

Model ATC Controller

Channel 1
Input File "I"
Channel 2

Channel 1
Input File "J"
Channel 2

Power
Distribution
Assembly #2

Output File

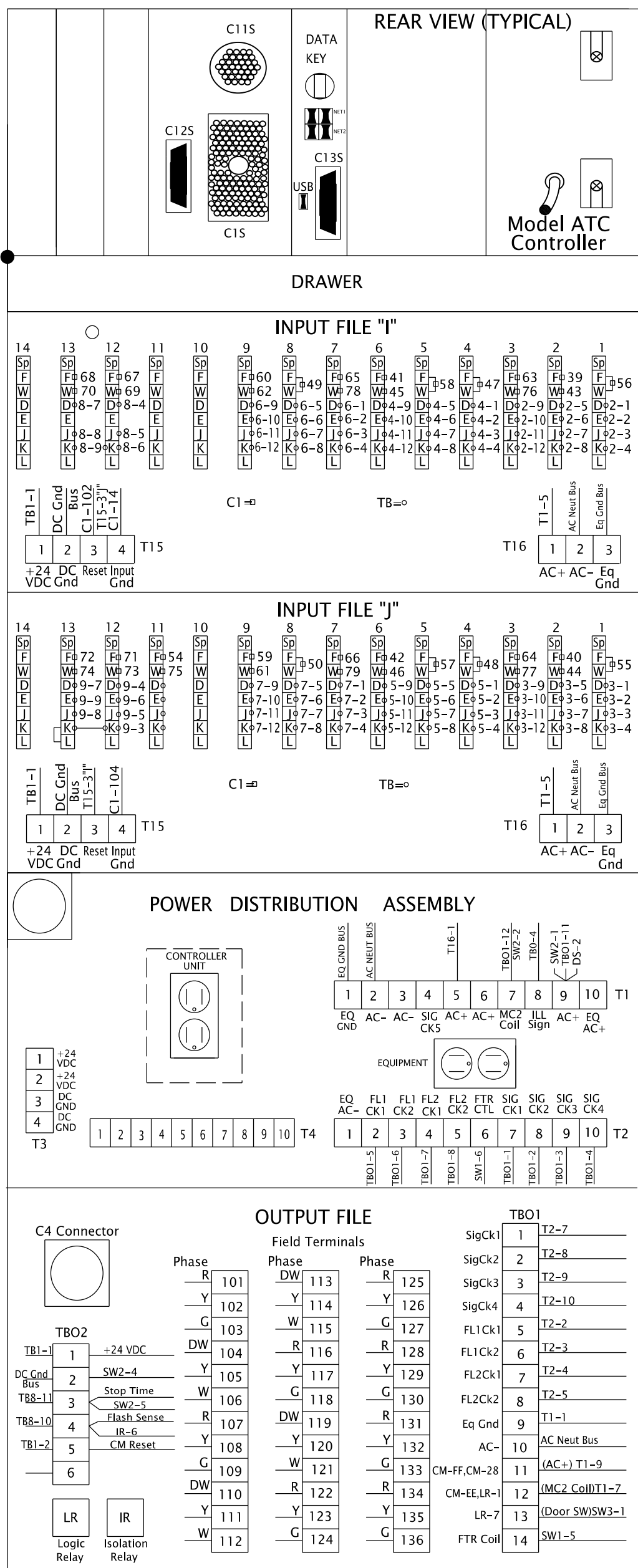
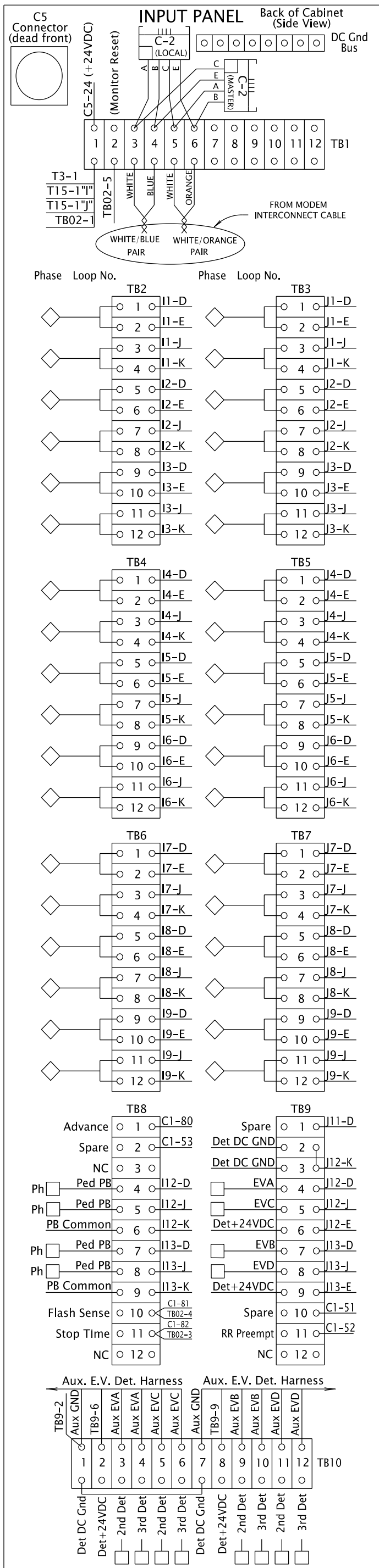
SHEET 1

REV. NO.	DATE	INITIAL	REMARKS
1	10/21	JS	UPDATED PRINT

INTERSECTION: Main Street @
Cross Street
Any Town

HWY#: XXX M.P.#: XXX.XX TSSU ID#: XXXXX

OREGON DEPARTMENT OF TRANSPORTATION
TRAFFIC - ROADWAY SECTION
332 CABINET WIRING DIAGRAM
REV 10/12/21



INTERSECTION: **Main Street @**
Cross Street
Any Town
 HWY#: XXX M.P.#: XXX.XX TSSU ID#: XXXXX

PROGRAM PIN ASSIGNMENTS

Program Assigned Functions	C1 Connector		C4 Connector				Field Term.
	Pin	Termination	Pin	Switch Pack			
				In	Position	Out	
DC Gnd	1	DC Gnd Bus	-	-	-	-	-
Ø4 D.WALK	2	C4-1	1	6	6-DW	3	104
Ø4 WALK	3	C4-2	2	10	6-W	7	106
Ø4 RED	4	C4-3	3	6	5-R	3	101
Ø4 YELLOW	5	C4-4	4	8	5-Y	5	102
Ø4 GREEN	6	C4-5	5	10	5-G	7	103
Ø3 RED	7	C4-6	6	6	4-R	3	116
Ø3 YELLOW	8	C4-7	7	8	4-Y	5	117
Ø3 GREEN	9	C4-8	8	10	4-G	7	118
Ø2 D.WALK	10	C4-9	9	6	3-DW	3	113
Ø2 WALK	11	C4-10	10	10	3-W	7	115
2 RED	12	C4-11	11	6	2-R	3	128
2 YELLOW	13	C4-12	12	8	2-Y	5	129
Input Gnd	14		-	-	-	-	-
Ø2 GREEN	15	C4-13	13	10	2-G	7	130
Ø1 RED	16	C4-14	14	6	1-R	3	125
Ø1 YELLOW	17	C4-15	15	8	1-Y	5	126
Ø1 GREEN	18	C4-16	16	10	1-G	7	127
Ø8 D.WALK	19	C4-17	17	6	12-DW	3	110
Ø8 WALK	20	C4-18	18	10	12-W	7	112
Ø8 RED	21	C4-19	19	6	11-R	3	107
Ø8 YELLOW	22	C4-20	20	8	11-Y	5	108
Ø8 GREEN	23	C4-21	21	10	11-G	7	109
Ø7 RED	24	C4-22	22	6	10-R	3	122
Ø7 YELLOW	25	C4-23	23	8	10-Y	5	123
Ø7 GREEN	26	C4-24	24	10	10-G	7	124
Ø6 D.WALK	27	C4-25	25	6	9-DW	3	119
Ø6 WALK	28	C4-26	26	10	9-W	7	121
Ø6 RED	29	C4-27	27	6	8-R	3	134
Ø6 YELLOW	30	C4-28	28	8	8-Y	5	135
Ø6 GREEN	31	C4-29	29	10	8-G	7	136
Ø5 RED	32	C4-30	30	6	7-R	3	131
Ø5 YELLOW	33	C4-31	31	8	7-Y	5	132
Ø5 GREEN	34	C4-32	32	10	7-G	7	133
(A) TOD/DOW	35	C4-33	33	8	3-Y	5	114
(B) TOD/DOW	36	C4-34	34	8	9-Y	5	120
(C)TOD/DOW	37	C4-35	35	8	6-Y	5	105
(D)TOD/DOW	38	C4-36	36	8	12-Y	5	111

Program Assigned Functions	C1 Connector		Input Files		
	Pin	Termination	Terminals		Field Terminals
			Out	In	
Ø2 DET,E&C	39	I2-1	F	D&E	TB2-5&6
Ø6 DET,E&C	40	J2-1	F	D&E	TB3-5&6
Ø4 DET,E&C	41	I6-1	F	D&E	TB4-9&10
Ø8 DET,E&C	42	J6-1	F	D&E	TB5-9&10
Ø2 DET,E&C	43	I2-2	W	J&K	TB2-7&8
Ø6 DET,E&C	44	J2-2	W	J&K	TB3-7&8
Ø4 DET,E&C	45	I6-2	W	J&K	TB4-11&12
Ø8 DET,E&C	46	J6-2	W	J&K	TB5-11&12
Ø2 DET, C	47	I4-1&2	F&W	DE&JK	TB4-1,2&3,4
Ø6DET, C	48	J4-1&2	F&W	DE&JK	TB5-1,2&3,4
Ø4 DET, C	49	I8-1&2	F&W	DE&JK	TB6-5,6&7,8
Ø8 DET, C	50	J8-1&2	F&W	DE&JK	TB7-5,6&7,8
PED INHIBIT	51	-	-	-	TB9-10
RR Preempt	52	-	-	-	TB9-11
ADV ENABLE	53	-	-	-	TB8-2
NOT ASSIGN	54	J11-1	F	D	TB9-1
Ø5 DET,E&C	55	J1-1&2	F&W	DE&JK	TB3-1,2&3,4
Ø1 DET,E&C	56	I1-1&2	F&W	DE&JK	TB2-1,2&3,4
Ø7 DET,E&C	57	J5-1&2	F&W	DE&JK	TB5-5,6&7,8
Ø3 DET,E&C	58	I5-1&2	F&W	DE&JK	TB4-5,6&7,8
Ø5 DET,E&C	59	J9-1	F	D&E	TB7-9&10
Ø1 DET,E&C	60	I9-1	F	D&E	TB6-9&10
Ø7 DET,E&C	61	J9-2	W	J&K	TB7-11&12
Ø3 DET,E&C	62	I9-2	W	J&K	TB6-11&12
Ø2 DET,E&C	63	I3-1	F	D&E	TB2-9&10
Ø6 DET,E&C	64	J3-1	F	D&E	TB3-9&10
Ø4 DET,E&C	65	I7-1	F	D&E	TB6-1&2
Ø8 DET,E&C	66	J7-1	F	D&E	TB7-1&2
Ph 2 Ped	67	I12-1	F	D	TB8-4
Ph 6 Ped	68	I13-1	F	D	TB8-7
Ph 4 Ped	69	I12-2	W	J	TB8-5
Ph 8 Ped	70	I13-2	W	J	TB8-8
EVA	71	J12-1	F	D	TB9-4
EVB	72	J13-1	F	D	TB9-7
EVC	73	J12-2	W	J	TB9-5
EVD	74	J13-2	W	J	TB9-8
NOT ASSIGN	75	J11-2	W	J	-
Ø2 DET, E	76	I3-2	W	J&K	TB2-11&12
Ø6 DET, E	77	J3-2	W	J&K	TB3-11&12
Ø4 DET, E	78	I7-2	W	J&K	TB6-3&4
Ø8 DET, E	79	J7-2	W	J&K	TB7-3&4
Advance	80	-	-	-	TB8-1
Flash Sense	81	-	-	-	TB8-10
Stop Time	82	-	-	-	TB8-11

Program Assigned Functions	C1 Connector		C5 Connector				Field Term.
	Pin	Termination	Pin	Switch Pack			
				In	Position	Out	
Ø3 D.WALK	83	C5-1	1	6	A6-DW	3	A104
Ø3 WALK	84	C5-2	2	10	A6-W	7	A106
OLD RED	85	C5-3	3	6	A5-R	3	A101
OLD YELLOW	86	C5-4	4	8	A5-Y	5	A102
OLD GREEN	87	C5-5	5	10	A5-G	7	A103
OLC RED	88	C5-6	6	6	A4-R	3	A114
OLC YELLOW	89	C5-7	7	8	A4-Y	5	A115
OLC GREEN	90	C5-8	8	10	A4-G	7	A116
Ø1 D.WALK	91	C5-9	9	6	A3-DW	3	A111
DC Gnd	92	DC Gnd Bus	-	-	-	-	-
Ø1 WALK	93	C5-10	10	10	A3-W	7	A113
OLB RED	94	C5-11	11	6	A2-R	3	A124
OLB YELLOW	95	C5-12	12	8	A2-Y	5	A125
OLB GREEN	96	C5-13	13	10	A2-G	7	A126
OLA RED	97	C5-14	14	6	A1-R	3	A121
OLA YELLOW	98	C5-15	15	8	A1-Y	5	A122
OLA GREEN	99	C5-16	16	10	A1-G	7	A123
NOT ASSIGN	100	C5-17	17	8	A6-Y	5	A105
NOT ASSIGN	101	C5-18	18	8	A3-Y	5	A112

FLASH OUT	102	T15-3"J"			
Watchdog	103	C4-37	Monitor-Pin 22		
Input Gnd	104	T15-4"J"			
			19	-	NC
			20	-	NC
			21	-	NC
			22	-	NC
			23	-	NC
			24	TB1-1	All
				9	+24VDC

CONFLICT MONITOR - TYPICAL CONNECTOR PIN ASSIGNMENTS

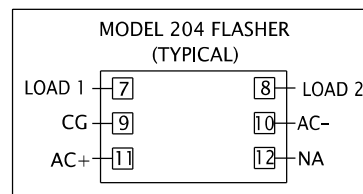
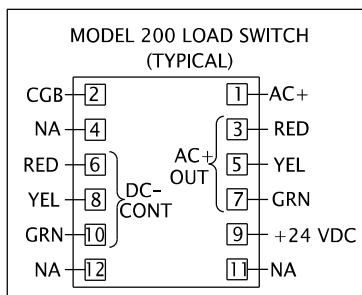
Term	Function	Pin	Pin	Function	Term
130	SP2-G	1	A	SP2-Y	129
115	SP3-W	2	B	SP8-G	136
135	SP8-Y	3	C	SP9-W	121
103	SP5-G	4	D	SP5-Y	102
106	SP6-W	5	E	SP11-G	109
108	SP-11Y	6	F	SP12-W	112
133	SP7-G	7	H	SP7-Y	132
114	SP3-Y	8	J	SP1-G	127
126	SP1-Y	9	K	SP9-Y	120
124	SP10-G	10	L	SP10-Y	123
105	SP6-Y	11	M	SP4-G	118
117	SP4-Y	12	N	SP12-Y	111
A123	ASPI-G	13	P	NC	-
-	NC	14	R	ASP2-G	A126
-	T&B	15	S	ASP4-G	A116
-	T&B	16	T	NC	-
-	NC	17	U	T&B	-
-	T&B	18	V	ASP5-G	A103
-	NC	19	W	NC	-
TB01-9	EQ Gnd	20	X	NC	-
TB01-10	AC-	21	Y	DC Gnd	TB02-2
C4-37	Watch Dog	22	Z	Ext. Reset	TB02-5
TB02-1	+24VDC	23	AA	T&B	-
LRCOLL	Interlock	24	BB	Stop Time	TB02-3
TB02-2	Interlock	25	CC	NC	-
-	NC	26	DD	NC	-
-	NC	27	EE	Clapper	TB01-12
TB01-11	Norm. Closed	28	FF	AC+	TB01-11

CHANNEL ASSIGNMENTS (TYPICAL)

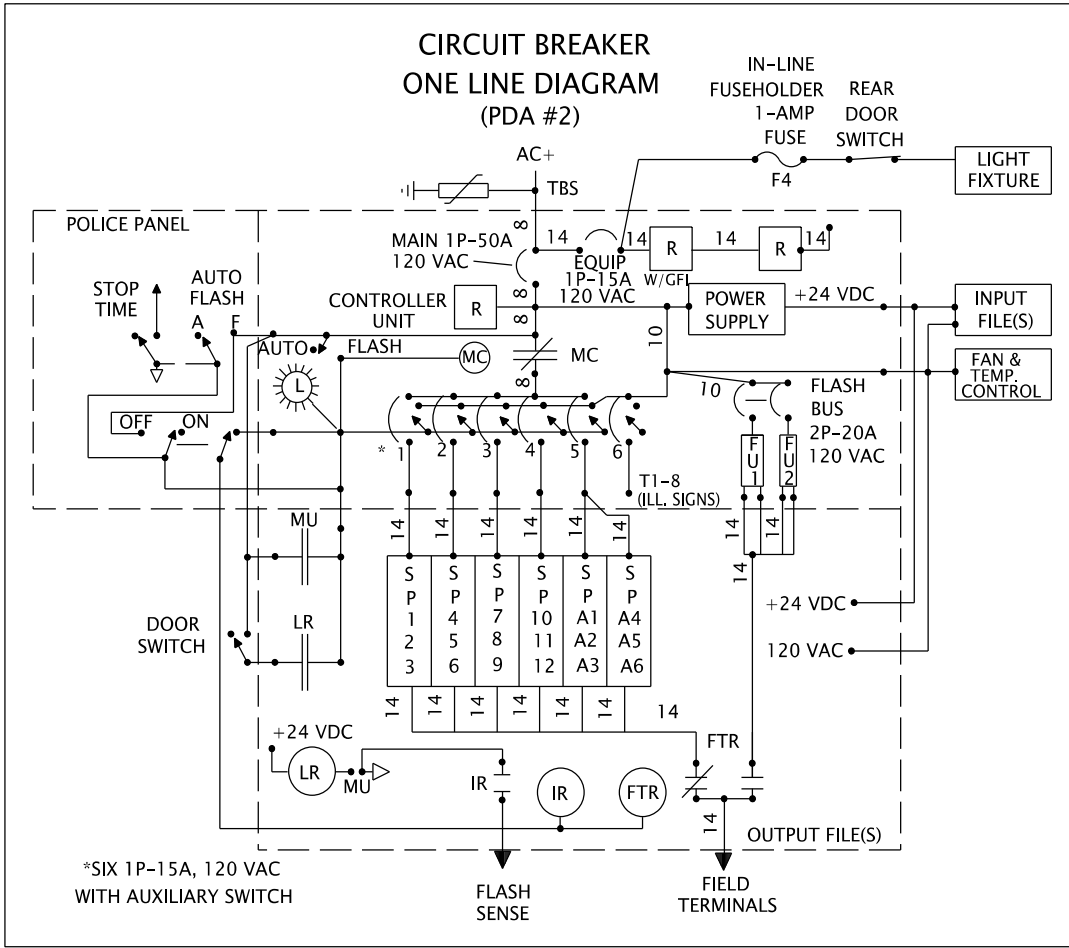
Ch	PH
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	OLA, Ø1FYA/YA
10	OLB, Ø3FYA/YA
11	OLC, Ø5FYA/YA
12	OLD, Ø7FYA/YA
13	2PED
14	4PED
15	6PED
16	8PED

T&B= Tied & Bundled

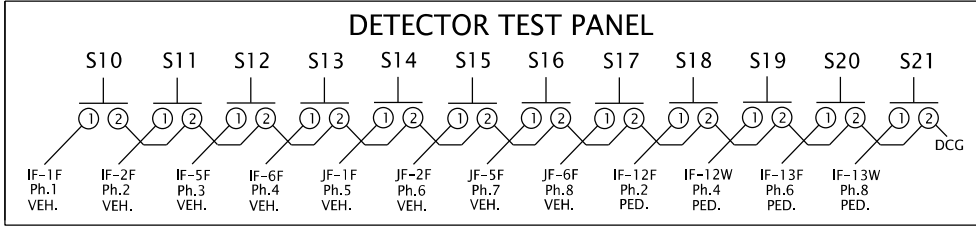
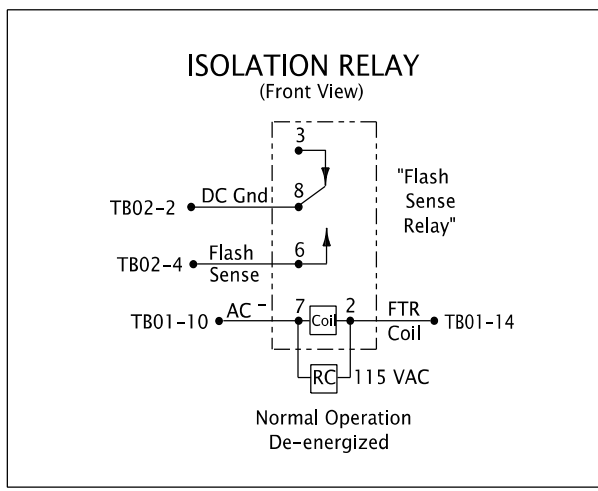
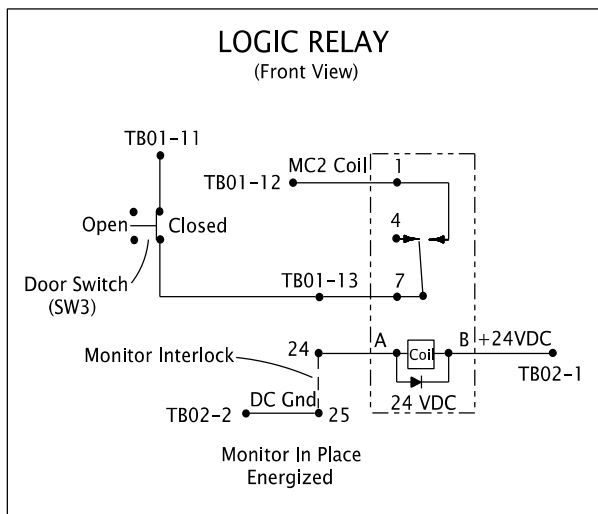
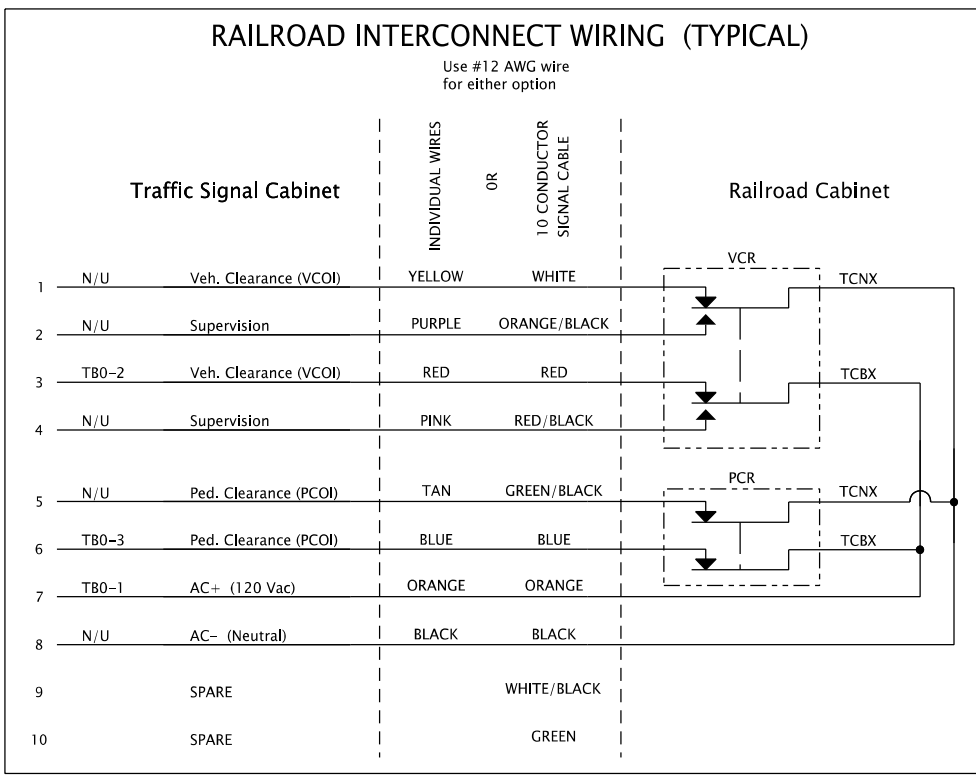
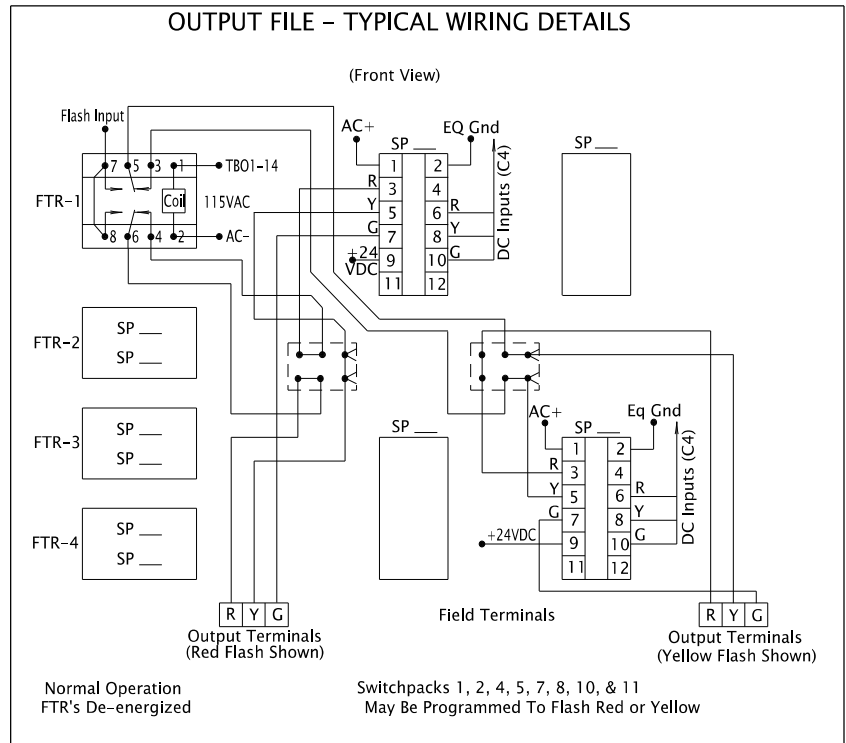
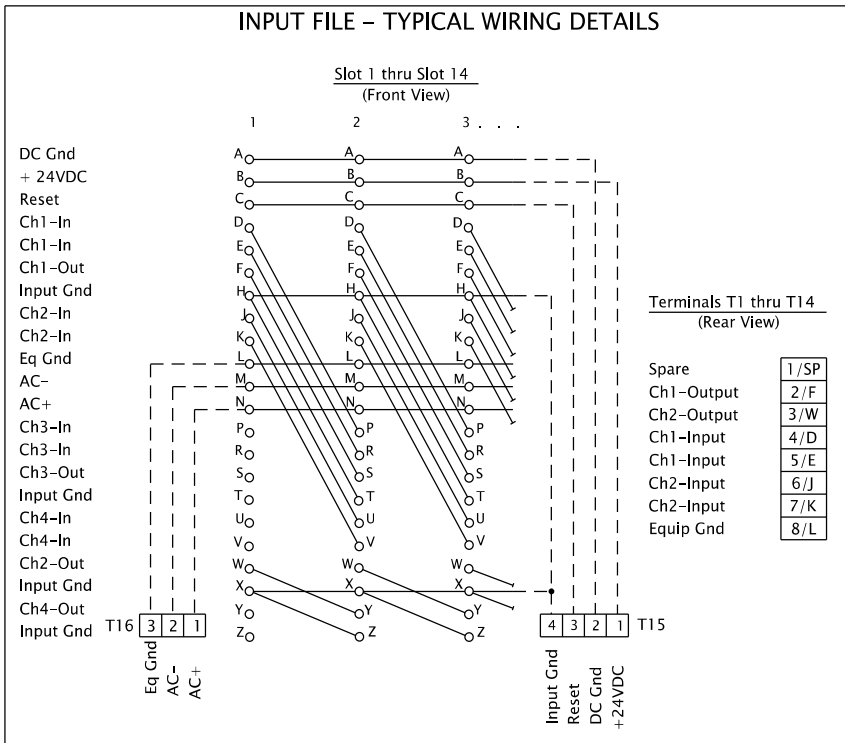
CONFLICT MONITOR



INTERSECTION: **Main Street @**
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 HWY#: XXX M.P.#: XXX.XX TSSU ID#: XXXXX



- SURGE PROTECTORS
- TBS TERMINAL BLOCK-SERVICE
- EQUIPMENT GROUND
- PDA POWER DISTRIBUTION ASSEMBLY
- WIRE SIZE, IF NOT INDICATED SHALL BE # 14 AWG
- CIRCUIT BREAKER
- DUPLEX RECEPTACLE
- W/GFI WITH GROUND FAULT INTERRUPTER
- RELAY CONTACT, NORMALLY CLOSED
- RELAY CONTACT, NORMALLY OPEN
- MC MERCURY CONTACTOR
- RELAY COIL-- RELAY NAME
- DC GROUND
- FLASHER UNIT ONE
- FR FLASH RELAY
- WDT WATCHDOG TIMER
- FTR FLASH TRANSFER RELAY
- PDA FLASH ON DISPLAY LAMP
- DR SW DOOR SWITCH, SHOWN WITH DOOR OPEN
- CB-1 SIGNAL CIRCUIT BREAKER 1 (SECONDARY)
- TR TRANSFER RELAY
- IR ISOLATION RELAY
- LR LOGIC RELAY
- IFI-14D INPUT FILE "I", TERM BLOCK "14", POSITION "D"



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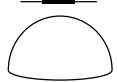
Place Intersection Diagram, phase and Fire rotations,
and any other applicable information on this sheet.

INTERSECTION: Main Street @
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Have Agency Signal Techs or Electricians Verify the Diode Card Information If You Are Not Sure.

REMOVE ALL INFORMATION ABOVE DIODE CARD WHEN PRINT IS COMPLETED

NOTE:

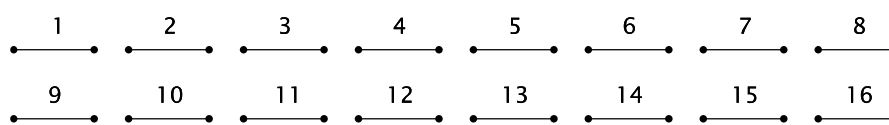
1. FILL IN CHANNEL ASSIGNMENTS WITH PHASING. Ch.1 Ph 1, Ph 5,OLA, Ped 2,NU
2. REMOVE YELLOW INHIBIT JUMPERS AS NEEDED. ————
3. REMOVE DIODES FOR ALLOWED PHASING. ———
4. PLACE SHAPE AROUND REMOVED DIODES. 

CONFLICT MONITOR DIODE CARD

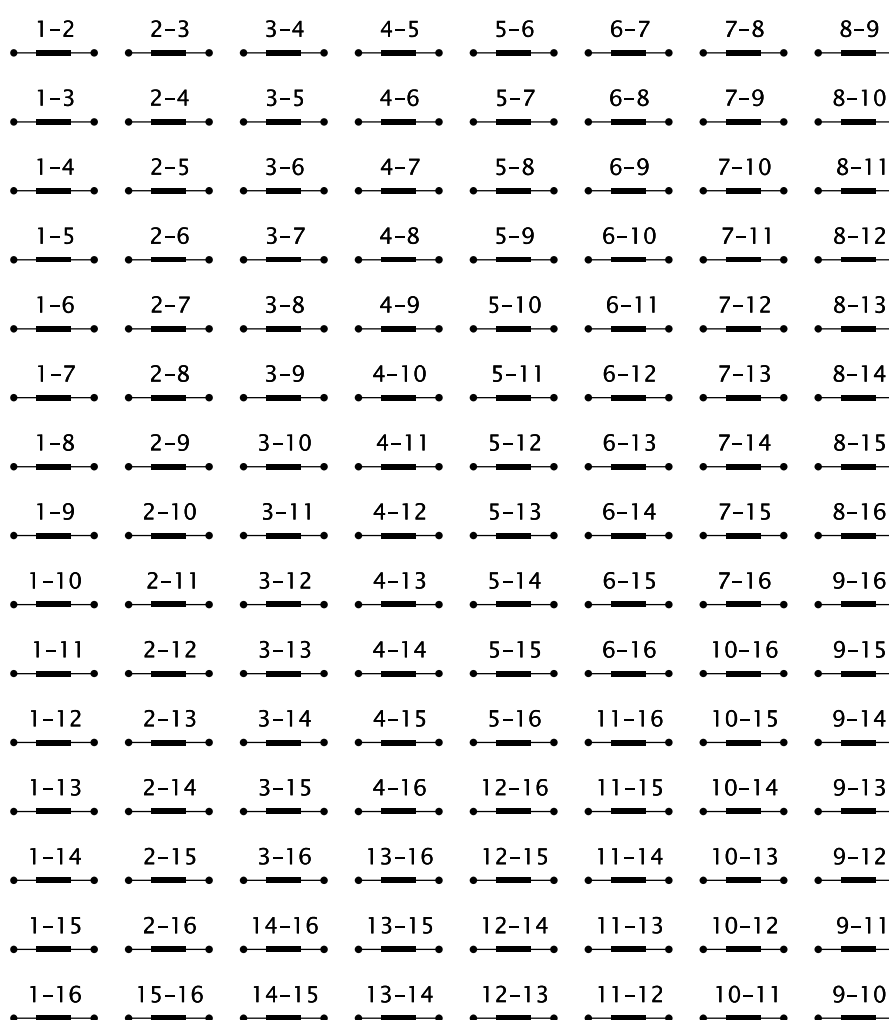
CHANNEL ASSIGNMENT

Ch.1 <u> </u> Ph 1 <u> </u>	Ch.5 <u> </u> Ph 5 <u> </u>	Ch.9 Ph 1 FYA/YA <u> </u>	Ch.13 <u> </u> Ped 2 <u> </u>
Ch.2 <u> </u> Ph 2 <u> </u>	Ch.6 <u> </u> Ph 6 <u> </u>	Ch.10 Ph 3 FYA/YA <u> </u>	Ch.14 <u> </u> Ped 4 <u> </u>
Ch.3 <u> </u> Ph 3 <u> </u>	Ch.7 <u> </u> Ph 7 <u> </u>	Ch.11 Ph 5 FYA/YA <u> </u>	Ch.15 <u> </u> Ped 6 <u> </u>
Ch.4 <u> </u> Ph 4 <u> </u>	Ch.8 <u> </u> Ph 8 <u> </u>	Ch.12 PH 7 FYA/YA <u> </u>	Ch.16 <u> </u> Ped8 <u> </u>

YELLOW INHIBIT JUMPERS



DIODES - Diode Removed Makes Movement Allowable (Diode IN4148)



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