

Service Bulletin

Machinery Affected: Cyber®, Cyber® A/T, SmartSet®, and SmartSet®

Pro Saws

Document: SB180

Title: Replacing a *GE*[®] AF-300 E11 VFD with a *GE* AF-

300 Mini VFD

All Cyber and Cyber A/T Saws Shipped Before
Applies To: 15 November 2007, All SmartSet and SmartSet

Pro Saws Shipped before 1 November 2007



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MiTek

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Revised 26 March 2009 Revised By R. Tucker Date Created 25 October 2007 Created By R. Widder Reviewed by R. Tucker Approved by G. McNeelege Applicability 77500-501, 60000-530 Effectivity Cyber and Cyber A/T saws shipped before 15 November 2007, SmartSet and SmartSet Pro saws shipped before 1 November 2007	Item #	SB180 Rev. A
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and SmartSet Pro saws shipped	Effectivity	Cyber and Cyber A/T saws shipped
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before 1 November 2007		and SmartSet Pro saws shipped
		before 1 November 2007



Purpose and Scope

The $Cyber^{\mathbb{R}}$, Cyber A/T, $SmartSet^{\mathbb{R}}$, and SmartSetPro saws use $GE^{\mathbb{R}}$ AF-300 E11 VFDs (variable frequency drives) that have been discontinued. If these VFDs require replacement, they must be replaced with the new AF-300 Mini VFD.

Overview

The parts included in each kit are shown in Table 1 through Table 3. Please ensure all parts are present before starting this procedure.

Table 1: Parts for ANGLE and/or CENTERLINE VFD Replacement

Saw Model		Cyher A/T Cyher		SmartSet Pro (angle)	SmartSet	
Qty.	Part Description	SB180KIT-A	SB180KIT-J	SB180KIT-D	N/A	
1	Service Bulletin	SB180A	SB180D	SB180B	N/A	
1	VFD, 1hp	94001 94026		94004	N/A	
1 ea	Drawing included	90507	0507 92034		N/A	

Table 2: Parts for CARRIAGE VFD Replacement

Saw Model		Cyber A/T Cyber 1		SmartSet Pro	SmartSet	
Qty.	Part Description	SB180KIT-B	SB180KIT-K	SB180KIT-E	SB180KIT-G	
1	Service Bulletin	SB180A	SB180D	SB180B	SB180C	
1	VFD, 2hp	94002	94027	94005	94007	
4	8-32x1/2" round head machine screw	341068	341068	341068	341068	
1 ea	Drawings included	90507	92034	90129	90124	

Table 3: Parts for INFEED VFD Replacement

Saw Model		Cyber A/T	Cyber	SmartSet Pro	SmartSet
Qty.	Part Description	SB180KIT-C	SB180KIT-L	SB180KIT-F	SB180KIT-H
1	Service Bulletin	SB180A	SB180D	SB180B	SB180C
1	VFD, 2hp	94003	94028	94006	94008
4	8-32x1/2" round head machine screw	341068	341068	341068	341068
1 ea	Drawings included	90507	92034	90129	90124

SB180 Rev. A 2 of 11



Before beginning the procedure, gather the supplies listed in Table 4.

Table 4: Customer-Supplied Items

Qty.	Part Description
1	Phillips screwdriver set
1	Drill
1	#29 drill bit
1	8/32 tap
1	Marker or grease pencil

If you have any questions, call MiTek Machinery Division Customer Service at 800-523-3380.

SB180 Rev. A 3 of 11



Procedure



Electrical Lockout/Tagout Procedures

WARNING
ELECTROCUTION HAZARD!
Verify that all power to the machine has been turned off and follow approved lockout/tagout safety procedures before performing any maintenance.
All electrical work must performed by a qualified electrician.
If it is absolutely necessary to troubleshoot an energized machine, follow NFPA 70E for proper procedures and personal protective equipment.

Before opening the main electrical enclosure, or attempting to repair or replace an electrical transmission line to the machine, lockout/tagout the machine properly. Follow your company's approved lockout/tagout procedures which should include, but are not limited to the steps here.

- 1. Engage an E-stop on the machine.
- 2. Turn the machine's disconnect switch to the "off" position. This is usually required to open the main electrical enclosure's door.
- 3. Shut the power to the machine off at the machine's power source which is usually an electrical service entry panel on the facility wall. One example of a locked-out power source panel is shown in Figure 1.
- 4. Attach a lock and tag that meets OSHA requirements for lockout/tagout to the electrical service entry panel.
- 5. Open the door to the enclosure in which you need access, and using a multimeter, verify that the power is off.

SB180 Rev. A 4 of 11



Figure 1: Lockout/Tagout on the Power Source Panel



Pneumatic System Lockout/Tagout Procedure

WARNING
MOVING PARTS CAN CRUSH AND CUT.
Always verify that power to the machine has been turned off and follow approved lockout/tagout procedures.
Turn off the air switch before performing any maintenance on the equipment.



SB180 Rev. A 5 of 11



Replacing the VFD

Removing the VFD

- 1. Disconnect all wiring from the VFD, noting how it is wired.
- 2. Unscrew and remove the hardware attaching the VFD. Keep the hardware for reuse.
- 3. Remove the VFD.

Attaching the New VFD (1-hp VFD)

- 1. Place the new VFD in the same location as the VFD you removed.
- 2. Mark the location of the VFD mounting holes on the enclosure.
- 3. Remove the VFD.
- 4. Drill holes at the marked locations using a #29 drill bit. Drill the holes from the inside of the enclosure to the outside. Cover electrical components with clean rags if there is a risk of shavings falling onto them.
- 5. Tap the holes to 8/32.
- 6. Attach the VFD using the same hardware you removed and tighten the screws.
- 7. Vacuum any debris out of the electrical enclosure.

CAUTION

Do not use compressed air to blow out debris in the electrical enclosure! This may force contaminants into components. NEVER use water in an electrical enclosure.

SB180 Rev. A 6 of 11



Attaching the New VFD (2-hp VFD).

- 1. Place the new VFD in the same location as the VFD you removed
- 2. Attach the VFD using the 8-32x1/2-in. screws provided in your kit.
- 3. Tighten the screws.
- 4. Vacuum any debris out of the electrical enclosure.

Connecting the VFD (Cyber A/T Saw)

Some wires with butt splices are preconnected to the VFD before shipping. If the drawing indicates you should connect a wire to that terminal, connect it to the butt splice, then crimp the splice into place as seen in Figure 3.

Figure 3: Crimp Butt Splice



Figure 2: New 2hp VFD on a Cyber A/T Saw



SB180 Rev. A 7 of 11



To connect wires to the new VFD, find the correct VFD on Drawing 90507. Connect the wires as indicated in Table 5.

Table 5: Old and New Terminal Connections, Cyber A/T Saw

Wire	Old Terminal	New Terminal		
T#A/B/C-L1	R	R		
T#A/B/C-L2	S	S		
T#A/B/C-L3	Т	T		
T#B-T1	U	U		
T#B-T2	V	V		
T#B-T3	W	W		
1T	С	C, and may also daisy chain to other VFDs		
VFD Fault	В	В		
Common	СМ	СМ		
Common	11	11		
+10V	12	12		
REV/RAISE	REV	REV		
FWD/EXTEND	FWD	FWD		
RESET	X5	Х3		
+24 VDC	Y1	Y1		
-24 VDC	CME	Y1E		

SB180 Rev. A 8 of 11



Connecting the VFD (Cyber Saw)

Some wires with butt splices are preconnected to the VFD before shipping. If the drawing indicates you should connect a wire to that terminal, connect it to the butt splice, then crimp the splice into place as seen in Figure 3.

To connect wires to the new VFD, find the correct VFD on Drawing 92034. Connect the wires as indicated in Table 6.

Table 6: Old and New Terminal Connections, Cyber Saw

Wire	Old Terminal	New Terminal		
T#A/B-L1	R	R		
T#A/B-L2	S	S		
T#A/B-L3	Т	Т		
T#B-T1	U	U		
T#B-T2	V	V		
T#B-T3	W	W		
18	С	C, and may also daisy chain to other VFDs		
VFD Fault	В	В		
Common	SD	CM		
Common	5	11		
+10V	2	12		
REV/UP	STR	REV		
FWD/DOWN	STF	FWD		

SB180 Rev. A 9 of 11



Connecting the VFD (SmartSet Pro Saw)

Some wires with butt splices are preconnected to the VFD before shipping. If the drawing indicates you should connect a wire to that terminal, connect it to the butt splice, , then crimp the splice into place as seen in Figure 3.

To connect wires to the new VFD, find the correct VFD on Drawing 90129. Connect the wires as indicated in Table 7.

Table 7: Old and New Terminal Connections, SmartSet Pro Saw

Old Terminal	New Terminal
R	R
S	S
Т	Т
U	U
V	V
W	W
CM	CM
X1	X1
X2	X2
X3	X3
X5	_
VFD Fault	30A
1	30C, and may also daisy chain to other VFDs
REV	REV
FWD	FWD

SB180 Rev. A 10 of 11



Connecting the VFD (SmartSet Saw)

Some wires with butt splices are preconnected to the VFD before shipping. If the drawing indicates you should connect a wire to that terminal, connect it to the butt splice, then crimp the splice into place as seen in Figure 3.

To connect wires to the new VFD, find the correct VFD on Drawing 90124. Connect the wires as indicated in Table 8.

Table 8: Old and New Terminal Connections, SmartSet Saw

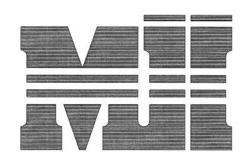
Old Terminal	New Terminal
R	R
S	S
Т	T
U	U
V	V
W	W
CM	CM
REV	REV
FWD	FWD
11	11
12	12
13	13

END OF SERVICE BULLETIN

SB180 Rev. A 11 of 11

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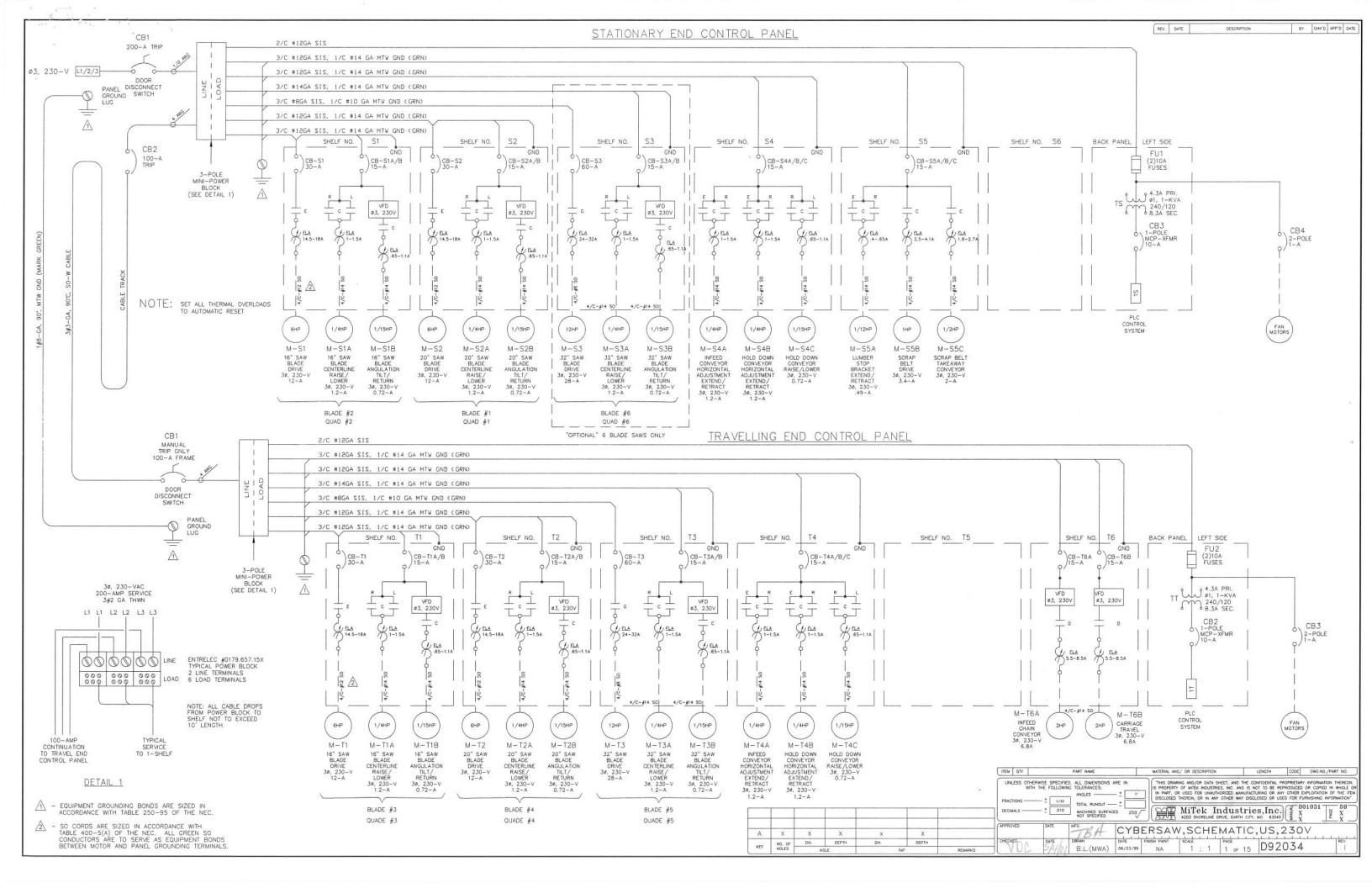
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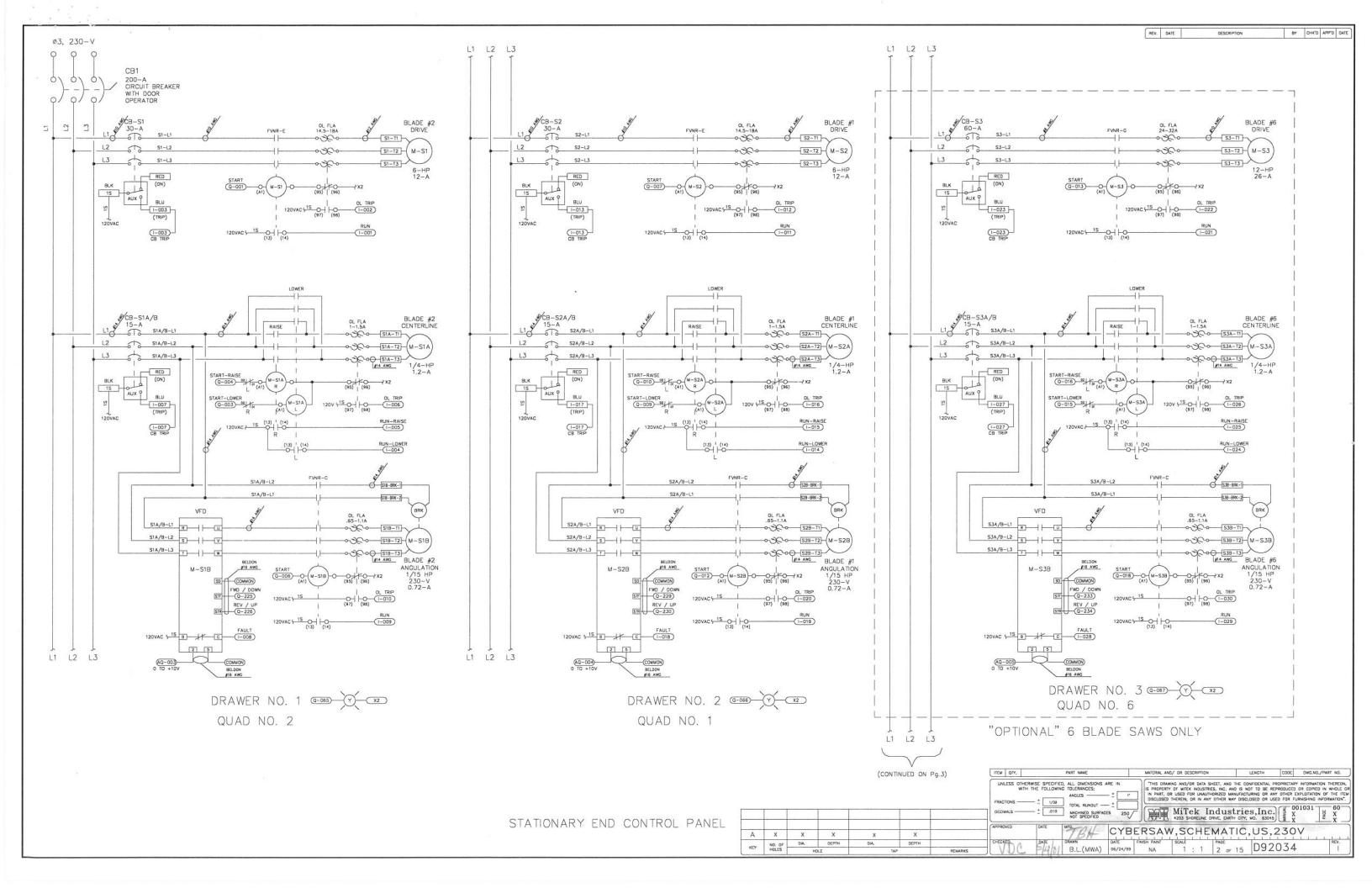


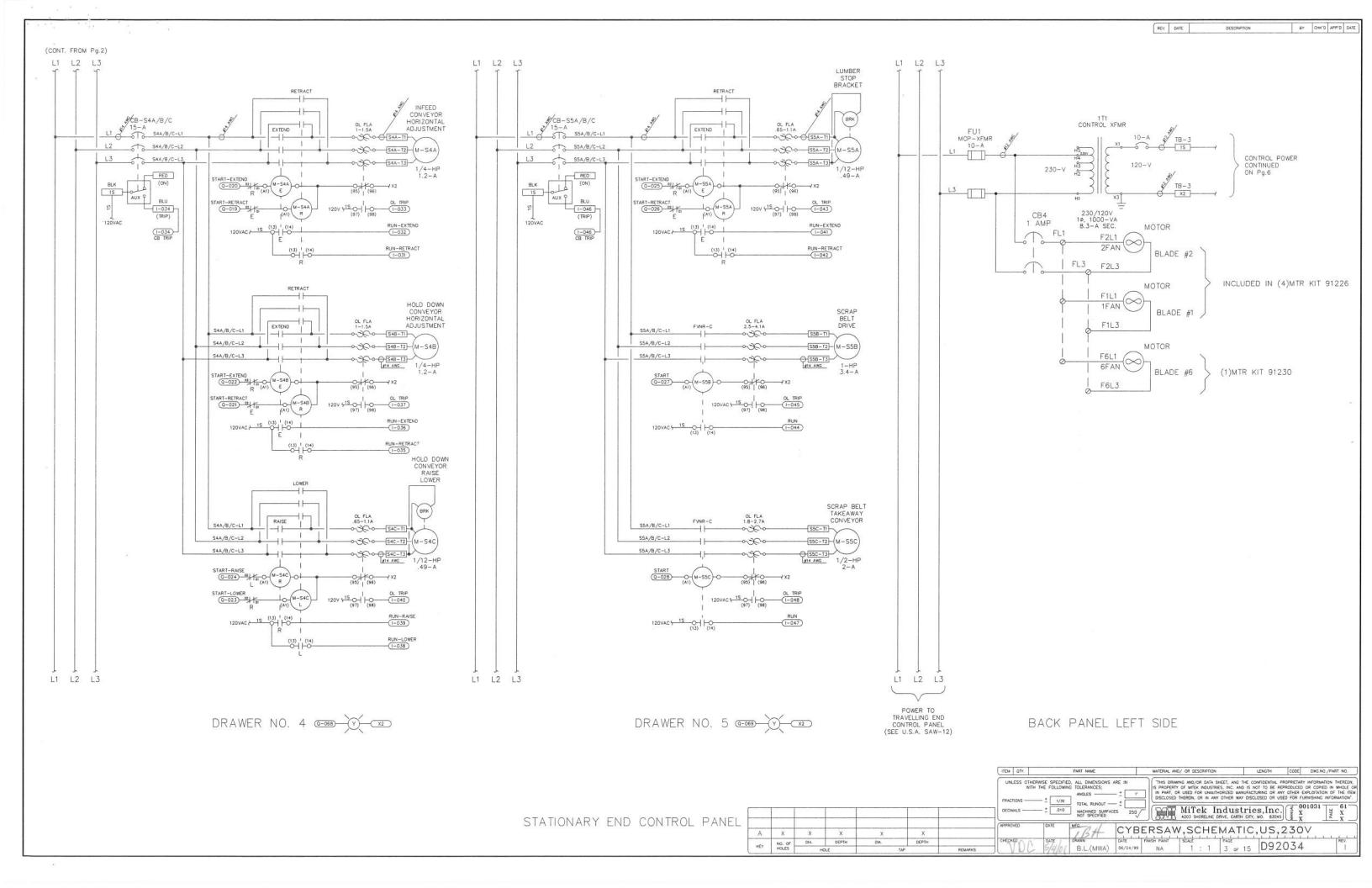
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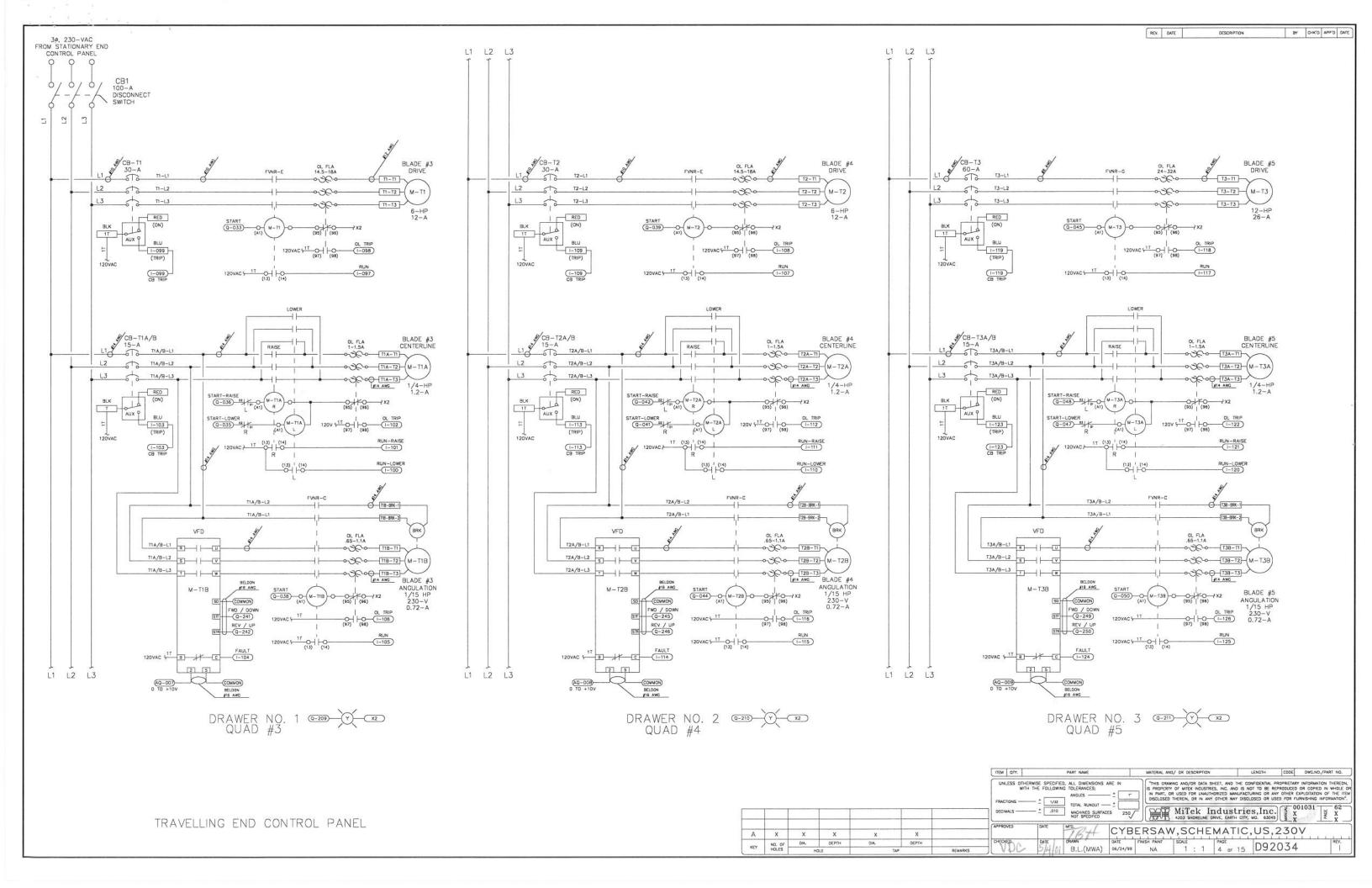
4203 Shoreline Drive, Earth City, MO 63045 P.O. Box 66702, St. Louis, MO 63166-6702 (314) 298-8088 * (800) 523-3380 * FAX (314) 298-3824

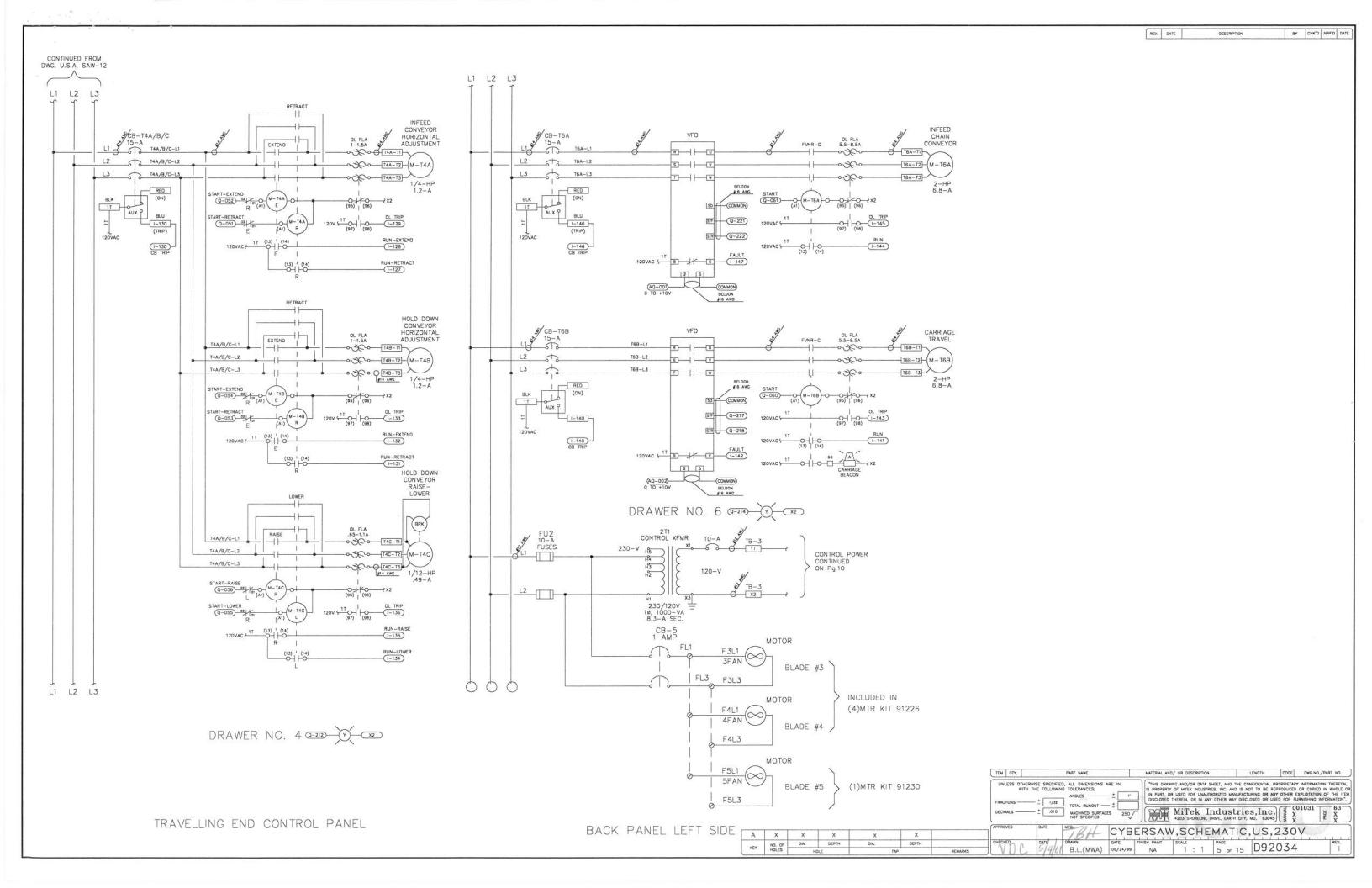
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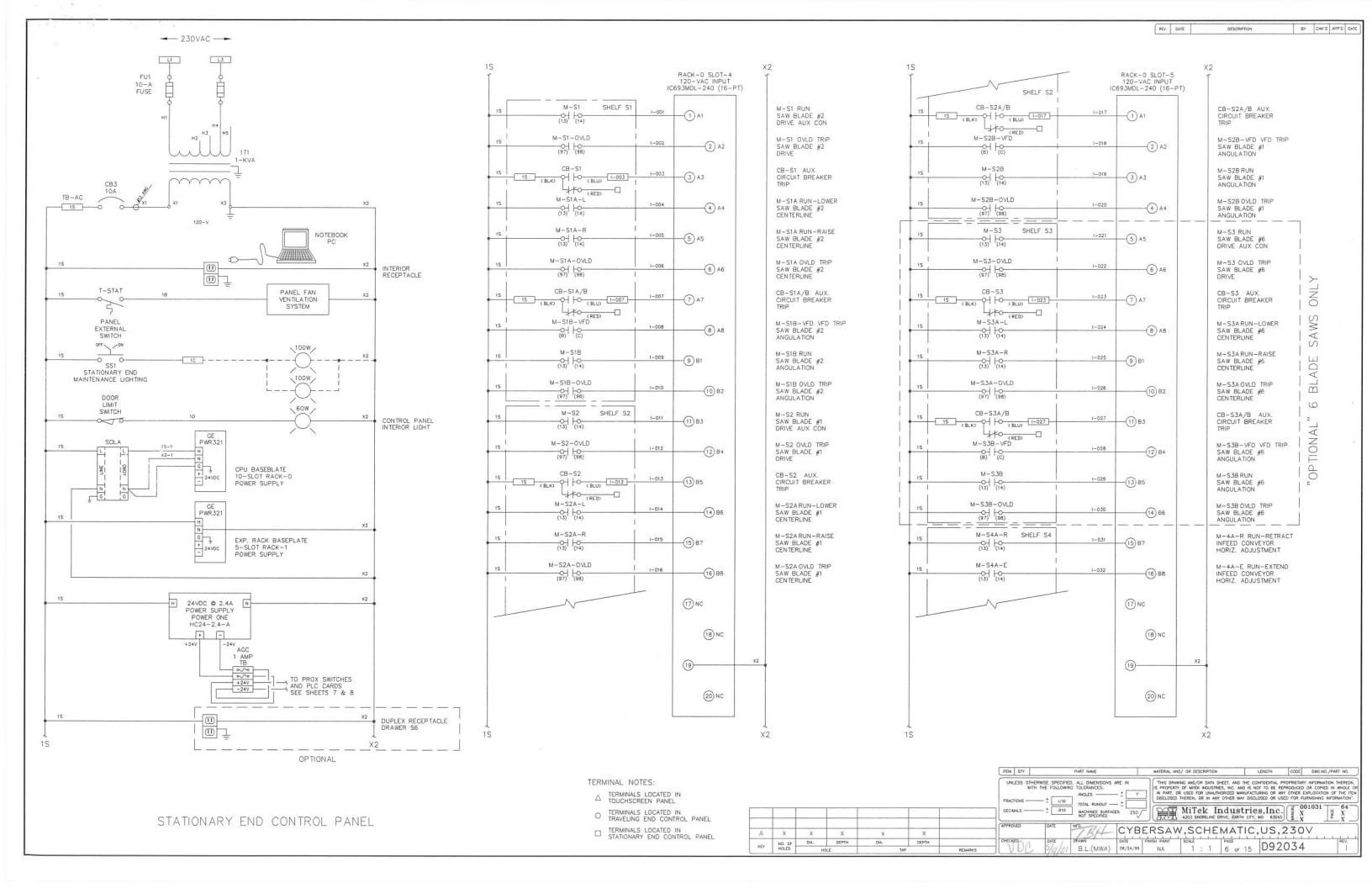


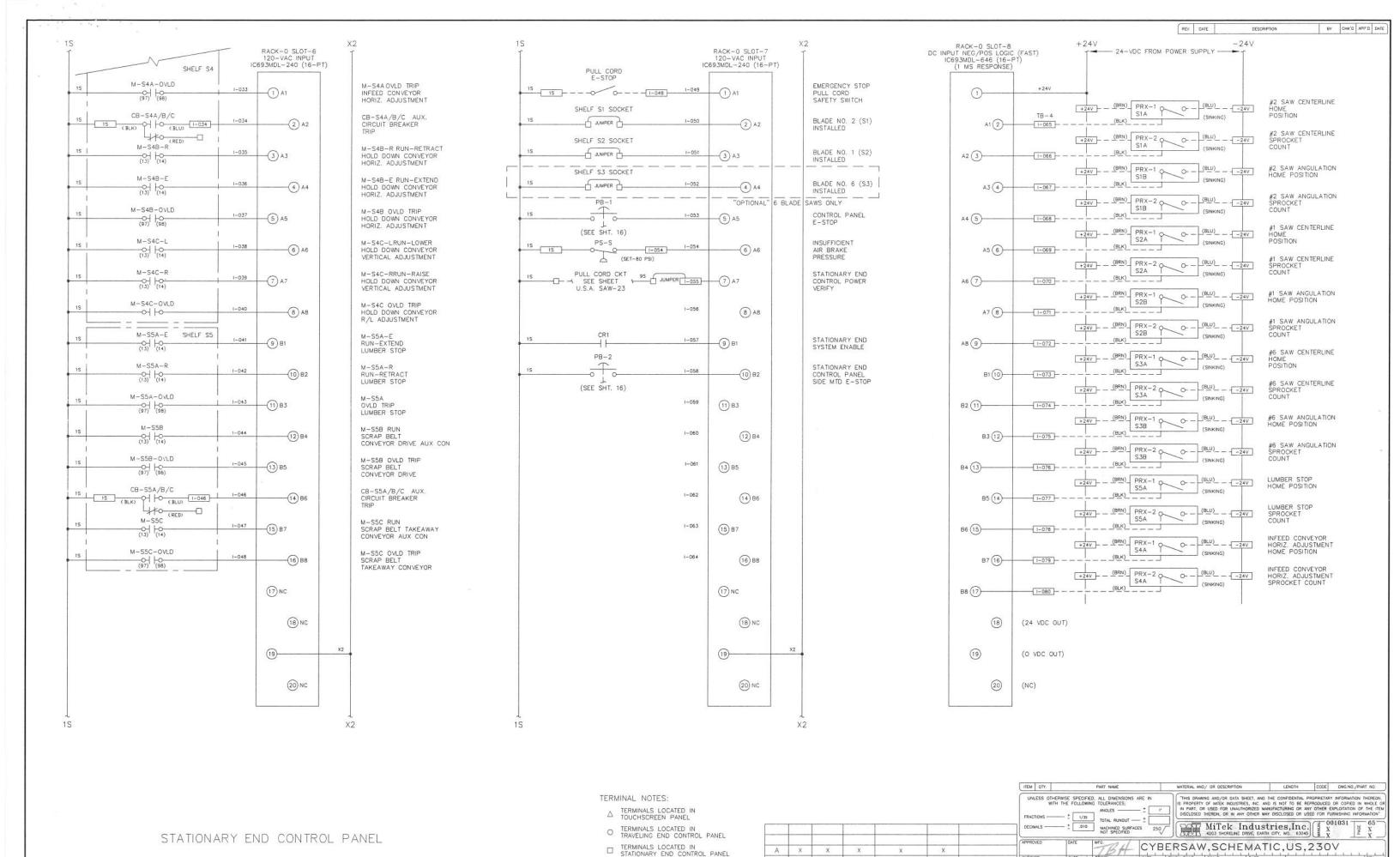












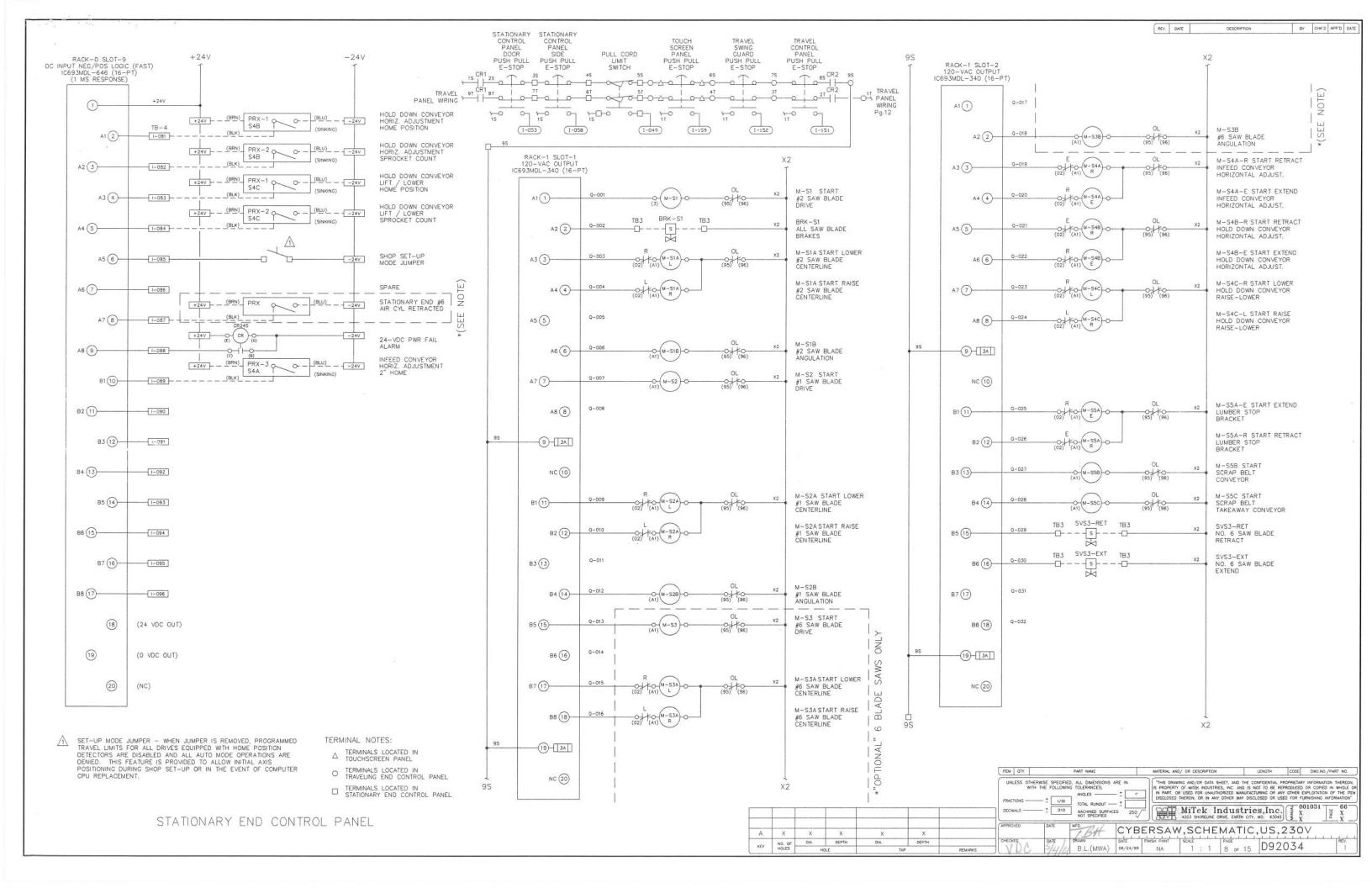
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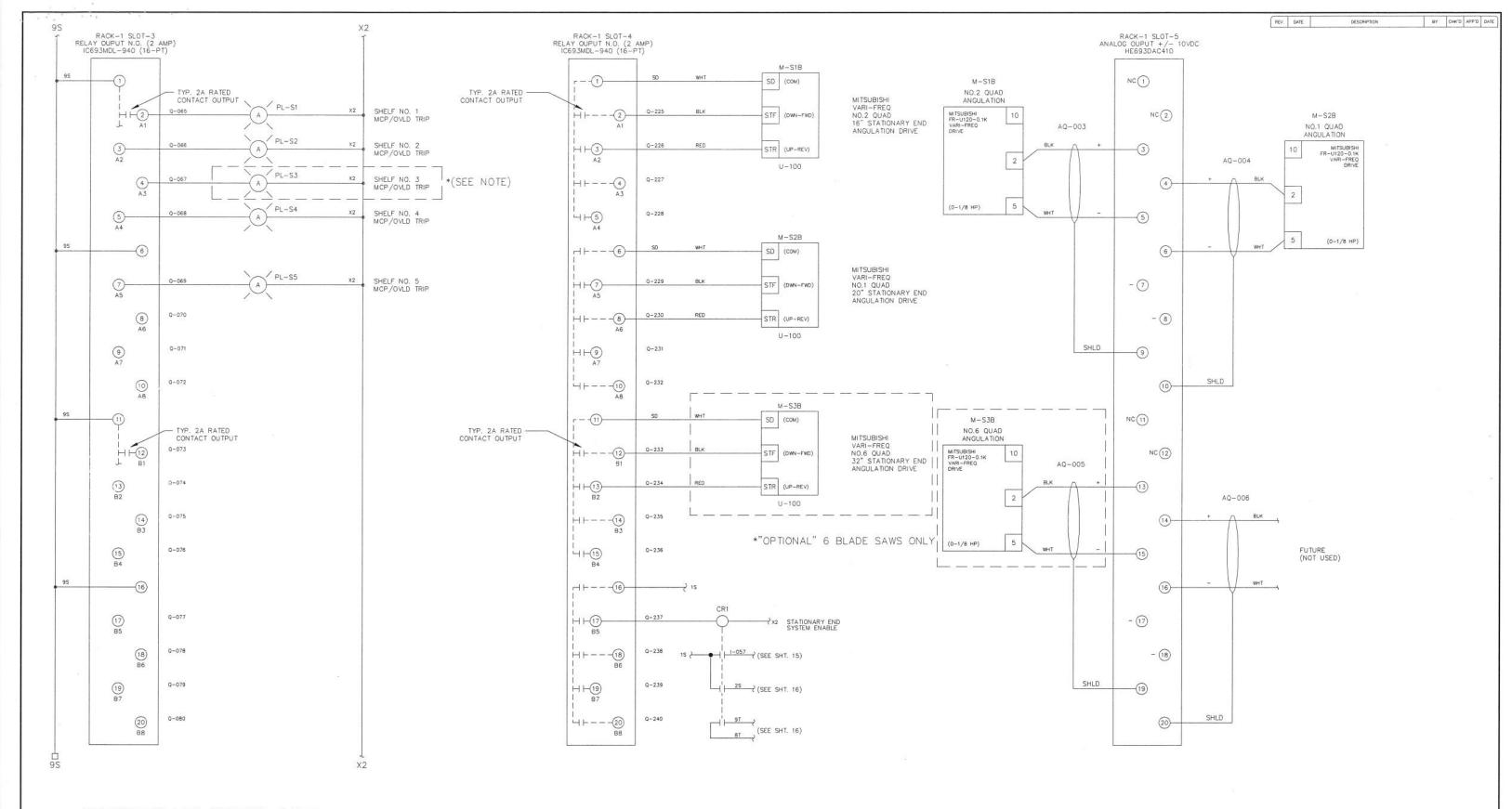
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STATIONARY END CONTROL PANEL

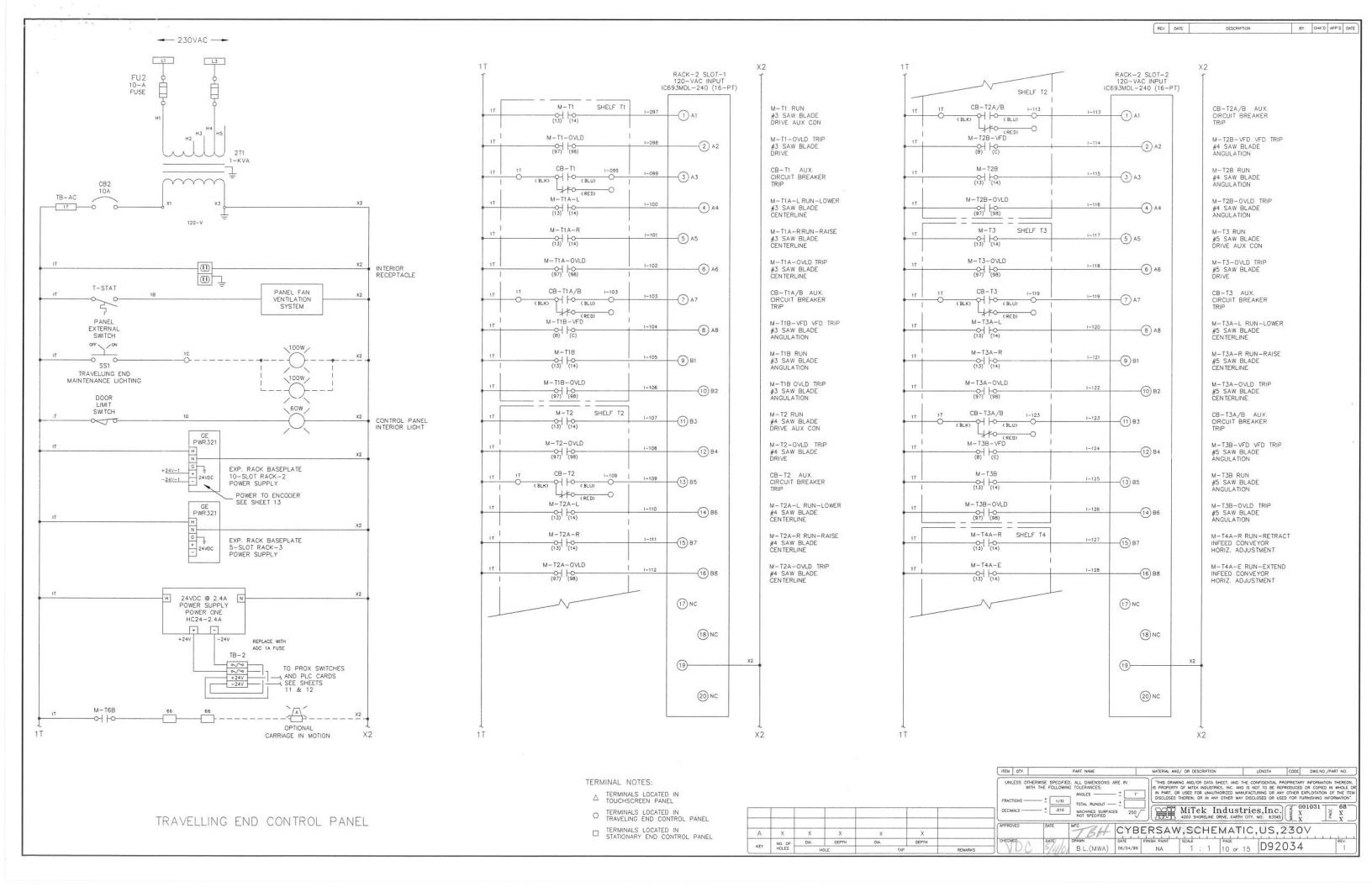
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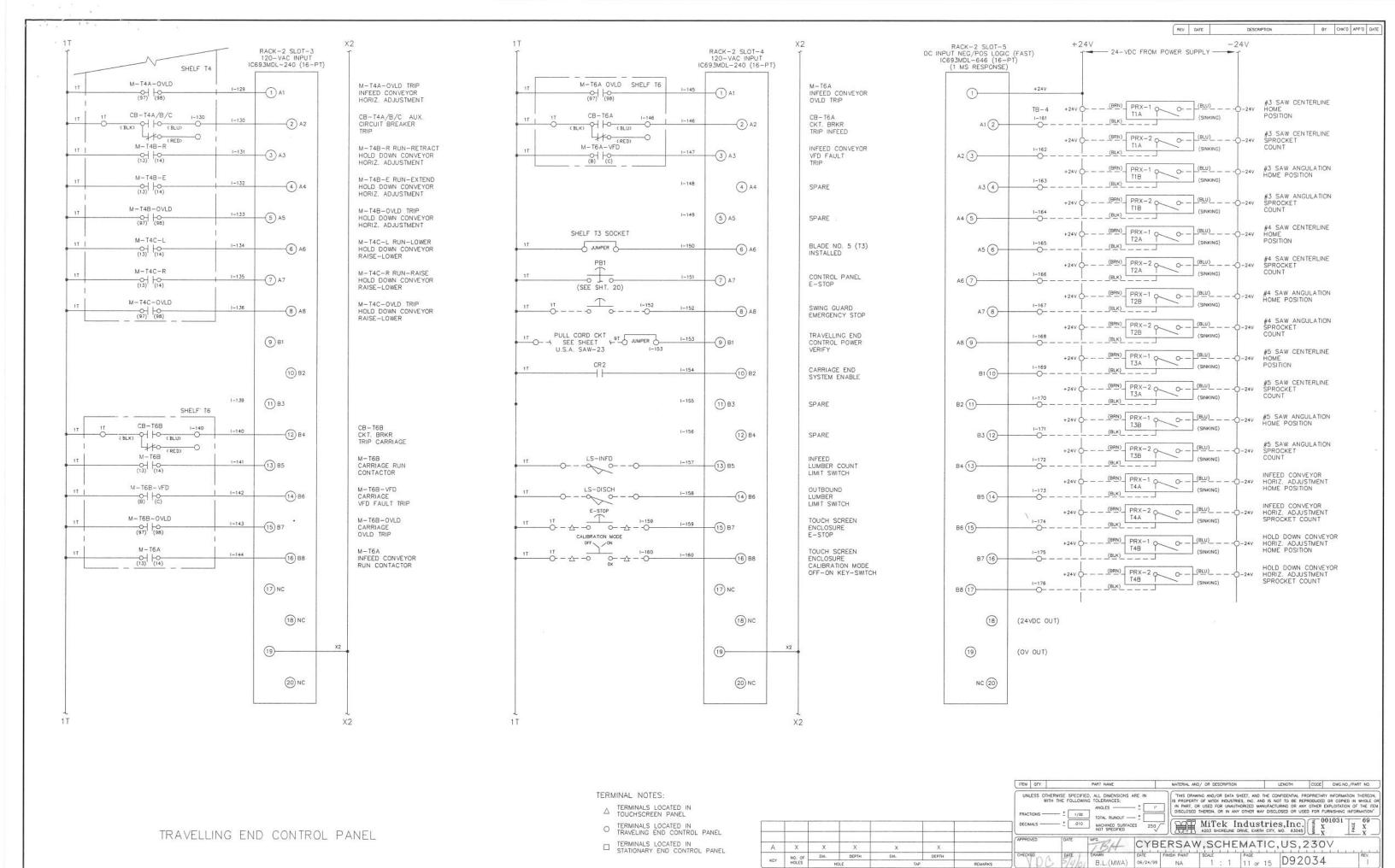
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TERMINALS LOCATED IN STATIONARY END CONTROL PANEL

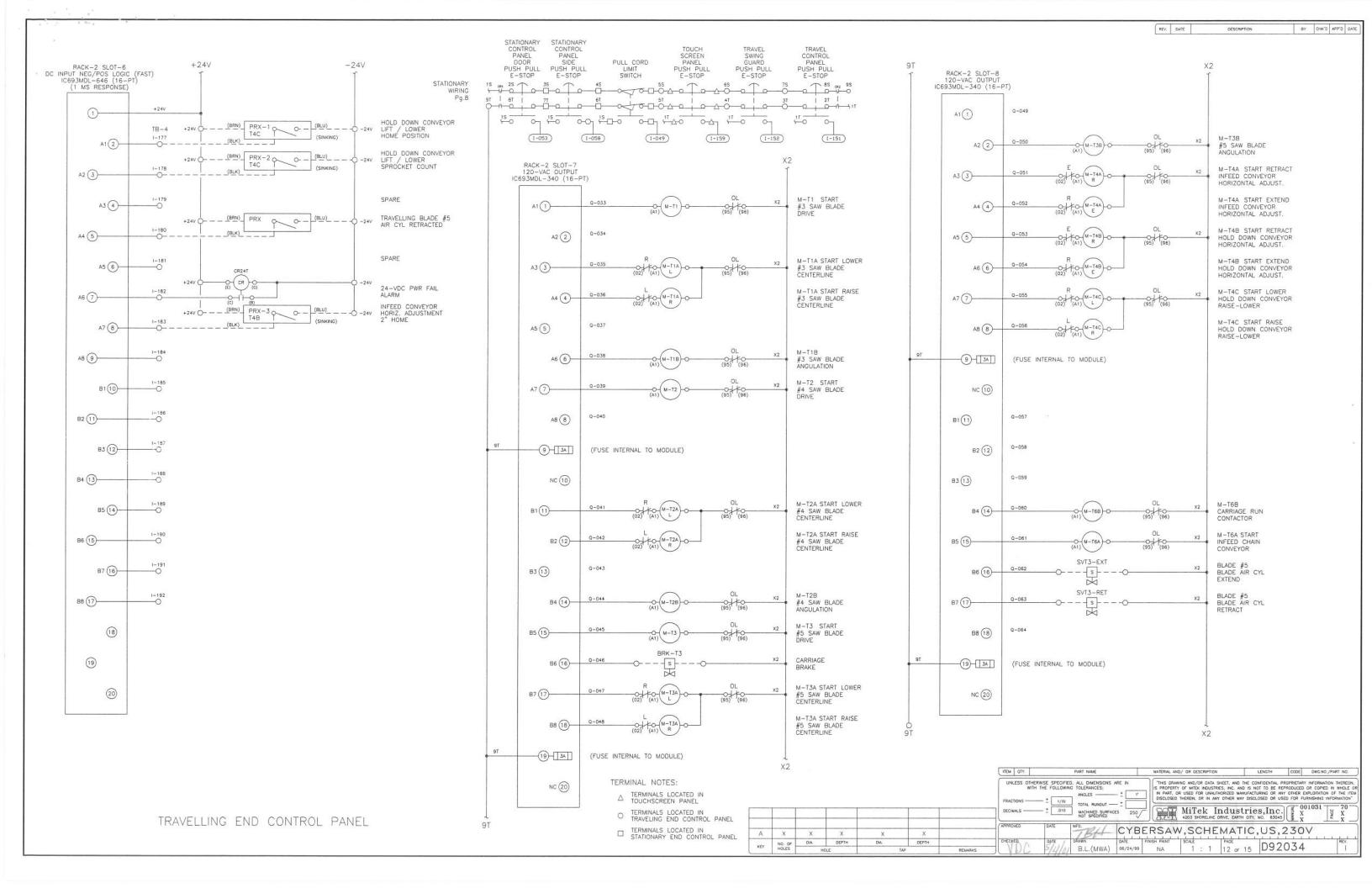
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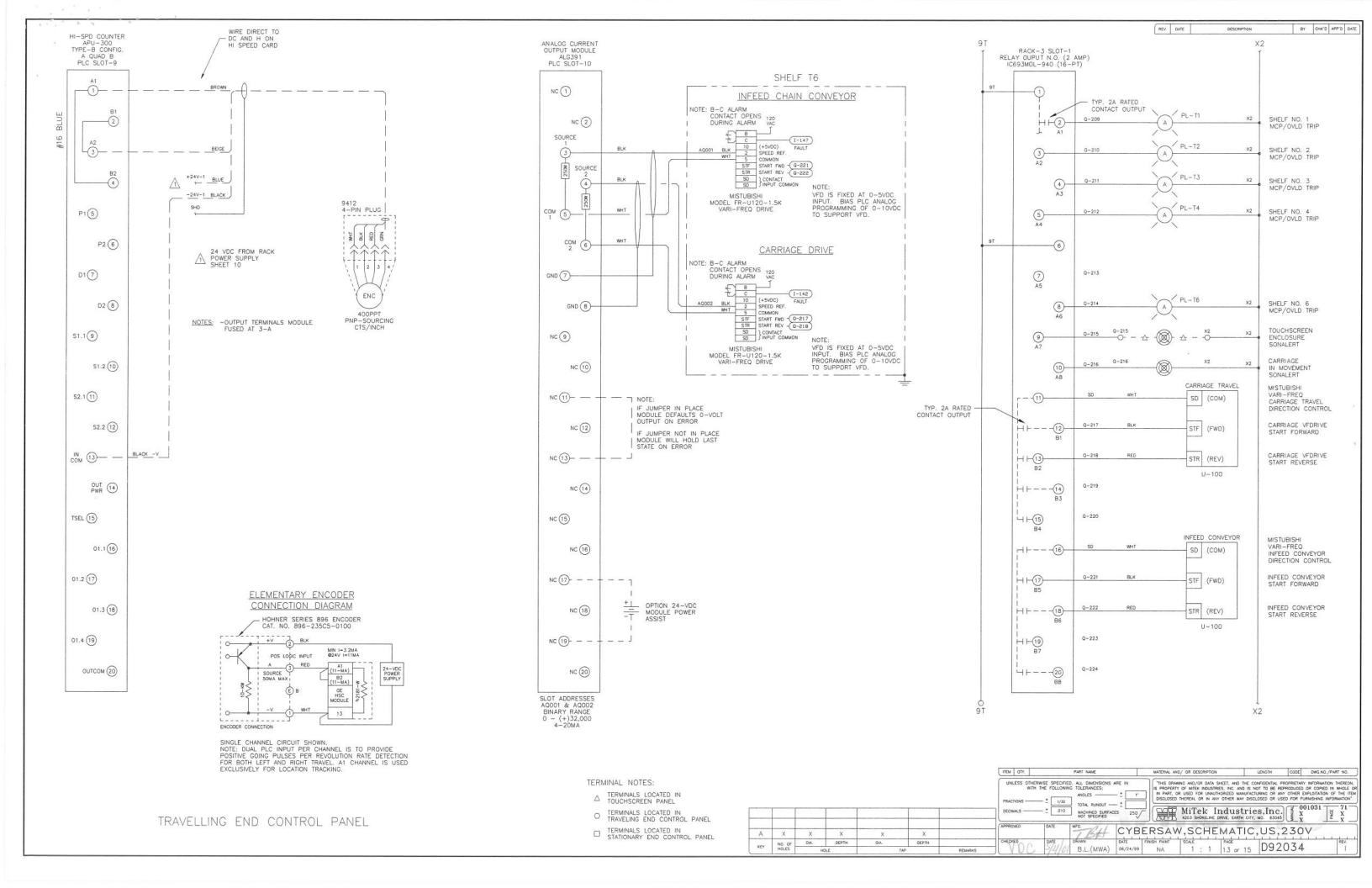


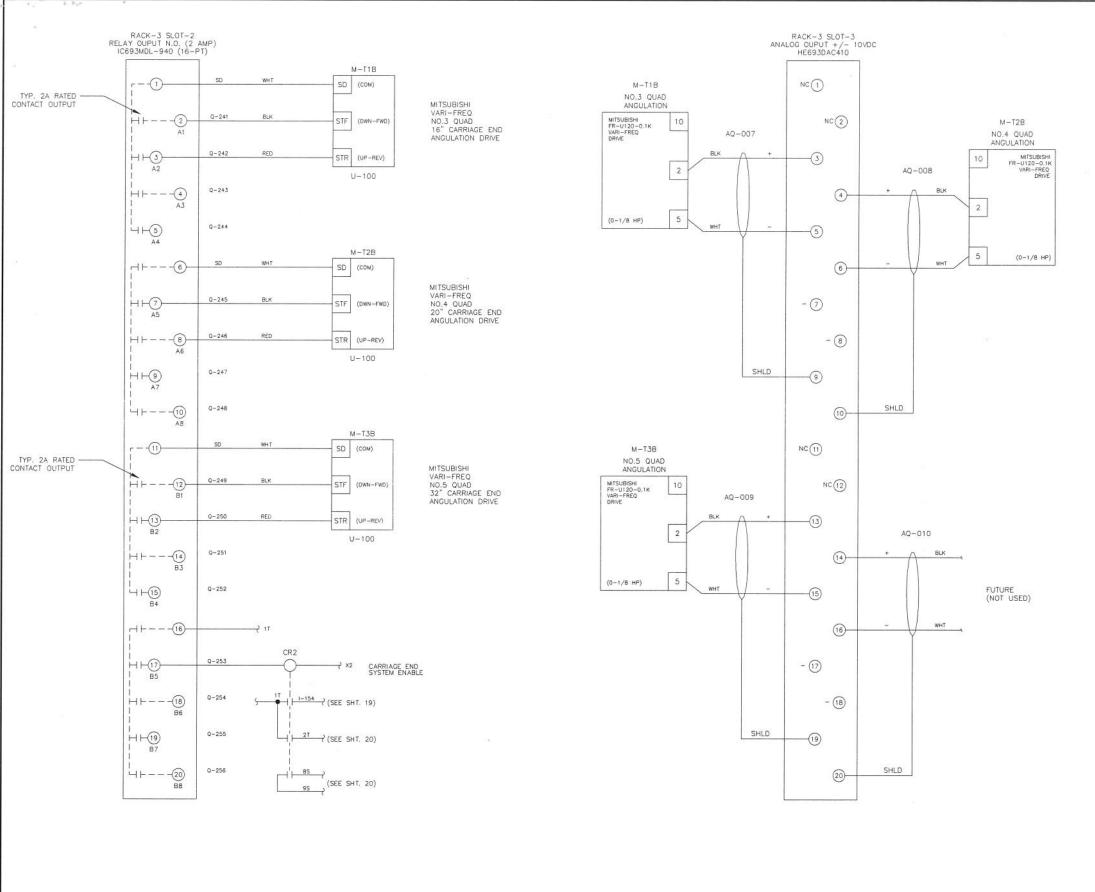


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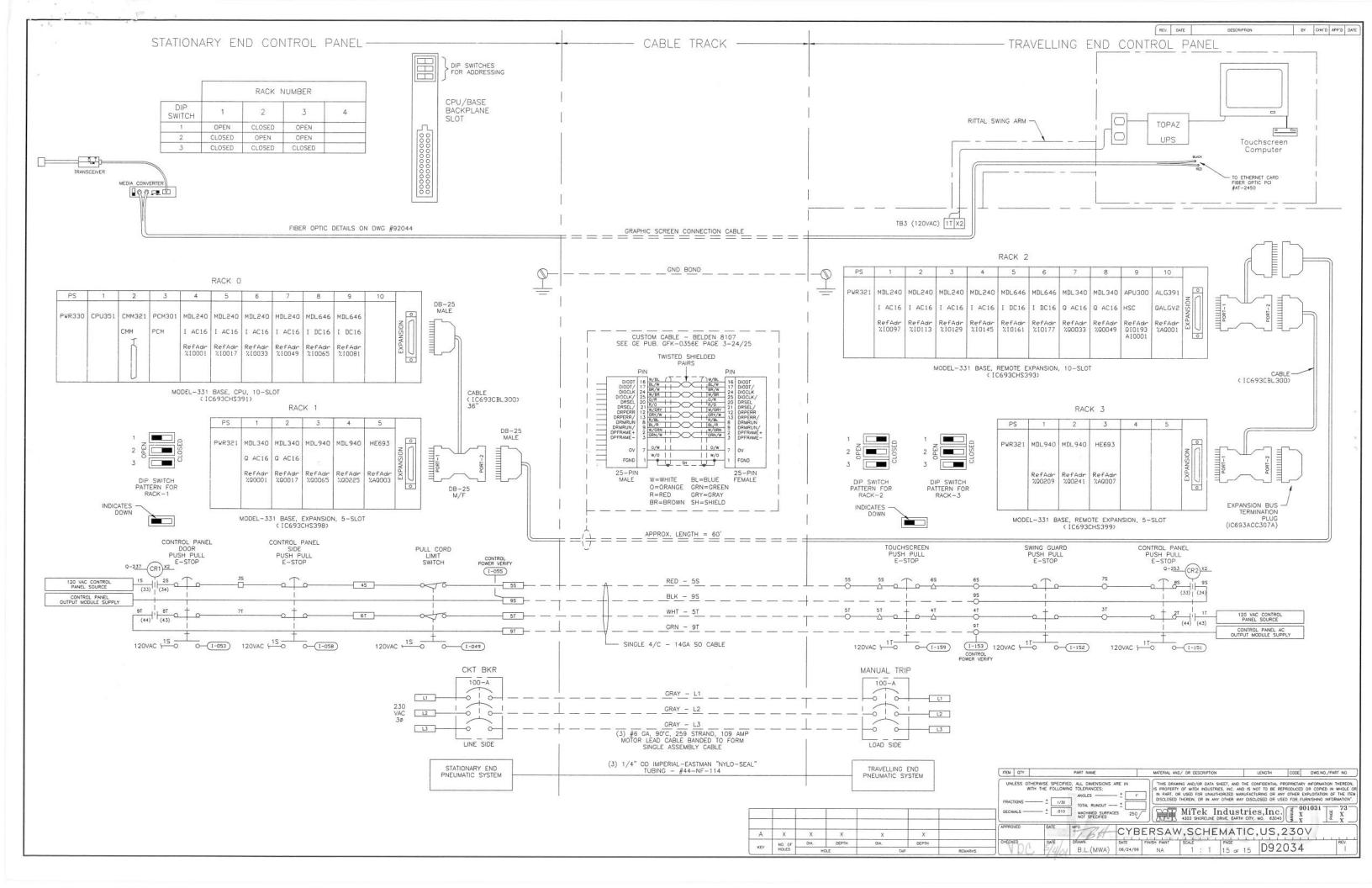
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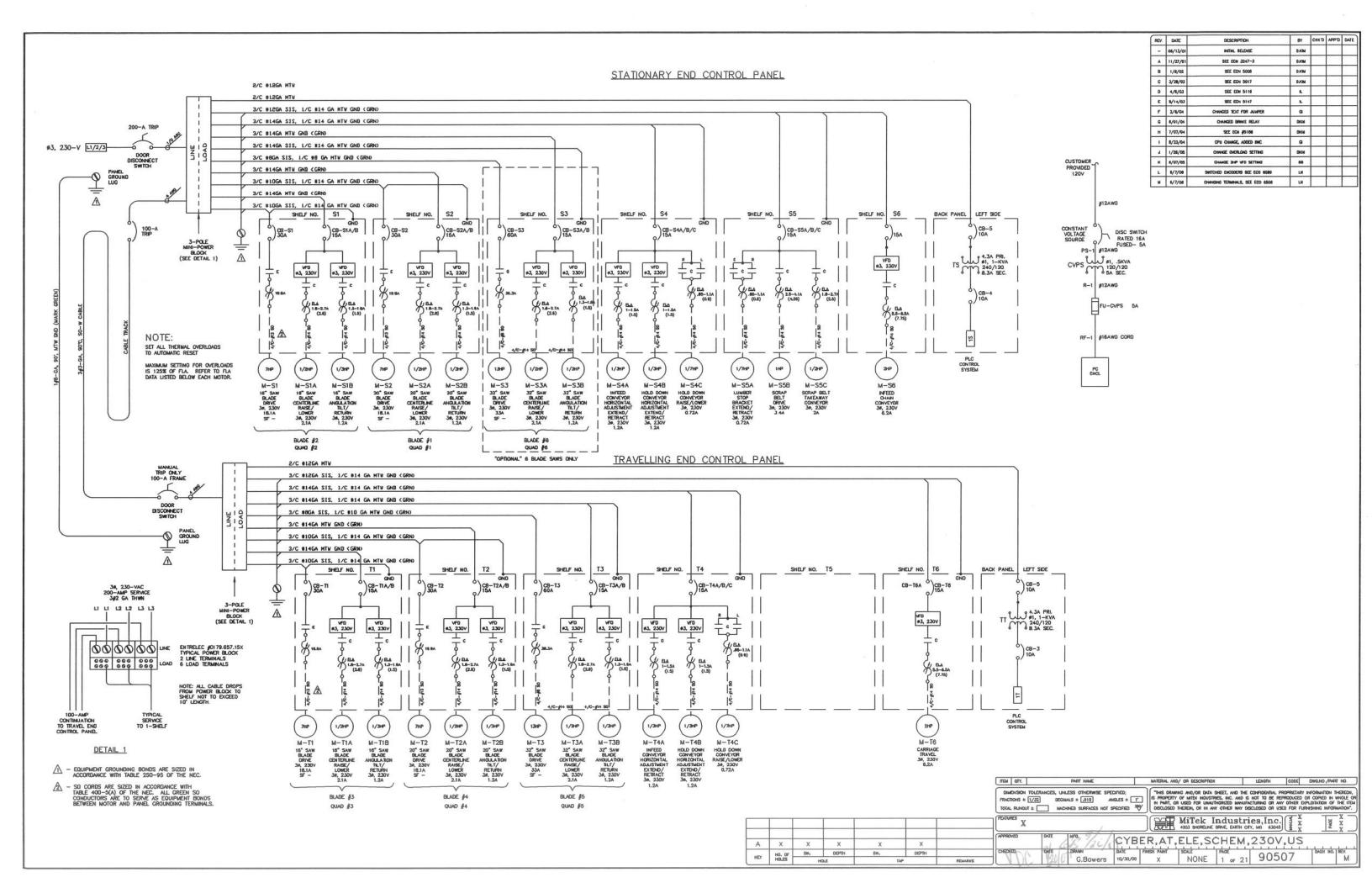
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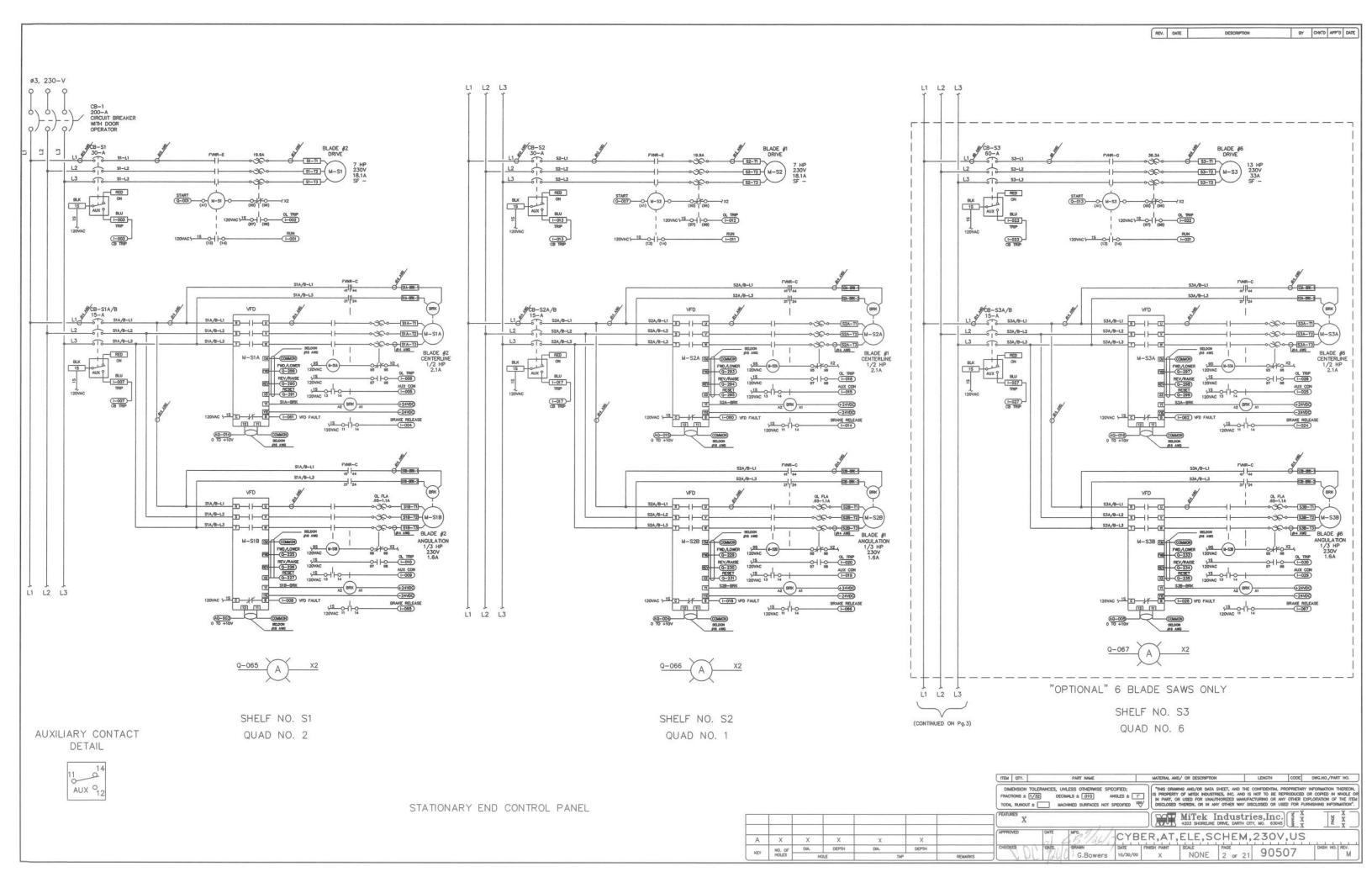
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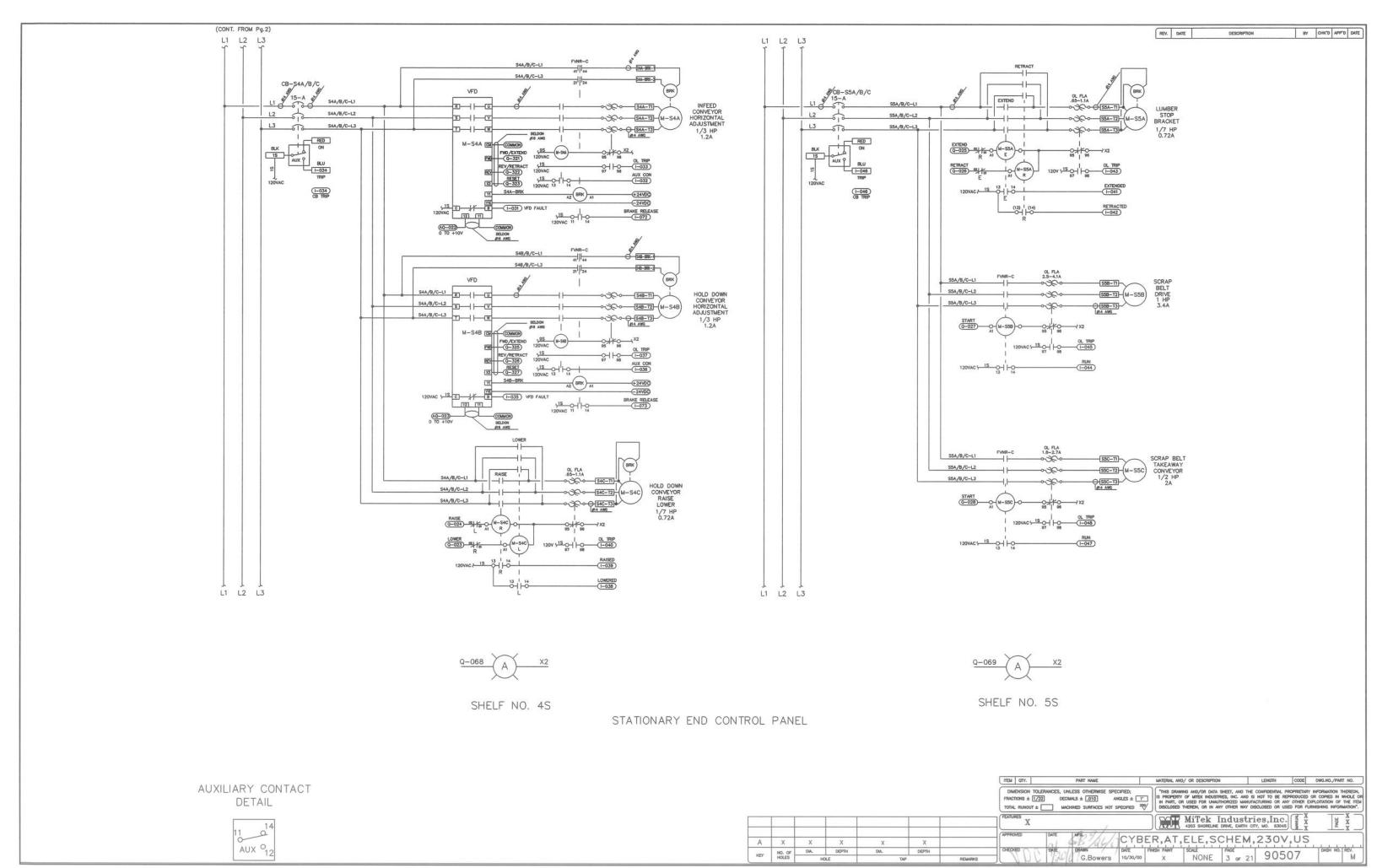
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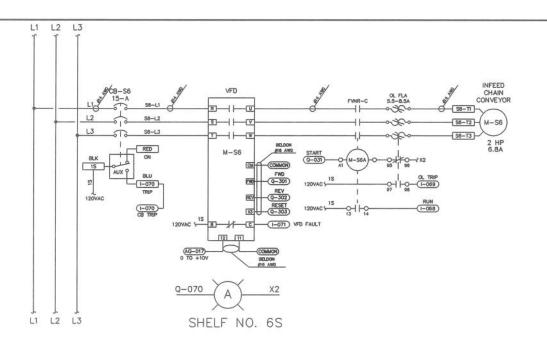
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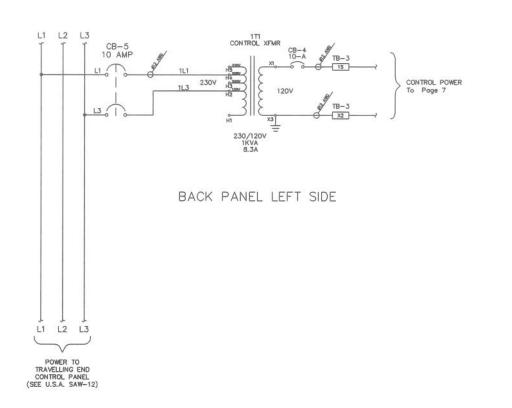




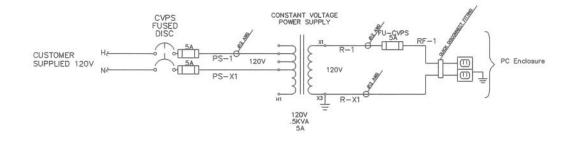








STATIONARY END CONTROL PANEL



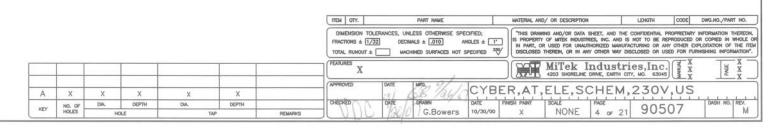
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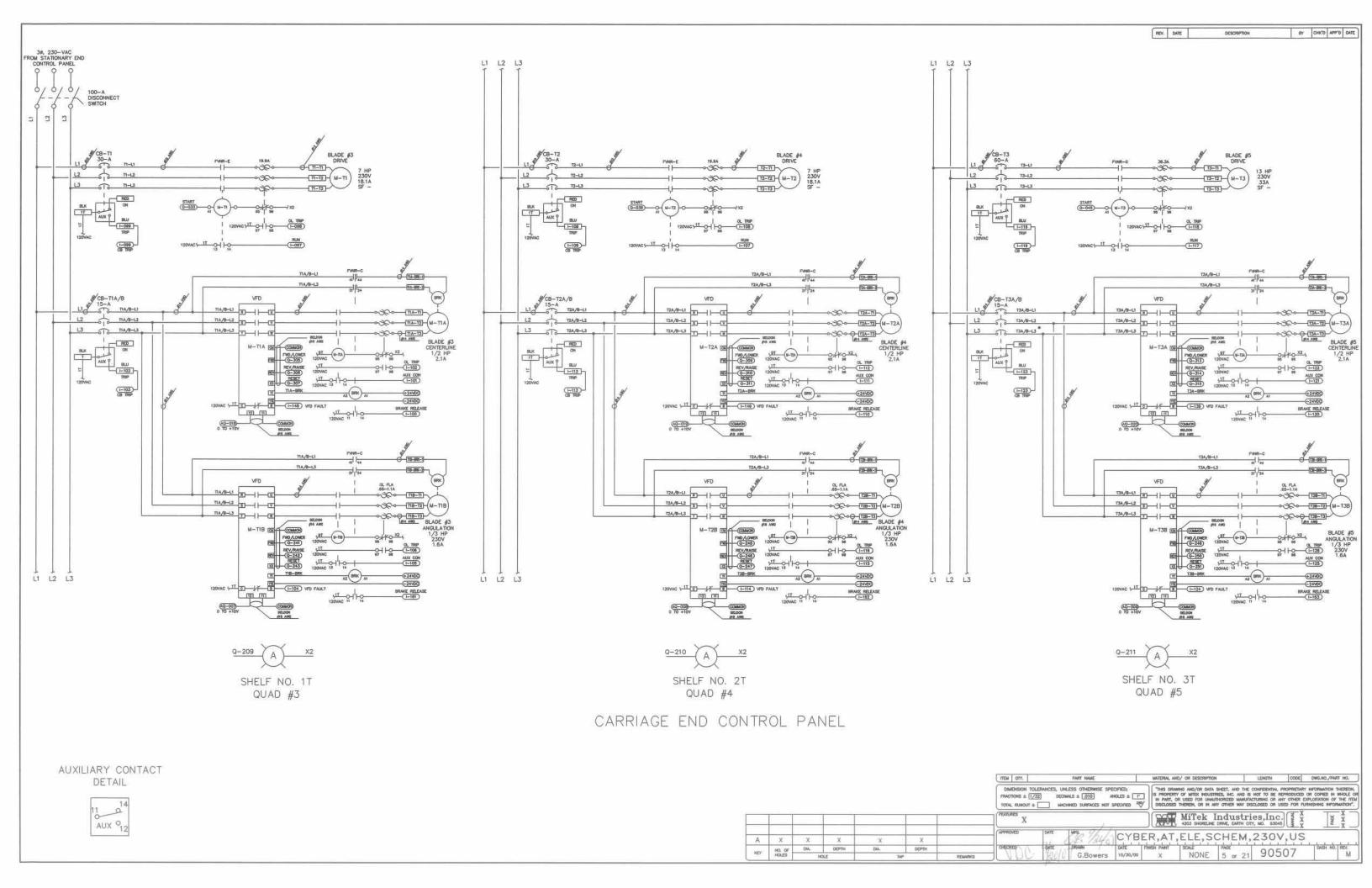
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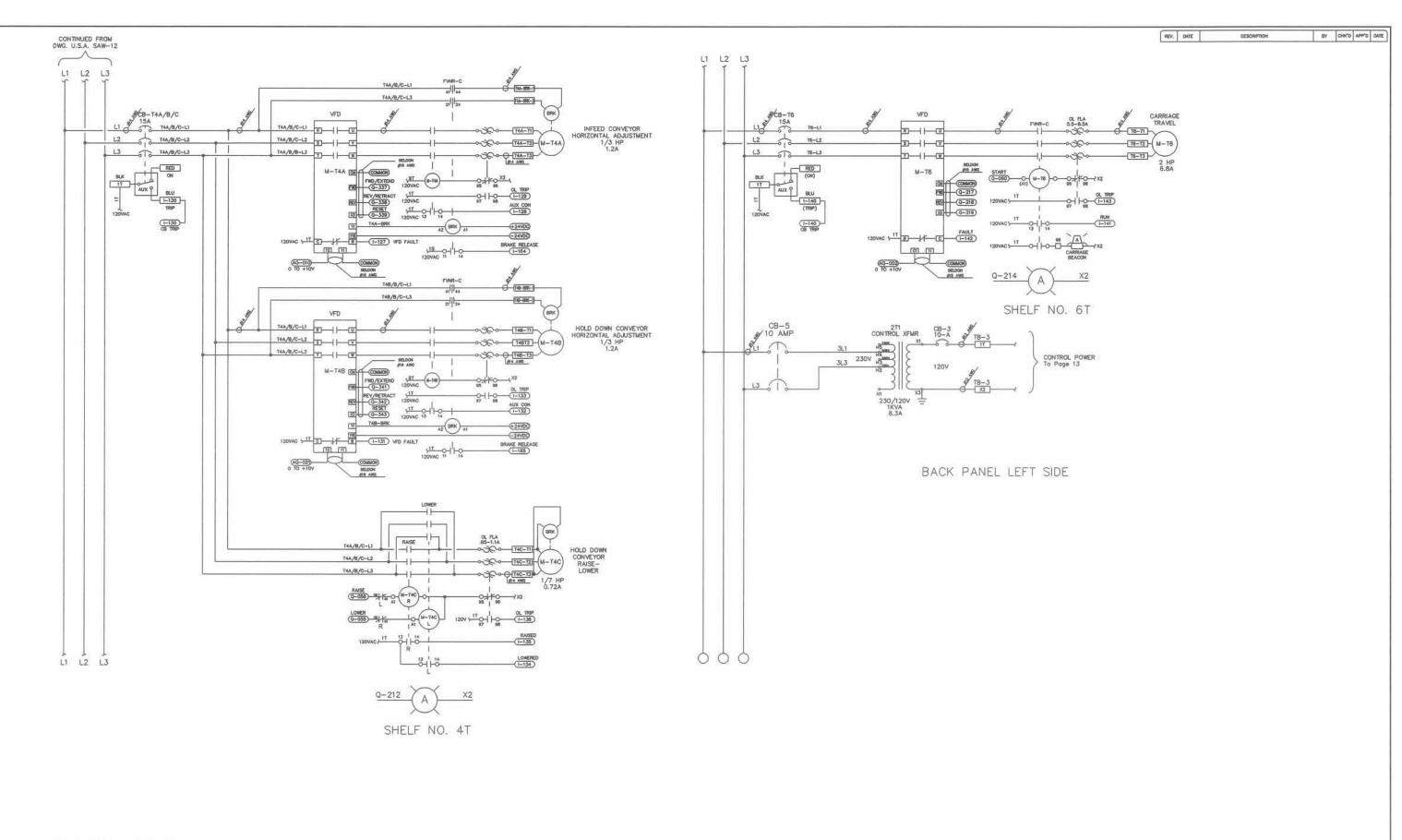
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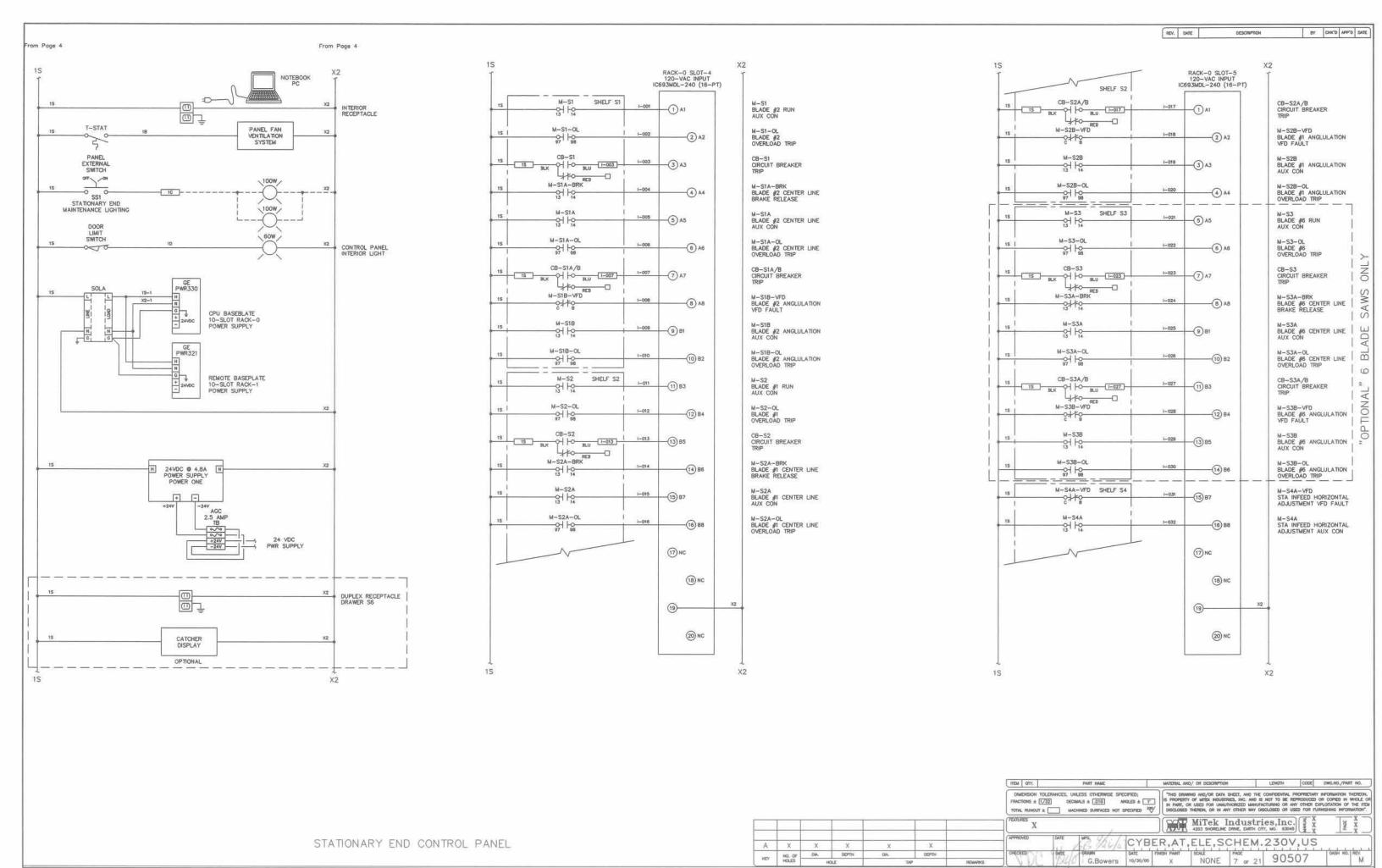


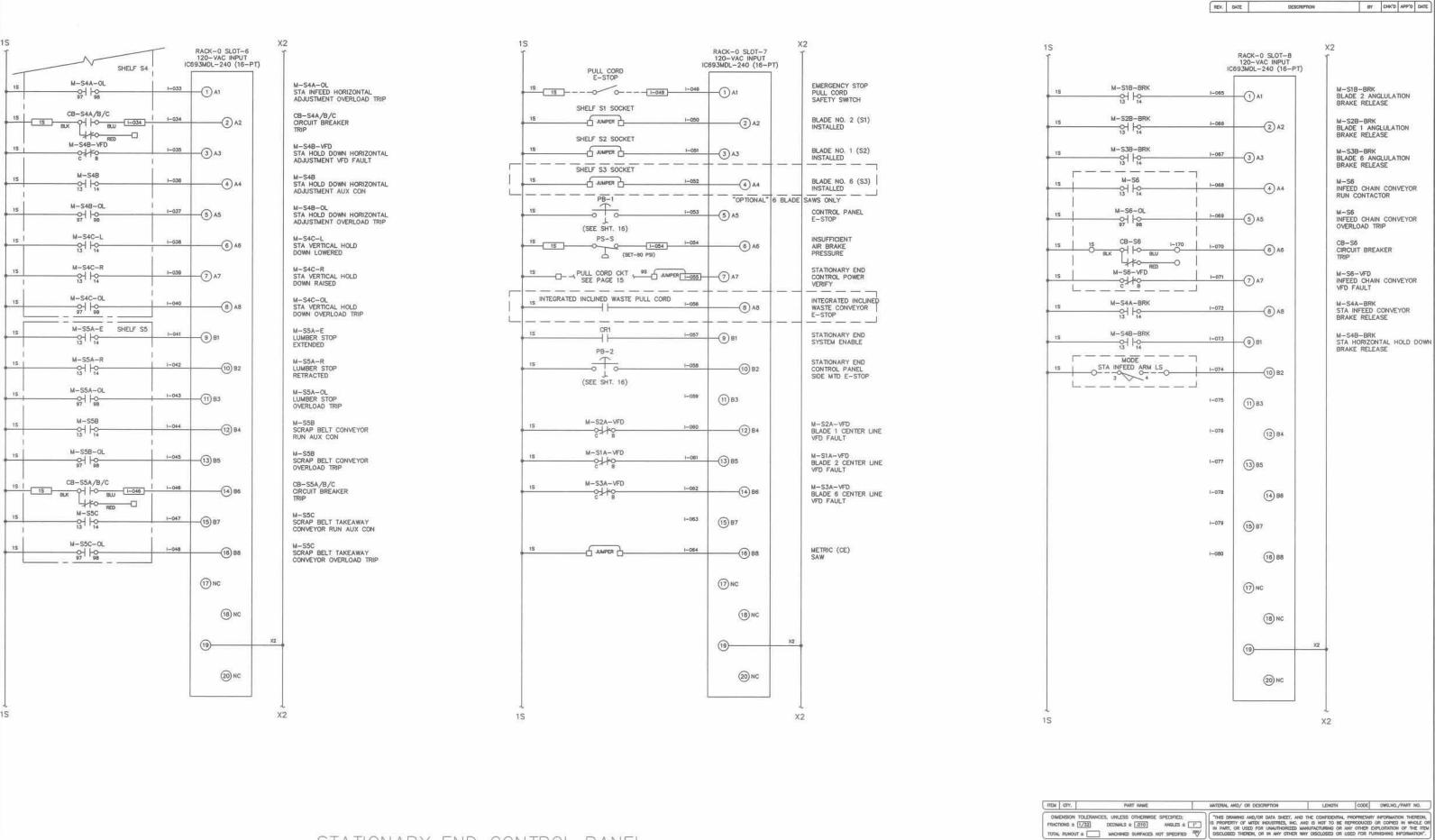


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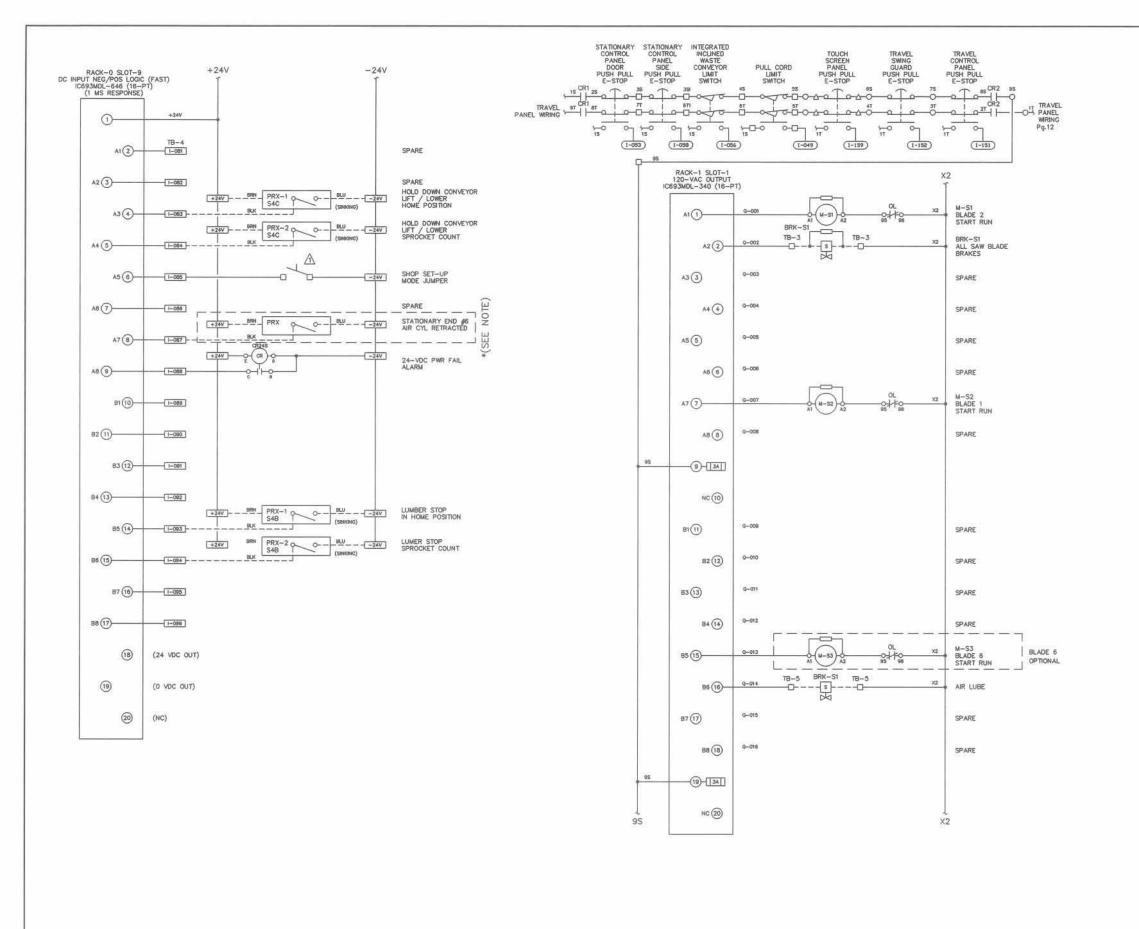
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X2 RACK-1 SLOT-2 120-VAC OUTPUT IC693MDL-340 (16-PT) A1 (1) SPARE A2 (2) A3 (3) SPARE A4 (4) SPARE A5 (5) SPARE A6 (6) SPARE M-S4C-L STA VERTICAL HOLD DOW CONVEYOR LOWER A7 (7)-M-S4C-R STA VERTICAL HOLD DOWN CONVEYOR RAISE A8 (8) -(9)-[IMI] NC (10) M-S5A-E LUMBER STOP EXTEND 81 (11)-M-S5A-R LUMBER STOP RETRACT 82 (12)-M-S5B SCRAP BELT CONVEYOR START B3 (13)-M-S5C START SCRAP BELT TAKEAWAY CONVEYOR START SVS3-RET SVS3-EXT SVS3-RET BLADE 6 RETRACT SVS3-EXT BLADE 6 EXTEND M-S6A INFEED CHAIN CONVEYOR START B7 (17)-88 (18) 9-032 -(19)-[3A] NC (20)

REV. DATE

DESCRIPTION

BY CHK'D APP'D DATE

SET-UP MODE JUMPER — WHEN JUMPER IS REMOVED, PROGRAMMED TRAVEL LIMITS FOR ALL DRIVES EQUIPPED WITH HOME POSITION DETECTORS ARE DISABLED AND ALL AUTO MODE OPERATIONS ARE DENIED. THIS FEATURE IS PROVIDED TO ALLOW INITIAL AXIS POSITIONING DURING SHOP SET-UP OR IN THE EVENT OF COMPUTER CPU REPLACEMENT.

TERMINAL NOTES:

A TERMINALS LOCATED IN TOUCHSCREEN PANEL

O TERMINALS LOCATED IN TRAVELING END CONTROL PANEL

TERMINALS LOCATED IN STATIONARY END CONTROL PANEL

STATIONARY END CONTROL PANEL

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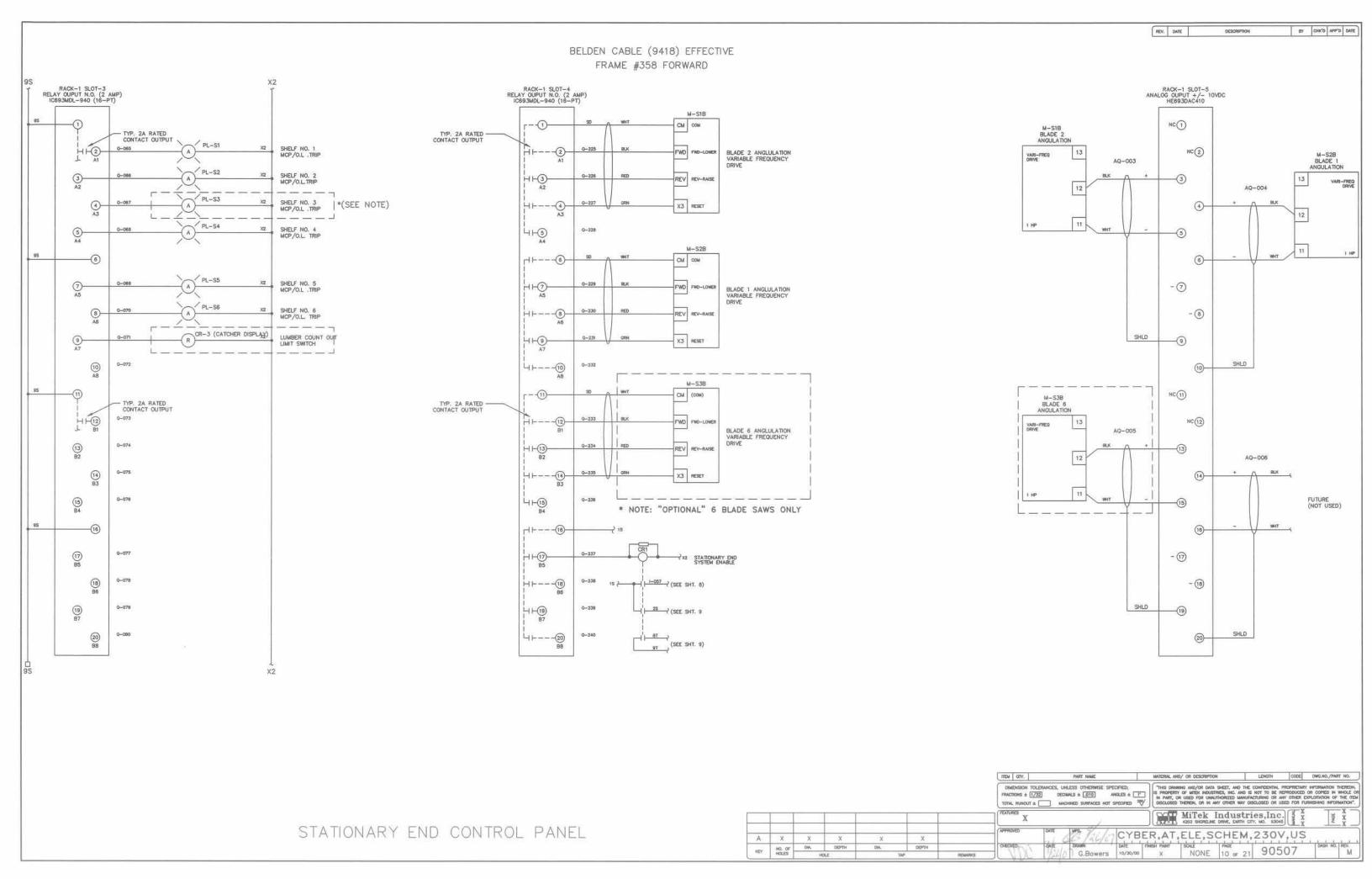
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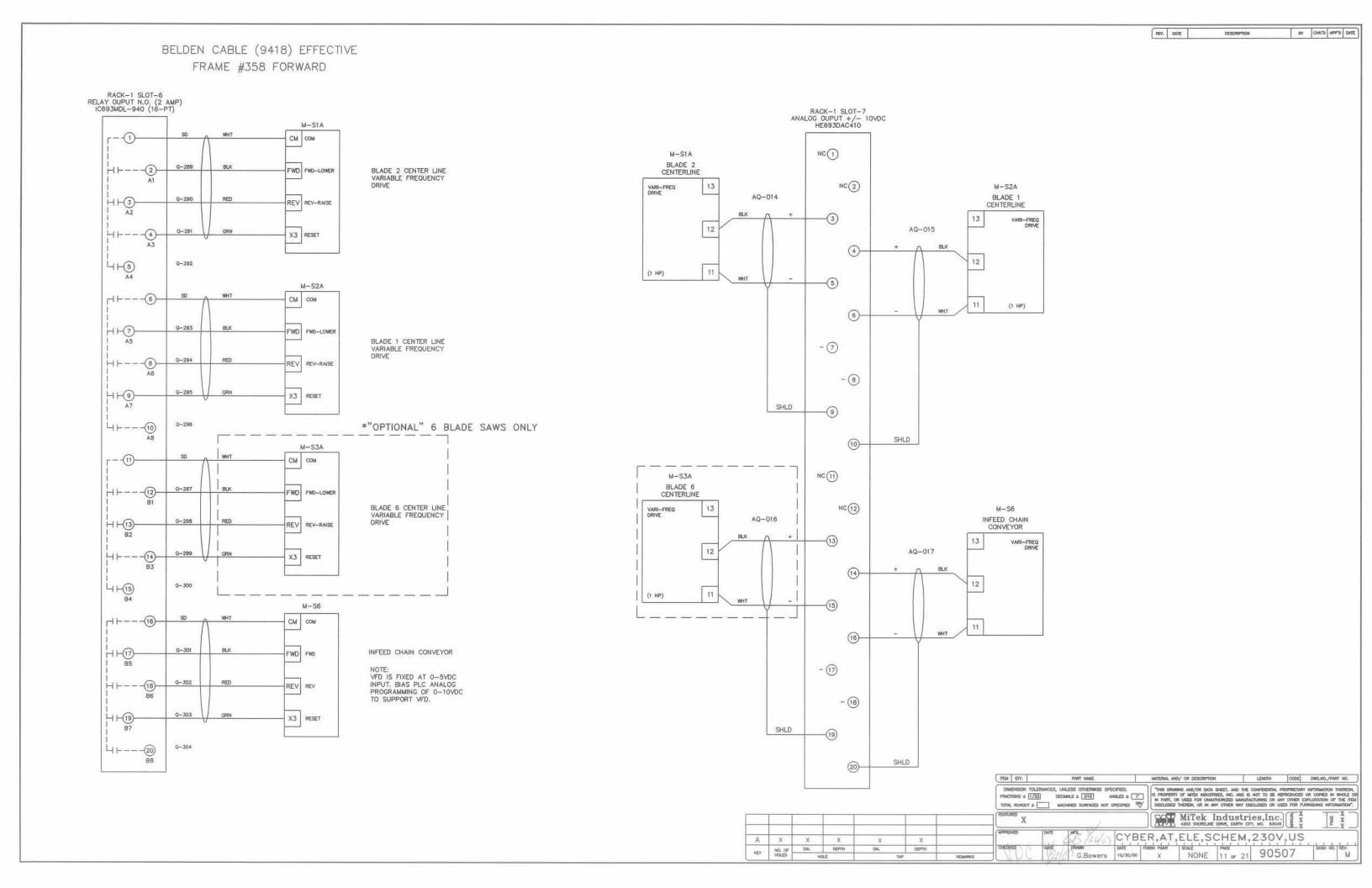
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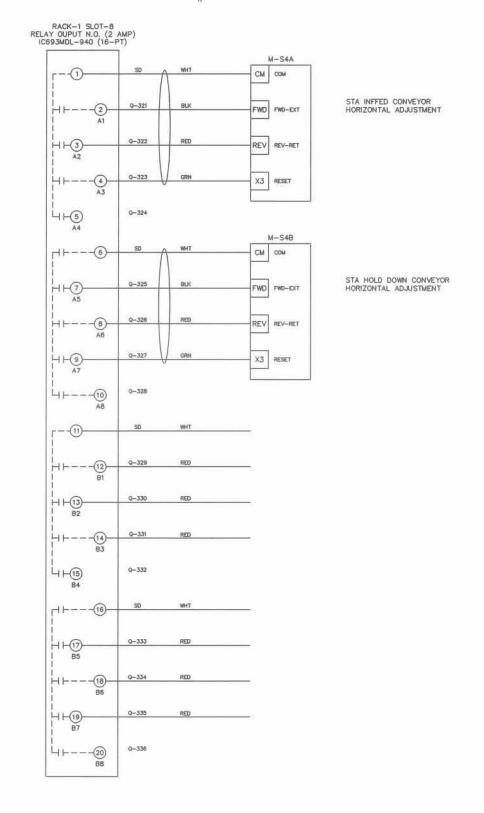
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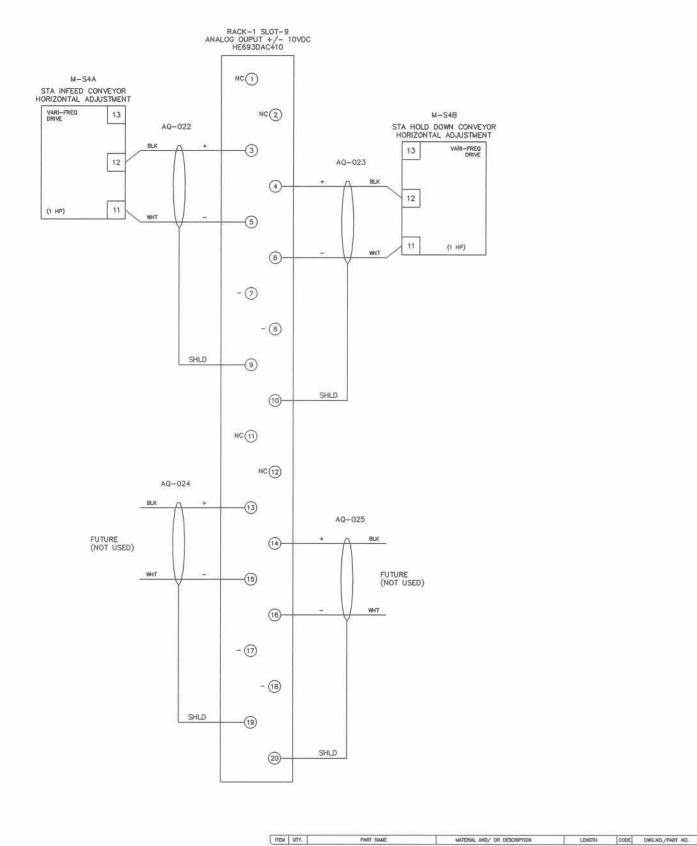
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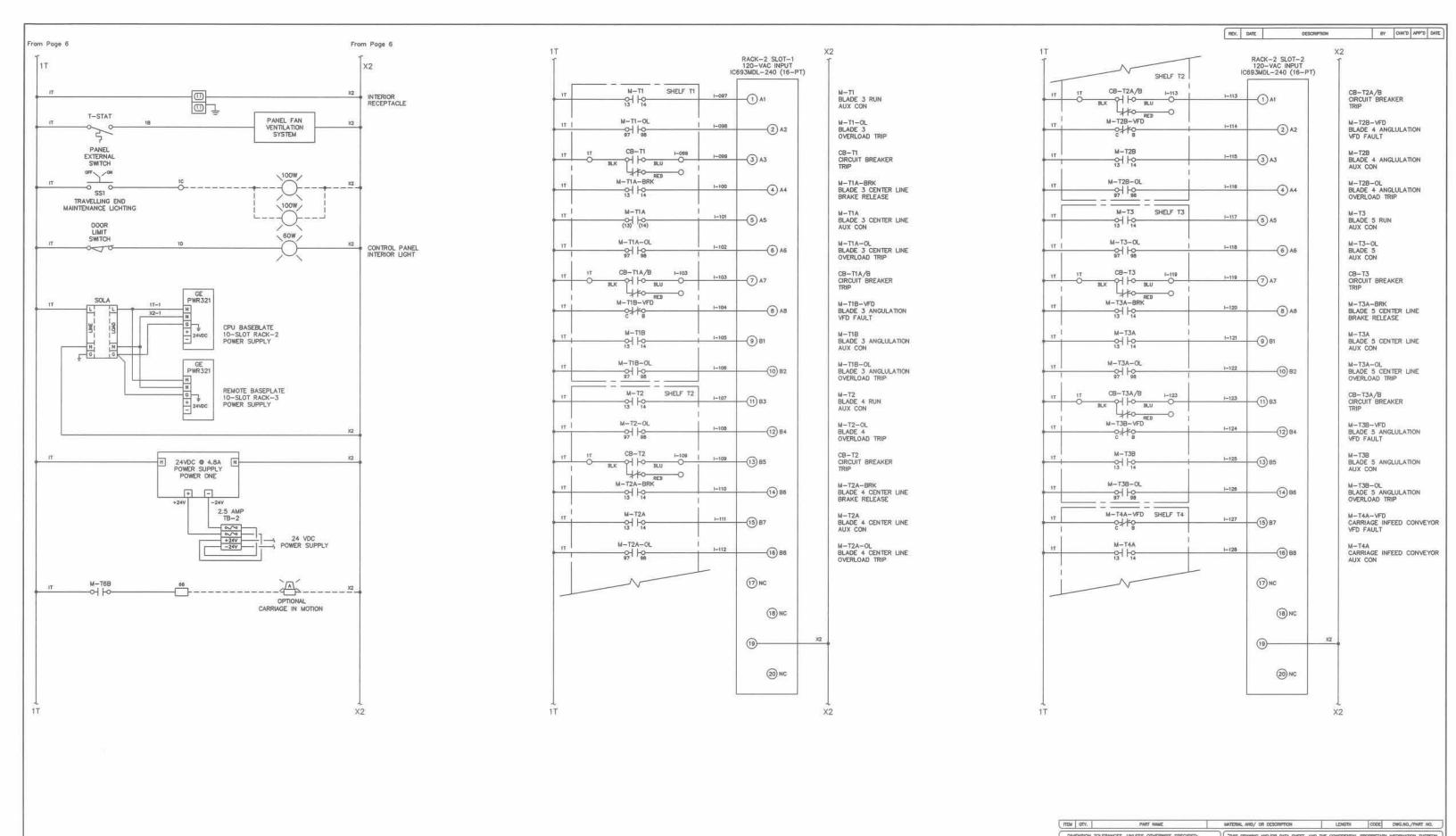


TOUCHSCREEN PANEL

O TERMINALS LOCATED IN TRAVELING END CONTROL PANEL

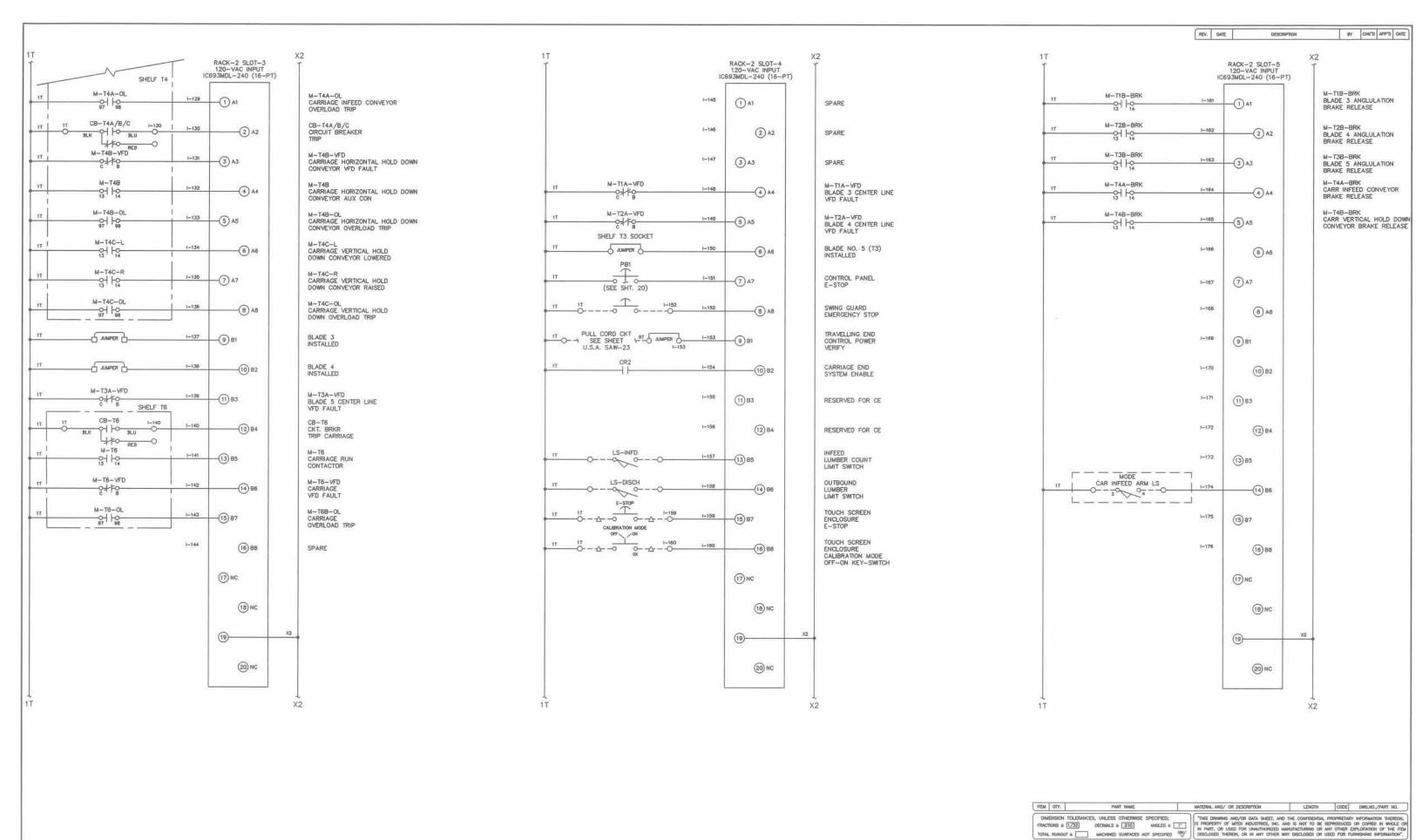
TERMINALS LOCATED IN STATIONARY END CONTROL PANEL

							FRACTIONS ± 1/3: TOTAL RUNOUT ± [Z DECI		NGLES ± [1*	IS PROPERT	Y OF WITEK INDUS	TRIES, INC. AND IS UTHORIZED MANUFAC	NOT TO BE REPRODUCED O TURING OR ANY OTHER EXP SLOSED OR USED FOR FUR	R COPIED IN I	THE IT
							FEATURES X					MiTek 4203 SHORELIN	Industrie	es,Inc.	PAGE	X X
							APPROVED	DATE	MFG.	0000		e	O			
A	X	X	X	×	×			41.5	66/36/01	CAR	ER,AI	ELE,S	CHEM,	230V,US	a reserve	
	HO, OF	264	DEFIN	DIA.	DEPTH		CHECKED	DATE	DRAWN	DATE	FINISH PAINT	SCALE	PAGE	00507	DASH NO.	REV.
KEY	HOLES	н	DLE	7	AP.	REMARKS	JUV JU	3/40/2	G.Bowers	10/30/00	X	NONE	12 or 21	90507		M



DIMENSION TOLERANCES, UNLESS OTHERWISE SPECIFIED;

FRANCISCA \$\frac{1733}{1733}\$ DOCUMENT \$\frac{1}{2}\$ \$\frac{1}{



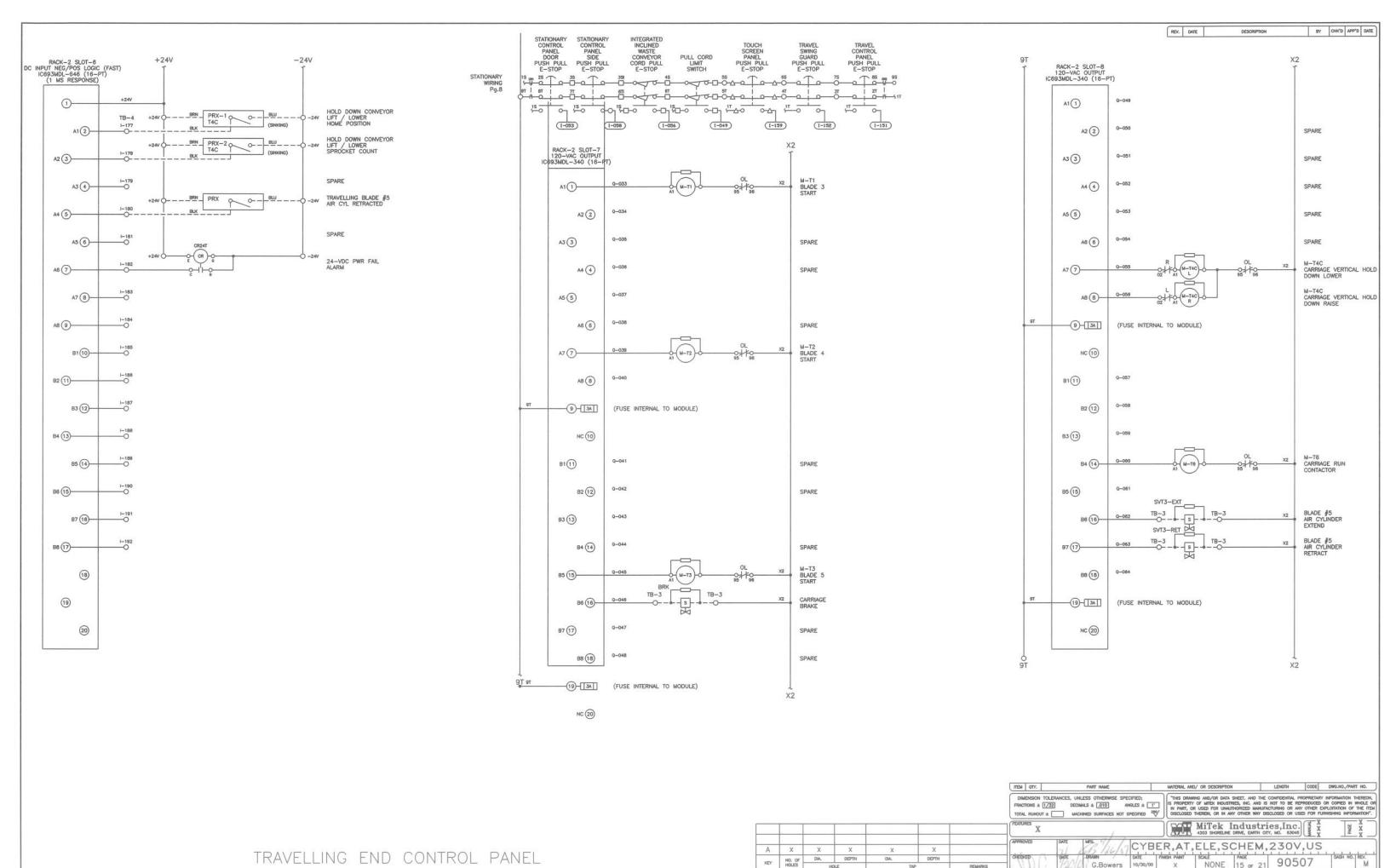
MEY NO. OF DAL DEPTH

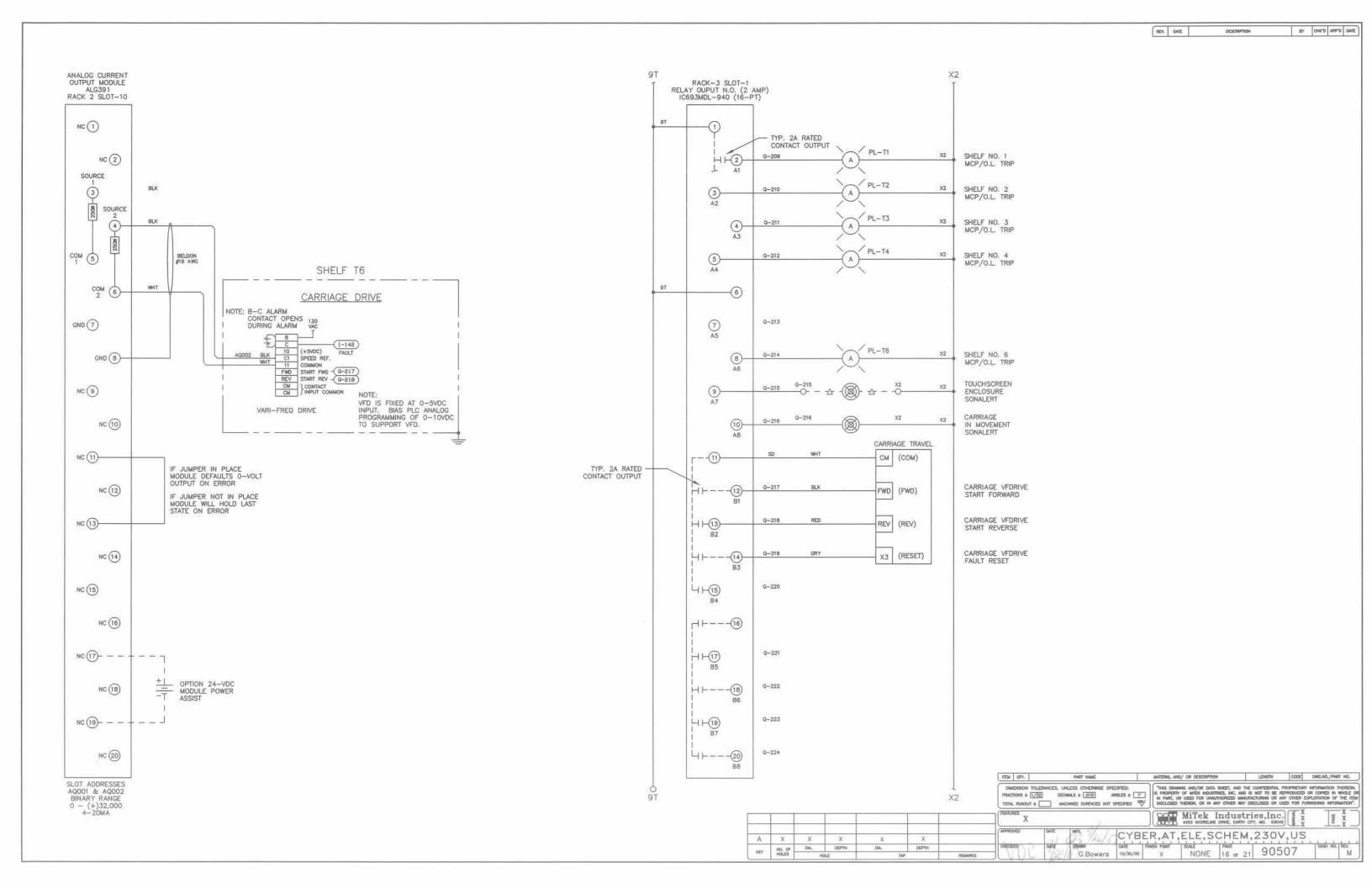
DEPTH

MiTek Industries,Inc.

CYBER, AT, ELE, SCHEM, 230V, US

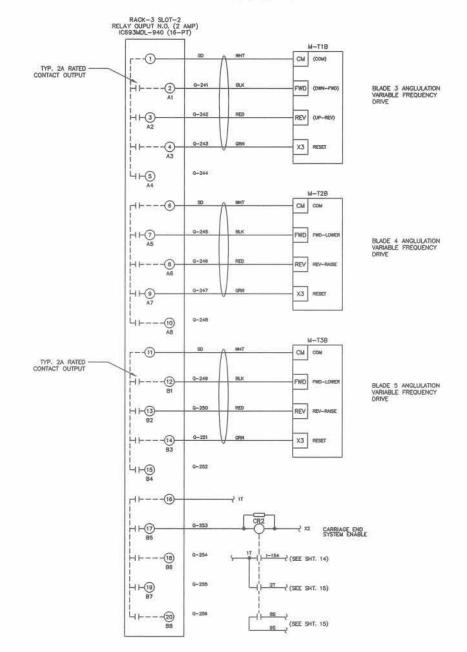
G.Bowers 10/30/00 X NONE 14 or 21 90507

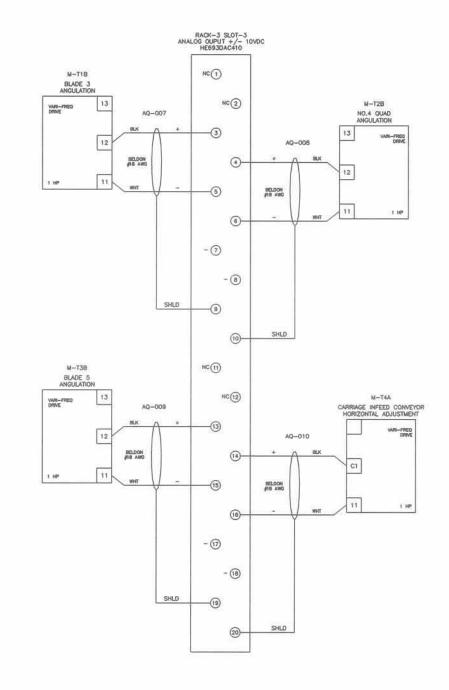






BELDEN CABLE (9418) EFFECTIVE FRAME #358 FORWARD

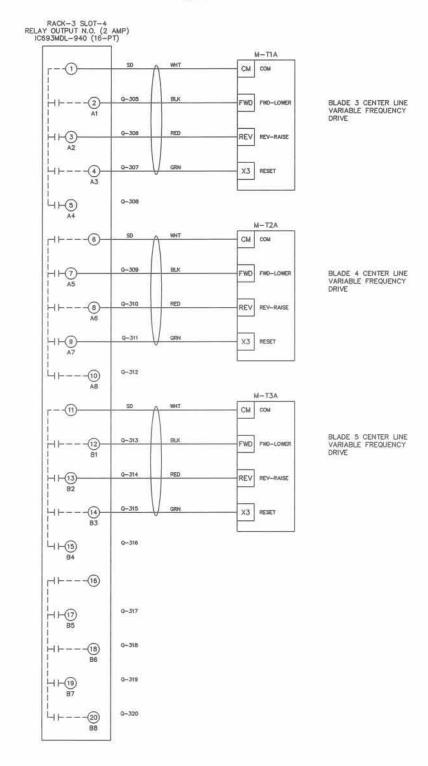




TIEM OTY. PART HAME MATERIAL AND/ OR DESCRIPTION LENGTH CODE DWG.HO./PART HO.

DIMENSION TOLEPHANCES, UNILESS OTHERWISE SPECIFED; PART HAS DRAWNED AND/OR DATA SHEXT, AND THE COMPIDENTAL PROPRIETARY INFORMATION THERDON, IN PROPRIETARY INFORMATION THERDON, IN PROPRIETARY INFORMATION THE REDON, IN PART, OR USED FOR USAND FOR USED FOR UNKNOON OF THE TOWN HAVE OR HAVE ON HIS MAY OF THE OWNER USED SENTING OR HAVE ORDER TOWN OF SECURITION OF THE PART SCALE FOR USED FOR USED

BELDEN CABLE (9418) EFFECTIVE FRAME #358 FORWARD



NC 1 M-TIA BLADE 3 CENTERLINE NC(2) VARI-FREQ DRIVE M-T2A BLADE 4 CENTERLINE AQ-018 3 12 (1 HP) -(5) - 7 - (8) SHLD -(9) SHLD 10-M-T3A NC (1) BLADE 5 CENTERLINE NC (12) VARI-FREQ DRIVE CARRIAGE HOLD DOWN HORIZONTAL ADJUSTMENT AQ-020 13 AQ-021 14)-(1 HP) 16)-- (17) - (18) SHLD SHLD

RACK-3 SLOT-5 ANALOG OUPUT +/- 10VDC HE693DAC410 BY CHK'D APP'D DATE

REV. DATE

TOUCHSCREEN PANEL

TRAVELING END CONTROL PANEL

TERMINALS LOCATED IN STATIONARY END CONTROL PANEL

TIEM GTY. PHATE NAME MATERIAL AND/OR DESCRIPTION LENTH CODE DWG,HO,/PART NO.

DIMENSION TOLERANCES, UNLESS OTHERWISE SPECIFIED:

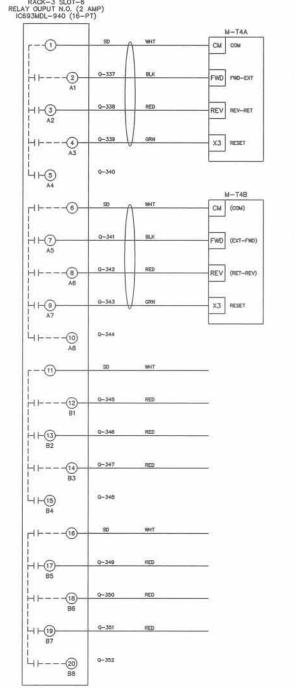
FRACTIONS ± 1/32 DECIMAL ± 2/10 ANGLES ± 1"

TOTAL RUNOUT ± MACHINED SURFACES NOT SPECIFIED

WACHINED SURFACES NOT SPECIFIED

WHITE ORGANISES, INC., AND THE COMPRIENTIAL PROPRIENTAL PROPRIE

BELDEN CABLE (9418) EFFECTIVE FRAME #358 FORWARD



CARRIAGE INFEED CONVEYOR HORIZONTAL ADJUSTMENTS

CARRIAGE HOLD DOWN CONVEYOR HORIZONTAL ADJUSTMENT

TOUCHSCREEN PANEL

TRAVELING END CONTROL PANEL

TERMINALS LOCATED IN STATIONARY END CONTROL PANEL

REV. DATE DESCRIPTION BY CHILD APP'D DATE

VFD SETTINGS (SEE MODEL#)

Parameter	Description	Carriage	Infeed	All Others
		MODEL	#6KE11	SERIES
F02	Operation Method	2	2	2
		MODEI	#AF-30	0 MINI
F02	Operation Method	1	1	1

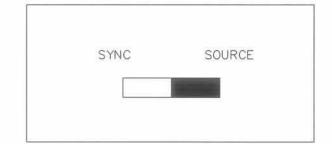
VFD SETTINGS FOR ALL MODELS

Parameter	Description	Carriage	Infeed	All Others
F01	Frequency Command	2	1	1
F07	Acceleration Time	1.00	1.00	1.00
F08	Deceleration Time	0.60	0.50	0.50
P03	Rated Current	7.75	7.75	Default

CHANGING PARAMETER SETTINGS

- 1) Press the PRG key to start the program mode
- 2) Press the Up/Down arrow keys to select the parameter to change.
- 3) Press the FUNC key to display the data
- 4) Use Up/Down arrow keys to change the data.
- 5) Press the FUNC key to store the data
- 6) Repeat step 2 thru 5 for all parameters that are to be changed.
- 7) After all settings have been made, press the PRG key to exit the program mode.

VFD SWITCHES



							ITEM QTY.		PART HAME		MATERIAL AN	ID/ OR DESCRIPTION	N I	LENGTH	000E	DWG.NO./PA	RT HO.
							DIMENSION TO FRACTIONS ± 1/2 TOTAL RUNOUT ±	32 DECI	ILESS OTHERWISE SPE MALS ± .010 A CHINED SURFACES NOT S	MGLES ± [1"	IS PROPERT	WING AND/OR DATA Y OF WITEK INDUST OR USED FOR UNAU THEREIN, OR IN A	RIES, INC. AND IS THORIZED MANUFA	NOT TO BE RE	EPRODUCED I	OR COPIED IN PLOTATION OF	WHOLE OR
							FEATURES X					MiTek 1	Industri	ies,Inc	X	PMGE	X
	×	×	X	х	×		APPROVED	DATE	B Tucks	CYB	ER,AT	ELE,S	СНЕМ,	230V	,US		
ŧ	HO. OF HOLES	D94.	DEPTH OLE	DUA	DEPTH	REMARKS	CHECKED	DATE	G.Bowers	DATE 10/30/00	FINISH PAINT X	NONE	19 or 21	905	07	DASH NO.	M M

