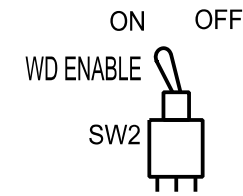
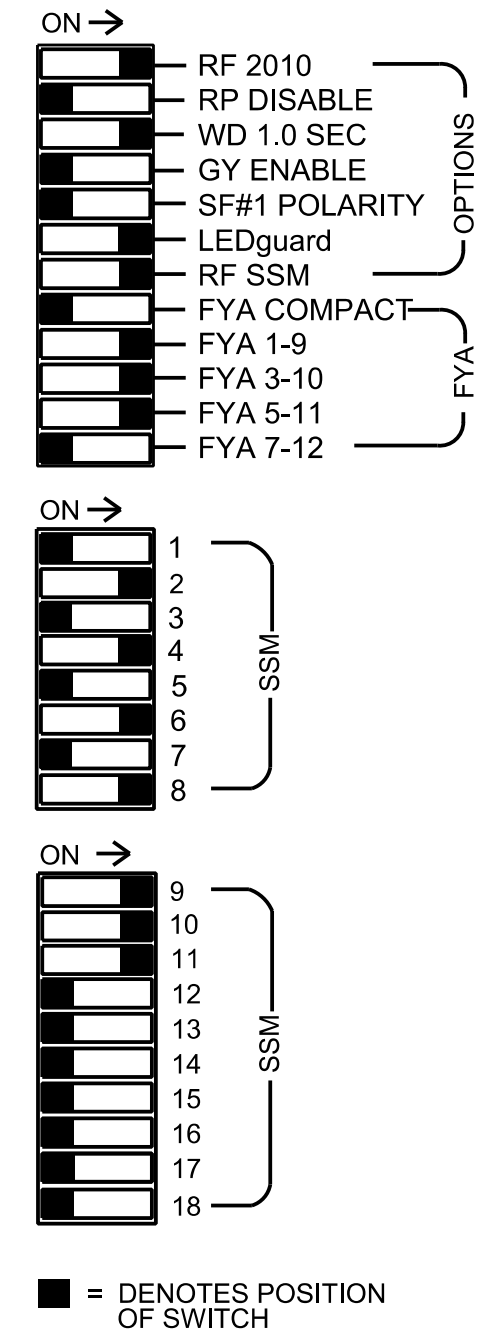
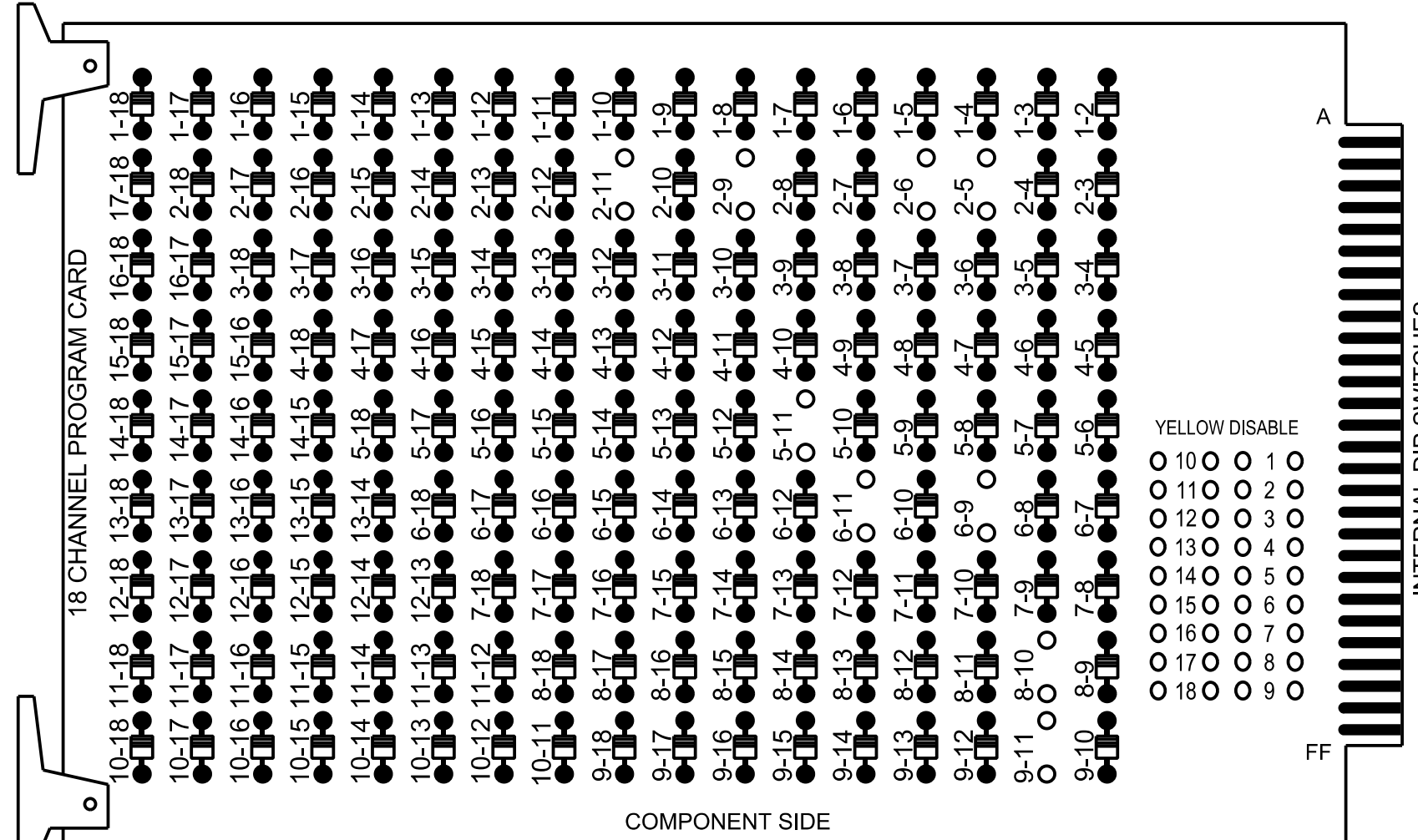


### 18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



REMOVE DIODE JUMPERS 2-5, 2-6, 2-9, 2-11, 5-11, 6-9, 6-11, 8-10, and 9-11.



REMOVE JUMPERS AS SHOWN

#### NOTES:

1. Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
2. Ensure jumpers SEL2-SEL5 and SEL9 are present on the monitor board.
3. Ensure that the Red Enable is active at all times during normal operation.
4. Integrate monitor with Ethernet network in cabinet.

### NOTES

1. 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.
2. Program controller to start up in phase 2 Green No Walk and 6 Green No Walk.
3. If this signal will be managed by an ATMS software, enable controller and detector logging for all enabled 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,S7,S8,S11,AUX S1,AUX S2  
 AUX S4  
 Phases Used.....2,5,6,8  
 Overlap "1".....\*  
 Overlap "2".....\*  
 Overlap "3".....\*  
 Overlap "4".....Not Used

\*See overlap programming detail on sheet 2

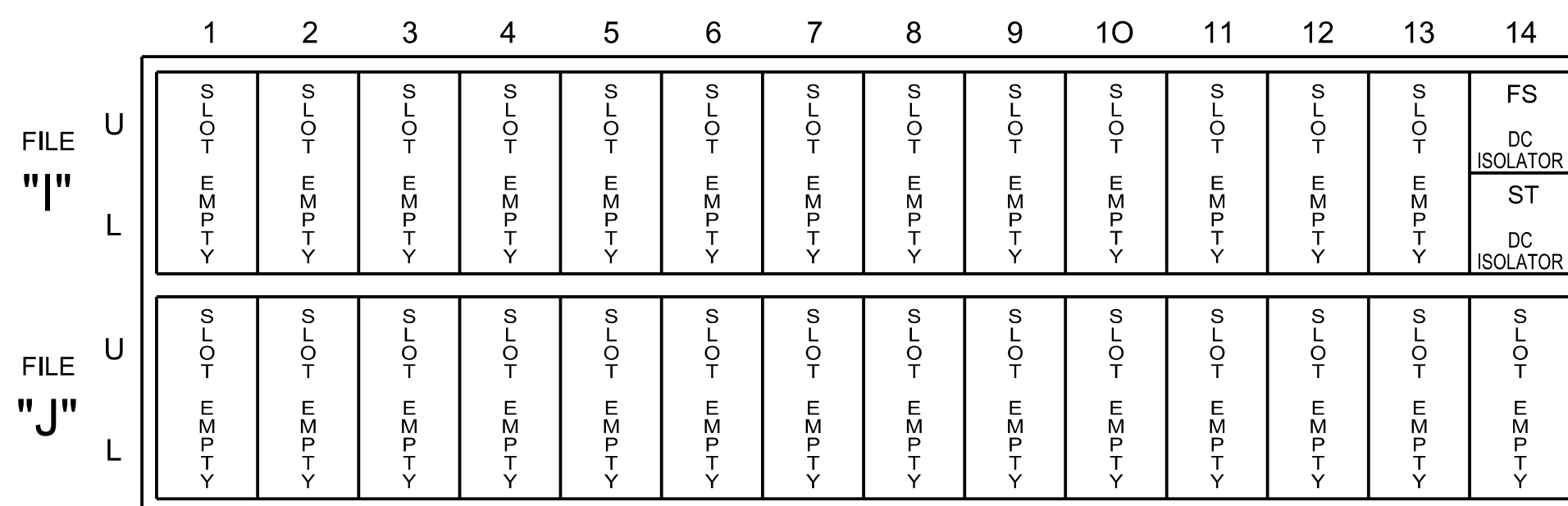
### SIGNAL HEAD HOOK-UP CHART

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	5	6	6 PED	7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE	
SIGNAL HEAD NO.	NU	21	22	NU	NU	NU	NU	51*	61	62	NU	NU	82,83	NU	63*	81*	NU	51*	NU
RED		128	128							134	134								A121
YELLOW			129	129				*		135	135								
GREEN				130															
RED ARROW																			A124
YELLOW ARROW																			A114
FLASHING YELLOW ARROW																			A125
GREEN ARROW				130															A115
FLASHING GREEN ARROW																			A123
A126																			A116
Hand Symbol																			
Ped Symbol																			

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)

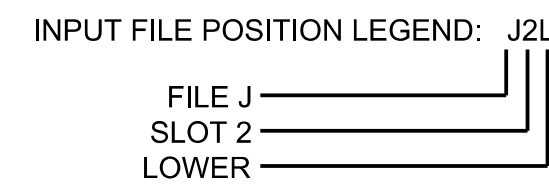


EX.: 1A, 2A, ETC. = LOOP NO.'S FS = FLASH SENSE ST = STOP TIME

### INPUT FILE CONNECTION & PROGRAMMING CHART

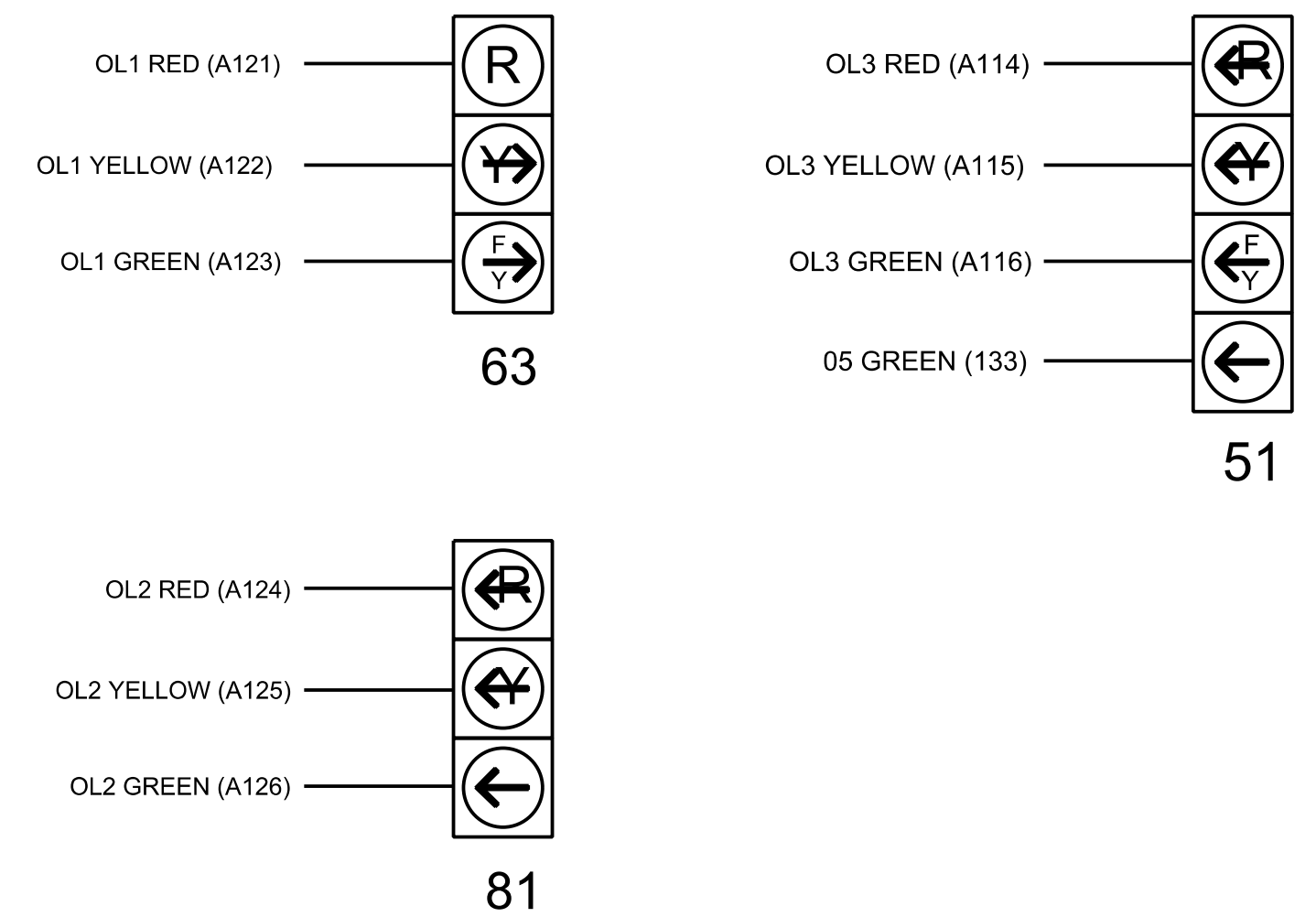
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
5A	TB3-1,2	J1U	55	17	15*	5	15			X	X	X
				-	31*	2	3			X	X	X

\* For the detectors to work as shown on the signal design plan, see the Detector Programming Detail for Alternate Phasing on Sheet 2.



### FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



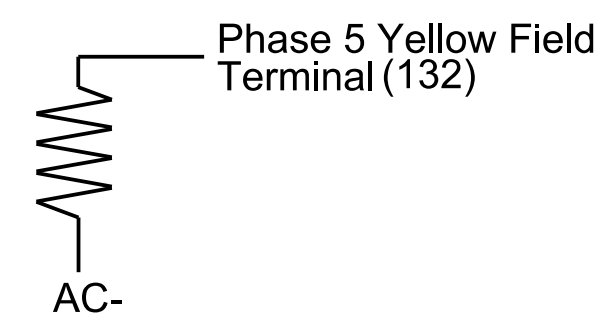
### SPECIAL DETECTOR NOTE

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.

### LOAD RESISTOR INSTALLATION DETAIL

(install resistor as shown)

ACCEPTABLE VALUES	Value (ohms)	Wattage
1	1.5K - 1.9K	25W (min)
2	2.0K - 3.0K	10W (min)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 08-0503T  
 DESIGNED: AUGUST 2021  
 SEALED: 05/21/2024  
 REVISED:

**HNTB** HNTB NORTH CAROLINA, P. C.  
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 Raleigh, North Carolina 27609  
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New Installation  
 Temporary Design  
 Electrical Detail - Sheet 1 of 3

DOCUMENT NOT CONSIDERED FINAL  
 UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared for the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

NC 49/SR 1713 (Albemarle Rd) at I-73-US 220 NB/I-74 WB Ramps

Division 8 Randolph County Asheboro

PLAN DATE: August 2021	REVIEWED BY: A.D. Klinksiek
PREPARED BY: N.K. Vianich	REVIEWED BY: N.R. Simmons

REVISIONS

INIT. DATE

DocuSigned by: *Nelasha R. Simmons* 5/21/2024

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 031464

SIG. INVENTORY NO. 08-0503T