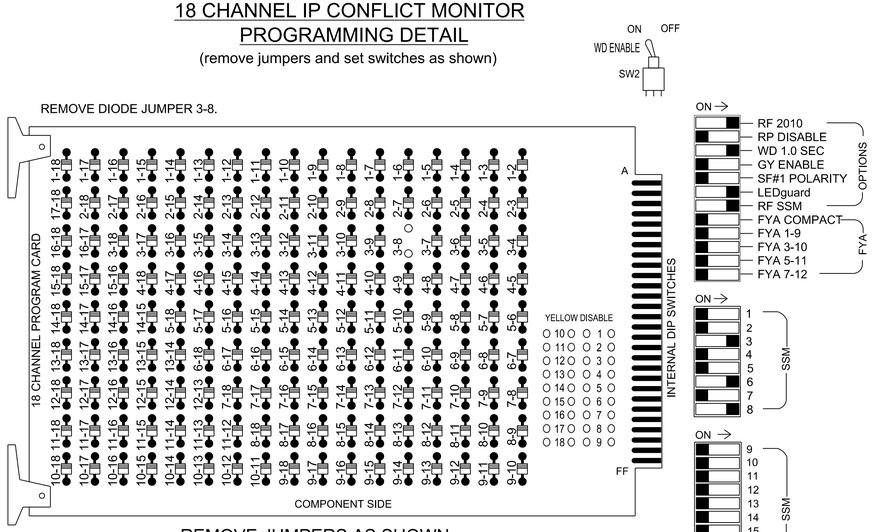
PROJECT REFERENCE NO.	SHEET NO.
B-6051/U-6143	Sig.16.1

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 unused 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. 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.....S4, S8, S11
Phases Used.....3, 6, 8
Overlap "1".....NOT USED
Overlap "2".....NOT USED
Overlap "3".....NOT USED
Overlap "4".....NOT USED

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.	NU	NU	NU	31,32	NU	NU	NU	61	62	NU	NU	81,82	NU	NU	NU	NU	NU	NU	NU
RED	·	·	·	·	·	·	·	134	134	·	·	107	·	·	·	·	·	·	·
YELLOW	·	·	·	·	·	·	·	135	135	·	·	·	·	·	·	·	·	·	·
GREEN	·	·	·	·	·	·	·	·	136	·	·	·	·	·	·	·	·	·	·
RED ARROW	·	·	·	116	·	·	·	·	·	·	·	·	·	·	·	·	·	·	·
YELLOW ARROW	·	·	·	117	·	·	·	·	·	·	·	108	·	·	·	·	·	·	·
GREEN ARROW	·	·	·	118	·	·	·	136	·	·	·	109	·	·	·	·	·	·	·

NU = Not Used

INPUT FILE POSITION LAYOUT

(front view)

		1	2	3	4	5	6	7	8	9	1O	11	12	13	14
FILE "I"	U	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	FS DC ISOLATOR
	L														ST DC ISOLATOR
FILE "J"	U	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY
	L														

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

FS = FLASH SENSE
ST = STOP TIME

SPECIAL DETECTOR NOTE

Install a video detection system for vehicle detection for zones 3A, 6A, 6B, 6C, 6D, and 8A. Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans.

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 10-2479T2
DESIGNED: August 2025
SEALED: 8/1/2025
REVISED: N/A

Signal Upgrade - Temporary Design 2 - TMP Phase IV Step 1
Electrical Detail

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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Electrical and Programming Details For:

Prepared for the Offices of:

Transportation Mobility and Safety Division
State of North Carolina
Department of Transportation
Traffic Engineering Branch
Signals & Signal Management Section

750 N. Greenfield Pkwy, Garner, NC 27529

US 29-74 (Wilkinson Blvd)
at
SR 1600 (Moores Chapel Loop)

Division 10 | Mecklenburg County | Charlotte

PLAN DATE: August 2025 | REVIEWED BY: CB Holden
PREPARED BY: WP Erickson-Jones | REVIEWED BY: DT Sears

REVISIONS	INIT.	DATE
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·	·	·

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 044558 ENGINEER DAVID T. SEARS

DocuSigned by: David T Sears 069183F28E5741E...
8/1/2025
DATE

SIG. INVENTORY NO. 10-2479T2

8/1/2025
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