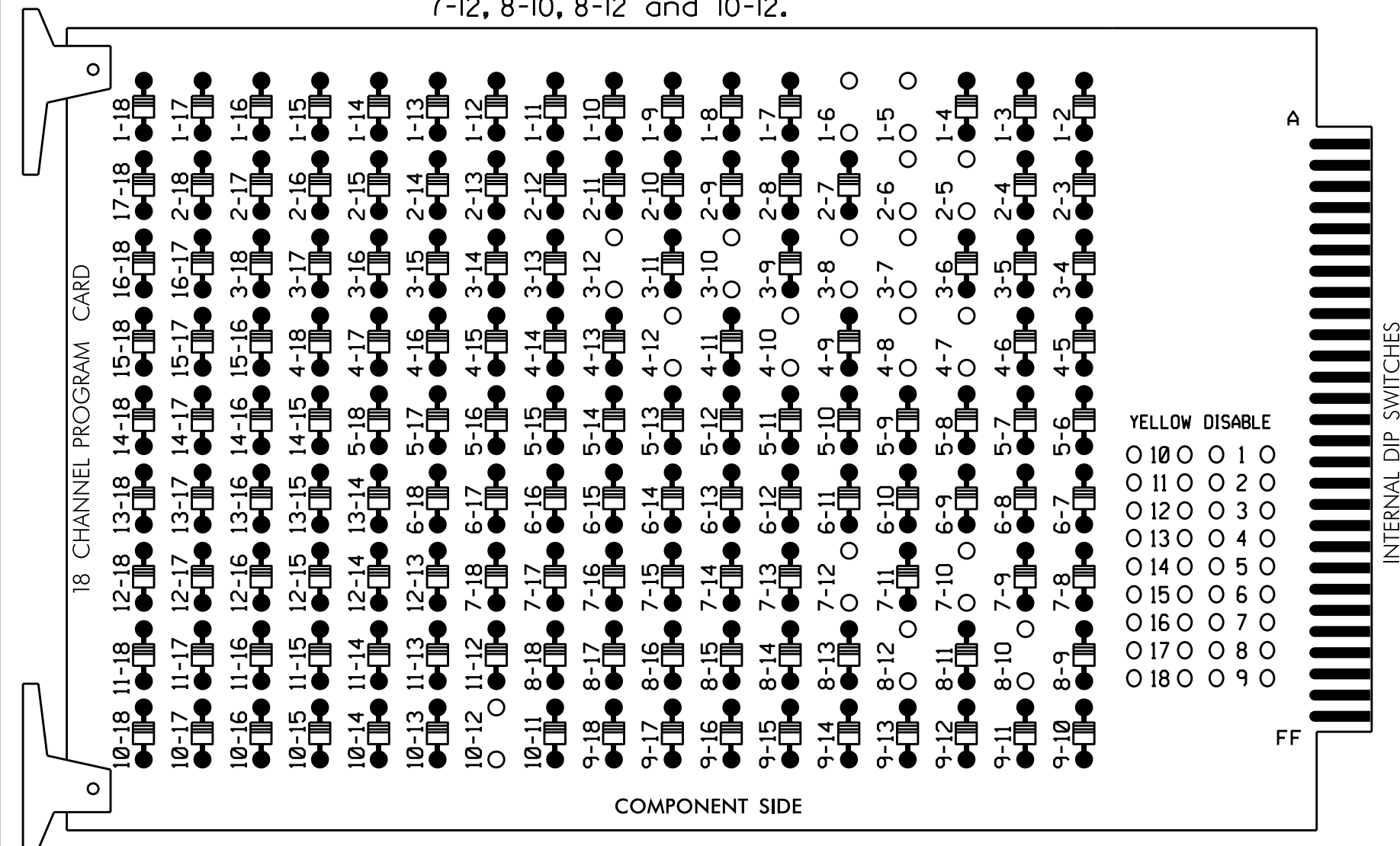


**EDI MODEL 2018ECLIP-NC CONFLICT MONITOR PROGRAMMING DETAIL**

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-5, 1-6, 2-5, 2-6, 3-7, 3-8, 3-10, 3-12, 4-7, 4-8, 4-10, 4-12, 7-10, 7-12, 8-10, 8-12 and 10-12.



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.

■ = DENOTES POSITION OF SWITCH

**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 phases 4 and 8 for Dual Entry.
- Enable Simultaneous Gap-Out for all phases.
- Program phases 2 and 6 for volume density operation.
- Program controller to start up in phase 2 Green and 6 Green.
- 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,S4,S5,S7,S8,S10,S11,  
 AUX S2,AUX S5  
 PHASES USED.....1,2,3,4,5,6,7,8  
 OVERLAP "A".....NOT USED  
 OVERLAP "B".....\*  
 OVERLAP "C".....NOT USED  
 OVERLAP "D".....\*  
 \* 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.	11,12	83	21,22,23	NU	31	41,42,43	NU	43	51,52	61,62,63	NU	62	71	81,82,83	NU	31	NU	71	NU
RED		128			101				134		*	107							
YELLOW		129		*	102				135			108							
GREEN		130			103				136			109							
RED ARROW	125							131							A124			A101	
YELLOW ARROW	126	126					132	132		123					A125			A102	
FLASHING YELLOW ARROW															A126			A103	
GREEN ARROW	127	127			118			133	133		124	124							

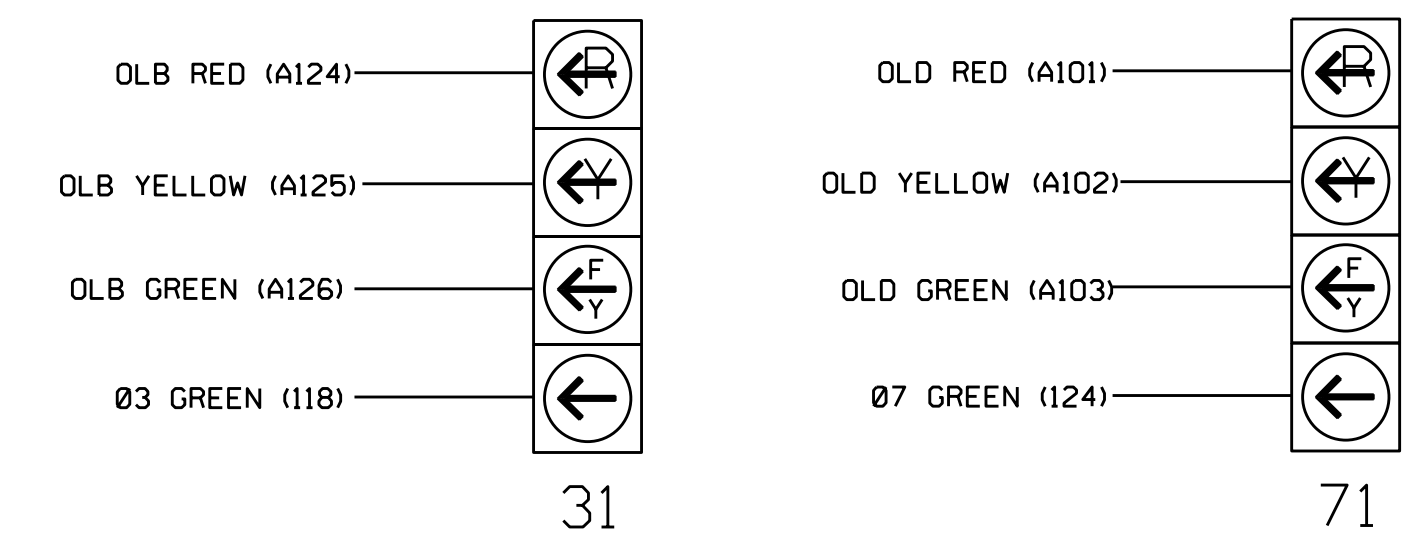
NU = Not Used

\* Denotes install load resistor. See load resistor installation detail this sheet.

★ See pictorial of head wiring in detail this sheet.

**FYA SIGNAL WIRING DETAIL**

(wire signal heads as shown)



**INPUT FILE POSITION LAYOUT**

(front view)

FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	∅ 1	∅ 1	∅ 2	S	∅ 3	∅ 4	∅ 4							FS
L	1A	1B	2A	→	3A	4A	4C							DC ISOLATOR
	NOT USED	∅ 1	∅ 2	←	NOT USED	∅ 4	∅ 4							ST
		1C	2B	←		4B	4D							DC ISOLATOR
U	∅ 5	∅ 5	∅ 6	S	∅ 7	∅ 8	∅ 8							S
L	5A	5B	6A	→	7A	8A	8C							DC ISOLATOR
	NOT USED	∅ 5	∅ 6	←	NOT USED	∅ 8	∅ 8							DC ISOLATOR
		5C	6B	←		8B	8D							DC ISOLATOR

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

FS = FLASH SENSE  
 ST = STOP TIME

⊗ Wired Input - Do not populate slot with detector card

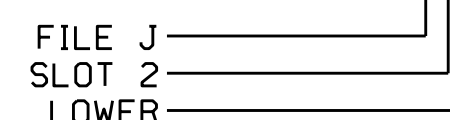
**INPUT FILE CONNECTION & PROGRAMMING CHART**

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND TIME	DELAY TIME	DETECTOR TYPE
1A	TB2-1,2	I1U	56	1	1	YES			S
1B	TB2-5,6	I2U	39	2	1	YES			S
1C	TB2-7,8	I2L	43	12	1	YES		15	S
2A	TB2-9,10	I3U	63	32	2	YES			N
2B	TB2-11,12	I3L	76	42	2	YES			N
3A <sup>1</sup>	TB4-5,6	I5U	58	3	3	YES		15	S
	-	J8U	50	28	8	YES			S
4A	TB4-9,10	I6U	41	4	4	NO	3.1		S
4B	TB4-11,12	I6L	45	14	4	NO	3.1		S
4C	TB6-1,2	I7U	65	34	4	YES			S
4D	TB6-3,4	I7L	78	44	4	YES			S
5A	TB3-1,2	J1U	55	5	5	YES			S
5B	TB3-5,6	J2U	40	6	5	YES			S
5C	TB3-7,8	J2L	44	16	5	YES		15	S
6A	TB3-9,10	J3U	64	36	6	YES			N
6B	TB3-11,12	J3L	77	46	6	YES			N
7A <sup>2</sup>	TB5-5,6	J5U	57	7	7	YES		15	S
	-	I8U	49	24	4	YES			S
8A	TB5-9,10	J6U	42	8	8	NO	3.1		S
8B	TB5-11,12	J6L	46	18	8	NO	3.1		S
8C	TB7-1,2	J7U	66	38	8	YES			S
8D	TB7-3,4	J7L	79	48	8	YES			S
*S6A	TB7-9,10	J9U	59	15	SYS	NO			N
*S6B	TB7-11,12	J9L	61	17	SYS	NO			N

\* System detector only. Remove any assigned vehicle phase.

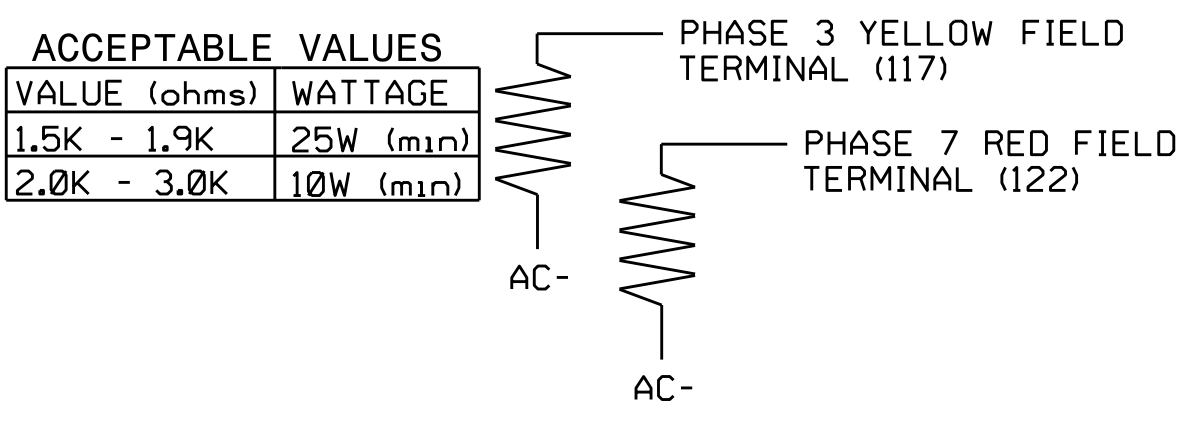
- Add jumper from I5-W to J8-W, on rear of input file.
- Add jumper from J5-W to I8-W, on rear of input file.

INPUT FILE POSITION LEGEND: J2L



**LOAD RESISTOR INSTALLATION DETAIL**

(install resistors as shown)



Electrical Detail Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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

NC 162 (George Owen Rd/Elk Rd) at SR 1003 (Camden Road)  
 Division 6 Cumberland County Fayetteville  
 PLAN DATE: September 2016 REVIEWED BY: BAS  
 PREPARED BY: James Peterson REVIEWED BY:  
 REVISIONS INIT. DATE  
 Drawn by: Keith M. Mims 10/3/2016  
 SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER KEITH M. MIMS  
 27807REBCD3445  
 SIG. INVENTORY NO. 06-1255