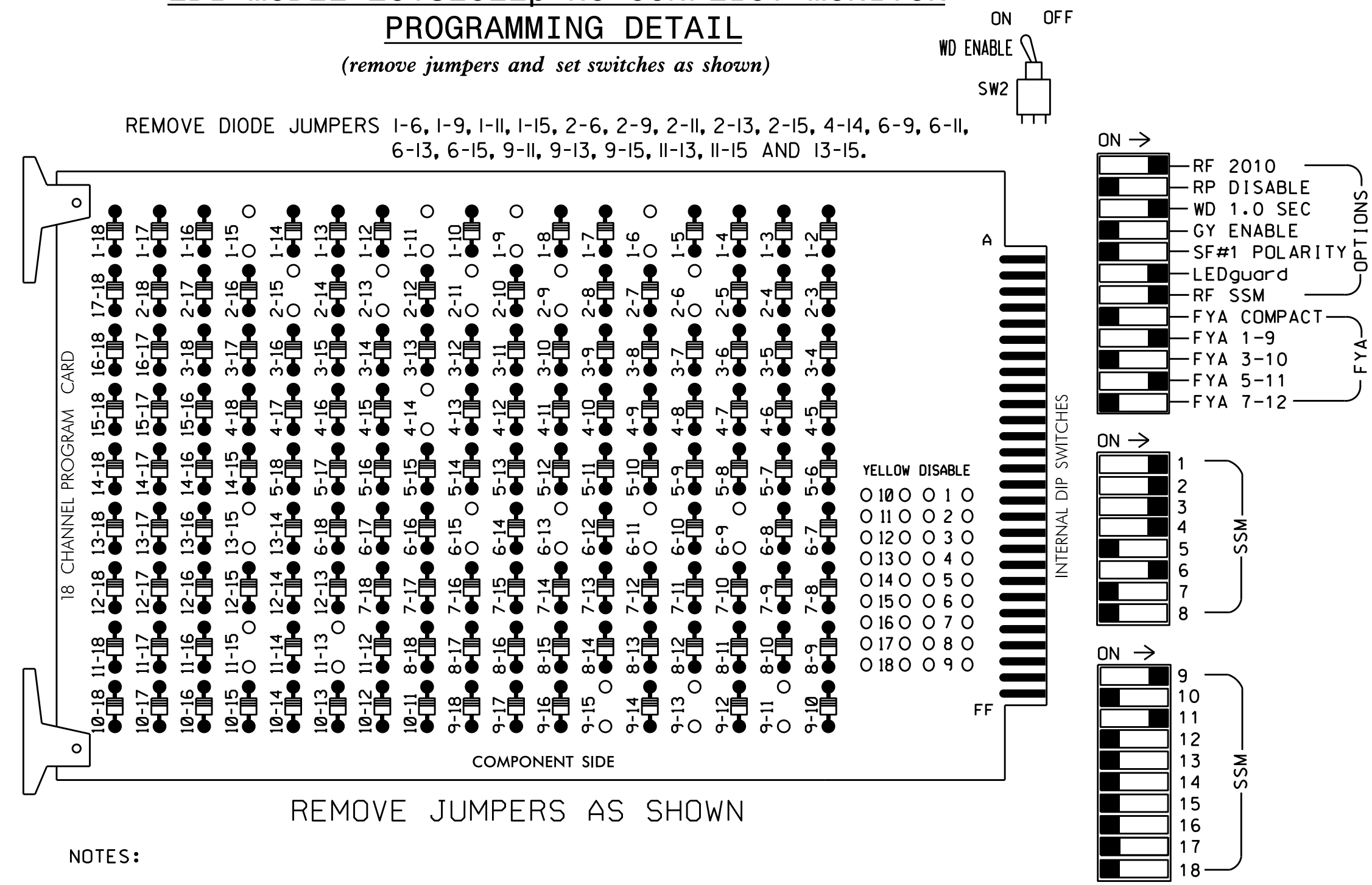


EDI MODEL 2018EClip-NC CONFLICT MONITOR PROGRAMMING DETAIL
(remove jumpers and set switches as shown)



- NOTES:**
- Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
 - 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.

- 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.
 - Enable Simultaneous Gap-Out for all phases.
 - Program phases 2 and 6 for Start Up In Green.
 - Program phases 2, 4 and 6 for 'STARTUP PED CALL'.
 - Program phases 2 and 6 for Yellow Flash, and overlap 1 as Wag Overlaps.
 - The cabinet and controller are part of the Asheville 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,S4,S5,S6,S8,S9,AUX S1,
 AUX S4
 PHASES USED.....1,2,2 PED,3,4,4 PED,6,6 PED
 OVERLAP "A".....1+2
 OVERLAP "B".....NOT USED
 OVERLAP "C".....6
 OVERLAP "D".....NOT USED

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	42	22,23	P21, P22	31	32	41	42	P41, P42	NU	61,62	P61, P62	NU	NU	NU	11	21	NU
RED	*	128	116	116	101	101			134									
YELLOW		129	117	117	102	102			135									
GREEN		130	118	118	103	103			136									
RED ARROW													A121				A114	
YELLOW ARROW		126											A122				A115	
FLASHING YELLOW ARROW													A123				A116	
GREEN ARROW	127	127		118	103													
Hand				113				104		119								
Foot				115				106		121								

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)

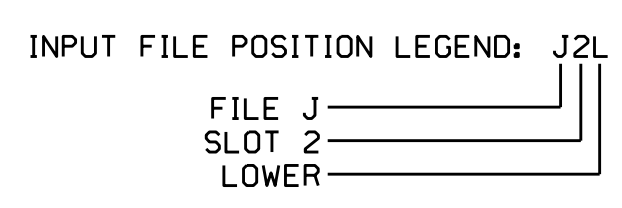
FILE U	1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE I	∅ 1	∅ 1	∅ 2	∅ 2	∅ 3	∅ 3	∅ 4	∅ 4	SYS. DET. S1	∅ 2 PED	∅ 6 PED	FS	DC ISOLATOR	DC ISOLATOR
FILE U	NOT USED	NOT USED	∅ 2	∅ 2	∅ 3	∅ 3	NOT USED	NOT USED	SYS. DET. S2	∅ 4 PED	NOT USED	ST	DC ISOLATOR	DC ISOLATOR
FILE J	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	∅ 6	SYS. DET. S3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

EX.: 1A, 2A, ETC. = LOOP NO.'S
 FS = FLASH SENSE
 ST = STOP TIME
 ⊗ Wired Input - Do not populate slot with detector card

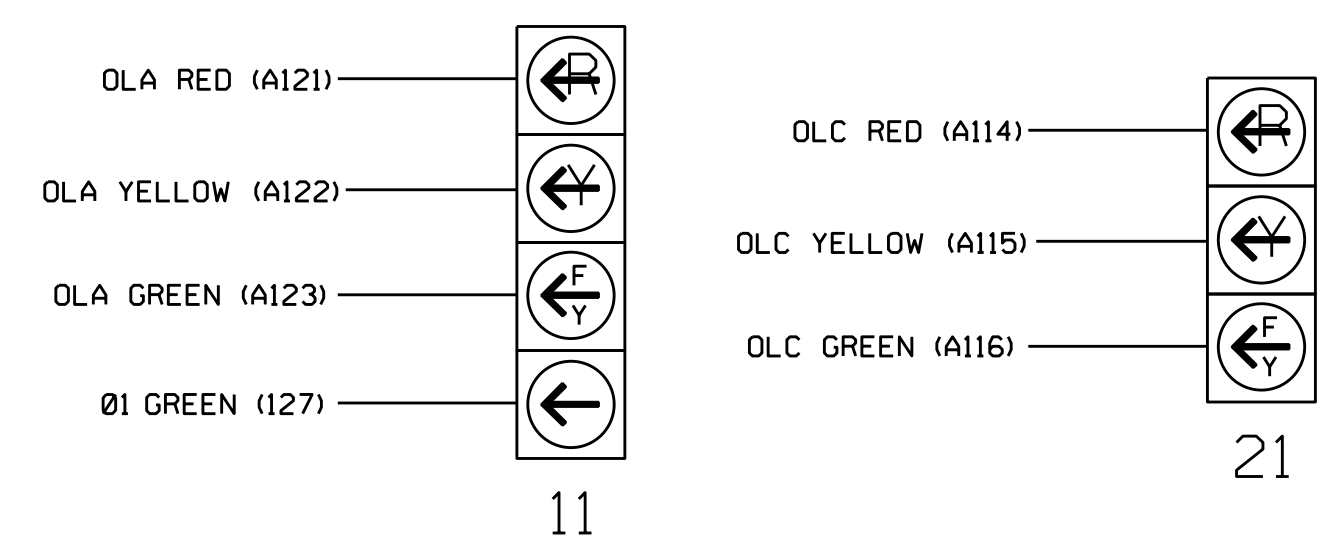
INPUT FILE CONNECTION & PROGRAMMING CHART

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 ¹	TB2-1,2	I1U	56	18	1	1	Y	Y			15
1B	TB2-5,6	I2U	39	10	26	6	Y	Y			15
2A,2B	TB2-9,10	I3U	63	25	32	2	Y	Y			
2C	TB2-11,12	I3L	76	38	42	2	Y	Y			
3A	TB4-9,10	I6U	41	3	4	3	Y	Y			3
3B	TB4-11,12	I6L	45	7	14	3	Y	Y			15
4A	TB6-1,2	I7U	65	27	34	4	Y	Y			3
* S1	TB6-9,10	I9U	60	22	11	SYS					
* S2	TB6-11,12	I9L	62	24	13	SYS					
6A,6B	TB3-5,6	J2U	40	2	6	6	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					

¹Add jumper from I1-W to J4-W. on rear of input file.
 * System detector only. Remove the vehicle phase assigned to this detector in the default programming.



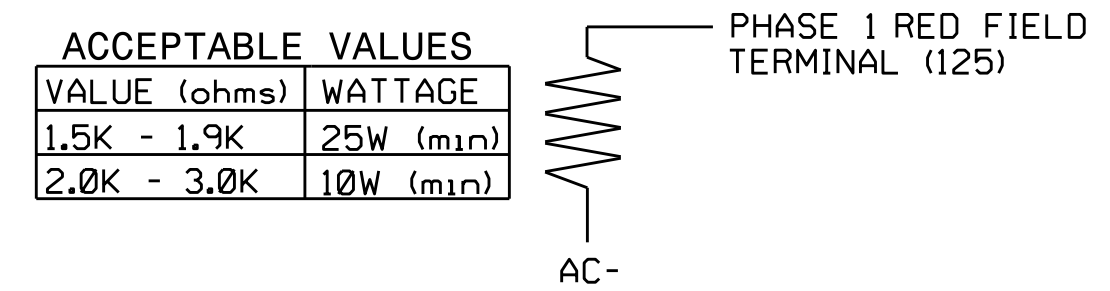
FYA SIGNAL WIRING DETAIL
(wire signal heads as shown)



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

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 13-0836
 DESIGNED: July 2016
 SEALED: 10/27/2016
 REVISED:

LOAD RESISTOR INSTALLATION DETAIL
(install resistor as shown 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.

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
 Signal Management Section
 750 N. Greenfield Pkwy, Garner, NC 27529

US 74A (S. Tunnel Rd.)
 at
 Center Drive/Whole Foods Entrance

Division 13 Buncombe County Asheville
 PLAN DATE: October 2016 REVIEWED BY: BAS
 PREPARED BY: A. F. Aslami REVIEWED BY:

REVISIONS INIT. DATE

DocuSigned by:
 Ashley M. Little 11/4/2016
 0021EFD4F9341F DATE

SIG. INVENTORY NO. 13-0836

09-2016-2016-12-14
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