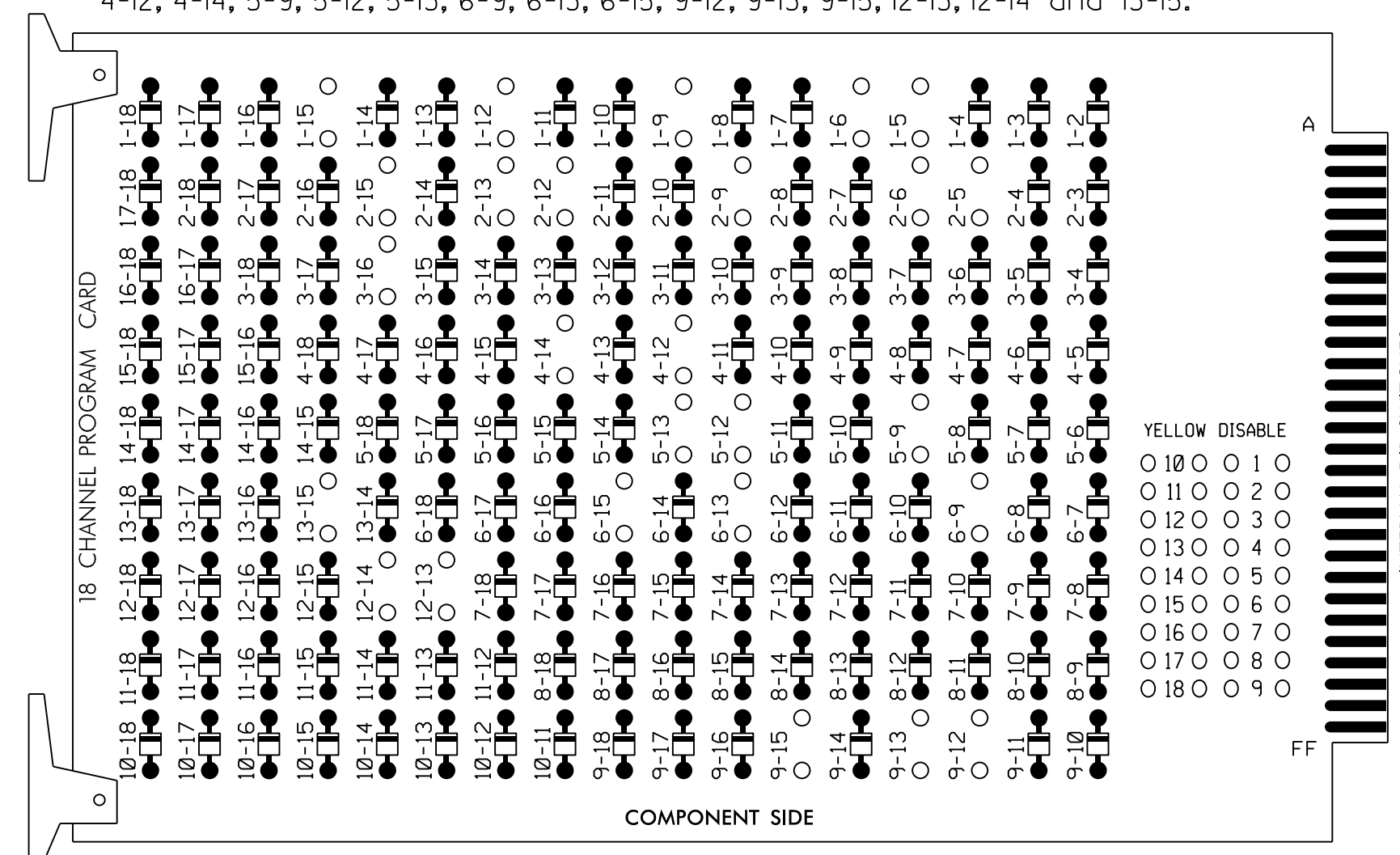


### EDI MODEL 2018ECLIP-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

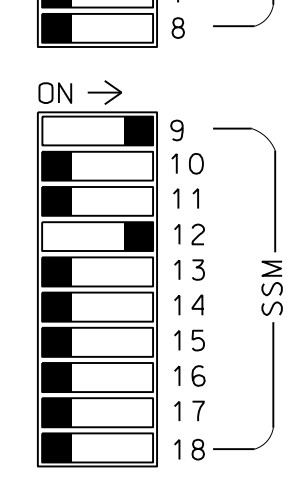
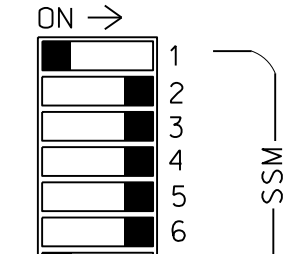
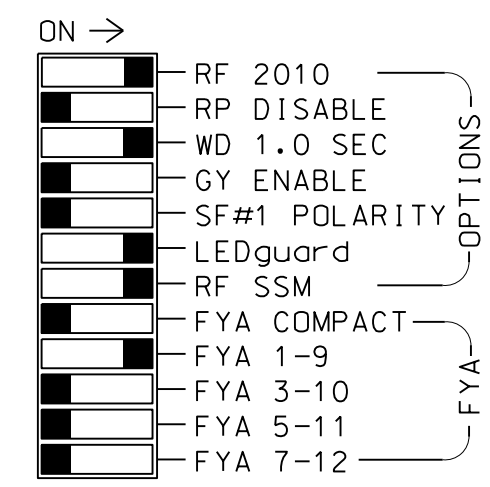
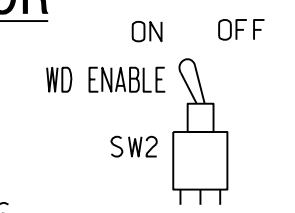
REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-12, 1-15, 2-5, 2-6, 2-9, 2-12, 2-13, 2-15, 3-16, 4-12, 4-14, 5-9, 5-12, 5-13, 6-9, 6-13, 6-15, 9-12, 9-13, 9-15, 12-13, 12-14 and 13-15.



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.



■ = 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.
- Return controller to Factory Defaults before programming per this electrical detail.
- Program controller to start up in phase 2 Walk and 6 Walk.
- If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.

### EQUIPMENT INFORMATION

CONTROLLER.....2070LX  
 CABINET.....332 W/AUX  
 SOFTWARE.....ECONOLITE ASC/3-2070  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE  
 LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6,S7,S8,S9,  
 S12,AUX S1,AUX S5  
 PHASES USED.....1,2,2PED,3,3PED,4,4PED,5,6,  
 6PED

OVERLAP "A".....\*  
 OVERLAP "B".....NOT USED  
 OVERLAP "C".....NOT USED  
 OVERLAP "D".....\*

\* See 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	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	3 PED	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	11	21,22	P21, P22	31	32	41	42	62	P41, P42	51,52	61,63	P61, P62	11	11	11	11	43,44	11
RED		128		116	116		101				134							A101
YELLOW	*	129		117	117		102				135							
GREEN		130		118	118		103				136							
RED ARROW							101				131							A121
YELLOW ARROW							102		102	132								A102
FLASHING YELLOW ARROW																		A123
GREEN ARROW	127			118	103	103	103	133										A103
Hand			113					104			119		110					
Walking			115					106			121		112					

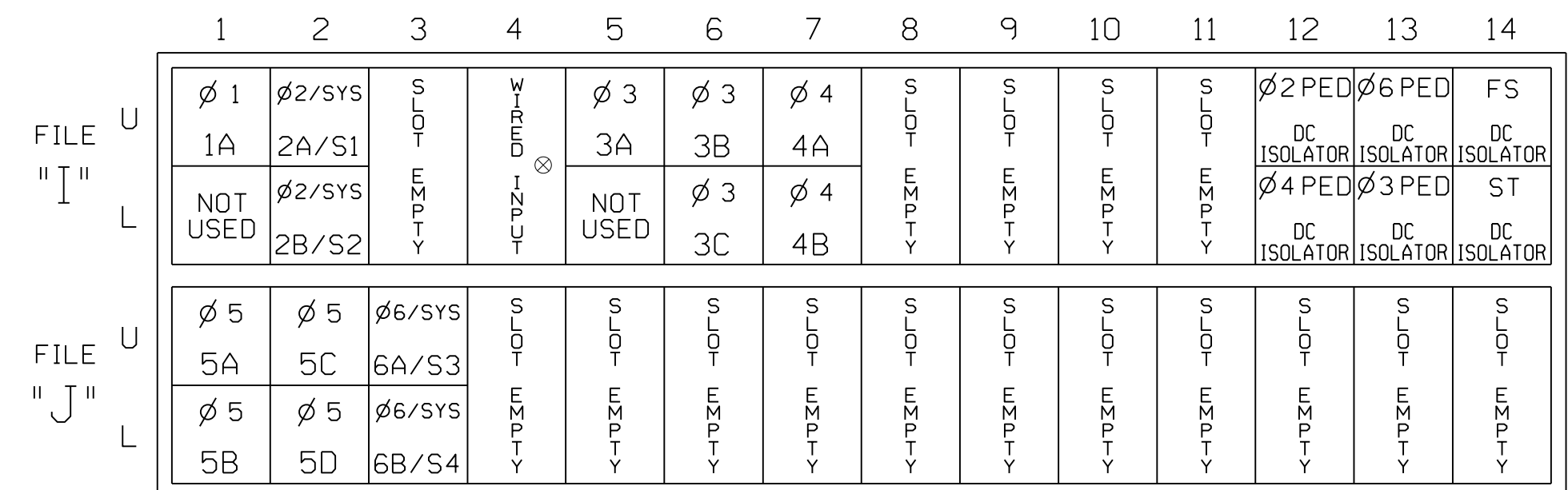
NU = Not Used

\* Denotes install load resistor. See load resistor installation detail this sheet.

★ See pictorial of head wiring in detail this sheet.

### INPUT FILE POSITION LAYOUT

(front view)



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

FS = FLASH SENSE  
 ST = STOP TIME

⊗ Wired Input - Do not populate slot with detector card

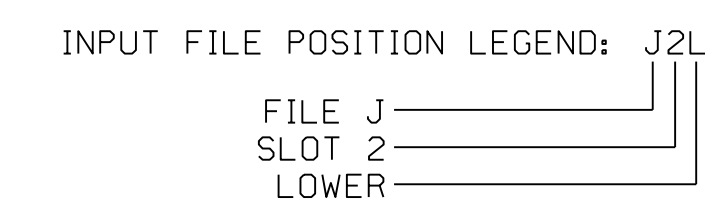
### INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND TIME	DELAY TIME	ADDED INITIAL	DETECTOR TYPE
1A <sup>1</sup>	TB2-1,2	I1U	56	1 ★	1	YES		15		N
	-	J4U	48	26 ★	6	YES				G
2A/S1	TB2-5,6	I2U	39	2	2/SYS	YES			X	N
2B/S2	TB2-7,8	I2L	43	12	2/SYS	YES			X	N
3A	TB4-5,6	I5U	58	3	3	YES				N
3B	TB4-9,10	I6U	41	4	3	YES		10		N
3C	TB4-11,12	I6L	45	14	3	YES		15		N
4A	TB6-1,2	I7U	65	34	4	YES				N
4B	TB6-3,4	I7L	78	44	4	YES				N
5A	TB3-1,2	J1U	55	5	5	YES				N
5B	TB3-3,4	J1L	55	5	5	YES				N
5C	TB3-5,6	J2U	40	6	5	YES				N
5D	TB3-7,8	J2L	44	16	5	YES				N
6A/S3	TB3-9,10	J3U	64	36	6/SYS	YES			X	N
6B/S4	TB3-11,12	J3L	77	46	6/SYS	YES			X	N
PED PUSH BUTTONS										
P21,P22	TB8-4,6	I12U	67	PED 2	2 PED					
P31,P32	TB8-8,9	I13L	70	PED 8	3 PED					
P41,P42	TB8-5,6	I12L	69	PED 4	4 PED					
P61,P62	TB8-7,9	I13U	68	PED 6	6 PED					

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

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

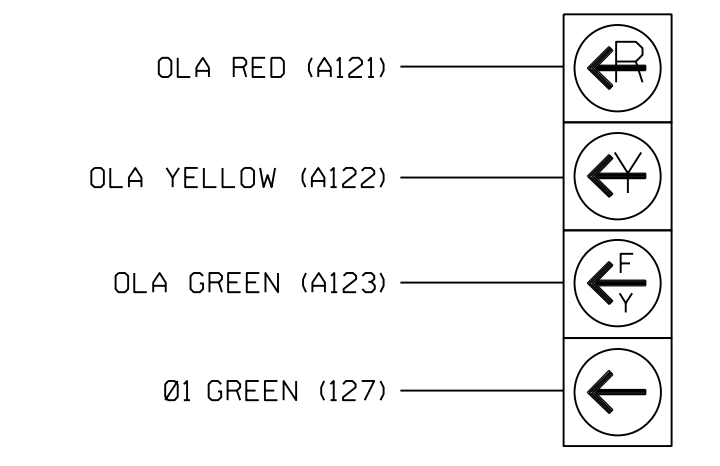
★ For the detectors to work as shown on the signal design plan, see the Vehicle Detector Setup Programming Detail for Alternate Phasing on sheet 2.



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 12-1689  
 DESIGNED: MAY 2022  
 SEALED: 3/24/2023  
 REVISED: N/A

### FYA SIGNAL WIRING DETAIL

(wire signal head as shown)



11

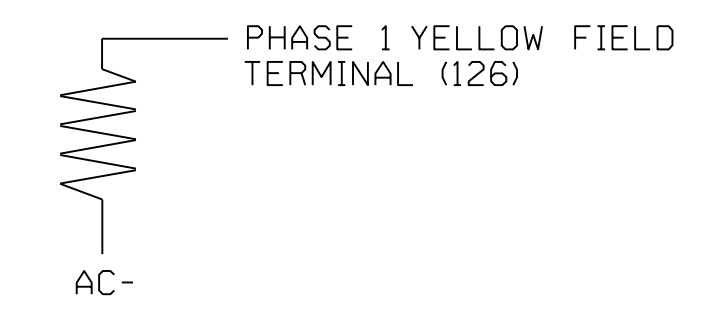
### COUNTDOWN PEDESTRIAN SIGNAL OPERATION

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 resistor as shown below)

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



### Final Design Electrical Detail - Sheet 1 of 3

Stantec Consulting Services Inc.  
 801 Jones Franklin Road-Suite 300  
 Raleigh, NC 27606  
 Tel. (919) 851-6866  
 Fax. (919) 851-7024  
 www.stantec.com  
 License No. F-0672

Prepared for the Offices of:

SR 1100 (Brawley School Road) at SR 1116 (Talbert Road)/SR 2906 (Sunfish Drive)

Division 12	Iredell County	Mooreville
PLAN DATE: May 2022	REVIEWED BY: E D Harris	
PREPARED BY: D A Waller	REVIEWED BY: R M Muncey	
REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DocuSigned by:  
 Derrick Waller  
 3/24/2023

SIG. INVENTORY NO. 12-1689