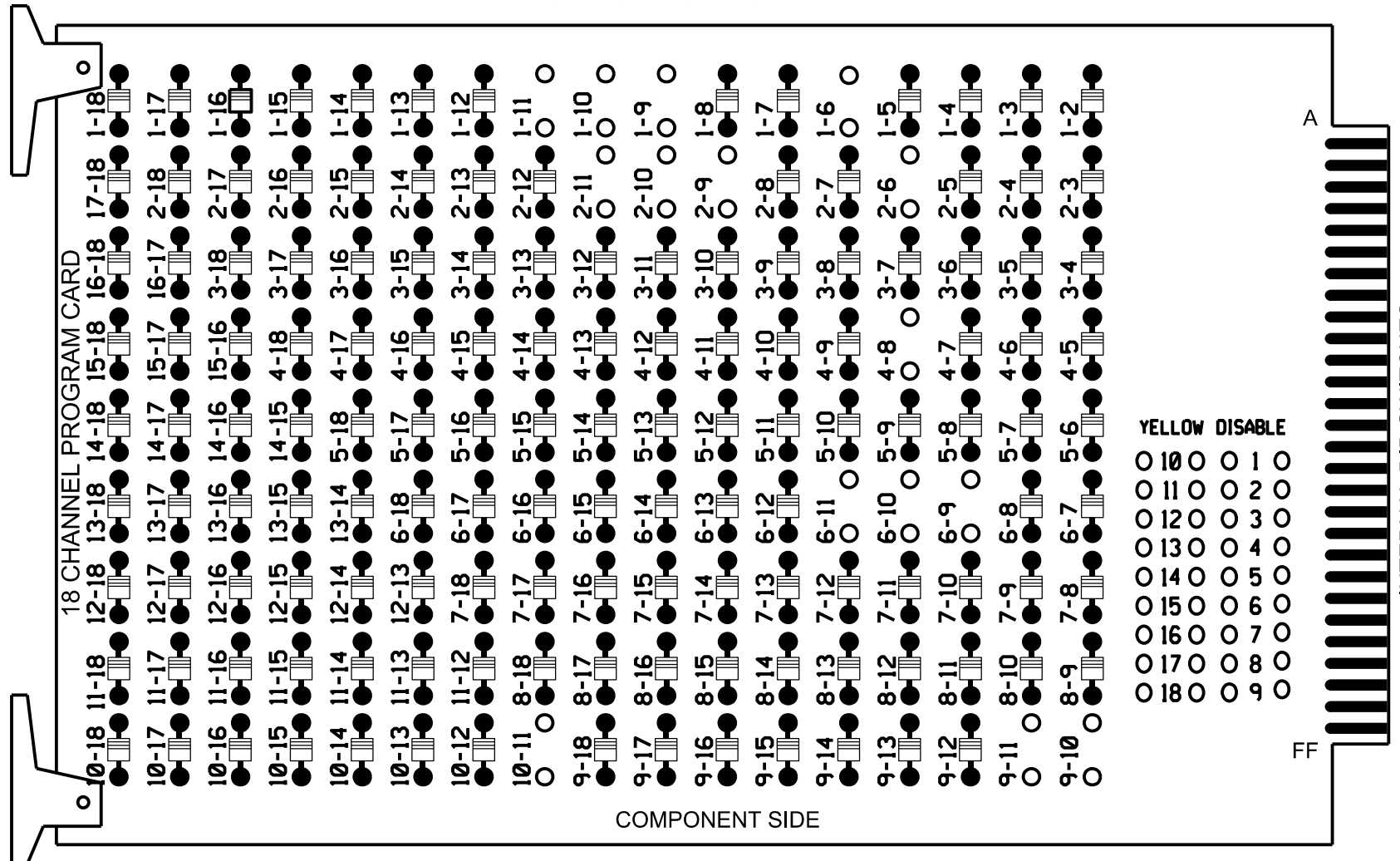


18 CHANNEL IP CONFLICT MONITOR
PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

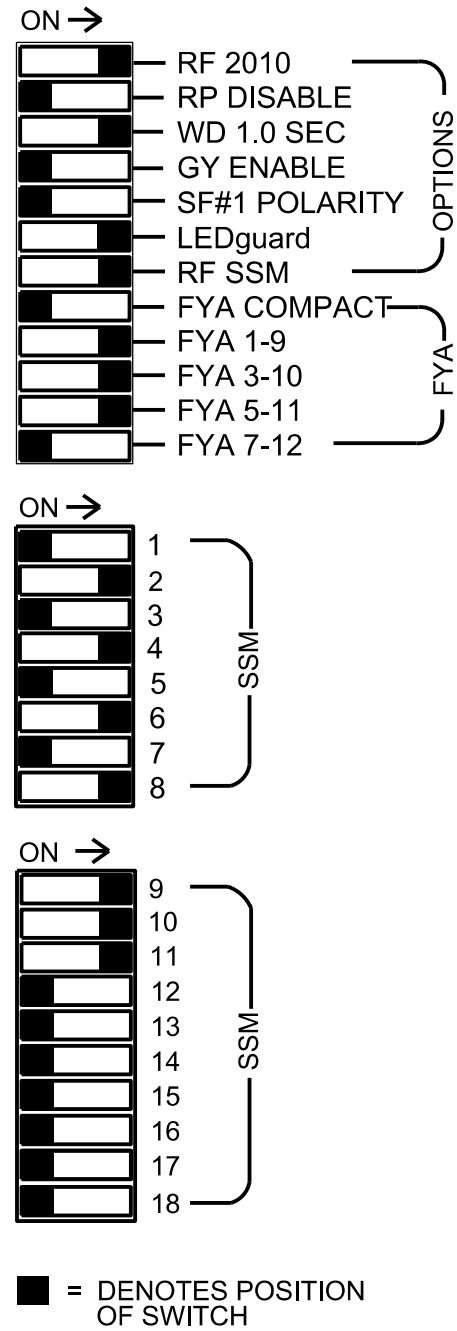
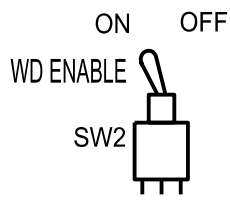
REMOVE DIODE JUMPERS 1-6, 1-9, 1-10, 1-11, 2-6, 2-9, 2-10, 2-11, 4-8, 6-9,
6-10, 6-11, 9-10, 9-11, and 10-11.



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 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.
- 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 264A/US 13 Signal 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, S5, S8, S11,
AUX S1, AUX S2, AUX S4
Phases Used.....1, 2, 4, 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.	11	22,23	NU	NU	41,42	NU	NU	61,62	NU	NU	81,82	NU	11	63	NU	21	NU	NU
RED	.	128	.	.	101	.	.	134	.	.	107	.	.	A124	.	.	.	.
YELLOW	*	129	.	.	102	.	.	135	.	.	108	.	.	.	.	.	.	.
GREEN	.	130	.	.	103	.	.	136	.	.	109	.	.	.	.	.	.	.
RED ARROW	.	.	.	.	.	.	.	.	.	.	.	.	A121	.	.	A114	.	.
YELLOW ARROW	.	.	.	.	.	.	.	.	.	.	.	.	A122	A125	.	A115	.	.
FLASHING YELLOW ARROW	.	.	.	.	.	.	.	.	.	.	.	.	A123	A126	.	A116	.	.
GREEN ARROW	127	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

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	U	1	2	3	4	5	6	7	8	9	10	11	12	13	14
"I"	U	Ø1 1A	S -O- T	S -O- T	S -O- T	S -O- T	S -O- T	S -O- T	S -O- T	S -O- T	S -O- T	S -O- T	S -O- T	S -O- T	FS DC ISOLATOR
	L	NOT USED	E -O- T	E -O- T	E -O- T	E -O- T	E -O- T	E -O- T	E -O- T	E -O- T	E -O- T	E -O- T	E -O- T	E -O- T	ST DC ISOLATOR
FILE	U	S -O- T	S -O- T	S -O- T	S -O- T	S -O- T	S -O- T	S -O- T	S -O- T	S -O- T	S -O- T	S -O- T	S -O- T	S -O- T	S -O- T
"J"	L	E -O- T	E -O- T	E -O- T	E -O- T	E -O- T	E -O- T	E -O- T	E -O- T	E -O- T	E -O- T	E -O- T	E -O- T	E -O- T	E -O- T

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

Note: Remove jumper from I1-W to J4-W if present.

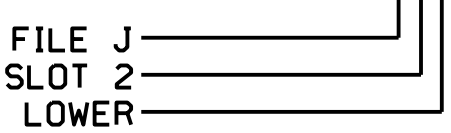
FS = FLASH SENSE
ST = STOP TIME

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
1A	TB2-1,2	I1U	56	18	1	1	15		X		X	
				28	2	6			X		X	

* See detector programming detail for alternate phasing on sheet 2.

INPUT FILE POSITION LEGEND: J2L



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.

For Detection Zone 1A, the equipment placement is typical for a NCDOT installation.

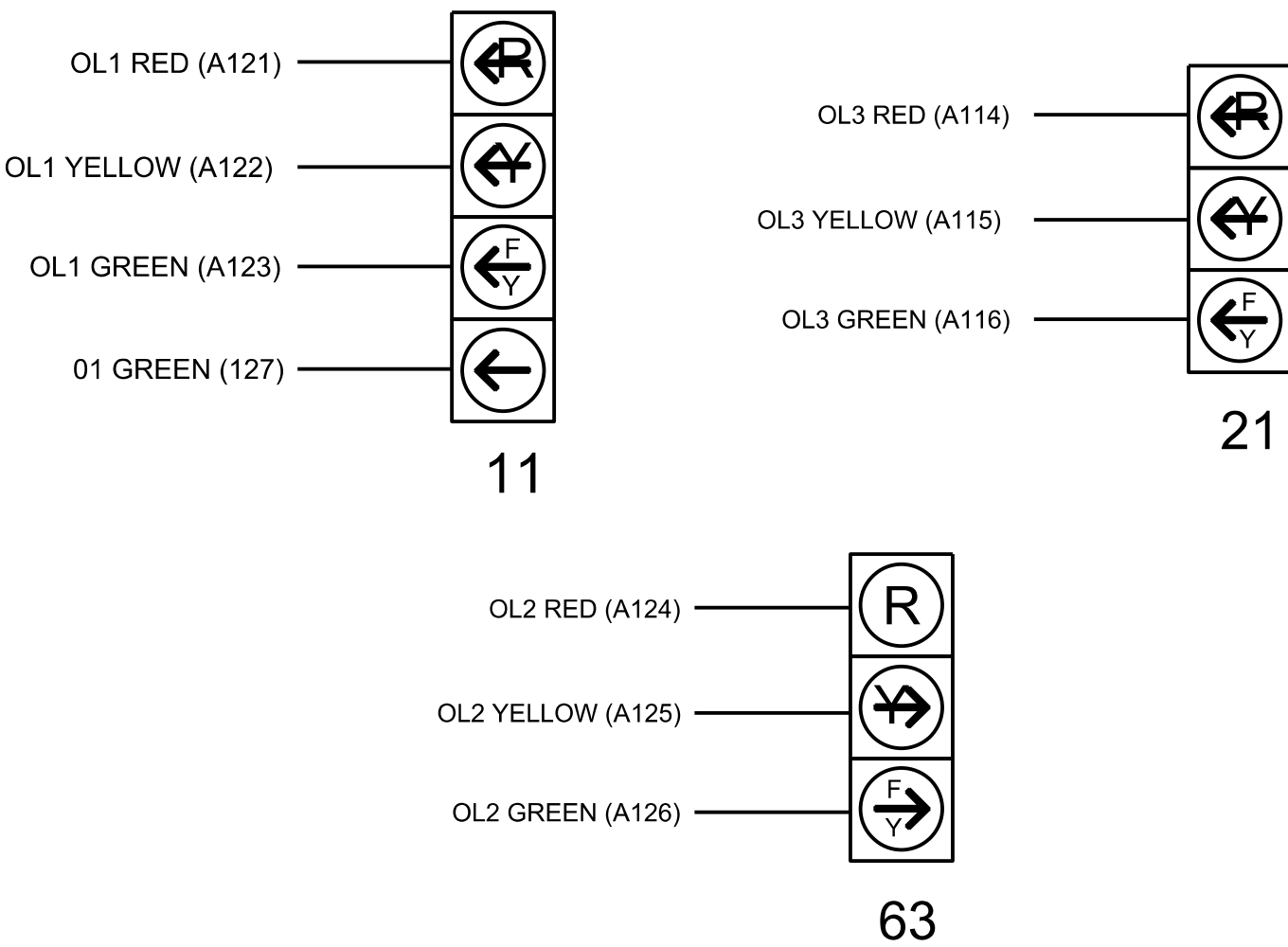
LOAD RESISTOR
INSTALLATION DETAIL

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: 02-0907
DESIGNED: July 2025
SEALED: 07/15/2025
REVISED: N/A

Electrical Detail - Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR: Prepared for the Offices of: 750 N. Greenfield Pkwy, Corner, NC 27529	US 13/US 264 Alternate at SR 1128 (Davenport Farm Road) / SR 1206 (Bell Arthur Road)		SEAL DocuSigned by: Steven G. Haynie 7/15/2025 SIGNATURE DATE SIG. INVENTORY NO. 02-0907
	PLAN DATE: July 2025	REVIEWED BY: S.G. Haynie	
	PREPARED BY: E.N. Rodriguez	REVIEWED BY:	
	REVISIONS	INIT. DATE	

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