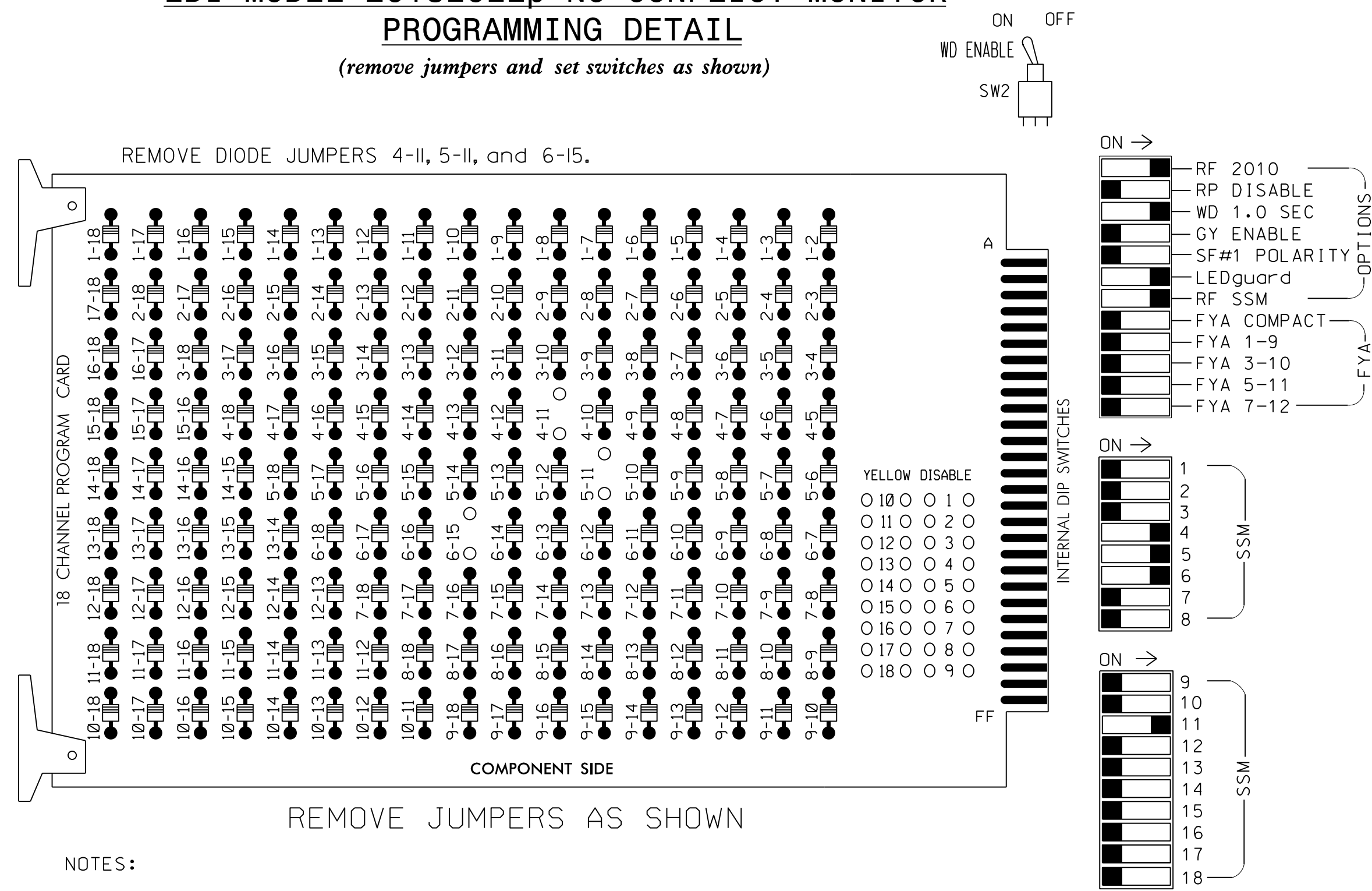


EDI MODEL 2018ECLip-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



NOTES:

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

NOTES

- 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.
- Program controller to start up in phase 6 WALK.
- The cabinet and controller are part of the Fayetteville Signal System.

SIGNAL HEAD HOOK-UP CHART

	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 PED	5	6	6 PED	7	8	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	NU	NU	NU	NU	41,42	NU	51,52	61,62,63	P61, P62	NU	NU	NU	NU	NU	NU	43,44	NU	NU
RED								134								A114		
YELLOW								135										
GREEN								136										
RED ARROW					101		131											
YELLOW ARROW					102		132									A115		
GREEN ARROW					103		133									A116		
													119					
													121					

NU = Not Used

EQUIPMENT INFORMATION

CONTROLLER.....2070
 CABINET.....332 W/AUX
 SOFTWARE.....ECONOLITE ASC/3-2070
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 W/ AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S5,S7,S8,S9,AUX S4
 PHASES USED.....4,5,6,6PED
 OVERLAP A.....NOT USED
 OVERLAP B.....NOT USED
 OVERLAP C.....4+5
 OVERLAP D.....NOT USED

**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.

INPUT FILE POSITION LAYOUT

(front view)

FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	S	S	S	S	∅ 4	∅ 4	S	S	S	S	S	S	∅ 6 PED	FS
L	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅
U	∅ 5	∅ 5	∅ 6	∅ 6	S	S	S	S	S	S	S	S	S	S
L	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅
U	5A	5C	6A	6C	S	S	S	S	S	S	S	S	S	S
L	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅	←-V-∅-∅

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

FS = FLASH SENSE
ST = STOP TIME

FLASHER CIRCUIT MODIFICATION DETAIL

IN ORDER TO INSURE THAT SIGNALS FLASH CONCURRENTLY ON THE SAME APPROACH, MAKE THE FOLLOWING FLASHER CIRCUIT CHANGES:

- ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-4 AND TERMINATE ON T2-2.
- ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-5 AND TERMINATE ON T2-3.
- REMOVE FLASHER UNIT 2.

THE CHANGES LISTED ABOVE TIES ALL PHASES AND OVERLAPS TO FLASHER UNIT 1.

**ECONOLITE ASC/3-2070 OVERLAP
PROGRAMMING DETAIL**

(program controller as shown)

- From Main Menu select **2. CONTROLLER**
- From CONTROLLER Submenu select **2. VEHICLE OVERLAPS**

OVERLAP C Toggle Twice

Select TMG VEH OVLP [C] and 'NORMAL'

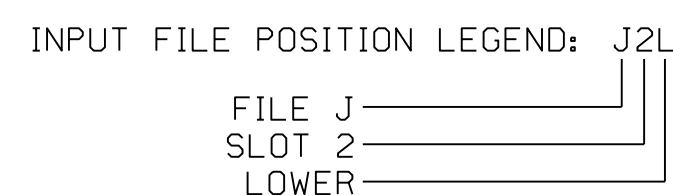
TMG VEH OVLP...[C] TYPE:**NORMAL**
 PHASES 1 2 3 4 5 6 7 8 9 0 1 2 3 4 5 6
 INCLUDED . . . X X
 LAG GRN 0.0 YEL 0.0 RED 0.0

END PROGRAMMING

INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND TIME	DELAY TIME	ADDED INITIAL	DETECTOR TYPE
4A	TB4-9,10	I6U	41	4	4	YES				S
4B	TB4-11,12	I6L	45	14	4	YES				S
5A	TB3-1,2	J1U	55	5	5	YES				S
5B	TB3-3,4	J1L	55	5	5	YES				S
5C	TB3-5,6	J2U	40	6	5	YES		15		S
5D	TB3-7,8	J2L	44	16	5	YES		15		S
6A	TB3-9,10	J3U	64	36	6	YES			X	N
6B	TB3-11,12	J3L	77	46	6	YES			X	N
6C	TB5-1,2	J4U	48	26	6	YES			X	N
PED PUSH BUTTONS										
P61,P62	TB8-7,9	I13U	68	PED 6	6 PED					

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



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 06-0096
 DESIGNED: March 2018
 SEALED: 03-29-2018
 REVISED: N/A

Final Design
Electrical Detail

US 401/US 401 Business (Raeford Road) at US 401 (Skibo Road)
 Division 6 Cumberland County Fayetteville
 PLAN DATE: March 2018 REVIEWED BY: L Overn
 PREPARED BY: G B Spell REVIEWED BY:

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 LAWRENCE E. OVERN
 3/29/2018
 SIG. INVENTORY NO. 06-0096

DATE: U:\Projects\Signal\Signal\electrical\Detail\EDI\inal_Signal\U-4405_Sig.ele_06-0096.dgn User: rfmancey