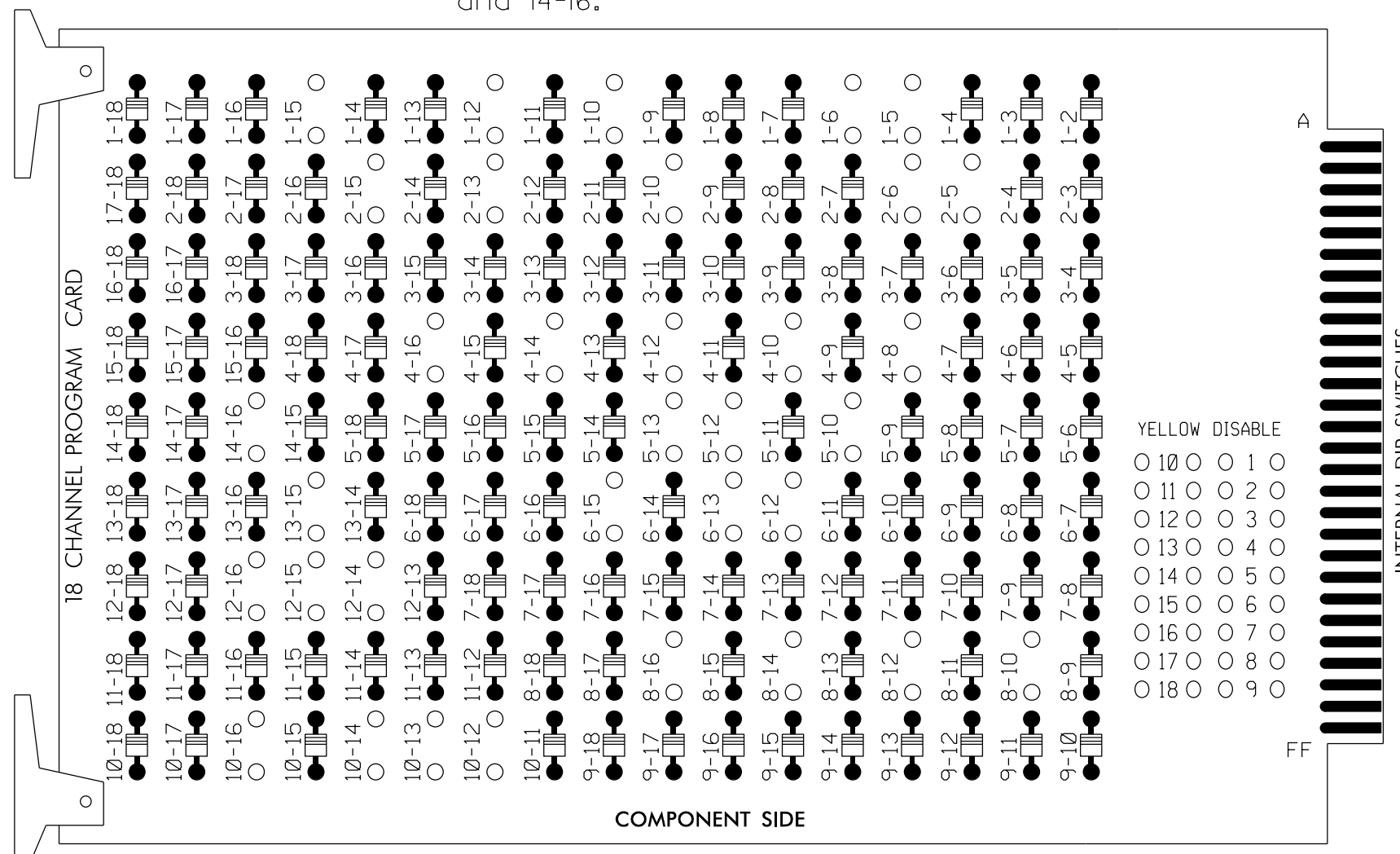


EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-5, 1-6, 1-10, 1-12, 1-15, 2-5, 2-6, 2-10, 2-13, 2-15, 4-8, 4-10, 4-12, 4-14, 4-16, 5-10, 5-12, 5-13, 6-12, 6-13, 6-15, 8-10, 8-12, 8-14, 8-16, 10-12, 10-13, 10-14, 10-16, 12-14, 12-15, 12-16, 13-15 and 14-16.



REMOVE JUMPERS AS SHOWN

NOTES:

1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
2. Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
3. Ensure that Red Enable is active at all times during normal operation.
4. Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.

NOTES

1. 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.
2. Program phase 4 and 8 for Dual Entry.
3. Enable Simultaneous Gap-Out for all phases.
4. Program phases 2 and 6 for Variable Initial.
5. Program phases 2, 4, 6 and 8 for Gap Reduction.
6. Program phases 2 and 6 for Start Up In Green.
7. Program phases 2, 4, 6 and 8 for 'STARTUP PED CALL'.
8. Program phases 2 and 6 for Yellow Flash and overlap 4 as Wag Overlaps.
9. The cabinet and controller are part of the Wilmington Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070E
 CABINET.....332 /W/ AUX
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S1,S2,S3,S5,S6,S7,S8,S9,S11,S12,
 AUX S2,AUX S5.
 PHASES USED.....1,2,2PED,4,4PED,5,6,6PED,8,8PED.
 OVERLAP "A".....NOT USED
 OVERLAP "B".....4+5
 OVERLAP "C".....NOT USED
 OVERLAP "D".....1+8

PROJECT REFERENCE NO.	SHEET NO.
U-3338B	Sig. 13.1

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	21,22	P21, P22	NU	41,42	P41, P42	51,52	61,62, 63	P61, P62	NU	81,82	P81, P82	NU	43	NU	NU	83	NU
RED	128				101			134			107			A124				A101
YELLOW	129				102			135			108							
GREEN	130				103			136			109							
RED ARROW	125							131										
YELLOW ARROW	126							132						A125				A102
FLASHING YELLOW ARROW														A126				A103
GREEN ARROW	127							133										
Hand				113		104			119				110					
Walking				115		106			121				112					

NU = Not Used

★ See pictorial of head wiring in detail below.

COUNTDOWN PEDESTRIAN SIGNAL OPERATION

Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

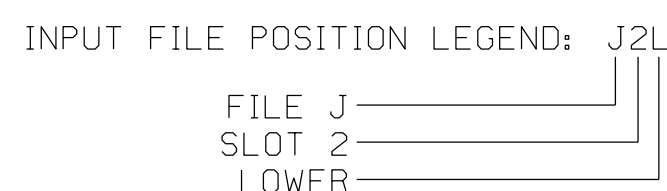
INPUT FILE POSITION LAYOUT

(front view)

FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	∅ 1	∅ 1	∅ 2	SYS. DET. S5	∅ 4	∅ 4	∅ 4	SYS. DET. S1	SYS. DET. S2	∅ 2 PED ISOLATOR	∅ 6 PED ISOLATOR	FS		
L	NOT USED	∅ 1	∅ 2	NOT USED	∅ 4	∅ 4	NOT USED	NOT USED	NOT USED	∅ 4 PED ISOLATOR	∅ 8 PED ISOLATOR	DC	ST	
U	∅ 5	∅ 5	∅ 6	∅ 6	∅ 8	∅ 8	∅ 8	SYS. DET. S3	SYS. DET. S4	∅ 8	∅ 8	∅ 8	∅ 8	
L	NOT USED	∅ 5	∅ 6	NOT USED	∅ 8	∅ 8	NOT USED	NOT USED	NOT USED	∅ 8	∅ 8	∅ 8	∅ 8	

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

FS = FLASH SENSE
 ST = STOP TIME



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 ¹	TB2-1,2	I1U	56	18	1	1	Y	Y			
1B	TB2-5,6	I2U	39	1	2	1	Y	Y			
1C	TB2-7,8	I2L	43	5	12	1	Y	Y			15
2A	TB2-9,10	I3U	63	25	32	2	Y	Y			
2B	TB2-11,12	I3L	76	38	42	2	Y	Y			
4A	TB4-9,10	I6U	41	3	4	4	-	Y			
4B	TB4-11,12	I6L	45	7	14	4	-	Y			
4C	TB6-1,2	I7U	65	27	34	4	Y	Y	Y	2.0	5
4D	TB6-3,4	I7L	78	40	44	4	Y	Y	Y	2.0	5
4E	TB6-5,6	I8U	49	11	24	4	Y	Y			
* S5	TB4-5,6	I5U	58	20	3	SYS					
* S1	TB6-9,10	I9U	60	22	11	SYS					
* S2	TB6-11,12	I9L	62	24	13	SYS					
5A ²	TB3-1,2	J1U	55	17	5	5	Y	Y			
5B	TB3-5,6	J2U	40	2	6	5	Y	Y			
5C	TB3-7,8	J2L	44	6	16	5	Y	Y			15
6A	TB3-9,10	J3U	64	26	36	6	Y	Y			
6B	TB3-11,12	J3L	77	39	46	6	Y	Y			
6C	TB5-1,2	J4U	48	10	26	6	Y	Y			
8A	TB5-9,10	J6U	42	4	8	8	-	Y			
8B	TB5-11,12	J6L	46	8	18	8	-	Y			
8C	TB7-1,2	J7U	66	28	38	8	Y	Y	Y	2.0	5
8D	TB7-3,4	J7L	79	41	48	8	Y	Y	Y	2.0	5
8E	TB7-5,6	J8U	50	12	28	8	Y	Y			
* S3	TB7-9,10	J9U	59	21	15	SYS					
* S4	TB7-11,12	J9L	61	23	17	SYS					
PED PUSH BUTTONS											
P21,P22	TB8-4,6	I12U	67	29	PED 2	2 PED					
P41,P42	TB8-5,6	I12L	69	31	PED 4	4 PED					
P61,P62	TB8-7,9	I13U	68	30	PED 6	6 PED					
P81,P82	TB8-8,9	I13L	70	32	PED 8	8 PED					

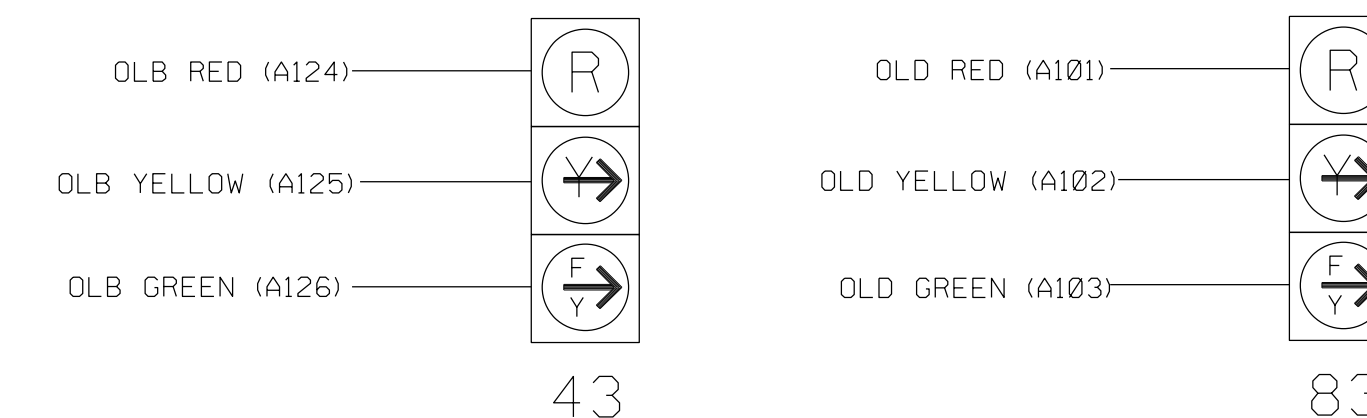
NOTE:
 INSTALL DC ISOLATORS IN INPUT FILE SLOTS 112 AND 113.

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

- 1 Remove jumper from I1-W to J5-W, on rear of input file.
- 2 Remove jumper from J1-W to I4-W, on rear of input file.

3 SECTION FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0049
 DESIGNED: June 2014
 SEALED: December 19, 2014
 REVISED:

Signal Upgrade - Final Design (Electrical Detail Sheet 1 of 2)

ELECTRICAL AND PROGRAMMING DETAILS FOR: 	US 17 Business (Market Street) at SR 1175 (Kerr Avenue)		SEAL
	Division 03 New Hanover County	Wilmington	
	PLAN DATE: June 2014	REVIEWED BY: LM Moon	
	PREPARED BY: AJ Davis	REVIEWED BY: MB Toth	
REVISIONS	INIT. DATE	DATE	DATE
1616 EAST MILLBROOK ROAD, SUITE 310 RALEIGH, NORTH CAROLINA 27609 (919) 876-6888 NCBES #F-0326			12/19/2014 DATE