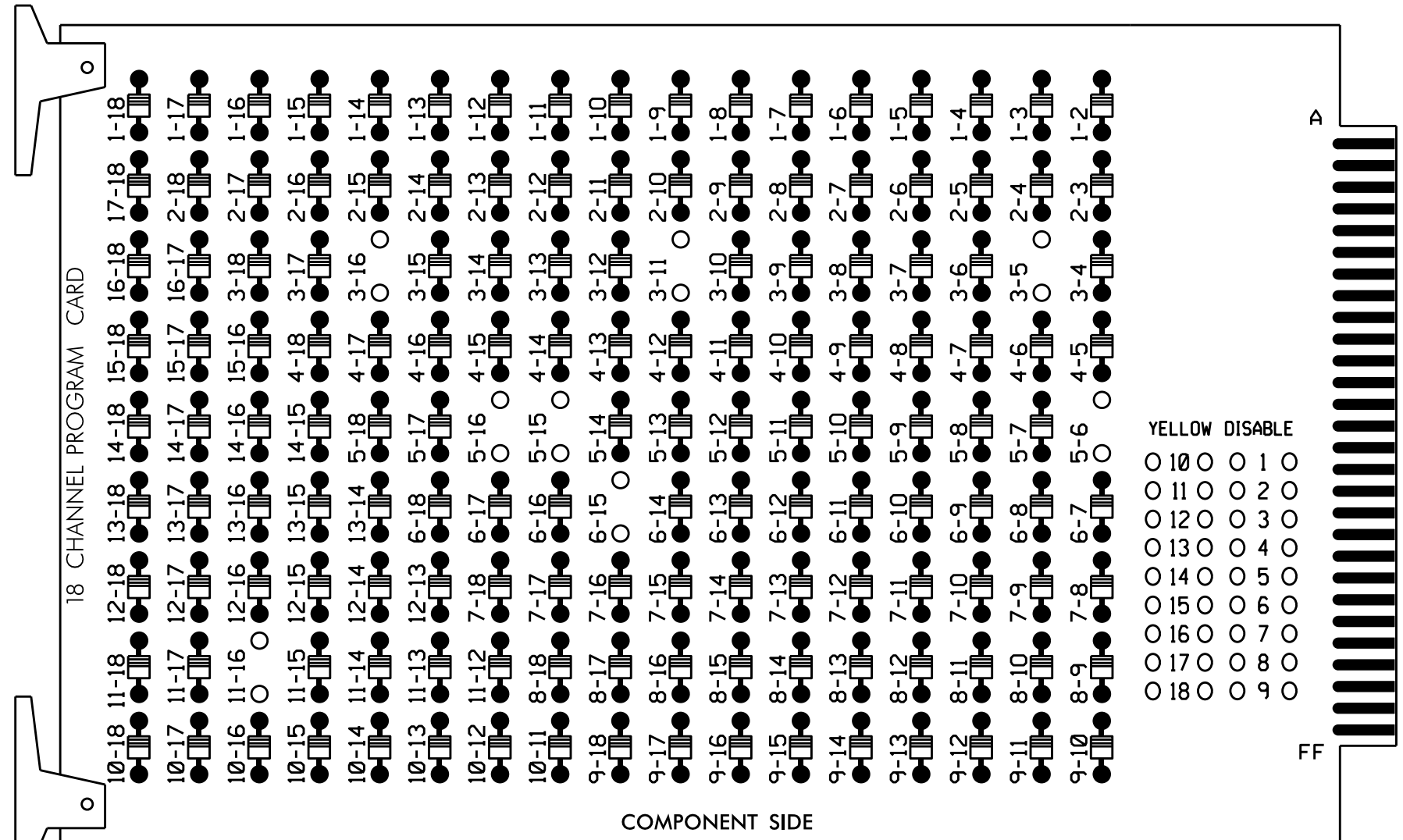


EDI MODEL 2018ECLip-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

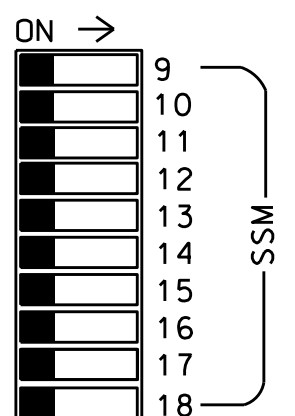
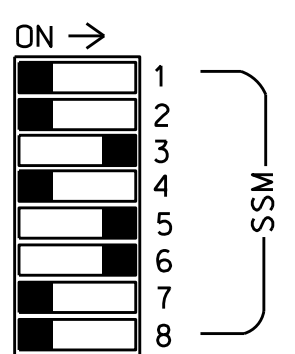
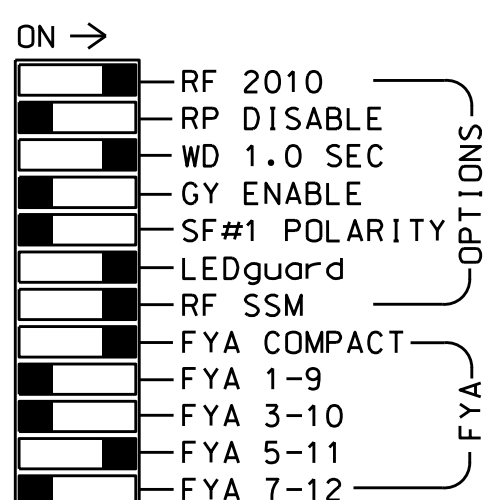
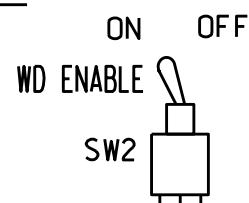
REMOVE DIODE JUMPERS 3-5, 3-11, 3-16, 5-6, 5-15, 5-16, 6-15, and 11-16.



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.
- 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 phase 6 for volume density operation.
- Program controller to start up in phase 6 Walk.
- Program phase 2 for Red flash.
- 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.....S4,S7,S8,S9,S12
 PHASES USED.....3,3PED,6,6PED
 OVERLAP A.....NOT USED
 OVERLAP B.....NOT USED
 OVERLAP C.....*
 OVERLAP D.....NOT USED
 OVERLAP M.....3

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

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 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	11	15	7	8	16
PHASE	1	2	2 PED	3	4	4 PED	OLC	6	OLM	6 PED	7	8	3 PED
SIGNAL HEAD NO.	NU	NU	NU	32,33	NU	NU	31	61,62	31	P61, P62	NU	NU	P31, P32
RED				116				134					
YELLOW								135					
GREEN								136					
RED ARROW								131					
YELLOW ARROW				117				132					
FLASHING YELLOW ARROW								133					
PED YELLOW									119				110
GREEN ARROW				118				120					*
									121				112

NU = Not Used
 * See pictorial of head wiring in detail below.
 * Denotes install load resistor. See load resistor installation detail below.

INPUT FILE POSITION LAYOUT

(front view)

FILE POSITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	Ø3	Ø3	3A	Ø3	Ø6/SYS	Ø6/S6A	Ø6/SYS	Ø6/S6B	Ø6/PED	FS	DC ISOLATOR	DC ISOLATOR	DC ISOLATOR	DC ISOLATOR
L	Ø3	Ø3	3B	Ø6/SYS	Ø6/S6B	Ø3/PED	DC ISOLATOR	DC ISOLATOR	DC ISOLATOR	DC ISOLATOR	DC ISOLATOR	DC ISOLATOR	DC ISOLATOR	DC ISOLATOR

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

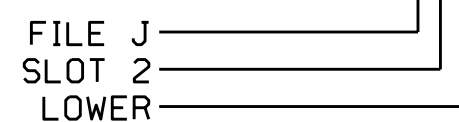
FS = FLASH SENSE
 ST = STOP TIME

INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND TIME	DELAY TIME	DETECTOR TYPE
3A	TB21-5,6	I3U	58	3	3	YES		15	S
3B	TB23-5,6	I3L	49	24	3	YES		15	S
6A/S6A	TB21-11,12	I6U	40	6	6/SYS	YES			N
6B/S6B	TB23-11,12	I6L	44	16	6/SYS	YES			N

NOTE: INSTALL DC ISOLATOR IN INPUT FILE SLOT I13.

INPUT FILE POSITION LEGEND: J2L



PED YELLOW CONFLICT MONITOR WIRING DETAIL

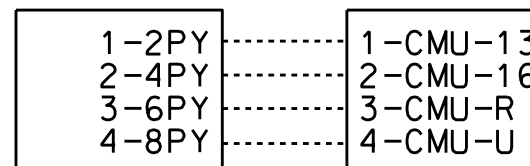
(make cabinet wiring changes as shown below)

In order to use FYA COMPACT mode with the 2018ECL-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 6 PY (field term. 120) to Channel 10 Green (monitor pin R).

- 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:

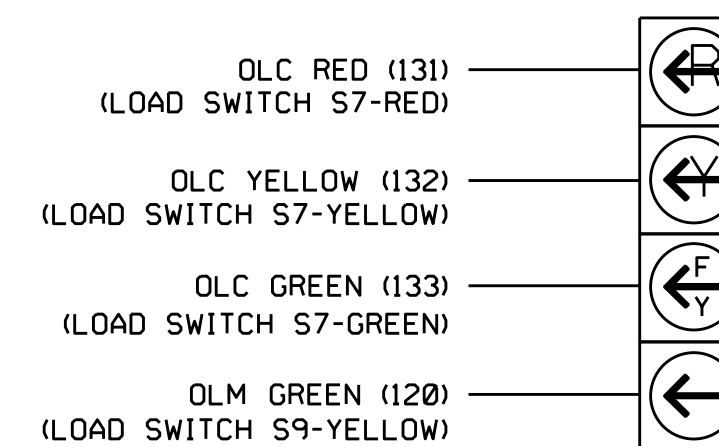
CMU-R ----- 6PY (term. 120)

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)

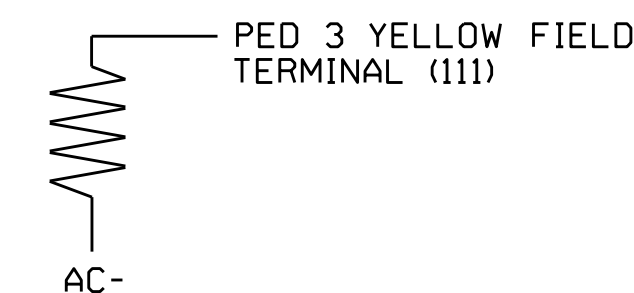


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LOAD RESISTOR INSTALLATION DETAIL

(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

Electrical and Programming Details for: SR 1403 (South Reilly Road) at Glen Allen Street

Division 6 Cumberland County Fayetteville

PLAN DATE: August 2016 REVIEWED BY:

PREPARED BY: S. Armstrong REVIEWED BY:

REVISIONS: INIT. DATE

750 N. Greenfield Pkwy, Garner, NC 27529

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 06-1337
 DESIGNED: March 2016
 SEALED: 8/31/2016
 REVISED: N/A

Seal: Keith M. Mims, Professional Engineer, No. 036880

DocuSigned by: Keith M. Mims 10/10/2016

SIG. INVENTORY NO. 06-1337

07-001-2016-08-18
 S:\115451\15-Signal\work\hgr\oups\g_Mark\mstron\061337_sml.ele.xxx.dgn
 S:\115451\15-Signal\work\hgr\oups\g_Mark\mstron\061337_sml.ele.xxx.dgn
 S:\115451\15-Signal\work\hgr\oups\g_Mark\mstron\061337_sml.ele.xxx.dgn