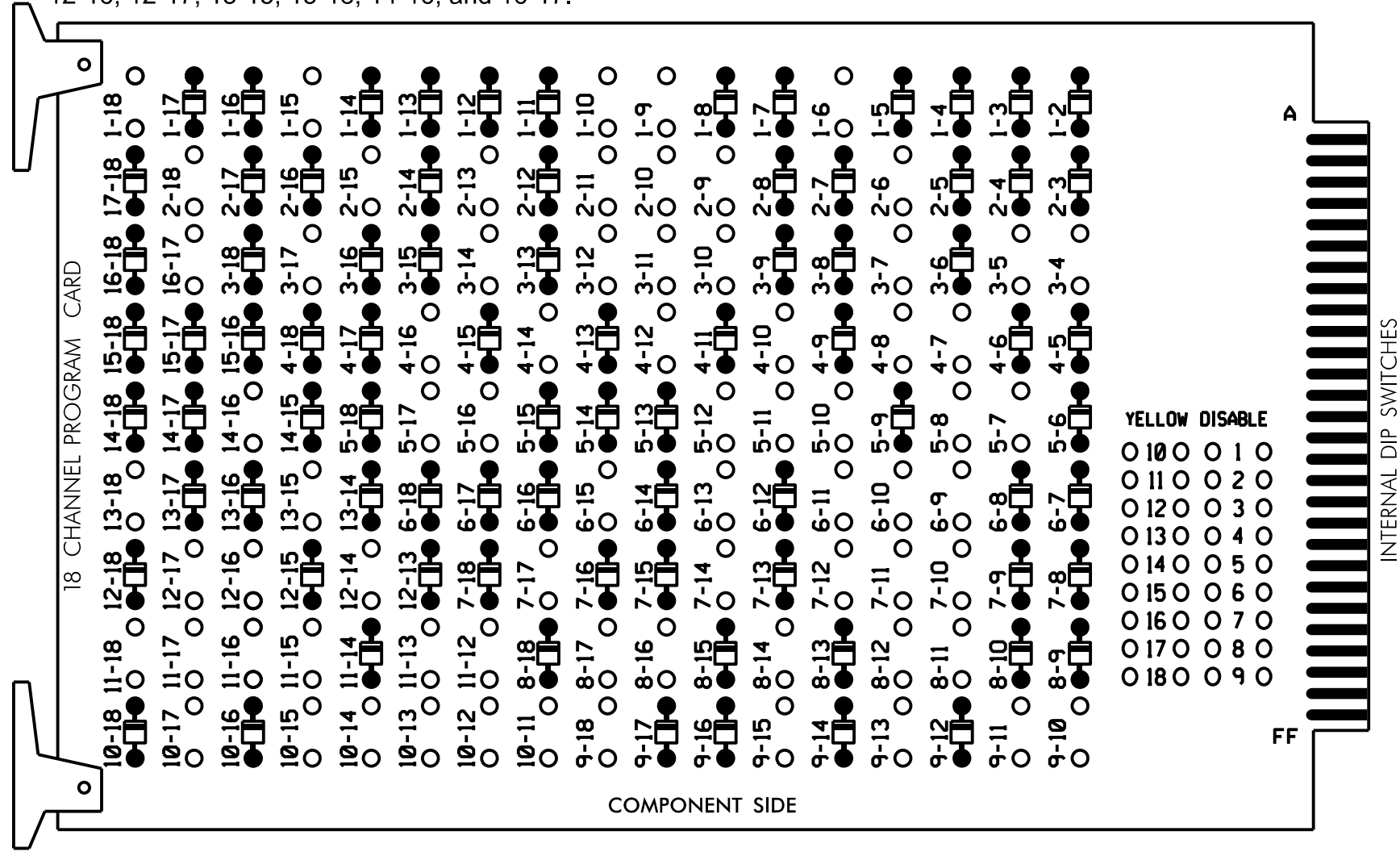


18 CHANNEL IP CONFLICT MONITOR
PROGRAMMING DETAIL

(remove jumpers and set switches as shown)
REMOVE DIODE JUMPERS 1-6, 1-9, 1-10, 1-15, 1-18, 2-6, 2-9, 2-10, 2-11, 2-13, 2-15, 2-18, 3-4, 3-5, 3-7, 3-10, 3-11, 3-12, 3-14, 3-17, 4-7, 4-8, 4-10, 4-12, 4-14, 4-16, 5-7, 5-8, 5-10, 5-11, 5-12, 5-16, 5-17, 6-9, 6-10, 6-11, 6-13, 6-15, 7-10, 7-11, 7-12, 7-14, 7-17, 8-11, 8-12, 8-14, 8-16, 8-17, 9-10, 9-11, 9-13, 9-15, 9-18, 10-11, 10-12, 10-13, 10-14, 10-15, 10-17, 11-12, 11-13, 11-15, 11-16, 11-17, 11-18, 12-14, 12-16, 12-17, 13-15, 13-18, 14-16, and 16-17.



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.

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 Plans.
- Program controller to start up in phase 2 Green and 6 Green.
- 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,S11,S12,AUX S1,AUX S2,
AUX S3,AUX S4,AUX S5,AUX S6
PHASES USED.....1,2,2PED,3,4,4PED,5,6,
6PED,7,8,8PED

OVERLAP "A".....*
OVERLAP "B".....*
OVERLAP "C".....*
OVERLAP "D".....*
OVERLAP "E".....*
OVERLAP "F".....*
OVERLAP "G".....*
OVERLAP "H".....*

* 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	OLG	4	4 PED	OLH	6	6 PED	7	8	8 PED	OLA	OLB	OLE	OLC	OLD	OLF
SIGNAL HEAD NO.	11,12	21, 22,24	P21, P22	63	41,42, 43	P41, P42	23	61, 62,64	P61, P62	71,72	81, 82,83	P81, P82	11,12	63	31, 32,33	23	71,72	51, 52,53
RED		128			101			134			107			A124		A114		
YELLOW	*	129		*	102		*	135		*	108							
GREEN		130			103			136			109							
RED ARROW														A121		A111		A101 A104
YELLOW ARROW														A122	A125	A112	A115	A102 A105
FLASHING YELLOW ARROW														A123	A126		A116	A103
GREEN ARROW	127			118			133			124						A113		A106
Hand icon			113			104			119			110						
Walking person icon			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 S4 and S7 have been reassigned. See sheet 2 for details.

INPUT FILE POSITION LAYOUT

(front view)

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

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

⊗ Wired Input - Do not populate slot with detector card

FS = FLASH SENSE
ST = STOP TIME

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
1A	TB2-1,2	I1U	56	1 ★	1	YES		15		N
	-	J4U	48	26 ★	6	YES				N
7A	TB5-5,6	J5U	57	7 ★	7	YES		15		N
	-	I8U	49	24 ★	4	YES		3		N
PED PUSH BUTTONS										
P21,P22	TB8-4,6	I12U	67	PED 2	2 PED					
P41,P42	TB8-5,6	I12L	69	PED 4	4 PED					
P61,P62	TB8-7,9	I13U	68	PED 6	6 PED					
P81,P82	TB8-8,9	I13L	70	PED 8	8 PED					

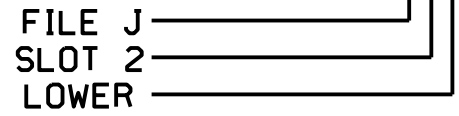
NOTE:
INSTALL DC ISOLATORS
IN INPUT FILE SLOTS
112 AND 113.

1 Add jumper from I1-W to J4-W, on rear of input file.

2 Add jumper from J5-W to I8-W, on rear of input file.

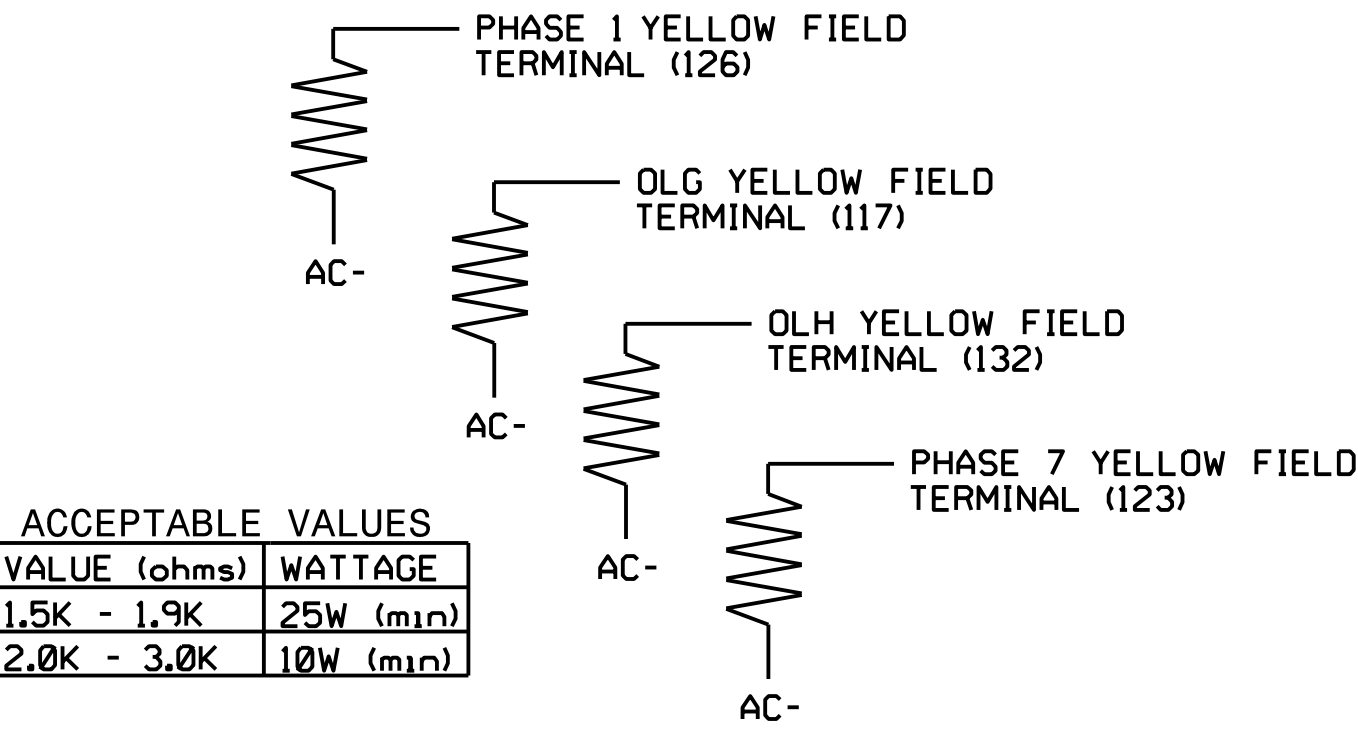
★ See Input Page Assignment programming details for alternate phasing on sheet 3.

INPUT FILE POSITION LEGEND: J2L



LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)



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 Zones 1A and 7A, the equipment placement and slots reserved for wired inputs are typical for a NCDOT installation.

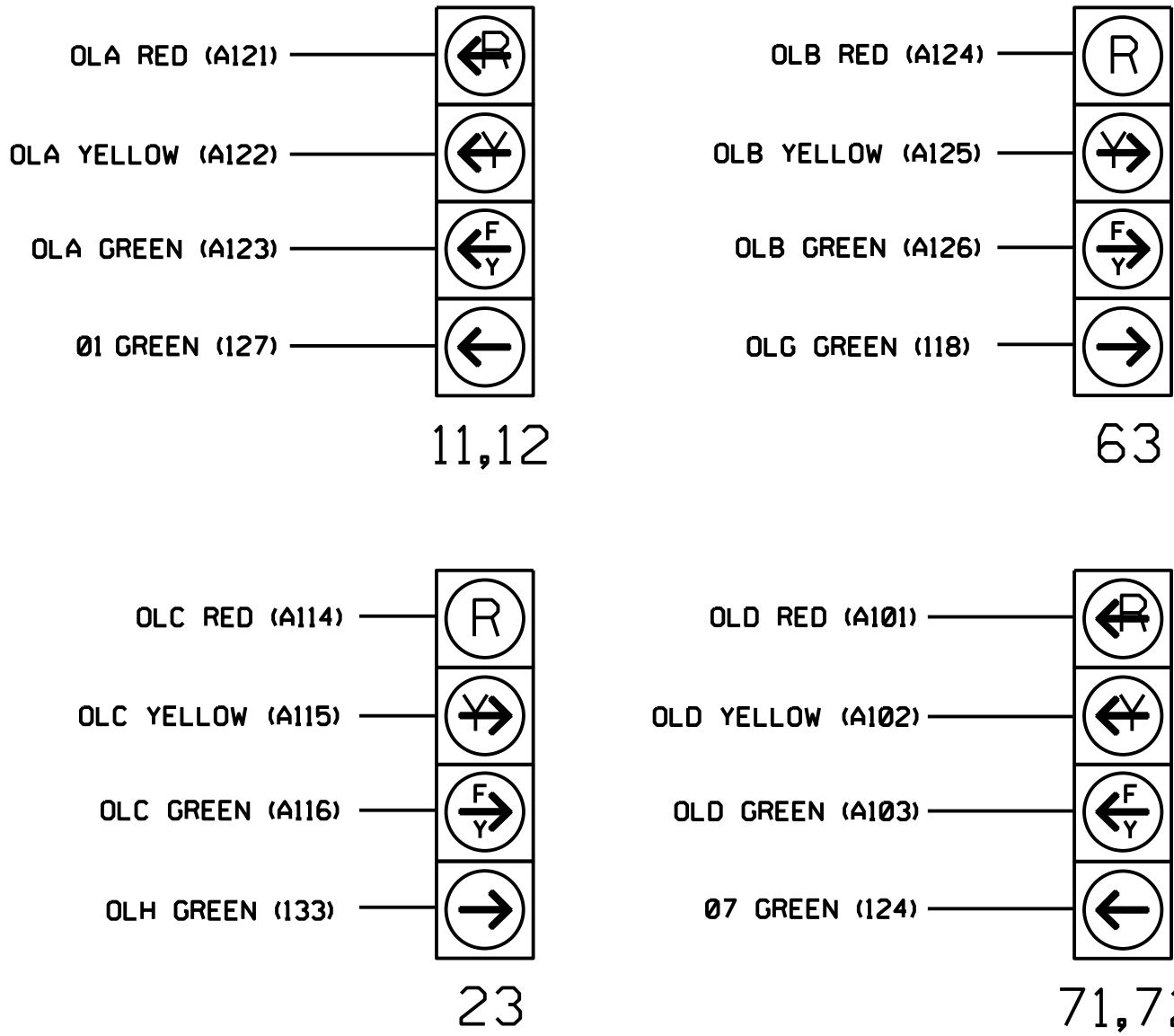
THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 02-0029
DESIGNED: July 2025
SEALED: 07/15/2025
REVISED: N/A

RS&H

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

FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



Signal Upgrade - Final
Electrical Detail - Sheet 1 of 5

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR: Prepared for the Offices of: SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION Signal Management Section	US 13 (Dickinson Avenue) / US 264 Alt at SR 1203 (Allen Road)/US 264 Alt (Greenville Boulevard)		SEAL NORTH CAROLINA PROFESSIONAL SEAL 029531 ENGINEER STEVEN G. HAYNIE	
	Division 02 Pitt County Greenville		DocuSigned by Steven G. Haynie 7/15/2025	
	PLAN DATE: July 2025	REVIEWED BY: S.G. Haynie	INIT.	DATE
	PREPARED BY: A.M. Kollar	REVIEWED BY:	SIGNATURE DATE	
REVISIONS		SIC. INVENTORY NO. 02-0029		