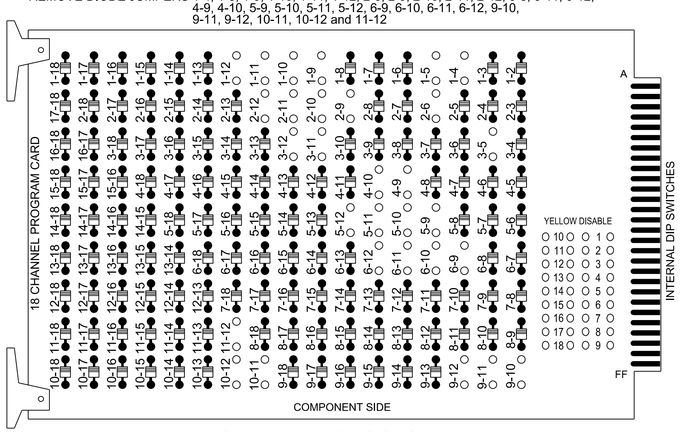
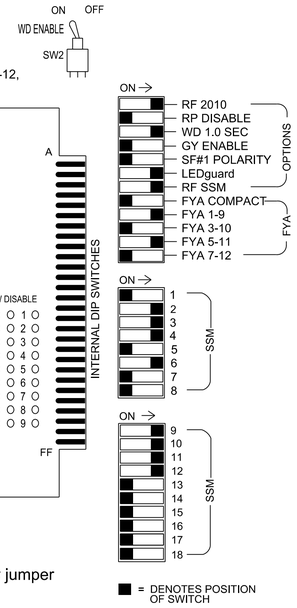
PROJECT REFERENCE NO.	SHEET NO.
R-2577A	Sig. 34.1

18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-4, 1-5, 1-9, 1-10, 1-11, 1-12, 2-6, 2-9, 2-10, 2-11, 2-12, 3-5, 3-11, 3-12, 4-9, 4-10, 5-9, 5-10, 5-11, 5-12, 6-9, 6-10, 6-11, 6-12, 9-10, 9-11, 9-12, 10-11, 10-12 and 11-12





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. Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.

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 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.

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,AUX S1,AUX S2 AUX S4, AUX S5
Phases Used.....2, 3, 4, 6, 9
Overlap "1".....*
Overlap "2".....*
Overlap "3".....*
Overlap "4".....*
Overlap "7".....*
Overlap "8".....*

*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	OL7	2	2 PED	3		4	4 PED	OL8	6	6 PED	7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	11★	21,22	NU	22	31,32	41,42	NU	51★	61,62	NU	NU	NU	NU	11★	63,64	NU	51★	23,24	NU
RED	·	128	·	·	·	·	·	·	134	·	·	·	·	·	A124	·	·	A101	·
YELLOW	*	129	·	·	·	·	·	*	135	·	·	·	·	·	A125	·	·	A102	·
GREEN	·	130	·	·	·	·	·	·	136	·	·	·	·	·	A126	·	·	A103	·
RED ARROW	·	·	·	·	116	101	·	·	·	·	·	·	·	A121	·	·	A114	·	·
YELLOW ARROW	·	·	·	117	117	102	·	·	·	·	·	·	·	A122	·	·	A115	·	·
FLASHING YELLOW ARROW	127	·	·	·	·	·	·	133	·	·	·	·	·	A123	·	·	A116	·	·
GREEN ARROW	·	·	·	118	118	103	·	·	·	·	·	·	·	·	·	·	·	·	·

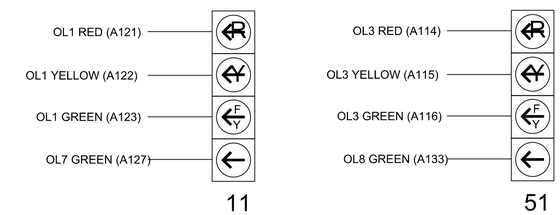
NU = Not Used

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

★ See pictorial of head wiring in detail this sheet.

FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



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														

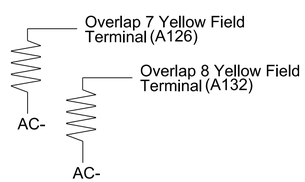
EX. : 1A, 2A, ETC. = LOOP NO.'S

FS = FLASH SENSE
ST = STOP TIME

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)



SPECIAL DETECTOR NOTE

Install a video detection system for vehicle detection for zones. 2A, 2B, 3A, 3B, 3C, 4A, 6A and 6B. 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: 09-1100T1
DESIGNED: February 2024
SEALED: February 12, 2024
REVISED:

Signal Upgrade - Temporary Design 1
(TMP Phase I Step 1) Electrical Detail - Sheet 1 of 2

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
Traffic Engineering & Signals Management Section
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
750 N. Greenfield Pkwy, Garner, NC 27529

US 158 (Reidsville Rd.)
at
SR 2014 (Vance Rd.)/
SR 1965 (Belews Creek Rd.)

Division 9 | Forsyth County | Walkertown

PLAN DATE:	February 2024	REVIEWED BY:	DT Sears
PREPARED BY:	WP Erickson-Jones	REVIEWED BY:	

REVISIONS	INIT.	DATE

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 056142 ENGINEER W. PORTER JONES

DocuSigned by: Porter Jones 2/12/2024
DATE

SIG. INVENTORY NO. 09-1100T1

2/12/2024
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wpjones