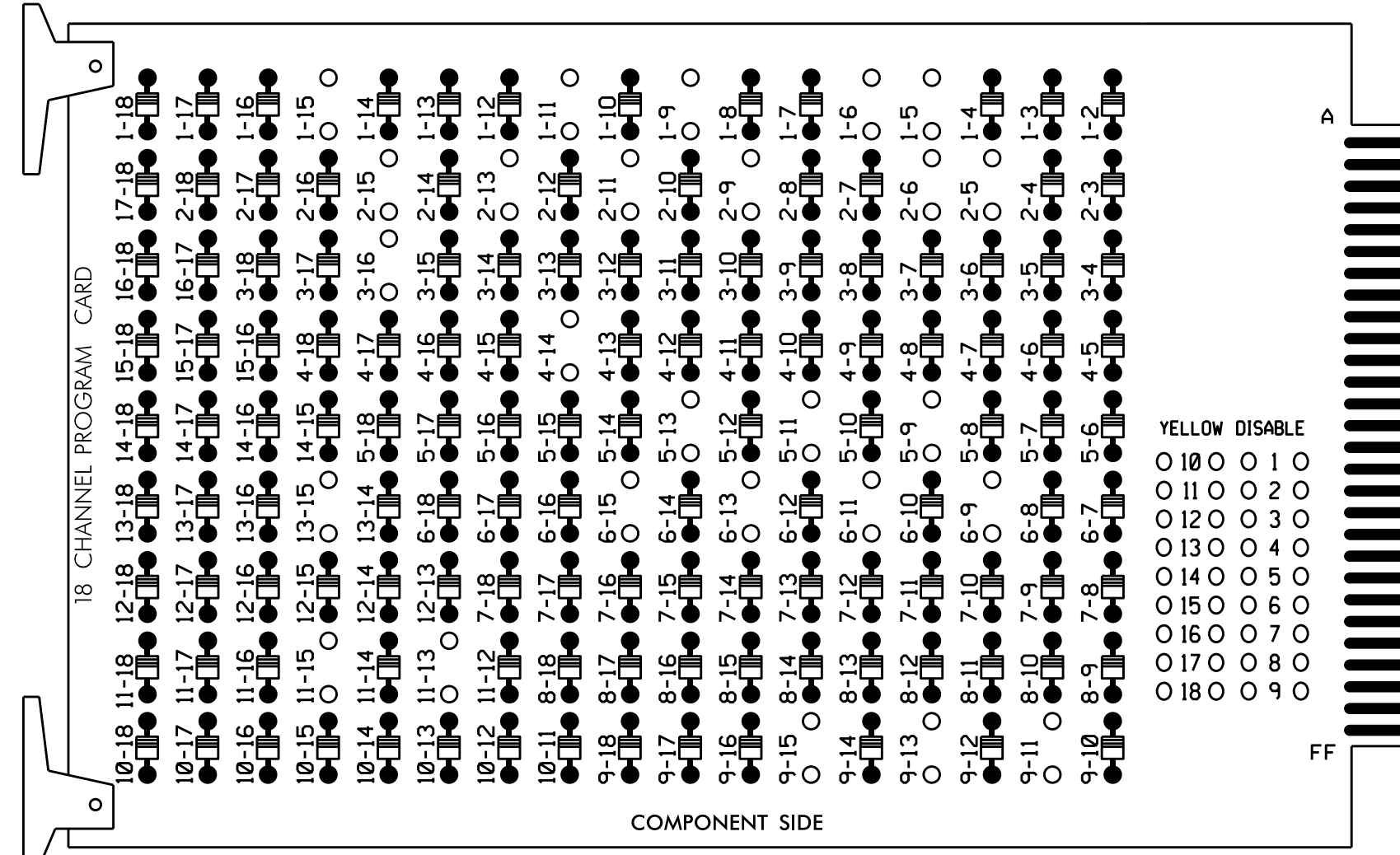


**EDI MODEL 2018EClip-NC CONFLICT MONITOR**  
**PROGRAMMING DETAIL**

(remove jumpers and set switches as shown)

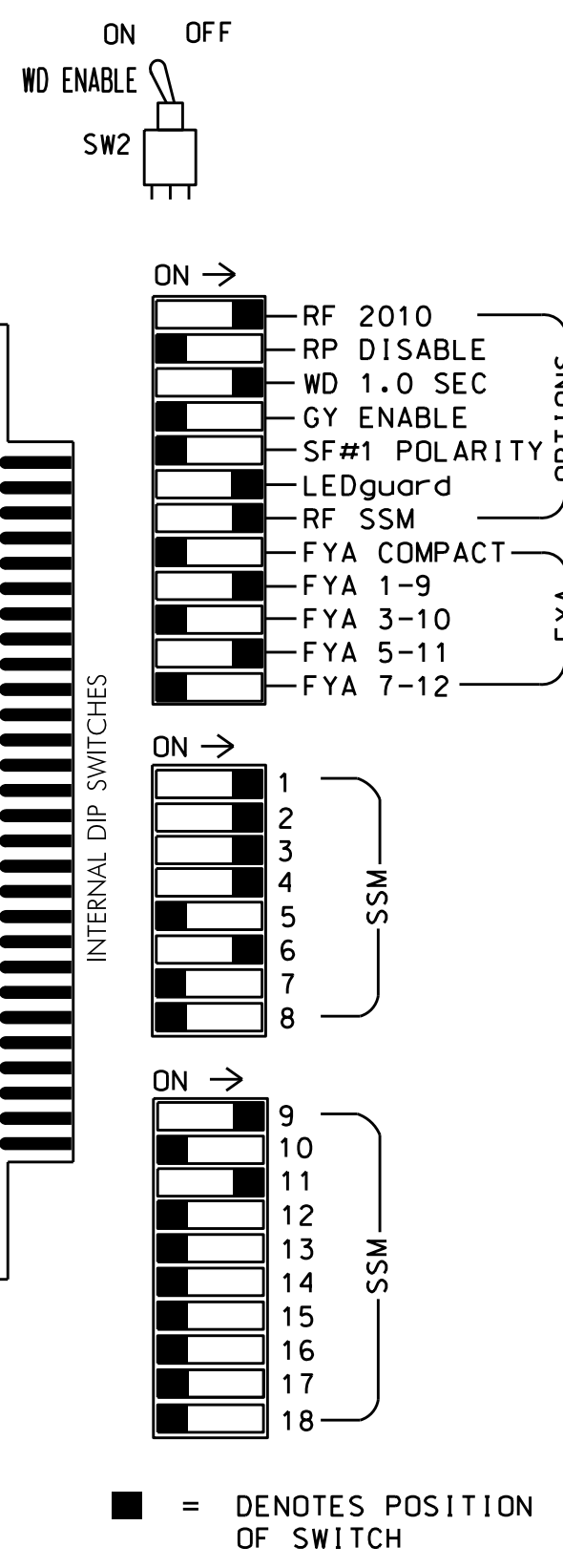
REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-11, 1-15, 2-5, 2-6, 2-9, 2-11, 2-13, 2-15, 3-16, 4-14, 5-9, 5-11, 5-13, 6-9, 6-11, 6-13, 6-15, 9-11, 9-13, 9-15, 11-13, 11-15, and 13-15.



REMOVE JUMPERS 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.
- Enable Simultaneous Gap-Out for all phases.
- Program controller to start up in phase 2 Walk and 6 Walk.
- The cabinet and controller are part of the Fayetteville Signal System.

**EQUIPMENT INFORMATION**

CONTROLLER.....2070E  
 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,S3,S4,S5,S6,S7,S8,S9,  
 S12,AUX S1,AUX S4  
 PHASES USED.....1,2,2PED,3,3PED,4,4PED,5,6,6PED  
 OVERLAP "A".....\*  
 OVERLAP "B".....NOT USED  
 OVERLAP "C".....\*  
 OVERLAP "D".....NOT USED  
 \* See overlap programming detail on sheet 2

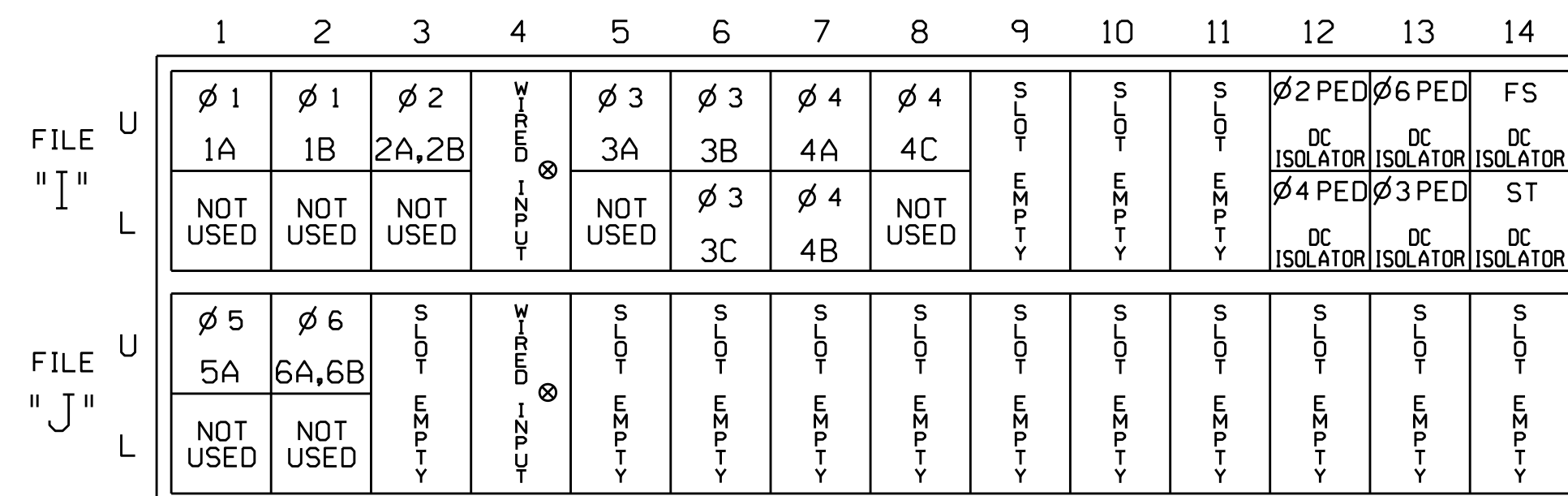
**SIGNAL HEAD HOOK-UP CHART**

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	3 PED	OLA	OLB	SPARE	OLC	OLD	SPARE	
SIGNAL HEAD NO.	11★	34	21,22	P21, P22	31,32	33,34	41	42	P41, P42	51★	61,62	P61, P62	NU	NU	P31, P32	11★	NU	51★	NU
RED	*	128		116	101	101				134									
YELLOW		129		117	102	102		*	135										
GREEN		130		118	103	103			136										
RED ARROW				116									A121			A114			
YELLOW ARROW	126			117									A122			A115			
FLASHING YELLOW ARROW													A123			A116			
GREEN ARROW	127	127		118	103				133										
Hand				113				104		119		110							
Walking				115				106		121		112							

NU = Not Used  
 \* 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)



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

FS = FLASH SENSE  
 ST = STOP TIME

⊗ Wired Input - Do not populate slot with detector card

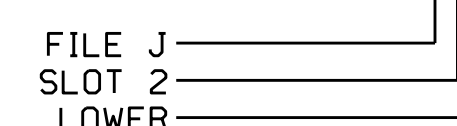
**INPUT FILE CONNECTION & PROGRAMMING CHART**

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND TIME	DELAY TIME	DETECTOR TYPE
1A <sup>1</sup>	TB2-1,2	I1U	56	1	1	YES		15	S
		J4U	48	26	6	YES			S
★ 1B	TB2-5,6	I2U	39	2	1	YES		15	N
2A,2B	TB2-9,10	I3U	63	32	2	YES			S
3A	TB4-5,6	I5U	58	3	3	YES		3	S
3B	TB4-9,10	I6U	41	4	3	YES			S
3C	TB4-11,12	I6L	45	14	3	YES			S
4A	TB6-1,2	I7U	65	34	4	YES		3	S
4B	TB6-3,4	I7L	78	44	4	YES			S
4C	TB6-5,6	I8U	49	24	4	YES		10	S
5A <sup>2</sup>	TB3-1,2	J1U	55	5	5	YES		15	S
		I4U	47	22	2	YES			S
6A,6B	TB3-5,6	J2U	40	6	6	YES			S
PED PUSH BUTTONS									
P21,P22	TB8-4,6	I12U	67	PED 2	2 PED				
P31,P32	TB8-8,9	I13L	70	PED 8	3 PED				
P41,P42	TB8-5,6	I12L	69	PED 4	4 PED				
P61,P62	TB8-7,9	I13U	68	PED 6	6 PED				

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

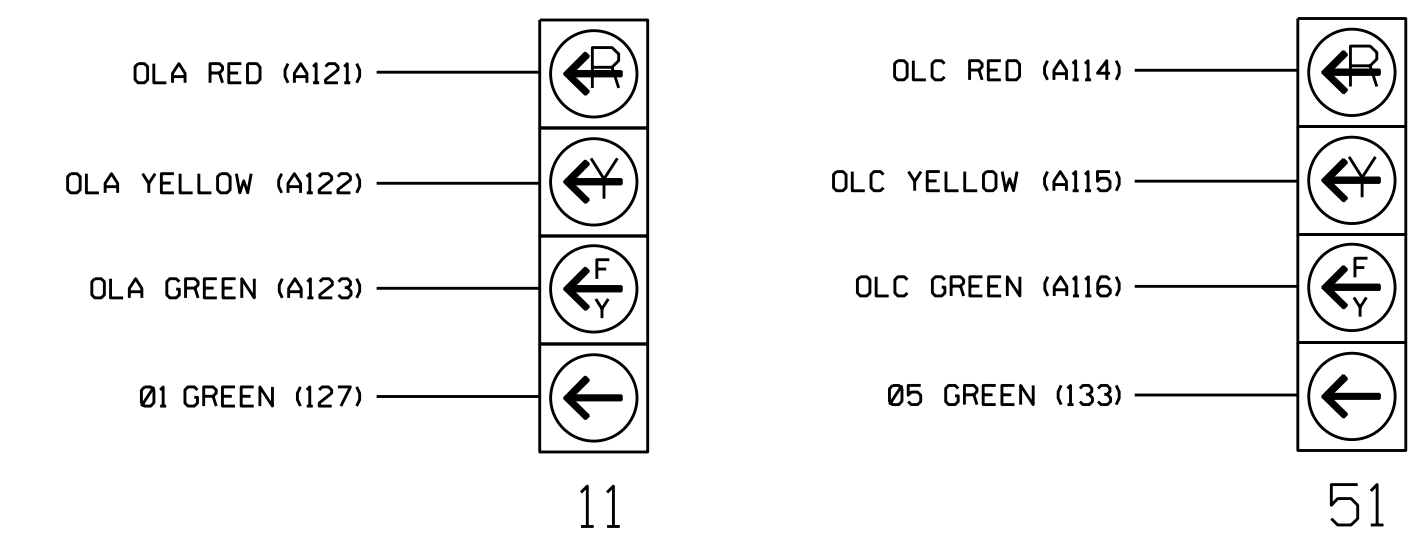
- <sup>1</sup>Add jumper from I1-W to J4-W, on rear of input file.  
<sup>2</sup>Add jumper from J1-W to I4-W, on rear of input file.  
 ★ Enable detector 2 as a Cross Switch detector and program its cross switch phase as phase 3 per the Vehicle Detector Setup Programming Detail shown on sheet 2.

INPUT FILE POSITION LEGEND: J2L



**FYA SIGNAL WIRING DETAIL**

(wire signal heads as shown)

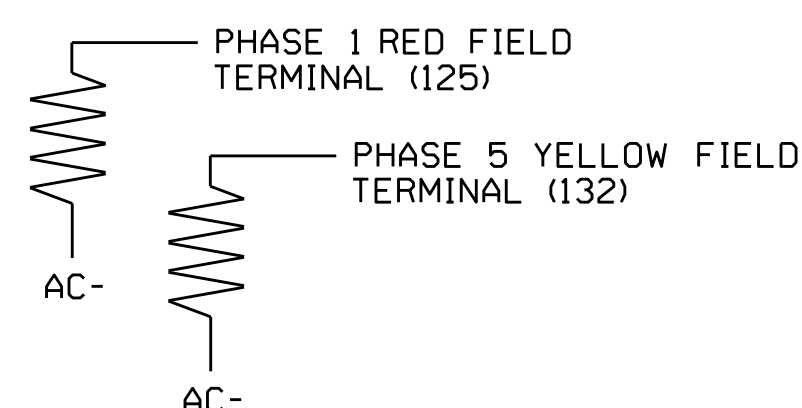


THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 06-0010  
 DESIGNED: June 2016  
 SEALED: 9/7/2016  
 REVISED: N/A

**LOAD RESISTOR INSTALLATION DETAIL**

(install resistors as shown)

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



Electrical Detail - Sheet 1 of 3

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared In the Offices of:  
 TRANSPORTATION MOBILITY AND SAFETY DIVISION  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 Signal Management Section  
 750 N. Greenfield Pkwy, Garner, NC 27529

SR 3828 (Robeson Street) at SR 2299 (Russell Street)

Division 6 Cumberland County Fayetteville  
 PLAN DATE: September 2016 REVIEWED BY: BAS  
 PREPARED BY: S. Armstrong REVIEWED BY:

REVISIONS INIT. DATE

DocuSigned by:  
 Keith M. Mims 10/4/2016  
 2F807868C123445 DATE

SIG. INVENTORY NO. 06-0010