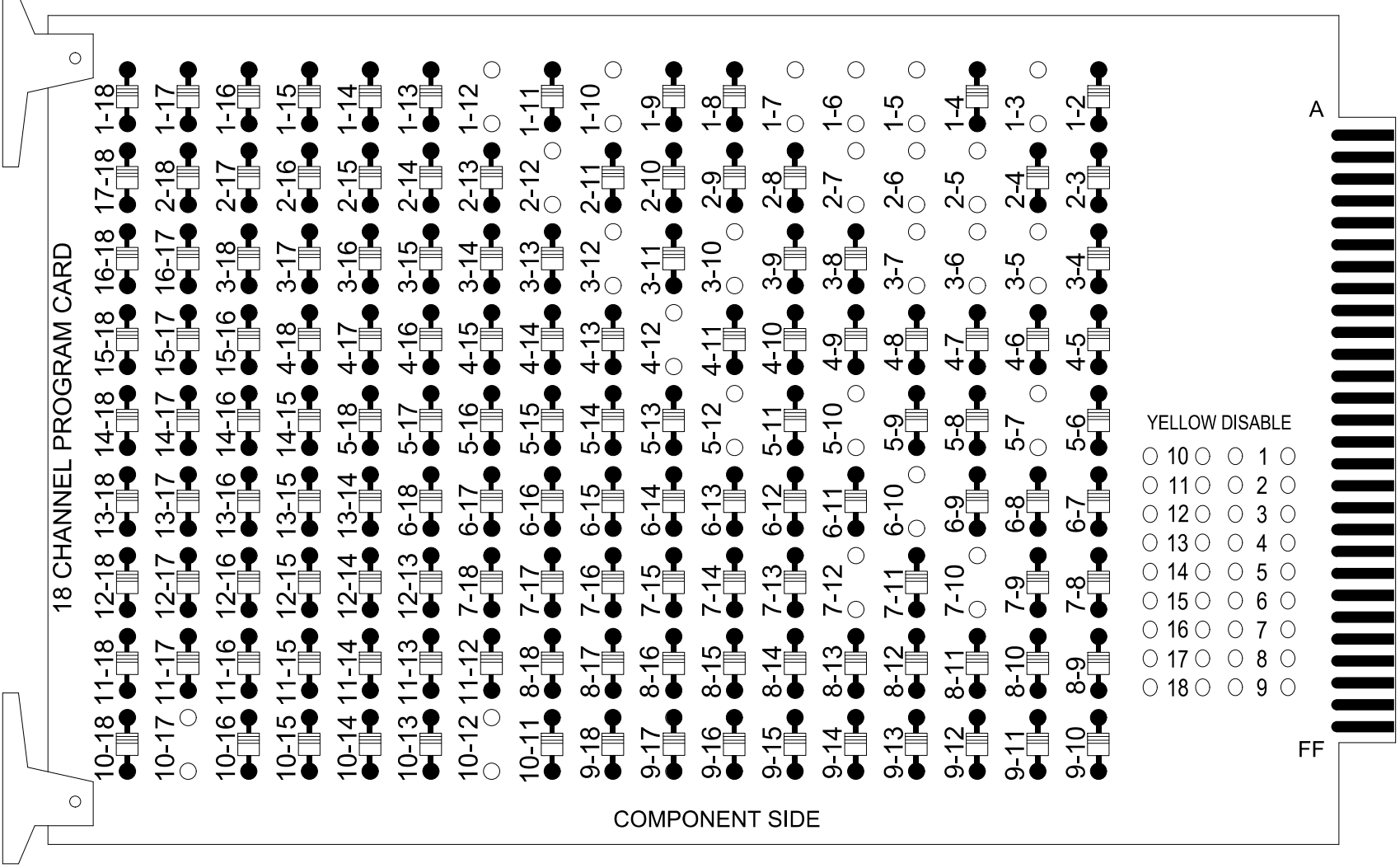


18 CHANNEL CONFLICT MONITOR  
PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-3, 1-5, 1-6, 1-7, 1-10, 1-12, 2-5, 2-6, 2-7, 2-12, 3-5, 3-6, 3-7, 3-10, 3-12, 4-12, 5-7, 5-10, 5-12, 6-10, 7-10, 7-12, 10-12, and 10-17.



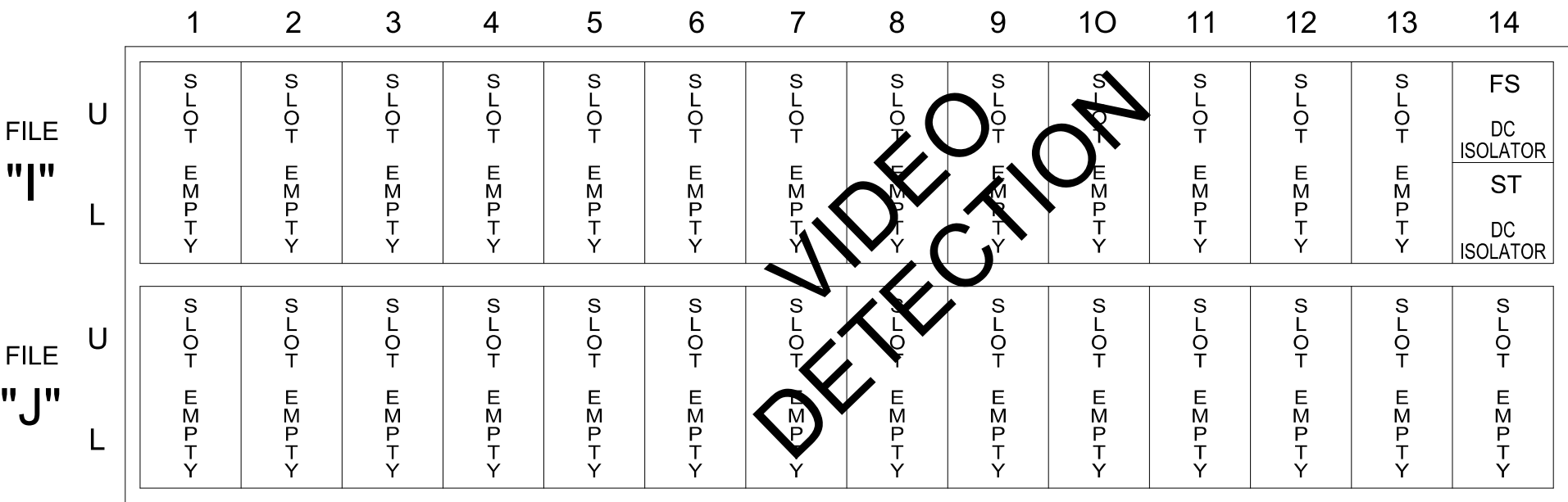
REMOVE JUMPERS AS SHOWN

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.

INPUT FILE POSITION LAYOUT

(front view)



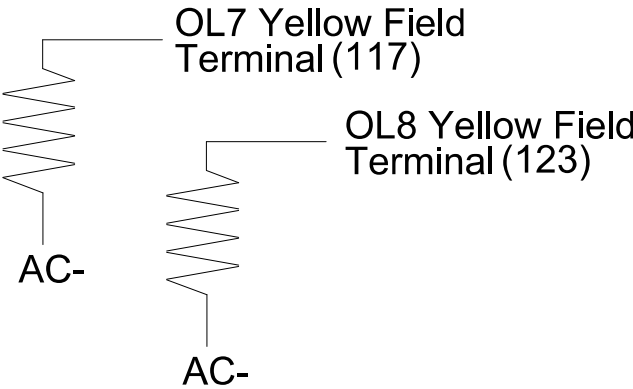
EX.: 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE  
ST = STOP TIME

LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)

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



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, S4, S5, S7, S8, S10, AUXS2,AUXS3,AUXS5  
Phases Used.....1, 2, 4, 5, 6  
Overlap "1".....NOT USED  
Overlap "2".....\*  
Overlap "3".....NOT USED  
Overlap "4".....\*  
Overlap "5".....\*  
Overlap "6".....NOT USED  
Overlap "7".....\*  
Overlap "8".....\*

\*See overlap programming detail on sheet 2

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.

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 | OL7 | 4   | 4 PED | 5   | 6   | 6 PED | OL8 | 8   | 8 PED | OL1    | OL2    | OL5    | OL3    | OL4    | SPARE  |
| SIGNAL HEAD NO.       | 11  | 21,22 | NU    | 33★ | 41  | 42    | NU  | 51  | 61,62 | NU  | 43★ | NU    | NU     | 33★    | 31     | 32,34  | NU     | 43★    |
| RED                   |     | 128   |       |     | 101 | 101   |     | 134 |       |     |     |       |        | A124   | A111   | A111   |        | A101   |
| YELLOW                |     | 129   |       | ★   | 102 | 102   |     | 135 |       | ★   |     |       |        |        | A112   | A112   |        |        |
| GREEN                 |     | 130   |       |     | 103 | 103   |     | 136 |       |     |     |       |        |        | A113   | A113   |        |        |
| RED ARROW             | 125 |       |       |     |     |       | 131 |     |       |     |     |       |        |        |        |        |        |        |
| YELLOW ARROW          | 126 |       |       |     |     |       | 132 |     |       |     |     |       |        | A125   |        |        | A102   |        |
| FLASHING YELLOW ARROW |     |       |       |     |     |       |     |     |       |     |     |       |        | A126   |        |        | A103   |        |
| GREEN ARROW           | 127 |       |       | 118 | 103 |       | 133 |     |       | 124 |     |       |        |        | A113   |        |        |        |
| Hand icon             |     |       |       |     |     |       |     |     |       |     |     |       |        |        |        |        |        |        |
| Walking person icon   |     |       |       |     |     |       |     |     |       |     |     |       |        |        |        |        |        |        |

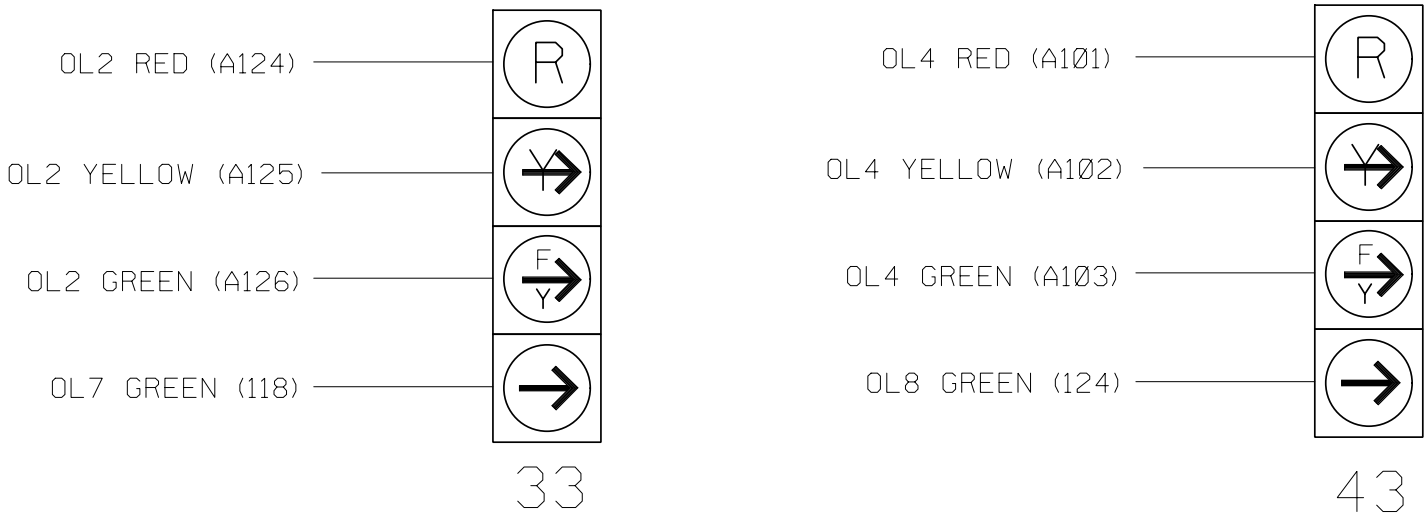
NU = Not Used

★ Denotes install load resistor. See load resistor installation detail this sheet.

★ See pictorial of head wiring in detail this sheet.

4 SECTION FYA SIGNAL WIRING DETAIL

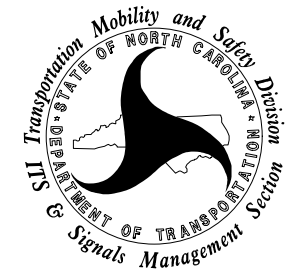
(wire signal heads as shown)



ELECTRICAL DETAIL SHEET 1 OF 2

ELECTRICAL AND PROGRAMMING  
DETAILS FOR:

Prepared for the Offices of:



stv

STV Engineers, Inc.  
2151 Hawkins St., Suite 1400  
Charlotte, NC 28203  
(704) 372-1885  
NC License Number F-0991

US 321 (Hickory Boulevard)  
at  
SR 1809/SR 1952  
(Pine Mountain Road)  
Caldwell County

|                             |                            |
|-----------------------------|----------------------------|
| Division 11                 | REVIEWED BY: B. Roth-Roffy |
| PLAN DATE: May 2026         | REVIEWED BY: T.M. Woody    |
| PREPARED BY: R.L. Aristondo | REVISIONS                  |
|                             | INIT.                      |
|                             | DATE                       |

DOCUMENT NOT CONSIDERED  
FINAL UNLESS ALL  
SIGNATURES COMPLETED



DocuSigned by  
Trent M. Woody  
5/29/2026  
DATE  
SIC. INVENTORY NO. 11-0808T1