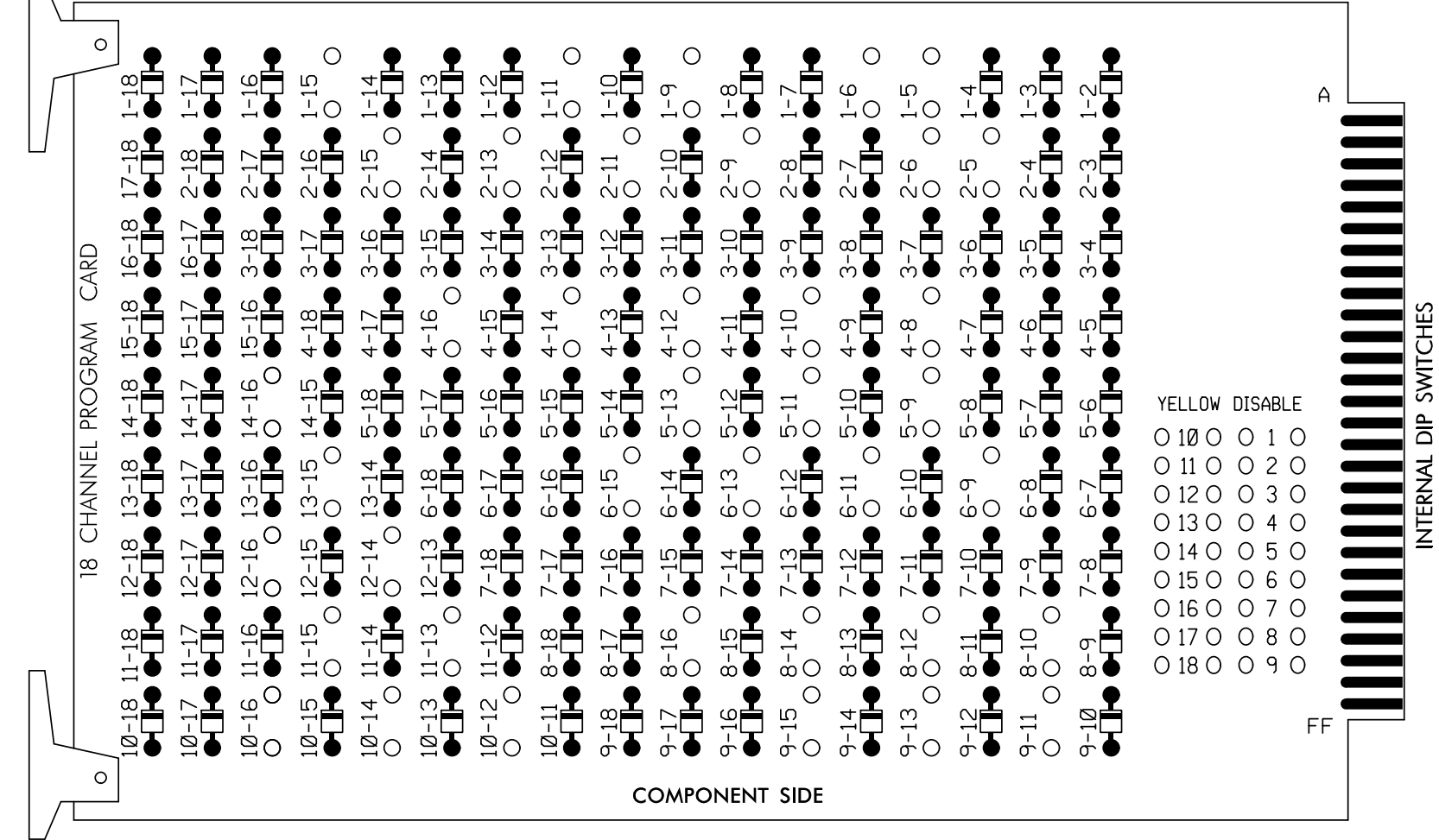


### EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

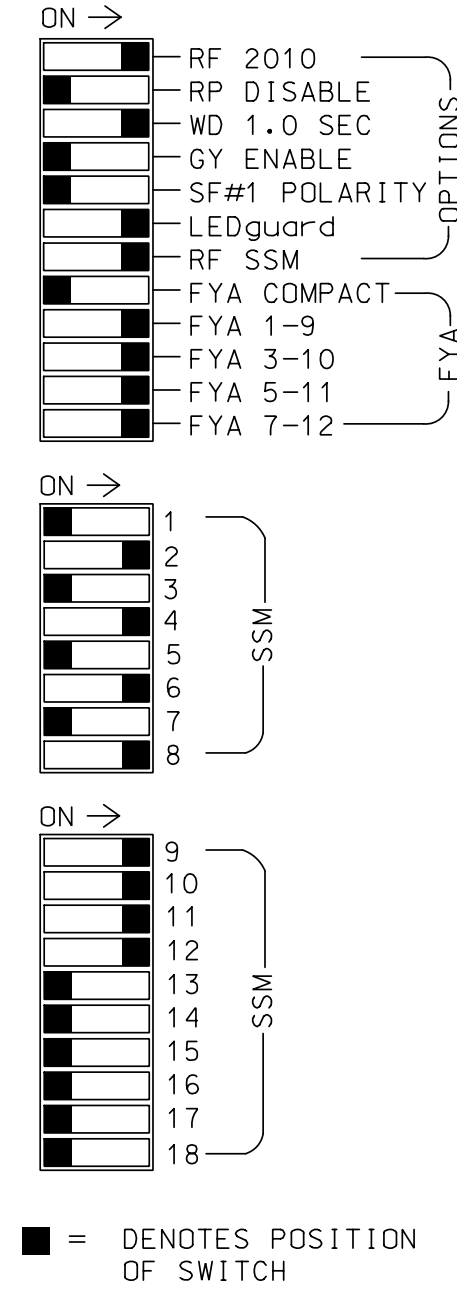
REMOVE DIODE JUMPERS: 1-5, 1-6, 1-9, 1-11, 1-15, 2-5, 2-6, 2-9, 2-11, 2-13, 2-15, 4-8, 4-10, 4-12, 4-14, 4-16, 5-9, 5-11, 5-13, 6-9, 6-11, 6-13, 6-15, 8-10, 8-12, 8-14, 8-16, 9-11, 9-13, 9-15, 10-12, 10-14, 10-16, 11-13, 11-15, 12-14, 12-16, 13-15 and 14-16



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 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 Plans.
- Program phases 4 and 8 for Dual Entry.
- Enable Simultaneous Gap-Out for all Phases.
- Program phases 2 and 6 for Variable Initial and Gap Reduction.
- Program phases 2 and 6 for Startup In Green.
- Program phases 2, 4, 6, and 8 for Startup Ped Call.
- Program phases 2 and 6 for Yellow Flash, and overlaps 1 and 2 as Wag Overlaps.

### 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.....S1,S2,S3,S5,S6,S7,S8,S9,S11,S12,  
 AUX S1,AUX S2,AUX S4, AUX S5  
 PHASES USED.....1,2,2PED,4,4PED,5,6,6PED,8,8PED  
 OVERLAP "A".....1+2  
 OVERLAP "B".....4  
 OVERLAP "C".....5+6  
 OVERLAP "D".....8

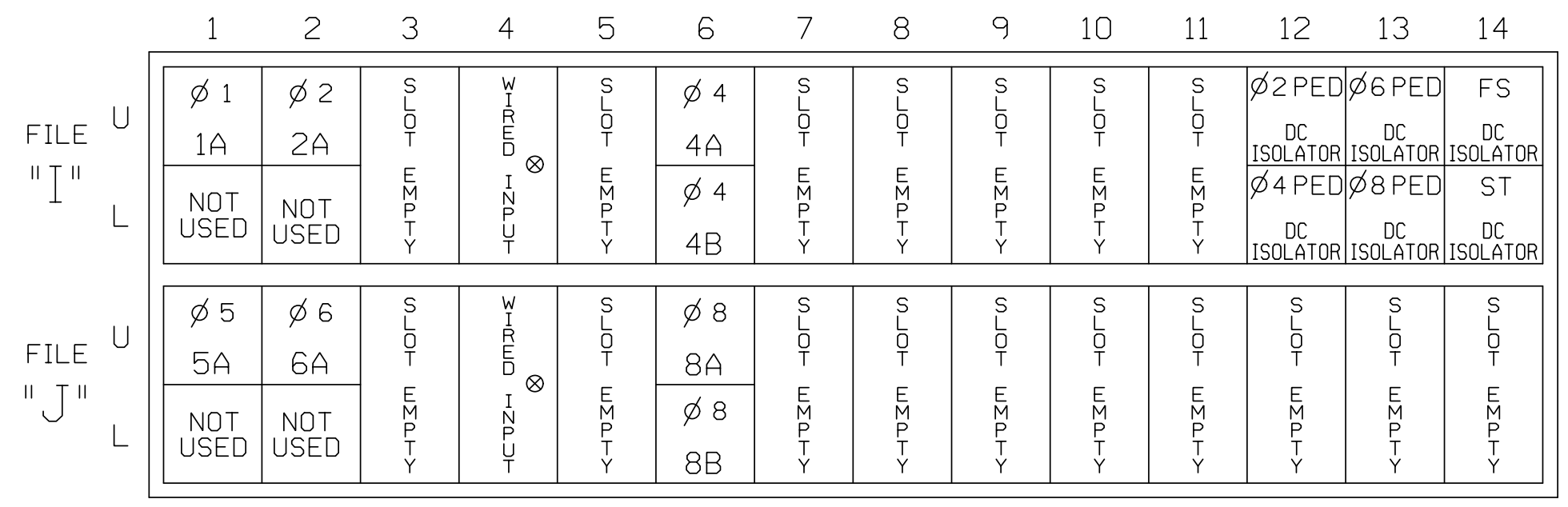
### SIGNAL HEAD HOOK-UP CHART

| 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    | OLA    | OLB    | SPARE  | OLC    | OLD    | SPARE  |
| SIGNAL HEAD NO.       | 11  | 21,22 | P21, P22 | NU  | 42,43 | P41, P42 | 51 | 61,62 | P61, P62 | NU  | 82,83 | P81, P82 | 11     | 81     | NU     | 51     | 41     | NU     |
| RED                   |     | 128   |          |     | 101   |          |    | 134   |          |     | 107   |          |        |        |        |        |        |        |
| YELLOW                | *   | 129   |          |     | 102   |          | *  | 135   |          |     | 108   |          |        |        |        |        |        |        |
| GREEN                 |     | 130   |          |     | 103   |          |    | 136   |          |     | 109   |          |        |        |        |        |        |        |
| RED ARROW             |     |       |          |     |       |          |    |       |          |     |       |          | A121   | A124   |        | A114   | A101   |        |
| YELLOW ARROW          |     |       |          |     |       |          |    |       |          |     |       |          | A122   | A125   |        | A115   | A102   |        |
| FLASHING YELLOW ARROW |     |       |          |     |       |          |    |       |          |     |       |          | A123   | A126   |        | A116   | A103   |        |
| GREEN ARROW           | 127 |       |          |     |       |          |    | 133   |          |     |       |          |        |        |        |        |        |        |
| Hand                  |     |       |          | 113 |       | 104      |    |       | 119      |     |       | 110      |        |        |        |        |        |        |
| Walking               |     |       |          | 115 |       | 106      |    |       | 121      |     |       | 112      |        |        |        |        |        |        |

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  
 ⊗ Wired Input - Do not populate slot with detector card

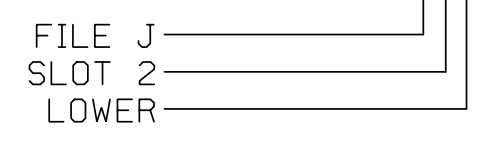
### INPUT FILE CONNECTION & PROGRAMMING CHART

| 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 |
|------------------|---------------|-----------------|---------|----------------------|--------------|------------|------|--------|-----------------|--------------|------------|
| 1A <sup>1</sup>  | TB2-1,2       | I1U             | 56      | 18                   | 1            | 1          | Y    | Y      |                 |              | 15         |
|                  | -             | J4U             | 48      | 10★                  | 26           | 6          | Y    | Y      | Y               |              | 3          |
|                  | -             | I1U             | 56      | 18★                  | 51           | 1          | Y    | Y      |                 |              | 3          |
| 2A               | TB2-5,6       | I2U             | 39      | 1                    | 2            | 2          | Y    | Y      |                 |              |            |
|                  | 4A            | TB4-9,10        | I6U     | 41                   | 3            | 4          | Y    | Y      |                 |              | 3          |
|                  | 4B            | TB4-11,12       | I6L     | 45                   | 7            | 14         | 4    | Y      | Y               |              | 10         |
| 5A <sup>2</sup>  | TB3-1,2       | J1U             | 55      | 17                   | 5            | 5          | Y    | Y      |                 |              | 15         |
|                  | -             | I4U             | 47      | 9★                   | 22           | 2          | Y    | Y      | Y               |              | 3          |
|                  | -             | J1U             | 55      | 17★                  | 55           | 5          | Y    | Y      |                 |              | 3          |
| 6A               | TB3-5,6       | J2U             | 40      | 2                    | 6            | 6          | Y    | Y      |                 |              |            |
| 8A               | TB5-9,10      | J6U             | 42      | 4                    | 8            | 8          | Y    | Y      |                 |              | 3          |
| 8B               | TB5-11,12     | J6L             | 46      | 8                    | 18           | 8          | Y    | Y      |                 |              | 10         |
| PED PUSH BUTTONS |               |                 |         |                      |              |            |      |        |                 |              |            |
| P21,P22          | TB8-4,6       | I12U            | 67      | 29                   | PED 2        | 2 PED      |      |        |                 |              |            |
| P41,P42          | TB8-5,6       | I12L            | 69      | 31                   | PED 4        | 4 PED      |      |        |                 |              |            |
| P61,P62          | TB8-7,9       | I13U            | 68      | 30                   | PED 6        | 6 PED      |      |        |                 |              |            |
| P81,P82          | TB8-8,9       | I13L            | 70      | 32                   | PED 8        | 8 PED      |      |        |                 |              |            |

NOTE:  
 INSTALL DC ISOLATORS IN INPUT FILE SLOTS 112 AND 113.

- Add jumper from I1-W to J4-W, on rear of input file.
  - Add jumper from J1-W to I4-W, on rear of input file.
- ★ See Input Page Assignment programming details on sheets 3 and 4.

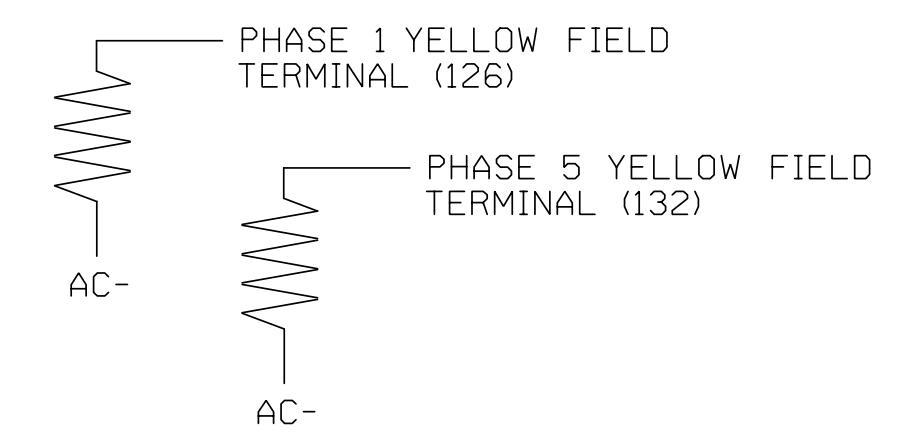
### INPUT FILE POSITION LEGEND: J2L



### LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown below)

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



### COUNTDOWN PEDESTRIAN SIGNAL OPERATION

Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

PLANS PREPARED IN THE OFFICE OF:  
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THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 04-1440  
 DESIGNED: SEPTEMBER 2018  
 SEALED: 6/30/20  
 REVISED: N/A

Electrical Detail - Sheet 1 of 5

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

Prepared For: **SR 1709 (CENTRAL HEIGHTS ROAD) AT FALLIN BOULEVARD**

DIVISION 4 WAYNE COUNTY GOLDSBORO

PLAN DATE: SEPTEMBER 2018 REVIEWED BY: SL PHILLIPS

PREPARED BY: SP PENNINGTON REVIEWED BY:

REVISIONS: INIT. DATE

6/30/2020

SIG. INVENTORY NO. 04-1440