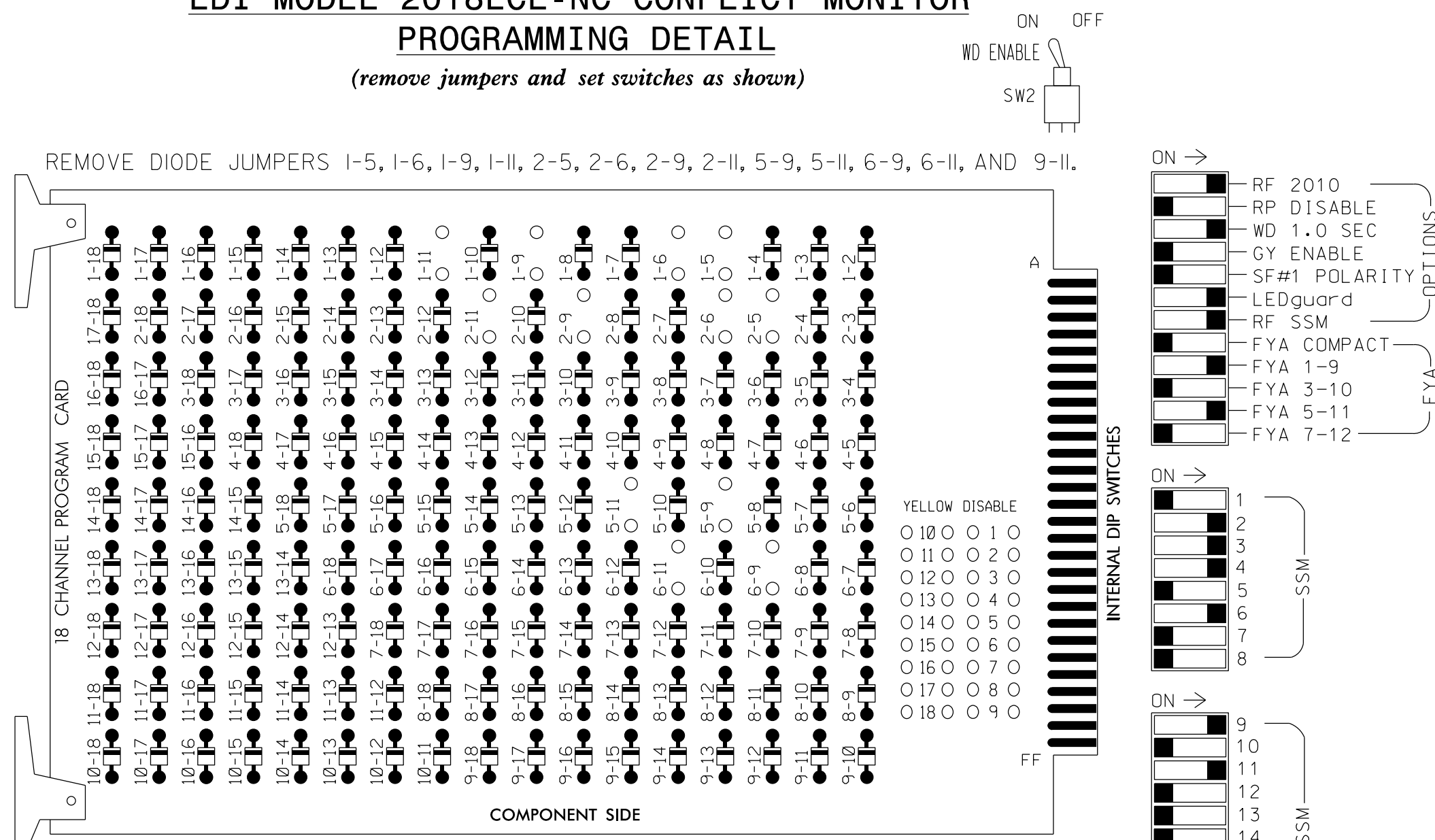


EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

(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.
- Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.

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 2 Green and 6 Green.
- The cabinet and controller are part of the US 70 (Burlington Road) Closed Loop system.

EQUIPMENT INFORMATION

CONTROLLER.....2070LX
 CABINET.....332 W/AUX
 SOFTWARE.....ECONOLITE ASC/3-2070
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S1,S2,S4,S5,S7,S8,
 AUX S1,AUX S4
 PHASES USED.....1,2,3,4,5,6
 OVERLAP "A".....*
 OVERLAP "B".....NOT USED
 OVERLAP "C".....*
 OVERLAP "D".....NOT USED
 * See overlap programming detail on sheet 2

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 PED	5	6	6 PED	7	8	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	11*	21,22	NU	31, 32,33	22	41	42	62	NU	51*	61,62	NU	11*	NU	NU	51*	NU	NU
RED		128		116	116	101	101				134							
YELLOW	*	129		117	117	102	102		*	135								
GREEN		130		118	118	103	103			136								
RED ARROW													A121				A114	
YELLOW ARROW						117		102					A122				A115	
FLASHING YELLOW ARROW													A123				A116	
GREEN ARROW	127			118	103	103	133											

NU = Not Used
 * Denotes install load resistor. See Load Resistor Installation Detail this sheet.
 * See 4-Sect. FYA-PPLT Signal Wiring Detail below.

INPUT FILE POSITION LAYOUT

(front view)

FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
∅ 1	∅ 2/SYS	∅ 2A/S3	∅ 2/SYS	∅ 2/SYS	∅ 2/SYS	∅ 4A	∅ 2/SYS	∅ 2/SYS	∅ 2/SYS	∅ 2/SYS	∅ 2/SYS	∅ 2/SYS	∅ 2/SYS	FS
NOT USED	∅ 2/SYS	2B/S4	∅ 2/SYS	∅ 2/SYS	∅ 2/SYS	NOT USED	∅ 2/SYS	∅ 2/SYS	∅ 2/SYS	∅ 2/SYS	∅ 2/SYS	∅ 2/SYS	∅ 2/SYS	DC ISOLATOR
FILE "J"	∅ 5A	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	∅ 3	∅ 3	∅ 3	∅ 3	∅ 3	∅ 3	∅ 3	∅ 3	DC ISOLATOR
NOT USED	∅ 6/SYS	6B/S2	∅ 6/SYS	∅ 6/SYS	∅ 6/SYS	3A	3C	3B	3D	∅ 3	∅ 3	∅ 3	∅ 3	

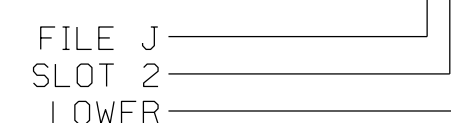
EX.: 1A, 2A, ETC. = LOOP NO.'S
 FS = FLASH SENSE
 ST = STOP TIME
 ⊗ Wired Input - Do not populate slot with detector card

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
1A ¹	TB2-1,2	I1U	56	1*	1	YES		15		S
		J4U	48	26*	6	YES		3		G
2A/S3	TB2-5,6	I2U	39	2	2/SYS	YES			X	N
2B/S4	TB2-7,8	I2L	43	12	2/SYS	YES			X	N
3A	TB5-9,10	J6U	42	8	3	YES				S
3B	TB5-11,12	J6L	46	18	3	YES				S
3C	TB7-1,2	J7U	66	38	3	YES				S
3D	TB7-3,4	J7L	79	48	3	YES				S
4A	TB4-9,10	I6U	41	4	4	YES		5		S
5A ²	TB3-1,2	J1U	55	5*	5	YES		15		S
		I4U	47	22*	2	YES		3		G
6A/S1	TB3-5,6	J2U	40	6	6/SYS	YES			X	N
6B/S2	TB3-7,8	J2L	44	16	6/SYS	YES			X	N

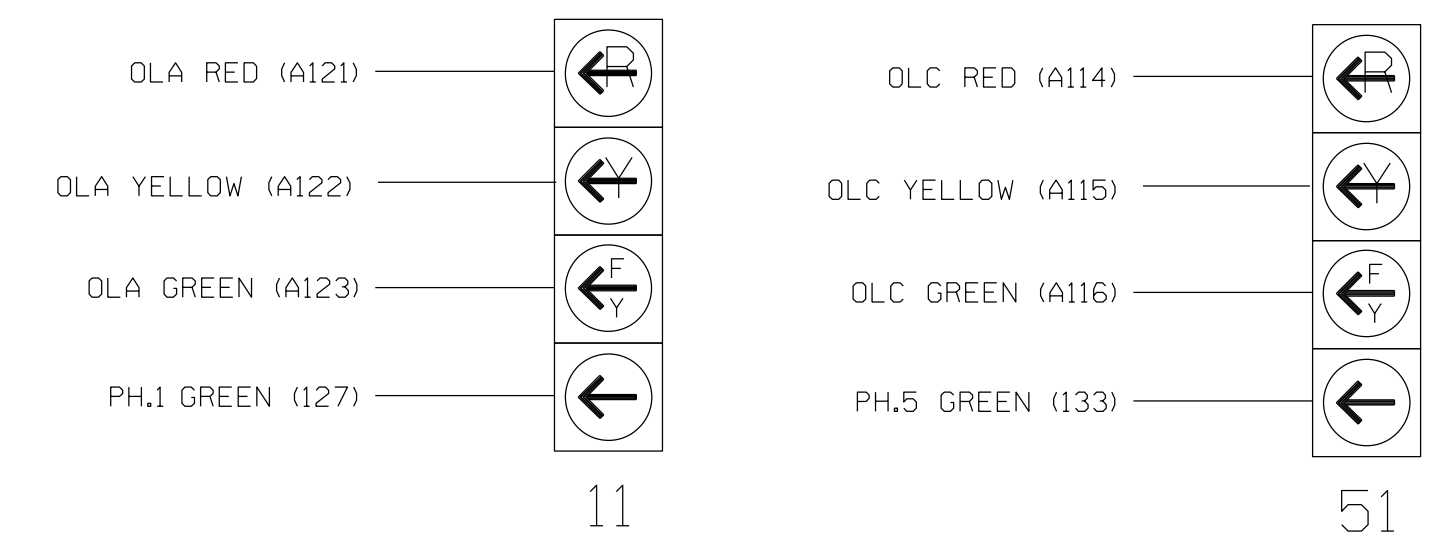
- Add jumper from I1-W to J4-W, on rear of input file.
 - Add jumper from J1-W to I4-W, on rear of input file.
- * For the detectors to work as shown on the signal design plan, see the Vehicle Detector Setup Programming Detail for Alternate Phasing on sheet 2.

INPUT FILE POSITION LEGEND: J2L



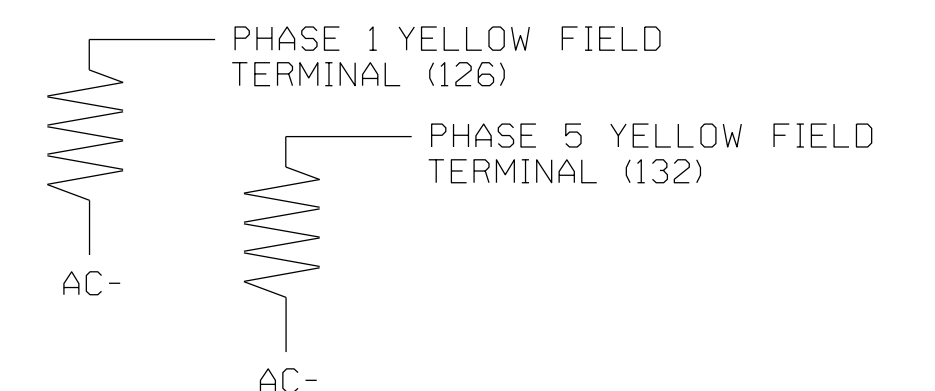
FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



LOAD RESISTOR INSTALLATION DETAIL

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



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 07-1708
 DESIGNED: September 2019
 SEALED: 10/16/2019
 REVISED: N/A

Electrical Detail-Final Upgrade (Sheet 1 of 3)

ELECTRICAL AND PROGRAMMING DETAILS FOR:

US 70 (Burlington Rd) at SR 2826 (Birch Creek Rd) and Public Driveway

Division 7 Gullford County McLeansville

PLAN DATE: September 2019 REVIEWED BY: M.L. Stygles

PREPARED BY: J. Ma REVIEWED BY:

REVISIONS INIT. DATE

10/16/2019

750 N. Greenfield Pkwy, Garner, NC 27529

SEAL 033108

SEAL 033108

DATE

SIG. INVENTORY NO. 07-1708

