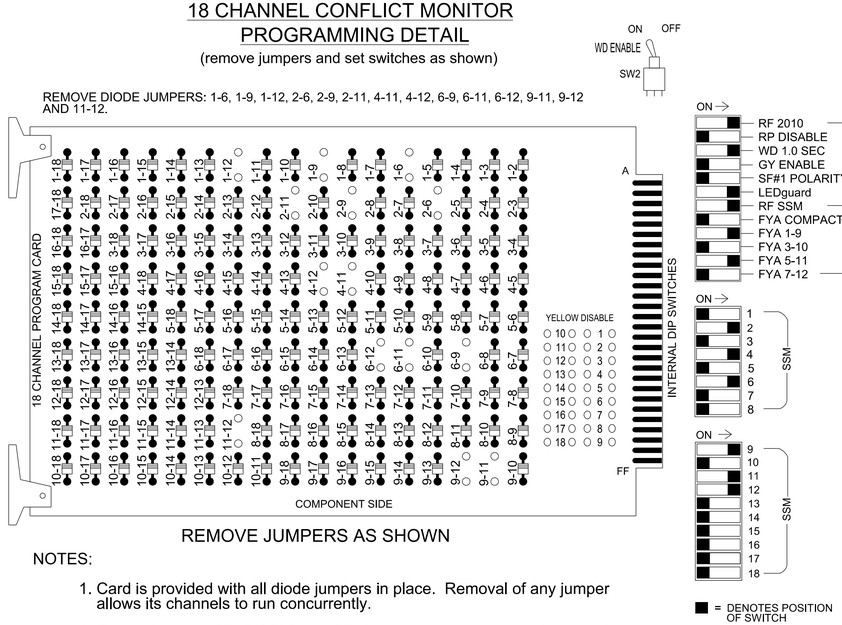
Docusign Envelope ID: 68D05315-339F-8877-826C-A54DFA71DCDF

| PROJECT REFERENCE NO. | SHEET NO. |
|---|---|
| U-3422B | Sig-5.1 |

## 18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)




REMOVE JUMPERS AS SHOWN

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 the Red Enable is active at all times during normal operation.
4. Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.

## NOTES

1. To prevent "flash-conflict" problems, insert red flash program blocks for all vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the signal plan.
2. Program controller to start up in phase 2 Green No Walk and phase 6 Green No Walk.
3. If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.
4. The cabinet and controller are part of the Camden Road Closed Loop Signal System.

## EQUIPMENT INFORMATION

Controller.....2070LX
Cabinet.....332 w/ Aux
Software.....Q-Free MAXTIME
Cabinet Mount.....Base
Output File Positions.....18 With Aux. Output File
Load Switches Used.....S1, S2, S5, S8
AUX S1, AUX S4, AUX S5
Phases Used.....1, 2, 4, 6
Overlap "1".....*
Overlap "2".....NOT USED
Overlap "3".....*
Overlap "4".....*

*See overlap programming detail on sheet 2.

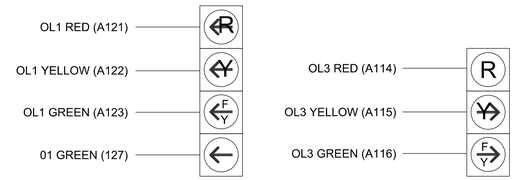
## SIGNAL HEAD HOOK-UP CHART

| 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 | OL1 | OL2 | SPARE | OL3 | OL4 | SPARE |
| SIGNAL HEAD NO. | 11 ★ | 21,22 | NU | NU | 41,43 | NU | NU | 61,62 | NU | NU | NU | NU | 11 ★ | NU | NU | 23 ★ | 42 | NU |
| RED | | 128 | | | | | | 134 | | | | | | | | A114 | A101 | |
| YELLOW | * | 129 | | | | | | 135 | | | | | | | | | | |
| GREEN | | 130 | | | | | | 136 | | | | | | | | | | |
| RED ARROW | | | | | 101 | | | | | | | | A121 | | | | | |
| YELLOW ARROW | | | | | 102 | | | | | | | | A122 | | | A115 | A102 | |
| FLASHING YELLOW ARROW | | | | | | | | | | | | | A123 | | | A116 | | |
| GREEN ARROW | 127 | | | | 103 | | | | | | | | | | | | A103 | |

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

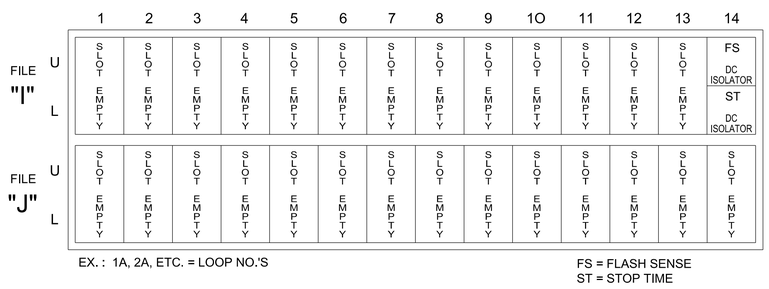
## FYA SIGNAL WIRING DETAIL

*(wire signal heads as shown)*




## INPUT FILE POSITION LAYOUT

(front view)




## INPUT FILE CONNECTION & PROGRAMMING CHART

| LOOP NO. | LOOP TERMINAL | INPUT FILE POS. | PIN NO. | INPUT POINT | DETECTOR NO. | CALL PHASE | DELAY TIME | EXTEND TIME | EXTEND | ADDED INITIAL | CALL | DELAY DURING GREEN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1A | - | - | - | * | 33 ★ | 1 | 15.0 | | X | | X | |
| | | | | - | 125 ★ | 6 | 3.0 | | X | | X | |
| 1B | - | - | - | * | 49 | 1 | 15.0 | | X | | X | |
| 2A | - | - | - | * | 38 | 2 | | | X | | X | |
| 4A | - | - | - | * | 44 | 4 | 10.0 | | X | | X | |
| 6A | - | - | - | * | 54 | 6 | | | X | | X | |

* For Input Point numbers, see SDLC Non-Intrusive Detection Chart on sheet 2.
★ For the detectors to work as shown on the signal design plan, see the Vehicle Detector Setup Programming Detail for Alternate Phasing on sheet 2.

INPUT FILE POSITION LEGEND: J2L
FILE J
SLOT 2
LOWER

## FLASHER CIRCUIT MODIFICATION DETAIL

IN ORDER TO INSURE 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.

## LOAD RESISTOR INSTALLATION DETAIL

*(install resistors as shown)*

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




## SPECIAL DETECTOR NOTE

Install a multizone microwave detection zone for approaches 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.

## LOGIC PROCESSOR PROGRAMMING

Front Panel
Main Menu >Controller >More >User Programs >Definition

Web Interface
Home >Controller >User Programs Configuration >User Programs Definition

Program 1

| Statement | Result | Index | Operation | Parameter A | Index | Parameter B | Index | Delay | Ext |
|---|---|---|---|---|---|---|---|---|---|
| 1 | Veh Detector Call | 125 | Is Module A input B ON | Number | 2 | Number | 1 | 0.0 | 0.0 |

## LOGIC STATEMENT DESCRIPTION

Statement 1 Description: Mirrors vehicle detector 33 to vehicle detector 125

Plans Prepared By:
DRMP
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Charlotte, NC 28262
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THIS PLAN SUPERSEDES THE PLAN SEALED ON 12/22/2023

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 06-1309T1
DESIGNED: Sep 2026
SEALED: 09/11/2026
REVISED: N/A

Electrical Detail - Sheet 1 of 2
Temporary Design 1 - (TMP Phase I)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared for:
NC Transportation Mobility and Safety Division
NCDOT - DEPARTMENT OF TRANSPORTATION
Traffic Engineering Branch
Traffic Signals Management Section

750 N.Greenfield Pkwy,Garner,NC 27529

SR 1003 (Camden Road)
at
South Peak Drive

Division 6 Cumberland County Hope Mills

| | | | |
|---|---|---|---|
| PLAN DATE: | September 2026 | REVIEWED BY: | BN Groome |
| PREPARED BY: | DS Griffith | DRMP PROJ. NO.: | 24941 |

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

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 052936 ENGINEER BRITTANY N GROOME

Signed by: Brittany Groome 1E0934DE1594484...
09/11/2026
SIGNATURE DATE

SIG. INVENTORY NO. 06-1309TI