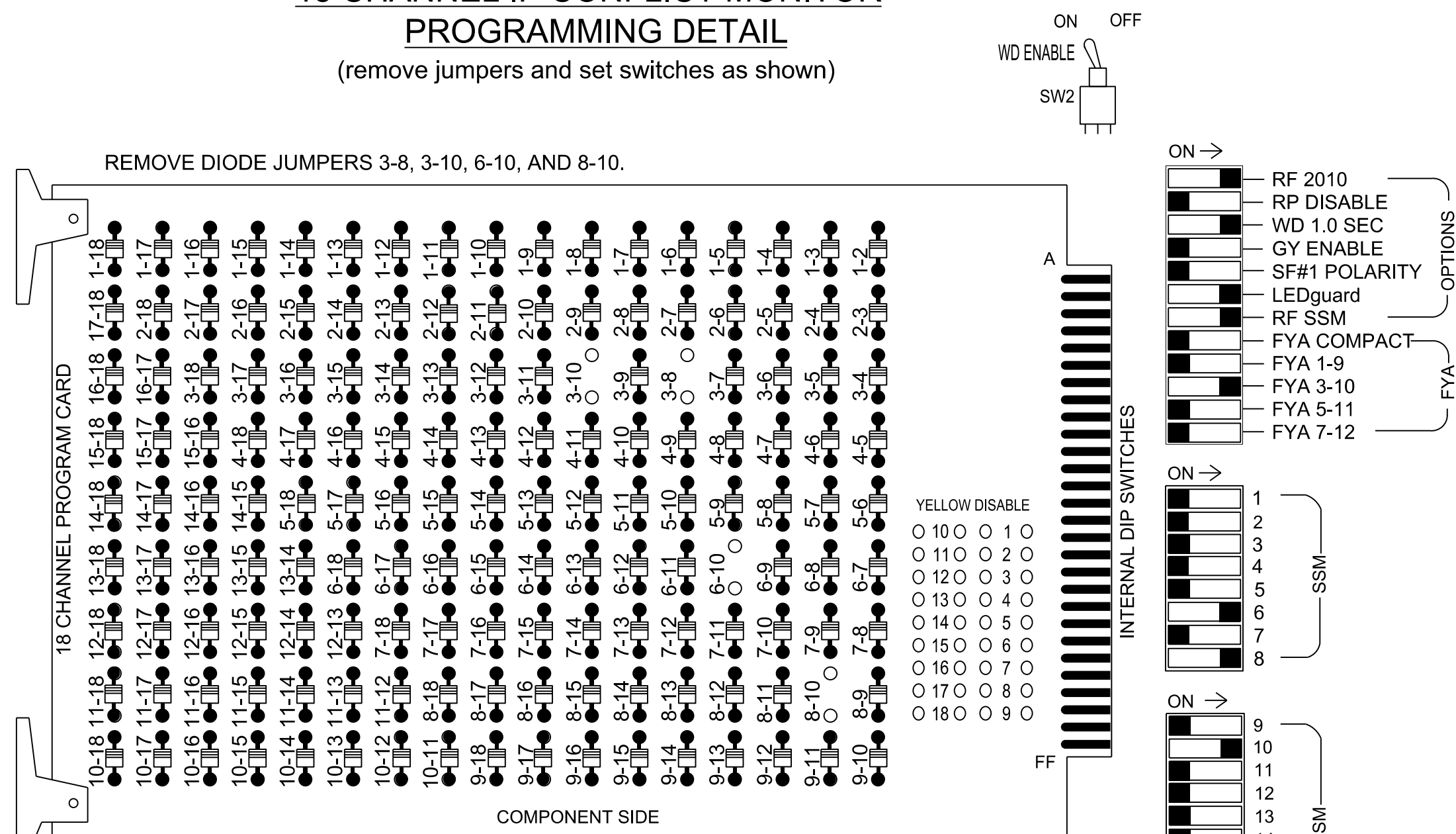


18 CHANNEL IP CONFLICT MONITOR

PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



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 vehicle load switches in the output file. The installer shall verify that signal heads flash in accordance with the signal plan.
2. Program phases 3 and 8 for Dual Entry.
3. Program controller to start up in phase 6 Green No Walk.
4. Program phases 6 for Advanced Warning.
5. Program phases 6 for 3.0 seconds Pre Clearance.
6. If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.
7. The cabinet and controller are part of the D03-14 Shallotte Signal System.

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2																		
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	ADVANCE BEACON	5	6	6 PED	7	8	8 PED	ADVANCE BEACON	OL1	OL2	OL5	OL3	OL4	OL6
SIGNAL HEAD NO.	NU	NU	NU	** 31,32	NU	NU	63,65	NU	61,62	NU	NU	81,82	NU	64,66	NU	** 31,32	NU	NU	NU	NU
RED	-	-	-	-	-	-	-	-	134	-	-	107	-	-	-	-	-	-	-	-
YELLOW	-	-	-	*	-	-	-	-	135	-	-	-	-	-	-	-	-	-	-	-
GREEN	-	-	-	-	-	-	-	-	136	-	-	-	-	-	-	-	-	-	-	-
RED ARROW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A124	-	-	-	-
YELLOW ARROW	-	-	-	-	-	-	-	-	-	-	-	108	-	-	-	A125	-	-	-	-
FLASHING YELLOW ARROW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A126	-	-	-	-
GREEN ARROW	-	-	-	118	-	-	-	-	-	-	-	109	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PED YELLOW	-	-	-	-	-	-	** 105	-	-	-	-	-	-	** 111	-	-	-	-	-	-
	-	-	-	-	-	*	-	-	-	-	-	-	*	-	-	-	-	-	-	-

NU = Not Used

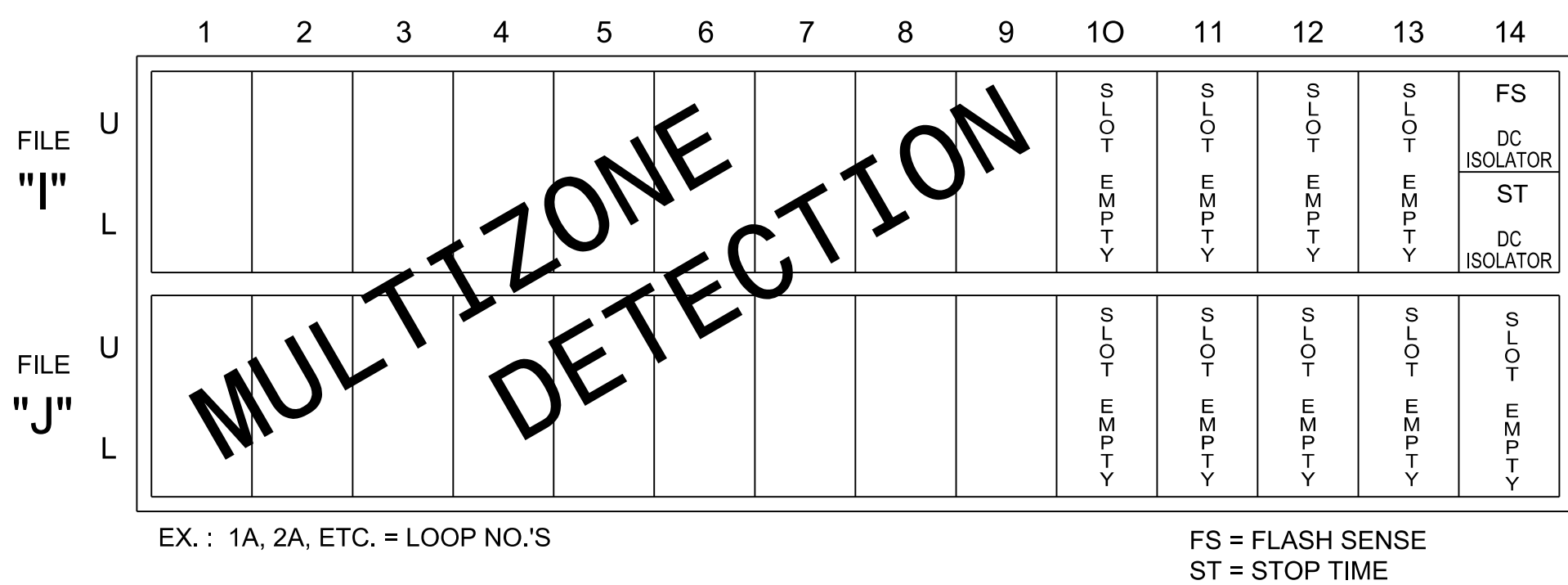
* Denotes install load resistor. See load resistor installation detail this sheet.

** Outputs have been reassigned for Advanced Beacons. See Sheet 3 for reassignment programming and wiring details.

★ See pictorial of head wiring in detail on this sheet.

INPUT FILE POSITION LAYOUT

(front view)



SPECIAL DETECTOR NOTE

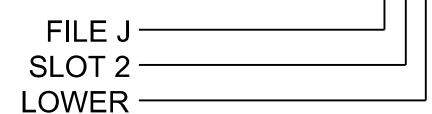
Install a multizone microwave detection system for vehicle detection. Perform installation according to manufacturer's directions and NCDOT engineer approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans.

Alternate Phasing Programming on Sheet 2 assumes default MAXTIME detector assignments and layouts, as shown in the Input File Chart below.

INPUT FILE CONNECTION & PROGRAMMING CHART

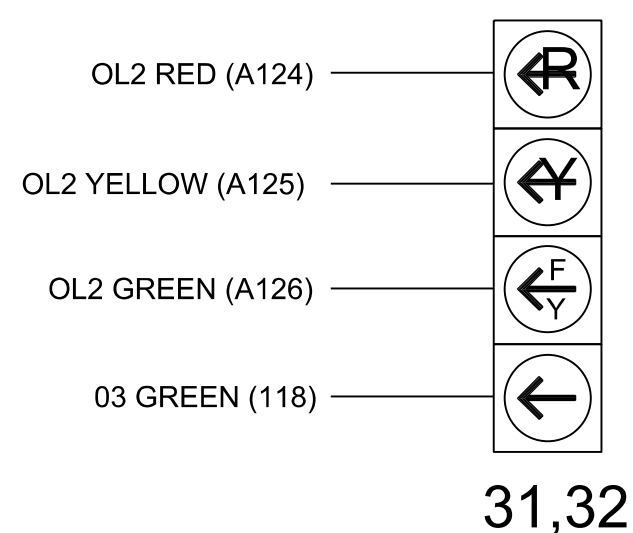
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
3A	TB4-5,6	I5U	58	20	7	3	15		X		X	

INPUT FILE POSITION LEGEND: J2L



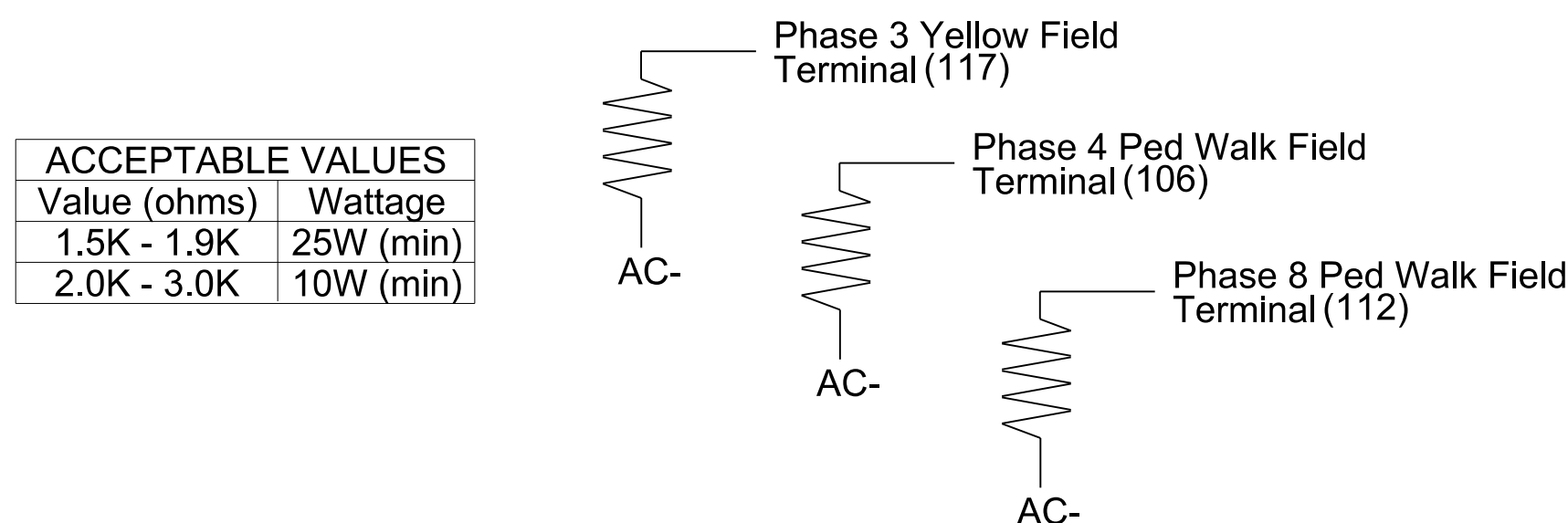
FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



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)

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 03-1249
DESIGNED: March 2025
SEALED: 3-31-2025
REVISED: N/A

US 17 (Ocean Highway W) at Frontage Road NW			
Division 3		Brunswick County	Shallotte
PLAN DATE: March 2025		REVIEWED BY: GG Murr, Jr.	
PREPARED BY: JT Rowe		REVIEWED BY:	
REVISIONS		INIT.	DATE

DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

SEAL

NORTH CAROLINA
PROFESSIONAL
SEAL
008453
ENGINEER
JOHN T. ROWE, JR.

Signed By John T. Rowe, Jr 4-1-2025
DATE
OFFICIALS' NAME
SIC, INVENTORY NO. 03-1249