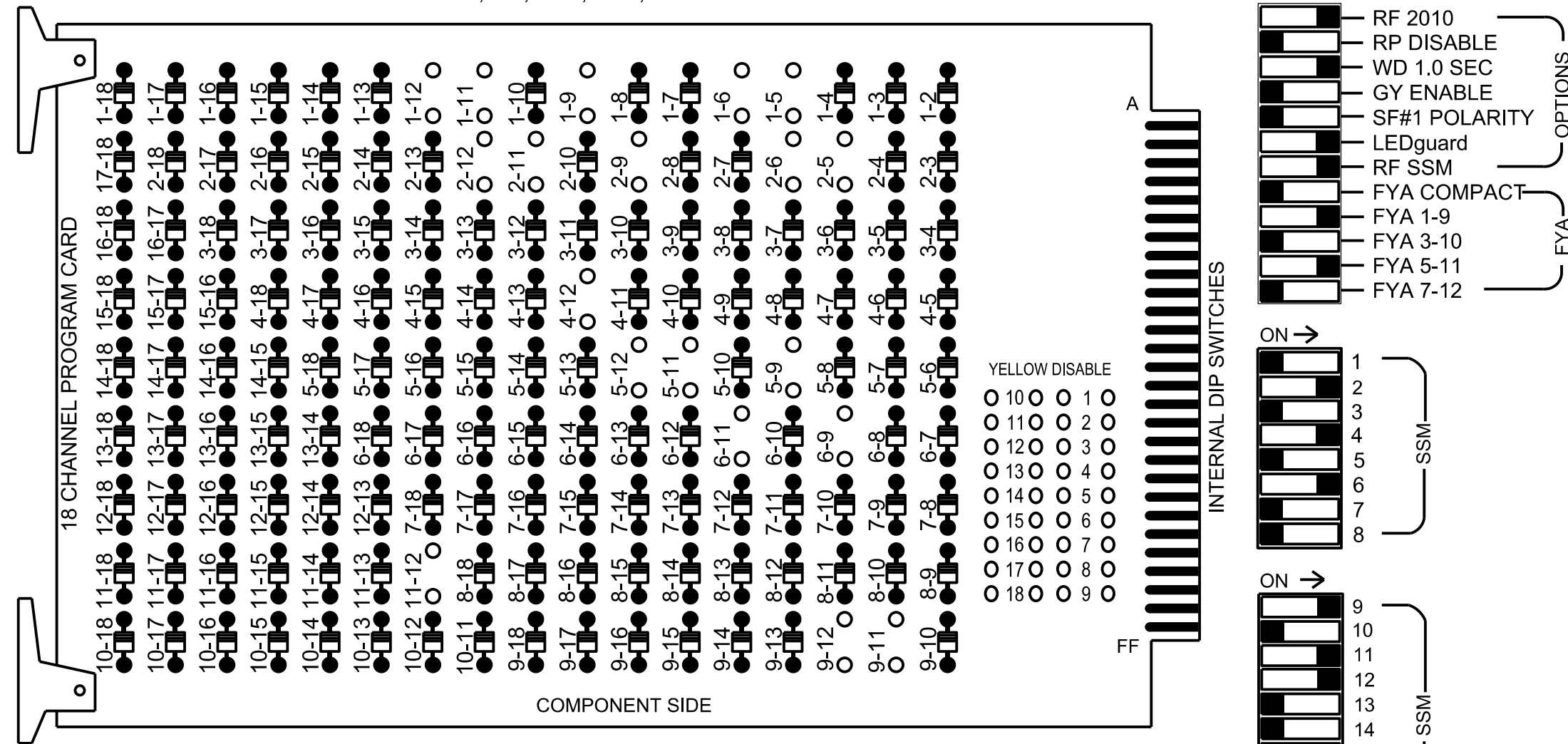


**18 CHANNEL CONFLICT MONITOR**

**PROGRAMMING DETAIL**

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-11, 1-12, 2-5, 2-6, 2-9, 2-11, 2-12, 4-12, 5-9, 5-11, 5-12, 6-9, 6-11, 9-11, 9-12 and 11-12.



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 plan.
- 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.

**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, AUX S1, AUX S4, AUX S5  
 Phases Used.....1, 2, 4, 5, 6  
 Overlap "1".....\*  
 Overlap "2".....NOT USED  
 Overlap "3".....\*  
 Overlap "4".....\*

\*See overlap programming detail on sheet 2

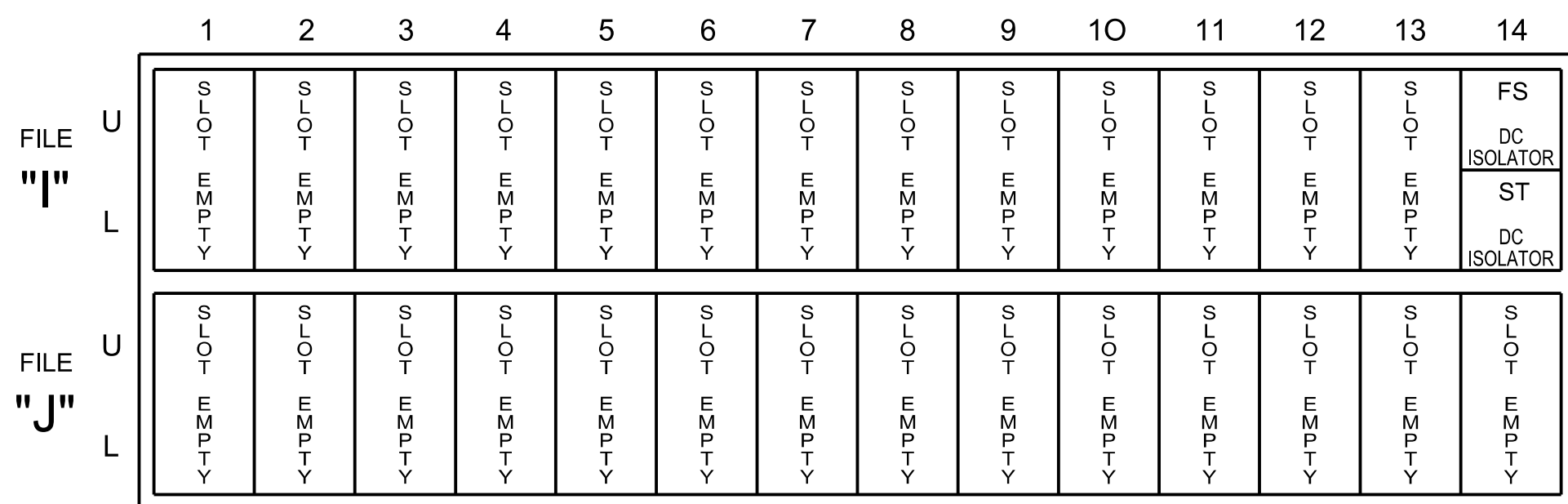
**SIGNAL HEAD HOOK-UP CHART**

| 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  | NU    | 51  | 61,62<br>63 | NU    | NU  | NU  | NU    | 11*    | NU     | NU     | 51*    | 42,43  | NU     |
| RED                   |     | 128   |       |    | 101 |       |     | 134         |       |     |     |       |        |        |        |        |        | A101   |
| YELLOW                | *   | 129   |       |    |     |       | *   | 135         |       |     |     |       |        |        |        |        |        |        |
| GREEN                 |     | 130   |       |    |     |       |     | 136         |       |     |     |       |        |        |        |        |        |        |
| RED ARROW             |     |       |       |    |     |       |     |             |       |     |     |       | A121   |        |        |        | A114   |        |
| YELLOW ARROW          |     |       |       |    | 102 |       |     |             |       |     |     |       | A122   |        |        |        | A115   | A102   |
| FLASHING YELLOW ARROW |     |       |       |    |     |       |     |             |       |     |     |       | A123   |        |        |        | A116   |        |
| GREEN ARROW           | 127 |       |       |    | 103 |       | 133 |             |       |     |     |       |        |        |        |        |        | A103   |

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

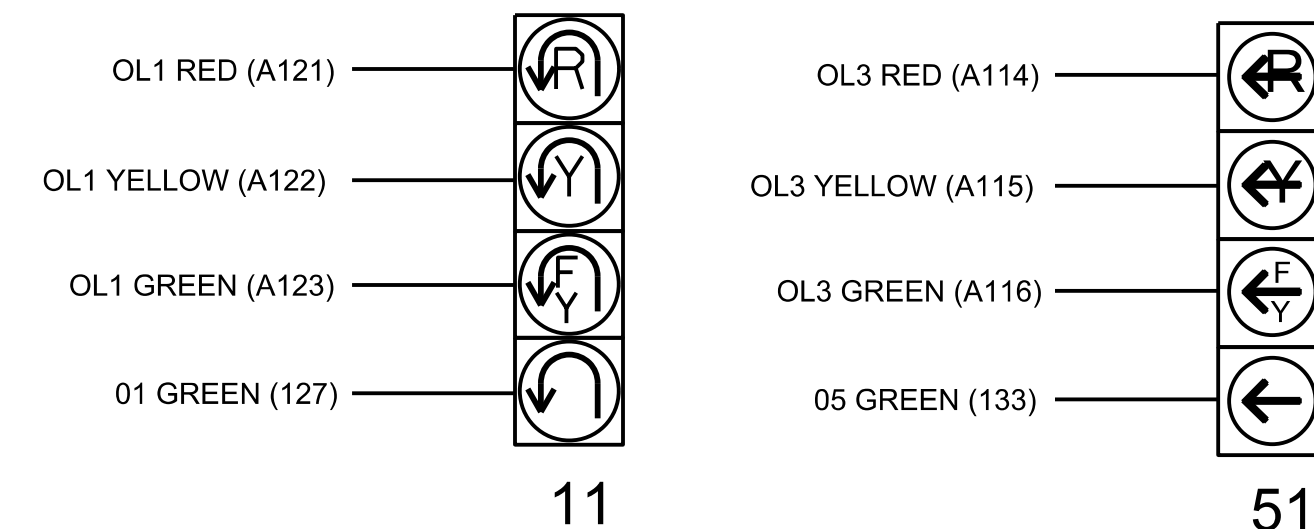
FS = FLASH SENSE  
 ST = STOP TIME

**SPECIAL DETECTOR NOTES**

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.

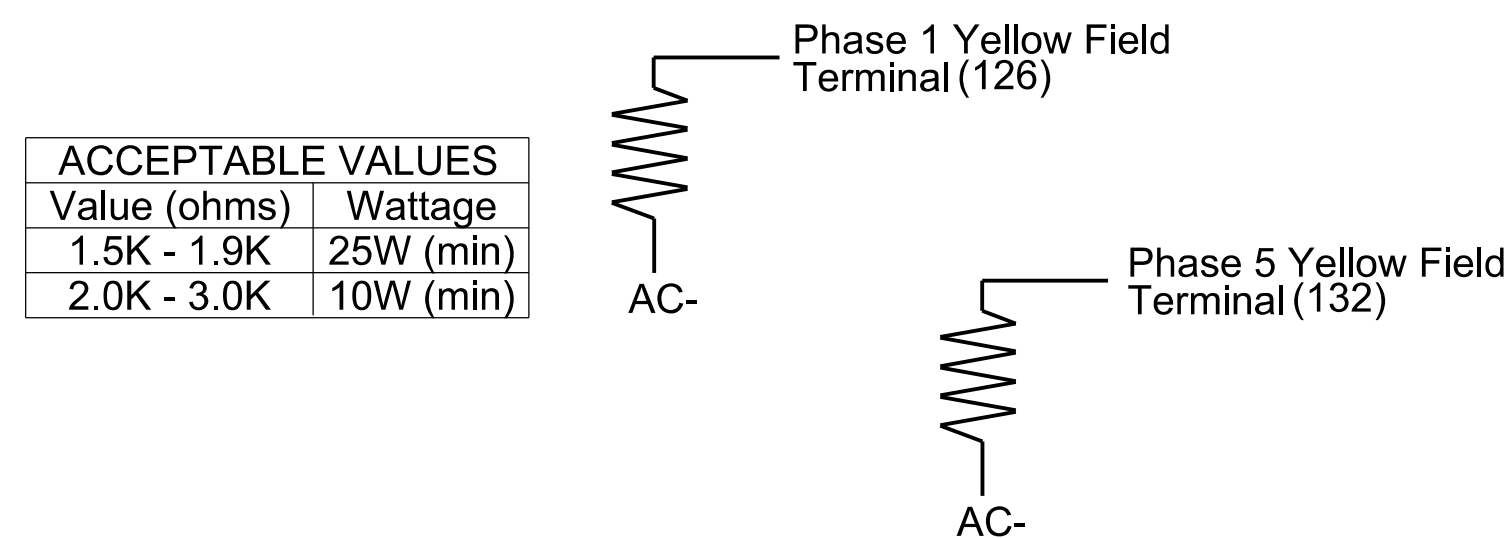
**FYA SIGNAL WIRING DETAIL**

(wire signal heads as shown)



**LOAD RESISTOR INSTALLATION DETAIL**

(install resistors as shown)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 08-0709T3  
 DESIGNED: June 2024  
 SEALED: 7/11/2024  
 REVISED:

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

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ELECTRICAL AND PROGRAMMING DETAILS FOR:  
 Prepared for:  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 Division of Signal Management  
 750 N. Greenfield Pkwy, Corner, NC 27529

NC 211  
 at  
 SR 1238 (Love Grove Church Rd)  
 Division 8 Moore County West End  
 PLAN DATE: June 2024 REVIEWED BY: R. Mullinax  
 PREPARED BY: LD Stouchko REVIEWED BY:  
 REVISIONS INIT. DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED  
 SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 034437  
 LOUI D. STOUCHEK  
 Lodi B. Stouchko  
 DATE  
 SIG. INVENTORY NO. 08-0709T3