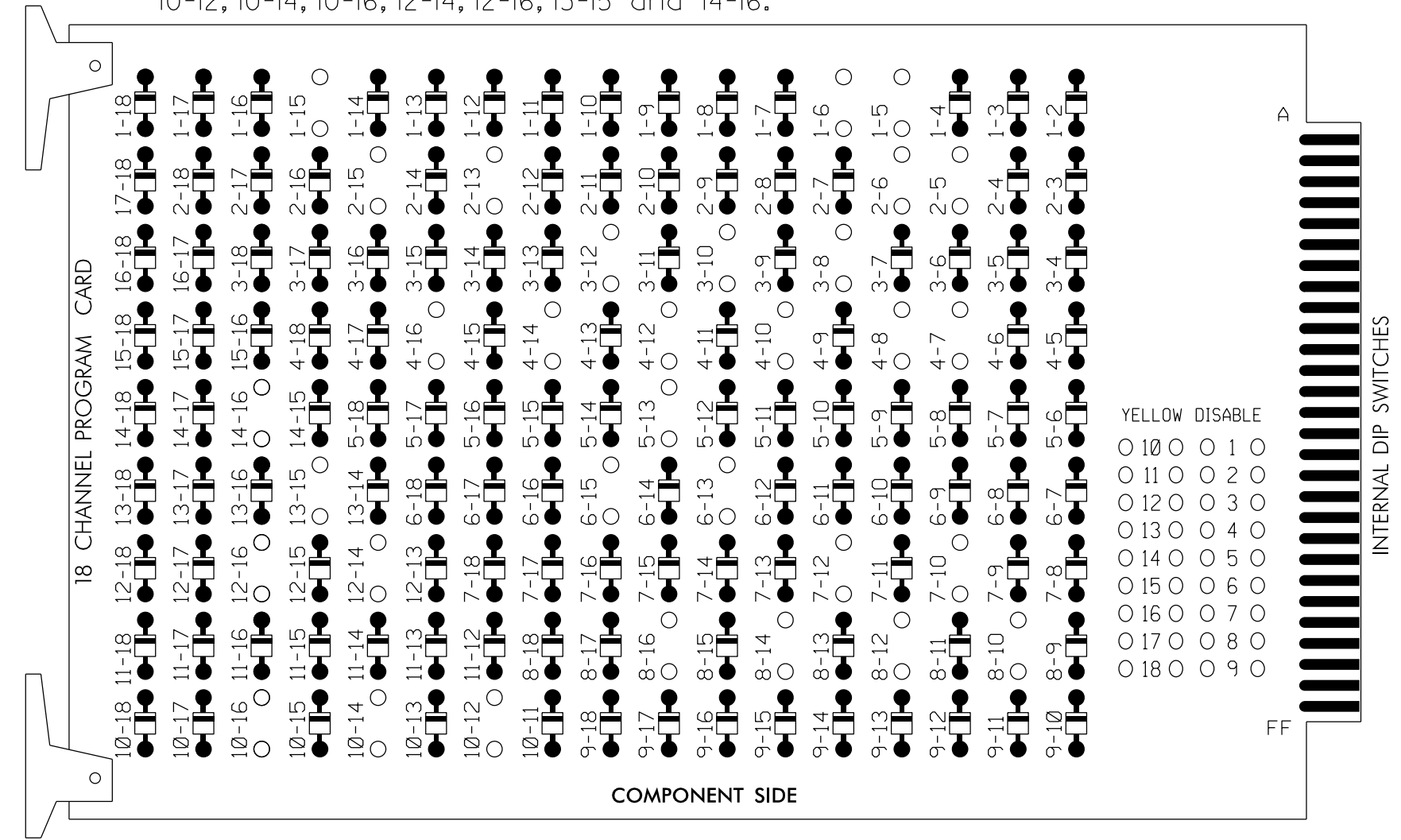


### EDI MODEL 2018EClip-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-5, 1-6, 1-15, 2-5, 2-6, 2-13, 2-15, 3-8, 3-10, 3-12, 4-7, 4-8, 4-10, 4-12, 4-14, 4-16, 5-13, 6-13, 6-15, 7-10, 7-12, 8-10, 8-12, 8-14, 8-16, 10-12, 10-14, 10-16, 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.
- Integrate monitor with Ethernet network in cabinet.

■ = DENOTES POSITION OF SWITCH

### 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.
- Program controller to start up in phase 2 WALK and 6 WALK.
- The cabinet and controller are part of the Elizabeth City Signal System.

### EQUIPMENT INFORMATION

CONTROLLER.....2070LX  
 CABINET.....332 W/AUX  
 SOFTWARE.....ECONOLITE ASC/3-2070  
 CABINET MOUNT.....BASE  
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE  
 LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6,S7,S8,S9,S10,  
 S11,S12,AUX S2,AUX S5  
 PHASES USED.....1,2,2PED,3\*\*,4,4PED,5,6,6PED,  
 7\*\*,8,8PED  
 OVERLAP "A".....NOT USED  
 OVERLAP "B".....\*  
 OVERLAP "C".....NOT USED  
 OVERLAP "D".....\*  
 \* See overlap programming detail on sheet 2  
 \*\* Phase only used during preempt

### 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 | 31  | 41,42 | P41, P42 | 51 | 61,62 | P61, P62 | 71  | 81,82 | P81, P82 | NU     | 31     | NU     | NU     | 71     | NU     |
| RED                   |     | 128   |          |     | 101   |          |    | 134   |          |     | 107   |          |        |        |        |        |        |        |
| YELLOW                |     | 129   |          | *   | 102   |          |    | 135   |          | *   | 108   |          |        |        |        |        |        |        |
| GREEN                 |     | 130   |          |     | 103   |          |    | 136   |          |     | 109   |          |        |        |        |        |        |        |
| RED ARROW             | 125 |       |          |     |       |          |    | 131   |          |     |       |          |        | A124   |        |        |        | A101   |
| YELLOW ARROW          | 126 |       |          |     |       |          |    | 132   |          |     |       |          |        | A125   |        |        |        | A102   |
| FLASHING YELLOW ARROW |     |       |          |     |       |          |    |       |          |     |       |          |        | A126   |        |        |        | A103   |
| GREEN ARROW           | 127 |       |          | 118 |       |          |    | 133   |          | 124 |       |          |        |        |        |        |        |        |
| Hand                  |     |       |          | 113 |       |          |    | 104   |          | 119 |       |          |        | 110    |        |        |        |        |
| Walking               |     |       |          | 115 |       |          |    | 106   |          | 121 |       |          |        | 112    |        |        |        |        |

NU = Not Used

\* Denotes install load resistor. See load resistor installation detail this sheet.

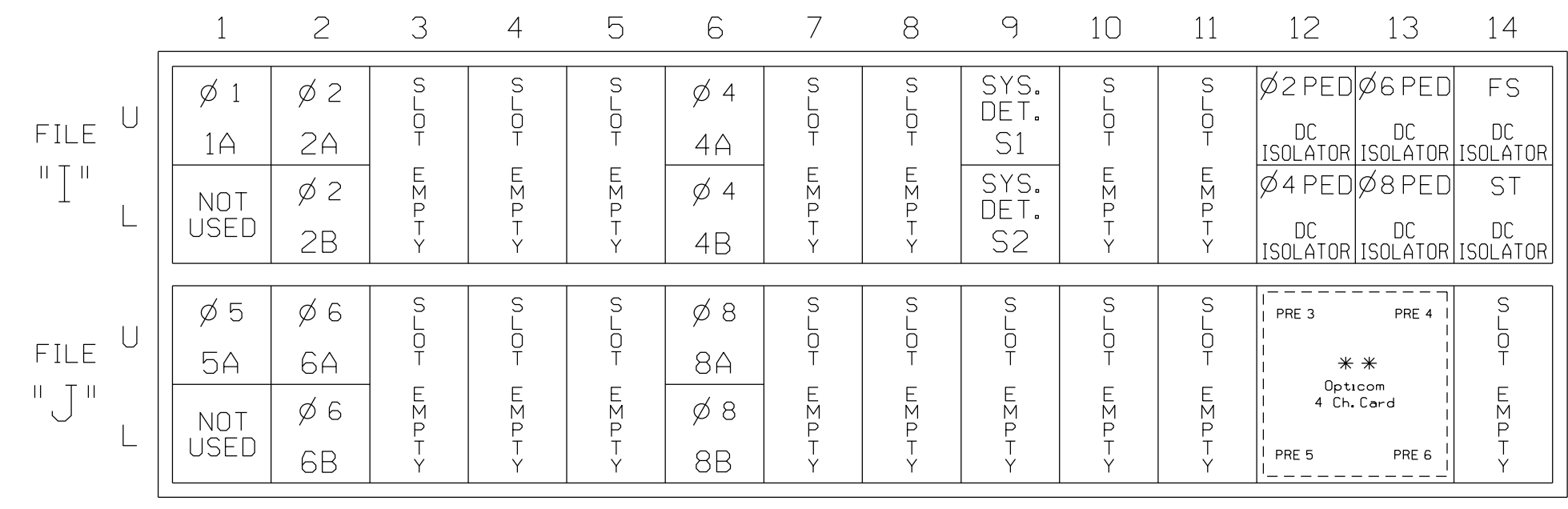
★ See pictorial of head wiring in detail this sheet.

### 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.

### INPUT FILE POSITION LAYOUT

(front view)



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

FS = FLASH SENSE  
 ST = STOP TIME  
 PRE = PREEMPT

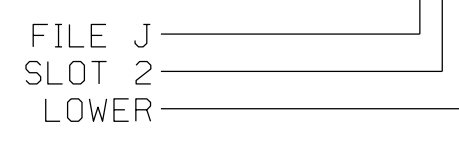
### INPUT FILE CONNECTION & PROGRAMMING CHART

| LOOP NO.         | LOOP TERMINAL | INPUT FILE POS. | PIN NO. | DETECTOR NO. | NEMA PHASE | CALL | EXTEND TIME | DELAY TIME | ADDED INITIAL | DETECTOR TYPE |
|------------------|---------------|-----------------|---------|--------------|------------|------|-------------|------------|---------------|---------------|
| 1A               | TB2-1,2       | I1U             | 56      | 1            | 1          | YES  |             | 3          |               | S             |
| 2A               | TB2-5,6       | I2U             | 39      | 2            | 2          | YES  |             |            |               | N             |
| 2B               | TB2-7,8       | I2L             | 43      | 2            | 2          | YES  |             |            |               | N             |
| 4A               | TB4-9,10      | I6U             | 41      | 4            | 4          | YES  |             | 3          |               | S             |
| 4B               | TB4-11,12     | I6L             | 45      | 4            | 4          | YES  |             | 10         |               | S             |
| * S1             | TB6-9,10      | I9U             | 60      | 11           | SYS        | NO   |             |            |               | N             |
| * S2             | TB6-11,12     | I9L             | 62      | 13           | SYS        | NO   |             |            |               | N             |
| 5A               | TB3-1,2       | J1U             | 55      | 5            | 5          | YES  |             | 3          |               | S             |
| 6A               | TB3-5,6       | J2U             | 40      | 6            | 6          | YES  |             |            |               | N             |
| 6B               | TB3-7,8       | J2L             | 44      | 6            | 6          | YES  |             |            |               | N             |
| 8A               | TB5-9,10      | J6U             | 42      | 8            | 8          | YES  |             | 3          |               | S             |
| 8B               | TB5-11,12     | J6L             | 46      | 8            | 8          | YES  |             | 10         |               | S             |
| PED PUSH BUTTONS |               |                 |         |              |            |      |             |            |               |               |
| P21,P22          | TB8-4,6       | I12U            | 67      | PED 2        | 2          | PED  |             |            |               |               |
| P41,P42          | TB8-5,6       | I12L            | 69      | PED 4        | 4          | PED  |             |            |               |               |
| P61,P62          | TB8-7,9       | I13U            | 68      | PED 6        | 6          | PED  |             |            |               |               |
| P81,P82          | TB8-8,9       | I13L            | 70      | PED 8        | 8          | PED  |             |            |               |               |

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

\* System detector only. Remove any assigned vehicle phase.

### INPUT FILE POSITION LEGEND: J2L



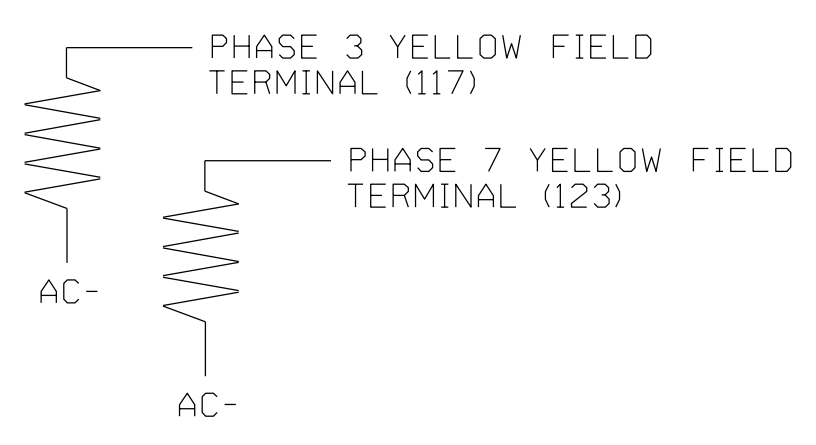
### \*\*OPTICAL PREEMPTION SYSTEM

- Install an optical preemption system for emergency vehicle preemption. Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting locations to accomplish the preemption schemes shown on the Signal Design Plans.
- Ensure that the Optical Preemption System is fully compatible with equipment manufactured in accordance with the specification of the type 2070 controller.

### LOAD RESISTOR INSTALLATION DETAIL

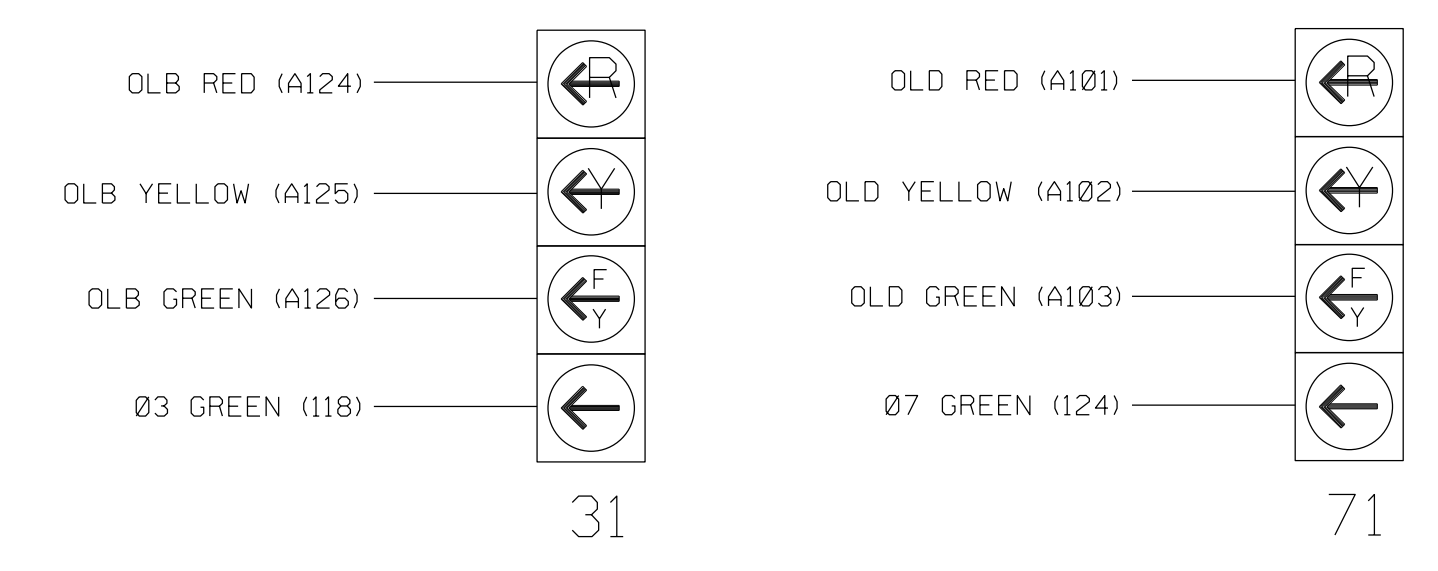
(install resistors as shown)

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



### FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 01-0001  
 DESIGNED: JUNE 2018  
 SEALED: 09/20/2018  
 REVISED: N/A

Electrical Detail - Sheet 1 of 3

DRMP, Inc.  
 8000 Regency Parkway, Suite 175  
 Cary, NC 27518  
 NC License No. C-2418 (019) 650-1038

US 17 Bus./(W. Ehringhaus St)  
 SR 1268/(E. Ehringhaus St) at  
 US 17 Bus./(S. Road St)/  
 SR 1269 (S. Road St)  
 Division 1 Pasquotank County Elizabeth City  
 PLAN DATE: March 2018 REVIEWED BY: AJ Davis  
 PREPARED BY: DJ White REVIEWED BY: LM Moon

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 SEAL 022516  
 LISA M. MOON

DocuSigned by:  
 Lisa M. Moon  
 9/20/2018  
 DATE  
 SIG. INVENTORY NO. 01-0001