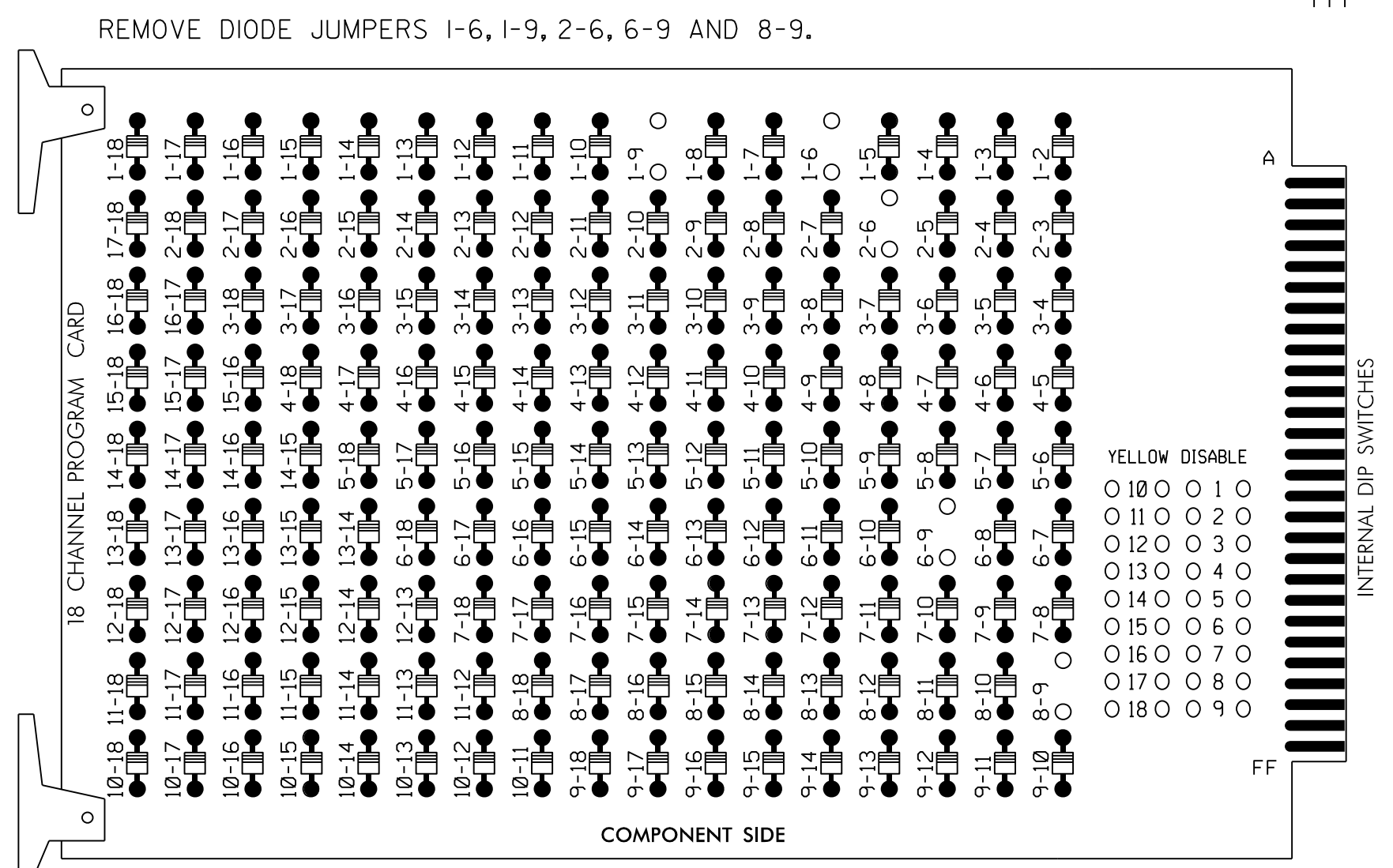


### 18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

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

■ = 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.
- Program controller to start up in phases 2 and 6 green.
- Enable simultaneous gap-out feature, on controller unit, for all phases.
- Program phases 2 and 6, on controller unit, 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,S8,S11,AUX S1  
 PHASES USED.....1,2,4\*,6,8  
 OVERLAP "A".....\*\*  
 OVERLAP "B".....NOT USED  
 OVERLAP "C".....NOT USED  
 OVERLAP "D".....NOT USED

\* Phase used for timing purposes only,  
 \*\* See this sheet 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	3	4	4 PED	5	6	6 PED	7	8	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	11	21	22,23	NU	NU	NC	NU	NU	61,62 63	NU	NU	81,82, 83	NU	84	NU	NU	NU	NU
RED		128	128						134					A121				
YELLOW		129	129						135									
GREEN			130						136									
RED ARROW	125										107							
YELLOW ARROW	126										108		A122					
GREEN ARROW	127	130									109		A123					

NU = Not Used  
 NC = Not Connected

### OVERLAP PROGRAMMING FOR OVERLAP A

- From Main Menu select **4 - UNIT DATA**
- From UNIT DATA Submenu select **3 - OVERLAP DATA**

Use Up/Dn/Left/Right keys to position cursor on the desired Overlap. Use the NEXT key to select the overlap type. Press the ENT key and then program as per the Overlap screen(s) shown.

OVERLAP DATA			
A: STD	E: ---	I: ---	M: ---
B: ---	F: ---	J: ---	N: ---
C: ---	G: ---	K: ---	O: ---
D: ---	H: ---	L: ---	P: ---
PREV/NEXT TO CYCLE			

#### OVERLAP A

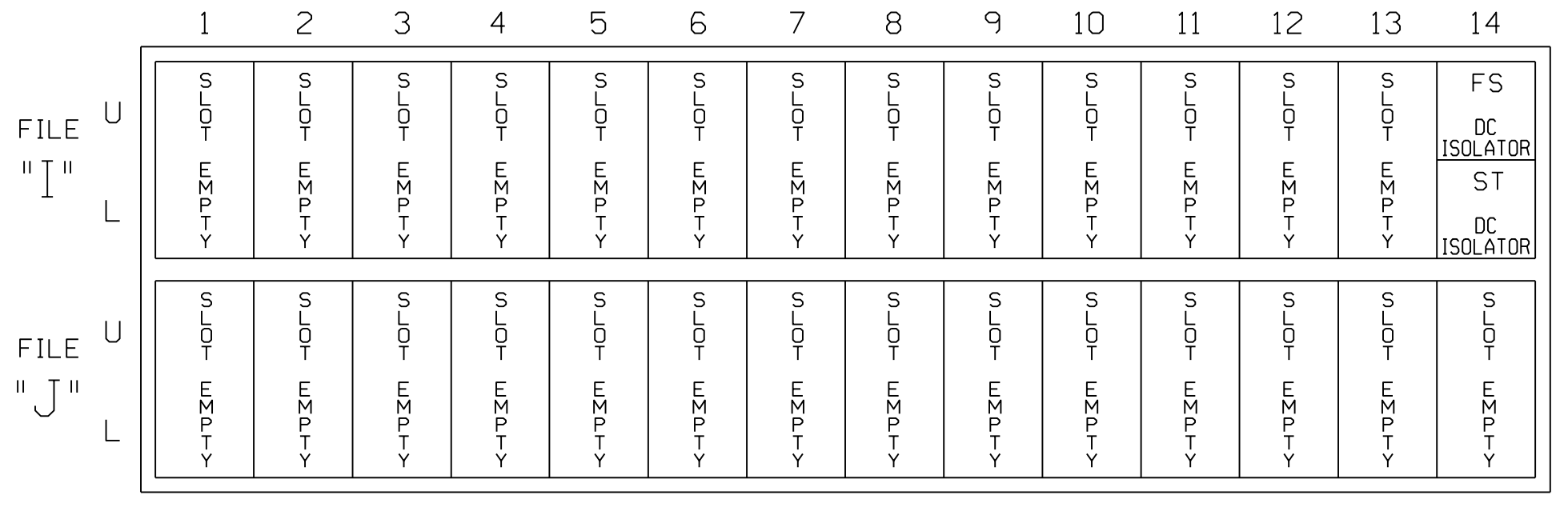
Use Up/Dn/Left/Right keys to position cursor on Overlap 'A', use the NEXT key to select 'STD', then press ENT

OVERLAP - A	12345678 90123456
PARENTS:	10000001 00000000
+GRN PHASES:	00000000 00000000
-G/Y PHASES:	00000000 00000000
-PED PHASES:	00000000 00000000
TRAIL GREEN STANDARD:	0 YEL/10: 40
TRAIL GREEN PREEMPT:	0 YEL/10: 20

END OVERLAP PROGRAMMING

### INPUT FILE POSITION LAYOUT

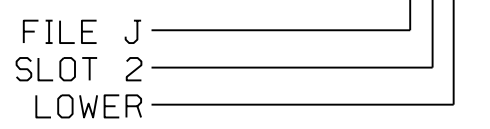
(front view)



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

FS = FLASH SENSE  
ST = STOP TIME

INPUT FILE POSITION LEGEND: J2L



### 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.

### FLASHER CIRCUIT MODIFICATION DETAIL

IN ORDER TO INSURE THAT SIGNALS FLASH CONCURRENTLY ON THE SAME APPROACH, MAKE THE FOLLOWING FLASHER CIRCUIT CHANGES:

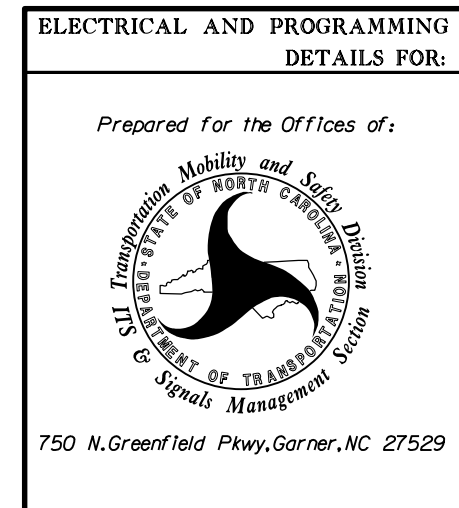
- ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-4 AND TERMINATE ON T2-2.
- ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-5 AND TERMINATE ON T2-3.
- REMOVE FLASHER UNIT 2.

THE CHANGES LISTED ABOVE TIES ALL PHASES AND OVERLAPS TO FLASHER UNIT 1.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-1982T1  
 DESIGNED: Jan 2023  
 SEALED: 1/24/2023  
 REVISED:

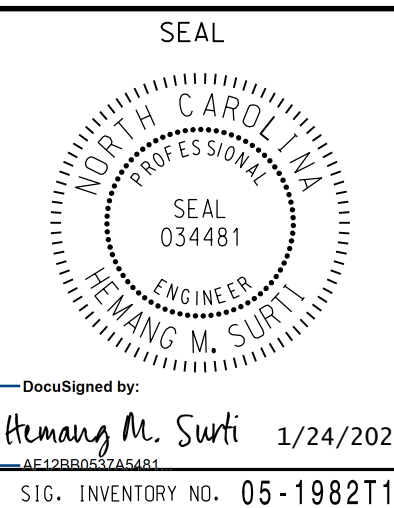


Temporary Design 1 (TMP Phase II)  
 Electrical Detail



ELECTRICAL AND PROGRAMMING DETAILS FOR:		US 401 (Louisburg Road) at SR 2224 (Mitchell Mill Road)	
Prepared for the Offices of:	Division 5	Wake County	Raleigh
PLAN DATE: Jan 2023	REVIEWED BY: H.M. Surti		
PREPARED BY: A. Ravipati	REVIEWED BY:		
REVISIONS	INIT.	DATE	

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



DocuSigned by:  
 H. Wang M. Surti 1/24/2023  
 AECOM 034481  
 SIG. INVENTORY NO. 05-1982T1