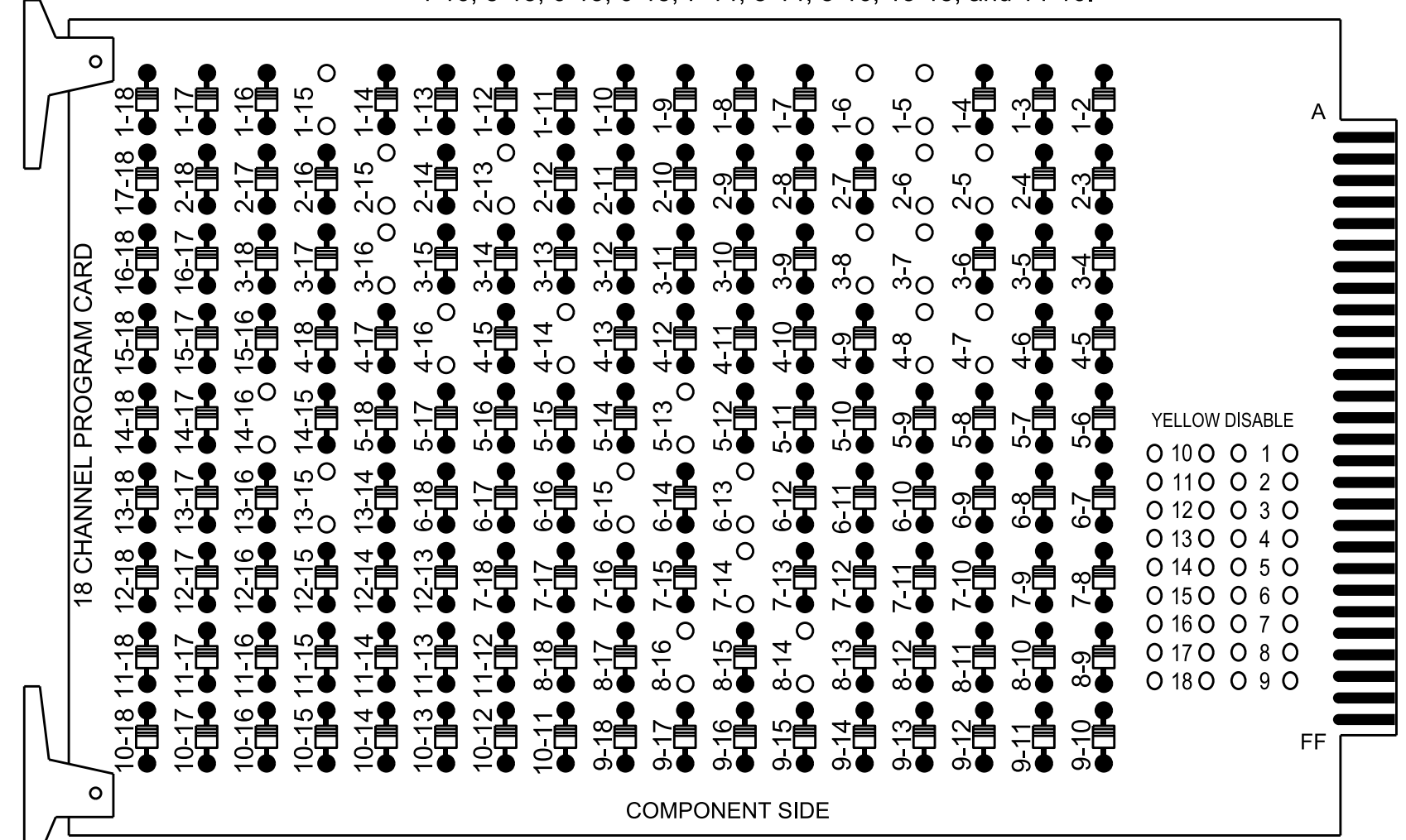


### 18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

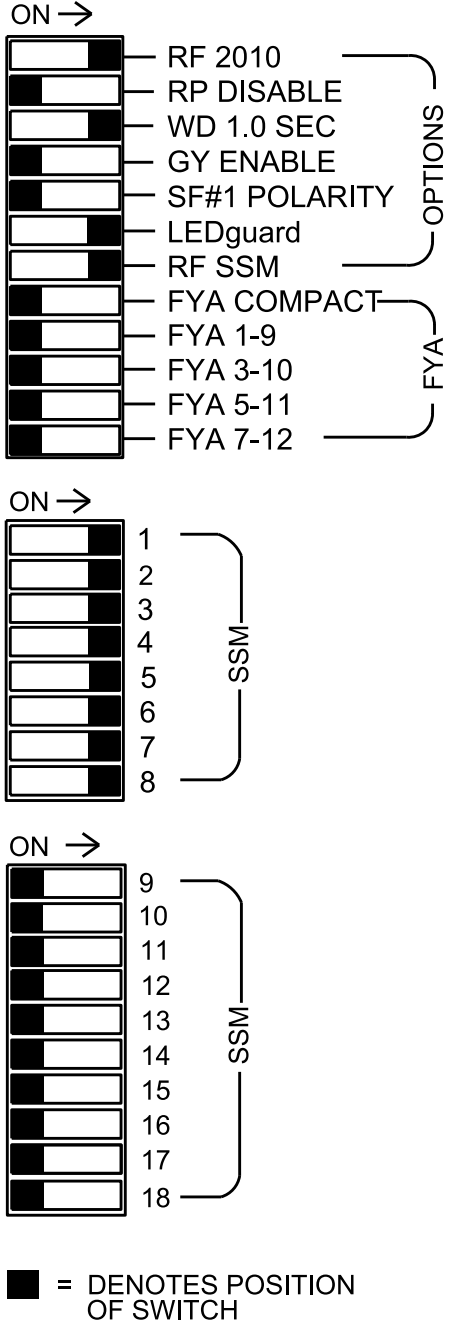
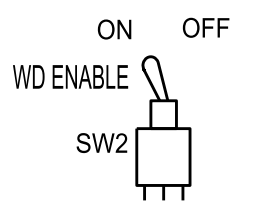
REMOVE DIODE JUMPERS 1-5, 1-6, 1-15, 2-5, 2-6, 2-13, 2-15, 3-7, 3-8, 3-16, 4-7, 4-8, 4-14, 4-16, 5-13, 6-13, 6-15, 7-14, 8-14, 8-16, 13-15, and 14-16.



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 the Red Enable is active at all times during normal operation.
- Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.



### 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.
- Program controller to start up in phases 2 and 6 Green/Don't Walk.
- Enable simultaneous gap-out feature for all phases.
- The cabinet and controller are part of the Raleigh Signal System.

### EQUIPMENT INFORMATION

CONTROLLER.....2070LX  
 CABINET.....332 w/ AUX  
 SOFTWARE.....SE-PAC  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6,S7,S8,S9,S10,S11,S12  
 PHASES USED.....1,2,2 PED,3,4,4 PED,5,6,6 PED,7,8,8 PED  
 OVERLAPS.....NONE

### 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	82	21,22	P21, P22	22	31	41,42	P41, P42	51	61,62	P61, P62	62	71	81,82	P81, P82	NU	NU	NU	NU
RED		128			101			134			107								
YELLOW		129			102			135			108								
GREEN		130			103			136			109								
RED ARROW	125				116			131			122								
YELLOW ARROW	126	126			117	117		132			123	123							
GREEN ARROW	127	127			118	118		133			124	124							
Hand					113			104			119								
Walking					115			106			121								

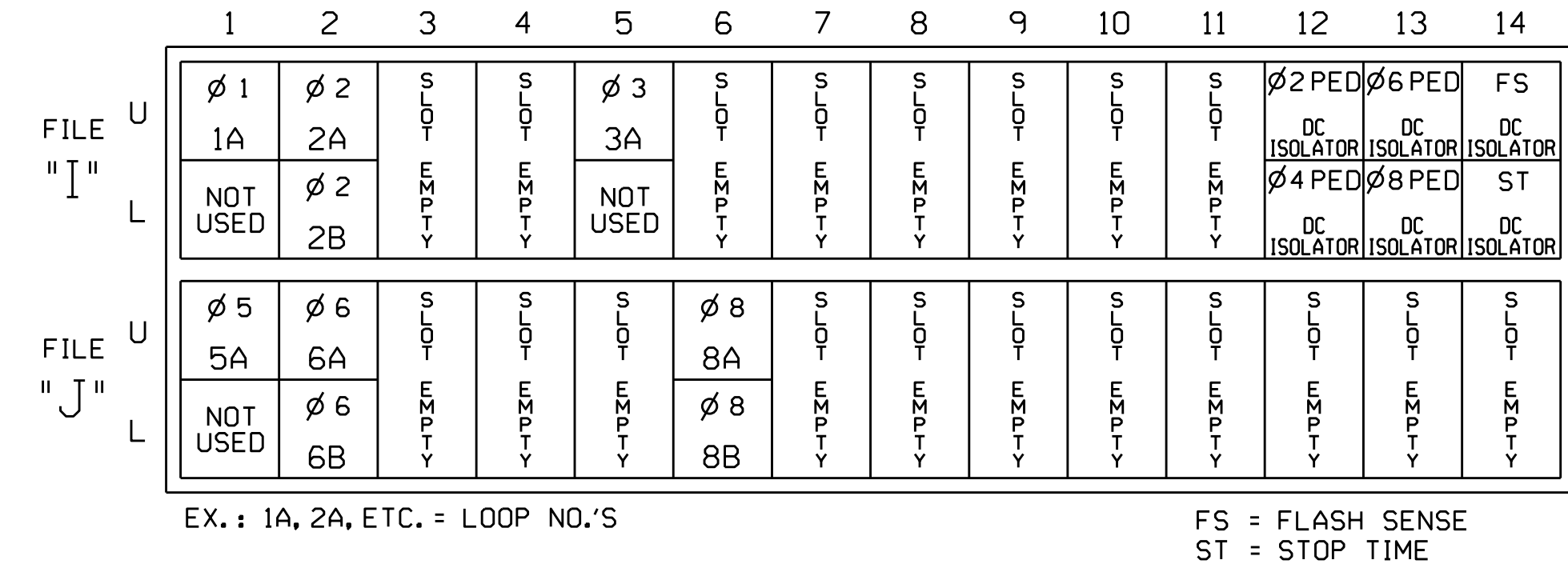
NU = Not Used

### 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.

### INPUT FILE POSITION LAYOUT

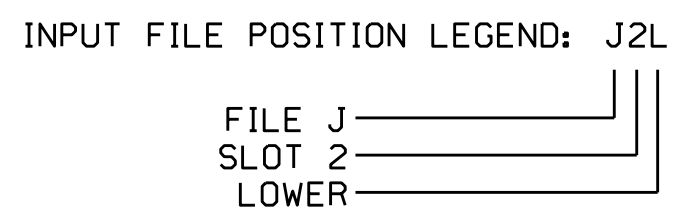
(front view)



### INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	DELAY TIME	EXTEND (STRETCH) TIME
1A	TB2-1,2	I1U	56	1	1	3	
2A	TB2-5,6	I2U	39	3	2		
2B	TB2-7,8	I2L	43	4	2		
3A	TB4-5,6	I5U	58	9	3	3	
5A	TB3-1,2	J1U	55	19	5	3	
6A	TB3-5,6	J2U	40	21	6		
6B	TB3-7,8	J2L	44	22	6		
8A	TB5-9,10	J6U	42	31	8		
8B	TB5-11,12	J6L	46	32	1	15	

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



### ADVANCE WALK PED PROGRAMMING DETAIL

(program controller as shown below)

- From Main Menu select **3 - PHASE DATA**
- From PHASE DATA Submenu select **3 - PEDESTRIAN DATA**
- From PEDESTRIAN DATA Submenu select **3 - PED OFFSET+**

PHASE.....	1	2	3	4	5	6	7	8
WOFF/10	0	30	0	30	0	30	0	30
MODE	0	0	0	0	0	0	0	0

CODES: \* 0-ADVANCE 1-DELAY

Advance Walk PED programming complete.

### INIT & N.A. RESP PROGRAMMING DETAIL

- From Main Menu select **3 - PHASE DATA**
- From PHASE DATA Submenu select **4 - INIT & N.A RESP**

PHASE.....	1	2	3	4	5	6	7	8
INITIAL	1	6	1	1	1	6	1	1
NA RESP	0	1	0	2	0	1	0	2

CODES.....0.....1.....2.....3.....4.....5.....6  
 INITL NONE INACT RED YEL GRN DRK G/DW  
 NA RSP NONE NA1 NA2 1&2 --- --- ---

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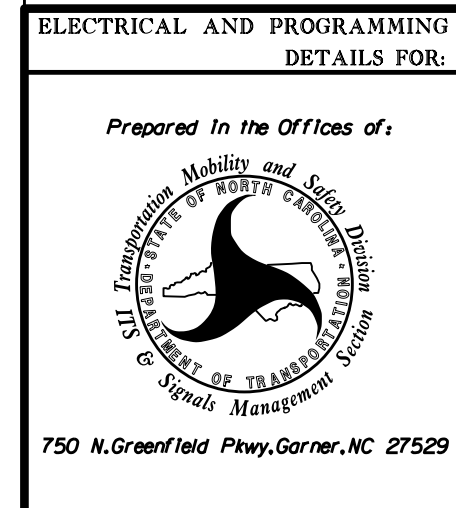
INIT & N.A. RESP PROGRAMMING COMPLETE

### SPECIAL DETECTOR NOTE

For zones 4A, 4B, and 7A install a video detection system for vehicle detection. Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: R-0434T2  
 DESIGNED: February 2023  
 SEALED: 8/30/2023  
 REVISED: N/A

Electrical Design - Temp. Design 2 (TMP Phase II, Step 4)



Atlantic Avenue at New Hope Church Road	
Division 5	Wake County
PLAN DATE: May 2023	REVIEWED BY: DTJ
PREPARED BY: D.J. Craddock	REVIEWED BY:
REVISIONS	INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

STATE OF NORTH CAROLINA  
 PROFESSIONAL ENGINEER  
 SEAL 031001  
 D. TODD JOYCE

08/31/2023

SIG. INVENTORY NO. R-0434T2

31-AUG-2023 09:16 S:\IT\565\15\Sig\0434\15\Sig\0434\15\0434\_46927\_1\_1\0434\_sm\_ele\_20230303.dgn