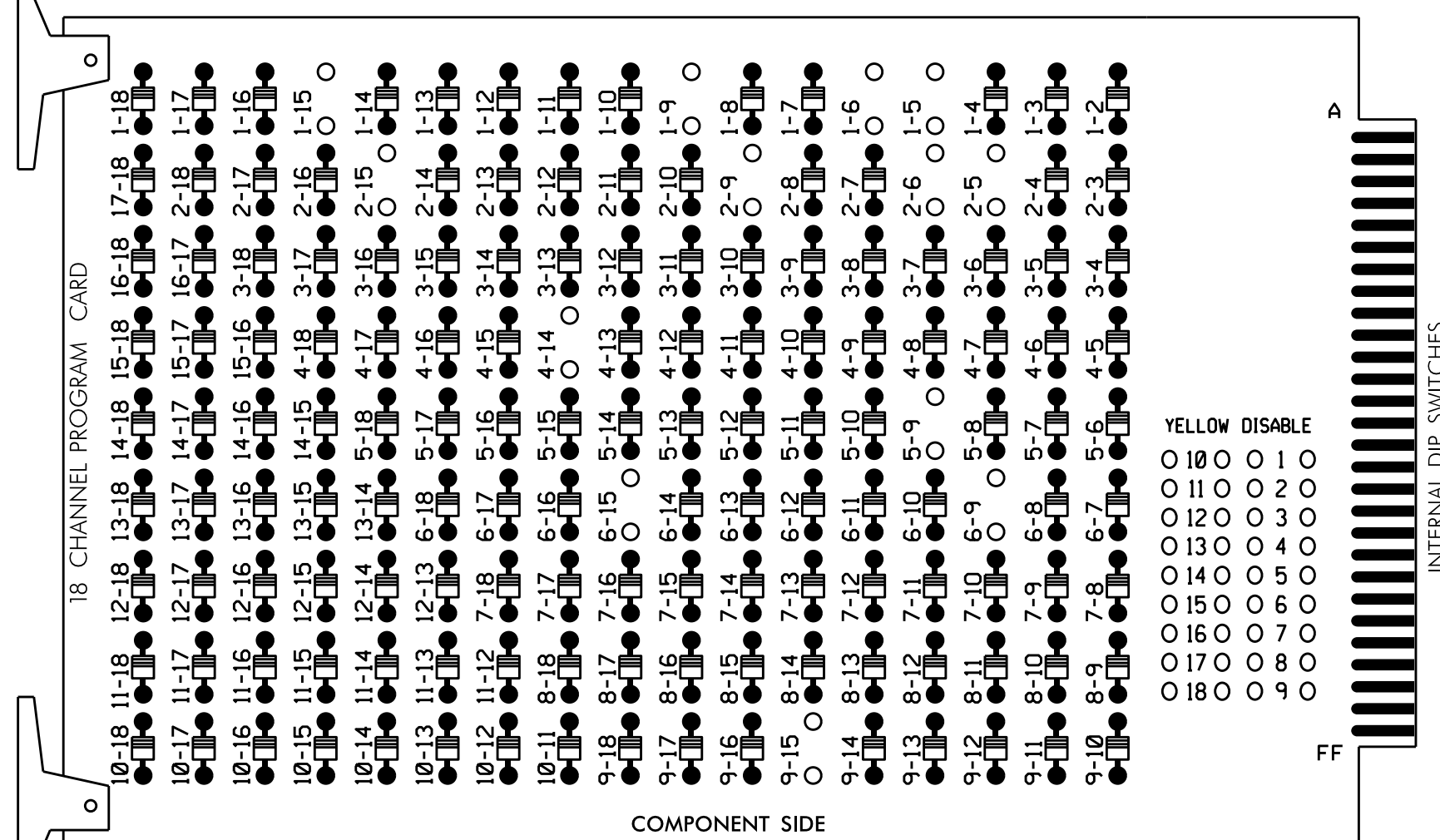


EDI MODEL 2018EClip-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

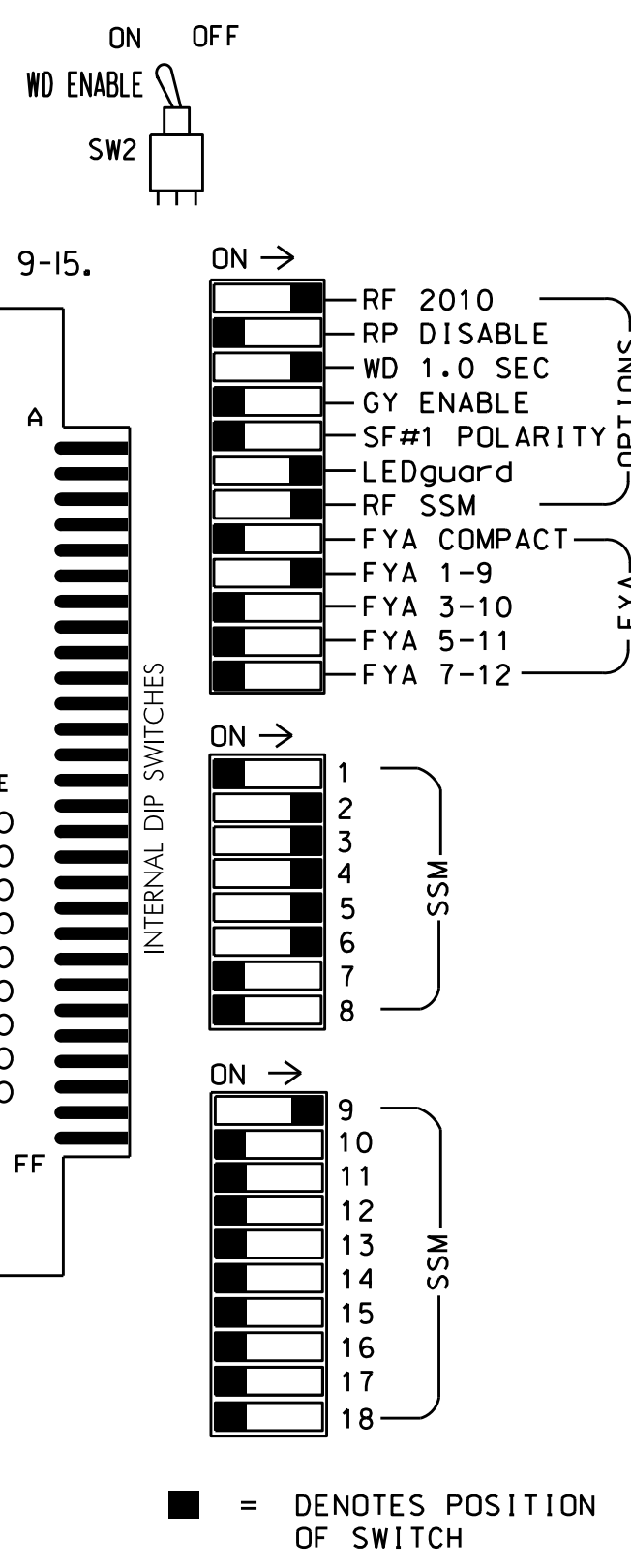
REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-15, 2-5, 2-6, 2-9, 2-15, 4-14, 5-9, 6-9, 6-15, and 9-15.



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. Integrate monitor with Ethernet network in cabinet.



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. Enable Simultaneous Gap-Out for all phases.
3. Program phases 2 and 6 for Variable Initial and Gap Reduction.
4. Program phases 2 and 6 for Start Up In Green.
5. Program phases 4 and 6 for 'STARTUP PED CALL'.
6. Program phases 2 and 6 for Yellow Flash, and overlap 1 as Wag Overlaps.
7. 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,S4,S5,S6,S7,S8,S9,AUX S1
 PHASES USED.....1,2,3,4,4PED,5,6,6PED
 OVERLAP "A".....1+2
 OVERLAP "B".....NOT USED
 OVERLAP "C".....NOT USED
 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	21,22	NU	31	32	41	42	P41, P42	51	61,62	P61, P62	NU	NU	NU	11	NU	NU	NU	
RED		128		116	116	101	101			134									
YELLOW	*	129		117	117	102	102			135									
GREEN		130		118	118	103	103			136									
RED ARROW										131								A121	
YELLOW ARROW										132									A122
FLASHING YELLOW ARROW																			A123
GREEN ARROW	127					103			133										
Hand icon								104					119						
Person icon								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 "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	∅ 1	∅ 2	∅ 3	∅ 4	∅ 4	∅ 3	∅ 4	∅ 4	∅ 3	∅ 4	∅ 4	∅ 3	∅ 4	∅ 4
L	1A	2A	3A	4A	4C	3A	4A	4C	3A	4A	4C	3A	4A	4C
U	NOT USED	∅ 2	∅ 3	∅ 4	∅ 4	∅ 3	∅ 4	∅ 4	∅ 3	∅ 4	∅ 4	∅ 3	∅ 4	∅ 4
L	2B	3B	4B	4C	3B	4B	4C	3B	4B	4C	3B	4B	4C	3B
U	∅ 5	∅ 6	∅ 7	∅ 8	∅ 8	∅ 7	∅ 8	∅ 8	∅ 7	∅ 8	∅ 8	∅ 7	∅ 8	∅ 8
L	5A	6A	7A	8A	8C	7A	8A	8C	7A	8A	8C	7A	8A	8C
U	NOT USED	∅ 6	∅ 7	∅ 8	∅ 8	∅ 7	∅ 8	∅ 8	∅ 7	∅ 8	∅ 8	∅ 7	∅ 8	∅ 8
L	6B	7B	8B	8C	7B	8B	8C	7B	8B	8C	7B	8B	8C	7B

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
2A	TB2-5,6	I2U	39	1	2	2	Y	Y	Y		3
2B	TB2-7,8	I2L	43	5	12	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			
4A	TB6-1,2	I7U	65	27	34	4	Y	Y			3
4B	TB6-3,4	I7L	78	40	44	4	Y	Y			
4C	TB6-5,6	I8U	49	11	24	4	Y	Y			15
5A	TB3-1,2	J1U	55	17	5	5	Y	Y			3
6A	TB3-5,6	J2U	40	2	6	6	Y	Y			
6B	TB3-7,8	J2L	44	6	16	6	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					

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

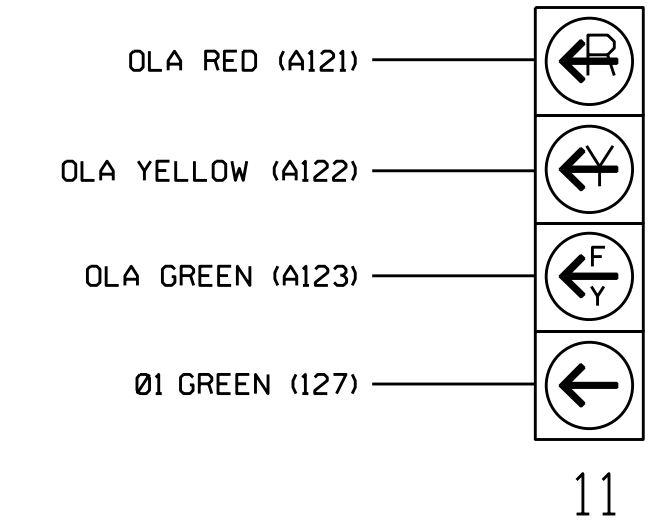
¹Add jumper from I1-W to J4-W, on rear of input file.

INPUT FILE POSITION LEGEND: J2L



FYA SIGNAL WIRING DETAIL

(wire signal head as shown)



NOTE

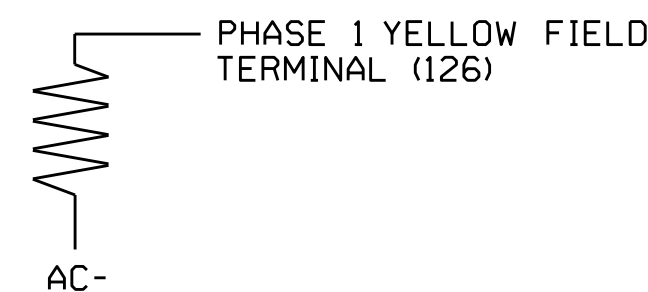
The sequence display for signal head 11 requires special logic programming. See sheet 2 for programming instructions.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 13-0366
 DESIGNED: May 2016
 SEALED: 8/9/2016
 REVISED: N/A

LOAD RESISTOR INSTALLATION DETAIL

(install resistor as shown below)

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



Electrical Detail - Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared In the Offices of:
 TRANSPORTATION MOBILITY AND SAFETY ADMINISTRATION
 FEDERAL BUREAU OF INVESTIGATION
 SIGNAL MANAGEMENT SECTION
 750 N. Greenfield Pkwy, Garner, NC 27529

DETAILS FOR: US 70 (Tunnel Road) at SR 2002 (Riceville Road)/ Shopping Center

Division 13 Buncombe County Asheville

PLAN DATE: July 2016 REVIEWED BY: BAS

PREPARED BY: S. Armstrong REVIEWED BY:

REVISIONS INIT. DATE

DocuSigned by: Keith M. Mims 8/22/2016

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER KEITH M. MIMS SEAL 036880

SIG. INVENTORY NO. 13-0366

10-100-2016 08-15
 S:\IT\SAS\13-Signal\work\hgr\cdp\sig\Map\hgr\strong\130366_sml.elec.xxx.dgn
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