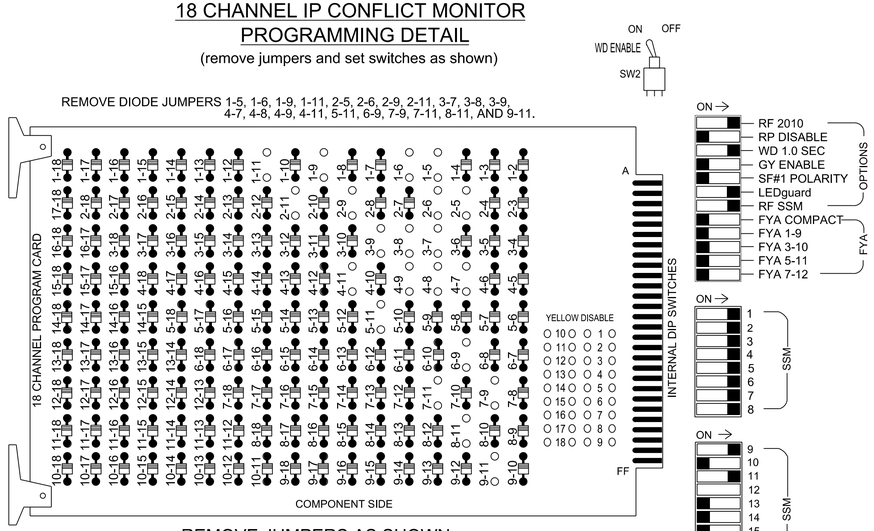
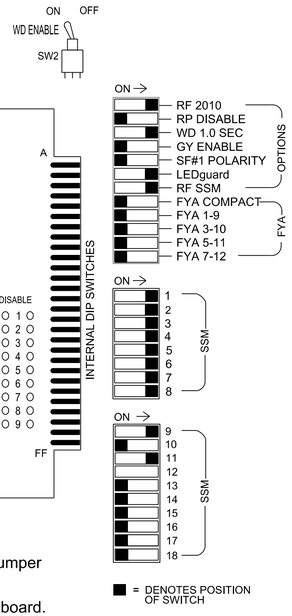
Docusign Envelope ID: CAB76B9D-839C-4E85-823A-B322CCC359A2

18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)





= DENOTES POSITION OF SWITCH

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 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 detectors used at this location.
4. The cabinet and controller are part of the D02-02_Cape Carteret Signal System.

PROJECT REFERENCE NO.	SHEET NO.
R-5858	Sig. 2.1

SIGNAL HEAD HOOK-UP CHART

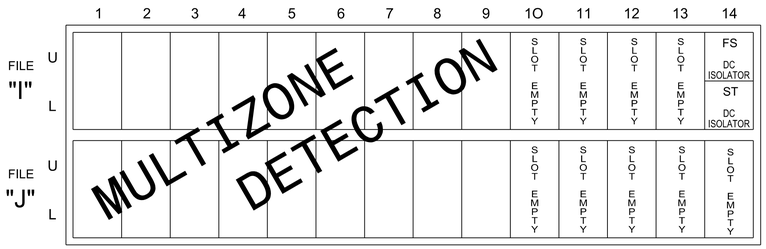
LOAD SWITCH NO.	S1		S2	S3	S4		S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
CMU CHANNEL NO.	1		2	13	3		4	14	5	6	15	7	8	16	9	10	17	11	12	18
PHASE	1		2	2 PED	3		4	4 PED	5	6	6 PED	7	8	8 PED	OL1	OL2	OL5	OL3	OL4	OL6
SIGNAL HEAD NO.	11,12	82	21,22	NU	31,32	22	41,42	NU	51,52	61,62	NU	71,72	81,82	NU	63★	NU	NU	43★	NU	NU
RED	·		128	·	·	·	101	·		134	·		107	·	A121	·	·	A114	·	·
YELLOW	·	·	129	·	·	·	102	·		135	·		108	·	·	·	·	·	·	·
GREEN	·	·	130	·	·	·	103	·	·	130	·	·	109	·	·	·	·	·	·	·
RED ARROW	125		·	·	116	·	·	·	131	·	·	122	·	·	·	·	·	·	·	·
YELLOW ARROW	126	126	·	·	117	117	·	·	132	·	·	123	·	·	A122	·	·	A115	·	·
FLASHING YELLOW ARROW	·	·	·	·	·	·	·	·	·	·	·	·	·	·	A123	·	·	A116	·	·
GREEN ARROW	127	127	·	·	118	118	·	·	133	·	·	124	·	·	·	·	·	·	·	·

NU = Not Used

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

INPUT FILE POSITION LAYOUT

(front view)



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

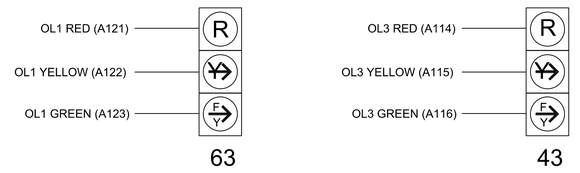
FS = FLASH SENSE
ST = STOP TIME

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)



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, S4, S5, S7, S8, S10, S11, AUX S1, AUX S4
Phases Used.....1, 2, 3, 4, 5, 6, 7, 8
Overlap "1".....*
Overlap "2".....NOT USED
Overlap "3".....*
Overlap "4".....NOT USED
*See overlap programming detail on sheet 2

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 02-0247T1
DESIGNED: April 2026
SEALED: 04-08-2026
REVISED: N/A

GFT Infrastructure, Inc.
One Glenwood Avenue, Suite 900
Raleigh, NC 27603
919-420-7660
NC Lic. No. F-0270

Electrical Detail - Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Electrical and Programming Details For:

Prepared in the Offices of:

Traffic Engineering Branch, Traffic Engineering & Safety Systems Section, Transportation Mobility and Safety Division, NC Department of Transportation
750 N.Greenfield Pkwy.Garner,NC 27529

NC 24 (W.B. McClean Drive)
at
NC 58

Division 2 | Carteret County | Cape Carteret

PLAN DATE:	April 2026	REVIEWED BY:	D. Hartland
PREPARED BY:	JT Rowe	REVIEWED BY:	

REVISIONS	INIT.	DATE

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

Docusigned by: John T. Rowe, Jr 4/8/2026
SIGNATURE DATE

SIG. INVENTORY NO. 02-0247T1

$$$$SYSTIME$$$$
$$$$SESSION$$$$
$$$$USERNAME$$$$