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**Read the
separate
safety
manual
before
installing,
operating,
or servicing**

Schematic/Electrical Parts

MultiTrac™

P.C. Device Master/

Linear Costa Master

Mark 5 Controls



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COMPONENT PARTS LIST

W6UT5PL/2019273N

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT</u>	<u>WHERE TO FIND THIS COMPONENT</u>	<u>MIL/NOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
	>>>CONTROL BOX LAYOUTS				
001	DETAIL-CONSOLE REAR W/O DEVICE MST	W6UT4TG1	B2T2002034	TAG: MULTITRAC REAR PANEL	CONSOLE REAR
002	DETAIL-CONSOLE FNT W/O DEVICE MST	W6UT4TG1	B2T2002035	TAG: MULTITRAC FRONT PANEL	CONSOLE FRNT
003	DETAIL-CONSOLE REAR W/ DEVICE MSTR	W6UT4TG2	B2T2002003	P.C.DEV MSTR CONSOLE REAR PNL	CONSOLE REAR
004	DETAIL-CONSOLE FNT W/ DEVICE MSTR	W6UT4TG2	B2T2002004	P.C.DEV MSTR CONSOLE FRNT PNL	CONSOLE REAR
005	DETAIL-BELT CONTACTOR BOX	W6UT4TG3	B2T2009010	TAG: SLAVE CONTACTOR BOX	BELT C-BOX
006	DETAIL-BELT CONTACTOR BOX	W6UT4TG3	B2T2009011	MASTER CONTACT BOX CONVEY	BELT C-BOX
007	DETAIL-BELT CONTACTOR BOX	W6UT4TG3	B2T2011001	CONVEYOR CONTACTOR BOX (MASTER)	BELT C-BOX
008	DETAIL-BELT CONTACTOR BOX	W6UT4TG3	B2T2011002	CONVEYOR CONTACTOR BOX (SLAVE)	BELT C-BOX
BA	>>BOARDS				
BIO-1	BOARD-8OUTPUT/16INPUT #1	W6DM4BWB	08BS816CT	BD: SERIAL 8OJT-16INPUT-TEST	CARD CAGE
BIO-16	BOARD-8OUTPUT/16INPUT	W6DM4EB	08BS816CT	BD: SERIAL 8OJT-16INPUT-TEST	CARD CAGE
BIO-2	BOARD-8OUTPUT/16INPUT #2	W6DM4BWB	08BS816CT	BD: SERIAL 8OJT-16INPUT-TEST	CARD CAGE
BIO-5	BOARD-8OUTPUT/16INPUT #3	W6DM4FD	08BS816CT	BD: SERIAL 8OJT-16INPUT-TEST	CARD CAGE
BMTH-1	BOARD-8 CARD MOTHER	W6DM5CB2	08BS8MTHAT	BD: SERIAL 8 CARD MOTHER-TEST	CARD CAGE
BO24-1	BOARD-24 OUTPUT BOARD	W6DM4LW	08BSO24AT	BD: SERIAL 24 OUTPUT->TEST	CARD CAGE
BO24-10	BOARD-24 OUTPUT DEVICE FINISHED DISCH	W6DM4DF	08BSO24AT	BD: SERIAL 24 OUTPUT->TEST	CARD CAGE
BO24-2	BOARD-24 OUTPUT DATA PASS	W6DM4DP	08BSO24AT	BD: SERIAL 24 OUTPUT->TEST	CARD CAGE
BO24-2	BOARD-24 OUTPUT DATA PASS	W6DM4DW	08BSO24AT	BD: SERIAL 24 OUTPUT->TEST	CARD CAGE
BO24-5	BOARD-24 OUTPUT	W6DM5CB2	08BSO24AT	BD: SERIAL 24 OUTPUT->TEST	CARD CAGE
BPB	BOARD-186 MICROPROCESSOR	W6DM4BWB	08BSPE1T	186 SER PROC-TEST	CONTROLLER BX
BPC	COMPUTER-MULTI-TRAC	W6UT4MT	ECBW11SSPC	PC-SIEMANS PC WITH SERIAL CARD	CONSOLE TOP
BPC	COMPUTER-MULTI-TRAC	W6UT4MTA	ECBW12SSPC	ASSY SIMATIC IPC427C W/ SERIAL CARD	CONSOLE TOP
CD	>>RELAY-TIME DELAY				
CD1	DELAY-DEVICE ACCEPTS LOAD	W6DM4AD	09CF016037	TDR F16S 2PDT 11PIN 120V50/60C	CONTROL BOX
CDL	DELAY-BELT LOADED	W6DM4SB	09CF002037	TDR F2S 2PDT 11PIN 120V60/50C	CONTROLLER BX
CLL	LATCH-BELT DESIRES LOAD	W6DM4AD	09CL2C-C37	RELAY-LATCH DPDT 120V 2-COIL	CONTROL BOX
CP	>>PHOTOEYES				
CHCHP	PHOTOEYE-COHPR LOADED	WINSFR1B	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	BELT CONTROLR
CPPEF	PHOTOEYE-DISCHARGE END OF BELT	W6DM4FP	09RPE004	SENSOR DARK OPERATE AC N/O-OUT	LOADING BELT
CPPEF	PHOTOEYE-FORWARD	W6DM4SB	09RPE004	SENSOR DARK OPERATE AC N/O-OUT	ON BELT
CPPEF	PHOTOEYE-BELT 1 DISCHARGE-FWR	WINSFR1A	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT
CPPER	PHOTOEYE-BELT 1 LOAD-REV	WINSFR1A	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT

COMPONENT PARTS LIST

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT</u>	<u>WHERE TO FIND THIS COMPONENT</u>		<u>MILNOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
CPPEF0	PHOTOEYE-BELT 0 FORWARD	W6DM4FR0	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPEF1	PHOTOEYE-BELT 1 FORWARD	W6DM4FR1	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPEF2	PHOTOEYE-BELT 2 FORWARD	W6DM4FR2	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPEF3	PHOTOEYE-BELT 3 FORWARD	W6DM4FR3	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPEF4	PHOTOEYE-BELT 4 FORWARD	W6DM4FR4	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPEF5	PHOTOEYE-BELT 5 FORWARD	W6DM4FR5	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPEF6	PHOTOEYE-BELT 6 FORWARD	W6DM4FR6	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPEF7	PHOTOEYE-BELT 7 FORWARD	W6DM4FR7	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPEF8	PHOTOEYE-BELT 8 FORWARD	W6DM4FR8	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPEF9	PHOTOEYE-BELT 9 FORWARD	W6DM4FR9	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPEFA	PHOTOEYE-BELT A FORWARD	W6DM4FRA	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPEFB	PHOTOEYE-BELT B FORWARD	W6DM4FRB	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPEFC	PHOTOEYE-BELT C FORWARD	W6DM4FRC	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPEFD	PHOTOEYE-BELT D FORWARD	W6DM4FRD	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPEFE	PHOTOEYE-BELT E FORWARD	W6DM4FRE	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPEFF	PHOTOEYE-BELT F FORWARD	W6DM4FRF	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPER0	PHOTOEYE-BELT 0 REVERSE	W6DM4FR0	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPER1	PHOTOEYE-BELT 1 REVERSE	W6DM4FR1	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPER2	PHOTOEYE-BELT 2 REVERSE	W6DM4FR2	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPER3	PHOTOEYE-BELT 3 REVERSE	W6DM4FR3	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPER4	PHOTOEYE-BELT 4 REVERSE	W6DM4FR4	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPER5	PHOTOEYE-BELT 5 REVERSE	W6DM4FR5	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPER6	PHOTOEYE-BELT 6 REVERSE	W6DM4FR6	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPER7	PHOTOEYE-BELT 7 REVERSE	W6DM4FR7	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPER8	PHOTOEYE-BELT 8 REVERSE	W6DM4FR8	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPER9	PHOTOEYE-BELT 9 REVERSE	W6DM4FR9	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPERA	PHOTOEYE-BELT A REVERSE	W6DM4FRA	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPERB	PHOTOEYE-BELT B REVERSE	W6DM4FRB	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPERC	PHOTOEYE-BELT C REVERSE	W6DM4FRC	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPERD	PHOTOEYE-BELT D REVERSE	W6DM4FRD	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPERE	PHOTOEYE-BELT E REVERSE	W6DM4FRE	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPERF	PHOTOEYE-BELT F REVERSE	W6DM4FRF	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	END OF BELT	
CPPSB5	PHOTOEYE-FEEDER BELT #5	W6DM4FS5	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	FEEDER BELT	

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W6UT5PL/2019273N

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CPPSB6	PHOTOEYE-FEEDER BELT #6	W6DM4FS6	09RPE011	PHOTOEYE VALU-BEAM 10-30DC	FEEDER BELT
CPRD	PHOTOEYE-DISCHARGE END	W6DM4AD	09RPE004	SENSOR DK.OPR.AC N/O-OUT	SIDE OF BELT
CR	>>RELAY-PILOT OR CONTROL				
CRCBK	RELAY-CAKE BREAKER	W6DM5CB1	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRCD	RELAY-MOVE COHORP DISCHARGE	WINSFR1B	09C024D37	4PDT "KH" 110/120V	BELT CONTROLR
CRCH	RELAY-MOVE COHORP HOME	WINSFR1B	09C024D37	4PDT "KH" 110/120V	BELT CONTROLR
CRCHP	RELAY-COORP LOADED	WINSFR1B	09C024E24	RELAY 4PDT DIFGLD 14PIN 24DC	BELT CONTROLR
CRD	RELAY-DISCHARGE END BLOCKED	W6DM4AD	09C01DDDD37	RELAY-3PDT DIFGOLD 11PIN 120VAC	CONTROL BOX
CRD	RELAY-DATA VALID BELT LOADED	W6DM4FQ	09C024D37	4PDT "KH" 110/120V	LOADING BELT
CRD	RELAY-DATA VALID	W6DM4SB	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRD	RELAY-COORP AT DISCHARGE	WINSFR1B	09C024D37	4PDT "KH" 110/120V	BELT CONTROLR
CRDL	RELAY-BELT DESIRES LOAD	W6DM4FQ	09C024D37	4PDT "KH" 110/120V	LOADING BELT
CRDS	RELAY-DATA VALID BELT LOADED	W6DM4FQ	09C024D37	4PDT "KH" 110/120V	LOADING BELT
CRFL	RELAY-BELT FINISHED UNLOADING	W6DM4SB	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRH	RELAY-COORP IS HOME	WINSFR1B	09C024D37	4PDT "KH" 110/120V	BELT CONTROLR
CRL	RELAY-BELT IS LOADED	W6DM4FQ	09C024D37	4PDT "KH" 110/120V	LOADING BELT
CRLLS	RELAY-BELT IS LOADED	W6DM4FQ	09C024D37	4PDT "KH" 110/120V	LOADING BELT
CRLM	RELAY-DESIRES LOAD	W6DM4FQ	09C024D37	4PDT "KH" 110/120V	LOADING BELT
CRLP	RELAY-BELT IN LOAD POSITION	W6DM4FQ	09C024D37	4PDT "KH" 110/120V	LOADING BELT
CRM	RELAY-MANUAL ENABLE	W6DM4FQ	09C024D37	4PDT "KH" 110/120V	LOADING BELT
CRMS	RELAY-MANUAL ENABLE	W6DM4FQ	09C024D37	4PDT "KH" 110/120V	LOADING BELT
CRPEF	RELAY-DISCHARGE END OF BELT	W6DM4FP	09C024D37	4PDT "KH" 110/120V	LOADING BELT
CRPEF	RELAY-FORWARD PHOTOEYE	W6DM4SB	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRPEF	RELAY-DISCHARGE PHOTOEYE BELT 1	WINSFR1A	09C024E24	RELAY 4PDT DIFGLD 14PIN 24DC	BELT CONTROLR
CRRBF0	RELAY-RUN BELT 0 FORWARD	W6DM4FR0	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBF1	RELAY-RUN BELT 1 FORWARD	W6DM4FR1	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBF2	RELAY-RUN BELT 2 FORWARD	W6DM4FR2	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBF3	RELAY-RUN BELT 3 FORWARD	W6DM4FR3	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBF4	RELAY-RUN BELT 4 FORWARD	W6DM4FR4	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBF5	RELAY-RUN BELT 5 FORWARD	W6DM4FR5	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBF6	RELAY-RUN BELT 6 FORWARD	W6DM4FR6	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBF7	RELAY-RUN BELT 7 FORWARD	W6DM4FR7	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBF8	RELAY-RUN BELT 8 FORWARD	W6DM4FR8	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX

COMPONENT PARTS LIST

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CRRBF9	RELAY-RUN BELT 9 FORWARD	W6DM4FR9	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBFA	RELAY-RUN BELT A FORWARD	W6DM4FRA	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBFB	RELAY-RUN BELT B FORWARD	W6DM4FRB	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBFC	RELAY-RUN BELT C FORWARD	W6DM4FRC	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBFD	RELAY-RUN BELT D FORWARD	W6DM4FRD	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBFE	RELAY-RUN BELT E FORWARD	W6DM4FRE	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBFF	RELAY-RUN BELT F FORWARD	W6DM4FRF	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBR0	RELAY-RUN BELT 0 REVERSE	W6DM4FR0	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBR1	RELAY-RUN BELT 1 REVERSE	W6DM4FR1	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBR2	RELAY-RUN BELT 2 REVERSE	W6DM4FR2	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBR3	RELAY-RUN BELT 3 REVERSE	W6DM4FR3	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBR4	RELAY-RUN BELT 4 REVERSE	W6DM4FR4	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBR5	RELAY-RUN BELT 5 REVERSE	W6DM4FR5	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBR6	RELAY-RUN BELT 6 REVERSE	W6DM4FR6	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBR7	RELAY-RUN BELT 7 REVERSE	W6DM4FR7	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBR8	RELAY-RUN BELT 8 REVERSE	W6DM4FR8	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBR9	RELAY-RUN BELT 9 REVERSE	W6DM4FR9	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBRA	RELAY-RUN BELT AREVERSE	W6DM4FRA	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBRB	RELAY-RUN BELT B REVERSE	W6DM4FRB	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBRC	RELAY-RUN BELT C REVERSE	W6DM4FRC	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBRD	RELAY-RUN BELT D REVERSE	W6DM4FRD	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBRE	RELAY-RUN BELT E REVERSE	W6DM4FRE	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRRBRF	RELAY-RUN BELT F REVERSE	W6DM4FRF	09C024D37	4PDT "KH" 110/120V	CONTROLLER BX
CRS+	RELAY-3-WIRE	W6DM4AD	09C01DDDD37	RELAY-3PDT DIFGOLD 11PIN 120VAC	CONTROL BOX
CRS+	RELAY-3-WIRE	W6DM4FQ	09C024D37	4PDT "KH" 110/120V	LOADING BELT
CRS+	RELAY-3-WIRE	W6DM4S+	09C024D37	4PDT "KH" 110/120V	CONSOLE REAR
CRS+	RELAY-3-WIRE	WINSFR1A	09C024D37	4PDT "KH" 110/120V	BELT CONTROLR
CRSB5	RELAY-FEEDER BELT #5 BLOCKED	W6DM4FS5	09C024D37	4PDT "KH" 110/120V	FEEDER BELT
CRSB6	RELAY-FEEDER BELT #6 BLOCKED	W6DM4FS6	09C024D37	4PDT "KH" 110/120V	FEEDER BELT
CRSG	RELAY-SIGNAL	W6DM4S+	09C024D37	4PDT "KH" 110/120V	CONSOLE REAR
CRT	>>>ELECTRONIC MONITORS				
CRT-1	MONITOR-MICROPROCESSOR	W6UT4MT	08MN20UXGA	22.1 LCD, ANALOG/DIGITAL BLACK	CONSOLE TOP
CRT-1	MONITOR-MICROPROCESSOR	W6UT4MTA	08MN23TVGA	23"LCD BMIDH TOUCHSCREEN	CONSOLE TOP

COMPONENT PARTS LIST

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT</u>	<u>WHERE TO FIND THIS COMPONENT</u>	<u>MIL/NOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
CRUP	RELAY-BELT IN UNLOAD POSITION	W6DM4FQ	09C01DDDD37	RELAY 3PDT DIFGOLD 11PIN 120VAC	LOADING BELT
CS	>>CONTACTOR-MOTOR STARTER				
CSBF	CONTACTOR-BELT FORWARD	W6DM4AD	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BOX
CSBR	CONTACTOR-BELT REVERSE	W6DM4AD	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BOX
CSRBF	CONTACTOR-RUN LOADING BELT	W6DM4FP	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBF	CONTACTOR-RUN FORWARD	W6DM4SB	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBF	CONTACTOR-RUN FORWARD	WINSFR1A	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	BELT CONTROLR
CSRBF0	CONTACTOR-RUN BELT 0 FORWARD	W6DM4FR0	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBF1	CONTACTOR-RUN BELT 1 FORWARD	W6DM4FR1	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBF2	CONTACTOR-RUN BELT 2 FORWARD	W6DM4FR2	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBF3	CONTACTOR-RUN BELT 3 FORWARD	W6DM4FR3	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBF4	CONTACTOR-RUN BELT 4 FORWARD	W6DM4FR4	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBF5	CONTACTOR-RUN BELT 5 FORWARD	W6DM4FR5	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBF6	CONTACTOR-RUN BELT 6 FORWARD	W6DM4FR6	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBF7	CONTACTOR-RUN BELT 7 FORWARD	W6DM4FR7	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBF8	CONTACTOR-RUN BELT 8 FORWARD	W6DM4FR8	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBF9	CONTACTOR-RUN BELT 9 FORWARD	W6DM4FR9	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBF A	CONTACTOR-RUN BELT A FORWARD	W6DM4FRA	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBF B	CONTACTOR-RUN BELT B FORWARD	W6DM4FRB	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBF C	CONTACTOR-RUN BELT C FORWARD	W6DM4FRC	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBF D	CONTACTOR-RUN BELT D FORWARD	W6DM4FRD	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBF E	CONTACTOR-RUN BELT E FORWARD	W6DM4FRE	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBF F	CONTACTOR-RUN BELT F FORWARD	W6DM4FRF	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBR	CONTACTOR-RUN LOADING BELT	W6DM4FP	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBR	CONTACTOR-RUN REVERSE	W6DM4SB	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBR	CONTACTOR-RUN REVERSE	WINSFR1A	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	BELT CONTROLR
CSRBR0	CONTACTOR-RUN BELT 0 REVERSE	W6DM4FR0	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBR1	CONTACTOR-RUN BELT 1 REVERSE	W6DM4FR1	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBR2	CONTACTOR-RUN BELT 2 REVERSE	W6DM4FR2	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBR3	CONTACTOR-RUN BELT 3 REVERSE	W6DM4FR3	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBR4	CONTACTOR-RUN BELT 4 REVERSE	W6DM4FR4	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBR5	CONTACTOR-RUN BELT 5 REVERSE	W6DM4FR5	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRBR6	CONTACTOR-RUN BELT 6 REVERSE	W6DM4FR6	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX

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CSRB7	CONTACTOR-RUN BELT 7 REVERSE	W6DM4FR7	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRB8	CONTACTOR-RUN BELT 8 REVERSE	W6DM4FR8	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSRB9	CONTACTOR-RUN BELT 9 REVERSE	W6DM4FR9	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSBRA	CONTACTOR-RUN BELT A REVERSE	W6DM4FRA	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSBRB	CONTACTOR-RUN BELT B REVERSE	W6DM4FRB	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSBRC	CONTACTOR-RUN BELT C REVERSE	W6DM4FRC	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSBRD	CONTACTOR-RUN BELT D REVERSE	W6DM4FRD	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSBRE	CONTACTOR-RUN BELT E REVERSE	W6DM4FRE	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSBRF	CONTACTOR-RUN BELT F REVERSE	W6DM4FRF	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSVS	INVERTER	W6DM4FR0	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSVS	INVERTER	W6DM4FR1	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSVS	INVERTER	W6DM4FR2	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSVS	INVERTER	W6DM4FR3	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSVS	INVERTER	W6DM4FR4	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSVS	INVERTER	W6DM4FR5	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSVS	INVERTER	W6DM4FR6	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSVS	INVERTER	W6DM4FR7	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSVS	INVERTER	W6DM4FR8	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSVS	INVERTER	W6DM4FR9	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSVS	INVERTER	W6DM4FRA	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSVS	INVERTER	W6DM4FRB	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSVS	INVERTER	W6DM4FRC	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSVS	INVERTER	W6DM4FRD	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSVS	INVERTER	W6DM4FRE	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
CSVS	INVERTER	W6DM4FRF	09MR08B337	12A 3P REV+2N/C 120V5/6 IEC	CONTACTOR BX
EB	>>BUZZER OR AUDIBLE SIGNAL				
EBC	BUZZER	WINSFR1B	09H020	ALARM SONALERT 115V	BELT CONTROLR
EBSG	BUZZER-SIGNAL	W6DM4AD	09H015	BUZZER 115V W/6-32 CRT+6" LEADS	CONTROL BOX
EBSG	BUZZER-SIGNAL AUDIBLE	W6DM4FQ	09H015	BUZZER 115V W/6-32 CRT+6" LEADS	LOADING BELT
EBSG	BUZZER-SIGNAL AUDIBLE	W6DM4S+	09H015	BUZZER 115V W/6-32 CRT+6" LEADS	CONSOLE SWPNL
EC	>>>COOLING FAN				
ECF	FAN-P.C. COOLING	W6UT4MT	13AF100A37	FAN 92CFM115V60	CONSOLE TOP
ECF	FAN-P.C. COOLING	W6UT4MTA	13AF100A37	FAN 92CFM115V60	CONSOLE TOP

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EF	>>FUSE OR FUSE HOLDER				
EF37	FUSE-120V CONTROL CIRCUIT	W6DM4FR0	09FF004AHG	FUSE BK/MDX 4 AMP 125V BUSS	BELT CONTROLR
EF37	FUSE-120V MULTI TRAC CONSOLE	W6UT4MT	09FF002AMG	FUSE BK/MDX 2 AMP 250V BUSS	CONSOLE REAR
EF37	FUSE-120V MULTI TRAC CONSOLE	W6UT4MTA	09FF002AMG	FUSE BK/MDX 2 AMP 250V BUSS	CONSOLE REAR
EFC	>>FLASHER				
EFC	FLASHING LIGHT-MOVING	WINSFR1B	09H026V37	BEACON ROTARY 90MM AMBER CE ALLEN	BELT CONTROLR
EFCF	FLASHER	WINSFR1B	08FL007537	FLASHER 120V 1AMP 75FL/MIN	BELT CONTROLR
EL	>>LIGHT-PILOT OR INDICATOR				
EL0	LIGHT-120V AVAILABLE	W6DM4FR0	09J060G37	LAMP 1/2" GRN 125V IDI 1052QC5	BELT CONTROLR
ELD	LIGHT-BELT DESIRES LOAD	W6DM4RR	09J070REC	LITE-STOP 4" RED LENS	BELT LIGHT BX
ELESR	LIGHT - ILLUMINATED EMERGENCY STOP	W6DM5FRVA	09N507E	ESTOP SWITCH HEAD RED CLEAR NEEDS	CONTROL BOX
ELFRN*	LED-BEACON CONVEYOR	W6DM5FRVA	09H025V12	BEACON ROTARY AMBER LED 12VDC	CONTROL BOX
ELLL	LIGHT-BELT LOADED	W6DM4RR	09J070REC	LITE-STOP 4" RED LENS	BELT LIGHT BX
ELP	LIGHT-BELT IN LOAD POSITION	W6DM4RR	09J070REC	LITE-STOP 4" RED LENS	BELT LIGHT BX
ELS+	LIGHT-3-WIRE	W6DM4AD	09J060G37	LAMP 1/2" GRN 125V IDI 1050QC3	CONTROL BOX
ELS+	LIGHT-3-WIRE	W6DM4FQ	09J060G37	LAMP 1/2" GRN 125V IDI 1052QC5	LOADING BELT
ELS+	LIGHT-3-WIRE	WINSFR1A	09J060G37	LAMP 1/2" GRN 125V IDI 1052QC5	BELT CONTROLR
ELSF	LIGHT-ROTATING BEACON OUTPUT	W6UT4MT	08BNOTPT	BOARD 1OUT+TICKET PRINT TEST	CONSOLE FRNT
ELSF	LIGHT-ROTATING BEACON	W6UT4MT	09H025V37	BEACON ROTARY 5.5"DIA AMBER	CONSOLE TOP
ELSF	LIGHT-ROTATING BEACON OUTPUT	W6UT4MTA	08BNOTPT	BOARD 1OUT+TICKET PRINT TEST	CONSOLE FRNT
ELSF	LIGHT-ROTATING BEACON	W6UT4MTA	09H025V37	BEACON ROTARY 5.5"DIA AMBER	CONSOLE TOP
ELSG	LIGHT-SIGNAL	W6DM4S+	09J060WH37	LAMP 1/2" WHITE 120V TAB	CONSOLE SWPNL
ELUP	LIGHT-BELT IN UNLOAD POSITION	W6DM4RR	09J070REC	LITE-STOP 4" RED LENS	BELT LIGHT BX
EMES	SWITCH-EMERGENCY STOP	W6DM5FRVA	09N507F	ESTOP CONTACT BLOCK WITH 120VAC LIC	CONTROL BOX
ES	>>POWER SUPPLY-ELECTRONIC				
ESPC	POWER SUPPLY SOLID STATE COMPUTER	W6UT4MTA	MESSAGE EW	SEE ITEM BPC	CONSOLE TOP
ESPL*	POWER SUPPLY - FLASHING LIGHT	W6DM5FRVA	08PSS3401T	40 WATT POWER SUPPLY TESTED	CONTROL BOX
ESPS	POWER SUPPLY-MICROPROCESSOR	W6UT4MT	08PSS3401T	40 WATT POWER SUPPLY TESTED	CONSOLE FRNT
ESPS	POWER SUPPLY-MICROPROCESSOR	W6UT4MTA	08PSS3401T	40 WATT POWER SUPPLY TESTED	CONSOLE FRNT
ESPS3	POWER SUPPLY-PHOTOEYE	W6DM4BWB	08PSL1B224	PWR SUP 100-240VAC TO 24VDC	CONSOLE REAR
ET	>>>THERMAL OVERLOADS				
ETB	OVERLOAD-BELT MOTOR	W6DM4MR	09FTC0010T	OL RELAY 1.0-2.9A AB#193-A3D1	SIDE OF BELT
EX	>>TRANSFORMERS				

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EX33	TRANSFORMER-220/1/50 TO 110V	W6UT4MT	09U5010A96	XFMR 1PH1.5KV/240/480X120/240	CONSOLE REAR
EX33	TRANSFORMER-220/1/50 TO 110V	W6UT4MTA	09U5010A96	XFMR 1PH1.5KV/240/480X120/240	CONSOLE REAR
EX96A	TRANSFORMER-600V TO 480V	W6DM4MR6	09UA050AAAB	XFMR MULTIVOLT 500VA(5PRI LDS)	AT CONTROL BX
EX96B	TRANSFORMER-600V TO 480V	W6DM4MR6	09UA050AAAB	XFMR MULTIVOLT 500VA(5PRI LDS)	AT CONTROL BX
EXL	TRANSFORMER-LOADING LIGHTS	W6DM4RR	09U002EBR	XFMR 120/240 PRI EBR 12VDC	BELT CONTROLR
EXSA	ARRESTOR-SECONDARY SPARK	W6DM4MR6	09X001A	SECONDARY ARRESTER 650V3P DELTA O	AT CONTROL BX
EXSA	ARRESTOR-SECONDARY SPARK	W6DM4MR6	09X001B	SECONDARY ARRESTER 650V3P WYE ONLAT	AT CONTROL BX
KB	>> KEYBOARD-ELECTRONIC				
KB1	KEYBOARD-P.C.	W6UT4MT	08PCME005K	KEYBOARD PS2 104KEY WIN95	CONSOLE DWR
KB1	KEYBOARD-P.C.	W6UT4MTA	08PCME005K	KEYBOARD PS2 104KEY WIN95	CONSOLE DWR
KBM1	MOUSE-P.C.	W6UT4MT	08PCME001M	MOUSE PS2 2BUTTON MICROSOFT	CONSOLE DWR
KBM1	MOUSE-P.C.	W6UT4MTA	08PCME001M	MOUSE PS2 2BUTTON MICROSOFT	CONSOLE DWR
MR	>> MOTORS				
MTB	MOTOR	W6DM4MR	MESSAGE SO	SEE SPECIFIC COMPONENT+NAMEPLATE	SIDE OF BELT
MTVS	INVERTER-COOLING FAN	W6DM5FR0	13AF300A37	FAN 300 CFM 115V 50/60	BELT CONTROLR
MTVS	INVERTER-COOLING FAN	W6DM5FR1	13AF300A37	FAN 300 CFM 115V 50/61	BELT CONTROLR
MTVS	INVERTER-COOLING FAN	W6DM5FR2	13AF300A37	FAN 300 CFM 115V 50/62	BELT CONTROLR
MTVS	INVERTER-COOLING FAN	W6DM5FR3	13AF300A37	FAN 300 CFM 115V 50/63	BELT CONTROLR
MTVS	INVERTER-COOLING FAN	W6DM5FR4	13AF300A37	FAN 300 CFM 115V 50/64	BELT CONTROLR
MTVS	INVERTER-COOLING FAN	W6DM5FR5	13AF300A37	FAN 300 CFM 115V 50/65	BELT CONTROLR
MTVS	INVERTER-COOLING FAN	W6DM5FR6	13AF300A37	FAN 300 CFM 115V 50/66	BELT CONTROLR
MTVS	INVERTER-COOLING FAN	W6DM5FR7	13AF300A37	FAN 300 CFM 115V 50/67	BELT CONTROLR
MTVS	INVERTER-COOLING FAN	W6DM5FR8	13AF300A37	FAN 300 CFM 115V 50/68	BELT CONTROLR
MTVS	INVERTER-COOLING FAN	W6DM5FR9	13AF300A37	FAN 300 CFM 115V 50/69	BELT CONTROLR
MTVS	INVERTER-COOLING FAN	W6DM5FRA	13AF300A37	FAN 300 CFM 115V 50/70	BELT CONTROLR
MTVS	INVERTER-COOLING FAN	W6DM5FRB	13AF300A37	FAN 300 CFM 115V 50/71	BELT CONTROLR
MTVS	INVERTER-COOLING FAN	W6DM5FRC	13AF300A37	FAN 300 CFM 115V 50/72	BELT CONTROLR
MTVS	INVERTER-COOLING FAN	W6DM5FRD	13AF300A37	FAN 300 CFM 115V 50/73	BELT CONTROLR
MTVS	INVERTER-COOLING FAN	W6DM5FRE	13AF300A37	FAN 300 CFM 115V 50/74	BELT CONTROLR
MTVS	INVERTER-COOLING FAN	W6DM5FRF	13AF300A37	FAN 300 CFM 115V 50/75	BELT CONTROLR
SH	>> SWITCH-HAND OPERATED				
SHAD	SWITCH-BELT ALLOWED TO DISCHARGE	W6DM4FP	09N405M210	SWASS M2W 1NO	LOADING BELT
SHAD	SWITCH-BELT 0 ALLOWED TO DISCHARGE	W6DM4FR0	09N405M210	SWASS M2W 1NO	BELT CONTROLR

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SHAD	SWITCH-BELT 1 ALLOWED TO DISCHARGE	W6DM4FR1	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHAD	SWITCH-BELT 2 ALLOWED TO DISCHARGE	W6DM4FR2	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHAD	SWITCH-BELT 3 ALLOWED TO DISCHARGE	W6DM4FR3	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHAD	SWITCH-BELT 4 ALLOWED TO DISCHARGE	W6DM4FR4	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHAD	SWITCH-BELT 5 ALLOWED TO DISCHARGE	W6DM4FR5	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHAD	SWITCH-BELT 6 ALLOWED TO DISCHARGE	W6DM4FR6	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHAD	SWITCH-BELT 7 ALLOWED TO DISCHARGE	W6DM4FR7	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHAD	SWITCH-BELT 8 ALLOWED TO DISCHARGE	W6DM4FR8	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHAD	SWITCH-BELT 9 ALLOWED TO DISCHARGE	W6DM4FR9	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHAD	SWITCH-BELT A ALLOWED TO DISCHARGE	W6DM4FRA	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHAD	SWITCH-BELT B ALLOWED TO DISCHARGE	W6DM4FRB	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHAD	SWITCH-BELT C ALLOWED TO DISCHARGE	W6DM4FRC	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHAD	SWITCH-BELT D ALLOWED TO DISCHARGE	W6DM4FRD	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHAD	SWITCH-BELT E ALLOWED TO LOAD	W6DM4FRE	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHAD	SWITCH-BELT F ALLOWED TO DISCHARGE	W6DM4FRF	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHAD	SWITCH-DISCHARGE ALLOWED	W6DM4I	09N405M210	SWASS M2W 1NO	ON DRYER
SHAL	SWITCH-LOAD ALLOWED	W6DM4I	09N405M210	SWASS M2W 1NO	ON DRYER
SHAM	SWITCH-AUTOMATIC/MANUAL	W6DM4AD	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	CONTROL BOX
SHAM	SWITCH-AUTO/MANUAL	W6DM4FQ	09N405M210	SWASS M2W 1NO	LOADING BELT
SHBAL	SWITCH-FEEDER BELT #5 LD ALLOWED	W6DM4FS5	09N405PB10	SWASS PBBK 1NO	BELT CONTROLR
SHBAL	SWITCH-FEEDER BELT #6 LD ALLOWED	W6DM4FS6	09N405PB10	SWASS PBBK 1NO	BELT CONTROLR
SHD	SWITCH-DATA VALID-BELT LOADED	W6DM4FQ	09N405PB10	SWASS PBBK 1NO	LOADING BELT
SHDT	SWITCH-BELT 0 ALLOWED TO LOAD	W6DM4FR0	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHDT	SWITCH-BELT 1 ALLOWED TO LOAD	W6DM4FR1	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHDT	SWITCH-BELT 2 ALLOWED TO LOAD	W6DM4FR2	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHDT	SWITCH-BELT 3 ALLOWED TO LOAD	W6DM4FR3	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHDT	SWITCH-BELT 4 ALLOWED TO LOAD	W6DM4FR4	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHDT	SWITCH-BELT 5 ALLOWED TO LOAD	W6DM4FR5	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHDT	SWITCH-BELT 6 ALLOWED TO LOAD	W6DM4FR6	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHDT	SWITCH-BELT 7 ALLOWED TO LOAD	W6DM4FR7	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHDT	SWITCH-BELT 8 ALLOWED TO LOAD	W6DM4FR8	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHDT	SWITCH-BELT 9 ALLOWED TO LOAD	W6DM4FR9	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHDT	SWITCH-BELT A ALLOWED TO LOAD	W6DM4FRA	09N405M210	SWASS M2W 1NO	BELT CONTROLR

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SHDT	SWITCH-BELT B ALLOWED TO LOAD	W6DM4FRB	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHDT	SWITCH-BELT C ALLOWED TO LOAD	W6DM4FRC	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHDT	SWITCH-BELT D ALLOWED TO LOAD	W6DM4FRD	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHDT	SWITCH-BELT E ALLOWED TO LOAD	W6DM4FRE	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHDT	SWITCH-BELT F ALLOWED TO LOAD	W6DM4FRF	09N405M210	SWASS M2W 1NO	BELT CONTROLR
SHFA	SWITCH-REMOTE FORMULA SELECT ALPHA	W6DM4SD	09N041N	ROTSW 5-POLE 8-POSIT 5A125V	RM SELECT BX
SHFA	SWITCH-REMOTE FORMULA SELECT ALPHA	W6DM4SF	09N041N	ROTSW 5-POLE 8-POSIT 5A125V	FORMULA SELECT
SHFN	SWITCH-REMOTE FORMULA SELECT NUMB	W6DM4SD	09N041N	ROTSW 5-POLE 8-POSIT 5A125V	RM SELECT BX
SHFN	SWITCH-REMOTE FORMULA SELECT NUMB	W6DM4SF	09N041N	ROTSW 5-POLE 8-POSIT 5A125V	FORMULA SELECT
SHFR	SWITCH-FORWARD/REVERSE	W6DM4AD	09N400CBNO	CONTACT BLK ONLY 1-NO SQDR#ZB2BE101	CONTROL BOX
SHFR	SWITCH-FORWARD/REVERSE	WINSFR1A	09N405S320	SWASS S3W 2NO	BELT CONTROLR
SHFS	SWITCH-REMOTE FORMULA SELECT 0-15	W6DM4SD	09N041N	ROTSW 5-POLE 8-POSIT 5A125V	RM SELECT BX
SHJOG	SWITCH-FEEDER BELT #5 JOG	W6DM4FS5	09N405PB10	SWASS PBBK 1NO	FEEDER BLT CNT
SHJOG	SWITCH-FEEDER BELT #6 JOG	W6DM4FS6	09N405PB10	SWASS PBBK 1NO	FEEDER BLT CNT
SHL	SWITCH-BELT IS LOADED	W6DM4FQ	09N405M210	SWASS M2W 1NO	LOADING BELT
SHL	SWITCH-BELT IS LOADED	W6DM4I	09N405M210	SWASS M2W 1NO	ON DRYER
SHLR	SWITCH-BELT IS LOADED RESET	W6DM4FQ	09N405PB01	SWASS BP BLUE INC	LOADING BELT
SHM	SWITCH-FEEDER BELT #6 MANUAL	W6DM4FS6	09N405M210	SWASS M2W 1NO	FEEDER BLT CNT
SHM	SWITCH-FEEDER BELT #5 MANUAL	W6DM4FS5	09N405M210	SWASS M2W 1NO	FEEDER BLT CNT
SHMA	SWITCH-MASTER	W6DM4FQ	09N405M210	SWASS M2W 1NO	LOADING BELT
SHMD	SWITCH-BELT MOTOR DISCONNECT	W6DM4MR	09N042204	ROTARY DISCON 10A 600V 2POS 4P	SIDE OF BELT
SHMD	SWITCH-MOTOR DISCONNECT	W6DM4S+	09N042204	ROTARY DISCON 10A 600V 2POS 4P	SIDE OF BELTS
SHMD	SWITCH-MOTOR DISCONNECT	WINSFR1A	09N042204	ROTARY DISCON 10A 600V 2POS 4P	SIDE OF BELTS
SHPE1	SWITCH-EMERGENCY PULL CORD	W6DM4FQ	09RS0002	PULL-WIRE SW SCHMERSAL#ZQ 700-11	SIDE OF BELTS
SHPE1	SWITCH-EMERGENCY PULL CORD	W6DM4S+	09RS0002	PULL-WIRE SW SCHMERSAL#ZQ 700-12	SIDE OF BELTS
SHPE1	SWITCH-EMERGENCY PULL CORD	W6DM5FRVA	09RS0002	PULL-WIRE SW SCHMERSAL#ZQ 700-13	SIDE OF BELTS
SHPE1	SWITCH-EMERGENCY PULL CORD	WINSFR1A	09RS0002	PULL-WIRE SW SCHMERSAL#ZQ 700-14	SIDE OF BELTS
SHPE2	SWITCH-EMERGENCY PULL CORD	W6DM4FQ	09RS0002	PULL-WIRE SW SCHMERSAL#ZQ 700-15	SIDE OF BELTS
SHPE2	SWITCH-EMERGENCY PULL CORD	W6DM4S+	09RS0002	PULL-WIRE SW SCHMERSAL#ZQ 700-16	SIDE OF BELTS
SHPE2	SWITCH-EMERGENCY PULL CORD	WINSFR1A	09RS0002	PULL-WIRE SW SCHMERSAL#ZQ 700-17	SIDE OF BELTS
SHS+	SWITCH-START	W6DM4AD	09N400CBNO	CONTACT BLK ONLY 1-NO SQDR#ZB2BE101	CONTROL BOX
SHS+	SWITCH-START	W6DM4FQ	09N405PG10	SWASS PBGN 1NO	LOADING BELT
SHS+	SWITCH-START	W6DM4S+	09N405PG10	SWASS PBGN 1NO	CONSOLE SWP/NL

COMPONENT PARTS LIST

W6UT5PL/2019273N

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT</u>	<u>WHERE TO FIND THIS COMPONENT</u>	<u>MIL/NOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
SHS+	SWITCH-START DRYNET DEVICE	W6UT4MD	09N405PG10	SWASS PBGN 1NO	SIDE CONSOLE
SHS+	SWITCH-START	WINSFR1A	09N405PG10	SWASS PBGN 1NO	BELT CONTROLR
SHSFR	SWITCH-RANGE SELECT	W6DM4SD	09N405M210	SWASS M2W 1NO	RM SELECT BX
SHSG	SWITCH-SIGNAL CANCEL	W6DM4S+	09N405PY10	SWASS PB YELLOW 1NO	CONSOLE SWPNL
SHSM	SWITCH-MANUAL OPERATION	WINSFR1A	09N405M220	SWASS M2W 2NO	BELT CONTROLR
SHSMA	SWITCH-MASTER	W6DM4AD	09N400CBNO	CONTACT BLK ONLY 1-NO SQD#ZB2BE101	CONTROL BOX
SHSMA	SWITCH-MASTER	W6DM4BWB	09N405M210	SWASS M2W 1NO	CONSOLE SWPNL
SHSMA	SWITCH-MASTER	W6DM4S+	09N405M210	SWASS M2W 1NO	CONSOLE SWPNL
SHSMA	SWITCH-MASTER DRYNET DEVICE	W6UT4MD	09N405M210	SWASS M2W 1NO	SIDE CONSOLE
SHSO	SWITCH-STOP	W6DM4AD	09N400CBNC	CONTACT BLK ONLY 1-NC SQD#ZB2BE102	CONTROL BOX
SHSO	SWITCH-STOP	W6DM4FQ	09N405PR01	SWASS PBRD 1NC	LOADING BELT
SHSO	SWITCH-STOP	W6DM4S+	09N405PR01	SWASS PBRD 1NC	CONSOLE SWPNL
SHSO	SWITCH-STOP DRYNET DEVICE	W6UT4MD	09N405PR01	SWASS PBRD 1NC	SIDE CONSOLE
SHSO	SWITCH-STOP	WINSFR1A	09N405PR01	SWASS PBRD 1NC	BELT CONTROLR
SHTL	SWITCH-TEST LAMP	W6UT4MTA	09N405PB11	SWASS PBBK 1NO/1NC	BELT CONTROLR
SHTL	SWITCH-TEST LAMP	W6DM5FR0	09N405PB11	SWASS PBBK 1NO/1NC	BELT CONTROLR
SK	>>SWITCH-KEYLOCK				
SM	>>SWITCH-MECHANICAL OPERATED				
SMD	SWITCH-DISCHARGE POSITION	WINSFR1B	09RPS30CAS	PROXSW QK CONN 30M NO-AC SHLD MIC	SIDE OF BELT
SMH	SWITCH-HOME POSITION	WINSFR1B	09RPS30CAS	PROXSW QK CONN 30M NO-AC SHLD MIC	SIDE OF BELT
SMFB1	SWITCH-JOG LOADING BELT	W6DM4FP	09R014A	MINI-SW SPDT STAKON #V15G1C26	LOADING BELT
SMFB2	SWITCH-JOG LOADING BELT	W6DM4FP	09R014A	MINI-SW SPDT STAKON #V15G1C26	LOADING BELT
SMLP	SWITCH-BELT IN LOAD POSITION	W6DM4FQ	09R012	MICSW SPDT PAINTED BZE6-RN 01	LOADING BELT
SMUP	SWITCH-BELT IN UNLOAD POSITION	W6DM4FQ	09R012	MICSW SPDT PAINTED BZE6-RN 01	LOADING BELT
ST	>>SWITCH-TEMPERATURE OPERATED				
STDB	SWITCH-THERMOSTAT DYNAMIC BRAKE	W6DM5FRS	30RA175T	THERMOSTAT OPENS AT 175F	CONTROL BOX
UPS	>>>BACKUP POWER SUPPLY				
UPS1	UNINTERRUPTED POWER SUPPLY	W6UT4MT	08PCJUP3350	BACKUP-UPS CS 350	CONSOLE REAR
UPS1	UNINTERRUPTED POWER SUPPLY	W6UT4MTA	MESSAGE EW	SEE ITEM BPC	CONSOLE TOP
VE	>>VALVE-ELECTRIC OPERATED				
VECB1	VALVE-EXTEND N/C	W6DM5CB1	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	VALVE SET
VECB2	VALVE-RETRACT N/C	W6DM5CB1	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	VALVE SET
VECD	VALVE-MOVE COHORP TO DISCHARGE	WINSFR1B	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	BELT CONTROLR

COMPONENT PARTS LIST

<u>COMPONENT NUMBER</u>	<u>FUNCTION OF THIS COMPONENT</u>	<u>WHERE TO FIND THIS COMPONENT</u>	<u>MIL/NOR P/N</u>	<u>DESCRIPTION</u>	<u>LOCATION</u>
VECH	VALVE-MOVE COHROP TO HOME	WINSFR1B	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	BELT CONTROLR
VEET	VALVE-EXTEND RAIL TARGET	W6DM4FQ	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	LOADING BELT
VEET	VALVE-EXTEND TARGET	W6DM4SB	96R301A37	1/8" PILOT 3W-NC 110/50 120/60	DEVICE AIR BX
ZF	>>RECTIFIERS				
ZFDL	RECTIFIER-BELT DESIRES LOAD	W6DM4RR	09A020EBR	RECTIFIER (ERB) 15A/600PIV	BELT LIGHT BX
ZFL	RECTIFIER-BELT LOADED	W6DM4RR	09A020EBR	RECTIFIER (ERB) 15A/600PIV	BELT LIGHT BX
ZFP	RECTIFIER-BELT IN LOAD POSITION	W6DM4RR	09A020EBR	RECTIFIER (ERB) 15A/600PIV	BELT LIGHT BX
ZFUP	RECTIFIER-BELT IN UNLOAD POSITION	W6DM4RR	09A020EBR	RECTIFIER (ERB) 15A/600PIV	BELT LIGHT 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 (unless the time period is specifically extended for certain parts pursuant to a specific MILNOR published extended warranty) 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, EX Factory (labor and freight specifically NOT included). 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 tampered with, modified, or abused, used for purposes not intended in the design and construction of the machine, or is altered in any way without MILNOR's written consent.

Parts damaged by exposure to weather, to aggressive water, or to chemical attack are not covered by this warranty. For parts which require routine replacement due to normal wear—such as gaskets, contact points, brake and clutch linings, belts, hoses, and similar parts—the warranty time period is 90 days.

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.

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BMP720097/25142

How to Get the Necessary Repair Components



This document uses Simplified Technical English.
Learn more at <http://www.asd-ste100.org>.

You can get components to repair your machine from the approved supplier where you got this machine. Your supplier will usually have the necessary components in stock. You can also get components from the Milnor® factory.

Tell the supplier the machine model and serial number and this data for each necessary component:

- The component number from this manual
- The component name if known
- The necessary quantity
- The necessary transportation requirements
- If the component is an electrical component, give the schematic number if known.
- If the component is a motor or an electrical control, give the nameplate data from the used component.

To write to the Milnor factory:

Pellerin Milnor Corporation
Post Office Box 400
Kenner, LA 70063-0400
UNITED STATES

Telephone: 504-467-2787
Fax: 504-469-9777
Email: parts@milnor.com

— End of BIUUUD19 —

How to Use Milnor® Electrical Schematic Diagrams

Milnor® electrical schematic manuals contain a table of contents/component list and a set of schematic drawings. 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. In older manuals, two component lists are provided: List 1 sorts the components by function, and List 2 by type of component. Newer schematic manuals include only the list sorted by component number.

The schematic drawings use symbols for each electromechanical 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.

Most machines require several schematics to describe the complete control system and all the options available on the included models. In most manuals there are some schematic pages that don't apply to your specific machine because certain options and configurations are mutually exclusive or are not necessary in all markets. You may find it helpful to mark or remove such pages. A schematic page that only applies to a subset of machines will normally state, in the title, which models and/or options it covers. Compare this with the nameplate on your machine and with your purchase records.

Each schematic is devoted to circuits with common functions (e.g., microprocessor inputs, motor contactors). Schematics appear in the manual in alphanumeric order.

1. Component Prefix Classifications and Descriptions

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

Note 1: Some component class codes do not have a corresponding symbol, but are represented by a box and an accompanying note describing the component. Examples of such codes are BA (printed circuit board), ED (electronic display), and ES (electronic power supply).

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

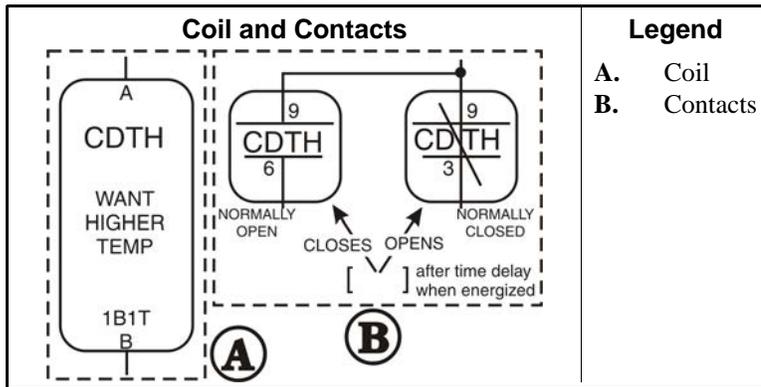
CB=Circuit Breaker (Figure 1)—Automatic switch that opens an electric circuit in abnormal current conditions (e.g., an overload).

Figure 1: Circuit Breaker (CB)



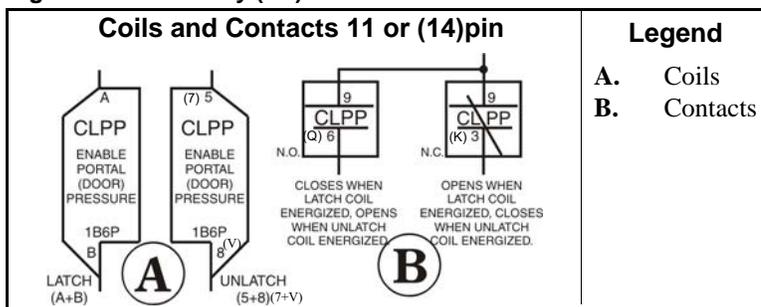
CD=Control, Time Delay Relay (Figure 2)—A relay whose contacts switch only after a fixed or adjustable delay, once voltage has been applied to its coil. The contacts switch back to normal (de-energized state) immediately when the voltage is removed.

Figure 2: Time Delay Relay (CD)



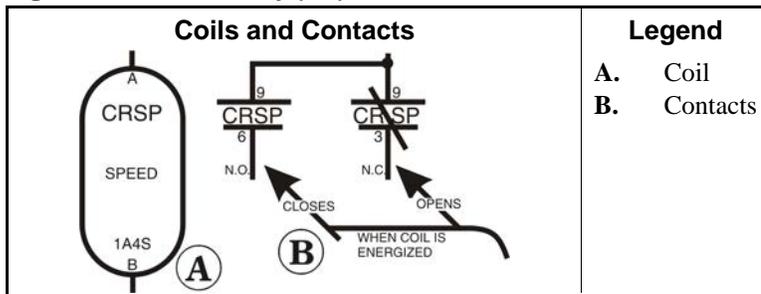
CL=Control, Latch Relay (Figure 3)—A relay which latches in an energized or set position when operated by one coil (the latch/set coil). The relay stays latched even though coil voltage is removed. The relay releases or unlatches when voltage is applied to a second coil (the unlatch/reset coil).

Figure 3: Latch Relay (CL)



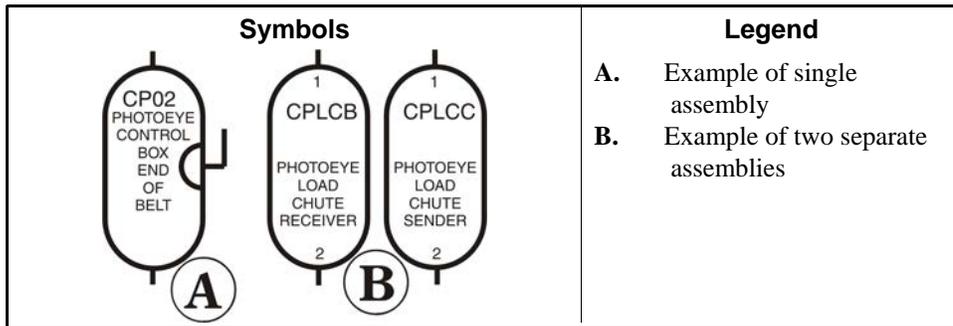
CR=Control, Relay (Figure 4)—A relay whose contacts switch immediately when voltage is applied to its coil and revert to normal when the voltage is removed.

Figure 4: Standard Relay (CR)



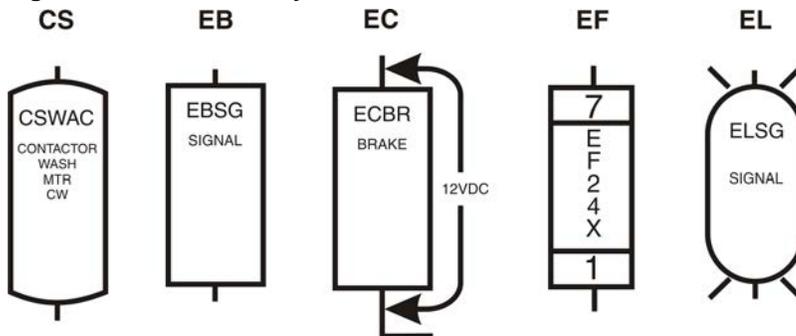
CP=Control, Photo-Eye (Figure 5)—Photo-eyes sense the presence of an object without direct physical contact. Photo-eyes consist of a transmitter, receiver, and output module. These components may be housed in one assembly with the transmitter bouncing light off of a reflector to the receiver, or these 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 un-blocked (light operate).

Figure 5: Photo-eye (CP)



CS=Control, Contactor/Motor Starter (Figure 6)—A relay capable of handling heavier electrical loads, usually a motor.

Figure 6: Other Control Symbols



EB=Electric Buzzer (Figure 6)—An audible signaling device.

EC=Electric Clutch (Figure 6)—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 (Figure 6)—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.

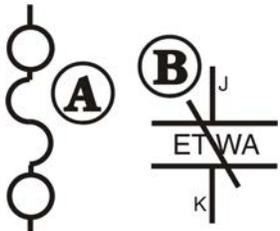
EL=Electric Light (Figure 6)—Indicator lights may be either incandescent or fluorescent.

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 (alternating 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 (Figure 7)—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.

Figure 7: Thermal Overload (ET)

Schematic Symbol	Legend
	<p>A. Heater (one per phase)</p> <p>B. Overload relay; contacts open if overload condition exists</p>

EX=Electrical Transformer (Figure 8)—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.

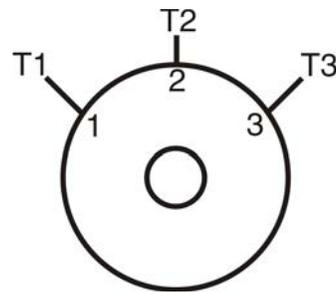
MN=Electronic Monitor (CRT)—A cathode ray tube used for visual presentation of data.

MR=Motors (Figure 9)—Electromechanical device that converts electrical energy into mechanical energy.

Figure 8: Transformer (EX)



Figure 9: Electric Motor (MR)

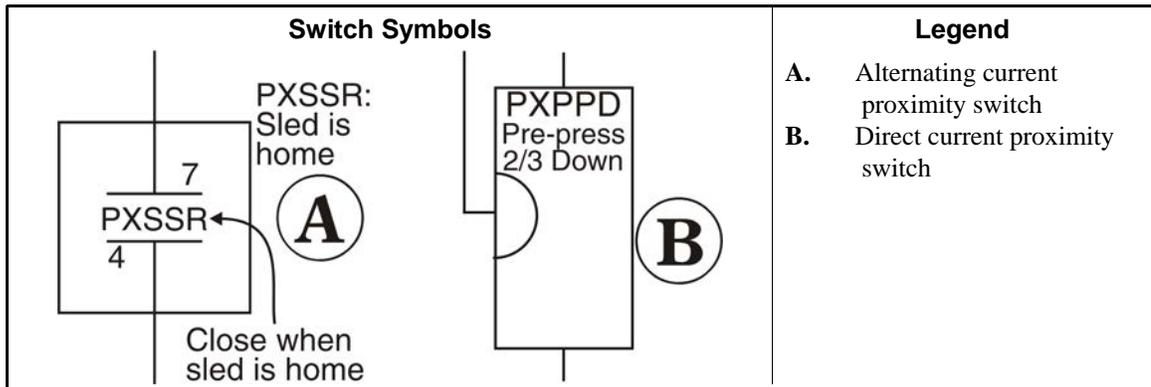


MV=Motor (Variable Speed) Inverter—To vary the speed of an AC motor, the volts to frequency ratio must be kept constant. The motor will overheat if this ratio is not maintained. The motor variable speed inverter converts three phase AC to DC. The inverter then uses this DC voltage to generate AC at the proper voltage and frequency for the commanded speed.

Note 2: Switch symbols used in the schematics and described below always depict the switch in its un-actuated state.

PX=Proximity Switch (Figure 10)—A device which reacts to the proximity of a 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.

Figure 10: Proximity Switches (PX)



SC=Switch, Cam Operated (Figure 11)—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 (Figure 12)—A switch that is manually operated (e.g., *Start button, Master switch, etc.*).

Figure 11: Cam Switch (SC)

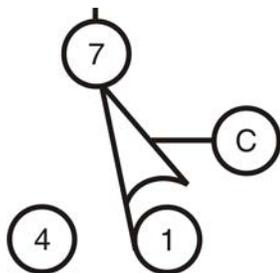
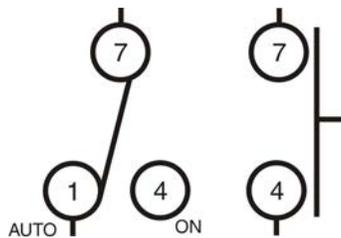


Figure 12: Hand Operated Switch (SH)



SK=Switch, Key Lock (Figure 13)—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 (Figure 14)—A switch connected to a float that causes the switch to open and close as the level changes.

Figure 13: Key Switch (SK)

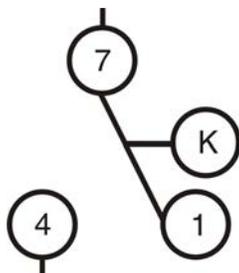
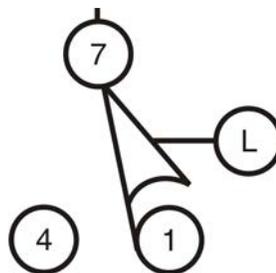


Figure 14: Level Switch (SL)



SM=Switch, Mechanically Operated (Figure 15)—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 (Figure 16)—A switch in which a diaphragm presses against a switch actuator.

Figure 15: Mechanical Switch (SM)

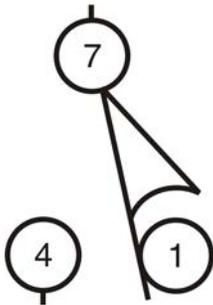
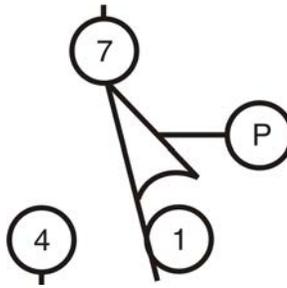


Figure 16: Pressure Switch (SP)



ST=Switch, Temperature Operated (Figure 17)—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 (Figure 18)—A strip or block for attaching or terminating wires.

Figure 17: Temperature Switch (ST)

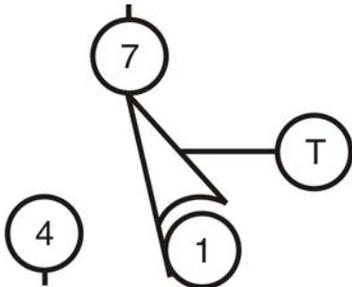
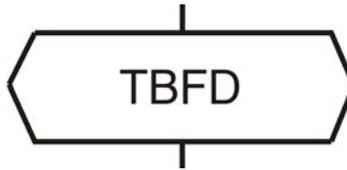


Figure 18: Terminal Board (TB)



VE=Valve, Electric Operated (Figure 19)—A valve operated by an electric coil to control the flow of fluid. The fluid can be air, water or hydraulic.

Figure 19: Electrically Operated Valve (VE)



ZF=Rectifier (Figure 20)—A solid state device that converts alternating current to direct current.

Figure 20: Bridge Rectifier (ZF)

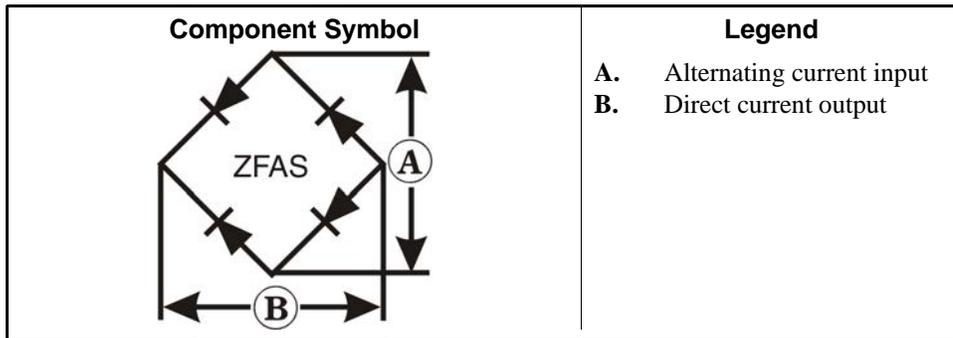
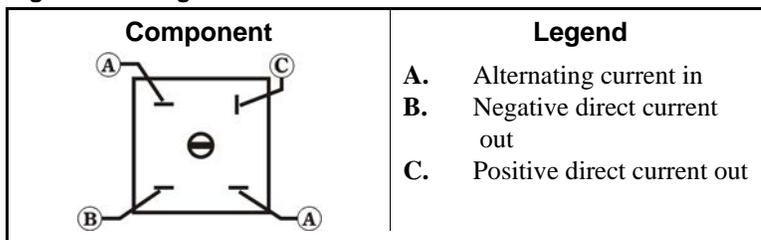


Figure 21: Bridge Rectifier



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.

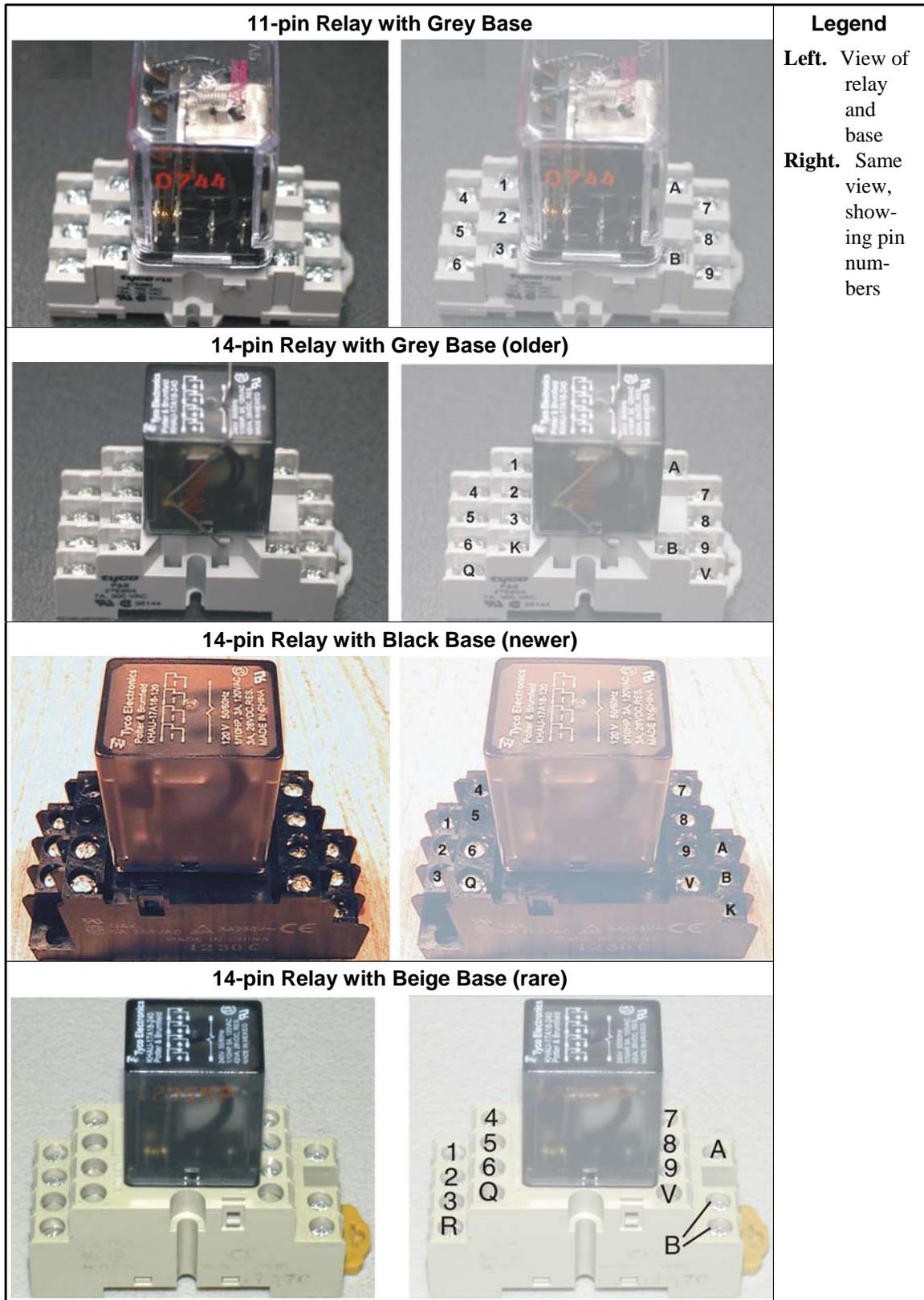
2. Component Terminal Numbering



CAUTION 1: Risk of Mis-wiring—Due to electrical component manufacturing inconsistencies, the pin numbers imprinted on components such as connectors and relay bases used on Milnor machines often do not correspond to the pin numbers shown in the schematics.

- Ignore pin numbers imprinted on in-line connectors (e.g., Molex connectors) and relay bases.
- Use the pin identification illustrations herein to identify pins on these components.

Figure 22: Plug-in Relays



Note 3: Relay functional names ending with the letter "M" (e.g., CRxxM) are not discrete components but are a component of a printed circuit board. They are usually not individually replaceable.

Figure 23: AMP Connector Pin Locations

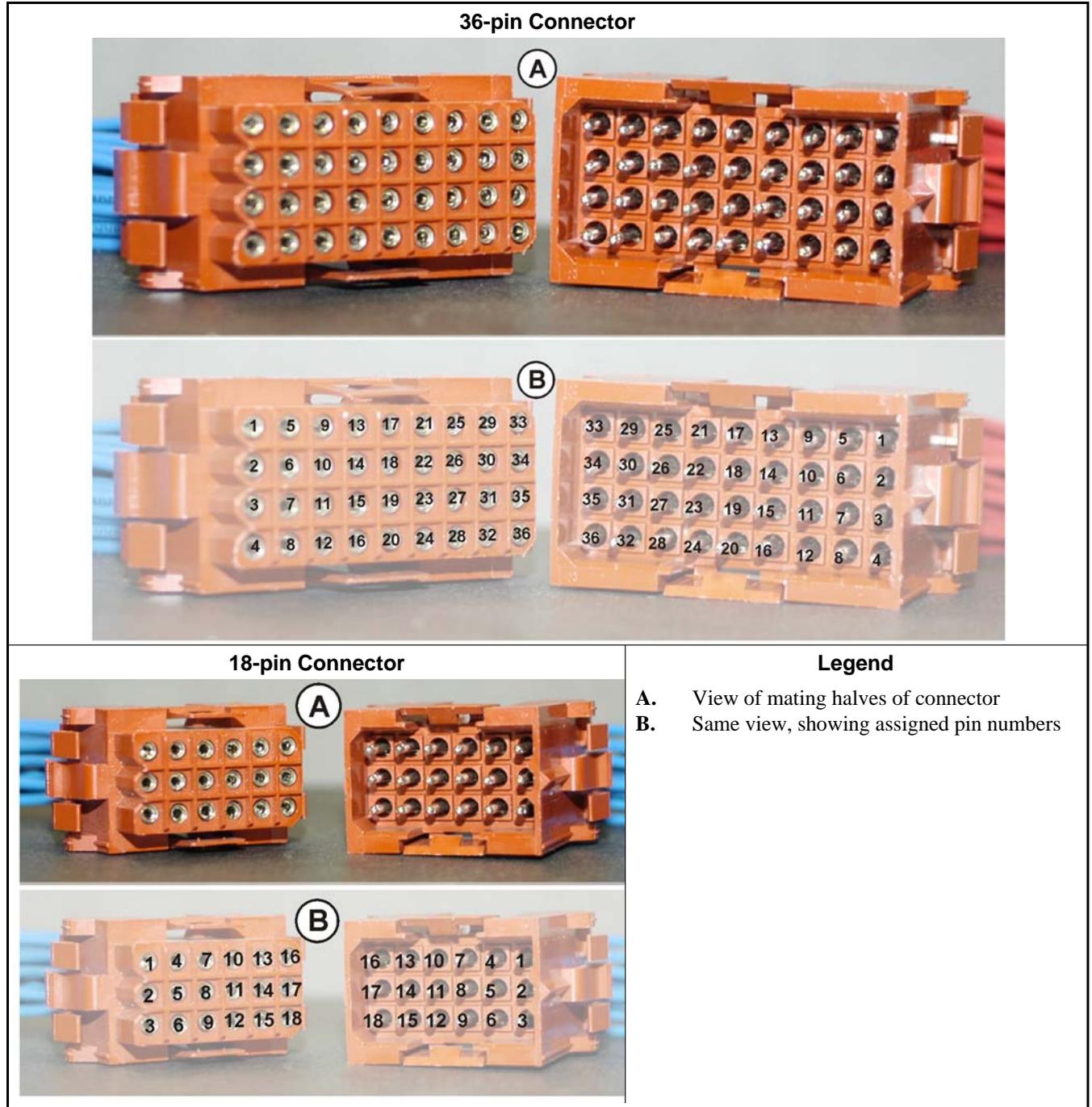


Figure 24: Molex Connector Pin Locations

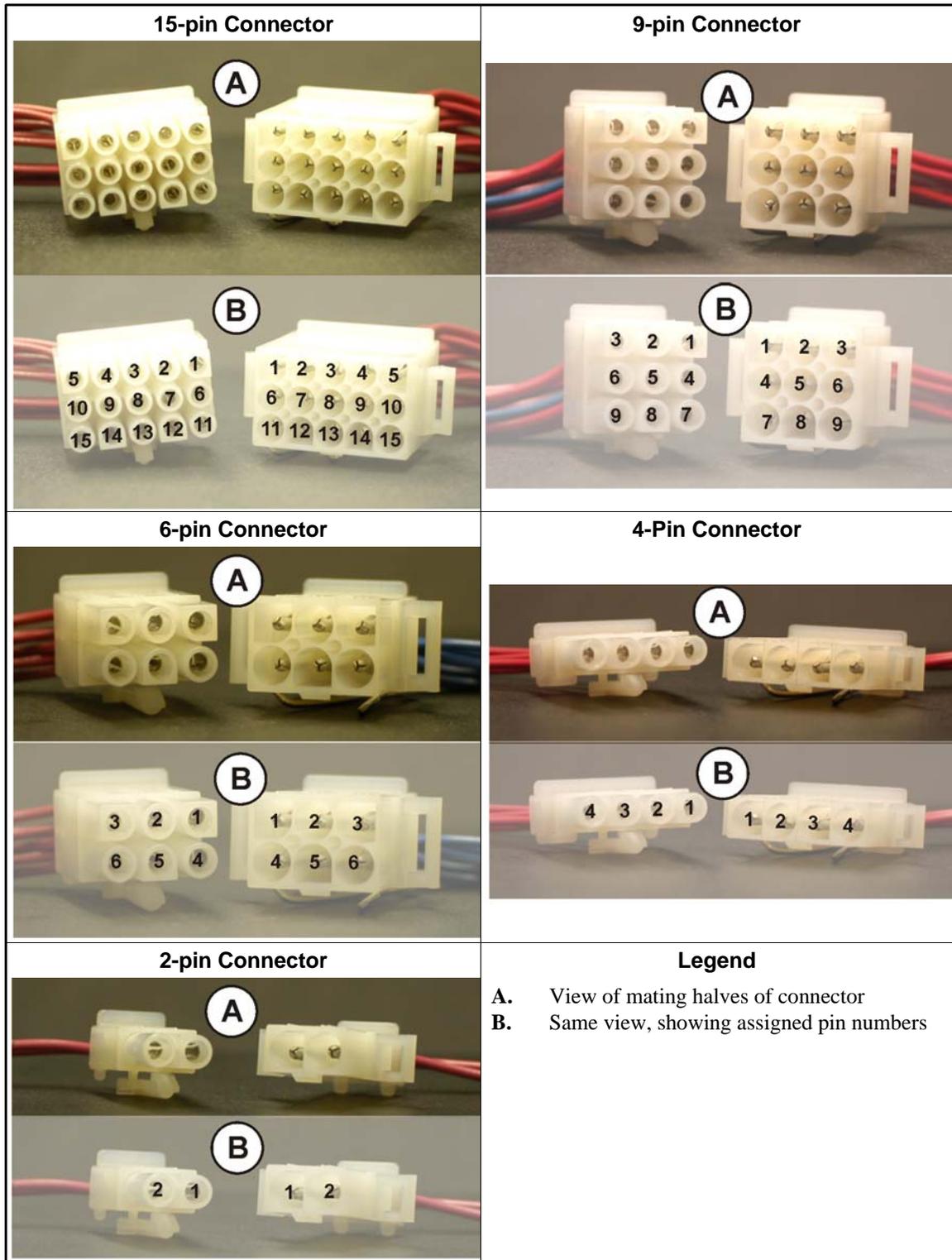


Figure 25: Pressure Switch

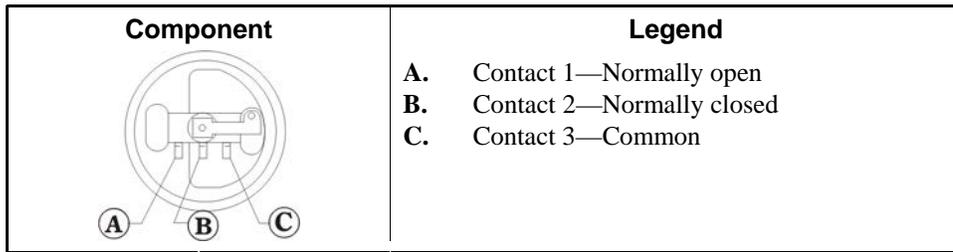


Figure 26: Toggle Switch

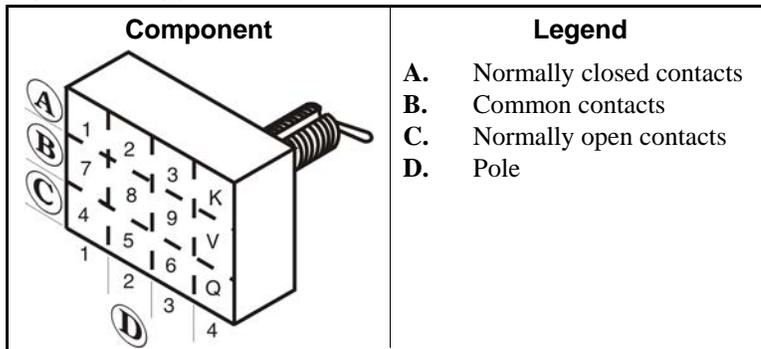
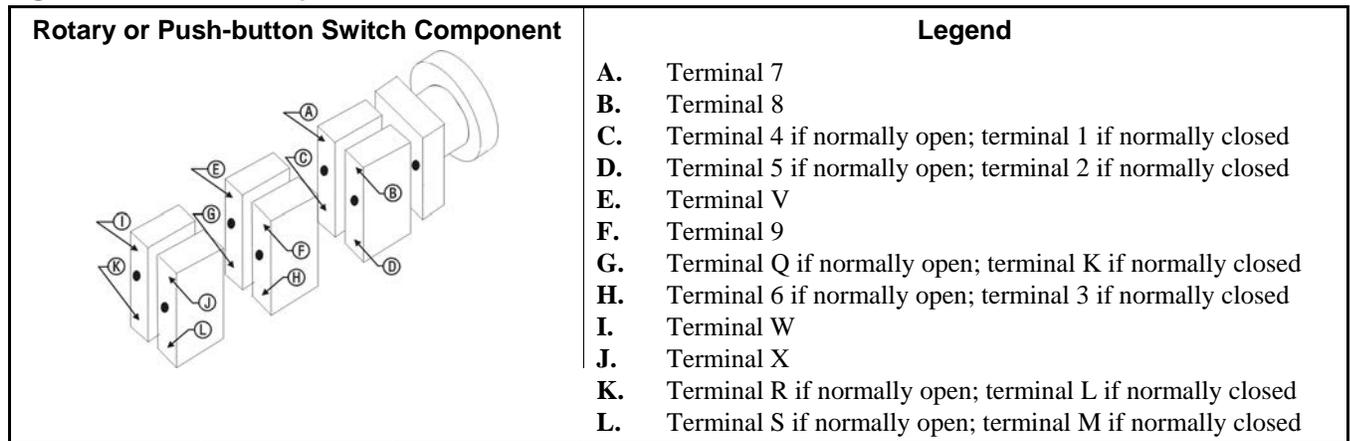


Figure 27: Switch with Replaceable Contact Blocks



3. Features of Milnor® Electrical Schematic Diagrams

Document BMP010012 (following this section) is a sample schematic, based on a schematic diagram for the Milnor® gas dryer. For the purposes of this exercise, 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).

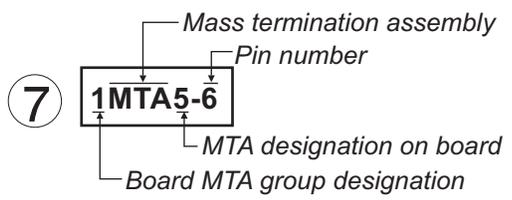
2. Included in the drawing title are the class of control system, the title of this circuit, and the circuit voltage.
3. Line numbers are provided along the bottom edge of the drawing. These permit service personnel in the field and at the Milnor® factory to quickly relate circuit locations when discussing troubleshooting over the phone. Page and line numbers are referenced on the drawing as explained in items five and six below.
4. 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.
5. Relay coils show the page and line number on which its associated contacts are located.
6. Relay contacts and relay coils show the physical location of the relay.
7. 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 V and Mark VI washer-extractor control and their designations are as follows:
 - MTM1-MTM8 = Mother board
 - MTA1-MTA5 = 8 output, 16 input (8/16) boards
 - MTA11-MTA14 = 24 output boards
 - MTA30-MTA40 = processor boards
 - MTA41-MTA43 = digital to analog (D/A) boards
 - MTA51-MTA55 = analog to digital (A/D) boards
 - MTA81-MTA85 = balance A-D board

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

8. Wire numbers, as described earlier in this section, are shown at appropriate locations on the schematic drawing.
9. 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.

— End of BIUUUK01 —

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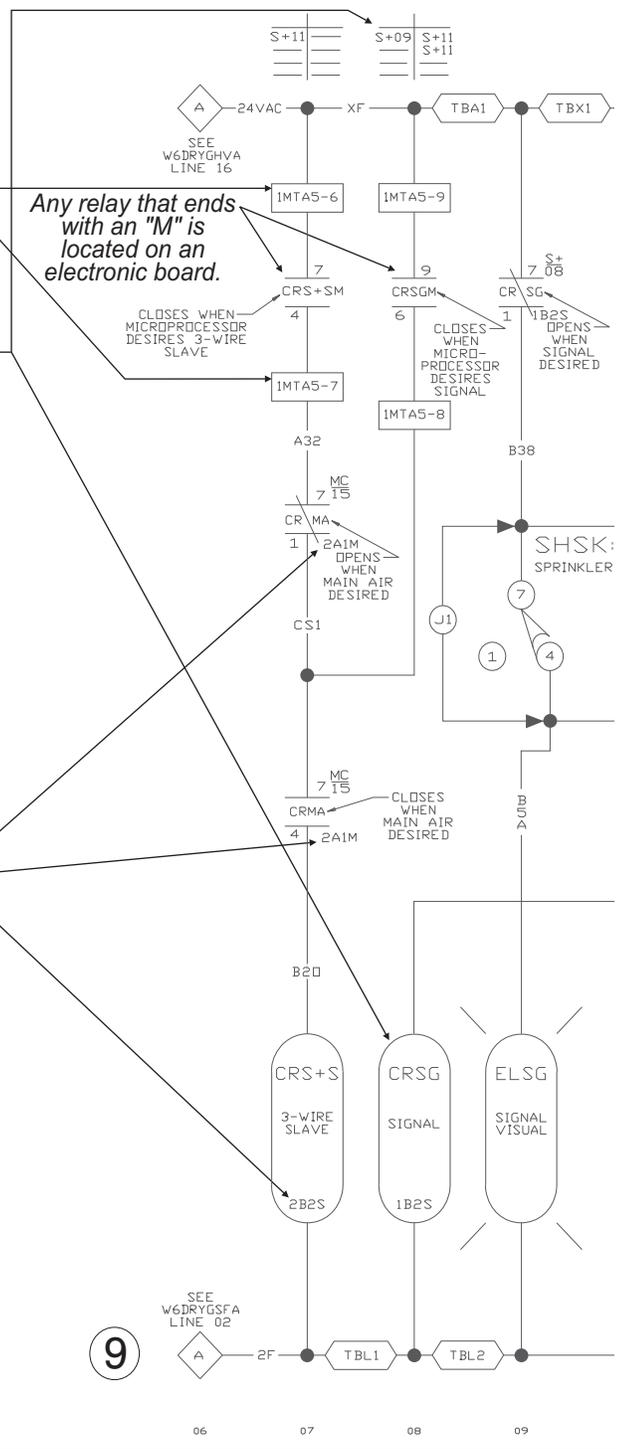
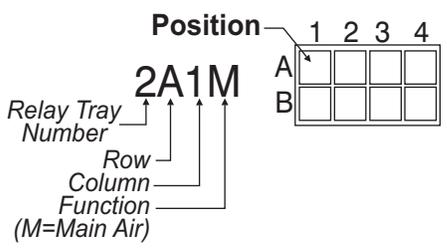
An MTA is a connection on an electronic circuit board. The notes and the tag page locate the appropriate board.

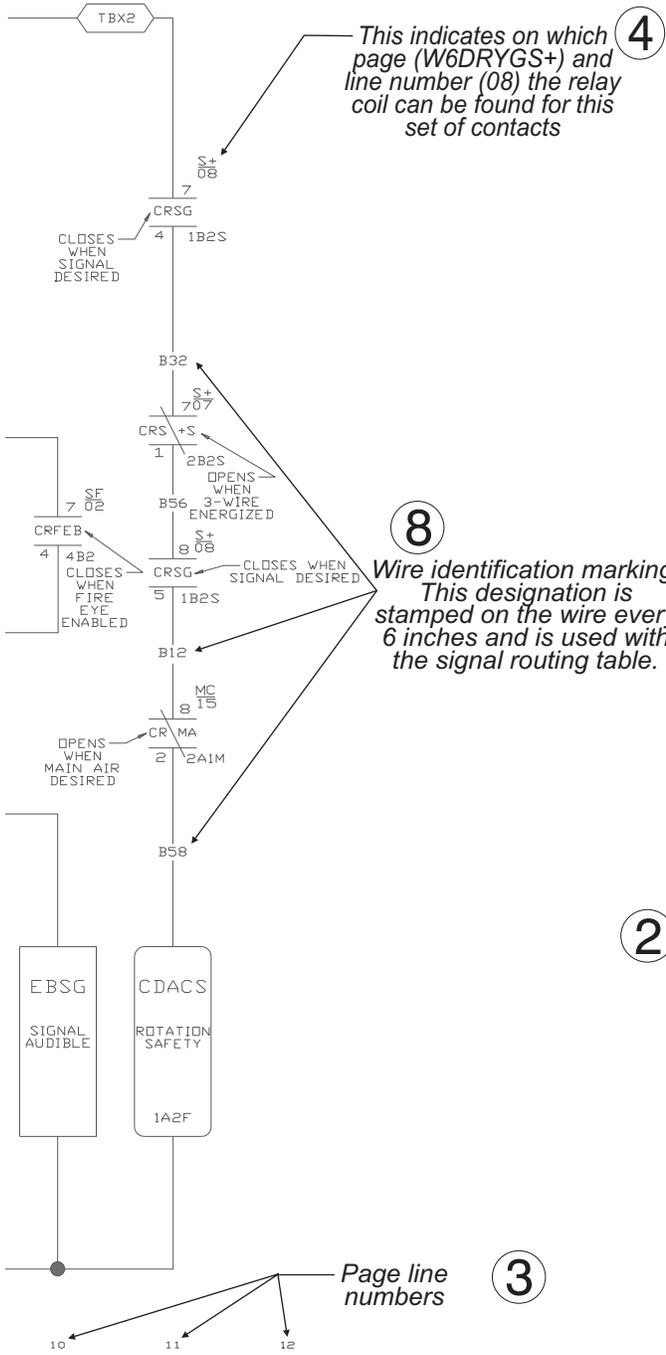
5 This indicates on which schematic page and line number the relay contacts of this coil (on Line 08) are located (i.e., W6DRYGS+, Lines 9 and 11).

	Normally closed contacts	Normally open contacts	
7-1 contact	S+09	S+11	7-4 contact
8-2 contact	—	S+11	8-5 contact
9-3 contact	—	—	9-6 contact
V-K contact	—	—	V-Q contact
Contact not used	—	—	

Drawing and line where contact is located

6 This is the physical location of the relay on the machine. Row and column numbers are shown on the appropriate tag for each relay tray.





Major revision (letter) → A

1 Page number (S+) → S+

Machine type (Gas fired dryer) → DRYG

6th generation of controls → 6

W = Wiring → W

Class of control system → MICRO 6 SYSTEMS

Title of this circuit → SCHEMATIC: 3-WIRE CIRCUIT

Voltage of this circuit → 24V1P50HZ/24V1P60HZ

PELLERIN MILNOR CORPORATION

- NOTES:
1. TBL IS LOCATED IN LEFT CONTROL BOX.
 2. TBA IS LOCATED IN RIGHT CONTROL BOX.
 3. TBX IS LOCATED IN LEFT CONTROL BOX.
 4. 1MTA5 IS LOCATED ON BID1 (8 OUTPUT-16 INPUT BOARD).
 5. REMOVE (J1) IF DRYER HAS VALVE SET SHUT OPTION.

On-Site Control Connections for Device Master, PC Device Master, Linear Costa, and Linear Costa Master

This document applies to the following controllers when used to control Milnor flat bed conveyors:

- **Device Master and PC Device Master**—Both of these controllers permit up to four, or up to eight devices (depending on the capacity specified) to be independently controlled and used for any of several specialized purposes (see Note 1). Device Master works with the older Miltrac system in a central controls mounting panel (belt box). PC Device Master works with newer MultiTrac systems.
- **Linear Costa Controller**—permits a single conveyor to be used as a multi-cake storage device (see Note 2).
- **Linear Costa Master Controller**—permits up to four, or up to eight conveyors (depending on the capacity specified) to be independently controlled and used as multi-cake storage devices (see Note 2).

Note 1: Device Master and PC Device Master provide for seven device types (seven specialized functions). Five apply to conveyors. One—the “non-storage belt” type—can apply to either a conveyor or a phantom belt. In the latter case, no physical connections are required because there is no physical device. The remaining function, called “allied dryer”, provides for using allied dryers in a Miltrac or MultiTrac system with greater functionality than a machine-to-machine allied interface would provide. This device type only involves allied interface connections.

Note 2: As of this writing, Linear Costa and Linear Costa Master products specifically for use in MultiTrac systems have not been implemented.

These controllers perform two types of functions that require on-site wiring:

1. Each serves as a machine controller for conveyor belts. In this respect, these controllers are comparable to the microprocessor controller on any machine (except that a single Device Master or Linear Costa Master can act as several controllers—one for each belt they control). But because these controllers are located in a central control cabinet shipped and installed separately from the conveyor(s), the machine functions must be “wired in” on site, as described herein.
2. Because the conveyor(s) can receive from, and discharge to allied (non-Milnor) devices, each controller can communicate with the allied equipment via allied interfaces. Allied interface connections are made on site. Refer to manual MTPALI01 “Allied Interfaces for Milnor Automated Laundering System Machines...” for more information.

Although these controllers communicate with Miltrac, the serial links are normally wired at the factory because all components are housed in the same cabinet. However, the connection procedures are described in document BICCUC01, “On-Site Installation and Troubleshooting of Permanent Serial Communication Cables.”

Regardless of the specific purpose a conveyor belt serves, all flat bed conveyors controlled by any of these controllers perform the same basic machine functions: running the belt and detecting, via photo eyes, the presence of goods. Depending on specific purpose and options, a conveyor may also perform specialized functions such as extending and retracting or signaling personnel via load lights.

1. On-Site Control Connections for Device Master, Linear Costa, or Linear Costa Master in a Miltrac™ System [Document BIYCDI02]

In a Miltrac system with the Miltrac controller mounted in a central controls mounting panel (belt box), these controllers are also mounted in the belt box. On-site connections must be made

between the controller box in the belt box and each conveyor. The standard controller-to-conveyor connections, which are the same for all three controllers, are shown in Table 1. Connections for specialized conveyor functions and for allied interfaces are not shown. Refer to the controller schematic and reference manuals, and the system layout drawings for more information.

Table 1: Standard On-Site Control Connections for Device Master, Linear Costa, and Linear Costa Master in Systems With a Miltrac Belt Box

Purpose	Cable Specification	Connection Point		
		In Controller Box		On Milnor Conveyor
		Connector	Pin	Wire (tagged)**
Motor feeds (when motor contactors are in belt box)	One set of four conductors (3-phase wiring plus ground). Each conductor: 14AWG (2.5mm ²) with 600VAC insulation	ETOL****	T1	T1
		ETOL****	T2	T2
		ETOL****	T3	T3
		TB2F (ground)	any	yellow/green ground wire
Emergency Stop pull cords		TBL	1***	Safety switch
		TBL	2***	
24VDC Photo eye power	Multi-conductor cable: 18AWG (1.0mm ²) with 300VAC color coded insulation. Ground unused wires, one end only.	TB24	any	24VDC
Microprocessor inputs from photo eyes		TB2G (ground)	any	2G
		TB_*	5	Load end phooey input
		TB_*	6	Discharge end phooey input
<p>* Character in third position varies with the (device) as follows: B = belt 0, D = belt 1, E = belt 2, F = belt 3, G = belt 4, H = belt 5, J = belt 6, K = belt 7. Example: TBB is for belt 0.</p> <p>** Wire-to-wire connections (white cap). Wires are located in one or more junction boxes mounted on the conveyor. Wires are tagged and/or color coded, as indicated.</p> <p>*** In the controller box, connect the Emergency Stop switches from all conveyors together in series, using wire-to-wire (white cap) connections, then connect the entire series into the Device Master 3-wire circuit at this location. Pulling any pull cord must cause all conveyors to stop functioning until the controller is restarted.</p> <p>**** The motor contactors/overloads are labeled "belt 0", belt 1", etc.</p>				

2. On-Site Control Connections for PC Device Master in a MultiTrac™ System [Document BIYCDI03]

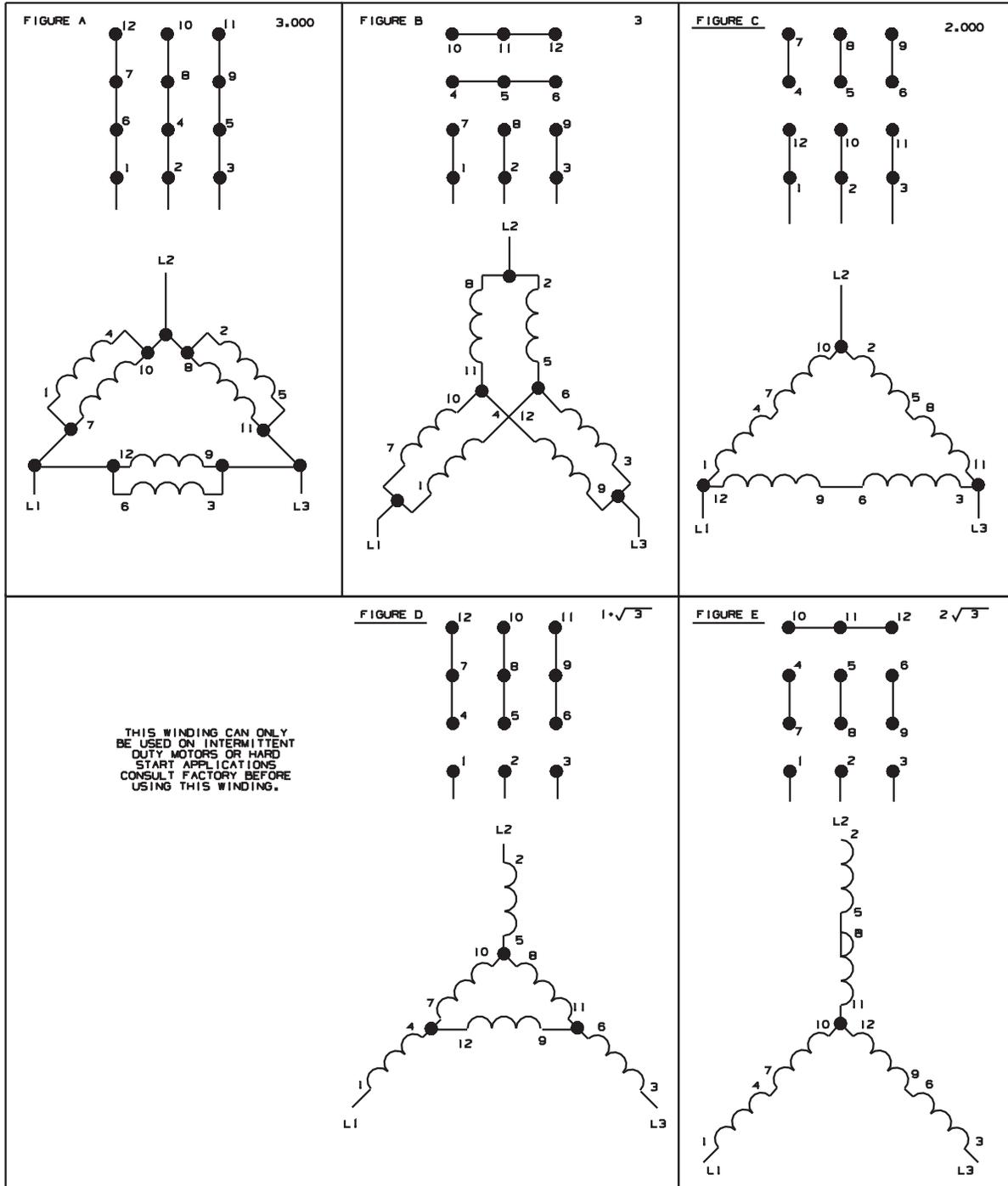
PC Device Master incorporates both a microprocessor controller located in the MultiTrac cabinet and PC Device Master software running on the MultiTrac PC. On-site connections must be made between The Device Master controller in the MultiTrac cabinet and each Device Master-controlled device. The standard connection points for connections between Device Master and a Milnor flat bed conveyor used as a Device Master device are shown in Table 2. Connections for specialized conveyor functions and for the allied dryer device type (which only involves allied interface connections) are not shown. Refer to the Device Master schematic and reference manuals and the system layout drawings for more information.

Table 2: Device Master On-Site Control Connections in MultiTrac Systems

Purpose	Cable Specification	Connection Point			
		On Device Master Controller		Contactor Box On Conveyor	
		Connector	Pin	Connector	Pin
Emergency Stop pull cords	Multi-conductor cable: 18AWG (1.0mm ²) with 300VAC color coded insulation. Ground unused wires, one end only.	TBL	1**	TBC	1
		TBL	2**	TBC	2
24VDC Photo eye power		TB24	any	TBC	7
		TB2G (ground)	any	TBC	6
Microprocessor inputs from photo eyes		TB_*	5	TBC	8
		TB_*	6	not implemented	
Microprocessor outputs to reversing contactors		TB_*	3	TBC	5
		TB_*	4	TBC	6
Earth ground		TB2F (ground)	any	TBC	4
<p>* Character in third position varies with the (device) as follows: B = belt 0, D = belt 1, E = belt 2, F = belt 3, G = belt 4, H = belt 5, J = belt 6, K = belt 7. Example: TBB is for belt 0.</p> <p>** In the Device Master control box, connect the Emergency Stop switches from all conveyors together in series, using wire-to-wire (white cap) connections, then connect the entire series into the Device Master 3-wire circuit at this location. Pulling any pull cord must cause all conveyors to stop functioning until Device Master is restarted.</p>					

— End of BIYCDI01 —

FIGURE	ELECTRICAL VALUES	SUFFIXES									
		B		H		M		T		U	
		50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ
A	1,000	20B	230			200	220	220	240	200-220	20B-240
B	$\sqrt{3}$					20B	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
E	$2 \cdot \sqrt{3}$			380							



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

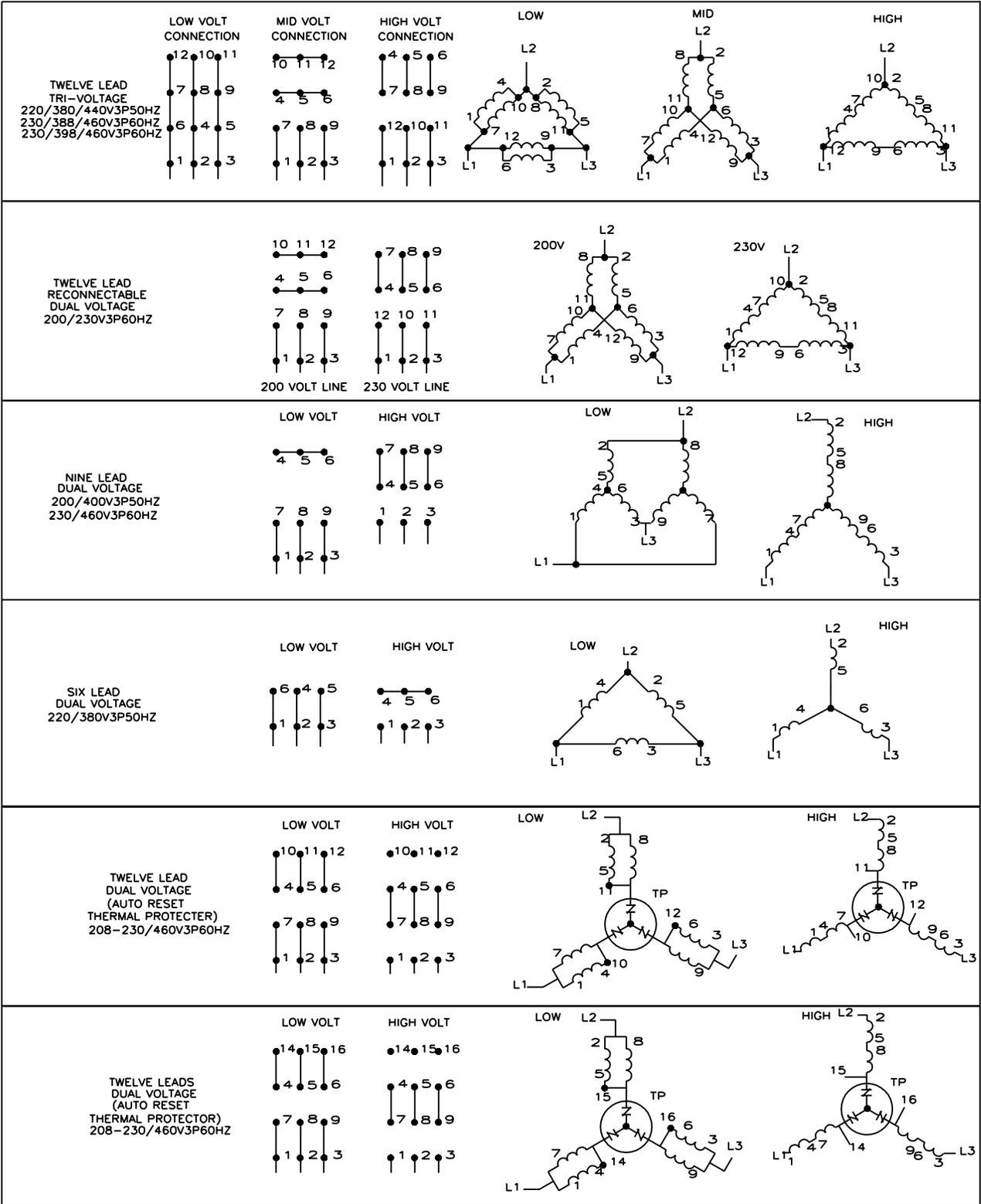
BMP850029

MOTOR CONNECTION DIAGRAMS

THREE PHASE SINGLE SPEED MOTORS WITH MULTIPLE VOLTAGE RATINGS
(ONLY FOR MOTOR SUFFIXES LISTED)

PELLERIN MILNOR CORPORATION

00
01
02
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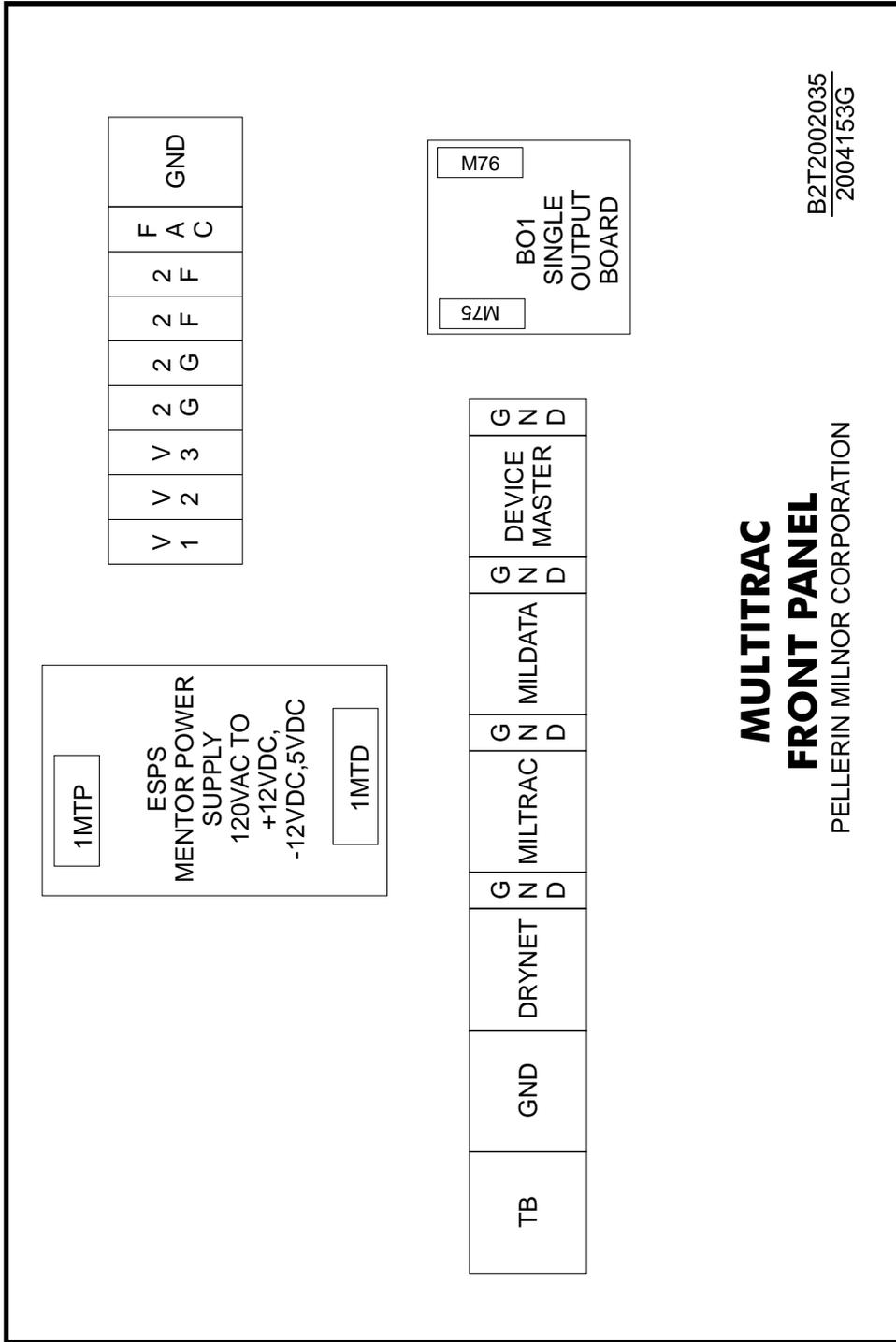
W80008

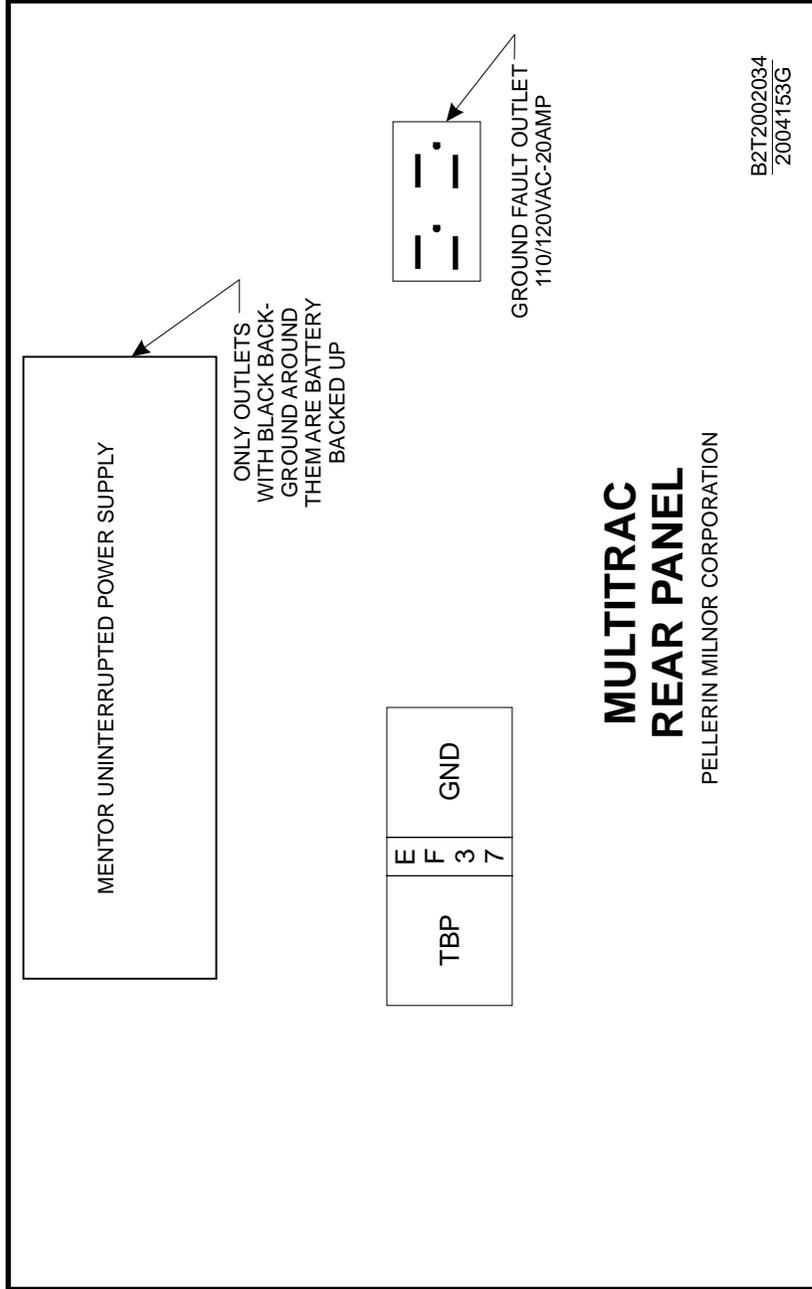
THREE PHASE
MOTOR CONNECTION DIAGRAMS
SINGLE SPEED MOTORS WITH MULTIPLE VOLTAGE RATINGS
PELLERIN MILNOR CORPORATION

W80008
2001253A

MultiTrac Console

1



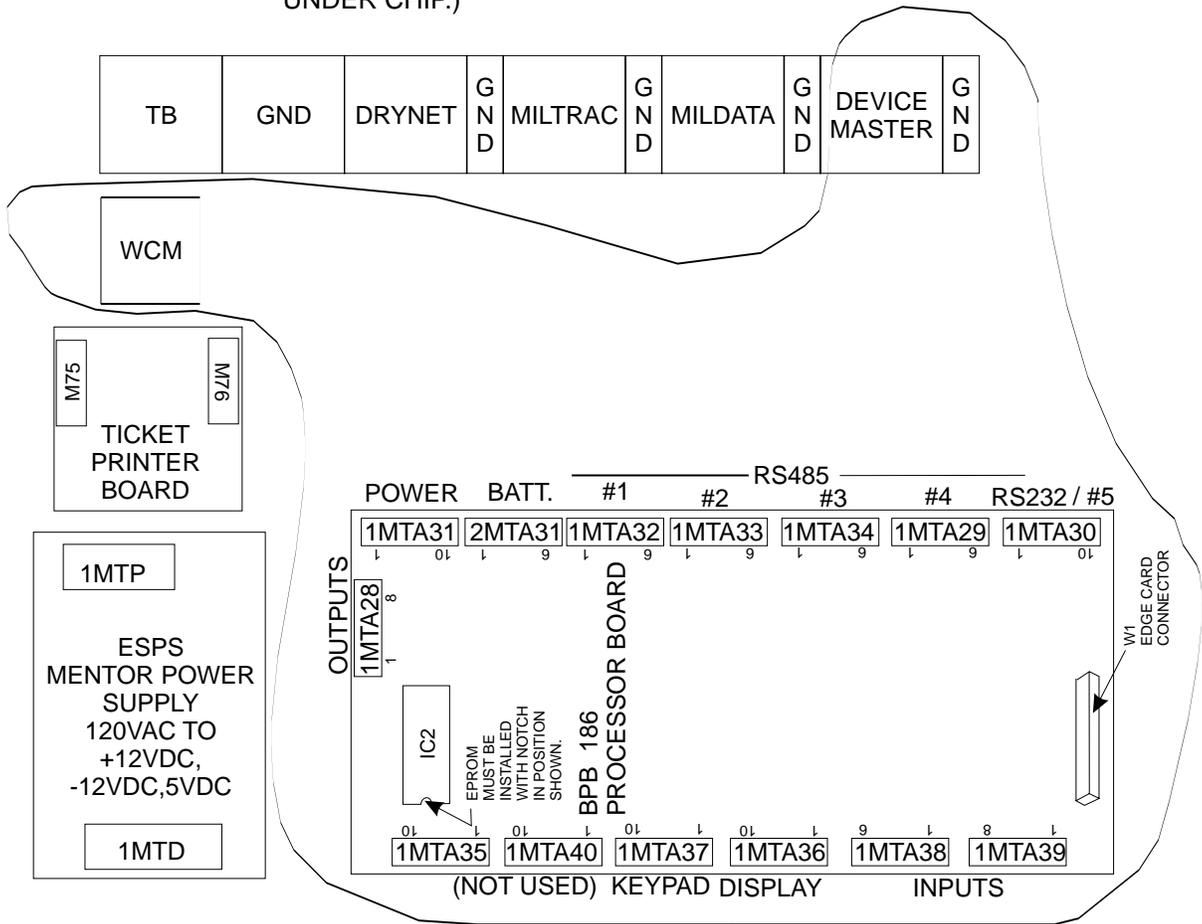


W6UT4TG1

MICRO 6 SYSTEMS CONTROL BOX LAYOUTS

PELLERIN MILNOR CORPORATION

NOTES FOR INSTALLING EPROM:
 1. EPROMS MUST BE INSTALLED IN THE CORRECT SOCKET FOR THE MACHINE TO OPERATE. FOR THIS MACHINE THERE WILL BE ONE EPROM AND IT MUST BE INSTALLED IN THE SOCKET LABELED IC2.
 2. MAKE SURE THAT ALL PINS ARE IN THEIR HOLES WHEN INSERTING (BE CAREFUL NOT TO BEND PINS UNDER CHIP.)



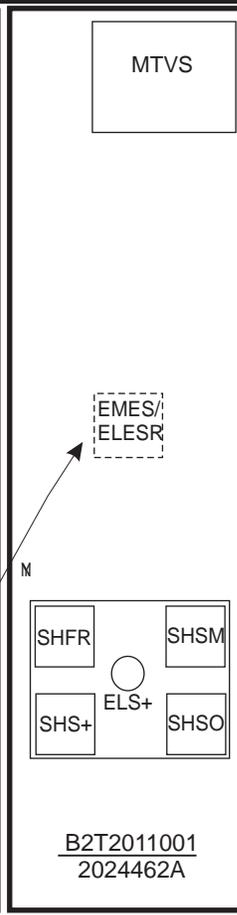
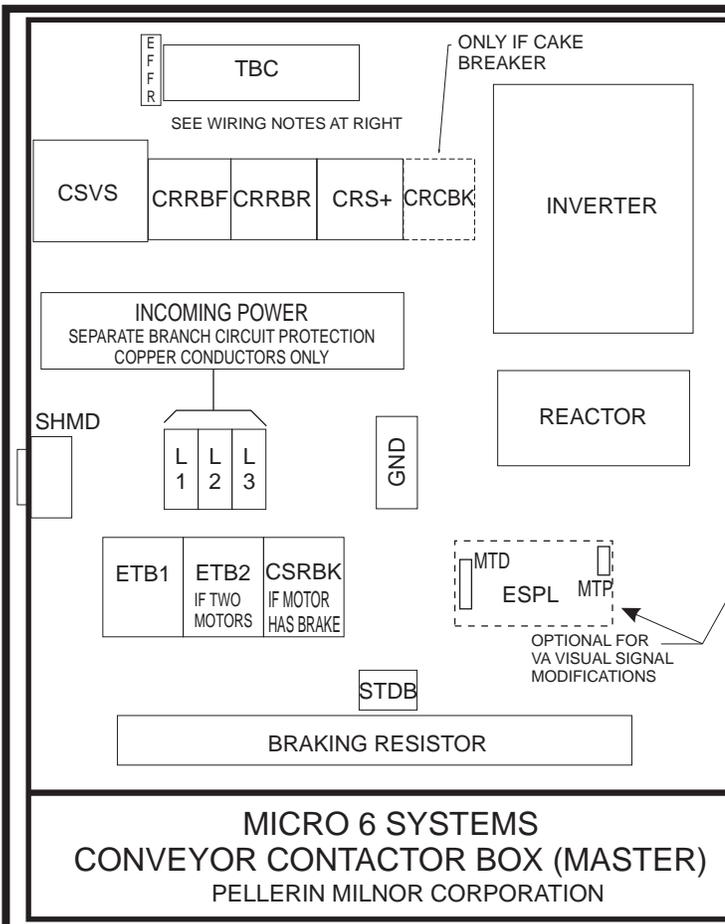
**MULTITRAC
 CONSOLE FRONT PANEL**

PELLERIN MILNOR CORPORATION

THESE ITEMS ARE PRESENT ONLY FOR
 MULTITRAC WITH DEVICE MASTER OPTION

B2T2002004
 2007445G

W6UT4TG2
 MICRO 6 SYSTEMS
 CONTROL BOX LAYOUTS
 PELLERIN MILNOR CORPORATION

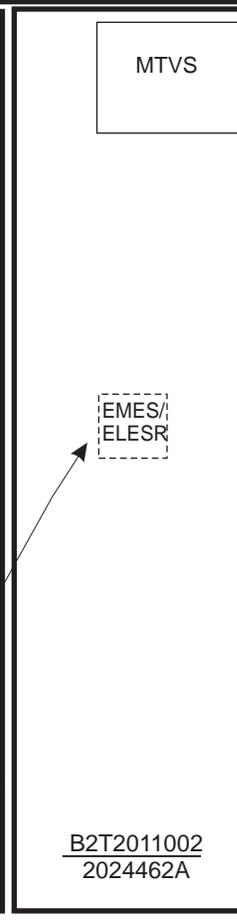
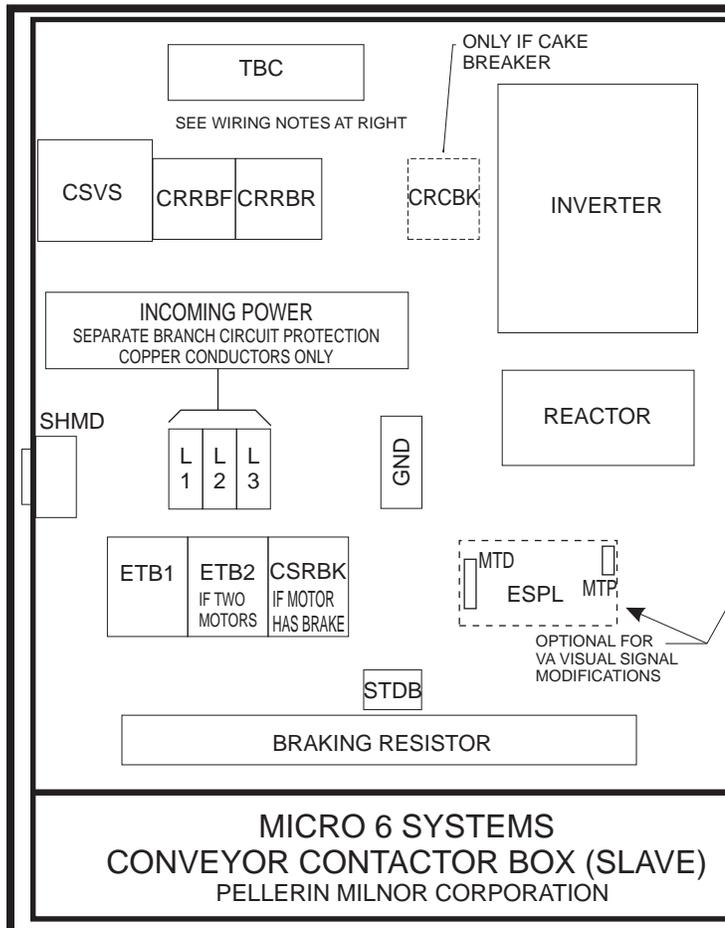


FIELD WIRING
TBC TO MULTITRAC
 TBC 0 (H) } FUSE
 4 (N) } 120VAC SUPPLY
 5 RUN BELT FORWARD
 6 (N) } 24VDC SUPPLY
 7 (H) }
 8 FORWARD PHOTOEYE
 9 REVERSE PHOTOEYE
 10 RUN BELT REVERSE
 11 3-WIRE INPUT
 12 MANUAL CONTROL INPUT
 13 BELT LOAD ALLOWED
 14 BELT DISCH. ALLOWED
 15 TO MULTITRAC TB_1

ON CONVEYOR WIRING
 TBC 1 } SAFETY PULL CORDS,
 3 } & DISCONNECTS
 6 }
 7 } P-EYE 24VDC SUPPLY
 8 FORWARD P-EYE SIGNAL
 9 REVERSE P-EYE SIGNAL

INTERFACE TO OPTIONAL BELTS
 TBC 3A SAFETIES FROM TBC3B
 ON LAST BELT
 3B SAFETIES TO FIRST
 SLAVE BELT TBC1
 S+4 POST START SWITCH TO ALL
 SLAVE BELTS TBCS+4

B2T2011001
2024462A

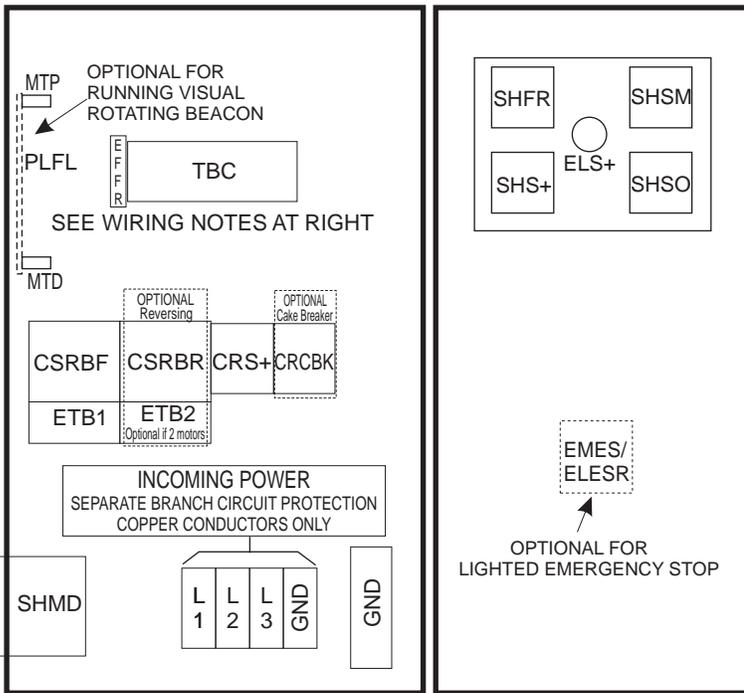


FIELD WIRING
TBC TO MULTITRAC
 TBC 5 RUN BELT FORWARD
 6 (N) } 24VDC SUPPLY
 7 (H) }
 8 FORWARD PHOTOEYE
 9 REVERSE PHOTOEYE
 10 RUN BELT REVERSE

ON CONVEYOR WIRING
 TBC 1 } SAFETY PULL CORDS,
 3 } & DISCONNECTS
 6 }
 7 } P-EYE 24VDC SUPPLY
 8 FORWARD P-EYE SIGNAL
 9 REVERSE P-EYE SIGNAL

INTERFACE TO OTHER BELTS
 TBC 1 FROM PREVIOUS SLAVE/
 MASTER 3B SAFETIES TO
 3A ON MASTER OR TO
 TBC 1 SAFETIES ON
 NEXT SLAVE
 S+4 POST START SWITCH ON
 MASTER FOR BRAKE
 RELEASE

B2T2011002
2024462A



**MICRO 6 SYSTEMS
MASTER CONTACTOR BOX**
PELLERIN MILNOR CORPORATION

B2T2009011
2024462A

**FIELD WIRING
TBC TO MULTITRAC**

- TBC 0 (H) } FUSE
- 4 (N) } 120VAC SUPPLY
- 5 } RUN BELT FORWARD
- 6 (N) } 24VDC SUPPLY
- 7 (H) }
- 8 } FORWARD PHOTOEYE
- 9 } REVERSE PHOTOEYE
- 10 } RUN BELT REVERSE
- 11 } 3-WIRE INPUT
- 12 } MANUAL CONTROL INPUT
- 13 } BELT LOAD ALLOWED
- 14 } BELT DISCH. ALLOWED
- 15 } TO MULTITRAC TB_1

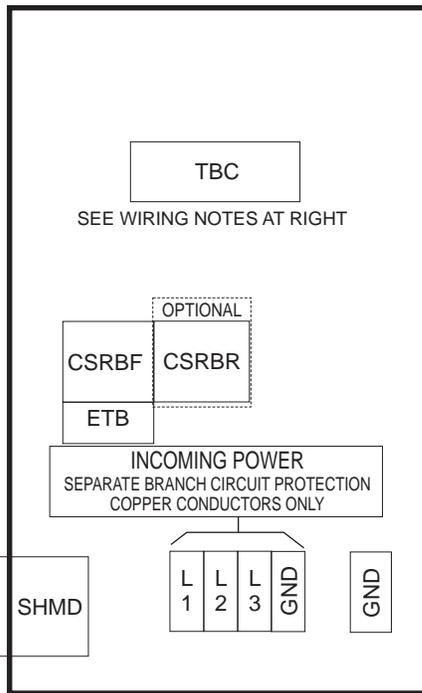
ON CONVEYOR WIRING

- TBC 1 } SAFETY PULL CORDS,
- 3 } & DISCONNECTS
- 6 }
- 7 } P-EYE 24VDC SUPPLY
- 8 } FORWARD P-EYE SIGNAL
- 9 } REVERSE P-EYE SIGNAL

INTERFACE TO OPTIONAL BELTS

- TBC 3A SAFETIES FROM TBC3B
ON LAST BELT
- 3B SAFETIES TO FIRST
SLAVE BELT TBC1

W6UT4TG3
MICRO 6 SYSTEMS
CONTROL BOX LAYOUTS
PELLERIN MILNOR CORPORATION



**MICRO 6 SYSTEMS
SLAVE CONTACTOR BOX**
PELLERIN MILNOR CORPORATION

B2T2009010
2024462A

FIELD WIRING

TBC TO MULTITRAC

- TBC 5 } RUN BELT FORWARD
- 6 (N) } 24VDC SUPPLY
- 7 (H) }
- 8 } FORWARD PHOTOEYE
- 9 } REVERSE PHOTOEYE
- 10 } RUN BELT REVERSE

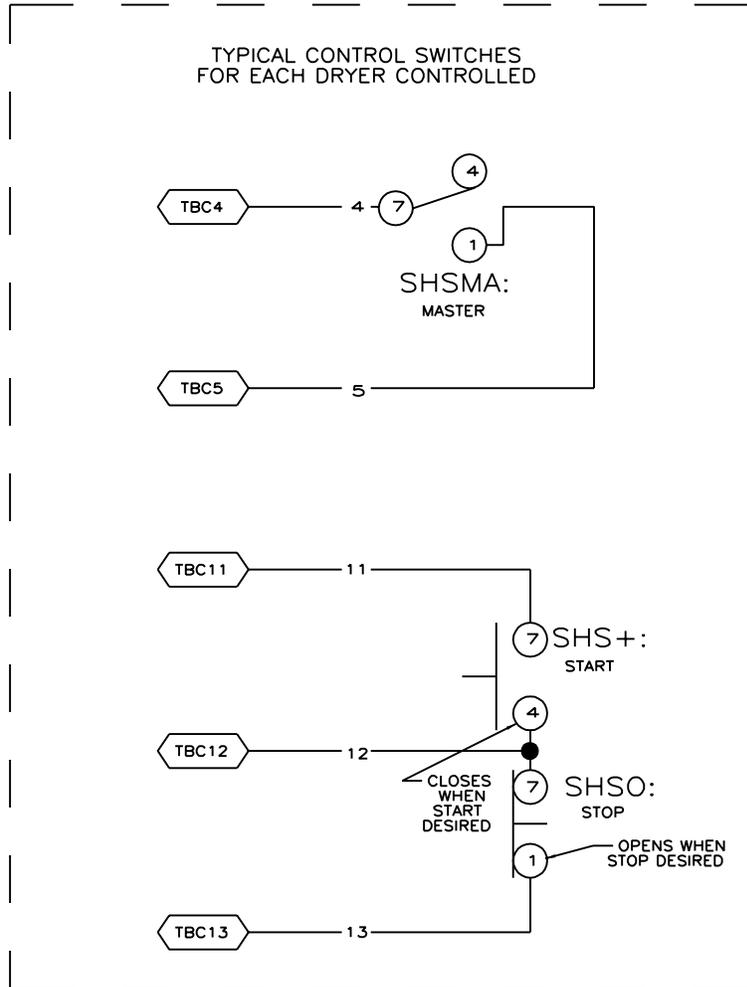
ON CONVEYOR WIRING

- TBC 1 } SAFETY PULL CORDS,
- 3 } & DISCONNECTS
- 6 }
- 7 } P-EYE 24VDC SUPPLY
- 8 } FORWARD P-EYE SIGNAL
- 9 } REVERSE P-EYE SIGNAL

INTERFACE TO OTHER BELTS

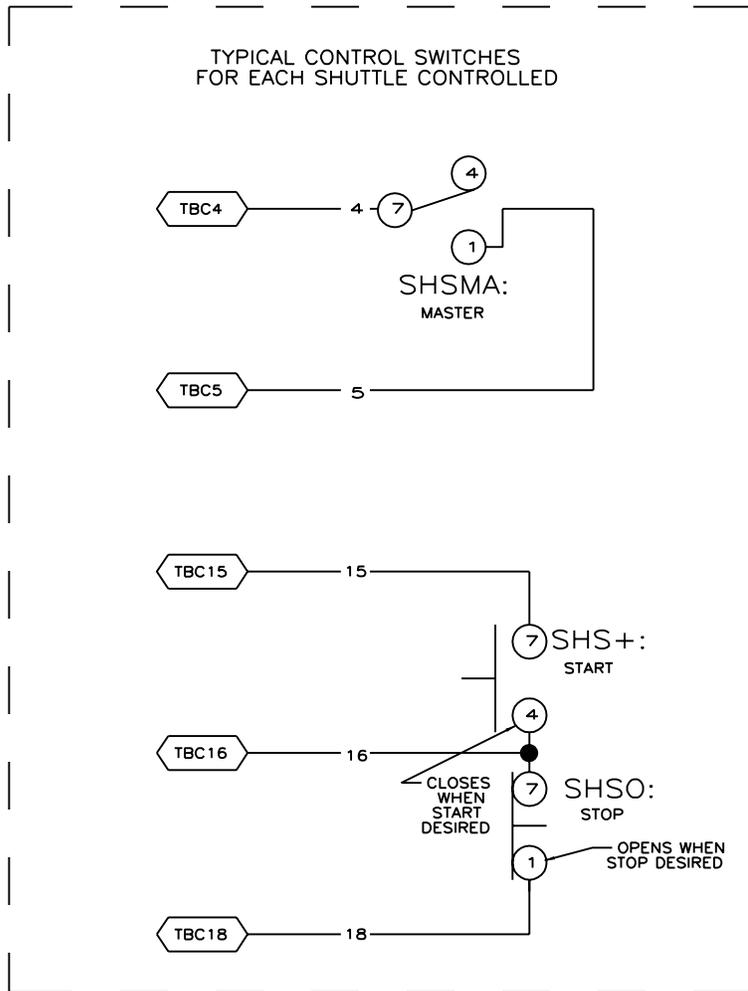
- TBC 1 FROM PREVIOUS SLAVE/MASTER
- 3B SAFETIES TO 3A ON MASTER
OR TO TBC 1 SAFETIES ON
NEXT SLAVE

LOCATED IN THE SWITCH PANEL BOX MOUNTED ON THE SIDE OF THE MULTITRAC CONSOLE



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 GROUND	RED/WHITE

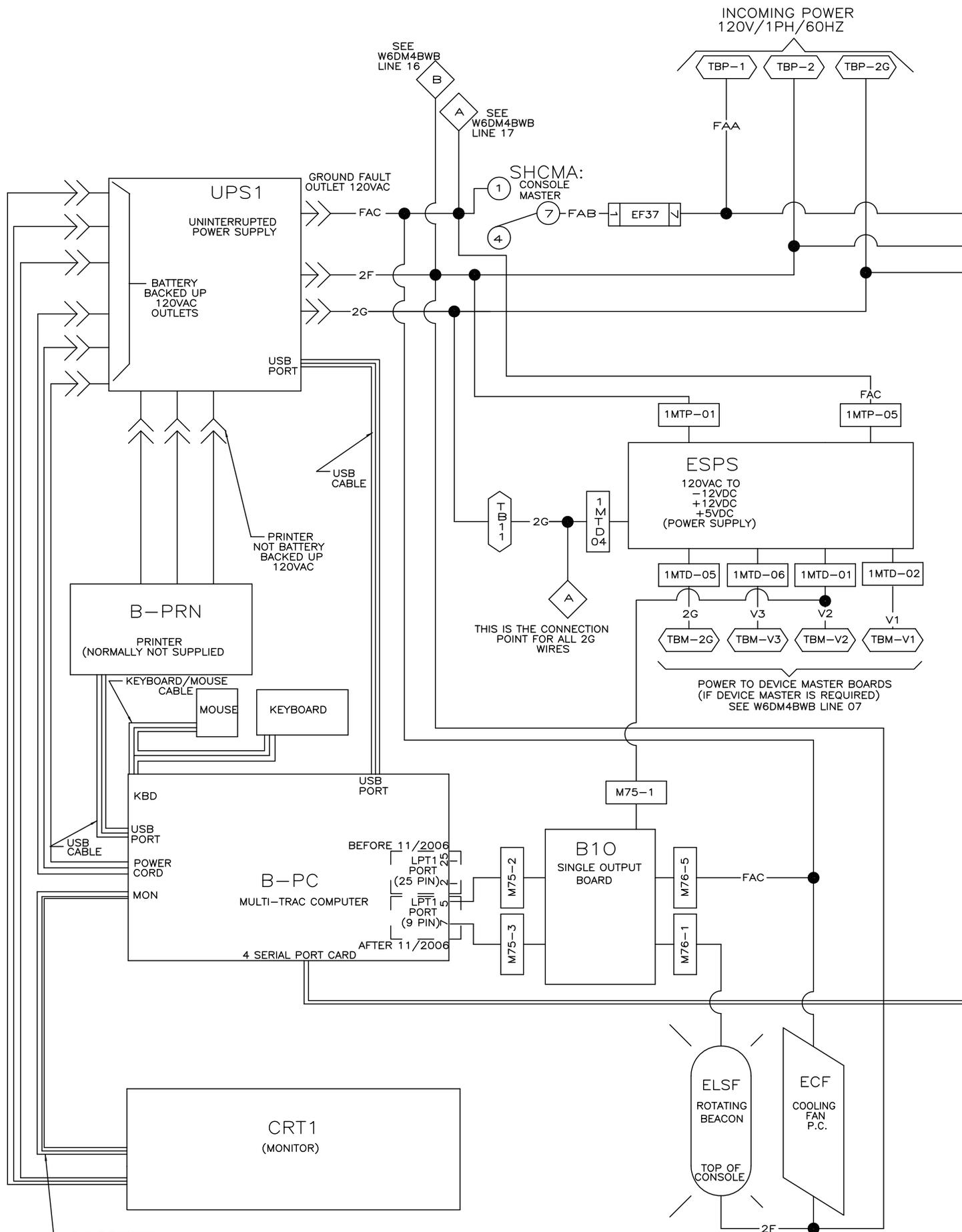
LOCATED IN THE SWITCH PANEL BOX MOUNTED ON THE SIDE OF THE MULTITRAC CONSOLE



W6UT4MD
SCHEMATIC: MULTI-TRAC DRYNET CONTROLS
PELLERIN MILNOR CORPORATION

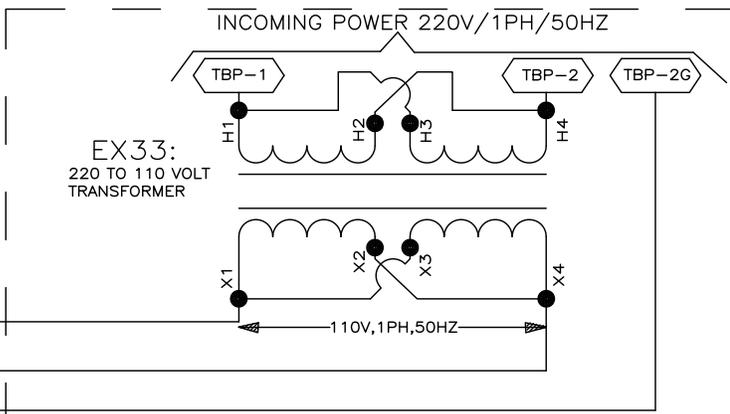
NOTES:

1. TBC IS LOCATED IN THE SWITCH PANEL BOX MOUNTED ON THE SIDE OF THE MULTITRAC CONTROLLER.



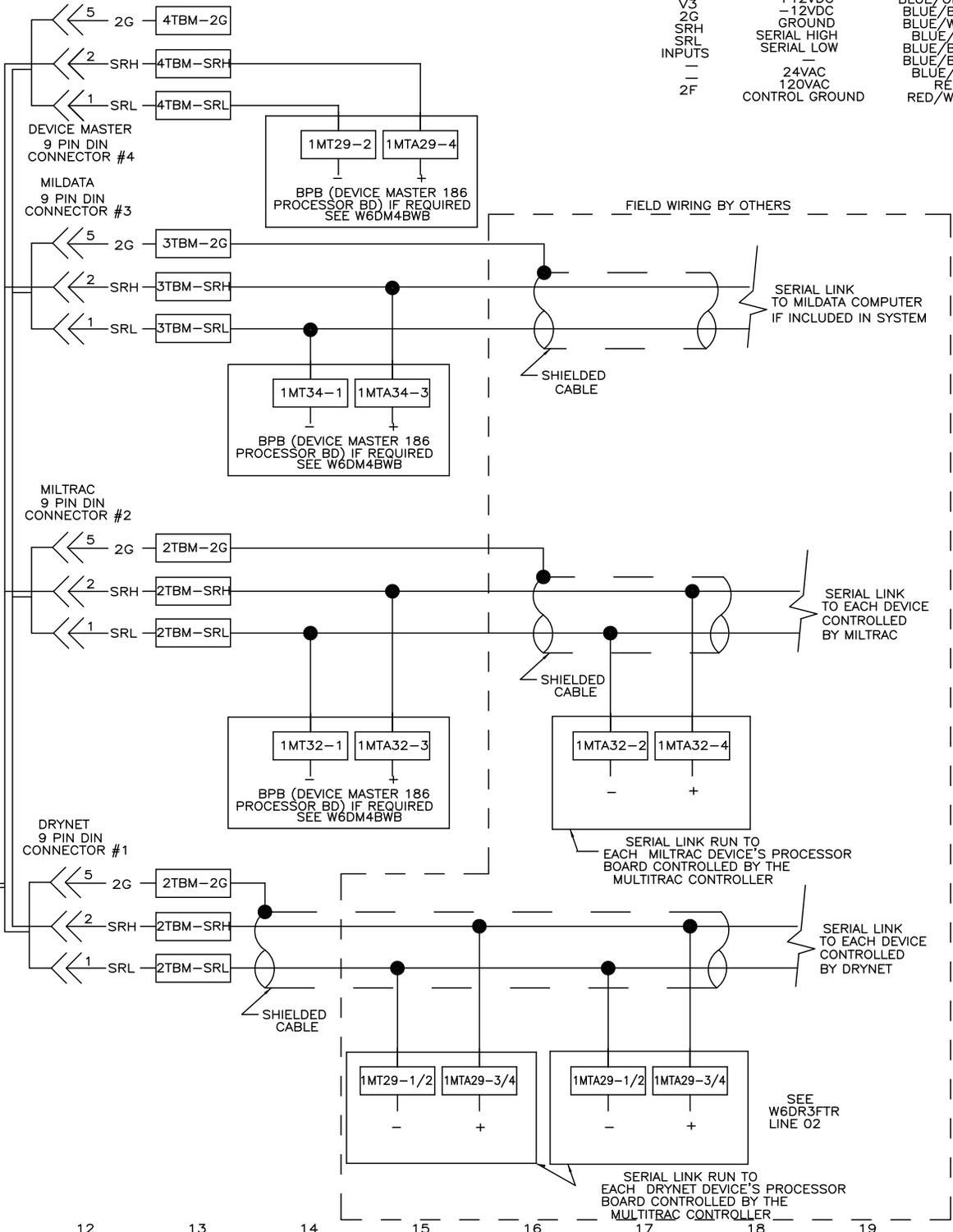
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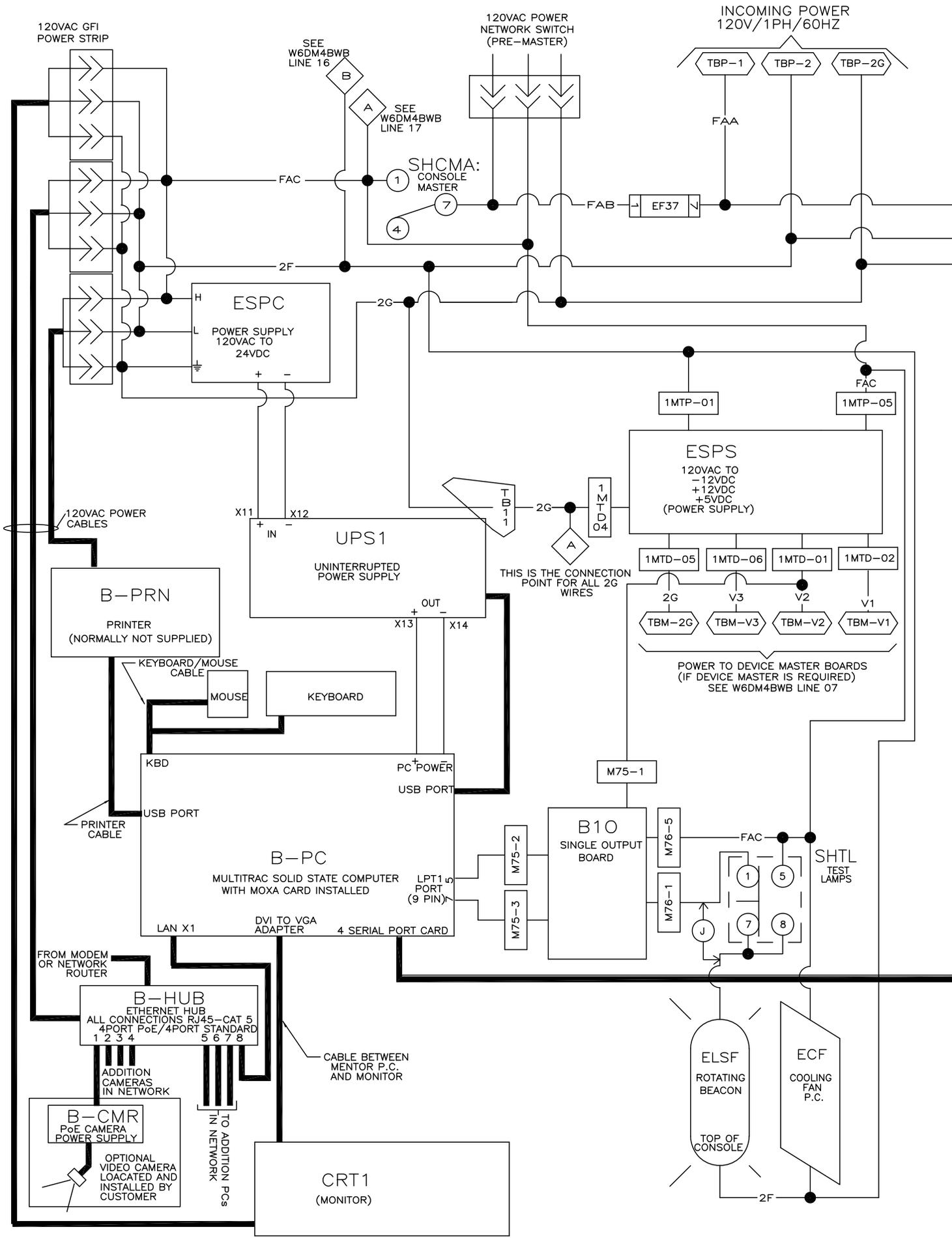
W6UT4MT
 MICRO 6 SYSTEMS
 SCHEMATIC: MULTI-TRAC CONSOLE P.C. before 7-1-2011
 PELLERIN MILNOR CORPORATION



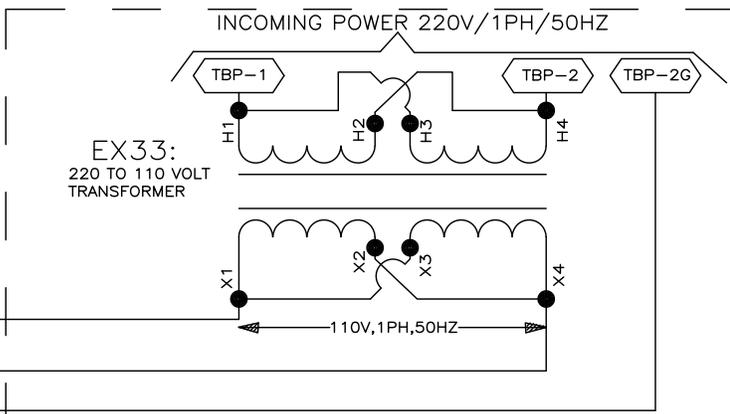
- NOTES:**
1. TBM IS LOCATED IN THE FRONT OF THE MULTI-TRAC CONSOLE
 2. TBP IS THE TERMINAL STRIP IN THE REAR OF THE MULTI-TRAC CONSOLE.

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/BLACK
-	120VAC	BLUE/RED
2F	CONTROL GROUND	RED/WHITE



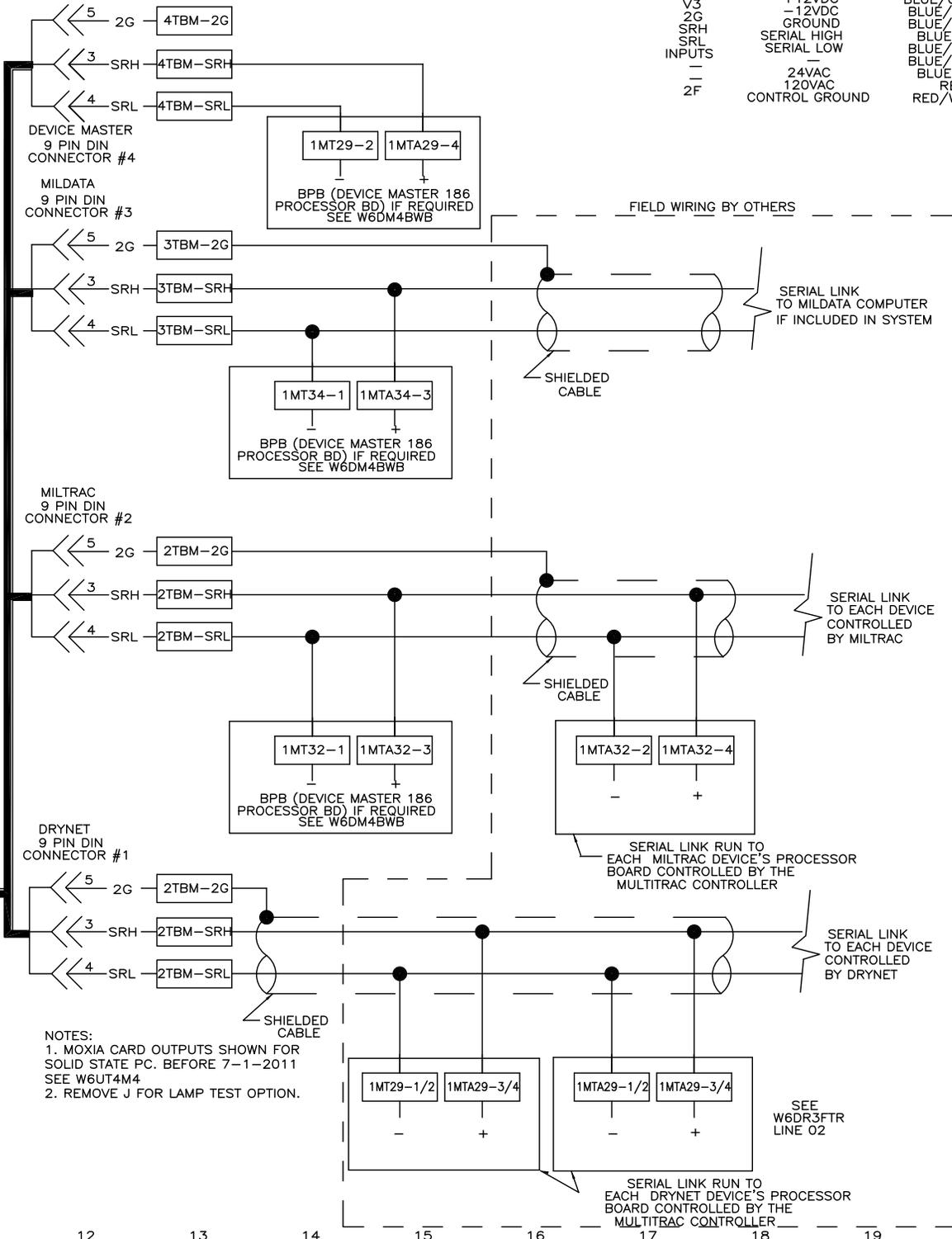


W6UT4MTA
 MICRO 6 SYSTEMS
 SCHEMATIC: MULTITRAC CONSOLE P.C. AFTER 7-1-2011
 PELLERIN MILNOR CORPORATION



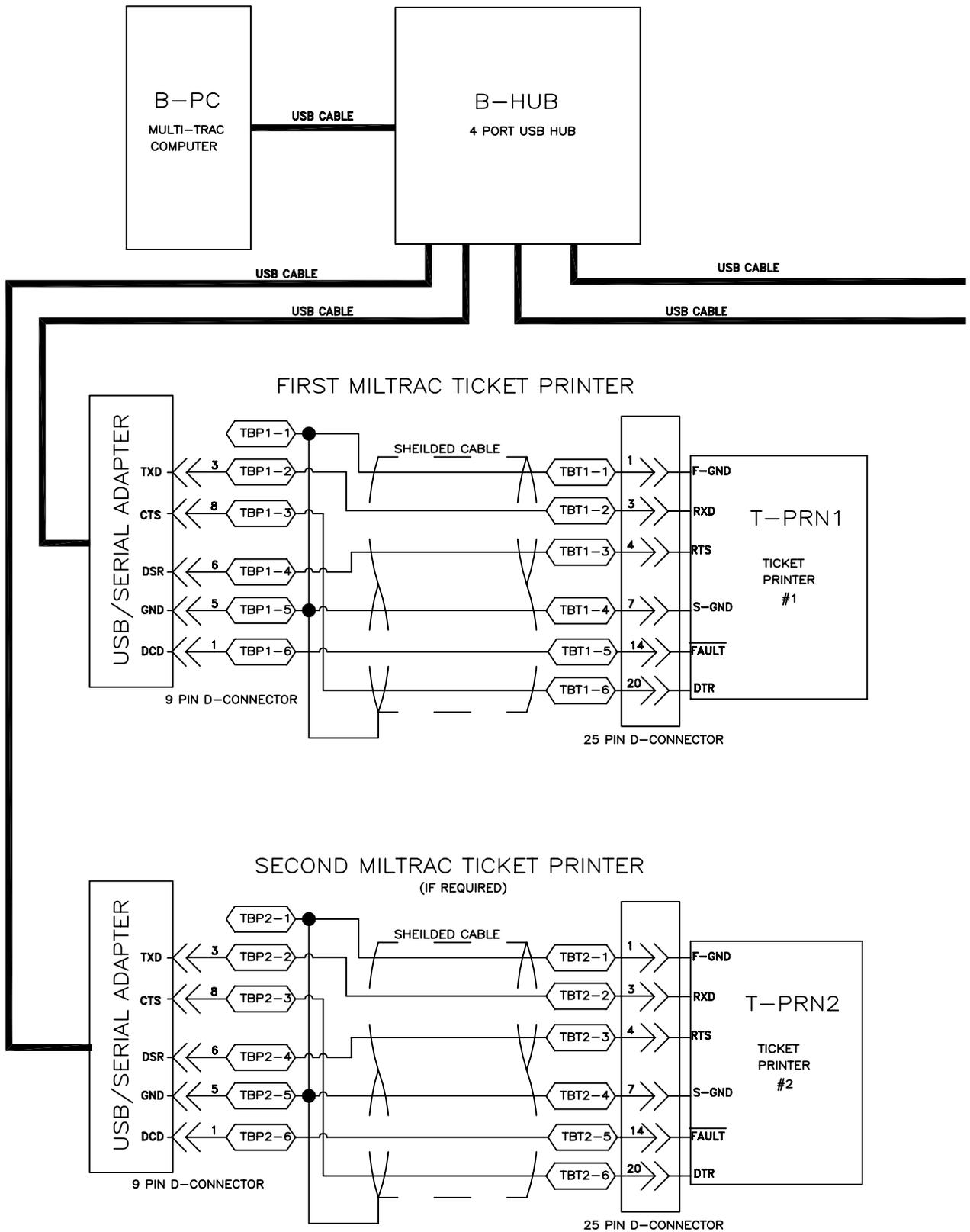
- NOTES:**
1. TBM IS LOCATED IN THE FRONT OF THE MULTI-TRAC CONSOLE
 2. TBP IS THE TERMINAL STRIP IN THE REAR OF THE MULTI-TRAC CONSOLE.

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
—	24VAC	BLUE/BLACK
—	120VAC	BLUE/RED
2F	CONTROL GROUND	RED/WHITE



- NOTES:**
1. MOXIA CARD OUTPUTS SHOWN FOR SOLID STATE PC. BEFORE 7-1-2011 SEE W6UT4M4
 2. REMOVE J FOR LAMP TEST OPTION.

11 12 13 14 15 16 17 18 19

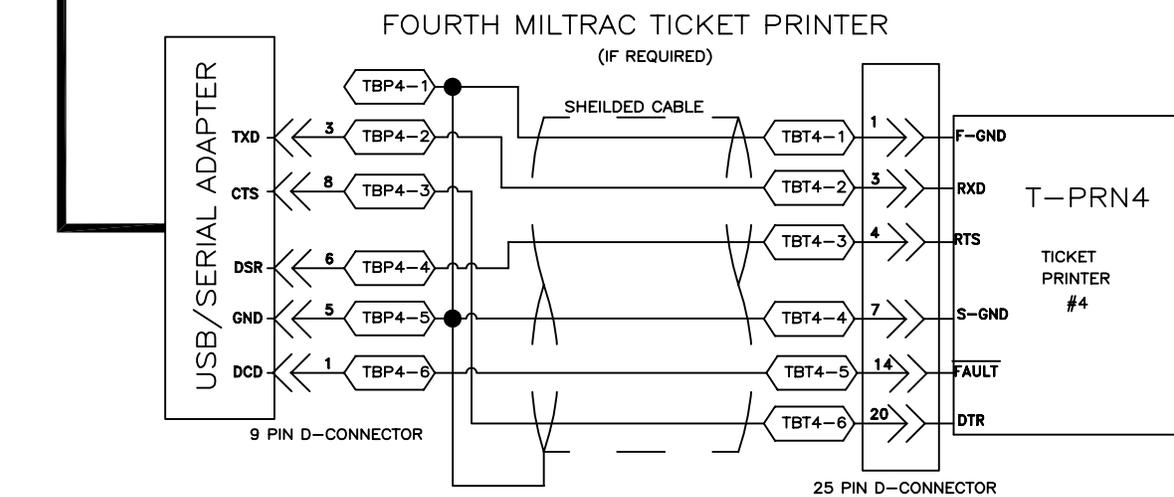
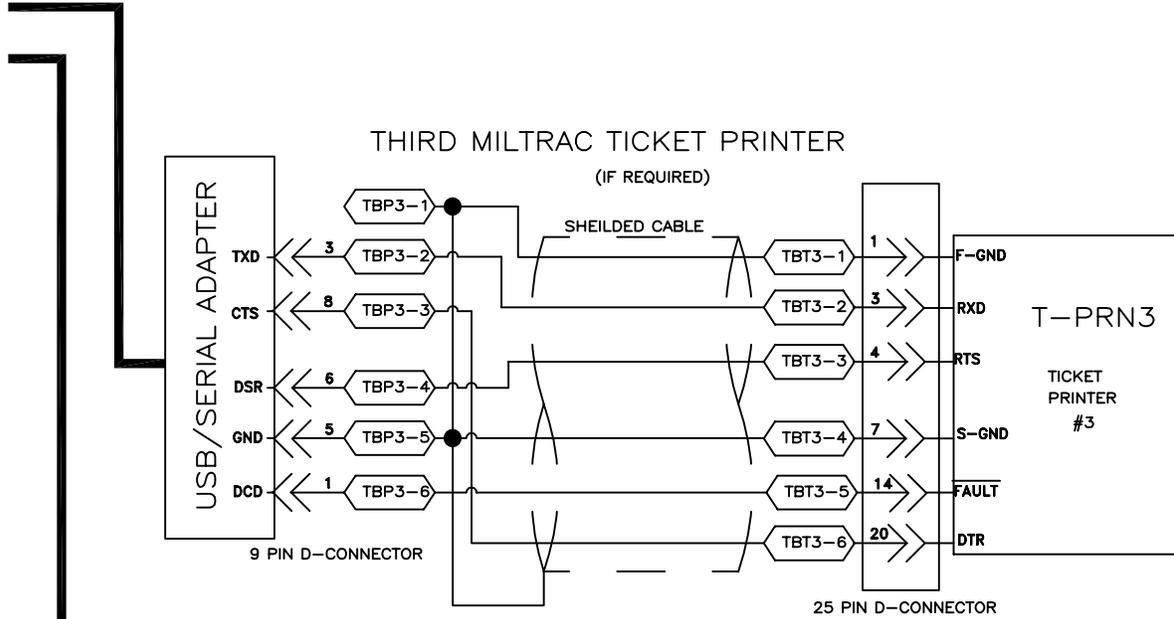


NOTES:

1. TBP1, 2, 3, & 4 ARE LOCATED IN THE TOP OF THE MULTI-TRAC CONSOLE
2. TBT1,2,3, & 4 ARE LOCATED IN JUNCTION BOX ON EACH TICKET PRINTER STAND.
3. THIS DRAWING REPLACES W6UT4TP ON MULTITRACS MANUFACTURED AFTER 4-15-2007.

DIP SWITCH SETTINGS ON STAR SP200 PRINTER									
1	2	3	4	5	6	7	8	9	10
ON	ON	ON	ON	ON	ON	ON	ON	OFF	OFF

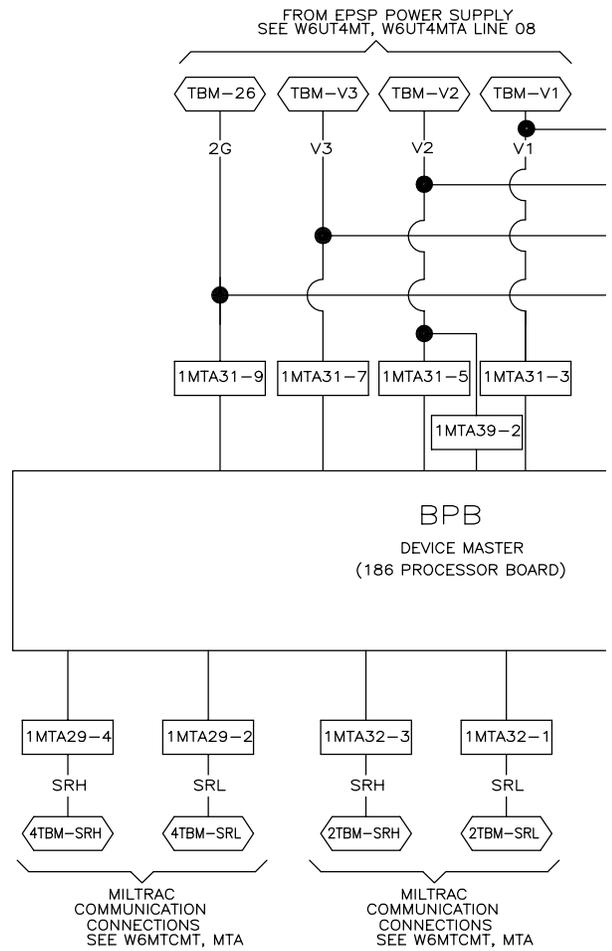
W6UT4TP
2007155B



W6UT5TP
 MICRO 6 SYSTEMS
 SCHEMATIC: MILTRAC TICKET PRINTER
 INTERFACE WITH MULTITRAC P.C.
 PELLERIN MILNOR CORPORATION

Device Master Option

2



01

02

03

04

05

06

07

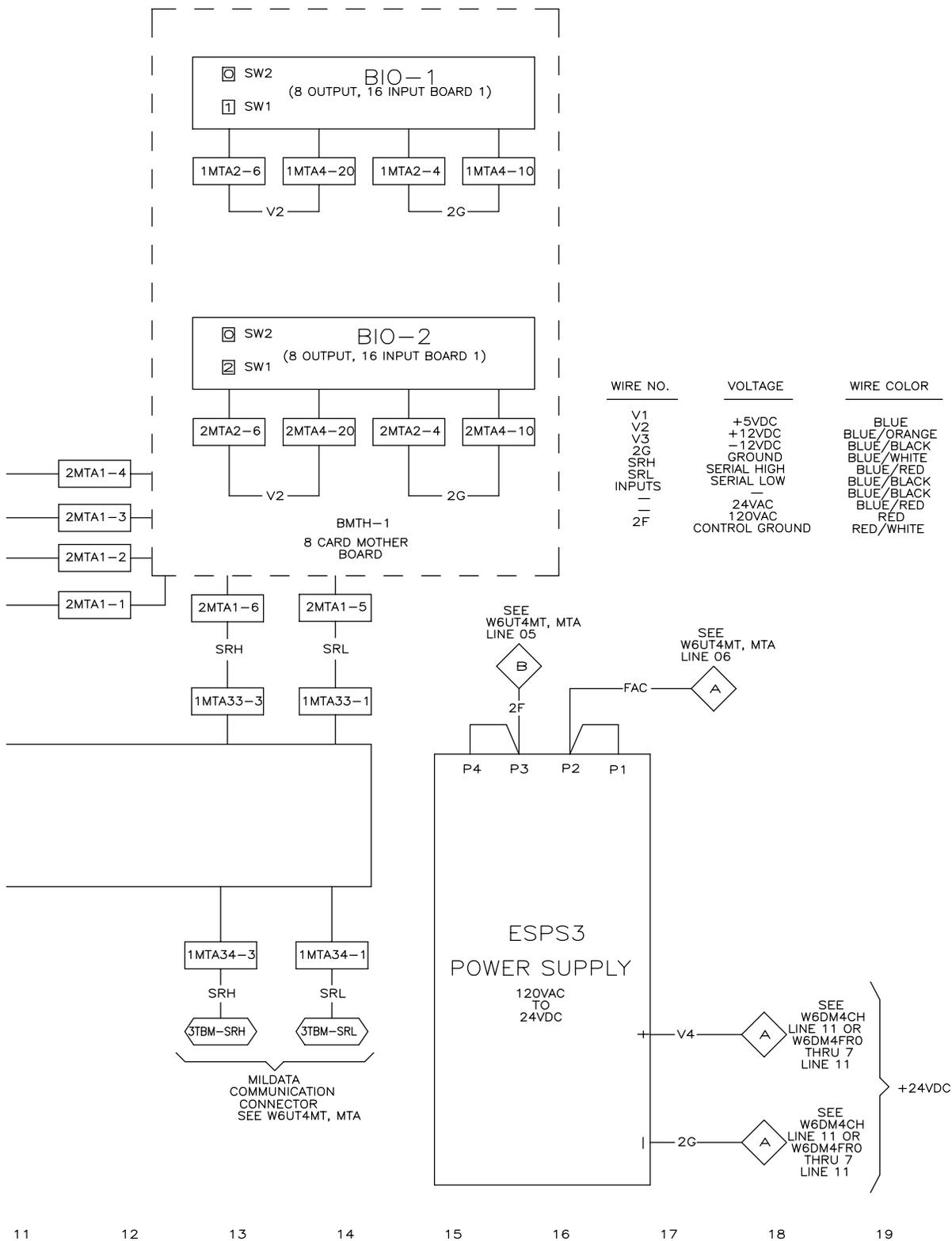
08

09

10

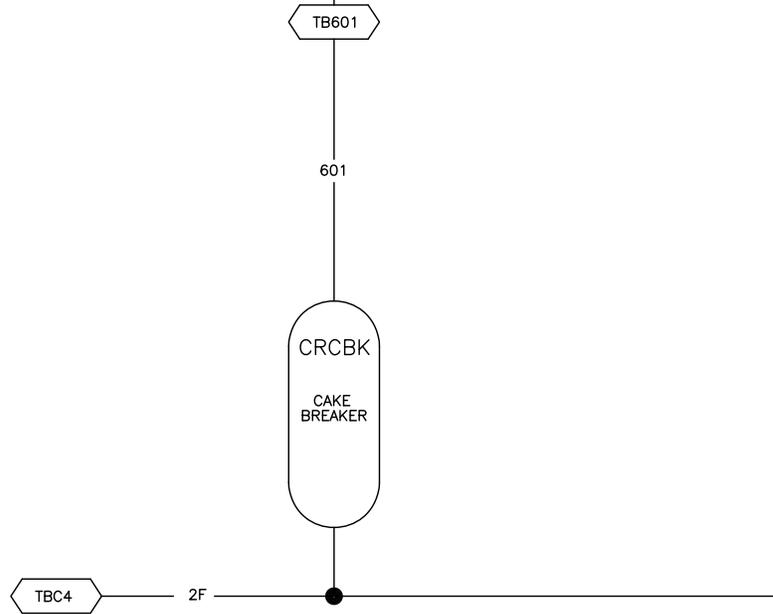
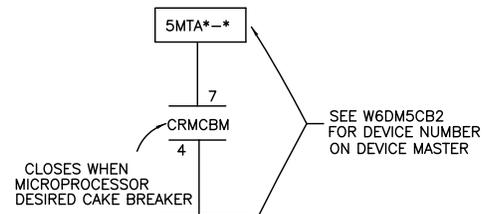
NOTES:

1. TBP IS THE TERMINAL STRIP IN THE REAR OF THE DEVICE MASTER CONSOLE.

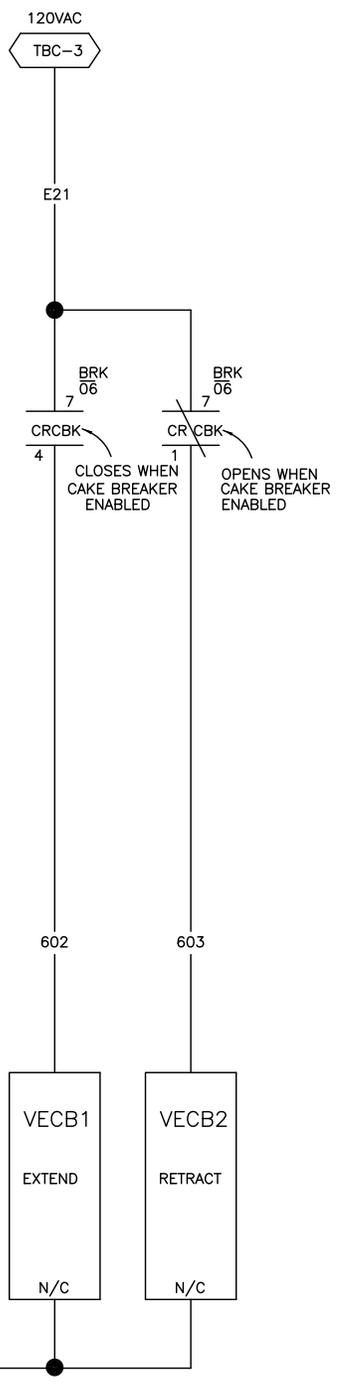


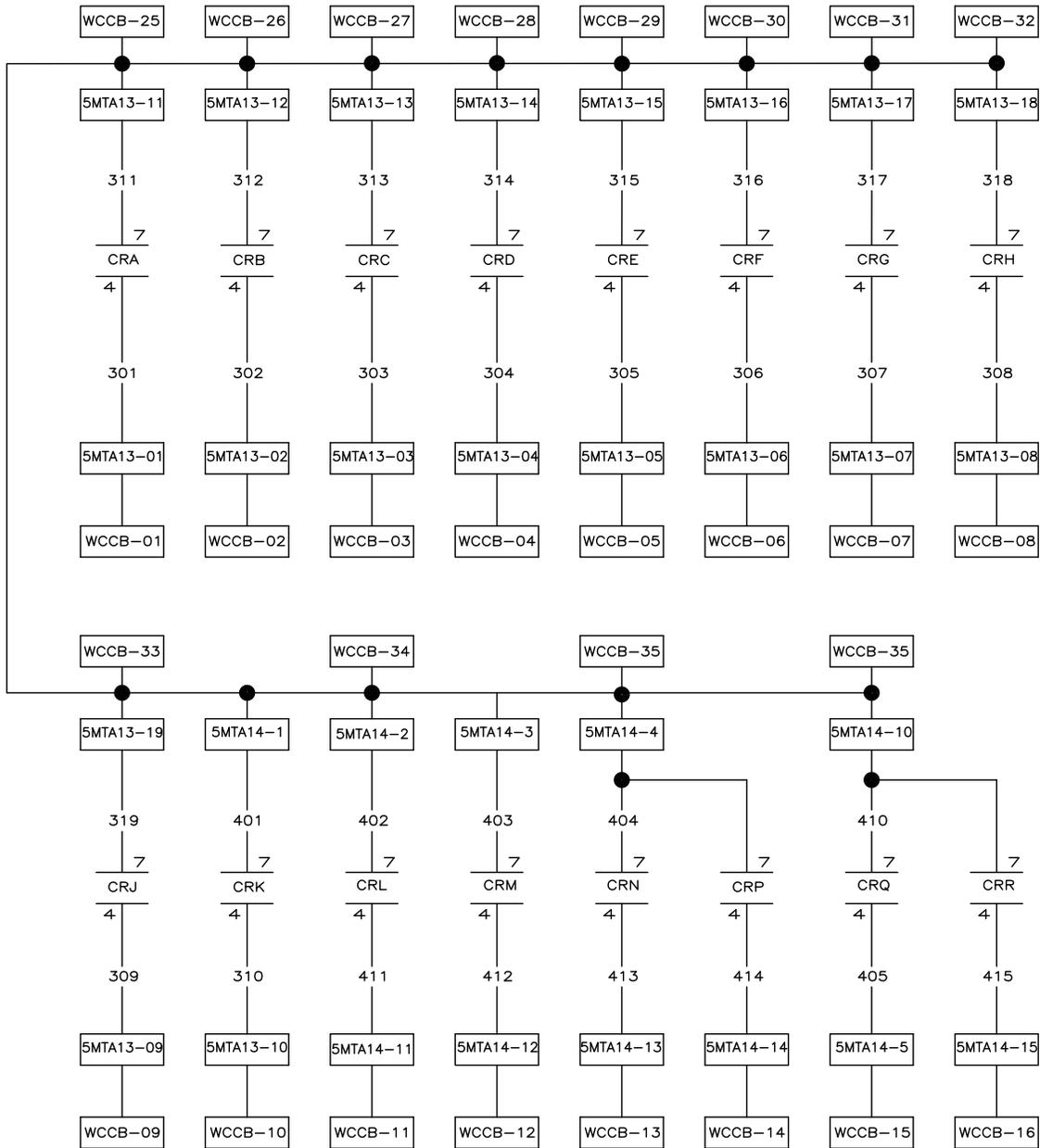
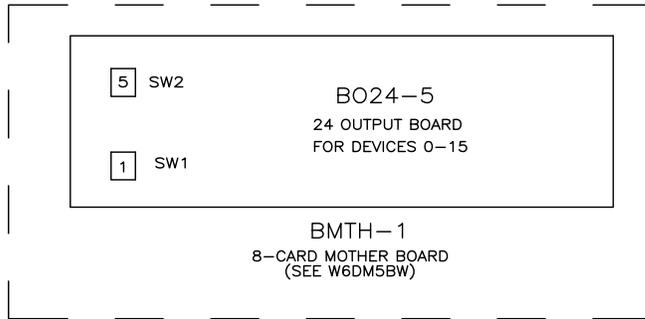
W6DM4BWB
 MICRO 6 SYSTEMS
 SCHEMATIC: P.C. DEVICE MASTER CONSOLE
 PELLERIN MILNOR CORPORATION

11 12 13 14 15 16 17 18 19



W6DM5CB1 CAKE BREAKER SCHEMATIC: CAKE BREAKER INTERFACE PELLERIN MILNOR CORPORATION





01

02

03

04

05

06

07

08

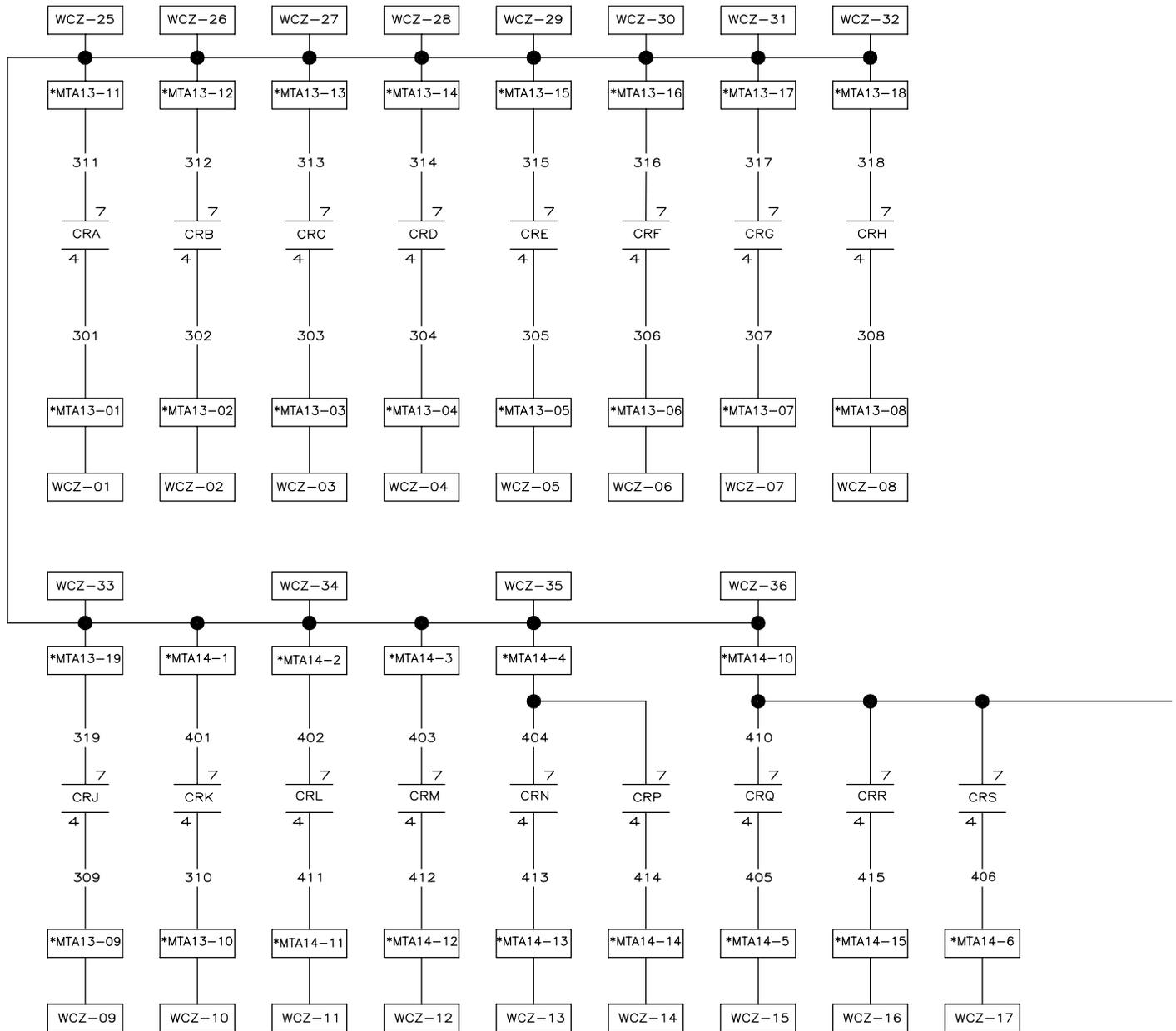
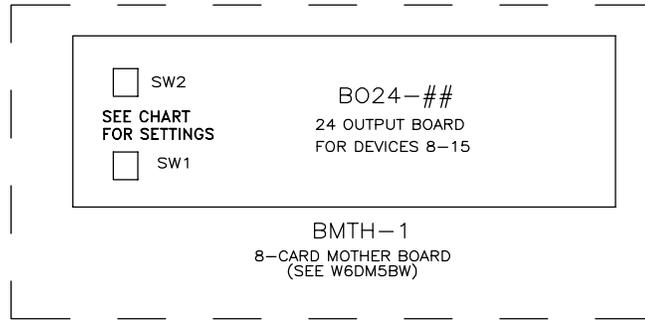
09

10

OUTPUT TABLE

OUTPUT NUMBER	OUTPUT NAME	OUTPUT FUNCTION
0	CRA	CAKE BREAKER DEVICE 0
1	CRB	CAKE BREAKER DEVICE 1
2	CRC	CAKE BREAKER DEVICE 2
3	CRD	CAKE BREAKER DEVICE 3
4	CRE	CAKE BREAKER DEVICE 4
5	CRF	CAKE BREAKER DEVICE 5
6	CRG	CAKE BREAKER DEVICE 6
7	CRH	CAKE BREAKER DEVICE 7
8	CRJ	CAKE BREAKER DEVICE 8
9	CRK	CAKE BREAKER DEVICE 9
10	CRL	CAKE BREAKER DEVICE 10
11	CRM	CAKE BREAKER DEVICE 11
12	CRN	CAKE BREAKER DEVICE 12
13	CRP	CAKE BREAKER DEVICE 13
14	CRQ	CAKE BREAKER DEVICE 14
15	CRR	CAKE BREAKER DEVICE 15

W6DM5CB2
MICRO 6 SYSTEMS
SCHEMATIC: DEVICE MASTER CAKE BREAKER OUTPUTS
(24 OUTPUT BOARD)
PELLERIN MILNOR CORPORATION



01 02 03 04 05 06 07 08 09 10

OUTPUT TABLE

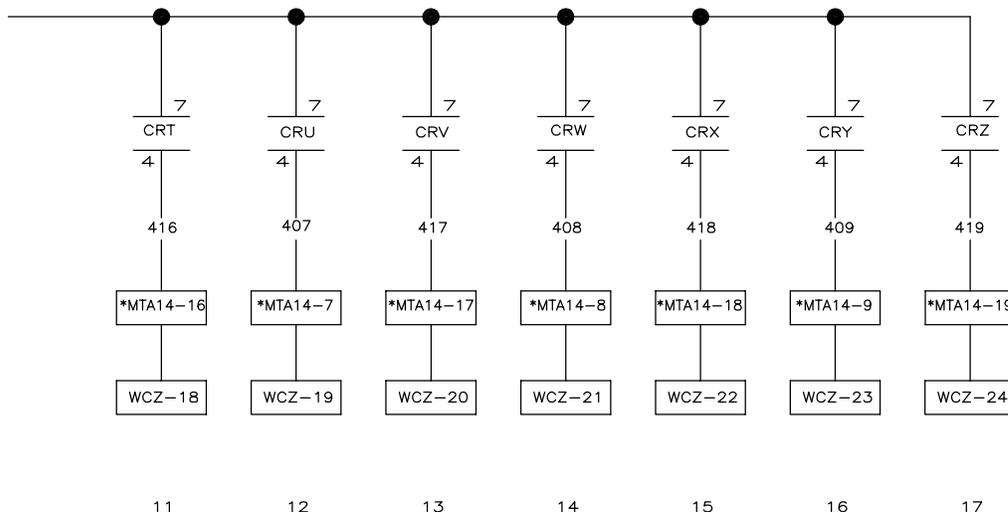
OUTPUT NUMBER	OUTPUT NAME	BOARD ADDRESS		BOARD ADDRESS		OUTPUT NUMBER	OUTPUT NAME	BOARD ADDRESS		BOARD ADDRESS	
		SW2	SW1	SW2	SW1			SW2	SW1	SW2	SW1
		1	A	9	A			1	A	9	A
0	CRA	FINISHED DISCHARGING DEVICE 0		FINISHED DISCHARGING DEVICE 8		12	CRN	FINISHED DISCHARGING DEVICE 6		FINISHED DISCHARGING DEVICE 14	
1	CRB	---		---		13	CRP	---		---	
2	CRC	FINISHED DISCHARGING DEVICE 1		FINISHED DISCHARGING DEVICE 9		14	CRQ	FINISHED DISCHARGING DEVICE 7		FINISHED DISCHARGING DEVICE 15	
3	CRD	---		---		15	CRR	---		---	
4	CRE	FINISHED DISCHARGING DEVICE 2		FINISHED DISCHARGING DEVICE 10		16	CRS	---		---	
5	CRF	---		---		17	CRT	---		---	
6	CRG	FINISHED DISCHARGING DEVICE 3		FINISHED DISCHARGING DEVICE 11		18	CRU	---		---	
7	CRH	---		---		19	CRV	---		---	
8	CRJ	FINISHED DISCHARGING DEVICE 4		FINISHED DISCHARGING DEVICE 12		20	CRW	---		---	
9	CRK	---		---		21	CRX	---		---	
10	CRL	FINISHED DISCHARGING DEVICE 5		FINISHED DISCHARGING DEVICE 13		22	CRY	---		---	
11	CRM	---		---		23	CRZ	---		---	

DEVICE NUMBER	BOARD ADDRESS	
	SW2	SW1
0		
1		
2		
3	1	A
4		
5		
6		
7		
8		
9		
10		
11	9	A
12		
13		
14		
15		

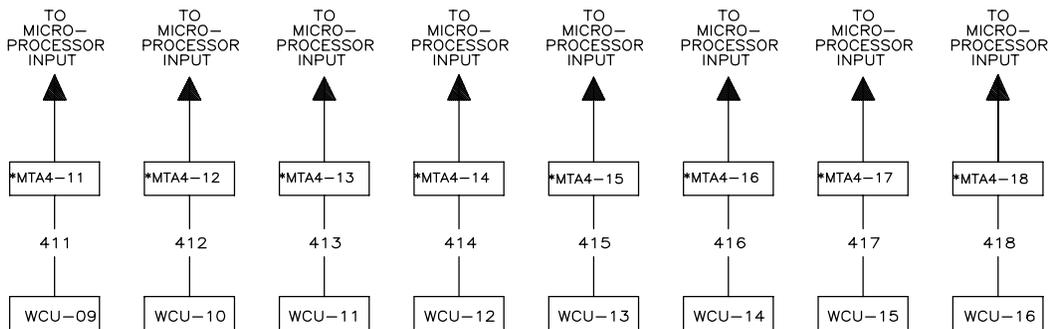
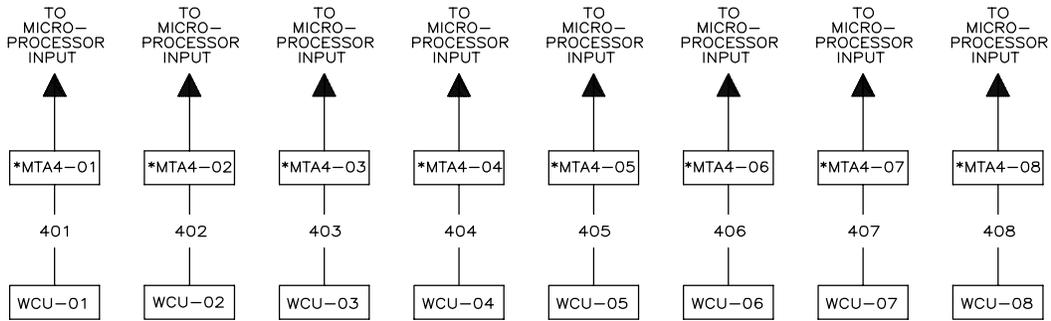
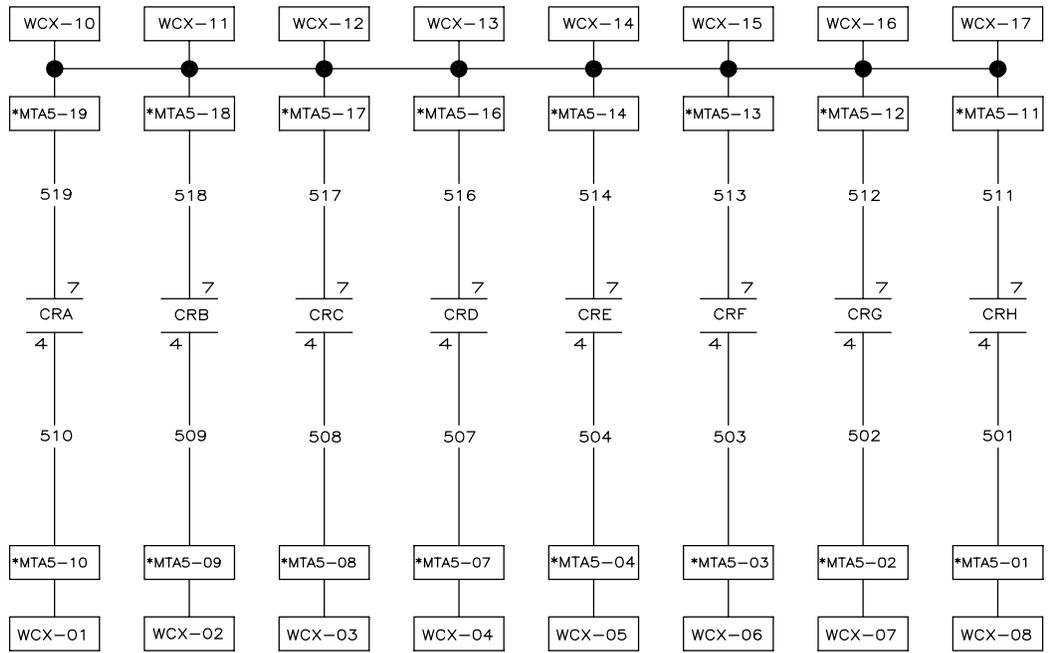
W6DM5DF

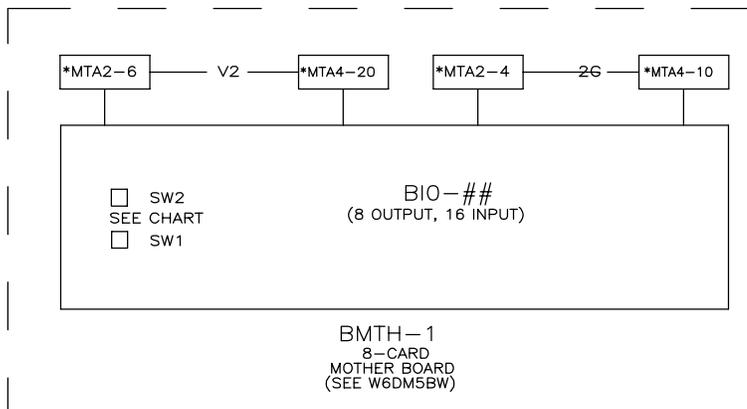
MICRO 6 SYSTEMS
SCHEMATIC: DEVICE MASTER DEVICE FINISHED
DISCHARGING (24 OUTPUT)

PELLERIN MILNOR CORPORATION



- NOTE:**
1. THE BOARD WIRING SHOWN IS TYPICAL. REFER TO THE DIP SWITCH CHART FOR CORRECT DIP SWITCH SETTING FOR EACH DEVICE
 2. THE ASTERISK (*) IN THE MTA DESIGNATION REPRESENTS THE BOARD ADDRESS AS GIVEN ON THE OUTPUT TABLE
 3. REFER TO THE OUTPUT TABLE FOR A FUNCTIONAL DESCRIPTION OF THE OUTPUTS FOR EACH BOARD ADDRESS.





DEVICE NUMBER	BOARD ADDRESS	
	SW2	SW1
0	0	0
1		
2		
3		
4		
5		
6		
7		
8	8	0
9		
10		
11		
12		
13		
14		
15		

		BOARD ADDRESS		BOARD ADDRESS	
		SW2	SW1	SW2	SW1
		0	0	8	0
INPUT NUMBER	INPUT NAME	INPUT FUNCTION		INPUT FUNCTION	
0	401	BELT 0 FULLY EXTENDED		BELT 8 FULLY EXTENDED	
1	402	BELT 0 FULLY RETRACTED		BELT 8 FULLY RETRACTED	
2	403	BELT 1 FULLY EXTENDED		BELT 9 FULLY EXTENDED	
3	404	BELT 1 FULLY RETRACTED		BELT 9 FULLY RETRACTED	
4	405	BELT 2 FULLY EXTENDED		BELT 10 FULLY EXTENDED	
5	406	BELT 2 FULLY RETRACTED		BELT 10 FULLY RETRACTED	
6	407	BELT 3 FULLY EXTENDED		BELT 11 FULLY EXTENDED	
7	408	BELT 3 FULLY RETRACTED		BELT 11 FULLY RETRACTED	
8	411	BELT 4 FULLY EXTENDED		BELT 12 FULLY EXTENDED	
9	412	BELT 4 FULLY RETRACTED		BELT 12 FULLY RETRACTED	
10	413	BELT 5 FULLY EXTENDED		BELT 13 FULLY EXTENDED	
11	414	BELT 5 FULLY RETRACTED		BELT 13 FULLY RETRACTED	
12	415	BELT 6 FULLY EXTENDED		BELT 14 FULLY EXTENDED	
13	416	BELT 6 FULLY RETRACTED		BELT 14 FULLY RETRACTED	
14	417	BELT 7 FULLY EXTENDED		BELT 15 FULLY EXTENDED	
15	418	BELT 7 FULLY RETRACTED		BELT 15 FULLY RETRACTED	

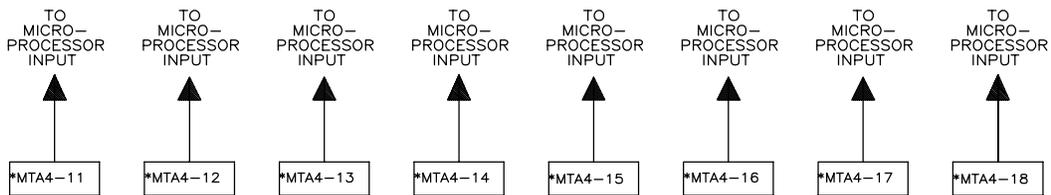
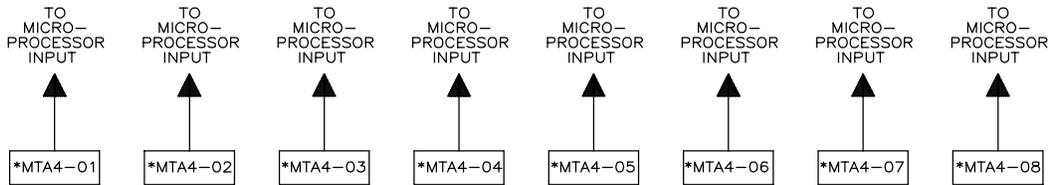
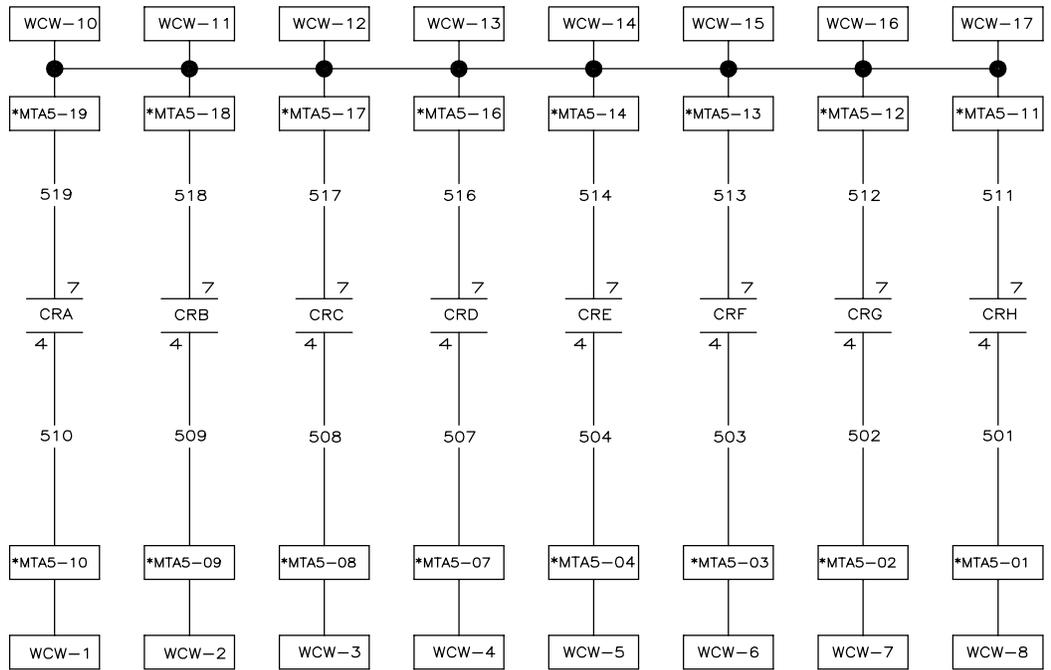
		BOARD ADDRESS		BOARD ADDRESS	
		SW2	SW1	SW2	SW1
		0	0	8	0
OUTPUT NUMBER	OUTPUT NAME	OUTPUT FUNCTION		OUTPUT FUNCTION	
0	CRA	EXTEND BELT 0		EXTEND BELT 8	
1	CRB	EXTEND BELT 1		EXTEND BELT 9	
2	CRC	EXTEND BELT 2		EXTEND BELT 10	
3	CRD	EXTEND BELT 3		EXTEND BELT 11	
4	CRE	EXTEND BELT 4		EXTEND BELT 12	
5	CRF	EXTEND BELT 5		EXTEND BELT 13	
6	CRG	EXTEND BELT 6		EXTEND BELT 14	
7	CRH	EXTEND BELT 7		EXTEND BELT 15	

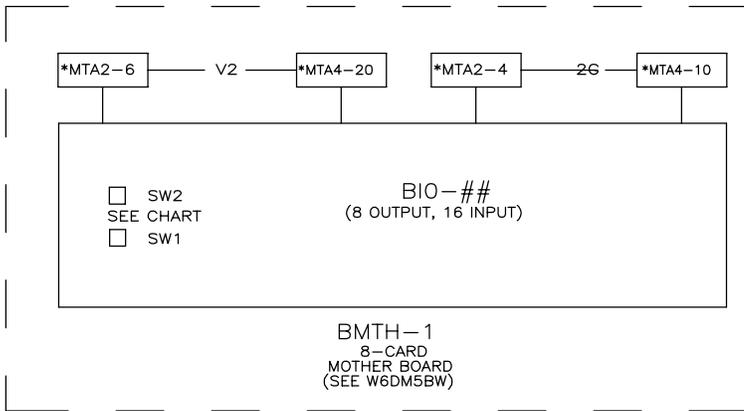
- NOTE:**
1. THE BOARD WIRING SHOWN IS TYPICAL. REFER TO THE DIP SWITCH SETTINGS CHART FOR THE CORRECT DIP SWITCH SETTINGS FOR EACH DEVICE.
 2. THE ASTERISK (*) IN THE MTA DESIGNATION REPRESENTS THE BOARD ADDRESS AS GIVEN IN THE DIP SWITCH SETTING CHART.
 3. REFER TO THE OUTPUT TABLE FOR A FUNCTIONAL DESCRIPTION OF THE OUTPUTS FOR EACH BOARD ADDRESS.
 4. REFER TO THE INPUT TABLE FOR A FUNCTIONAL DESCRIPTION OF THE INPUTS FOR EACH BOARD ADDRESS.

W6DM5EB
 MICRO 6 SYSTEMS
 DEVICE MASTER
 SCHEMATIC: EXTEND BELT
 (8 OUTPUT - 16 INPUT)

W6DM5EB
2007155B

PELLERIN MILNOR CORPORATION





DEVICE NUMBER	BOARD ADDRESS	
	SW2	SW1
0	0	5
1		
2		
3		
4		
5		
6		
7		
8	8	5
9		
10		
11		
12		
13		
14		
15		

OUTPUT NUMBER	OUTPUT NAME	BOARD ADDRESS		BOARD ADDRESS	
		SW2	SW1	SW2	SW1
		0	5	8	5
OUTPUT NUMBER	OUTPUT NAME	OUTPUT FUNCTION	OUTPUT FUNCTION	OUTPUT FUNCTION	OUTPUT FUNCTION
0	CRA	FLAG DOWN BELT 0	FLAG DOWN BELT 8		
1	CRB	FLAG DOWN BELT 1	FLAG DOWN BELT 9		
2	CRC	FLAG DOWN BELT 2	FLAG DOWN BELT 10		
3	CRD	FLAG DOWN BELT 3	FLAG DOWN BELT 11		
4	CRE	FLAG DOWN BELT 4	FLAG DOWN BELT 12		
5	CRF	FLAG DOWN BELT 5	FLAG DOWN BELT 13		
6	CRG	FLAG DOWN BELT 6	FLAG DOWN BELT 14		
7	CRH	FLAG DOWN BELT 7	FLAG DOWN BELT 15		

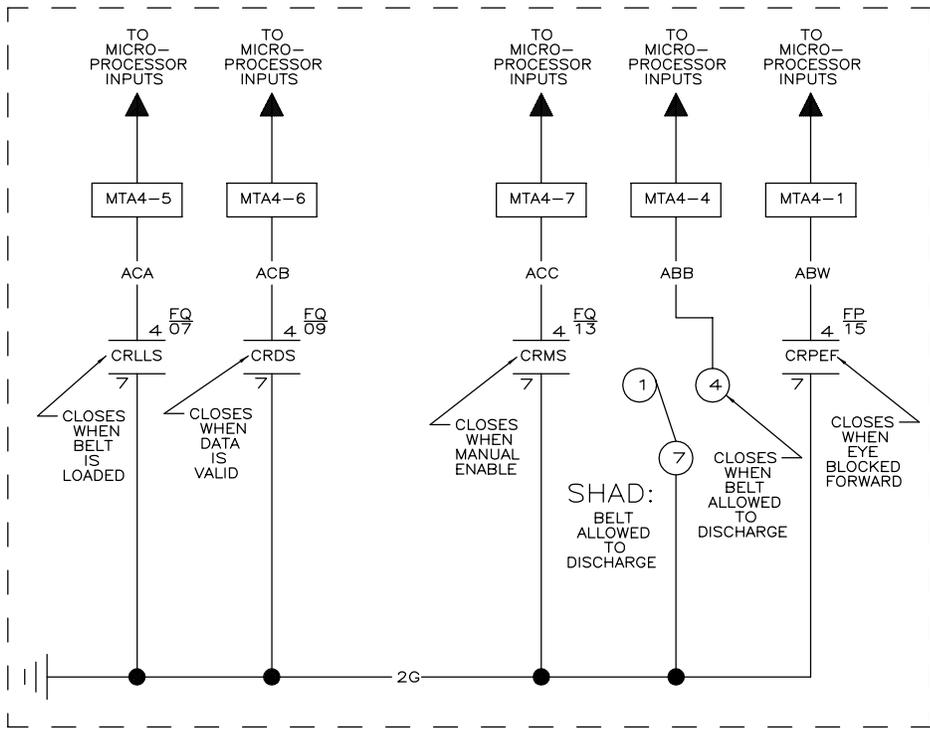
NOTE:

1. THE BOARD WIRING SHOWN IS TYPICAL. REFER TO THE DIP SWITCH SETTINGS CHART FOR THE CORRECT DIP SWITCH SETTINGS FOR EACH DEVICE.
2. THE ASTERISK (*) IN THE MTA DESIGNATION REPRESENTS THE BOARD ADDRESS AS GIVEN IN THE DIP SWITCH SETTING CHART.
3. REFER TO THE OUTPUT TABLE FOR A FUNCTIONAL DESCRIPTION OF THE OUTPUTS FOR EACH BOARD ADDRESS.
4. THE INPUTS FOR THESE BOARD ADDRESSES ARE NOT CURRENTLY USED.

W6DM5FD
 MICRO 6 SYSTEMS
 DEVICE MASTER
 SCHEMATIC: FLAG DOWN
 (8 OUTPUT - 16 INPUT)

PELLERIN MILNOR CORPORATION

W6DM5FD
2007155B



00 01 02 03 04 05 06 07

	FQ06
	RR06
	RR06

	FP12
	RR12
	RR12

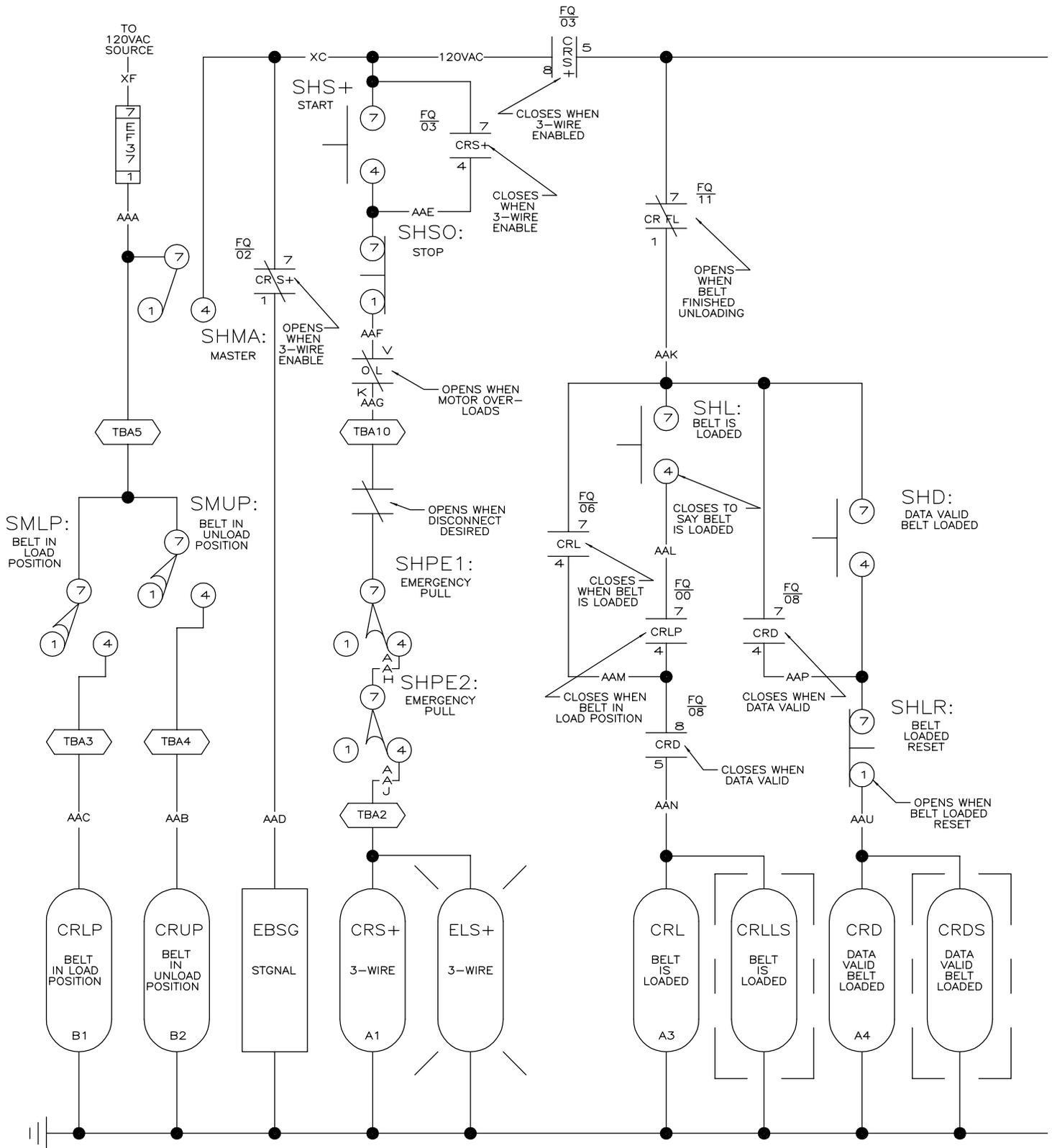
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	FQ04
	FQ05

	FQ05
	RR03
	RR03

	FR01
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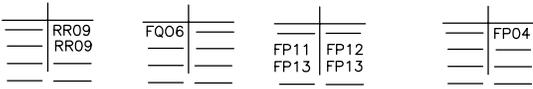
	FR07
	FR06

	FR02
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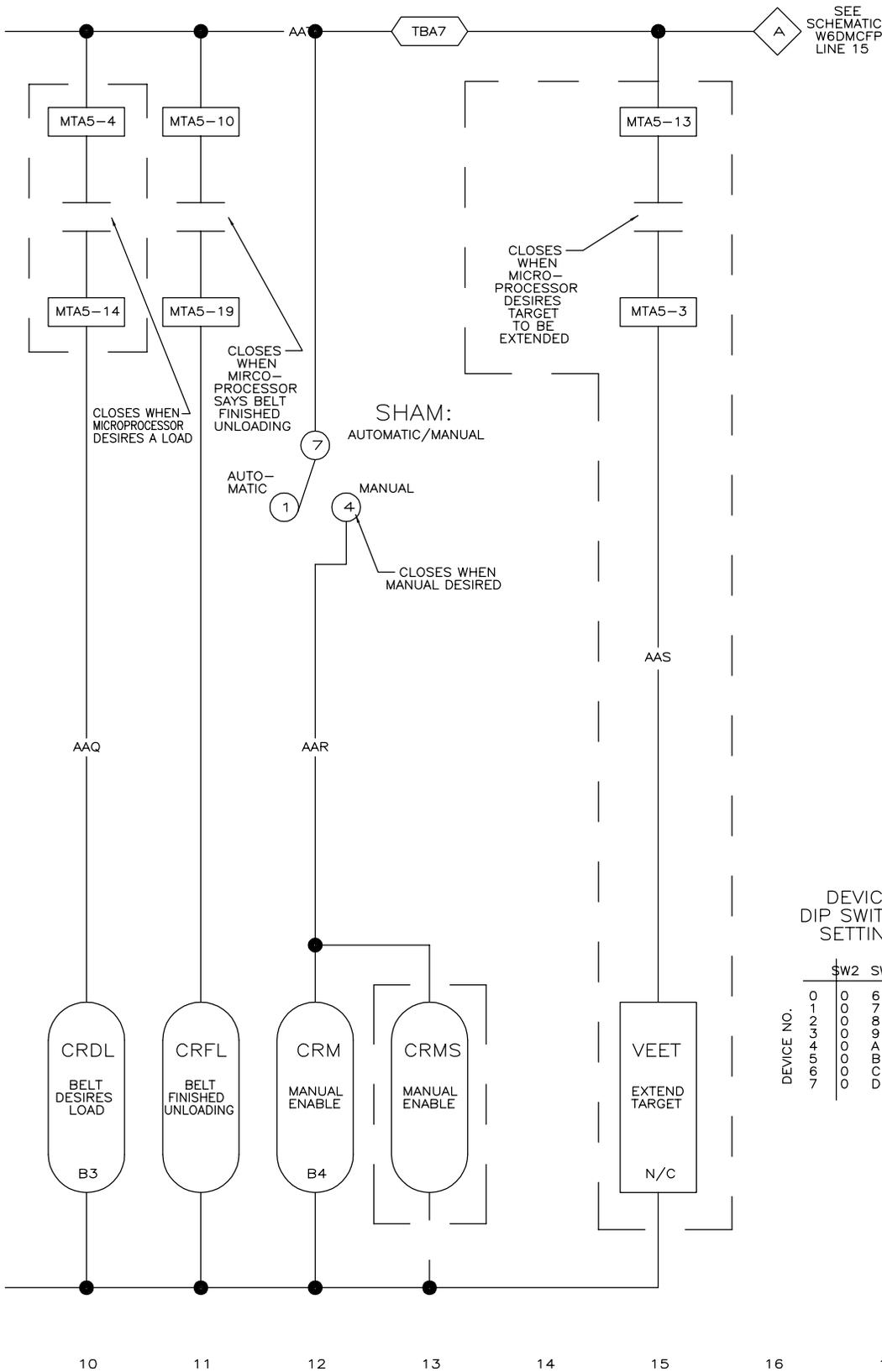


W6DM4EQ-
2012235B

00 01 02 03 04 05 06 07 08 09



W6DM4FQ
2012235B

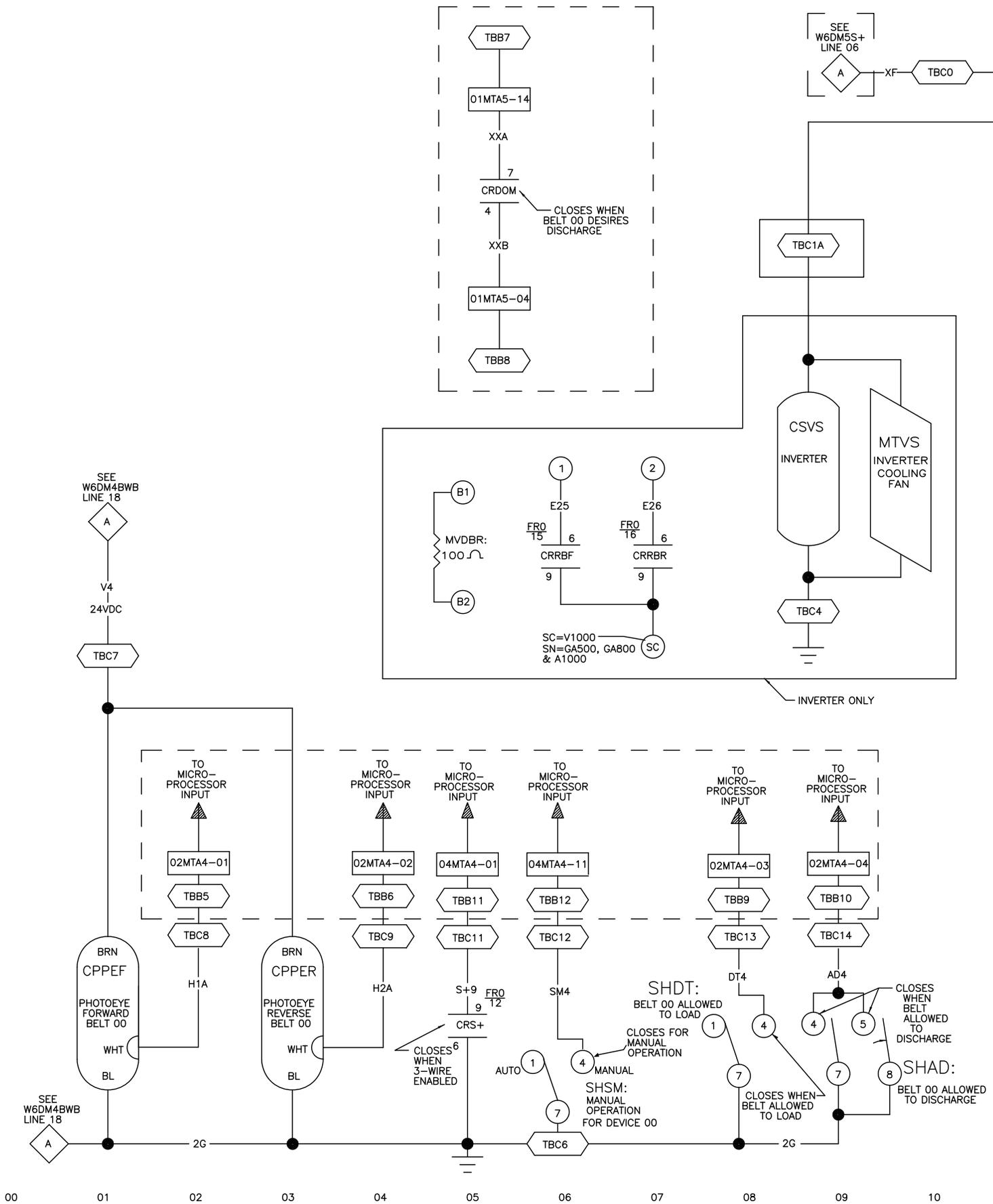


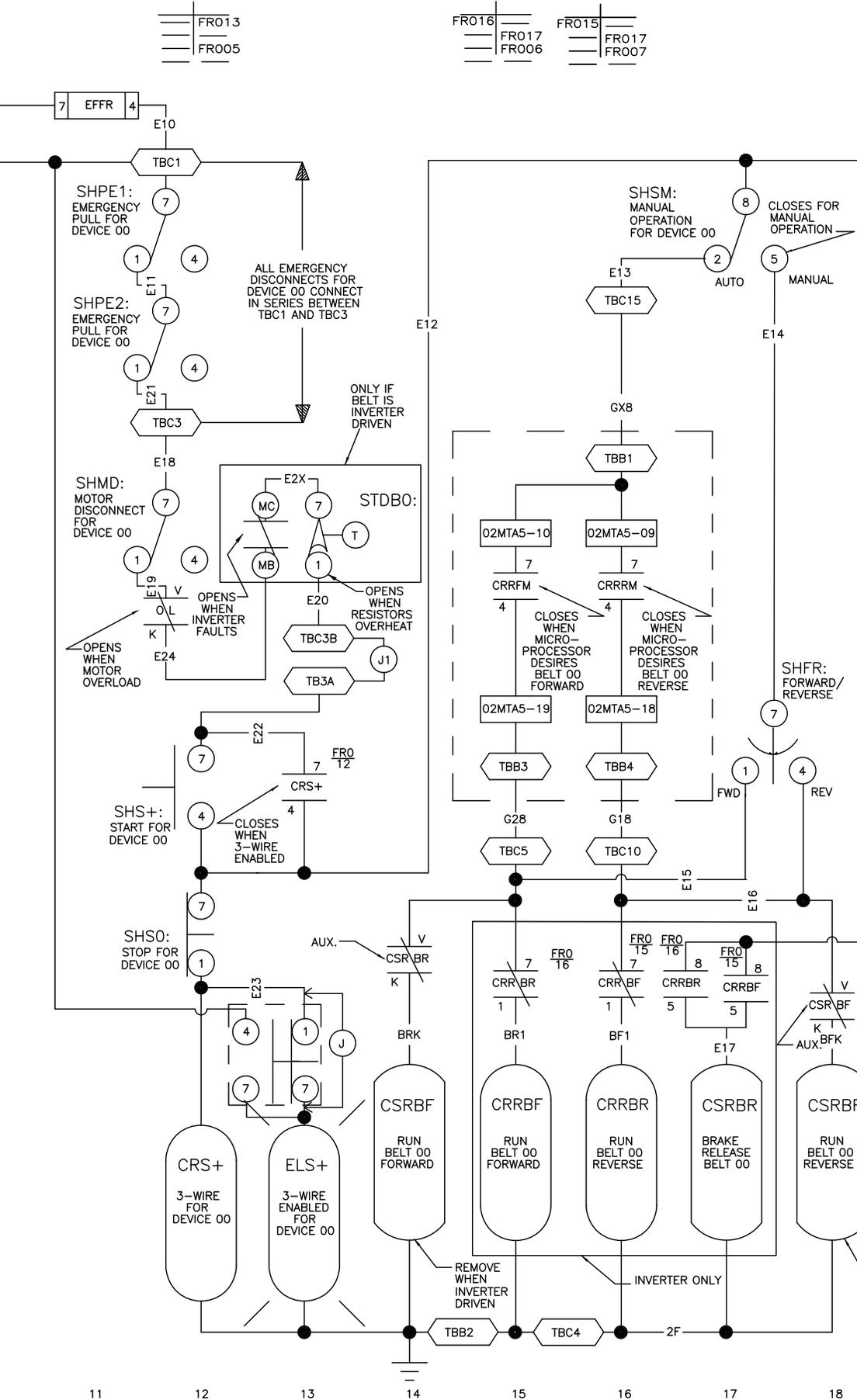
W6DM4FQ
 MICRO 6 SYSTEMS
 SCHEMATIC: BELT CONTROLS FOR DEVICE MASTER
 LOADING BELT
 110V50HZ/120V60HZ
 PELLERIN MILNOR CORPORATION

DEVICE DIP SWITCH SETTING

DEVICE NO.	SW2	SW1
1	0	0
2	0	0
3	0	0
4	0	0
5	0	0
6	0	0
7	0	0
8	0	0
9	0	0
A	0	0

W6DM4FQ
2012235B

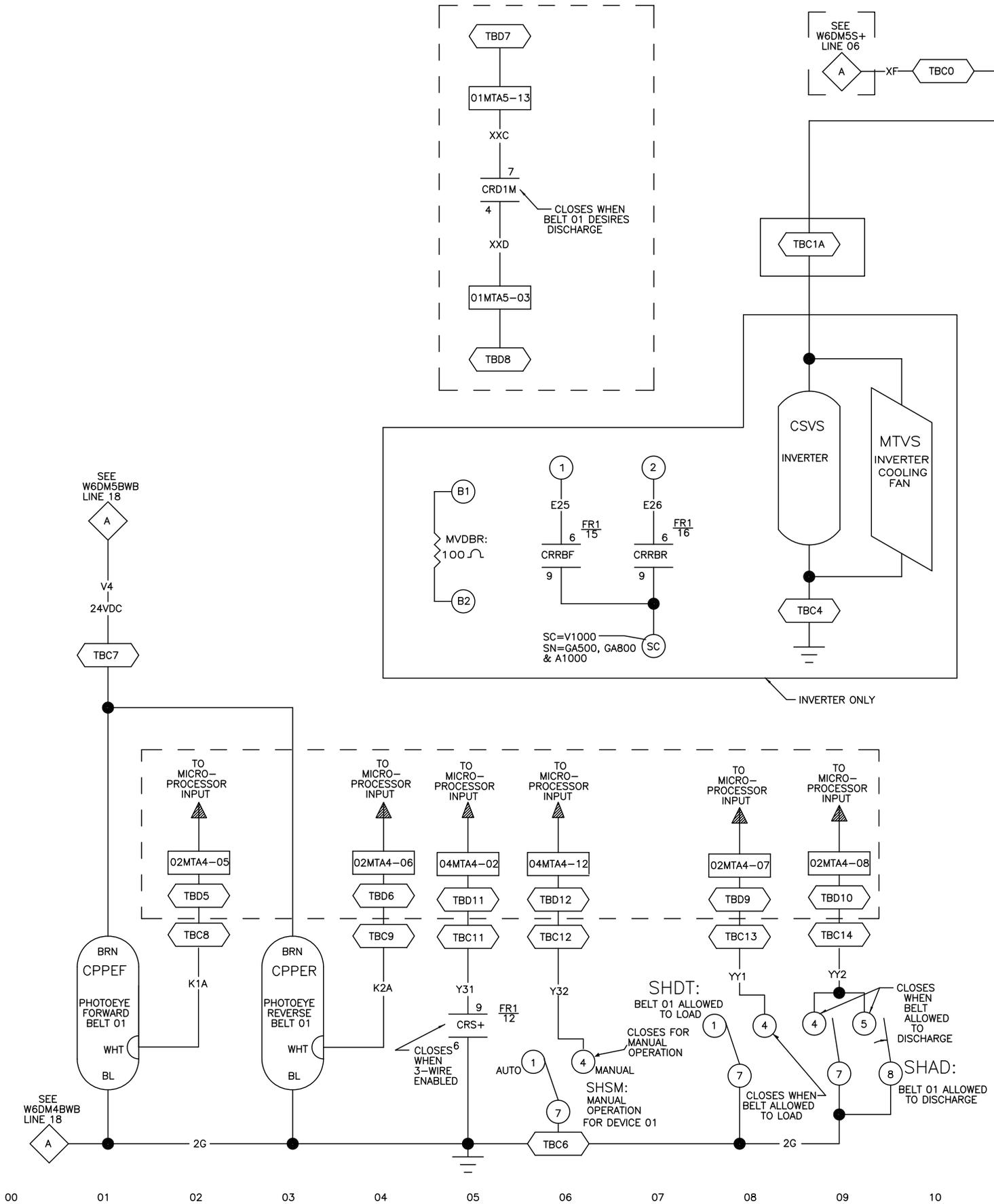


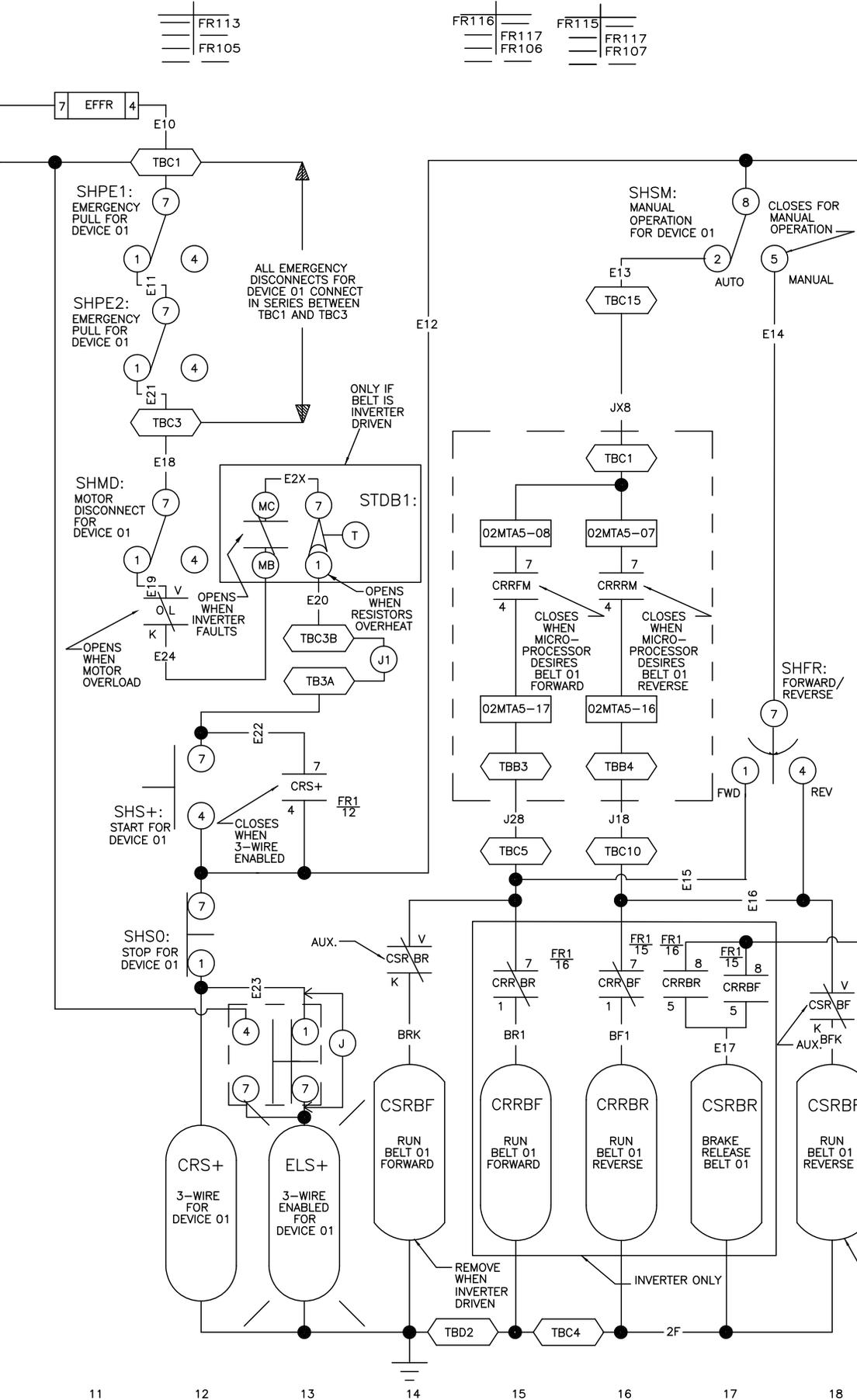


W6DM5FRO
MICRO 6 SYSTEMS
SCHEMATIC: CONTROLS FOR
FORWARD & REVERSE
FOR BELT 0
110V1P50HZ/120V60HZ
PELLERIN MILNOR CORPORATION

- NOTES:
1. TB FOLLOWED BY LETTER THEN DEVICE NUMBER IS LOCATED IN THE MULTITRAC CONTROL BOX OR THE DEVICE MASTER CONTROL BOX.
 2. TBC IS LOCATED IN THE BELT REVERSING CONTROL BOX.
 3. DOTTED LINES INDICATE THAT CONTROLS ARE LOCATED IN THE MULTITRAC CONTROL BOX.
 4. FORWARD INDICATES THE FLOW OF GOODS
 5. 01MTA5 IS LOCATED ON BIO-01
 6. 02MTA4 AND 02MTA5 ARE LOCATED ON BIO-02
 7. 04MTA4 IS LOCATED ON BIO-04
 8. REMOVE (J1) IF SLAVE BELT IS ADDED.
 9. REMOVE (J) FOR LAMP TEST OPTION

11 12 13 14 15 16 17 18 19

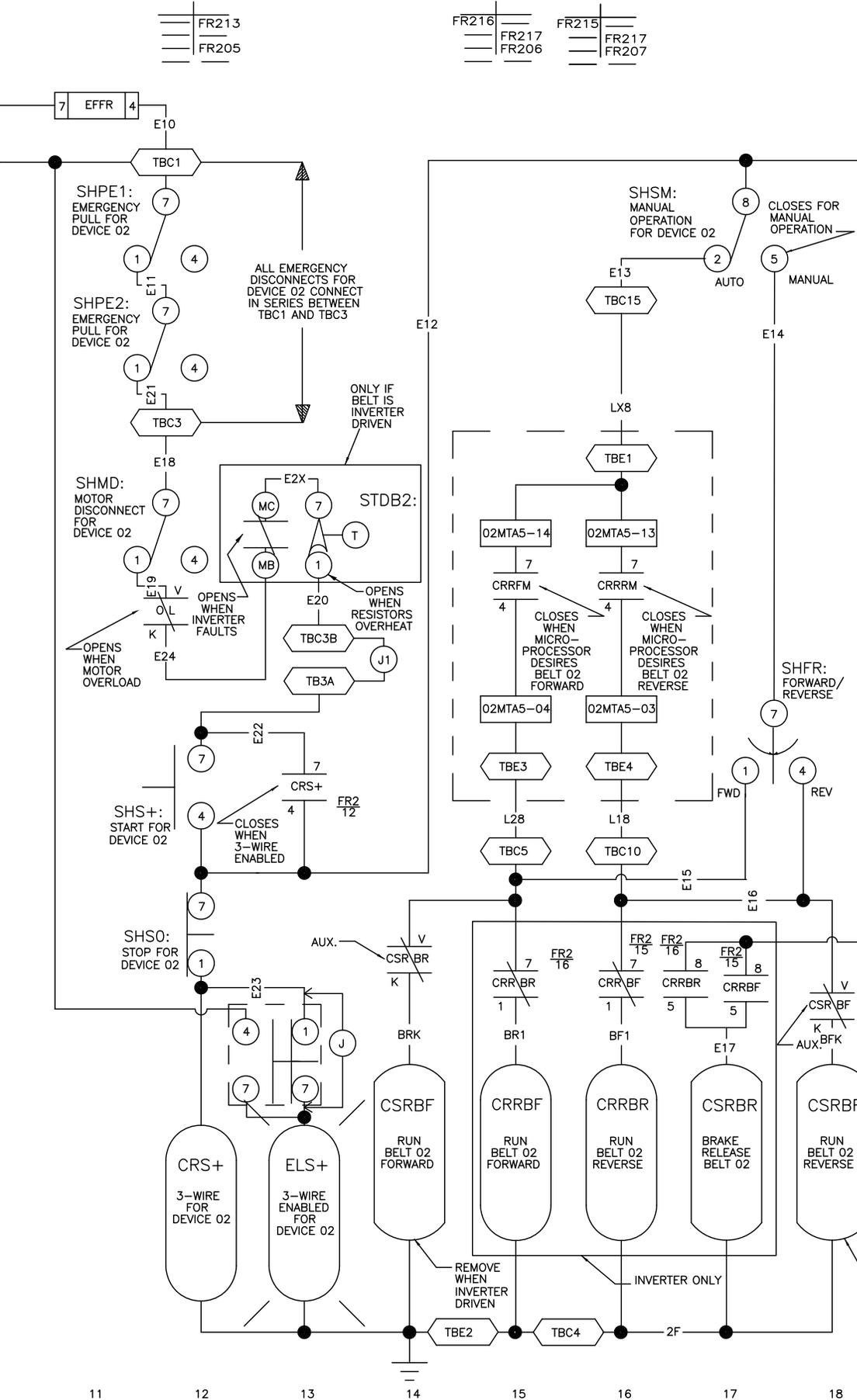




W6DM5FR1
MICRO 6 SYSTEMS
SCHEMATIC: CONTROLS FOR
FORWARD & REVERSE
FOR BELT 1
110V1P50HZ/120V60HZ
PELLERIN MILNOR CORPORATION

- NOTES:
1. TB FOLLOWED BY LETTER THEN DEVICE NUMBER IS LOCATED IN THE MULTITRAC CONTROL BOX OR THE DEVICE MASTER CONTROL BOX.
 2. TBC IS LOCATED IN THE BELT REVERSING CONTROL BOX.
 3. DOTTED LINES INDICATE THAT CONTROLS ARE LOCATED IN THE MULTITRAC CONTROL BOX.
 4. FORWARD INDICATES THE FLOW OF GOODS
 5. 01MTA5 IS LOCATED ON BIO-01
 6. 02MTA4 AND 02MTA5 ARE LOCATED ON BIO-02
 7. 04MTA4 IS LOCATED ON BIO-04
 8. REMOVE (J1) IF SLAVE BELT IS ADDED.
 9. REMOVE (J) FOR LAMP TEST OPTION

11 12 13 14 15 16 17 18 19

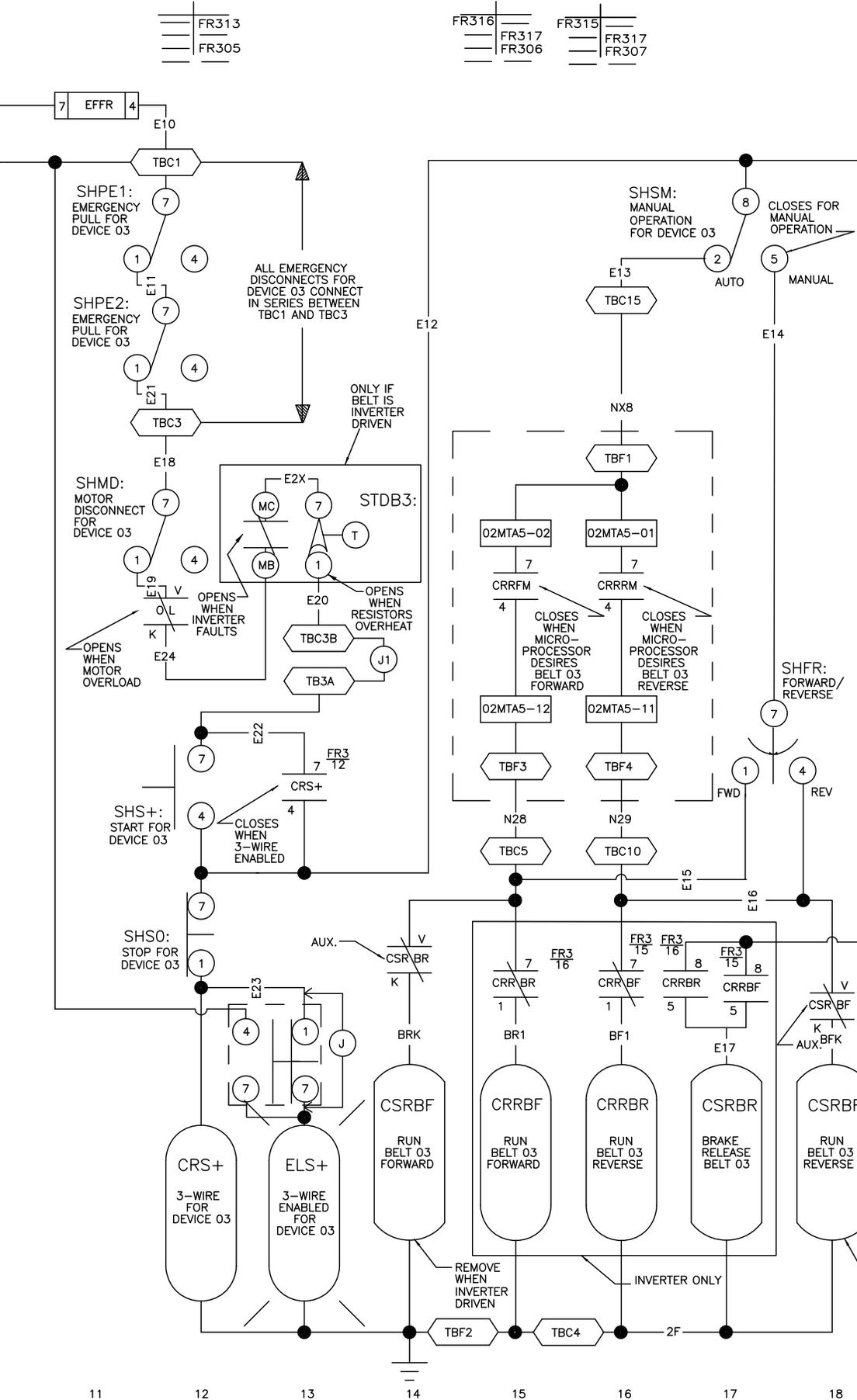


W6DM5FR2
MICRO 6 SYSTEMS
SCHEMATIC: CONTROLS FOR
FORWARD & REVERSE
FOR BELT 2
110V1P50HZ/120V60HZ
PELLERIN MILNOR CORPORATION

NOTES:

1. TB FOLLOWED BY LETTER THEN DEVICE NUMBER IS LOCATED IN THE MULTITRAC CONTROL BOX OR THE DEVICE MASTER CONTROL BOX.
2. TBC IS LOCATED IN THE BELT REVERSING CONTROL BOX.
3. DOTTED LINES INDICATE THAT CONTROLS ARE LOCATED IN THE MULTITRAC CONTROL BOX.
4. FORWARD INDICATES THE FLOW OF GOODS
5. 01MTA5 IS LOCATED ON BIO-01
6. 02MTA4 AND 02MTA5 ARE LOCATED ON BIO-02
7. 04MTA4 IS LOCATED ON BIO-04
8. REMOVE (J1) IF SLAVE BELT IS ADDED.
9. REMOVE (J) FOR LAMP TEST OPTION

11 12 13 14 15 16 17 18 19



W6DM5FR3

MICRO 6 SYSTEMS

SCHEMATIC: CONTROLS FOR FORWARD & REVERSE FOR BELT 3

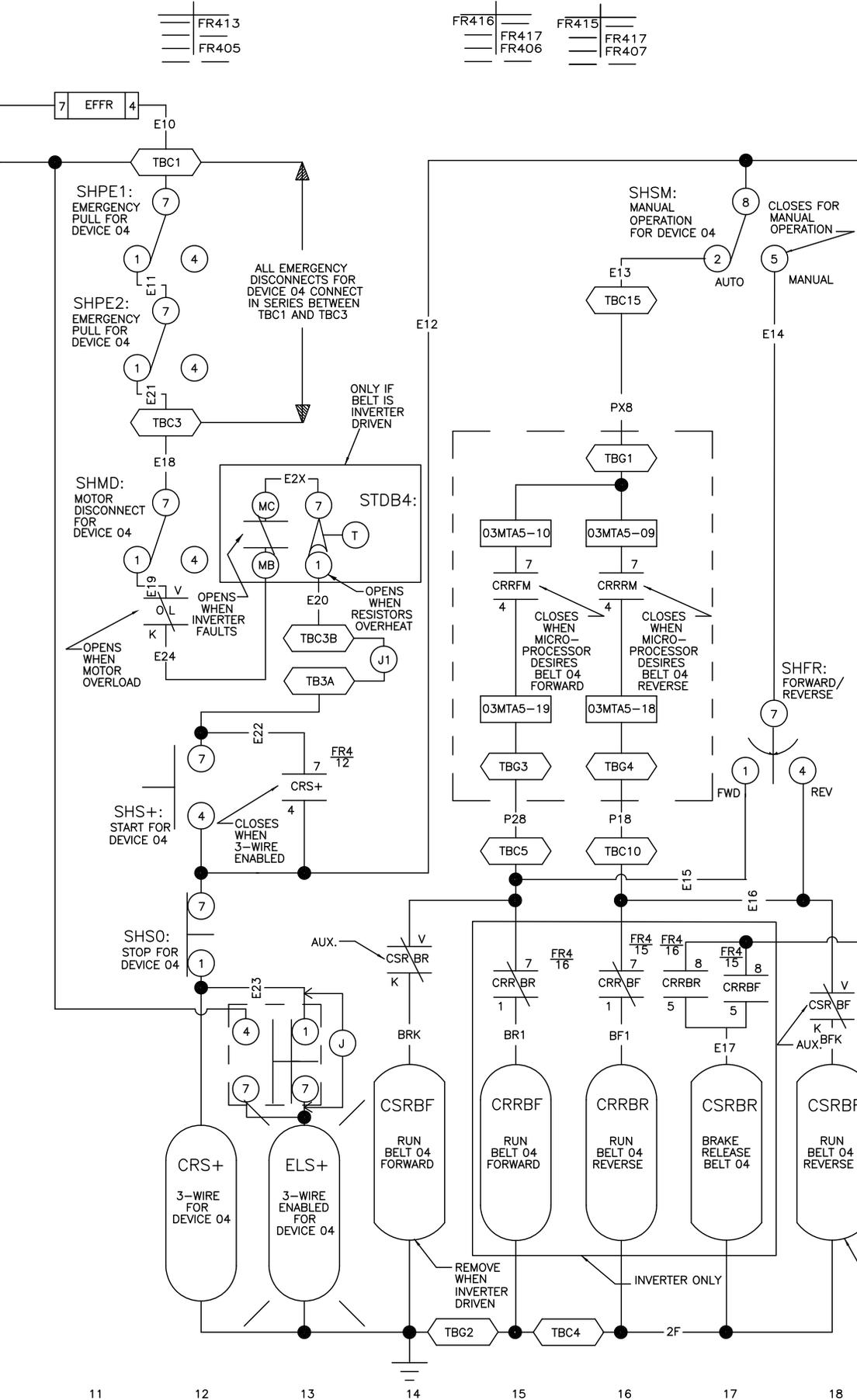
110V1P50HZ/120V60HZ

PELLERIN MILNOR CORPORATION

NOTES:

1. TB FOLLOWED BY LETTER THEN DEVICE NUMBER IS LOCATED IN THE MULTITRAC CONTROL BOX OR THE DEVICE MASTER CONTROL BOX.
2. TBC IS LOCATED IN THE BELT REVERSING CONTROL BOX.
3. DOTTED LINES INDICATE THAT CONTROLS ARE LOCATED IN THE MULTITRAC CONTROL BOX.
4. FORWARD INDICATES THE FLOW OF GOODS
5. 01MTA5 IS LOCATED ON BIO-01
6. 02MTA4 AND 02MTA5 ARE LOCATED ON BIO-02
7. 04MTA4 IS LOCATED ON BIO-04
8. REMOVE (J1) IF SLAVE BELT IS ADDED.
9. REMOVE (J) FOR LAMP TEST OPTION

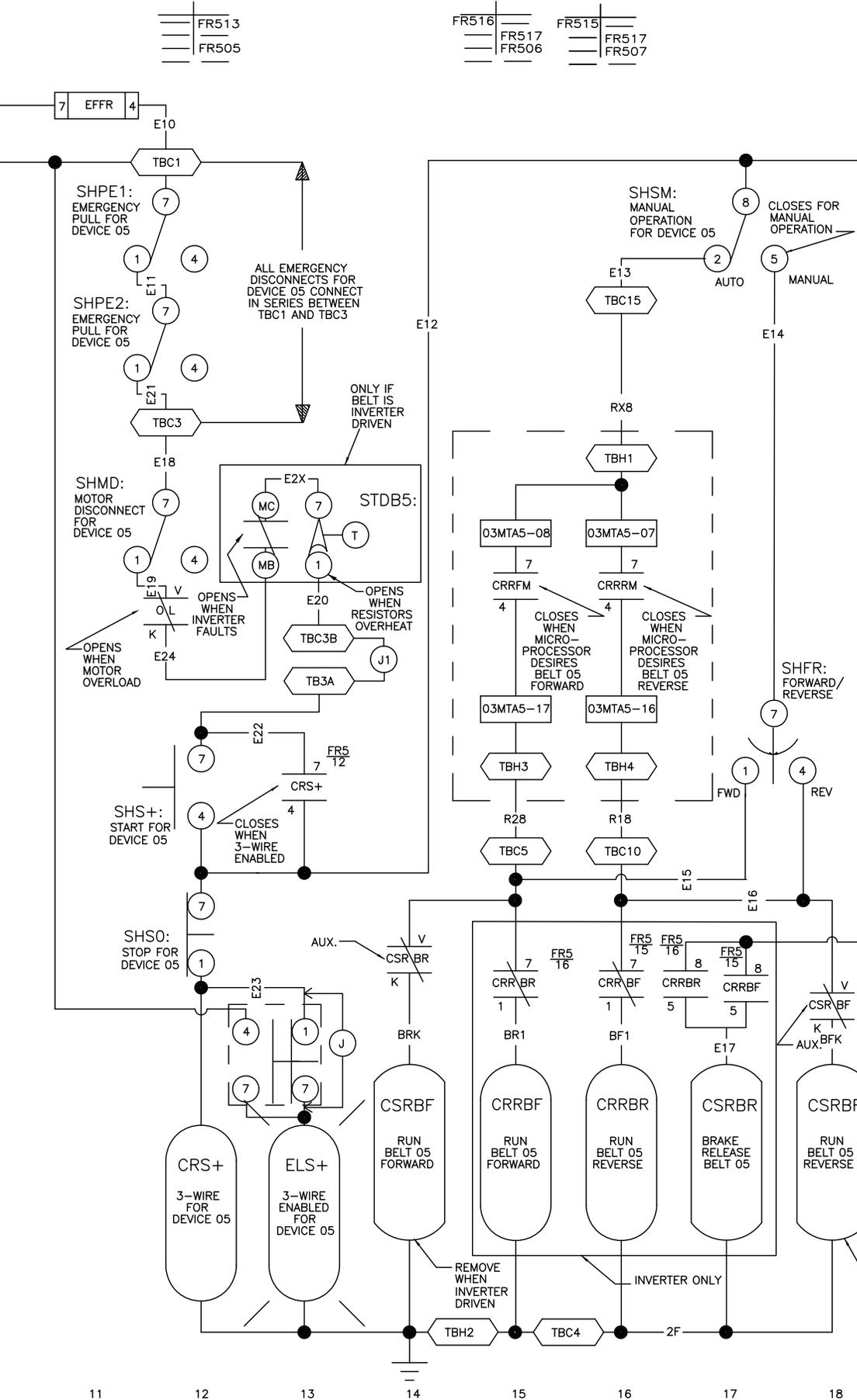
11 12 13 14 15 16 17 18 19



W6DM5FR4
MICRO 6 SYSTEMS
SCHEMATIC: CONTROLS FOR
FORWARD & REVERSE
FOR BELT 4
110V1P50HZ/120V60HZ
PELLERIN MILNOR CORPORATION

- NOTES:
1. TB FOLLOWED BY LETTER THEN DEVICE NUMBER IS LOCATED IN THE MULTITRAC CONTROL BOX OR THE DEVICE MASTER CONTROL BOX.
 2. TBC IS LOCATED IN THE BELT REVERSING CONTROL BOX.
 3. DOTTED LINES INDICATE THAT CONTROLS ARE LOCATED IN THE MULTITRAC CONTROL BOX.
 4. FORWARD INDICATES THE FLOW OF GOODS
 5. 01MTA5 IS LOCATED ON BIO-01
 6. 03MTA4 AND 03MTA5 ARE LOCATED ON BIO-02
 7. 04MTA4 IS LOCATED ON BIO-04
 8. REMOVE (J1) IF SLAVE BELT IS ADDED.
 9. REMOVE (J) FOR LAMP TEST OPTION

11 12 13 14 15 16 17 18 19



W6DM5FR5

MICRO 6 SYSTEMS

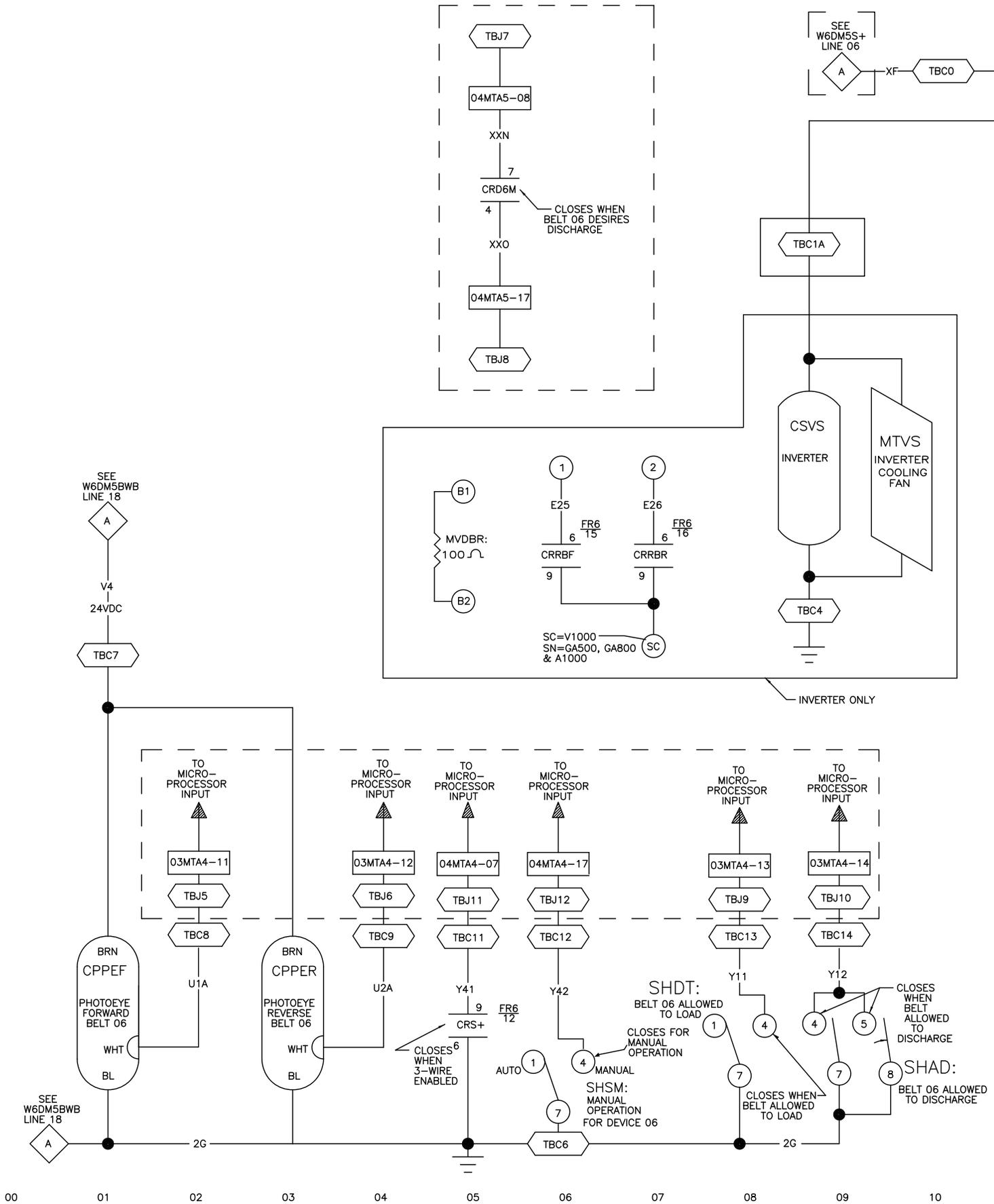
SCHEMATIC: CONTROLS FOR FORWARD & REVERSE FOR BELT 5

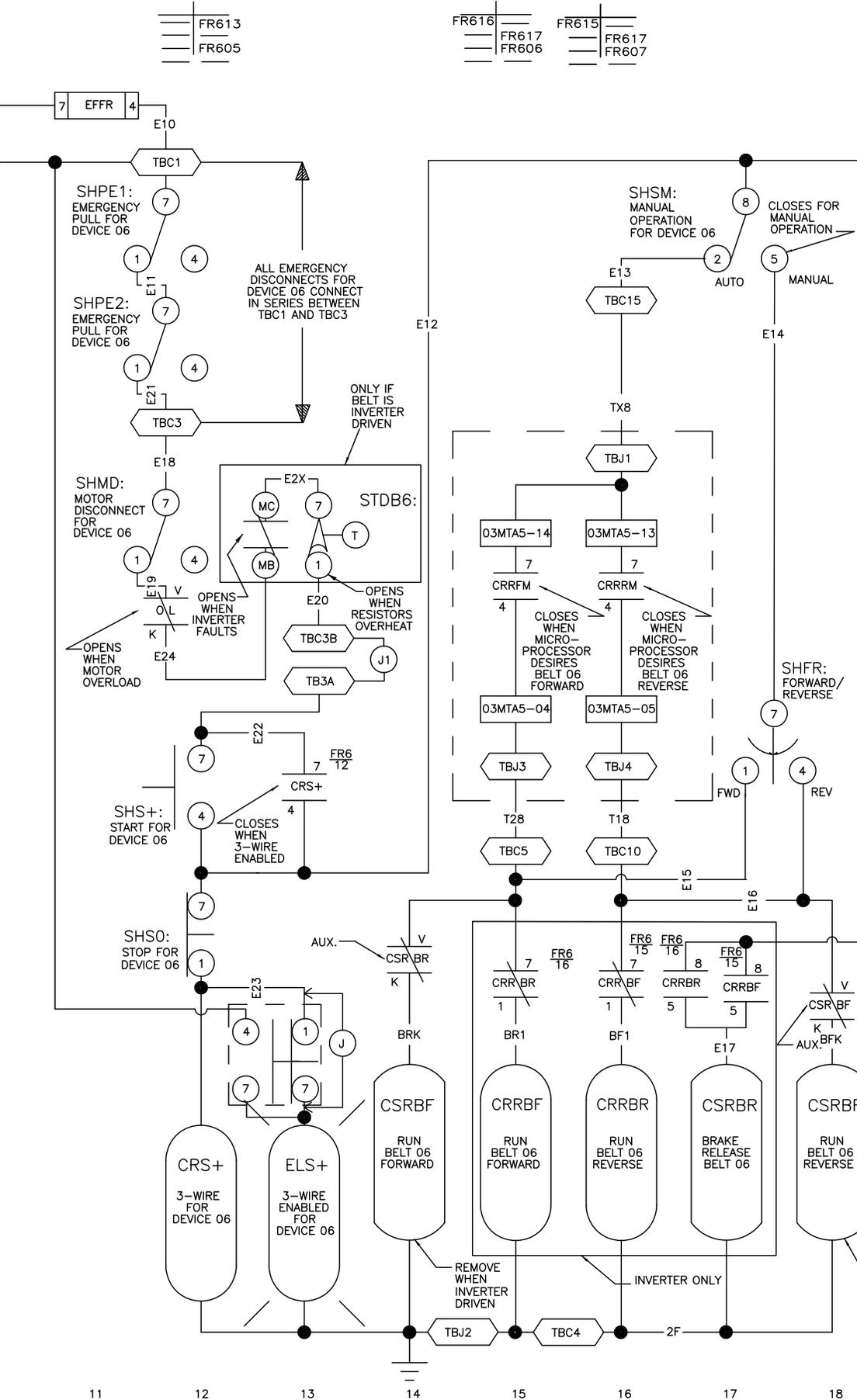
110V1P50HZ/120V60HZ
PELLERIN MILNOR CORPORATION

NOTES:

1. TB FOLLOWED BY LETTER THEN DEVICE NUMBER IS LOCATED IN THE MULTITRAC CONTROL BOX OR THE DEVICE MASTER CONTROL BOX.
2. TBC IS LOCATED IN THE BELT REVERSING CONTROL BOX.
3. DOTTED LINES INDICATE THAT CONTROLS ARE LOCATED IN THE MULTITRAC CONTROL BOX.
4. FORWARD INDICATES THE FLOW OF GOODS
5. 01MTA5 IS LOCATED ON BIO-01
6. 03MTA4 AND 03MTA5 ARE LOCATED ON BIO-02
7. 04MTA4 IS LOCATED ON BIO-04
8. REMOVE (J1) IF SLAVE BELT IS ADDED.
9. REMOVE (J) FOR LAMP TEST OPTION

11 12 13 14 15 16 17 18 19





W6DM5FR6

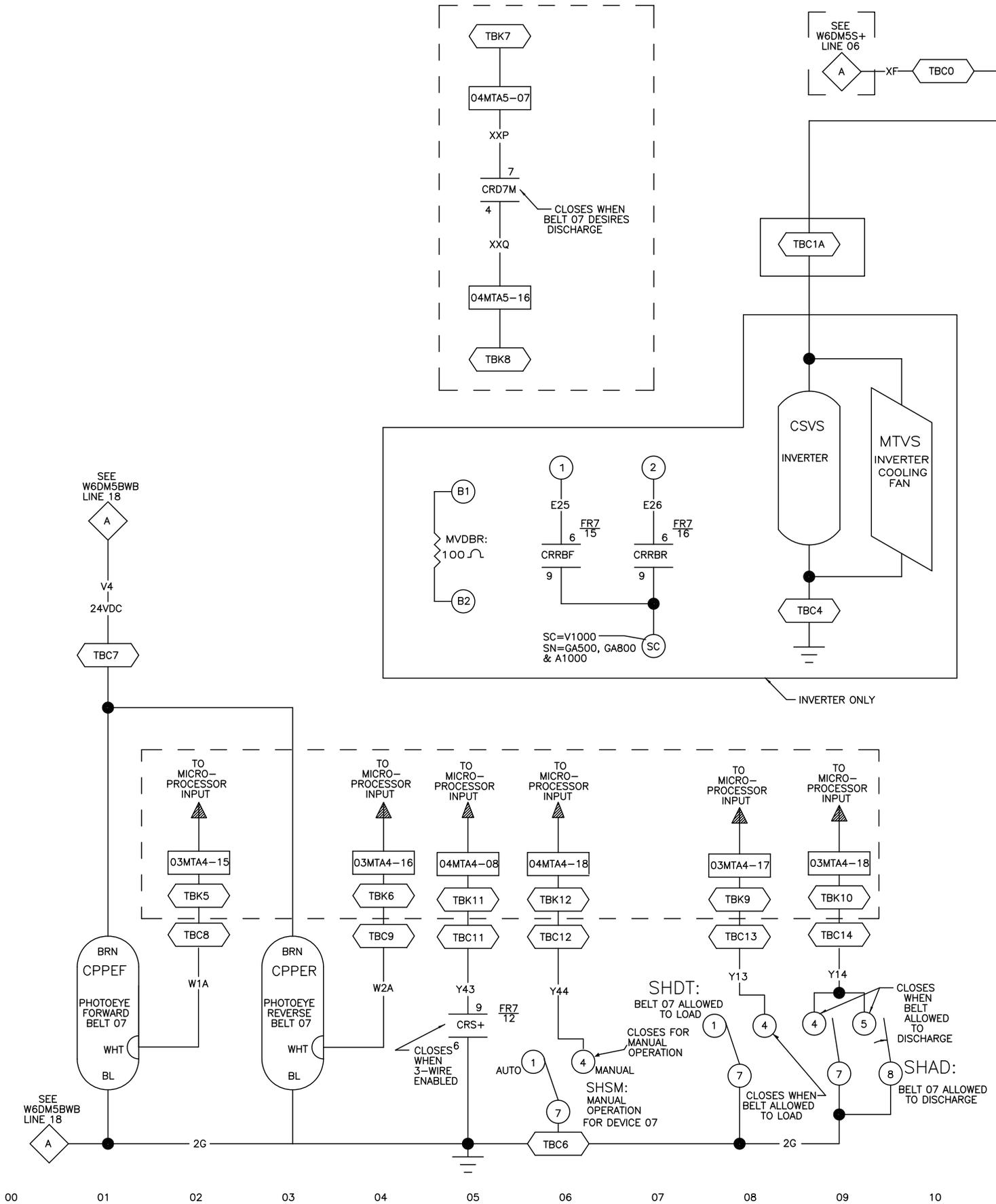
MICRO 6 SYSTEMS SCHEMATIC: CONTROLS FOR FORWARD & REVERSE FOR BELT 6

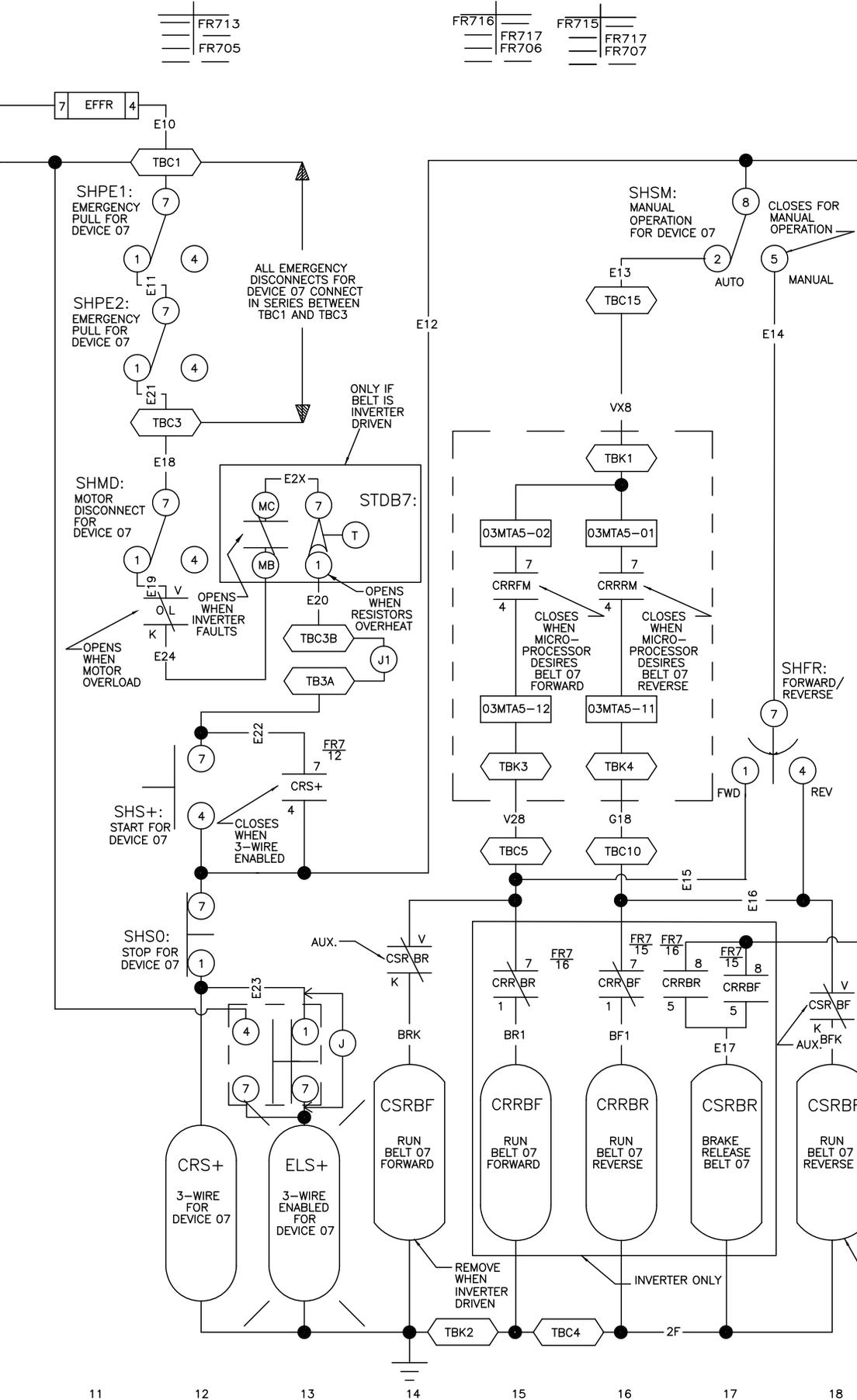
110V1P50HZ/120V60HZ
PELLERIN MILNOR CORPORATION

NOTES:

1. TB FOLLOWED BY LETTER THEN DEVICE NUMBER IS LOCATED IN THE MULTITRAC CONTROL BOX OR THE DEVICE MASTER CONTROL BOX.
2. TBC IS LOCATED IN THE BELT REVERSING CONTROL BOX.
3. DOTTED LINES INDICATED THAT CONTROLS ARE LOCATED IN THE MULTITRAC CONTROL BOX.
4. FORWARD INDICATES THE FLOW OF GOODS
5. 01MTA5 IS LOCATED ON BIO-01
6. 03MTA4 AND 03MTA5 ARE LOCATED ON BIO-02
7. 04MTA4 IS LOCATED ON BIO-04
8. REMOVE (J1) IF SLAVE BELT IS ADDED.
9. REMOVE (J) FOR LAMP TEST OPTION

11 12 13 14 15 16 17 18 19



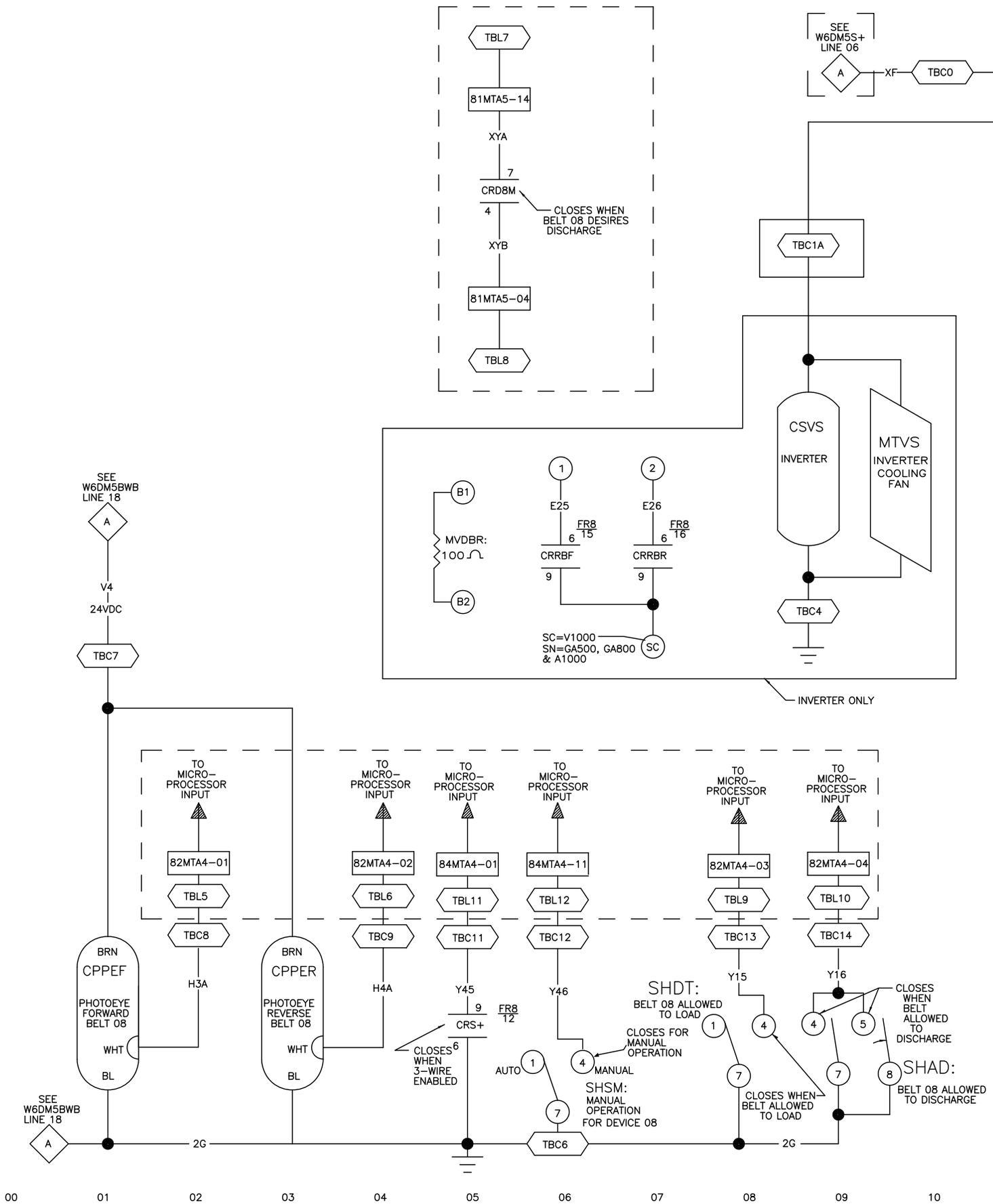


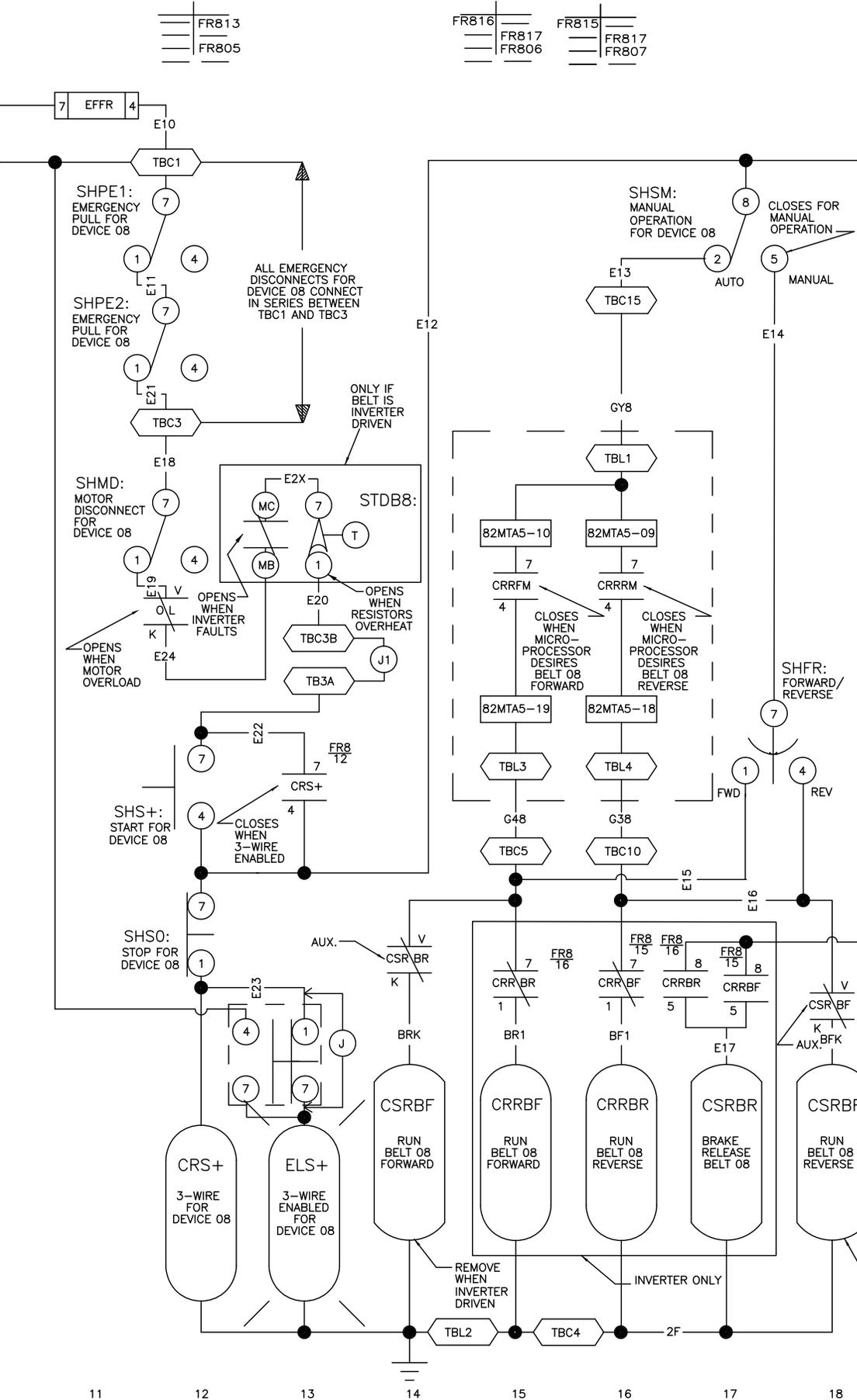
W6DM5FR7
 MICRO 6 SYSTEMS
 SCHEMATIC: CONTROLS FOR
 FORWARD & REVERSE
 FOR BELT 7
 110V1P50HZ/120V60HZ
 PELLERIN MILNOR CORPORATION

NOTES:

1. TB FOLLOWED BY LETTER THEN DEVICE NUMBER IS LOCATED IN THE MULTITRAC CONTROL BOX OR THE DEVICE MASTER CONTROL BOX.
2. TBC IS LOCATED IN THE BELT REVERSING CONTROL BOX.
3. DOTTED LINES INDICATE THAT CONTROLS ARE LOCATED IN THE MULTITRAC CONTROL BOX.
4. FORWARD INDICATES THE FLOW OF GOODS
5. 01MTA5 IS LOCATED ON BIO-01
6. 03MTA4 AND 03MTA5 ARE LOCATED ON BIO-02
7. 04MTA4 IS LOCATED ON BIO-04
8. REMOVE (J1) IF SLAVE BELT IS ADDED.
9. REMOVE (J) FOR LAMP TEST OPTION

11 12 13 14 15 16 17 18 19



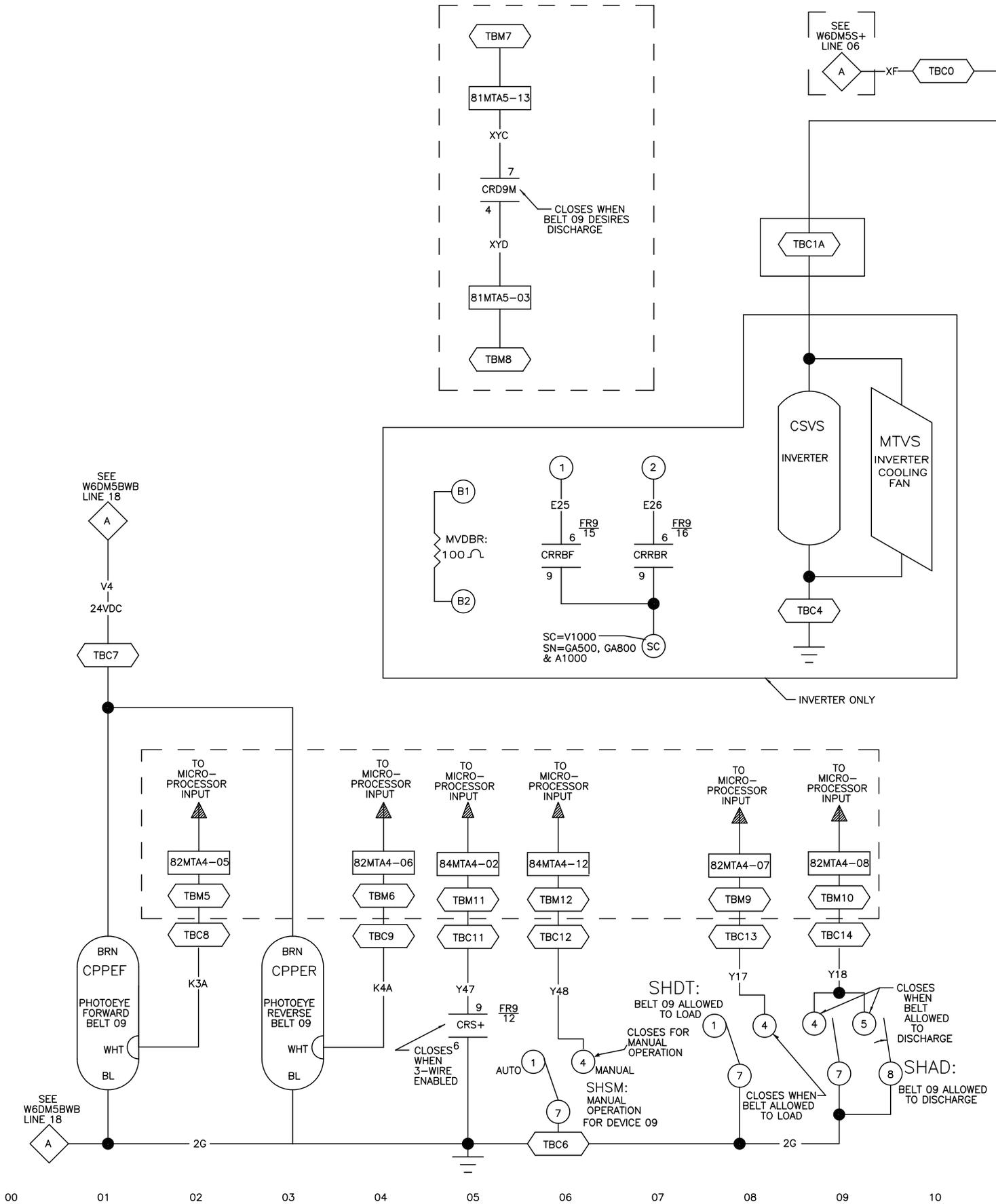


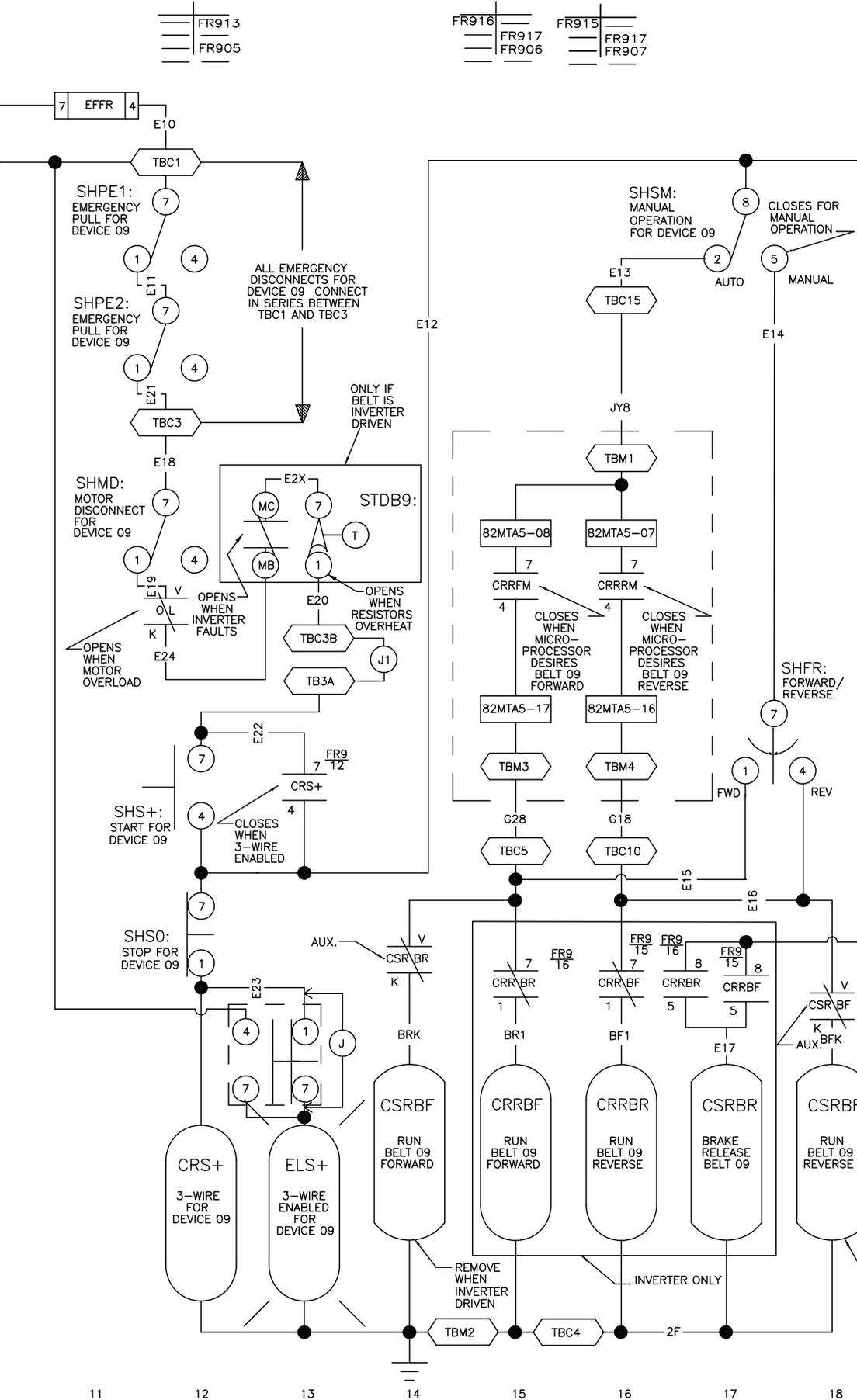
W6DM5FR8
MICRO 6 SYSTEMS
SCHEMATIC: CONTROLS FOR
FORWARD & REVERSE
FOR BELT 8
110V1P50HZ/120V60HZ
PELLERIN MILNOR CORPORATION

NOTES:

1. TB FOLLOWED BY LETTER THEN DEVICE NUMBER IS LOCATED IN THE MULTITRAC CONTROL BOX OR THE DEVICE MASTER CONTROL BOX.
2. TBC IS LOCATED IN THE BELT REVERSING CONTROL BOX.
3. DOTTED LINES INDICATE THAT CONTROLS ARE LOCATED IN THE MULTITRAC CONTROL BOX.
4. FORWARD INDICATES THE FLOW OF GOODS
5. 81MTA5 IS LOCATED ON BIO-01
6. 82MTA4 AND 82MTA5 ARE LOCATED ON BIO-02
7. 84MTA4 IS LOCATED ON BIO-04
8. REMOVE (J1) IF SLAVE BELT IS ADDED.
9. REMOVE (J) FOR LAMP TEST OPTION

11 12 13 14 15 16 17 18 19



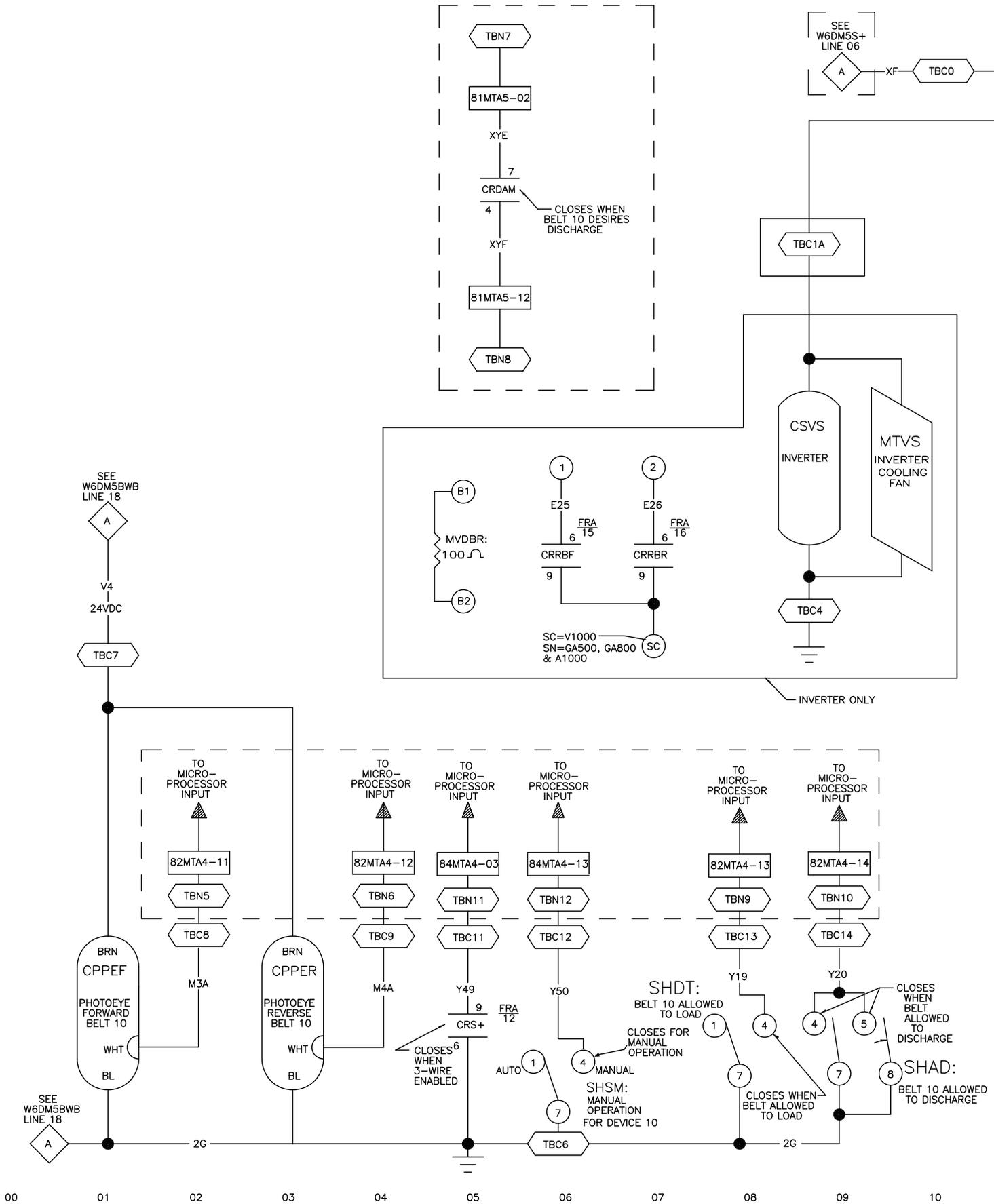


W6DM5FR9
MICRO 6 SYSTEMS
SCHEMATIC: CONTROLS FOR
FORWARD & REVERSE
FOR BELT 9
110V1P50HZ/120V60HZ
PELLERIN MILNOR CORPORATION

NOTES:

1. TB FOLLOWED BY LETTER THEN DEVICE NUMBER IS LOCATED IN THE MULTITRAC CONTROL BOX OR THE DEVICE MASTER CONTROL BOX.
2. TBC IS LOCATED IN THE BELT REVERSING CONTROL BOX.
3. DOTTED LINES INDICATE THAT CONTROLS ARE LOCATED IN THE MULTITRAC CONTROL BOX.
4. FORWARD INDICATES THE FLOW OF GOODS
5. 81MTA5 IS LOCATED ON BIO-01
6. 82MTA4 AND 82MTA5 ARE LOCATED ON BIO-02
7. 84MTA4 IS LOCATED ON BIO-04
8. REMOVE (J1) IF SLAVE BELT IS ADDED.
9. REMOVE (J) FOR LAMP TEST OPTION

11 12 13 14 15 16 17 18 19



SEE W6DM5BWB LINE 18

V4
24VDC
TBC7

SEE W6DM5BWB LINE 18

BRN CPPEF
PHOTOEYE FORWARD BELT 10
WHT
BL

BRN CPPER
PHOTOEYE REVERSE BELT 10
WHT
BL

9 FRA 12
CRS+
6
CLOSING WHEN 3-WIRE ENABLED

SHDT:
BELT 10 ALLOWED TO LOAD

1 4
CLOSING FOR MANUAL OPERATION

7
SHSM:
MANUAL OPERATION FOR DEVICE 10

Y19
4 7
CLOSING WHEN BELT ALLOWED TO LOAD

4 5 8
CLOSING WHEN BELT ALLOWED TO DISCHARGE

SHAD:
BELT 10 ALLOWED TO DISCHARGE

SEE W6DM5S+ LINE 06
A
XF
TBCO

TBC1A

CSVS
INVERTER

MTVS
INVERTER
COOLING FAN

TBC4

INVERTER ONLY

TBN7
81MTA5-02
XYE
7
CRDAM
4
XYF
81MTA5-12
TBN8

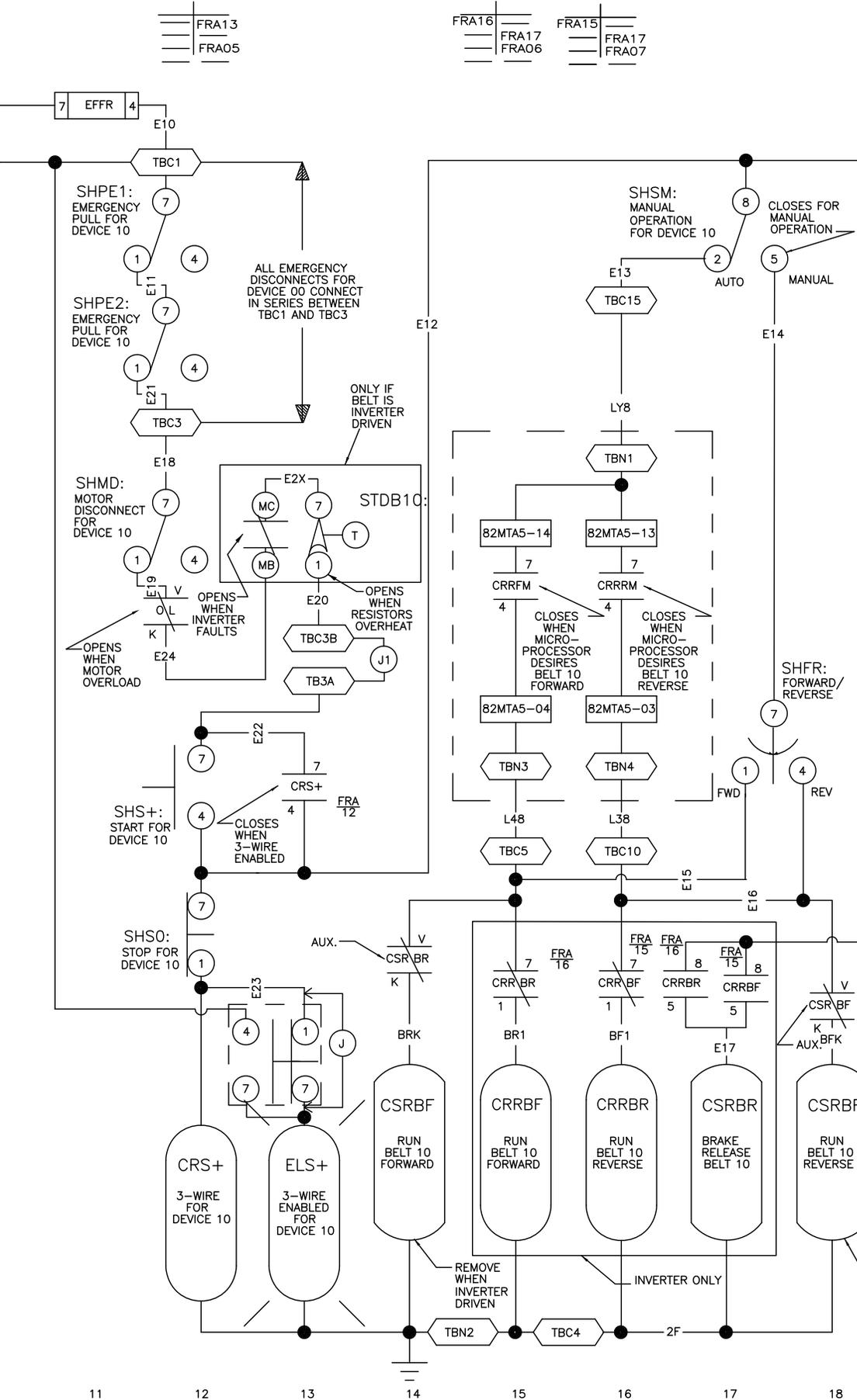
SC-V1000
SN-GA500, GA800 & A1000
SC

B1
MVDBR:
100 Ω
B2

1
E25
6 FRA 15
9
CRRBF

2
E26
6 FRA 16
9
CRRBR

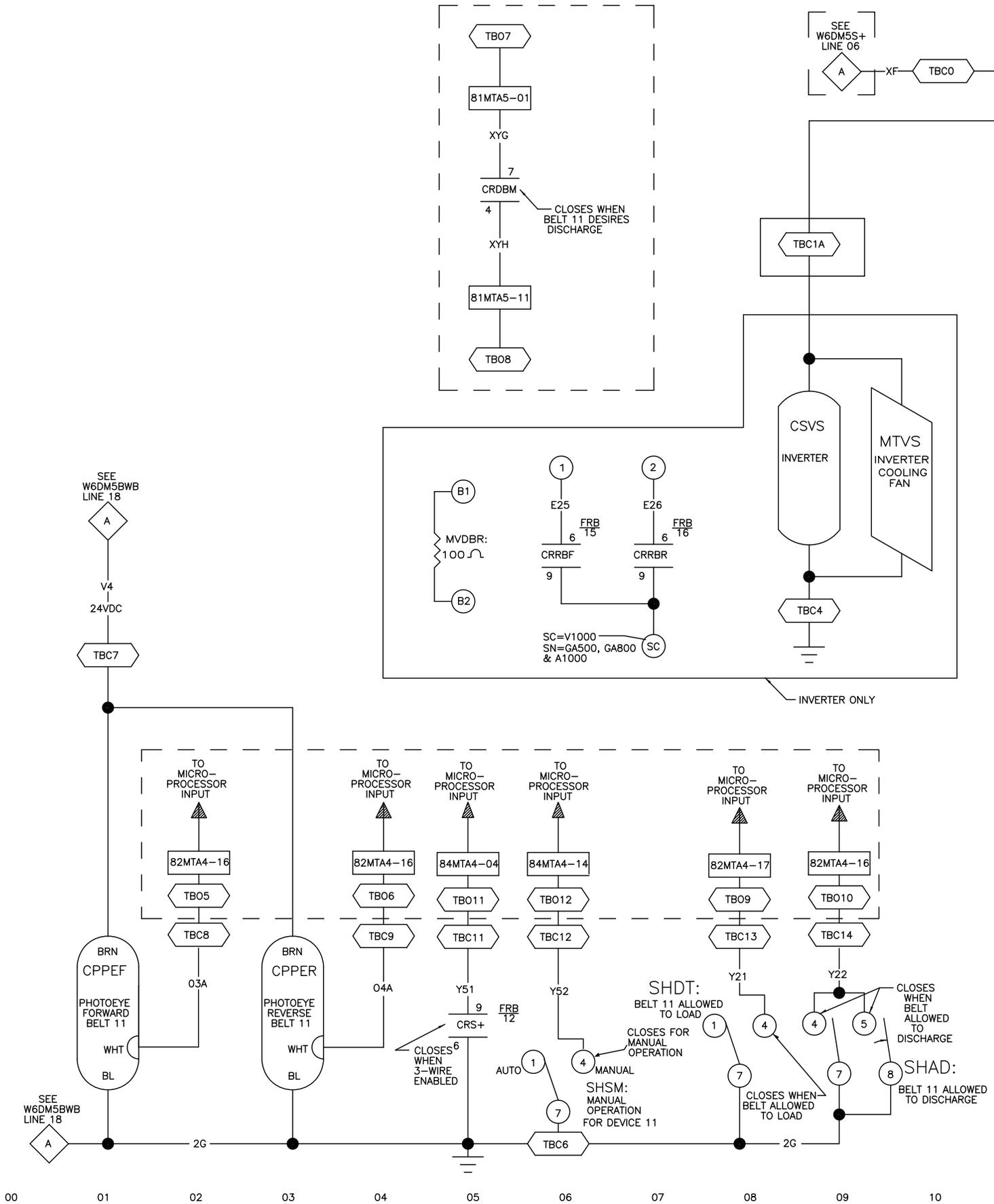
00 01 02 03 04 05 06 07 08 09 10



W6DM5FRA
MICRO 6 SYSTEMS
SCHEMATIC: CONTROLS FOR
FORWARD & REVERSE
FOR BELT 10
110V1P50HZ/120V60HZ
PELLERIN MILNOR CORPORATION

- NOTES:
1. TB FOLLOWED BY LETTER THEN DEVICE NUMBER IS LOCATED IN THE MULTITRAC CONTROL BOX OR THE DEVICE MASTER CONTROL BOX.
 2. TBC IS LOCATED IN THE BELT REVERSING CONTROL BOX.
 3. DOTTED LINES INDICATED THAT CONTROLS ARE LOCATED IN THE MULTITRAC CONTROL BOX.
 4. FORWARD INDICATES THE FLOW OF GOODS
 5. 81MTA5 IS LOCATED ON BIO-01
 6. 82MTA4 AND 82MTA5 ARE LOCATED ON BIO-02
 7. 84MTA4 IS LOCATED ON BIO-04
 8. REMOVE (J1) IF SLAVE BELT IS ADDED.
 9. REMOVE (J) FOR LAMP TEST OPTION

11 12 13 14 15 16 17 18 19



SEE W6DM5BWB LINE 18

V4
24VDC
TBC7

SEE W6DM5BWB LINE 18

BRN
CPPEF
PHOTOEYE FORWARD BELT 11
WHT
BL

BRN
CPPER
PHOTOEYE REVERSE BELT 11
WHT
BL

CRS+
CLOSSES WHEN 3-WIRE ENABLED

SHSDT:
BELT 11 ALLOWED TO LOAD
CLOSSES FOR MANUAL OPERATION
SHSM:
MANUAL OPERATION FOR DEVICE 11

Y21
CLOSSES WHEN BELT ALLOWED TO LOAD

Y22
CLOSSES WHEN BELT ALLOWED TO DISCHARGE

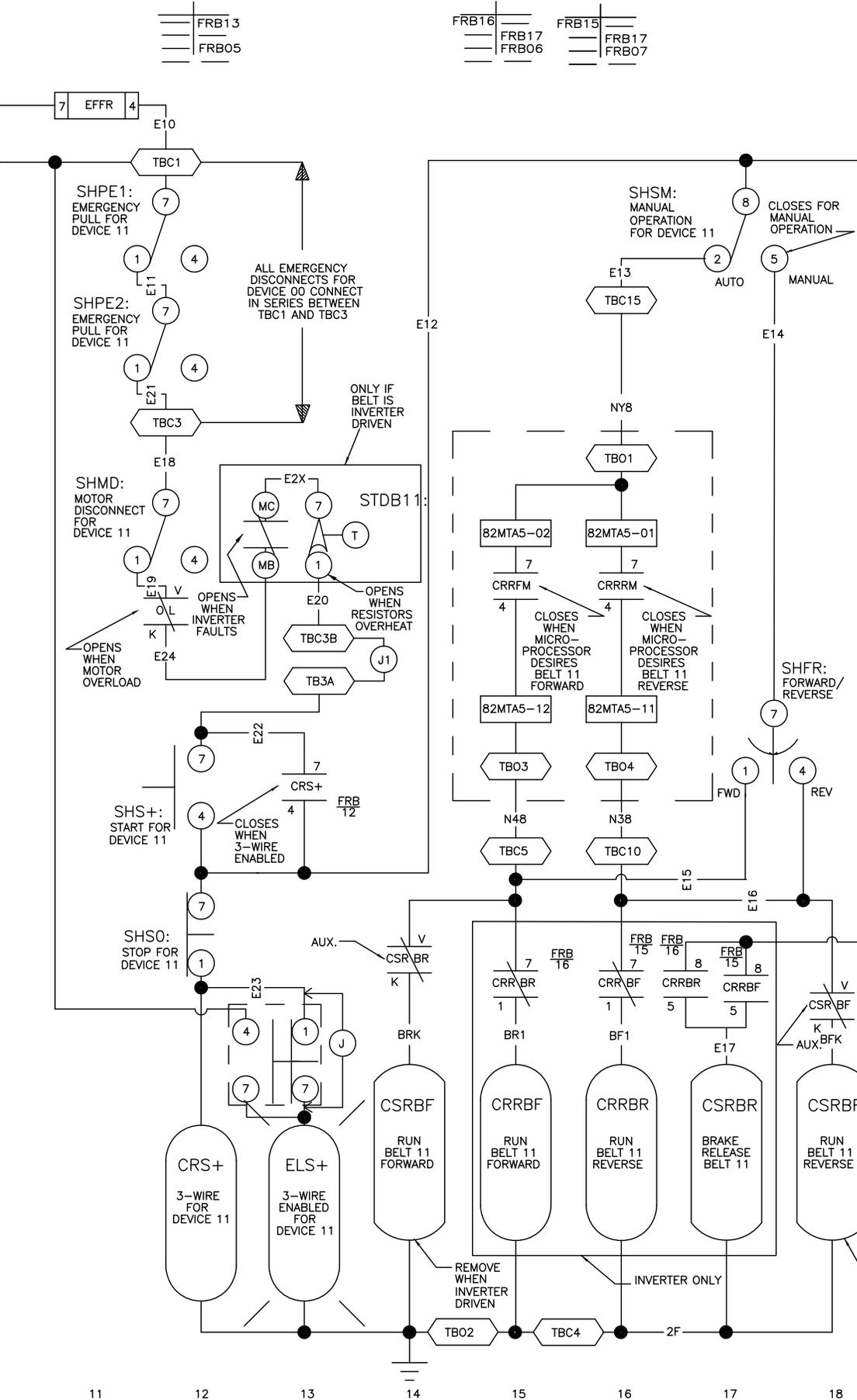
SC=V1000
SN=GA500, GA800 & A1000

INVERTER ONLY

CLOSSES WHEN BELT 11 DESIRES DISCHARGE

SEE W6DM5S+ LINE 06

00 01 02 03 04 05 06 07 08 09 10

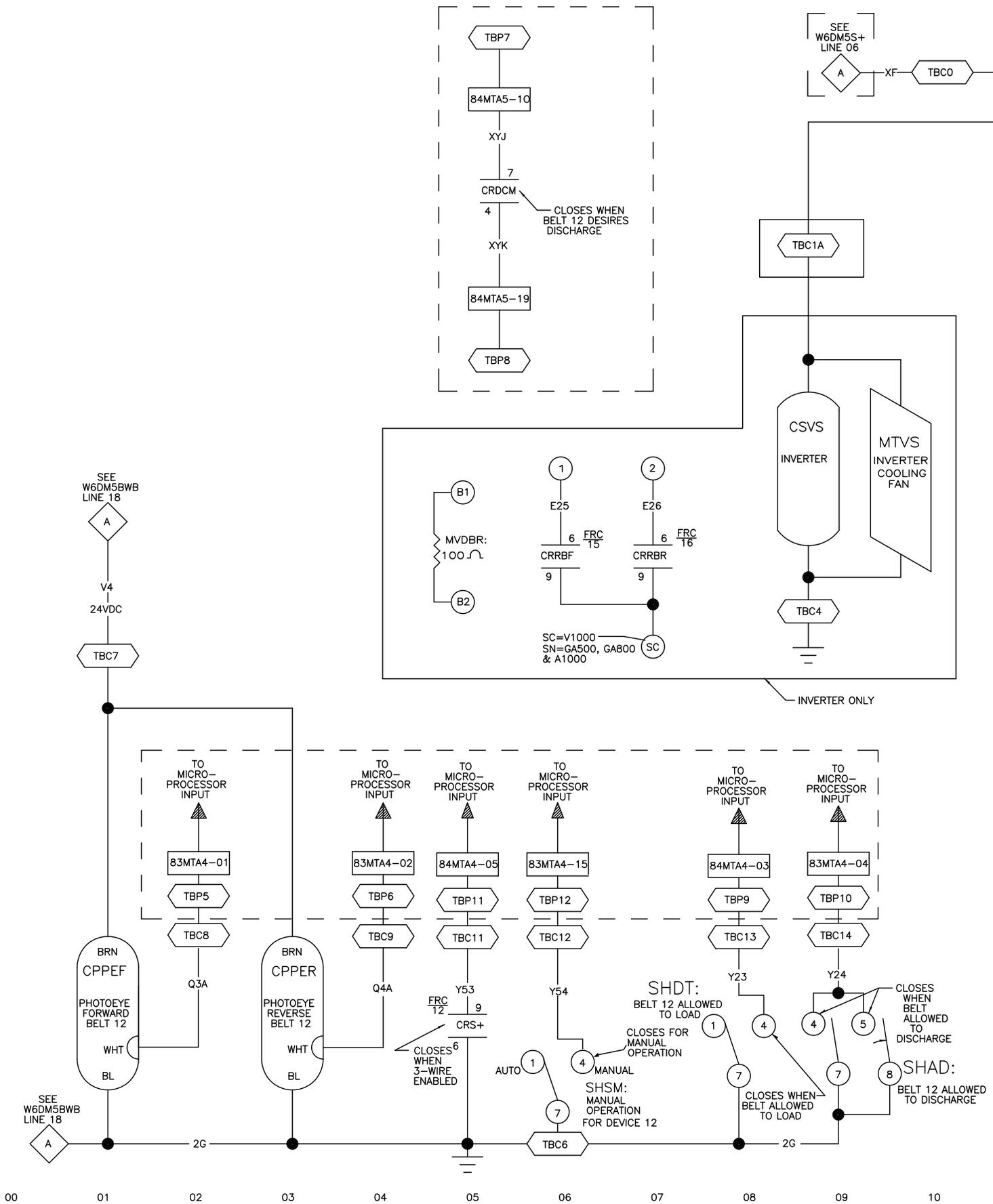


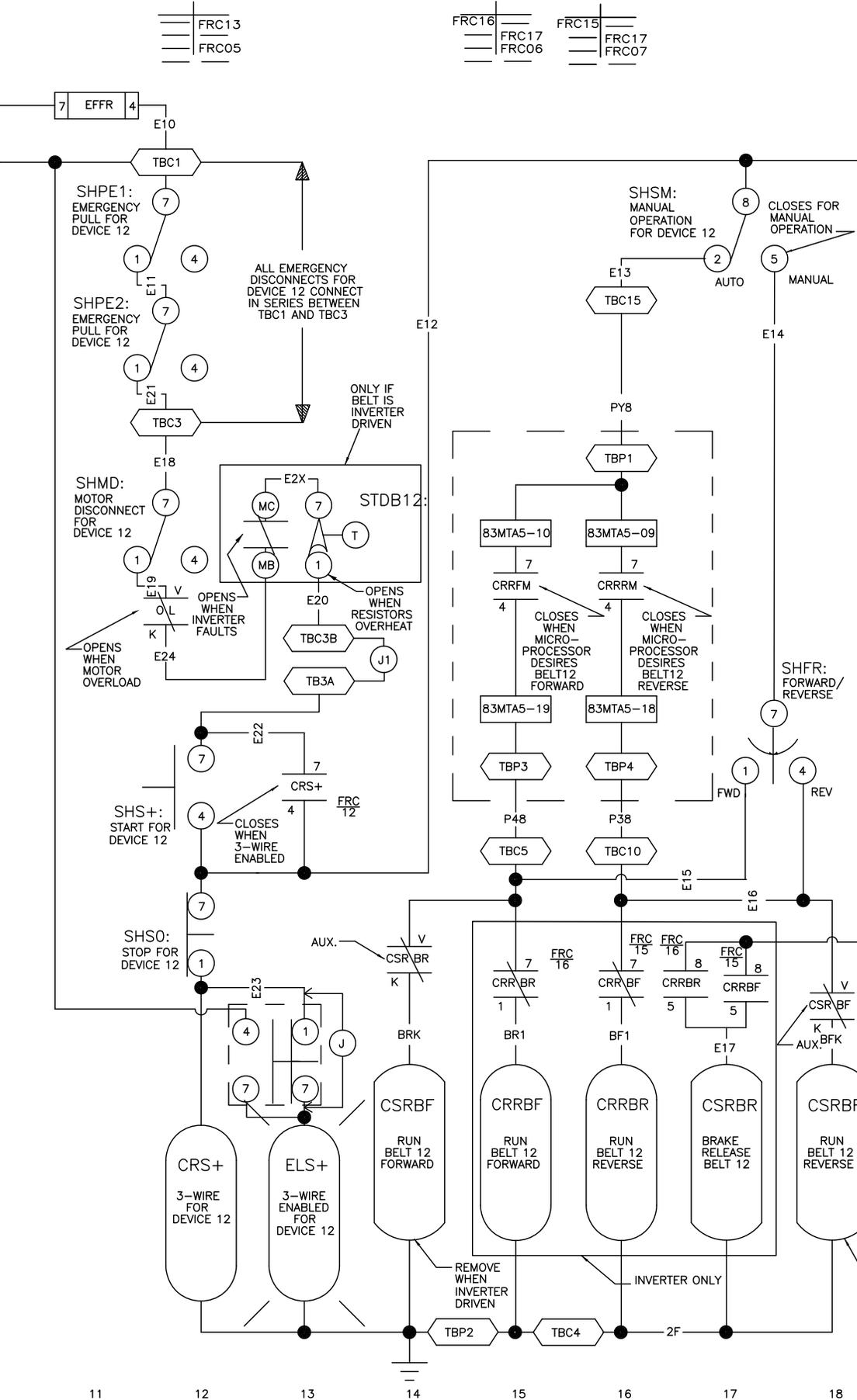
W6DM5FRB
MICRO 6 SYSTEMS
SCHEMATIC: CONTROLS FOR
FORWARD & REVERSE
FOR BELT 11
110V1P50HZ/120V60HZ
PELLERIN MILNOR CORPORATION

NOTES:

1. TB FOLLOWED BY LETTER THEN DEVICE NUMBER IS LOCATED IN THE MULTITRAC CONTROL BOX OR THE DEVICE MASTER CONTROL BOX.
2. TBC IS LOCATED IN THE BELT REVERSING CONTROL BOX.
3. DOTTED LINES INDICATED THAT CONTROLS ARE LOCATED IN THE MULTITRAC CONTROL BOX.
4. FORWARD INDICATES THE FLOW OF GOODS
5. 81MTA5 IS LOCATED ON BIO-01
6. 82MTA4 AND 82MTA5 ARE LOCATED ON BIO-02
7. 84MTA4 IS LOCATED ON BIO-04
8. REMOVE (J1) IF SLAVE BELT IS ADDED.
9. REMOVE (J) FOR LAMP TEST OPTION

11 12 13 14 15 16 17 18 19

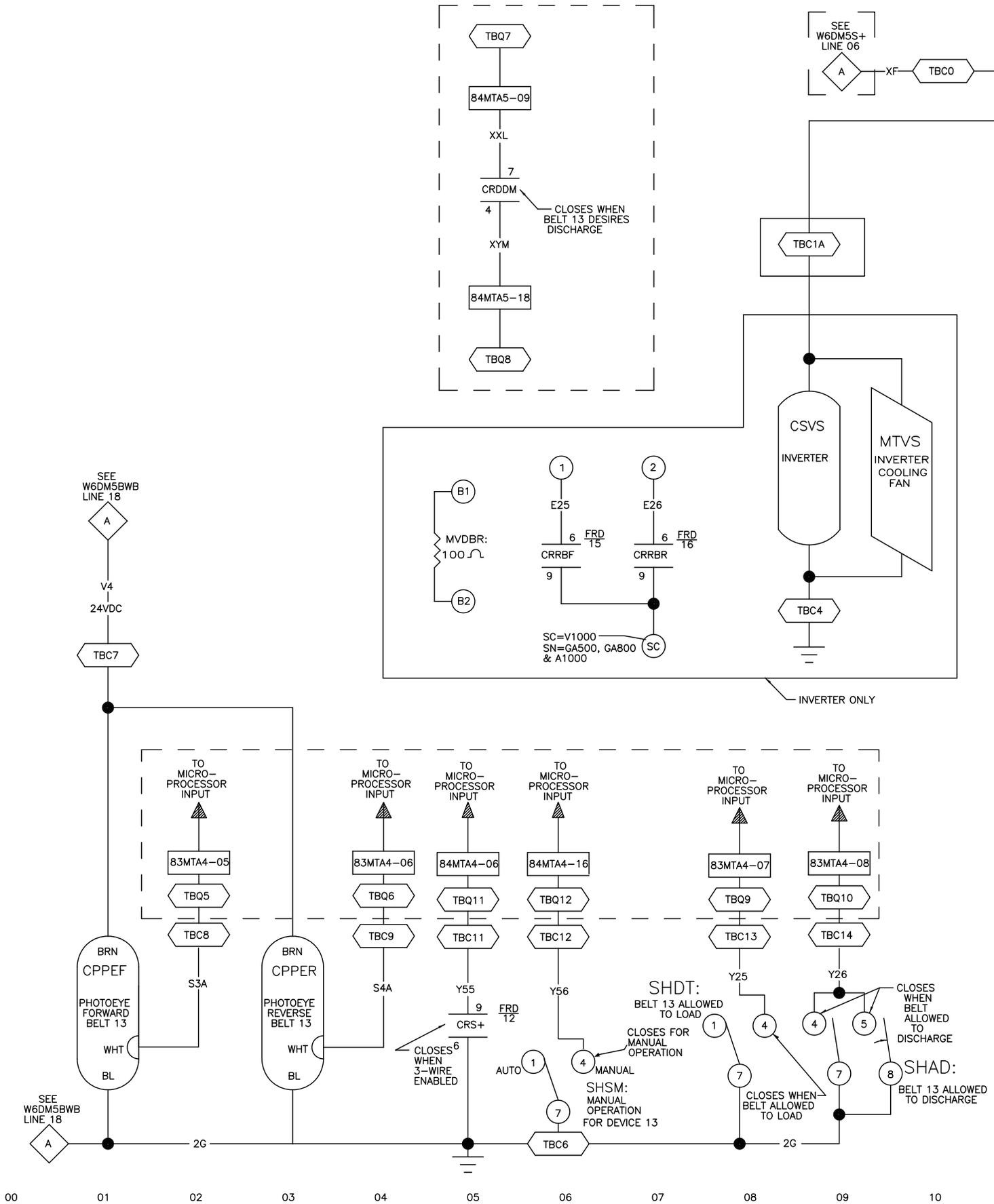


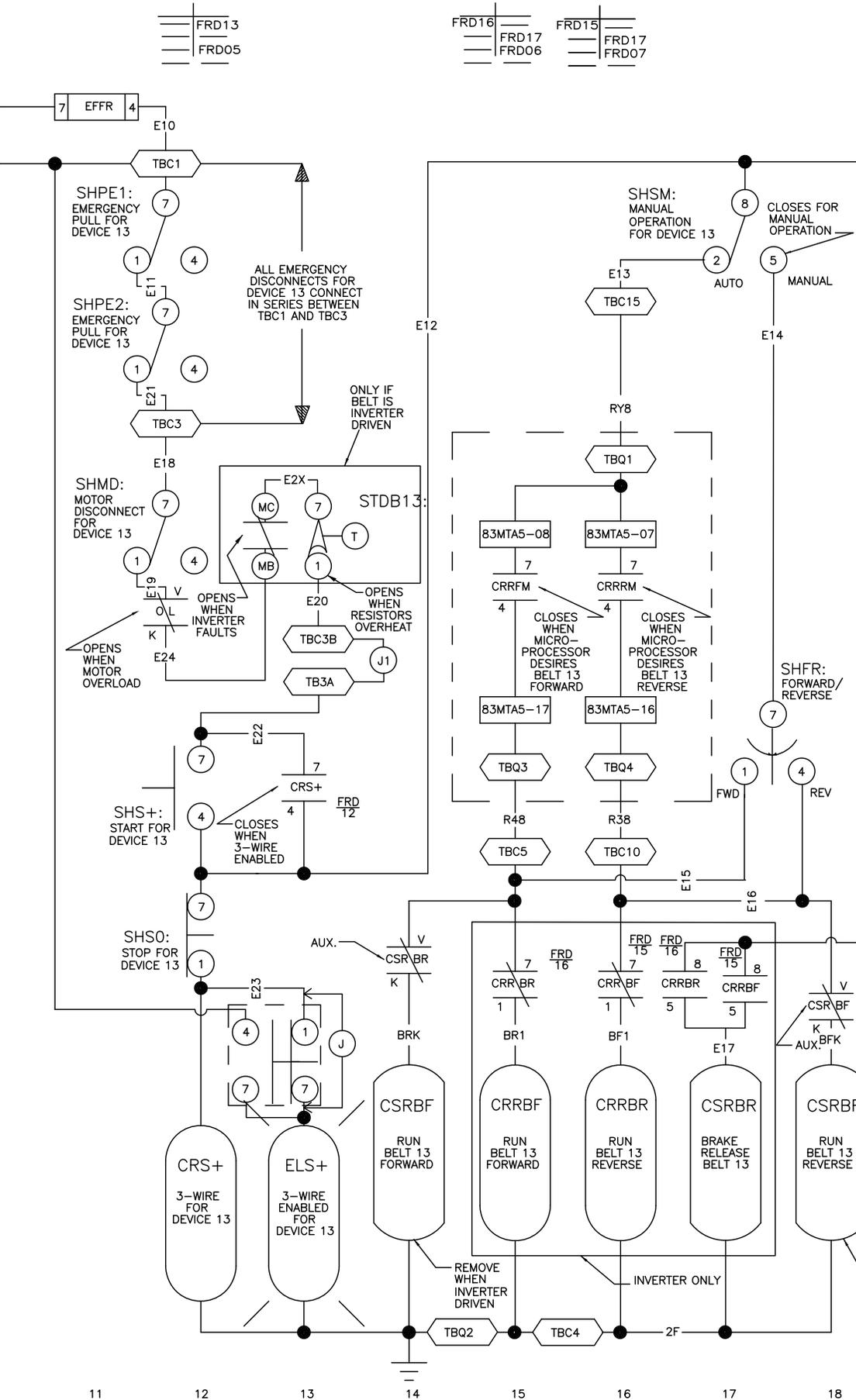


W6DM5FRC
MICRO 6 SYSTEMS
SCHEMATIC: CONTROLS FOR
FORWARD & REVERSE
FOR BELT 12
110V1P50HZ/120V60HZ
PELLERIN MILNOR CORPORATION

- NOTES:
1. TB FOLLOWED BY LETTER THEN DEVICE NUMBER IS LOCATED IN THE MULTITRAC CONTROL BOX OR THE DEVICE MASTER CONTROL BOX.
 2. TBC IS LOCATED IN THE BELT REVERSING CONTROL BOX.
 3. DOTTED LINES INDICATED THAT CONTROLS ARE LOCATED IN THE MULTITRAC CONTROL BOX.
 4. FORWARD INDICATES THE FLOW OF GOODS
 5. 83MTA5 IS LOCATED ON BIO-01
 6. 83MTA4 AND 82MTA5 ARE LOCATED ON BIO-02
 7. 84MTA4 IS LOCATED ON BIO-04
 8. REMOVE (J1) IF SLAVE BELT IS ADDED.
 9. REMOVE (J) FOR LAMP TEST OPTION

11 12 13 14 15 16 17 18 19



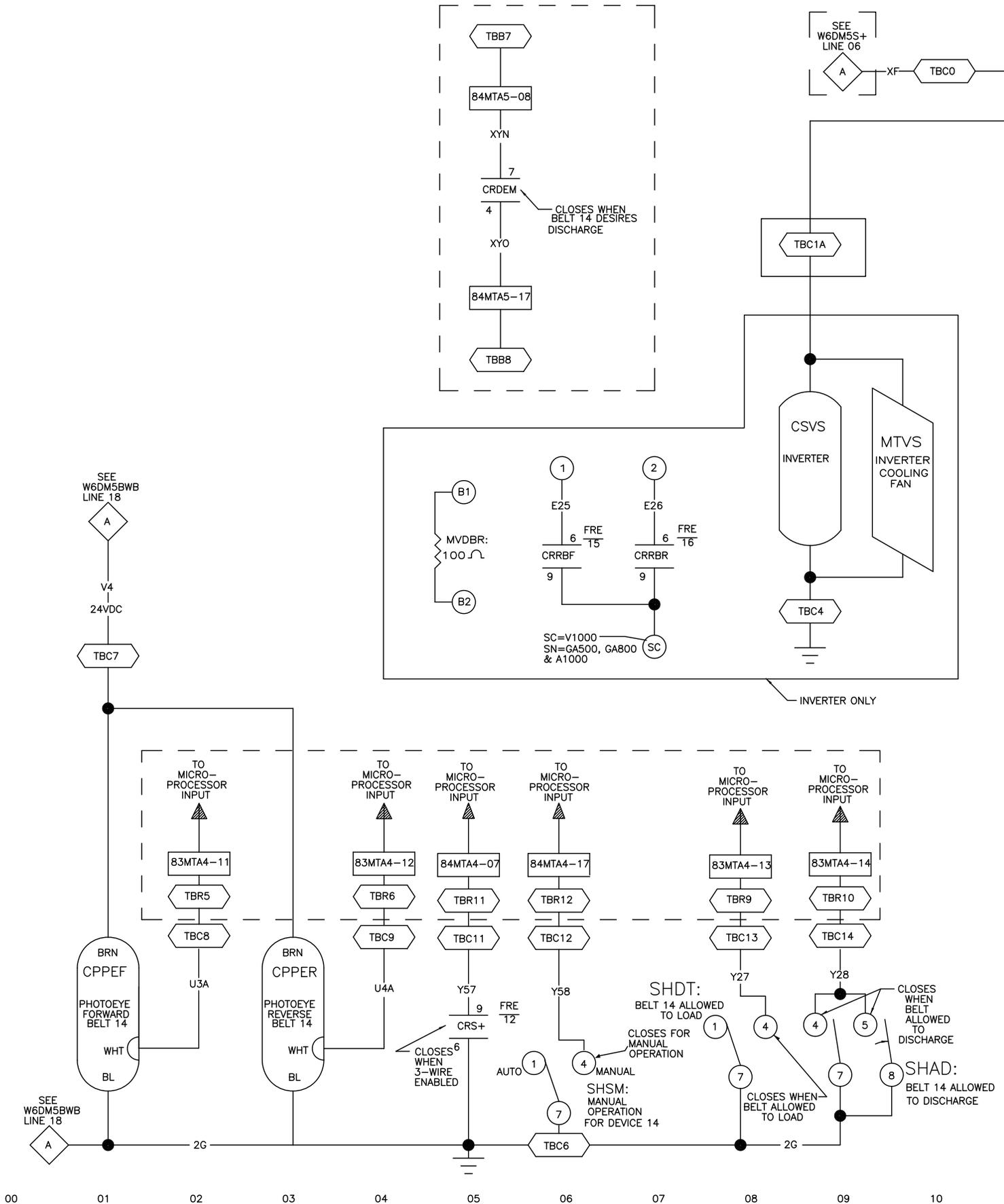


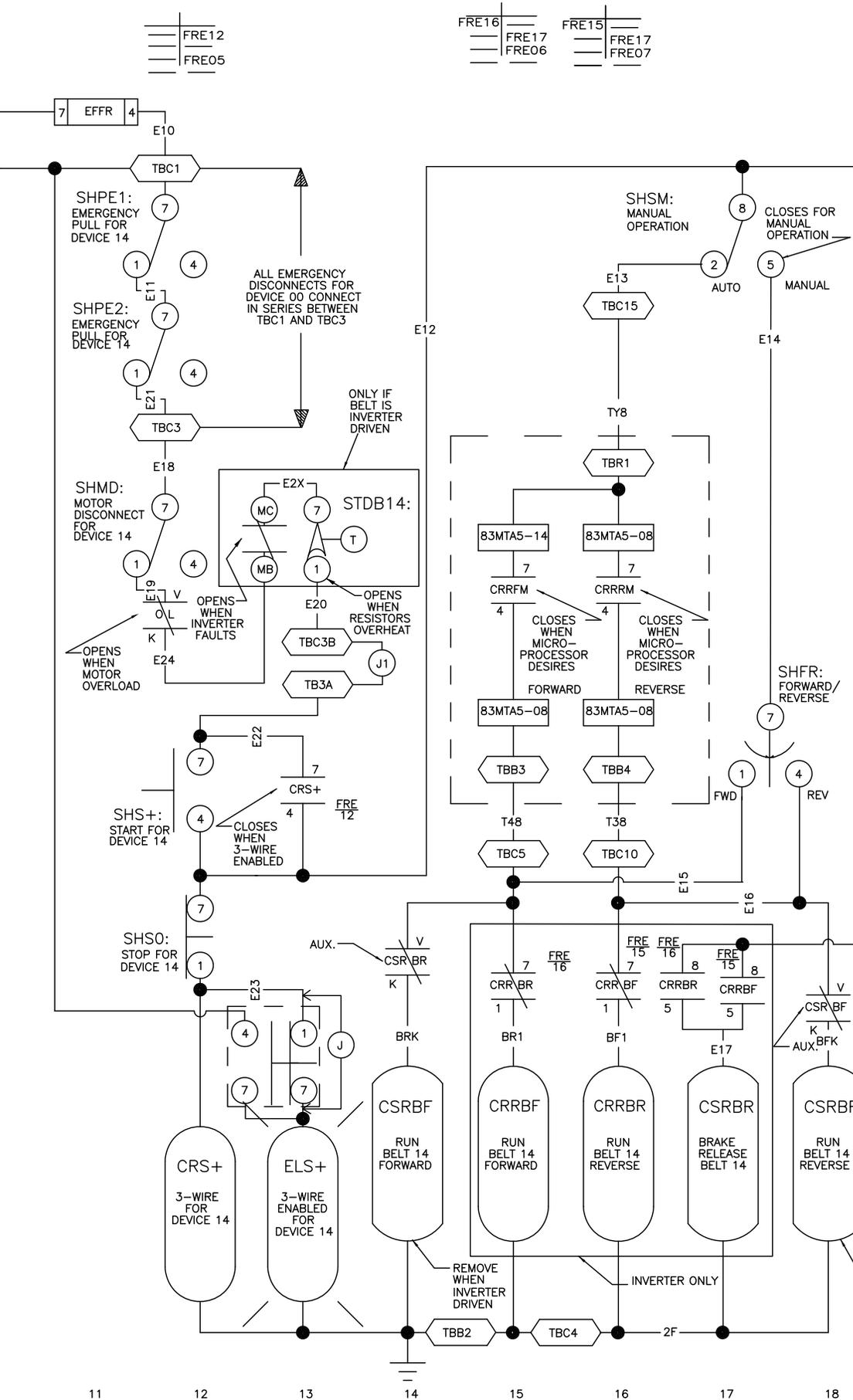
W6DM5FRD
MICRO 6 SYSTEMS
SCHEMATIC: CONTROLS FOR
FORWARD & REVERSE
FOR BELT 13
110V1P50HZ/120V60HZ
PELLERIN MILNOR CORPORATION

NOTES:

1. TB FOLLOWED BY LETTER THEN DEVICE NUMBER IS LOCATED IN THE MULTITRAC CONTROL BOX OR THE DEVICE MASTER CONTROL BOX.
2. TBC IS LOCATED IN THE BELT REVERSING CONTROL BOX.
3. DOTTED LINES INDICATED THAT CONTROLS ARE LOCATED IN THE MULTITRAC CONTROL BOX.
4. FORWARD INDICATES THE FLOW OF GOODS
5. 83MTA5 IS LOCATED ON BIO-01
6. 83MTA4 AND 83MTA5 ARE LOCATED ON BIO-02
7. 84MTA4 IS LOCATED ON BIO-04
8. REMOVE (J1) IF SLAVE BELT IS ADDED.
9. REMOVE (J) FOR LAMP TEST OPTION

11 12 13 14 15 16 17 18 19



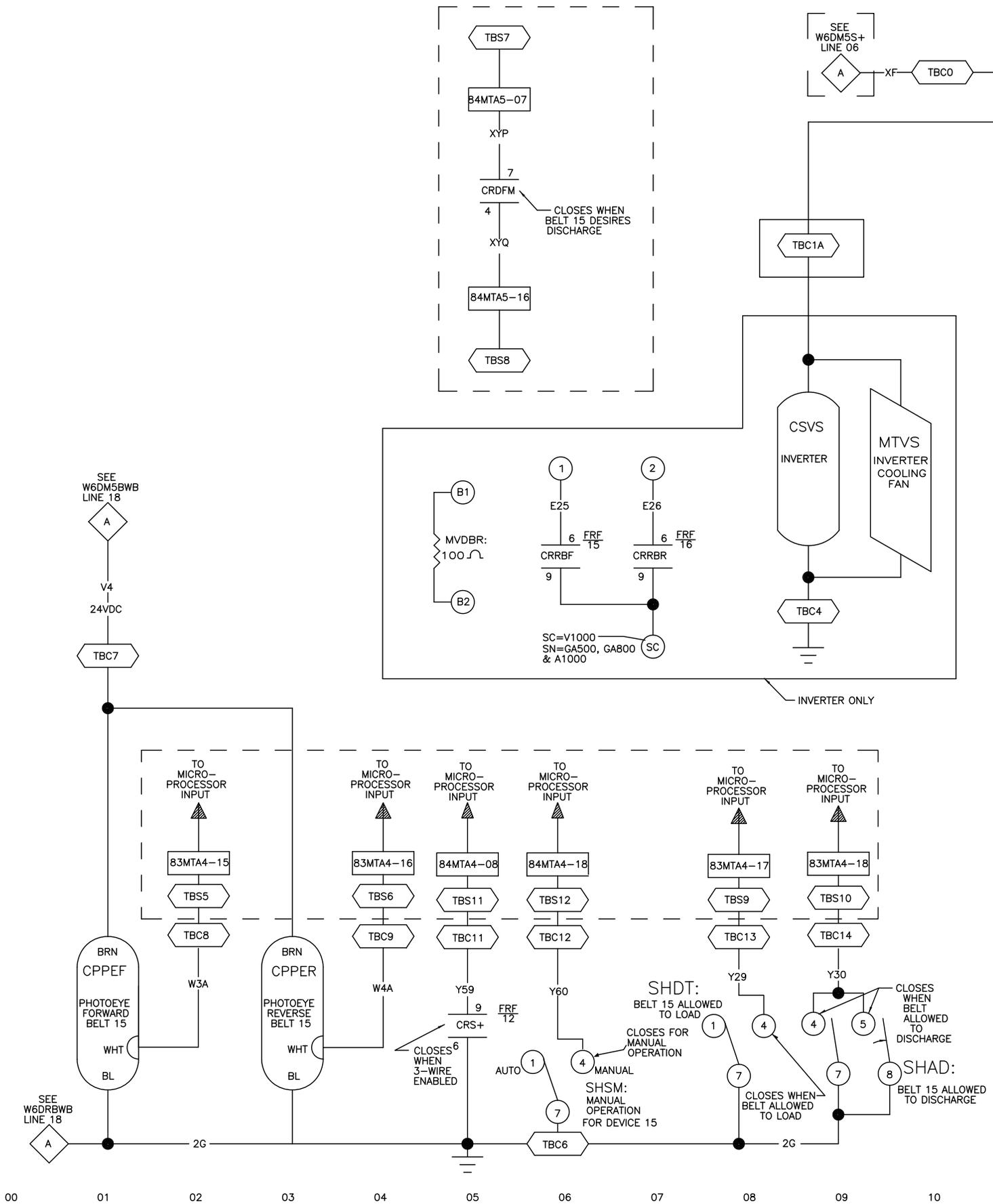


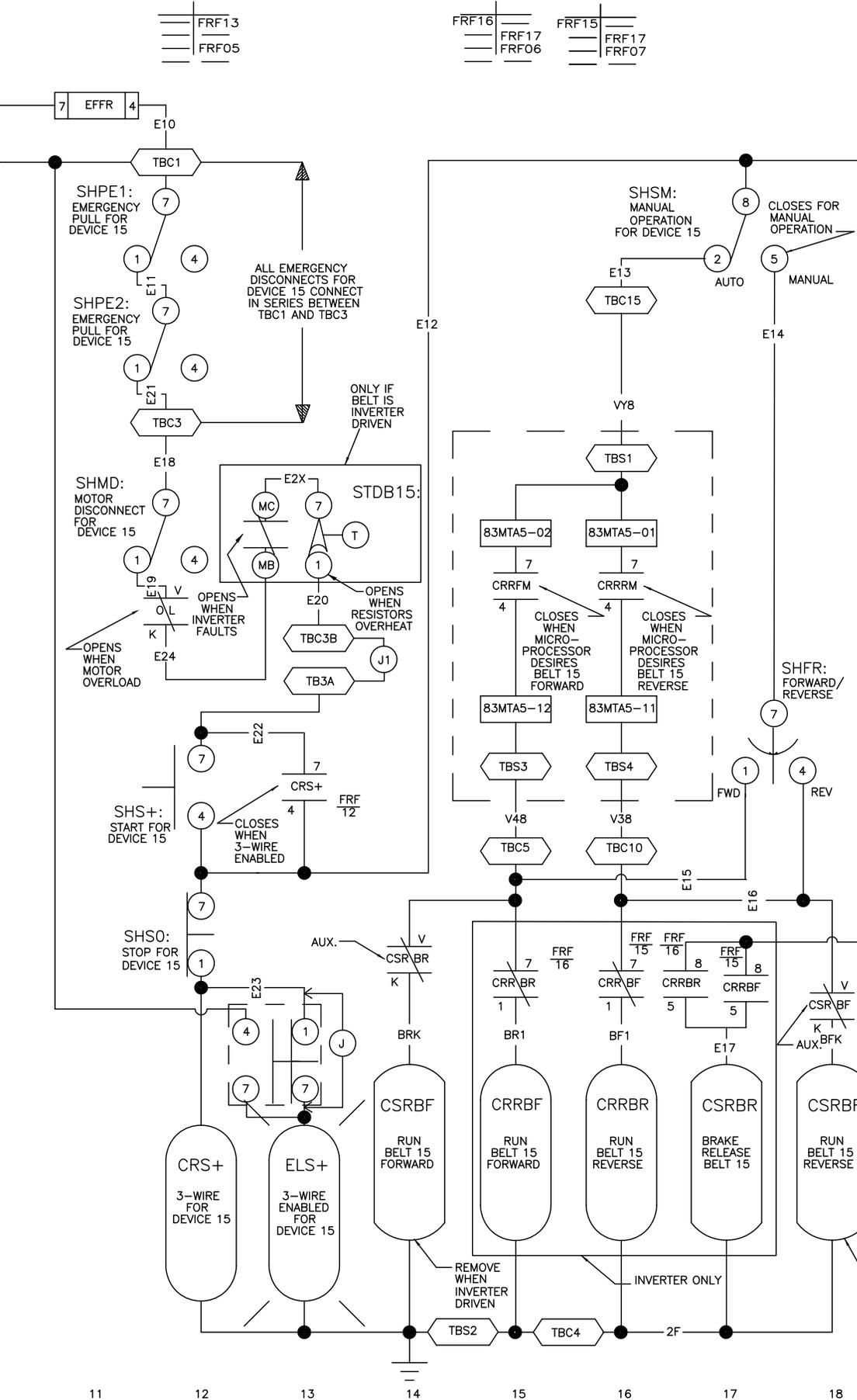
W6DM5FRE
MICRO 6 SYSTEMS
SCHEMATIC: CONTROLS FOR
FORWARD & REVERSE
FOR BELT 14
110V1P50HZ/120V60HZ
PELLERIN MILNOR CORPORATION

NOTES:

1. TB FOLLOWED BY LETTER THEN DEVICE NUMBER IS LOCATED IN THE MULTITRAC CONTROL BOX OR THE DEVICE MASTER CONTROL BOX.
2. TBC IS LOCATED IN THE BELT REVERSING CONTROL BOX.
3. DOTTED LINES INDICATED THAT CONTROLS ARE LOCATED IN THE MULTITRAC CONTROL BOX.
4. FORWARD INDICATES THE FLOW OF GOODS
5. 83MTA5 IS LOCATED ON BIO-01
6. 83MTA4 AND 83MTA5 ARE LOCATED ON BIO-02
7. 84MTA4 IS LOCATED ON BIO-04
8. REMOVE (J1) IF SLAVE BELT IS ADDED.
9. REMOVE (J) FOR LAMP TEST OPTION

11 12 13 14 15 16 17 18 19



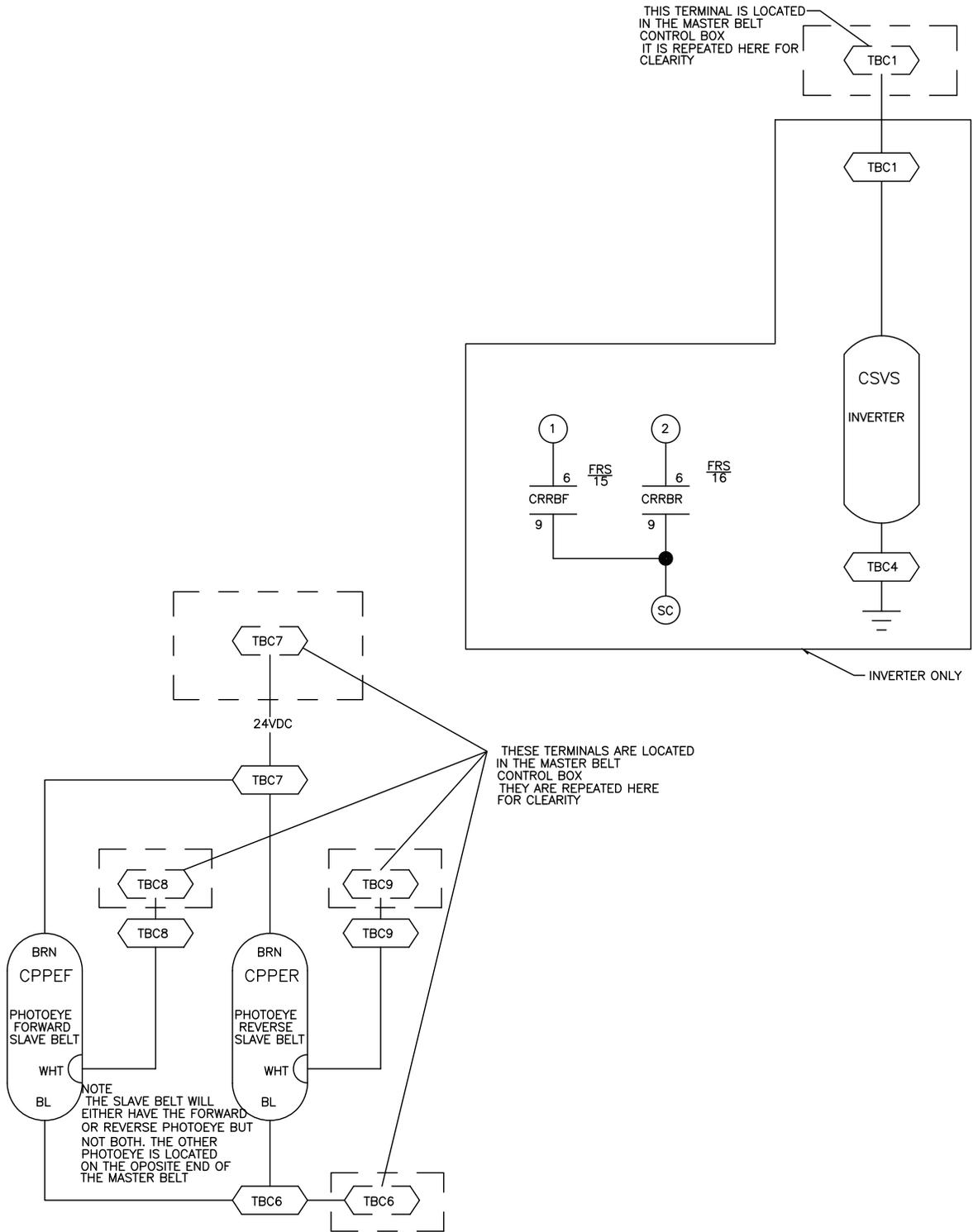


W6DM5FRF
MICRO 6 SYSTEMS
SCHEMATIC: CONTROLS FOR
FORWARD & REVERSE
FOR BELT 15
110V1P50HZ/120V60HZ
PELLERIN MILNOR CORPORATION

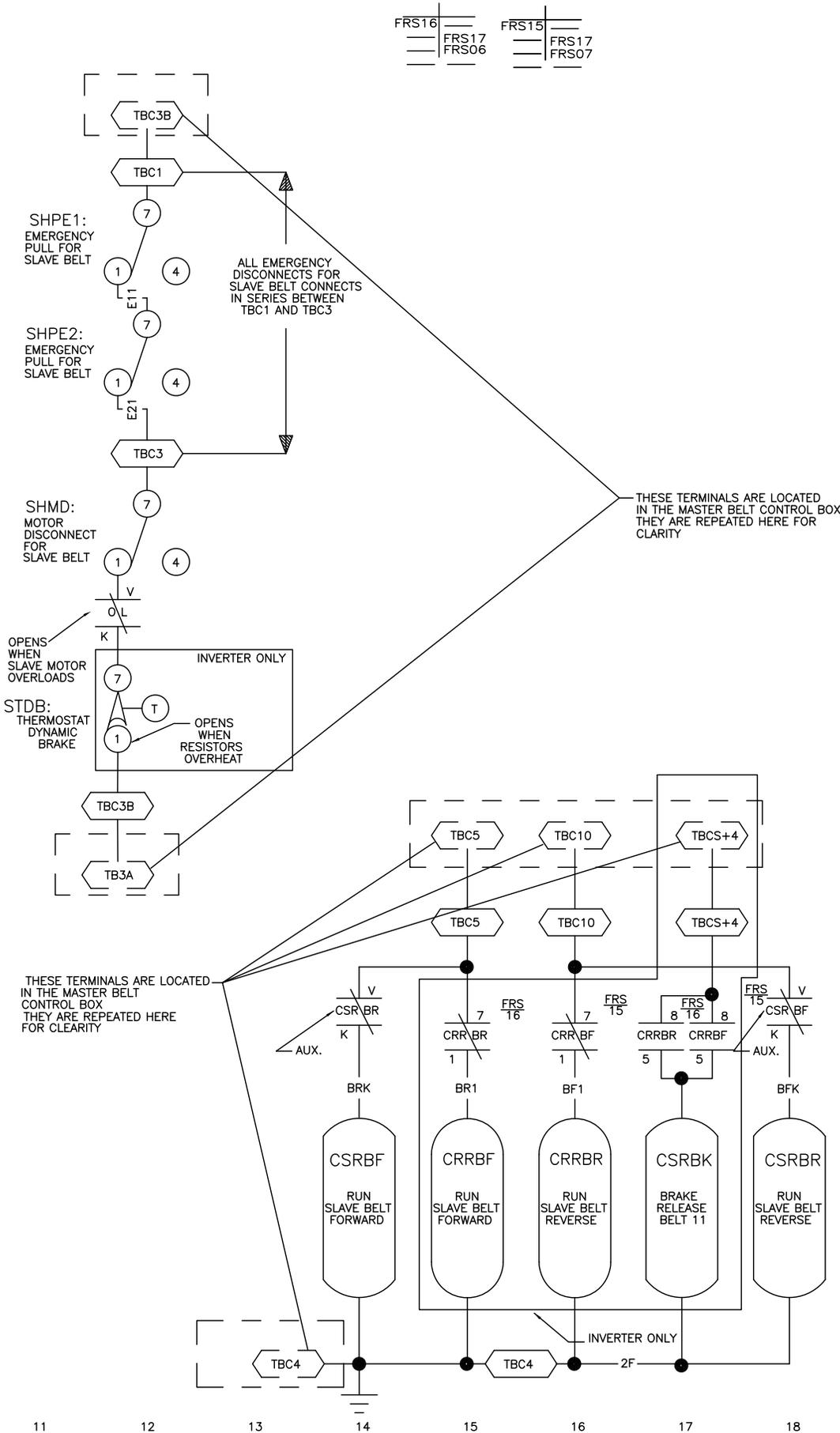
NOTES:

1. TB FOLLOWED BY LETTER THEN DEVICE NUMBER IS LOCATED IN THE MULTITRAC CONTROL BOX OR THE DEVICE MASTER CONTROL BOX.
2. TBC IS LOCATED IN THE BELT REVERSING CONTROL BOX.
3. DOTTED LINES INDICATED THAT CONTROLS ARE LOCATED IN THE MULTITRAC CONTROL BOX.
4. FORWARD INDICATES THE FLOW OF GOODS
5. 83MTA5 IS LOCATED ON BIO-01
6. 83MTA4 AND 83MTA5 ARE LOCATED ON BIO-02
7. 84MT4 IS LOCATED ON BIO-04
8. REMOVE (J1) IF SLAVE BELT IS ADDED.
9. REMOVE (J) FOR LAMP TEST OPTION

11 12 13 14 15 16 17 18 19



00 01 02 03 04 05 06 07 08 09 10

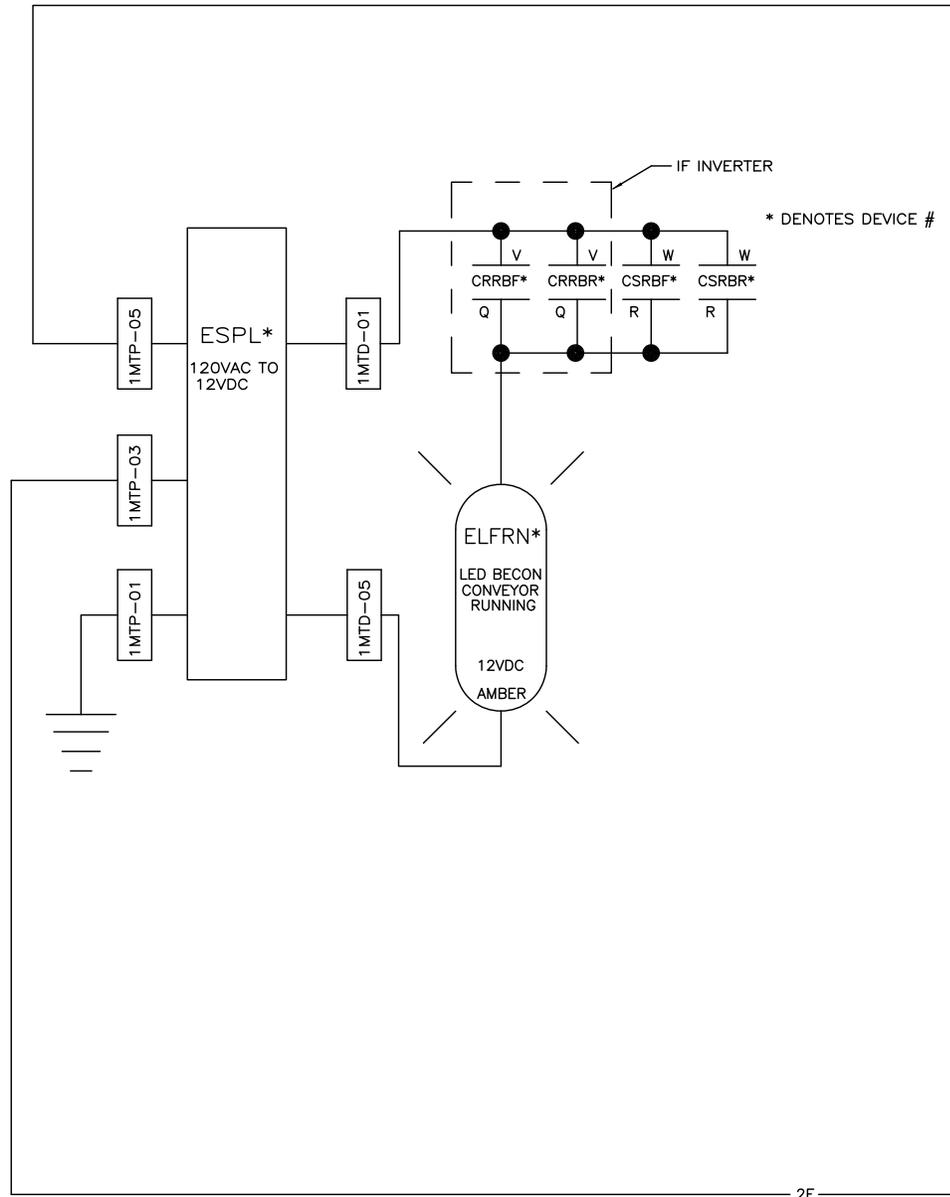


W6DM5FRS
 MICRO 6 SYSTEMS
 SCHEMATIC: CONTROLS FOR
 FORWARD & REVERSE
 FOR TYPICAL SLAVE BELT
 110V1P50HZ/120V60HZ
 PELLERIN MILNOR CORPORATION

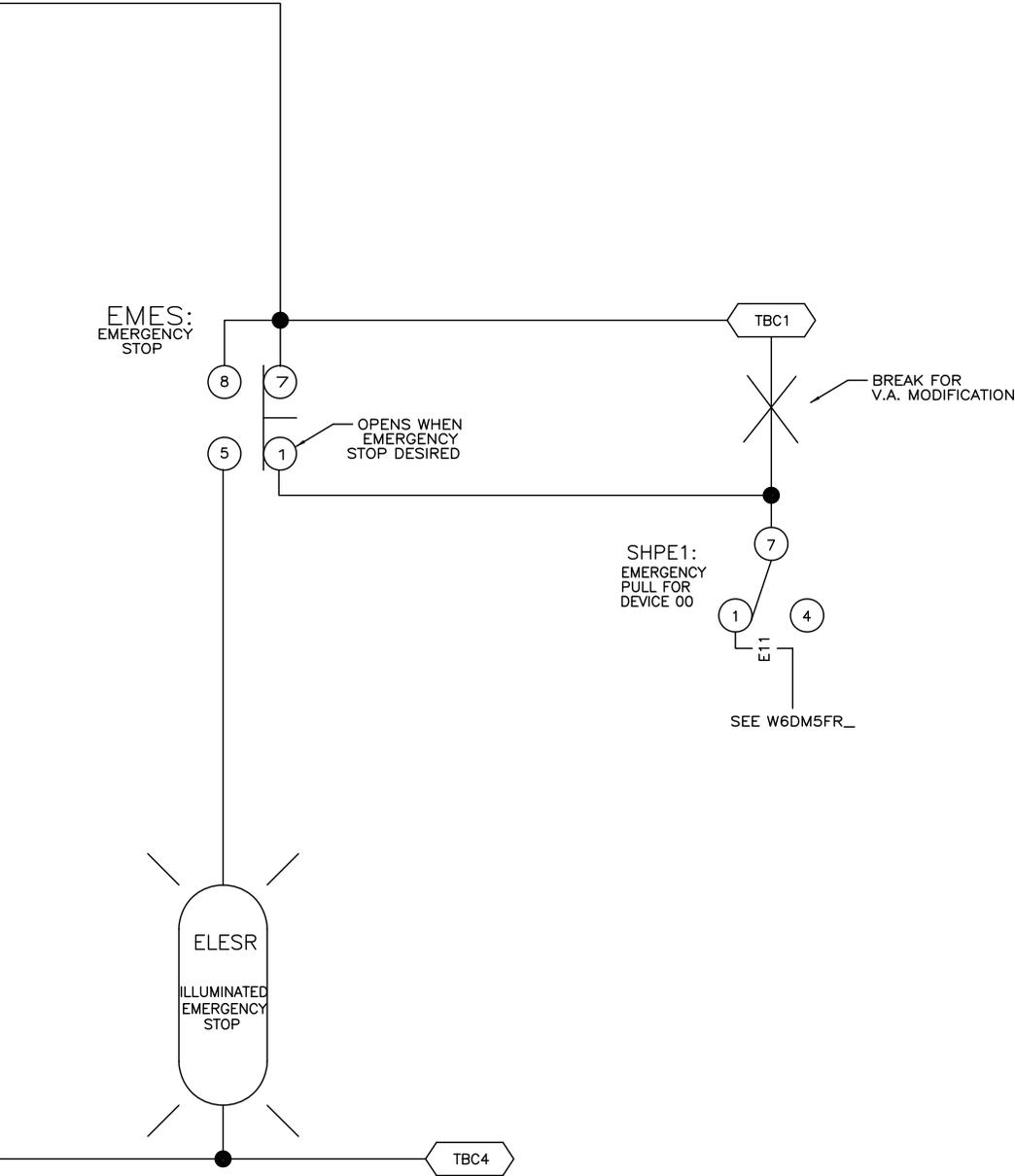
NOTES:

1. THIS SCHEMATIC IS USED IF TWO BELTS ARE CONTROLLED AS ONE MILTRAC DEVICE. THE SLAVE BELT CONTROLLER IS WIRED TO THE MASTER BELT CONTROLLER.
2. TBC IS LOCATED IN THE BELT REVERSING CONTROL BOX OF EACH BELT.
3. DOTTED LINES INDICATED THAT CONTROLS ARE LOCATED IN THE MASTER BELT CONTROL BOX.
4. FORWARD INDICATES THE FLOW OF GOODS

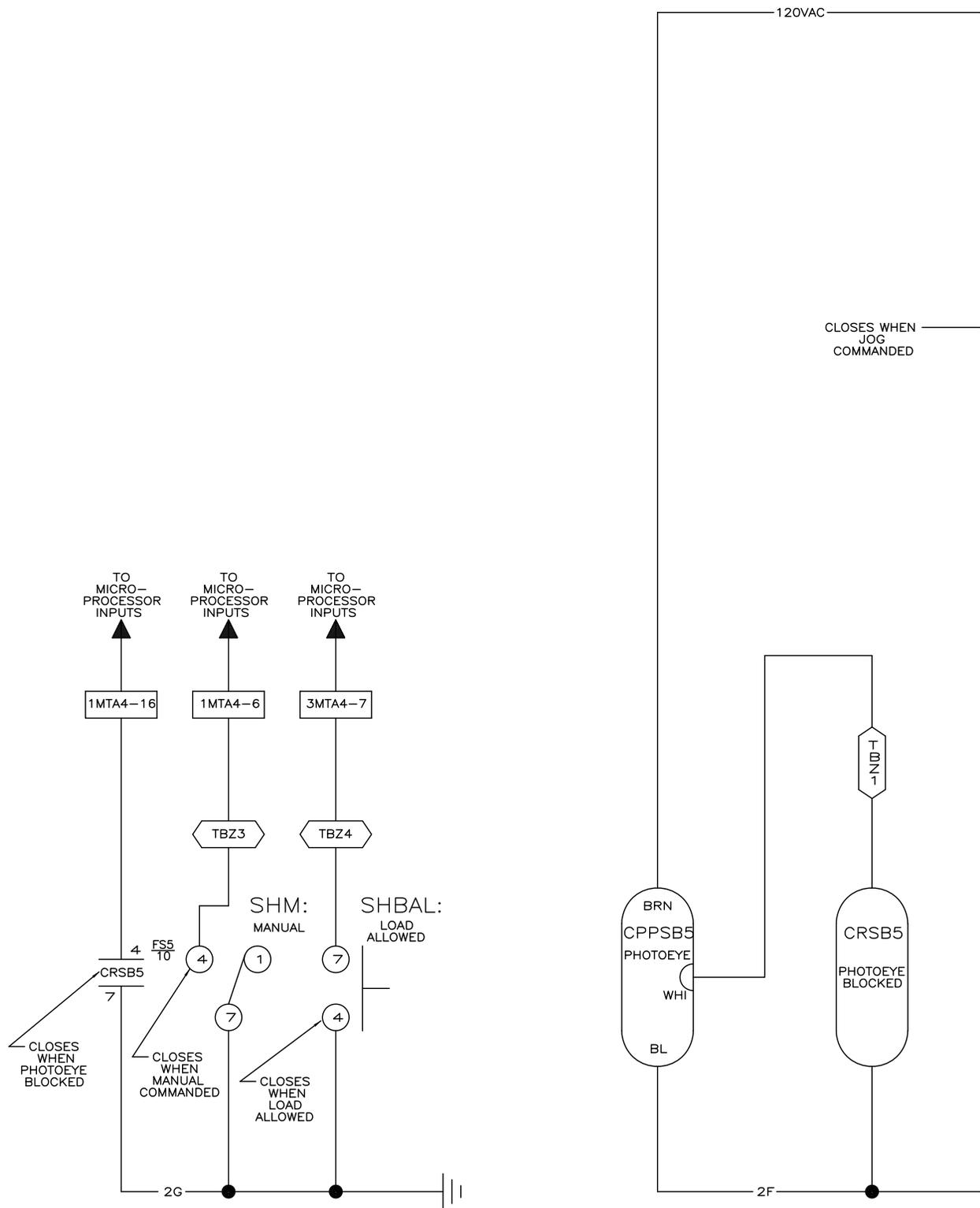
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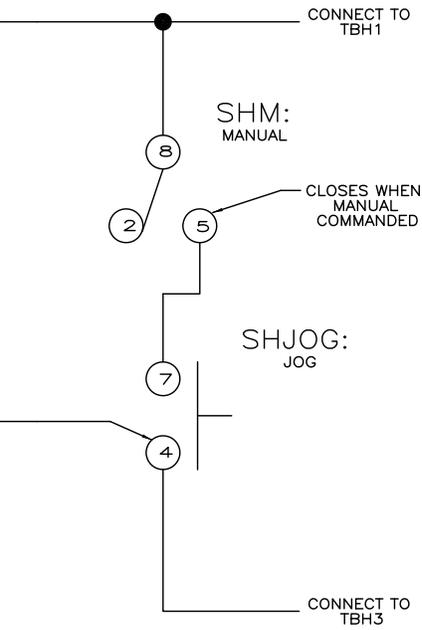
00 01 02 03 04 05 06 07 08 09 10



W6DM5FRVA
 MICRO 6 SYSTEMS
 SCHEMATIC: TYPICAL MODIFICATION
 FOR BELT CONTROLLERS
 FOR V.A. MEDICAL CENTER
 110V1P50HZ/120V60HZ
 PELLERIN MILNOR CORPORATION

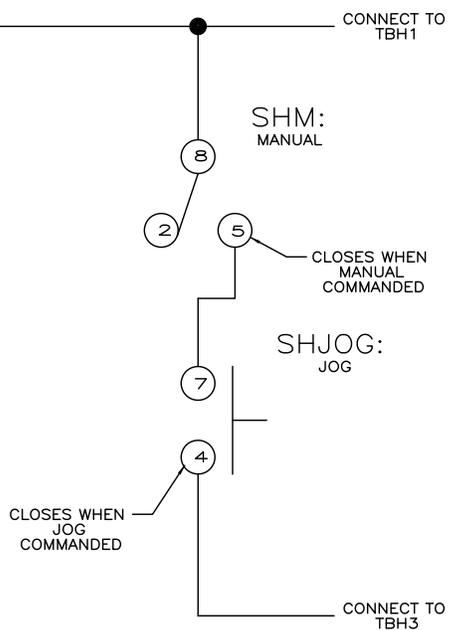


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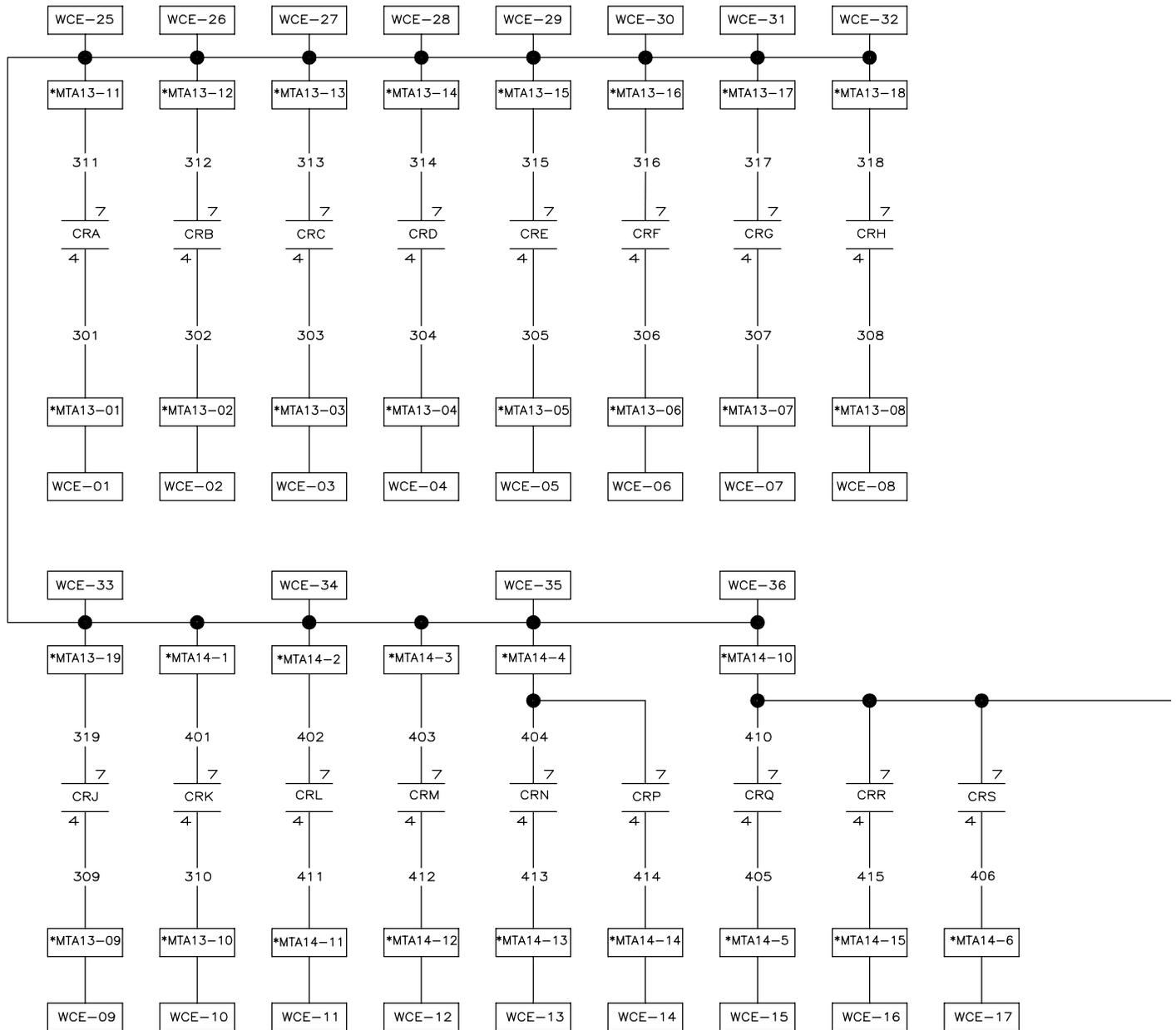
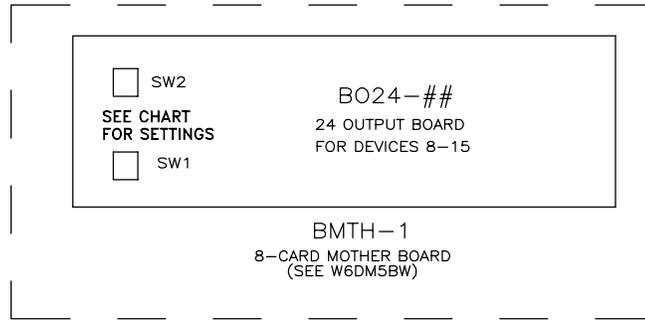


11 12 13 14 15 16 17 18 19

W6DM4FS5
 MICRO 6 SYSTEMS
 SCHEMATIC: FEEDER/SEQUENCER
 BELT #5
 PELLERIN MILNOR CORPORATION



W6DM4FS6
MICRO 6 SYSTEMS
SCHEMATIC: FEEDER/SEQUENCER
BELT #6
PELLERIN MILNOR CORPORATION



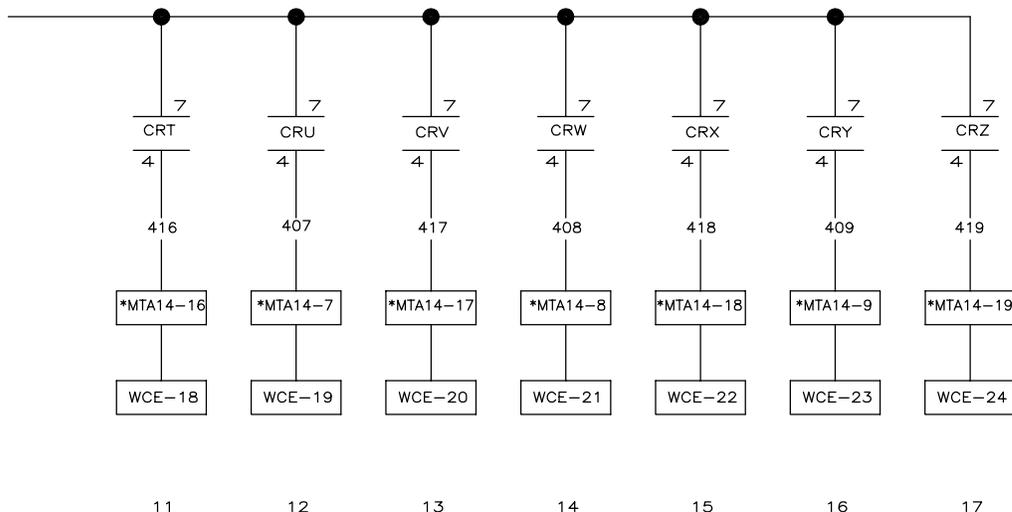
01 02 03 04 05 06 07 08 09 10

OUTPUT TABLE

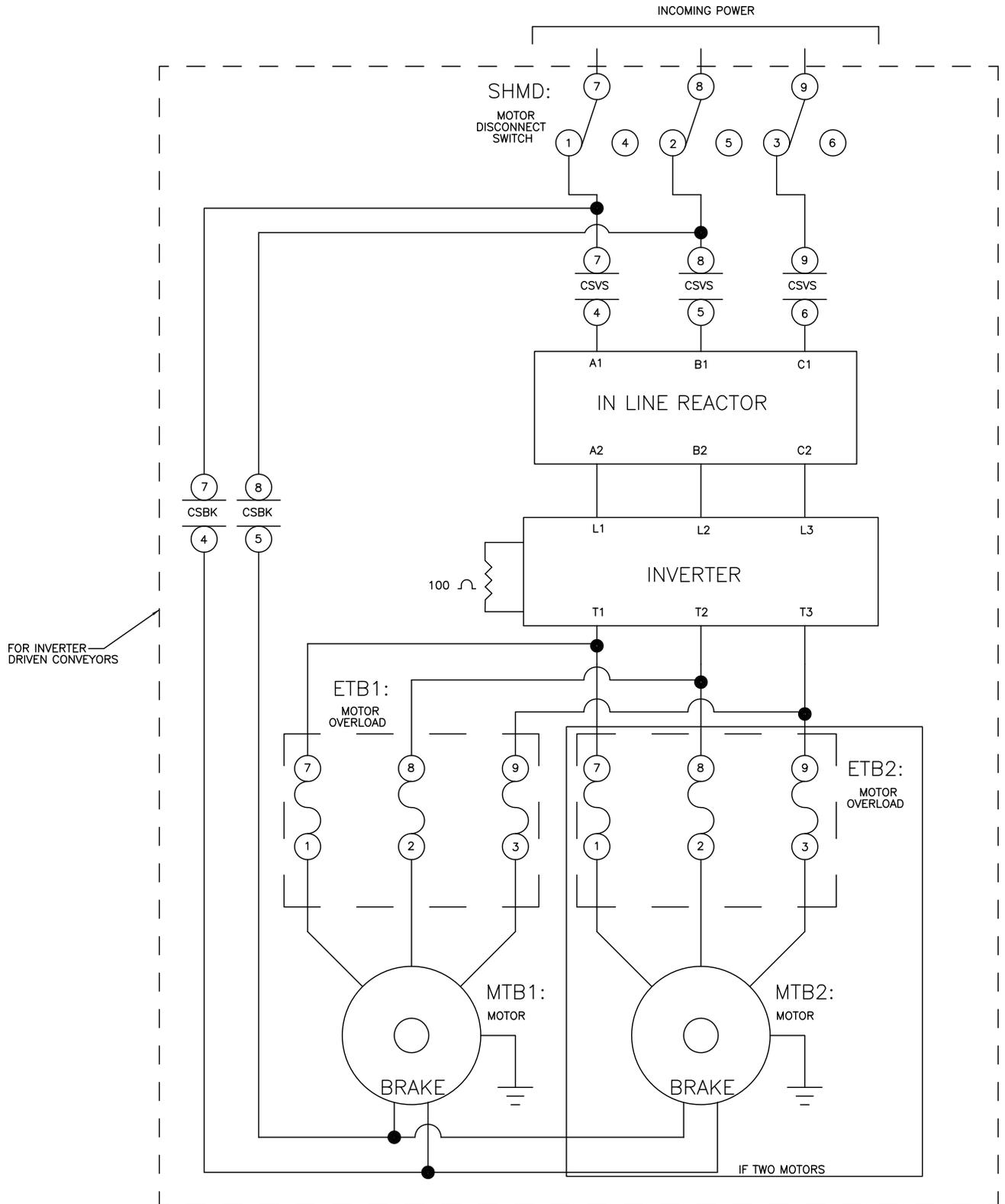
OUTPUT NUMBER	OUTPUT NAME	BOARD ADDRESS		BOARD ADDRESS		OUTPUT NUMBER	OUTPUT NAME	BOARD ADDRESS		BOARD ADDRESS	
		SW2	SW1	SW2	SW1			SW2	SW1	SW2	SW1
		1	1	9	1						
0	CRA	LOAD WAITING DEVICE 0		LOAD WAITING DEVICE 8		12	CRN	LOAD WAITING DEVICE 6		LOAD WAITING DEVICE 14	
1	CRB	GOODS DIFFERENT DEVICE 0		GOODS DIFFERENT DEVICE 8		13	CRP	GOODS DIFFERENT DEVICE 6		GOODS DIFFERENT DEVICE 14	
2	CRC	LOAD WAITING DEVICE 1		LOAD WAITING DEVICE 9		14	CRQ	LOAD WAITING DEVICE 7		LOAD WAITING DEVICE 15	
3	CRD	GOODS DIFFERENT DEVICE 1		GOODS DIFFERENT DEVICE 9		15	CRR	GOODS DIFFERENT DEVICE 7		GOODS DIFFERENT DEVICE 15	
4	CRE	LOAD WAITING DEVICE 2		LOAD WAITING DEVICE 10		16	CRS	--	--	--	--
5	CRF	GOODS DIFFERENT DEVICE 2		GOODS DIFFERENT DEVICE 10		17	CRT	--	--	--	--
6	CRG	LOAD WAITING DEVICE 3		LOAD WAITING DEVICE 11		18	CRU	--	--	--	--
7	CRH	GOODS DIFFERENT DEVICE 3		GOODS DIFFERENT DEVICE 11		19	CRV	--	--	--	--
8	CRJ	LOAD WAITING DEVICE 4		LOAD WAITING DEVICE 12		20	CRW	--	--	--	--
9	CRK	GOODS DIFFERENT DEVICE 4		GOODS DIFFERENT DEVICE 12		21	CRX	--	--	--	--
10	CRL	LOAD WAITING DEVICE 5		LOAD WAITING DEVICE 13		22	CRY	--	--	--	--
11	CRM	GOODS DIFFERENT DEVICE 5		GOODS DIFFERENT DEVICE 13		23	CRZ	--	--	--	--

DEVICE NUMBER	BOARD ADDRESS	
	SW2	SW1
0		
1		
2		
3	1	1
4		
5		
6		
7		
8		
9	9	1
10		
11		
12		
13		
14		
15		

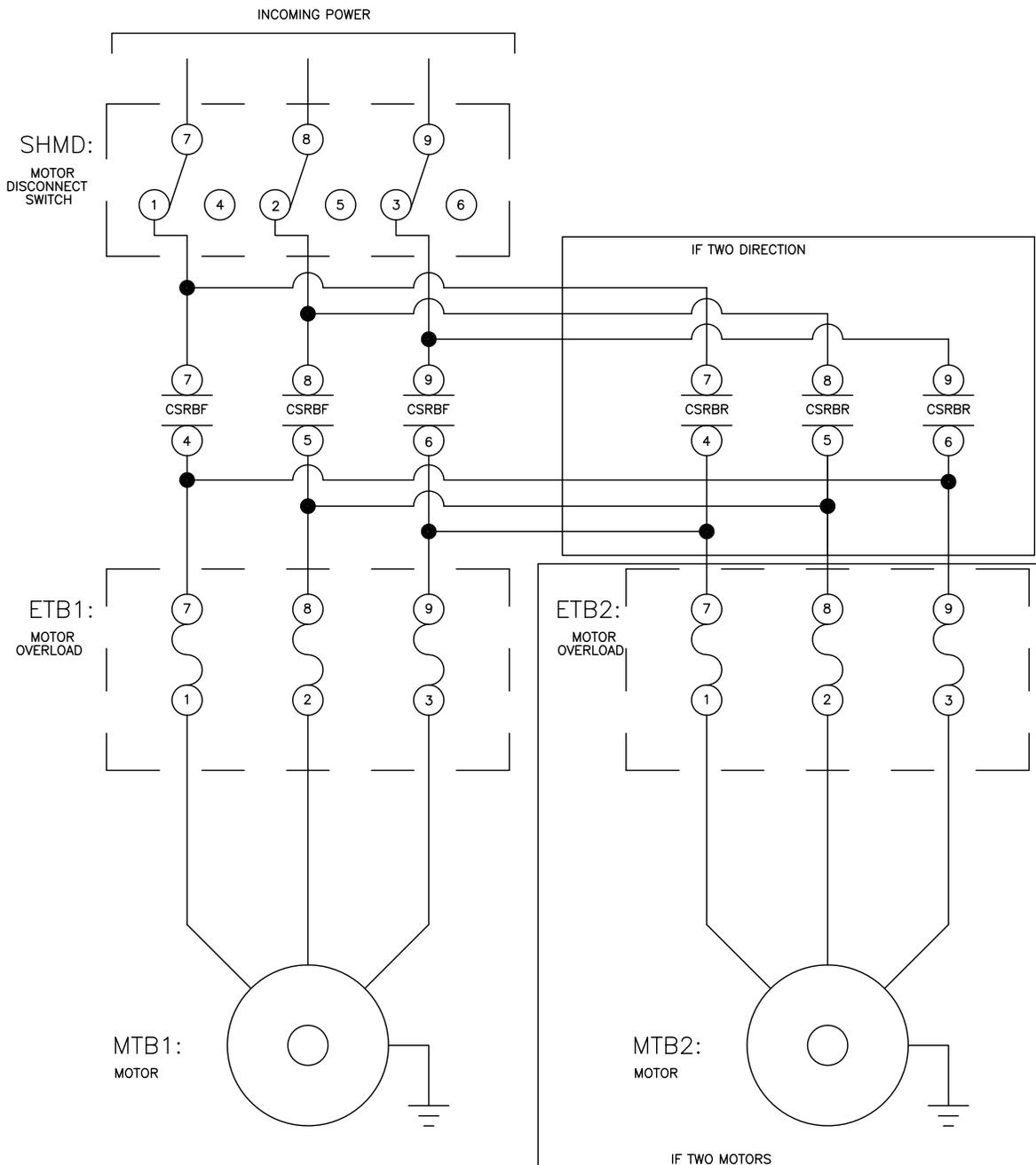
W6DM5LW
 MICRO 6 SYSTEMS
 SCHEMATIC: DEVICE MASTER LOAD WAITING
 DIFFERENT CUSTOMER (24 OUTPUT)
 PELLERIN MILNOR CORPORATION



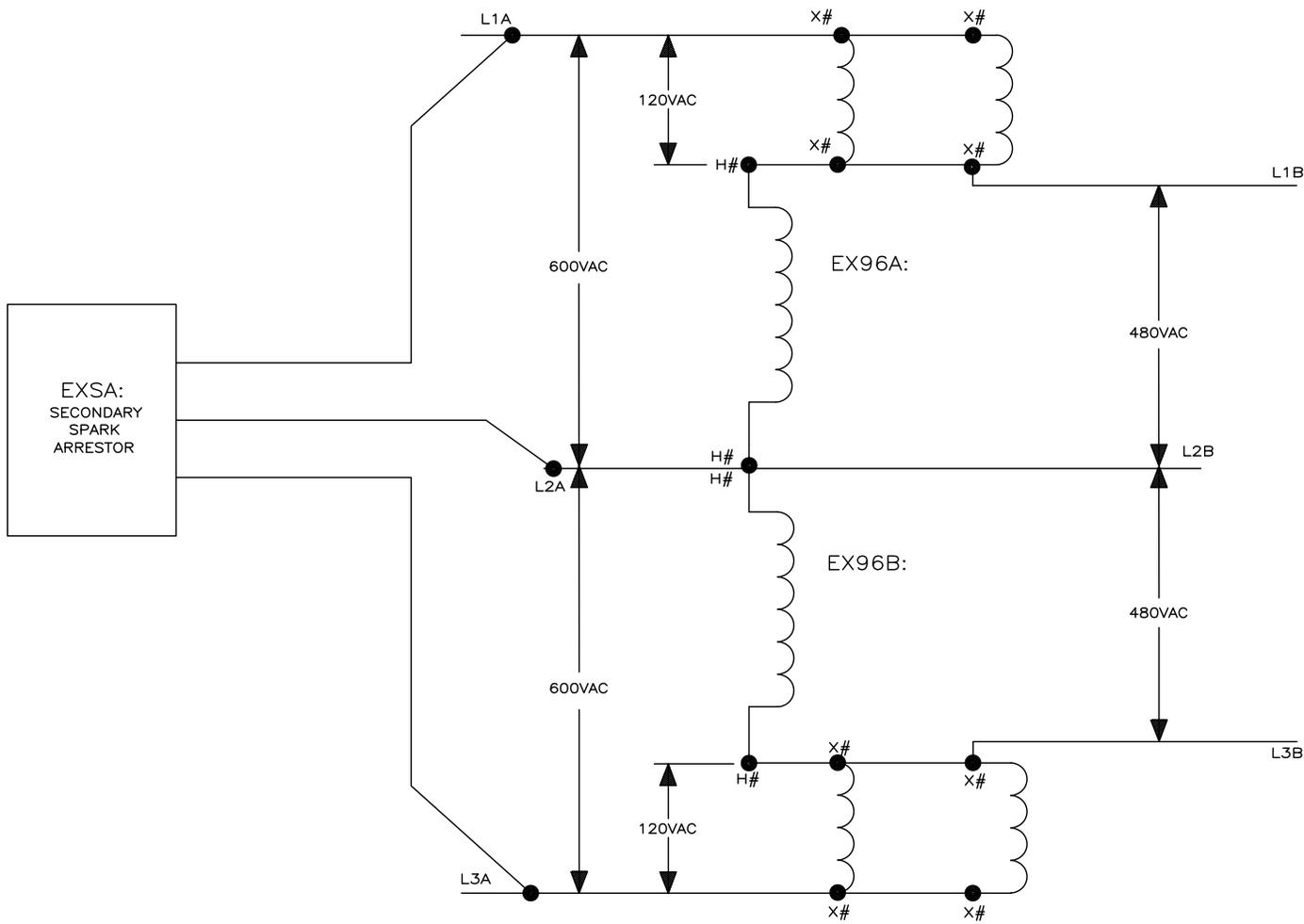
- NOTE:**
1. THE BOARD WIRING SHOWN IS TYPICAL. REFER TO THE DIP SWITCH CHART FOR CORRECT DIP SWITCH SETTING FOR EACH DEVICE
 2. THE ASTERISK (*) IN THE MTA DESIGNATION REPRESENTS THE BOARD ADDRESS AS GIVEN ON THE OUTPUT TABLE
 3. REFER TO THE OUTPUT TABLE FOR A FUNCTIONAL DESCRIPTION OF THE OUTPUTS FOR EACH BOARD ADDRESS.



00 01 02 03 04 05 06 07 08 09



W6DM4MR
MICRO 6 SYSTEMS
SCHEMATIC: TYPICAL BELT MOTOR WIRING
PELLERIN MILNOR CORPORATION



REFER TO TRANSFORMER WIRING DIAGRAM FOR APPROPRIATE WIRE NUMBERS.

THE PRIMARY OF EACH TRANSFORMER NOTED BY H# MUST BE WIRED FOR 480 VOLTS. THE SECONDARY OF EACH TRANSFORMER NOTED BY X# MUST BE WIRED FOR 120 VOLTS.

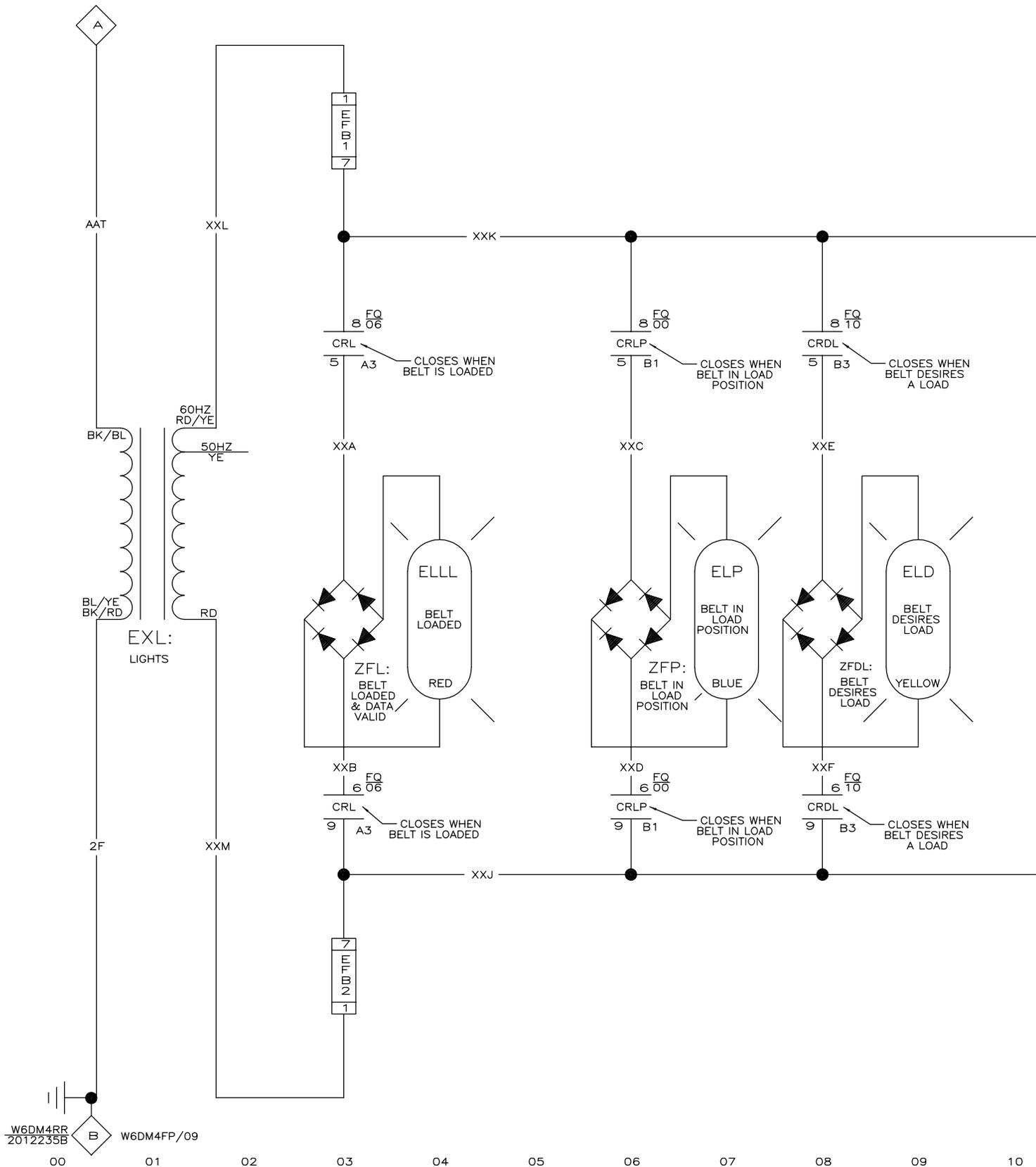
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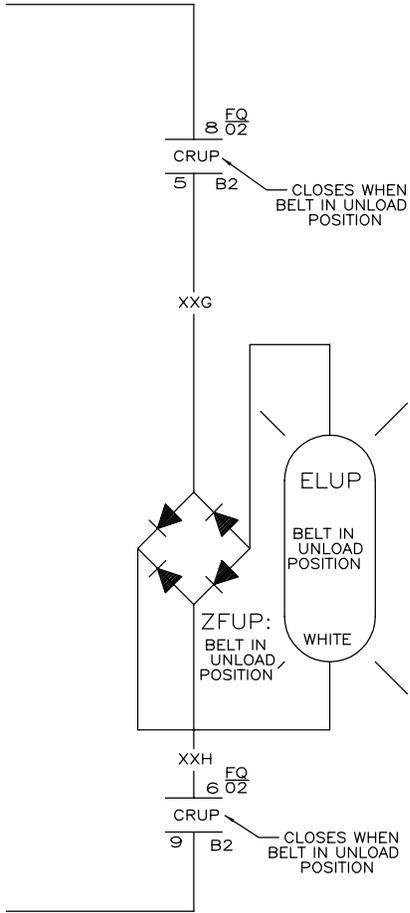
W6DM4MR6
MICRO 6 SYSTEMS
PELLERIN MILNOR CORPORATION

SCHEMATIC: 600V TO 480V STEP DOWN INVERTER DRIVE ONLY

W6DM4MR6
2019444B

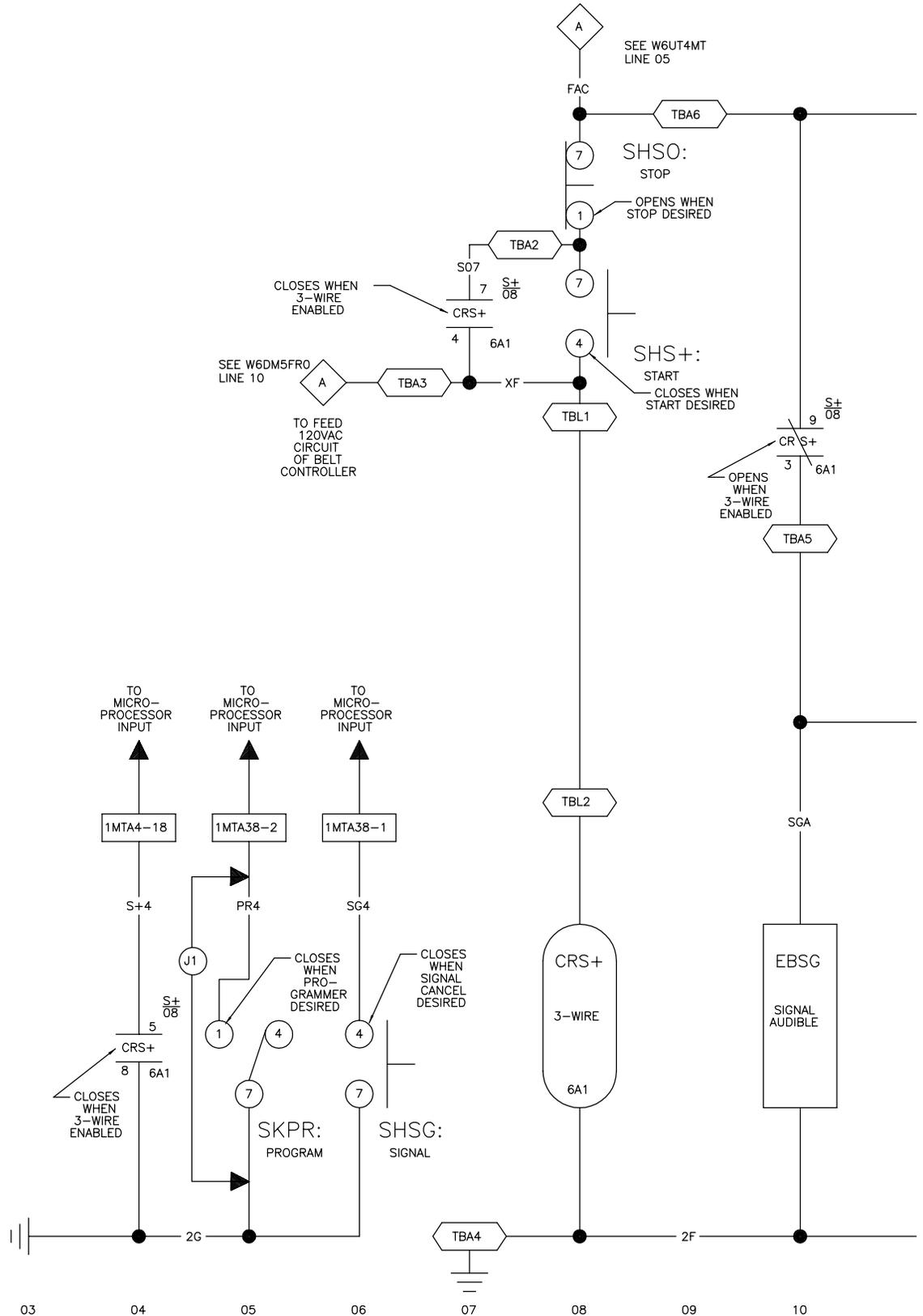
SEE SCHEMATIC W6DMCFP/09





W6DM4RR
MICRO 6 SYSTEMS
SCHEMATIC: BELT CONTROLS FOR DEVICE
MASTER LOADING BELT
110V50HZ/120V60HZ
PELLERIN MILNOR CORPORATION

S+07
S+04
S+10



01

02

03

04

05

06

07

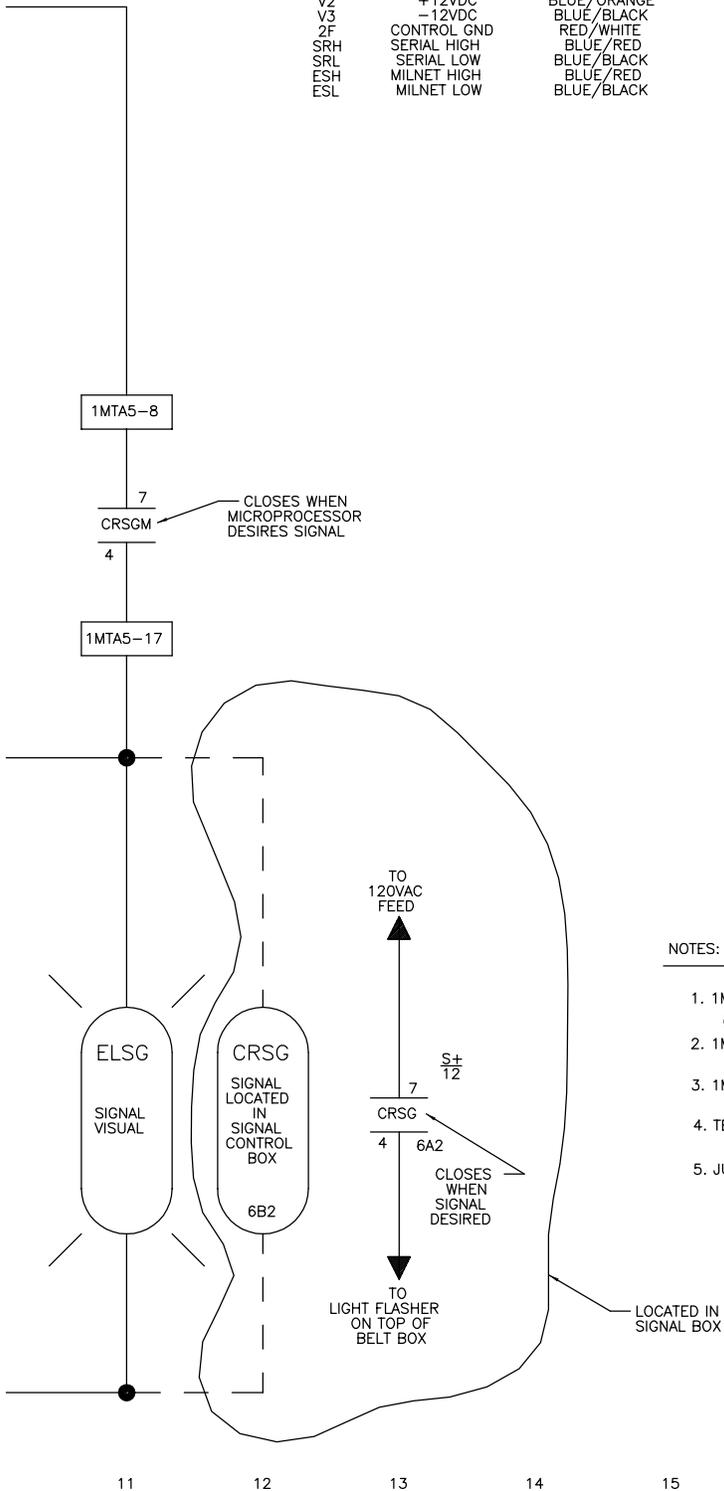
08

09

10

WIRE COLORING CODE

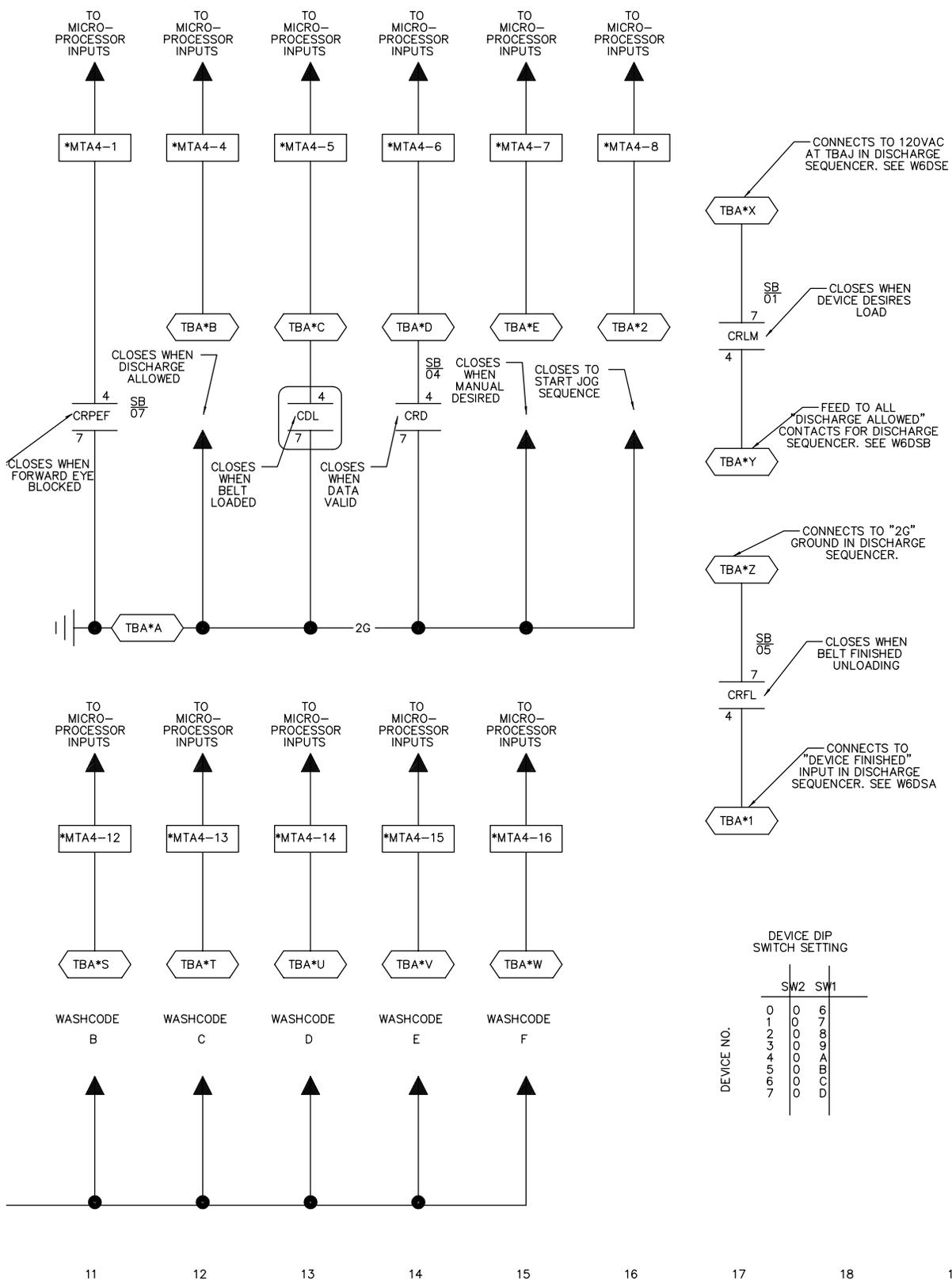
WIRE NO.	VOLTAGE	WIRE COLOR
V1	+5VDC	BLUE
V2	+12VDC	BLUE/ORANGE
V3	-12VDC	BLUE/BLACK
2F	CONTROL GND	RED/WHITE
SRH	SERIAL HIGH	BLUE/RED
SRL	SERIAL LOW	BLUE/BLACK
ESH	MILNET HIGH	BLUE/RED
ESL	MILNET LOW	BLUE/BLACK



NOTES:

1. 1MTD, 1MTP ARE LOCATED ON ESPS (POWER SUPPLY).
2. 1MTA31, 1MTA32, 1MTA33, 1MTA34, 1MTA38 ARE LOCATED ON BPB (PROCESSOR BOARD).
3. 1MTA1, 1MTA2, 1MTA3, 1MTA4, 1MTA5, ARE LOCATED ON BIO-1 (8 OUTPUT - 16 INPUT BOARD).
4. TBA IS LOCATED IN 8 OUTPUT - 16 INPUT BOX OR MULTITRAC CABINET.
5. JUMPER (J1) IS ADDED FOR P.C. DEVICE MASTER.

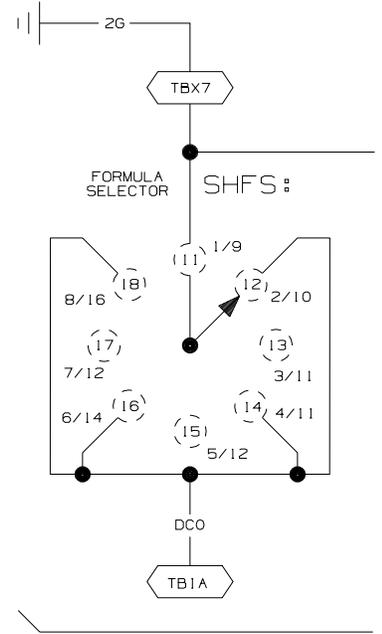
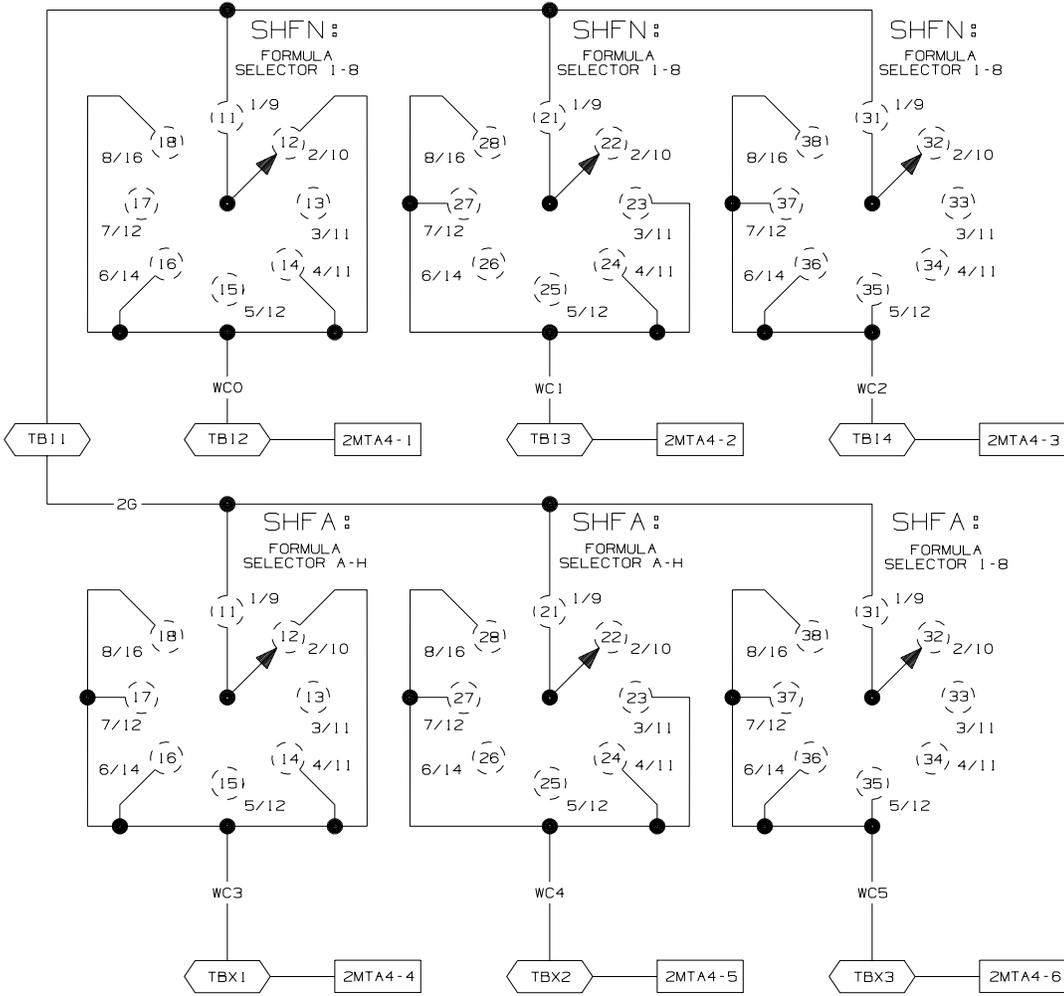
W6DM5S+
MICRO 6 SYSTEMS
SCHEMATIC: 3-WIRE CIRCUIT
110V1P50HZ/120V1P60HZ
PELLERIN MILNOR CORPORATION



W6DM4SB
 MICRO 6 SYSTEMS
 SCHEMATIC: SPECIAL BOARD WIRING
 FOR DEVICE MASTER
 PELLERIN MILNOR CORPORATION

DEVICE DIP SWITCH SETTING

DEVICE NO.	SW2	SW1
0	0	6
1	0	7
2	0	8
3	0	9
4	0	A
5	0	B
6	0	C
7	0	D



00

01

02

03

04

05

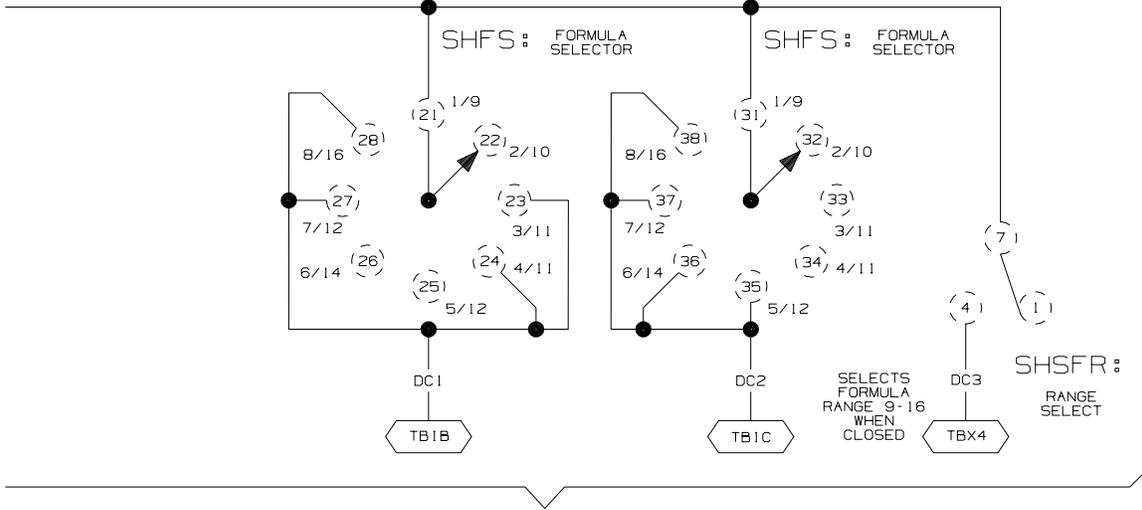
06

07

08

09

10



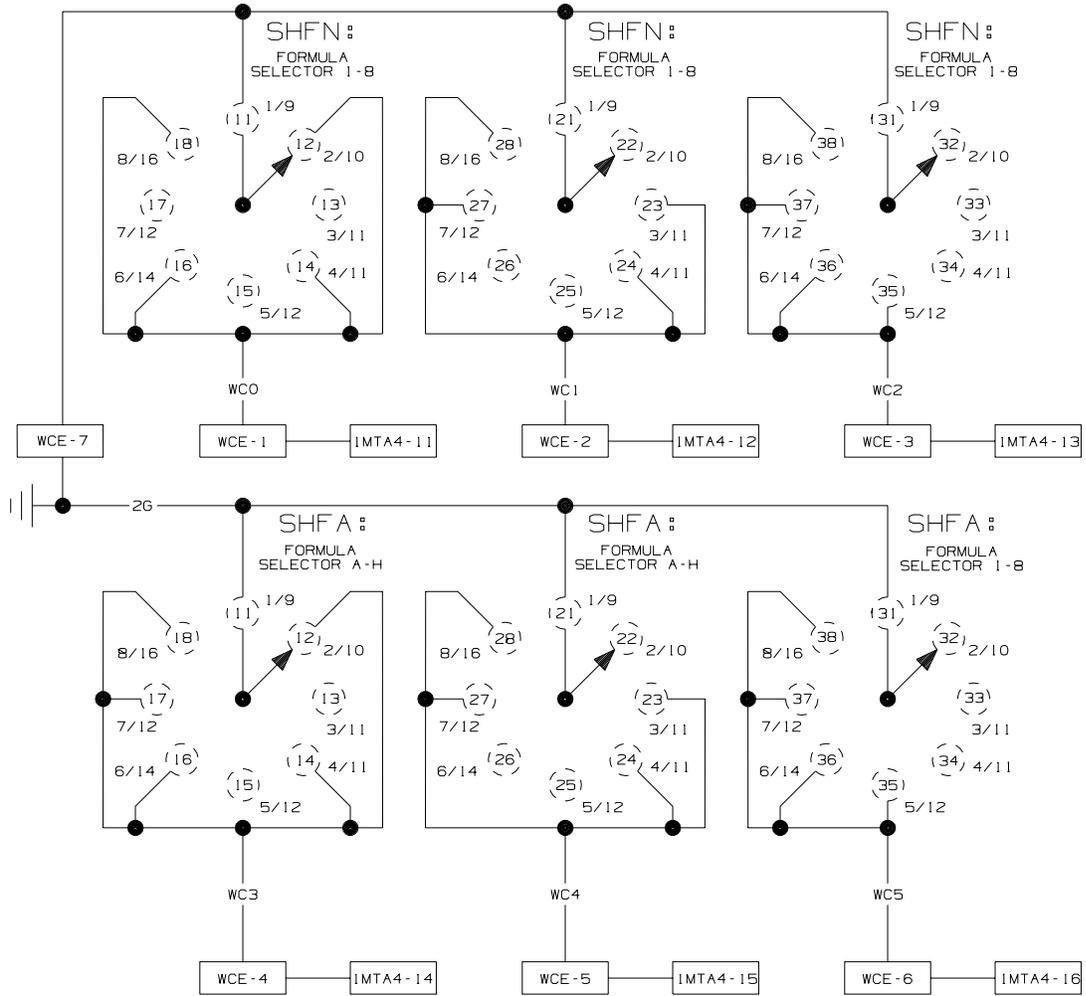
REMOTE FORMULA SELECTOR STATION OPTION
FOR DESTINATION AND/OR DRY CODES

W6DMCSD

DEVICE MASTER

MICRO 6 SYSTEM SERIAL CONTROLS
SCHEMATIC: REMOTE FORMULA, DRY CODE, &
DESTINATION SELECTION SWITCH

PELLERIN MILNOR CORPORATION



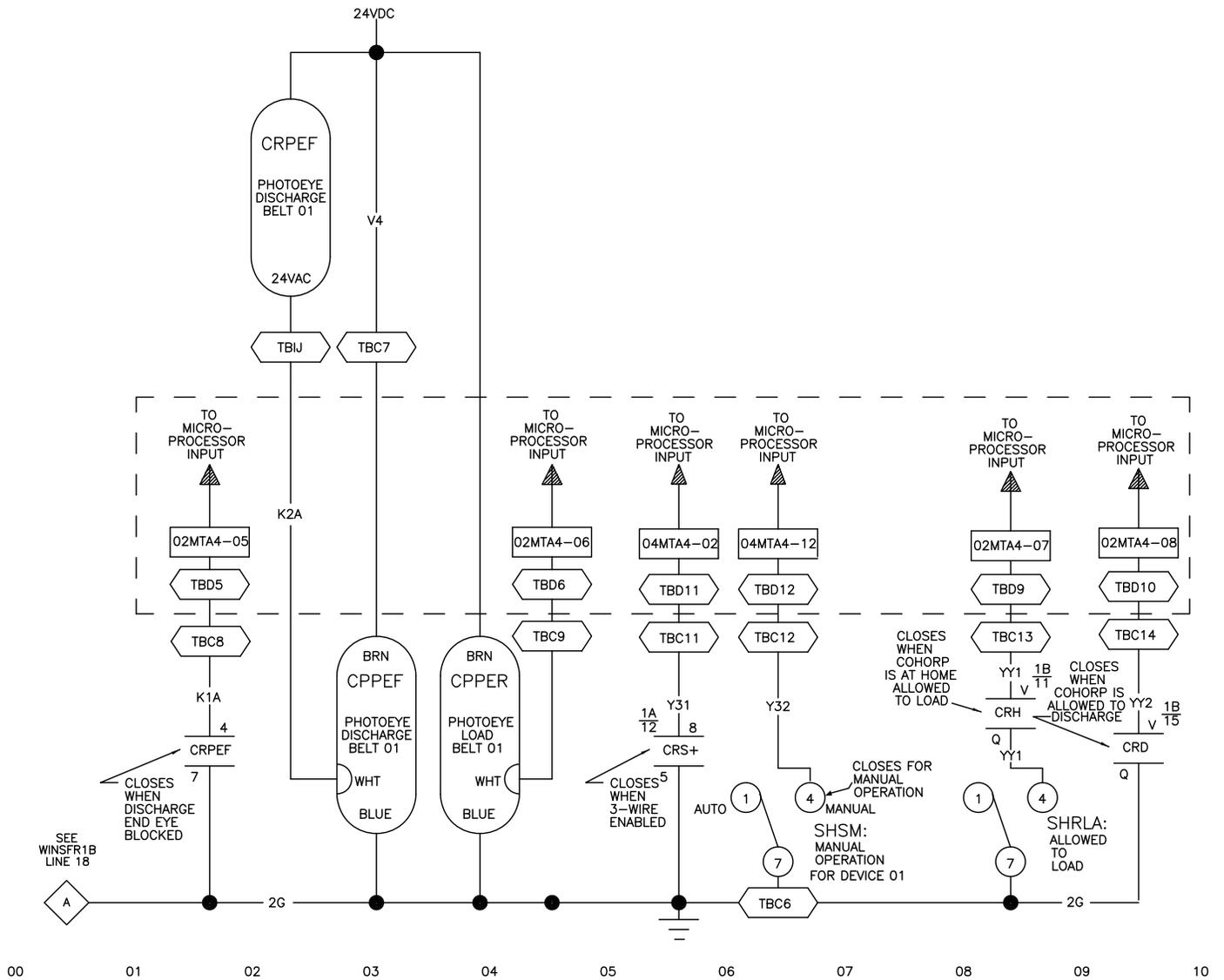
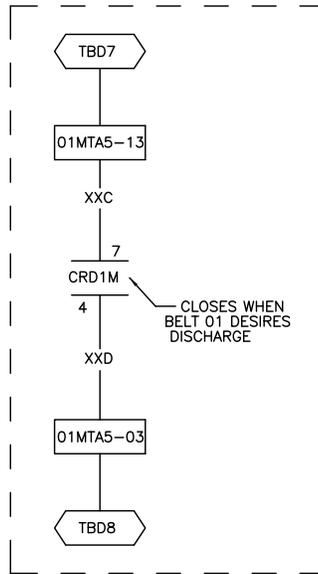
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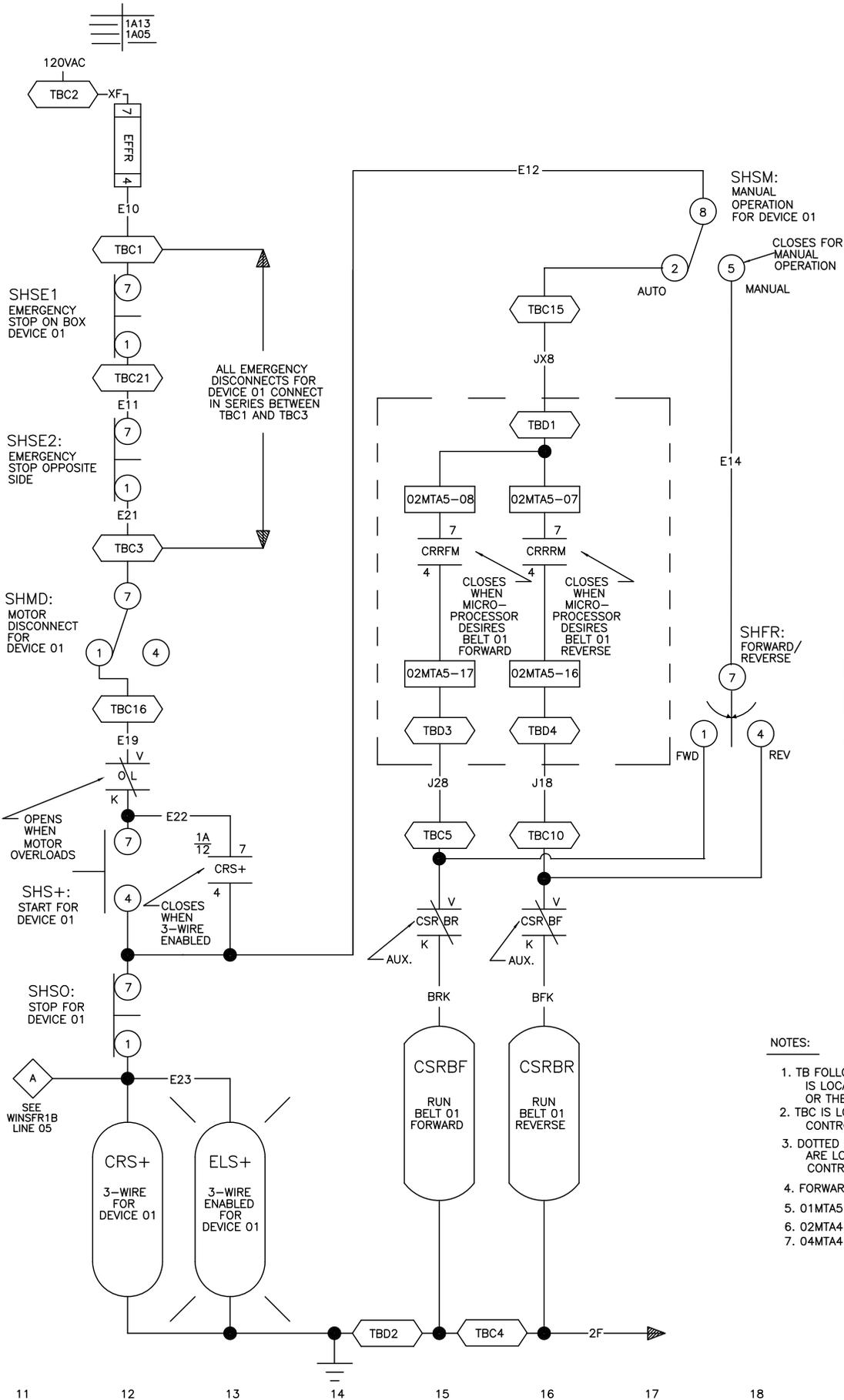
REMOTE WASH FORMULA

WASH CODE	SW N	SW A	WASH CODE	SW N	SW A	WASH CODE	SW N	SW A	WASH CODE	SW N	SW A
01	1	A	17	1	C	33	1	E	49	1	G
02	2	A	18	2	C	34	2	E	50	2	G
03	3	A	19	3	C	35	3	E	51	3	G
04	4	A	20	4	C	36	4	E	52	4	G
05	5	A	21	5	C	37	5	E	53	5	G
06	6	A	22	6	C	38	6	E	54	6	G
07	7	A	23	7	C	39	7	E	55	7	G
08	8	A	24	8	C	40	8	E	56	8	G
09	9	B	25	9	D	41	9	F	57	9	H
10	10	B	26	10	D	42	10	F	58	10	H
11	11	B	27	11	D	43	11	F	59	11	H
12	12	B	28	12	D	44	12	F	60	12	H
13	13	B	29	13	D	45	13	F	61	13	H
14	14	B	30	14	D	46	14	F	62	14	H
15	15	B	31	15	D	47	15	F	63	15	H
16	16	B	32	16	D	48	16	F	64	16	H

W6DM4SF
 MICRO 6 SYSTEMS
 SCHEMATIC: REMOTE FORMULA SELECTION
 SWITCH
 PELLERIN MILNOR CORPORATION

1B10	1A01
	1B12





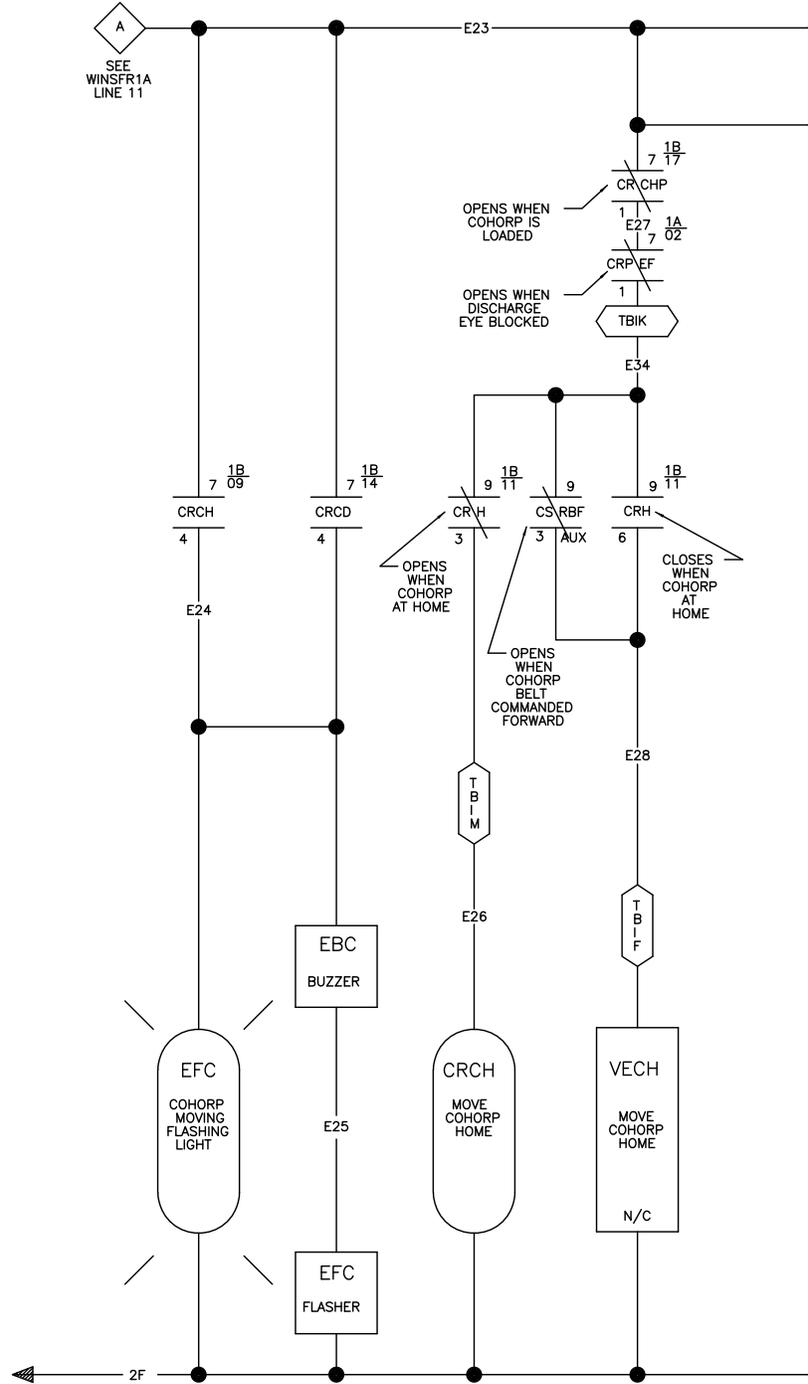
WINSFR1A
MICRO 6 SYSTEMS CONTROLS FOR
FORWARD & REVERSE
FOR BELT 1 COHORP
110V1P50HZ/120V60HZ
PELLERIN MILNOR CORPORATION

NOTES:

1. TB FOLLOWED BY LETTER THEN DEVICE NUMBER IS LOCATED IN THE MULTITRAC CONTROL BOX OR THE DEVICE MASTER CONTROL BOX.
2. TBC IS LOCATED IN THE BELT REVERSING CONTROL BOX.
3. DOTTED LINES INDICATE THAT CONTROLS ARE LOCATED IN THE MULTITRAC CONTROL BOX.
4. FORWARD INDICATES THE FLOW OF GOODS
5. 01MTA5 IS LOCATED ON BIO-01
6. 02MTA4 AND 02MTA5 ARE LOCATED ON BIO-02
7. 04MTA4 IS LOCATED ON BIO-04

11 12 13 14 15 16 17 18 19

1B07



00 01 02 03 04 05 06 07 08 09 10

Device Master Allied Interfaces

3

Device Master™ Allied Dryer Interface

The role of Device Master in a Milnor® automated laundering system is to represent an allied (non-Milnor) device as a Milnor device to Milnor's Miltrac™ system controller. The seven generic device types currently defined by the PC Device Master software accommodate a variety of allied equipment. One device type is Type 3, Allied Dryer (see manual MTYCDR01, “Technical Reference—Using the Device Master Controller”). This generic type, along with the Device Master inputs and outputs described herein, comprise the Device Master allied dryer interface, and provide better control of an allied dryer than can be achieved otherwise.

This document summarizes the Device Master allied dryer interface signals available and identifies them in the Device Master circuitry. These signals have the same electrical and functional specifications as stated in document BICALC02, “Milnor Allied Interface Specifications and Signals...” in manual MTPALI01 “Installation—Allied Interfaces...”

1. What the Device Master Allied Dryer Interface Does

Milnor shuttles provide an allied discharge interface (see document BICALC02, “Milnor Allied Interface Specifications and Signals...”) that can be used to electrically interface the shuttle with an allied dryer. However, because this interface is independent of Miltrac, Miltrac functionality is unavailable to the allied dryer. For example, Miltrac cannot sequence the loading of an allied dryer within a bank of dryers in a Miltrac system. Device Master device Type 3, Allied Dryer solves this problem by permitting an allied dryer to appear to, and be handled by Miltrac as a Milnor dryer.

For discharge to a belt, Device Master device Type 3 also provides a means of interfacing an allied dryer with a dryer discharge conveyor. Milnor does not offer a dedicated belt controller with an allied loading interface to perform this function.

2. Summary of Device Master Allied Dryer Signals

The Device Master allied dryer interface passes only the batch data needed for dryer processing. This currently includes four binary outputs which provide for 16 drycodes and one output to signal a partial (single cake) load. There is no need to pass batch data for down-stream devices (if any). This is handled by Miltrac.

Table 1 lists the operational signals passing between Device Master and the allied dryer and relates them to the generic functions described in document BICALC13, “Summary of Milnor Allied Interface Capability...” in manual MTPALI01 “Installation—Allied Interfaces...” The operational signals have meanings similar to those of the allied interfaces that this interface can be used in place of (such as a Milnor shuttle discharge interface). However, the words “input” and “output” in the following tables refer to the Device Master controller, as opposed to the Milnor machine controller (such as a shuttle controller) that would otherwise provide the interface.

Table 1: Operational Functions and Available Signals

Function Type-->	Directional Functions				Transfer Functions						Confirmation Functions			
Function Name-->	2nd level	Opposite side	At left	At right	Early call	Dis-charge desired	Load desired	Load-ing mode	Dis-charge al-lowed	Load al-lowed	Trans-fer not com-plete	Error: cancel trans-fer	data valid	trans-fer com-plete
Physical Interface														
* All batch data outputs close at this time, as well.														

3. Signals—Device Master Allied Dryer Interface

The signals tables provided herein are organized much the same as those in “Milnor Allied Interface Specifications and Signals...” in manual MTPALI01 “Installation—Allied Interfaces...” However, with Device Master, the various interface functions (such as load desired) can be considered either a loading or a discharge function, depending on whether they are viewed from the standpoint of the allied device (which Device Master represents) or the Milnor device it is physically interfaced with. To avoid confusion resulting from this ambiguity, Device Master interfaces are not identified as to “loading” or “discharge” the way Milnor machine allied interfaces (and their “signals” tables) are.

As with machine interfaces, some Device Master signals pass **numeric** values in binary and others are used individually to pass **non-numeric** (on/off) values. The receiving device can read the groups of numeric signals in any order as long as it reads this data during the window of time within which it is valid. However, because each signal within a group of numeric signals represents a specific digit of the binary number, the order of significance of the signals (**digit order**) must be understood and must match on sending and receiving devices. Most non-numeric signals provide operational information which must be exchanged according to a predetermined “handshaking” scheme. Hence, the sequence in which operational signals occur (**enabling order**) is critical. Accordingly, the signal information is presented in two tables:

1. **Numeric signals and digit order**—In this table, signals are depicted in digit order; that is, the way they would be read as a binary number. The rightmost **column** represents the signal that carries the least significant digit. Each adjacent **column** to the left is the signal representing the digit of next higher significance. The table is divided into **row** groups—one row group for each batch code provided. Each row group provides pertinent information for the signals used with that batch code.
2. **Non-numeric signals and enabling order**—In this table, each **row** represents a signal and each **column** provides pertinent information for that signal. Generally, these signals must be exchanged by the interfaced devices in the order listed. The labels given to operational signals in the schematics can vary from device to device. However, the document “Summary of Milnor Allied Interface Capability” provides generic names for these. The right-hand column of this table provides both the generic (function) name and the signal name as shown in the schematic, except where these are the same.

Table 2: Numeric Signals and Digit Order—Device Master Allied Dryer Interface

Signal name on schematic (e.g., Drycode A, B, etc.)-->		Common Conn. *	Most Significant	Dedicated Connections (Binary Data Signals)							Least Significant		
				K	J	H	G	F	E	D		C	B
16 Drycodes (00 - 15)	Multi-terminal	n/a								TBK	TBK	TBK	TBK
	Pin Number	n/a								U • V	S • T	Q • R	L • M
	Wire Number	n/a								AAU • AAV	AAS • AAT	AAQ • AAR	AAL • AAM
	Display/code	--								**	**	**	**
	Board/code***	--								io_/6	io_/5	io_/4	io_/3

* For outputs from Device Master, Milnor does not normally assign either pin of the potential-free contact as the common. Hence, both pins have unique pin and wire numbers. In this table, these are listed together in the same cell with a dot between (e.g., U • V).

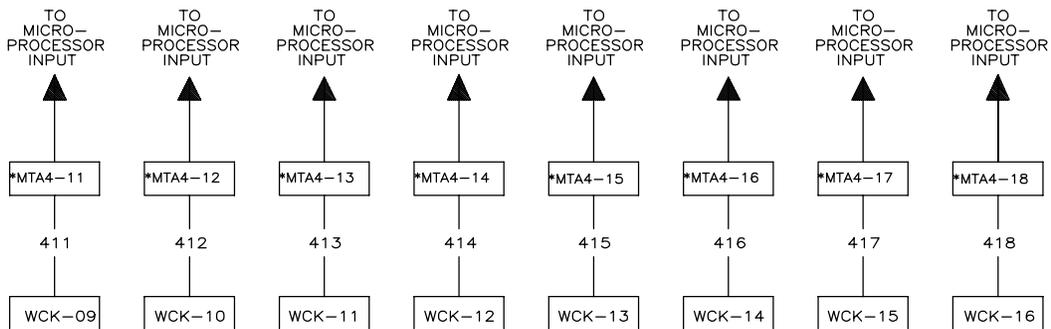
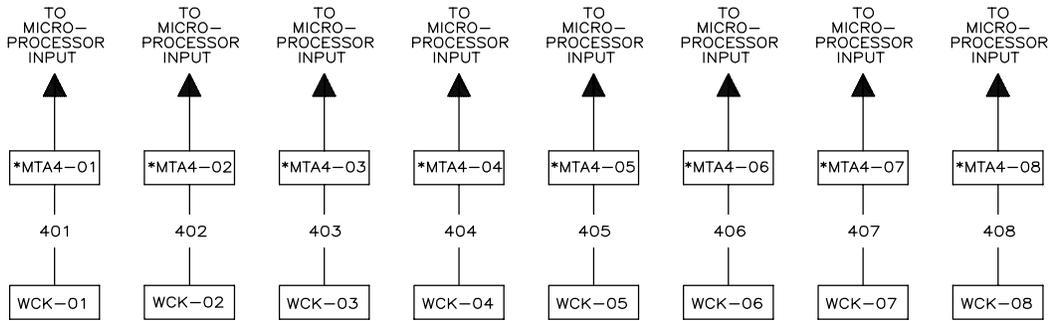
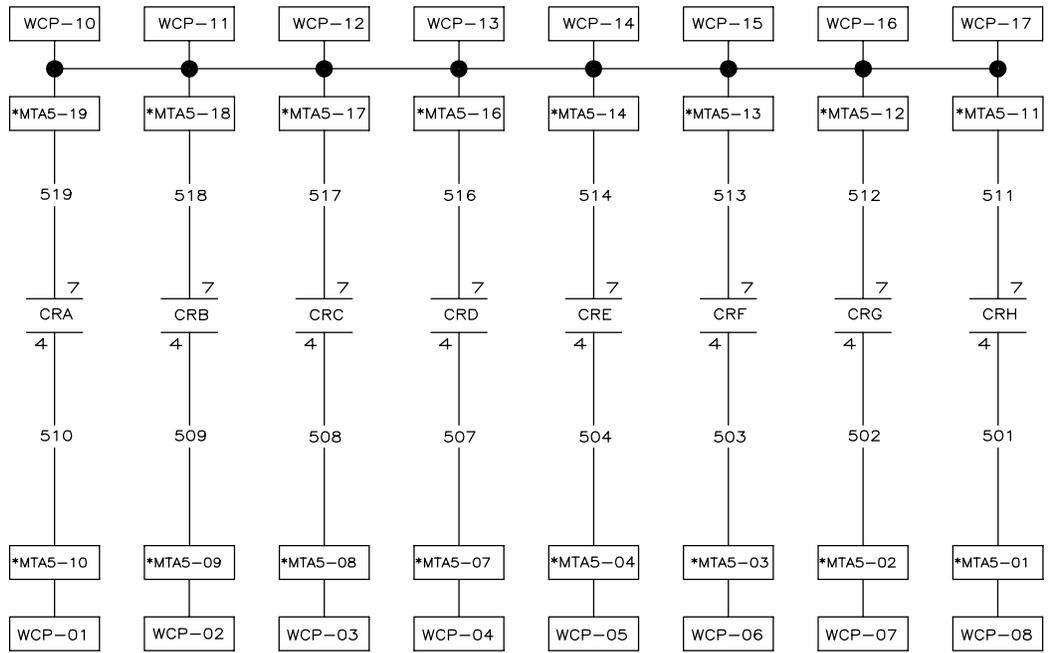
** The PC Device Master software provides an intuitive "Device Inputs and Outputs" window for viewing input/output status. See manual MTYCDR01, "Technical Reference—Using the Device Master Controller"

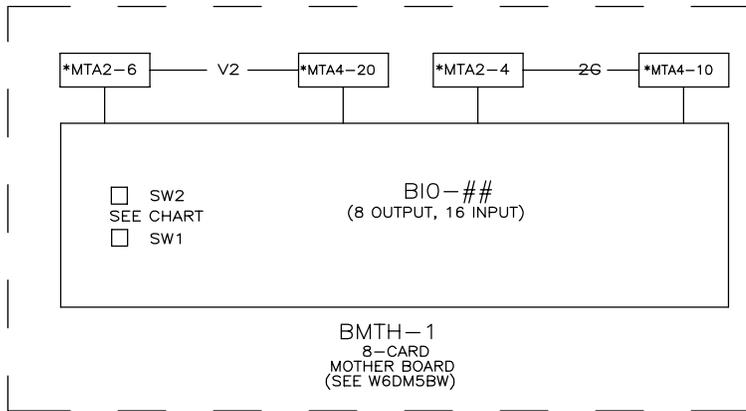
*** The underscore in the third character position of the board/code (e.g., io_/6) represents the board number and depends on the device number of the dryer within Device Master (which can support up to eight devices, numbered 0 through 7). For devices 0 through 7, the boards are numbered 6, 7, 8, 9, A, B, C, and D respectively. Hence, device 4 uses Device Master board A (e.g., ioA/6).

Table 3: Non-Numeric Signals and Enabling Order—Device Master Allied Dryer Interface

Signal Direction	Common Connection*			Dedicated Connection			Display / code	Board / code ***	Function Name / Signal Name
	Multi-terminal	Pin	Wire	Multi-terminal	Pin	Wire			
Input	2G	2G	2G	TBK	B	AAB	**	io_/1	load desired / dryer desires a load
Output*	TBK	W	AAW	TBK	Y	AAZ	**	io_/0	loading mode / dryer allowed to load
Input	2G	2G	2G	TBK	C	AAC	**	io_/2	load allowed / load door open
Output*	TBK	X	AAX	TBK	Z	AAZ	**	io_/1	transfer complete / dryer loaded****
Input	2G	2G	2G	TBK	D	AAD	**	io_/3	transfer complete / load door closed****
Output*	TBK	N	AAN	TBK	P	AAP	**	io_/7	single cake / partial load****
Input	2G	2G	2G	TBK	E	AAE	**	io_/4	discharge desired / dryer desires discharge
Output*	TBK	H	AAH	TBK	J	AAJ	**	io_/2	discharge allowed / dryer allowed to discharge
Input	2G	2G	2G	TBK	F	AAF	**	io_/5	transfer not complete / discharge door open
Input	2G	2G	2G	TBK	G	AAG	**	io_/6	transfer complete / discharge door closed
<p>* For outputs from Milnor, Milnor does not normally assign either pin of the potential-free contact as the common. Hence, both pins have unique pin and wire numbers.</p> <p>** The PC Device Master software provides an intuitive "Device Inputs and Outputs" window for viewing input/output status. See manual MTYCDR01, "Technical Reference—Using the Device Master Controller"</p> <p>*** The underscore in the third character position of the board/code (e.g., io_/6) represents the board number and depends on the device number of the dryer within Device Master (which can support up to eight devices, numbered 0 through 7). For devices 0 through 7, the boards are numbered 6, 7, 8, 9, A, B, C, and D respectively. Hence, device 4 uses Device Master board A (e.g., ioA/6).</p> <p>**** The batch data outputs are set when Device Master receives the "load door open" input. The "dryer loaded" output may be used by the allied dryer as a data valid signal to indicate that batch data may now be read. When Device Master receives the "load door closed" input, it "turns off" the batch data signals.</p>									

— End of BICALC16 —





DEVICE NUMBER	BOARD ADDRESS	
	SW2	SW1
0	0	6
1	0	7
2	0	8
3	0	9
4	0	A
5	0	B
6	0	C
7	0	D
8	8	6
9	8	7
10	8	8
11	8	9
12	8	A
13	8	B
14	8	C
15	8	D

INPUT NUMBER	INPUT NAME	INPUT FUNCTION
0	401	GOODS CODE BIT 0
1	402	GOODS CODE BIT 1
2	403	GOODS CODE BIT 2
3	404	GOODS CODE BIT 3
4	405	GOODS CODE BIT 4
5	406	GOODS CODE BIT 5
6	407	GOODS CODE BIT 6
7	408	GOODS CODE BIT 7
8	411	CUSTOMER CODE BIT 0
9	412	CUSTOMER CODE BIT 1
10	413	CUSTOMER CODE BIT 2
11	414	CUSTOMER CODE BIT 3
12	415	CUSTOMER CODE BIT 4
13	416	CUSTOMER CODE BIT 5
14	417	CUSTOMER CODE BIT 6
15	418	CUSTOMER CODE BIT 7

OUTPUT NUMBER	OUTPUT NAME	OUTPUT FUNCTION
0	CRA	---
1	CRB	WANT TO LOAD
2	CRC	READY TO LOAD
3	CRD	FINISHED LOADING
4	CRE	---
5	CRF	WANT TO DISCHARGE
6	CRG	READY TO DISCHARGE
7	CRH	FINISHED DISCHARGING

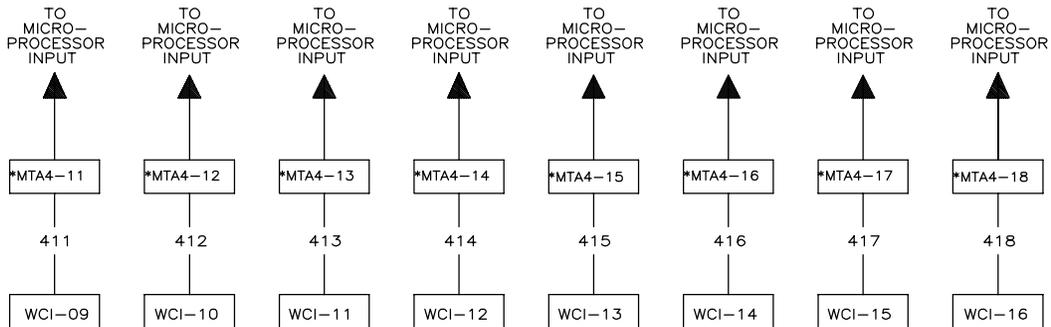
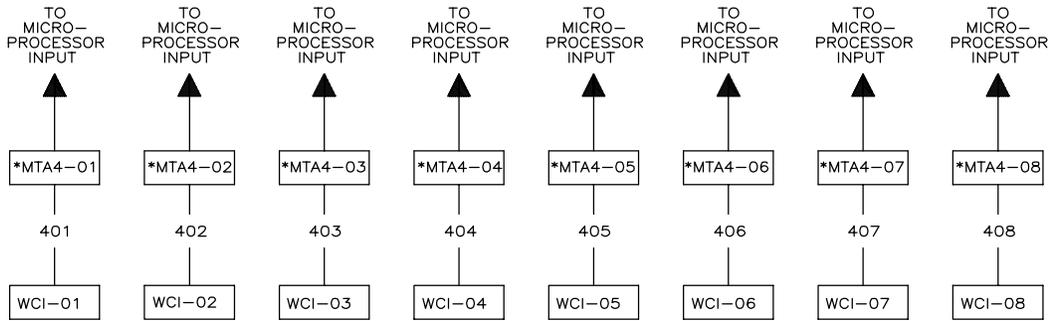
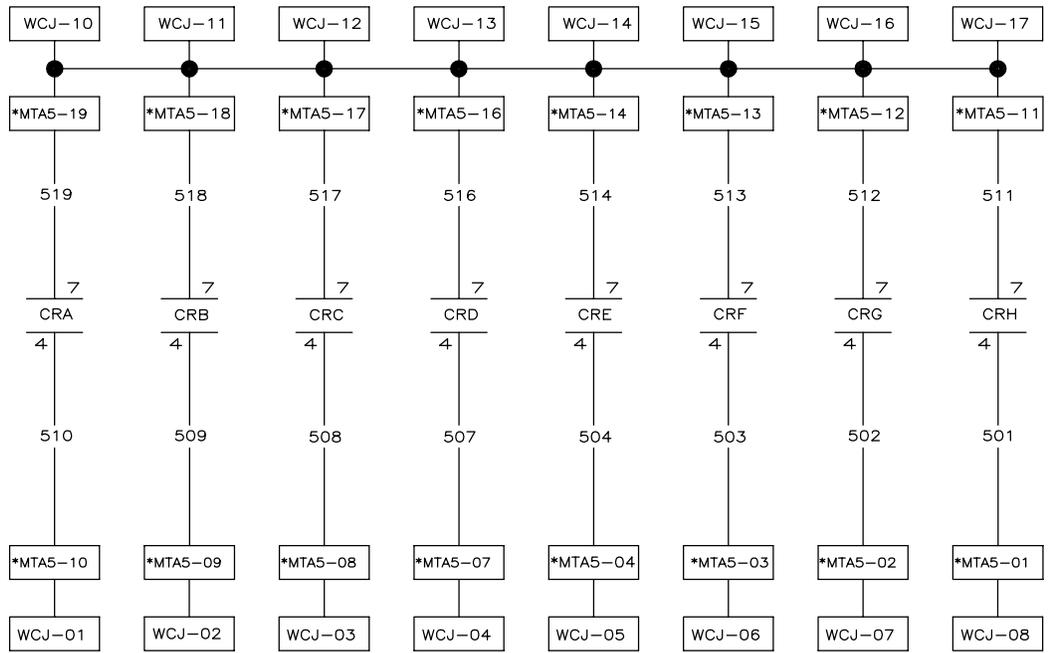
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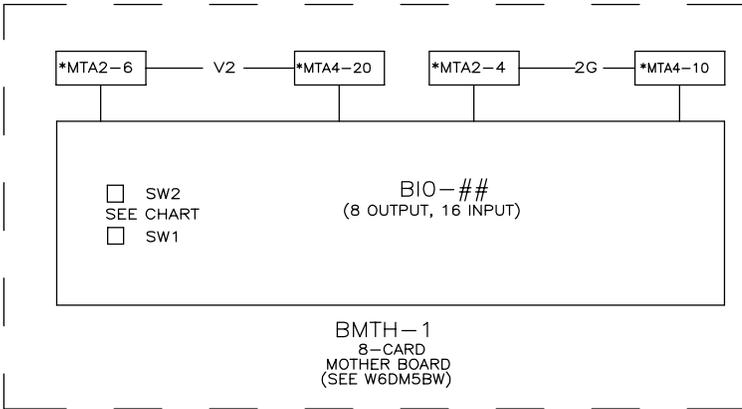
1. THE BOARD WIRING SHOWN IS TYPICAL. REFER TO THE DIP SWITCH SETTINGS CHART FOR THE CORRECT DIP SWITCH SETTINGS FOR EACH DEVICE.
2. THE ASTERISK (*) IN THE MTA DESIGNATION REPRESENTS THE BOARD ADDRESS AS GIVEN IN THE DIP SWITCH SETTING CHART.
3. REFER TO THE OUTPUT TABLE FOR A FUNCTIONAL DESCRIPTION OF THE OUTPUTS FOR EACH BOARD ADDRESS.
4. REFER TO THE INPUT TABLE FOR A FUNCTIONAL DESCRIPTION OF THE INPUTS FOR EACH BOARD ADDRESS.

W6DM5A11
 MICRO 6 SYSTEMS
 DEVICE MASTER
 SCHEMATIC: ALLIED INTERFACE FOR LINEAR COSTA
 (8 OUTPUT - 16 INPUT)

PELLERIN MILNOR CORPORATION

W6DM5A11
2007155B





DEVICE NUMBER	BOARD ADDRESS	
	SW2	SW1
0	4	0
1	4	1
2	4	2
3	4	3
4	4	4
5	4	5
6	4	6
7	4	7
8	C	0
9	C	1
10	C	2
11	C	3
12	C	4
13	C	5
14	C	6
15	C	7

INPUT NUMBER	INPUT NAME	INPUT FUNCTION
0	401	DRY CODE BIT 0
1	402	DRY CODE BIT 1
2	403	DRY CODE BIT 2
3	404	DRY CODE BIT 3
4	405	DESTINATION BIT 0
5	406	DESTINATION BIT 1
6	407	DESTINATION BIT 2
7	408	DESTINATION BIT 3
8	411	GET READY TO LOAD
9	412	START LOADING
10	413	GET READY TO DISCHARGE
11	414	START DISCHARGING
12	415	SINGLE CAKE
13	416	---
14	417	---
15	418	ALLIED TRAFER CANCELLED

OUTPUT NUMBER	OUTPUT NAME	OUTPUT FUNCTION
0	CRA	DRY CODE BIT 0
1	CRB	DRY CODE BIT 1
2	CRC	DRY CODE BIT 2
3	CRD	DRY CODE BIT 3
4	CRE	DESTINATION BIT 0
5	CRF	DESTINATION BIT 1
6	CRG	DESTINATION BIT 2
7	CRH	DESTINATION BIT 3

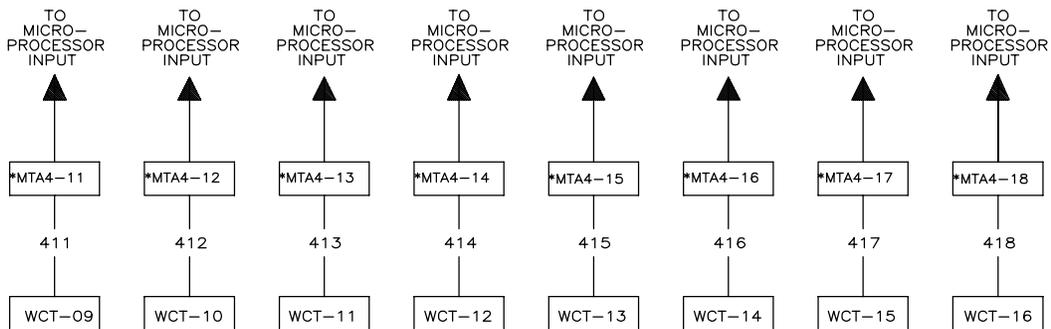
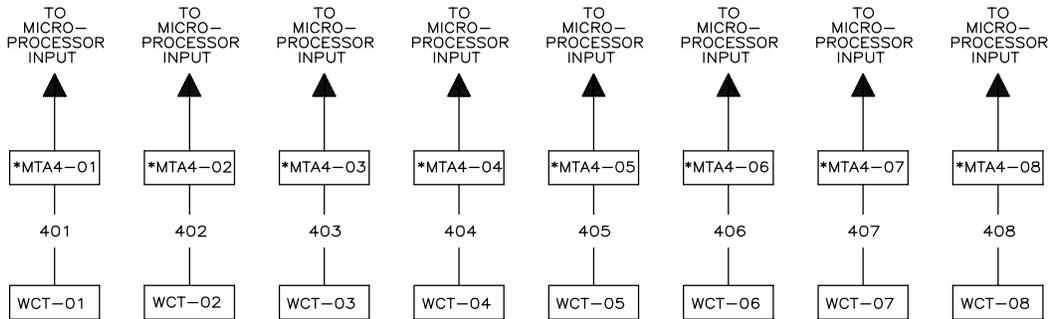
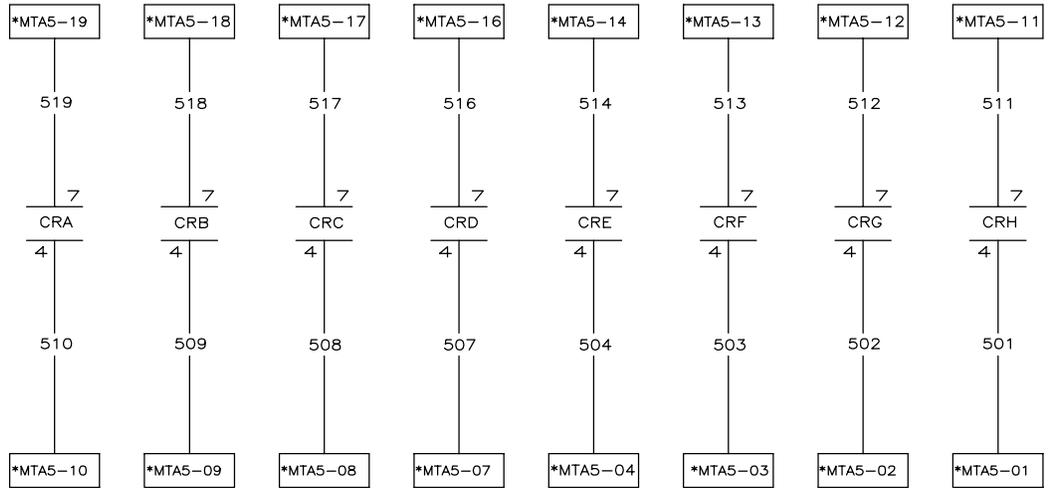
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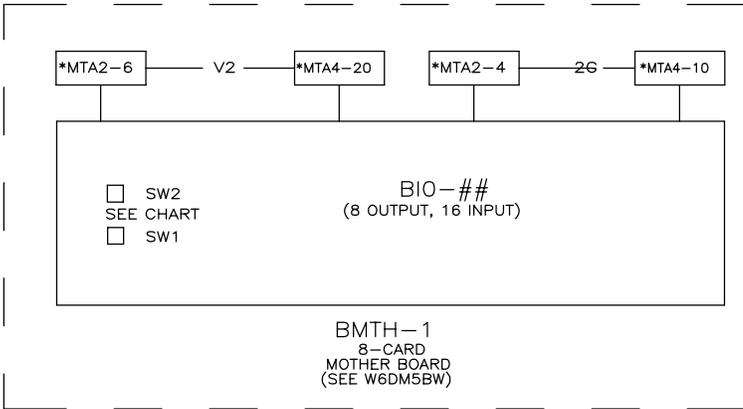
1. THE BOARD WIRING SHOWN IS TYPICAL. REFER TO THE DIP SWITCH SETTINGS CHART FOR THE CORRECT DIP SWITCH SETTINGS FOR EACH DEVICE.
2. THE ASTERISK (*) IN THE MTA DESIGNATION REPRESENTS THE BOARD ADDRESS AS GIVEN IN THE DIP SWITCH SETTING CHART.
3. REFER TO THE OUTPUT TABLE FOR A FUNCTIONAL DESCRIPTION OF THE OUTPUTS FOR EACH BOARD ADDRESS.
4. REFER TO THE INPUT TABLE FOR A FUNCTIONAL DESCRIPTION OF THE INPUTS FOR EACH BOARD ADDRESS.

W6DM5A12
 MICRO 6 SYSTEMS
 DEVICE MASTER
 SCHEMATIC: ALLIED INTERFACE FOR LINEAR COSTA
 (8 OUTPUT - 16 INPUT)

PELLERIN MILNOR CORPORATION

W6DM5A12
2007155B





INPUT TABLE			
INPUT NUMBER	OUTPUT INPUT	INPUT FUNCTION	INPUT VALUE
0	401	ALLIED WEIGHT BIT 0	1
1	402	ALLIED WEIGHT BIT 1	2
2	403	ALLIED WEIGHT BIT 2	4
3	404	ALLIED WEIGHT BIT 3	8
4	405	ALLIED WEIGHT BIT 4	16
5	406	ALLIED WEIGHT BIT 5	32
6	407	ALLIED WEIGHT BIT 6	64
7	408	ALLIED WEIGHT BIT 7	128
8	411	NOT USED	---
9	412		---
10	413		---
11	414		---
12	415		---
13	416		---
14	417		---
15	418		---

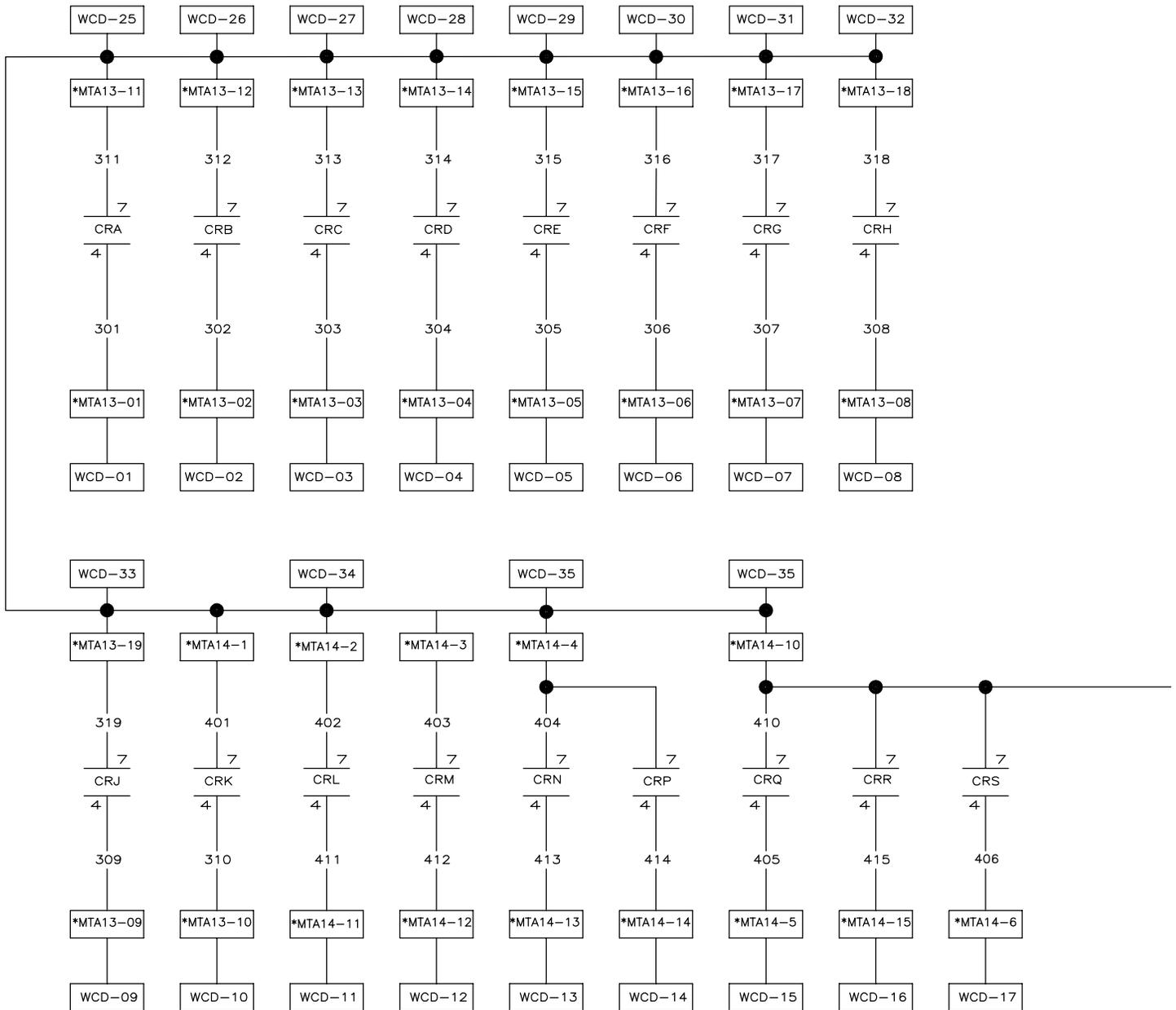
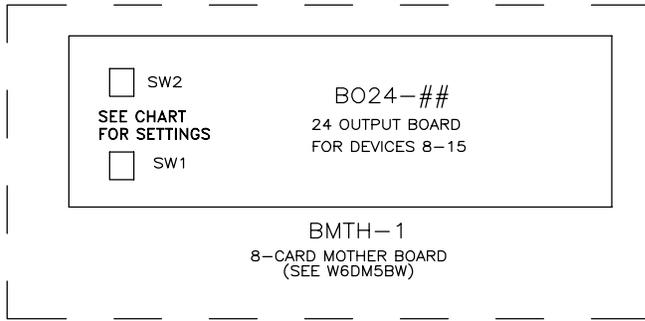
DIP SWITCH SETTING CHART		
DEVICE NUMBER	BOARD ADDRESS	
	SW2	SW1
0	4	8
1	4	9
2	4	A
3	4	B
4	4	C
5	4	D
6	4	E
7	4	F
8	C	8
9	C	9
10	C	A
11	C	B
12	C	C
13	C	D
14	C	E
15	C	F

NOTE:

1. THE BOARD WIRING SHOWN IS TYPICAL. REFER TO THE DIP SWITCH SETTINGS CHART FOR THE CORRECT DIP SWITCH SETTINGS FOR EACH DEVICE.
2. THE ASTERISK (*) IN THE MTA DESIGNATION REPRESENTS THE BOARD ADDRESS AS GIVEN IN THE DIP SWITCH SETTING CHART.
3. TOTAL WEIGHT EQUALS THE SUM OF THE VALUES OF EACH ACTIVE INPUT. REFER TO THE INPUT TABLE FOR THE SPECIFIC INPUT VALUES.
4. THE OUTPUTS FOR THESE BOARDS ADDRESSES ARE NOT CURRENTLY USED.

W6DM5DI
 MICRO 6 SYSTEMS
 DEVICE MASTER
 SCHEMATIC: ALLIED WEIGHT INPUTS
 (8 OUTPUT - 16 INPUT)

PELLERIN MILNOR CORPORATION



01 02 03 04 05 06 07 08 09 10

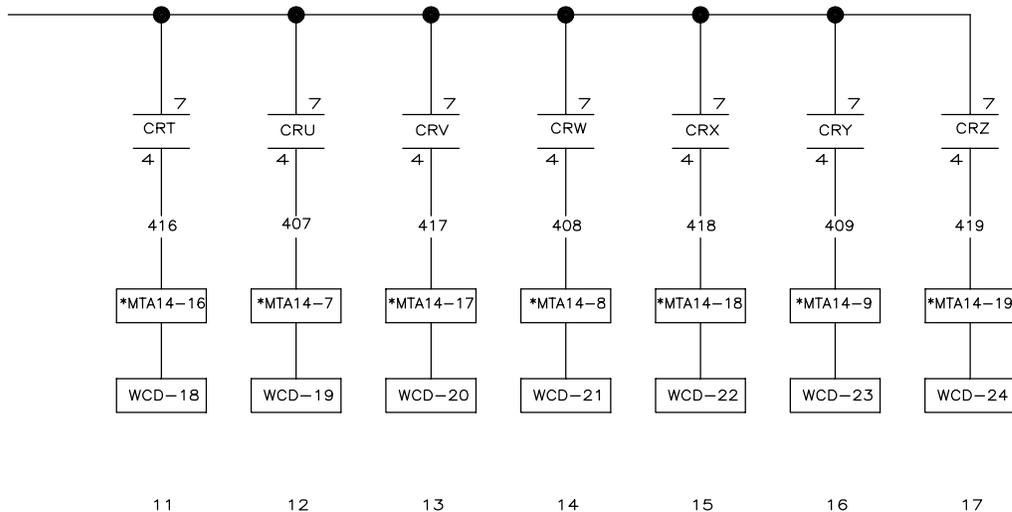
OUTPUT TABLE

OUTPUT NUMBER	OUTPUT NAME	OUTPUT FUNCTION
0	CRA	ALLIED DATA BIT 0
0	CRB	ALLIED DATA BIT 1
0	CRC	ALLIED DATA BIT 2
0	CRD	ALLIED DATA BIT 3
0	CRE	ALLIED DATA BIT 4
0	CRF	ALLIED DATA BIT 5
0	CRG	ALLIED DATA BIT 6
0	CRH	ALLIED DATA BIT 7
0	CRJ	ALLIED DATA BIT 8
0	CRK	ALLIED DATA BIT 9
0	CRL	ALLIED DATA BIT 10
0	CRM	ALLIED DATA BIT 11
0	CRN	ALLIED DATA BIT 12
0	CRP	ALLIED DATA BIT 13
0	CRQ	ALLIED DATA BIT 14
0	CRR	ALLIED DATA BIT 15
0	CRS	ALLIED DATA BIT 16
0	CRT	ALLIED DATA BIT 17
0	CRU	ALLIED DATA BIT 18
0	CRV	ALLIED DATA BIT 19
0	CRW	ALLIED DATA BIT 20
0	CRX	ALLIED DATA BIT 21
0	CRY	ALLIED DATA BIT 22
0	CRZ	ALLIED DATA BIT 23

DIP SWITCH SETTINGS

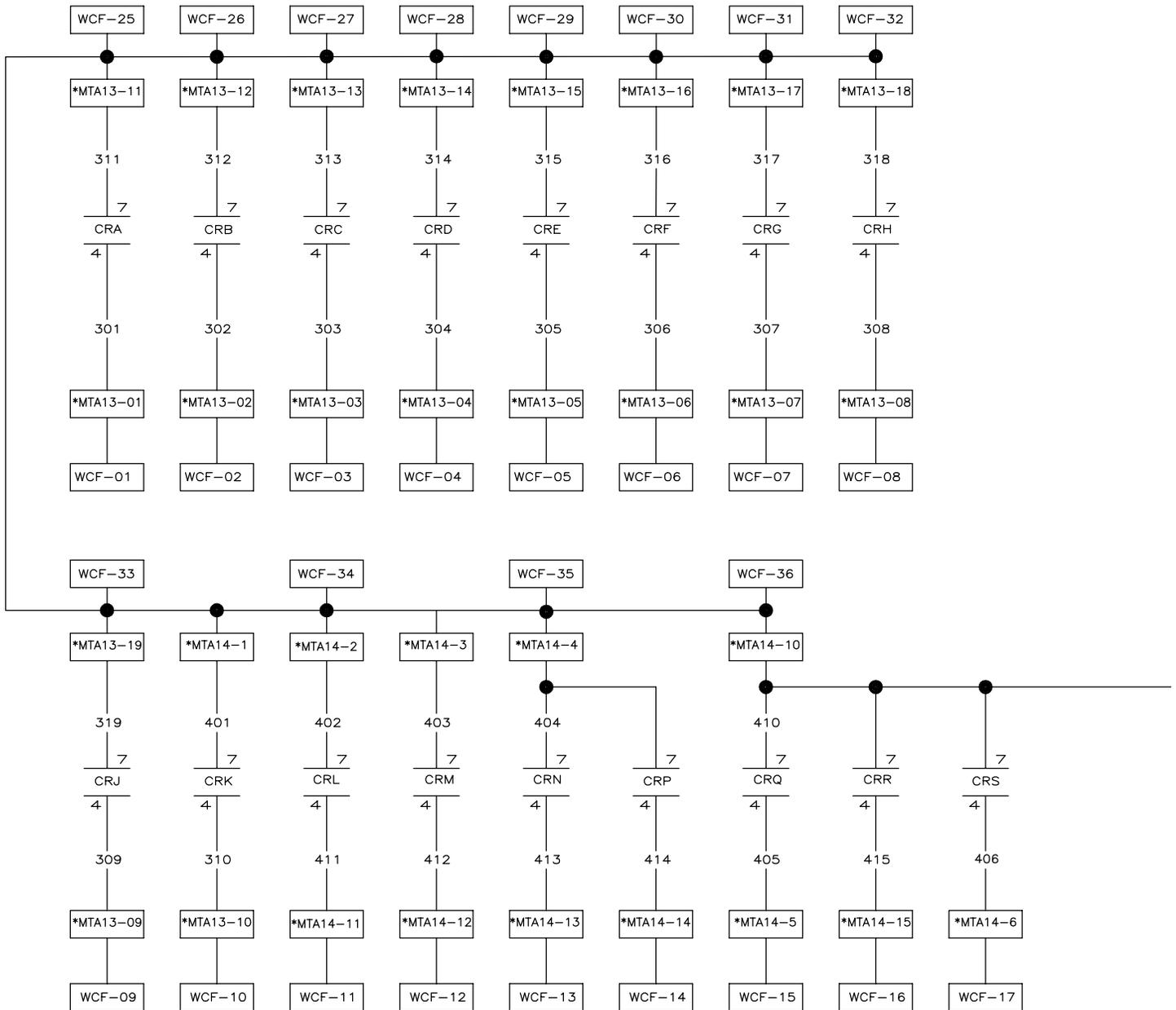
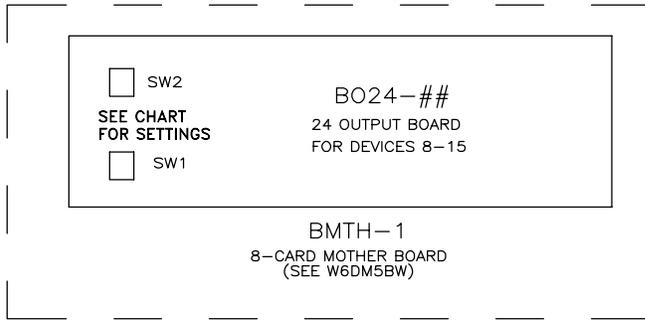
DEVICE NUMBER	BOARD ADDRESS	
	SW2	SW1
0	1	2
1	1	3
2	1	4
3	1	5
4	1	6
5	1	7
6	1	8
7	1	9
8	9	2
9	9	3
10	9	4
11	9	5
12	9	6
13	9	7
14	9	8
15	9	9

W6DM5DP
 MICRO 6 SYSTEMS
 SCHEMATIC: DEVICE MASTER DRY CONTACTS
 DATA PASS (24 OUTPUT)
 PELLERIN MILNOR CORPORATION



NOTE:

1. THE BOARD WIRING SHOWN IS TYPICAL. REFER TO THE DIP SWITCH SETTING CHART FOR CORRECT DIP SWITCH SETTING FOR EACH DEVICE
2. THE ASTERISK (*) IN THE MTA DESIGNATION REPRESENTS THE BOARD ADDRESS AS GIVEN ON THE OUTPUT TABLE
3. ALLIED DATA PASS OUTPUTS ARE CONFIGURABLE, FROM MOST TO LEAST SIGNIFICANT. IN ORDER OF FORMULA, DRY CODE, DESTINATION, CUSTOMER, GOODS CODE, AND CAKE NUMBER. UP TO 16 OUTPUTS MAY BE ASSIGNED TO ANY ONE PARAMETER. ALL DATA IS OUTPUT IN STANDARD BINARY FORMAT.



01 02 03 04 05 06 07 08 09 10

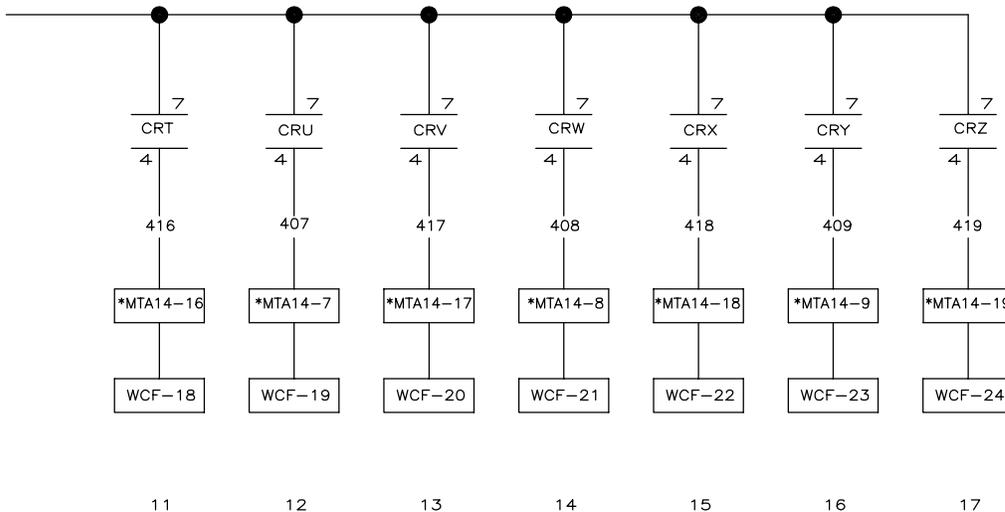
OUTPUT TABLE

OUTPUT NUMBER	OUTPUT NAME	OUTPUT FUNCTION	OUTPUT VALUE
0	CRA	ALLIED WEIGHT BIT 0	1
0	CRB	ALLIED WEIGHT BIT 1	2
0	CRC	ALLIED WEIGHT BIT 2	4
0	CRD	ALLIED WEIGHT BIT 3	8
0	CRE	ALLIED WEIGHT BIT 4	16
0	CRF	ALLIED WEIGHT BIT 5	32
0	CRG	ALLIED WEIGHT BIT 6	64
0	CRH	ALLIED WEIGHT BIT 7	128
0	CRJ	ALLIED WEIGHT BIT 8	256
0	CRK	ALLIED WEIGHT BIT 9	512
0	CRL	ALLIED WEIGHT BIT 10	1024
0	CRM	ALLIED WEIGHT BIT 11	2048
0	CRN	NOT USED	---
0	CRP		---
0	CRQ		---
0	CRR		---
0	CRS		---
0	CRT		---
0	CRU		---
0	CRV		---
0	CRW		---
0	CRX		---
0	CRY		---
0	CRZ		---

DIP SWITCH SETTINGS

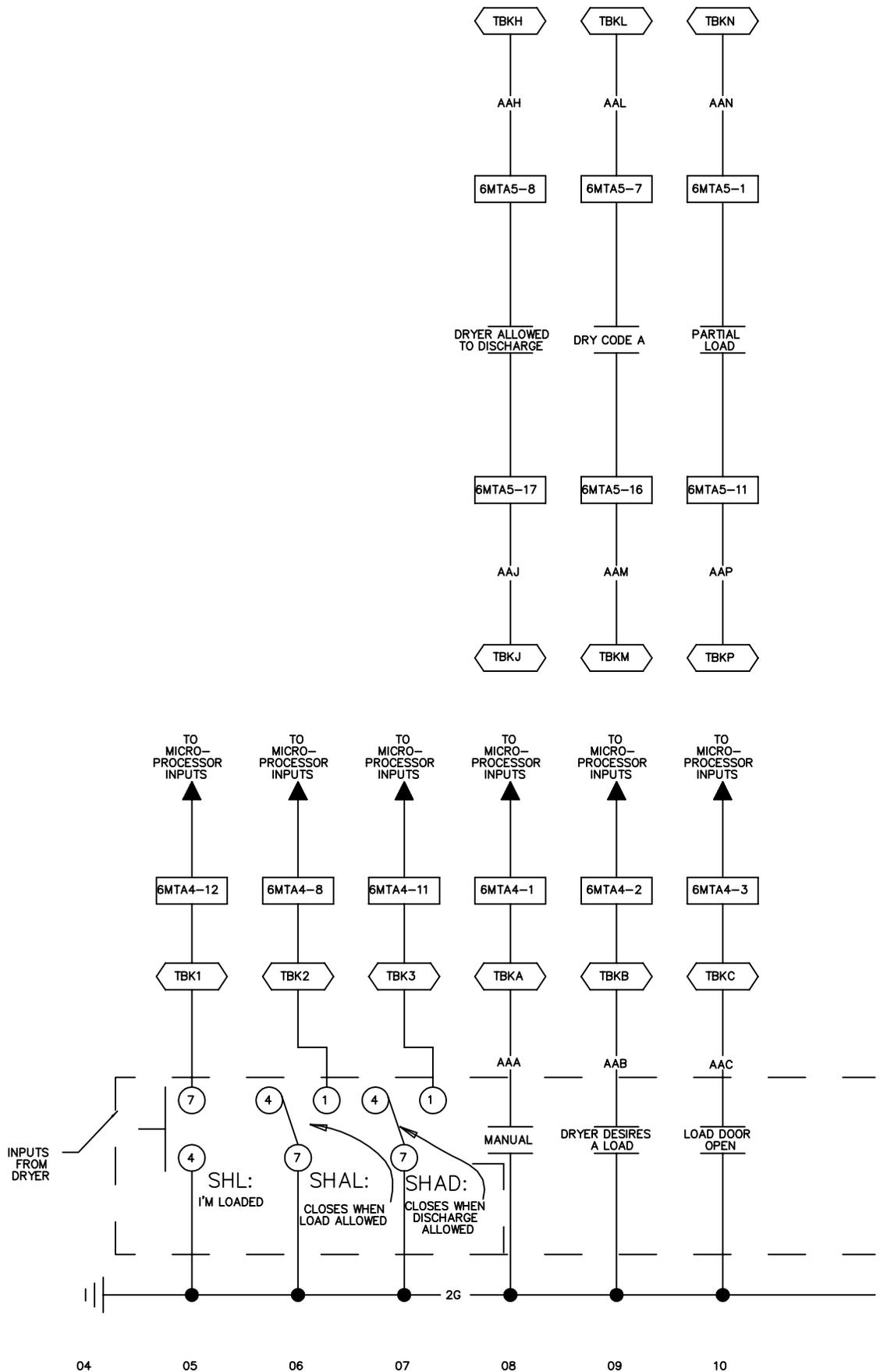
DEVICE NUMBER	BOARD ADDRESS	
	SW2	SW1
0	5	2
1	5	3
2	5	4
3	5	5
4	5	6
5	5	7
6	5	8
7	5	9
8	D	2
9	D	3
10	D	4
11	D	5
12	D	6
13	D	7
14	D	8
15	D	9

W6DM5DW
 MICRO 6 SYSTEMS
 SCHEMATIC: DEVICE MASTER DRY CONTACTS
 ALLIED WEIGHT OUTPUTS (24 OUTPUT)
 PELLERIN MILNOR CORPORATION



NOTE:

1. THE BOARD WIRING SHOWN IS TYPICAL. REFER TO THE DIP SWITCH SETTING CHART FOR CORRECT DIP SWITCH SETTING FOR EACH DEVICE
2. THE ASTERISK (*) IN THE MTA DESIGNATION REPRESENTS THE BOARD ADDRESS AS GIVEN ON THE OUTPUT TABLE
3. TOTAL WEIGHT EQUALS THE SUM OF THE VALUES OF EACH ACTIVE OUTPUT. REFER TO THE OUTPUT TABLE FOR THE WHOLE NUMBER (ONES) FORMAT. FOR TENTH FORMAT, MULTIPLY EACH VALUE BY 0.1.



01

02

03

04

05

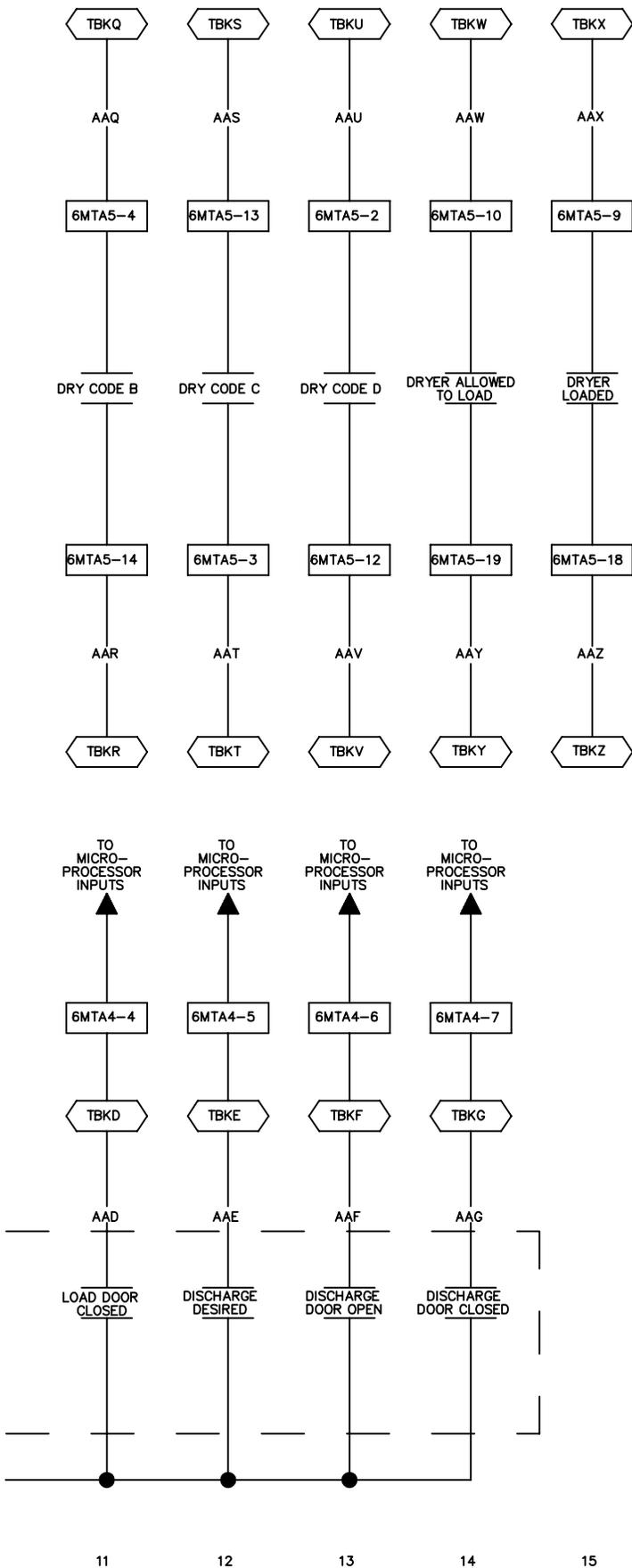
06

07

08

09

10



DIP SWITCH SETTING CHART

DEVICE NUMBER	BOARD ADDRESS	
	SW2	SW1
0	0	6
1	0	7
2	0	8
3	0	9
4	0	A
5	0	B
6	0	C
7	0	D
8	8	6
9	8	7
10	8	8
11	8	9
12	8	A
13	8	B
14	8	C
15	8	D

W6DM5I
SCHEMATIC: INPUTS FOR DRYER CONTROLLED BY
DEVICE MASTER
PELLERIN MILNOR CORPORATION