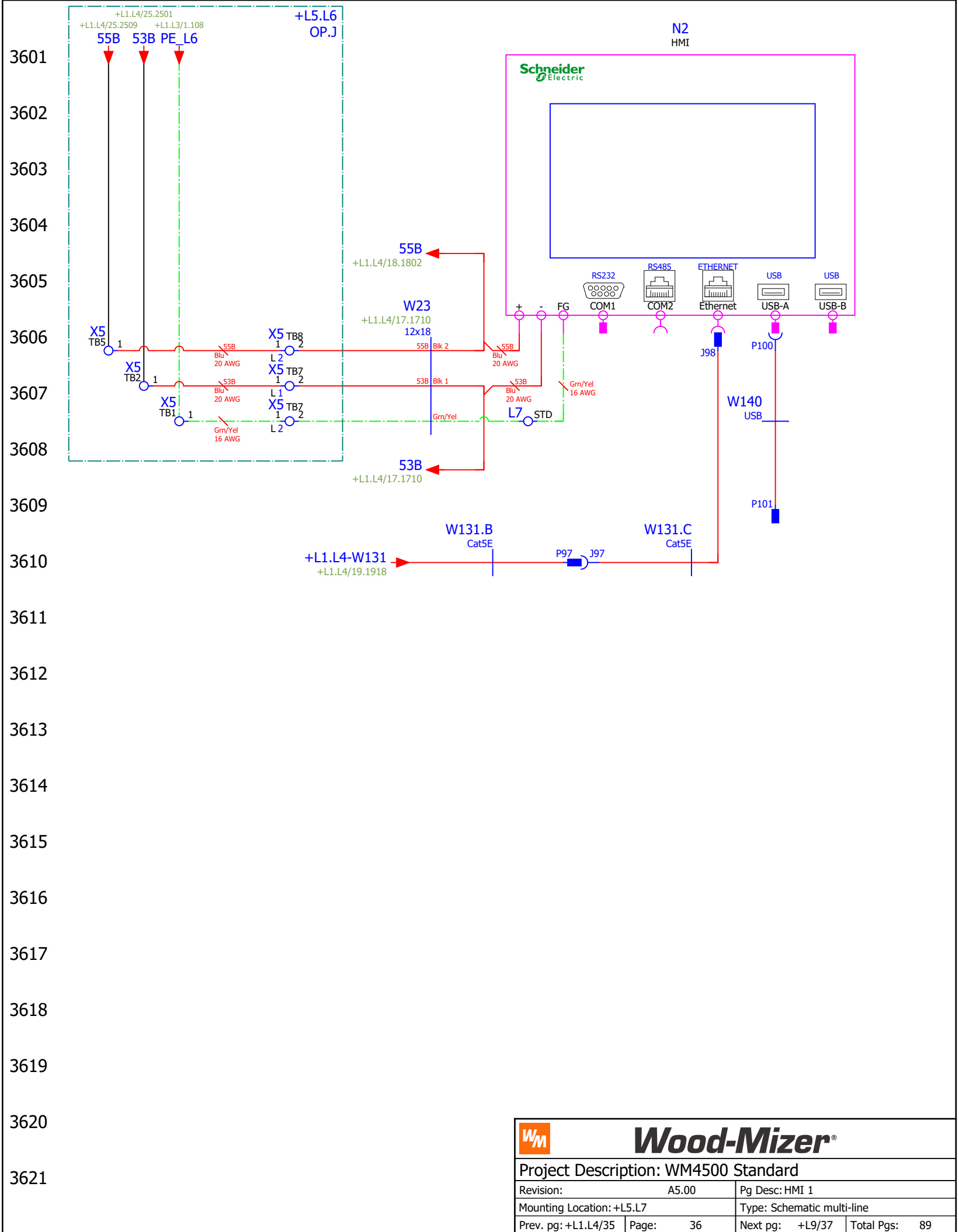
Wood-Mizer®

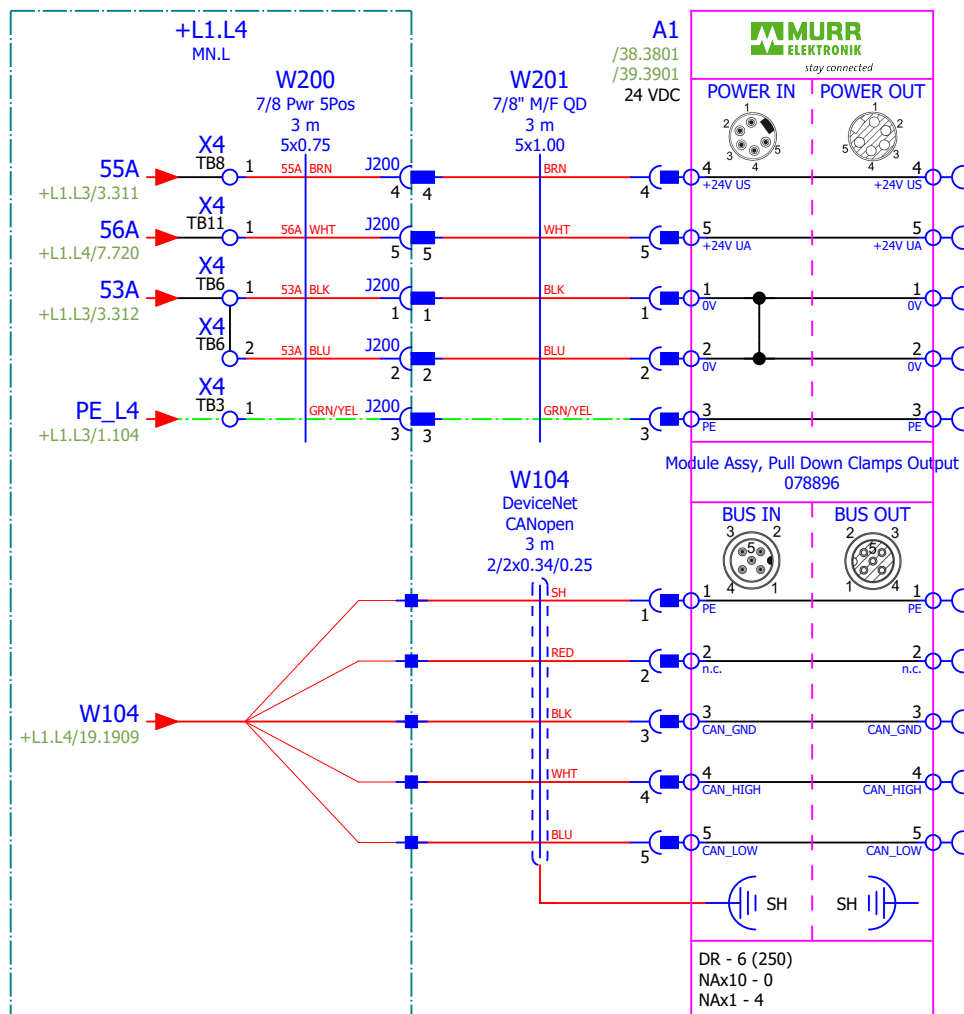
Project Description: WM4500 Standard

Revision: A5.00		Pg Desc: PLC 13	
Mounting Location: +L1.L4		Type: Schematic multi-line	
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Project Description: WM4500 Standard

Revision: A5.00 Pg Desc: Pull Down Clamp Module

Mounting Location: +L9 Type: Schematic multi-line

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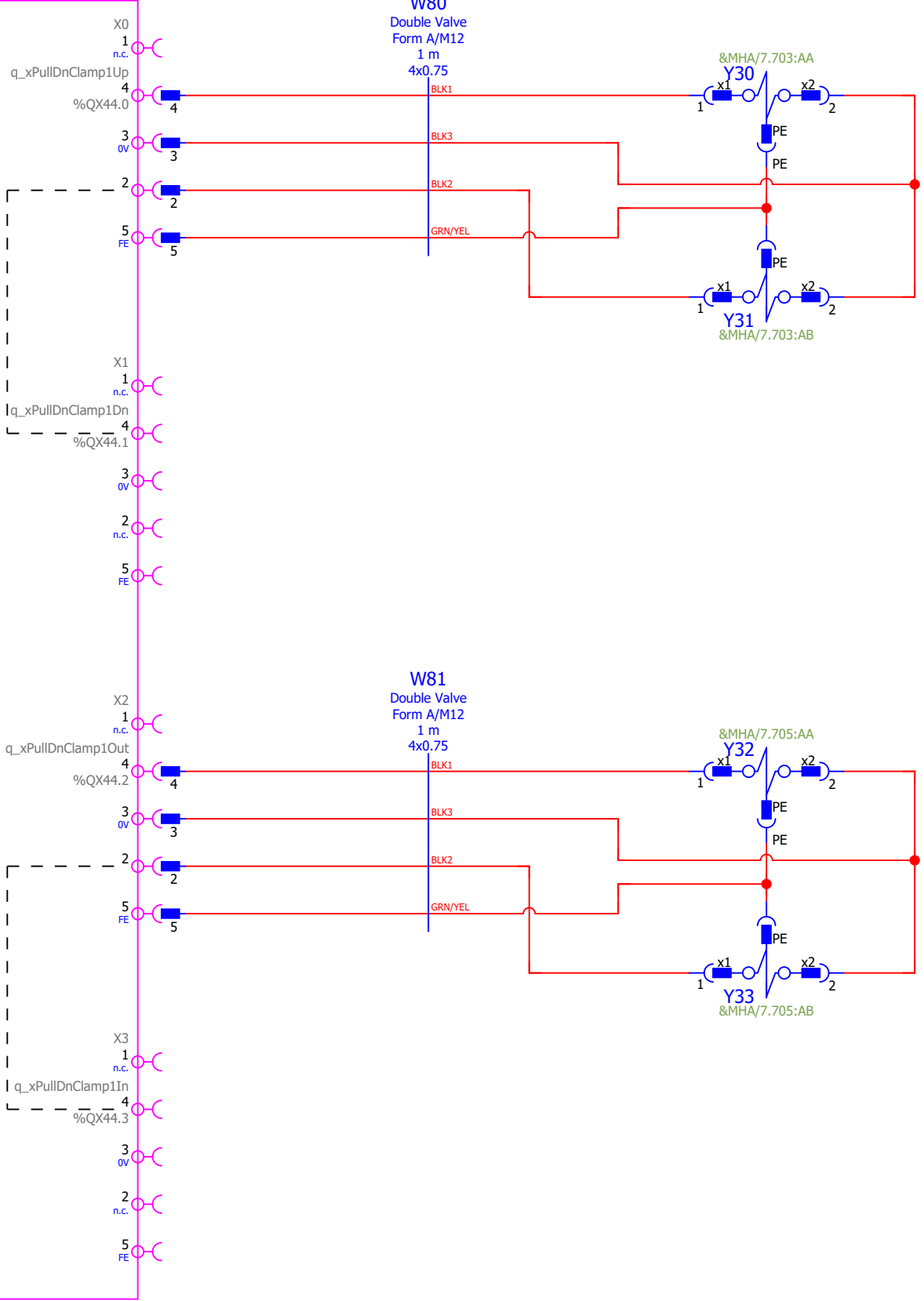
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3817
3818
3819
3820
3821

A1
/37.3705
24 VDC



Module Assy, Pull Down Clamps Output

078896



Pull Down
Clamp 1
Up

Pull Down
Clamp 1
Down

Pull Down
Clamp 1
Out

Pull Down
Clamp 1
In

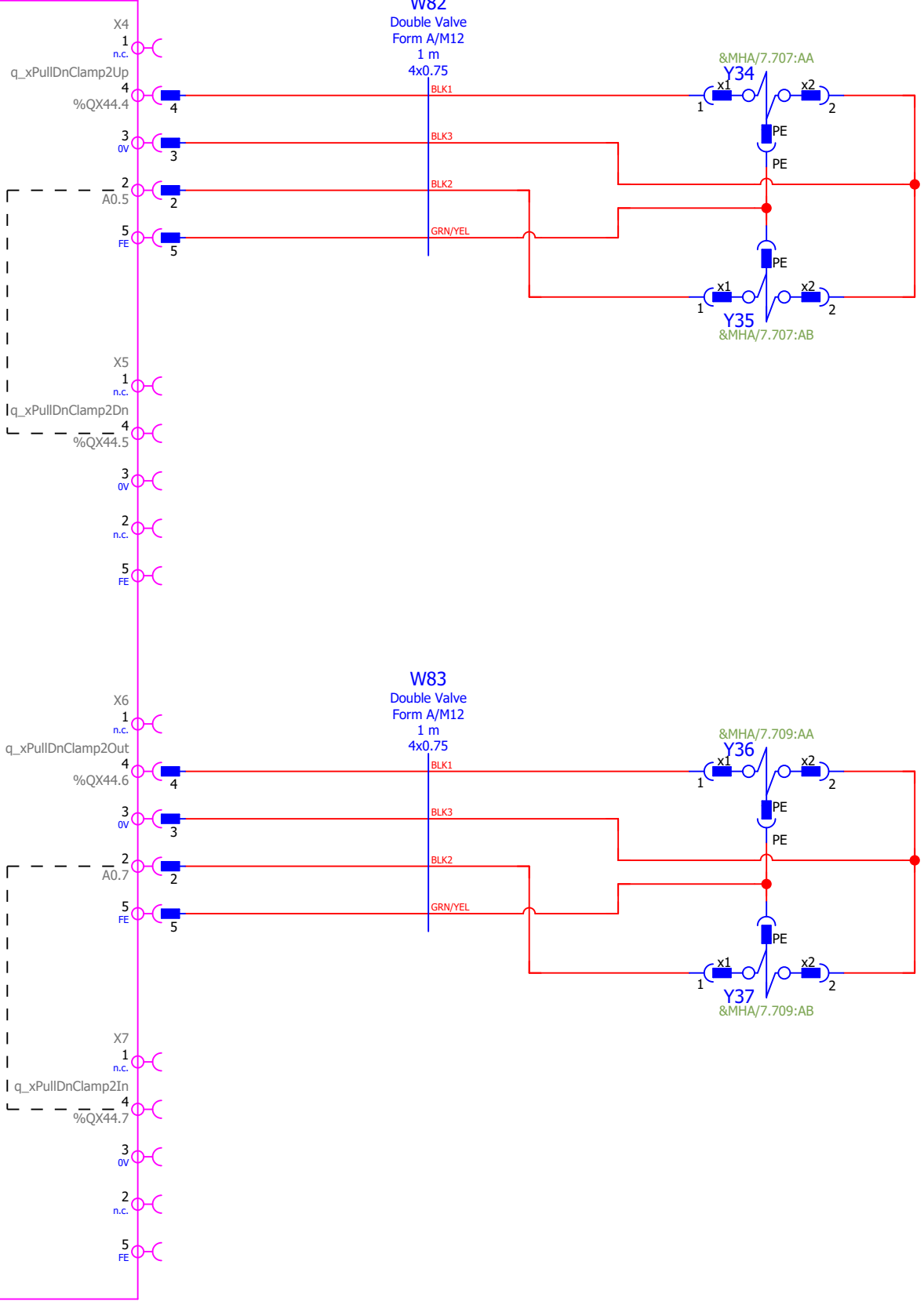
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3919
3920
3921

A1
/37.3705
24 VDC



Module Assy, Pull Down Clamps Output

078896



Pull Down
Clamp 2
Up

Pull Down
Clamp 2
Down

Pull Down
Clamp 2
Up

Pull Down
Clamp 2
Down

Device Tag/Parts List

WM_PARTS_LIST-Manual

Device tag	Function	Wood-Mizer Part Number	Wood-Mizer Description	Qty.	X-Ref
1M1	Blade Motor Bypass Contactor	052465	Contactor, 32A 3P 24VDC Coil	1	+L1.L4/16.1603
2M1	Hydraulic Pump Motor Contactor	069866	Contactor, 25A 3P 24V Low Pwr Coil	1	+L1.L4/26.2606
4M1	Debarker Motor Contactor	024890	Contactor, 9A 3P 24VDC Coil	1	+L1.L4/26.2607
A1	Pull Down Clamps Output Module	078896	Module Assy, Pull Down Clamps Output	1	+L9/37.3705
CAN1	CANopen Junction Box	069930	PLC Module, CANopen Junction	1	+L1.L4/19.1903
E1	Ethernet Switch	078466	Switch, Ethernet 5 Port 24VDC	1	+L1.L4/19.1916
ENC1	Feed Position Absolute Encoder	068046	Encoder Assy, Ind. Mill Feed	1	+L1.L4/19.1911
F4	Transformer L1&L3 Fuses	068066	Fuse Holder, 2P Class CC Wire Clamps	1	+L1.L3/3.307
F4	=	069915	Fuse, 0.25A 600V KLDR Class CC	2	+L1.L3/3.307
F5	Transformer Output Fuse	068065	Fuse Holder, 1P Class CC Wire Clamps	1	+L1.L3/3.308
F5	=	069915	Fuse, 0.25A 600V KLDR Class CC	1	+L1.L3/3.308
F6	Feed Drive L1 Fuse	053717	Fuseholder, 60A Cube	1	+L1.L3/2.208
F6	=	069702	Fuse, 40A Class J Cube	1	+L1.L3/2.208
F7	Feed Drive L2 Fuse	053717	Fuseholder, 60A Cube	1	+L1.L3/2.209
F7	=	069702	Fuse, 40A Class J Cube	1	+L1.L3/2.209
F8	Feed Drive L3 Fuse	053717	Fuseholder, 60A Cube	1	+L1.L3/2.209
F8	=	069702	Fuse, 40A Class J Cube	1	+L1.L3/2.209
F9	Power Supply 1 L1&L3 Fuses	068066	Fuse Holder, 2P Class CC Wire Clamps	1	+L1.L3/3.311
F9	=	052381	Fuse, 8A 600V Class CC Delay	2	+L1.L3/3.311
F10	Power Supply 2 L1&L3 Fuses	068066	Fuse Holder, 2P Class CC Wire Clamps	1	+L1.L3/3.316
F10	=	052713	Fuse, 4A 600V Class CC Delay	2	+L1.L3/3.316
F11	Hydraulic Pump Motor L1 Fuse	053736	Fuseholder, Cube 30A	1	+L1.L3/2.202
F11	=	053737	Fuse, 30A Class J Cube	1	+L1.L3/2.202
F12	Hydraulic Pump Motor L2 Fuse	053736	Fuseholder, Cube 30A	1	+L1.L3/2.203
F12	=	053737	Fuse, 30A Class J Cube	1	+L1.L3/2.203
F13	Hydraulic Pump Motor L3 Fuse	053736	Fuseholder, Cube 30A	1	+L1.L3/2.203
F13	=	053737	Fuse, 30A Class J Cube	1	+L1.L3/2.203
F14	Up/Down Servo Drive L1 Fuse	053736	Fuseholder, Cube 30A	1	+L1.L3/2.216
F14	=	053737	Fuse, 30A Class J Cube	1	+L1.L3/2.216
F15	Up/Down Servo Drive L2 Fuse	053736	Fuseholder, Cube 30A	1	+L1.L3/2.217
F15	=	053737	Fuse, 30A Class J Cube	1	+L1.L3/2.217
F16	Up/Down Servo Drive L3 Fuse	053736	Fuseholder, Cube 30A	1	+L1.L3/2.218
F16	=	053737	Fuse, 30A Class J Cube	1	+L1.L3/2.218
F17	Blade Motor L1 Fuse	053586	Fuseholder, 100A Cube	1	+L1.L3/1.117
F17	=	069708	Fuse, 60A Class J Cube	1	+L1.L3/1.117
F18	Blade Motor L2 Fuse	053586	Fuseholder, 100A Cube	1	+L1.L3/1.116
F18	=	069708	Fuse, 60A Class J Cube	1	+L1.L3/1.116
F19	Blade Motor L3 Fuse	053586	Fuseholder, 100A Cube	1	+L1.L3/1.116
F19	=	069708	Fuse, 60A Class J Cube	1	+L1.L3/1.116
G1	DC Motor/ Solenoids Power Supply	078012	Power Supply, 24VDC 20A 200-500V	1	+L1.L3/3.310
G2	Control Power Supply	078193	Power Supply, 24VDC 10A 200-500V	1	+L1.L3/3.315
HM1	Blade Motor Hour Meter	P09631	Meter, Hour	1	+L1.L4/16.1607
JS1	Left Joystick	078360	Joystick, 4-Button w/4-Way Switch	1	+L1.L4/24.2402
JS2	Right Joystick	078360	Joystick, 4-Button w/4-Way Switch	1	+L1.L4/25.2502
K1	Isolation Contactor	069886	Contactor, 115A 3P 24VDC Coil	1	+L1.L4/16.1602
K2	Aux. E-Stop Control	101241	Contactor, 9A 3P 24VDC 1NO	1	+L1.L4/18.1802
K4	Blade Guide In Contactor	024910	Contactor, 9A 2NC 2NO 24VDC Reversing	1	+L1.L4/26.2609
K5	Blade Guide Out Contactor	024910	Contactor, 9A 2NC 2NO 24VDC Reversing	1	+L1.L4/26.2611
K6	Lube Pump Motor Relay	069943	Relay, Solid State 8A DIN	1	+L1.L4/26.2613
K16	Blade Brake Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/26.2615
K17	Blow Off Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/27.2702
K18	Debarker In Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/27.2704
K19	Laser Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/27.2706
K20	Drag Back Finders Up Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/31.3109
K24	Clamp In Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/27.2707
K25	Clamp Out Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/27.2709
K26	Turner Up Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/27.2711



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Device Tag/Parts List

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Device tag	Function	Wood-Mizer Part Number	Wood-Mizer Description	Qty.	X-Ref
K27	Turner Down Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/27.2713
K28	Clamp Up Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/27.2715
K29	Clamp Down Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/28.2802
K30	Toe #1 Up Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/28.2804
K31	Toe #1 Down Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/28.2806
K32	Power Roller Tape Fwd Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/28.2807
K33	Power Taper Roller Rev Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/28.2809
K34	Toe #2 Up Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/28.2811
K35	Toe #2 Down Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/28.2813
K36	Toe #3 Up Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/28.2815
K37	Toe#3 Down Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/29.2902
K38	Side Supports Up Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/29.2904
K39	Side Supports Down Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/29.2906
K40	Conveyor Motor Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/29.2907
K41	Turner Forward Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/29.2909
K42	Turner Reverse Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/29.2911
K43	Loader Up Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/29.2913
K44	Loader Down Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/29.2915
K45	Log Deck Forward Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/30.3002
K46	Log Deck Reverse Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/30.3004
K47	Dump Valve Solenoid Relay	068212	Relay, Solid State 2A 24VDC Coil Cage Clamp Base	1	+L1.L4/30.3006
LAS1	Laser	068035	Laser, 5mW 532nm 90 Deg Line Z-Laser Grn	1	+L1.L4/8.813
M1	Blade Motor	042301	Motor, 30HP 1800RPM	1	+L1.L3/1.115
M2	Hydraulic Pump Motor	078670	Motor, 15HP 230/460 3PH 60Hz	1	+L1.L3/2.202
M3	Feed Motor	115152	Motor, 5HP 3P 230/460 184TC	1	+L1.L3/2.208
M4	Up/Down Servo Motor	068038	Motor, Servo 100mm IP54 Encoder	1	+L1.L3/2.213
M5	Debarker Motor	050292	Motor, 3/4HP 230/460 3P 1725RPM DB LT60	1	+L1.L3/3.302
M6	Blade Guide Motor	035659	Motor Assy, 24V 60 RPM Gear	1	+L1.L4/7.716
MCR1	Master Control Relay	051322	Contact, 25A 3P 24VDC Coil	1	+L1.L4/17.1716
N2	HMI	078794	HMI Assy, Ind. Mill	1	+L5.L7/36.3601
N3	Hydraulic Pwr Unit Proportional Valve Ctrl	068277	Driver Assy, Prop Valve 8 Pin A2.00+	1	+L1.L4/34.3406
OL2	Hydraulic Pump Motor Overload	069885	Overload, 16-24A Class 10 Single Ph Sens	1	+L1.L3/2.202
PB1	E-Stop	068940	Pushbutton Head, 22mm E-Stop Twist-Pull	1	+L1.L4/17.1710
PB1	=	068950	Collar, Mount 1NC ZB5	1	+L1.L4/17.1710
PB1	=	068921	Contact Block, NC ZB5	1	+L1.L4/17.1710
PB2	Blade Brake Manual Override Push-Button	068950	Collar, Mount 1NC ZB5	1	+L1.L4/8.807
PB2	=	068920	Contact Block, NO ZB5	1	+L1.L4/8.807
PBL1	Control Power On PB	068952	Collar, Mount 1NO ZB5	1	+L1.L4/17.1710
PBL1	=	052503	Switch Head, PB Green Flush Illum ZB5	1	+L1.L4/17.1710
PBL1	=	068910	Light Module, Green ZB5	1	+L1.L4/17.1710
PL1	Head Mode Indicator	068912	Light Module, White ZB5	1	+L1.L4/26.2602
PL1	=	068931	Pilot Light, Yellow ZB5	1	+L1.L4/26.2602
PL1	=	068951	Switch Collar, Mount ZB5	1	+L1.L4/26.2602
PL2	Bed Mode Indicator	068912	Light Module, White ZB5	1	+L1.L4/26.2604
PL2	=	068931	Pilot Light, Yellow ZB5	1	+L1.L4/26.2604
PL2	=	068951	Switch Collar, Mount ZB5	1	+L1.L4/26.2604
PLC1	PLC	078783	PLC Assy, Ind. Mill M251	1	+L1.L4/21.2101
PLC1	=	078782	PLC Assy, Ind. Mill CPU	1	+L1.L4/21.2101
PLC1.1	Digital Input	078491	Input Module, Spring Clamp 16Pt Digital	1	+L1.L4/22.2202
PLC1.2	=	078491	Input Module, Spring Clamp 16Pt Digital	1	+L1.L4/24.2402
PLC1.3	Digital Output	078492	Output Module, TM3 16Pt. Transistor	1	+L1.L4/26.2602
PLC1.4	=	078492	Output Module, TM3 16Pt. Transistor	1	+L1.L4/28.2802
PLC1.5	=	078492	Output Module, TM3 16Pt. Transistor	1	+L1.L4/30.3002
PLC1.6	=	078492	Output Module, TM3 16Pt. Transistor	1	+L1.L4/32.3202
PLC1.7	Analog I/O	078648	Analog Module, TM3 4I/2O	1	+L1.L4/34.3402
PRX1	Blade Broken Prox	051439	Sensor, Ind Prox M12 PNP NS Ex	1	+L1.L4/23.2310
PRX2	Ball Nut Prox	051439	Sensor, Ind Prox M12 PNP NS Ex	1	+L1.L4/23.2313



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WM PARTS LIST-Manual

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Terminal line-up diagram

Terminal strip +L1.L3-X2

Terminal				Jumper		End Plate	Remark	Terminal X-Ref
Ref. Des.	Level	P/N	Description	Diagram	P/N	P/N		
TB1	0	068106	Terminal Block, 2Pos 4mm Clamp	⋮				&MEA+.L4/22.09
TB2	0	068106	Terminal Block, 2Pos 4mm Clamp	⋮		068108		&MEA+.L4/22.09
TB3	0	068106	Terminal Block, 2Pos 4mm Clamp	⋮				&MEA+.L4/22.11
TB4	0	068106	Terminal Block, 2Pos 4mm Clamp	⋮		068108		&MEA+.L4/22.11

Terminal line-up diagram

Wood-Mizer_Terminal_Lineup_Diagram

Terminal strip +L1.L4-X4

Terminal				Jumper		End Plate	Remark	Terminal X-Ref
Ref. Des.	Level	P/N	Description	Diagram	P/N	P/N		
TB1	0	068104	Terminal Block, 4Pos 1.5mm GND Clamp	⋮				&MEA+.L3/1.05
TB2	0	068104	Terminal Block, 4Pos 1.5mm GND Clamp	⋮				&MEA+.L3/1.05
TB3	0	068104	Terminal Block, 4Pos 1.5mm GND Clamp	⋮				&MEA+.L3/1
TB4	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●	068113		Jumper is Trimmed Down To 3 Position Jumper Between TB4-6	&MEA+.L3/3.12
TB5	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●				&MEA/12.18
TB6	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●				&MEA/12
TB7	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●	068113		Jumper is Trimmed Down To 2 Position Jumper Between TB7-8	&MEA+.L3/3.11
TB8	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●		068105		&MEA+L9/37.06
TB9	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●	068113		Jumper is Trimmed Down To 3 Position Jumper Between TB9-11	&MEA/7.06
TB10	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●				&MEA/16.02
TB11	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●		068105		&MEA+L9/37.07
TB12	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●	068113		Jumper is Trimmed Down To 8 Position Between TB12-19	&MEA+.L3/3.17
TB13	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●				&MEA/26.15
TB14	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●				&MEA/30.06
TB15	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●				&MEA/16.07
TB16	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●				&MEA+.L3/6.06
TB17	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●				&MEA/26.06
TB18	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●				&MEA/7
TB19	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●		068105		&MEA/7
TB20	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●	068113		Jumper is Trimmed Down To 5 Position Between TB20-24	&MEA+.L3/3.16
TB21	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●				&MEA/7.03
TB22	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●				&MEA/21.02
TB23	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●				&MEA+.L3/6.05
TB24	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●		068105		&MEA/7
TB25	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●	068113		Jumper is Trimmed Down To 2 Position Jumper Between TB25-26	&MEA/21
TB26	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●		068105		&MEA+.L3/6.02



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Terminal line-up diagram

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Terminal strip +L5.L6-X5

Terminal				Jumper		End Plate	Remark	Terminal X-Ref
Ref. Des.	Level	P/N	Description	Diagram	P/N	P/N		
TB1	0	068104	Terminal Block, 4Pos 1.5mm GND Clamp	⌋		068105		&MEA+.L7/36.08
TB2	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●	068113		Jumper is Trimmed Down To 2 Position Between TB2-3	&MEA+.L7/36.07
TB3	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●		068105		&MEA+L1.L4/15.19
TB4	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●	068113		Jumper is Trimmed Down To 2 Position Between TB4-5	&MEA+L1.L4/23.02
TB5	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●		068105		&MEA+.L7/36.06
TB6	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	⌋		068120		&MEA+L1.L4/17.05
TB6	2			⌋				&MEA+L1.L4/17.05
TB7	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	⌋				&MEA+.L7/36.07
TB7	2			⌋				&MEA+.L7/36.08
TB8	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	⌋				&MEA+L1.L4/17.07
TB8	2			⌋				&MEA+.L7/36.06
TB9	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	⌋				&MEA+L1.L4/17.12
TB9	2			⌋				&MEA+L1.L4/17.12
TB10	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	⌋				&MEA+L1.L4/22.06
TB10	2			⌋				&MEA+L1.L4/22.04
TB11	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	⌋		068120		&MEA+L1.L4/18.02
TB11	2			⌋				
TB12	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	⌋				&MEA+L1.L4/24.03
TB12	2			⌋				&MEA+L1.L4/24.03
TB13	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	⌋				&MEA+L1.L4/24.04
TB13	2			⌋				&MEA+L1.L4/24.04
TB14	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	⌋				&MEA+L1.L4/24.06
TB14	2			⌋				&MEA+L1.L4/24.05
TB15	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	⌋				&MEA+L1.L4/24.08
TB15	2			⌋				&MEA+L1.L4/24.06
TB16	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	⌋				&MEA+L1.L4/24.08
TB16	2			⌋				&MEA+L1.L4/24.09
TB17	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	⌋		068120		&MEA+L1.L4/24.07
TB17	2			⌋				&MEA+L1.L4/24.09
TB18	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	⌋				&MEA+L1.L4/25.03
TB18	2			⌋				&MEA+L1.L4/25.03
TB19	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	⌋				&MEA+L1.L4/25.04
TB19	2			⌋				&MEA+L1.L4/25.04
TB20	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	⌋				&MEA+L1.L4/25.06
TB20	2			⌋				&MEA+L1.L4/25.05



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Terminal line-up diagram

Terminal strip +L5.L6-X5

Terminal				Jumper		End Plate	Remark	Terminal
Ref. Des.	Level	P/N	Description	Diagram	P/N	P/N		X-Ref
TB21	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	I				&MEA+L1.L4/25.08
TB21	2			I				&MEA+L1.L4/25.06
TB22	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	I				&MEA+L1.L4/25.08
TB22	2			I				&MEA+L1.L4/25.09
TB23	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	I		068120		&MEA+L1.L4/25.07
TB23	2			I				&MEA+L1.L4/25.09
TB24	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	I				&MEA+L1.L4/23.02
TB24	2			I				&MEA+L1.L4/23.02
TB25	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	I		068120		
TB25	2			I				&MEA+L1.L4/23.03
TB26	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	I				&MEA+L1.L4/17.07
TB26	2			I				&MEA+L1.L4/17.07
TB27	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	I				&MEA+L1.L4/17.07
TB27	2			I				&MEA+L1.L4/17.07
TB28	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	I				&MEA+L1.L4/17.07
TB28	2			I				&MEA+L1.L4/17.07
TB29	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	I		068120		&MEA+L1.L4/18.05
TB29	2			I				&MEA+L1.L4/18.03
TB30	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	I		068120		&MEA+L1.L4/18
TB30	2			I				&MEA+L1.L4/18.05
TB31	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	I				&MEA+L1.L4/15.19
TB31	2			I				&MEA+L1.L4/15.20
TB32	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	I		068120		&MEA+L1.L4/15.18
TB32	2			I				



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Terminal line-up diagram

Wood-Mizer_Terminal_Lineup_Diagram

Terminal strip +L11.L12-X6

Terminal				Jumper		End Plate	Remark	Terminal X-Ref
Ref. Des.	Level	P/N	Description	Diagram	P/N	P/N		
TB1	0	068104	Terminal Block, 4Pos 1.5mm GND Clamp	┆				&MEA+L1.L3/1.09
TB2	0	068104	Terminal Block, 4Pos 1.5mm GND Clamp	┆		068105		&MEA+L1.L4/19.12
TB3	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●	068113		Jumper is Trimmed Down To 2 Position Between TB3-4	&MEA+L1.L4/8.05
TB4	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●		068105		&MEA+L1.L4/8.13
TB5	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●	068113		Jumper is Trimmed Down To 3 Position Between TB5-7	&MEA+L1.L4/16.09
TB6	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●				&MEA+L1.L4/26.02
TB7	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●		068105		&MEA+L1.L4/19.12
TB8	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●	068113		Jumper is Trimmed Down To 2 Position Between TB8-9	&MEA+L1.L4/23.07
TB9	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●		068105		&MEA+L1.L4/23.06
TB10	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	┆				&MEA+L1.L4/17.02
TB10	2			┆				&MEA+L1.L4/17.02
TB11	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	┆				&MEA+L1.L4/17.02
TB11	2			┆				&MEA+L1.L4/17.02
TB12	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	┆				&MEA+L1.L4/7.15
TB12	2			┆				&MEA+L1.L4/7.17
TB13	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	┆				&MEA+L1.L4/8.09
TB13	2			┆				&MEA+L1.L4/8.07
TB14	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	┆				
TB14	2			┆				&MEA+L1.L4/8.11
TB15	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	┆				
TB15	2			┆				&MEA+L1.L4/8.13
TB16	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	┆		068120		&MEA+L1.L4/23.13
TB16	2			┆				&MEA+L1.L4/23.10
TB17	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	┆				&MEA+L1.L4/8
TB17	2			┆				&MEA+L1.L4/8.16



Wood-Mizer®

Project Description: WM4500 Standard

Revision: A5.00 Pg Desc: Terminal line-up diagram

Mounting Location: +Docs Type: Terminal line-up diagram

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Terminal line-up diagram

Wood-Mizer_Terminal_Lineup_Diagram

Terminal strip +L9.L10-X7

Terminal				Jumper		End Plate	Remark	Terminal X-Ref
Ref. Des.	Level	P/N	Description	Diagram	P/N	P/N		
TB1	0	068104	Terminal Block, 4Pos 1.5mm GND Clamp	┆				&MEA+L1.L3/1.08
TB2	0	068104	Terminal Block, 4Pos 1.5mm GND Clamp	┆				&MEA+L1.L4/9.04
TB3	0	068104	Terminal Block, 4Pos 1.5mm GND Clamp	┆				&MEA+L1.L4/9.07
TB4	0	068104	Terminal Block, 4Pos 1.5mm GND Clamp	┆				&MEA+L1.L4/9.11
TB6	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●	068113		Jumper is Trimmed Down To 5 Position Between TB6-10	&MEA+L1.L4/9.02
TB7	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●				&MEA+L1.L4/9.02
TB8	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●				&MEA+L1.L4/9.06
TB9	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	●				&MEA+L1.L4/9.09
TB11	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	┆		068105		&MEA+L1.L4/16.12
TB12	0	068103	Terminal Block, 4Pos 1.5mm Com Clamp	┆		068105		&MEA+L1.L4/16.12
TB13	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	┆				&MEA+L1.L4/9.02
TB13	2			┆				&MEA+L1.L4/9.05
TB14	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	┆				&MEA+L1.L4/9.06
TB14	2			┆				&MEA+L1.L4/9.08
TB15	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	┆				&MEA+L1.L4/9.09
TB15	2			┆				&MEA+L1.L4/9.12
TB16	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	┆				&MEA+L1.L4/9.13
TB16	2			┆				&MEA+L1.L4/9.15
TB17	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	┆				&MEA+L1.L4/9.16
TB17	2			┆				&MEA+L1.L4/9.19
TB18	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	┆				&MEA+L1.L4/10.02
TB18	2			┆				&MEA+L1.L4/10.04
TB19	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	┆				&MEA+L1.L4/10.05
TB19	2			┆				&MEA+L1.L4/10.08
TB20	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	┆				&MEA+L1.L4/10.09
TB20	2			┆				&MEA+L1.L4/10.11
TB21	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	┆				&MEA+L1.L4/10.12
TB21	2			┆				
TB22	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	┆				&MEA+L1.L4/10.15
TB22	2			┆				&MEA+L1.L4/10.17
TB23	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	┆				&MEA+L1.L4/11.02
TB23	2			┆				&MEA+L1.L4/11.04
TB24	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	┆				&MEA+L1.L4/11.05
TB24	2			┆				&MEA+L1.L4/11.07
TB25	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	┆				&MEA+L1.L4/34.07



Wood-Mizer®

Project Description: WM4500 Standard

Revision: A5.00 Pg Desc: Terminal line-up diagram

Mounting Location: +Docs Type: Terminal line-up diagram

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Terminal line-up diagram

Terminal strip +L9.L10-X7								
Terminal				Jumper		End Plate	Remark	Terminal X-Ref
Ref. Des.	Level	P/N	Description	Diagram	P/N	P/N		
TB25	2			I				&MEA+L1.L4/34.08
TB26	1	068119	Terminal Block, 2 Tier 2.5mm Clamp	I				&MEA+L1.L4/11.09
TB26	2			I				

Terminal line-up diagram

Terminal strip +L5.L15-X9

Terminal				Jumper		End Plate	Remark	Terminal X-Ref
Ref. Des.	Level	P/N	Description	Diagram	P/N	P/N		
TB1	0	052293	Junction Block, 3-Position Wire Clamp	I				&MEA+L1.L4/15.15
TB2	0	052293-2	Junction Block, 2-Position Wire Clamp	I				&MEA+L1.L4/15.14
TB3	0	052293-2	Junction Block, 2-Position Wire Clamp	I				&MEA+L1.L4/15.13
TB4	0	052293	Junction Block, 3-Position Wire Clamp	I				&MEA+L1.L4/15.14

Cable Overview

Cable Designation	Cable Part Number	Cable Description	Cable X-Ref
W1	069958 069958	Cable Assy, Ind. Mill Blade Motor Cable Assy, Ind. Mill Blade Mtr Full Ex	+L1.L3/1.118
W2	069993	Cable Assy, Ind. Mill Hydraulic Mtr	+L1.L3/2.202
W3	078442 078442	Cable Assy, Ind. Mill Feed Motor Cable Assy, Ind. Mill Feed Mtr Full Ex	+L1.L3/2.208
W4	068179	Cable Assy, Ind. Mill Up/Dn Servo Mtr	+L1.L3/2.214
W5	068180	Cable Assy, Ind. Mill Up/Dn Servo Enc	+L1.L3/2.213
W6	069959	Cable Assy, Ind. Mill Debarker Motor	+L1.L3/3.302
W20	069962	Cable Assy, Ind. Mill Head Box	+L1.L4/7.708
W21	078656	Cable Assy, Ind. Mill Hydraulic Control	+L1.L4/10.1002
W22	078657	Cable Assy, Ind. Mill Operator Junction	+L1.L4/16.1616
W23	078658	Cable Assy, Ind. Mill HMI Control	+L1.L4/17.1710
W30	078659	Cable Assy, Ind. Mill Left Joystick	+L1.L4/24.2403
W31	078660	Cable Assy, Ind. Mill Right Joystick	+L1.L4/25.2503
W32	078054	Cable Assy, Ind. Mill Sec. Side Supports	+L1.L4/15.1518
W33	078053	Cable Assy, Ind. Mill Sd Spt Ft Pdl	+L1.L4/15.1513
W34	069963	Cable Assy, Ind. Mill Seat Switch	+L1.L4/17.1705
W35	078661	Cable Assy, Ind. Mill Foot Pedal	+L1.L4/23.2302
W36	078662	Cable Assy, Ind. Mill Blade Break Prox	+L1.L4/23.2310
W37	078663	Cable Assy, Ind. Mill Ball Nut Prox	+L1.L4/23.2312
W38	069988	Cable Assy, Ind. Mill Blade Guide Motor	+L1.L4/7.715
W39	068074	Cable Assy, Ind. Mill Laser	+L1.L4/8.813
W40	068048	Cable Assy, Ind. Mill Feed Encoder Pwr	+L1.L4/19.1911
W40A	068206	Connector Assy, Ind. Mill Feed Encoder	+L1.L4/19.1911
W41	078791	Cable Assy, Drag Back Solenoid	+L1.L4/8.802
W42	078665	Cable Assy, Ind. Mill Prop Valve	+L1.L4/34.3407
W61	069977	Cable Assy, Ind. Mill Bld Brk Sol.	+L1.L4/8.807
W62	069978	Cable Assy, Ind. Mill Blw Off Sol.	+L1.L4/8.809
W63	069979	Cable Assy, Ind. Mill Debarker Sol.	+L1.L4/8.811
W64	069966	Cable Assy, Ind. Mill Clamp In/Out Sol	+L1.L4/9.902
W65	069967	Cable Assy, Ind. Mill Turner Up/Dn Sol.	+L1.L4/9.906
W66	069968	Cable Assy, Ind. Mill Clamp Up/Dn Sol.	+L1.L4/9.909
W67	069969	Cable Assy, Ind. Mill Toe #1 Up/Dn Sol.	+L1.L4/9.913
W68	069970	Cable Assy, Ind. Mill Pwr Tpr Fwd/Rv Sol.	+L1.L4/9.916
W69	069971	Cable Assy, Ind. Mill Toe #2 Up/Dn Sol.	+L1.L4/10.1002
W70	069972	Cable Assy, Ind. Mill Toe #3 Up/Dn Sol.	+L1.L4/10.1005
W71	069973	Cable Assy, Ind. Mill Sd Sup Up/Dn Sol.	+L1.L4/10.1009

Cable Overview

Wood-Mizer_Cable_Overview

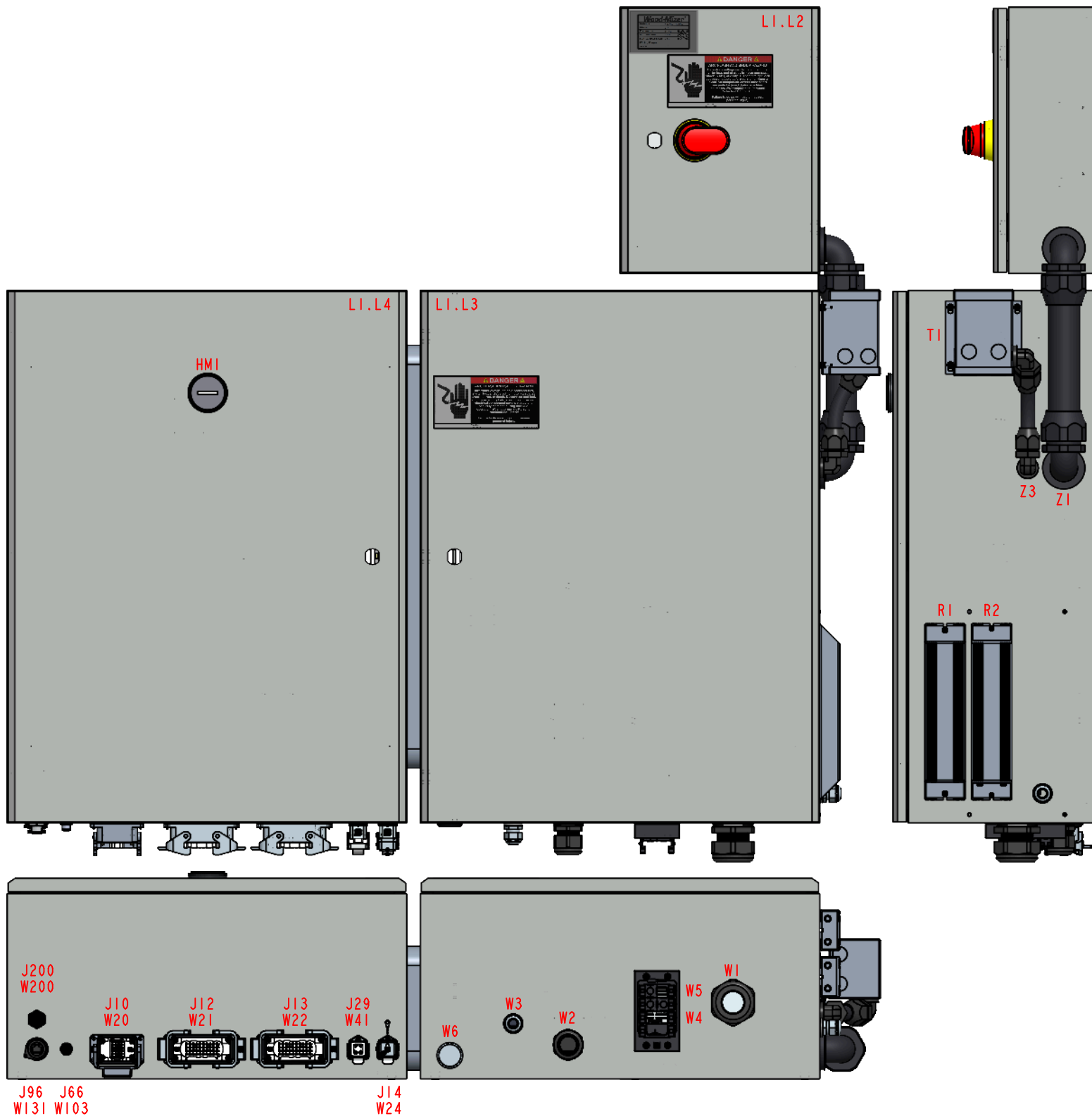
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W73	069974	Cable Assy, Ind. Mill Pwr Tpr Fwd/Rv Sol.	+L1.L4/10.1014
W74	069975	Cable Assy, Ind. Mill Loader Up/Dn Sol.	+L1.L4/11.1102
W75	069976	Cable Assy, Ind. Mill Log Deck Fwd/Rev S	+L1.L4/11.1105
W77	069978	Cable Assy, Ind. Mill Blw Off Sol.	+L1.L4/8.816
W80	078905	Cable Assy, Pull Down Clamp 1 Up/Down	+L9/38.3802
W81	078906	Cable Assy, Pull Down Clamp 1 In/Out	+L9/38.3811
W82	078907	Cable Assy, Pull Down Clamp 2 Up/Down	+L9/39.3902
W83	078908	Cable Assy, Pull Down Clamp 2 In/Out	+L9/39.3911
W90	078055	Cable Assy, Ind. Mill Sec Sd Spt Sol	+L1.L4/15.1513
W100	069937	Cable Assy, Ind. Mill CANopen PLC	+L1.L4/21.2111
W101	069873	Cable Assy, Ind. Mill CANopen Feed Drive	+L1.L4/19.1902
W102	069874	Cable Assy, Ind. Mill CANopen Up/Dn Driv	+L1.L4/19.1902
W103.A	068029	Connector Assy, Ind. Mill CANopen Main	+L1.L4/19.1908
W103.B	068283	Cable Assy, Ind. Mill Encoder CAN	+L1.L4/19.1908
W104	078897	Cable Assy, Pull Down Clamps Mdl CAN	+L9/37.3711
W120	069923	Cable Assy, Ind. Mill Modbus Soft Start	+L1.L4/21.2106
W121	069923-1	Cable Assy, Ind. Mill Modbus Soft Start Jnct	+L1.L3/4.415
W130	068162	Cable Assy, Ind. Mill Ethernet PLC	+L1.L4/21.2108
W131.A	069888	Cable Assy, Ind. Mill Ethernet Main Inte	+L1.L4/19.1918
W131.B	069997	Cable Assy, Ind. Mill HMI Ethernet	+L5.L7/36.3610
W131.C	069986	Cable Assy, Ind. Mill Ethernet HMI Int	+L5.L7/36.3610
W140	068178	Receptacle, Panel Mount USB	+L5.L7/36.3608
W200	078895	Connector Assy, Ind. Mill Remote Pwr	+L9/37.3706
W201	078898	Cable Assy, Pull Down Clamps Mdl Pwr	+L9/37.3706
Z1	078785	Harness Assy, Ind. Mill Disconnect	+L1.L3/1.101
Z3	069935	Harness Assy, Ind. Mill Transformer	+L1.L3/3.306



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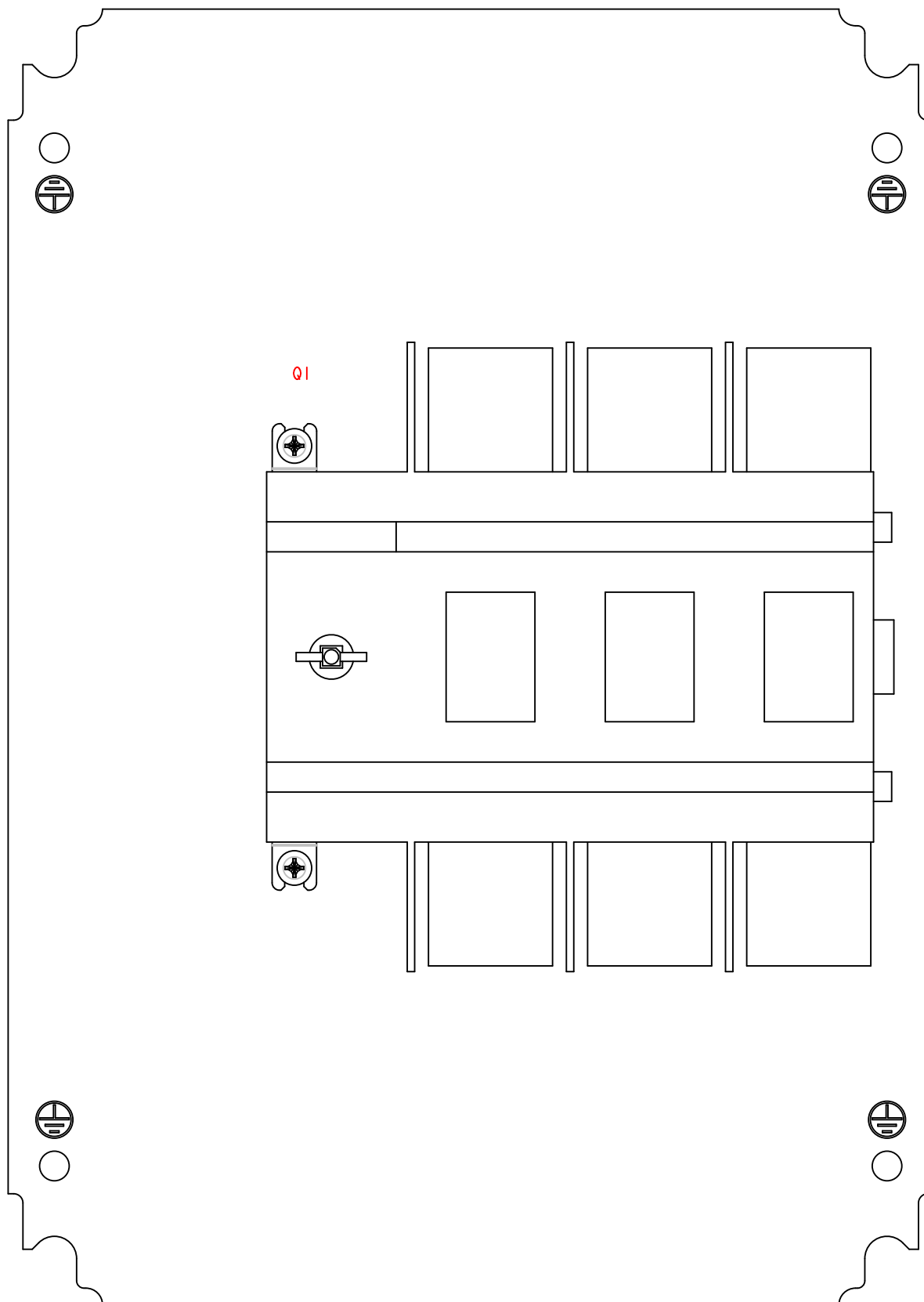
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Wood-Mizer®

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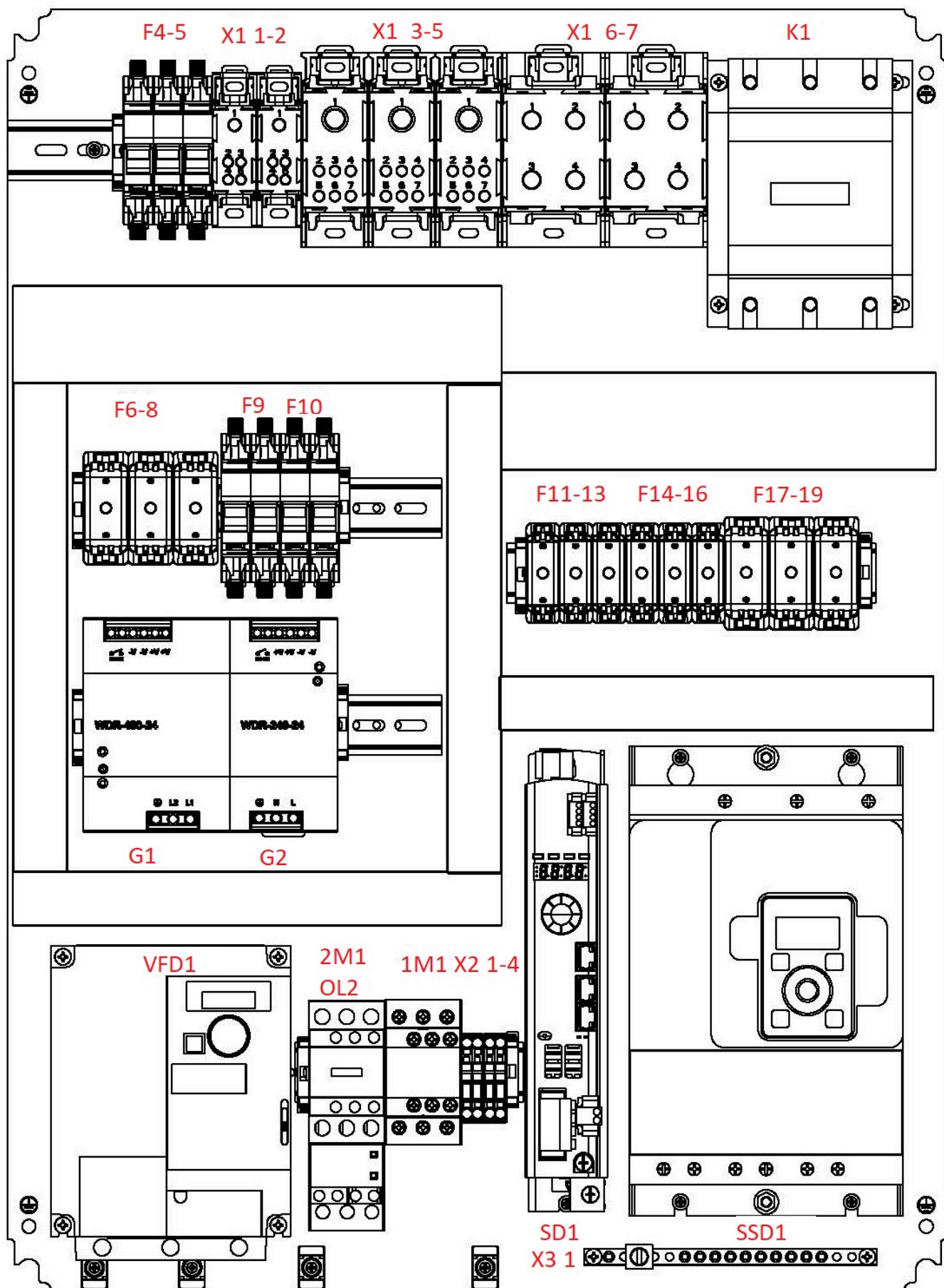
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Wood-Mizer®

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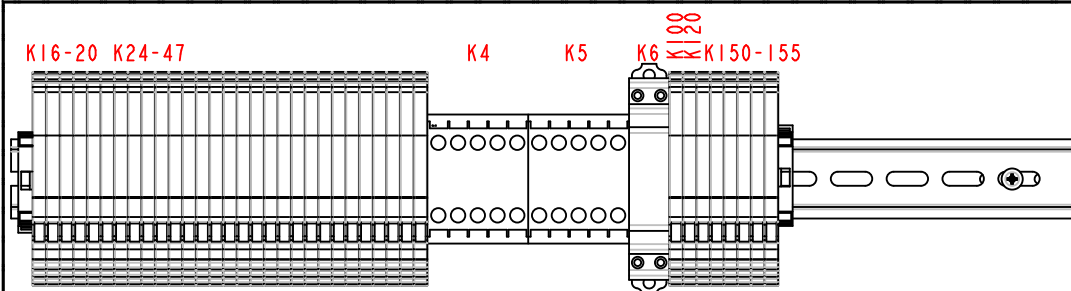
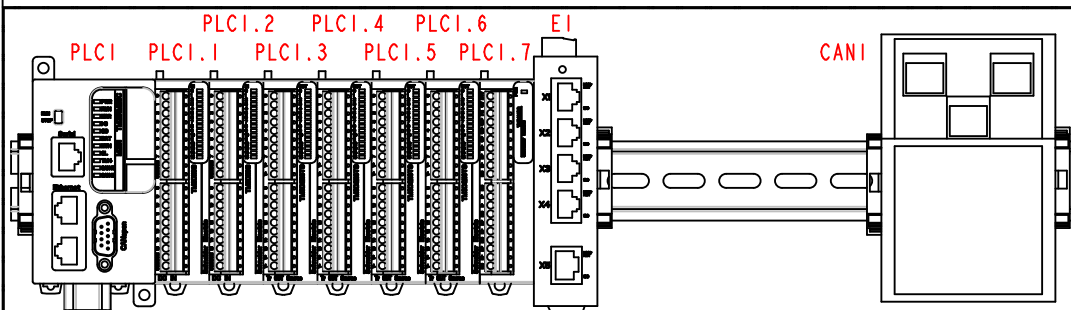
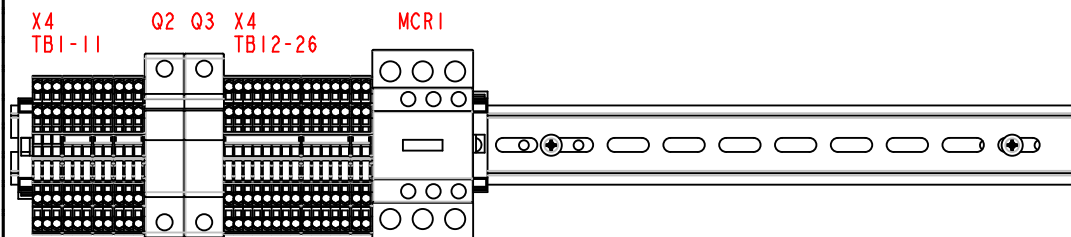
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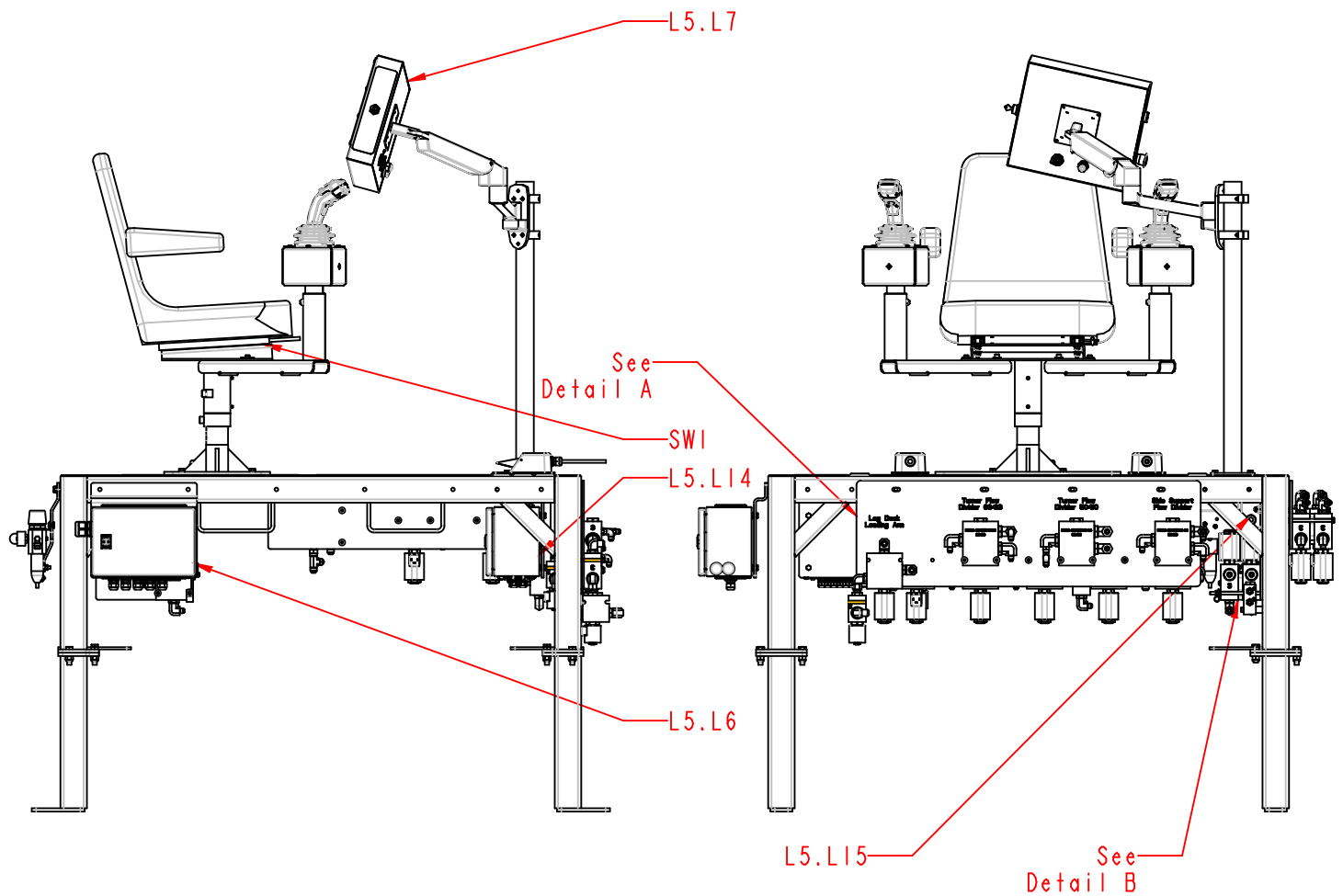
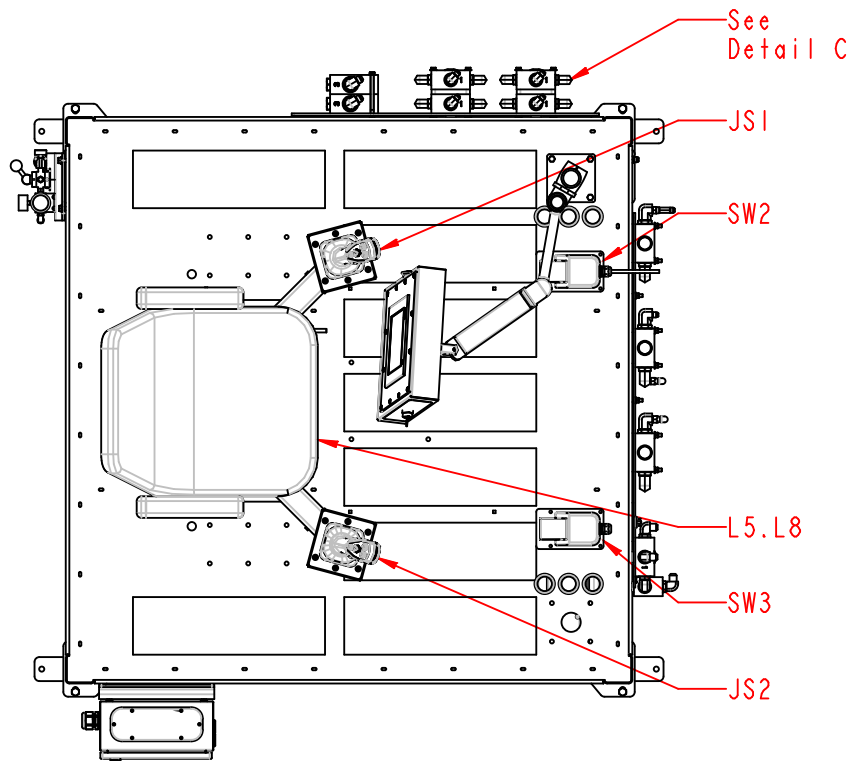
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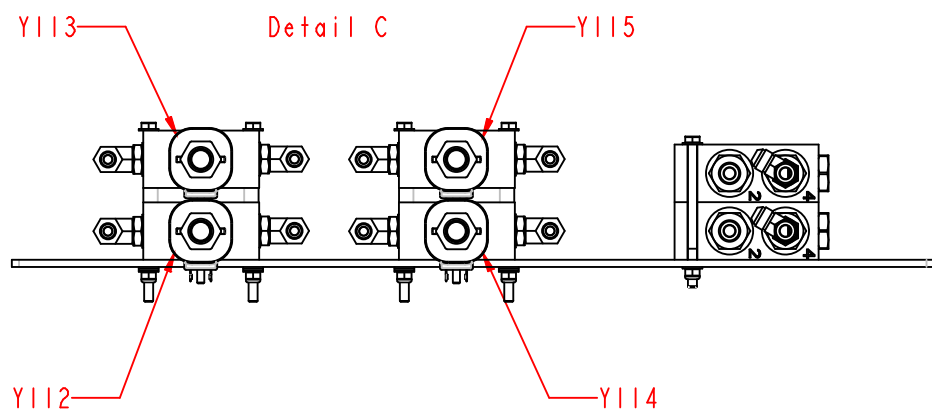
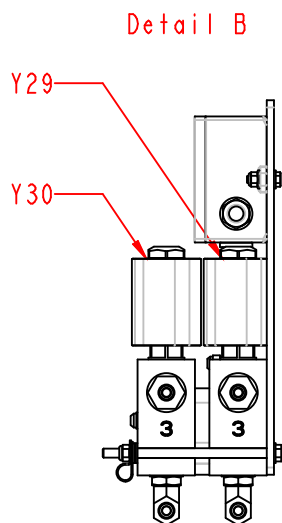
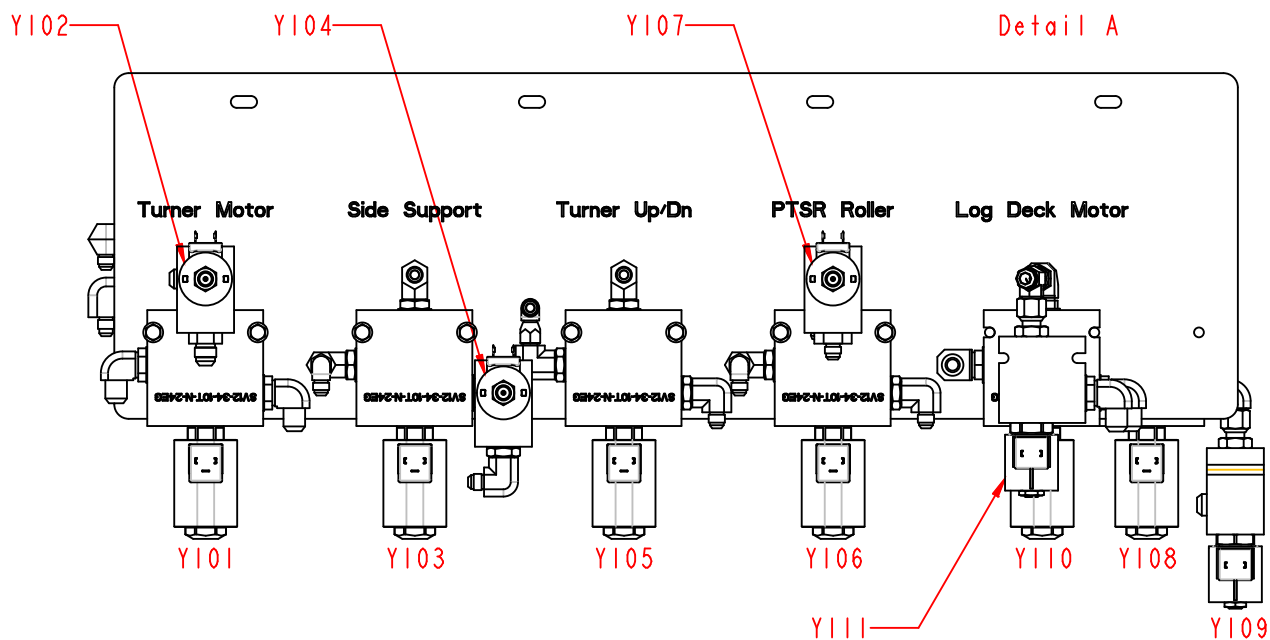
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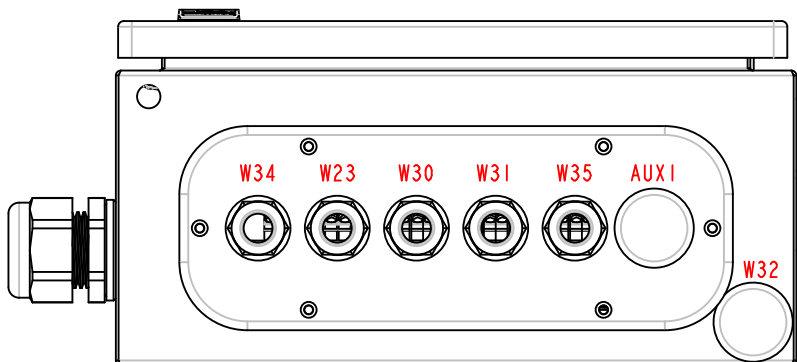
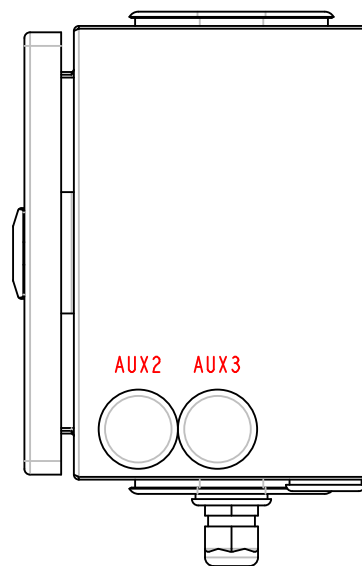
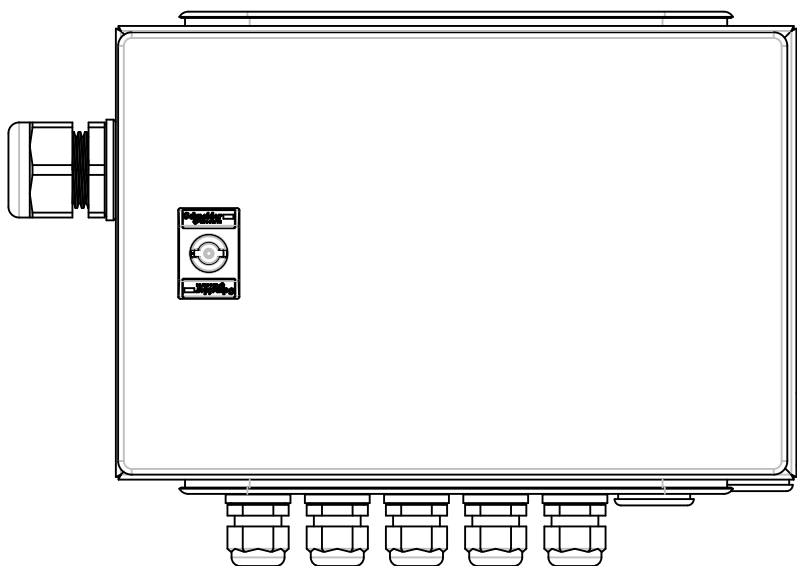
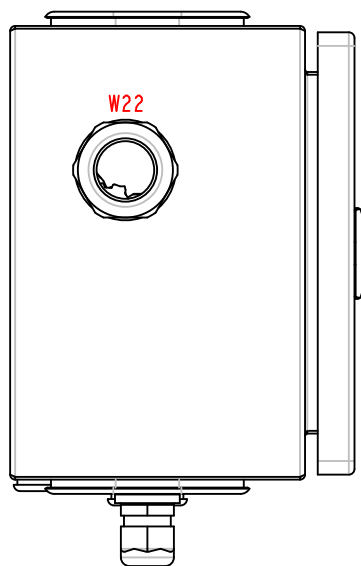
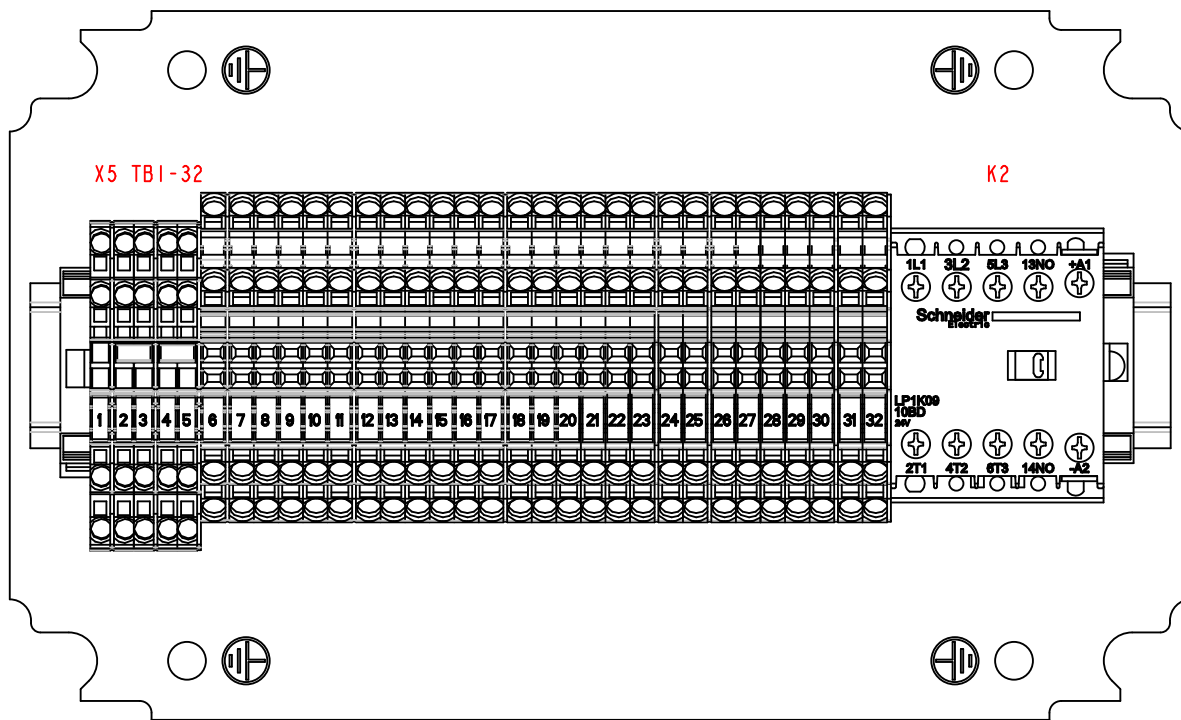
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Wood-Mizer®

Project Description: WM4500 Standard

Revision:	A5.00	Pg Desc:	Operator Ctl Solenoid Layout
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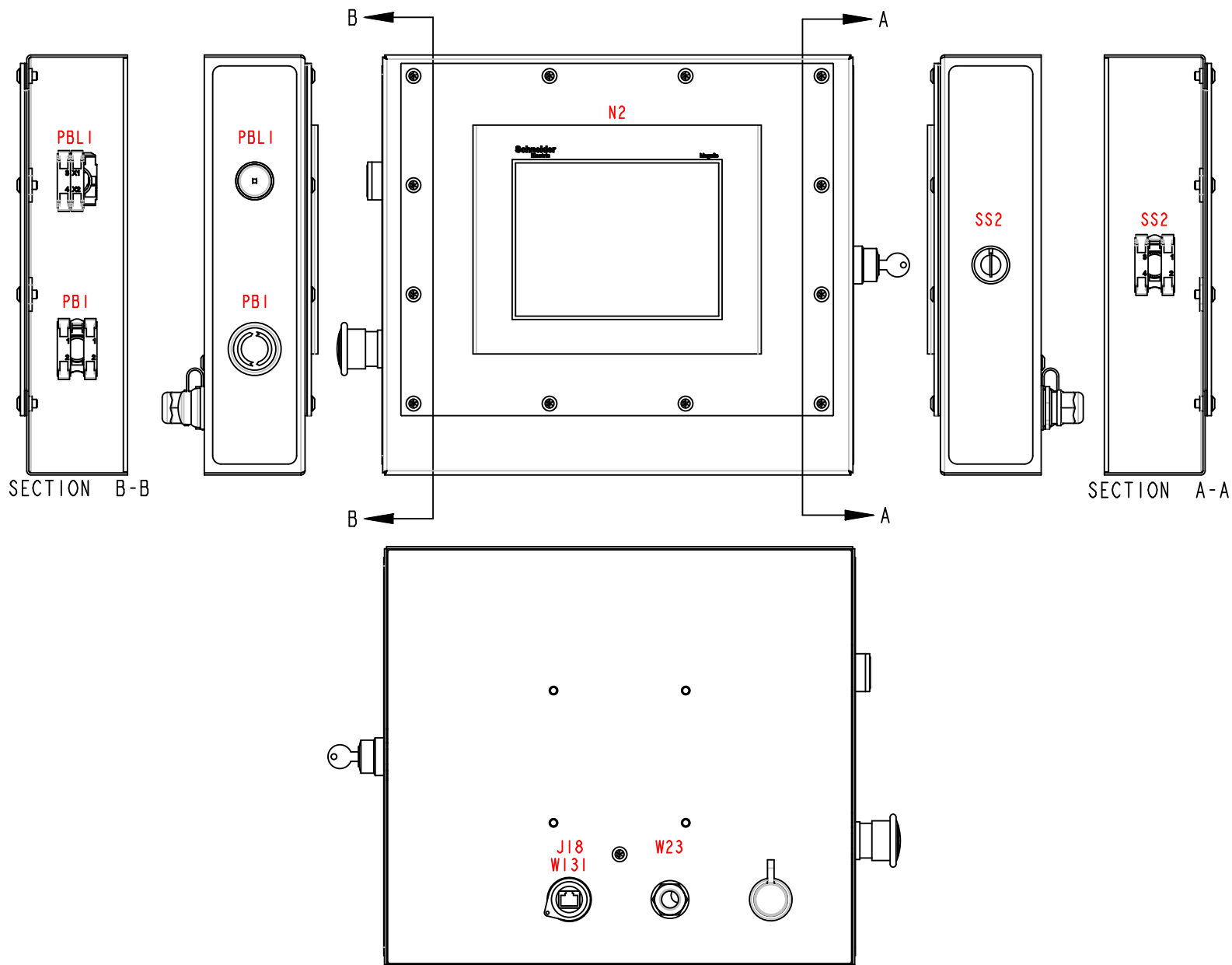
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Project Description: WM4500 Standard

Revision: A5.00 Pg Desc: Operator Ctl Junction Layout

Mounting Location: +Docs Type: Panel layout

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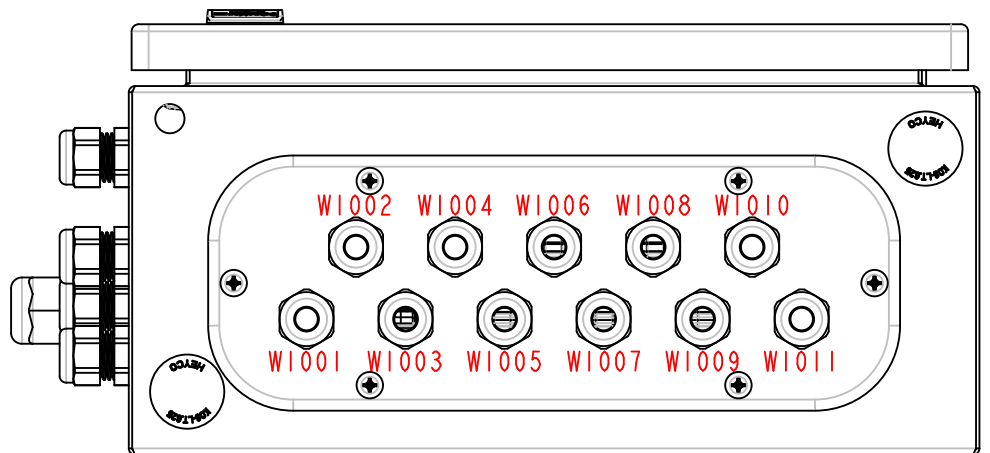
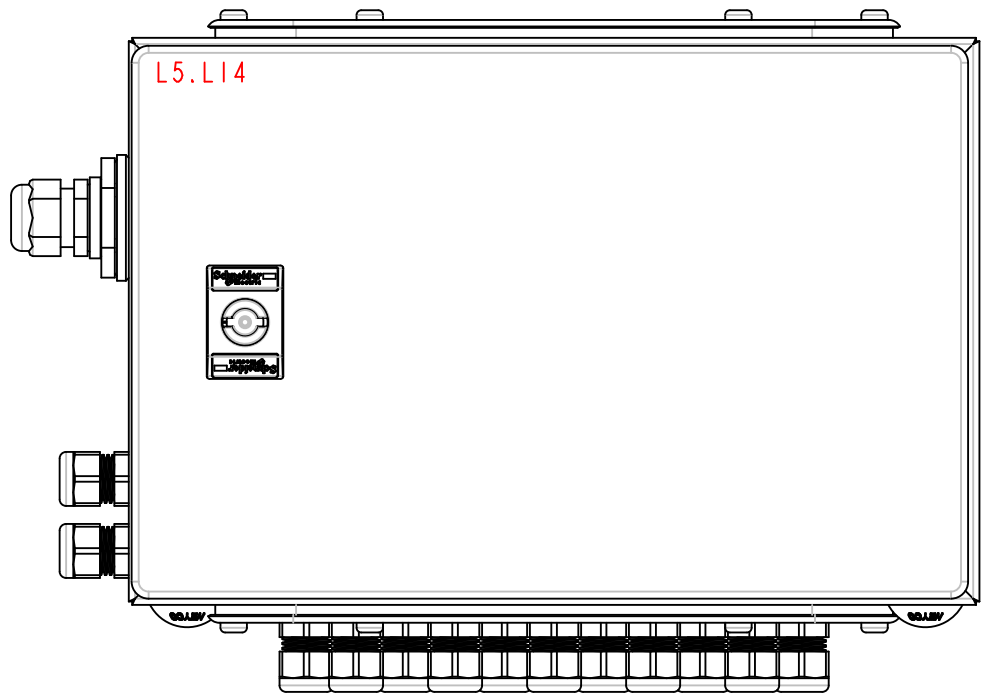
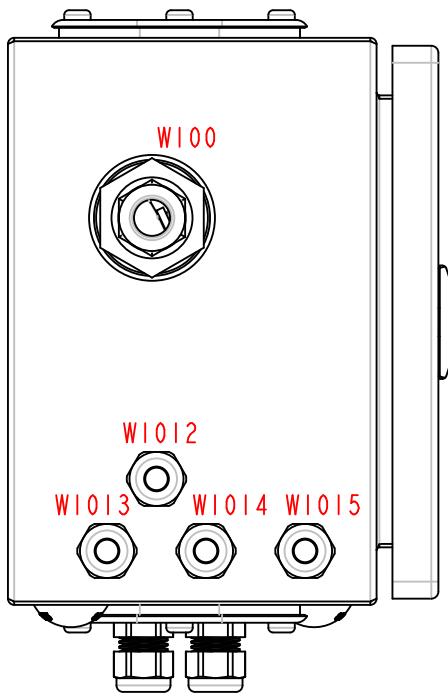
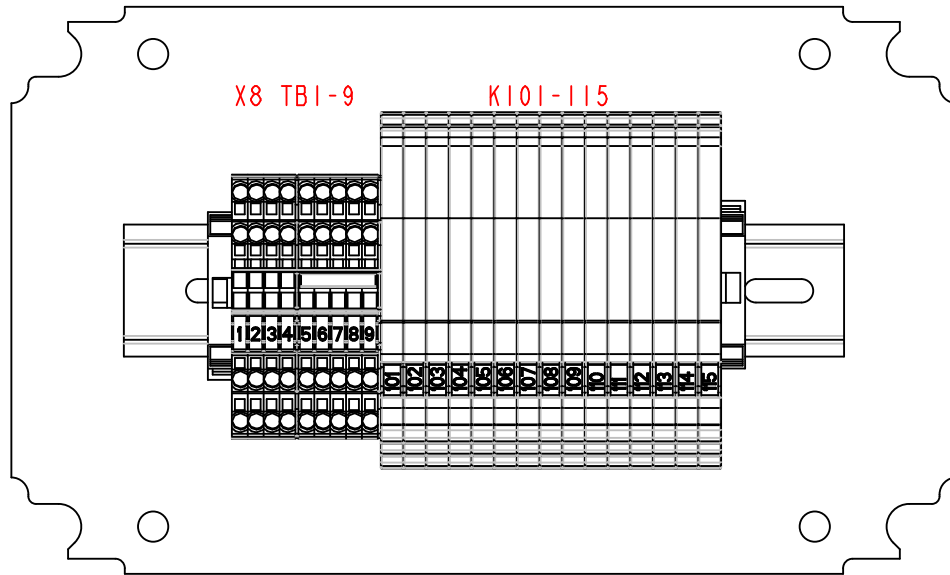
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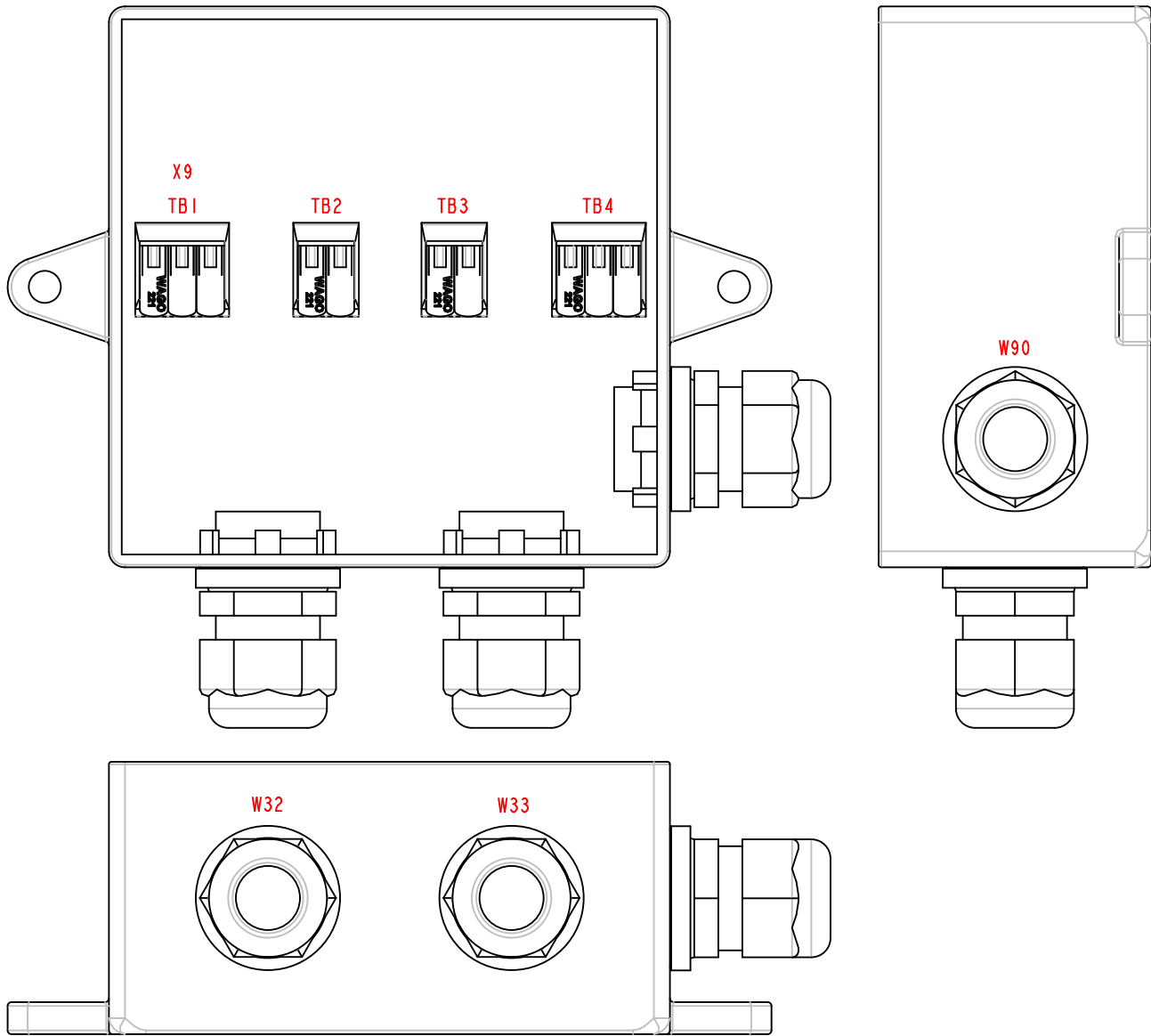
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Revision: A5.00 Pg Desc: Operator Ctl HMI Layout

Mounting Location: +Docs Type: Panel layout

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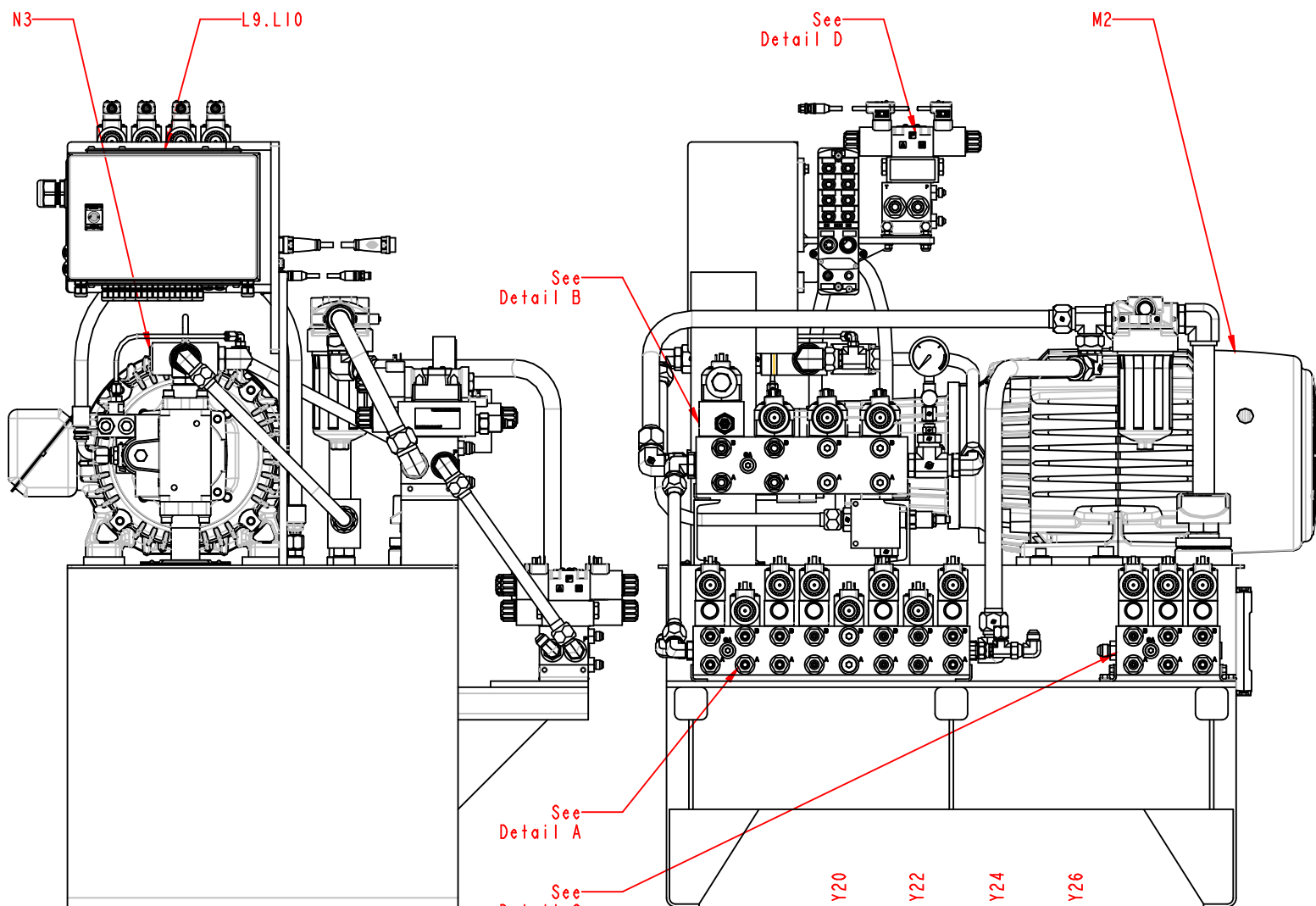




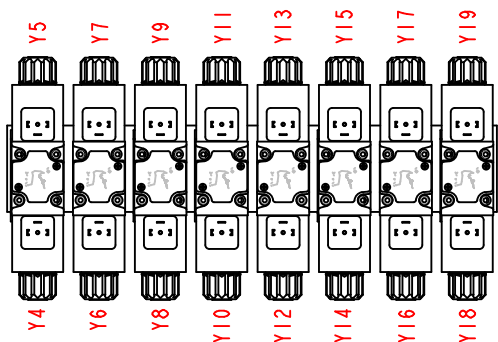
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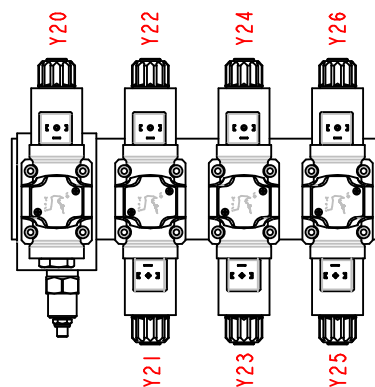
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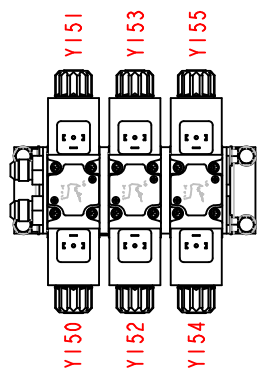
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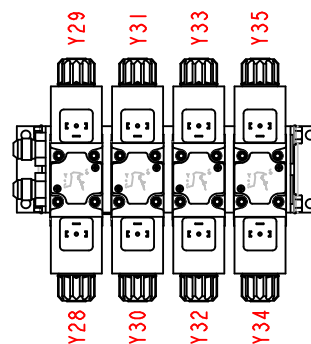
Detail B



Detail C



Detail D



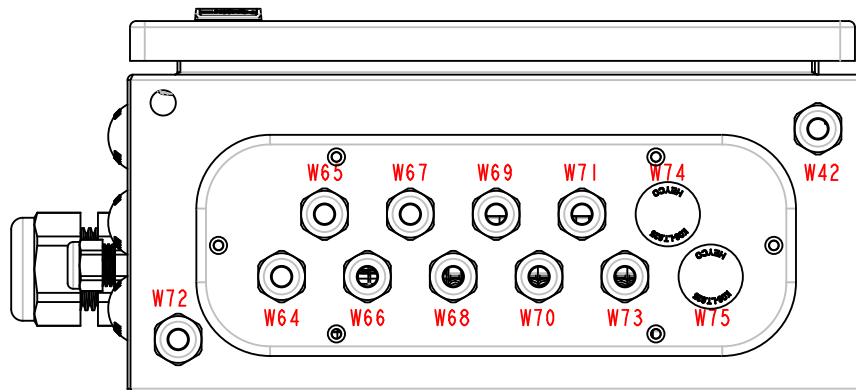
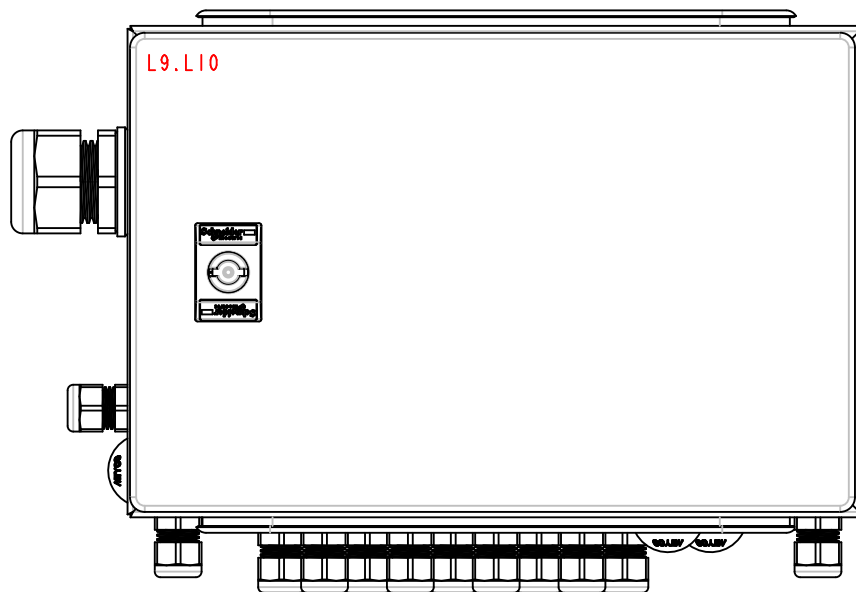
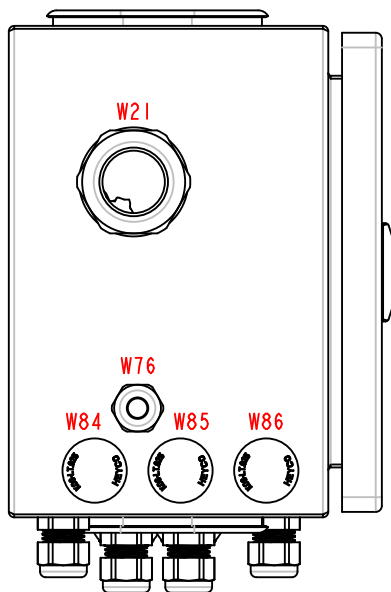
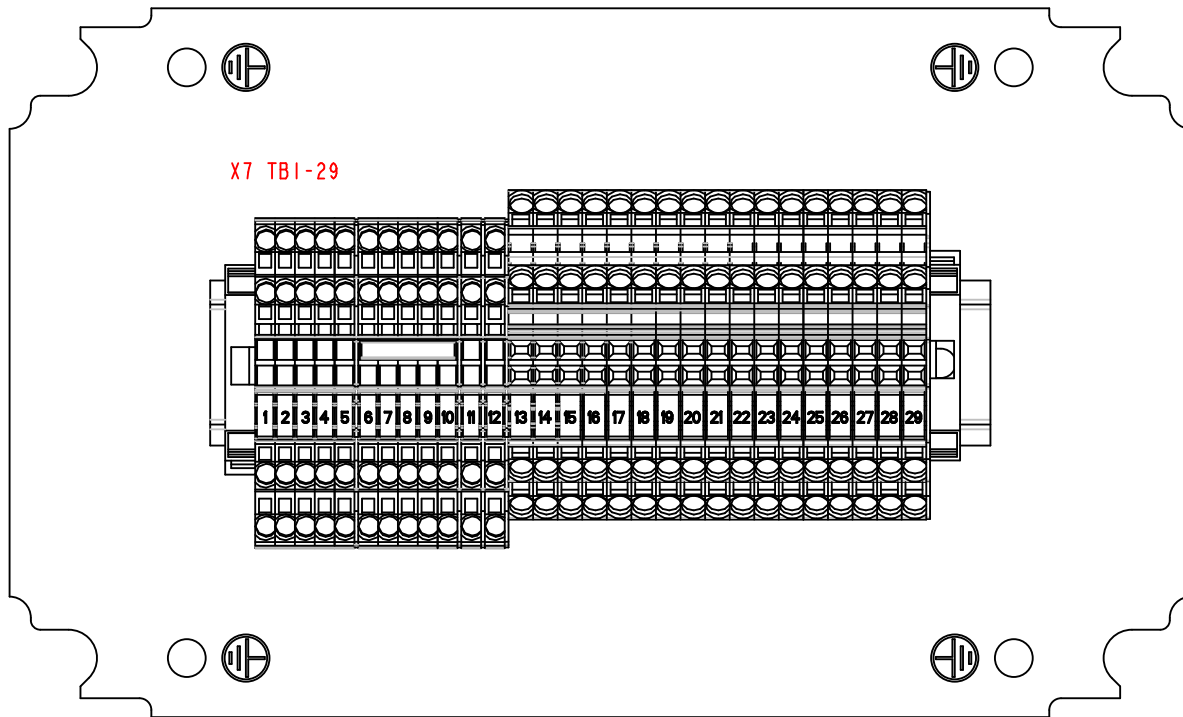
Wood-Mizer®

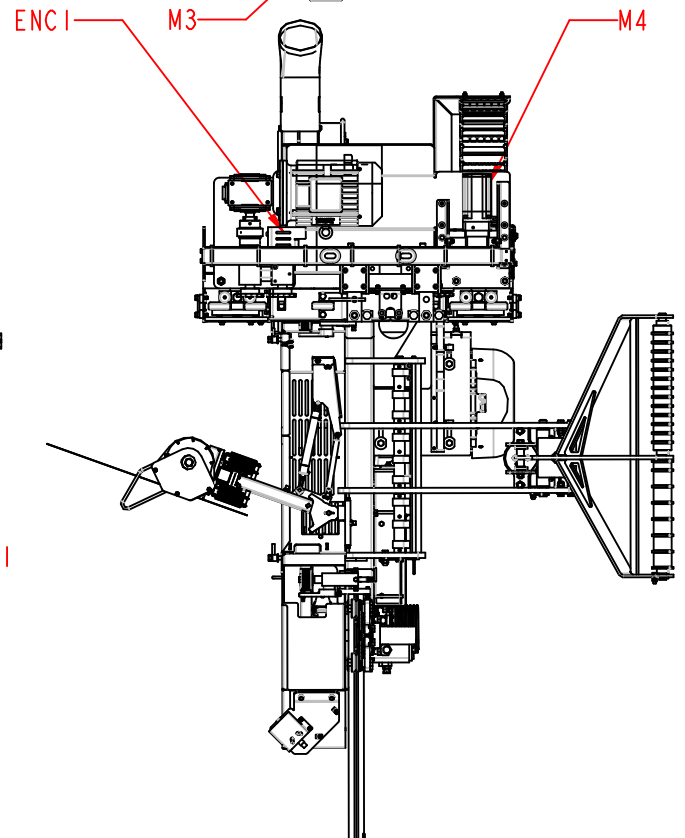
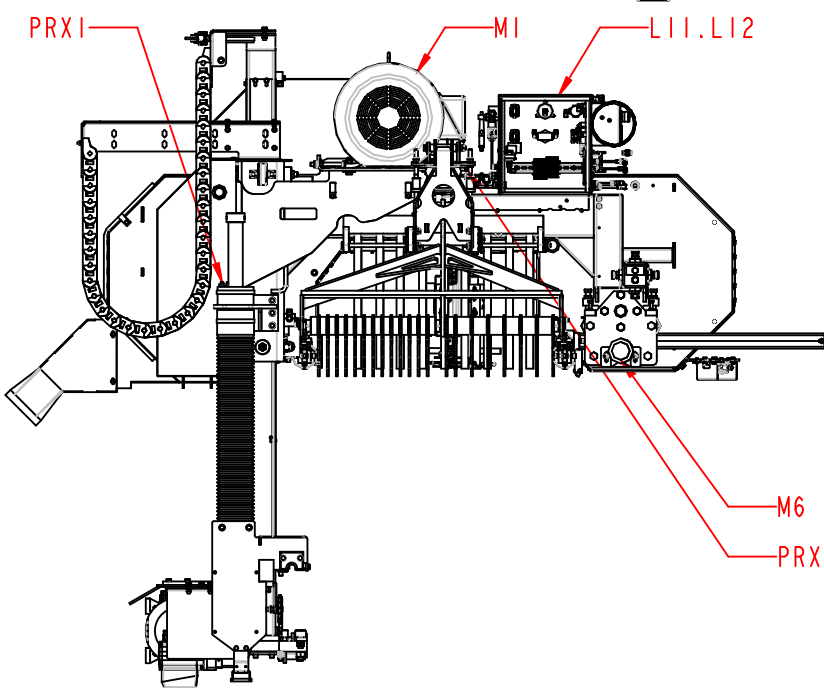
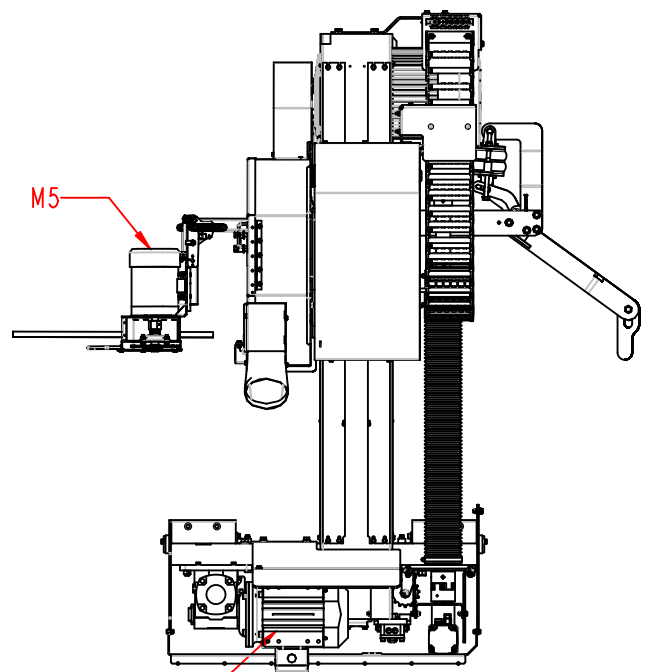
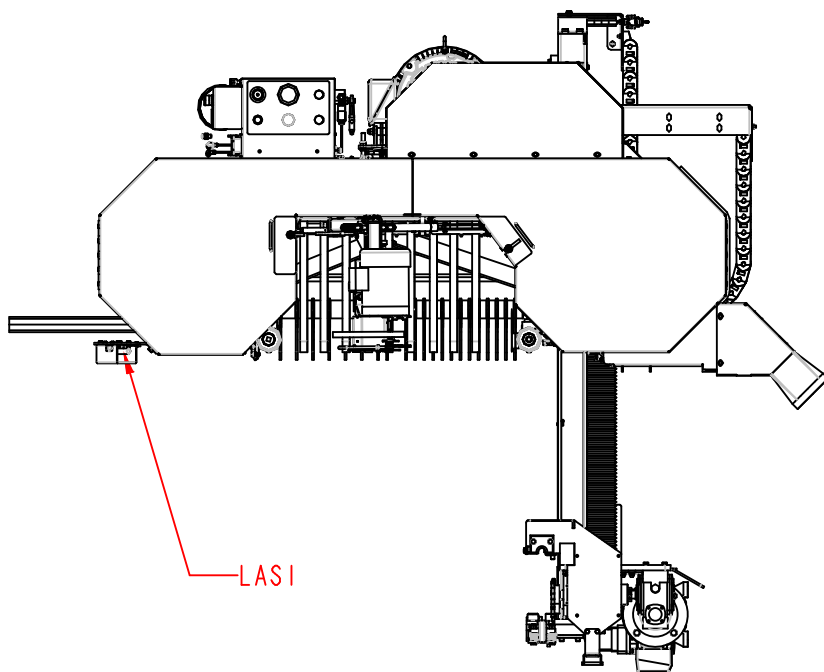
Project Description: WM4500 Standard

Revision: A5.00 Pg Desc: Hydraulic Control Layout

Mounting Location: +Docs Type: Panel layout

Prev. pg: F10 Page: F11 Next pg: F12 Total Pgs: 89

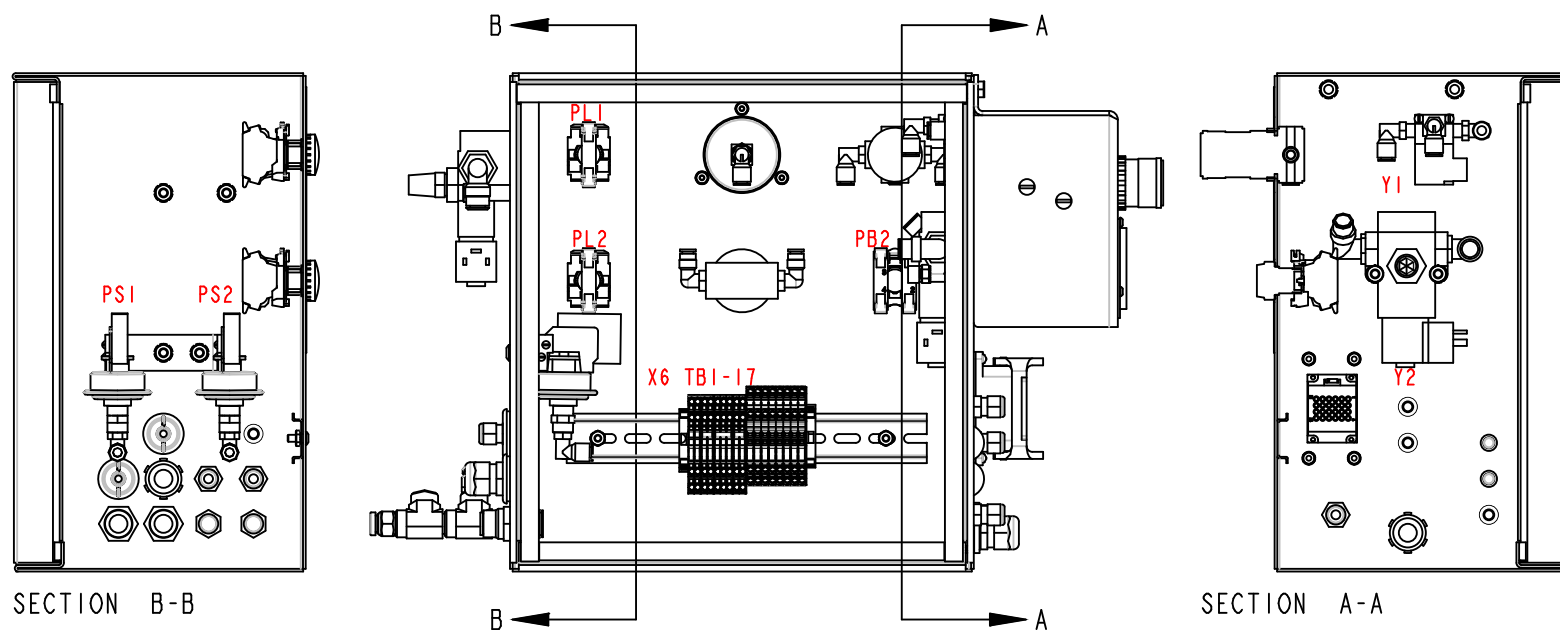
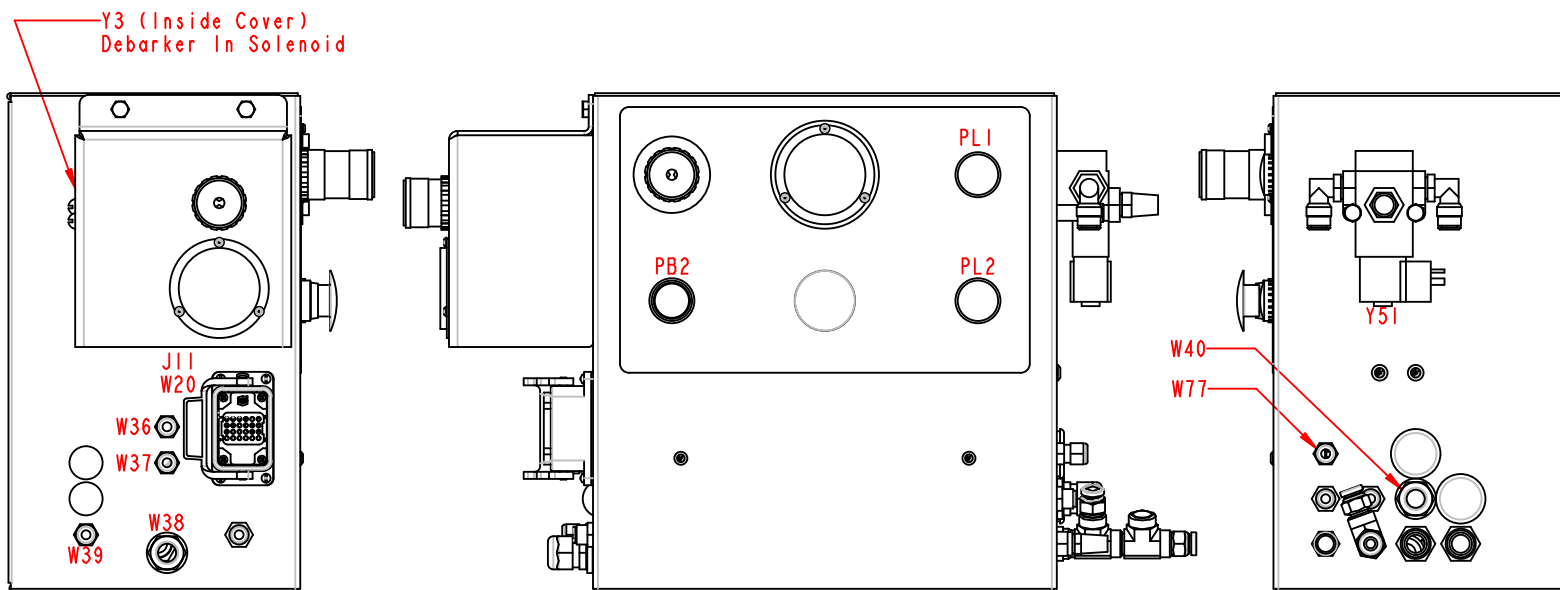




Wood-Mizer®

Project Description: WM4500 Standard

Revision: A5.00		Pg Desc: Head Control Layout	
Mounting Location: +Docs		Type: Panel layout	
Prev. pg: F12	Page: F13	Next pg: F14	Total Pgs: 89



Wood-Mizer®

Project Description: WM4500 Standard

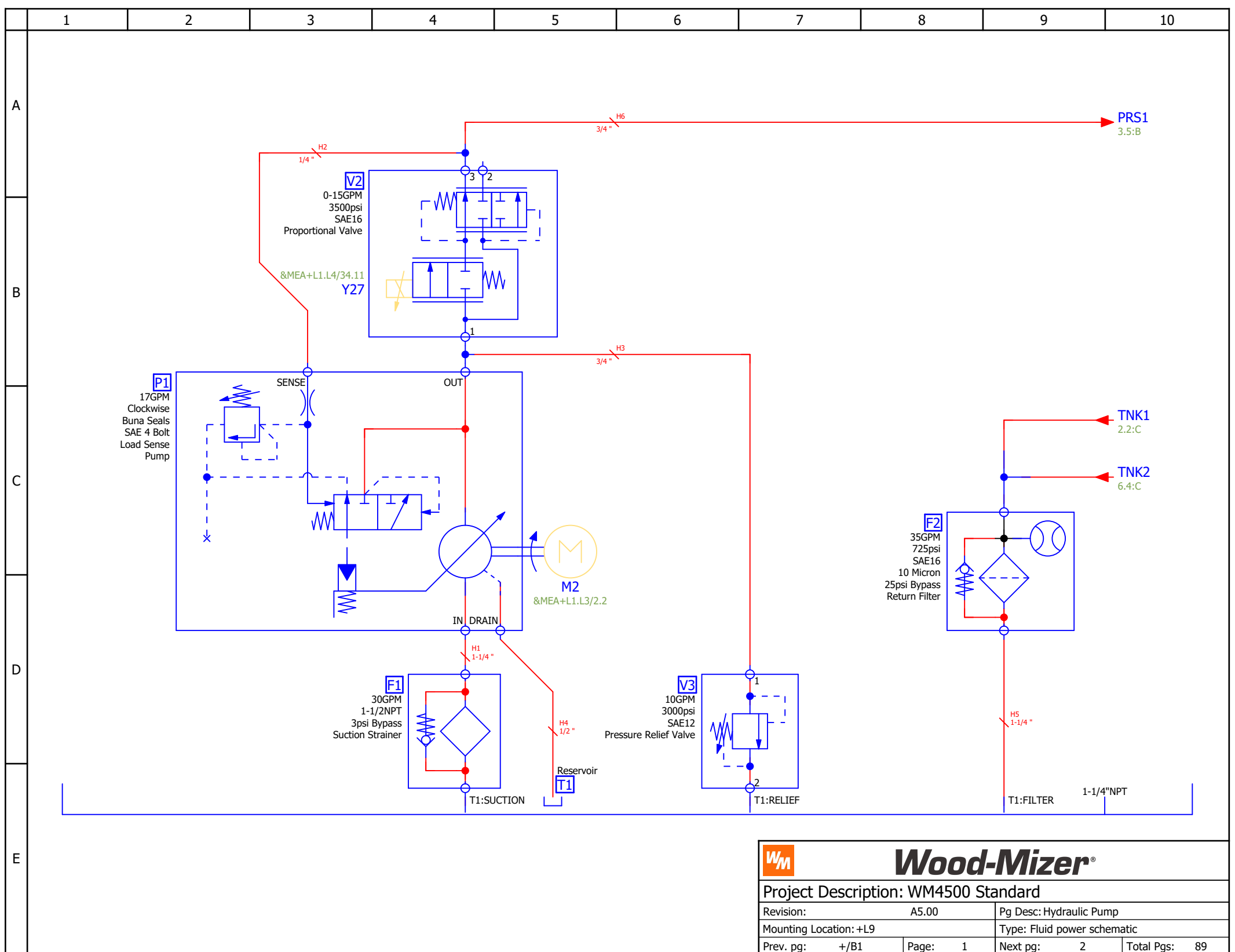
Revision:	A5.00	Pg Desc: Head Control Junction Layout
Mounting Location: +Docs		Type: Panel layout
Prev. pg: F13	Page: F14	Next pg: &MHA+/A1 Total Pgs: 89

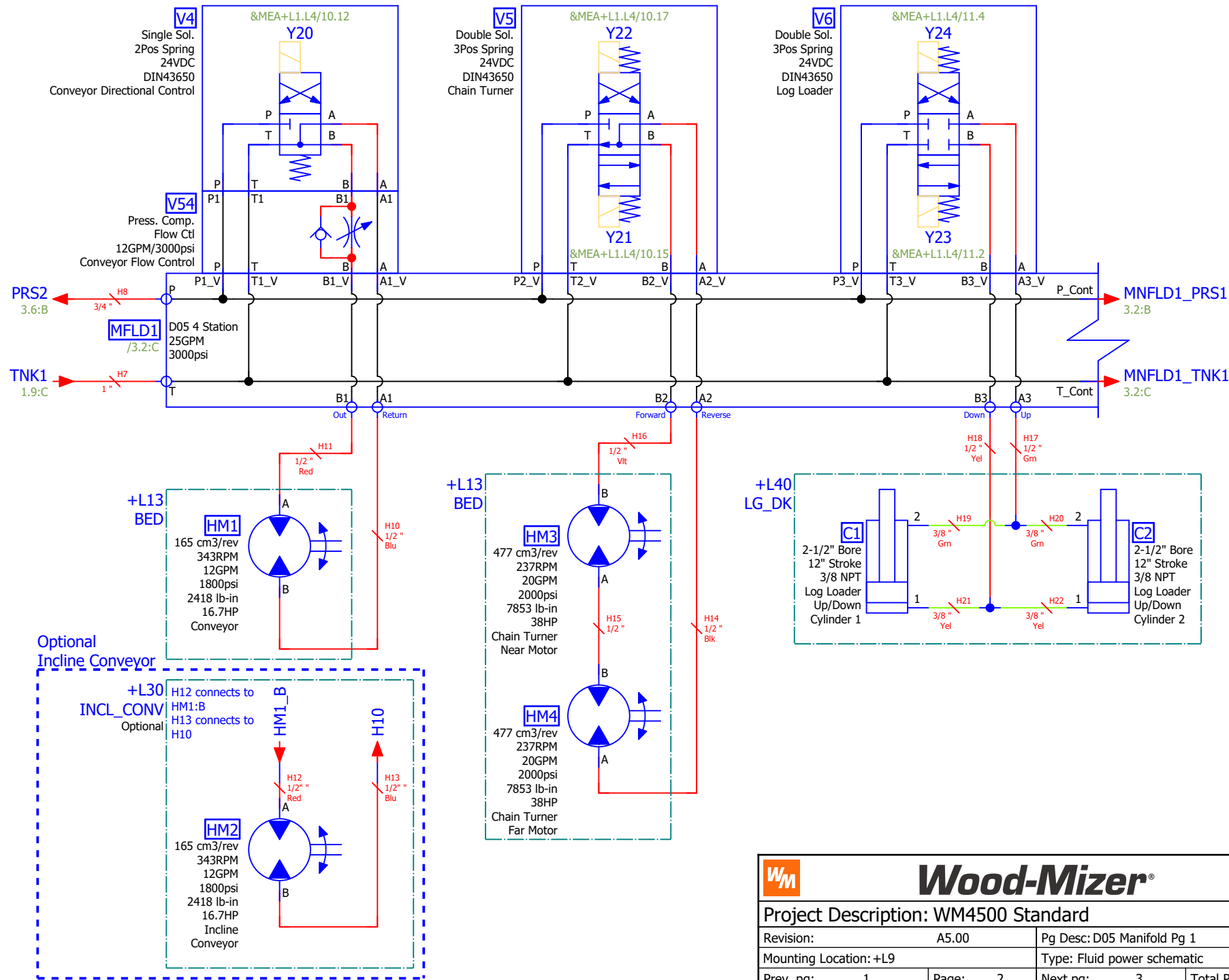
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 Wood-Mizer®			
Project Description: WM4500 Standard			
Revision: A5.00		Pg Desc: Table of contents	
Mounting Location: +		Type: Table of contents	
Prev. Rev: 801MEA+Docs/F14	Page: A1	Next pg: B1	Total Pgs: 89

Revision History

Date	Revision	Revision Record	Drawn By	Checked By
8/6/18	A1.00	Release to production	JRF	SDC
4/26/19	A2.00	Added Pull Down Clamp Functions	JRF	SDC
12/6/19	A3.00	Full Bed Extension	JRF	SDC
11/15/24	A5.00	New belt conveyor design. Conveyor motor hoses lengthened H10, H11. ECN's 39502 & 39571	SDC	***





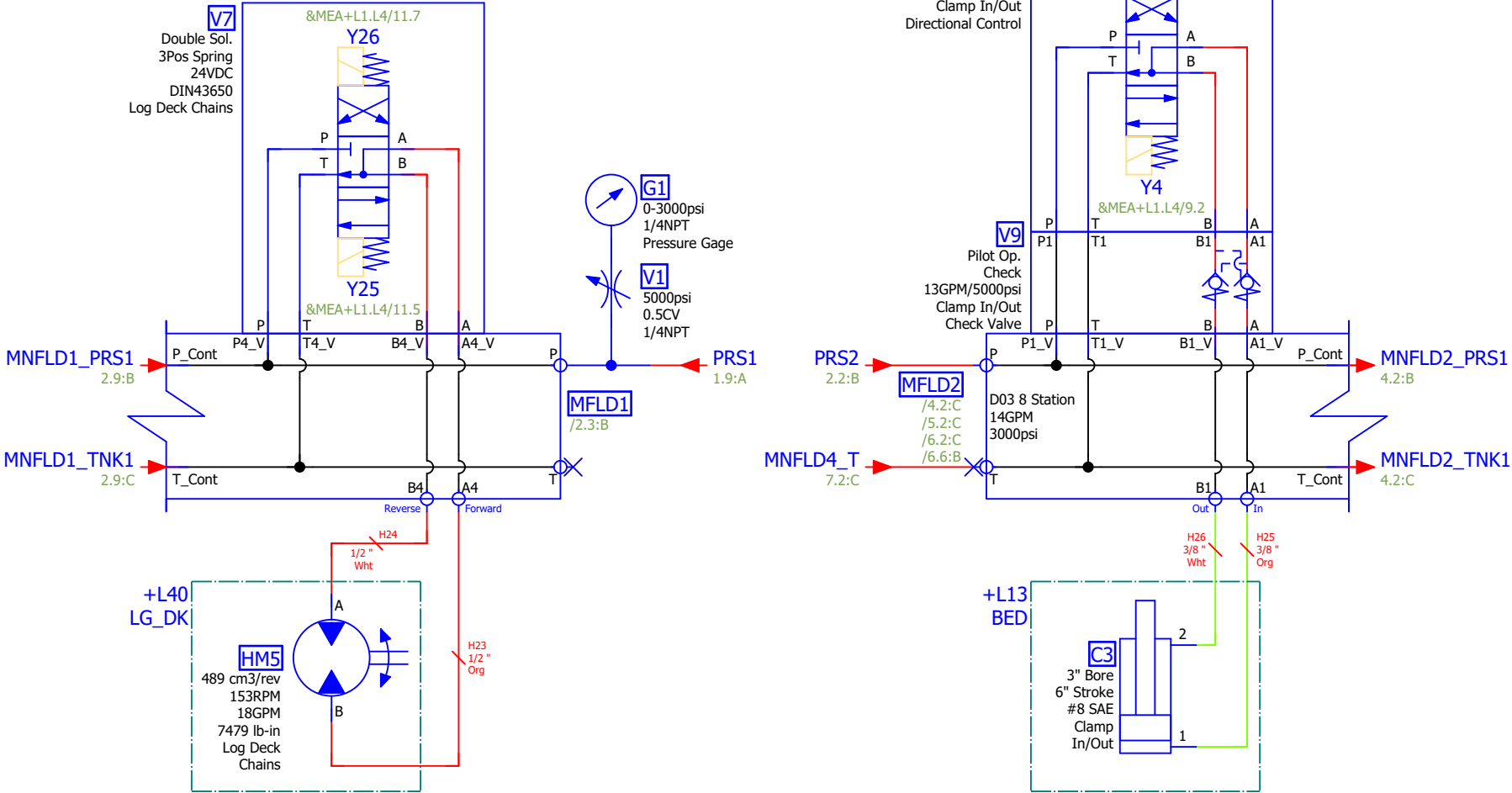
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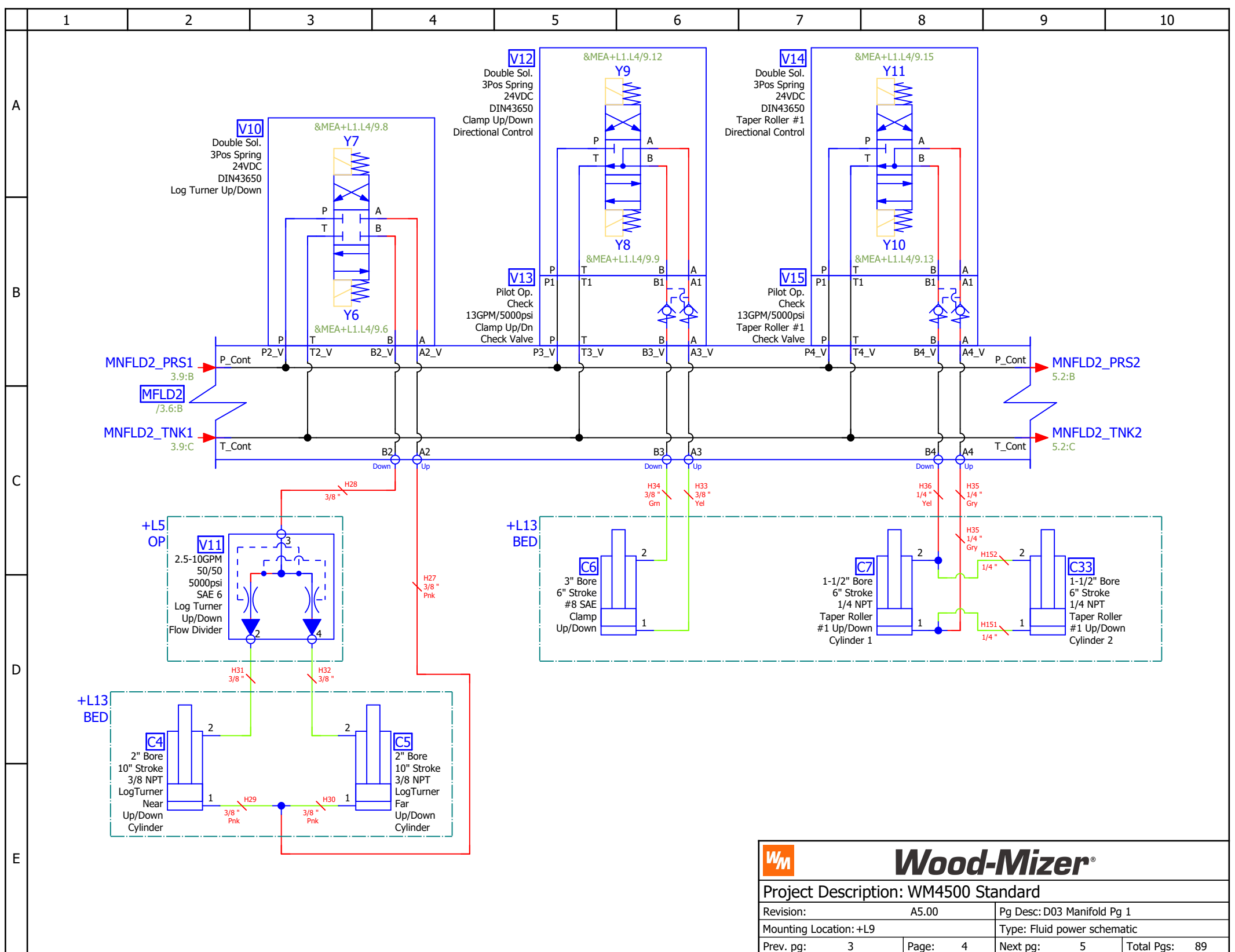
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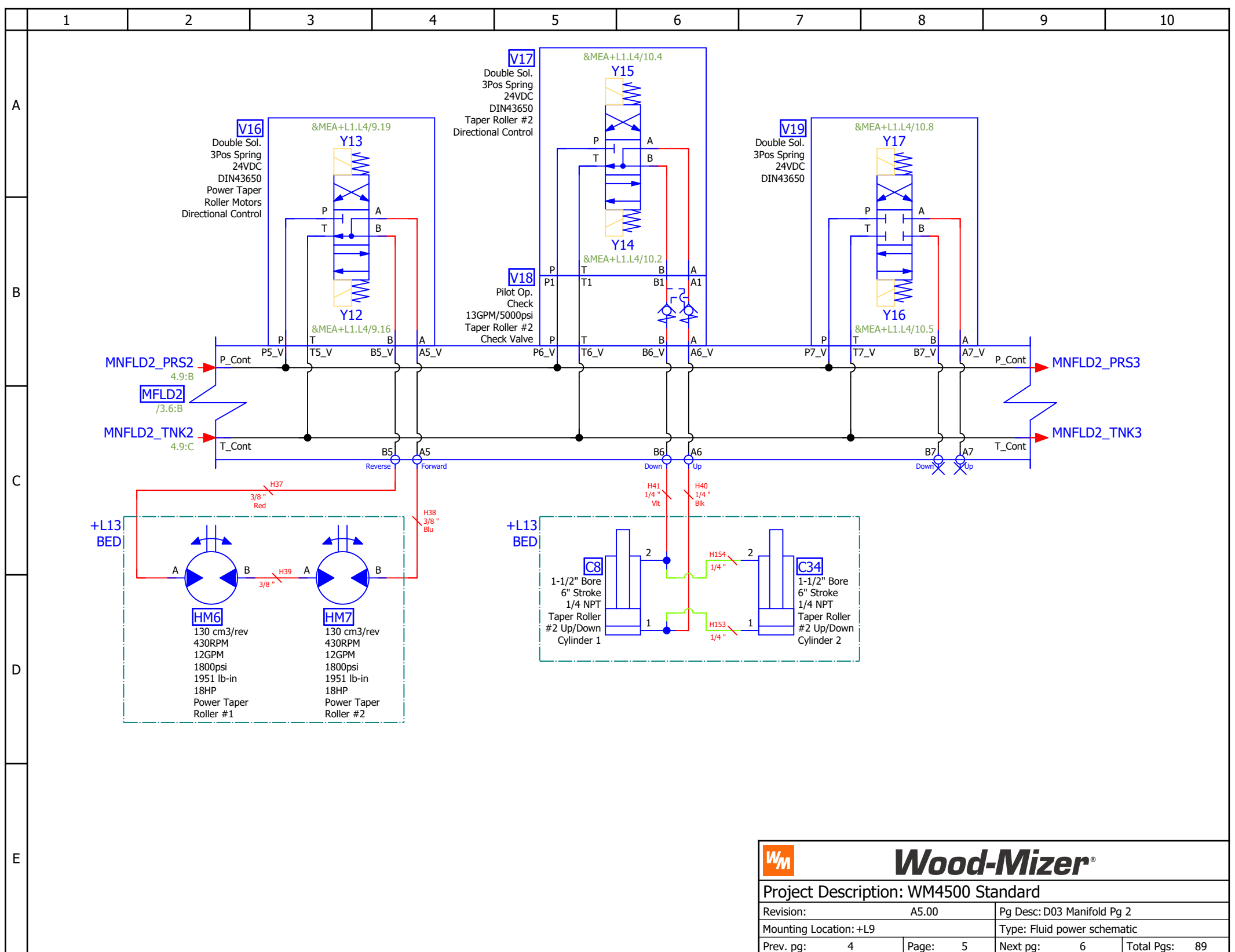
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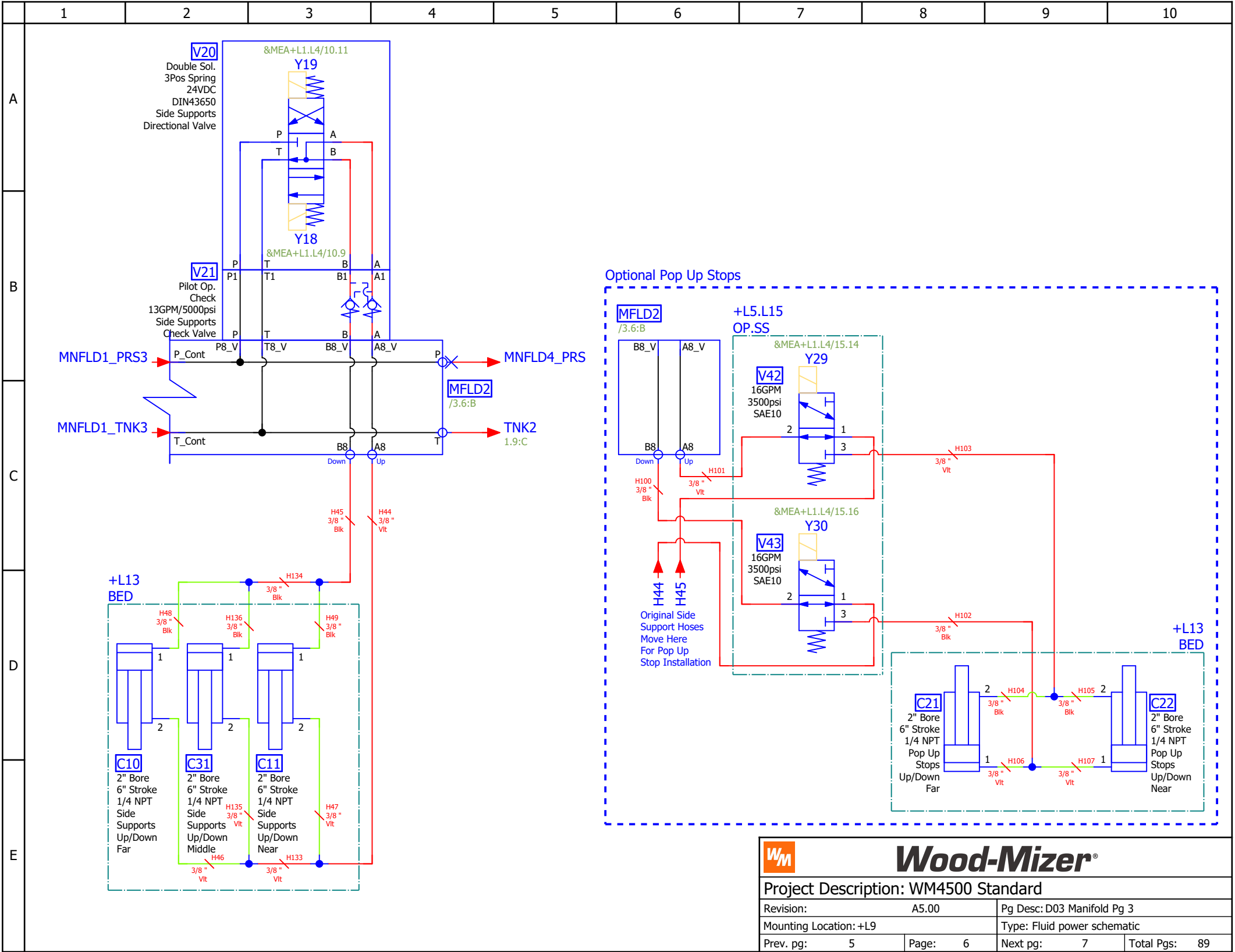
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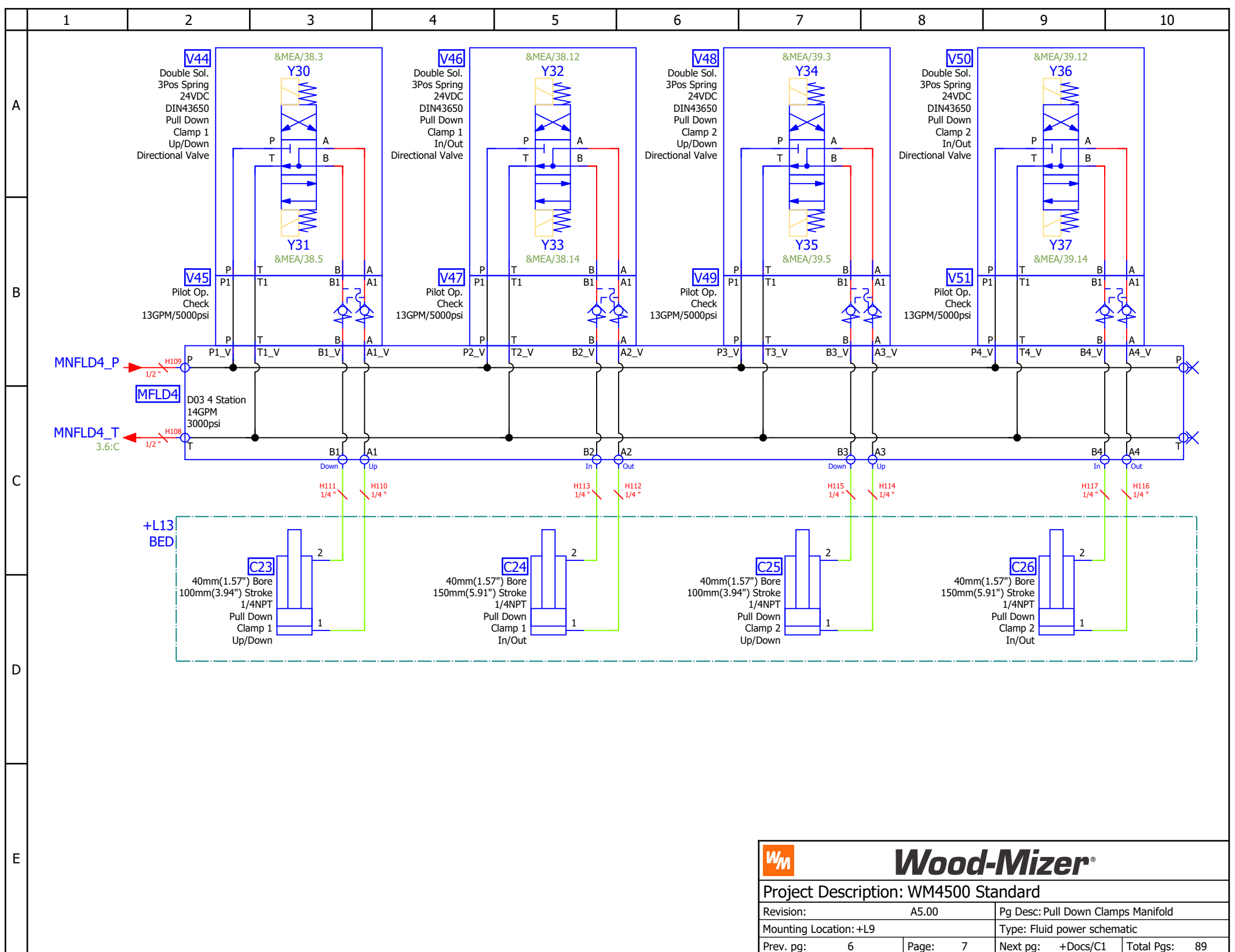
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Device Tag/Parts List

WM_PARTS_LIST_Fluid-Manual

Device tag	Function	Wood-Mizer Part Number	Wood-Mizer Description		Qty.	X-Ref
C1	Log Loader Up/Down Cylinder 1	050105	Cylinder, 2-1/2 Bore x 12x221/4		1	+L9/2.208:AC
C1	=	P12955	Seal Kit, 2 1/2x8 Hydraulic Cylinder	Replacement Seals	1	+L9/2.208:AC
C2	Log Loader Up/Down Cylinder 2	050105	Cylinder, 2-1/2 Bore x 12x221/4		1	+L9/2.209:AC
C2	=	P12955	Seal Kit, 2 1/2x8 Hydraulic Cylinder	Replacement Seals	1	+L9/2.209:AC
C3	Clamp In/Out	062700	Cylinder, Hyd 3x6		1	+L9/3.308:AC
C4	LogTurner Near Up/Down Cylinder	034267	Cylinder, 2x10 Rod End Welded 16"		1	+L9/4.402:AD
C4	=	003814	Seal Kit, Hyd Cylinder, 2x10 (034267)	Replacement Seals	1	+L9/4.402:AD
C5	LogTurner Far Up/Down Cylinder	034267	Cylinder, 2x10 Rod End Welded 16"		1	+L9/4.403:AD
C5	=	003814	Seal Kit, Hyd Cylinder, 2x10 (034267)	Replacement Seals	1	+L9/4.403:AD
C6	Clamp Up/Down	062700	Cylinder, Hyd 3x6		1	+L9/4.406:AC
C7	Taper Roller #1 Up/Down Cylinder 1	014482	Cylinder, 1 1/2x6 Rod End In Line Ports		1	+L9/4.408:AC
C7	=	014547	Seal Kit, 1 1/2x6 Hyd Cyl	Replacement Seals	1	+L9/4.408:AC
C8	Taper Roller #2 Up/Down Cylinder 1	014482	Cylinder, 1 1/2x6 Rod End In Line Ports		1	+L9/5.506:AC
C8	=	014547	Seal Kit, 1 1/2x6 Hyd Cyl	Replacement Seals	1	+L9/5.506:AC
C10	Side Supports Up/Down Far	035625	Cylinder, 2x6, 1/4 NPT Port		1	+L9/6.602:AD
C10	=	003812	Seal Kit, Hyd Cylinder, 2x6 (035625)	Replacement Seals	1	+L9/6.602:AD
C11	Side Supports Up/Down Near	035625	Cylinder, 2x6, 1/4 NPT Port		1	+L9/6.603:AD
C11	=	003812	Seal Kit, Hyd Cylinder, 2x6 (035625)	Replacement Seals	1	+L9/6.603:AD
C21	Pop Up Stops Up/Down Far	035625	Cylinder, 2x6, 1/4 NPT Port		1	+L9/6.609:AD
C21	=	003812	Seal Kit, Hyd Cylinder, 2x6 (035625)	Replacement Seals	1	+L9/6.609:AD
C22	Pop Up Stops Up/Down Near	035625	Cylinder, 2x6, 1/4 NPT Port		1	+L9/6.609:AD
C22	=	003812	Seal Kit, Hyd Cylinder, 2x6 (035625)	Replacement Seals	1	+L9/6.609:AD
C23	Pull Down Clamp 1 Up/Down	088662	CYLINDER, CJ7F-16-40/22/100 Dz + UE2-40W		1	+L9/7.703:AC
C24	Pull Down Clamp 1 In/Out	088661	CYLINDER, SJ2F-16-40/22/150 HYDRAULIC		1	+L9/7.705:AC
C25	Pull Down Clamp 2 Up/Down	088662	CYLINDER, CJ7F-16-40/22/100 Dz + UE2-40W		1	+L9/7.707:AC
C26	Pull Down Clamp 2 In/Out	088661	CYLINDER, SJ2F-16-40/22/150 HYDRAULIC		1	+L9/7.709:AC
C31	Side Supports Up/Down Middle	035625	Cylinder, 2x6, 1/4 NPT Port		1	+L9/6.602:AD
C31	=	003812	Seal Kit, Hyd Cylinder, 2x6 (035625)	Replacement Seals	1	+L9/6.602:AD
C33	Taper Roller #1 Up/Down Cylinder 2	014482	Cylinder, 1 1/2x6 Rod End In Line Ports		1	+L9/4.409:AC
C33	=	014547	Seal Kit, 1 1/2x6 Hyd Cyl	Replacement Seals	1	+L9/4.409:AC
C34	Taper Roller #2 Up/Down Cylinder 2	014482	Cylinder, 1 1/2x6 Rod End In Line Ports		1	+L9/5.507:AC
C34	=	014547	Seal Kit, 1 1/2x6 Hyd Cyl	Replacement Seals	1	+L9/5.507:AC
F1	Suction Strainer	078690	Strainer, Suction w/Bypass		1	+L9/1.104:AD
F2	Return Filter	078395	Filter, Hyd Cstr 35GPM 725psi wind SAE16		1	+L9/1.108:AC
F2	=	078341	Filter, Hyd. Element 10 Micron 25psi Byp	Replacement Element	1	+L9/1.108:AC
G1	Pressure Gage	068265	Gauge, Pressure VPG25N3KL		1	+L9/3.304:AB
HM1	Conveyor	P20206	Motor, Hydraulic, TB0165FP100AAAA		1	+L9/2.203:AD
HM1	=	061136	Kit, Hydraulic Motor Seal	Replacement Seals	1	+L9/2.203:AD
HM2	Incline Conveyor	P20206	Motor, Hydraulic, TB0165FP100AAAA		1	+L9/2.203:AE
HM2	=	061136	Kit, Hydraulic Motor Seal	Replacement Seals	1	+L9/2.203:AE
HM3	Chain Turner Near Motor	007331	Motor, Hydraulic, TG0475US0800AAFU		1	+L9/2.206:AC
HM4	Chain Turner Far Motor	007331	Motor, Hydraulic, TG0475US0800AAFU		1	+L9/2.206:AD
HM5	Log Deck Chains	056062	Motor, Hyd Log Deck		1	+L9/3.303:AC
HM6	Power Taper Roller #1	074281	Motor, Hydraulic, TB0130FP130AAAA		1	+L9/5.502:AD
HM6	=	061136	Kit, Hydraulic Motor Seal	Replacement Seals	1	+L9/5.502:AD
HM7	Power Taper Roller #2	074281	Motor, Hydraulic, TB0130FP130AAAA		1	+L9/5.503:AD



Wood-Mizer®

Project Description: WM4500 Standard

Revision: A5.00 Pg Desc: Parts list - Standard Bed

Mounting Location: +Docs Type: Parts list

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Device Tag/Parts List

WM_PARTS_LIST_Fluid-Manual

Device tag	Function	Wood-Mizer Part Number	Wood-Mizer Description		Qty.	X-Ref
HM7	Power Taper Roller #2	061136	Kit, Hydraulic Motor Seal	Replacement Seals	1	+L9/5.503:AD
MFLD1	D05 Power Unit Manifold	061190	D05, 4 Station Manifold		1	+L9/2.203:AB
MFLD1	=	078399	Plate, Cover D05 Valve	Covers For Optional Log Deck Valve Sections	2	+L9/2.203:AB
MFLD2	D03 Power Unit Manifold	061185	Manifold Shell Only, WM4000 AD03P082S		1	+L9/3.306:AB
MFLD4	D03 Pull Down Clamps Manifold	078885	Manifold, D03 4 Station AI SAE		1	+L9/7.702:AB
P1	Pump	078671	Pump, Hyd. 17GPM Piston Load Sense		1	+L9/1.102:AB
P1	=	078397	Adapter, C-Face Pump Mtr SAE B	Pump Mount	1	+L9/1.102:AB
P1	=	068252	Coupling, Pump		1	+L9/1.102:AB
P1	=	068253	Coupling, Motor		1	+L9/1.102:AB
P1	=	068254	Coupling, Insert		1	+L9/1.102:AB
V1	Pressure Gage Needle Valve	068264	Valve, Snubber MFG250BF		1	+L9/3.304:AB
V2	Proportional Valve	068273	Valve, Proportional PV72-30A	Complete Valve Assembly	1	+L9/1.103:AA
V2	=	061290	Block, Valve Body HF 7022350	Valve Body Only	1	+L9/1.103:AA
V2	=	078185	Valve, Proportional 15GPM PV72-30A	Valve Cartridge Only	1	+L9/1.103:AA
V2	=	068257	Valve, Proportional Cartridge PV72-30A	Valve Cartridge w/Coil	1	+L9/1.103:AA
V3	Pressure Relief Valve	078735	Valve, Relief 250-3000psi RV10-20A Cmplt	Complete Valve Assembly	1	+L9/1.106:AD
V3	=	078672	Valve, Body 10 Size 2-Way SAE 12	Valve Body Only	1	+L9/1.106:AD
V3	=	078673	Valve, Relief 250-3000psi RV10-20A Ctg	Valve Cartridge Only	1	+L9/1.106:AD
V4	Conveyor Directional Control	078686	Valve, D05 2Pos A-B Tank		1	+L9/2.203:AA
V5	Chain Turner	078685	Valve, D05 3Pos A-B Tank		1	+L9/2.205:AA
V6	Log Loader	078685	Valve, D05 3Pos A-B Tank		1	+L9/2.207:AA
V7	Log Deck Chains	078685	Valve, D05 3Pos A-B Tank		1	+L9/3.302:AA
V8	Clamp In/Out Directional Control	078683	Valve, D03 3Pos A-B Tank		1	+L9/3.307:AA
V9	Clamp In/Out Check Valve	078738	Valve, D03 PO Check		1	+L9/3.307:AB
V10	Log Turner Up/Down	078684	Valve, D03 3Pos Blocked		1	+L9/4.403:AA
V11	Log Turner Up/Down Flow Divider	025742	Flow Divider, Hydraulic		1	+L9/4.402:AC
V12	Clamp Up/Down Directional Control	078683	Valve, D03 3Pos A-B Tank		1	+L9/4.405:AA
V13	Clamp Up/Dn Check Valve	078738	Valve, D03 PO Check		1	+L9/4.405:AB
V14	Taper Roller #1 Directional Control	078683	Valve, D03 3Pos A-B Tank		1	+L9/4.407:AA
V15	Taper Roller #1 Check Valve	078738	Valve, D03 PO Check		1	+L9/4.407:AB
V16	Power Taper Roller Motors Directional Control	078683	Valve, D03 3Pos A-B Tank		1	+L9/5.503:AA
V17	Taper Roller #2 Directional Control	078683	Valve, D03 3Pos A-B Tank		1	+L9/5.505:AA
V18	Taper Roller #2 Check Valve	078738	Valve, D03 PO Check		1	+L9/5.505:AB
V19		078684	Valve, D03 3Pos Blocked		1	+L9/5.507:AA
V20	Side Supports Directional Valve	078685	Valve, D05 3Pos A-B Tank		1	+L9/6.602:AA
V21	Side Supports Check Valve	078738	Valve, D03 PO Check		1	+L9/6.602:AB
V42	Side Supports Up Selector	074286	Valve, 3-Way Selector		1	+L9/6.607:AC
V42	=	078448	Valve, Spool 3-Way Cartridge	Valve Cartridge Only	1	+L9/6.607:AC
V43	Side Supports Down Selector	074286	Valve, 3-Way Selector		1	+L9/6.607:AD
V43	=	078448	Valve, Spool 3-Way Cartridge	Valve Cartridge Only	1	+L9/6.607:AD
V44	Pull Down Clamp 1 Up/Down Directional Valve	078685	Valve, D05 3Pos A-B Tank		1	+L9/7.702:AA
V45	Pull Down Clamp 1 Up/Down Check Valve	078738	Valve, D03 PO Check		1	+L9/7.702:AB
V46	Pull Down Clamp 1 In/Out Directional Valve	078685	Valve, D05 3Pos A-B Tank		1	+L9/7.704:AA
V47	Pull Down Clamp 1 In/Out Check Valve	078738	Valve, D03 PO Check		1	+L9/7.704:AB
V48	Pull Down Clamp 2 Up/Down Directional Valve	078685	Valve, D05 3Pos A-B Tank		1	+L9/7.706:AA
V49	Pull Down Clamp 2 Up/Down Check Valve	078738	Valve, D03 PO Check		1	+L9/7.706:AB



Wood-Mizer®

Project Description: WM4500 Standard

Revision: A5.00 Pg Desc: Parts list - Standard Bed

Mounting Location: +Docs Type: Parts list

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Device Tag/Parts List

Device tag	Function	Wood-Mizer Part Number	Wood-Mizer Description		Qty.	X-Ref
V50	Pull Down Clamp 2 In/Out Directional Valve	078685	Valve, D05 3Pos A-B Tank		1	+L9/7.708:AA
V51	Pull Down Clamp 2 In/Out Check Valve	078738	Valve, D03 PO Check		1	+L9/7.708:AB
V54	Conveyor Flow Control	078737	Valve, Press Comp Flow Ctl 12GPM Cmplt		1	+L9/2.203:AB
V54	=	078681	Valve Body, D05 Sandwich Flow Ctl Port B	Valve Body Only	1	+L9/2.203:AB
V54	=		Valve, Press Comp Flow Ctl 12GPM	Valve Cartridge Only	1	+L9/2.203:AB

Hose/Tube list

WM_HydraulicHoseList

Hose/Tube	Wood-Mizer PN	Color	Diameter	Length	Description	XREF
H1	078736		1-1/4 "		Suction Tube	+L9/1.104:AD
H2	078761		1/4 "		Load Sense Line	+L9/1.104:AA
H3	078760		3/4 "		Pressure Relief Line	+L9/1.104:AB
H4	078767		1/2 "		Pump Case Drain	+L9/1.105:AD
H5	078767		1-1/4 "		Filter Tank Line	+L9/1.109:AD
H6	078760		3/4 "		Pressure Line From Proportional Valve	+L9/3.304:AB
H7	078760		1 "		Tank Line From Manifold 1	+L9/1.109:AC
H8	078763		3/4 "		Pressure Line Manifold 1 To Manifold 2	+L9/2.203:AB
H10	079004-555	Blu	1/2 "	555"	Conveyor Return Line	+L9/2.203:AD
H11	079004-555	Red	1/2 "	555"	Conveyor Out Line	+L9/2.203:AD
H12	079004-156	Red	1/2" "	156"	Incline Conveyor Out	+L9/2.203:AE
H13	079004-156	Blu	1/2" "	156"	Incline Conveyor Return	+L9/2.204:AE
H14	079004-334	Blk	1/2 "	334"	Turner (Far) Motor	+L9/2.206:AD
H15	079004-132		1/2 "	132"	Turner (Near) Motor to Turner (Far) Motor	+L9/2.206:AC
H16	079004-350	Vlt	1/2 "	350"	Turner (Near) Motor	+L9/2.206:AC
H17	079004-310	Grn	1/2 "	310"	Log Loader Up T	+L9/2.208:AC
H18	079004-310	Yel	1/2 "	310"	Log Loader Down T	+L9/2.208:AD
H19	079001-72	Grn	3/8 "	72"	Log Loader Up T to C1	+L9/2.208:AC
H20	079001-72	Grn	3/8 "	72"	Log Loader Up T to C2	+L9/2.208:AC
H21	079001-72	Yel	3/8 "	72"	Log Loader Down T to C1	+L9/2.208:AD
H22	079001-72	Yel	3/8 "	72"	Log Loader Down T to C2	+L9/2.208:AD
H23	079004-310	Org	1/2 "	310"	Log Deck Forward Line	+L9/3.303:AC
H24	079004-310	Wht	1/2 "	310"	Log Deck Reverse Line	+L9/3.303:AC
H25	079001-364	Org	3/8 "	364"	Clamp In Line	+L9/3.308:AC
H26	079001-364	Wht	3/8 "	364"	Clamp Out Line	+L9/3.308:AC
H27	079001-275	Pnk	3/8 "	275"	Log Turner Up T	+L9/4.403:AE
H28	079001-85		3/8 "	85"	Log Turner Down Flow Divider	+L9/4.404:AC
H29	079001-19	Pnk	3/8 "	19"	Log Turner Up T To Cylinder Near	+L9/4.403:AE
H30	079001-39	Pnk	3/8 "	39"	Log Turner Up T To Cylinder Far	+L9/4.403:AE
H31	079001-200		3/8 "	200"	Log Turner Down FD2 To Cylinder Near	+L9/4.402:AD
H32	079001-216		3/8 "	216"	Log Turner Down FD4 To Cylinder Far	+L9/4.403:AD
H33	079001-364	Yel	3/8 "	364"	Clamp Up Line	+L9/4.406:AC
H34	079001-364	Grn	3/8 "	364"	Clamp Down Line	+L9/4.406:AC
H35	079000-267	Gry	1/4 "	267"	Taper Roller #1 Up Line	+L9/4.408:AD
H36	079000-270	Yel	1/4 "	270"	Taper Roller #1 Down Line	+L9/4.408:AC
H37	079001-276	Red	3/8 "	276"	Power Toe Roller #1 Motor	+L9/5.502:AD
H38	079001-348	Blu	3/8 "	348"	Power Toe Roller #2 Motor	+L9/5.503:AD
H39	079001-154		3/8 "	154"	Power Toe Roller #1 Motor to #2 Motor	+L9/5.502:AD
H40	079000-333	Blk	1/4 "	333"	Taper Roller #2 Up Line	+L9/5.506:AD



Wood-Mizer®

Project Description: WM4500 Standard

Revision:	A5.00	Pg Desc:	Hose/Tube List-Standard Bed
Mounting Location:	+Docs	Type:	Connection list
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Hose/Tube list

WM_HydraulicHoseList

Hose/Tube	Wood-Mizer PN	Color	Diameter	Length	Description	XREF
H41	079000-335	Vlt	1/4 "	3358"	Taper Roller #2 Down Line	+L9/5.506:AC
H44	079001-190	Vlt	3/8 "	190"	Side Supports Down T1	+L9/6.603:AE
H45	079001-190	Blk	3/8 "	190"	Side Supports Up T1	+L9/6.603:AD
H46	079001-120	Vlt	3/8 "	120"	Side Supports Up T2 to Far Cylinder	+L9/6.602:AE
H47	079001-51	Vlt	3/8 "	51"	Side Supports Up T1 to Near Cylinder	+L9/6.603:AE
H48	079001-122	Blk	3/8 "	122"	Side Supports Down T2 to Far Cylinder	+L9/6.603:AD
H49	079001-51	Blk	3/8 "	51"	Side Supports Down T1 to Near Cylinder	+L9/6.603:AD
H100	079001-190	Blk	3/8 "	190"	Pop Up Stops Down Selector 2	+L9/6.606:AC
H101	079001-41	Vlt	3/8 "	41"	Pop Up Stops Up Selector 2	+L9/6.606:AC
H102	079001-41	Blk	3/8 "	41"	Pop Up Stops Down Selector 3 To T	+L9/6.609:AD
H103	079001-41	Vlt	3/8 "	41"	Pop Up Stops Up Selector 3 To T	+L9/6.609:AD
H104	079001-41	Blk	3/8 "	41"	Pop Up Down T To Cylinder 1	+L9/6.609:AD
H105	079001-41	Blk	3/8 "	41"	Pop Up Down T To Cylinder 2	+L9/6.609:AD
H106	079001-41	Vlt	3/8 "	41"	Pop Up Stops Up T To Cylinder 1	+L9/6.609:AD
H107	079001-41	Vlt	3/8 "	41"	Pop Up Stops Up T To Cylinder 2	+L9/6.609:AD
H108	079004-44		1/2 "	44"	Pull Down Clamps Manifold Tank Line	+L9/3.306:AC
H110	079000-456		1/4 "	456"	Pull Down Clamp 1 Up Line	+L9/7.703:AC
H111	079000-456		1/4 "	456"	Pull Down Clamp 1 Down Line	+L9/7.703:AC
H112	079000-456		1/4 "	456"	Pull Down Clamp 1 Out Line	+L9/7.705:AC
H113	079000-456		1/4 "	456"	Pull Down Clamp 1 In Line	+L9/7.705:AC
H114	079000-336		1/4 "	336"	Pull Down Clamp 2 Up Line	+L9/7.707:AC
H115	079000-336		1/4 "	336"	Pull Down Clamp 2 Down Line	+L9/7.707:AC
H116	079000-336		1/4 "	336"	Pull Down Clamp 2 Out Line	+L9/7.709:AC
H117	079000-336		1/4 "	336"	Pull Down Clamp 2 In Line	+L9/7.709:AC
H133	079001-41	Vlt	3/8 "	41"	Side Supports Up T1 To T2	+L9/6.602:AE
H134	079001-41	Blk	3/8 "	41"	Side Supports Down T1 To T2	+L9/6.603:AD
H135	079001-55	Vlt	3/8 "	55"	Side Supports Up T2 to Middle Cylinder	+L9/6.602:AE
H136	079001-59	Blk	3/8 "	59"	Side Supports Down T2 to Middle Cylinder	+L9/6.603:AD
H151	079000-		1/4 "		Taper Roller #1 Up Line 2	+L9/4.408:AD
H152	079000-		1/4 "		Taper Roller #1 Down Line 2	+L9/4.408:AC
H153	079000-		1/4 "		Taper Roller #2 Up Line 2	+L9/5.506:AD
H154	079000-		1/4 "		Taper Roller #2 Down Line 2	+L9/5.506:AC



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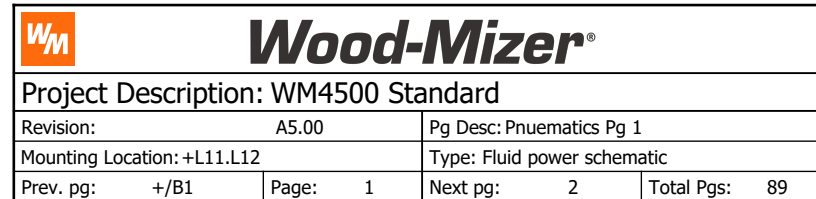
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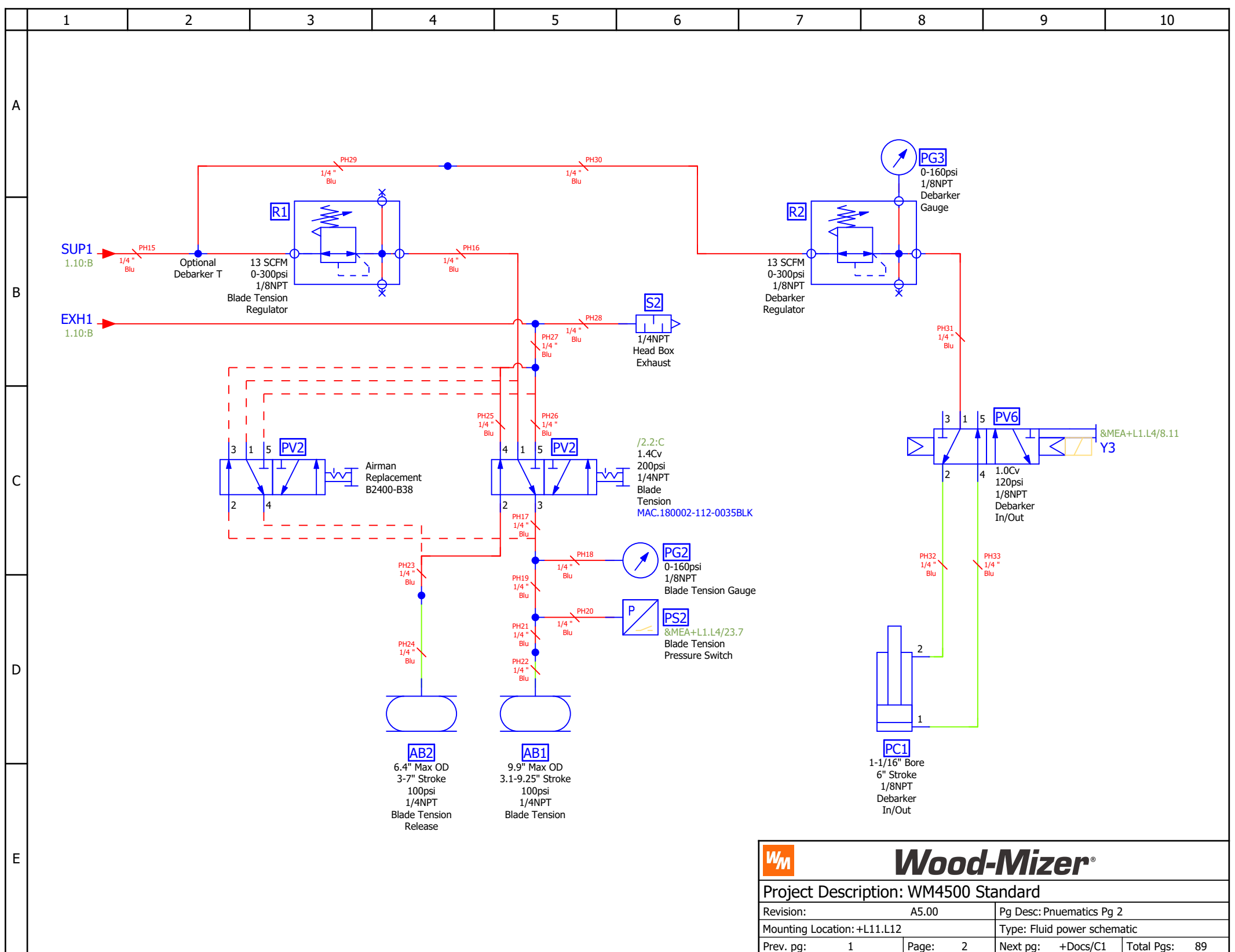
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Revision History

Date	Revision	Revision Record	Drawn By	Checked By
8/6/18	A1.00	Release to production	JRF	SDC





Device Tag/Parts List

WM_PARTS_LIST_Fluid-Manual

Device tag	Function	Wood-Mizer Part Number	Wood-Mizer Description		Qty.	X-Ref
AB1	Blade Tension	033229	Bag, Tensioner Air		1	+L11.L12/2.205:AD
AB2	Blade Tension Release	033231	Bag, Motor Lift Air		1	+L11.L12/2.204:AD
AB3	Blade Brake Release	033168	Bag, Air Brake		1	+L11.L12/1.109:AD
AB4	Drag Back Lift	033231	Bag, Motor Lift Air		1	+L11.L12/1.107:AD
FR1	Filter/Regulator	110953	Air Filter/Regulator		1	+L11.L12/1.104:AA
FR1	=	110956	Assy, Air Filter Mount	Mount	1	+L11.L12/1.104:AA
PC1	Debarker In/Out	008766	Cylinder, 1-1/16x6, Air		1	+L11.L12/2.208:AD
PG1	Main Pressure Gauge	P02766	Gauge, 160 PSI, 1-1/2 Dia, 1/8 NPT		1	+L11.L12/1.106:AA
PG2	Blade Tension Gauge	042342	Gauge, Air Pressure		1	+L11.L12/2.206:AC
PG3	Debarker Gauge	042342	Gauge, Air Pressure		1	+L11.L12/2.208:AA
PV1	Main Shut-Off	P21513	Valve, Air		1	+L11.L12/1.104:AB
PV2	Airman Replacement;Blade Tension	025301	Valve, Push Pull 4 Way 1/4 NPT		2	+L11.L12/2.202:AC +L11.L12/2.205:AC
PV3	Blade Brake Release	045225	Valve, Air 3 Way 1/8 NPT Din C Conn		1	+L11.L12/1.109:AC
PV4	Blow-Off	042659	Valve Assy, Air		1	+L11.L12/1.102:AC
PV5	Drag Back Lift	042659	Valve Assy, Air		1	+L11.L12/1.107:AC
PV6	Debarker In/Out	025244	Valve, MAC 400 Series		1	+L11.L12/2.208:AC
R1	Blade Tension Regulator	052509	Regulator, 1/8" NPT Air		1	+L11.L12/2.203:AB
R2	Debarker Regulator	052509	Regulator, 1/8" NPT Air		1	+L11.L12/2.207:AB
S1	Shut-Off Muffler	P20904	Mufflet, 1/4 in. NPT Air		1	+L11.L12/1.103:AB
S2	Head Box Exhaust	P20904	Mufflet, 1/4 in. NPT Air		1	+L11.L12/2.206:AB
S3	Drag Back Lift Muffler	P21528	Mufflet, CEC-3 3/8 in. NPT Air		1	+L11.L12/1.107:AC
Z1	Blow-Off	016879	Block, Blow-Off 1/2		1	+L11.L12/1.102:AD
Z2	Air Nozzle	P02714	Nozzle, Coolant Spray		1	+L11.L12/1.107:AA



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Hose/Tube list

WM_HydraulicHoseList

Hose/Tube	Wood-Mizer PN	Color	Diameter	Length	Description	XREF
PH1	R01869-5	Blu	1/2 "	960"	Blow-Off Supply Line	+L11.L12/1.102:AB
PH2	R01869-5	Blu	1/2 "	31"	Blow-Off Supply Line Head Box	+L11.L12/1.102:AB
PH3	R01869-5	Blu	1/2 "	33"	Blow-Off Output Line Head Box	+L11.L12/1.102:AD
PH4	R01869-5	Blu	1/2 "		Blow-Off Output Line	+L11.L12/1.102:AD
PH5	R01869-4	Blu	1/2 "	960"	Head Supply Line	+L11.L12/1.106:AB
PH6	042453		1/4 "		Air Nozzle Hose	+L11.L12/1.106:AB
PH7	R01869-4	Blu	3/8 "		Drag Back Fingers Lift Line	+L11.L12/1.107:AD
PH7	R01869-4	Blu	3/8 "	10"	Drag Back Fingers Supply Line	+L11.L12/1.107:AB
PH8	R01869-3	Blu	1/4 "	22"	Supply Line Head Box	+L11.L12/1.109:AB
PH9	R01869-3	Blu	1/4 "	7.5"	Blade Brake Supply Line	+L11.L12/1.109:AB
PH10	R01869-3	Blu	1/4 "	10"	Blade Brake Line Valve To Y	+L11.L12/1.109:AC
PH11	R01869-3	Blu	1/4 "	29.5"	Blade Brake Line Y To Pressure Switch	+L11.L12/1.109:AC
PH12	R01869-3	Blu	1/4 "	6.5"	Blade Brake Line Y To Bulkhead	+L11.L12/1.109:AD
PH13	R01869-3	Blu	1/4 "		Blade Brake Line Bulkhead To Brake	+L11.L12/1.109:AD
PH14	R01869-3	Blu	1/4 "	8.5"	Blade Brake Exhaust Valve To Y	+L11.L12/2.205:AB
PH15	R01869-3	Blu	1/4 "	3"	Blade Tension Supply Y To Regulator	+L11.L12/1.109:AB
PH16	R01869-3	Blu	1/4 "	6.5"	Blade Tension Supply Regulator To Valve	+L11.L12/2.205:AC
PH17	R01869-3	Blu	1/4 "	3"	Blade Tension Line Valve To Pressure Gauge T	+L11.L12/2.205:AC
PH18	R01869-3	Blu	1/4 "	1.5"	Blade Tension Line T To Pressure Gauge	+L11.L12/2.205:AC
PH19	R01869-3	Blu	1/4 "	9"	Blade Tension Line Pressure Gauge T To Pressure Switch Y	+L11.L12/2.205:AD
PH20	R01869-3	Blu	1/4 "	9"	Blade Tension Line Y To Pressure Switch	+L11.L12/2.205:AD
PH21	R01869-3	Blu	1/4 "	10.5"	Blade Tension Line Y To Bulkhead	+L11.L12/2.205:AD
PH22	R01869-3	Blu	1/4 "		Blade Tension Line Bulkhead To Air Bag	+L11.L12/2.205:AD
PH23	R01869-3	Blu	1/4 "	22"	Blade Tension Release Valve To Bulkhead	+L11.L12/2.204:AD
PH24	R01869-3	Blu	1/4 "		Blade Tension Release Bulkhead To Air Bag	+L11.L12/2.204:AD
PH25	R01869-3	Blu	1/4 "	3.5"	Blade Tension Exhaust Valve To Y	+L11.L12/2.205:AB
PH26	R01869-3	Blu	1/4 "	3.5"	Blade Tension Exhaust Valve To Y	+L11.L12/2.205:AB
PH27	R01869-3	Blu	1/4 "	5"	Blade Tension Exhaust Y To Y	+L11.L12/2.205:AB
PH28	R01869-3	Blu	1/4 "	18"	Head Box Exhaust Y To Muffler	+L11.L12/2.205:AB
PH29	R01869-3	Blu	1/4 "		Debarker Supply T To Bulkhead	+L11.L12/2.204:AA
PH30	R01869-3	Blu	1/4 "		Debarker Supply Bulkhead To Regulator	+L11.L12/2.204:AA
PH31	R01869-3	Blu	1/4 "		Debarker Supply Regulator To Valve	+L11.L12/2.208:AC
PH32	R01869-3	Blu	1/4 "		Debarker In Line Valve To Cylinder	+L11.L12/2.208:AD
PH33	R01869-3	Blu	1/4 "		Debarker Out Line Valve To Cylinder	+L11.L12/2.208:AD

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