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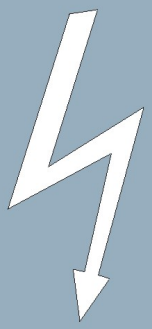
Schematic/Electrical Parts—30015D4A and 30015J4P



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for ME6DXAS1AE/2001145N
30015D4A and 30015J4P

COMPONENT PARTS LIST

W6DXASPL/99396N

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
BA	**>>PRINTED CIRCUIT BOARDS**				
BAD-1	BOARD-ANALOG TO DIGITAL CONV.BD	W6DXASBW	08BSADDBT	BRD:W/E+DYE SERIAL ATOD TEST	LOW VOLT BOX
BBB-1	BOARD-BATTERY BACKUP BOARD	W6DXASBW	08BSBBIT	BOARD:SER BATT BACKUP-TEST	PROCESSOR BX
BDA-1	BOARD-DIGITAL TO ANALOG CONV. BD	W6DXASBW	08BSDABT	BOARD:SERIAL D TO A TEST	LOW VOLT BOX
BEP-1	BOARD-VOLT. TO CURRENT CONV. BD	W6DXASBW	08BN420AT	4-20MA OUTPUT BOARD TESTED	LOW VOLT BOX
BFS-1	BOARD-FLOW SENSOR	W6DXASFS	08BNDFST	FLOW SENSOR ISG COND TESTED	LOW VOLT BOX
BIO-1	BOARD-8OUTPUT-16 INPUT BD 1	W6DXASBW	08BS816BT	BOARD:SERIAL 8 OUT 16 IN TEST	LOW VOLT BOX
BI0-2	BOARD-8OUTPUT-16 INPUT BD 2	W6DXASBW	08BS816BT	BOARD:SERIAL 8 OUT 16 IN TEST	DYE LOGIC BOX
BO16-1	BOARD-16 OUTPUT BOARD	W6DXASBW	08BS016BT	BOARD:SERIAL 16 OUTPUT	LOW VOLT BOX
BO16-2	BOARD-16 OUTPUT BOARD	W6DXASBW	08BS016BT	BOARD:SERIAL 16 OUTPUT	DYE LOGIC BOX
BO16-3	BOARD-16 OUTPUT BOARD	W6DXASBW	08BS016BT	BOARD:SERIAL 16 OUTPUT	DYE LOGIC BOX
BPB	BOARD-PROCESSOR BOARD	W6DXASBW	08BSPDT	8088 PROCESSOR TESTED	PROCESSOR BX
BPB	BOARD-PROCESSOR BOX	W6DXASPI	08BSPDT	8088 PROCESSOR TESTED	PROCESSOR BX
BTP-1	BOARD-TEMPERATURE PROBE BOARD	W6DXASBW	08BNTPT	BD-THERMISTOR 2 CHAN TESTED	LOW VOLT BOX
CD	**>>RELAY-TIME DELAY**				
CDFSW	DELAY-WATER IN SAMPLE TANK	W6DXASDS	09CF007537	TDR F7.5S 2PDT 11 PIN 120V60C	LOGIC BOX
CDSDR	DELAY-O.K. TO SAMPLE	W6DXASDS	09CF007537	TDR F7.5S 2PDT 11 PIN 120V60C	LOGIC BOX
CDTL	DELAY-LOW LEVEL 7.5 SEC.	W6DXASDS	09CF007537	TDR F7.5S 2PDT 11 PIN 120V60C	LOGIC BOX
CDVS	DELAY-VARIABLE SPEED FAULT	W6DXASVP	09CF007537	TDR F7.5S 2PDT 11PIN 120V60C	VARI SPEED BX
CDWAA	DELAY-WASH MOTOR CCW	W6DXASVP	09CF001037	TDR F1S 2PDT 11 PIN 120V60C	VARI SPEED BX
CDWAC	DELAY-WASH MOTOR CW	W6DXASVP	09CF001037	TDR F1S 2PDT 11 PIN 120V60C	VARI SPEED BX
CD1	DELAY-ENABLE WASH	W6DXASMC	09CF002037	TDR F2S 2PDT 11 PIN 120V60C	LOW VOLT BOX
CL	**>>RELAY-LATCH**				
CLDR	LATCH-DOOR OPEN	W6DXASS+	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	LOW VOLT BOX
CLSAD	LATCH-SAMPLE DESIRED	W6DXASDS	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	COOLDOWN SPL
CR	**>>RELAY-PILOT OR CONTROL**				
CRC+	RELAY-MANUAL CHEMICAL INJECT	W6DXASDT	09C01DDD37	RELAY-3PDT DIFGOLD 11 PIN 120VAC	LOGIC BOX
CRCL	RELAY-INJECT LEFT	W6DXASDT	09C01DDD37	RELAY-3PDT DIFGOLD 11 PIN 120VAC	LOGIC BOX
CRCMF	RELAY-DYE CHAM.MANIFOLF	W6DXASDR	09C01DDD37	RELAY-3PDT DIFGOLD 11 PIN 120VAC	LOGIC BOX
CRDR	RELAY-DRAIN CONTACTOR ENABLED	W6DXASMC	09C01DDD37	RELAY-3PDT DIFGOLD 11 PIN 120VAC	LOW VOLT BOX
CREXA	RELAY-AMPSAVER AMPS O.K.	W6DXASEA	09C024D24	RELAY-4PDT DIFGOLD 14 PIN 24VAC	LOW VOLT BOX
CRFD	RELAY-FILTER DOOR IS CLOSED	W6DXASDV	09C01DDD37	RELAY-3PDT DIFGOLD 11 PIN 120VAC	LOGIC BOX
CRFST	RELAY-SAMPLE TANK	W6DXASDS	09C01DDD37	RELAY-3PDT DIFGOLD 11 PIN 120VAC	LOGIC BOX

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
CRFSW	RELAY-SAMPLE DESIRED	W6DXASDS	09C01DDD37	RELAY-3PDT DIFGOLD 11 PIN 120VAC	LOGIC BOX
CRLDP	RELAY-LEVEL BELOW DOOR	W6DXASDS	09C01DDD37	RELAY-3PDT DIFGOLD 11 PIN 120VAC	LOGIC BOX
CRLDQ	RELAY-LEVEL BELOW DOOR	W6DXASDS	09C01DDD37	RELAY-3PDT DIFGOLD 11 PIN 120VAC	LOGIC BOX
CRM	RELAY-MOTOR ENABLED	W6DXASS+	09C01DDD37	RELAY-3PDT DIFGOLD 11 PIN 120VAC	LOW VOLT BOX
CRRT	RELAY-TEMP ERROR	W6DXASDV	09C01DDD37	RELAY-3PDT DIFGOLD 11 PIN 120VAC	LOGIC BOX
CRS+	RELAY-START 3-WIRE	W6DXASS+	09C01DDD37	RELAY-3PDT DIFGOLD 11 PIN 120VAC	LOW VOLT BOX
CRSAD	RELAY-SAMPLE DESIRED	W6DXASDS	09C01DDD37	RELAY-3PDT DIFGOLD 11 PIN 120VAC	LOGIC BOX
CRSAE	RELAY-SAMPLE DESIRED	W6DXASDS	09C01DDD37	RELAY-3PDT DIFGOLD 11 PIN 120VAC	LOGIC BOX
CRSP	RELAY-SPEED	W6DXASS+	09C01DDD37	RELAY-3PDT DIFGOLD 11 PIN 120VAC	LOW VOLT BOX
CRSPA	RELAY-SPEED	W6DXASS+	09C01DDD37	RELAY-3PDT DIFGOLD 11 PIN 120VAC	LOW VOLT BOX
CRSPAA	RELAY-SPEED	W6DXASS+	09C01DDD37	RELAY-3PDT DIFGOLD 11 PIN 120VAC	LOW VOLT BOX
CRSR	RELAY-SAMPLE RESET	W6DXASDS	09C01DDD37	RELAY-3PDT DIFGOLD 11 PIN 120VAC	LOGIC BOX
CRTH	RELAY-HIGH LEVEL	W6DXASDS	09C01DDD37	RELAY-3PDT DIFGOLD 11 PIN 120VAC	LOGIC BOX
CRVU	RELAY-CHEMICAL	W6DXASDT	09C01DDD37	RELAY-3PDT DIFGOLD 11 PIN 120VAC	LOGIC BOX
CS	**>>CONTACTOR-MOTOR STARTER**				
CSDR	CONTACTOR-DRAIN MOTOR	W6DXASMC	09MC04B337	12A 3P CONTACTOR NR 120V5/6 IEC	HIGH VOLT BX
CSE1A	CONTACTOR-EXTRACT MOTOR	W6DXASMC	09MC04B337	12A 3P CONTACTOR NR 120V5/6 IEC	HIGH VOLT BX
CSPR	CONTACTOR-RECIRCULATION PUMP	W6DXASEV	09MC04B337	12A 3P CONTACTOR NR 120V5/6 IEC	HIGH VOLT BX
CSVS	CONTACTOR-CONT. VARI. SPEED CONT.	W6DXASVP	09MC04G337	38A 3P CONTACTOR NR 120V5/6 IEC	HIGH VOLT BX
CSW	CONTACTOR-WASH MOTOR	W6DXASMC	09MC04B337	12A 3P CONTACTOR NR 120V5/6 IEC	HIGH VOLT BX
EB	**>>BUZZER OR AUDIBLE SIGNAL**				
EBSG	BUZZER-SIGNAL	W6DXASS+	09H015	BUZZER 115V W/6-32 CRT+6" LEADS	SWITCH PANEL
EC	**>>CLUTCH-ELECTRONIC**				
ECEX	CLUTCH-WASH CLUTCH 12VDC	W6DXASEC	54H160A	CLUTCH 12VDC #29-02=CWE+C46M	DRIVE MOTORS
ECWA	CLUTCH-WASH CLUTCH 12VDC	W6DXASEC	54H168A	CLUTCH 12VDC OGURA #MA-PM01H3	DRIVE MOTORS
ED	**>>DISPLAY-ELECTRONIC**				
EDM	DISPLAY MICROPROCESSOR	W6DXASDP	08BSEVFDIT	BD VFD DISPLAY BUF TESTED	SWITCH PANEL
EDPM	PRINTER-MICROPROCESSOR	W6DXASPI	08MPSEREPN	PRINTER-EPSON LX300	REMOTE MOUNT
EF	**>>FUSE OR FUSE HOLDER**				
EF37	FUSE-120V CONTROL CIRCUIT	W6DXASPS	09F006AMA	FUSE BK/ABC 6 AMP 250V BUSS	HIGH VOLT BX
EL	**>>LIGHT-PILOT OR INDICATOR**				
ELCAD	LIGHT-DRAIN TANK 10	W6DXASDU	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	DYE TK SWPNL
ELCBD	LIGHT-DRAIN TANK 11	W6DXASDU	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	DYE TK SWPNL

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
ELC6D	LIGHT-DRAIN TANK 6	W6DXASDT	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	DYE TK SWPNL
ELC7D	LIGHT-DRAIN TANK 7	W6DXASDT	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	DYE TK SWPNL
ELC8D	LIGHT-DRAIN TANK 8	W6DXASDT	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	DYE TK SWPNL
ELC9D	LIGHT-DRAIN TANK 9	W6DXASDU	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	DYE TK SWPNL
ELFDO	LIGHT-FILTER DOOR OPEN	W6DXASDV	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	FILTER SWPNL
ELSAO	LIGHT-O.K. TO SAMPLE	W6DXASDS	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	COOLDOWN SPL
ELSDR	LIGHT-SAMPLE DESIRED	W6DXASDS	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	COOLDOWN SPL
ELSG	LIGHT-SIGNAL	W6DXASS+	09J060A37	LAMP 1/2" AMB 125V IDI 1050QC3	SWITCH PANEL
EM	**>>ELECTROMAGNET AND SOLENOID**				
EMCF	FAN-INVERTER COOLING	W6DXASVP	13AF100A37	FAN 92CFM115V60 ETRI#141LS-2282-010	VARI SPD BOX
EMDL	SOLENOID-DOOR SOLENOID	W6DXASS+	09K062B37	SOLENOID (C-7) 120.60-110/50	DOOR LTCH BX
ES	**>>POWER SUPPLY-ELECTRONIC**				
ESPS	BOARD-POWER SUPPLY	W6DXASBW	08PSS2451T	POWER SUPPLY 120V42WATTS TESTED	LOW VOLT BOX
ET	**>>THERMAL OVERLOAD DEVICES**				
ETDB	OVERLOAD-DYNAMIC BRAKE	W6DXASVP	09F024A	OL RELAY 1P SZ1 SQD #9065-C01	VARI SPD BOX
ETWA	OVERLOAD-WASH OVERLOAD	W6DXASVP	09F025SA	OL RELAY 3P SZ1 SQD #9065-SE05	HIGH VOLT BX
EX	**>>TRANSFORMERS**				
EXCL	TRANSFORMER-CLUTCH TRANS.120TO16V	W6DXASEC	09U002EBR	XFMR 120/240VP EBR 12VDC 90WATT	HIGH VOLT BX
EX37-1	TRANSFORMER-208/240 VAC	W6DXASPS	09U249AA37	XFMR 200-240V PRI/120VSEC/250VA	HIGH VOLT BX
EX37-2	TRANSFORMER-380/480>120VAC	W6DXASPS	09U200AAB	XFMR 380-480V/240-120V-250VA	HIGH VOLT BX
EX37-3	TRANSFORMER-600->120VAC	W6DXASPS	09U251AB37	XFMR 600VPRI/120VSC-250VA-3%REG	HIGH VOLT BX
EX96A	TRANSFORMER-	W6DXASMT6	09US030A96	XFMR 1PH 3KVA 240/480X120/240	
KB	**>>KEYBOARD-ELECTRONIC**				
KBM	KEYPAD-MICROPROCESSOR	W6DXASKP	08ND5X6DR	KEYPAD:5X6MATRIX WASH-EXT	SWITCH PANEL
MR	**>>MOTORS**				
MTDR	MOTOR-DRAIN/E1	W6DXASMC	MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE	MACHINE REAR
SH	**>>SWITCH-HAND OPERATED**				
SHC+	SWITCH-MANUAL CHEMICAL INJEST	W6DXASDT	09N034	TOGSW 3PDT CENOFF 10A250V ULCSA	COOLDOWN SPL
SHC+	SWITCH-MANUAL CHEMICAL INJEST	W6DXASI2	09N034	TOGSW 3PDT CENOFF 10A250V ULCSA	COOLDOWN SPL
SHCAD	SWITCH-CHEMICAL 10 DRAIN	W6DXASDU	09N054	TOGSW DPDT ON MOM 10A250V ULCSA	DYE TK SWPNL
SHCAF	SWITCH-CHEMICAL 10 FLUSH	W6DXASDU	09N054	TOGSW DPDT ON MOM 10A250V ULCSA	DYE TK SWPNL
SHCBD	SWITCH-CHEMICAL 11 DRAIN	W6DXASDU	09N054	TOGSW DPDT ON MOM 10A250V ULCSA	DYE TK SWPNL
SHCBF	SWITCH-CHEMICAL 11 FLUST	W6DXASDU	09N054	TOGSW DPDT ON MOM 10A250V ULCSA	DYE TK SWPNL

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
SHCD	SWITCH-MANUAL COOLDOWN	W6DXASI2	09N050	TOGSW SPDT ON 0FF 10A250V ULCSA	COOLDOWN SPL
SHCMF	SWITCH-DYE CHEM MANIFOLD FLUSH	W6DXASDT	09N054	TOGSW DPDT ON MOM 10A250V ULCSA	FL TNK VLVBX
SHC6D	SWITCH-CHEMICAL 6 DRAIN	W6DXASDT	09N054	TOGSW DPDT ON MOM 10A250V ULCSA	DYE TK SWPNL
SHC6F	SWITCH-CHEMICAL 6 FLUSH	W6DXASDT	09N054	TOGSW DPDT ON MOM 10A250V ULCSA	DYE TK SWPNL
SHC7D	SWITCH-CHEMICAL 7 DRAIN	W6DXASDT	09N054	TOGSW DPDT ON MOM 10A250V ULCSA	DYE TK SWPNL
SHC7F	SWITCH-CHEMICAL 7 FLUSH	W6DXASDT	09N054	TOGSW DPDT ON MOM 10A250V ULCSA	DYE TK SWPNL
SHC8D	SWITCH-CHEMICAL 8 DRAIN	W6DXASDT	09N054	TOGSW DPDT ON MOM 10A250V ULCSA	DYE TK SWPNL
SHC8F	SWITCH-CHEMICAL 8 FLUSH	W6DXASDT	09N054	TOGSW DPDT ON MOM 10A250V ULCSA	DYE TK SWPNL
SHC9D	SWITCH-CHEMICAL 9 DRAIN	W6DXASDU	09N054	TOGSW DPDT ON MOM 10A250V ULCSA	DYE TK SWPNL
SHC9F	SWITCH-CHEMICAL 9 FLUSH	W6DXASDU	09N054	TOGSW DPDT ON MOM 10A250V ULCSA	DYE TK SWPNL
SHD+	SWITCH-MANUAL CHEMICAL INJEST	W6DXASEV	09N45	TOGSW DPDT NO OFF 10A250V ULCSA	DYE TK SWPNL
SHDC	SWITCH-DIRECT MANUAL COOLDOWN	W6DXASI2	09N050	TOGSW SPDT ON 0FF 10A250V ULCSA	COOLDOWN SPL
SHDO	SWITCH-DOOR OPEN	W6DXASS+	09R019	MICSW SPDT KEYPAD BZ-2RQ128T	SWITCH PANEL
SHEAK	SWITCH-EXTRACT CONTROL	W6DXASEA	09N033	TOGSW 3PDT NO OFF 10A250V VLCSA	SIDE OF MACH
SHMD	SWITCH-LOCAL/REMOTE	W6DXASI1	09N050	TOGSW SPDT ON 0FF 10A250V ULCSA	LOW VOLT BOX
SHS+	SWITCH-START	W6DXASS+	09R001	PBSW SPST NO-MOM 1/4A250VULCAS	SWITCH PANEL
SHSAR	SWITCH-SAMPLE RESET	W6DXASDS	09R001NC	PBSW SPST NC-MOM 1/4A250VULCAS	COOLDOWN SPL
SHSG	SWITCH-SIGNAL CANCEL	W6DXASI1	09R001	PBSW SPST NO-MOM 1/4A250VULCAS	SWITCH PANEL
SHSMA	SWITCH-MASTER	W6DXASS+	09N053	TOGSW DPDT CENOFF 10A250V ULCSA	SWITCH PANEL
SHSO	SWITCH-STOP	W6DXASS+	09R001NC	PBSW SPST NC-MOM 1/4A250VULCAS	SWITCH PANEL
SHSOE	SWITCH-EMERGENCY STOP	W6DXASS+	09N505	SW ASSY EMER STOP	SWITCH PANEL
SH1	SWITCH-FILL TANKS 10+11	W6DXASI2	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	DYE TK SWPNL
SK	**>>SWITCH-KEYLOCK**				
SKPR	SWITCH-RUN/PROGRAM	W6DXASI1	09N127C	KEYSW SPST 7A120VAC SCREW TERM	SWITCH PANEL
SL	**>>SWITCH-LEVEL OPERATED**				
SLLH	SWITCH-HIGH LEVEL IN TANK	W6DXASDS	09R014A	MINI-SW SPDT STAKON #V15G1C26K	LOW VOLT BOX
SLLL	SWITCH-LOW LEVEL IN TANK	W6DXASDS	09R014A	MINI-SW SPDT STAKON #V15G1C26K	LOW VOLT BOX
SLLL1	SWITCH-LOW LEVEL	W6DXASI1	09N069	PRESS SWITCH 4"WC EATION738-719	LOW VOLT BOX
SLL3	SWITCH-HIGH LEVEL	W6DXASI1	09R014A	MINI-SW SPDT STAKON #V15G1C26K	LEVEL TUBE
SM	**>>SWITCH-MACHANICAL OPERATED**				
SMFM1	SWITCH-FILTER DOOR	W6DXASDV	09RM01212G	CAPSW 12 FT 180 DEG ROLLER GOLD	FILTER SWPNL
SMFM2	SWITCH-FILTER DOOR	W6DXASDV	09RM01212G	CAPSW 12 FT 180 DEG ROLLER GOLD	FILTER SWPNL
SMPLL	SWITCH-DOOR (LATCH) SWITCH	W6DXASS+	09R012	MICSW SPDT PAINTED BZE6-RN 01	MTD ON MACH

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
SMPL1	SWITCH-UPPER DOOR LATCH SWITCH	W6DXASS+	09RM01312S	CAPSW 12 FT 90 DEG ROLLER SILVER	MTD ON MACH
SMPL2	SWITCH-LOWER DOOR LATCH SWITCH	W6DXASS+	09RM01312S	CAPSW 12 FT 90 DEG ROLLER SILVER	MTD ON MACH
SMSP	SWITCH-SPEED	W6DXASS+	03 01053A	MERCURY SWITCH ASSY=LO OHM	DRIVE MOTORS
SMVB	SWITCH-VIBRATION	W6DXASS+	09R020	SWITCH NC VIBR #WZ-2RW84429-P52	CTRL PNL LFT
SP	**>>SWITCH-PRESSURE OPERATED**				
SPLP1	SWITCH-LEVEL BELOW SAMPLE DOOR	W6DXASDS	09N071	PRESS SWITCH 10"WC EATON738-718	LOGIC DOWN
SPLP2	SWITCH-LEVEL BELOW SAMPLE DOOR	W6DXASDS	09N071	PRESS SWITCH 10"WC EATON738-718	LOGIC DOWN
ST	**>>SWITCH-TEMPERATURE OPERATED**				
STTTA	SWITCH-TEMP. SAFETY	W6DXASDV	30R0300PS	THEMOSWTH S/S FENWAL CLOSE@300F	HEAT EXCHNGS
STTTB	SWITCH-TEMP. SAFETY	W6DXASDV	30R0300PS	THEMOSWTH S/S FENWAL CLOSE@300F	HEAT EXCHNGS
VE	**>>VALVE-ELECTRIC OPERATED**				
VECAD	VALVE-DRAIN TANK 10	W6DXASDU	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VECAF	VALVE-FLUSH TANK 10	W6DXASDU	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VECBD	VALVE-DRAIN TANK 11	W6DXASDU	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VECBF	VALVE-FLUSH TANK 11	W6DXASDU	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VECCD	VALVE-DRAIN TANK 12	W6DXASDZ	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VECCF	VALVE-FLUSH TANK 12	W6DXASDZ	96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	DYE TANK BX
VECMF	VALVE-DYE CHEM. MANIFOLD DESIRED	W6DXASDT	96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	AIR VALVE BX
VEC6D	VALVE-DRAIN TANK 6	W6DXASDT	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEC6F	VALVE-FLUSH TANK 6	W6DXASDT	96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	AIR VALVE BX
VEC7D	VALVE-DRAIN TANK 7	W6DXASDT	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEC7F	VALVE-FLUSH TANK7	W6DXASDT	96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	AIR VALVE BX
VEC8D	VALVE-DRAIN TANK 8	W6DXASDT	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEC8F	VALVE-FLUSH TANK 8	W6DXASDT	96TDC2AA37	1/2" N/C 2WAY 120V50/60C VALVE	AIR VALVE BX
VEC9D	VALVE-DRAIN TANK 9	W6DXASDU	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEC9F	VALVE-FLUSH TANK 9	W6DXASDU	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEDRR	VALVE-DRAIN TO REUSE	W6DXASEV	96R302A37	1/8" AIR PILOT 2WANO 120V50 120/60	AIR VALVE BX
VEDRS	VALVE-DRAIN TO SEWER NORM OPEN	W6DXASEV	96R302A37	1/8" AIR PILOT 2WANO 120V50 120/60	AIR VALVE BX
VEDRT	VALVE-DRAIN TO SEWER NORM CLOSED	W6DXASEV	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEDT	VALVE-DRAIN TANK	W6DXASDS	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEFST	VALVE-DRAIN SAMPLE TK TO SEWER	W6DXASDS	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEFSW	VALVE-FLUSH WATER IN SAMPLE TANK	W6DXASDS	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEMSR	VALVE-STEAM/COOLDOWN RAMP	W6DXASBW	96S2001	MOTOR 160 DEG/60 SEC 24V50/60	STEAM INLET

COMPONENT PARTS LIST

COMPONENT NUMBER	FUNCTION OF THIS COMPONENT	WHERE TO FIND THIS COMPONENT	MILNOR P/N	DESCRIPTION	LOCATION
VEPR	VALVE-FLUSH RECIRCULATION PUMP	W6DXASEV	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEPRX	VALVE-DR STM SIDEHEAT EXCHGER	W6DXASEV	96R302A37	1/8" AIR PILOT 2WANO 120V50 120/60	AIR VALVE BX
VESFT	VALVE-START FLOW TO TANK	W6DXASDS	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VESP	VALVE-ENABLE SANDPIPER PUMP	W6DXASDT	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VESTM	VALVE-STEAM PILOT	W6DXASEV	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VESTV	VALVE-ENABLE E-P CONTROL	W6DXASEV	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VETCW	VALVE-COOLDOWN WATER	W6DXASEV	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEWVC	VALVE-COLD WATER	W6DXASEV	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEWVH	VALVE-HOT WATER	W6DXASEV	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
VEWVX	VALVE-EXTRA WATER	W6DXASEV	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	AIR VALVE BX
WFM	METER-WATER FLOW	W6DXASFS	30F515	FLOW SENSOR SIGNET P51530-PO	WATER INLET
ZF					
ZFEX	RECTIFIER-EXTRACT CLUTCH	W6DXASEC	09A020EBR	RECTIFIER (EBR) 15A/600PIV	HIGH VOLT BX
ZFWA	RECTIFIER-WASH CLUTCH	W6DXASEC	09A020EBR	RECTIFIER (EBR) 15A/600PIV	HIGH VOLT BX

PELLERIN MILNOR CORPORATION

LIMITED STANDARD WARRANTY

We warrant to the original purchaser that MILNOR machines including electronic hardware/software (hereafter referred to as “equipment”), will be free from defects in material and workmanship for a period of one year from the date of shipment from our factory with no operating hour limitation. This warranty is contingent upon the equipment being installed, operated and serviced as specified in the operating manual supplied with the equipment, and operated under normal conditions by competent operators.

Providing we receive written notification of a warranted defect within 30 days of its discovery, we will – at our option – repair or replace the defective part or parts, FOB our factory. We retain the right to require inspection of the parts claimed defective in our factory prior to repairing or replacing same. We will not be responsible, or in any way liable, for unauthorized repairs or service to our equipment, and this warranty shall be void if the equipment is repaired or altered in any way without MILNOR’s written consent.

Parts which require routine replacement due to normal wear – such as gaskets, contact points, brake and clutch linings and similar parts – are not covered by this warranty, nor are parts damaged by exposure to weather or to chemicals.

We reserve the right to make changes in the design and/or construction of our equipment (including purchased components) without obligation to change any equipment previously supplied.

ANY SALE OR FURNISHING OF ANY EQUIPMENT BY MILNOR IS MADE ONLY UPON THE EXPRESS UNDERSTANDING THAT MILNOR MAKES NO EXPRESSED OR IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE OR PURPOSE. MILNOR WILL NOT BE RESPONSIBLE FOR ANY COSTS OR DAMAGES ACTUALLY INCURRED OR REQUIRED AS A RESULT OF: THE FAILURE OF ANY OTHER PERSON OR ENTITY TO PERFORM ITS RESPONSIBILITIES, FIRE OR OTHER HAZARD, ACCIDENT, IMPROPER STORAGE, MISUSE, NEGLECT, POWER OR ENVIRONMENTAL CONTROL MALFUNCTIONS, DAMAGE FROM LIQUIDS, OR ANY OTHER CAUSE BEYOND THE NORMAL RANGE OF USE. REGARDLESS OF HOW CAUSED, IN NO EVENT SHALL MILNOR BE LIABLE FOR SPECIAL, INDIRECT, PUNITIVE, LIQUIDATED, OR CONSEQUENTIAL COSTS OR DAMAGES, OR ANY COSTS OR DAMAGES WHATSOEVER WHICH EXCEED THE PRICE PAID TO MILNOR FOR THE EQUIPMENT IT SELLS OR FURNISHES.

WE NEITHER ASSUME, NOR AUTHORIZE ANY EMPLOYEE OR OTHER PERSON TO ASSUME FOR US, ANY OTHER RESPONSIBILITY AND/OR LIABILITY IN CONNECTION WITH THE SALE OR FURNISHING OF OUR EQUIPMENT TO ANY BUYER.

BMP720097
92732A

How to order repair parts

Repair parts may be ordered either from the authorized dealer who sold you this machine, or directly from the MILNOR factory. In most cases, your dealer will have these parts in stock.

When ordering parts, please be sure to give us the following information:

1. Model and serial number of the machine for which the parts are required
2. Part number
3. Name of the part
4. Quantity needed
5. Method of shipment desired
6. In correspondence regarding motors or electrical controls, please include all nameplate data, including wiring diagram number and the make or manufacturer of the motor or controls.

All parts will be shipped C.O.D. transportation charges collect only.

Please read this manual

It is strongly recommended that you read the installation and operating manual before attempting to install or operate your machine. We suggest that this manual be kept in your business office so that it will not become lost.

PELLERIN MILNOR CORPORATION
P.O. BOX 400, KENNER, LA., 70063-0400, U.S.A.
FAX: Administration 504/468-9307, Engineering 504/469-1849, Service 504/469-9777

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HOW TO USE MILNOR® ELECTRICAL SCHEMATICS

Milnor® electrical schematic manuals contain a ***table of contents/component list*, a set of s*chematic drawings, and a signal routing table.*** These documents are cross referenced and must be used together.

The ***table of contents/components list shows,*** for every component on every schematic in the manual, the *component item number*(explained in detail below), statement of function, parent schematic number, part number, description and electric box location.

The ***schematic drawings*** use symbols for each electro-mechanical component, and indicate the function of each. Integrated circuits are not shown, but the function of each microprocessor input and output is stated. Certain electrical components not pertinent to circuit logic, such as wire connectors, are not represented on the schematic but are shown in the signal routing table. **Most machines (manuals) require several schematics to describe the complete control system *including all available options.* However, this means that there are usually some schematics that do not apply to a specific machine.** Each schematic is devoted to circuits with common functions (e.g., microprocessor inputs, motor contactors). Schematics appear in the manual in alphanumeric order.

The ***signal routing table*** assists in determining wire routing. It identifies each group of conductors in a control system connected with zero resistance. Groups are identified by a two or three character wire number. Each wire belonging to such a group of conductors has that group's wire number printed along the wire insulation. Although there are some exceptions, generally each group of conductors within the entire electrical system for a machine family has its own unique wire number. The signal routing table for the manual lists each wire alphanumerically by wire number and each component/pin number to which *the wire is attached,* including those not shown on the schematics (e.g., wire connectors). Milnor® document MSTS0202BE HOW TO USE THE SIGNAL ROUTING TABLE provides more information.

Component Prefix Classifications and Descriptions

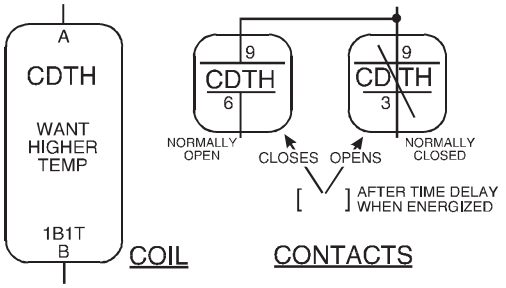
The ***component item numbers*** consist of up to six characters and appear as part of a component's symbol on the schematic. The first two characters indicate the general class of component and the remaining characters are a mnemonic for the function. For example, CD is the code for all time delay relays and SR stands for safety reset. Thus, CDSR is a time delay relay that serves as a safety reset.

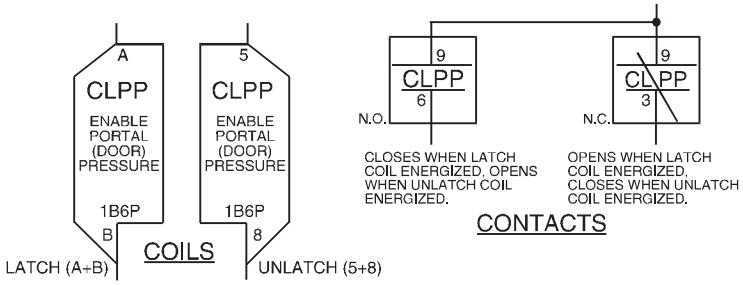
The following are descriptions of the electrical components used in Milnor® machines. Descriptions are in alphabetical order of the component class code (two character prefix).

BA=Printed Circuit Board Insulating substrate on which a thin pattern of copper conductors has been formed to connect discreet electronic components also mounted on the board.

CB=Circuit Breaker Automatic switch that opens an electric circuit in abnormal current conditions (e.g., an overload).

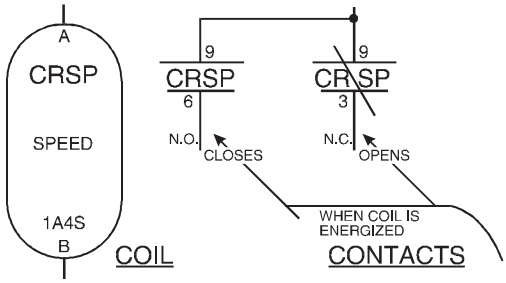
CD=Control, Time Delay Relay A relay whose contacts switch only after a fixed or adjustable delay, once voltage has been applied to its coil. The contacts switch back to normal (de-energized state) immediately when the voltage is removed.

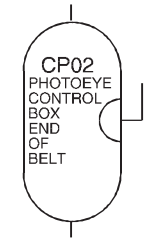




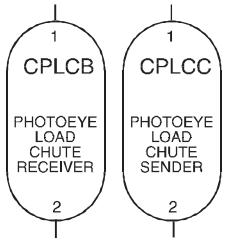
CL=Control, Latch Relay A relay which latches in an energized or set position when operated by one coil (the *latch/set coil*). The relay stays latched, even though coil voltage is removed. The relay releases or unlatches when voltage is applied to a second coil, (the *unlatch/reset coil*).

CR=Control, Relay A relay whose contacts switch immediately when voltage is applied to its coil and revert to normal when the voltage is removed.





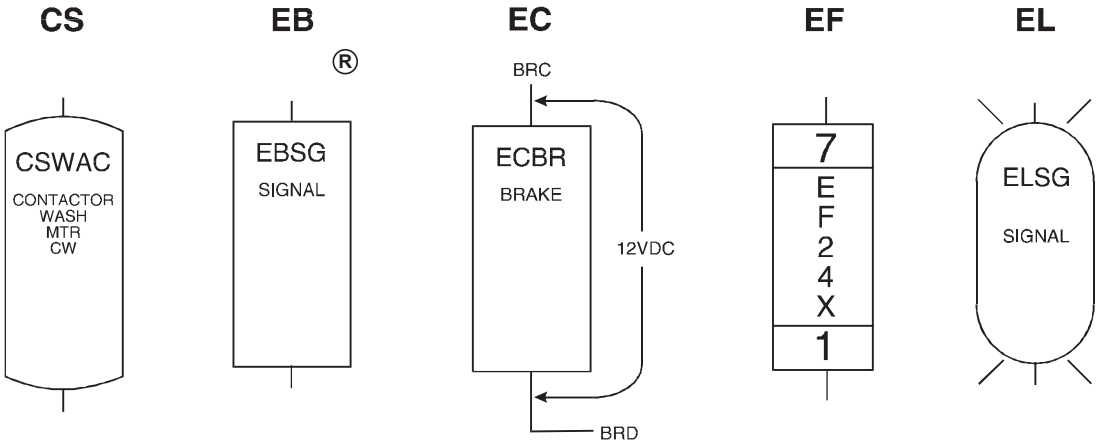
Example of One Assembly



Example of Two Separate Assemblies

CP=Control, Photo-Eyes Photo-eyes sense the presence of an object without direct physical contact. Photo-eyes consist of a *transmitter, receiver, and output module.* These components may be housed in one assembly with the transmitter bouncing light off of a reflector to the receiver, or these components can be housed in *two separate assemblies* with the transmitter pointed directly at the receiver.

The photo-eye can be set to turn on its output either when the light beam becomes blocked (dark operate) or when it becomes unblocked (light operate).



CS=Control, Contactor/Motor Starter A relay capable of handling heavier electrical loads, usually a motor.

EB=Electric Buzzer An audible signaling device.

EC=Electric Clutch A clutch consists of a coil and a rotor. The rotor has two separate rotating plates. These plates are free to rotate independent of each other until the coil is energized. Once energized the two plates turn as one.

ED=Electronic Display A visual presentation of data, such as an LCD (liquid crystal display), LED (light emitting diode) display, or VFD (vacuum florescent display).

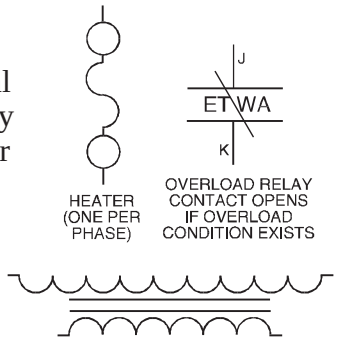
EF=Electric Fuse A fuse is an over-current safety device with a circuit opening fusible member which is heated and severed by the passage of over-current through it.

EL=Electric Light Indicator lights may be either incandescent or fluorescent.

EM=Electro Magnet Solenoid A device consisting of a core surrounded by a wire coil through which an electric current is passed. While current is flowing, iron is attracted to the core (e.g., a pinch tube drain valve solenoid).

ES=Electronic Power Supply A device that converts AC (altemating current) to filtered and regulated DC (direct current). The input voltage to the power supply is usually 120 or 240 VAC . The output is +5, +12, and -12 VDC.

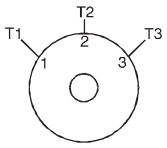
ET=Thermal Overload A safety device designed to protect a motor. A thermal overload consists of an overload block, heaters, and an auxiliary contact. The auxiliary contact is normally installed in a safety (three-wire) circuit that stops power to the motor contactor coil when a motor overload occurs.



EX=Electrical Transformer A device that transfers electrical energy from one isolated circuit to another, often raising or lowering the voltage in the process.

KB=Keyboard Device similar to a typewriter for making entries to a computer.

MN=Electronic Monitor (CRT) A cathode ray tube used for visual presentation of data.



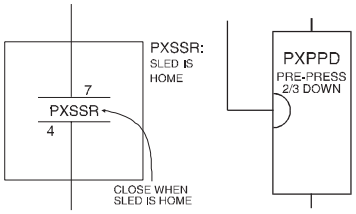
MR=Motors Electro-mechanical device that converts electrical energy into mechanical energy.

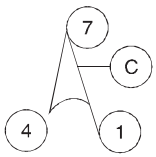
MV=Motor (Variable Speed) Inverter To vary the speed of an AC motor, the volts to frequency ratio must be kept constant. The motor will overheat if this ratio is not maintained.

The motor variable speed inverter converts three phase AC to DC. The inverter then uses this DC voltage to generate AC at the proper voltage and frequency for the commanded speed.

NOTE: Switch symbols used in the schematics and described below always depict the switch in its unactuated state.

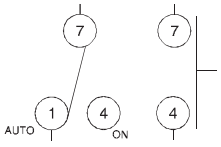
PX=Proximity Switch A device which reacts to the proximity of an target without physical contact or connection. The actuator or target causes a change in the inductance of the proximity switch which causes the switch to operate. Proximity switches can be two-wire (AC) or three-wire (DC) devices.

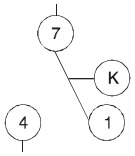




SC=Switch, Cam Operated A switch in which the electrical contacts are opened and/or closed by the mechanical action of a cam(s). Applications include 35-50 pound timer operated machines, autospot, timer reversing motor assembly, and some balancing systems.

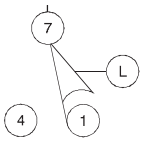
SH=Switch, Hand Operated A switch that is manually operated (e.g., *Start button, Master switch,* etc.).



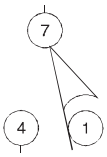


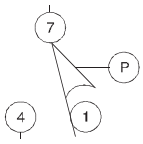
SK=Switch, Key Lock A switch that requires a key to operate . This prevents unauthorized personnel from gaining access to certain functions (e.g., the *Program Menu*).

SL=Switch, Level Operated A switch connected to a float that causes the switch to open and close as the level changes.



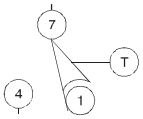
SM=Switch, Mechanically Operated A switch that is mechanically operated by a part of or the motion of the machine (e.g., door closed switch, tilt limit switches, etc.)





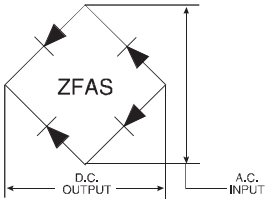
SP=Switch, Pressure Operated A switch consisting of a diaphragm that pushes against a switch actuator.

ST=Switch, Temperature Operated A switch that is actuated at a preset temperature (e.g., dryer safety probes) or has adjustable set points (e.g., Motometers or Combistats).



TB=Terminal Board A strip or block for attaching or terminating wires.

VE=Valve, Electric Operated A valve operated by an electric coil to control the flow of fluid. The fluid can be air, water or hydraulics.

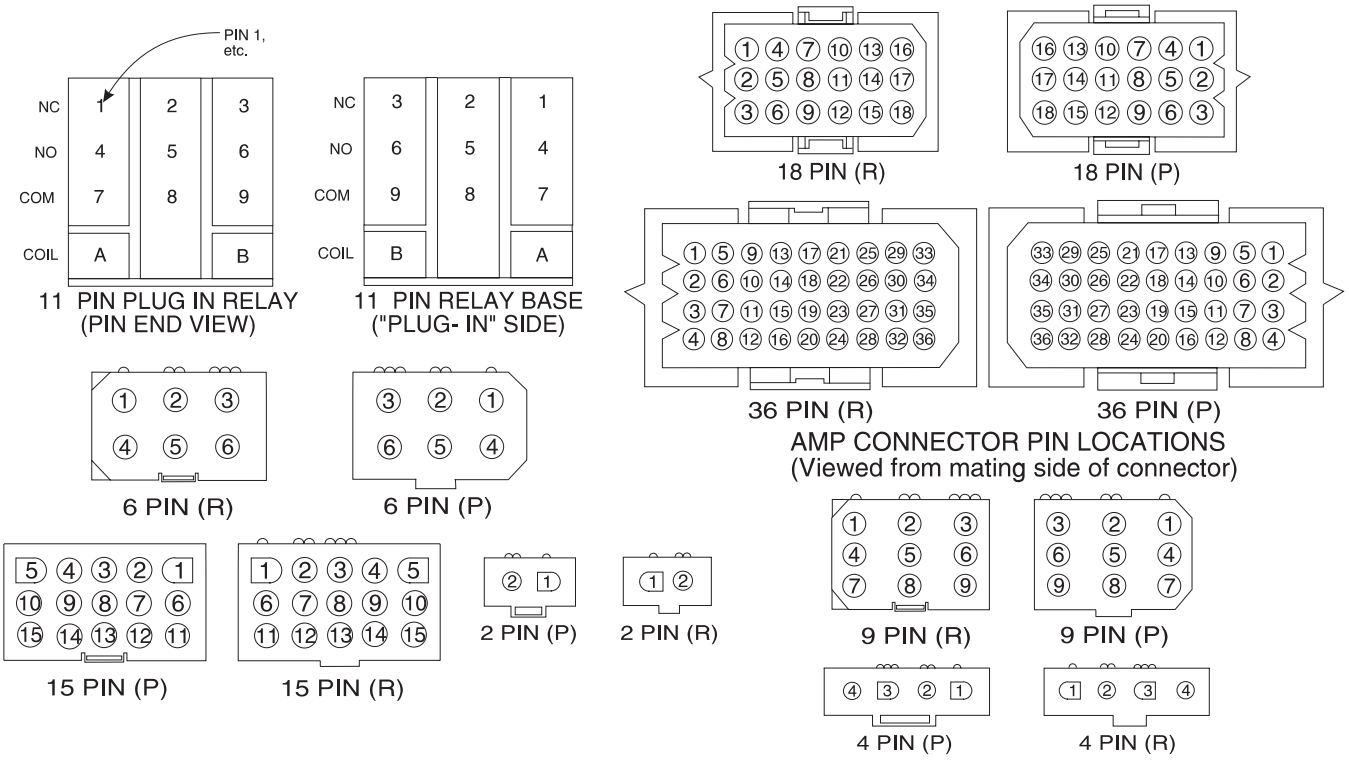


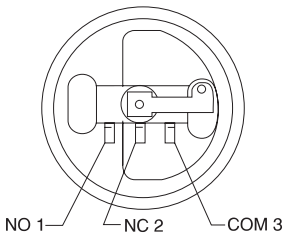
ZF=Rectifier A solid state device that converts alternating current to direct current.

WC=Wiring Connector A coupling device for joining two cables or connecting a cable to an electronic circuit or piece of equipment. Connectors are male or female, according to whether they plug into or receive the mating connector.

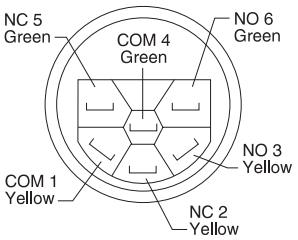
Component Terminal Numbering

NOTE: Numbers shown usually appear on the component.

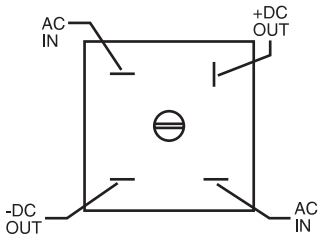




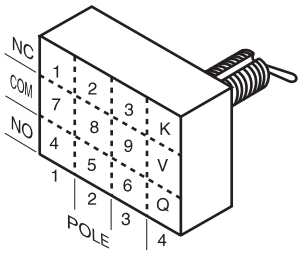
PRESSURE SWITCH



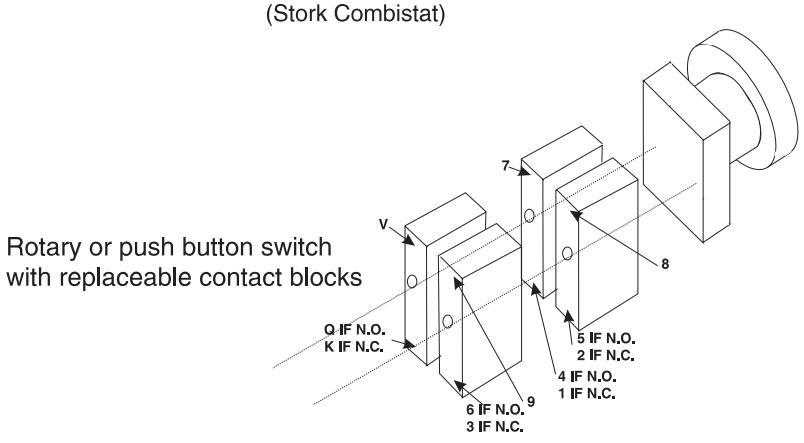
TEMPERATURE CONTROLLER
(Stork Combistat)



BRIDGE RECTIFIER



TOGGLE SWITCH



Features of Milnor® Electrical Schematics

Document W6DRYGS+A shown on the next page, is part of an actual schematic for the Milnor Gas Dryer. For the purposes of this instruction, the schematic is shown gray and explanations of the items on the schematic are shown black.

The item numbers below correspond to the circled item numbers shown on the drawing.

① The first six characters of the *drawing number (W6DRYG)* indicate that this is a *wiring diagram (W)*, identify the *generation of controls (6)*, and identify the *type of machine (DRYG*=Gas Dryer). These characters appear in the drawing number of every schematic in the set.

The characters following the first six are unique to each drawing. The two characters identified as the *page number* are an abbreviation for the function performed by the depicted circuitry (S+=three-wire circuit) and establish the order in which the schematic occurs in the manual (schematics are arranged in alpha-numeric order in the manual).

Whenever circuitry changes are significant enough to warrant publishing a new schematic drawing, the new drawing number will be the same as the old except for the major revision letter (*A* in the example).

② Included in the drawing title are the class of control system, the title of this circuit, and the circuit voltage.

③ Line numbers are provided along the bottom edge of the drawing. These permit service personnel in the field and at the Milnor factory to quickly relate circuit locations when discussing troubleshooting over the phone. Page and line numbers are referenced on the drawing as explained in items five and six below.

④ General functions of the circuit or portions thereof are stated across the top edge of the drawing.

⑤ Relay contacts show the page and line number on which the relay coil may be found. This is the type of cross referencing most frequently used in troubleshooting.

⑥ Relay coils show the page and line number on which its associated contacts are located.

⑦ Relay contacts and relay coils show the physical location of the relay.

⑧ The designation *MTA* applies to electronic circuit board connections. Typically, a control system will contain several different types of circuit boards and one or more boards of each type. A numerical suffix identifies the board type and a numerical prefix identifies which one of several boards of a given type is being depicted. For example, the designation *1MTA5* identifies this as the first I/O board (8 output, 16 input board) in the control system. As shown on the drawing, a pin number follows the board number, separated by a dash. Thus, *1MTA5-9* is pin 9 on this board. The numerical designations for board types vary from one control system to another. Some of the board types commonly encountered on the Mark II washer-extractor control and their designations are as follows:

MTA1-MTA6 = 8 output, 16 input (8/16) boards.

MTA11-MTA16 = 16 output boards

MTA30-MTA40 = processor boards

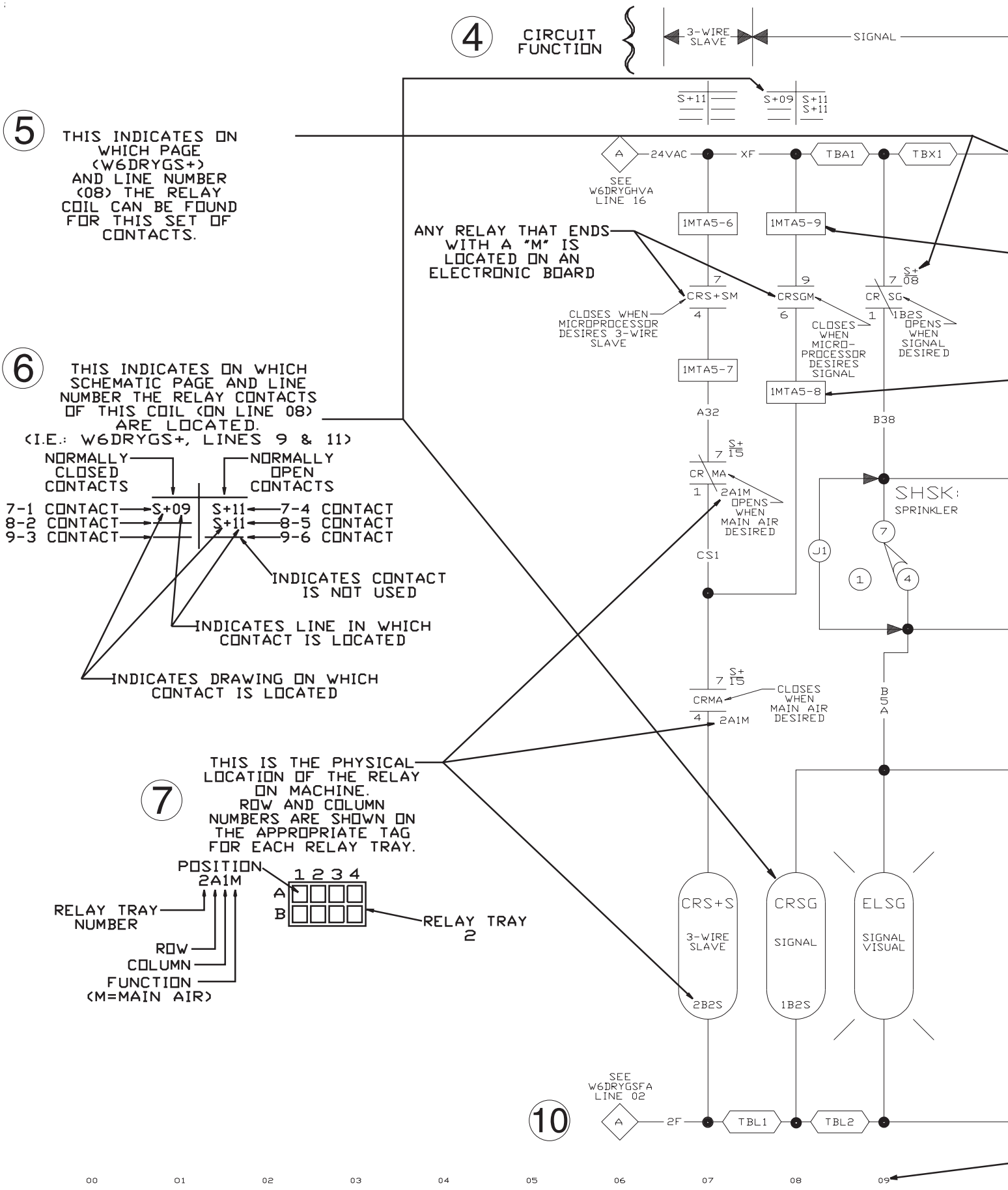
MTA41-MTA43 = digital to analog (D/A) boards

MTA51-MTA56 = analog to digital (A/D) boards

The complete listing of the boards utilized in a given control system can be found in the component list for that system.

⑨ The wire numbers, as described in the explanation of the signal routing table at the beginning of this section, are shown at appropriate locations on the schematic drawing.

⑩ Where diamond symbols appear at the end of a conductor, these are match points for continuing the schematic on another drawing. The page and line number that continues the circuit is printed adjacent to the diamond symbol. Where more than one match point appears on the referenced page, match diamonds containing corresponding letters.


4
CIRCUIT FUNCTION
3-WIRE SLAVE
SIGNAL
5
THIS INDICATES ON WHICH PAGE (W6DRYGS+) AND LINE NUMBER (08) THE RELAY COIL CAN BE FOUND FOR THIS SET OF CONTACTS.
S+11
S+09
S+11
S+11
A
24VAC
XF
TBA1
TBX1
SEE W6DRYGHVA LINE 16
1MTA5-6
1MTA5-9
ANY RELAY THAT ENDS WITH A "M" IS LOCATED ON AN ELECTRONIC BOARD
7
CRS+SM
4
9
CRSGM
6
7
S+08
CR SG
1
1B2S
CLOSES WHEN MICROPROCESSOR DESIRES 3-WIRE SLAVE
CLOSES WHEN MICRO-PROCESSOR DESIRES SIGNAL
OPENS WHEN SIGNAL DESIRED
1MTA5-7
1MTA5-8
6
THIS INDICATES ON WHICH SCHEMATIC PAGE AND LINE NUMBER THE RELAY CONTACTS OF THIS COIL (ON LINE 08) ARE LOCATED.
(I.E.: W6DRYGS+, LINES 9 & 11)
NORMALLY CLOSED CONTACTS
NORMALLY OPEN CONTACTS
7-1 CONTACT
8-2 CONTACT
9-3 CONTACT
S+09
S+11
S+11
7-4 CONTACT
8-5 CONTACT
9-6 CONTACT
INDICATES CONTACT IS NOT USED
INDICATES LINE IN WHICH CONTACT IS LOCATED
INDICATES DRAWING ON WHICH CONTACT IS LOCATED
A32
B38
7
S+15
CR MA
1
2A1M OPENS WHEN MAIN AIR DESIRED
CS1
SHSK
SPRINKLER
J1
7
1
4
7
S+15
CRMA
4
2A1M
CLOSES WHEN MAIN AIR DESIRED
B5A
7
THIS IS THE PHYSICAL LOCATION OF THE RELAY ON MACHINE. ROW AND COLUMN NUMBERS ARE SHOWN ON THE APPROPRIATE TAG FOR EACH RELAY TRAY.
POSITION 2A1M
1 2 3 4
A
B
RELAY TRAY NUMBER
RELAY TRAY 2
ROW
COLUMN
FUNCTION (M=MAIN AIR)
CRS+S
3-WIRE SLAVE
2B2S
CRSG
SIGNAL
1B2S
ELSG
SIGNAL VISUAL
SEE W6DRYGSFA LINE 02
10
A
2F
TBL1
TBL2
00
01
02
03
04
05
06
07
08
09

HOW TO READ MILNOR ELECTRICAL SCHEMATICS

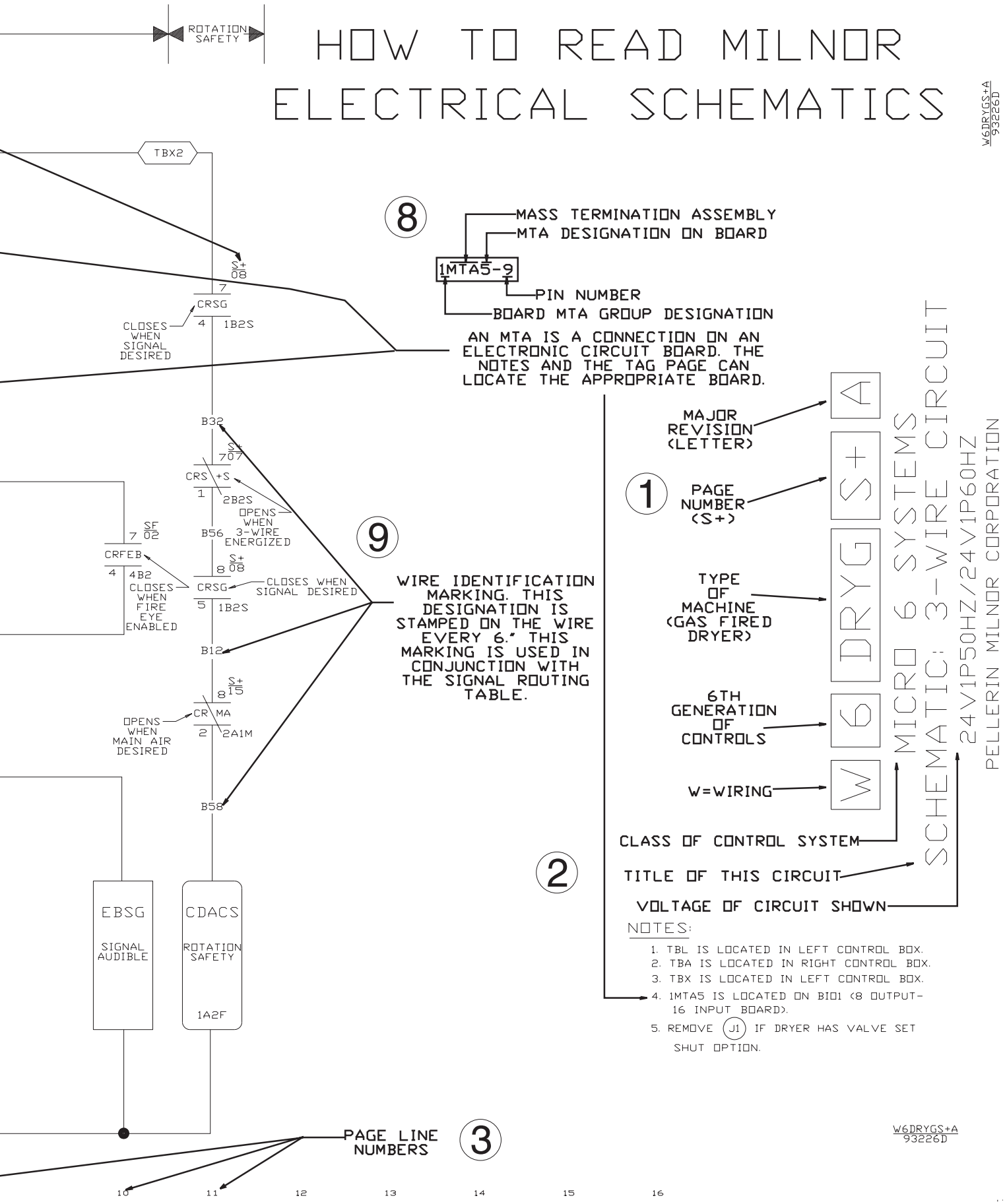
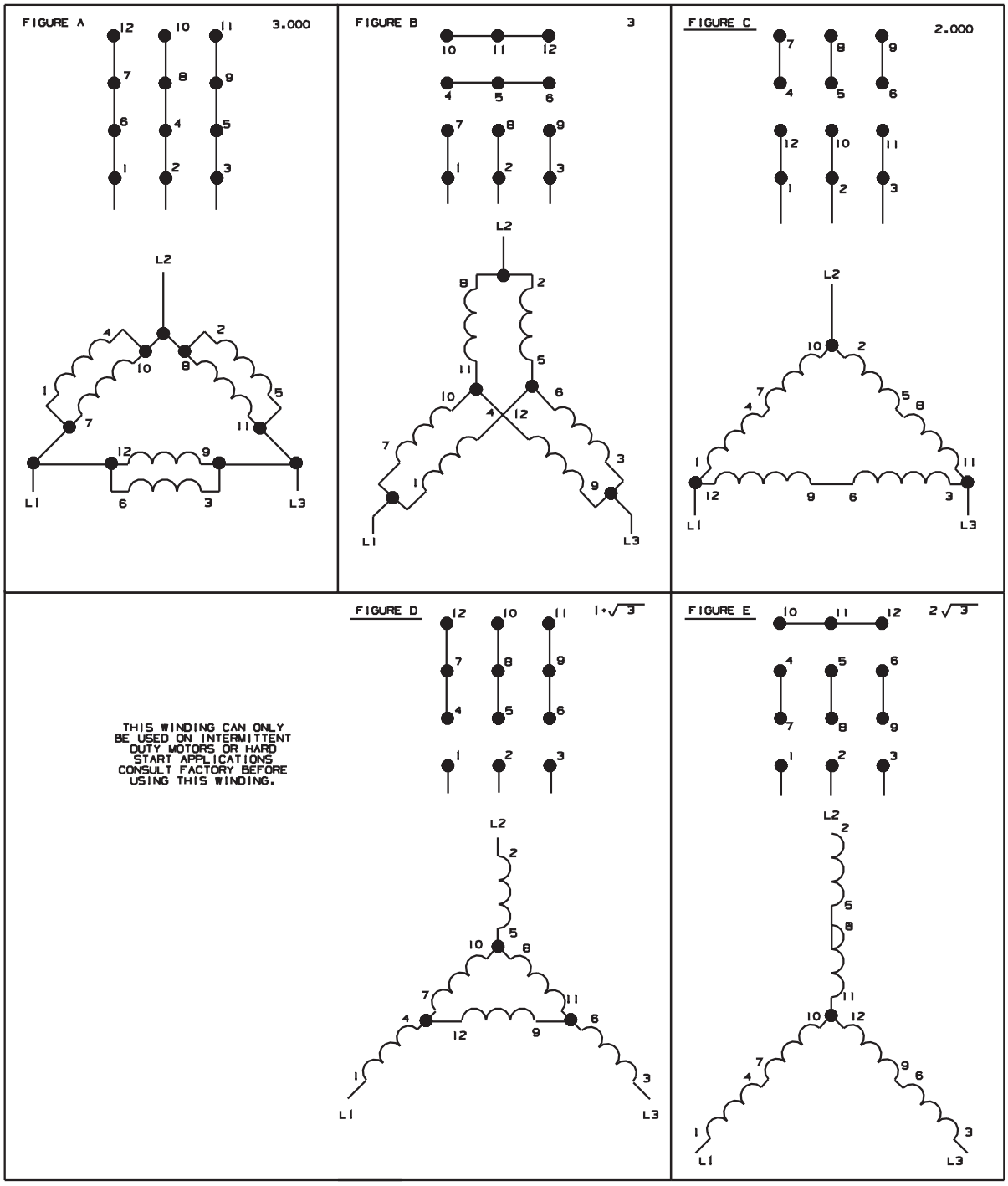


FIGURE	ELECTRICAL VALUES	SUFFIXES									
		B		H		M		T		U	
		50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ
A	1.000	208	230			200	220	220	240	200-220	208-240
B	$\sqrt{3}$				208	346	380	380		346-380	380
C	2.000	416	460	220	240	400	440	440	480	400-440	440-480
D	$1 \cdot \sqrt{3}$						600				600
E	$2\sqrt{3}$			380							



06 07 08 09 10 11 12 13 14 15 16 17

BMP850029

MOTOR CONNECTION DIAGRAMS

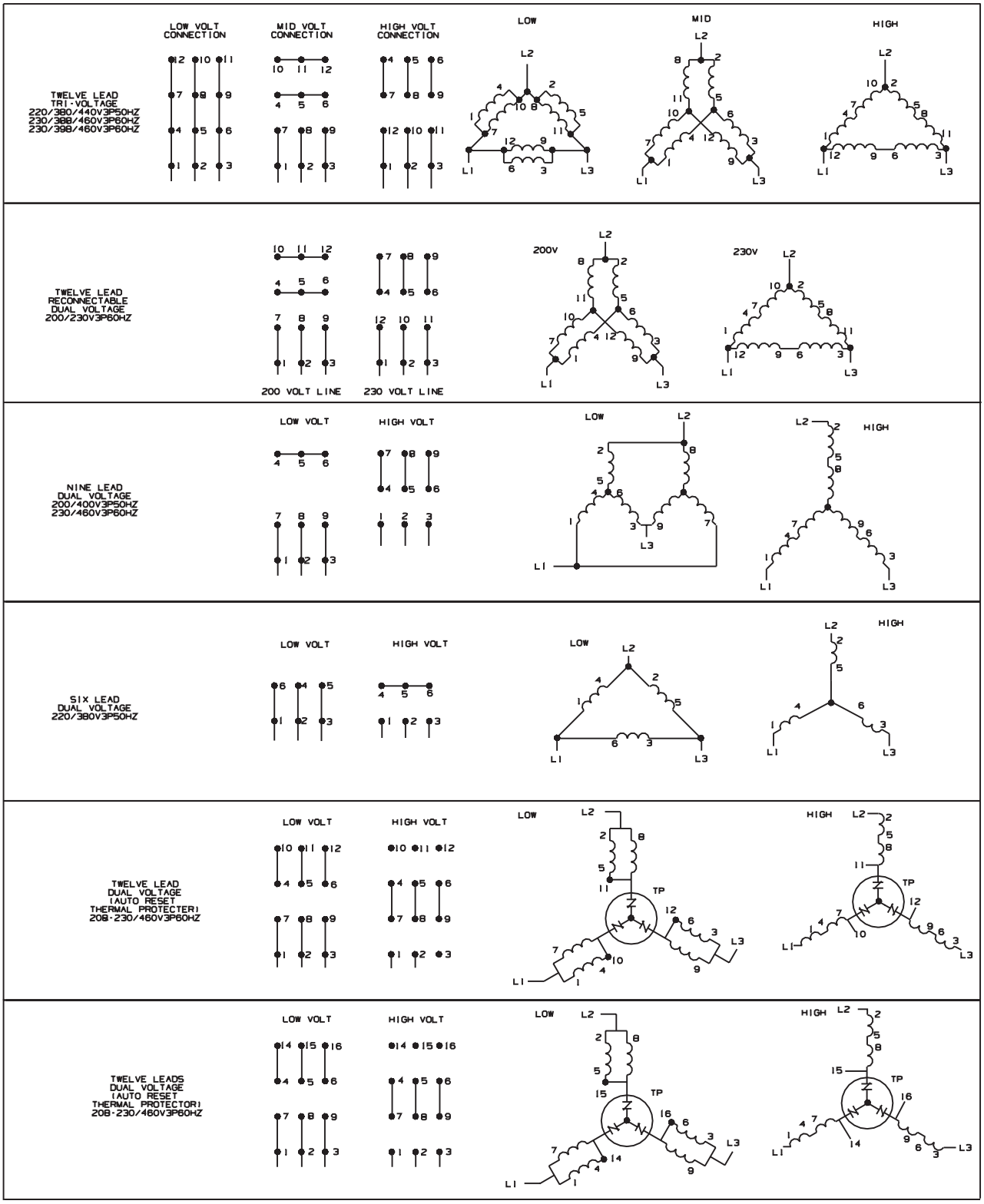
THREE PHASE SINGLE SPEED MOTORS WITH MULTIPLE VOLTAGE RATINGS

(ONLY FOR MOTOR SUFFIXES LISTED)

PELLERIN MILNOR CORPORATION

BMP850029
993628

BMP850029
993628

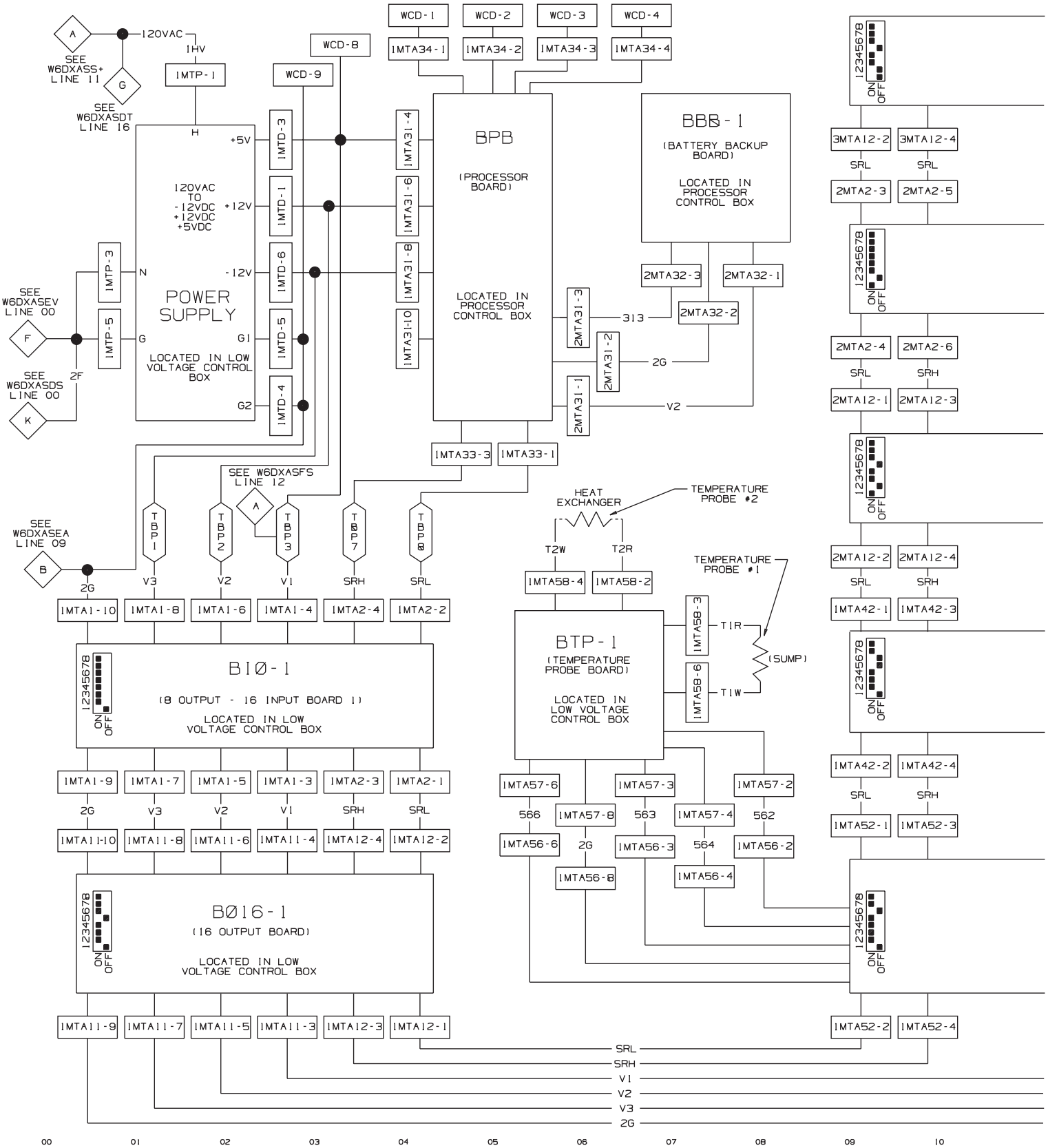


W80008

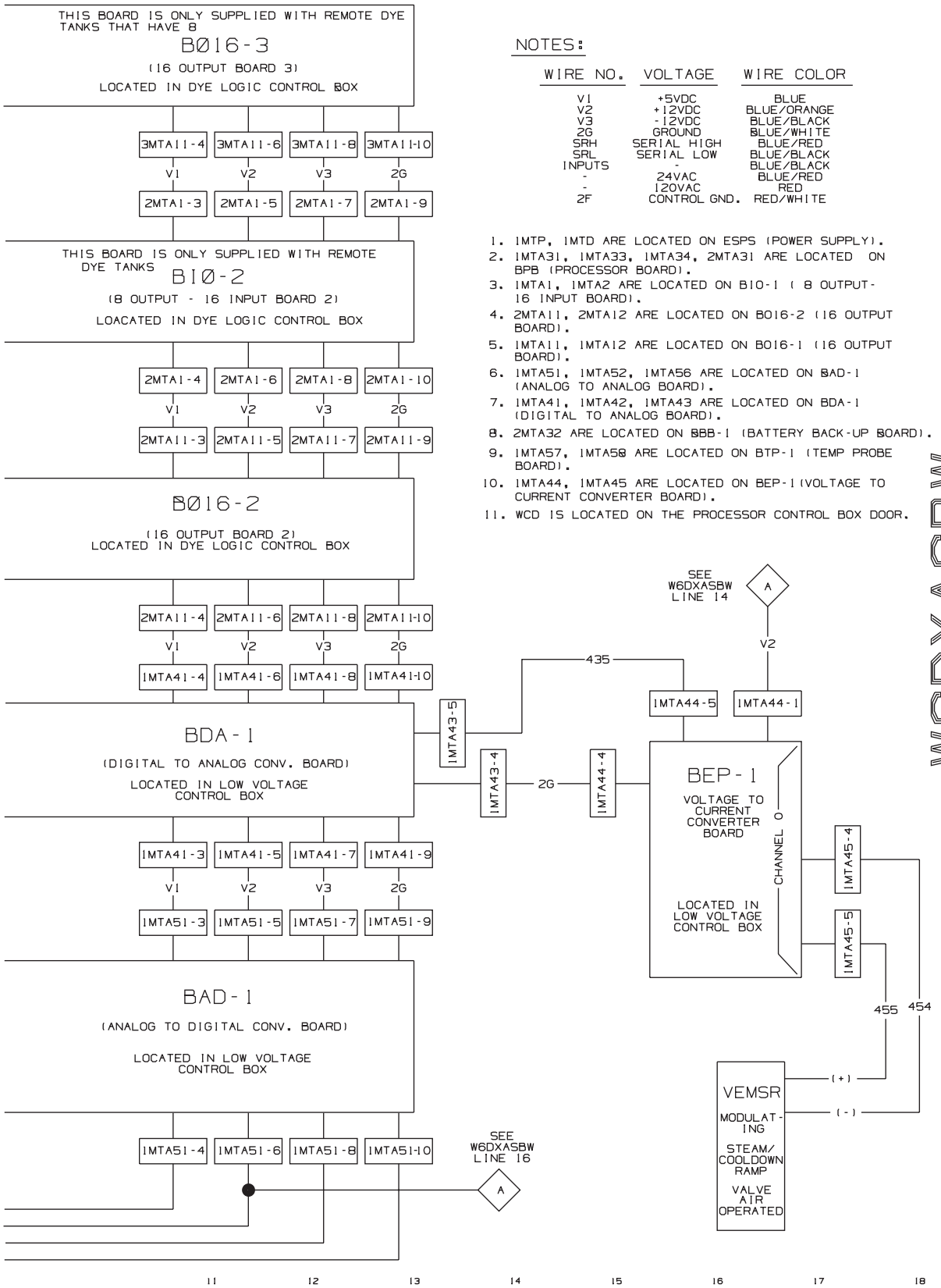
THREE PHASE
MOTOR CONNECTION DIAGRAMS
SINGLE SPEED MOTORS WITH MULTIPLE VOLTAGE RATINGS

PELLERIN MILNOR CORPORATION

W80008
962668



W6DXASBW
93361D

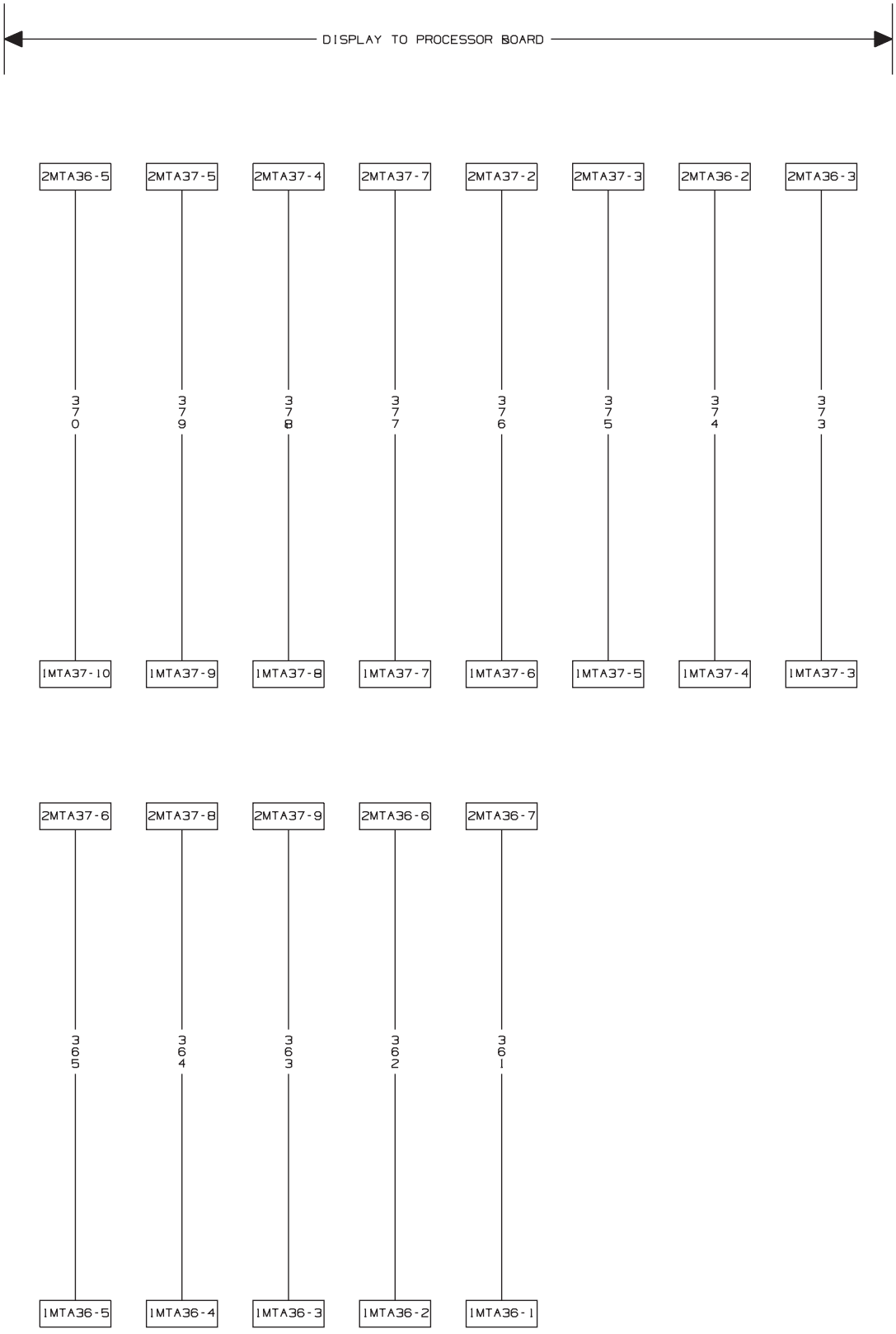


NOTES:

WIRE NO.	VOLTAGE	WIRE COLOR
V1	+5VDC	BLUE
V2	+12VDC	BLUE/ORANGE
V3	-12VDC	BLUE/BLACK
2G	GROUND	BLUE/WHITE
SRH	SERIAL HIGH	BLUE/RED
SRL	SERIAL LOW	BLUE/BLACK
INPUTS	-	BLUE/BLACK
-	24VAC	BLUE/RED
-	120VAC	RED
2F	CONTROL GND.	RED/WHITE

1. 1MTP, 1MTD ARE LOCATED ON ESPS (POWER SUPPLY).
2. 1MTA31, 1MTA33, 1MTA34, 2MTA31 ARE LOCATED ON BPB (PROCESSOR BOARD).
3. 1MTA1, 1MTA2 ARE LOCATED ON B10-1 (8 OUTPUT-16 INPUT BOARD).
4. 2MTA11, 2MTA12 ARE LOCATED ON B016-2 (16 OUTPUT BOARD).
5. 1MTA11, 1MTA12 ARE LOCATED ON B016-1 (16 OUTPUT BOARD).
6. 1MTA51, 1MTA52, 1MTA56 ARE LOCATED ON BAD-1 (ANALOG TO ANALOG BOARD).
7. 1MTA41, 1MTA42, 1MTA43 ARE LOCATED ON BDA-1 (DIGITAL TO ANALOG BOARD).
8. 2MTA32 ARE LOCATED ON SBB-1 (BATTERY BACK-UP BOARD).
9. 1MTA57, 1MTA58 ARE LOCATED ON BTP-1 (TEMP PROBE BOARD).
10. 1MTA44, 1MTA45 ARE LOCATED ON BEP-1(VOLTAGE TO CURRENT CONVERTER BOARD).
11. WCD IS LOCATED ON THE PROCESSOR CONTROL BOX DOOR.

W6DXASBW
MICRO 6 SYSTEMS SERIAL CONTROLS
SCHEMATIC: BOARD TO BOARD WIRING
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION


DISPLAY TO PROCESSOR BOARD
2MTA36-5
2MTA37-5
2MTA37-4
2MTA37-7
2MTA37-2
2MTA37-3
2MTA36-2
2MTA36-3
370
379
378
377
376
375
374
373
1MTA37-10
1MTA37-9
1MTA37-8
1MTA37-7
1MTA37-6
1MTA37-5
1MTA37-4
1MTA37-3
2MTA37-6
2MTA37-8
2MTA37-9
2MTA36-6
2MTA36-7
365
364
363
362
361
1MTA36-5
1MTA36-4
1MTA36-3
1MTA36-2
1MTA36-1
00
01
02
03
04
05
06
07
08
09

W6DXASDP

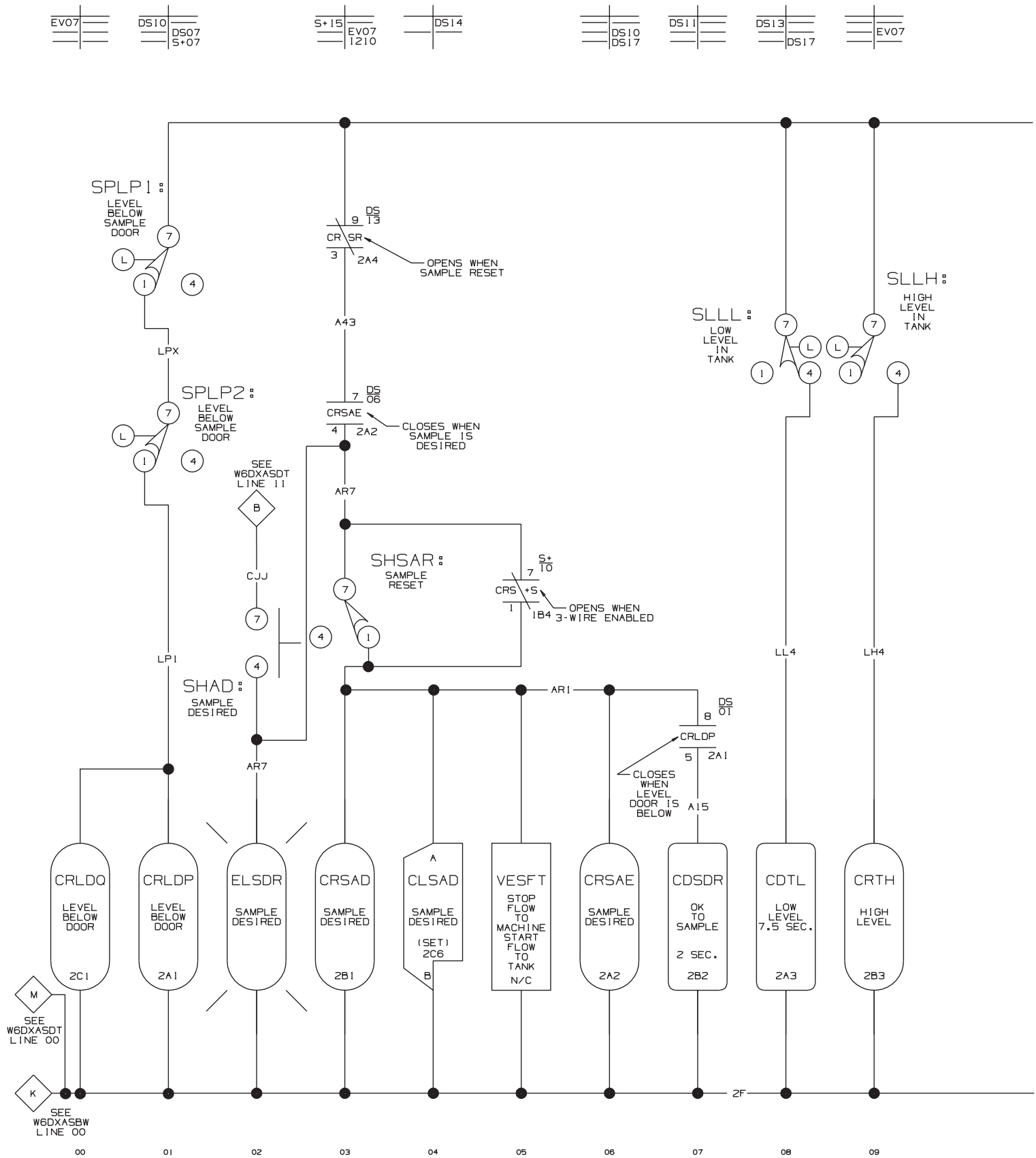
MICRO 6 SYSTEMS
SERIAL CONTROLS
SCHEMATIC: DISPLAY

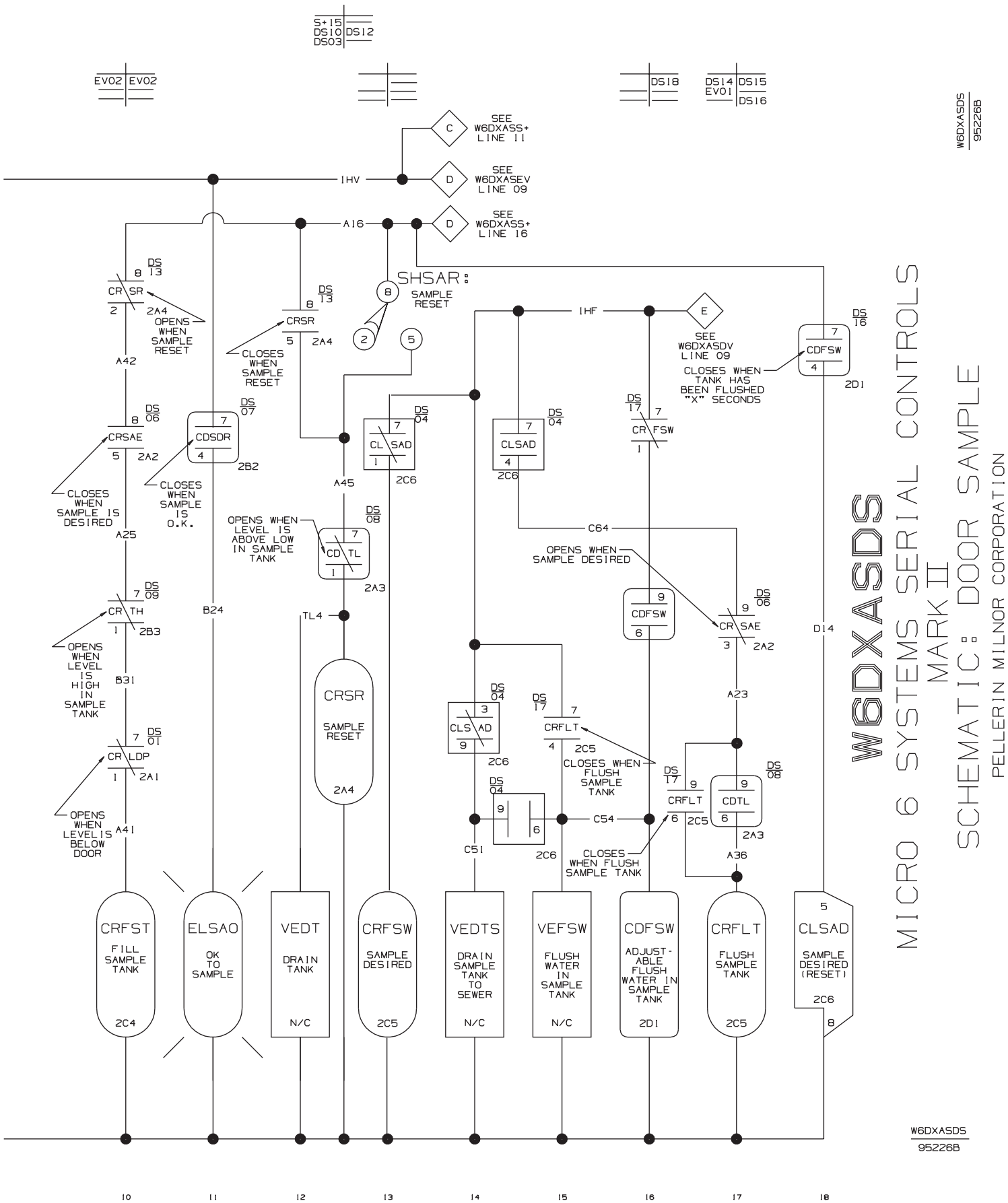
PELLERIN MILNOR CORPORATION

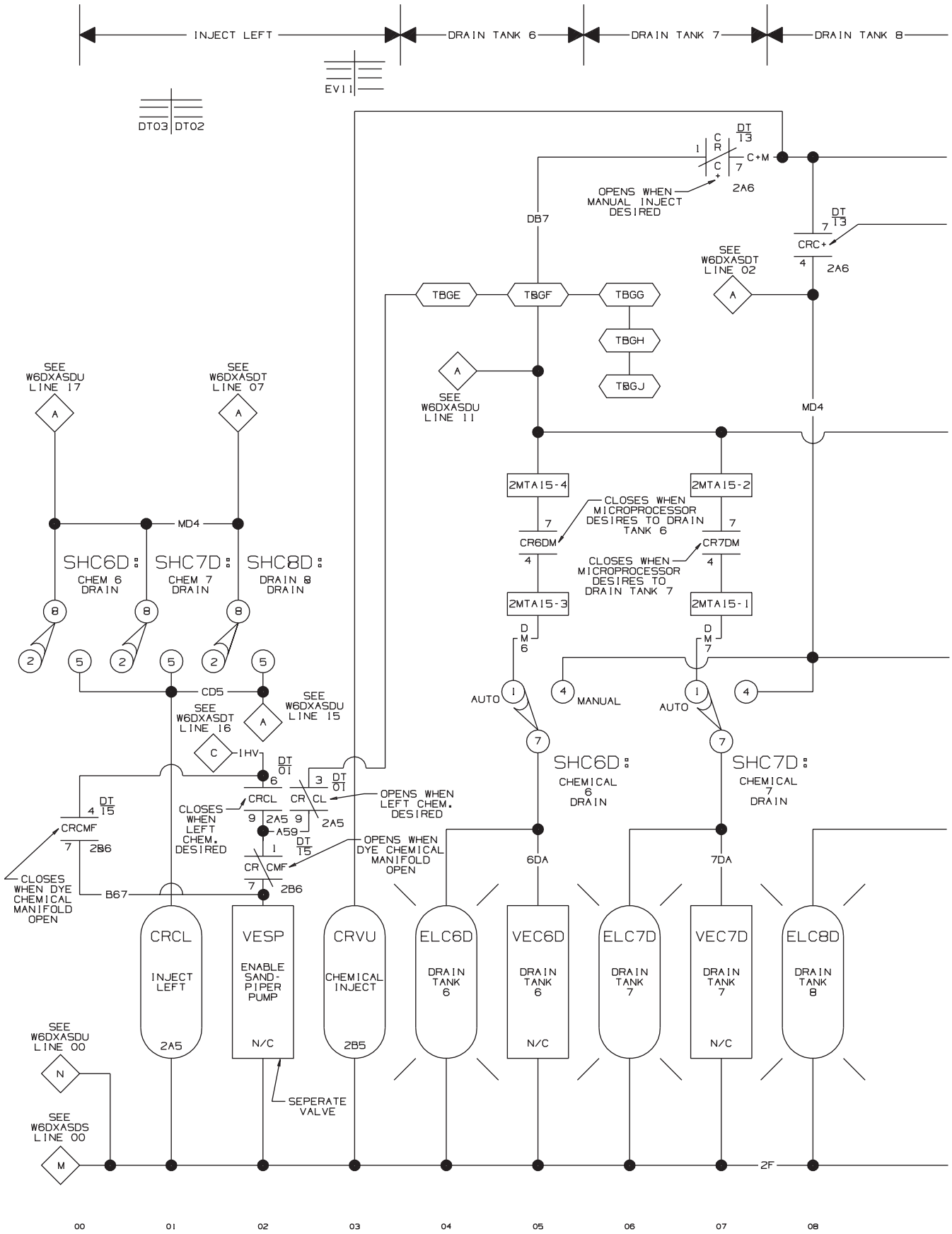
NOTES:

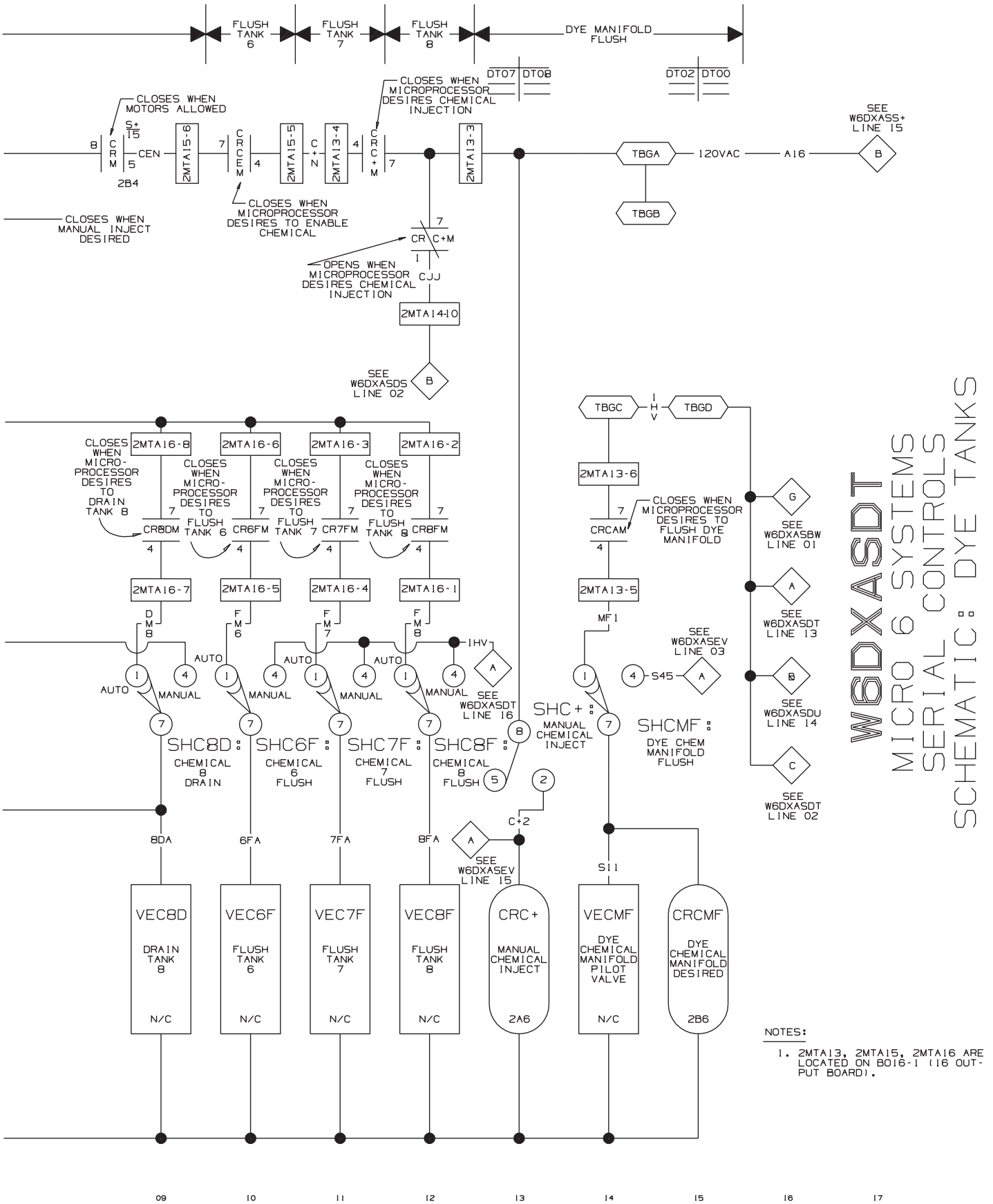
1. 1MTA36 & 1MTA37 ARE LOCATED ON BPB (PROCESSOR BOARD).
2. 2MTA36 & 2MTA37 ARE LOCATED ON DISPLAY BOARD.

10 11 12 13 14 15 16 17 18 19


EV07
DS10
DS07
S+07
S+15
EV07
1210
DS14
DS10
DS17
DS11
DS13
DS17
EV07
SPLP1:
LEVEL BELOW SAMPLE DOOR
SPLP2:
LEVEL BELOW SAMPLE DOOR
SHAD:
SAMPLE DESIRED
SHSAR:
SAMPLE RESET
SLLL:
LOW LEVEL IN TANK
SLLH:
HIGH LEVEL IN TANK
DS 13
CR SR
3
2A4
OPENS WHEN SAMPLE RESET
DS 06
CRSAE
4
2A2
CLOSES WHEN SAMPLE IS DESIRED
S+ 10
CRS +S
1
1B4
OPENS WHEN 3-WIRE ENABLED
DS 01
CRLDP
5
2A1
CLOSES WHEN LEVEL DOOR IS BELOW
A43
LPX
LP1
AR7
AR1
CJJ
A15
LL4
LH4
SEE W6DXASDT LINE 11
SEE W6DXASDT LINE 00
SEE W6DXASBW LINE 00
2F
CRLDQ
LEVEL BELOW DOOR
2C1
CRLDP
LEVEL BELOW DOOR
2A1
ELSDR
SAMPLE DESIRED
CRSAD
SAMPLE DESIRED
2B1
CLSAD
SAMPLE DESIRED
(SET)
2C6
VESFT
STOP FLOW TO MACHINE START FLOW TO TANK
N/C
CRSAE
SAMPLE DESIRED
2A2
CDSDR
OK TO SAMPLE
2 SEC.
2B2
CDTL
LOW LEVEL 7.5 SEC.
2A3
CRTH
HIGH LEVEL
2B3
00
01
02
03
04
05
06
07
08
09


W6DXASDS
MICRO 6 SYSTEMS SERIAL CONTROLS
MARK II
SCHEMATIC: DOOR SAMPLE
PELLERIN MILNOR CORPORATION
W6DXASDS
95226B
S+15 DS10 DS03 DS12
EV02 EV02
DS18
DS14 EV01 DS15 DS16
SEE W6DXASS+ LINE 11
SEE W6DXASEV LINE 09
SEE W6DXASS+ LINE 16
IHV
A16
SHSAR: SAMPLE RESET
CR SR
CRSR
CRSAE
CDSDR
CL SAD
CLSAD
CR FSW
CDFSW
CR TH
CR LDP
CR SAE
CD TL
CLS AD
CRFLT
CDTL
OPENS WHEN SAMPLE RESET
CLOSES WHEN SAMPLE RESET
CLOSES WHEN SAMPLE IS DESIRED
CLOSES WHEN SAMPLE IS O.K.
OPENS WHEN LEVEL IS ABOVE LOW IN SAMPLE TANK
OPENS WHEN LEVEL IS HIGH IN SAMPLE TANK
OPENS WHEN LEVEL IS BELOW DOOR
OPENS WHEN SAMPLE DESIRED
CLOSES WHEN TANK HAS BEEN FLUSHED "X" SECONDS
CLOSES WHEN FLUSH SAMPLE TANK
CLOSES WHEN FLUSH SAMPLE TANK
CRFST FILL SAMPLE TANK 2C4
ELSAO OK TO SAMPLE
VEDT DRAIN TANK N/C
CRFSW SAMPLE DESIRED 2C5
VEDTS DRAIN SAMPLE TANK TO SEWER N/C
VEFSW FLUSH WATER IN SAMPLE TANK N/C
CDFSW ADJUST-ABLE FLUSH WATER IN SAMPLE TANK 2D1
CRFLT FLUSH SAMPLE TANK 2C5
CLSAD SAMPLE DESIRED (RESET) 2C6
10 11 12 13 14 15 16 17 18

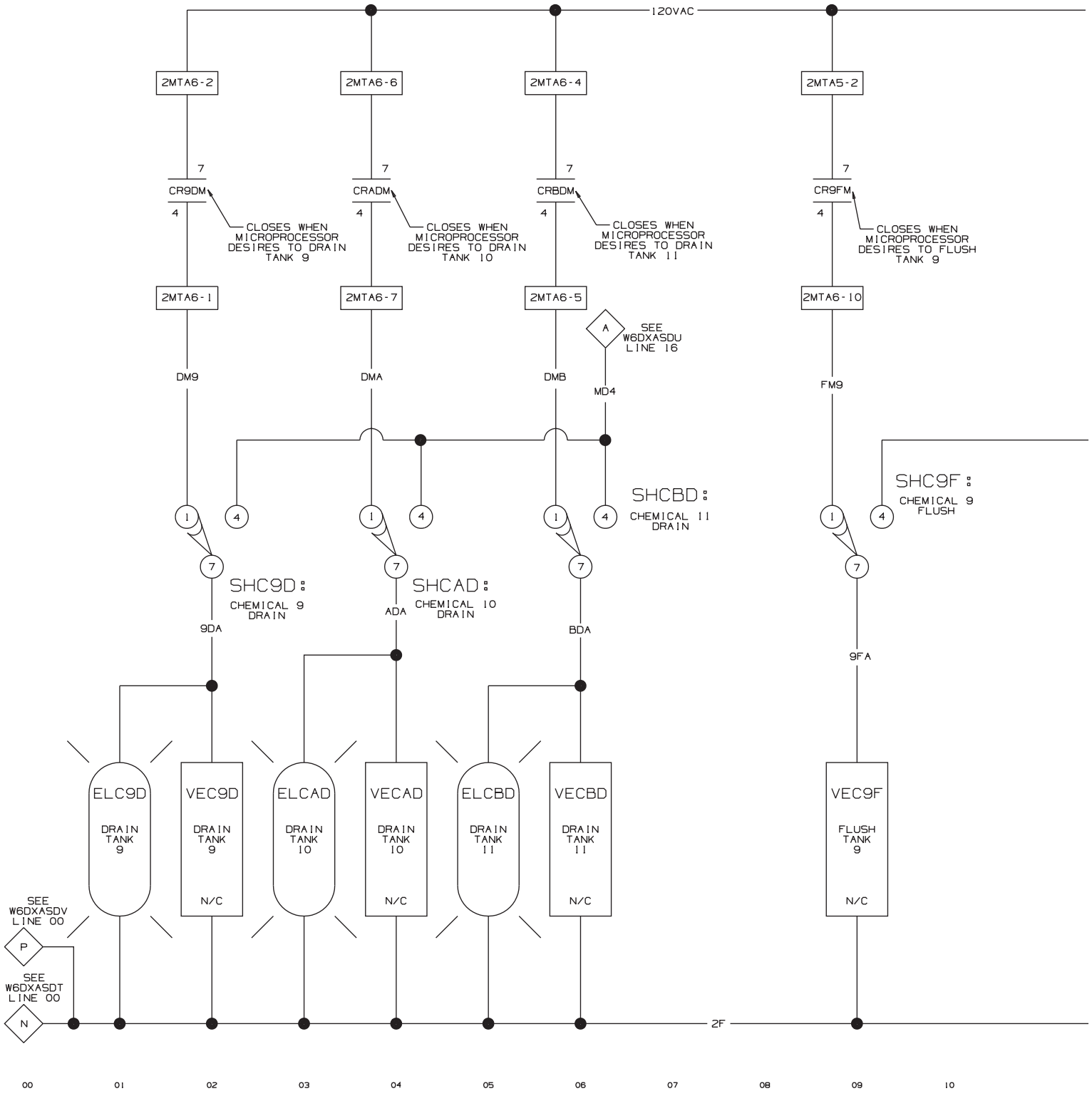

INJECT LEFT
DRAIN TANK 6
DRAIN TANK 7
DRAIN TANK 8
EV11
DT03 DT02
DT 13
C+M
OPENS WHEN MANUAL INJECT DESIRED
2A6
DB7
CRC+
SEE W6DXASDT LINE 02
TBGE
TBGF
TBGG
TBGH
TBGJ
SEE W6DXASDU LINE 11
MD4
SEE W6DXASDU LINE 17
SEE W6DXASDT LINE 07
2MTA15-4
2MTA15-2
CLOSES WHEN MICROPROCESSOR DESIRES TO DRAIN TANK 6
CR6DM
CR7DM
CLOSES WHEN MICROPROCESSOR DESIRES TO DRAIN TANK 7
2MTA15-3
2MTA15-1
SHC6D: CHEM 6 DRAIN
SHC7D: CHEM 7 DRAIN
SHC8D: DRAIN 8 DRAIN
CD5
SEE W6DXASDT LINE 16
SEE W6DXASDU LINE 15
1HV
AUTO
MANUAL
SHC6D: CHEMICAL 6 DRAIN
SHC7D: CHEMICAL 7 DRAIN
CRCL
CRCMF
CLOSES WHEN LEFT CHEM. DESIRED
OPENS WHEN LEFT CHEM. DESIRED
OPENS WHEN DYE CHEMICAL MANIFOLD OPEN
CLOSES WHEN DYE CHEMICAL MANIFOLD OPEN
A59
B67
6DA
7DA
CRCL INJECT LEFT 2A5
VESP ENABLE SAND-PIPER PUMP N/C
CRVU CHEMICAL INJECT 2B5
ELC6D DRAIN TANK 6
VEC6D DRAIN TANK 6 N/C
ELC7D DRAIN TANK 7
VEC7D DRAIN TANK 7 N/C
ELC8D DRAIN TANK 8
SEPERATE VALVE
SEE W6DXASDU LINE 00
SEE W6DXASDS LINE 00
2F
00 01 02 03 04 05 06 07 08



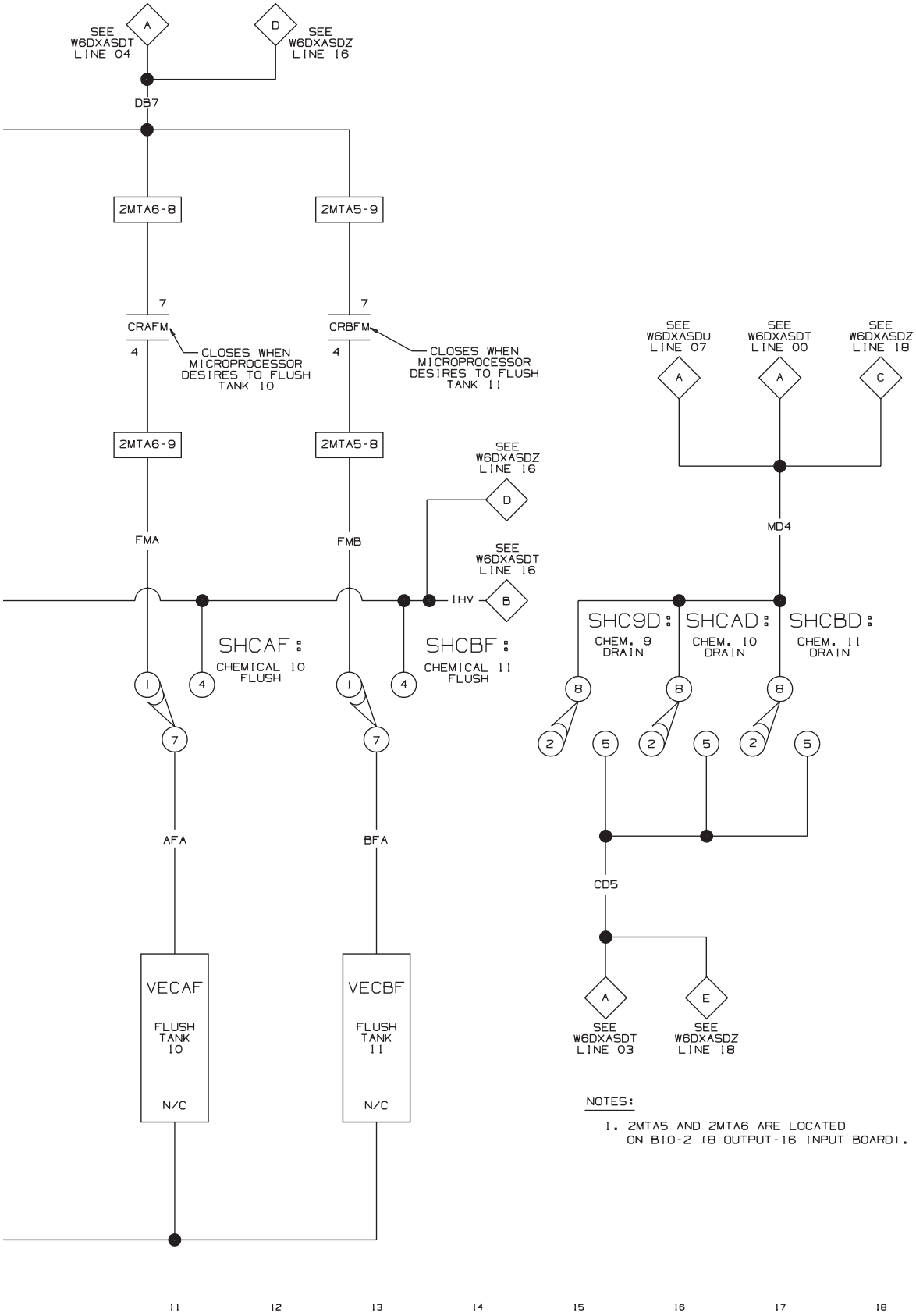
W6DXASDT
MICRO 6 SYSTEMS
SERIAL CONTROLS
SCHEMATIC: DYE TANKS
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

NOTES:

1. 2MTA13, 2MTA15, 2MTA16 ARE LOCATED ON BOI6-1 (16 OUTPUT BOARD).



W6DXASDU
93361D

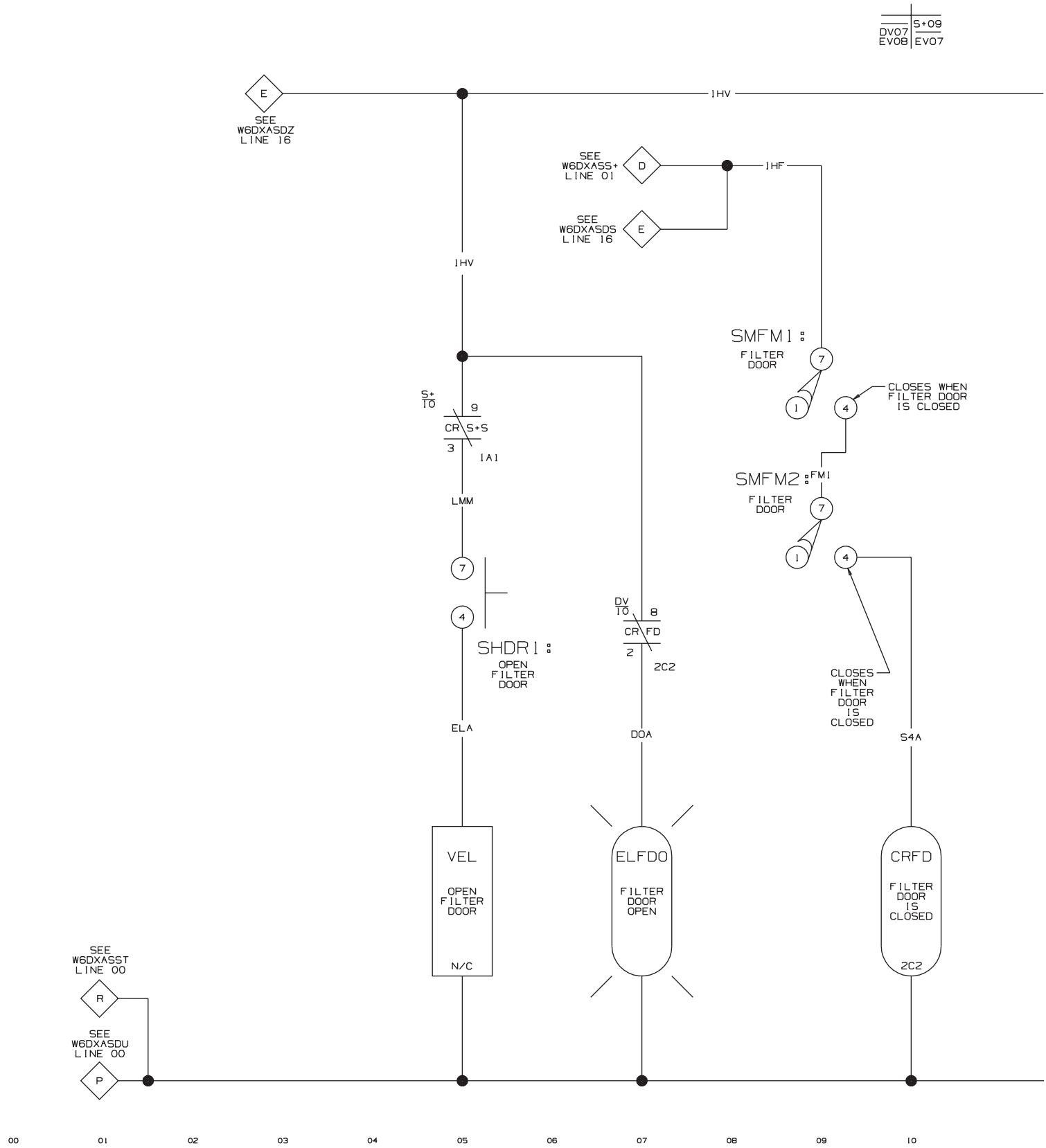


NOTES:

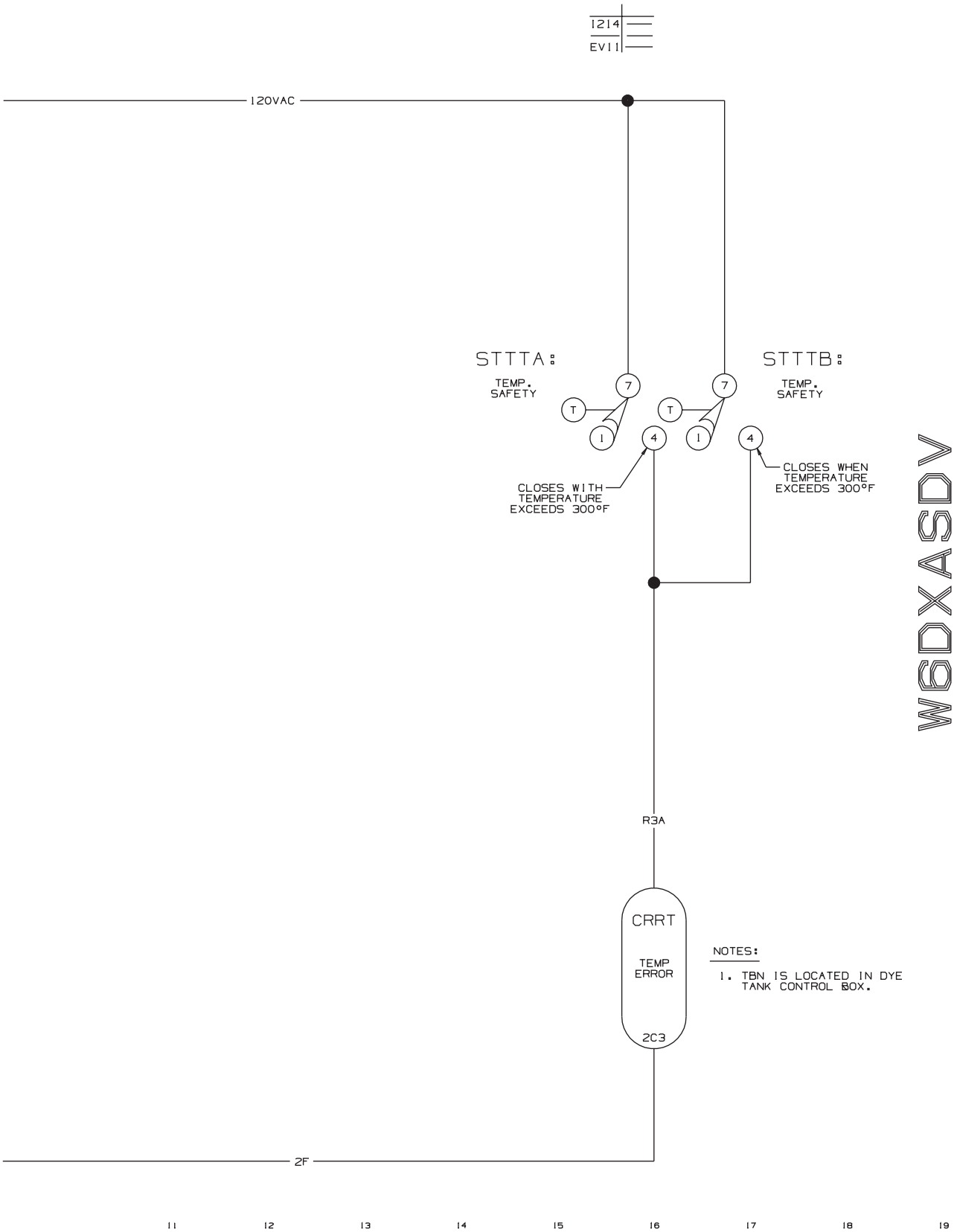
1. 2MTA5 AND 2MTA6 ARE LOCATED ON BIO-2 (8 OUTPUT-16 INPUT BOARD).

W6DXASDU
MICRO SYSTEMS
SERIAL CONTROLS
SCHEMATIC: DYE TANKS DRAIN/FLUSH

PELLERIN MILNOR CORPORATION



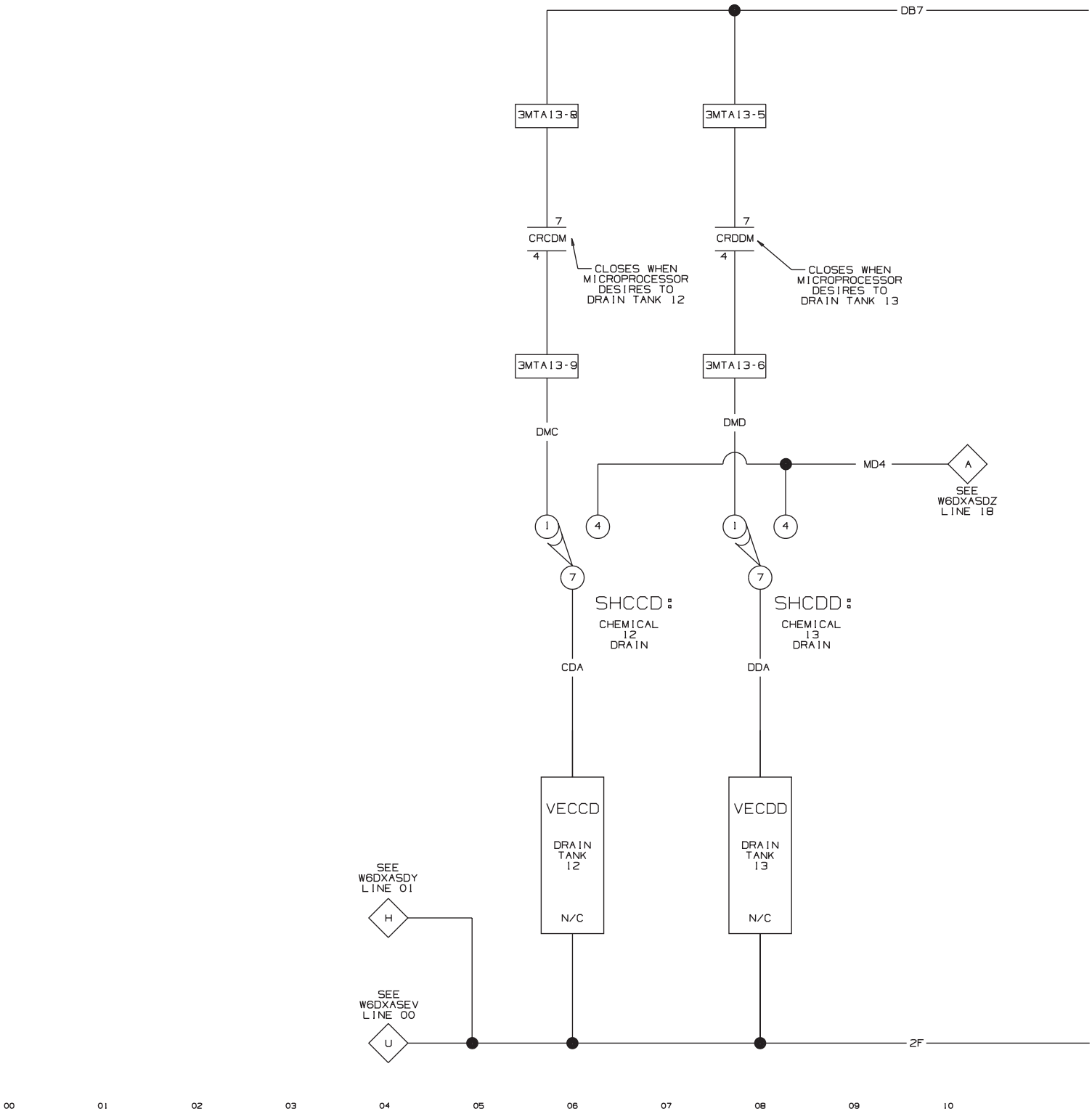
W6DXASDV
99396B



W6DXASDV
MICRO 6 SYSTEMS
SERIAL CONTROLS
SCHEMATIC: DYE TANK FILTER TANK
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

NOTES:

1. TBN IS LOCATED IN DYE TANK CONTROL BOX.

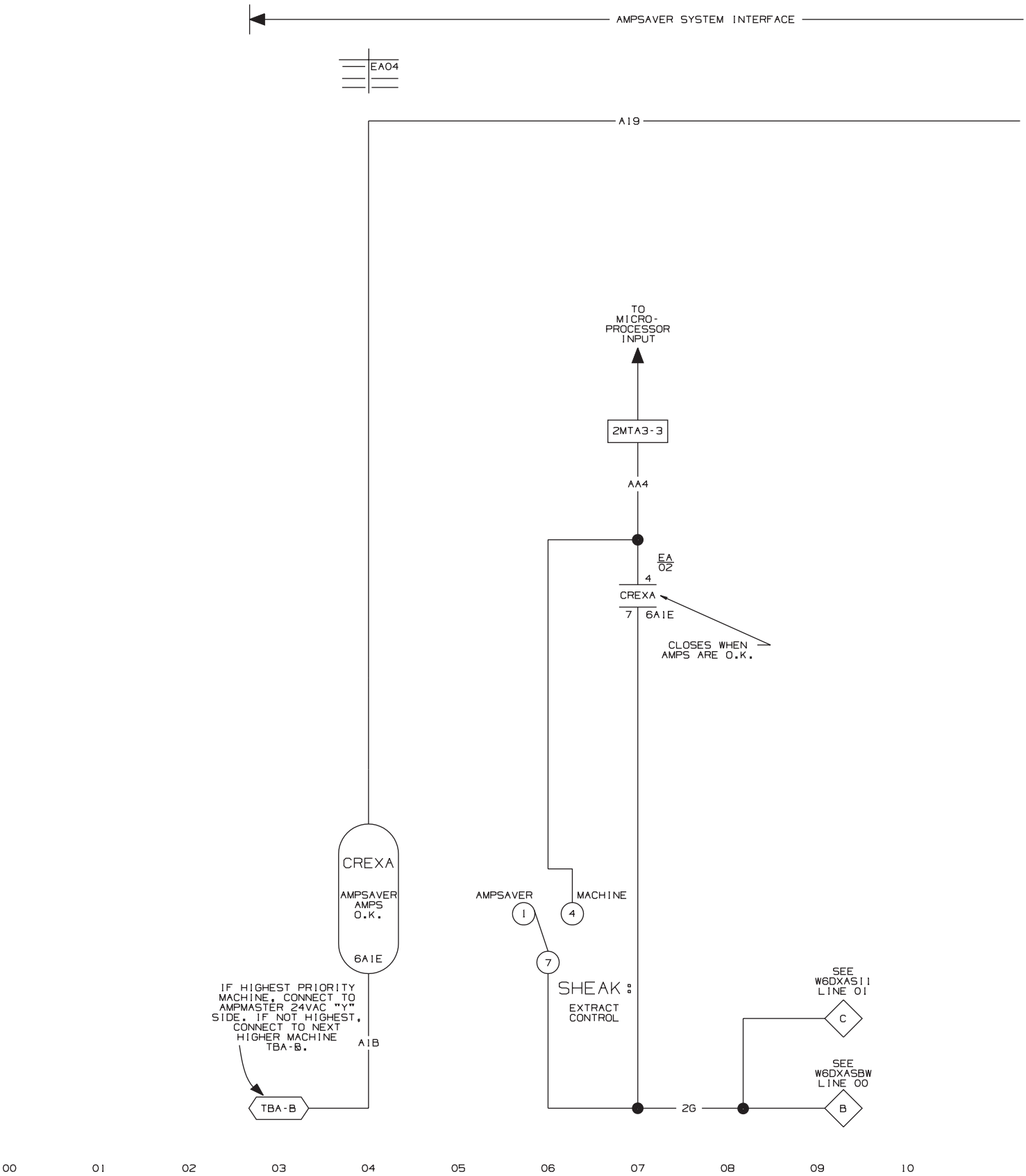

DB7
3MTA13-8
3MTA13-5
7
CRCDM
4
CLOSES WHEN MICROPROCESSOR DESIRES TO DRAIN TANK 12
7
CRDDM
4
CLOSES WHEN MICROPROCESSOR DESIRES TO DRAIN TANK 13
3MTA13-9
3MTA13-6
DMC
DMD
MD4
A
SEE W6DXASDZ LINE 18
1
4
1
4
7
7
SHCCD:
CHEMICAL 12 DRAIN
SHCDD:
CHEMICAL 13 DRAIN
CDA
DDA
VECCD
DRAIN TANK 12
N/C
VECDD
DRAIN TANK 13
N/C
SEE W6DXASDY LINE 01
H
SEE W6DXASEV LINE 00
U
2F
00
01
02
03
04
05
06
07
08
09
10

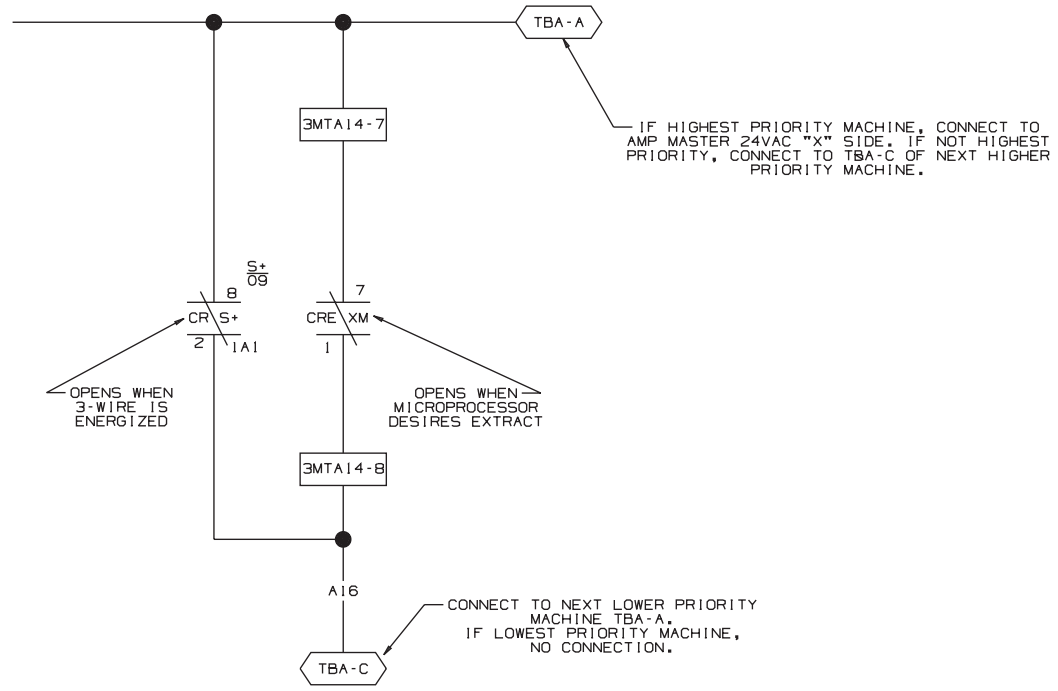
W6DXASDZ

MICRO 6 SYSTEMS
SERIAL CONTROLS

SCHEMATIC: ADD 2 REMOTE DYE TANKS - 8

PELLERIN MILNOR CORPORATION


AMPSAVER SYSTEM INTERFACE
EA04
A19
TO MICRO-PROCESSOR INPUT
2MTA3-3
AA4
EA 02
4
CREXA
7 6A1E
CLOSES WHEN AMPS ARE O.K.
CREXA
AMPSAVER AMPS O.K.
6A1E
IF HIGHEST PRIORITY MACHINE, CONNECT TO AMPMASTER 24VAC "Y" SIDE. IF NOT HIGHEST, CONNECT TO NEXT HIGHER MACHINE TBA-B.
A1B
TBA-B
AMPSAVER
1
MACHINE
4
7
SHEAK :
EXTRACT CONTROL
SEE W6DXASII LINE 01
C
SEE W6DXASBW LINE 00
B
2G
00
01
02
03
04
05
06
07
08
09
10

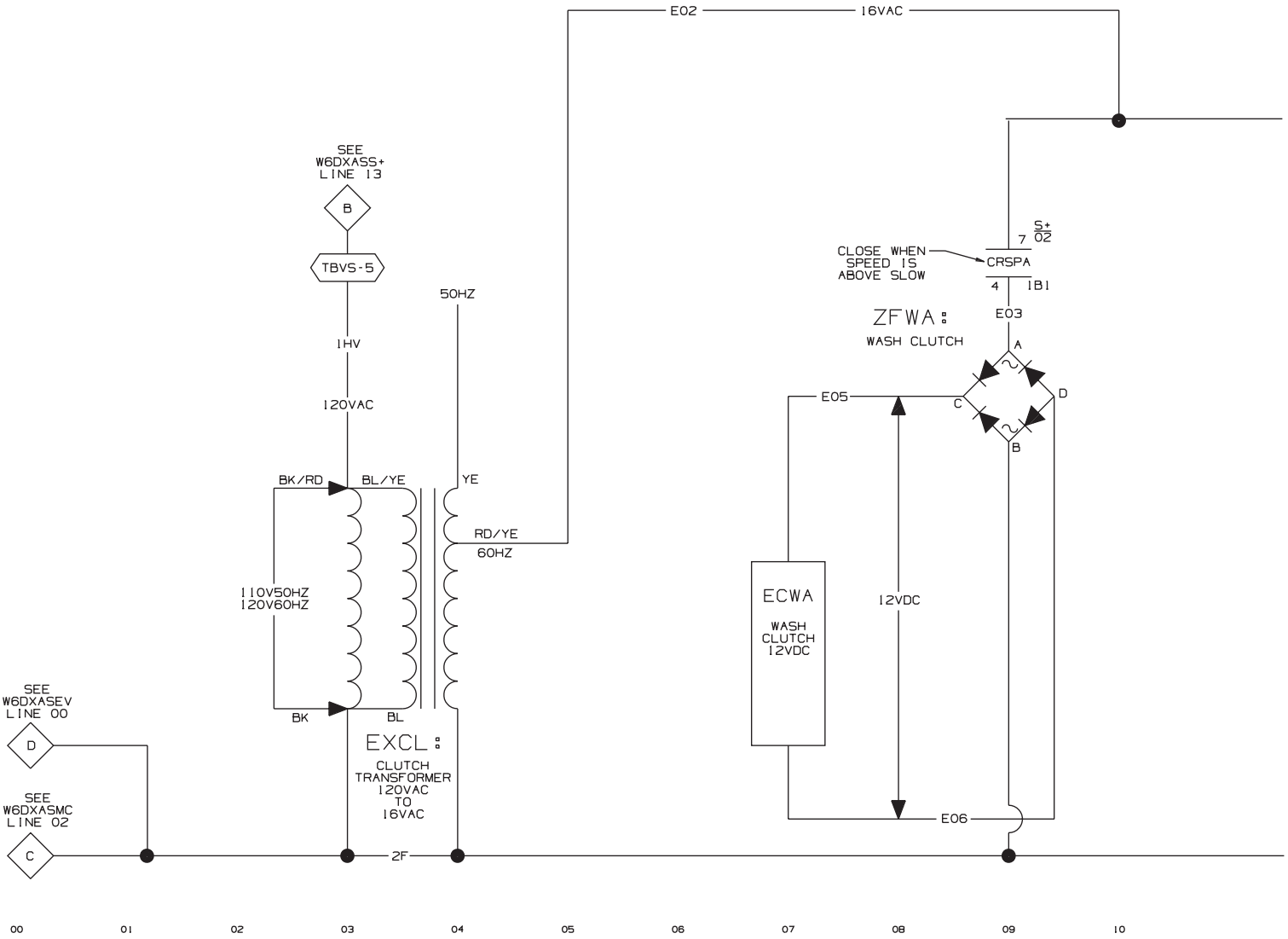


W6DXASEA
MICRO 6 SYSTEMS
SERIAL CONTROLS
EXTRACT COMMANDS SATISFIED
SCHEMATIC:
24V1P50HZ/24V1P60HZ
PELLERIN MILNOR CORPORATION

NOTES:

1. TBA IS LOCATED IN THE LOW VOLTAGE CONTROL BOX.
2. 1MTA34 IS LOCATED ON BPB (PROCESSOR BOARD)
3. AMPSAVER INTERFACE (MK4, MK5, AND MICRO 6)

11 12 13 14 15 16

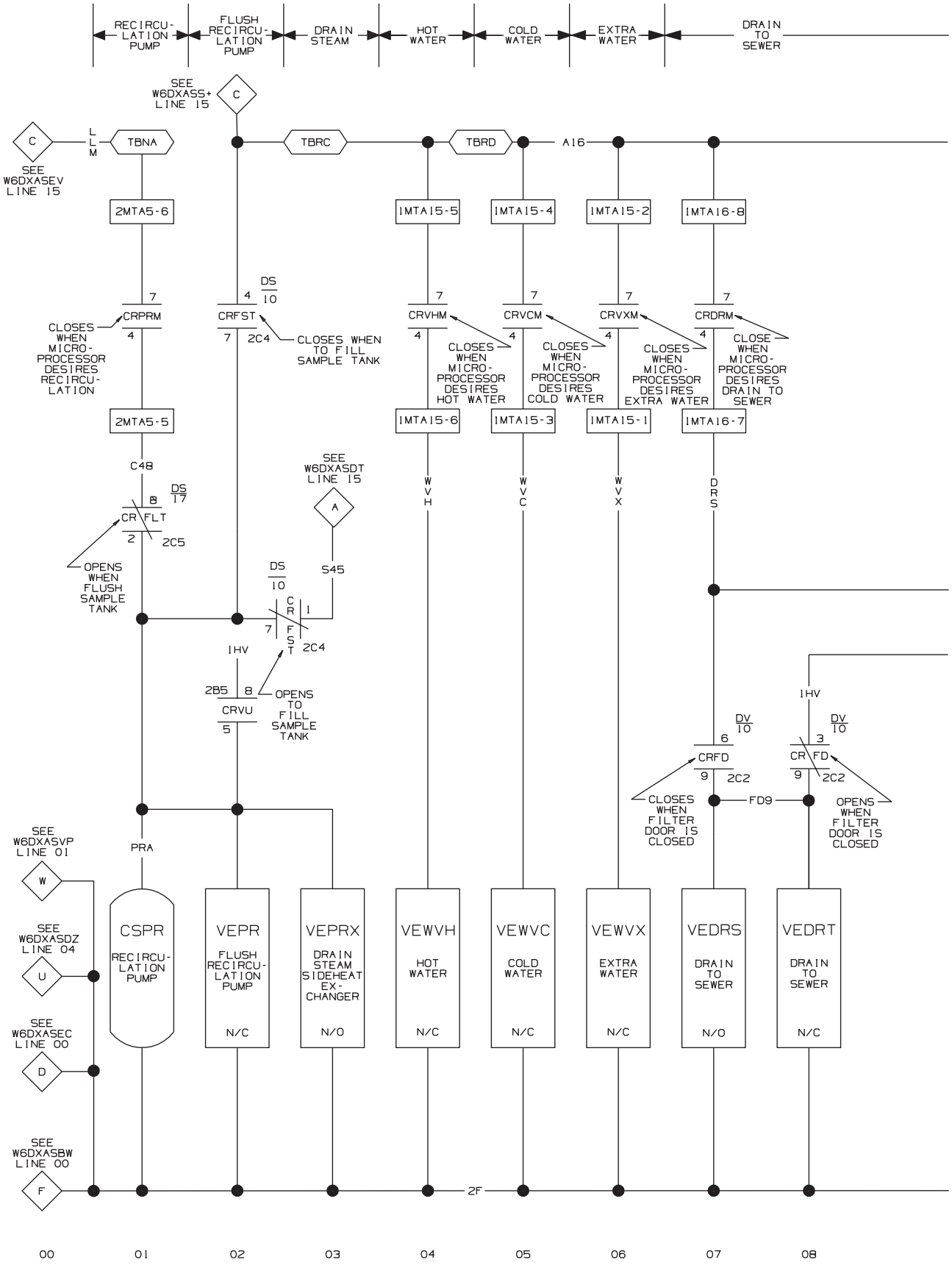


W6DXASEC
93361D

W6DXASEC

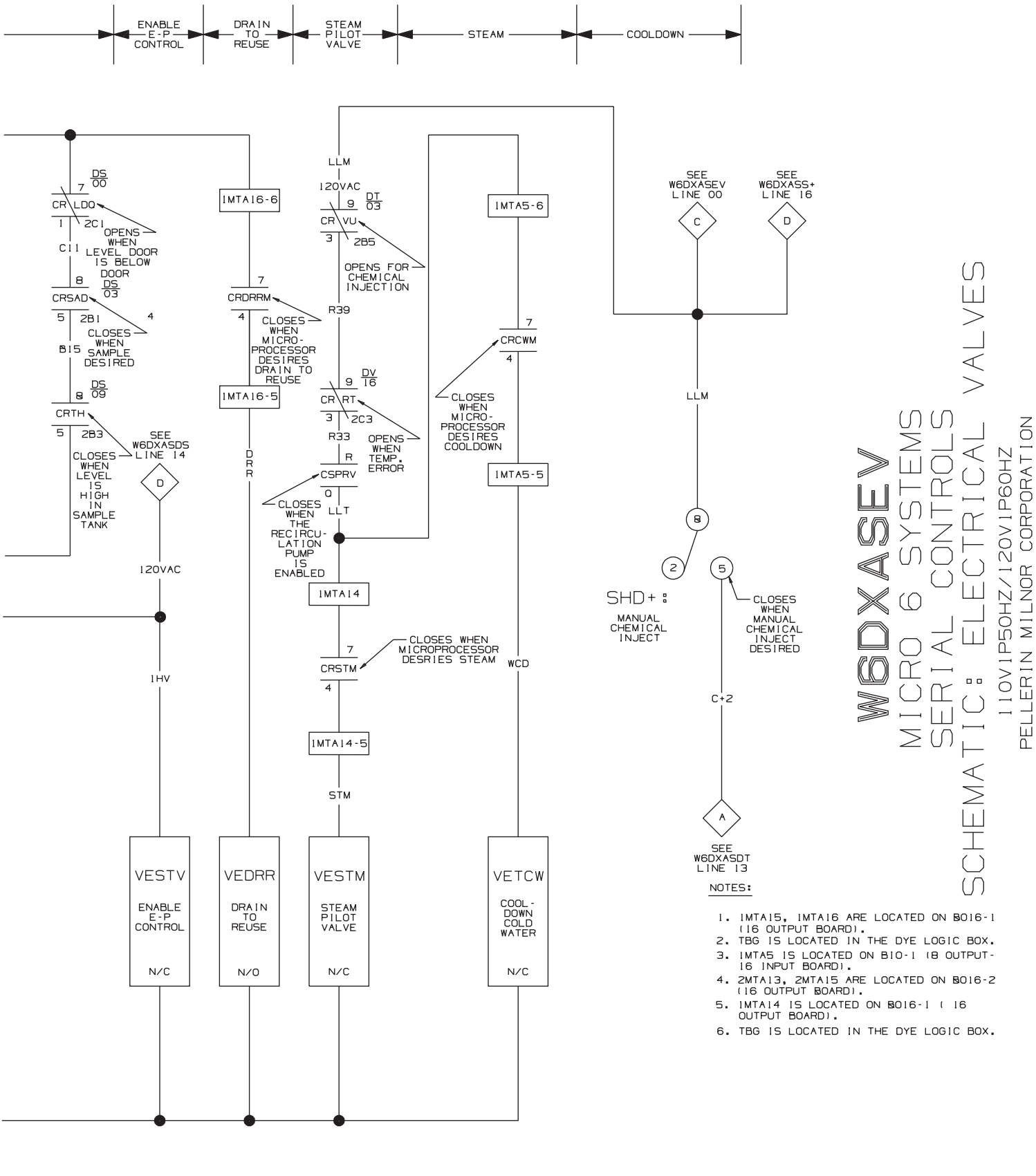
MICRO 6 SYSTEMS
SERIAL CONTROLS
SCHEMATIC: ELECTRICAL/CLUTCHES
110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION



W6DXASEV

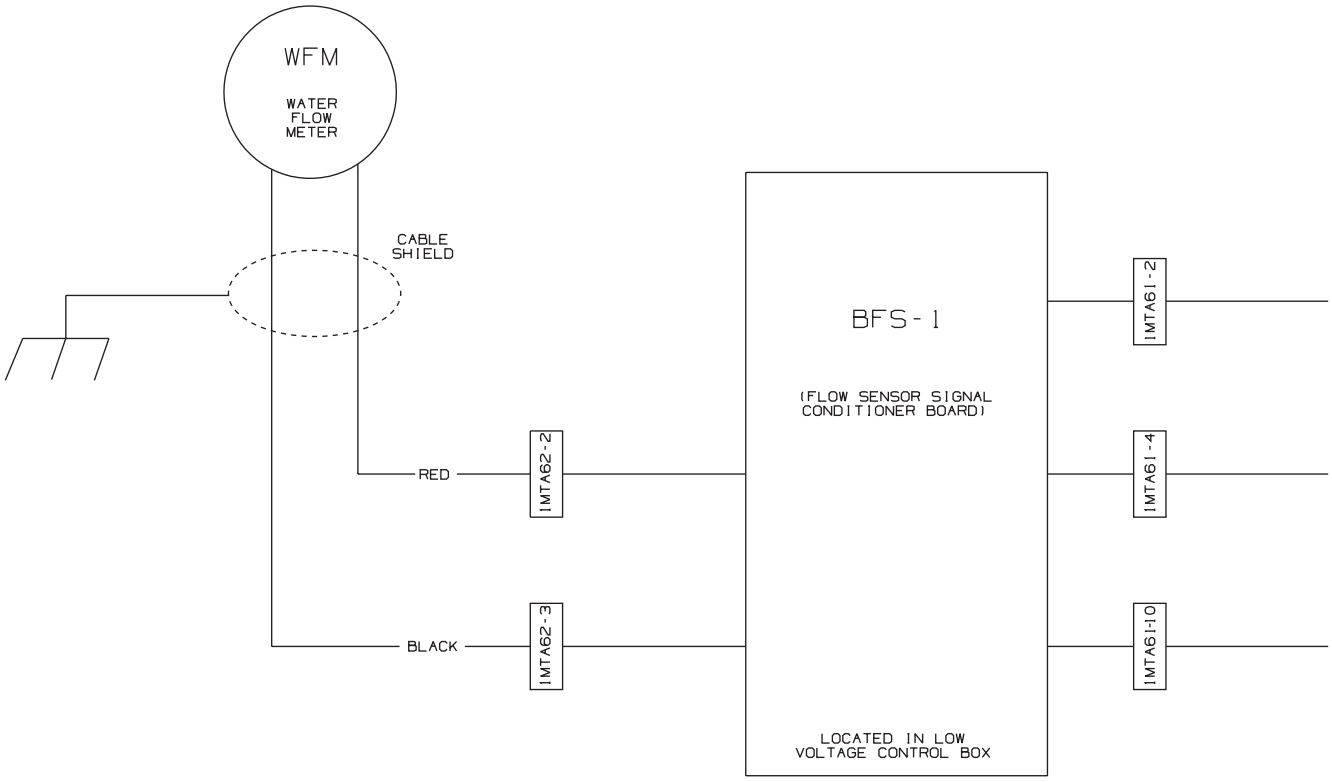
99396B



W6DXASEV
MICRO 6 SYSTEMS
SERIAL CONTROLS
SCHEMATIC: ELECTRICAL VALVES
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION

NOTES:

1. 1MTA15, 1MTA16 ARE LOCATED ON BO16-1 (16 OUTPUT BOARD).
2. TBG IS LOCATED IN THE DYE LOGIC BOX.
3. 1MTA5 IS LOCATED ON B10-1 (8 OUTPUT-16 INPUT BOARD).
4. 2MTA13, 2MTA15 ARE LOCATED ON BO16-2 (16 OUTPUT BOARD).
5. 1MTA14 IS LOCATED ON BO16-1 (16 OUTPUT BOARD).
6. TBG IS LOCATED IN THE DYE LOGIC BOX.



00 01 02 03 04 05 06 07 08 09 10

W6DXASFS
93481D

612 — 1MTA2-6

VI — A — SEE W6DXASBW LINE 02

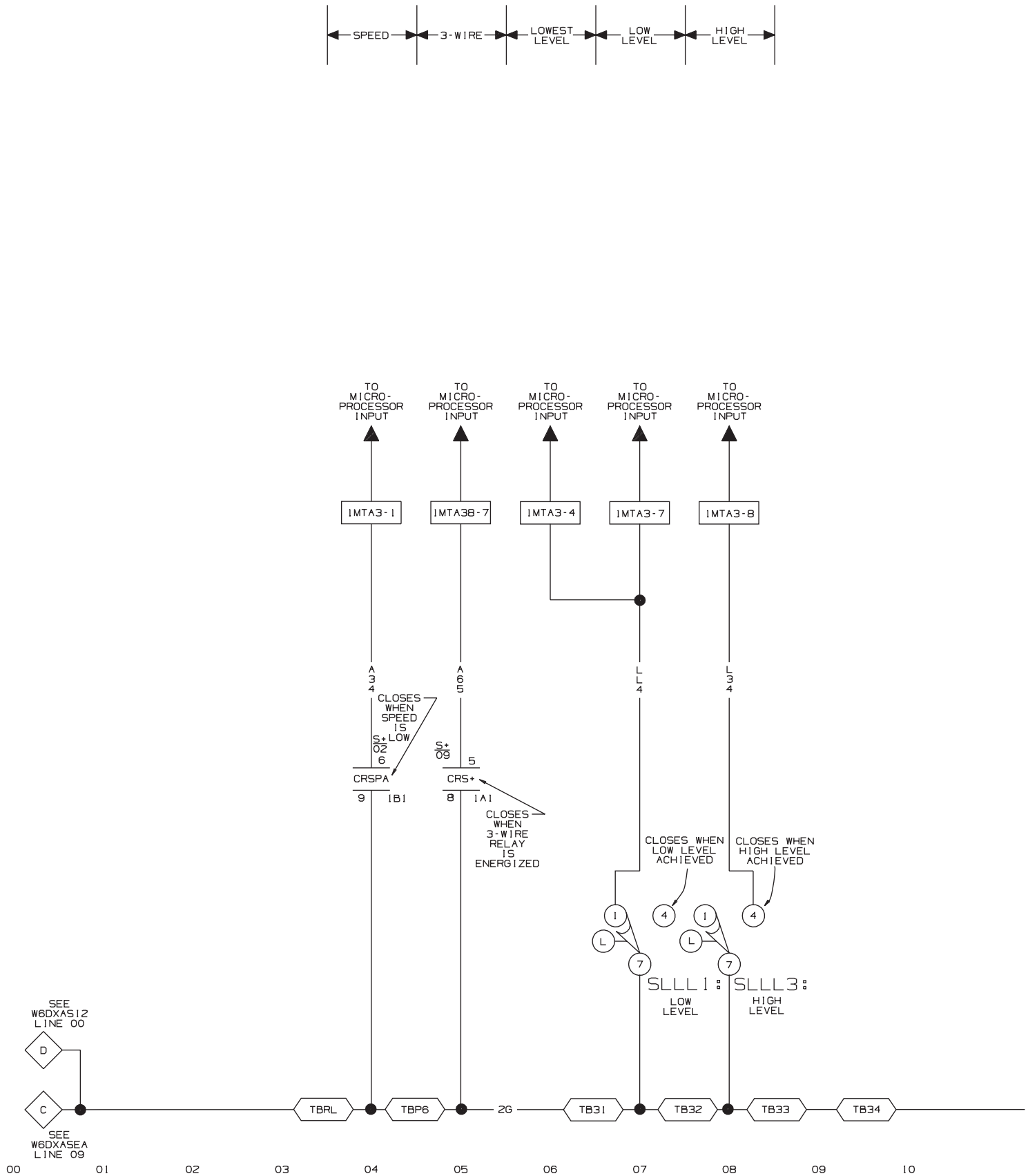
2G — E — SEE W6DXAS12 LINE 02

W6DXASFS
MICRO 6 SYSTEMS
SERIAL CONTROLS
SCHEMATIC: FLOW SENSOR
PELLERIN MILNOR CORPORATION

NOTES:

1. MTA61, MTA62 ARE LOCATED ON BFS-1 (FLOW SENSOR SIGNAL CONDITIONER BOARD)
2. 1MTA2 IS LOCATED ON BIO-1 (8 OUTPUT-16 INPUT BOARD)

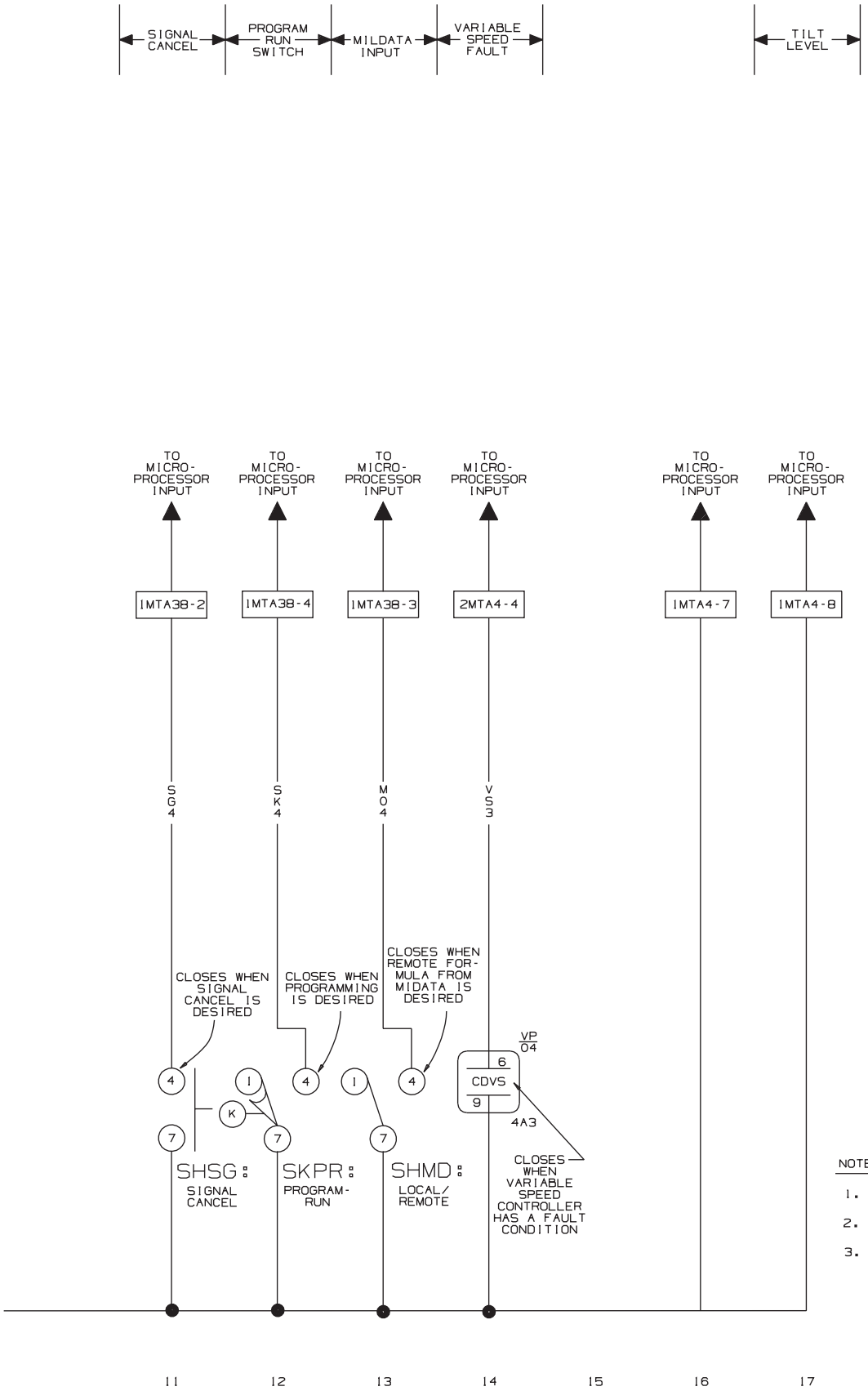
11 12 13 14 15 16



W6DXAS11
99396B

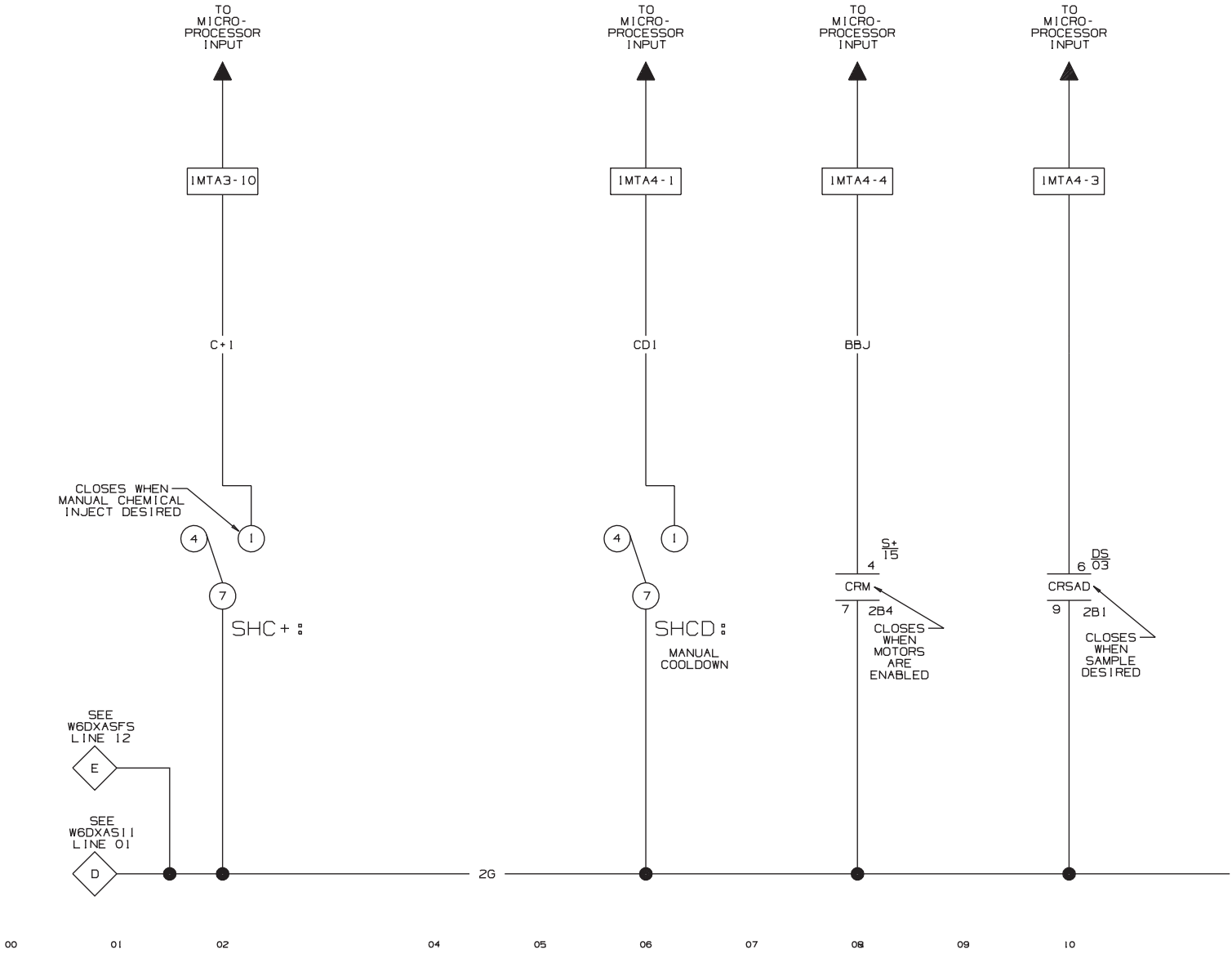
W6DXASI1
MICRO 6 SYSTEMS SERIAL CONTROLS
SCHEMATIC: MICROPROCESSOR INPUTS (SHEET 1 OF 1)

PELLERIN MILNOR CORPORATION



NOTES:

1. 1MTA3, 1MTA4 ARE LOCATED ON BIO-1 (8 OUTPUT - 16 INPUT BOARD).
2. 1MTA38 IS LOCATED ON BPB (PROCESSSOR BOARD).
3. TBR, TBP, TB3 (COPPER BUS BAR) ARE LOCATED IN THE LOW VOLTAGE CONTROL BOX.



W6DXAS12
99396B

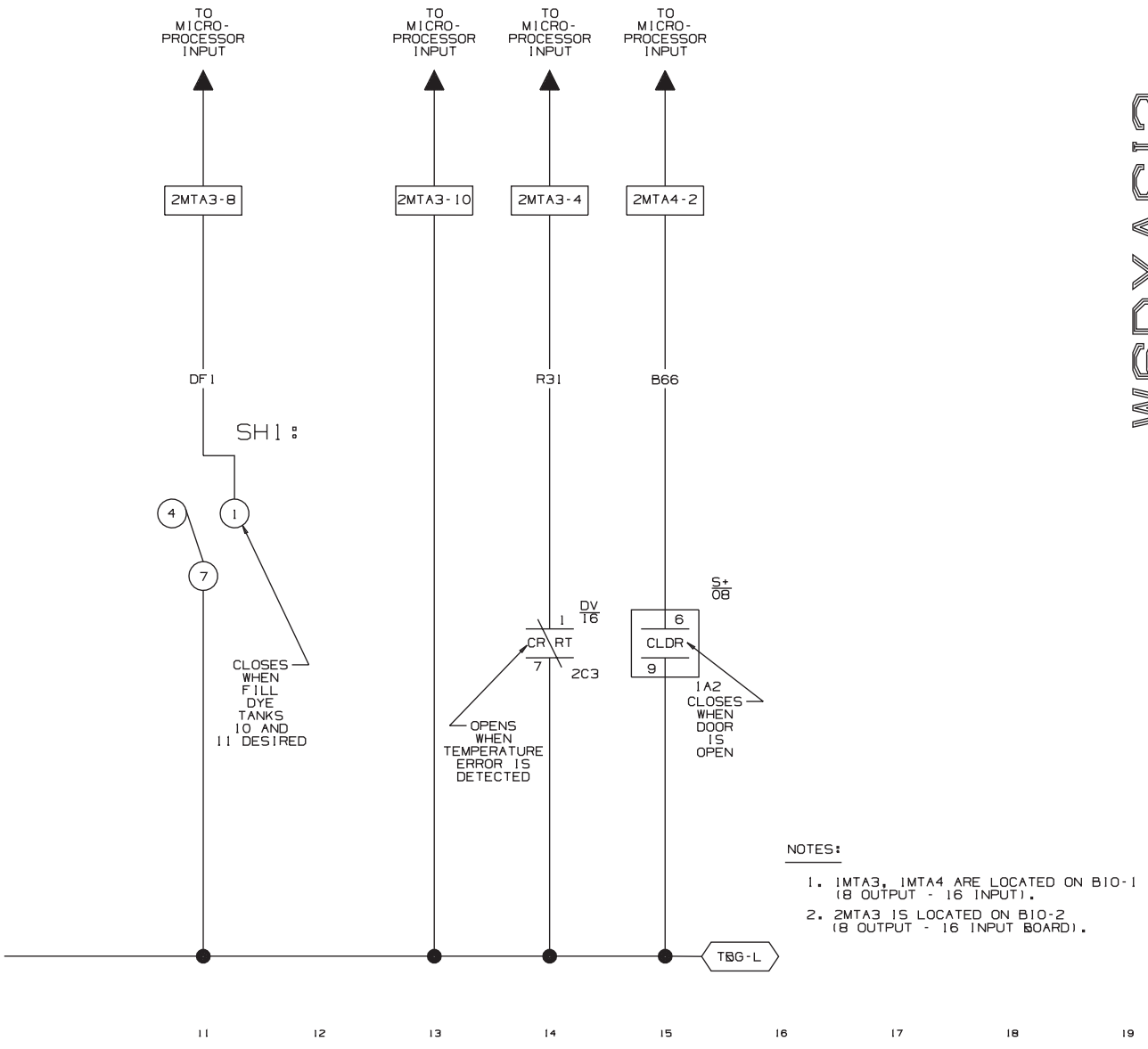
W6DXAS12

MICRO 6 SYSTEMS SERIAL CONTROLS

SCHEMATIC: MICROPROCESSOR INPUTS

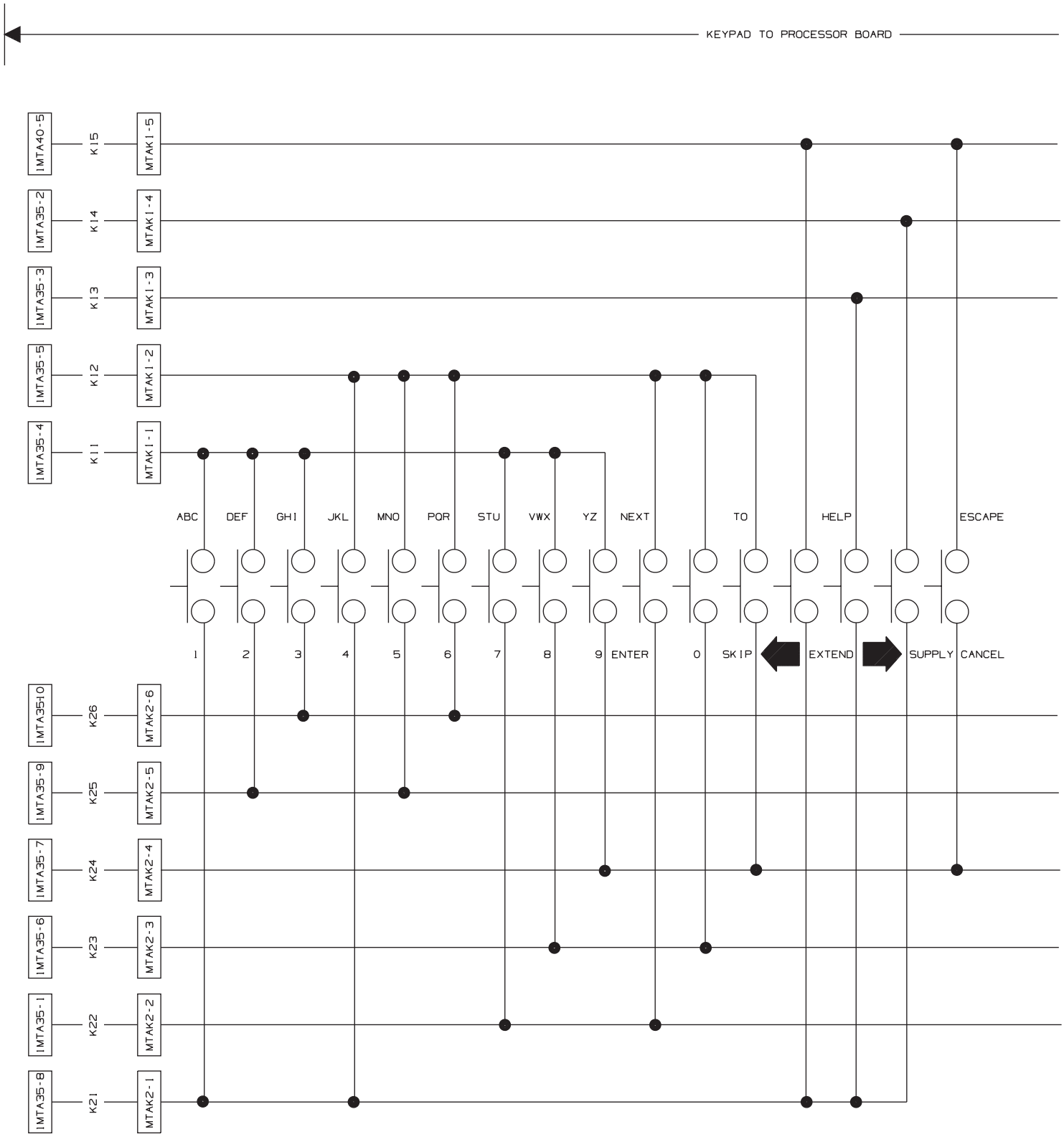
(SHEET 2 OF 2)

PELLERIN MILNOR CORPORATION

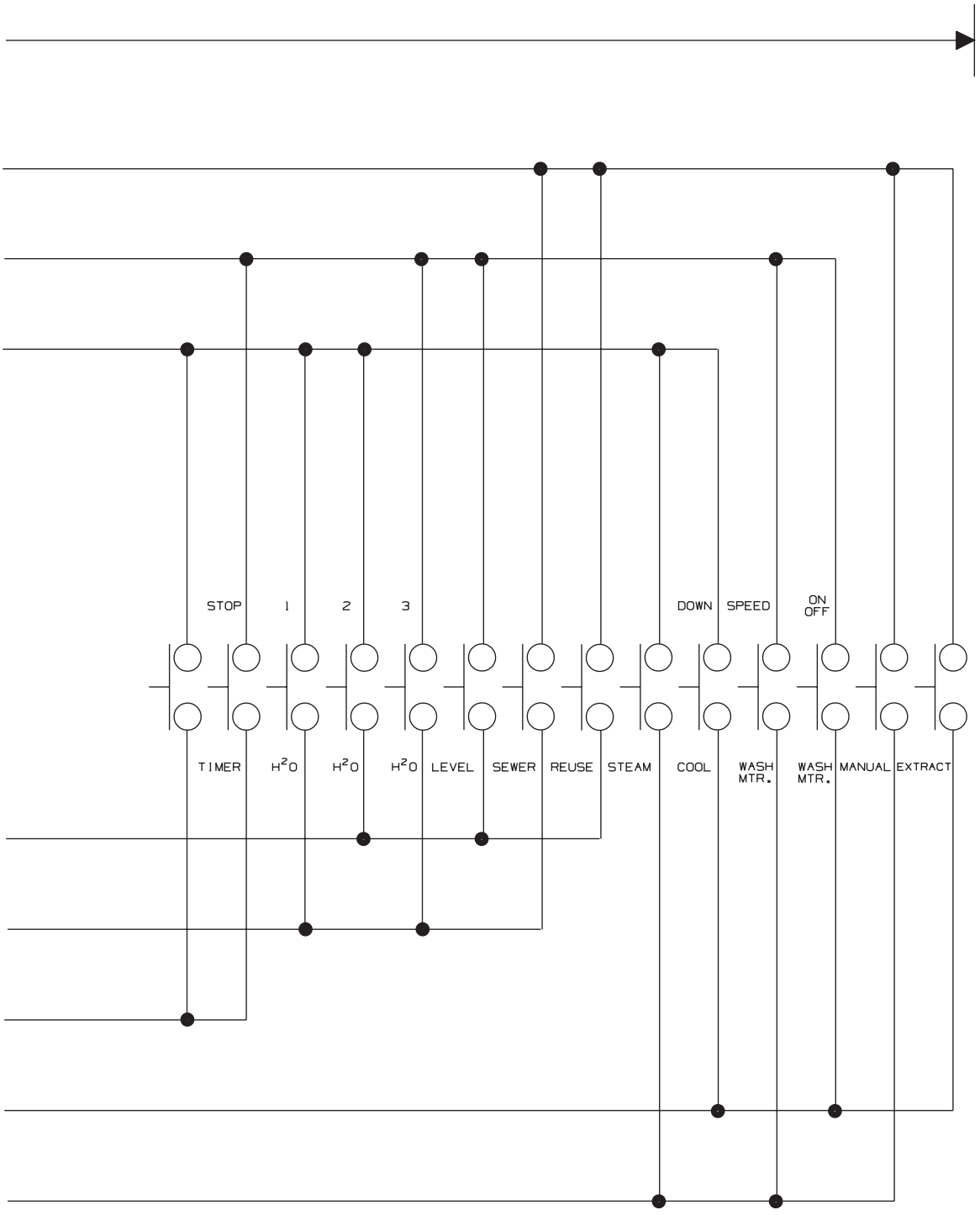


NOTES:

1. 1MTA3, 1MTA4 ARE LOCATED ON BIO-1 (8 OUTPUT - 16 INPUT).
2. 2MTA3 IS LOCATED ON BIO-2 (8 OUTPUT - 16 INPUT BOARD).



W6DXASKP
93361D

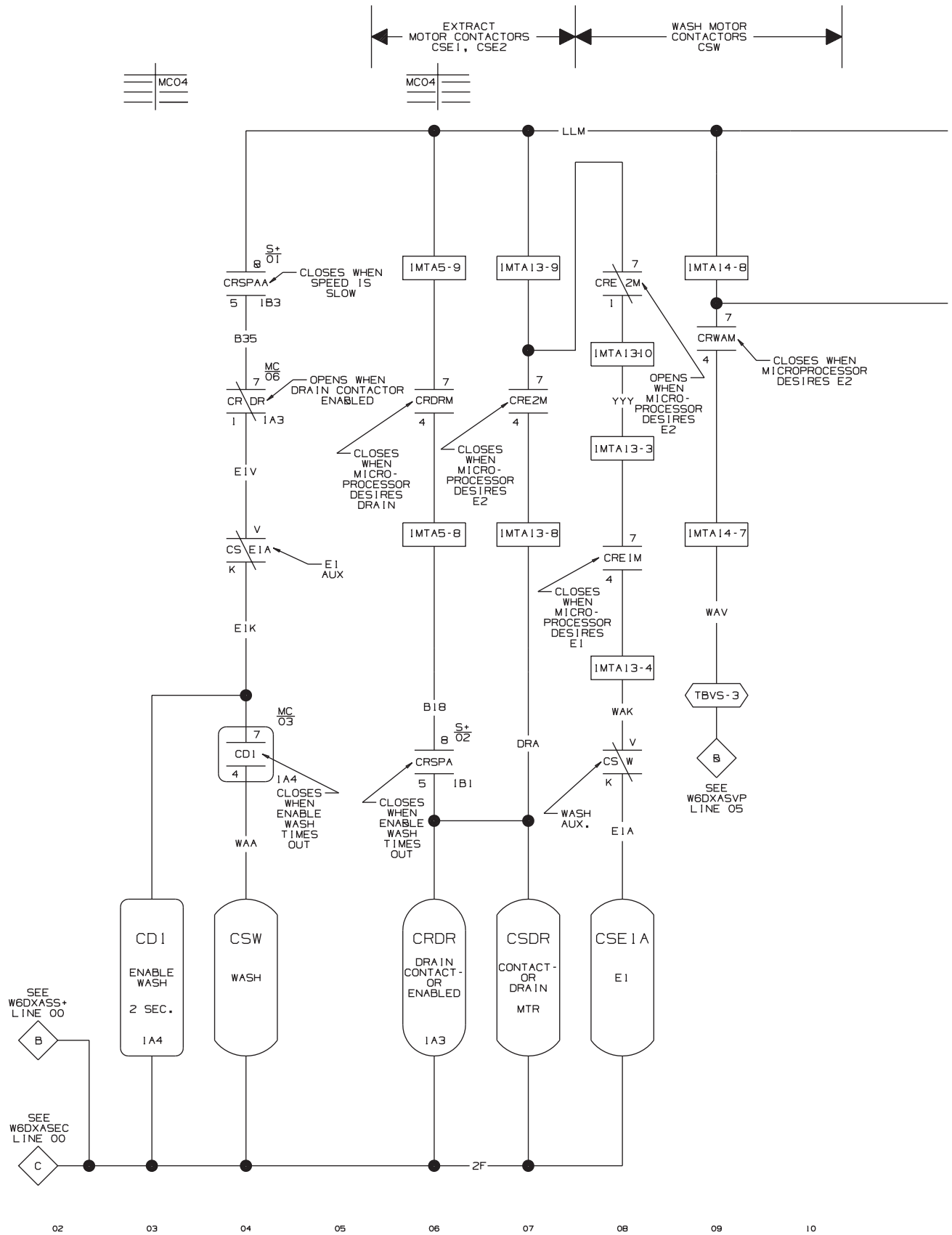


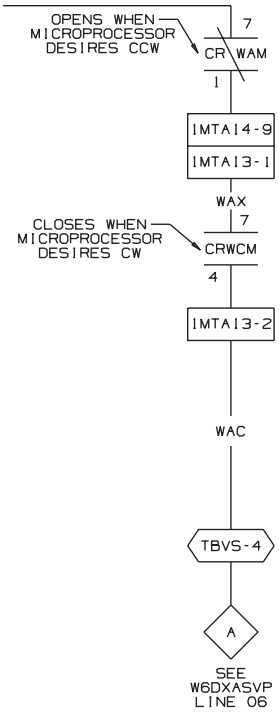
W6DXASKP
MARK II
MICRO 6 SYSTEMS
SERIAL CONTROLS
SCHEMATIC: KEYPAD
PELLERIN MILNOR CORPORATION

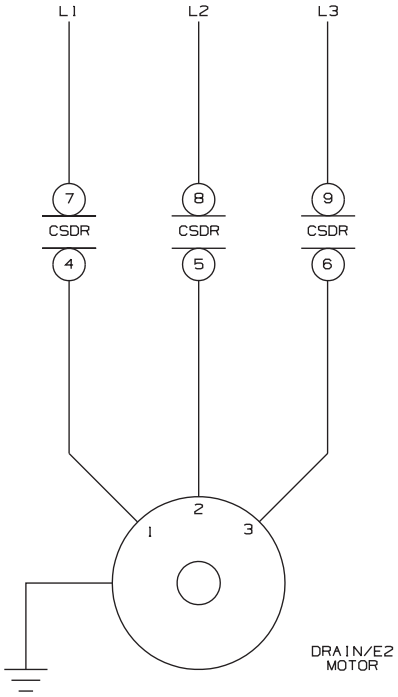
NOTES:

1. MTAK1 & MTAK2 ARE LOCATED ON KEYPAD.
2. 1MTA35 & 1MTA40 ARE LOCATED ON BPB (PROCESSOR BOARD).

11 12 13 14 15 16 17 18 19


EXTRACT MOTOR CONTACTORS CSE1, CSE2
WASH MOTOR CONTACTORS CSW
MC04
MC04
LLM
S+ 01
CRSPAA
CLOSES WHEN SPEED IS SLOW
1MTA5-9
1MTA13-9
CRE2M
1MTA14-8
CRWAM
CLOSES WHEN MICROPROCESSOR DESIRES E2
1MTA13-10
MC 06
CR DR
OPENS WHEN DRAIN CONTACTOR ENABLED
CRDRM
CRE2M
OPENS WHEN MICRO-PROCESSOR DESIRES E2
CLOSES WHEN MICRO-PROCESSOR DESIRES DRAIN
CLOSES WHEN MICRO-PROCESSOR DESIRES E2
1MTA13-3
E1V
1MTA5-8
1MTA13-8
1MTA14-7
CS E1A
E1 AUX
CREIM
CLOSES WHEN MICRO-PROCESSOR DESIRES E1
E1K
WAV
1MTA13-4
TBVS-3
MC 03
CD1
CLOSES WHEN ENABLE WASH TIMES OUT
S+ 02
CRSPA
CLOSES WHEN ENABLE WASH TIMES OUT
DRA
CS W
WASH AUX.
WAK
E1A
SEE W6DXASVP LINE 05
CD1 ENABLE WASH 2 SEC. 1A4
CSW WASH
CRDR DRAIN CONTACT-OR ENABLED 1A3
CSDR CONTACT-OR DRAIN MTR
CSE1A E1
SEE W6DXASS+ LINE 00
SEE W6DXASEC LINE 00
2F
00 01 02 03 04 05 06 07 08 09 10





W6DXASMC

MICRO 6 SYSTEMS
SERIAL CONTROLS

SCHEMATIC: DRIVE MOTOR CONTACTORS

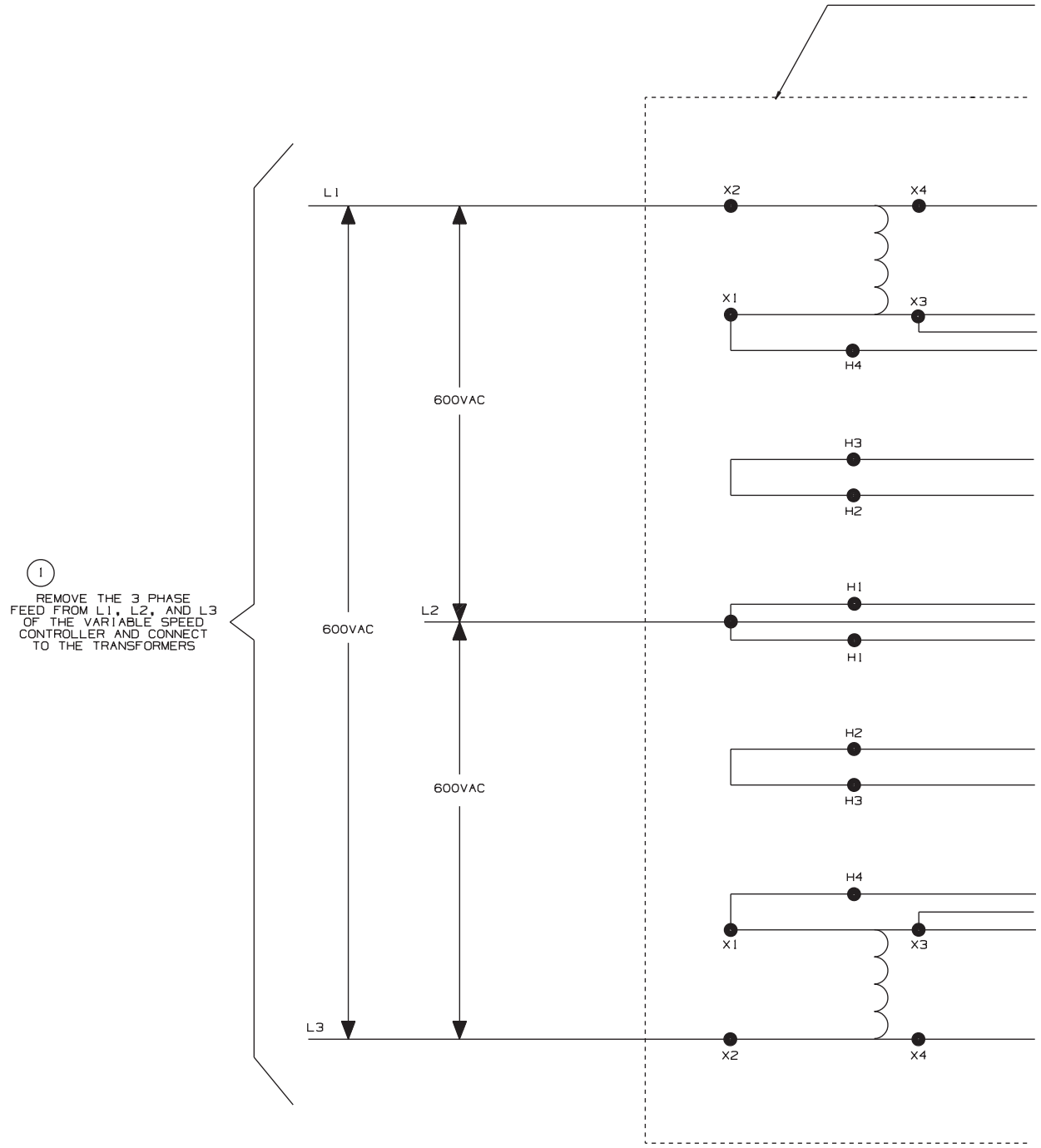
110V1P50HZ/120V1P60HZ

PELLERIN MILNOR CORPORATION

NOTES:

WASH/E1 MOTOR SHOWN
ON SCHEMATIC W6DXASVP

11 12 13 14 15 16 17 18 19



00 01 02 03 04 05 06 07 08 09 10 .

W6DXASMT6
93361D

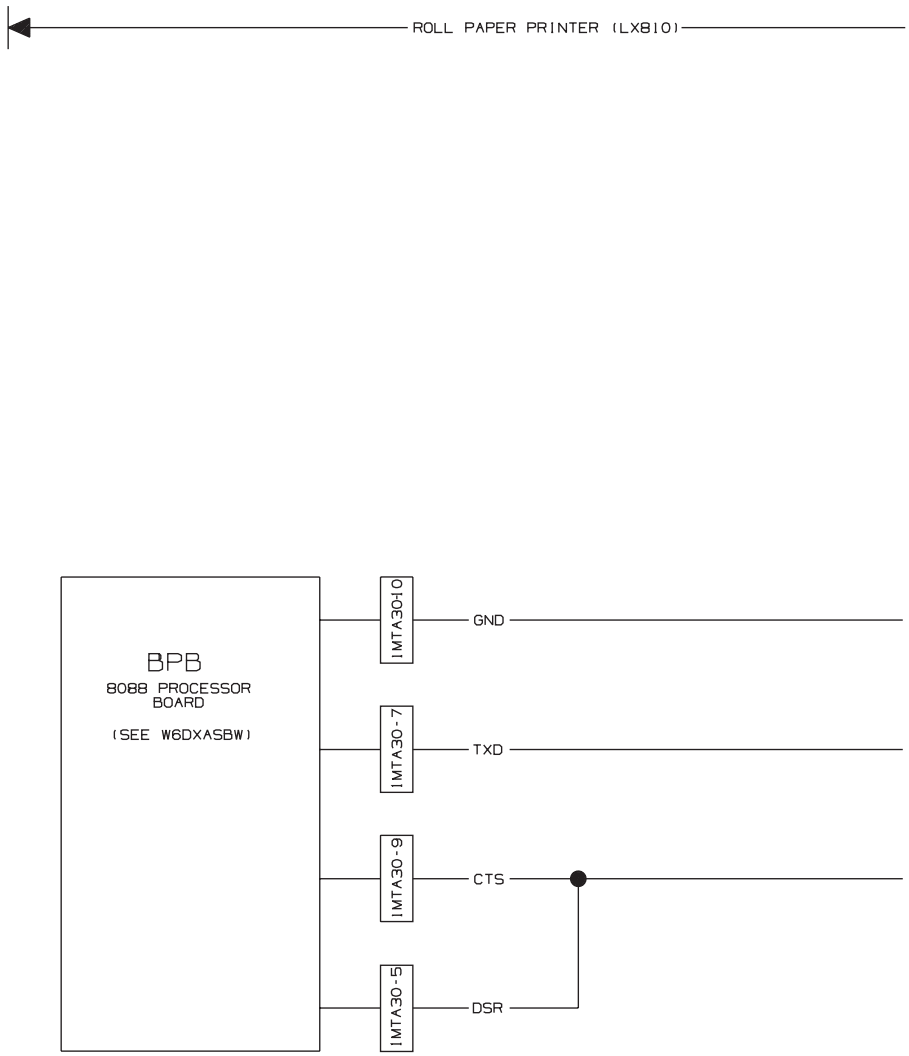
THESE ARE 2 TRANSFORMERS
WIRED IN AN OPEN DELTA
CONFIGURATION TO BUCK
FROM 600V3P TO 480V3P

W6DXASMT6

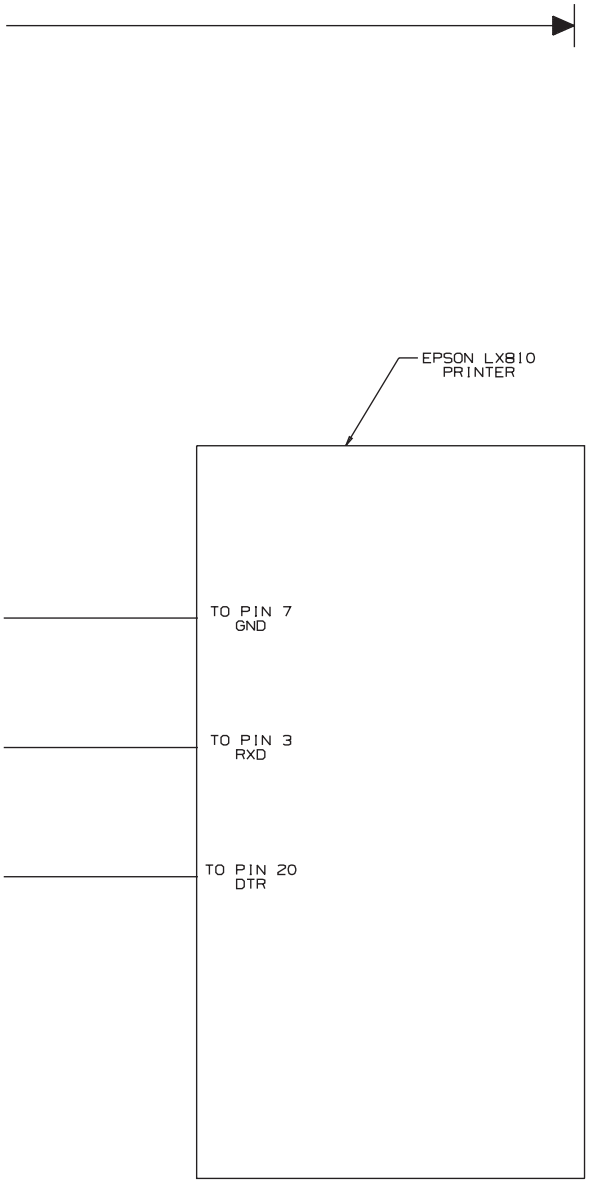
MICRO 6 SYSTEMS
SERIAL CONTROLS
SCHEMATIC: 600V DYE MACHINES
600V TO 480 VOLT STEP DOWN

PELLERIN MILNOR CORPORATION

11 12 13 14 15 16 17



00 01 02 03 04 05 06 08 09 10 11



SETTING FOR EPSON LX810
SERIAL INTERFACE BOARD
(#8143).

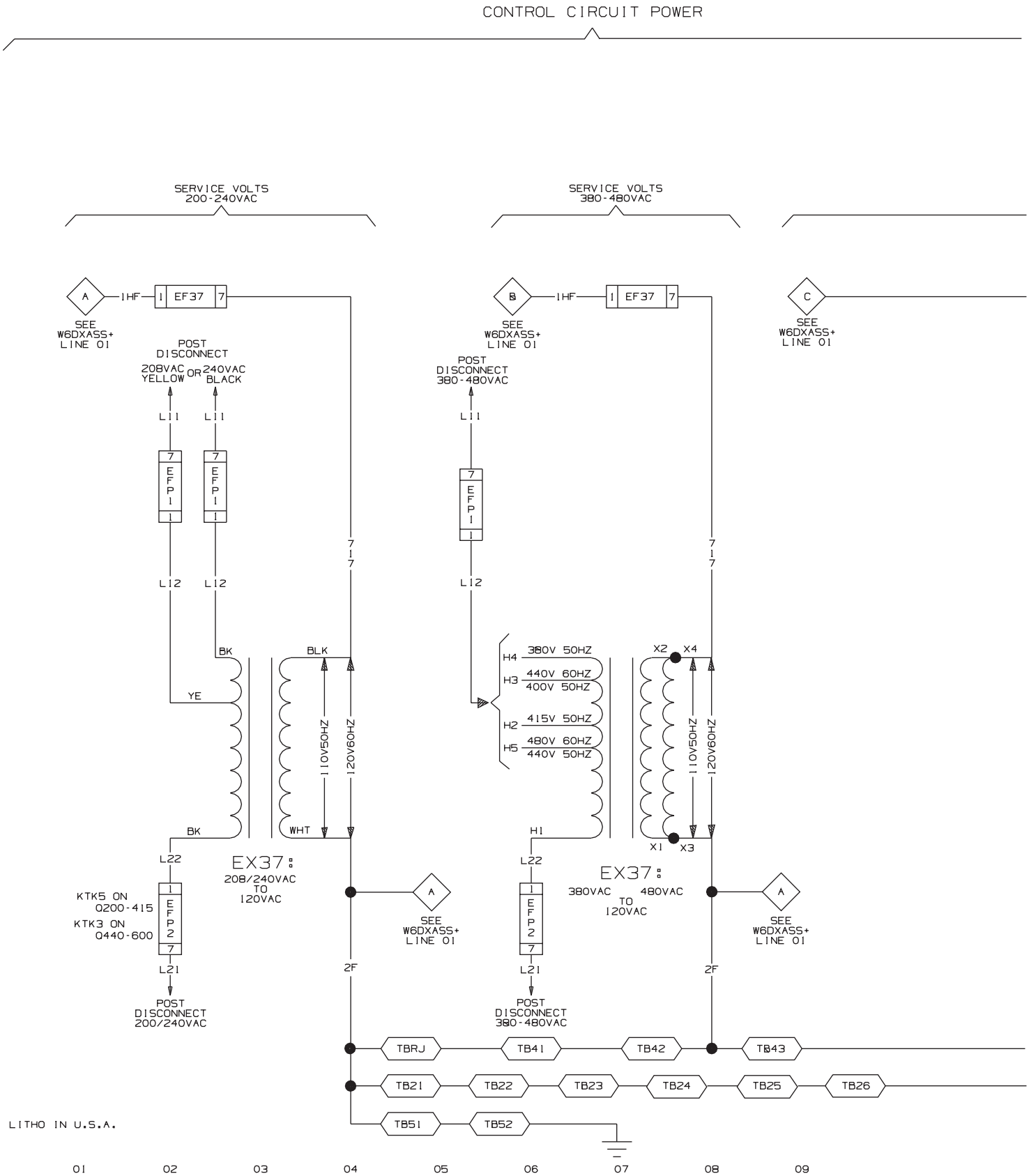
9600BAUD-8 BIT WORD LENGTH
EVEN PARITY 1 STOP BIT PARITY
CHECK ENABLED.

DIP SWITCH	
1	ON
2	OFF
3	OFF
4	OFF
5	ON
6	ON
7	OFF
8	ON

JUMPER SETTING
J1 = OFF
J2 = OFF
J3 = OFF
J4 = OFF
J5 = ON
JRS = ON
JC = OFF
JNOR = ON
JREV = OFF
JF = ON
JX = OFF

12 13 14 15 16 17 18

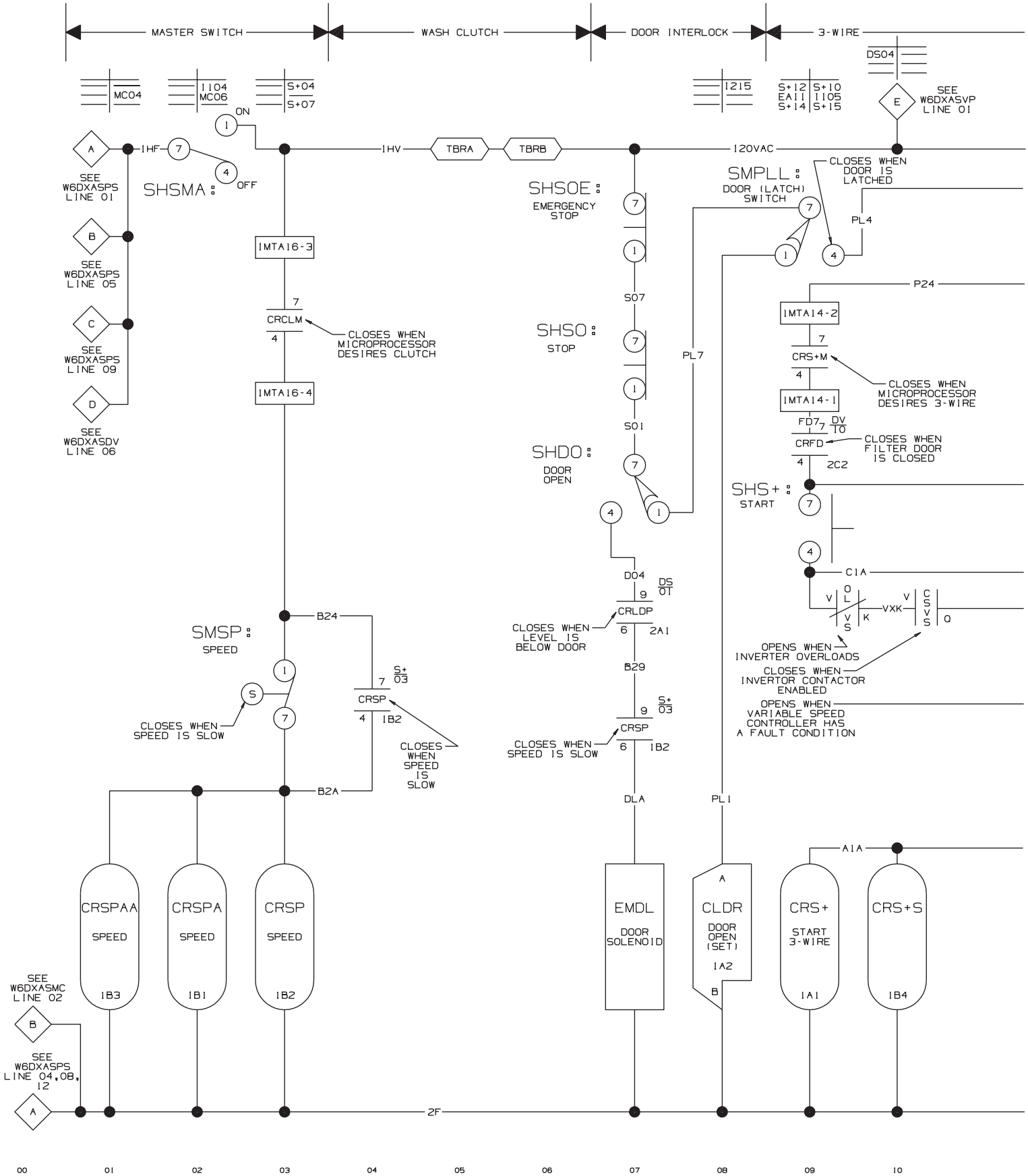
W6DXASPI
SCHEMATIC: PRINTER WIRING
PELLERIN MILNOR CORPORATION


CONTROL CIRCUIT POWER
SERVICE VOLTS 200-240VAC
SERVICE VOLTS 380-480VAC
A
B
C
1HF
1 EF37 7
SEE W6DXASS+ LINE 01
POST DISCONNECT
208VAC YELLOW OR 240VAC BLACK
POST DISCONNECT 380-480VAC
L11
L12
7 EFP1 1
7 1 7
BK
BLK
YE
WHT
H1
H2
H3
H4
H5
380V 50HZ
440V 60HZ
400V 50HZ
415V 50HZ
480V 60HZ
440V 50HZ
X1
X2
X3
X4
110V50HZ
120V60HZ
EX37:
208/240VAC TO 120VAC
380VAC 480VAC TO 120VAC
L22
L21
1 EFP2 7
KTK5 ON 0200-415
KTK3 ON 0440-600
2F
POST DISCONNECT 200/240VAC
POST DISCONNECT 380-480VAC
TBRJ
TB41
TB42
TB43
TB21
TB22
TB23
TB24
TB25
TB26
TB51
TB52
LITHO IN U.S.A.
00 01 02 03 04 05 06 07 08 09

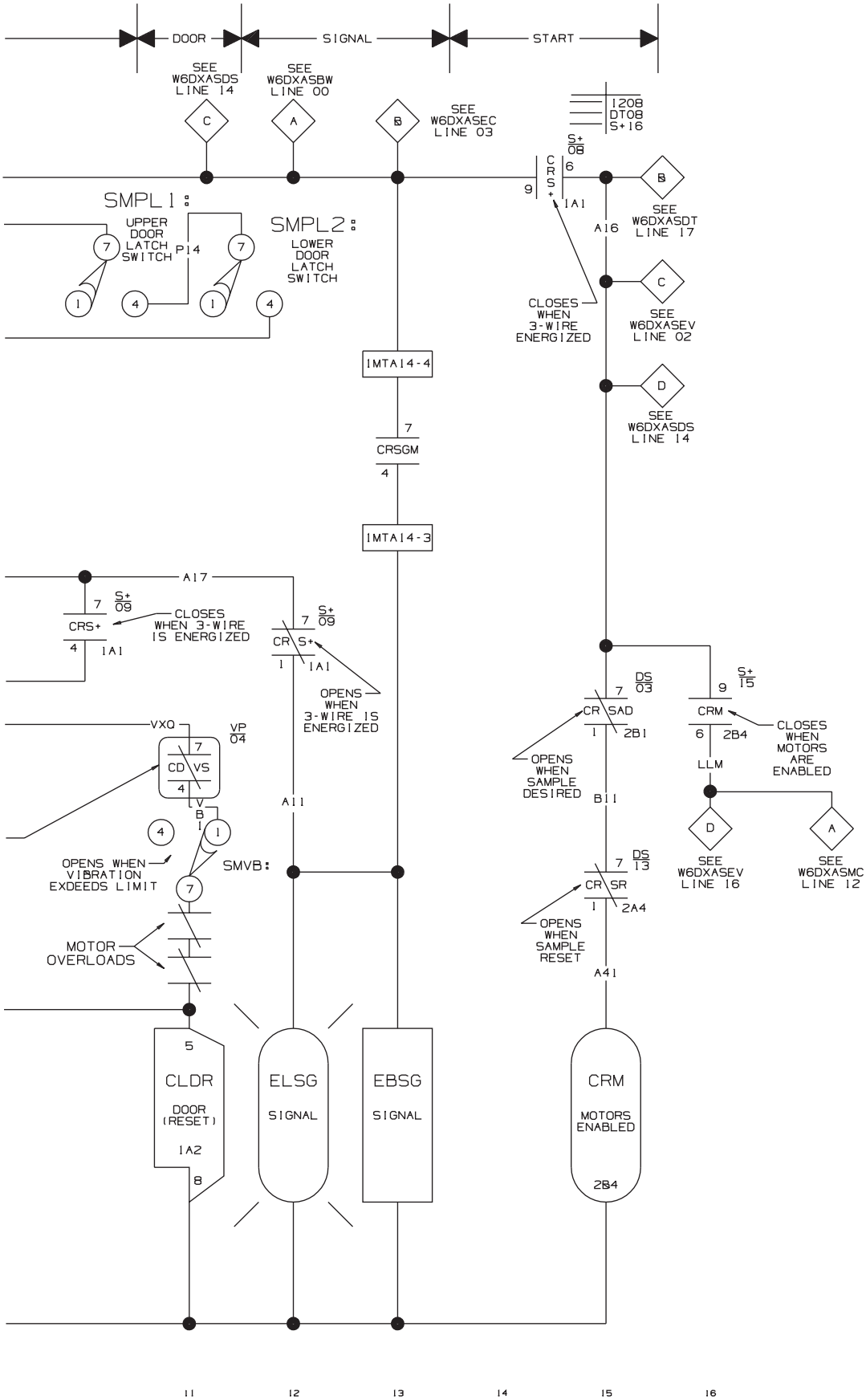
W6DXASPS
MICRO 6 SYSTEMS
SERIAL CONTROLS
SCHEMATIC: SOURCE 110V1P50HZ/120V1P60HZ
CONTROL CIRCUIT POWER
PELLERIN MILNOR CORPORATION

NOTES:

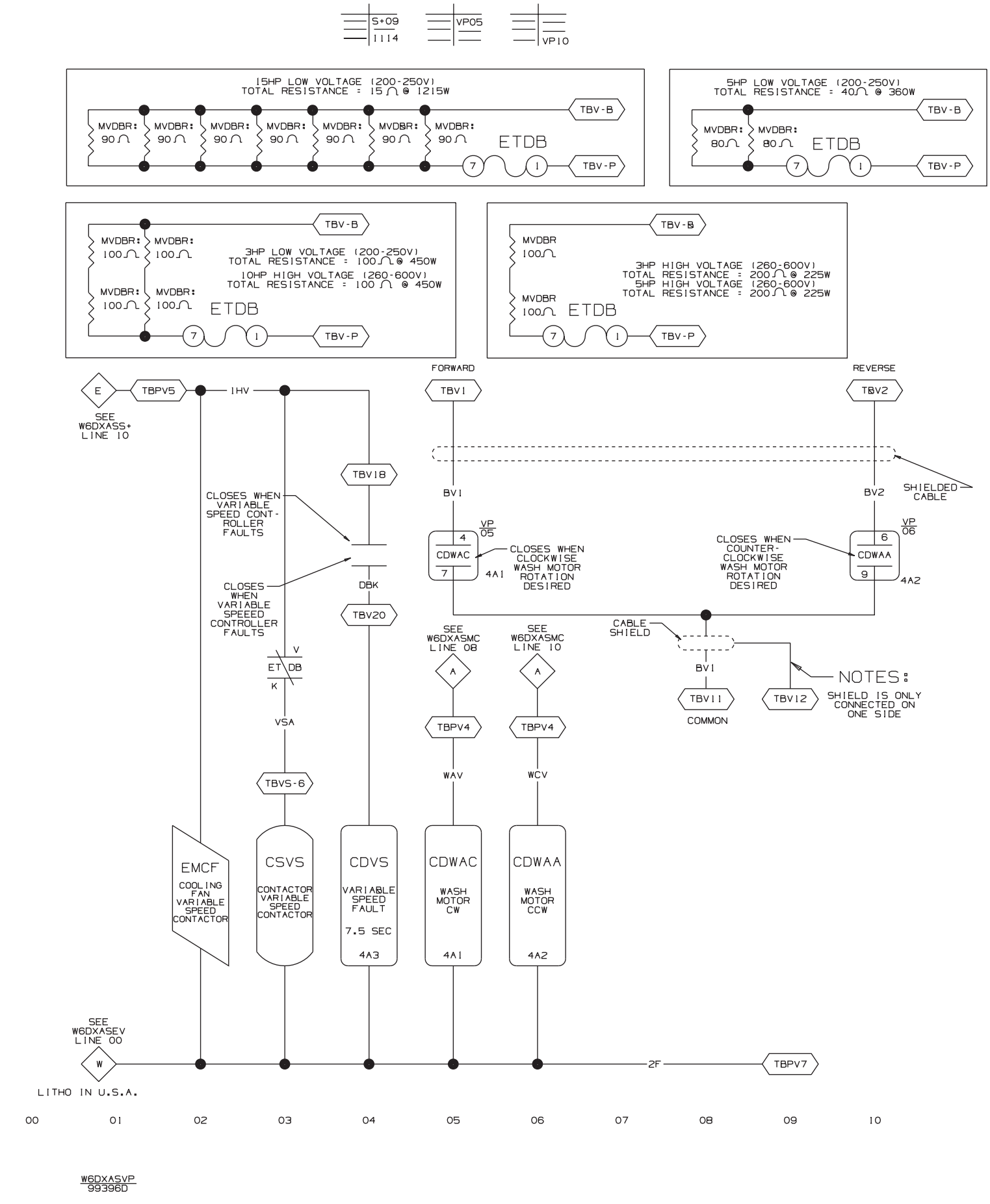
1. TBR AND TB4 (COPPER BUS BAR) ARE LOCATED IN THE LOW VOLTAGE CONTROL BOX.
2. TB2 AND TB5 (COPPER BUS BAR) ARE LOCATED IN THE HIGH VOLTAGE CONTROL BOX.



W6DXASS+
99396D

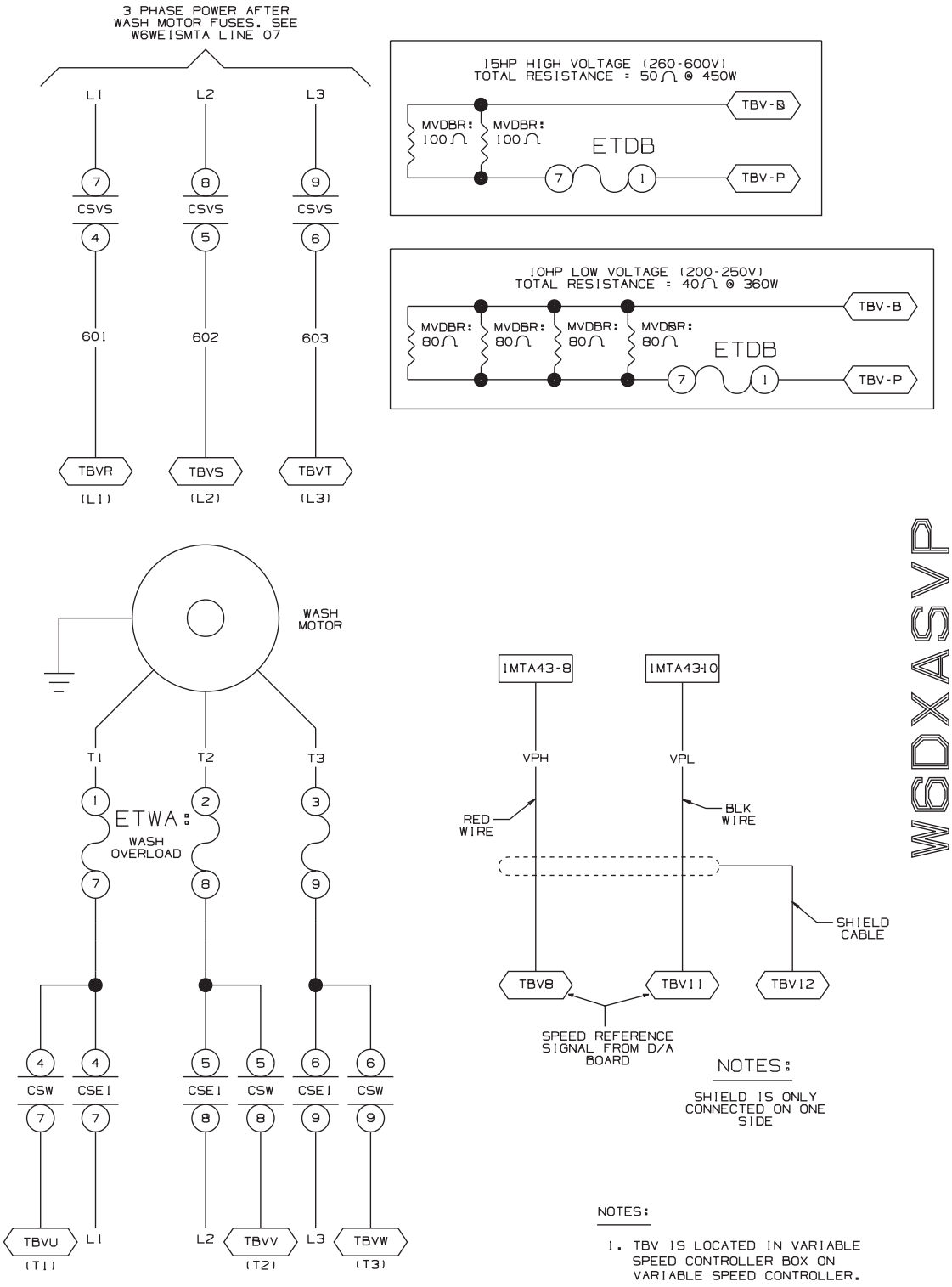


W6DXASS+
MICRO 6 SYSTEMS
SERIAL CONTROLS
SCHEMATIC: START CIRCUIT
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION



W6DXASVP
99396D

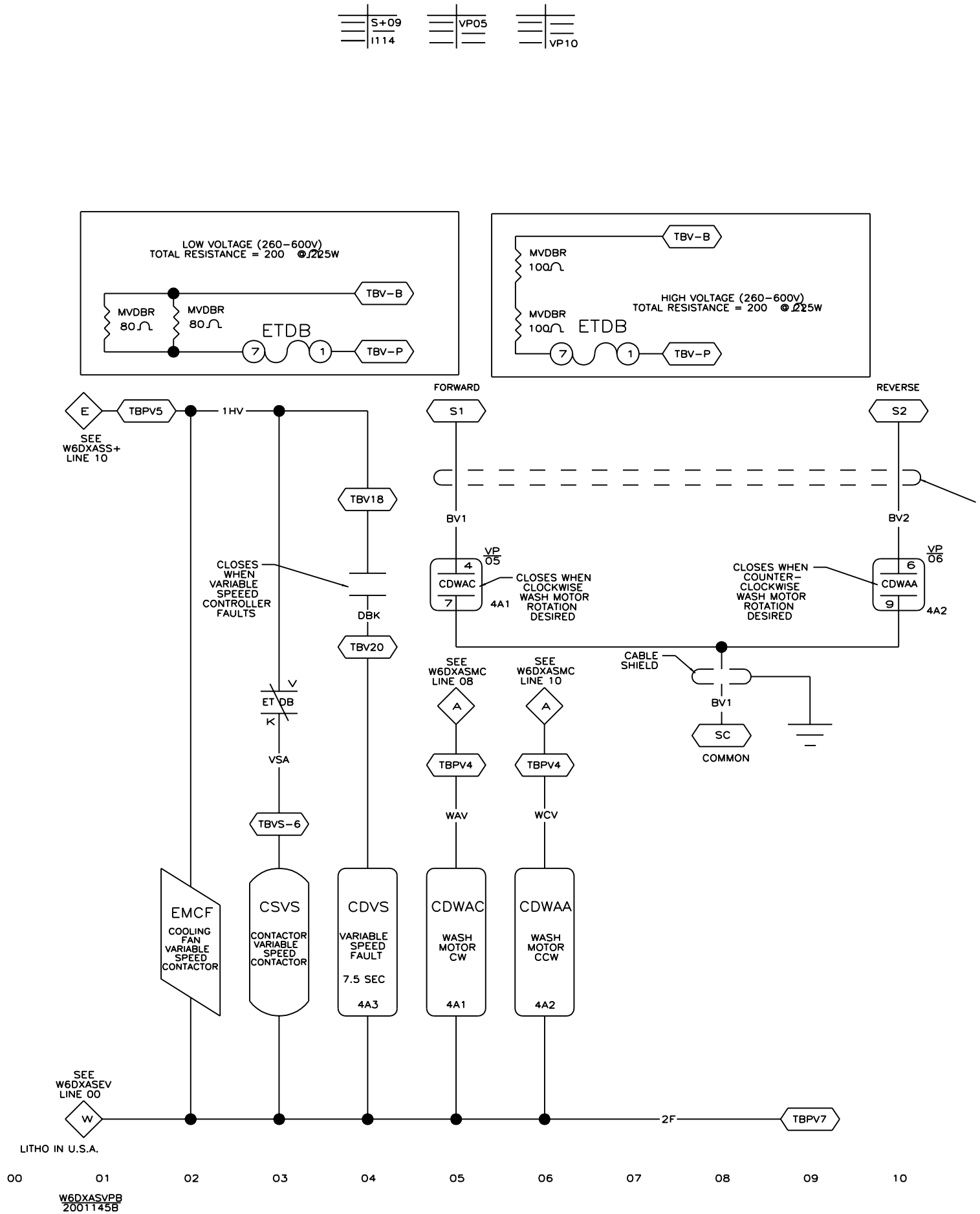
W6DXASVP
MARK II
SCHEMATIC: VARIABLE SPEED CONTROLLER
PELLERIN MILNOR CORPORATION

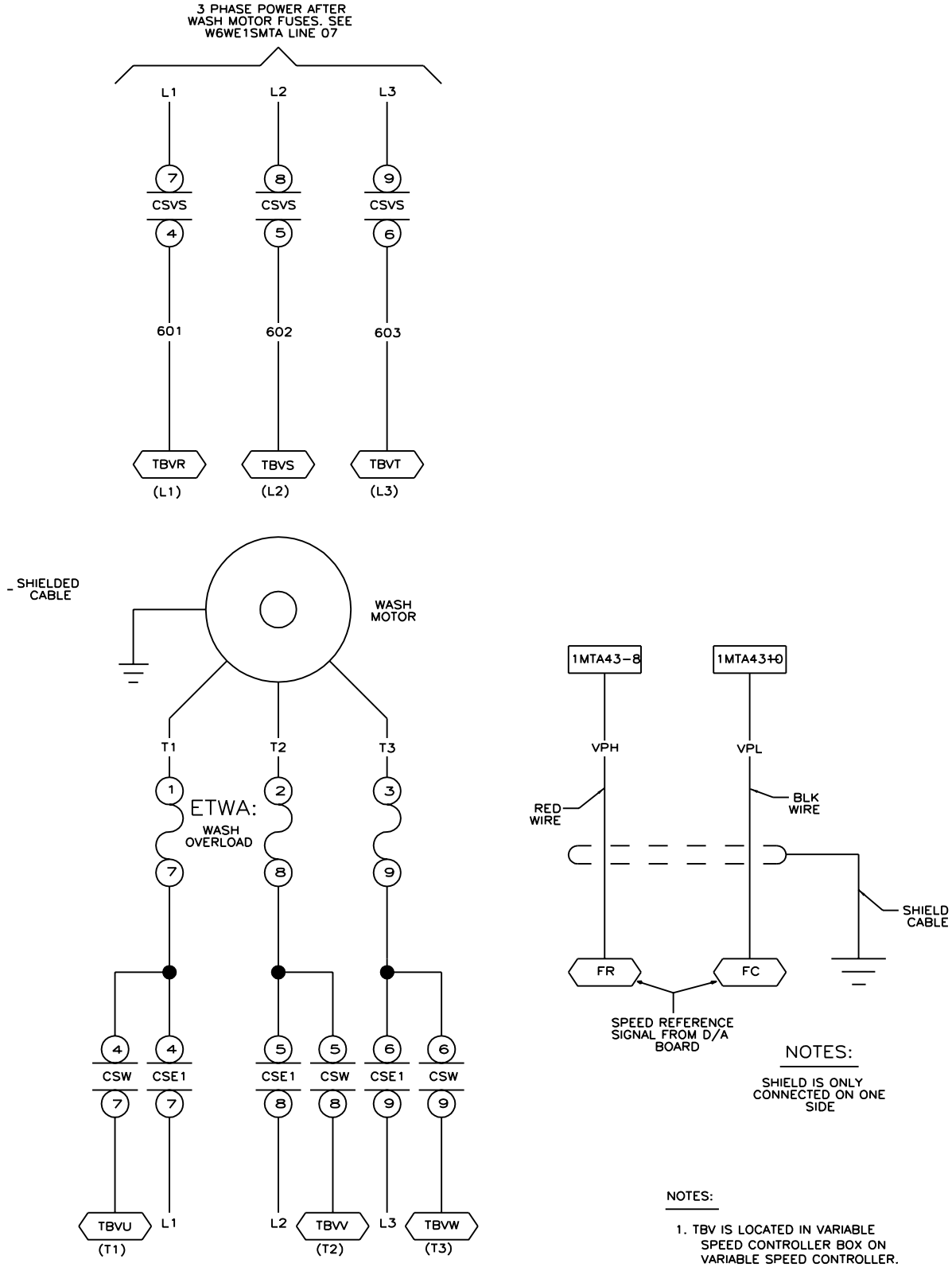


NOTES:

1. TBV IS LOCATED IN VARIABLE SPEED CONTROLLER BOX ON VARIABLE SPEED CONTROLLER.
2. TBVP IS LOCATED IN VARIABLE SPEED CONTROLLER BOX.
3. IMTA43 IS LOCATED ON BDA-1 (DIGITAL TO ANALOG BOARD).

11 12 13 14 15 16 17 18 19


S+09
I114
VP05
VP10
LOW VOLTAGE (260-600V)
TOTAL RESISTANCE = 200 Ω/225W
MVDBR
80Ω
MVDBR
80Ω
ETDB
7
1
TBV-B
TBV-P
HIGH VOLTAGE (260-600V)
TOTAL RESISTANCE = 200 Ω/225W
MVDBR
100Ω
MVDBR
100Ω
ETDB
FORWARD
REVERSE
S1
S2
E
TBPV5
1HV
SEE W6DXASS+ LINE 10
TBV18
DBK
TBV20
BV1
BV2
VP 05
VP 06
CDWAC
CDWAA
4A1
4A2
CLOSES WHEN VARIABLE SPEEED CONTROLLER FAULTS
CLOSES WHEN CLOCKWISE WASH MOTOR ROTATION DESIRED
CLOSES WHEN COUNTER-CLOCKWISE WASH MOTOR ROTATION DESIRED
CABLE SHIELD
SC
COMMON
V
ET DB
K
VSA
TBVS-6
SEE W6DXASMC LINE 08
SEE W6DXASMC LINE 10
A
TBPV4
WAV
WCV
EMCF
COOLING FAN VARIABLE SPEED CONTACTOR
CSVS
CONTACTOR VARIABLE SPEED CONTACTOR
CDVS
VARIABLE SPEED FAULT
7.5 SEC
4A3
CDWAC
WASH MOTOR CW
CDWAA
WASH MOTOR CCW
SEE W6DXASEV LINE 00
W
2F
TBPV7
LITHO IN U.S.A.
00
01
02
03
04
05
06
07
08
09
10
W6DXASVPB
2001145B



NOTES:

SHIELD IS ONLY CONNECTED ON ONE SIDE

NOTES:

1. TBV IS LOCATED IN VARIABLE SPEED CONTROLLER BOX ON VARIABLE SPEED CONTROLLER.
2. TBVP IS LOCATED IN VARIABLE SPEED CONTROLLER BOX.
3. 1MTA43 IS LOCATED ON BDA-1 (DIGITAL TO ANALOG BOARD).

W6DXASVPB

MARK II

SCHEMATIC: VARIABLE SPEED CONTROLLER GPD315

PELLERIN MILNOR CORPORATION

11 12 13 14 15 16 17 18 19