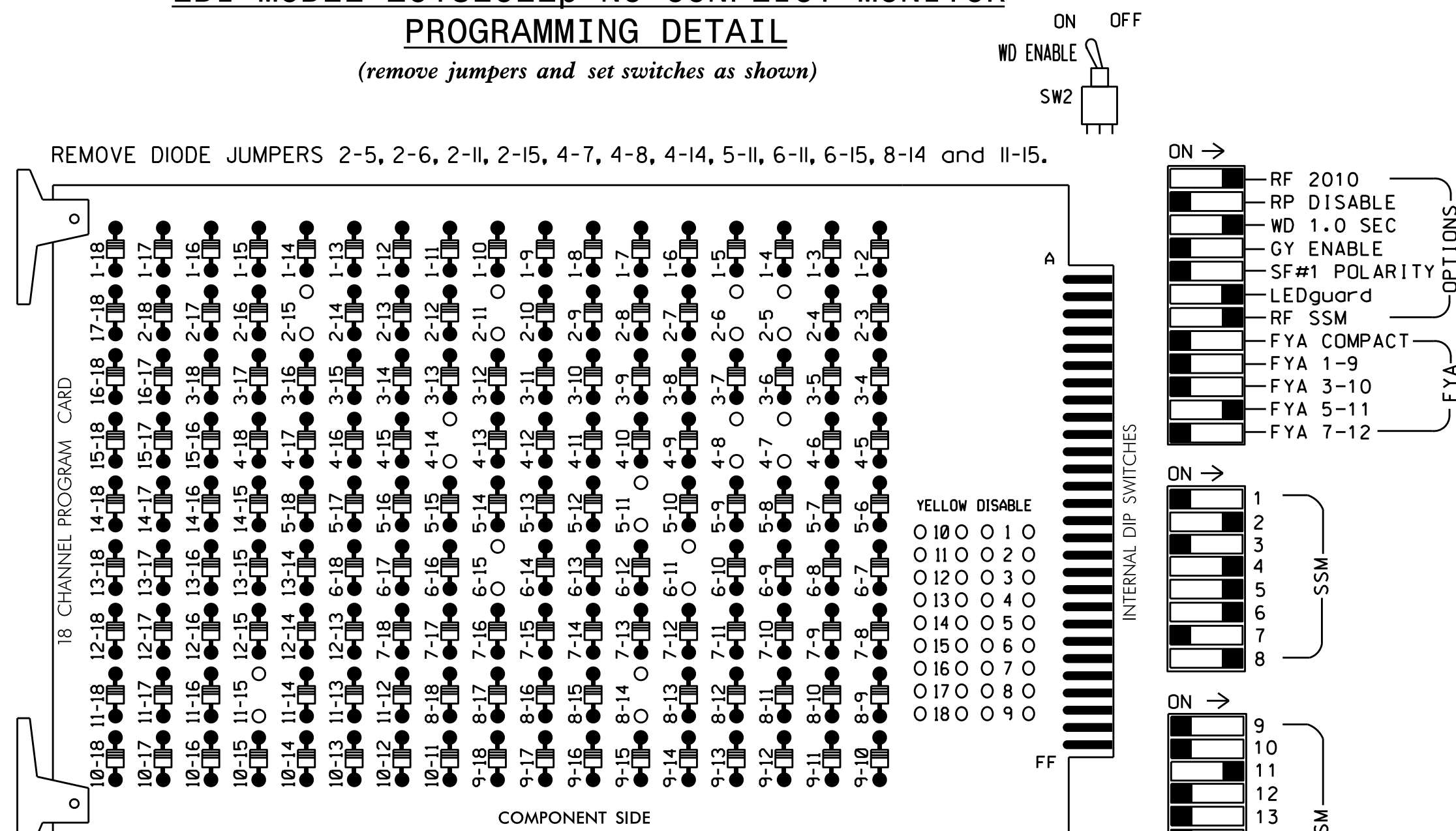


EDI MODEL 2018ECLIP-NC CONFLICT MONITOR
PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



REMOVE JUMPERS AS SHOWN

NOTES:

1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
2. Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
3. Ensure that Red Enable is active at all times during normal operation.
4. Integrate monitor with Ethernet network in cabinet.

NOTES

1. To prevent "flash-conflict" problems, insert red flash program blocks for all unused vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the Signal Plans.
2. Program phases 4 and 8 for Dual Entry.
3. Enable Simultaneous Gap-Out for all phases.
4. Program phases 2 and 6 for Start Up In Green.
5. Program phases 4 and 8 for 'STARTUP PED CALL'.
6. Program phases 2 and 6 for Yellow Flash.
7. The cabinet and controller are part of the Asheville Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070E
 CABINET.....332 /W AUX
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S2,S5,*S6,S7,S8,S9,S10,S11,
 AUX S4
 PHASES USED.....2,4,4 PED,5,6,6 PED,**7,8,*8 PED
 OVERLAP "A".....NOT USED
 OVERLAP "B".....NOT USED
 OVERLAP "C".....5+6
 OVERLAP "D".....NOT USED

*Denotes S6 is also used for Fire House Preempt Pilot Lamp control.
 **Phase 7 used only during preempt.
 *8 PED used for Advanced Walk timing purposes only.

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18
PHASE	1	2	2 PED	3	4	4	5	6	6 PED	7	8	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	NU	21,22	NU	NU	41,42	P41, P42	FIRE PILOT LAMP	42	51	61,62	P61, P62	41	81,82	NC	NU	NU	51	NU
RED		128			101			*		134			107					
YELLOW		129			102					135		*	108					
GREEN		130			103					136			109					
RED ARROW																		A114
YELLOW ARROW								132										A115
FLASHING YELLOW ARROW																		A116
GREEN ARROW							133	133		124								
PED YELLOW						104				119								
							*105											
										121								

NC = No Connection
 NU = Not Used
 NOTE: See sheet 4 for Firehouse Pilot Lamp wiring detail.
 * Denotes install load resistor. See load resistor installation detail this sheet.
 ★ See pictorial of head wiring in detail below.

INPUT FILE POSITION LAYOUT

(front view)

FILE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	S	∅ 2	∅ 3	∅ 4	∅ 5	∅ 6	∅ 7	∅ 8	∅ 9	∅ 10	∅ 11	∅ 12	∅ 13	∅ 14
L	2A	NOT USED	∅ 4	∅ 5	∅ 6	∅ 7	∅ 8	∅ 9	∅ 10	∅ 11	∅ 12	∅ 13	∅ 14	∅ 15
U	5A	5B	∅ 6	∅ 7	∅ 8	∅ 9	∅ 10	∅ 11	∅ 12	∅ 13	∅ 14	∅ 15	∅ 16	∅ 17
L	6A	6B	∅ 7	∅ 8	∅ 9	∅ 10	∅ 11	∅ 12	∅ 13	∅ 14	∅ 15	∅ 16	∅ 17	∅ 18

EX.: 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE
 ST = STOP TIME
 PRE = PREEMPT

⊗ Wired Input - Do not populate slot with detector card

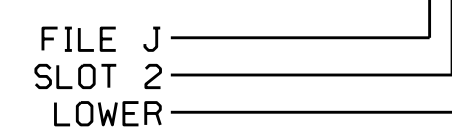
INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME	SWITCHING DETECTOR	SWITCH/DUPLICATE
2A	TB2-5,6	I2U	39	1	2	2	Y	Y					
4A	TB4-9,10	I6U	41	3	4	4	Y	Y			5		
5A ¹	TB3-1,2	J1U	55	17	5	5	Y	Y			15		
		I4U	47	9	22	2	Y	Y					
5B	TB3-5,6	J2U	40	2	★6	5	Y	Y			15	Y	4
6A	TB3-7,8	J2L	44	6	16	6	Y	Y					
8A	TB5-9,10	J6U	42	4	8	8	Y	Y			10		
8B	TB5-11,12	J6L	46	8	18	8	Y	Y			15		
PED PUSH BUTTONS													
P41,P42	TB8-5,6	I12L	69	31	PED 4	4/8 PED							
P61,P62	TB8-7,9	I13U	68	30	PED 6	6 PED							

NOTE:
 INSTALL DC ISOLATORS IN INPUT FILE SLOTS 112 AND 113.

- ¹Add jumper from J1-W to I4-W, on rear of input file.
 ★ Enable detector no. 6 as switching detector, and program this detector's 'switch/duplicate phase' as shown in the chart above. This will allow loop 5B to extend phase 4 during phase 4 green. Detector switching programming is accomplished in the detector assignments and settings menu: Main Menu selection 7 (detectors), then 1 (vehicle detector assignments).

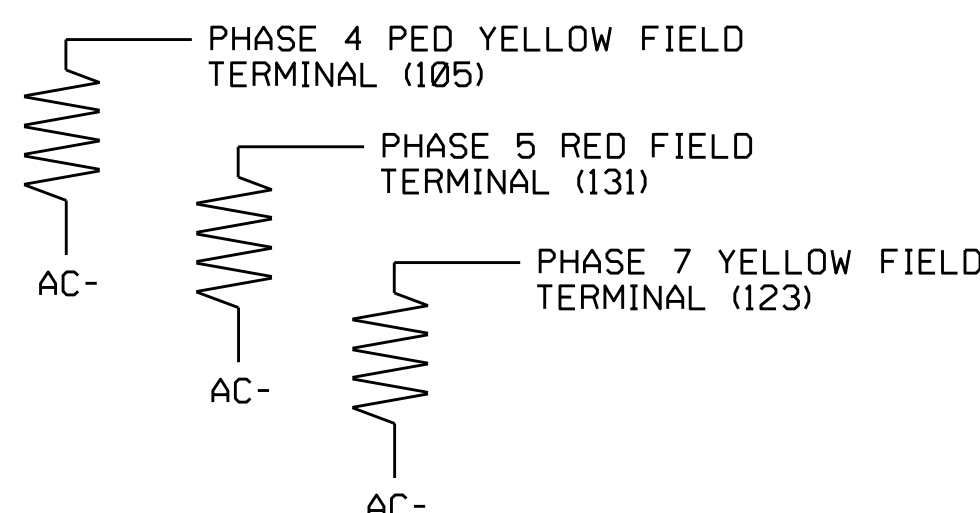
INPUT FILE POSITION LEGEND: J2L



LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown below)

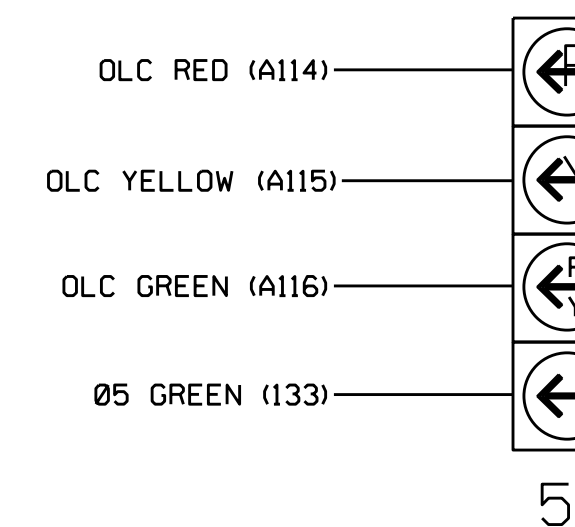
VALUE (ohms)	WATTAGE
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 13-1218
 DESIGNED: December 2016
 SEALED: 12/20/2016
 REVISED:

4 SECTION FYA PPLT SIGNAL WIRING DETAIL

(wire signal head as shown)



NOTE

1. The sequence display for this signal requires special logic programming. See sheet 2 for programming instructions.

COUNTDOWN PEDESTRIAN SIGNAL OPERATION

Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

PREEMPT ONLY PHASE OMIT NOTE

(program controller as shown below)

From Main Menu press '2' (Phase Control). Then '1' (Phase Control Functions). Program Phase 7 for 'Omit Phase' and Phases 2, 4, 5, 6 and 8 for 'Startup Calls'. This is to prevent Phase 7 from being served when not in Preempt.

Prepared In the Offices of:
 TRANSPORTATION MOBILITY AND SAFETY CONSULTANTS
 750 N. Greenfield Pkwy, Garner, NC 27529

Electrical and Programming Details For:
 NC 112 (Sand Hill Road) at Jacob Holm Way / Southeastern Container

Division 13 Buncombe County Enka
 PLAN DATE: December 2016 REVIEWED BY: T. Joyce
 PREPARED BY: C. Strickland REVIEWED BY:

REVISIONS: INIT. DATE

Sealed by: *Carlynn M. Little* 12/21/2016
 SEAL 030530
 JACOB M. LITTLE
 ENGINEER

SIG. INVENTORY NO. 13-1218