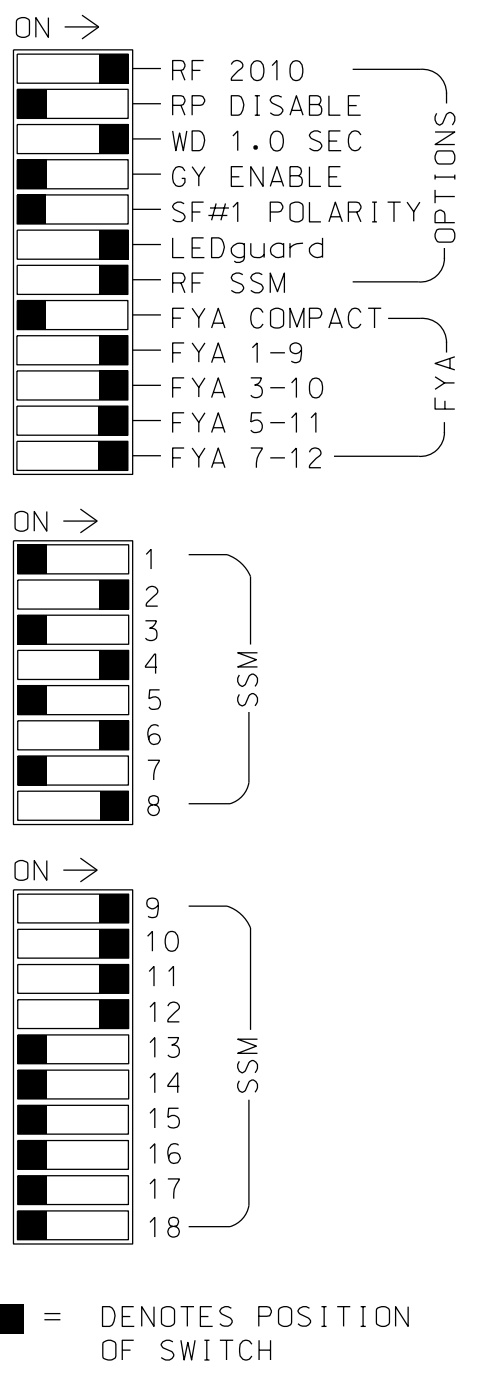
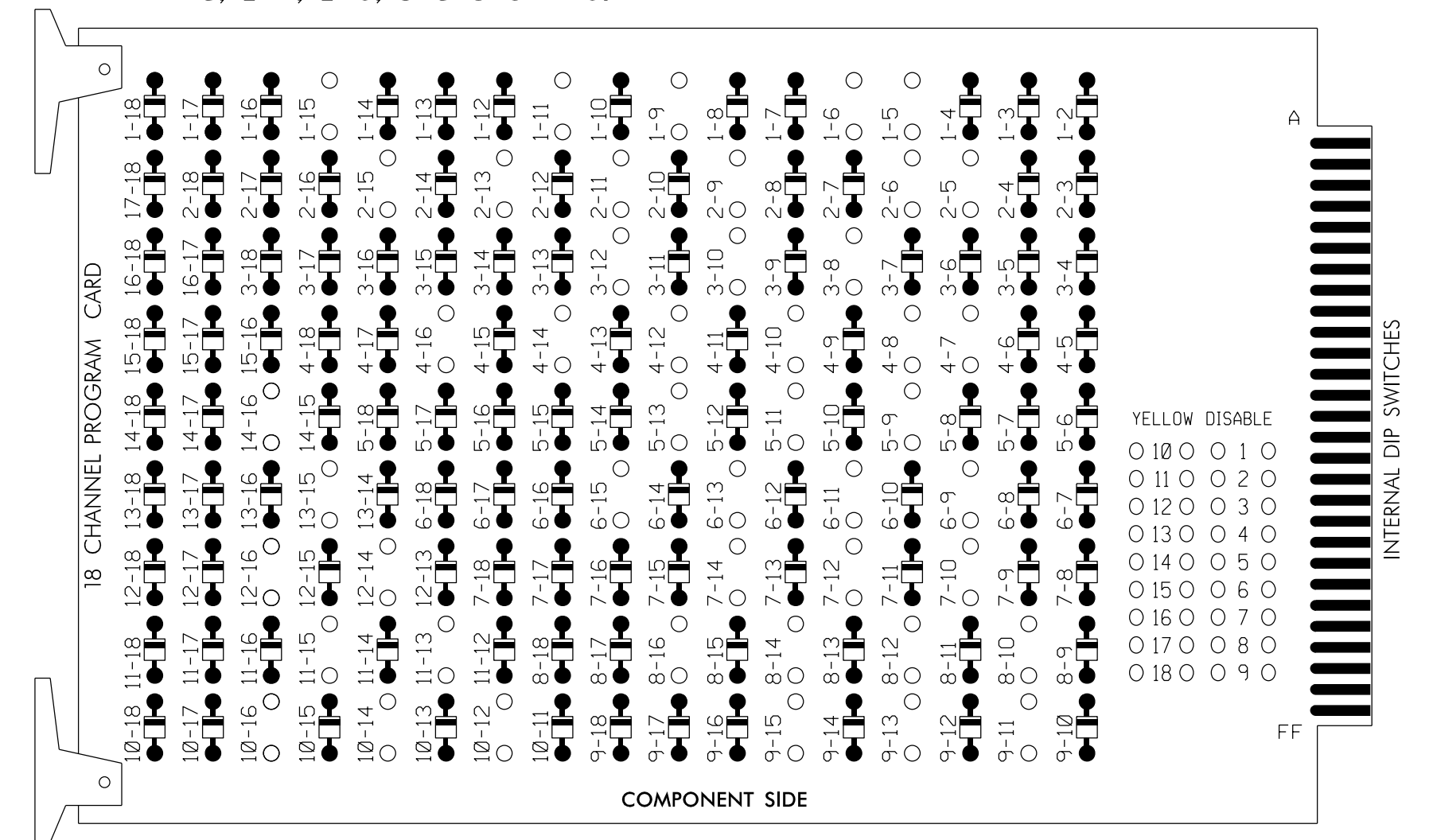


### EDI MODEL 2018ECLip-NC CONFLICT MONITOR PROGRAMMING DETAIL

(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, 3-8, 3-12, 4-7, 4-8, 4-10, 4-12, 4-14, 4-16, 5-9, 5-11, 5-13, 6-9, 6-11, 6-13, 6-15, 7-10, 7-12, 7-14, 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.



- 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. Program phases 4 and 8 for Dual Entry. 3. Program controller to start up in phase 2 WALK and 6 WALK. 4. The cabinet and controller are part of the Elizabeth City Signal System. 5. Ensure Delayed Green times shown in the Timing Chart on the signal design plan are accounted for to facilitate leading pedestrian interval.

### 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 S1,AUX S2,AUX S4,
AUX S5
PHASES USED.....1,2,2PED,3\*\*,4,4PED,5,6,6PED,
7,8,8PED
OVERLAP "A".....\*
OVERLAP "B".....\*
OVERLAP "C".....\*
OVERLAP "D".....\*
\* See overlap programming detail on sheet 2
\*\* Phase only used during preempt

### SIGNAL HEAD HOOK-UP CHART

Table with columns for Load Switch No., CMU Channel No., Phase, Signal Head No., and various signal types (RED, YELLOW, GREEN, RED ARROW, YELLOW ARROW, FLASHING YELLOW ARROW, GREEN ARROW) with corresponding terminal numbers.

NU = Not Used
\* Denotes install load resistor. See load resistor installation detail on sheet 2.
★ See pictorial of head wiring in detail on sheet 2.

### 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.

### FLASHER CIRCUIT MODIFICATION DETAIL

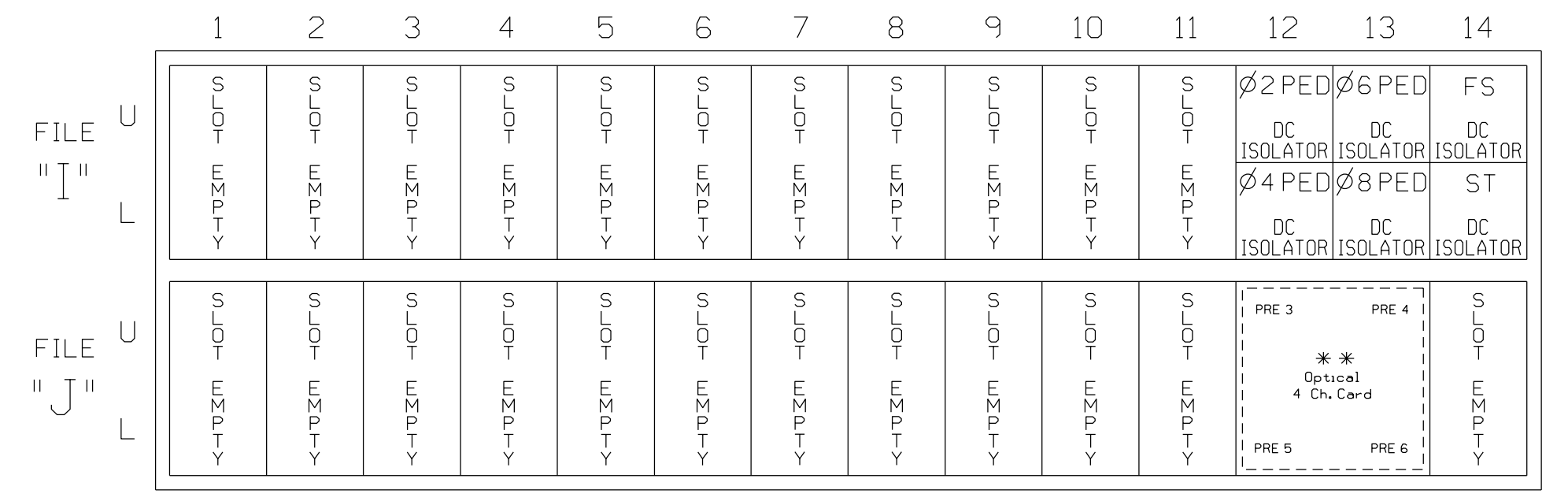
IN ORDER TO ENSURE THAT SIGNALS FLASH CONCURRENTLY ON THE SAME APPROACH, MAKE THE FOLLOWING FLASHER CIRCUIT CHANGES:

- 1. ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-4 AND TERMINATE ON T2-2.
2. ON REAR OF PDA - REMOVE WIRE FROM TERM. T2-5 AND TERMINATE ON T2-3.
3. REMOVE FLASHER UNIT 2.

THE CHANGES LISTED ABOVE TIES ALL PHASES AND OVERLAPS TO FLASHER UNIT 1.

### INPUT FILE POSITION LAYOUT

(front view)

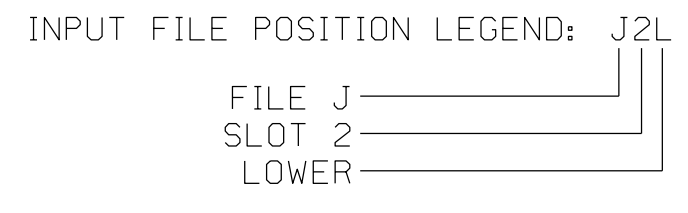


EX.: 1A, 2A, ETC. = LOOP NO.'S
\* See Sensys Access Box Wiring Detail this sheet.
FS = FLASH SENSE
ST = STOP TIME
EV PREEMPT = PRE3, PRE4, PRE5 & PRE6

### INPUT FILE CONNECTION & PROGRAMMING CHART

Table with columns: LOOP NO., LOOP TERMINAL, INPUT FILE POS., PIN NO., DETECTOR NO., NEMA PHASE, CALL, EXTEND TIME, DELAY TIME, ADDED INITIAL, DETECTOR TYPE. Includes rows for PED PUSH BUTTONS, P21,P22, P41,P42, P61,P62, P81,P82.

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



### \*\*OPTICAL PREEMPTION SYSTEM

- 1. 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.
2. Ensure that the Optical Preemption System is fully compatible with equipment manufactured in accordance with the specification of the type 2070 controller.

### WIRELESS DETECTION SYSTEM

- 1. For all zones install a Wireless Vehicle 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.
2. Ensure that the Wireless Vehicle Detection System is fully compatible with equipment manufactured in accordance with the specifications for the type 2070 controller.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 01-0004
DESIGNED: MARCH 2018
SEALED: 09/20/2018
REVISED: N/A

20-SEP-2018 18:51
R:\415942\51and\shades\gnw\l:\mg\01-0004-20180821.e.dgn
Icon AT CAR-LMCDM-W7

Electrical Detail - Sheet 1 of 4

Professional seal area for DRMP, Inc. with project details for US 158 (Elizabeth Street) at US 17 Bus. (N. Road Street) in Pasquotank County, Elizabeth City, NC. Includes dates, names, and a professional seal for Lisa M. Moon, Engineer.

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



DocuSigned by: Lisa M. Moon
9/20/2018
DATE
SIG. INVENTORY NO. 01-0004

