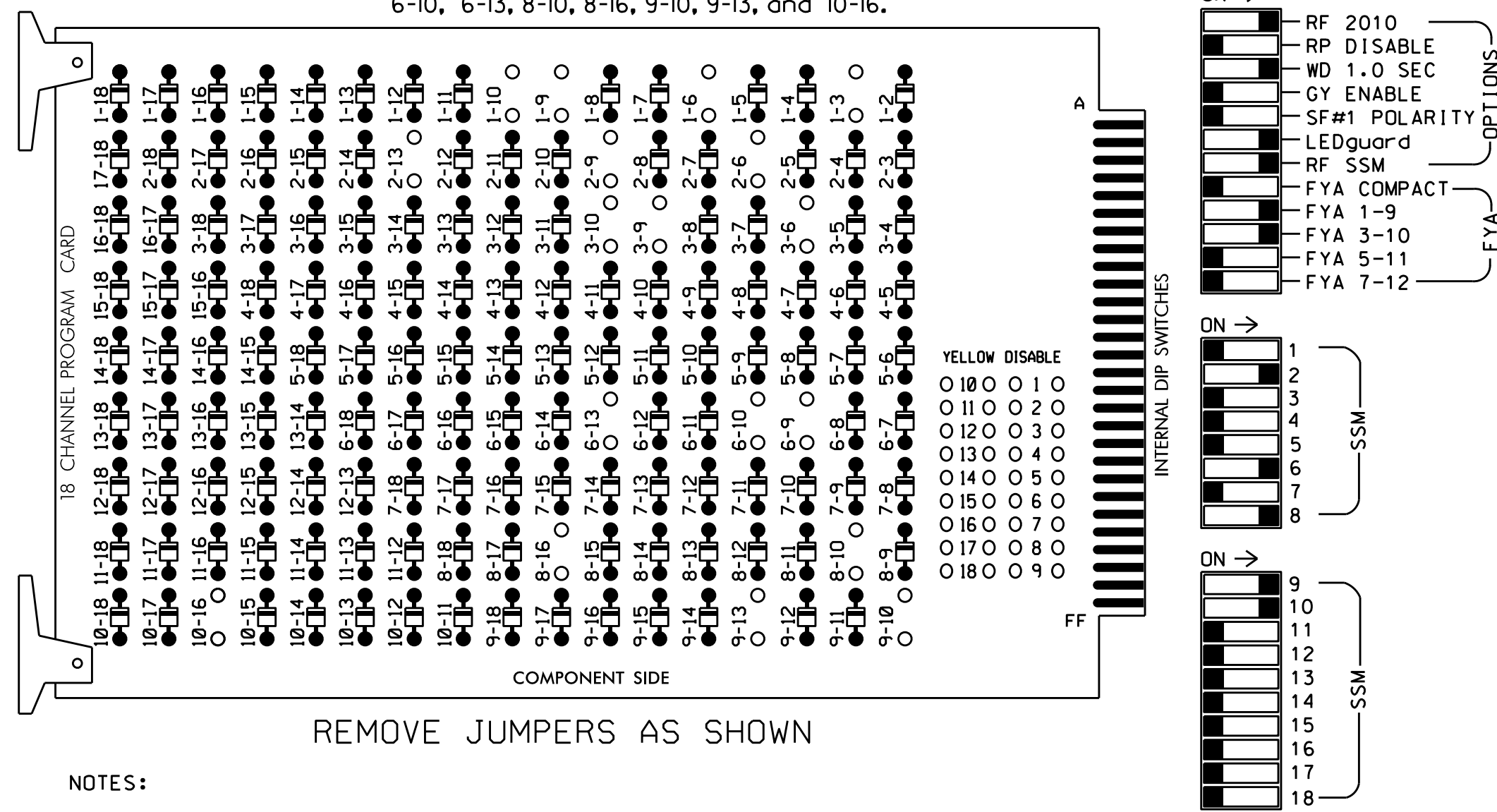


**EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL**  
(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-3, 1-6, 1-9, 1-10, 2-6, 2-9, 2-13, 3-6, 3-9, 3-10, 6-9, 6-10, 6-13, 8-10, 8-16, 9-10, 9-13, and 10-16.



**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.
- Connect serial cable from conflict monitor to comm. port 1 of 2070LX controller. Ensure conflict monitor communicates with 2070LX.

**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.
- Enable simultaneous gap-out feature for all phases.
- Program phase 4 for dual entry.
- Program phases 2 and 6 for volume density operation.
- The cabinet and controller are part of the Raleigh Signal System.

**EQUIPMENT INFORMATION**

CONTROLLER.....2070LX  
 CABINET.....332 W/ AUX  
 SOFTWARE.....SE-PAC2070  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE  
 LOAD SWITCHES USED.....S1,S2,S3,S4,S8,S11,S12,AUX S1,AUX S2  
 PHASES USED.....1,2,PED,4\*,6,8,8PED  
 OVERLAP A.....1+2  
 OVERLAP B.....1+4  
 OVERLAP C.....NOT USED  
 OVERLAP D.....NOT USED  
 OVERLAP G.....1

\* PHASE USED FOR TIMING PURPOSES ONLY  
 \*\* SEE SHEET 2 FOR OVERLAP PROGRAMMING

**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	OLG	4	4 PED	5	6	6 PED	7	8	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	11	21,22	P21, P22	83	NC	NU	NU	61,62	63	NU	NU	81,82	P81, P82	11	83	NU	NU	NU
RED		128							134						A121			
YELLOW	*	129		*					135									
GREEN		130							136									
RED ARROW											107			A121				
YELLOW ARROW											108			A122	A122			
FLASHING YELLOW ARROW														A123	A123			
GREEN ARROW	127			118							109							
Hand icon				113										110				
Walking person icon				115										112				

NU = Not Used

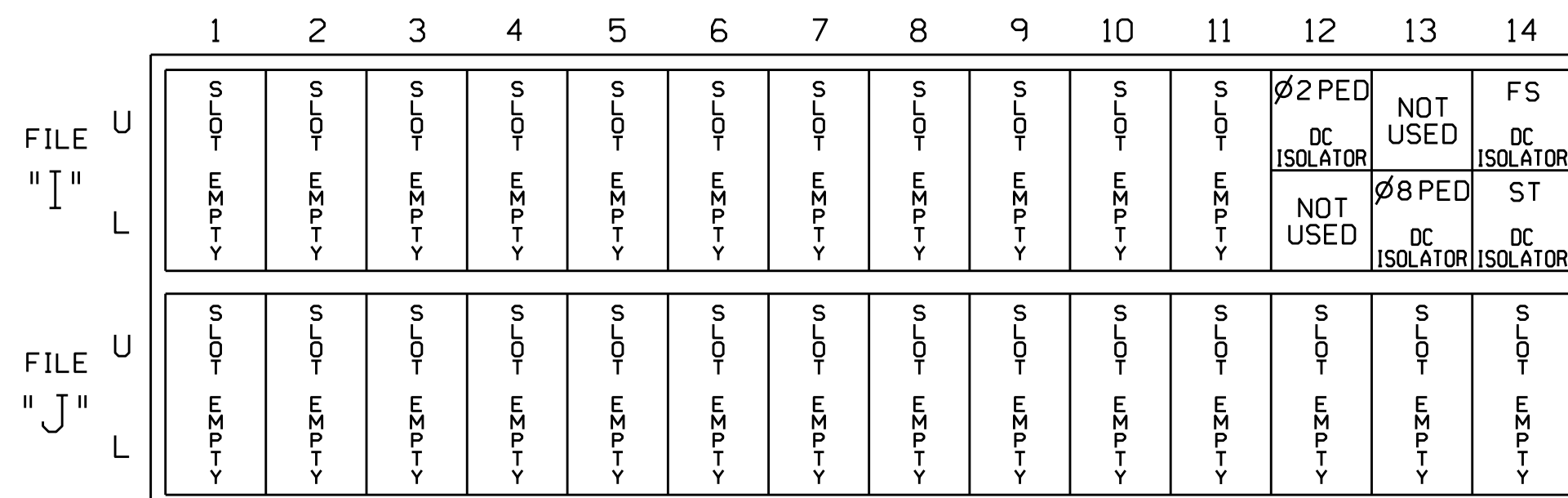
NC = No Connection

\* 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)

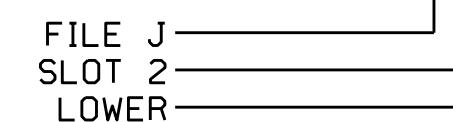


**INPUT FILE CONNECTION & PROGRAMMING CHART**

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	DELAY TIME	EXTEND (STRETCH) TIME
P21,P22	T88-4,6	I12U	67	PED 2	2 PED		
P81,P82	T88-8,9	I13L	70	PED 8	8 PED		

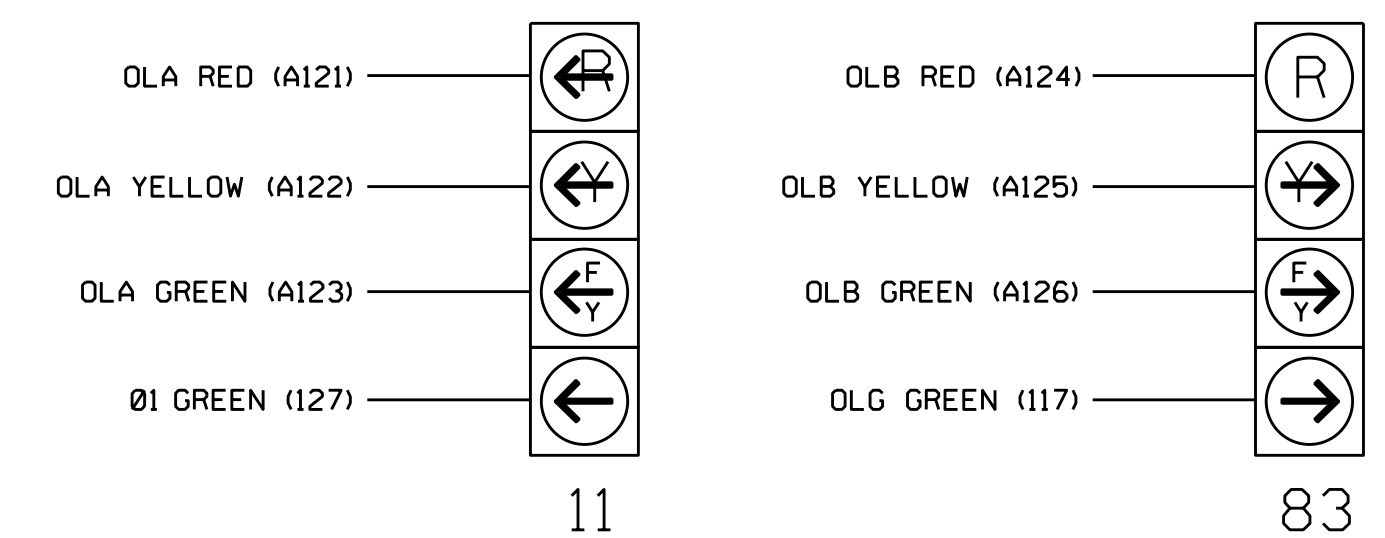
NOTE: INSTALL DC ISOLATORS IN INPUT FILE SLOTS 112 AND 113.

INPUT FILE POSITION LEGEND: J2L



**FYA SIGNAL WIRING DETAIL**

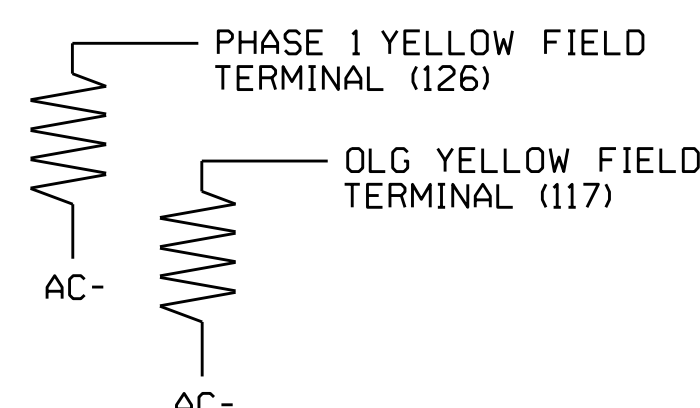
(wire signal heads as shown)



**LOAD RESISTOR INSTALLATION DETAIL**

(install resistors as shown below)

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



IMPORTANT! Move resistor from Red field terminal to Yellow field terminal for Phase 1.

**SPECIAL DETECTOR NOTE**

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: 05-2293T2  
 DESIGNED: July 2019  
 SEALED: 8/22/2019  
 REVISED: N/A

**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.

Electrical Detail - Temp. Design 2 (TMP Phase III)  
 Sheet 1 of 3

Electrical and Programming Details for: SR 2000 (Falls of Neuse Rd.) at Morrocroft Drive

Prepared In the Offices of: [Logo]

Division 5 Wake County Raleigh

PLAN DATE: October 2021 REVIEWED BY: [Signature]

PREPARED BY: S. Armstrong REVIEWED BY: [Signature]

REVISIONS: [Table]

DocuSigned by: Ryan W. Hough 03/07/2022

SIG. INVENTORY NO. 05-2293T2