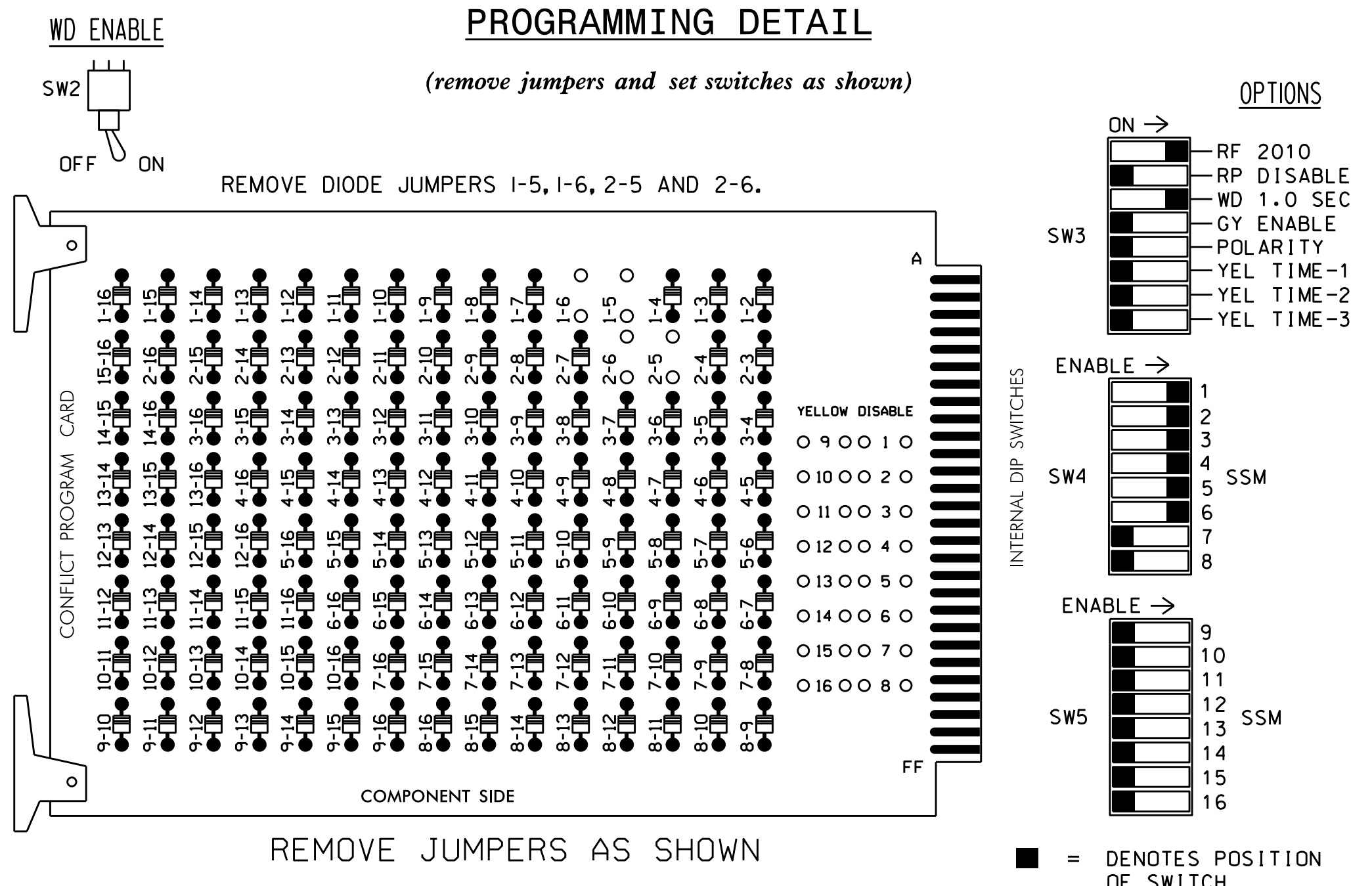


**EDI MODEL 2010ECL CONFLICT MONITOR**

**PROGRAMMING DETAIL**



- REMOVE DIODE JUMPERS 1-5, 1-6, 2-5 AND 2-6.
- REMOVE JUMPERS 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 at all times during normal operation. To prevent Red Failures on unused monitor channels, tie unused red monitor inputs 7,8,9, 10,11,12,13,14,15 & 16 to load switch AC+ per the cabinet manufacturer's instructions.
- Enable Simultaneous Gap-Out for all phases.
- Program phases 2 and 6 for Variable Initial and Gap Reduction.
- Program phases 2 and 6 for Start Up In Green.
- Program phases 2 and 6 for Yellow Flash.
- The cabinet and controller are part of the Wilmington Signal System.

**SIGNAL HEAD HOOK-UP CHART**

LOAD SWITCH NO.	S1	S2	S2P	S3	S4	S4P	S5	S6	S6P	S7	S8	S8P
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED
SIGNAL HEAD NO.	61	21,22	NU	31	32	41	42	43	NU	21,43	61,62	NU
RED	*	128		116	116	101	101		*	134		
YELLOW		129		117	117	102	102			135		
GREEN		130		118	118	103	103			136		
RED ARROW						101						
YELLOW ARROW	126					102				132		
GREEN ARROW	127			118	103	103				133		

NU = Not Used  
\* Denotes install load resistor. See load resistor installation detail this sheet.

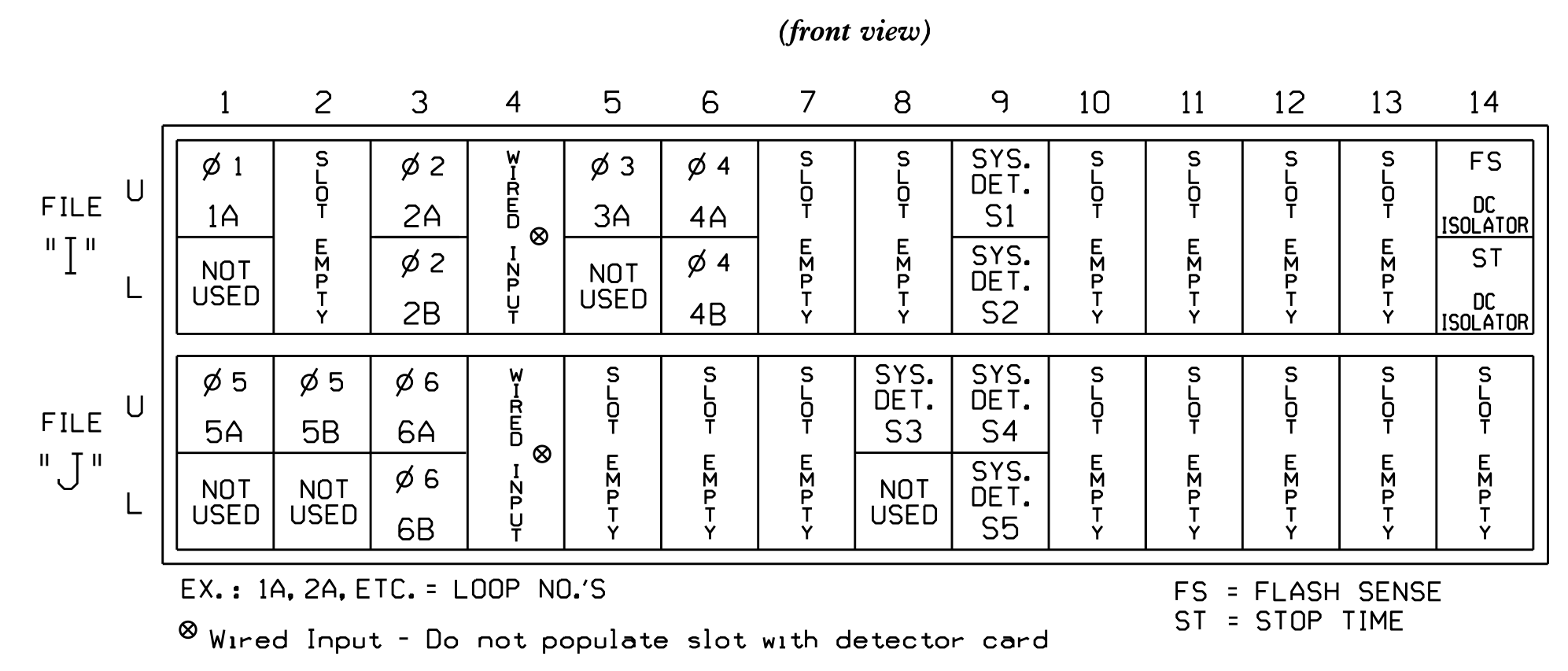
**EQUIPMENT INFORMATION**

CONTROLLER.....2070L  
CABINET.....332  
SOFTWARE.....ECONOLITE OASIS  
CABINET MOUNT.....BASE  
OUTPUT FILE POSITIONS...12  
LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6  
PHASES USED.....1,2,3,4,5,6  
OVERLAPS.....NONE

**BACKUP PROTECTION NOTE**

(program controller as shown below)  
From Main Menu press '2' (Phase Control), then '1' (Phase Control Functions). Program phase 2 and phase 6 for 'Backup Protect'. Make sure the Red Revert times shown on the Signal Design Plans are programmed in the 'Phase Timing' menu.

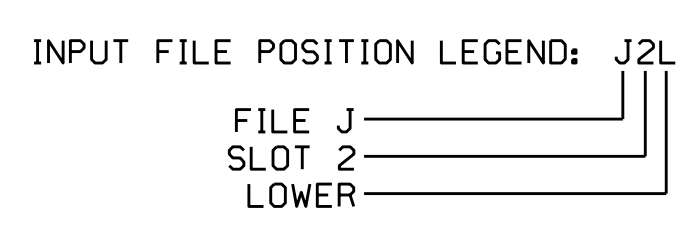
**INPUT FILE POSITION LAYOUT**



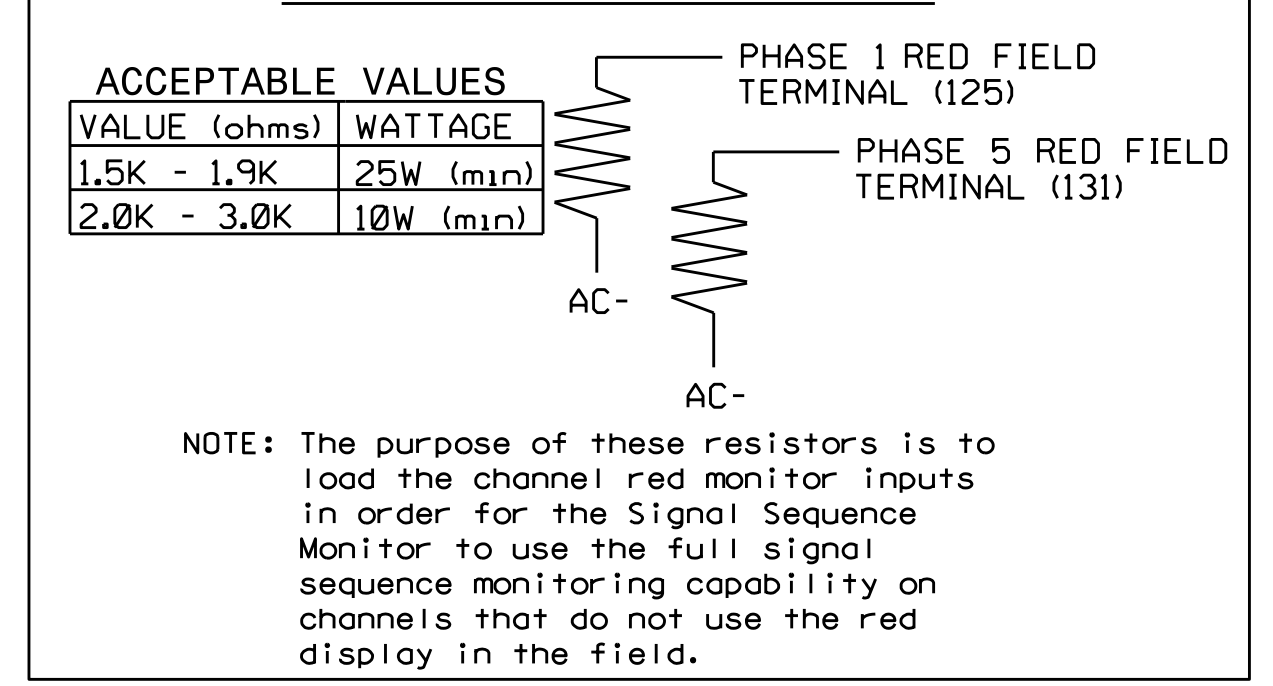
**INPUT FILE CONNECTION & PROGRAMMING CHART**

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 <sup>1</sup>	TB2-1,2	I1U	56	18	1	1	Y	Y			15
2A	TB2-9,10	J4U	48	10	26	6	Y	Y	Y		3
2B	TB2-11,12	I3U	63	25	32	2	Y	Y			
3A	TB4-5,6	I5U	58	20	3	3	Y	Y			10
4A	TB4-9,10	I6U	41	3	4	4	Y	Y			
4B	TB4-11,12	I6L	45	7	14	4	Y	Y			
5A <sup>2</sup>	TB3-1,2	J1U	55	17	5	5	Y	Y			10
5B	TB3-5,6	J2U	40	2	6	5	Y	Y	Y		3
6A	TB3-9,10	J3U	64	26	36	6	Y	Y			15
6B	TB3-11,12	J3L	77	39	46	6	Y	Y			
* S1	TB6-9,10	I9U	60	22	11	SYS					
* S3	TB7-5,6	J8U	50	12	28	SYS					
* S4	TB7-9,10	J9U	59	21	15	SYS					
* S5	TB7-11,12	J9L	61	23	17	SYS					
* S2	TB6-11,12	I9L	62	24	13	SYS					

- <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.  
\* SYSTEM DETECTOR ONLY. REMOVE THE VEHICLE PHASE ASSIGNED TO THIS DETECTOR IN THE DEFAULT PROGRAMMING.



**LOAD RESISTOR INSTALLATION DETAIL**



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0733  
DESIGNED: February 2010  
SEALED: 4-01-10  
REVISED1: 4-05-12  
REVISED2: 7-20-15

\$FILES \$USERS \$TIMES \$DATES

PLANS PREPARED IN THE OFFICE OF:  
**Kimley-Horn and Associates, Inc.**  
NC License #F-0102  
P.O. Box 33068  
Raleigh, NC 27636  
1991677-2000

REVISION SEAL  
STATE OF NORTH CAROLINA  
SEAL 008453  
JOHN T. ROWE, JR.  
ENGINEER  
DocuSigned by:  
John T. Rowe, Jr.  
7/22/2015  
DATE

ELECTRICAL AND PROGRAMMING DETAILS FOR:  
Signal Upgrade  
Prepared in the Offices of:  
TRANSFORMATIONAL MOBILITY AND SAFETY SOLUTIONS  
750 N. Greenfield Pkwy, Garner, NC 27529

US 421 (Carolina Beach Road) at SR 1187 (Sanders Road)/ ABA Ministorage  
Division 3 New Hanover County Wilmington  
PLAN DATE: February 2010 REVIEWED BY:  
PREPARED BY: J. Cross REVIEWED BY: S. Phillips  
REVISIONS  
INIT. DATE  
4-9-13  
7/22/2015  
Revised SR right turn to a yield movement and revised clearance times. LRP  
Installed new loops, no change to electrical detail. LRP

SEAL  
Not a certified document as to the Original Document but only as to the Revisions - This document originally issued and sealed by Stacie Phillips, PE# 32607, on 4-01-2010. This document is only certified as to the revisions.  
SIGNATURE DATE  
SIG. INVENTORY NO. 03-0733