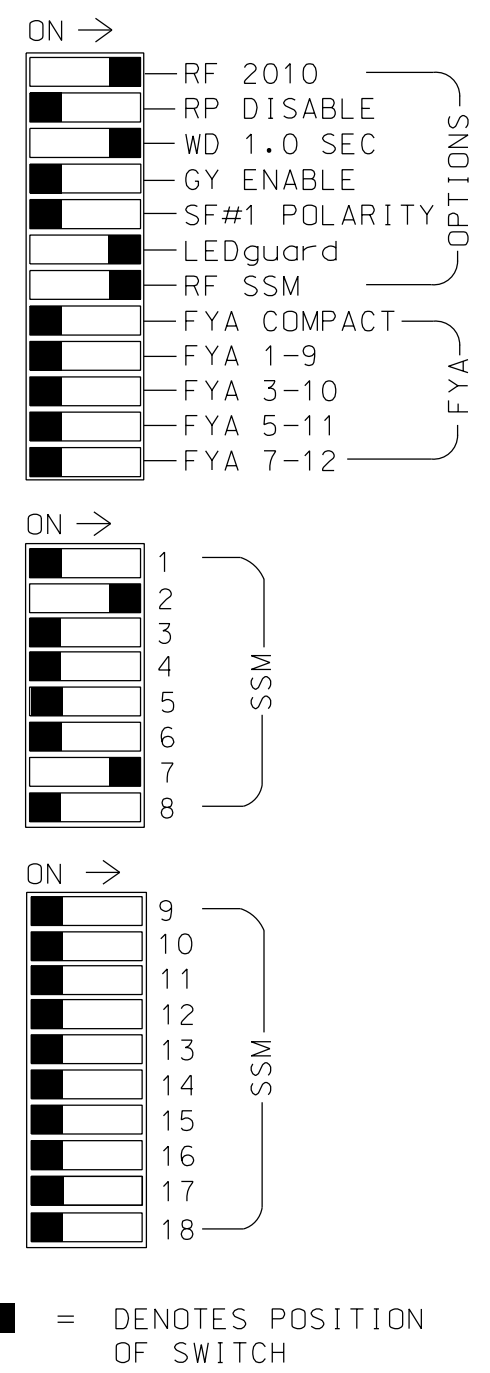
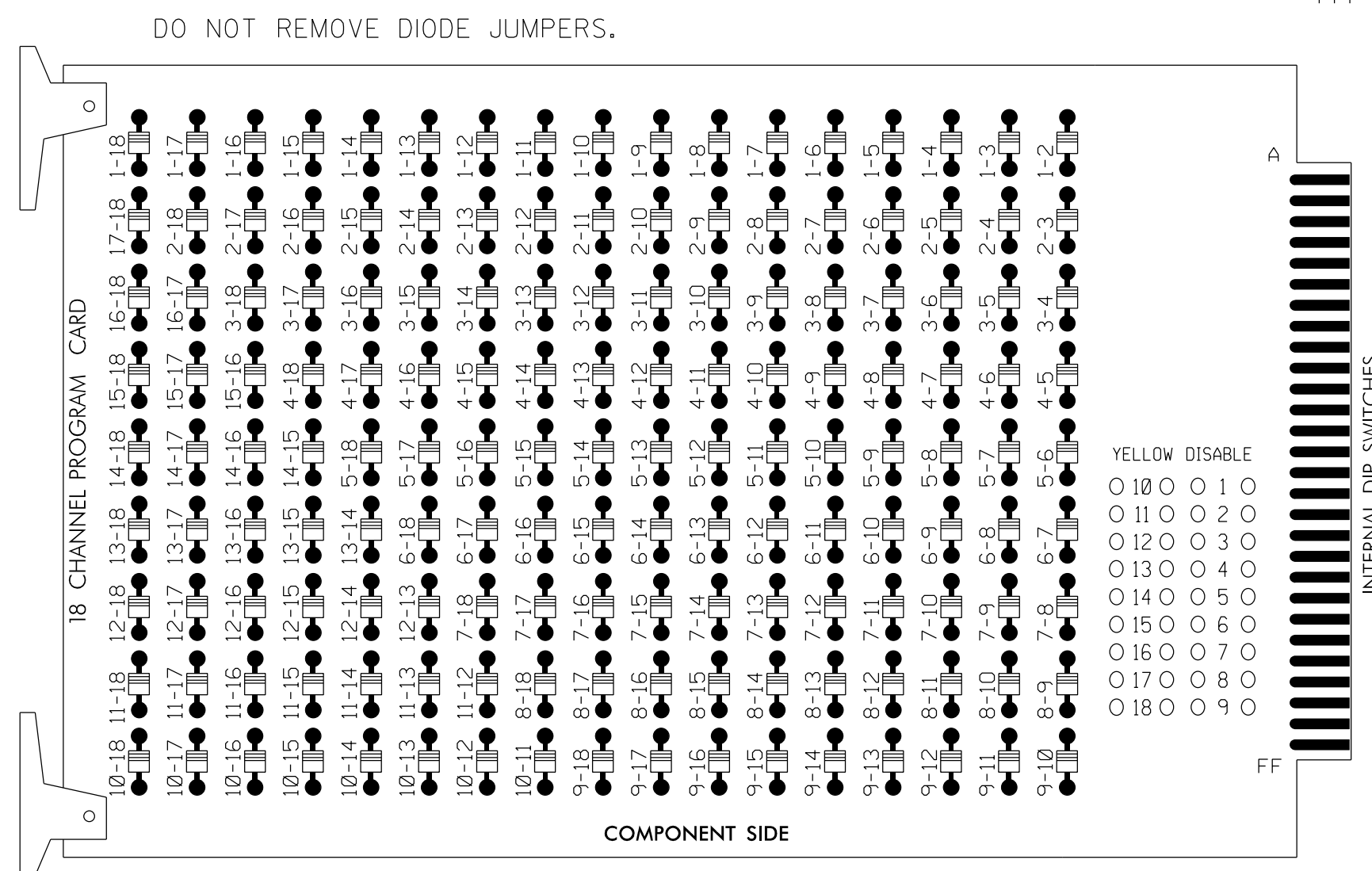


### EDI MODEL 2018ECLIP-NC CONFLICT MONITOR PROGRAMMING DETAIL

(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. Integrate monitor with Ethernet network in cabinet.

### 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 for Variable Initial and Gap Reduction.
4. Program phase 2 for Start Up In Green.
5. Program phase 2 for Yellow Flash.
6. The cabinet and controller are part of the Rocky Mount Signal System.

### EQUIPMENT INFORMATION

CONTROLLER.....2070E  
 CABINET.....332  
 SOFTWARE.....ECONOLITE OASIS  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...12  
 LOAD SWITCHES USED.....S2,S10  
 PHASES USED.....2,7  
 OVERLAP "A".....NOT USED  
 OVERLAP "B".....NOT USED  
 OVERLAP "C".....NOT USED  
 OVERLAP "D".....NOT USED

|                       |           |
|-----------------------|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-3330                | Sig. 13.3 |

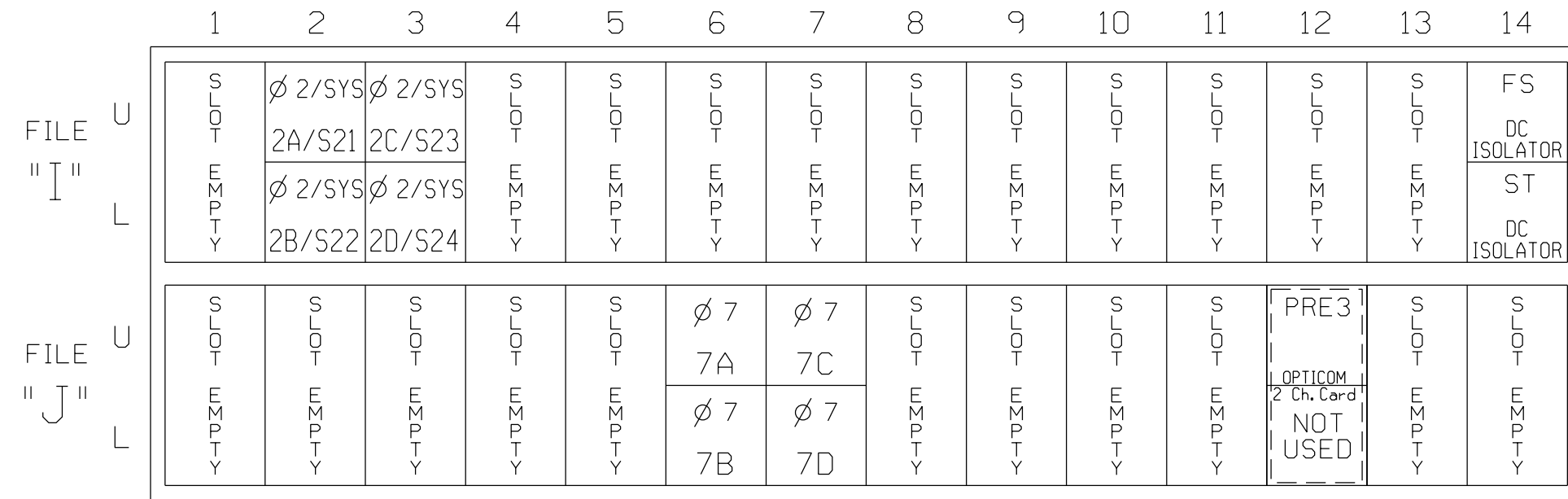
### SIGNAL HEAD HOOK-UP CHART

| LOAD SWITCH NO. | S1 | S2           | S3    | S4 | S5 | S6    | S7 | S8 | S9    | S10   | S11       | S12   |
|-----------------|----|--------------|-------|----|----|-------|----|----|-------|-------|-----------|-------|
| CMU CHANNEL NO. | 1  | 2            | 13    | 3  | 4  | 14    | 5  | 6  | 15    | 7     | 8         | 16    |
| PHASE           | 1  | 2            | 2 PED | 3  | 4  | 4 PED | 5  | 6  | 6 PED | 7     | 8         | 8 PED |
| SIGNAL HEAD NO. | NU | 21,22, 23,24 | NU    | NU | NU | NU    | NU | NU | NU    | 71,72 | 73,74, 75 | NU    |
| RED             |    | 128          |       |    |    |       |    |    |       |       | 122       |       |
| YELLOW          |    | 129          |       |    |    |       |    |    |       |       |           |       |
| GREEN           |    | 130          |       |    |    |       |    |    |       |       |           |       |
| RED ARROW       |    |              |       |    |    |       |    |    |       | 122   |           |       |
| YELLOW ARROW    |    |              |       |    |    |       |    |    |       | 123   | 123       |       |
| GREEN ARROW     |    |              |       |    |    |       |    |    |       | 124   | 124       |       |

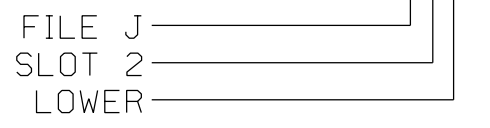
NU = Not Used

### INPUT FILE POSITION LAYOUT

(front view)

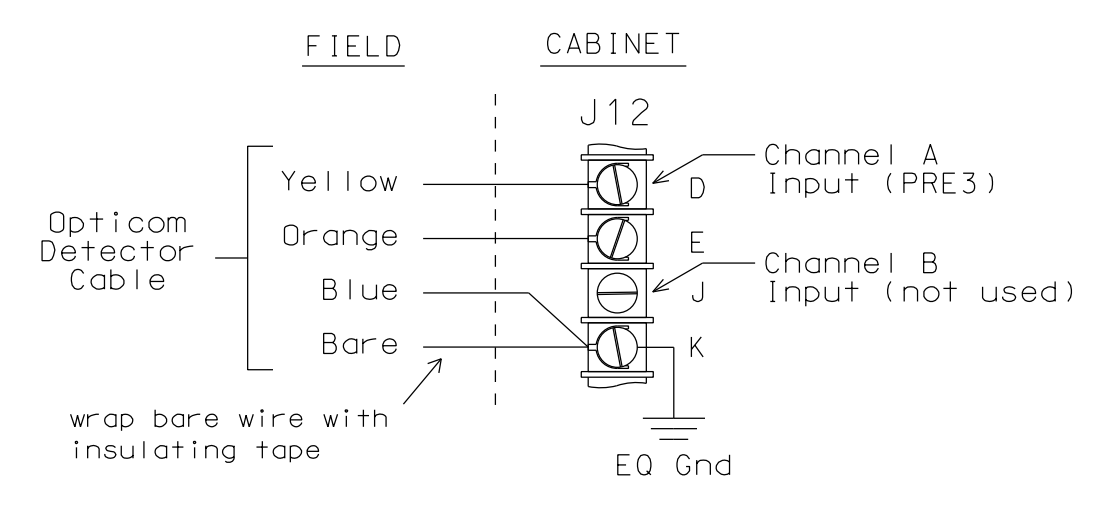


### INPUT FILE POSITION LEGEND: J2L



### TYPICAL OPTICOM FIELD WIRE DETAIL

(input file, rear view)



### 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/S21   | TB2-5,6       | I2U             | 39      | 1                    | 2            | 2/SYS      | Y    | Y      |                 |              |            |
| 2B/S22   | TB2-7,8       | I2L             | 43      | 5                    | 12           | 2/SYS      | Y    | Y      |                 |              |            |
| 2C/S23   | TB2-9,10      | I3U             | 63      | 25                   | 32           | 2/SYS      | Y    | Y      |                 |              |            |
| 2D/S24   | TB2-11,12     | I3L             | 76      | 38                   | 42           | 2/SYS      | Y    | Y      |                 |              |            |
| 7A       | TB5-9,10      | J6U             | 42      | 4                    | 8            | 7          | Y    | Y      |                 |              |            |
| 7B       | TB5-11,12     | J6L             | 46      | 8                    | 18           | 7          | Y    | Y      |                 |              |            |
| 7C       | TB7-1,2       | J7U             | 66      | 28                   | 38           | 7          | Y    | Y      |                 |              | 15         |
| 7D       | TB7-3,4       | J7L             | 79      | 41                   | 48           | 7          | Y    | Y      |                 |              | 15         |

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 04-1411  
 DESIGNED: November 2016  
 SEALED: 1/30/2017  
 REVISED:

### EMERGENCY VEHICLE PREEMPTION PROGRAMMING DETAIL

(program controller as shown below)

From Main Menu press 'A' (Preemption), then '1' (Standard Preemptions). Press 'NEXT' to advance to Preemption #3.

| PREEMPTION #3                            | SETTINGS (NEXT:1-10)    |
|--|-------------------------|
| INTERVAL/TIMING                          | CLEAR/DWELL PHASES      |
| GRN YEL RED                              | 12345678910111213141516 |
| 1 255 0.0 0.0                            | X                       |
| 2 0 0.0 0.0                              |                         |
| 3 0 0.0 0.0                              |                         |
| 4 0 0.0 0.0                              |                         |
| 5 0 0.0 0.0                              |                         |
| EXIT CALLS                               |                         |
| OPTIONS                                  |                         |
| PRIORITY (Y/N TO SELECT) .....           | MED                     |
| DELAY TIMER (0-255 SEC) .....            | 0                       |
| MIN GREEN BEFORE PRE (0= DEFAULT)....    | 1                       |
| PED CLEAR BEFORE PRE (0= DEFAULT)....    | 0                       |
| YELLOW CLEAR BEFORE PRE (0= DEFAULT).... | 0                       |
| RED CLEAR BEFORE PRE (0= DEFAULT)....    | 0                       |
| DWELL MIN TIMER (0-255 SEC) .....        | 12                      |
| DWELL MAX TIMER (0=OFF,1-255MIN) ....    | 0                       |
| DWELL HOLD-OVER TIMER (0-255) .....      | 0                       |
| LATCH CALL? .....                        | N                       |
| LINK TO NEXT PREEMPT? .....              | N                       |
| ENABLE BACKUP PROTECTION? .....          | N                       |
| HOLD CLEAR 1 PHASES DURING DELAY? ...    | N                       |
| FAST GREEN FLASH DWELL PHASES? .....     | N                       |
| PED CLEARANCE THROUGH YELLOW? .....      | N                       |
| INHIBIT OVERLAP GREEN EXTENSION? .....   | N                       |
| SERVICE DURING SOFTWARE FLASH? .....     | N                       |
| REST IN RED DURING DWELL INTERVAL? ..    | N                       |
| FLASH DWELL INTERVAL? .....              | N                       |
| ALLOW PEDS IN DWELL INTERVAL? .....      | N                       |
| RE-TIME DWELL INTERVAL? .....            | N                       |
| OVERLAPS: .....                          | ABCDEFGHIJKLMNOP        |
| DWELL INT FLASH YELLOW                   |                         |
| OMIT OVERLAPS:                           |                         |

PROGRAMING COMPLETE

Program extend time an optical detector unit for 5.0 seconds.

### ELECTRICAL DETAIL - Final Design

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared for the Offices of:

**NB US 301 Byp**  
 (N. Wesleyan Blvd)  
 at  
 Sutters Creek Blvd

Division 04 Nash County Rocky Mount

PLAN DATE: November 2016 REVIEWED BY: MB Toth

PREPARED BY: AM Encarnacion REVIEWED BY:

REVISIONS

INIT. DATE

Designed by: Melissa B. Toth 1/30/2017

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER MELISSA B. TOTH

SIG. INVENTORY NO. 04-1411