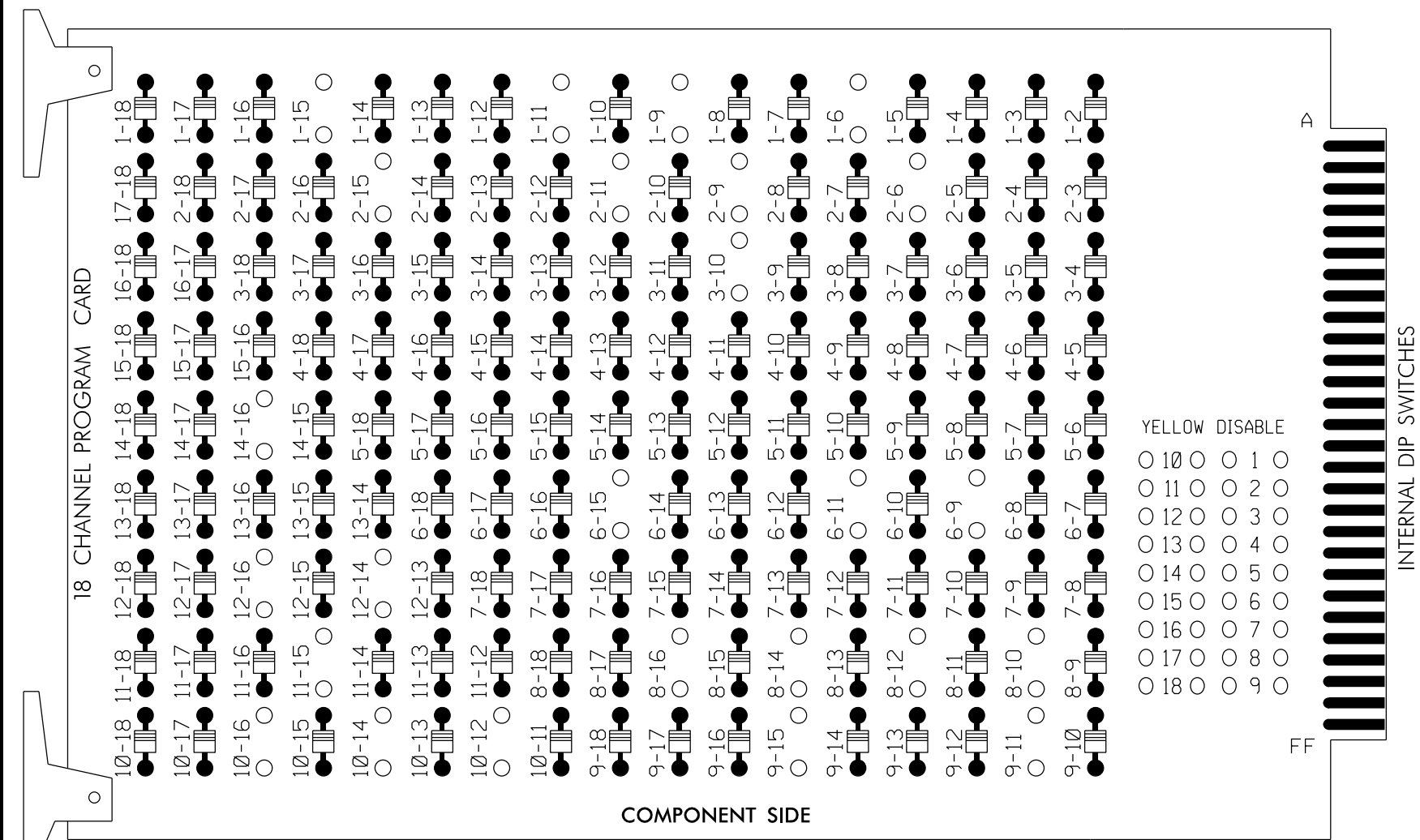


EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

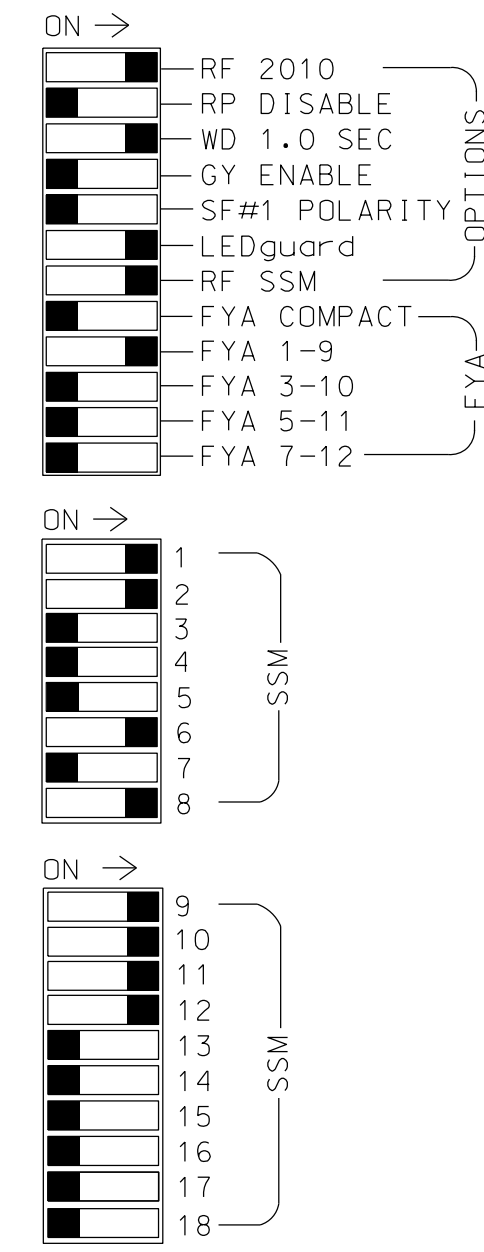
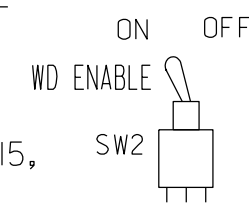
REMOVE DIODE JUMPERS 1-6, 1-9, 1-11, 1-15, 2-6, 2-9, 2-11, 2-15, 3-10, 6-9, 6-11, 6-15, 8-10, 8-12, 8-14, 8-16, 9-11, 9-15, 10-12, 10-14, 10-16, 11-15, 12-14, 12-16, AND 14-16.



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.
- Connect serial cable from conflict monitor to comm. part 1 of 2070 controller. Ensure conflict monitor communicates with 2070.



■ = 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 4 and 8 for Start Up In Green.
- Program phases 4, 6 and 8 for 'STARTUP PED CALL'.
- Program phases 4 and 8 for Yellow Flash, and overlaps 1 and 2 as Wag Overlaps.
- The cabinet and controller are part of the High Point Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070E
 CABINET.....332 /W/ AUX
 SOFTWARE.....ECONOLITE OASIS (V.3.03.32E OR LATEST APPROVED)
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S1,S2,S4,**S6,S8,S9,S11,**S12,
 AUX S1,AUX S2,AUX S4,AUX S5.
 PHASES USED.....1,2,*3,4,4PED,6,6PED,8,8PED.
 OVERLAP "A".....1+2
 OVERLAP "B".....3+8
 OVERLAP "C".....6
 OVERLAP "D".....4
 OVERLAP "P".....1,2,4,6,8.
 *PHASE USED ONLY DURING RR PREEMPT SEQUENCE
 **PED Yellow used for School Flashers

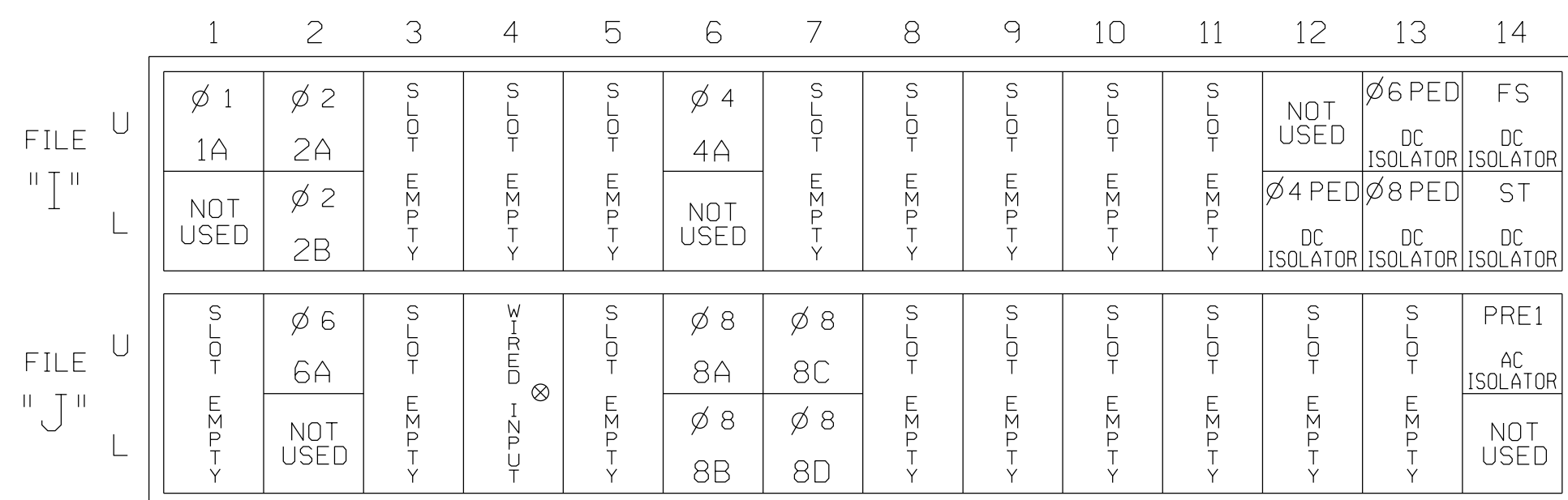
SIGNAL HEAD HOOK-UP CHART

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 FLASH OUTPUT	5	6	6 PED	7	8	8 PED FLASH OUTPUT	OLA	OLB	SPARE	OLC	OLD	SPARE	
SIGNAL HEAD NO.	11	22,23	NU	81	NC	P41, P42, 101, 103	NU	61,62	P61, P62	NU	83,84	P81, P82, 102, 104	11	81	82	NU	21	41,42	NU
RED		128						134			107			A124	A124			A101	
YELLOW	*	129		*				135			108			A125	A125			A102	
GREEN		130						136			109			A126	A126			A103	
RED ARROW														A121				A114	
YELLOW ARROW														A122				A115	
FLASHING YELLOW ARROW														A123				A116	
GREEN ARROW	127			118															
PED YELLOW						104			119		110								
						** 105					** 111								
						106			121		112								

NC = No connection but phase is used for timing.
 NU = Not Used
 * Denotes install load resistor. See load resistor installation detail this sheet.
 ** S6-Y and S12-Y are used for the School Flasher. See sheet 4 for wiring and programming details.
 ★ See pictorial of head wiring in detail below.

INPUT FILE POSITION LAYOUT

(front view)



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

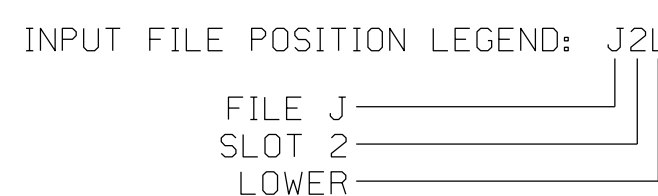
FS = FLASH SENSE
 ST = STOP TIME
 PRE = PREEMPT

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			15
	-	J4U	48	10	26	6	Y	Y			
2A	TB2-5,6	I2U	39	1	2	2	Y	Y			
2B	TB2-7,8	I2L	43	5	12	2	Y	Y			
4A	TB4-9,10	I6U	41	3	4	4	Y	Y			
6A	TB3-5,6	J2U	40	2	6	6	Y	Y			
8A	TB5-9,10	J6U	42	4	8	8	Y	Y			5
8B	TB5-11,12	J6L	46	8	18	8	Y	Y			5
8C	TB7-1,2	J7U	66	28	38	8	Y	Y			5
8D	TB7-3,4	J7L	79	41	48	8	Y	Y			
PED PUSH BUTTONS											
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				

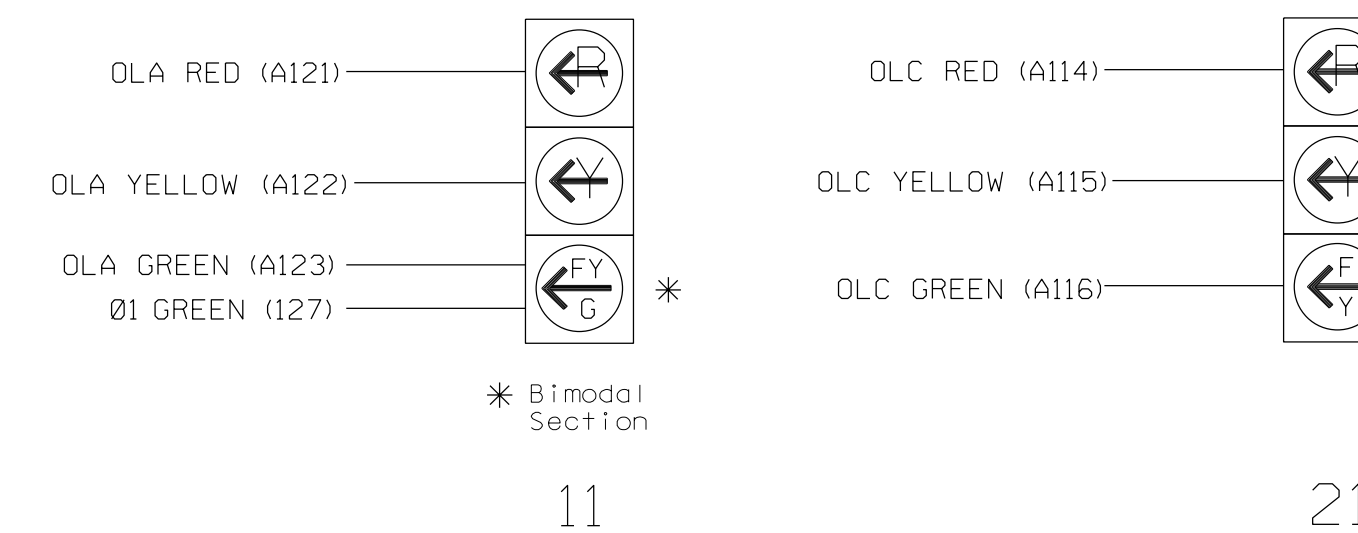
NOTE:
 INSTALL DC ISOLATORS IN INPUT FILE SLOTS 112 AND 113.

¹Add jumper from 11-F to J4-W on rear input file.



FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



NOTE

- The sequence display for signal head 11 requires special logic programming. See sheet 2 of 3 for programming instructions.

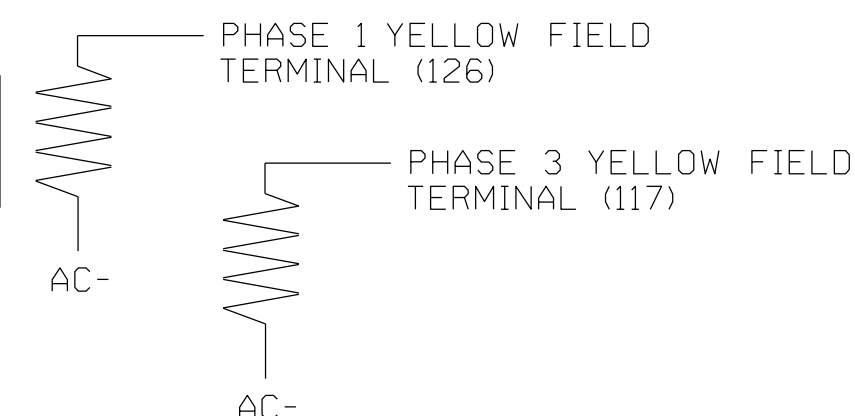
COUNTDOWN PEDESTRIAN SIGNAL OPERATION

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.

LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown below)

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



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: HP0708
 DESIGNED: July 2014
 SEALED: June 5, 2015
 REVISED:

ATKINS 1616 EAST MILLBROOK ROAD, SUITE 310
 RALEIGH, NORTH CAROLINA 27609
 (919) 876-6888 NCEES #F-0326

ELECTRICAL DETAIL SHEET 1 OF 4

ELECTRICAL AND PROGRAMMING DETAILS FOR:
 Prepared for the Offices of:

 NORTH CAROLINA INTERNATIONAL CITY
 Department of Transportation
 515 Hamilton Street
 High Point, NC 27601

E. Washington Street / Gordon Street at N. Hoskins Street
 Division 07 Guilford County High Point

PLAN DATE: July 2014 REVIEWED BY: LM Moon
 PREPARED BY: NM Chapman REVIEWED BY: MB Toth

REVISIONS: INIT. DATE

DocuSigned by: **Melissa B. Toth** 6/5/2015
 SIGNATURE DATE
 SIG. INVENTORY NO. HP0708