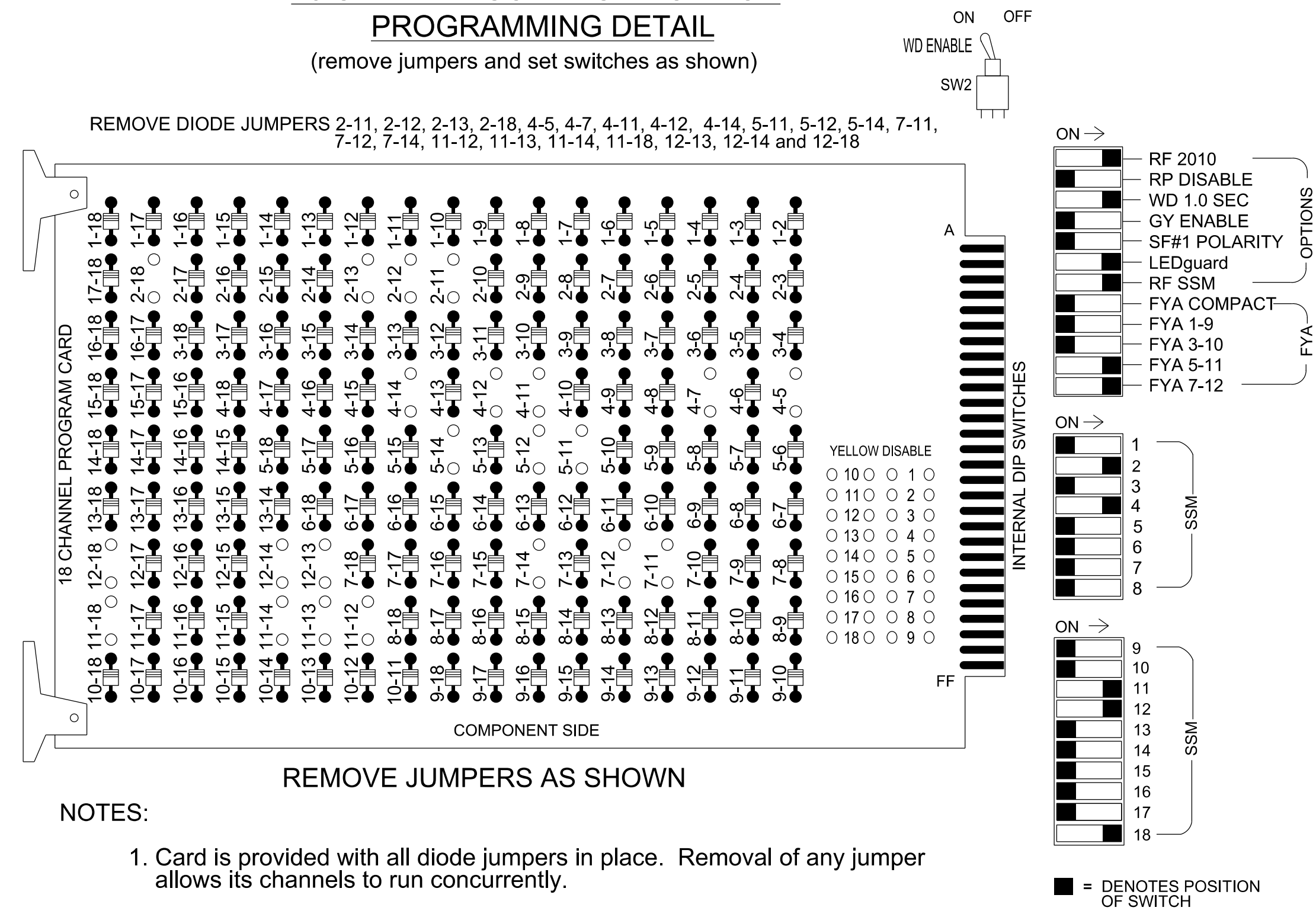


18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(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 plan.
- Program phases 4 and 7 for Dual Entry.
- Program controller to start up in phase 2 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.
- The cabinet and controller are part of the Wilkesboro Closed Loop 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.....S2,S3,S5,S6,S7,S10,AUX S4,AUX S5, AUX S6
 Phases Used.....2, 2PED, 4, 4PED, 7
 Overlap "1".....NOT USED
 Overlap "2".....NOT USED
 Overlap "3".....*
 Overlap "4".....*
 Overlap "6".....*
 Overlap "7".....*

*See overlap programming detail on sheet 2.

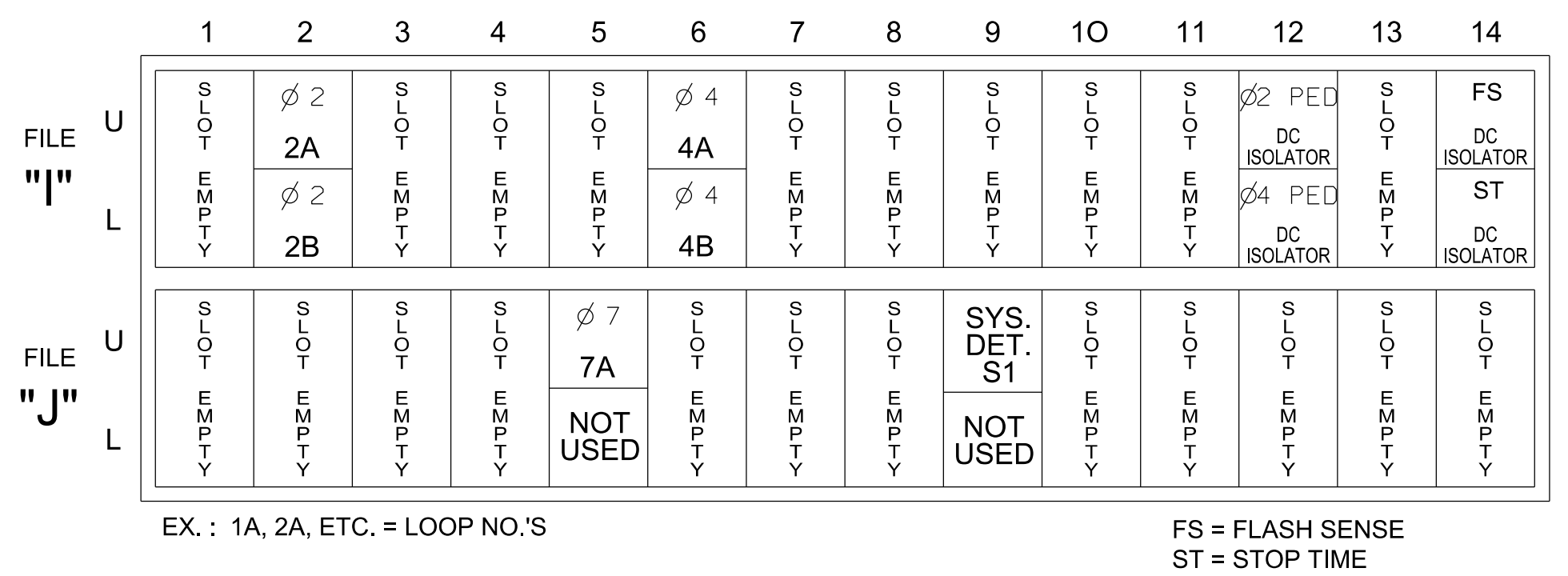
SIGNAL HEAD HOOK-UP CHART

| 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 | OL7 | 6 | 6 PED | 7 | 8 | 8 PED | OL1 | OL2 | SPARE | OL3 | OL4 | OL6 |
| SIGNAL HEAD NO. | NU | 21,22 | P21, P22 | NU | 41,42 | P41, P42 | 72* | NU | NU | 71* | NU | NU | NU | NU | NU | 72* | 71* | 23* |
| RED | | 128 | | | 101 | | | | | | | | | | | | | A104 |
| YELLOW | | 129 | | | | | * | | | * | | | | | | | | |
| GREEN | | | | | | | | | | | | | | | | | | |
| RED ARROW | | | | | | | | | | | | | | | | | | A114 A101 |
| YELLOW ARROW | | | | | | 102 | | | | | | | | | | | | A115 A102 A105 |
| FLASHING YELLOW ARROW | | | | | | | | | | | | | | | | | | A116 A103 A106 |
| GREEN ARROW | | 130 | | | 103 | | 133 | | | 124 | | | | | | | | |
| Hand icon | | | | 113 | | 104 | | | | | | | | | | | | |
| Walking person icon | | | | 115 | | 106 | | | | | | | | | | | | |

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)



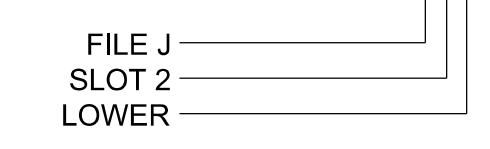
INPUT FILE CONNECTION & PROGRAMMING CHART

| LOOP NO. | LOOP TERMINAL | INPUT FILE POS. | PIN NO. | INPUT POINT | DETECTOR NO. | CALL PHASE | DELAY TIME | EXTEND TIME | EXTEND | ADDED INITIAL | QUEUE | CALL | DELAY DURING GREEN |
|------------------|---------------|-----------------|---------|-------------|--------------|------------|------------|-------------|--------|---------------|-------|------|--------------------|
| 2A | TB2-5,6 | I2U | 39 | 1 | 2 | 2 | | | | X | X | X | |
| 2B | TB2-7,8 | I2L | 43 | 5 | 3 | 2 | | | | X | X | X | |
| 4A | TB4-9,10 | I6U | 41 | 3 | 8 | 4 | 15 | | | X | | X | |
| 4B | TB4-11,12 | I6L | 45 | 7 | 9 | 4 | | | | X | | X | |
| 7A | TB5-5,6 | J5U | 57 | 19 | 21 | 7 | 15 | | | X | | X | |
| *S1 | TB7-9,10 | J9U | 59 | 21 | 27 | SYS | | | | X | | X | |
| PED PUSH BUTTONS | | | | | | | | | | | | | |
| P21,P22 | TB8-4,6 | I12U | 67 | 33 | 2 | PED 2 | | | | | | | |
| P41,P42 | TB8-5,6 | I12L | 69 | 35 | 4 | PED 4 | | | | | | | |

NOTE: INSTALL DC ISOLATOR IN INPUT FILE SLOT I12.

*System detector only. Remove any assigned vehicle phase.

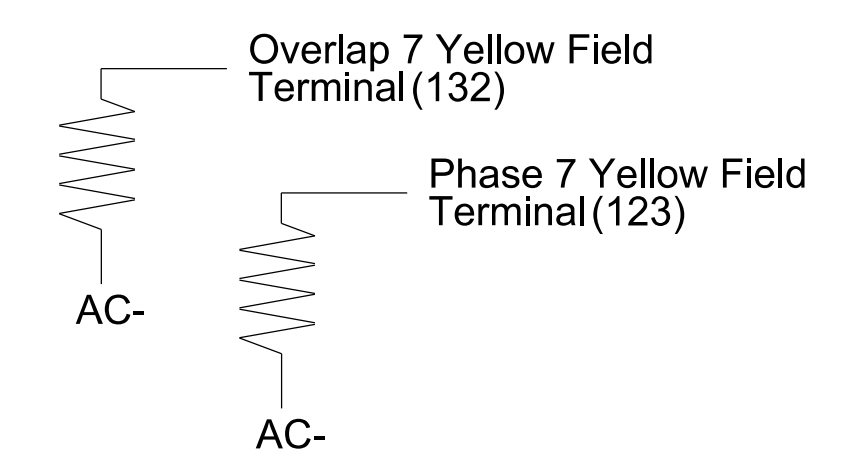
INPUT FILE POSITION LEGEND: J2L



LOAD RESISTOR INSTALLATION DETAIL

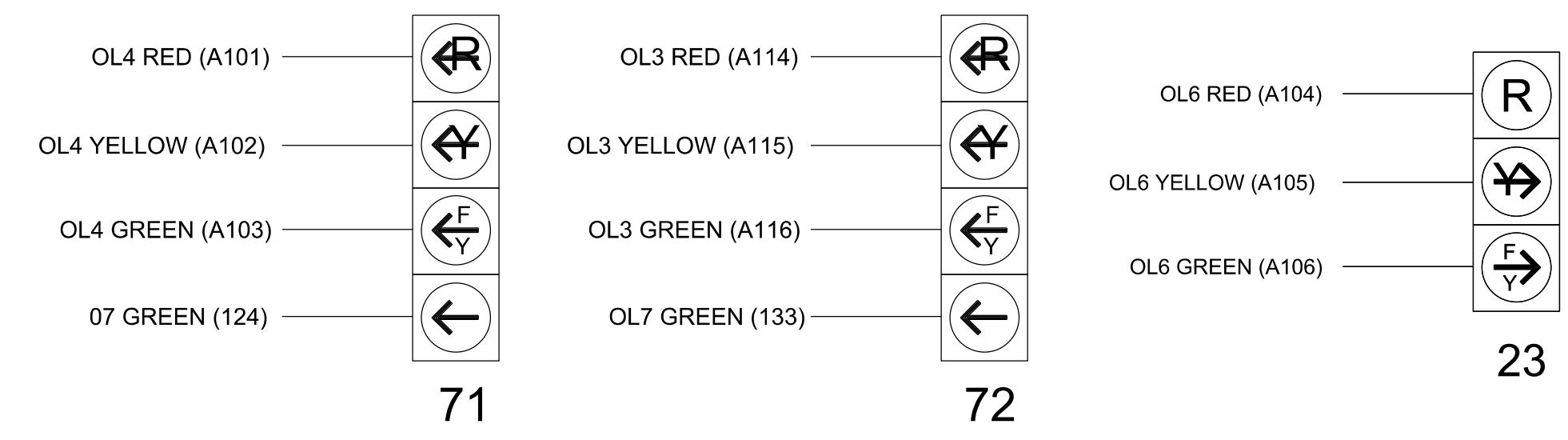
(install resistors as shown)

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



FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 11-1463
 DESIGNED: May 2023
 SEALED: 5/24/2023
 REVISED: N/A

Electrical Detail - Sheet 1 of 2

Electrical and Programming Details For:

US 421-NC 16 at Addison Ave/Walmart Entrance

Division 11 Wilkes County Wilkesboro

Prepared for the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

Plan Date: May 2023 Reviewed By: J. Ma

Prepared By: M.L. Stygles Reviewed By: S.R. Chiluka

Revisions: _____ Init. _____ Date _____

Sealed by: Matthew L. Stygles, Professional Engineer, No. 046057

Document Not Considered Final Unless All Signatures Completed

DocuSigned by: M.L. Stygles 5/24/2023

SIG. INVENTORY NO. 11-1463



5/23/2019 3:15:01 PM ***BDDP ***PCJ ***0161gn38621.03 NDDOT U-5312 Wilkes Co#NDDOT#Traffic#Signal#490% Design Plans#U5312_11-1462_Sig_Le_Addi son Ave.dgn sch11.luk