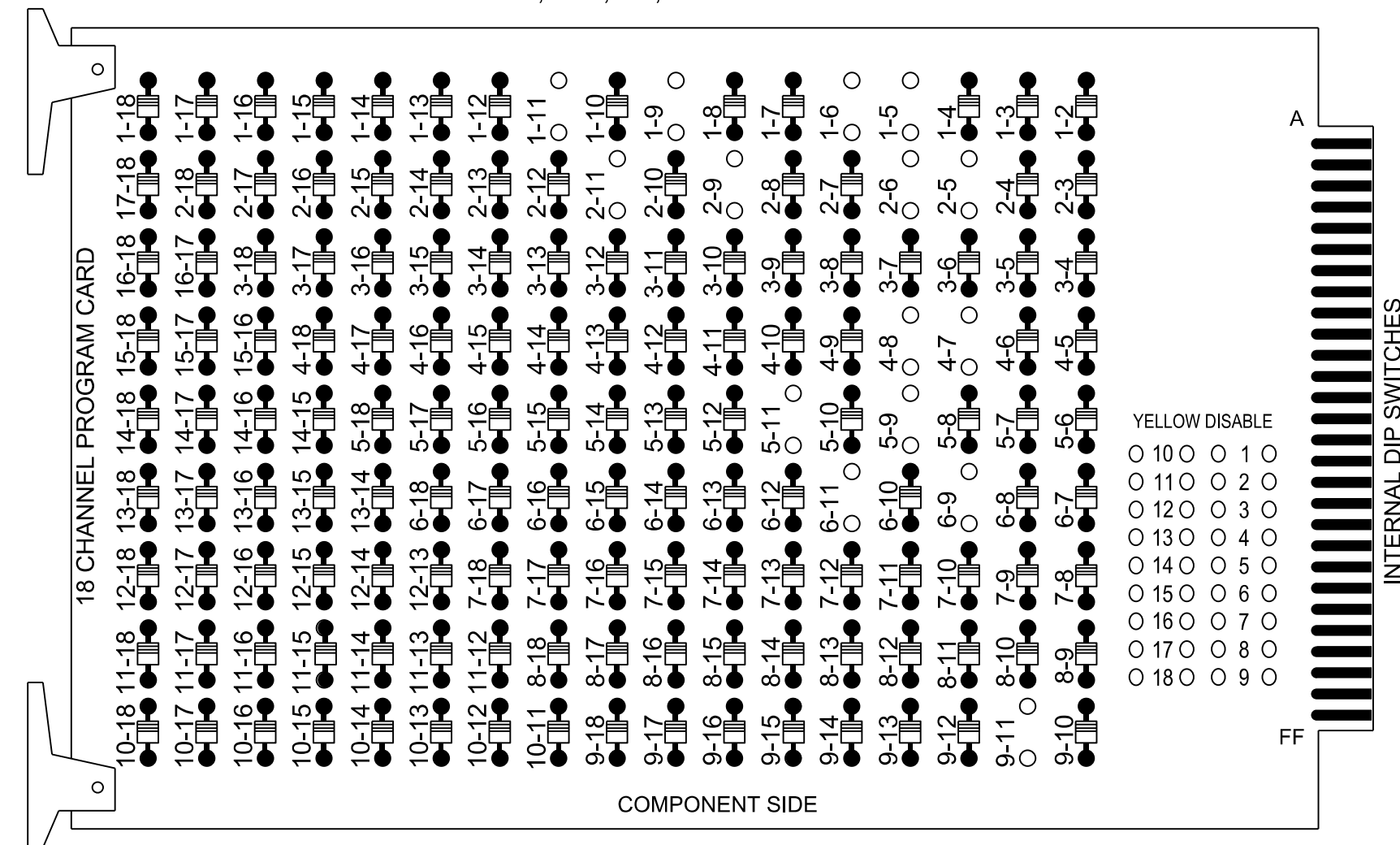


### 18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-11, 2-5, 2-6, 2-9, 2-11, 4-7, 4-8, 5-9, 5-11, 6-9, 6-11 AND 9-11.



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.
- Integrate monitor with Ethernet network in cabinet.

### 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 plan.
- Program phase 4 for Dual Entry.
- Program controller to start up in phase 2 Green No Walk and 6 Green No Walk.
- If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.
- The cabinet and controller are part of the D06-03 Hope Mills System.

### EQUIPMENT INFORMATION

Controller.....2070LX  
 Cabinet.....332 w/ Aux  
 Software.....Q-Free MAXTIME  
 Cabinet Mount.....Base  
 Output File Positions.....18 With Aux. Output File  
 Load Switches Used.....S1, S2, S5, S7, S8, S10, S11, AUX S1, AUX S4  
 Phases Used.....1, 2, 4, 5, 6, 7, 8  
 Overlap "1".....\*  
 Overlap "2".....\*  
 Overlap "3".....\*  
 Overlap "4".....\*

\*See overlap programming detail on sheet 2

### SIGNAL HEAD HOOK-UP CHART

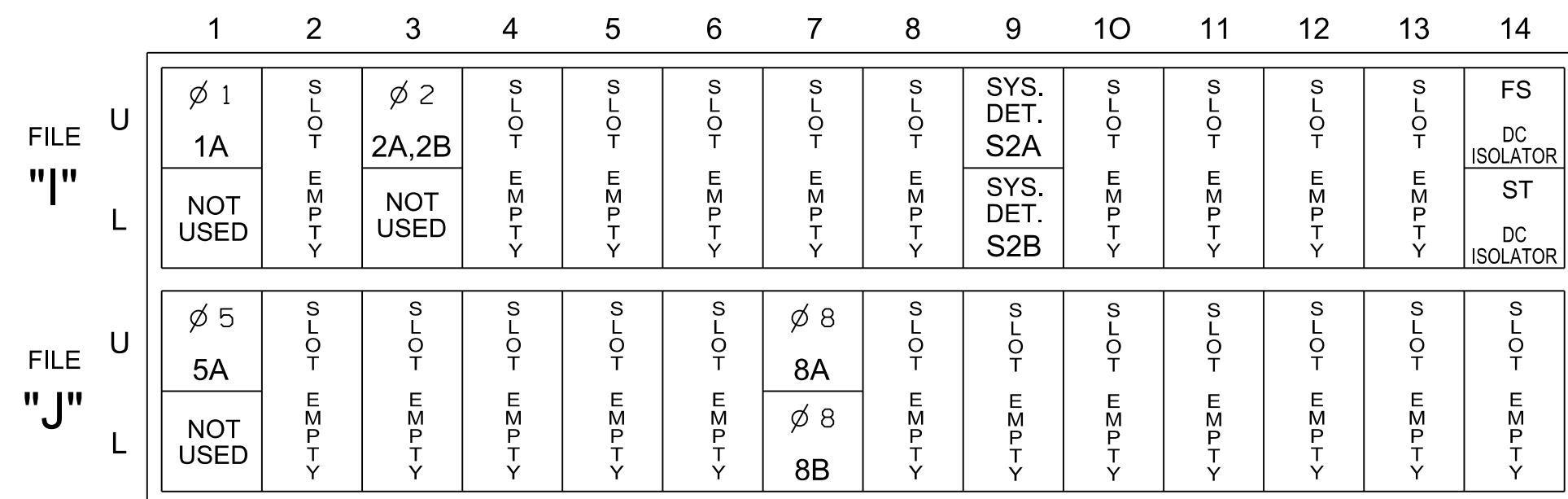
LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	11*	21,22	NU	NU	41,42	NU	51*	61,62	NU	71,72	81,82	NU	11*	NU	NU	51*	NU	NU
RED		128			101			134			107							
YELLOW	*	129			102		*	135			108							
GREEN		130			103			136			109							
RED ARROW										122			A121				A114	
YELLOW ARROW										123			A122				A115	
FLASHING YELLOW ARROW													A123				A116	
GREEN ARROW	127							133		124								

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

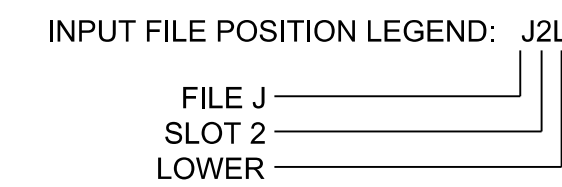
FS = FLASH SENSE  
ST = STOP TIME

### INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
1A <sup>1</sup>	TB2-1,2	I1U	56	18	1	1	15		X		X	
2A,2B	TB2-9,10	I3U	63	29	4	2			X		X	
*S2A	TB6-9,10	I9U	60	22	13	SYS			X		X	
*S2B	TB6-11,12	I9L	62	24	14	SYS			X		X	
5A <sup>2</sup>	TB3-1,2	J1U	55	17	15	5	15		X		X	
8A	TB7-1,2	J7U	66	32	24	8	3		X		X	
8B	TB7-3,4	J7L	79	45	25	8	15		X		X	

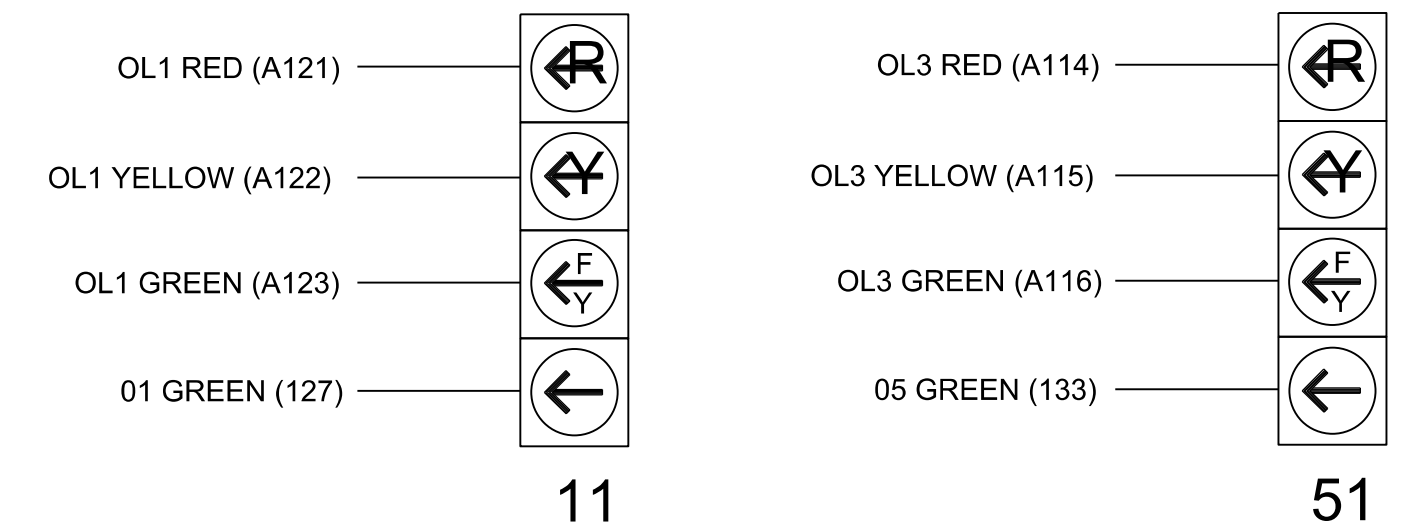
\* System detector only. Remove any assigned vehicle phase.

- Remove jumper from I1-W to J4-W on rear of input file, if present.
- Remove jumper from J1-W to I4-W on rear of input file, if present.



### FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



### OVERLAP PROGRAMMING

Front Panel  
Main Menu > Controller > Overlap > Overlap Parameters/Overlap Timings

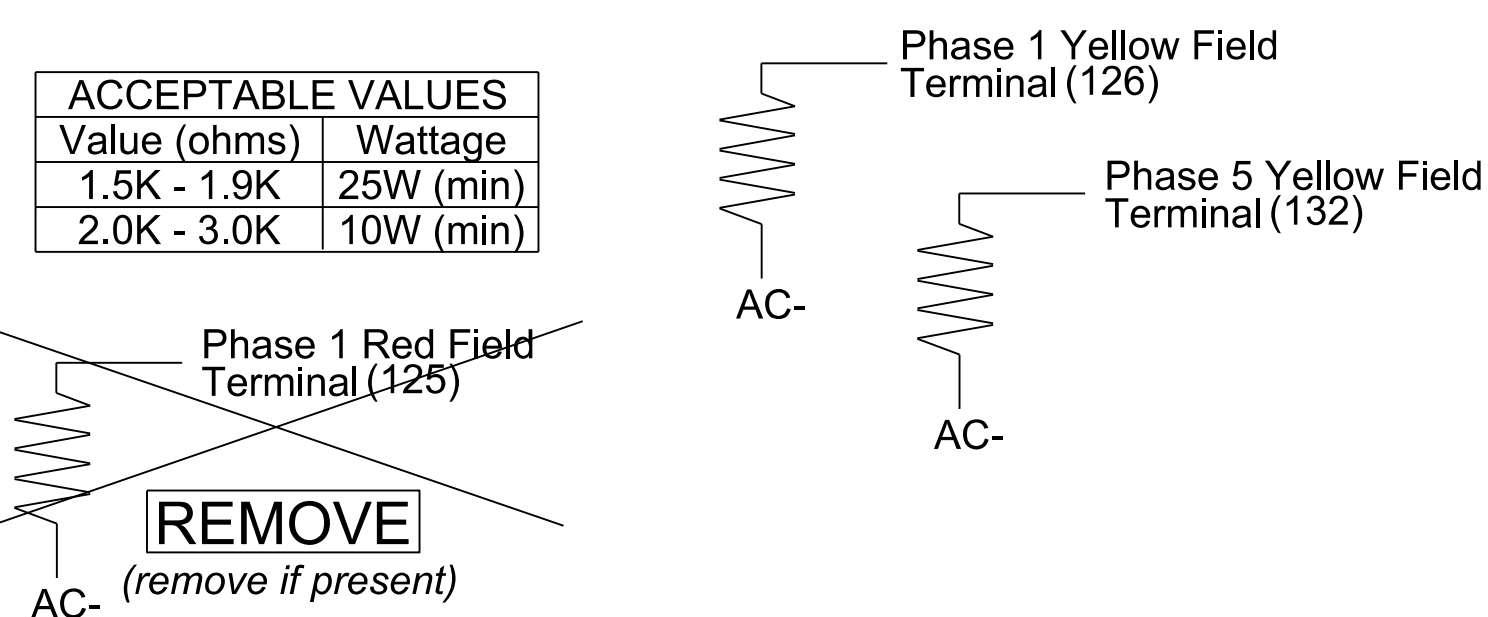
Web Interface  
Home > Controller > Overlap Configuration > Overlaps

Overlap Plan 1

Overlap	1	2	3	4
Type	FYA 4 - Section	OFF	FYA 4 - Section	OFF
Included Phases	2		6	
Modifier Phases	1		5	
Modifier Overlaps	-		-	
Trail Green	0	0	0	0
Trail Yellow	0.0	0.0	0.0	0.0
Trail Red	0.0	0.0	0.0	0.0

### LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)



### SPECIAL DETECTOR NOTE

Install a video detection system for vehicle detection in zones 4A, 6A, 6B, 7A, 7B, S6A, and S6B. 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: 06-0584T1  
 DESIGNED: March 2024  
 SEALED: 03-15-2024  
 REVISED: N/A



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### Electrical Detail

Electrical and Programming Details For:  
 Prepared in the Offices of:  
  
 750 N. Greenfield Pkwy, Garner, NC 27529

SR 1596 (N. Main Street)  
 at  
 SR 1115 (Golfview Road)  
 Division 6 Cumberland County Hope Mills  
 PLAN DATE: March 2024 REVIEWED BY:  
 PREPARED BY: J.T. Rowe REVIEWED BY: G.G. Murr, Jr.  
 REVISIONS: \_\_\_\_\_ INIT. DATE \_\_\_\_\_  
 DocuSigned by: John T. Rowe Jr.  
 06-0584T1

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