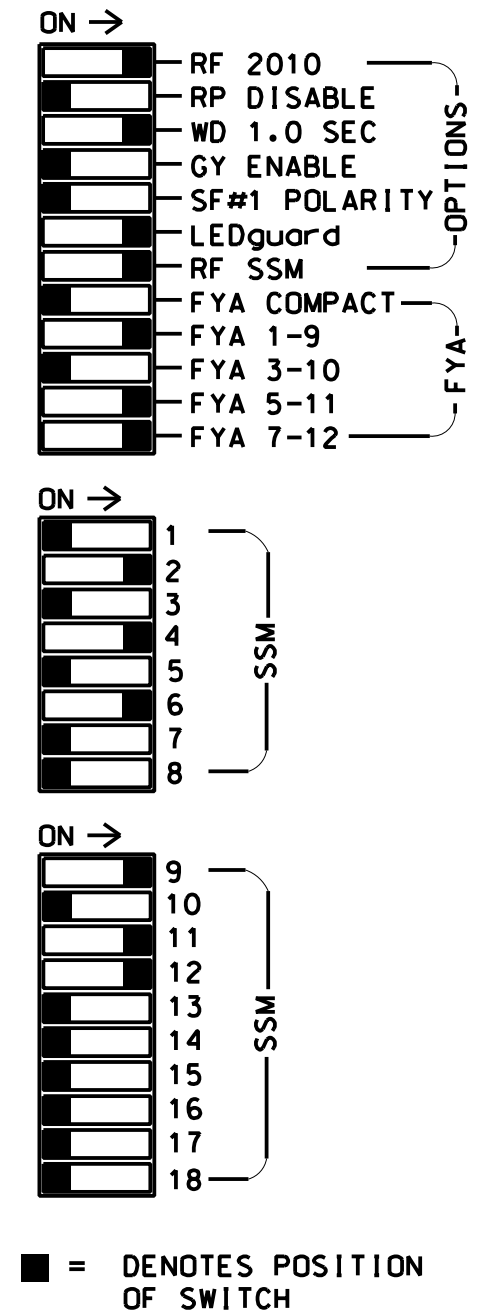
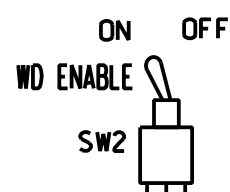
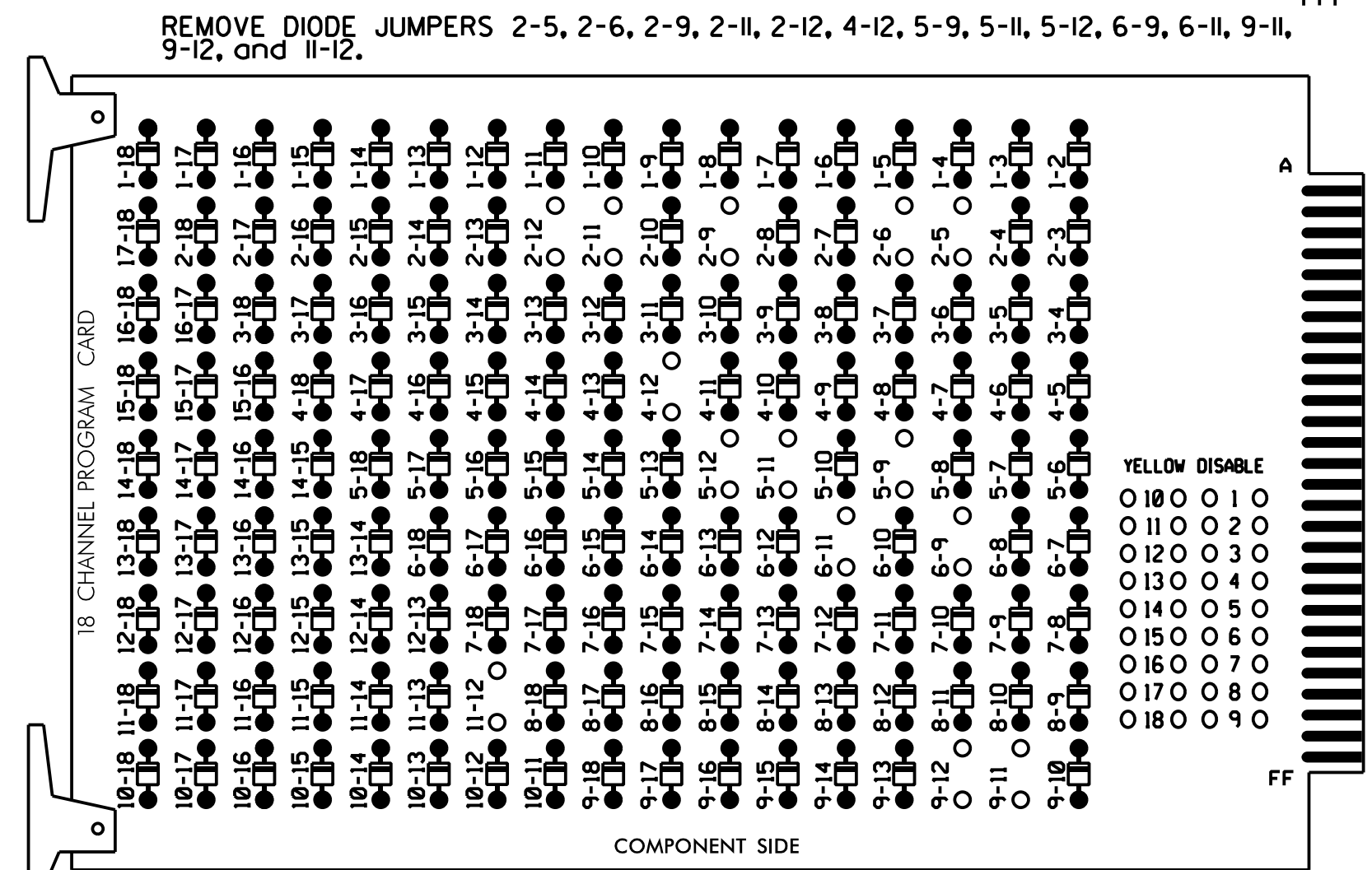


18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



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 Startup in Green.
- Program phases 2 and 6 for Yellow Flash, and overlaps 1 and 2 as Wag Overlaps.
- The cabinet and controller are part of the Wilmington Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070
 CABINET.....332 W/ AUX
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S2,S5,S7,S8,AUX S1,AUX S4,AUX S5
 PHASES USED.....2,4,5,6
 OVERLAP "A".....2
 OVERLAP "B".....NOT USED
 OVERLAP "C".....5+6
 OVERLAP "D".....4+5

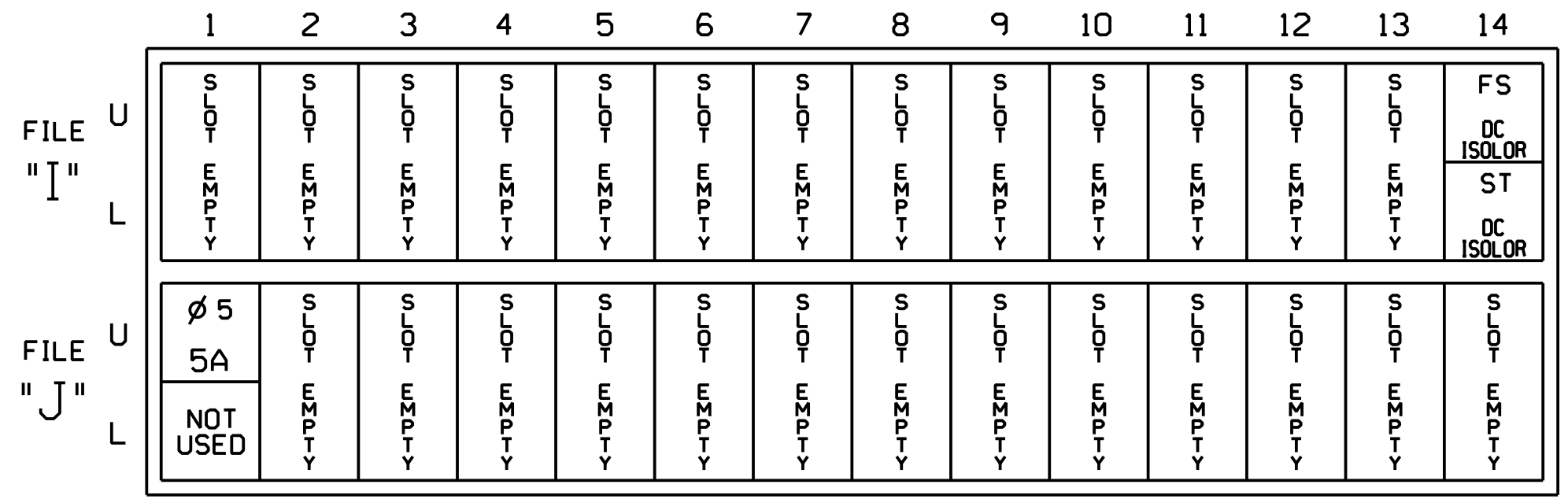
SIGNAL HEAD HOOK-UP CHART

| 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 | OLA | OLB | SPARE | OLC | OLD | SPARE |
| SIGNAL HEAD NO. | NU | 21,22 | NU | NU | 41,43 | 63 | NU | 51 | 62,63 | NU | NU | NU | 61 | NU | NU | 51 | 42 | NU |
| RED | | 128 | | | | | | | | | | | | | | | | A101 |
| YELLOW | | 129 | | | | | | * | 135 | | | | | | | | | |
| GREEN | | 130 | | | | | | | 136 | | | | | | | | | |
| RED ARROW | | | | | 101 | | | | | | | | A121 | | | | A114 | |
| YELLOW ARROW | | | | | 102 | 102 | | | | | | | A122 | | | | A115 | A102 |
| FLASHING YELLOW ARROW | | | | | | | | | | | | | A123 | | | | A116 | A103 |
| GREEN ARROW | | | | | 103 | 103 | 133 | | | | | | | | | | | |
| Hand icon | | | | | | | | | | | | | | | | | | |
| Person icon | | | | | | | | | | | | | | | | | | |

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

INPUT FILE POSITION LAYOUT

(front view)



EX.: 1A, 2A, ETC. = LOOP NO.'S
 FS = FLASH SENSE
 ST = STOP TIME

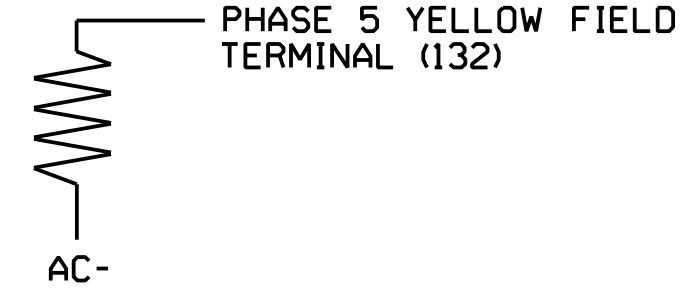
SPECIAL DETECTOR NOTE

Install a multizone microwave detection system for vehicle detection. Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting locations to accomplish detection schemes shown on the Signal Design Plans.

LOAD RESISTOR INSTALLATION DETAIL

(install resistor as shown below)

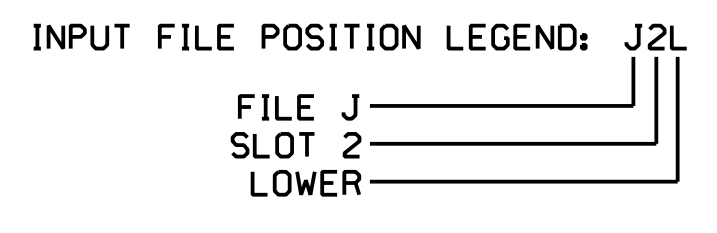
| ACCEPTABLE VALUES | VALUE (ohms) | WTAGE |
|-------------------|--------------|-----------|
| | 1.5K - 1.9K | 25W (min) |
| | 2.0K - 3.0K | 10W (min) |



INPUT FILE CONNECTION & PROGRAMMING CHART

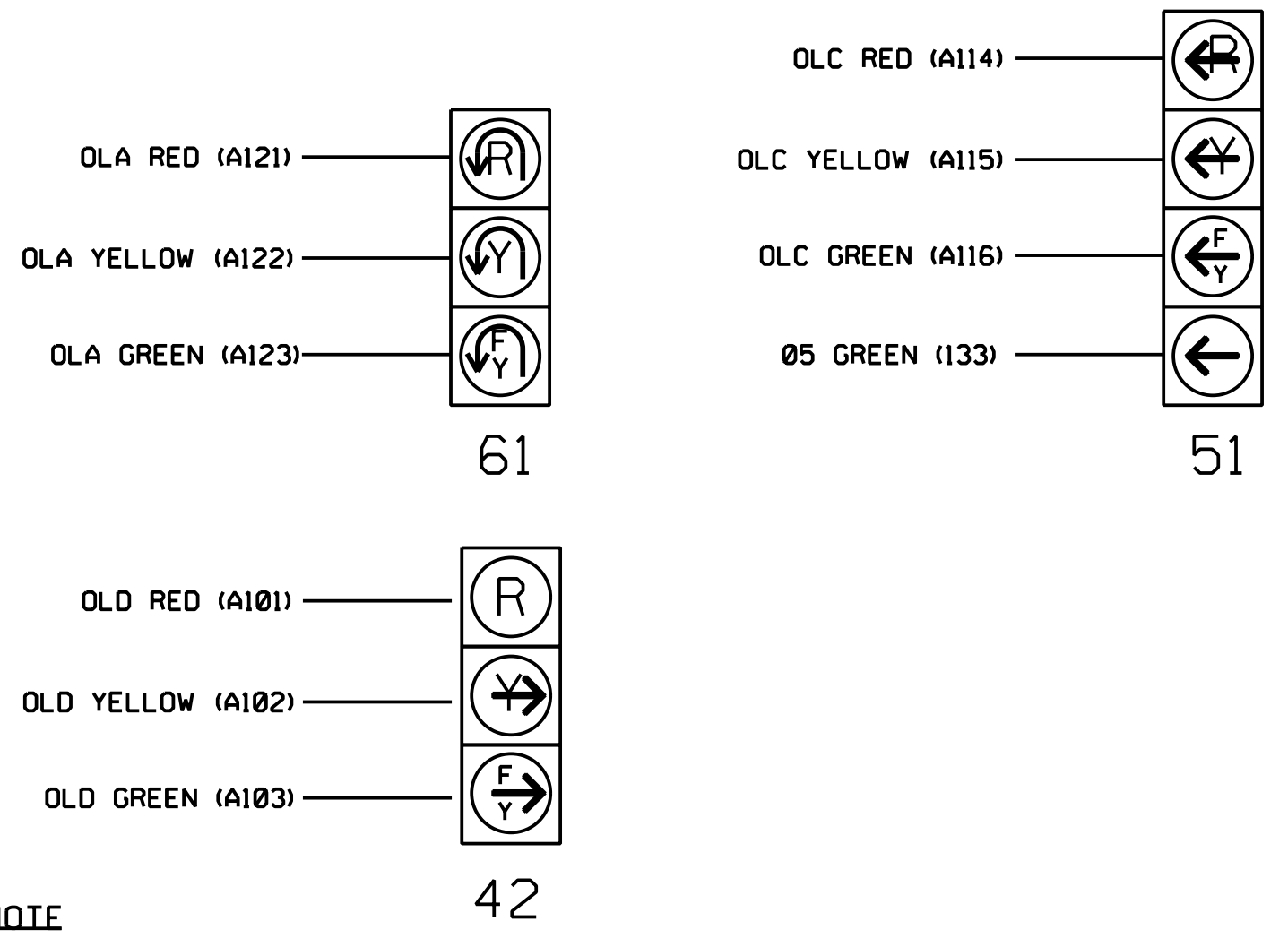
| LOOP NO. | LOOP TERMINAL | INPUT FILE POS. | PIN NO. | INPUT ASSIGNMENT NO. | DETECTOR NO. | NEMA PHASE | CALL | EXTEND | FULL TIME DELAY | STRETCH TIME | DELAY TIME |
|----------|---------------|-----------------|---------|----------------------|--------------|------------|------|--------|-----------------|--------------|------------|
| 5A | TB3-1,2 | J1U | 55 | 17 | 5 | 5 | Y | Y | | | 15 |
| | - | 14U | 47 | 9 ★ | 22 | 2 | Y | Y | | | |
| | - | J1U | 55 | 17 ★ | 55 | 5 | Y | Y | | | |

* See Input Page Assignment programming details on sheet 3.



FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



NOTE
 The sequence display for signal head 51 requires special logic programming. See sheet 2 for programming instructions.

New Installation-
 Electrical Detail - Sheet 1 of 4
 (Construction Phase 2A)

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR:

SR 2048 (Gordon Rd)
 at
 SR 2772 (Farrington Farms Dr)

Division 3 New Hanover County Wilmington

PLAN DATE: August 2023 REVIEWED BY: N.K. Vianich
 PREPARED BY: E.E. Tiller REVIEWED BY: N.R. Simmons

REVISIONS INIT. DATE

SEAL
 NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 031464
 N. R. SIMMONS
 11/8/2024

750 N. Greenfield Pkwy, Garner, NC 27529

SIG. INVENTORY NO. 03-1216T1

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-1216T1
 DESIGNED: May 2022
 SEALED: 5/17/2024
 REVISED:

This plan supersedes the plan signed and sealed on 5/17/2024.

HNTB
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