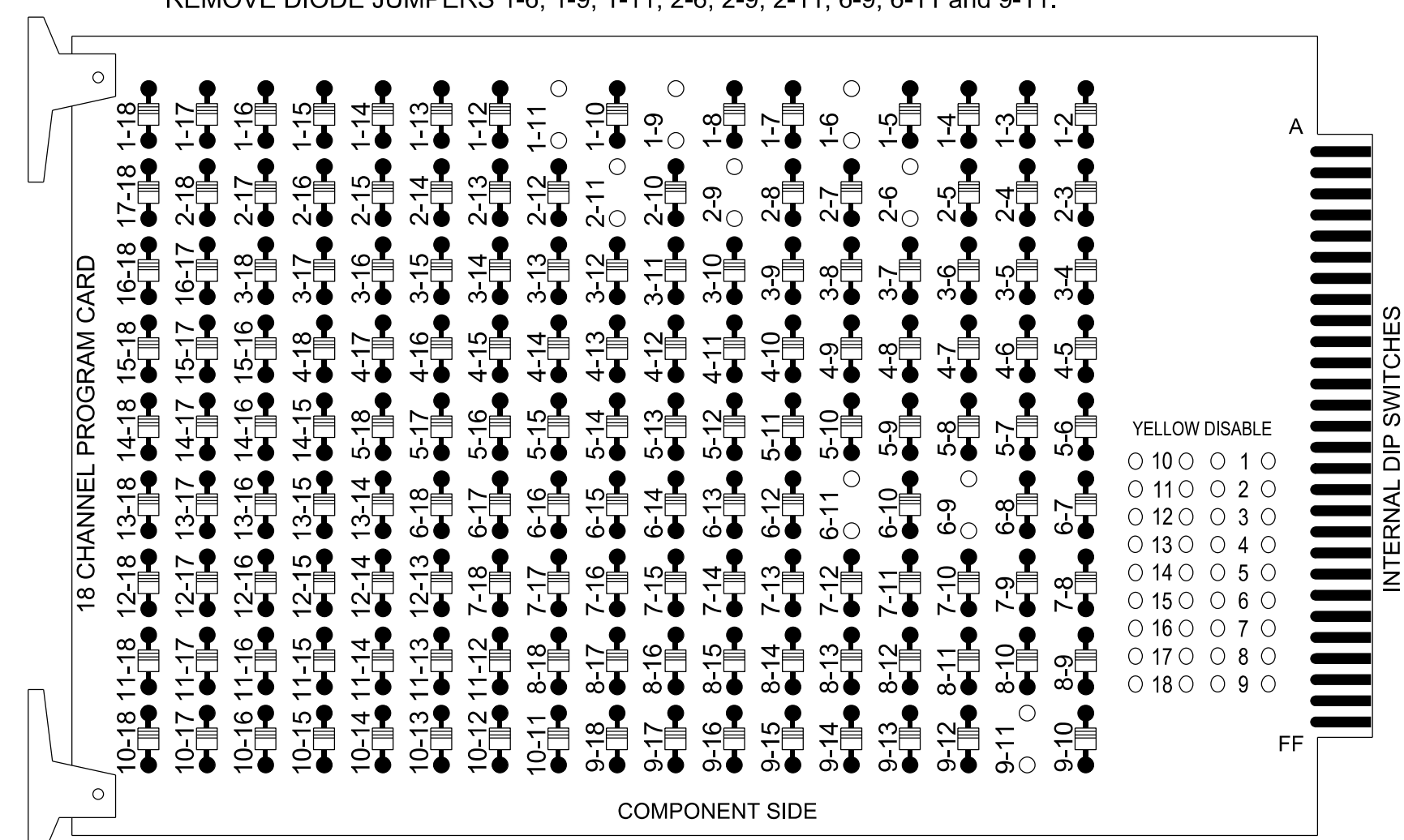


18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

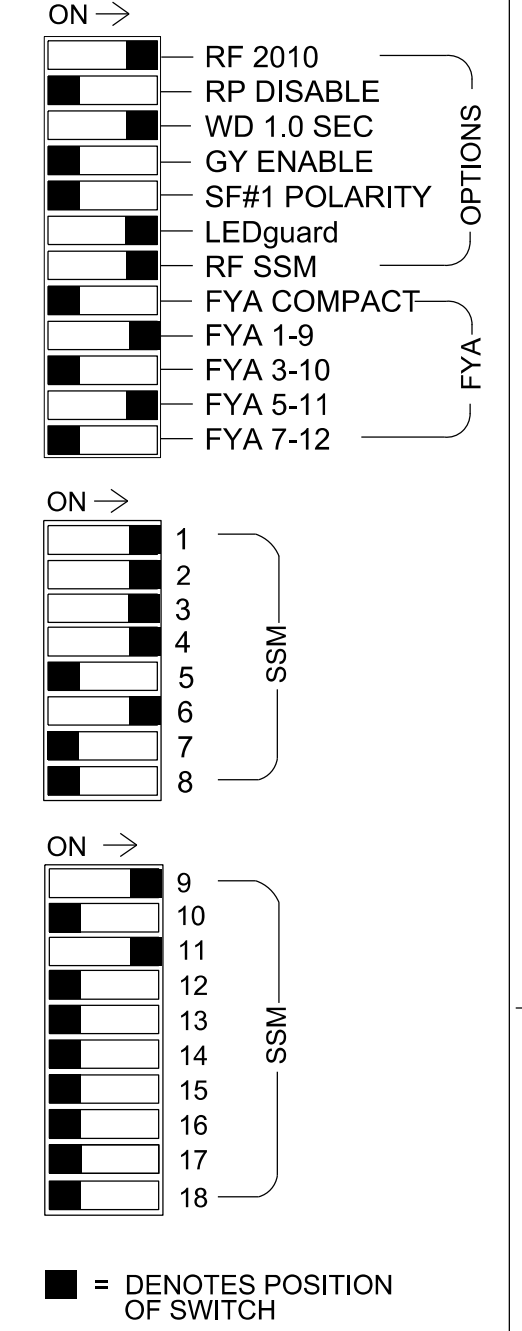
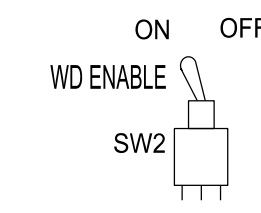
(remove jumpers and set switches as shown)



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 the Red Enable is active at all times during normal operation.
- Integrate monitor with Ethernet network in the cabinet.



NOTES

- To prevent "flash-conflict" problems, insert red flash program blocks for all 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 2 Green No Walk and 6 Green No Walk.
- Program phase 2 and phase 6 for Advance Warning.
- Program phase 2 and phase 6 for 3.0 seconds of Pre Clearance.
- 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 US 17 Bus. (MLK Blvd) D02-15_New Bern 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.....S1, S2, S3**, S4, S5, S6**, S8, S9**, S12**, AUX S1, AUX S4
 Phases Used.....1, 2, 3, 4, 6
 Overlap "1".....*
 Overlap "2".....NOT USED
 Overlap "3".....*
 Overlap "4".....NOT USED

*See overlap programming detail on sheet 2
 ** Used for Advance Beacon Control only

SIGNAL HEAD HOOK-UP CHART

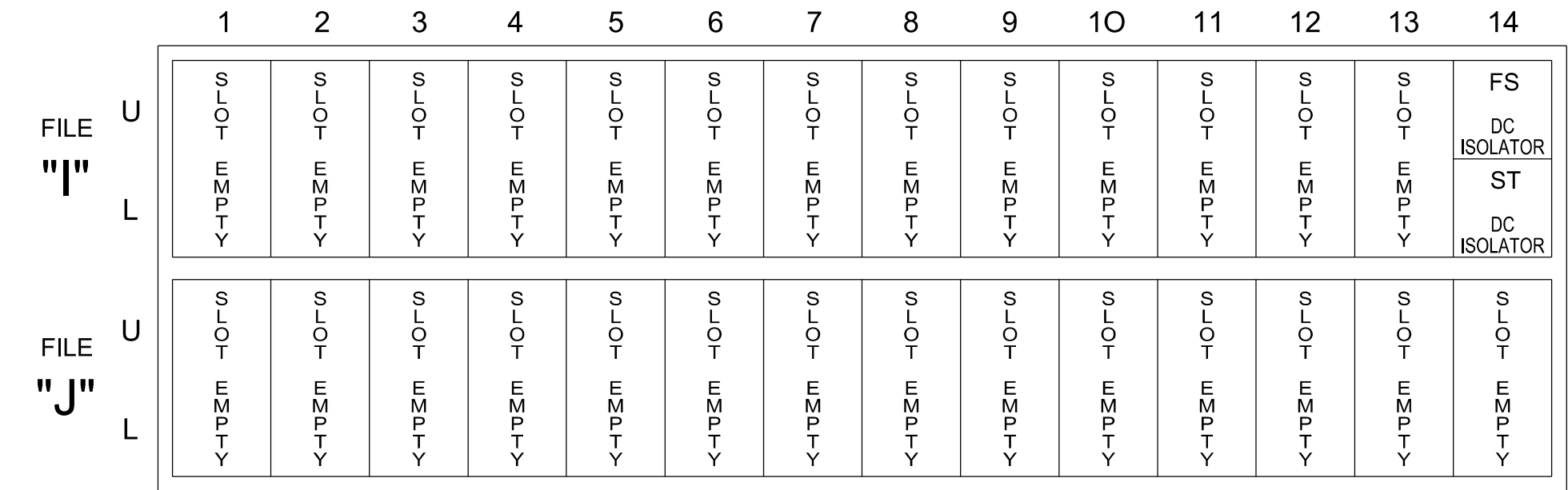
LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6					
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18					
PHASE	1	2	2 PED ADVANCE BEACON	3	4	4 PED ADVANCE BEACON	5	6	6 PED ADVANCE BEACON	7	8	8 PED ADVANCE BEACON	OL1	OL2	SPARE	OL3	OL4	SPARE					
SIGNAL HEAD NO.	11*	32	22,23	NU	24,26	23	31	32	41	42	62	NU	63,65	NU	61,62	NU	25,27	NU	NU				
RED	*	128			116	116	101	101							134								
YELLOW		129			117	117	102	102							135								
GREEN		130			118	118	103	103							136								
RED ARROW																			A121			A114	
YELLOW ARROW		126			117				102											A122			A115
FLASHING YELLOW ARROW																				A123			A116
GREEN ARROW	127	127			118	118	103	103															
Hand					**	**							**	**									**
Walking			*							*		*										*	

NU = Not Used

- * Denotes install load resistor. See load resistor installation detail this sheet.
- * See pictorial of head wiring in detail this sheet.
- ** Advance Beacons will be wired to S2P-Y, S4P-Y, S6P-Y and S8P-Y. See wiring and programming detail on sheet 3.

INPUT FILE POSITION LAYOUT

(front view)



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

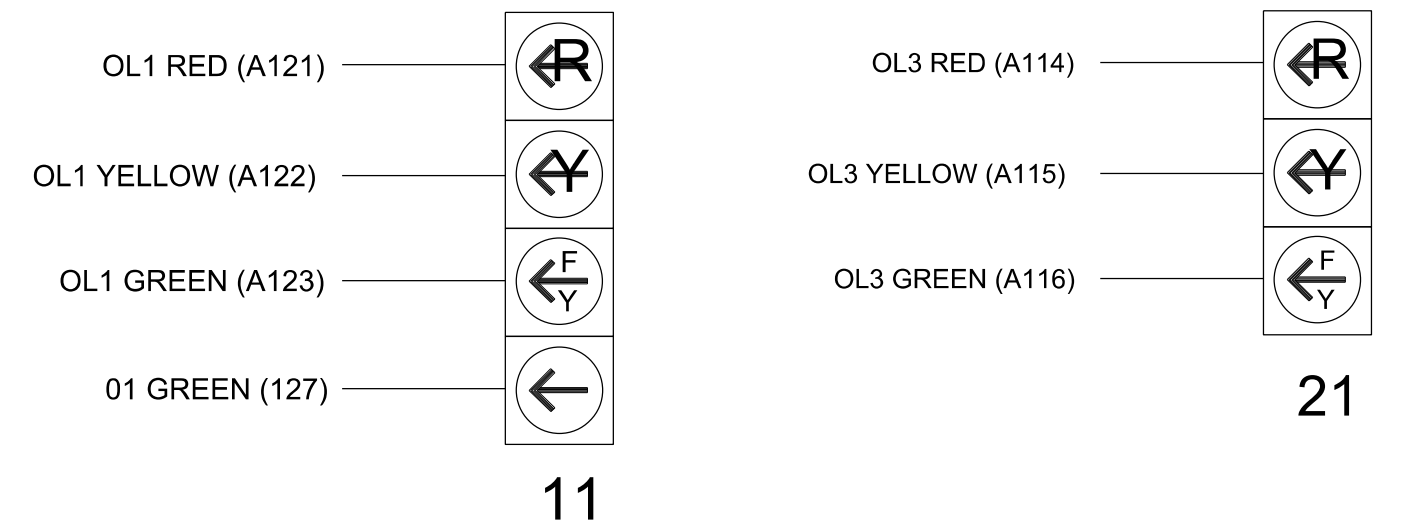
Note: ALL INPUT SLOTS TO REMAIN EMPTY.

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.

FYA SIGNAL WIRING DETAIL

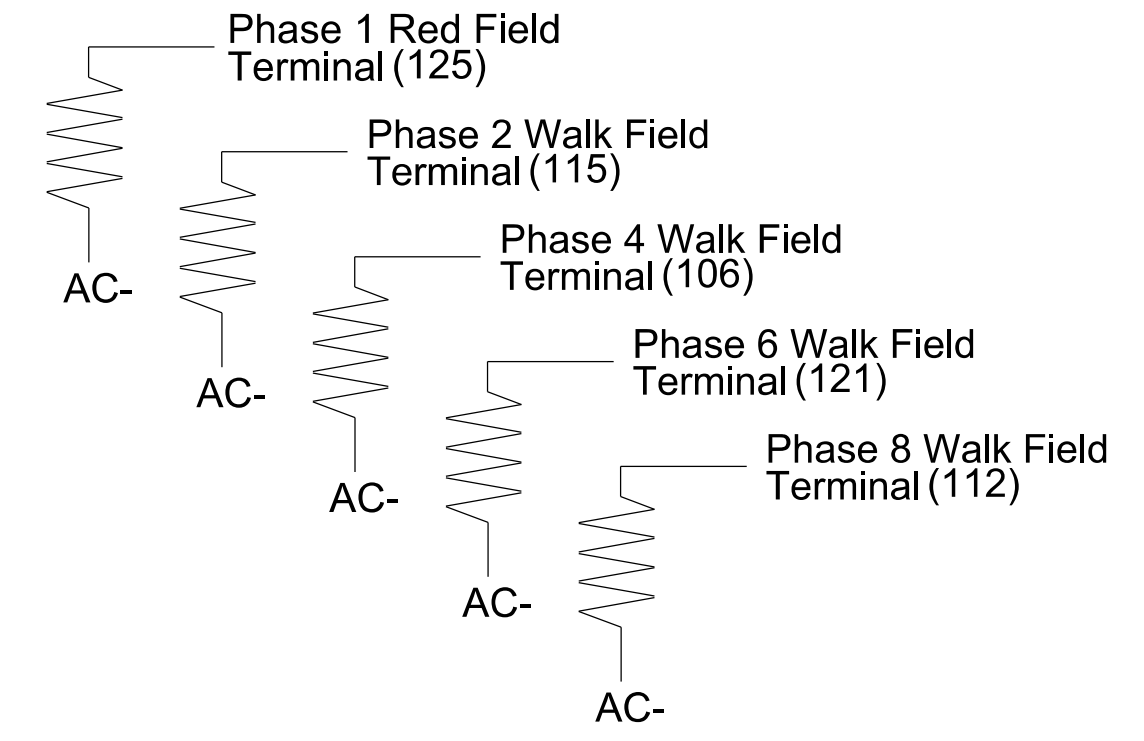
(wire signal heads as shown)



LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)

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



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 02-0629T1-T4
 DESIGNED: Apr 2025
 SEALED: 4/24/2025
 REVISED: N/A

Electrical and Programming Details For:
 Sheet 1 of 3

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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	PLAN DATE: April 2025 PREPARED BY: DJ White DRMP PROJ. NO.: 17359 (040)	REVIEWED BY: BN Groome DATE: 4/24/2025	