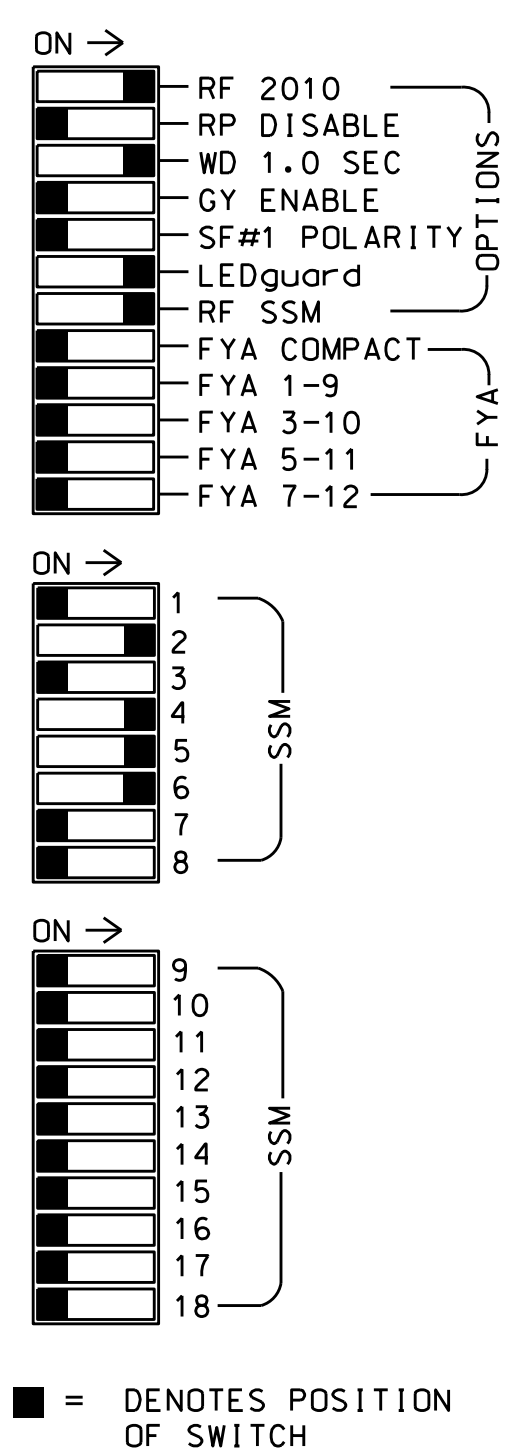
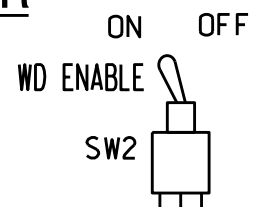
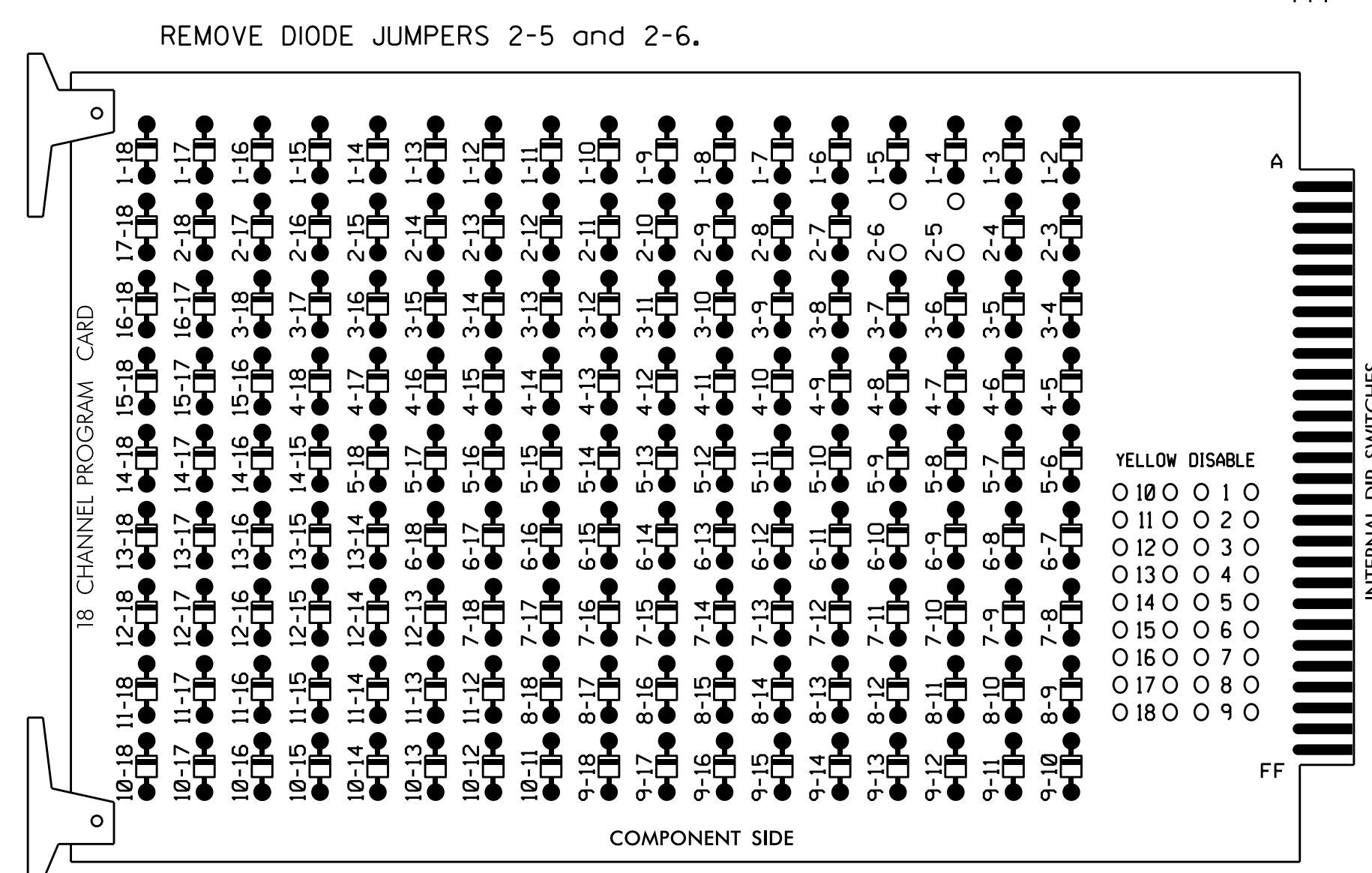


**EDI MODEL 2018ECL-NC CONFLICT MONITOR  
PROGRAMMING DETAIL**

(remove jumpers and set switches as shown)



**NOTES:**

1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
2. Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
3. Ensure that Red Enable is active at all times during normal operation.
4. Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.

**NOTES**

1. 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.
2. Enable Simultaneous Gap-Out for all Phases.
3. Program phases 2 and 6 for Variable Initial and Gap Reduction.
4. Program phases 2 and 6 for Startup In Green.
5. Program phases 2 and 6 for Yellow Flash.

**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 |
|-----------------|----|-------------|-------|----|-------------|-------|----|-----|-------------|-----|-----|-------|--------|--------|--------|--------|--------|--------|
| EMU 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. | NU | 21,22<br>23 | NU    | NU | 41,42<br>62 | NU    | 42 | 51  | 61,62<br>63 | NU  | NU  | NU    | NU     | NU     | NU     | NU     | NU     | NU     |
| RED             |    | 128         |       |    | 101         |       |    |     |             |     |     | 134   |        |        |        |        |        |        |
| YELLOW          |    | 129         |       |    | 102         |       |    |     |             |     |     | 135   |        |        |        |        |        |        |
| GREEN           |    | 130         |       |    | 103         |       |    |     |             |     |     | 136   |        |        |        |        |        |        |
| RED ARROW       |    |             |       |    |             |       |    |     |             |     |     | 131   |        |        |        |        |        |        |
| YELLOW ARROW    |    |             |       |    |             | 102   |    | 132 | 132         |     |     |       |        |        |        |        |        |        |
| GREEN ARROW     |    |             |       |    |             | 103   |    | 133 | 133         |     |     |       |        |        |        |        |        |        |

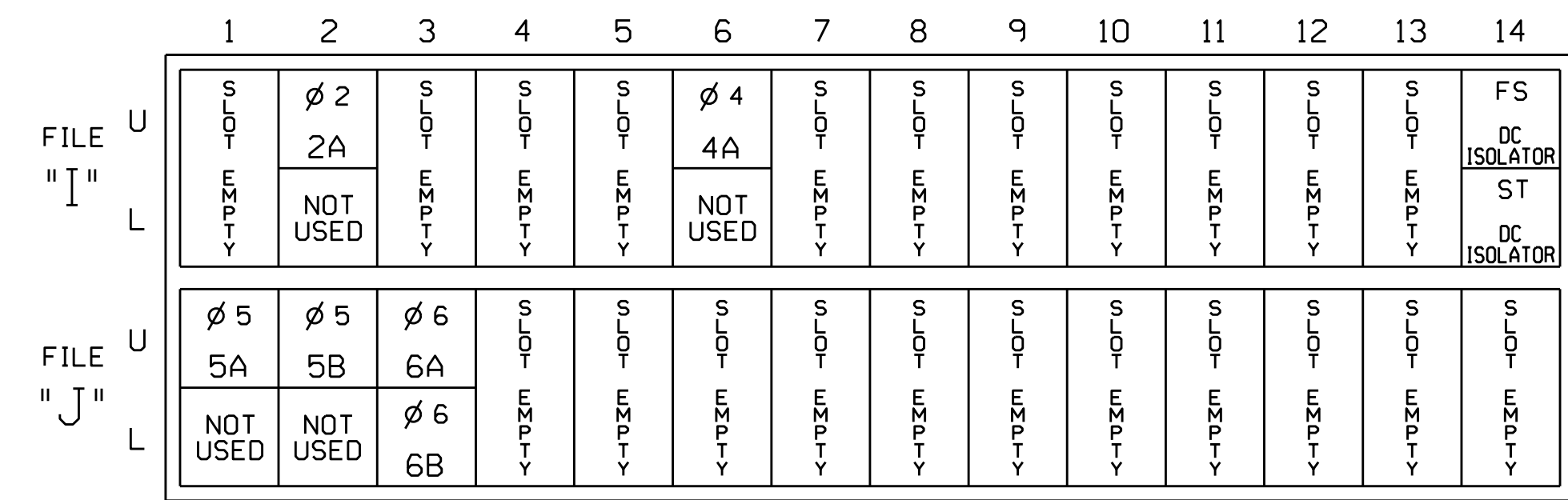
NU = Not Used

**EQUIPMENT INFORMATION**

CONTROLLER.....2070  
 CABINET.....332 W/ AUX  
 SOFTWARE.....ECONOLITE OASIS  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE  
 LOAD SWITCHES USED.....S2,S5,S7,S8  
 PHASES USED.....2,4,5,6  
 OVERLAP 'A'.....NOT USED  
 OVERLAP 'B'.....NOT USED  
 OVERLAP 'C'.....NOT USED  
 OVERLAP 'D'.....NOT USED

**INPUT FILE POSITION LAYOUT**

(front view)



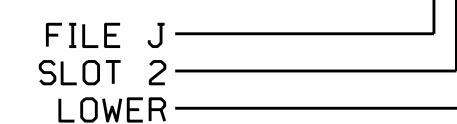
EX.: 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE  
 ST = STOP TIME

**INPUT FILE CONNECTION & PROGRAMMING CHART**

| LOOP NO. | LOOP TERMINAL | INPUT FILE POS. | PIN NO. | INPUT ASSIGNMENT NO. | DETECTOR NO. | NEMA PHASE | CALL | EXTEND | FULL TIME DELAY | STRETCH TIME | DELAY TIME |
|----------|---------------|-----------------|---------|----------------------|--------------|------------|------|--------|-----------------|--------------|------------|
| 2A       | TB2-5,6       | I2U             | 39      | 1                    | 2            | 2          | Y    | Y      |                 |              |            |
| 4A       | TB4-9,10      | I6U             | 41      | 3                    | 4            | 4          | Y    | Y      |                 |              | 3          |
| 5A       | TB3-1,2       | J1U             | 55      | 17                   | 5            | 5          | Y    | Y      |                 |              |            |
| 5B       | TB3-5,6       | J2U             | 40      | 2                    | 6            | 5          | Y    | Y      |                 |              | 15         |
| 6A       | TB3-9,10      | J3U             | 64      | 26                   | 36           | 6          | Y    | Y      |                 |              |            |
| 6B       | TB3-11,12     | J3L             | 77      | 39                   | 46           | 6          | Y    | Y      |                 |              |            |

INPUT FILE POSITION LEGEND: J2L



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 11-1054  
 DESIGNED: October 2021  
 SEALED: 10-28-21  
 REVISED: N/A

**THIS ELECTRICAL DETAIL SUPERSEDES THE DETAIL SEALED ON 5/30/2019.**

Electrical Detail - Final Design

Prepared In the Offices of:  
  
 750 N. Greenfield Pkwy, Garner, NC 27529

NC 105 at SR 1112 (Camp Broadstone Rd.)

Division 11 Watauga County Boone

PLAN DATE: October 2021 REVIEWED BY:  
 PREPARED BY: James Peterson REVIEWED BY:

REVISIONS: INIT. DATE

DocuSigned by: Ryan W. Hough 10/28/2021

SIG. INVENTORY NO. 11-1054

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 036833  
 RYAN W. HOUGH

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