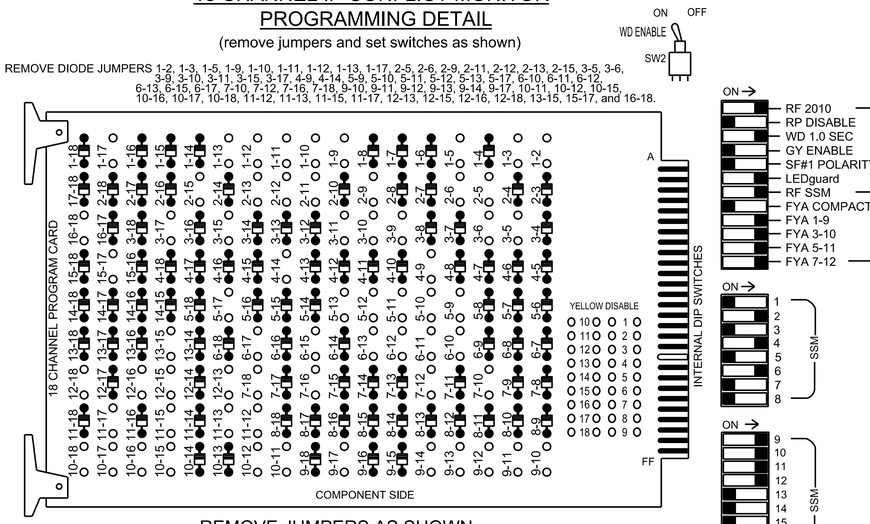
Docusign Envelope ID: DAD087B5-1238-45EC-98DE-79E1BC94A667

PROJECT REFERENCE NO.	SHEET NO.
U-5875	Sig. 6.2

18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-2, 1-3, 1-5, 1-9, 1-10, 1-11, 1-12, 1-13, 1-17, 2-5, 2-6, 2-9, 2-11, 2-12, 2-13, 2-15, 3-5, 3-6, 3-9, 3-10, 3-11, 3-15, 3-17, 4-9, 4-14, 5-9, 5-10, 5-11, 5-12, 5-13, 5-17, 6-10, 6-11, 6-12, 6-13, 6-15, 6-17, 7-10, 7-12, 7-16, 7-18, 9-10, 9-11, 9-12, 9-13, 9-14, 9-17, 10-11, 10-12, 10-15, 10-16, 10-17, 10-18, 11-12, 11-13, 11-15, 11-17, 12-13, 12-15, 12-16, 12-18, 13-15, 15-17, and 16-18.



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.

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 Plans.
2. Program controller to start up in phase 2 Green and 6 Green.
3. The cabinet and controller are part of the Greenville Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070LX
CABINET.....332 W/AUX
SOFTWARE.....ECONOLITE ASC/3-2070
CABINET MOUNT.....BASE
OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
LOAD SWITCHES USED....S1,S2,S3,S4,S5,S6, S7,S8,S9,S10,S12,AUX S1,AUX S2 AUX S3,AUX S4,AUX S5,AUX S6
PHASES USED.....1,2,2PED,3,3PED, 4,4PED,5,6,6PED
OVERLAP "A".....*
OVERLAP "B".....*
OVERLAP "C".....*
OVERLAP "D".....*
OVERLAP "E".....*
OVERLAP "F".....*
OVERLAP "G".....*
OVERLAP "H".....*
OVERLAP "I".....*

* 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	OLG	2	2 PED	OLH	4		4 PED	5	6	6 PED	OLI	8	3 PED	OLA	OLB	OLE	OLC	OLD	OLF	
SIGNAL HEAD NO.	43★	21,22	P21, P22	35★	41	42	P41, P42	51★	61,62	P61, P62	23★	NU	P31, P32	43★	35★	11,12	51★	23★	31,32	33,34
RED		128			101	101			134					A121	A124			A101		A104
YELLOW	*	129		*	102	102		*	135		*									A105
GREEN		130			103	103			136											A106
RED ARROW																A111	A114		A104	
YELLOW ARROW														A122	A125	A112	A115	A102	A105	
FLASHING YELLOW ARROW														A123	A126		A116	A103		
GREEN ARROW	127			118	103			133			124					A113			A106	
✋			113				104			119			110							
🚶			115				106			121			112							

NU = Not Used

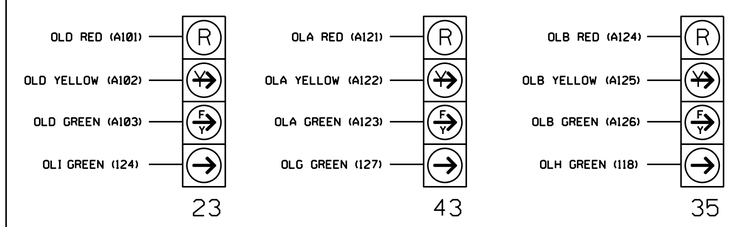
* Denotes install load resistor. See load resistor installation detail this sheet.

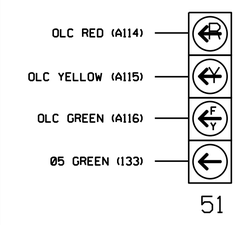
★ See pictorial of head wiring in detail this sheet.

NOTE: Output functions for load switches S1, S4, S10, and S12 have been reassigned. See sheet 2 for details.

FYA SIGNAL WIRING DETAIL

(wire signal head as shown)





INPUT FILE POSITION LAYOUT

(front view)

		1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE "I"	U	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	WIRED INPUT ⊗	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	Ø2PED DC ISOLATOR	Ø6PED DC ISOLATOR	FS DC ISOLATOR
	L												Ø4PED DC ISOLATOR	Ø3PED DC ISOLATOR	ST DC ISOLATOR
FILE "J"	U	Ø5 5A	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	NOT USED													

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

FS = FLASH SENSE
ST = STOP TIME

⊗ Wired Input - Do not populate slot with detector card

INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND TIME	DELAY TIME	ADDED INITIAL	DETECTOR TYPE
5A[1]	TB3-1,2	J1U	55	5★	5	YES		15	___	N
	-	I4U	47	22★	2	YES		-	___	N
PED PUSH BUTTONS										
P21,P22	TB8-4,6	I12U	67	PED 2	2 PED					
P31,P32	TB8-8,9	I13L	70	PED 8	3 PED					
P41,P42	TB8-5,6	I12L	69	PED 4	4 PED					
P61,P62	TB8-7,9	I13U	68	PED 6	6 PED					

NOTE:
INSTALL DC ISOLATORS IN INPUT FILE SLOTS I12 AND I13.

[1]Add jumper from J1-W to I4-W, on rear of input file.

★ See Input Page Assignment programming details for alternate phasing on sheet 3.

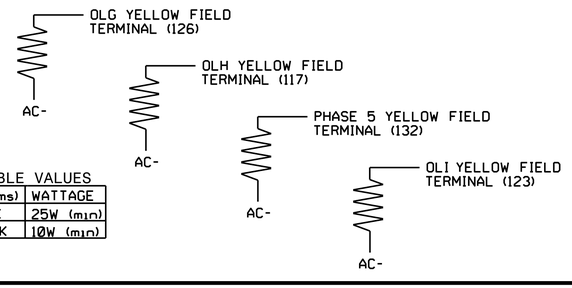
INPUT FILE POSITION LEGEND: J2L
FILE J
SLOT 2
LOWER

COUNTDOWN PEDESTRIAN SIGNAL OPERATION

Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

LOAD RESISTOR INSTALLATION DETAIL

(install resistor as shown)



ACCEPTABLE VALUES

VALUE (ohms)	WATTAGE
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)

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 5A, the equipment placement and slots reserved for wired inputs are typical for a NCDOT installation.

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 02-0500
DESIGNED: July 2025
SEALED: 07/22/2025
REVISED: N/A

RS&H
NC FIRM LICENSE No: F-0493
8521 SIX FORKS ROAD, SUITE 400
RALEIGH, NC 27615
(919) 926-4100

Signal Upgrade - Final
Electrical Detail - Sheet 1 of 4

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR:

SR 1467 (Stantonsburg Road) at SR 1203 (Allen Road)

Division 02 Pitt County Greenville

PLAN DATE: July 2025 REVIEWED BY: S.G. Haynie
PREPARED BY: A.M. Kollar REVIEWED BY:

REVISIONS	INIT.	DATE

Prepared for the Offices of: Transportation Mobility and Safety Division, Traffic Engineering & Safety Systems Branch, Signal Management Section, DEPT. OF TRANSPORTATION, STATE OF NORTH CAROLINA
750 N.Greenfield Pkwy,Garner,NC 27529

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 029531 ENGINEER STEVEN G. HAYNIE
DocuSigned by: Steven G. Haynie 7/22/2025
SIGNATURE DATE
SIG. INVENTORY NO. 02-0500

7/22/2025
X:\#41030063003_U-5875 Signals & Comms (SEP) TGM1\Design\Traffic\Signals\Design\Plan Sheets\U-5875 Signal Sheets\02D500_sm_ele_20221OXx.dgn
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