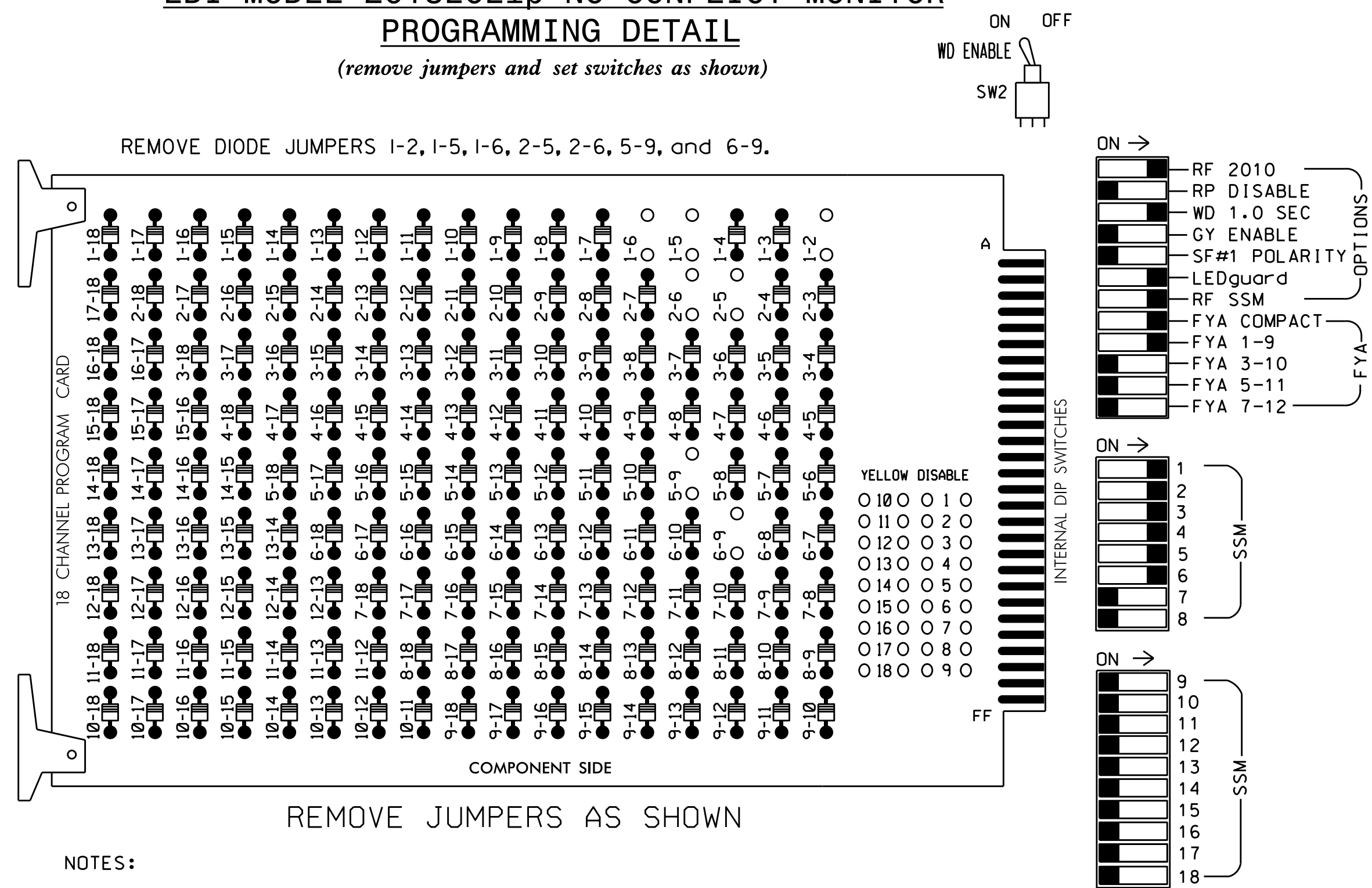


EDI MODEL 2018EClip-NC CONFLICT MONITOR

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.
- Special cabinet wiring is required to utilize FYA COMPACT mode. See Ped Yellow Conflict Monitor Wiring Detail on this sheet.

■ = 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.
- Enable Simultaneous Gap-Out for all phases.
- Program controller to start up in phase 2 Green and 6 Green.
- The cabinet and controller are part of the Fayetteville Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070E  
 CABINET.....336  
 SOFTWARE.....ECONOLITE ASC/3-2070  
 CABINET MOUNT.....POLE  
 OUTPUT FILE POSITIONS...12  
 LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S7,S8  
 PHASES USED.....1,2,3,4,5,6  
 OVERLAP A.....\*  
 OVERLAP B.....NOT USED  
 OVERLAP C.....NOT USED  
 OVERLAP D.....NOT USED

\* See ASC/3-2070 Overlap Programming Detail on sheet 2.

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16
PHASE	OLA	2	1 GRN	2 PED	3	4	4 PED	5	6	6 PED	7	8
SIGNAL HEAD NO.	11	21,22	11	NU	31	32	41	42	NU	51	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	125									131		
YELLOW ARROW	126									132		
FLASHING YELLOW ARROW	127											
GREEN ARROW			114	118	103			133				

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
∅ 1	1A	∅ 2	2A,2B	∅ 3	3A	∅ 4	4A	∅ 5	5A	∅ 6	6A,6B	SYS. DET. S2A	S	S	FS
NOT USED		NOT USED		NOT USED		∅ 4	4B	NOT USED		NOT USED		SYS. DET. S2B	S	S	DC ISOLATOR
													S	S	ST
													S	S	DC ISOLATOR

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

FS = FLASH SENSE  
 ST = STOP TIME

PED YELLOW CONFLICT MONITOR WIRING DETAIL

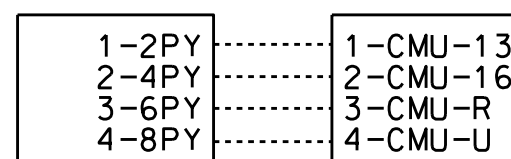
(make cabinet wiring changes as shown below)

In order to use FYA COMPACT mode on the 2018EClip-NC Monitor, the cabinet must be wired such that the (unused) Ped Yellow load switch outputs are wired to the conflict monitor as follows: From 2 PY (field term. 114) to Channel 9 Green (monitor pin 13).

- Follow the instructions below to make the appropriate connections:
- STEP 1: Fold down rear panel of output file.
- STEP 2: Find unused wiring harness from conflict monitor card edge connector (which should be tied and bundled together).
- STEP 3: Find the conductors that correspond to the following conflict monitor card edge pins and solder wire to the appropriate terminal on the rear of the output file as shown below:

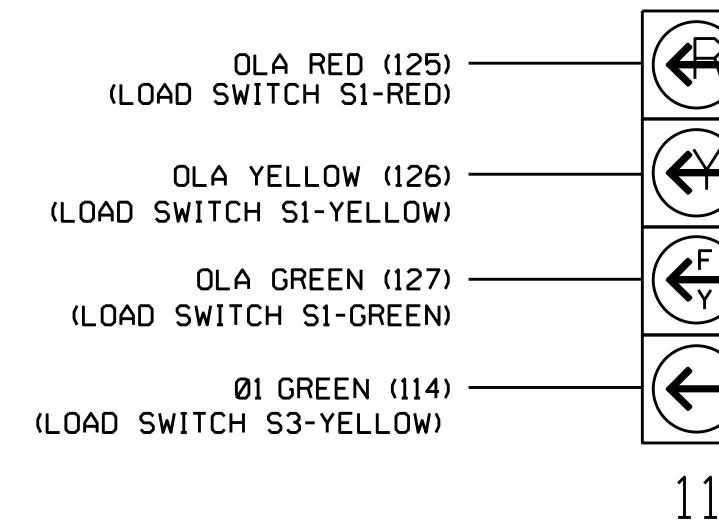
CMU-13 \_\_\_\_\_ 2PY (term. 114)

NOTE: Some cabinet manufacturers use keyed connectors to accomplish this wiring configuration. If connectors are used, fold down the rear panel of the output file and find the set of 3 keyed connectors and connect them as shown below:



FYA SIGNAL WIRING DETAIL

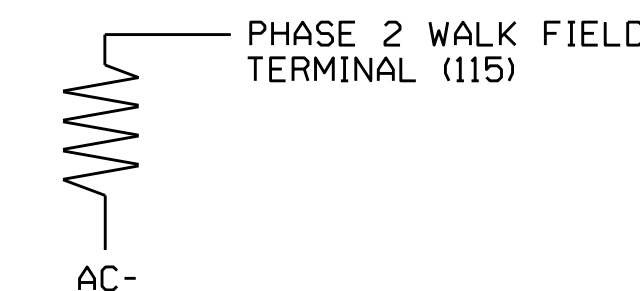
(wire signal head as shown)



LOAD RESISTOR INSTALLATION DETAIL

(install resistor as shown)

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



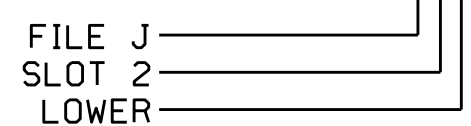
INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND TIME	DELAY TIME	DETECTOR TYPE
1A <sup>1</sup>	-	TB21-1,2	11U	56	1	1	YES	15	S
		-	-	59	15	6	YES		S
2A,2B	TB21-3,4	12U	39	2	2	YES		S	
3A	TB21-5,6	13U	58	3	3	YES	10	S	
4A	TB21-7,8	14U	41	4	4	YES	3	S	
4B	TB23-7,8	14L	45	14	4	YES	15	S	
5A	TB21-9,10	15U	55	5	5	YES		S	
6A,6B	TB21-11,12	16U	40	6	6	YES		S	
* S2A	TB21-13,14	17U	57	7	SYS	NO		N	
* S2B	TB23-13,14	17L	50	28	SYS	NO		N	

<sup>1</sup>Add jumper from 11-F to 11-SP, on rear of input file.

\* System detector only. Remove any assigned vehicle phase.

INPUT FILE POSITION LEGEND: J2L



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 06-0008  
 DESIGNED: June 2016  
 SEALED: 8/31/2016  
 REVISED: N/A

Electrical Detail - Sheet 1 of 2

SR 1404 (Hay Street/ Morganton Road)/Ft. Bragg Road at Highland Ave. and Oakridge Ave.

Division 6 Cumberland County Fayetteville

PLAN DATE: August 2016 REVIEWED BY: BAS

PREPARED BY: S. Armstrong REVIEWED BY:

REVISIONS INIT. DATE

750 N. Greenfield Pkwy, Garner, NC 27529

SEAL  
 Keith M. Mims  
 PROFESSIONAL ENGINEER  
 036880  
 9/1/2016  
 SIG. INVENTORY NO. 06-0008

01-SEP-2016 13:23 C:\PITS\SSM\15-SIGNAL\work\hgr\oups\g\_Morph\msfrmpg060008\_sml.ele.xxx.dgn somstron