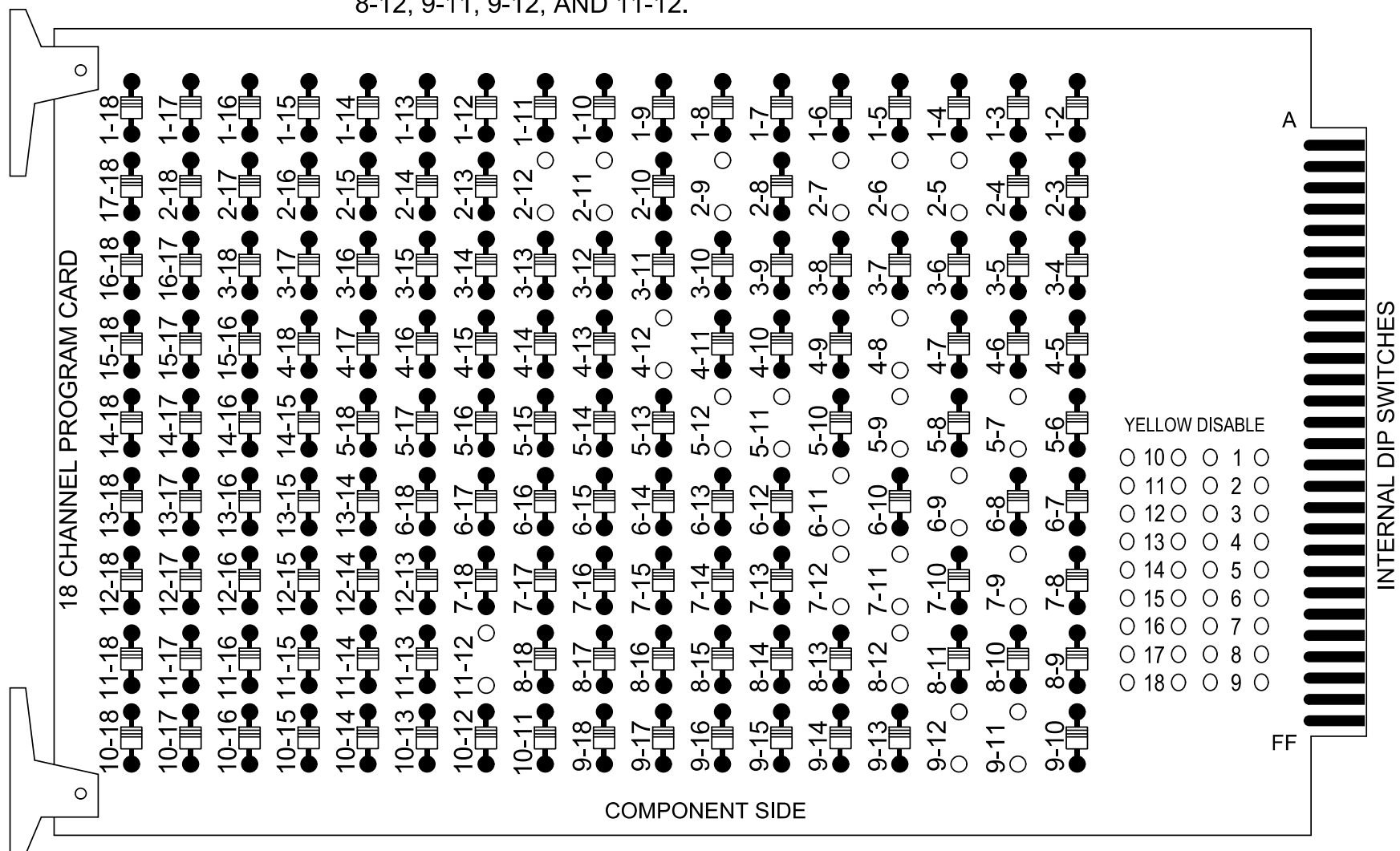


18 CHANNEL CONFLICT MONITOR  
PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS: 2-5, 2-6, 2-7, 2-9, 2-11, 2-12, 4-8, 4-12, 5-7, 5-9, 5-11, 5-12, 6-9, 6-11, 7-9, 7-11, 7-12, 8-12, 9-11, 9-12, AND 11-12.



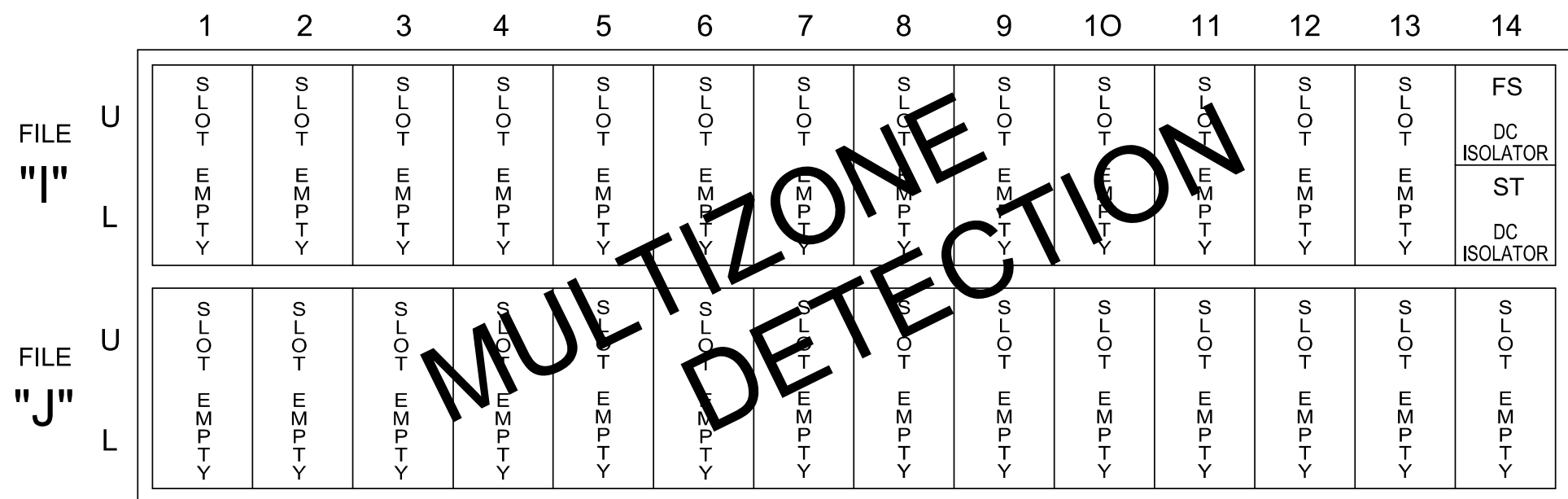
REMOVE JUMPERS AS SHOWN

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

INPUT FILE POSITION LAYOUT

(front view)



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

FS = FLASH SENSE  
ST = STOP TIME  
PRE = PREEMPT

SPECIAL DETECTOR NOTE

Install a multizone microwave 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.

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 plan.
- Program phase 4 and phase 8 for Dual Entry.
- Program controller to start up in phase 2 Green No Walk and phase 6 Green No Walk.
- If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.

EQUIPMENT INFORMATION

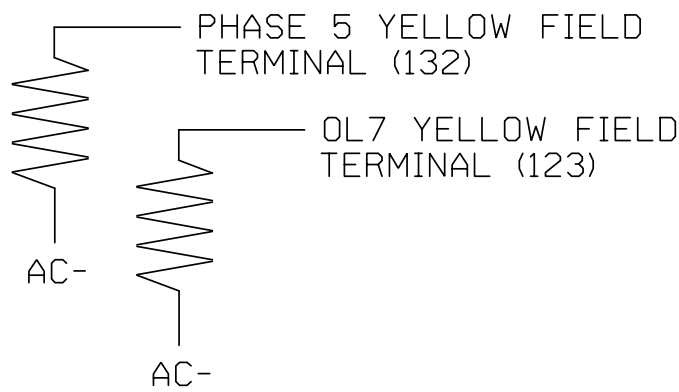
Controller.....2070LX  
Cabinet.....332 w/ Aux  
Software.....Q-Free MAXTIME  
Cabinet Mount.....Base  
Output File Positions.....18 With Aux. Output File  
Load Switches Used.....S2, S5, S7, S8, S10, S11,  
AUX S1, AUX S4, AUX S5  
Phases Used.....2, 4, 5, 6, 8  
Overlap "1".....\*  
Overlap "2".....NOT USED  
Overlap "3".....\*  
Overlap "4".....\*  
Overlap "7".....\*

\*See overlap programming detail on sheet 2

LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown below)

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



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 | OL7 | 8     | 8 PED | OL1    | OL2    | SPARE  | OL3    | OL4    | SPARE  |
| SIGNAL HEAD NO.       | NU | 21,22 | NU    | NU | 41,42 44 | NU    | 51  | 62,63 | NU    | 43  | 81,82 | NU    | 61     | NU     | NU     | 51     | 43     | NU     |
| RED                   |    | 128   |       |    | 101      |       |     | 134   |       |     | 107   |       |        |        |        |        | A101   |        |
| YELLOW                |    | 129   |       |    | 102      |       | *   | 135   |       | *   | 108   |       |        |        |        |        |        |        |
| GREEN                 |    | 130   |       |    | 103      |       |     | 136   |       |     | 109   |       |        |        |        |        |        |        |
| RED ARROW             |    |       |       |    |          |       |     |       |       |     |       |       | A121   |        |        | A114   |        |        |
| YELLOW ARROW          |    |       |       |    |          |       |     |       |       |     |       |       | A122   |        |        | A115   | A102   |        |
| FLASHING YELLOW ARROW |    |       |       |    |          |       |     |       |       |     |       |       | A123   |        |        | A116   | A103   |        |
| GREEN ARROW           |    |       |       |    |          |       | 133 |       |       | 124 |       |       |        |        |        |        |        |        |

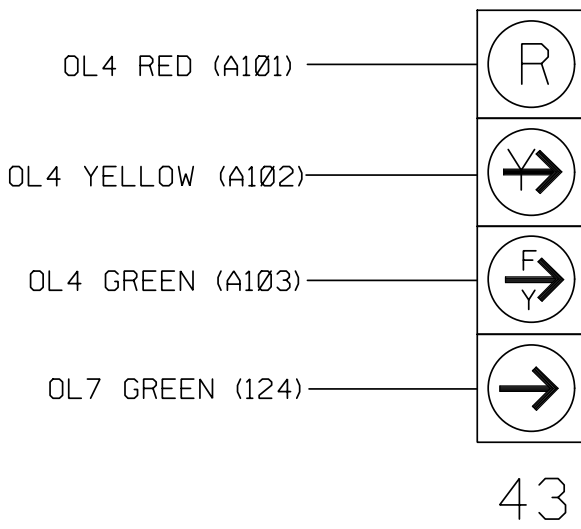
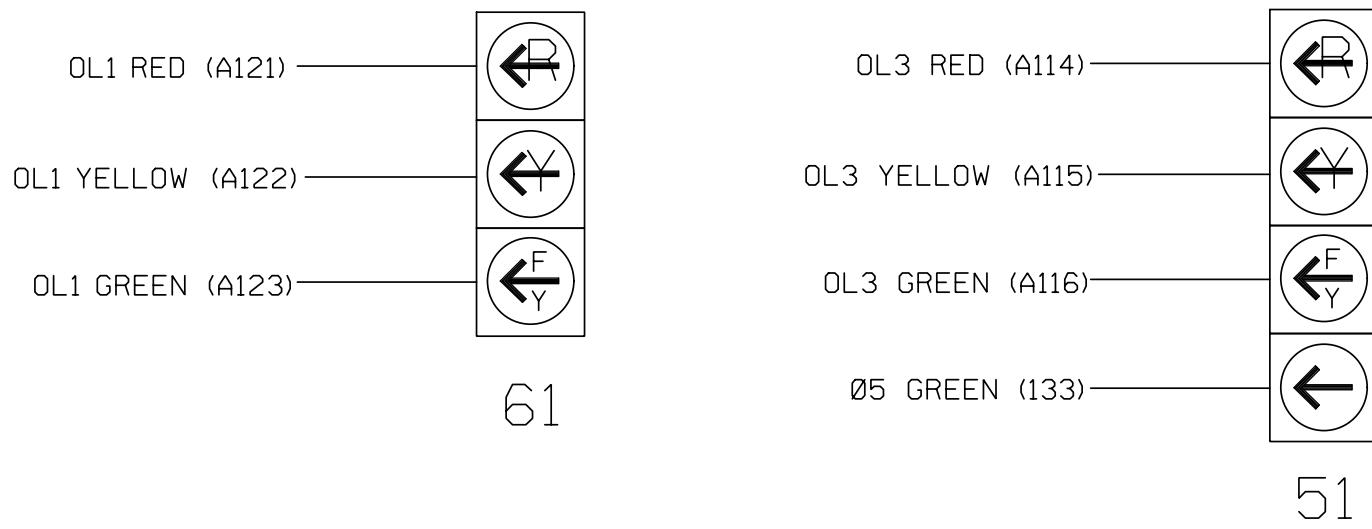
NU = Not Used

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

\* See pictorial of head wiring in detail this sheet.

FYA SIGNAL WIRING DETAIL

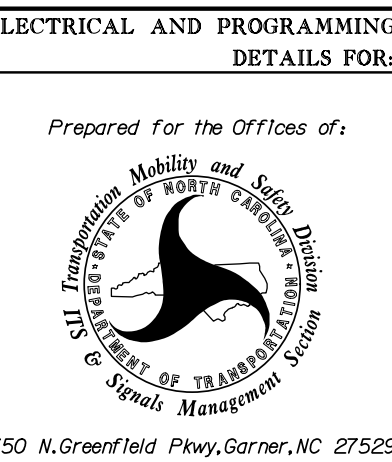
(wire signal heads as shown)



This plan supersedes the plan signed and sealed on 8/2/2024.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 14-13Ø8T1  
DESIGNED: April 2025  
SEALED: 5/21/2025  
REVISED:

Temporary Design 1 - (TMP Phase II)  
ELECTRICAL DETAIL SHEET 1 OF 2



| US 64 at US 64 Business/Hot Spot Convenience Store |                         |            |  |
|----------------------------------------------------|-------------------------|------------|--|
| Division 14                                        | Clay County             | Hayesville |  |
| PLAN DATE: April 2025                              | REVIEWED BY: H.M. Surti |            |  |
| PREPARED BY: R.L. Aristondo                        | REVIEWED BY: T.M. Woody |            |  |
| REVISIONS                                          | INIT.                   | DATE       |  |
|                                                    |                         |            |  |
|                                                    |                         |            |  |
|                                                    |                         |            |  |
|                                                    |                         |            |  |

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

