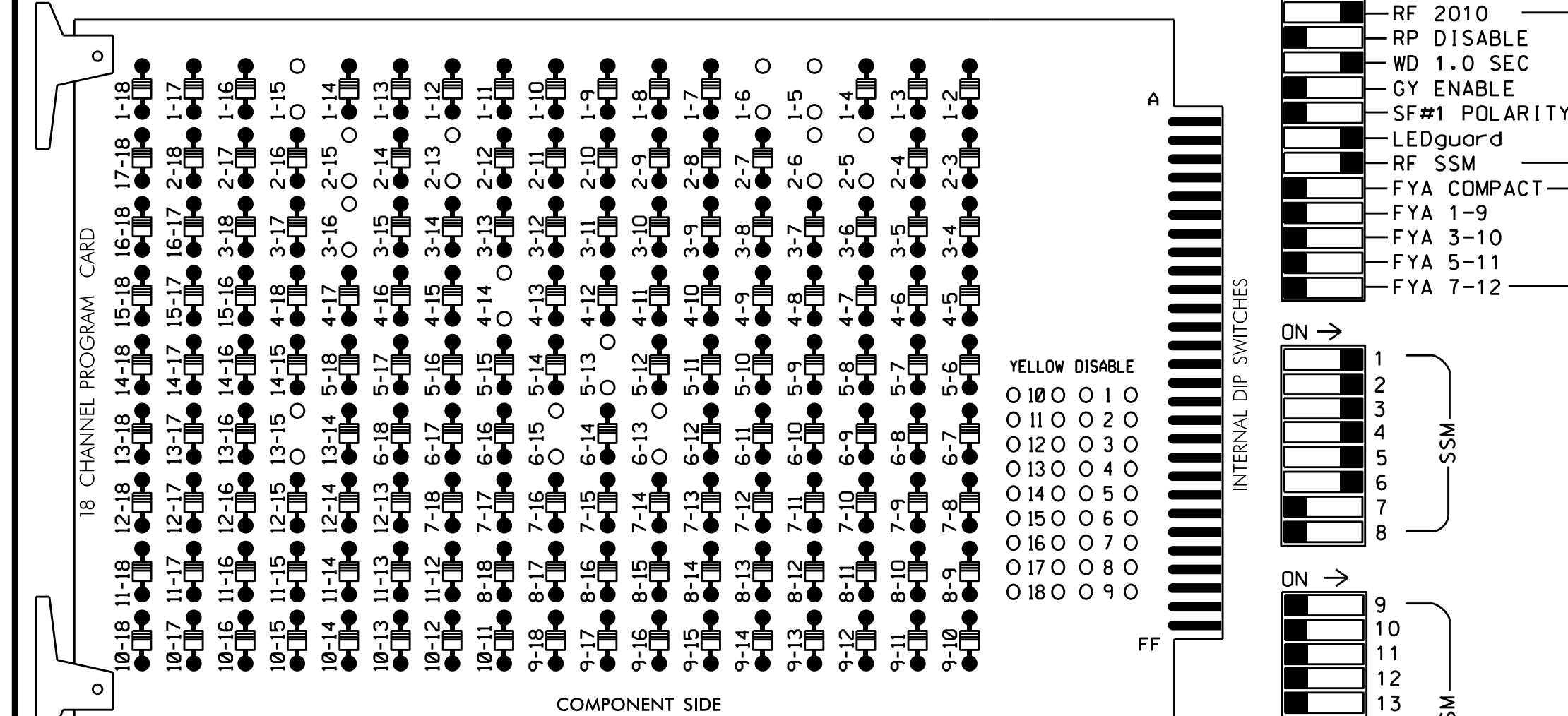


EDI MODEL 2018EClip-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

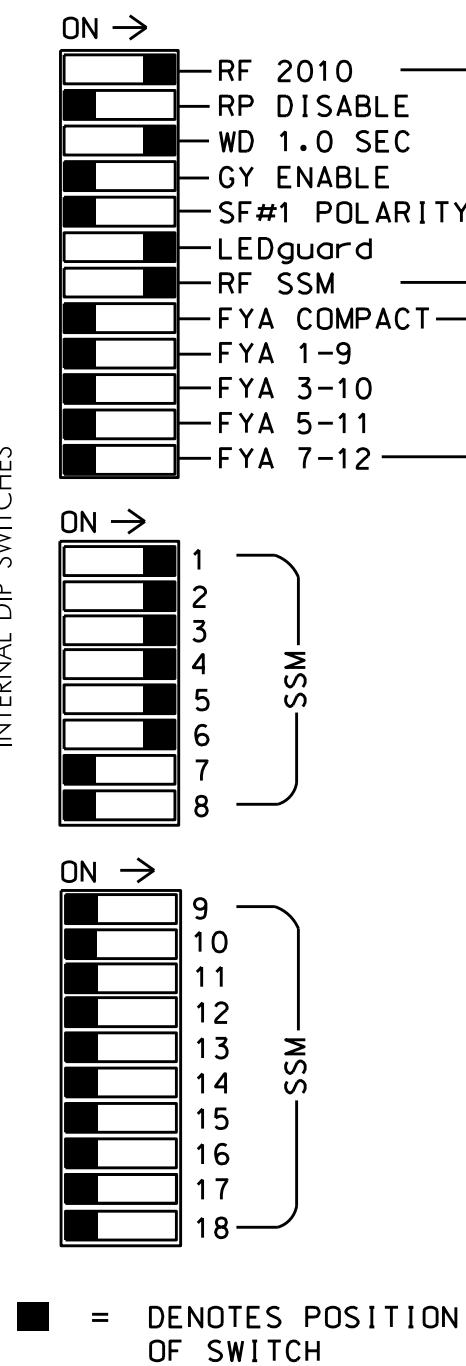
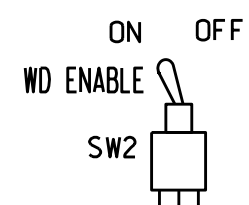
REMOVE DIODE JUMPERS 1-5, 1-6, 1-15, 2-5, 2-6, 2-13, 2-15, 3-16, 4-14, 5-13, 6-13, 6-15, and 13-15.



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.
- Enable Simultaneous Gap-Out for all phases.
- Program phases 2 and 6 for Start Up In Green.
- Program phases 2, 3, 4 and 6 for 'STARTUP PED CALL'.
- Program phases 2 and 6 for Yellow Flash.
- The cabinet and controller are part of the Asheville Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070E
 CABINET.....332 W/ AUX
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6,S7,S8,S9,S12
 PHASES USED.....1,2,2PED,3,3PED,4,4PED,5,6,6PED
 OVERLAPS.....NONE

| | |
|-----------------------|-----------|
| PROJECT REFERENCE NO. | SHEET NO. |
| U-4715B | Fig. 49.1 |

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 | 3 PED | OLA | OLB | SPARE | OLC | OLD | SPARE | |
| SIGNAL HEAD NO. | 11 | 32 | 21,22 | P21, P22 | 31 | 32 | 41 | 42 | P41, P42 | 42 | 51 | 61,62 | P61, P62 | NU | NU | P31, P32 | NU | NU | |
| RED | | 128 | | 116 | 116 | 101 | 101 | | | | | 134 | | | | | | | |
| YELLOW | | | 129 | | 117 | 117 | 102 | 102 | | | | | 135 | | | | | | |
| GREEN | | | | 130 | 118 | 118 | 103 | 103 | | | | | | 136 | | | | | |
| RED ARROW | 125 | | | | | | | | | | | | 131 | | | | | | |
| YELLOW ARROW | 126 | 126 | | | | | | | | | | 132 | 132 | | | | | | |
| GREEN ARROW | 127 | 127 | | 118 | | 103 | | | | 133 | 133 | | | | | | | | |
| Hand icon | | | | | | | 113 | | | | | | | 119 | | | | 110 | |
| Person icon | | | | | | | | | | | | | | | | | | | 112 |

NU = Not Used

PED 3 PROGRAMMING DETAIL

(program controller as shown below)

CHANGING OUTPUT ASSIGNMENTS

- FROM MAIN MENU SELECT '6' (OUTPUTS), THEN '1' (OUTPUT ASSIGNMENTS)
- ENTER 17 (PHASE 8 DW) FOR OUTPUT ASSIGNMENT #.
- SCROLL DOWN TO 'PEDESTRIAN PHASE' AND ENTER 'Y' REGARDLESS OF DEFAULT PROGRAMMING
- ENTER '3' FOR 'SELECT PEDESTRIAN PHASE'. NO CHANGE NEEDED FOR 'SELECT COLOR'
- BACKUP TO 'OUTPUT ASSIGNMENTS AND SETTINGS MENU:' BY PRESSING THE 'ESC' BUTTON ON KEYBOARD.
- SELECT '1' (OUTPUT ASSIGNMENTS)
- ENTER 18 (PHASE 8 W) FOR OUTPUT ASSIGNMENT #.
- REPEAT STEPS # 3 AND # 4.

CHANGING INPUT ASSIGNMENTS

- FROM MAIN MENU SELECT '7' (DETECTORS), THEN '2' (PEDESTRIAN DETECTOR ASSIGNMENTS)
- CYCLE TO PED DETECTOR #8 BY REPEATEDLY DEPRESSING '+' KEY
- MODIFY PHASE ASSIGNED TO PED DETECTOR # 8 FROM PHASE 8 TO PHASE 3

PROGRAMMING COMPLETE

INPUT FILE POSITION LAYOUT

(front view)

| FILE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|------|-----|----------|-----|----------|-----|-------|--------------|--------------|--------------|--------------|-------------|-------------|-------------|-------------|
| U | ∅ 1 | ∅ 2 | ∅ 3 | ∅ 4 | ∅ 5 | ∅ 6 | SYS. DET. S1 | SYS. DET. S2 | SYS. DET. S3 | SYS. DET. S4 | ∅ 2 PED | ∅ 3 PED | ∅ 4 PED | FS |
| L | 1A | 2A,2B | 3A | 4A | 5A | 6A,6B | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR |
| U | ∅ 1 | NOT USED | ∅ 3 | NOT USED | ∅ 5 | ∅ 6 | SYS. DET. S1 | SYS. DET. S2 | SYS. DET. S3 | SYS. DET. S4 | ∅ 2 PED | ∅ 3 PED | ∅ 4 PED | FS |
| L | 1B | USED | 3B | USED | 5B | 6B | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR | DC ISOLATOR |

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

FS = FLASH SENSE
 ST = STOP TIME

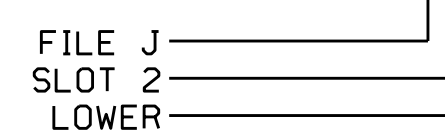
INPUT FILE CONNECTION & PROGRAMMING CHART

| 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 |
|------------------|---------------|-----------------|---------|----------------------|--------------|------------|------|--------|-----------------|--------------|------------|
| 1A | TB2-5,6 | I2U | 39 | 1 | 2 | 1 | Y | Y | | | 3 |
| 1B | TB2-7,8 | I2L | 43 | 5 | 12 | 1 | Y | Y | | | 15 |
| 2A,2B | TB2-9,10 | I3U | 63 | 25 | 32 | 2 | Y | Y | | | |
| 3A | TB4-9,10 | I6U | 41 | 3 | 4 | 3 | Y | Y | | | 3 |
| 3B | TB4-11,12 | I6L | 45 | 7 | 14 | 3 | Y | Y | | | |
| 4A | TB6-1,2 | I7U | 65 | 27 | 34 | 4 | Y | Y | | | 3 |
| 5A | TB3-5,6 | J2U | 40 | 2 | 6 | 5 | Y | Y | | | 3 |
| 5B | TB3-7,8 | J2L | 44 | 6 | 16 | 5 | Y | Y | | | 15 |
| 6A,6B | TB3-9,10 | J3U | 64 | 26 | 36 | 6 | Y | Y | | | |
| * S1 | TB6-9,10 | I9U | 60 | 22 | 11 | SYS | | | | | |
| * S2 | TB6-11,12 | I9L | 62 | 24 | 13 | SYS | | | | | |
| * S3 | TB7-9,10 | J9U | 59 | 21 | 15 | SYS | | | | | |
| * S4 | TB7-11,12 | J9L | 61 | 23 | 17 | SYS | | | | | |
| PED PUSH BUTTONS | | | | | | | | | | | |
| P21,P22 | TB8-4,6 | I12U | 67 | 29 | PED 2 | 2 PED | | | | | |
| P31,P32 | TB8-8,9 | I13L | 70 | 32 | PED 8 | 3 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 | | | | | |

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

* SYSTEM DETECTOR ONLY. REMOVE THE VEHICLE PHASE ASSIGNED TO THIS DETECTOR IN THE DEFAULT PROGRAMMING.

INPUT FILE POSITION LEGEND: J2L



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.

Electrical Detail

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared In the Offices of:
 TRANSPORTATION MOBILITY AND SAFETY SOLUTIONS
 750 N. Greenfield Pkwy, Garner, NC 27529

NC 81/SR 3214 (Biltmore Avenue) at NC 81 (Bryson Street)/SR 3556 (Meadow Road)

Division 13 Buncombe County Asheville

PLAN DATE: June 2016 REVIEWED BY: BAS

PREPARED BY: S. Armstrong REVIEWED BY:

REVISIONS INIT. DATE

Seal of Keith M. Minns, Professional Engineer, License No. 036880, State of North Carolina.

DocuSigned by: Keith M. Minns 9/7/2016

SIG. INVENTORY NO. 13-0243

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 13-0243
 DESIGNED: January 2016
 SEALED: 8/10/2016
 REVISED: N/A

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