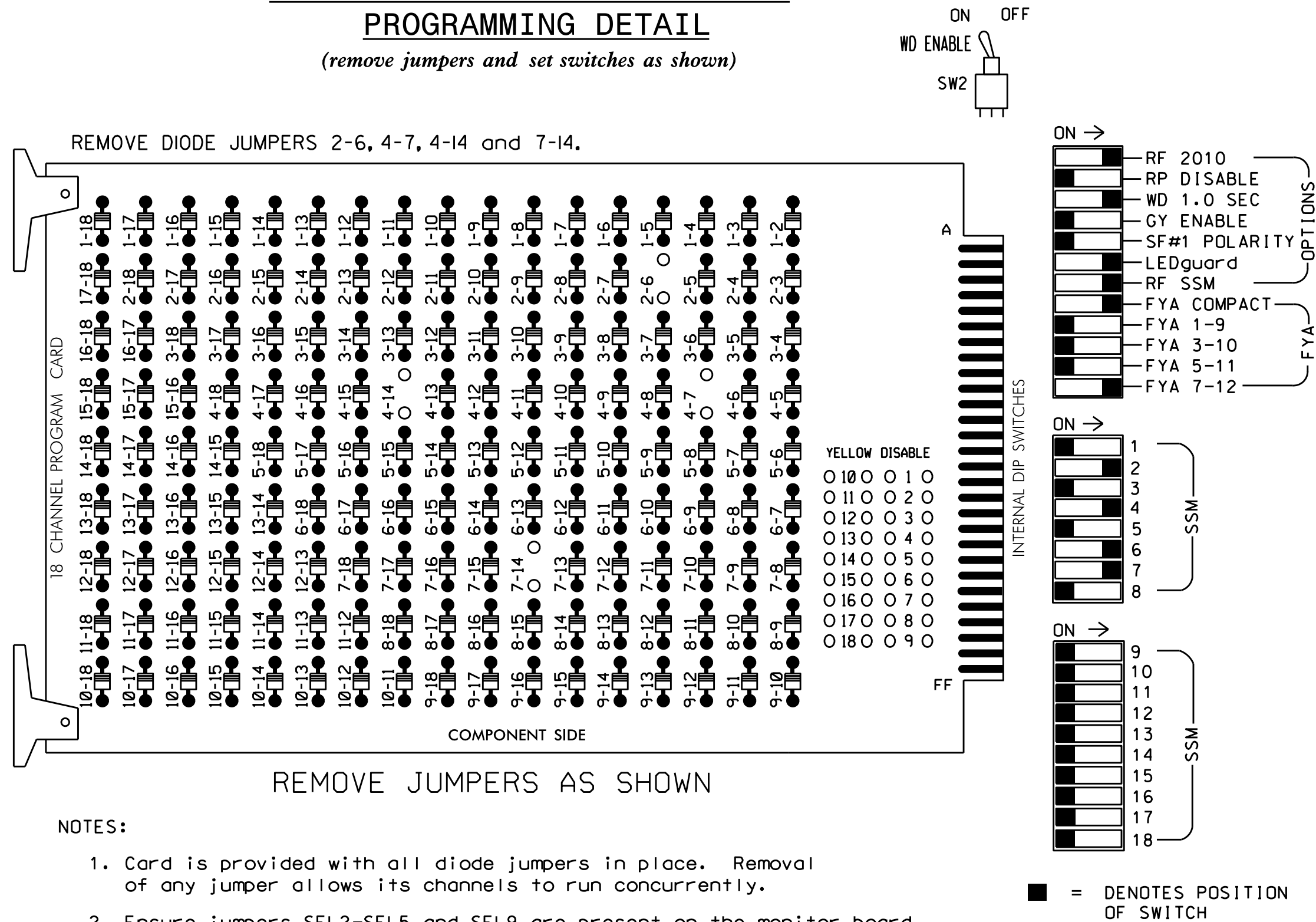


CHANNEL 18 CONFLICT MONITOR  
PROGRAMMING DETAIL

(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.
- Return controller to Factory Defaults before programming per this electrical detail.
- Enable Simultaneous Gap-Out for all Phases.
- Disable all phases for Startup In Green.
- Disabe all phases for Startup Ped Call.
- Program 2 and 6 as First Phases.
- Disable all phases for Yellow Flash.
- The cabinet and controller are part of the Winston-Salem Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070  
CABINET.....332  
SOFTWARE.....ECONOLITE OASIS  
CABINET MOUNT.....BASE  
OUTPUT FILE POSITIONS...12  
LOAD SWITCHES USED.....S2,S5,S6,S8,S10  
PHASES USED.....2,4,4 PED,6  
OVERLAP "A".....NOT USED  
OVERLAP "B".....NOT USED  
OVERLAP "C".....NOT USED  
OVERLAP "D".....NOT USED

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 | OLD | 8   | 8 PED |
| SIGNAL HEAD NO.       | NU | 21,22 | NU    | NU | 42,43 | P41, P42 | NU | 62,63 | NU    | 41  | NU  | NU    |
| RED                   |    | 128   |       |    | 101   |          |    | 134   |       |     |     |       |
| YELLOW                |    | 129   |       |    |       |          |    | 135   |       |     |     |       |
| GREEN                 |    |       |       |    |       |          |    |       |       |     |     |       |
| RED ARROW             |    |       |       |    |       |          |    |       |       | 122 |     |       |
| YELLOW ARROW          |    |       |       |    | 102   |          |    |       |       | 123 |     |       |
| FLASHING YELLOW ARROW |    |       |       |    |       |          |    |       |       | 124 |     |       |
| GREEN ARROW           |    | 130   |       |    | 103   |          |    | 136   |       |     |     |       |
| HAND                  |    |       |       |    |       | 104      |    |       |       |     |     |       |
| PEDESTRIAN            |    |       |       |    |       | 106      |    |       |       |     |     |       |

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.

INPUT FILE POSITION LAYOUT

(front view)

|          | 1                 | 2                     | 3                 | 4                 | 5                 | 6                 | 7                 | 8                 | 9                 | 10                | 11                | 12                                 | 13                | 14                |
|----------|-------------------|-----------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------------------------|-------------------|-------------------|
| FILE "I" | FS<br>DC ISOLATOR | Ø 2<br>2A<br>NOT USED | FS<br>DC ISOLATOR | FS<br>DC ISOLATOR | FS<br>DC ISOLATOR | FS<br>DC ISOLATOR | FS<br>DC ISOLATOR | FS<br>DC ISOLATOR | FS<br>DC ISOLATOR | FS<br>DC ISOLATOR | FS<br>DC ISOLATOR | NOT USED<br>Ø 4 PED<br>DC ISOLATOR | FS<br>DC ISOLATOR | FS<br>DC ISOLATOR |
| FILE "J" | FS<br>DC ISOLATOR | Ø 6<br>6A<br>NOT USED | FS<br>DC ISOLATOR | FS<br>DC ISOLATOR | FS<br>DC ISOLATOR | FS<br>DC ISOLATOR | FS<br>DC ISOLATOR | FS<br>DC ISOLATOR | FS<br>DC ISOLATOR | FS<br>DC ISOLATOR | FS<br>DC ISOLATOR | FS<br>DC ISOLATOR                  | FS<br>DC ISOLATOR | FS<br>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. | INPUT ASSIGNMENT NO. | DETECTOR NO. | NEMA PHASE | CALL | EXTEND | FULL TIME DELAY | STRETCH TIME | DELAY TIME |
|------------------|---------------|-----------------|---------|----------------------|--------------|------------|------|--------|-----------------|--------------|------------|
| 2A               | TB2-5,6       | I2U             | 39      | 1                    | 2            | 2          | Y    | Y      |                 |              |            |
| 6A               | TB3-5,6       | J2U             | 40      | 2                    | 6            | 6          | Y    | Y      |                 |              |            |
| PED PUSH BUTTONS |               |                 |         |                      |              |            |      |        |                 |              |            |
| P41,P42          | TB8-5,6       | I12L            | 69      | 31                   | PED 4        | 4 PED      |      |        |                 |              |            |

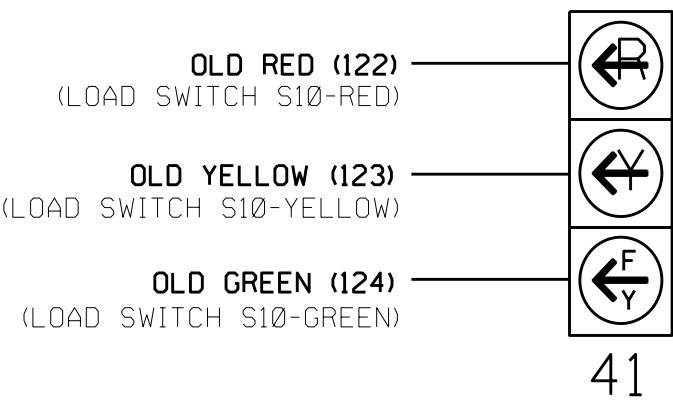
NOTE:  
INSTALL DC ISOLATORS  
IN INPUT FILE SLOT 112.

INPUT FILE POSITION LEGEND: J2L

FILE J  
SLOT 2  
LOWER

FYA SIGNAL WIRING DETAIL

(wire signal head as shown)



THIS ELECTRICAL DETAIL IS FOR  
THE SIGNAL DESIGN: 09-0327T2  
DESIGNED: Janaury 2025  
SEALED: 01-02-25  
REVISED: N/A

SPECIAL DETECTOR NOTE

For loopS, 4A,4B and 4C install a non-intrusive 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.

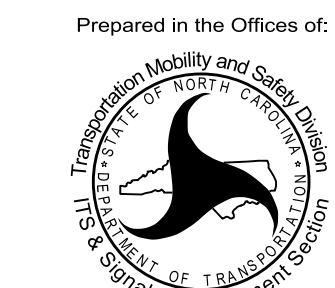
ADVANCE WALK NOTE

(program controller as shown below)

From Main Menu press '2' (Phase Control), then '1' (Phase Control Functions). Program phase 4 for 'Advanced Walk'. Make sure the Walk Advance Time shown on the Signal Design plans are programmed in the 'Phase Timing' menu.

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

Electrical and Programming Details For:



750 N. Greenfield Pkwy, Garner, NC 27529

SR 2741 (Clemmonsville Road)  
at  
I-40 EB Ramp

|                             |                |               |
|-----------------------------|----------------|---------------|
| Division 9                  | Forsyth County | Winston-Salem |
| PLAN DATE: Janaury 2025     | REVIEWED BY:   |               |
| PREPARED BY: James Peterson | REVIEWED BY:   |               |
| REVISIONS                   | INIT.          | DATE          |
|                             |                |               |
|                             |                |               |

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL  
NORTH CAROLINA  
PROFESSIONAL ENGINEER  
SEAL 036833  
RYAN W. HOUGH  
Signed by: Ryan W. Hough 1/13/2025  
DATE  
43032025A2054C3  
SIG. INVENTORY NO. 09-0327T2