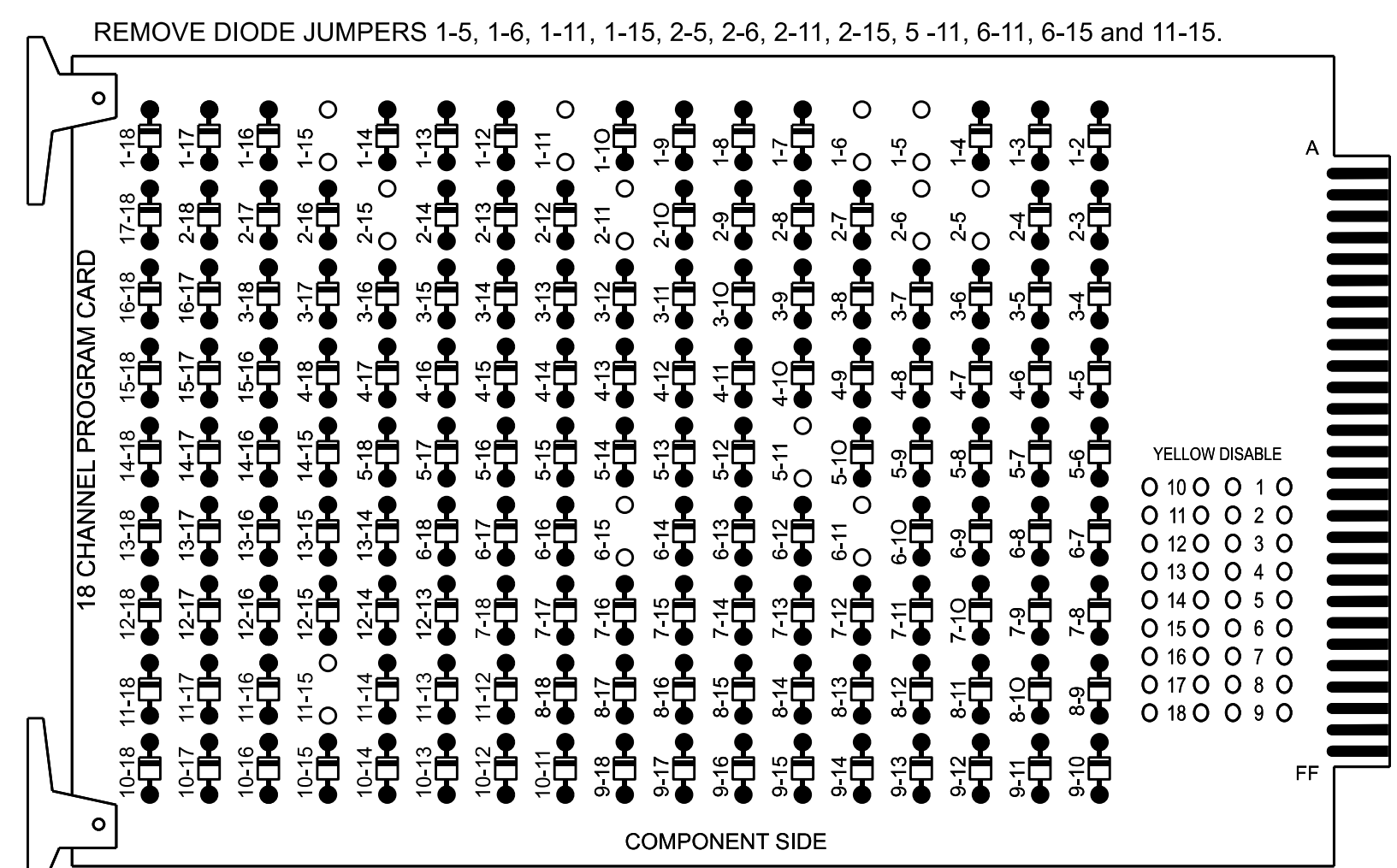


18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

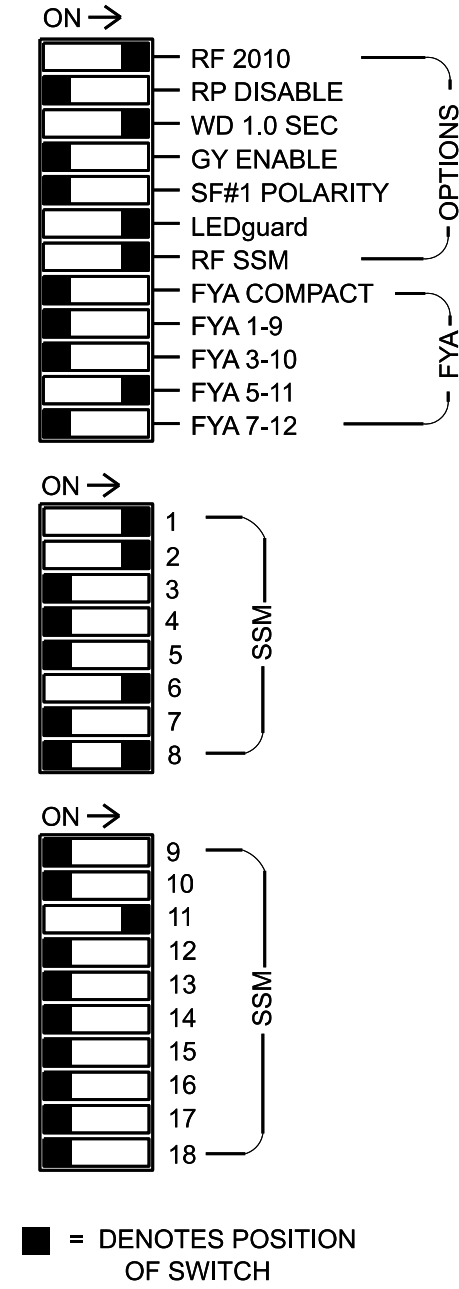
(remove jumpers and set switches as shown)



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 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.



■ = DENOTES POSITION OF SWITCH

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.
- Program phases 2 and 6 for Variable Initial and Gap Reduction.
- Disable all phases for Startup In Green.
- Program phases 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 W/ AUX
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S1,S2,S7,S8,S9,S11,AUX S4
 PHASES USED.....1,2,5,6,6PED,8
 OVERLAP "A".....NOT USED
 OVERLAP "B".....NOT USED
 OVERLAP "C".....5+6
 OVERLAP "D".....NOT USED

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.	11	82	21,22	NU	NU	NU	51	61,62	P61, P62	NU	81	82,83	NU	NU	NU	51	NU	NU	
RED			128						134		107	107							
YELLOW			129				*	135			108	108							
GREEN			130					136			109	109							
RED ARROW	125																	A114	
YELLOW ARROW	126	126																	A115
FLASHING YELLOW ARROW																			A116
GREEN ARROW	127	127						133			109								
Hand												119							
Person												121							

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)

FILE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS
L	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS
U	∅ 5	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS
L	5A	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS
U	NOT USED	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS
L	NOT USED	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS	TOFS

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

FS = FLASH SENSE
 ST = STOP TIME

⊗ Wired Input - Do not populate slot with detector card

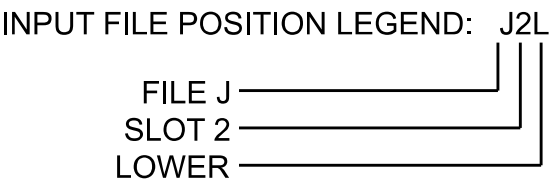
INPUT FILE CONNECTION & PROGRAMMING CHART

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 ¹	TB3-1,2	J1U	55	17	5	5	Y	Y			15
	-	I4U	47	9*	22	2	Y	Y	Y		3
	-	J1U	55	17*	55	5	Y	Y			
PED PUSH BUTTONS											
P61,P62	TB8-7,9	I13U	68	30	PED 6	6 PED					

NOTE:
 INSTALL DC ISOLATOR IN INPUT FILE SLOT 113.

¹ Add jumper from J1-W to I4-W, on rear of input file.

* See Input Page Assignment programming details on sheet 3.

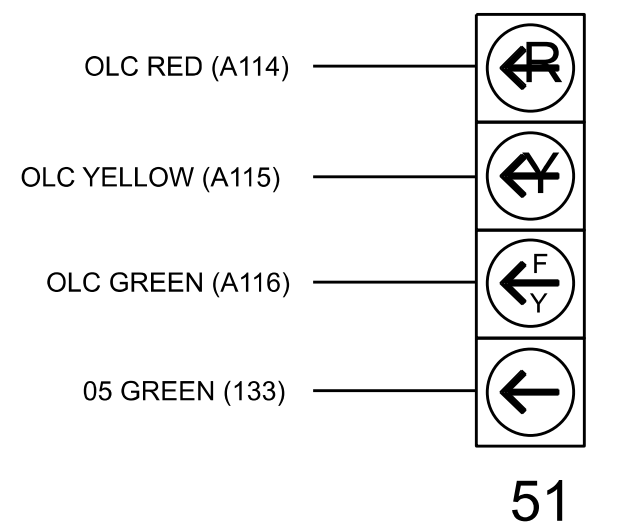


SPECIAL DETECTOR NOTE

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.

For detection zone 5A, detector card placement and slots reserved for wired inputs are typical for a NCDOT installation. Inputs associated with this slot are compatible with time of day instructions located on sheets 3 and 4.

FYA SIGNAL WIRING DETAIL



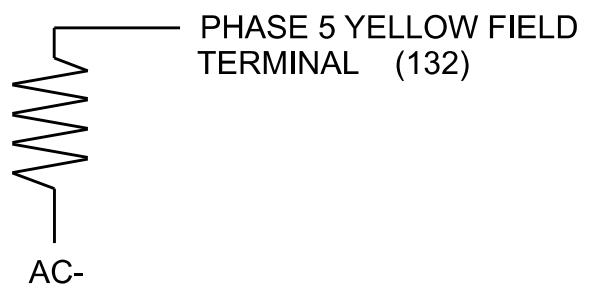
NOTE
 The sequence display for signal head 51 requires special logic programming. See sheet 2 for programming instructions.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 09-0798T2
 DESIGNED: December 2025
 SEALED: 2-12-26
 REVISED: N/A

LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown below)

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



Electrical Detail - Sheet 1 of 4

Electrical and Programming Details For: SR 4000 (University Parkway) at N. Pattern Avenue and US 52 NB Ramps

Prepared in the Offices of: Transportation Mobility and Safety Division, Forsyth County, Winston-Salem, NC

Division 9
 PLAN DATE: February 2026
 PREPARED BY: James Peterson
 REVISIONS: _____

REVIEWED BY: _____
 DATE: _____

750 N. Greenfield Pkwy, Garner, NC 27529

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL
 KATH M. MIMS
 ENGINEER
 02/12/2026

SIG. INVENTORY NO. 09-0798T2