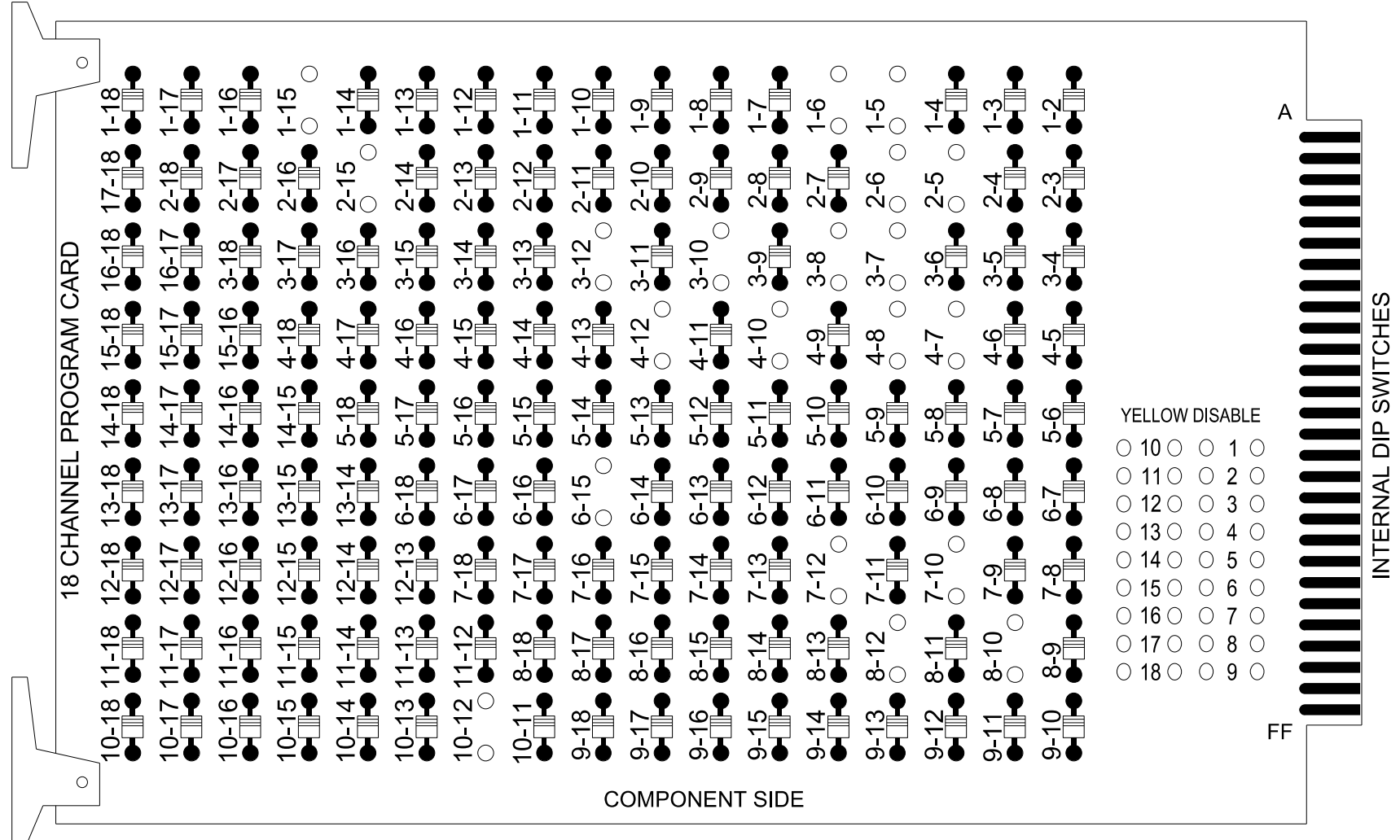


18 CHANNEL IP CONFLICT MONITOR
PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-5,1-6, 1-15, 2-5, 2-6, 2-15, 3-7, 3-8, 3-10, 3-12, 4-7, 4-8, 4-10, 4-12, 6-15, 7-10, 7-12, 8-10, 8-12, and 10-12



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.
- Integrate monitor with Ethernet network in cabinet.

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 plan.
- Program phases 4 and 8 for Dual Entry.
- Program controller to start up in phase 2 Green No Walk and 6 Green No Walk.
- If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.
- The cabinet and controller are part of the Goldsboro Signal System.

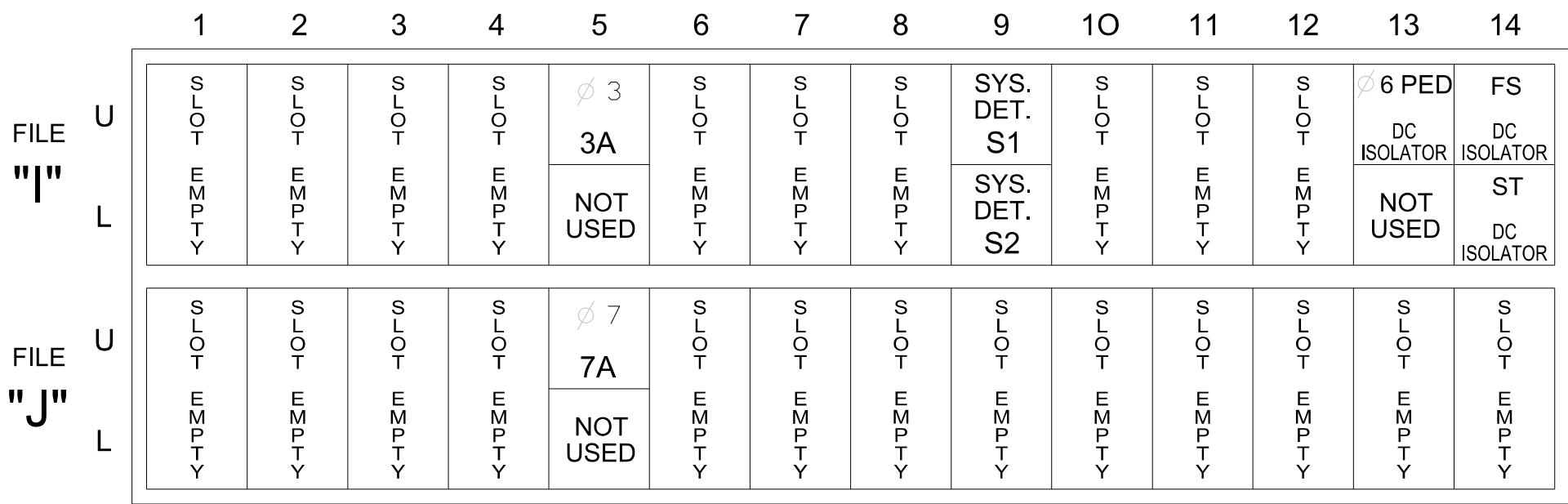
EQUIPMENT INFORMATION

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, S9, S10, S11, AUX S2, AUX S5
Phases Used.....1, 2, 3, 4, 5, 6, 6PED, 7, 8
Overlap "1".....N/A
Overlap "2".....*
Overlap "3".....N/A
Overlap "4".....*

*See overlap programming detail on sheet 2

INPUT FILE POSITION LAYOUT

(front view)



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

FS = FLASH SENSE
ST = STOP TIME

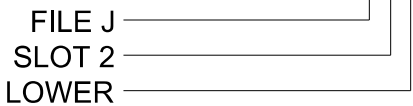
INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	CALL	DELAY DURING GREEN
3A	TB4-5,6	ISU	58	20	7 ★	3	15.0		X		X	
★ S1	TB6-9,10	I9U	60	22	13	SYS	3.0		X		X	
★ S2	TB6-11,12	I9L	62	24	14	SYS						
7A	TB5-5,6	J5U	57	19	21 ★	7	15.0		X		X	
				-	32 ★	4	3.0		X		X	
PED PUSH BUTTONS												
P61,P62	TB8-7,9	I13U	68	34	6	PED 6						

*System detector only. Remove any assigned vehicle phase.

★ For the detectors to work as shown on the signal desing plan, see the MAXTIME Detector Programming Detail for Alternate Phasing on sheet 2.

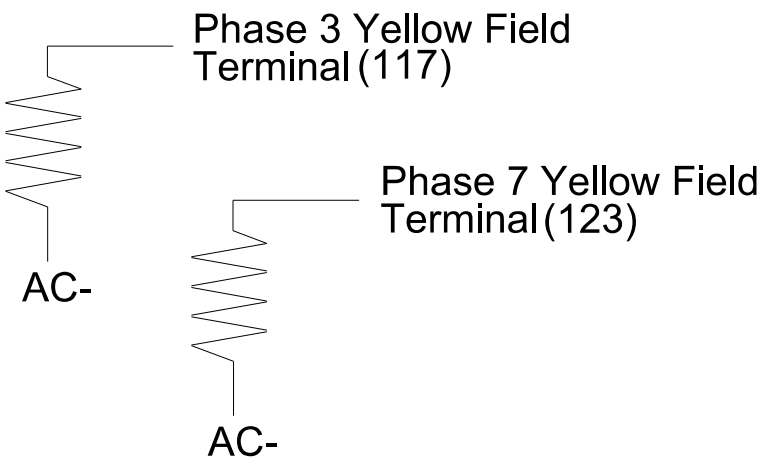
INPUT FILE POSITION LEGEND: J2L



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 multi-zone 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.

Detector card placement for loops 3A and 7A are typical for a NCDOT installation. Inputs accociated with these slots are compatible with time of day instructions located on sheet 2 of this electrical detail.

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.	11	21,22	NU	31 ★	41,42	NU	51	61,62	P61, P62	71 ★	81,82	NU	NU	31 ★	NU	NU	71 ★	NU
RED		128			101			134			107							
YELLOW		129		★	102			135		★	108							
GREEN		130			103			136			109							
RED ARROW	125						131						A124				A101	
YELLOW ARROW	126						132						A125				A102	
FLASHING YELLOW ARROW													A126				A103	
GREEN ARROW	127			118			133			124								
Hand icon									119									
Walking person icon									121									

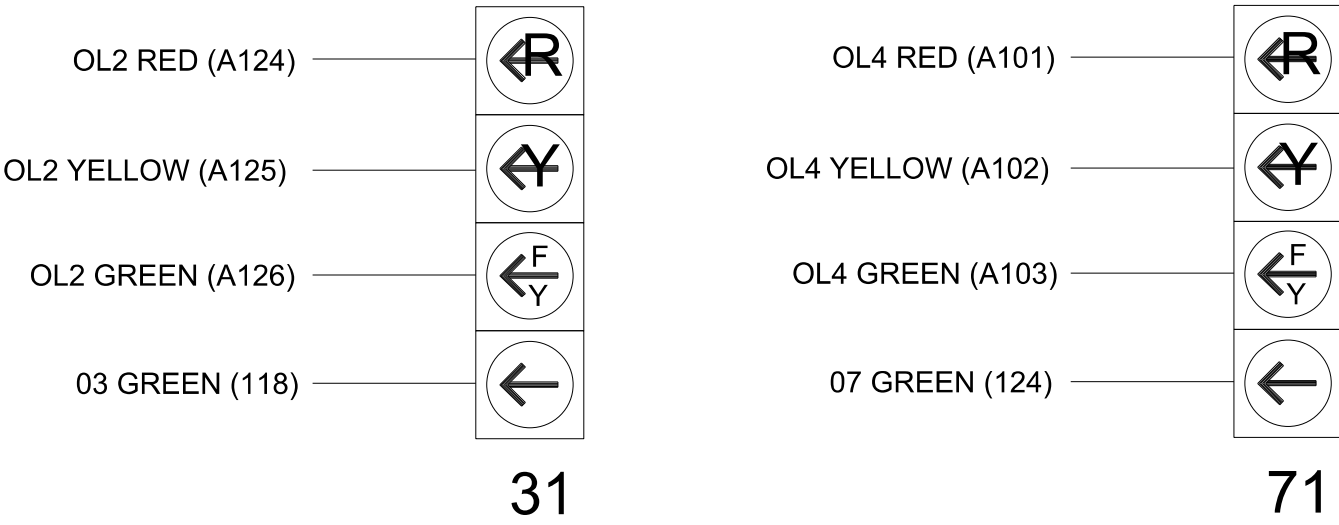
NU = Not Used

* 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)



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.

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 04-0367
DESIGNED: March 2025
SEALED: 8/18/2025
REVISED:

Final 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:

Seal of the State of North Carolina
Department of Transportation
Signal Management Section
750 N. Greenfield Pkwy, Garner, NC 27529

US 13 (Berkeley Boulevard)
at
SR 1003 (New Hope Road)
Division 4 Wayne County Goldsboro
PLAN DATE: March 2025 REVIEWED BY: D A Waller
PREPARED BY: J Galloway REVIEWED BY: R M Muncey
REVISIONS
INIT. DATE
SIGNATURE
DATE

Seal of the State of North Carolina
Professional Engineer
JASON P. GALLOWAY
029904
8/18/2025
SIGNATURE
DATE

SIG. INVENTORY NO. 04-0367