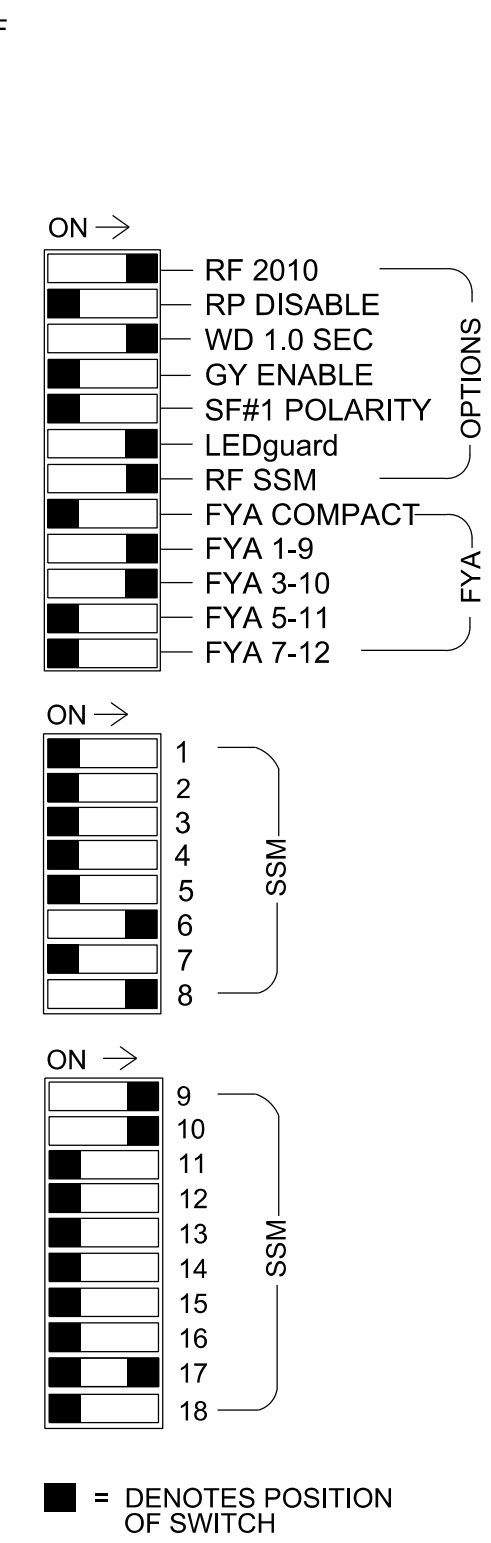
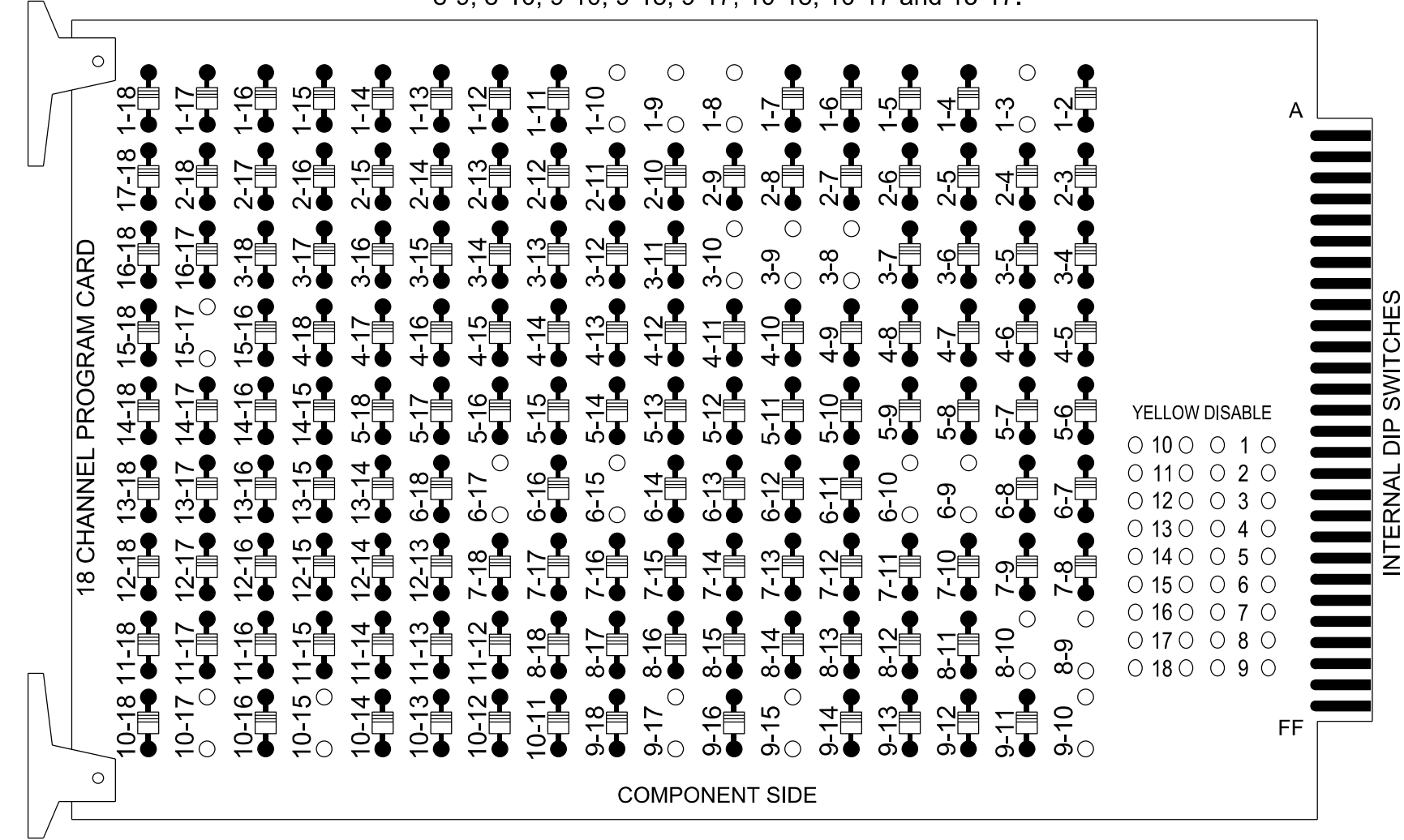


### 18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-3, 1-8, 1-9, 1-10, 3-8, 3-9, 3-10, 6-9, 6-10, 6-15, 6-17, 8-9, 8-10, 9-10, 9-15, 9-17, 10-15, 10-17 and 15-17.



**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 the 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.

### 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 controller to start up in phase 6 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.

### 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.....S1,S4,S8,S9,S11,AUX S1,AUX S2,AUX S3  
 Phases Used.....3,6,6 PED,8  
 Overlap "1".....\*  
 Overlap "2".....\*  
 Overlap "3".....NOT USED  
 Overlap "4".....NOT USED  
 Overlap "5".....\*  
 Overlap "7".....\*

\*See overlap programming detail on sheet 2.

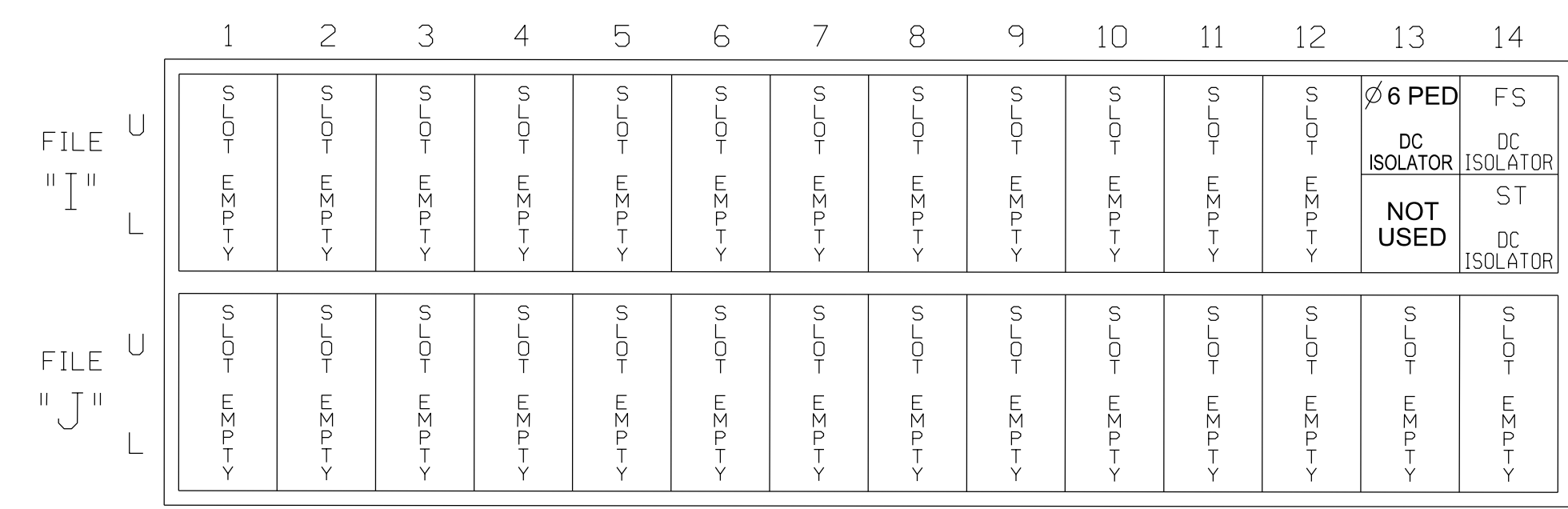
### SIGNAL HEAD HOOK-UP CHART

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	OL7	2	PED	3	4	PED	5	6	PED	7	8	PED	OL1	OL2	OL5	OL3	OL4	SPARE
SIGNAL HEAD NO.	32*	NU	NU	31*	NU	NU	NU	61,62	P61, P62	NU	81,82	NU	32*	31*	63*	NU	NU	NU
RED								134		107					A111			
YELLOW	*			*				135										
GREEN																		
RED ARROW														A121	A124			
YELLOW ARROW										108				A122	A125	A112		
FLASHING YELLOW ARROW														A123	A126	A113		
GREEN ARROW	127			118				136		109								
Hand icon										119								
Walking person icon										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)



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	QUEUE	CALL	DELAY DURING GREEN
PED PUSH BUTTONS P61,P62	TB8-7,9	I13U	68	34	6	PED 6							

NOTE: INSTALL DC ISOLATOR IN INPUT FILE SLOT I13.

INPUT FILE POSITION LEGEND: J2L  
 FILE J  
 SLOT 2  
 LOWER

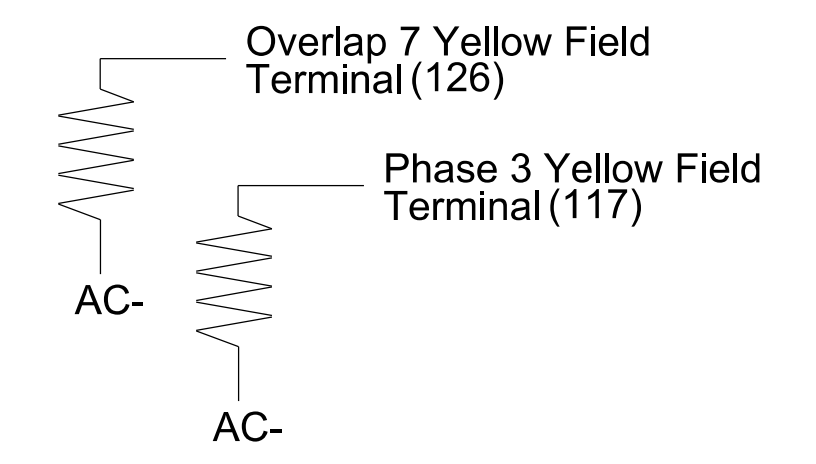
### SPECIAL DETECTOR NOTE

Install a video 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

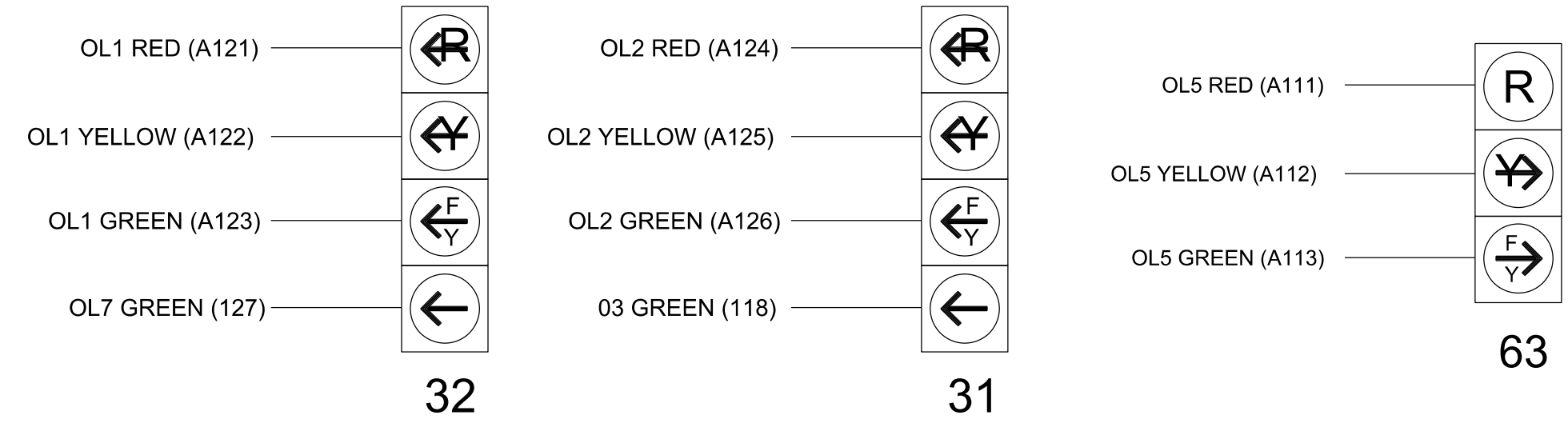
(install resistors as shown)

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: 11-1044T4  
 DESIGNED: May 2023  
 SEALED: 5/24/2023  
 REVISED: N/A

Temporary Installation - Electrical Detail 1 of 2 (Phase 13)

**ELECTRICAL AND PROGRAMMING DETAILS FOR:**

US 421 at SR 1322 (Winkler Mill Road)

Division 11 Wilkes County Wilkesboro

PLAN DATE: May 2023 REVIEWED BY: J. Ma  
 PREPARED BY: M.L. Stygles REVIEWED BY: S.R. Chiluka

REVISIONS	INIT.	DATE

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



DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

**SEAL**  
 NORTH CAROLINA PROFESSIONAL ENGINEER  
 MATHREW L. STYGLES  
 046057

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

SIGNATURE DATE

919.829.0328

5/23/2019 3:15:01 PM \*\*\*BDD:\*\*\* C:\Users\m5312\OneDrive\Documents\Signal\11-1044T4\_Sig.ele\Winkler Mill Red.dgn