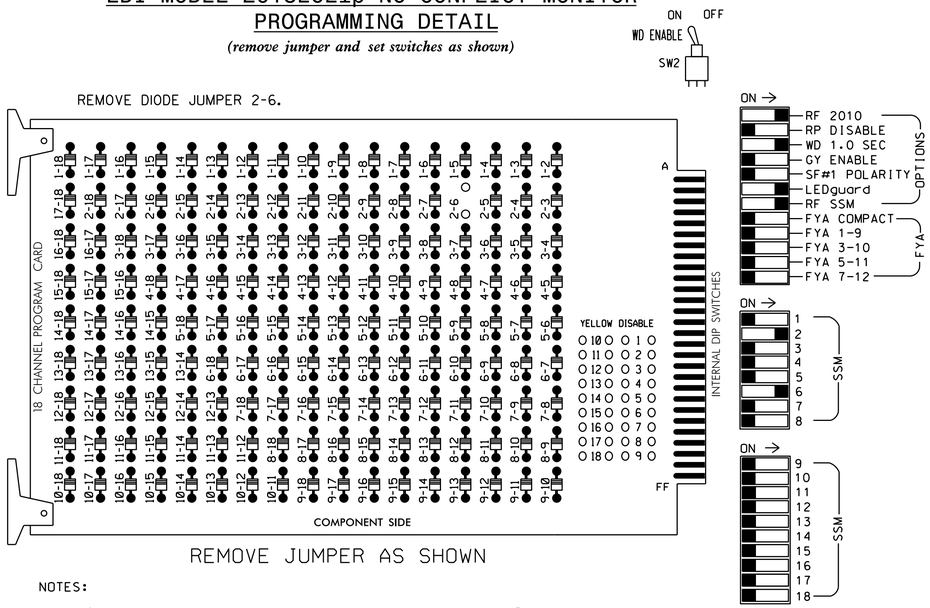
| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| U-5742 | Sig. 244.1 |

# EDI MODEL 2018ECLip-NC CONFLICT MONITOR PROGRAMMING DETAIL

*(remove jumper and set switches as shown)*




■ = DENOTES POSITION OF SWITCH

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 controller to start up in phase 2 Green and 6 Green.
4. The cabinet and controller are part of the Fayetteville Signal System.

## EQUIPMENT INFORMATION

CONTROLLER.....2070E
CABINET.....336
SOFTWARE.....ECONOLITE ASC/3-2070
CABINET MOUNT.....POLE
OUTPUT FILE POSITIONS...12
LOAD SWITCHES USED.....S2,S6,S8
PHASES USED.....2,4*,4 PED,6
OVERLAPS.....NONE

* Used for timing purposes only.

## 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 | NU | NU | NC | P41, P42 | NU | 61,62 | NU | NU | NU | NU |
| RED | | 128 | | | | | | 134 | | | | |
| YELLOW | | 129 | | | | | | 135 | | | | |
| GREEN | | 130 | | | | | | 136 | | | | |
| RED ARROW | | | | | | | | | | | | |
| YELLOW ARROW | | | | | | | | | | | | |
| GREEN ARROW | | | | | | | | | | | | |
| ✋ | | | | | | 104 | | | | | | |
| 🚶 | | | | | | 106 | | | | | | |

NU = Not Used
NC = Not Connected

## ACCESSIBLE PEDESTRIAN SIGNAL (APS) INSTALLATION NOTES

1. Install push buttons and APS equipment per manufacturer's instructions.
2. Provide a dedicated cable to each push button per manufacturer's instructions.
3. If APS equipment is mounted in cabinet, use filtered power (i.e., Controller Receptacle) to power APS equipment. Do not use Equipment Receptacle, which is a GFCI outlet.
4. Never attempt to operate a standard contact closure push button with the APS system unless cabinet is re-wired for standard button operation or unless explicitly allowed by the manufacturer.
5. Place manufacturer's instructions in cabinet with cabinet prints, signal plans, and electrical details.

## INPUT FILE POSITION LAYOUT

*(front view)*

| FILE "I" | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| U | SLOT EMPTY | Ø2 2A,2B | SLOT EMPTY | SLOT EMPTY | SLOT EMPTY | Ø6 6A,6B | SLOT EMPTY | SLOT EMPTY | SLOT EMPTY | SLOT EMPTY | SLOT EMPTY | NOT USED | SLOT EMPTY | FS DC ISOLATOR |
| L | | NOT USED | | | | NOT USED | | | | | | Ø4 PED DC ISOLATOR | | ST 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. | DETECTOR NO. | NEMA PHASE | CALL | EXTEND TIME | DELAY TIME | DETECTOR TYPE |
|---|---|---|---|---|---|---|---|---|---|
| 2A,2B | TB21-3,4 | I2U | 39 | 2 | 2 | YES | | | S |
| 6A,6B | TB21-11,12 | I6U | 40 | 6 | 6 | YES | | | S |
| PED PUSH BUTTONS | | | | | | | | | |
| P41,P42 | TB24-9,10 | I12L | 69 | PED 4 | 4 PED | | | | |

NOTE:
INSTALL DC ISOLATOR IN INPUT FILE SLOT I12

INPUT FILE POSITION LEGEND: J2L
FILE J
SLOT 2
LOWER

## 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.

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 06-1329
DESIGNED: March 2016
SEALED: 7/7/2016
REVISED: N/A

Electrical Detail

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared in the Offices of:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signals Management Section
750 N.Greenfield Pkwy,Garner,NC 27529

# NC 210 (Murchison Road) at Stadium Drive

Division 6 | Cumberland County | Fayetteville

| | | | |
|---|---|---|---|
| PLAN DATE: | June 2016 | REVIEWED BY: | |
| PREPARED BY: | Keith Mims | REVIEWED BY: | |

| REVISIONS | INIT. | DATE |
|---|---|---|
| | | |

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 030530 ENGINEER ZACHARY M. LITTLE

DocuSigned by: Zachary M. Little 7/18/2016
DC21EFD94F5341F
DATE

SIG. INVENTORY NO. 06-1329

11-JUL-2016 16:15
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kcmitms