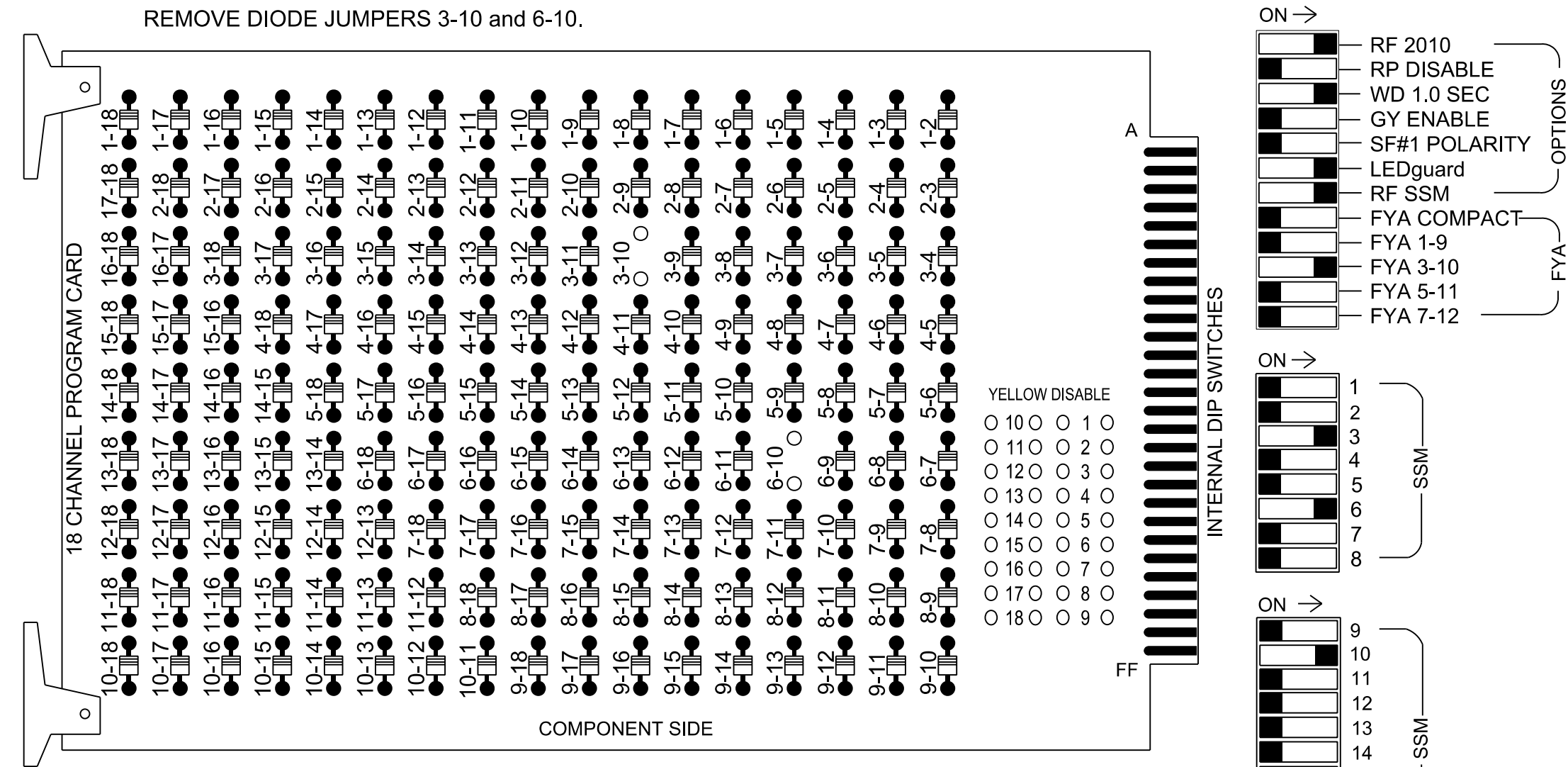


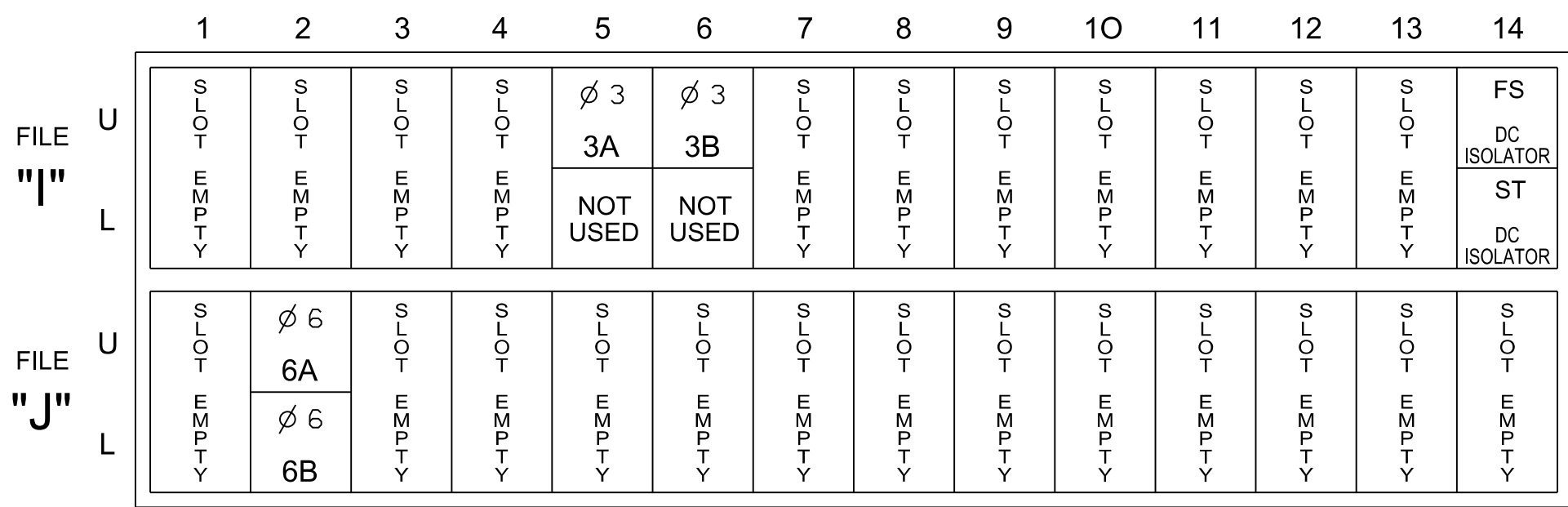
### 18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(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 the Red Enable is active at all times during normal operation.
  - Integrate monitor with Ethernet network in cabinet.

### INPUT FILE POSITION LAYOUT (front view)



EX.: 1A, 2A, ETC. = LOOP NO.'S FS = FLASH SENSE ST = STOP TIME

### 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.....S4, S8, AUX S2.  
 Phases Used.....3, 6  
 Overlap "1".....NOT USED  
 Overlap "2".....\*  
 Overlap "3".....NOT USED  
 Overlap "4".....NOT USED

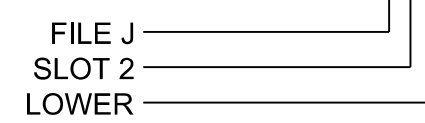
\*See overlap programming detail on sheet 2.

### 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
3A	TB4-5,6	I5U	58	20	7	★	3	15.0		X	X	
3B	TB4-9,10	I6U	41	3	8	★	3	15.0		X	X	
6A	TB3-5,6	J2U	40	2	16		6			X	X	
6B	TB3-7,8	J2L	44	6	17		6			X	X	

★For the detectors to work as shown on the signal plans, see the vehicle detector setup Programming Detail for Alternate Phasing on sheet 2.

INPUT FILE POSITION LEGEND: J2L



### 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 controller to start up in phase 6 Green No Walk.
- Program startup sequence as follows:  
 From web Interface: Controller>Unit: set STARTUP CLEARANCE HOLD to 6 sec and ALL RED FLASH EXIT TIME to 6 seconds.
- Ensure all channels are programmed to flash red on the channel configuration screen. From web Interface: Controller>Advanced IO>Channels>Channel Configuration: program all channels to flash red.
- If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.

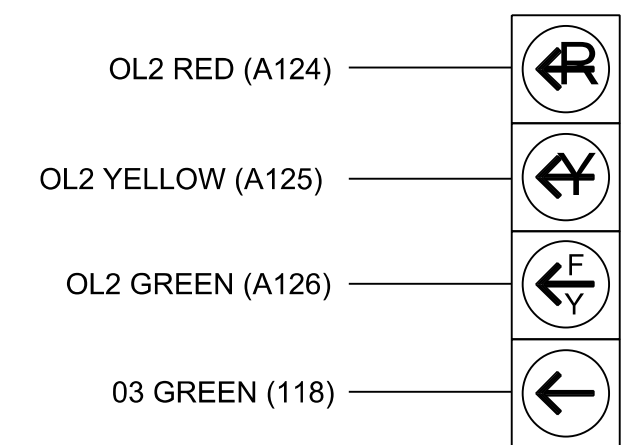
### SIGNAL HEAD HOOK-UP CHART

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.	NU	NU	NU	31	★	NU	NU	61,62	NU	NU	NU	NU	NU	31	★	NU	NU	NU
RED								134										
YELLOW				★				135										
GREEN																		
RED ARROW														A124				
YELLOW ARROW														A125				
FLASHING YELLOW ARROW														A126				
GREEN ARROW								118										136

NU = Not Used  
 ★ Denotes install load resistor. See load resistor installation detail this sheet.  
 ★ See pictorial of head wiring in detail this sheet.

### FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)

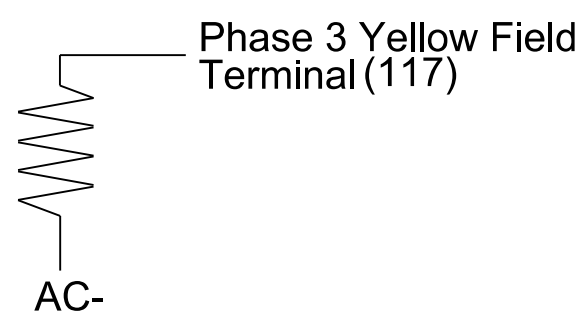


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### LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)

Value (ohms)	Wattage
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)



### SEQUENCE DETAIL

Front Panel  
 Main Menu > Controller > Sequence & Phs Config > Sequences

Web Interface  
 Home > Controller > Sequence

Sequence 1

Ring	Sequence Data
1	6,a,3,b
2	

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 08-0487  
 DESIGNED: August 2024  
 SEALED: August 28, 2024  
 REVISED: N/A

New Installation-Electrical Detail-Sheet 1 of 2

Electrical and Programming Details For:

Prepared for the Offices of:

Seal: NORTH CAROLINA PROFESSIONAL ENGINEER PORTER JONES

Division 8 NC 211 Westbound At U-Turn South of SR 1219 (Plank Rd) Moore County Aberdeen

PLAN DATE: August 2024 REVIEWED BY: DT Sears

PREPARED BY: VS Kondapally REVIEWED BY: W.P. Erickson-Jones

REVISIONS: INIT. DATE

8/28/2024

DocuSigned by: Porter Jones

DocuSign Envelope ID: 800E13E3A0E488

SIG. INVENTORY NO. 08-0487