

ANGSTROM ENGINEERING

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02522-1 NEXDEP 206 DEPOSITION SYSTEM CONTROL SYSTEM ELECTRICAL SCHEMATICS

FILENAME	DRAWING DESCRIPTION	REV
02522-1-000	TITLE PAGE	0
02522-1-001	BILL OF MATERIAL #1	0
02522-1-002	BILL OF MATERIAL #2	0
02522-1-003	BILL OF MATERIAL #2	0
02522-1-010	208VAC 3PH POWER DISTRIBUTION	0
02522-1-011	DC POWER SUPPLIES	1
02522-1-012	UNFILTERED 120VAC DISTRIBUTION	0
02522-1-015	ROUGH PUMP POWER FEEDS	0
02522-1-016	TURBO PUMP POWER AND CONTROL	1
02522-1-020	STAGE MOTOR POWER	1
02522-1-030	RESISTIVE SOURCES 2 & 3	0
02522-1-050	SUBSTRATE HEATER	0
02522-1-060	SOURCE #1 EBEAM POWER SUPPLY	0
02522-1-061	SOURCE #1 EBEAM POWER CONTROLLER	1
02522-1-062	SOURCE #1 ANALOG SWEEP CONTROLLER	0
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02522-1-201	PLC MODULE 2,3 - DC INPUTS	1
02522-1-202	PLC MODULE 4 - ANALOG INPUTS	1
02522-1-300	CABLE CHART	0

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91 Trillium Drive
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Phone: 519-894-4441
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CUSTOMER: UNIVERSITY OF MIAMI			
TITLE: NEXDEP 206 TITLE PAGE			
SCALE: NTS	REV: 0	DRAWN BY: L.E.	CHECKED BY:
DATE: FEB/13	JOB NO: 02522-1	DRAWING NO: 02522-1-000	

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TAGS	QTY	SUB	MFG	CATALOG	DESCRIPTION
CBL-12219	1			ETHERNET CROSSOVER	
DS-01003	1	*1	ABB	OS60GJ12	FUSED DISCONNECT, 60 A, J TYPE FUSES ROTARY FUSED DISCONNECT 60 AMP 3 POLE 600 V 200 KA SHORT CIRCUIT RATING
		*1	ABB	OHB65J6E00B	DISCONNECT HANDLE, PISTOL TYPE WITH REVERSED ON/OFF DISCONNECT HANDLE PISTOL TYPE REVERSED ON/OFF TEXT
		*1	ABB	OXp6X210	DISCONNECT SHAFT, 210 MM DISCONNECT SHAFT 210 MM LENGTH
		*3	LITTELFUSE	JTD-060ID	J CLASS FUSE, TIME DELAY J CLASS 600 V 60 AMP BRANCH CIRCUIT PROTECTION TIME DELAY
SOL-01/10	1		AGILENT	9699843M003	TURBO VENT VALVE 24 VDC WITH TURBO
PRS-02/02	1		AIR LOGIC	F-5100-100-PT	PRESSURE SENSOR 0.5 PSI - 100 PSI, PIPE THREAD MOUNT, 1/8-27 NPT, SPDT 15 A ELECTROMECHANICAL PRESSURE SWITCH 100 PSI F-5100 SERIES SUBMINIATURE PRESSURE SWITCH
XF-03019 XF-03026	2		CALCOIL MAGNETICS	9807	VOLTAGE TRANSFORMER - 230 VAC PRIMARY, 10 VAC SECONDARY VOLTAGE TRANSFORMER 2500 VA
CON-00/03 CON-00/04	2		CARLO GAVAZZI	CC-18SD-24	MOTOR CONTACTOR, 18 A, 3 POLE, 24 VDC COIL MOTOR CONTACTOR 24VDC 3 NO + 1 NO AUX + 1 NC AUX SCREW TERMINALS
CR-14002 CR-14110	2		CARLO GAVAZZI	CC-50LD-24	MOTOR CONTACTOR, 50 A, 3 POLE, 24 VDC COIL MOTOR CONTACTOR 24VDC 3 NO + 2 NO AUX + 2 NC AUX SCREW TERMINALS
CON-00/00 CON-00/02	2		CARLO GAVAZZI	CGMS-12D-24S-10	MOTOR CONTACTOR, 12 A, 3 POLE, N.O. AUX., 24 VDC COIL MOTOR CONTACTOR 24VDC 3 NO, 1 NO AUX.
SSR-05015	1		CARLO GAVAZZI	RJ1P23V30E	SOLID STATE RELAY, ANALOG SWITCHING, SINGLE POLE 230VAC, 30A 0-10V CONTROL INPUT
OL-01504	1		CARLO GAVAZZI	CGT-12M/4	OVERLOAD RELAY, 2.5-4A FOR CGMS-12D CONTACTORS 2.5 - 4A
PW-01103	1		CARLO GAVAZZI	SPD242401	DC POWER SUPPLY, 240 WATTS, 93-264 VAC IN, 10A 24VDC OUT 24VDC, 240 WATTS DC POWER SUPPLY
LF-01203	1		CORCOM	20VB6	GENERAL PURPOSE LINE FILTER, 20 A LINE FILTER 20 A
CAP-12327 CAP-12330	2		DIGI-KEY	478-3144-1-ND	CAPACITOR, CERAMIC, 10 000 pF CERAMIC CAPACITOR 10 000 pf (0.01 µF)
R-12326 R-12329	2		DIGI-KEY	47QBK-ND	RESISTOR, 47 OHM, 1/4 WATT RESISTOR 47 OHM 1/4 WATT CARBON FILM
SR-14102	1		EUCHNER	ESM-BA301	SAFETY RELAY 24 VAC/DC
DS-14105	1	*1	EUCHNER	100753	CODED MAGNETIC SENSOR 2 N.O. CONTACTS CMS-R-BZB-SC
		*1	EUCHNER	092025	MAGNETIC SENSOR ACTUATOR CODED MAGNET CMS-M-BH
SOL-14115	1		FESTO	165068	ON/OFF VALVE AIR DUMP VALVE 2.5W
VALVEBANKCABLE	1		FESTO	KMP6-15P-12-2.5	VALVE BANK CABLE SIGNAL CABLE 2.5 METERS
CBL-14114	1		FESTO	151689	VALVE CABLE - DUMP VALVE CABLE

TAGS	QTY	SUB	MFG	CATALOG	DESCRIPTION
RECPT-12003	1		HAMMOND MFG.	1584H8A1	8 RECEPTACLE POWER BAR, 15 A CIRCUIT BREAKER POWER BAR 8
R-05019	1		HONESOM ENTERPRISE CO.	HH230-1850RW-CQ8	INFRARED HEATER BULB, 4" CIRCULAR, SPECIAL EYELETS, BENT AT A RIGHT ANGLE INFRARED EMITTER 1850 WATTS
CR-06127 CR-06134	2	*1	IMO	ETS-1CN-S-L-24VDC	SUBMINIATURE POWER RELAY CONTROL RELAY 18-24 VDC 1 FORM C & 1 FORM A
		*1	IMO	SRSI-24DC	RELAY BASE FOR ETS SUBMINIATURE RELAYS - DC ONLY RELAY BASE FOR ETS, DC TYPE RELAYS DC ONLY AgNi (SILVER/NICKEL) CONTACTS
CR-00/01 CR-14112	2	*1	IMO	HY41PN24DC	RELAY, 5 A, 4 POLE CHANGEOVER, 24 VDC COIL WITH LED CONTROL RELAY 24VDC 4 FORM C
		*1	IMO	SRN4-S	RELAY BASE FOR RY/HY 4 POLE RELAYS RELAY BASE FOR RY/HY RELAYS NA 4 FORM C NO, NC, COM ON TOP
SIG-14204	1		INFICON	MPG400	INVERTED MAGNETRON AND PIRANI GAUGE VACUUM GAUGE 3.8x10-9 Torr 0-10 VDC 351-010
PJ-01504	1	*1	ITC	CHI 06 L	6 PIN, BULKHEAD SCREW TERMINAL 16A MAX
		*1	ITC	CNEF 06T	6 PIN, FEMALE INSERT SCREW TERMINAL 16A MAX
		*2	ITC	CR20	CODING PIN SCREW TERMINAL 16A MAX
		*1	ITC	CNEM 06T	6 PIN, MALE INSERT SCREW TERMINAL 16A MAX
		*1	ITC	CHV 06 L16	6 PIN, TOP ENTRY HOOD SCREW TERMINAL 16A MAX
		*1	MENCOM	PCG-16	PLASTIC CABLE GLAND, GRAY, PG16 PG16 0.394-0.551 DIAMETER RANGE USED WITH HARTING CONNECTORS
CBL-14209 CBL-14309	2		L-COM	TRD855SCR-30	SHIELDED ETHERNET CABLE ETHERNET VACUUM GAUGE CABLE 30 FEET
FU-12017	1	*1	LITTELFUSE	LPSC0001ZXID	FUSE HOLDER WITH INDICATOR FUSE HOLDER 600 V 30 A SINGLE POLE
		*1	LITTELFUSE	CCMR-00.5	CC CLASS FUSE, TIME DELAY TIME DELAY 600 V 0.5 AMP BRANCH CIRCUIT PROTECTION
FU-12003	1	*1	LITTELFUSE	LPSC0001ZXID	FUSE HOLDER WITH INDICATOR FUSE HOLDER 600 V 30 A SINGLE POLE
		*1	LITTELFUSE	CCMR-12	CC CLASS FUSE, TIME DELAY TIME DELAY 600 V 12 AMP BRANCH CIRCUIT PROTECTION
FU-01203	1	*1	LITTELFUSE	LPSC0001ZXID	FUSE HOLDER WITH INDICATOR FUSE HOLDER 600 V 30 A SINGLE POLE
		*1	LITTELFUSE	CCMR-15	CC CLASS FUSE, TIME DELAY TIME DELAY 600 V 15 AMP BRANCH CIRCUIT PROTECTION

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TITLE: NEXDEP 206 BILL OF MATERIAL #1			
SCALE: NTS	REV: 0	DRAWN BY: L.E.	CHECKED BY:
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TAGS	QTY	SUB	MFG	CATALOG	DESCRIPTION
FU-01105	1	*1	LITTELFUSE	LPSC0001ZXID	FUSE HOLDER WITH INDICATOR FUSE HOLDER 600 V 30 A SINGLE POLE
		*1	LITTELFUSE	CCMR-06	CC CLASS FUSE, TIME DELAY TIME DELAY 600 V 6 AMP BRANCH CIRCUIT PROTECTION
FU-01103	1	*1	LITTELFUSE	LPSC0001ZXID	FUSE HOLDER WITH INDICATOR FUSE HOLDER 600 V 30 A SINGLE POLE
		*1	LITTELFUSE	CCMR-07	CC CLASS FUSE, TIME DELAY TIME DELAY 600 V 7 AMP BRANCH CIRCUIT PROTECTION
FU-05014	1	*1	LITTELFUSE	LPSC0002ZXID	FUSE HOLDER WITH INDICATOR FUSE HOLDER 600 V 30 A 2 POLE
		*2	LITTELFUSE	CCMR-10	CC CLASS FUSE, TIME DELAY TIME DELAY 600 V 10 AMP BRANCH CIRCUIT PROTECTION
FU-03007	1	*1	LITTELFUSE	LPSC0002ZXID	FUSE HOLDER WITH INDICATOR FUSE HOLDER 600 V 30 A 2 POLE
		*2	LITTELFUSE	CCMR-02	CC CLASS FUSE, TIME DELAY TIME DELAY 600 V 2 AMP BRANCH CIRCUIT PROTECTION
FU-03016	1	*1	LITTELFUSE	LPSC0002ZXID	FUSE HOLDER WITH INDICATOR FUSE HOLDER 600 V 30 A 2 POLE
		*2	LITTELFUSE	CCMR-15	CC CLASS FUSE, TIME DELAY TIME DELAY 600 V 15 AMP BRANCH CIRCUIT PROTECTION
FU-01601	1	*1	LITTELFUSE	LPSC0002ZXID	FUSE HOLDER WITH INDICATOR FUSE HOLDER 600 V 30 A 2 POLE
		*2	LITTELFUSE	CCMR-03	CC CLASS FUSE, TIME DELAY TIME DELAY 600 V 3 AMP BRANCH CIRCUIT PROTECTION
FU-01544 FU-02003	2	*1	LITTELFUSE	LPSC0002ZXID	FUSE HOLDER WITH INDICATOR FUSE HOLDER 600 V 30 A 2 POLE
		*2	LITTELFUSE	CCMR-00.25	CC CLASS FUSE, TIME DELAY TIME DELAY 600 V 0.25 AMP BRANCH CIRCUIT PROTECTION
FU-06031	1	*1	LITTELFUSE	LPSC0003ZXID	FUSE HOLDER WITH INDICATOR FUSE HOLDER 600 V 30 A 3 POLE
		*3	LITTELFUSE	CCMR-30	CC CLASS FUSE, TIME DELAY TIME DELAY 600 V 30 AMP BRANCH CIRCUIT PROTECTION

TAGS	QTY	SUB	MFG	CATALOG	DESCRIPTION
FU-01504	1	*1	LITTELFUSE	LPSC0003ZXID	FUSE HOLDER WITH INDICATOR FUSE HOLDER 600 V 30 A 3 POLE
		*3	LITTELFUSE	CCMR-03	CC CLASS FUSE, TIME DELAY TIME DELAY 600 V 3 AMP BRANCH CIRCUIT PROTECTION
PDB-01046	1	*1	MARATHON	1403401	POWER DISTRIBUTION BLOCK, 1 IN, 6 OUT, 600 V, 175 A IN #2/0 TO #14 OUT #4 TO #14 3-POLE
		*1	MARATHON	CC1403	COVER FOR POWER DISTRIBUTION BLOCK FOR 1403 STYLE PDBS 3-POLE
PDB-01002A	1	*1	MARATHON	1421570	POWER DISTRIBUTION BLOCK POWER DISTRIBUTION BLOCK SINGLE POLE
		*1	MARATHON	CC1421	DISTRIBUTION BLOCK COVER FOR 142 POWER DISTRIBUTION BLOCKS SINGLE POLE
PJ-14105	1		MURR ELEKTRONIK	7000-08061-2210500	CABLE, M8 CONNECTOR, 4 PIN FEMALE, SINGLE ENDED, 5 METRES M8 CABLE, SINGLE ENDED 4PIN STRAIGHT CONNECTOR, GREY
PJ-20128	1		MURR ELEKTRONIK	7000-08101-2210500	CABLE, M8 CONNECTOR, 4 PIN FEMALE, SINGLE ENDED, 5 METRES M8 CABLE, SINGLE ENDED 4PIN 90 DEGREE CONNECTOR, GREY
PD-12318	1		OMRON	CX-SUPERVISOR-RUN-ME-V3	PROGRAMMING DONGLE CX-SUPERVISOR MACHINE EDITION
PC-03001	1		OMRON	G3PW-A220EU-S	POWER CONTROLLER 100 - 240 VAC 20 AMPS SCREW TERMINATION, NO COMMUNICATIONS, NO CURRENT CONTROL
OB-20039 OB-20039A	2		OMRON	G7TC-OC16-DC24	RELAY OUTPUT BLOCK 16 OUTPUT POINTS, 24 VDC, NPN,
IB-20139	1		OMRON	XW2B-40G4	CONNECTOR TERMINAL BLOCK 40 POINTS WITH M2.5 SCREWS
PLC-12209	1		OMRON	CJ1M-CPU12-ETN	CJ1 SERIES PLC - CPU WITH ETHERNET CPU 320 I/O POINTS, 10K STEPS, 32K WORDS DATA MEM. CAP. 0.1µS LD INSTR. PROC. SPEED, 10 MAX. MOD., NO MAX. EXP. RACK
PLC02	1		OMRON	CJ1W-AD041-V1	CJ1 SERIES PLC - SPECIAL I/O MODULE CJ1 SERIES PLC ANALOG INPUT 1-5V, 1-5V, 0-5V, -10-10V, 4-20mA 4 POINT INPUT, 250µS/PT CONV. SPEED
PLC-20039A	1		OMRON	CJ1W-MD261	CJ1 SERIES PLC - MIXED I/O MODULE CJ1 SERIES PLC DISCRETE COMBINATION 32 OUTPUT POINTS, 32 INPUT POINTS
PLC-12209A	1		OMRON	CJ1W-PA205R	CJ1 SERIES PLC - POWER SUPPLY CJ1 SERIES PLC POWER SUPPLY POWER SUPPLY, 100-240 VAC, 50/60 HZ, 100 VA MAX.
CBL-20037	1		OMRON	G790100C-75	OUTPUT BLOCK CONNECTING CABLE - 2 CONNECTORS I/O BLOCK CONNECTING CABLE
CBL-20137	1		OMRON	XW2Z-050B	INPUT CONNECTING CABLE I/O BLOCK CONNECTING CABLE FOR FUJITSU CONNECTOR TYPE MODULES 0.5 METRES
DR-02003	1		ORIENTAL MOTOR	USP315-2E	VARIABLE SPEED MOTOR CONTROLLER 220-230 VAC SINGLE PHASE 15 W 90 - 1600 RPM 0.21 FLA
MOT-02010	1		ORIENTAL MOTOR	US315-402E	SINGLE PHASE MOTOR 220/230VAC 0.22A
CBL-02007	1		ORIENTAL MOTOR	CC03SS052	MOTOR EXTENSION CABLE MOTOR EXTENSION CABLE US SERIES MOTORS 3 METRE LENGTH

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TITLE: NEXDEP 206 BILL OF MATERIAL #2			
SCALE: NTS	REV: 0	DRAWN BY: L.E.	CHECKED BY:
DATE: FEB/13	JOB NO: 02522-1	DRAWING NO: 02522-1-002	

TAGS	QTY	SUB	MFG	CATALOG	DESCRIPTION
FAN-01542	1		ORION	OA172AP-22-1TB	COOLING FAN 160-260 VAC 235CFM 35WATTS
SIG-03009	1		SIEMENS	3RS1700-1DD00	SIGNAL CONVERTER 4-20mA TO 0-10VDC
CI-06313	1		SIGMA	CI-100	
FS-20128	1		SMC	PF2W720-N03-67	FLOW SWITCH, DIGITAL, PROGRAMMABLE 12 TO 24 VDC PNP
SOL-00/06	1		SMC	XSA3-32V-5D	SOLENOID VALVE NORMALLY CLOSED HIGH VACUUM
PDB-01002	1		TECHSPAN	N70141	COPPER GROUND BAR 12 POLE PANEL MOUNT
PW-06001 XF-06020 EPC-06104	2 1		TELEMARK	TT-6	
SC-06211	1		TELEMARK	132-0600-1	E-BEAM POWER CONTROLLER E-BEAM TT-6 POWER CONTROLLER ANALOG SWEEP CONTROLLER FOUR REMOTE SELECTION J1 ALLOWS TT-6 REMOTE CONTROL 208-240 VAC 50-60HZ 1.0A
PB-14002	1	*1	TELEMECANIQUE	ZB5AW743	PUSHBUTTON HEAD Ø40mm- TURN TO RELEASE - Ø22 - RED 22mm RED SHAPE OF HEAD=ROUND
		*1	TELEMECANIQUE	ZBE101	CONTROL BUTTON CONTACT BLOCK - ZBE Ø22 - 1NO 22mm SCREW-CLAMPS TERMINALS 1 NO CONTACTS COMPOSITION=1 NO
		*2	TELEMECANIQUE	ZBE102	CONTROL BUTTON CONTACT BLOCK - ZBE Ø22 - 1NC 22mm SCREW-CLAMPS TERMINALS 1 NC CONTACTS COMPOSITION=1 NC
		*1	TELEMECANIQUE	ZBVB1	LIGHT BLOCK - Ø22 - INTEGRAL LED WHITE - 24V 22mm WHITE LIGHT BLOCK TYPE=STEADY LIGHT BLOCK
		*1	TELEMECANIQUE	ZB5AZ009	E-STOP MOUNTING COLLAR PLASTIC FOR USE WITH ZB5AW743 TWIST PUSHBUTTON
		*1	TELEMECANIQUE	ZB4BZ1905	E-STOP SHROUD, YELLOW 22mm ACCESSORY NONE
TP-01607	1		VARIAN	1001-NAV	MOTOR CONTROLLER, TURBO PUMP 115 VAC, 3.0 FLA
MOT-01505	1		VARIAN	PTS03003UNIV	ROUGH VACUUM PUMP AC MOTOR 0.75 HP 200 - 230 VAC @ 60 Hz/380 - 415 VAC @ 50 Hz 2.4FLA @ 200-230/1.3 A @ 380 - 415
SOL-00/05	1		VAT	26428-KA31-0001/022 1	SOLENOID VALVE 24 VDC 25 mm
TC-05023	1		WATLOW	PM6C1FA-AAAAAA	TEMPERATURE CONTROLLER - SINGLE UNIVERSAL OUTPUT 100-240 VAC UNIVERSAL PROCESS OUTPUT 1 NO ALARM ENGLISH STANDARD PART
FU-14207	1	*1	WEIDMULLER	1880410000	1/4 X 1-1/4 GLASS FUSE HOLDER WITH 10 -36 V AC/DC LED IND. FUSE HOLDER 10 -36 VDC TERMINAL BLOCK STYLE
		*1	LITTELFUSE	0312002.VXP	GLASS FUSE, FAST ACTING FAST ACTING 250 V 2 AMP
FU-14101	1	*1	WEIDMULLER	1880410000	1/4 X 1-1/4 GLASS FUSE HOLDER WITH 10 -36 V AC/DC LED IND. FUSE HOLDER 10 -36 VDC TERMINAL BLOCK STYLE

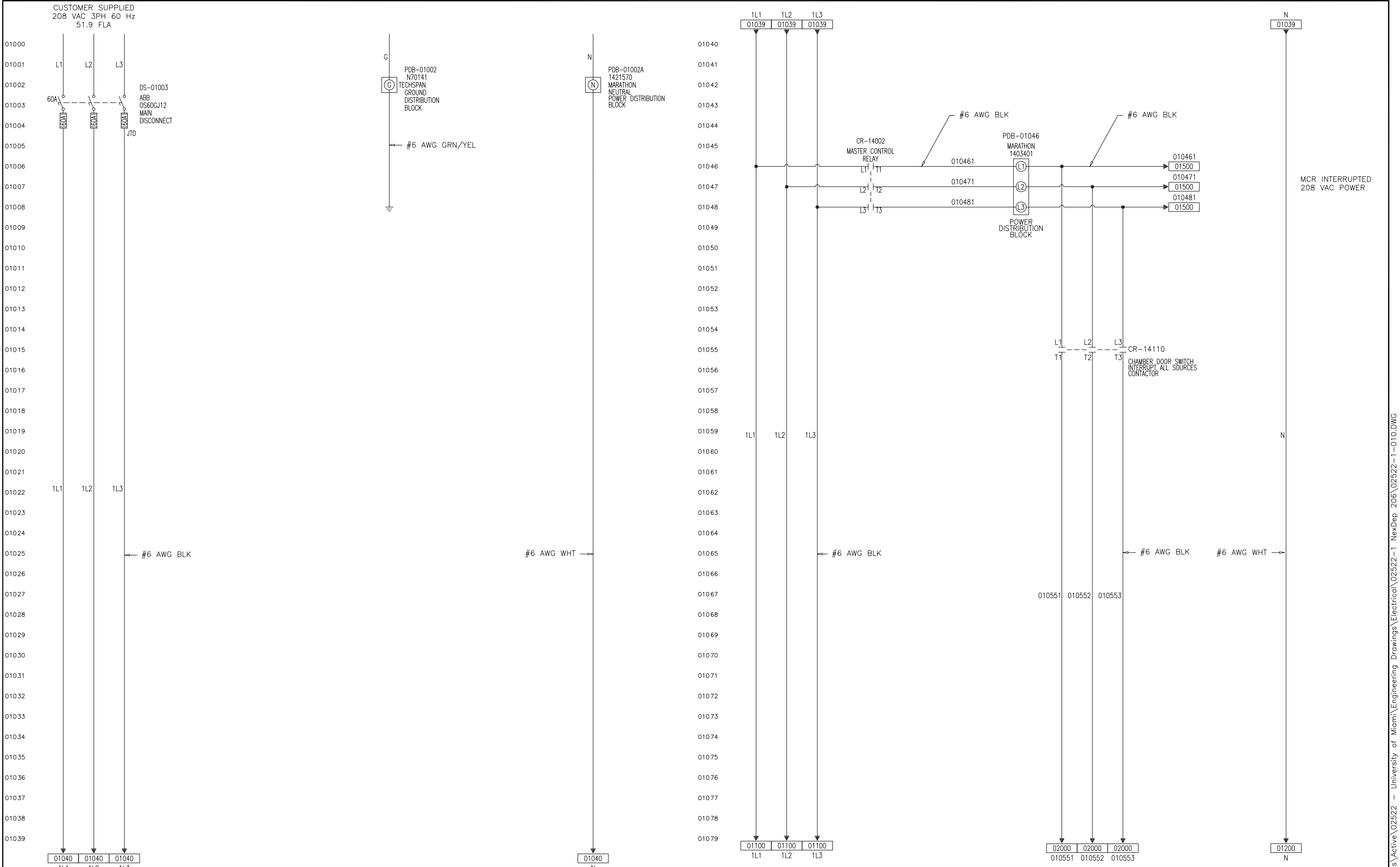
TAGS	QTY	SUB	MFG	CATALOG	DESCRIPTION
		*1	LITTELFUSE	0312.375VXP	GLASS FUSE, FAST ACTING FAST ACTING 250 V 0.375 AMP
FU-14110	1	*1	WEIDMULLER	1880410000	1/4 X 1-1/4 GLASS FUSE HOLDER WITH 10 -36 V AC/DC LED IND. FUSE HOLDER 10 -36 VDC TERMINAL BLOCK STYLE
		*1	LITTELFUSE	0312.800VXP	GLASS FUSE, FAST ACTING FAST ACTING 250 V 0.80 AMP
FU-14014	1	*1	WEIDMULLER	1880410000	1/4 X 1-1/4 GLASS FUSE HOLDER WITH 10 -36 V AC/DC LED IND. FUSE HOLDER 10 -36 VDC TERMINAL BLOCK STYLE
		*1	LITTELFUSE	0312003.VXP	GLASS FUSE, FAST ACTING FAST ACTING 250 V 3 AMP
FU-14002 FU-14045	2	*1	WEIDMULLER	1880410000	1/4 X 1-1/4 GLASS FUSE HOLDER WITH 10 -36 V AC/DC LED IND. FUSE HOLDER 10 -36 VDC TERMINAL BLOCK STYLE
		*1	LITTELFUSE	0312.100VXP	GLASS FUSE, FAST ACTING FAST ACTING 250 V 0.1 AMP
FU-14042	1	*1	WEIDMULLER	1880410000	1/4 X 1-1/4 GLASS FUSE HOLDER WITH 10 -36 V AC/DC LED IND. FUSE HOLDER 10 -36 VDC TERMINAL BLOCK STYLE
		*1	LITTELFUSE	0312.250VXP	GLASS FUSE, FAST ACTING FAST ACTING 250 V 0.25 AMP
FU-12207	1	*1	WEIDMULLER	1880420000	1/4 X 1-1/4 GLASS FUSE HOLDER WITH 60 -150 V AC/DC LED IND. FUSE HOLDER 60 - 150 V TERMINAL BLOCK STYLE
		*1	LITTELFUSE	0312002.VXP	GLASS FUSE, FAST ACTING FAST ACTING 250 V 2 AMP

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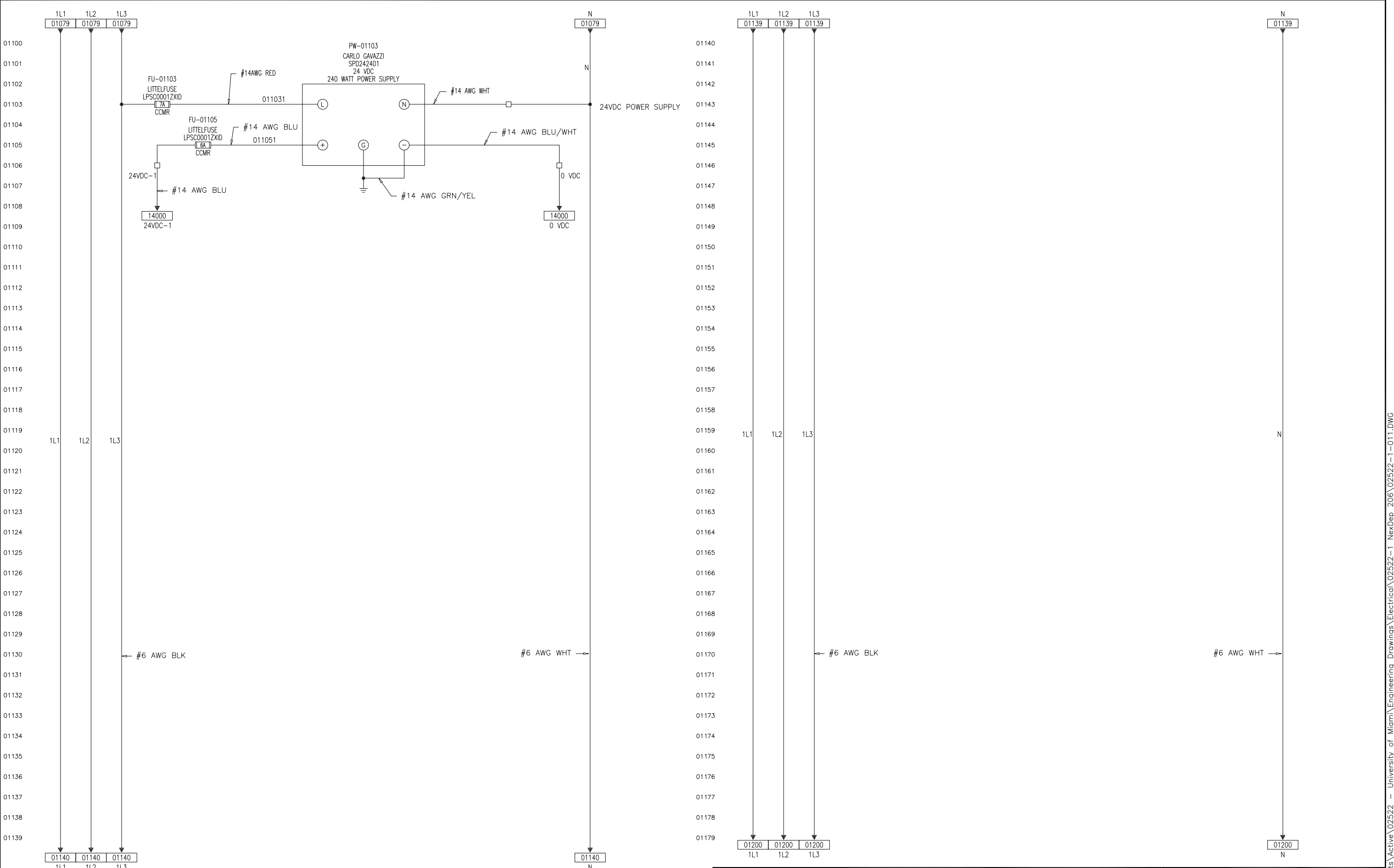
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CUSTOMER: UNIVERSITY OF MIAMI			
TITLE: NEXDEP 206 BILL OF MATERIAL #2			
SCALE: NTS	REV: 0	DRAWN BY: L.E.	CHECKED BY:
DATE: FEB/13	JOB NO: 02522-1	DRAWING NO: 02522-1-003	



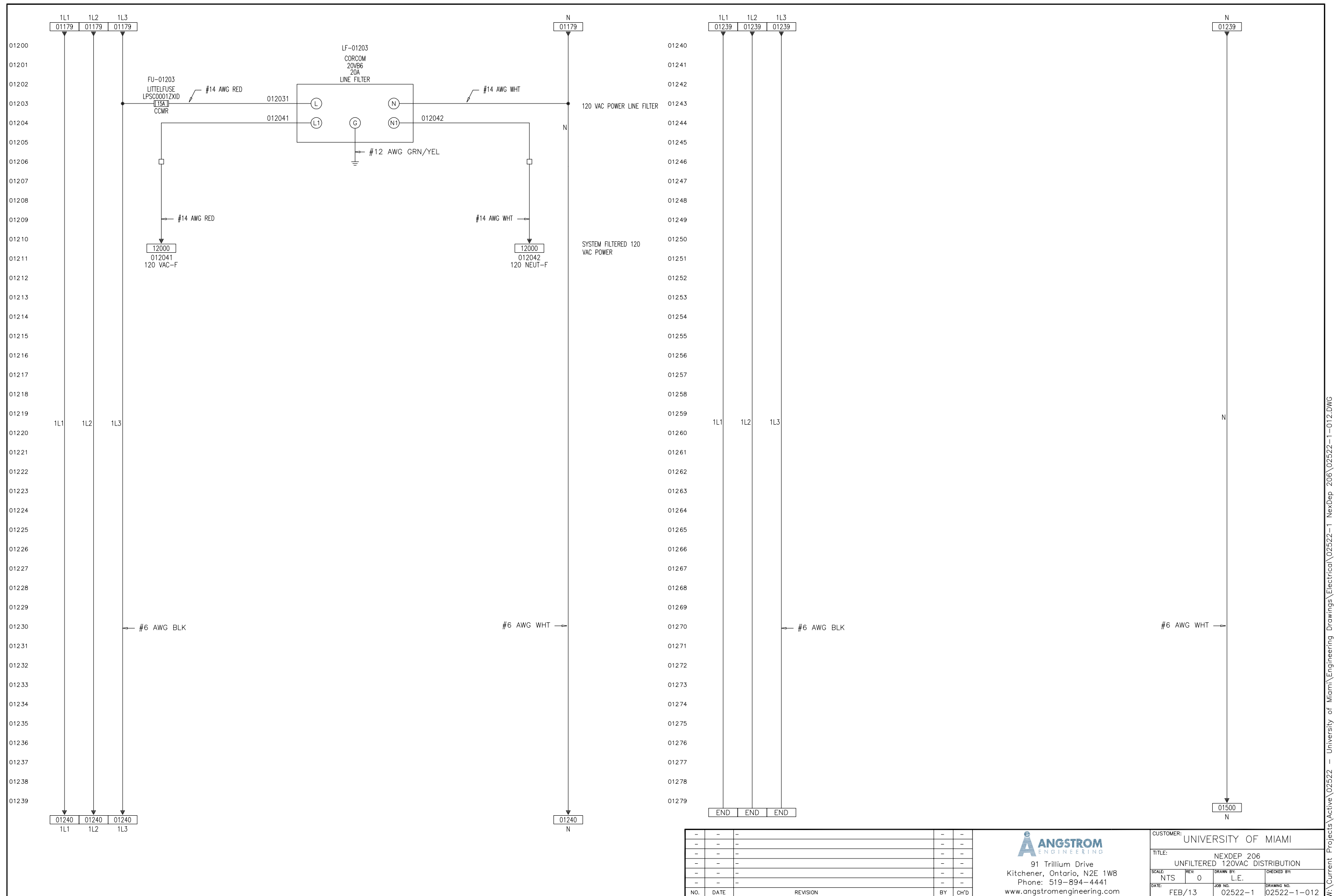
-	-	-	-	-	-	 91 Trillium Drive Kitchener, Ontario, N2E 1W8 Phone: 519-894-4441 www.angstromengineering.com	CUSTOMER: UNIVERSITY OF MIAMI TITLE: NEXDEP 206 208VAC 3PH POWER DISTRIBUTION <table><tr><td>SCALE: NTS</td><td>REV: 0</td><td>DRAWN BY: L.E.</td><td>CHECKED BY:</td></tr><tr><td>DATE: FEB/13</td><td>JOB NO: 02522-1</td><td>DRAWING NO: 02522-1-010</td><td></td></tr></table>				SCALE: NTS	REV: 0	DRAWN BY: L.E.	CHECKED BY:	DATE: FEB/13	JOB NO: 02522-1	DRAWING NO: 02522-1-010	
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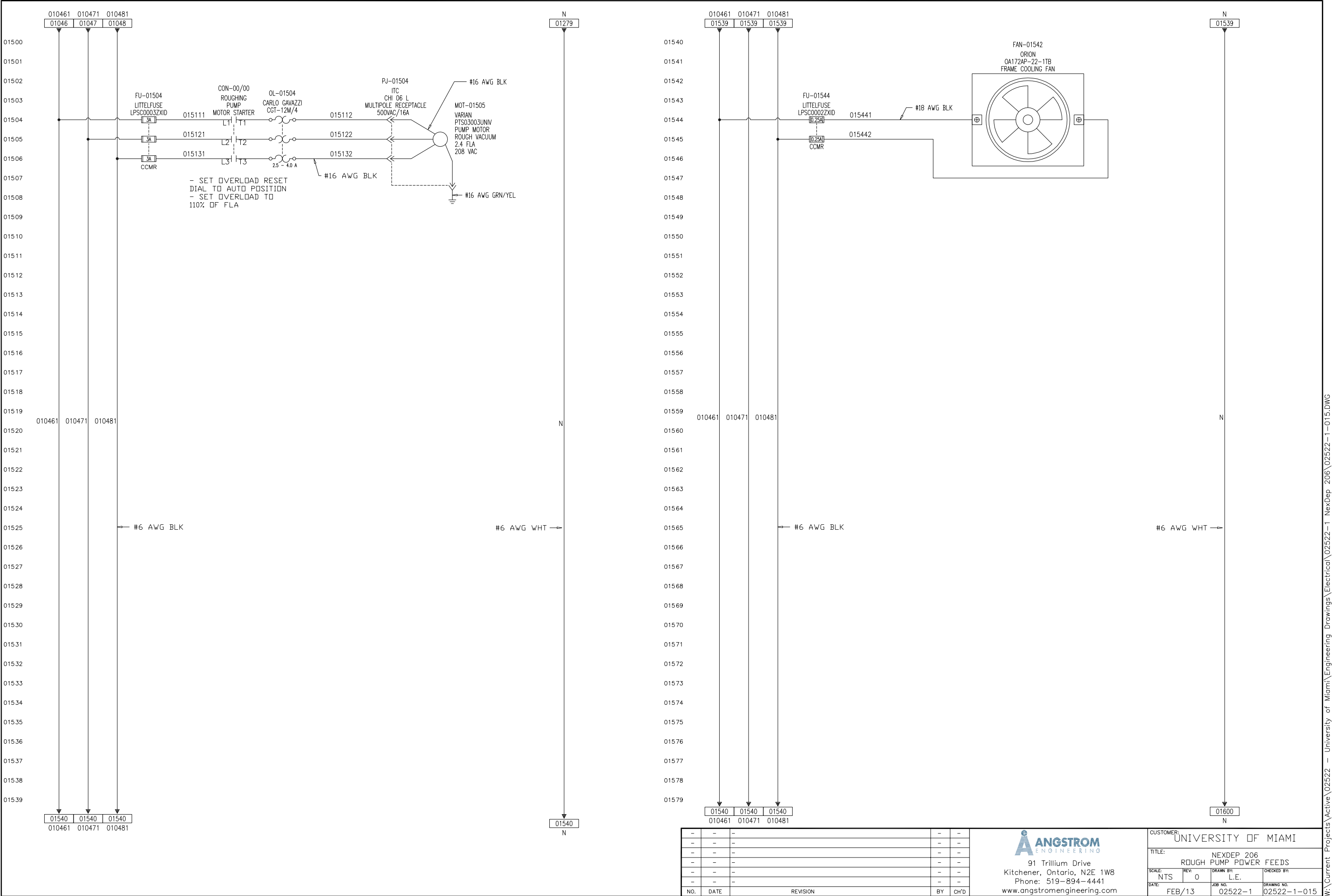
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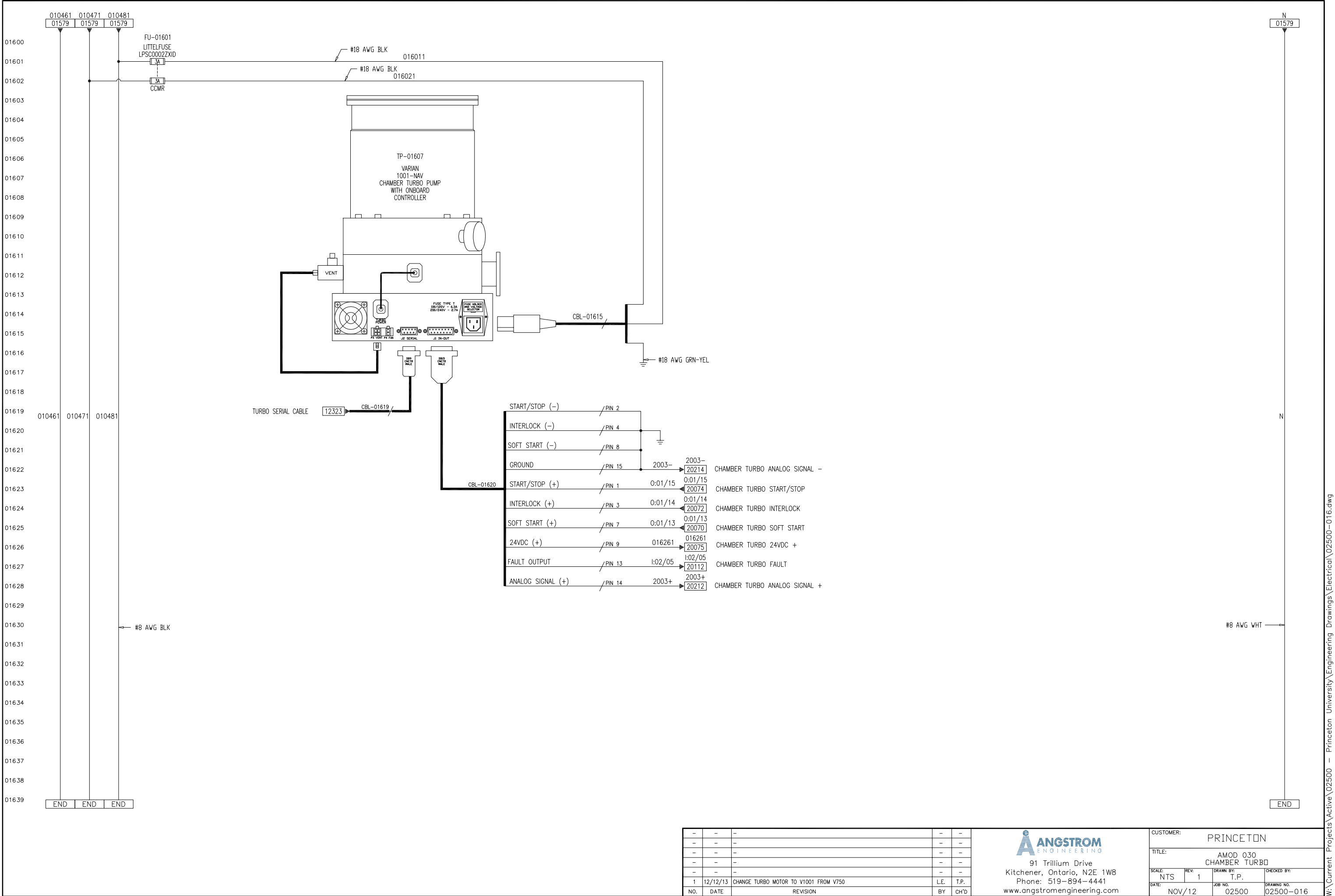


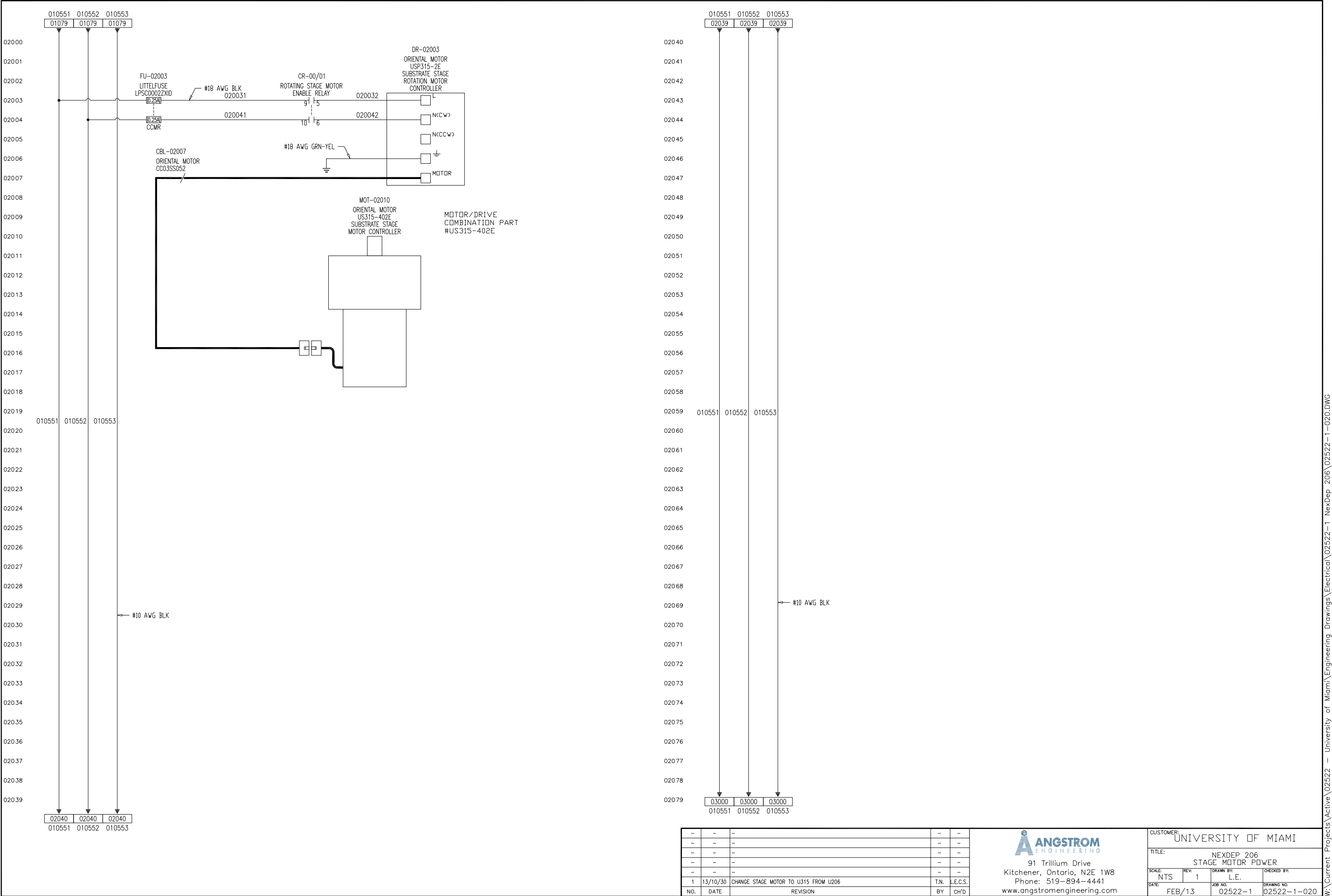
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1	12/12/13	REMOVE 48V DC POWER SUPPLY FOR TURBO	L.E.	T.P.
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CUSTOMER: UNIVERSITY OF MIAMI			
TITLE: NEXDEP 206 DC POWER SUPPLIES			
SCALE: NTS	REV: 1	DRAWN BY: L.E.	CHECKED BY:
DATE: FEB/13	JOB NO: 02522-1	DRAWING NO: 02522-1-011	









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1	13/10/30	CHANGE STAGE MOTOR TO U315 FROM U206	T.N.	L.E.C.S.
NO.	DATE	REVISION	BY	CH'D

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CUSTOMER:

UNIVERSITY OF MIAMI

TITLE:

NEXDEP 206
STAGE MOTOR POWER

SCALE:

NTS

REV:

1

DRAWN BY:

L.E.

CHECKED BY:

DATE:

FEB/13

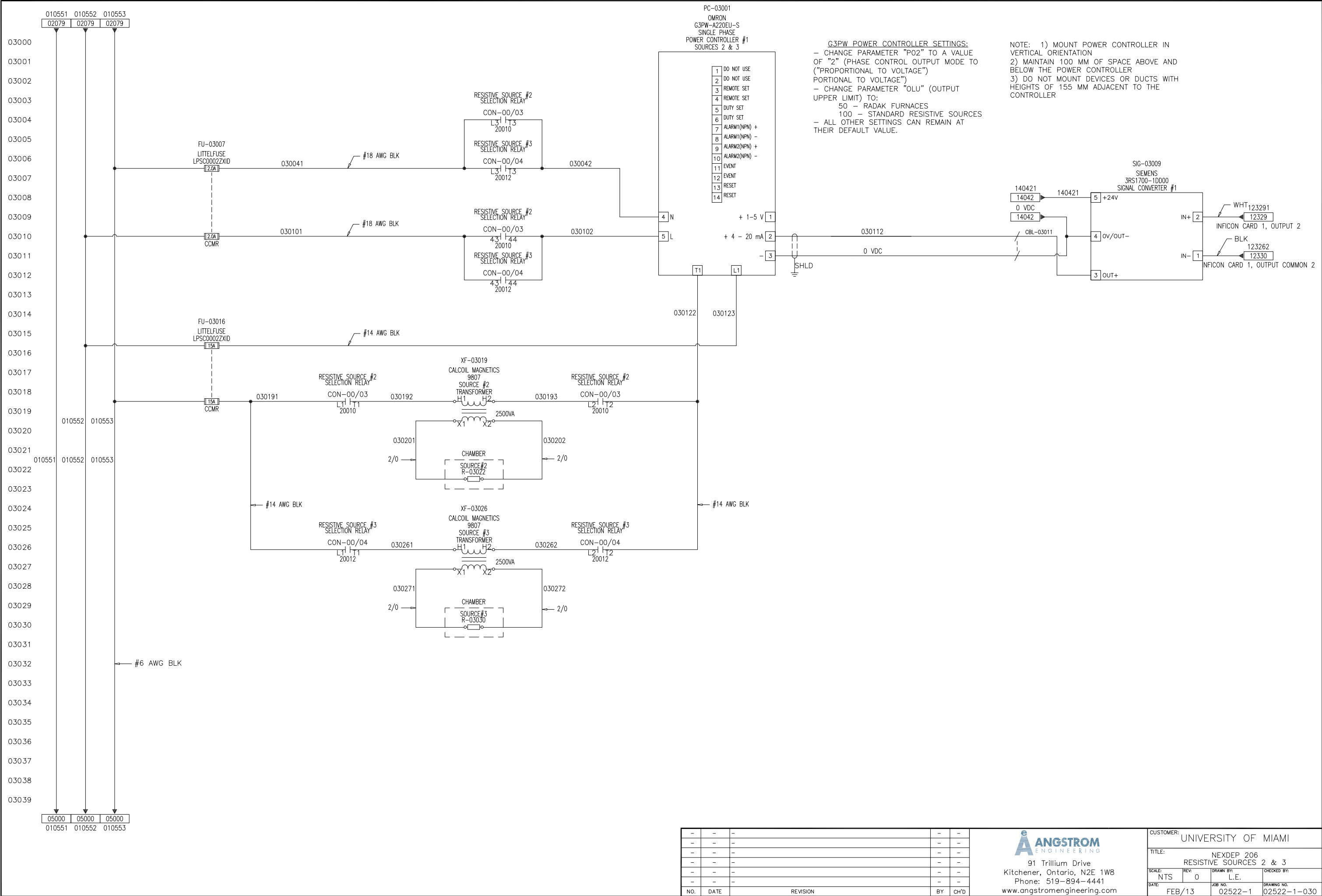
JOB NO.

02522-1

DRAWING NO.

02522-1-020

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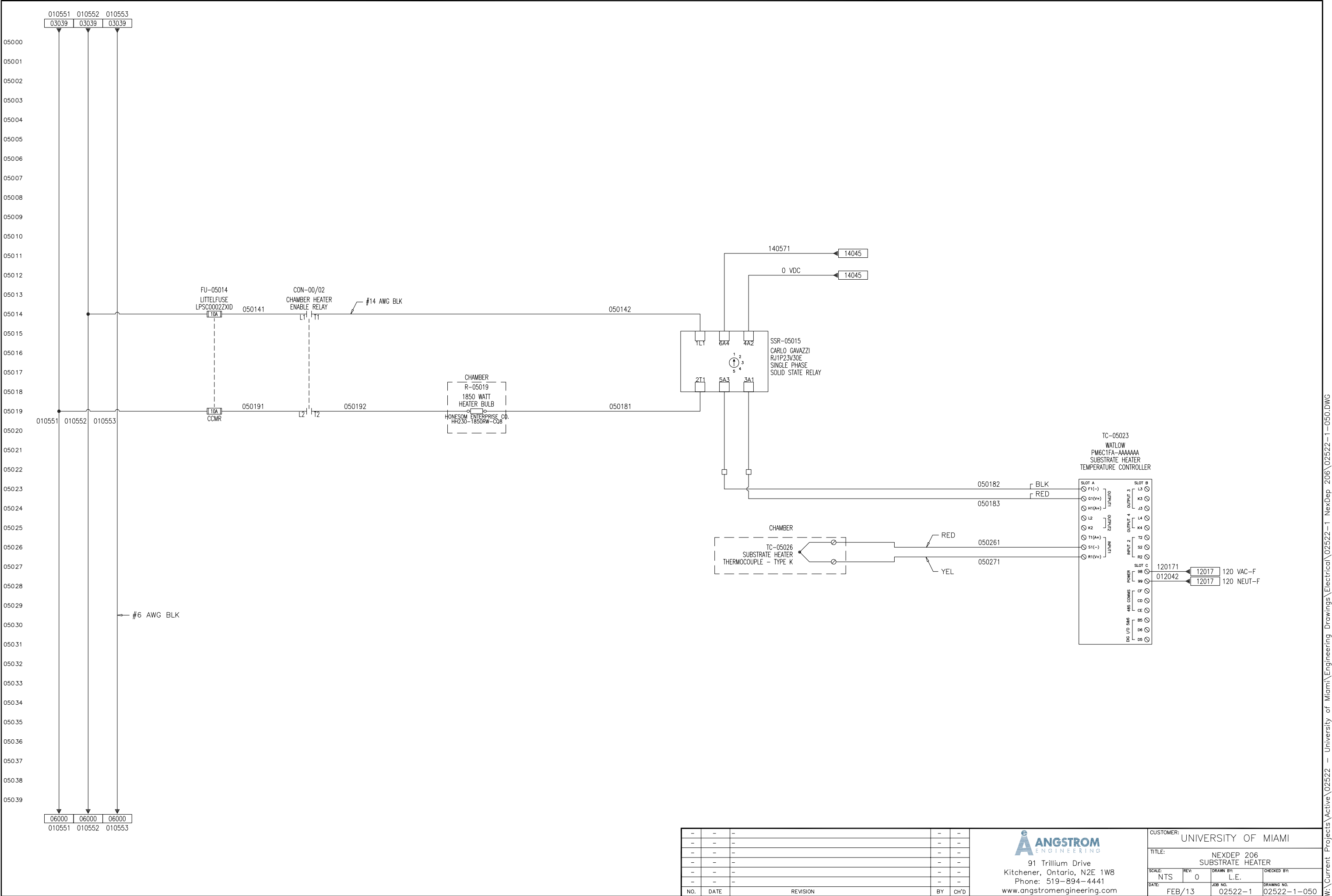


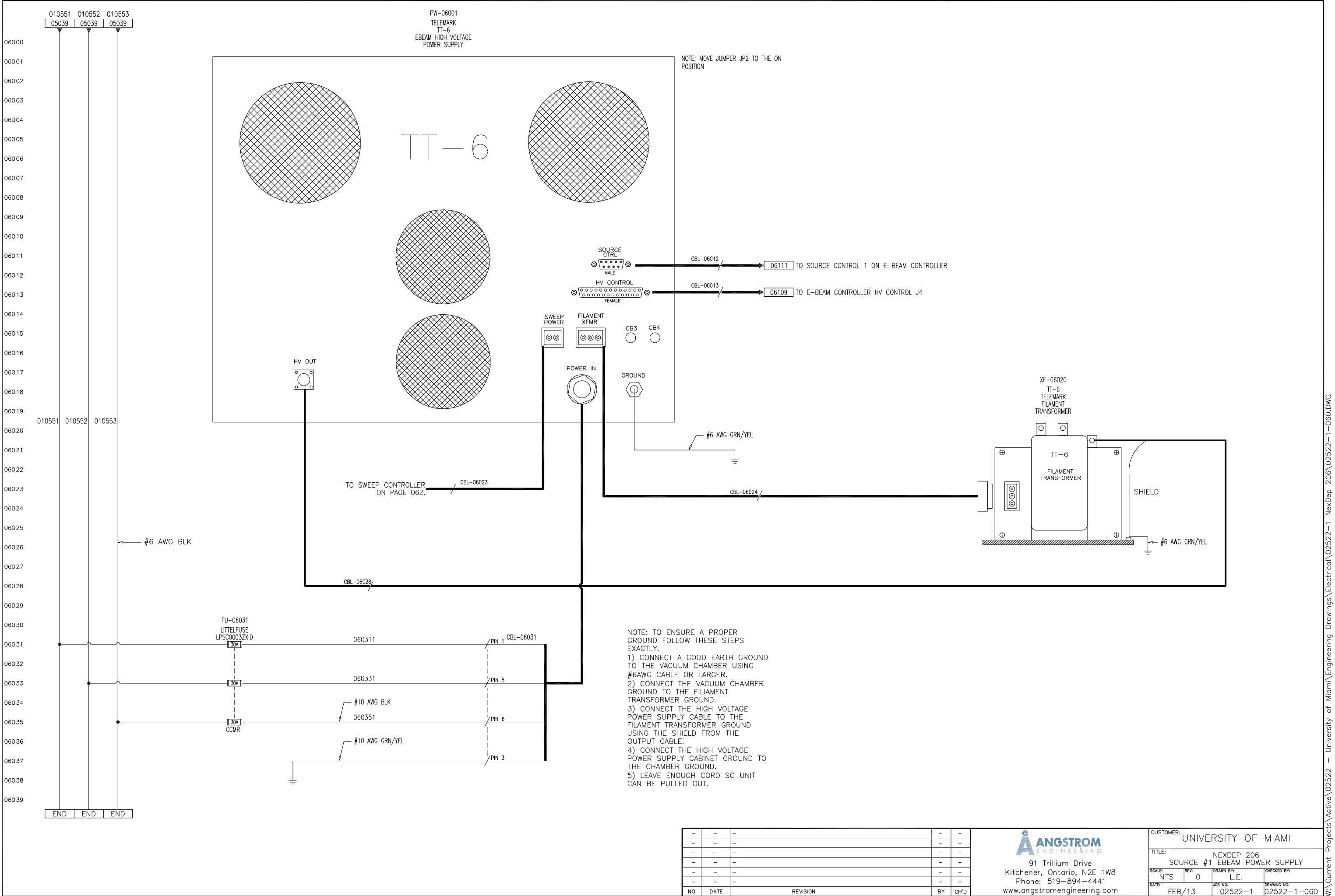
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NO.	DATE	REVISION	BY	CH'D

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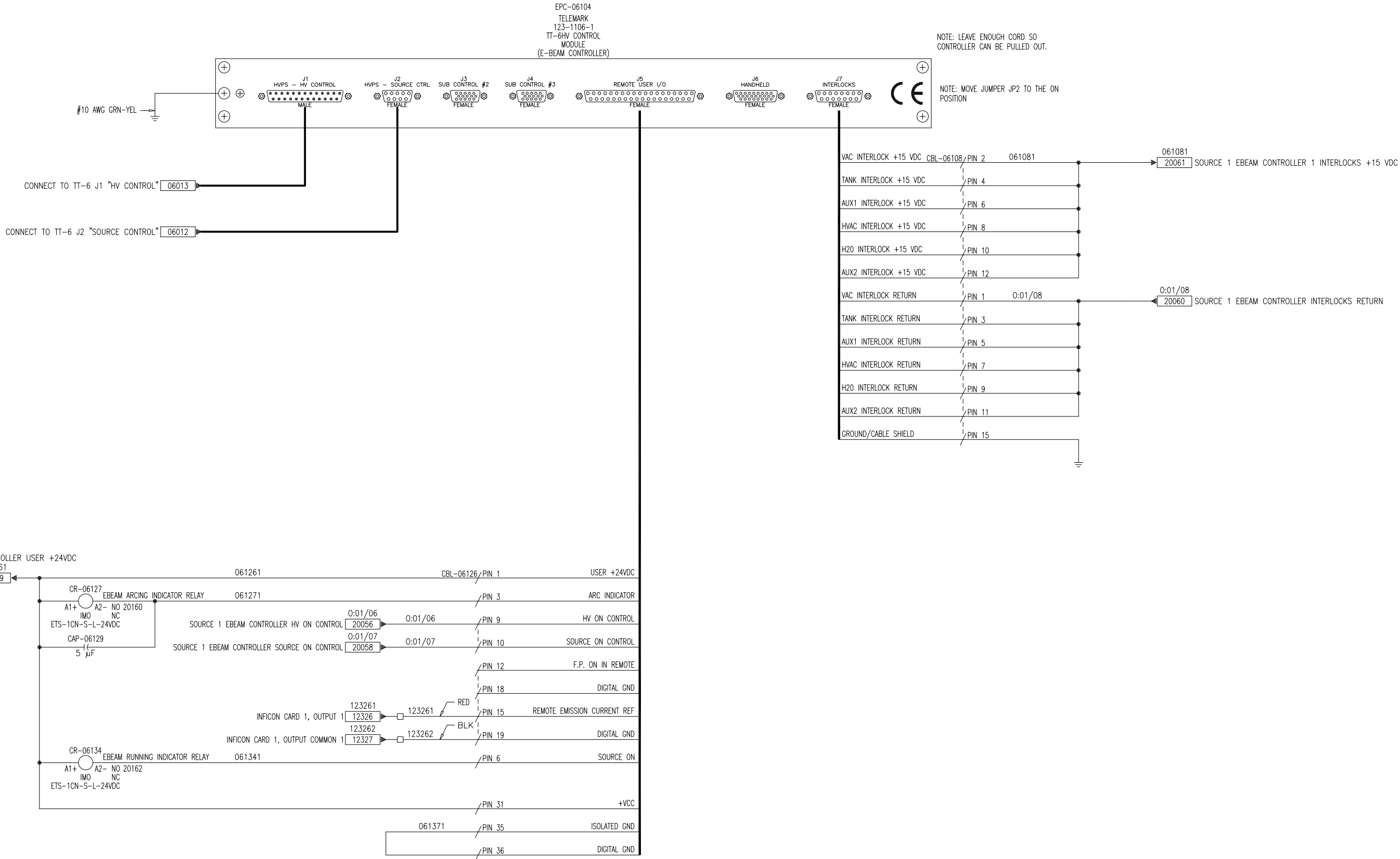
91 Trillium Drive
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CUSTOMER: UNIVERSITY OF MIAMI			
TITLE: NEXDEP 206 RESISTIVE SOURCES 2 & 3			
SCALE: NTS	REV: 0	DRAWN BY: L.E.	CHECKED BY:
DATE: FEB/13	JOB NO: 02522-1	DRAWING NO: 02522-1-030	





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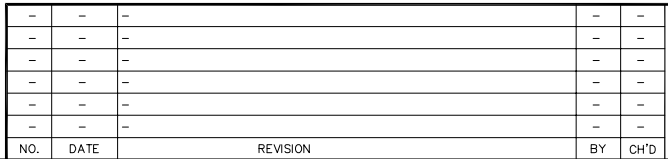


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1	13/10/30	CHANGE PIN 6 DESCRIPTION TO SOURCE ON FROM SOURCE READY	T.N.	L.E.C.S.
NO.	DATE	REVISION	BY	CH'D



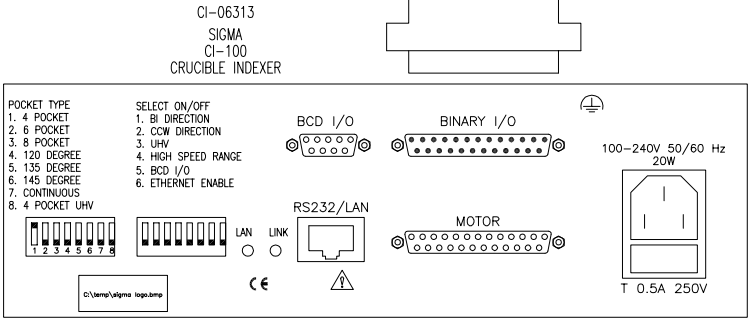
91 Trillium Drive
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CUSTOMER: UNIVERSITY OF MIAMI			
TITLE: NEXDEP 206 SOURCE #1 EBEAM POWER CONTROLLER			
SCALE: NTS	REV: 1	DRAWN BY: L.E.	CHECKED BY:
DATE: FEB/13	JOB NO: 02522-1	DRAWING NO: 02522-1-061	



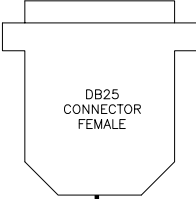
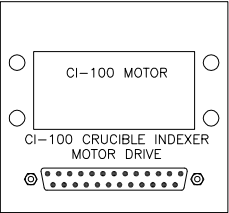
CUSTOMER: UNIVERSITY OF MIAMI			
TITLE: NEXDEP 206			
SOURCE #1		ANALOG SWEEP CONTROLLER	
SCALE:	REV:	DRAWN BY:	CHECKED BY:
NTS	0	L.E.	
DATE:	JOB NO.		DRAWING NO.
FEB/13	02522-1		02522-1-062

06300	SOURCE 1 CRUCIBLE INDEXER INPUT GROUND	063001 CBL-06300/PIN 1 GROUND	063001	063001	063001	063001
06301	SOURCE 1 CRUCIBLE INDEXER POCKET 1 SELECT	0:01/00	0:01/00	0:01/00	0:01/00	0:01/00
06302	SOURCE 1 CRUCIBLE INDEXER POCKET 2 SELECT	0:01/01	0:01/01	0:01/01	0:01/01	0:01/01
06303	SOURCE 1 CRUCIBLE INDEXER POCKET 3 SELECT	0:01/02	0:01/02	0:01/02	0:01/02	0:01/02
06304	SOURCE 1 CRUCIBLE INDEXER POCKET 4 SELECT	0:01/03	0:01/03	0:01/03	0:01/03	0:01/03
06305	SOURCE 1 CRUCIBLE INDEXER POCKET 5 SELECT	0:01/04	0:01/04	0:01/04	0:01/04	0:01/04
06306	SOURCE 1 CRUCIBLE INDEXER POCKET 6 SELECT	0:01/05	0:01/05	0:01/05	0:01/05	0:01/05
06307	SOURCE 1 CRUCIBLE INDEXER POCKET INDEX COMPLETE	I:03/06	I:03/06	I:03/06	I:03/06	I:03/06
06308	SOURCE 1 CRUCIBLE INDEXER NOT AT POCKET 1	I:03/00	I:03/00	I:03/00	I:03/00	I:03/00
06309	SOURCE 1 CRUCIBLE INDEXER NOT AT POCKET 2	I:03/01	I:03/01	I:03/01	I:03/01	I:03/01
06310	SOURCE 1 CRUCIBLE INDEXER NOT AT POCKET 3	I:03/02	I:03/02	I:03/02	I:03/02	I:03/02
06311	SOURCE 1 CRUCIBLE INDEXER NOT AT POCKET 4	I:03/03	I:03/03	I:03/03	I:03/03	I:03/03
06312	SOURCE 1 CRUCIBLE INDEXER NOT AT POCKET 5	I:03/04	I:03/04	I:03/04	I:03/04	I:03/04
06313	SOURCE 1 CRUCIBLE INDEXER NOT AT POCKET 6	I:03/05	I:03/05	I:03/05	I:03/05	I:03/05
06314	SOURCE 1 CRUCIBLE INDEXER PLC INPUT POWER	140141	140141	140141	140141	140141



NOTE: LEAVE ENOUGH CORD SO
CONTROLLER CAN BE PULLED OUT.

12007 CRUCIBLE INDEXER FROM POWER BAR

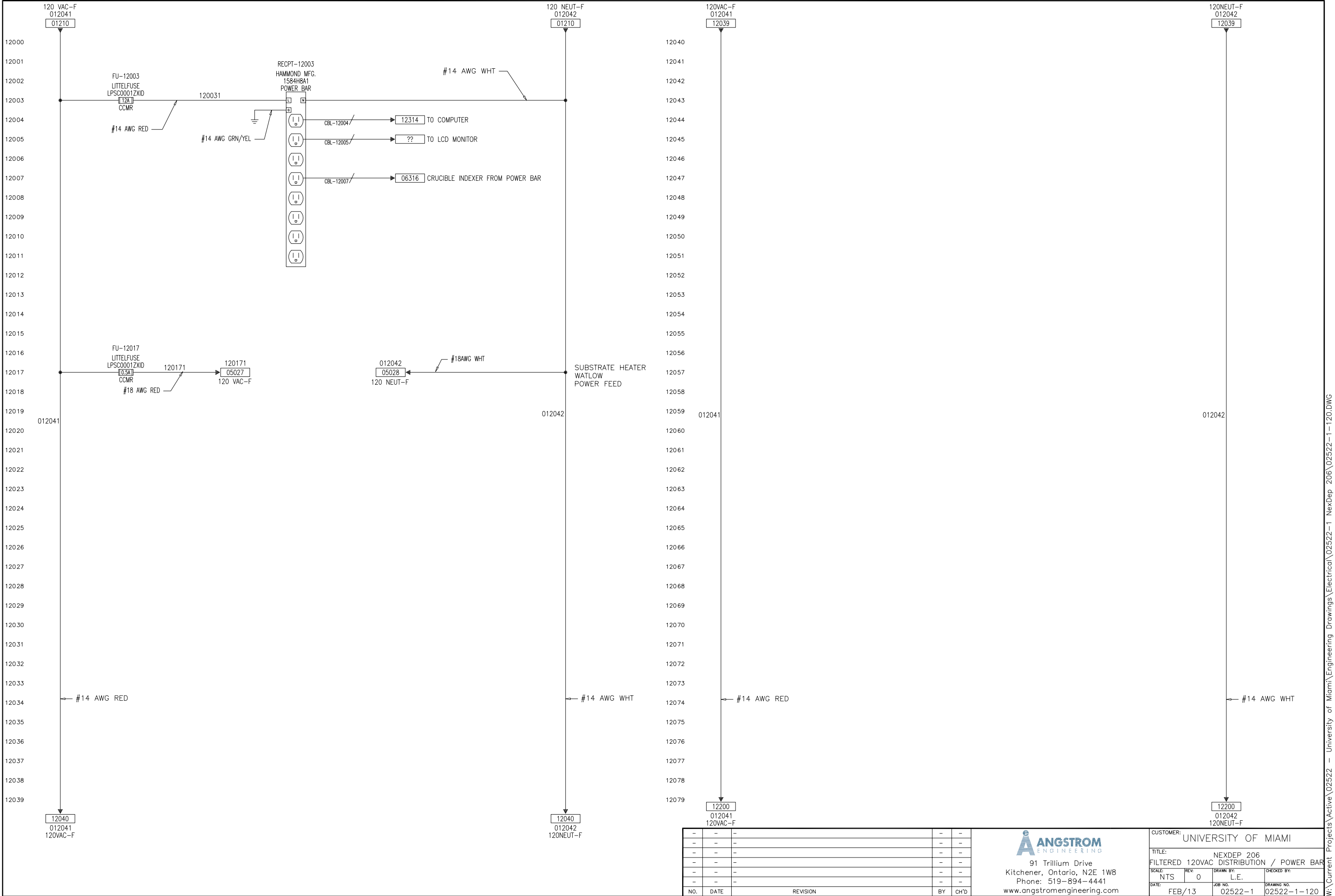


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NO.	DATE	REVISION	BY	CH'D

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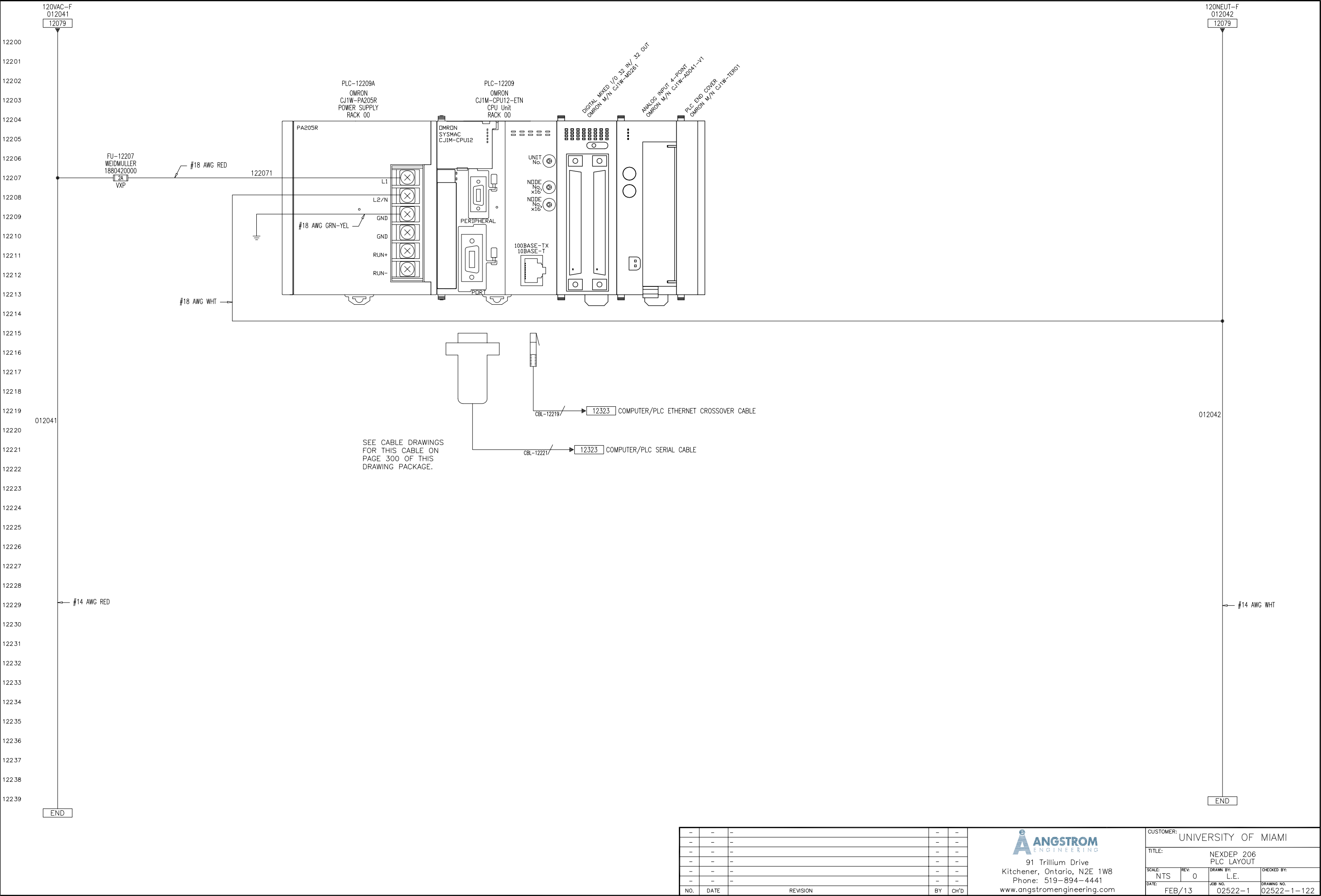
CUSTOMER: UNIVERSITY OF MIAMI			
TITLE: NEXDEP 206 CRUCIBLE INDEXER			
SCALE: NTS	REV: 0	DRAWN BY: L.E.	CHECKED BY:
DATE: FEB/13	JOB NO: 02522-1	DRAWING NO: 02522-1-063	



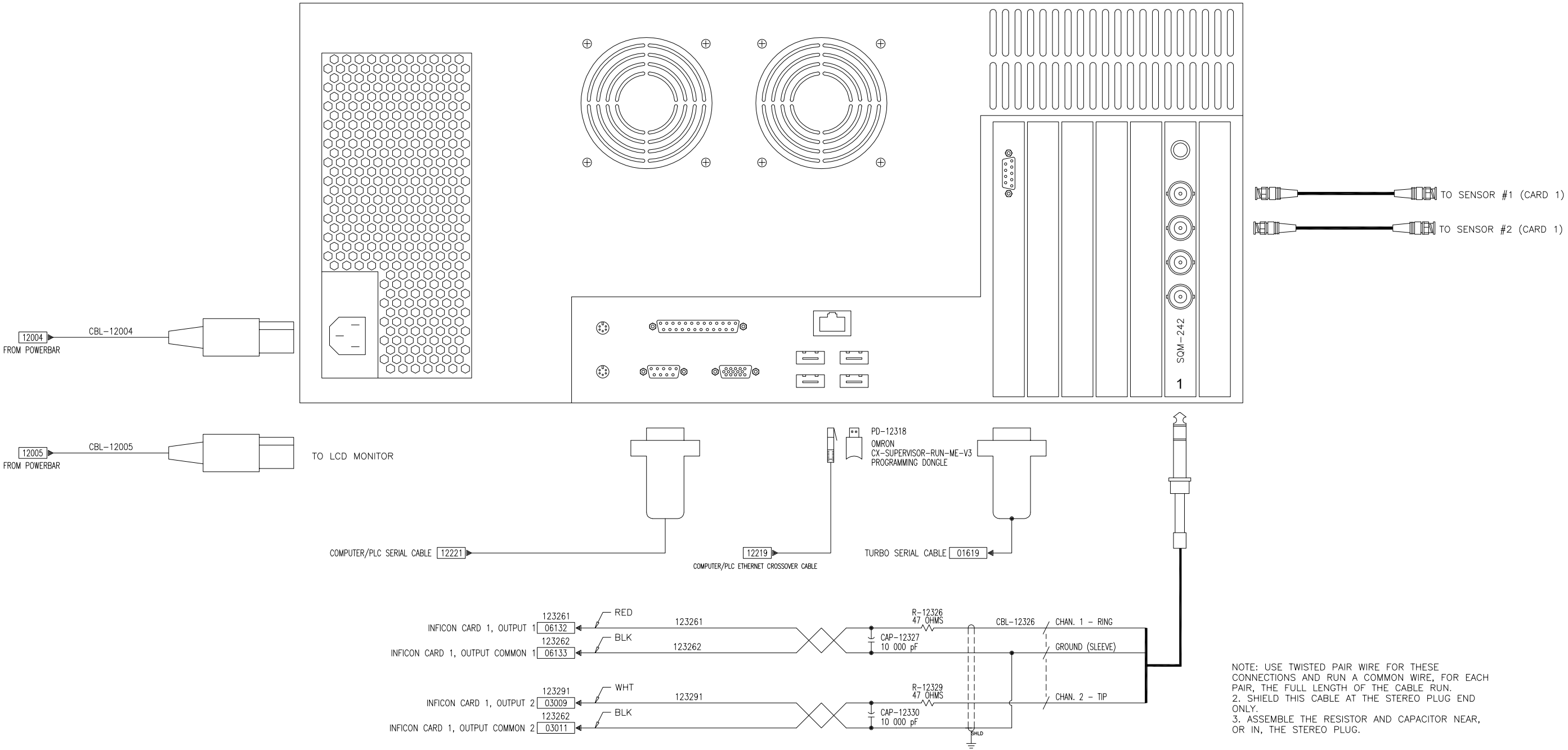
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NO.	DATE	REVISION	BY	CH'D

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CUSTOMER: UNIVERSITY OF MIAMI			
TITLE: NEXDEP 206 FILTERED 120VAC DISTRIBUTION / POWER BAR			
SCALE: NTS	REV: 0	DRAWN BY: L.E.	CHECKED BY:
DATE: FEB/13	JOB NO: 02522-1	DRAWING NO: 02522-1-120	



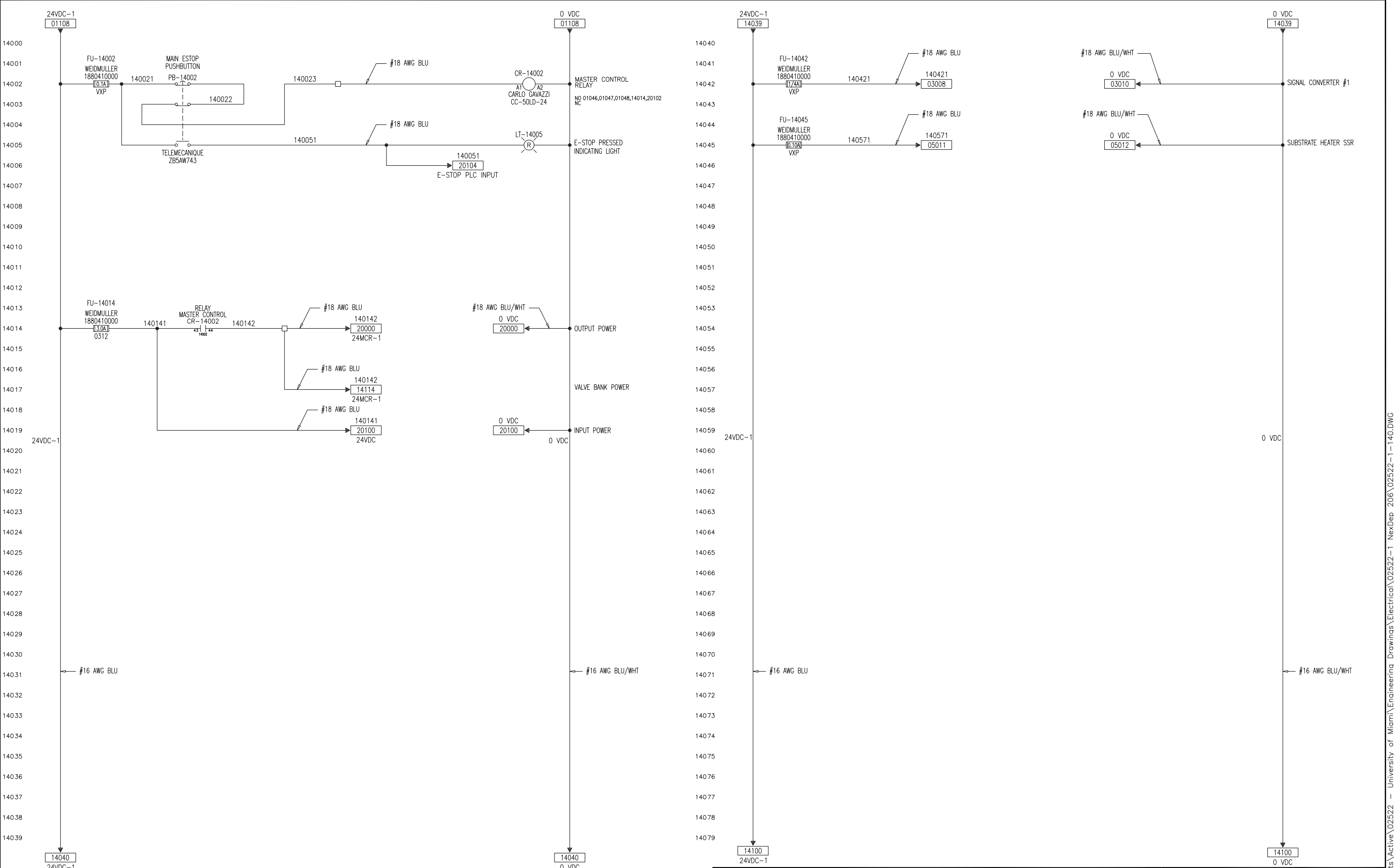
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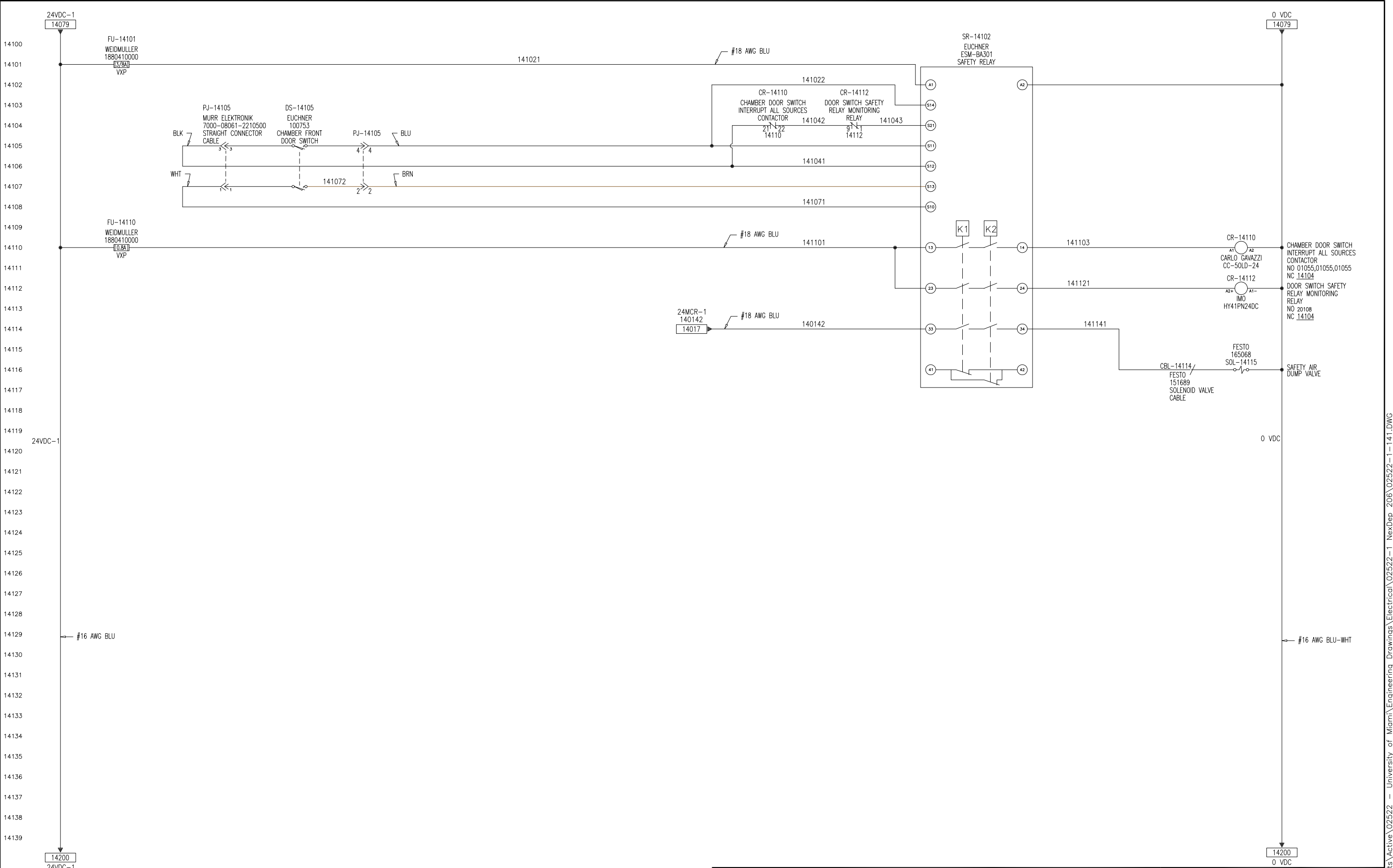
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NO.	DATE	REVISION	BY	CH'D

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CUSTOMER: UNIVERSITY OF MIAMI			
TITLE: NEXDEP 206 COMPUTER LAYOUT			
SCALE: NTS	REV: 0	DRAWN BY: L.E.	CHECKED BY:
DATE: FEB/13	JOB NO: 02522-1	DRAWING NO: 02522-1-123	



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-	-	-	-	-	-		TITLE: NEXDEP 206 E-STOP / 24VDC DISTRIBUTION			
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NO.	DATE	REVISION			BY	CH'D				



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NO.	DATE	REVISION	BY	CH'D

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CUSTOMER:

UNIVERSITY OF MIAMI

TITLE:

NEXDEP 206
SAFETY RELAY CIRCUITS

SCALE:

NTS

REV:

0

DRAWN BY:

L.E.

CHECKED BY:

DATE:

FEB/13

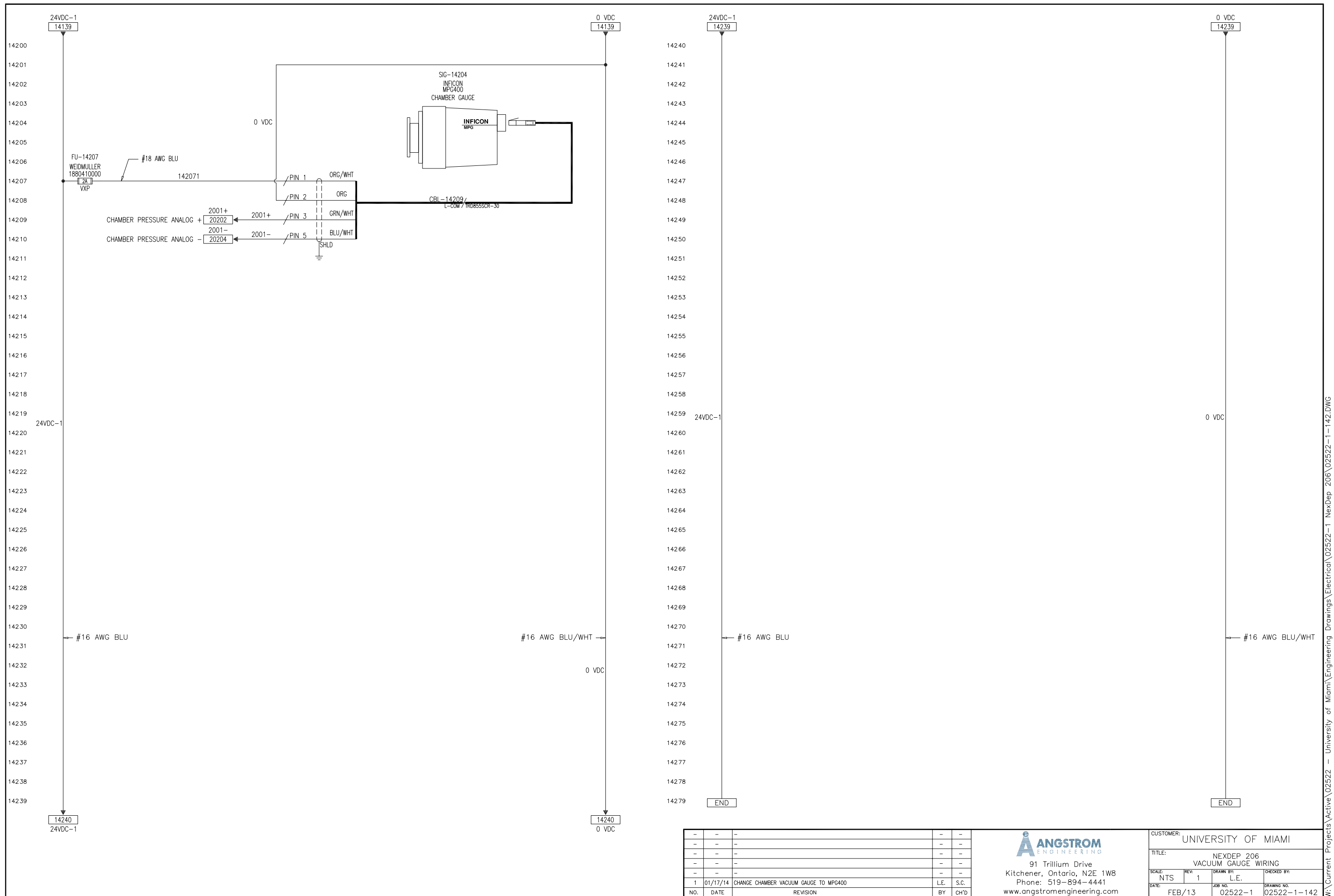
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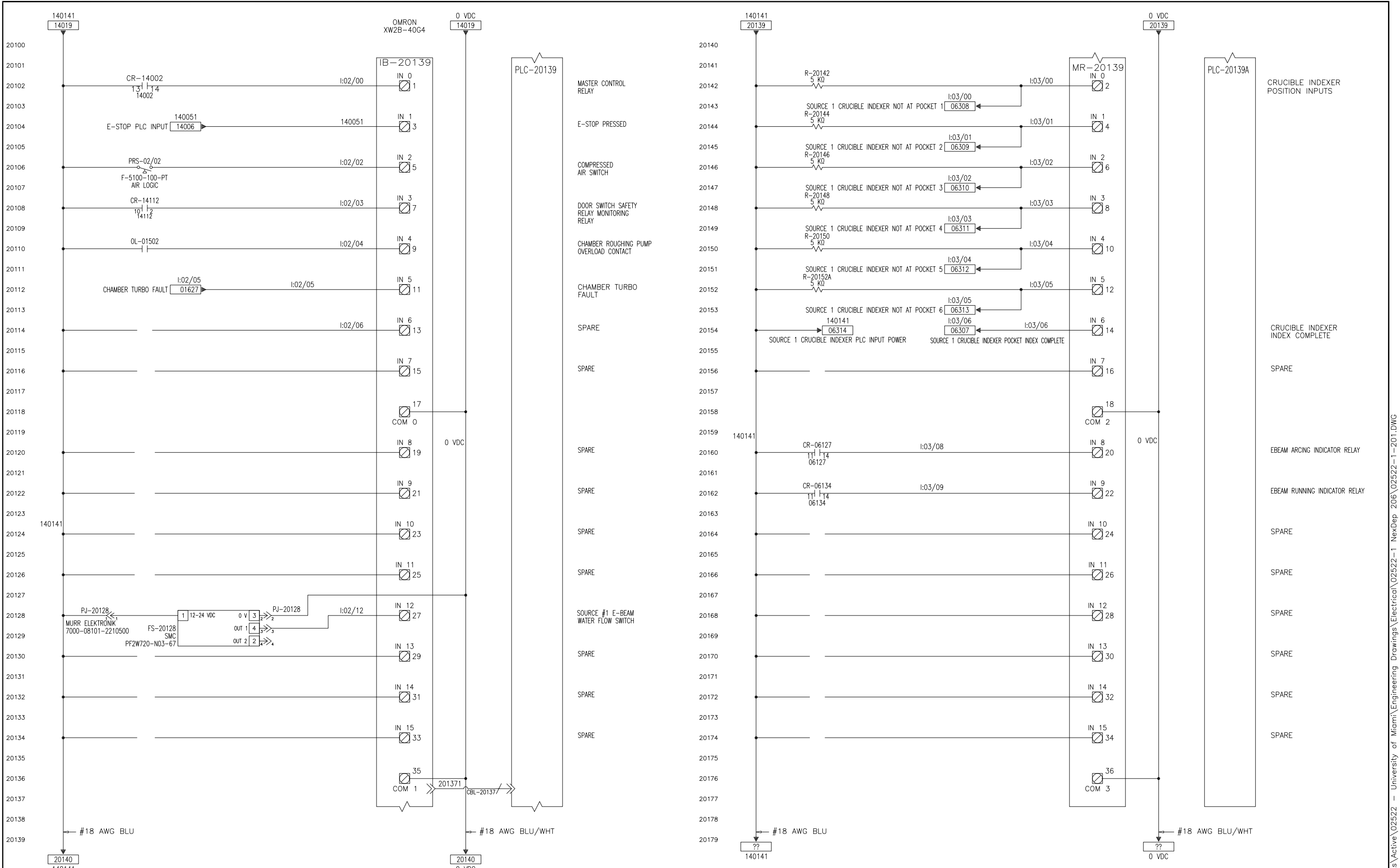
02522-1

DRAWING NO.

02522-1-141

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1	12/12/13	UPDATE TURBO FAULT INPUT TO NEW TURBO CONNECTION	L.E.	T.P.
NO.	DATE	REVISION	BY	CH'D



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CUSTOMER: UNIVERSITY OF MIAMI			
TITLE: NEXDEP 206 PLC MODULE 2,3 - DC INPUTS			
SCALE: NTS	REV: 1	DRAWN BY: L.E.	CHECKED BY:
DATE: FEB/13	JOB NO: 02522-1	DRAWING NO: 02522-1-201	

END CONNECTOR: 9 PIN D-SHELL (DB9), FEMALE CONNECT TO PC				END CONNECTOR: 9 PIN D-SHELL (DB9), MALE CONNECT TO PLC			
DESCRIPTION	PIN	COLOUR	WIRE#		PIN	COLOUR	WIRE#
	1		BLK		1		
	2		GRY		2	GRY	
	3		RED		3	RED	
	4		GRN		4		
	5		BRN		5		
	6		BLU		6		
	7		ORG		7		
	8		YEL		8		
	9		VIOLET		9	BRN	

30000	30001	30002	30003	30004	30005	30006	30007	30008	30009	30010	30011	30012	30013	30014	30015	30016	30017	30018	30019	30020	30021	30022	30023	30024	30025	30026	30027	30028	30029	30030	30031	30032	30033	30034	30035	30036	30037	30038	30039
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 91 Trillium Drive Kitchener, Ontario, N2E 1W8 Phone: 519-894-4441 www.angstromengineering.com		CUSTOMER: UNIVERSITY OF MIAMI	
TITLE: NEXDEP 206 CABLE CHART			
SCALE: 1/8" = 1'-0"	DRAWN BY: L.E.	CHECKED BY:	
DATE: FEB/13	DESIGN NO.: 02522-1	ISSUING NO.: 02522-1-300	
NO. _____	REVISION NO. _____	BY: CHD	