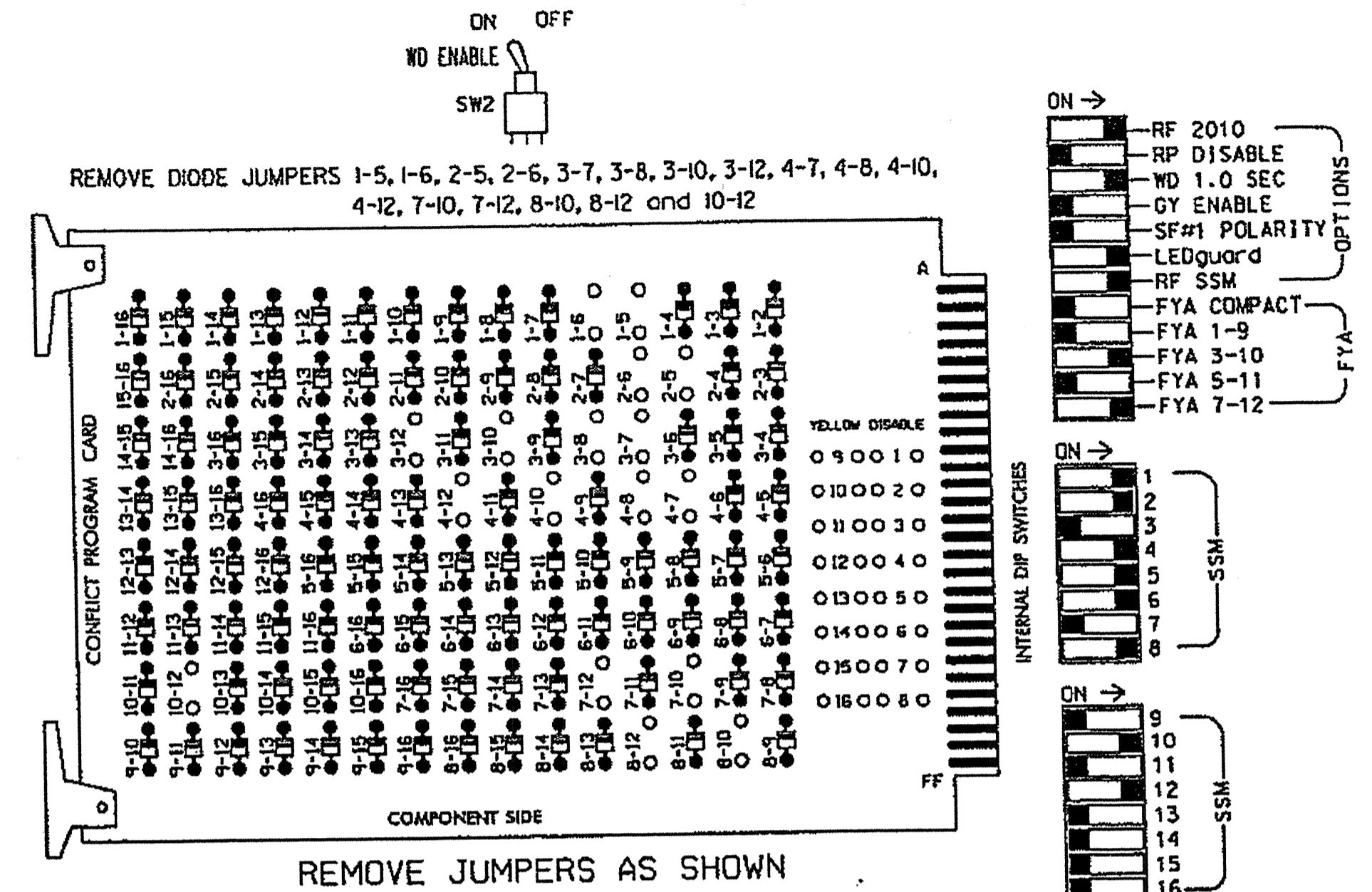




43518.3.1

**EDI MODEL 2010ECL-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.
  - Make sure jumpers SEL2-SEL5 are present on the monitor board.

**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.
- Ensure that Red Enable is active of all times during normal operation. To prevent Red Failures on unused monitor channels, tie unused red monitor inputs 3,7,9, 11,13,14,15 & 16 to load switch AC+ per the cabinet manufacturer's instructions.
- Program phases 4 and 8 for Dual Entry.
- Enable Simultaneous Gap-Out for all phases.
- Program phases 2 and 6 for Variable Initial and phases 2,4,6 and 8 for Gap Reduction.
- Program phases 2 and 6 for Start Up In Green.
- Program phases 2 and 6 for Yellow Flash, and overlap 2 as WAG Overlaps.

**EQUIPMENT INFORMATION**

CONTROLLER.....2070L  
 CABINET.....332 /W/ AUX  
 SOFTWARE.....ECONOLITE OASIS  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE  
 LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6,S7,S8,S10,  
 S13.  
 PHASES USED.....1,2,3,4,5,6,7,8.  
 OVERLAP "A".....NOT USED  
 OVERLAP "B".....3+4  
 OVERLAP "C".....NOT USED  
 OVERLAP "D".....7+8

**SIGNAL HEAD HOOK-UP CHART**

LOAD SWITCH NO.	S1	S2	S2P	S3	S4	S4P	S5	S6	S6P	S7	S8	S8P	S9	S10	S11	S12	S13	S14
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	9	10	11	12	13	14
SIGNAL HEAD NO.	11,12	62	21,22 23	NU	31	41,42 43	NU	51	61,62 63	NU	71	81,82 83	NU	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							A125			A102	
FLASHING YELLOW ARROW														A126			A103	
GREEN ARROW	127	127			118		133			124								

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)

FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14	FS
U	φ 1	φ 2	φ 3	φ 4	φ 5	φ 6	φ 7	φ 8	φ 9	φ 10	φ 11	φ 12	φ 13	φ 14	ISOLATOR
L	1A	2A	3A	4A	5A	6A	7A	8A	9A	10A	11A	12A	13A	14A	ST
U	φ 1	φ 1	φ 1	φ 1	φ 1	φ 1	φ 1	φ 1	φ 1	φ 1	φ 1	φ 1	φ 1	φ 1	ISOLATOR
L	1B	1C	2B	2C	3B	3C	4B	4C	5B	5C	6B	6C	7B	7C	8B

EX.: 1A, 2A, ETC. = LOOP NO.'S  
 FS = FLASH SENSE  
 ST = STOP TIME

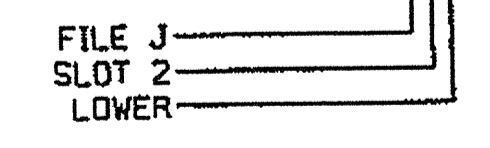
⊗ Wired Input - Do not populate slot with detector card

**INPUT FILE CONNECTION & PROGRAMMING CHART**

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
1A	T82-5,6	I2U	39	1	2	1	Y	Y			3
1B	T82-7,8	I2L	43	5	12	1	Y	Y			10
1C	T82-11,12	I3L	76	38	42	1	Y	Y			15
2A	T82-9,10	I3U	63	25	32	2	Y	Y			3
3A <sup>1</sup>	T84-5,6	I5U	58	20	3	3	Y	Y	Y		15
		J8U	50	12	28	8	Y	Y			3
4A	T84-9,10	I6U	41	3	4	4	Y	Y			5
4B	T84-11,12	I6L	45	7	14	4	Y	Y	Y	2.0	5
5A	T83-1,2	J1U	55	17	5	5	Y	Y			3
6A	T83-5,6	J2U	40	2	6	6	Y	Y			3
7A <sup>2</sup>	T85-5,6	J5U	57	19	7	7	Y	Y	Y		15
		I8U	49	11	24	4	Y	Y	Y		3
8A	T85-9,10	J6U	42	4	8	8	Y	Y	Y	2.0	5
8B	T85-11,12	J6L	46	8	18	8	Y	Y	Y	2.0	5

- <sup>1</sup>Add jumper from I5-W to J8-W, on rear of input file.  
<sup>2</sup>Add jumper from J5-W to I8-W, on rear of input file.

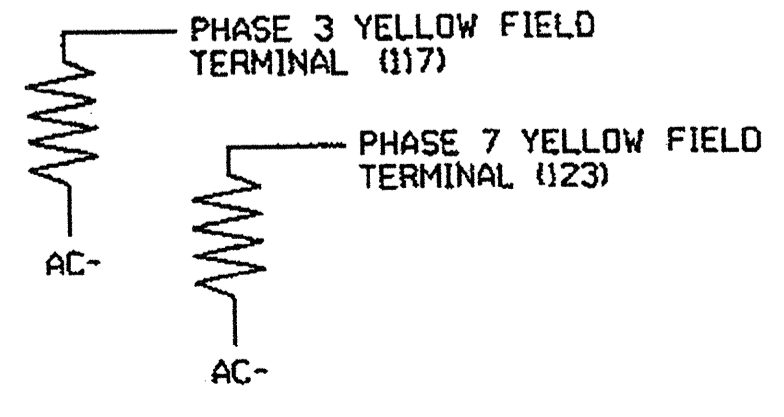
INPUT FILE POSITION LEGEND: J2L



**LOAD RESISTOR INSTALLATION DETAIL**

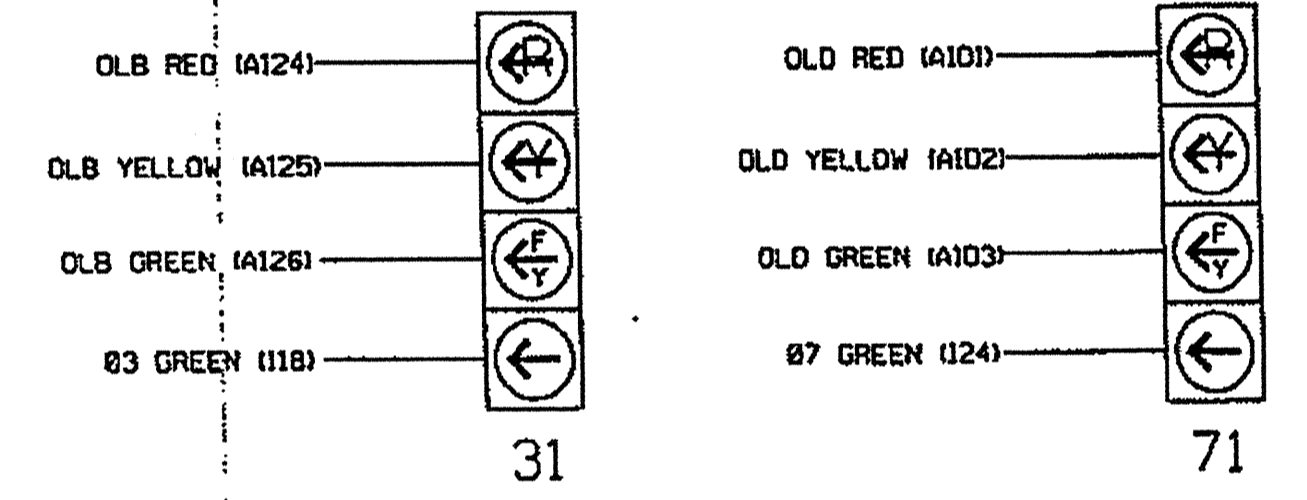
(install resistors as shown below)

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



**4 SECTION FYA PPLT SIGNAL WIRING DETAIL**

(wire signal heads as shown)



- NOTE
- The sequence display for these signals require special logic programming. See sheet 2 of 2 for programming instructions.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0210  
 DESIGNED: April 2012  
 SEALED: 05/25/12  
 REVISED: N/A

THIS ELECTRICAL DETAIL SUPERSEDES THE DETAIL SEALED ON 05/18/12

**ELECTRICAL DETAIL SHEET 1 OF 2**

Prepared in the Office of:  
 TRANSPORTATION  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 750 H. Drive, Raleigh, NC 27601

Division 03 Onslow County W. of Shooks Ferry  
 PLAN DATE: May 2012 REVIEWED BY: T.J.P.  
 PREPARED BY: C. Strickland REVIEWED BY:  
 REVISIONS: INIT. DATE

SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 022013  
 GEORGE C. STRICKLAND  
 ENGINEER

SIG. INVENTORY NO. 03-0210

