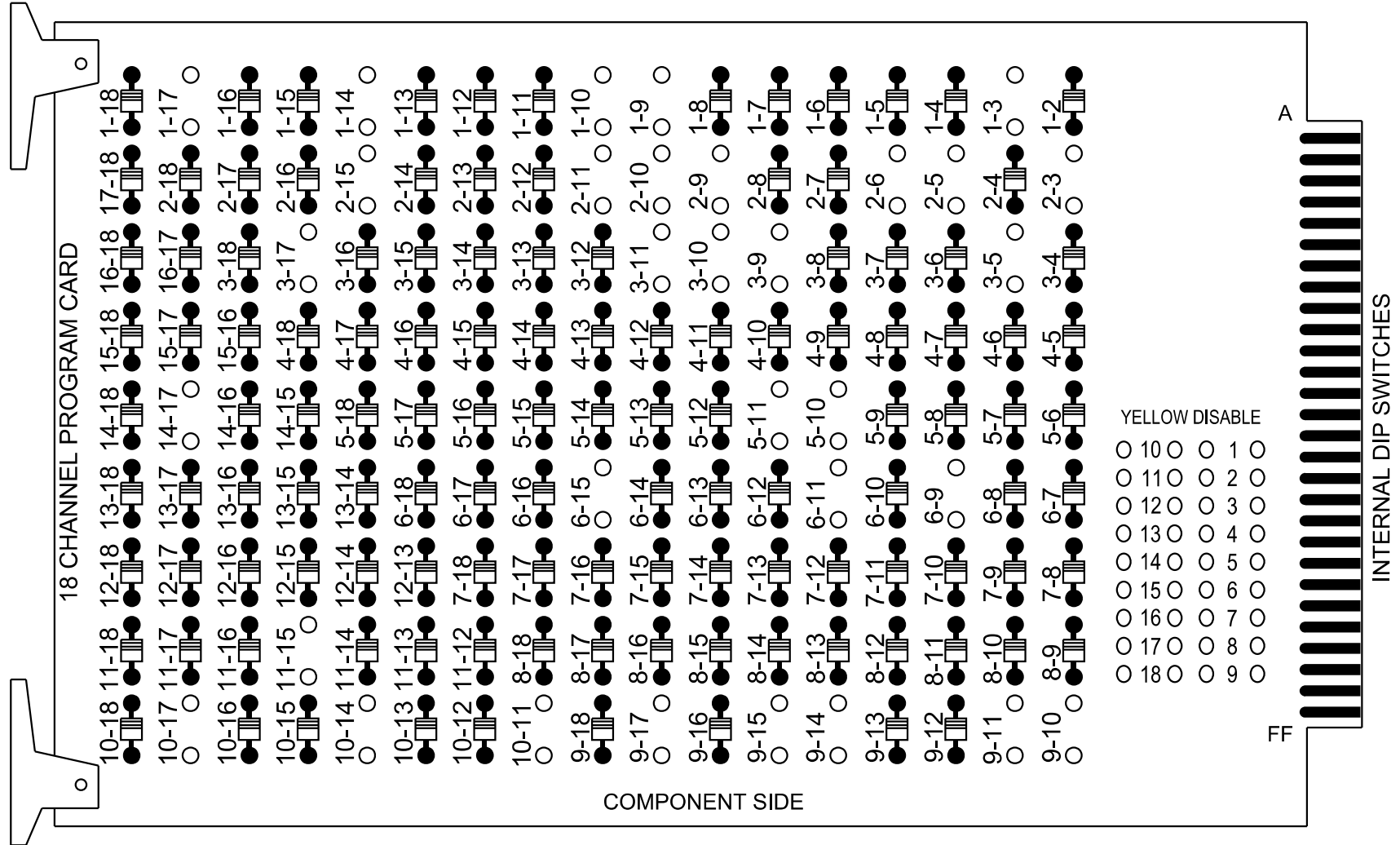


18 CHANNEL IP CONFLICT MONITOR
PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

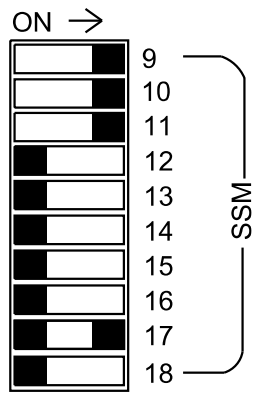
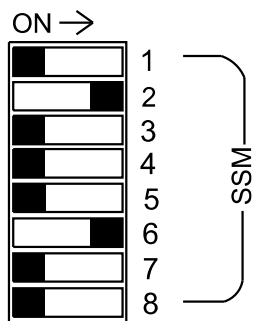
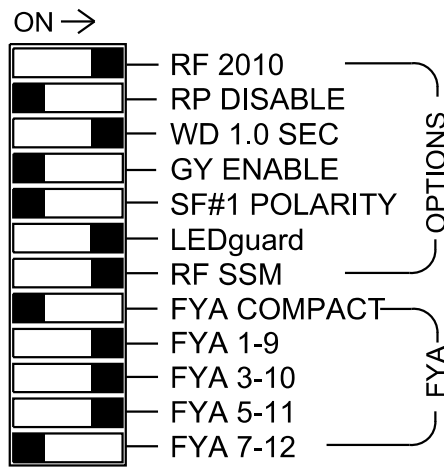
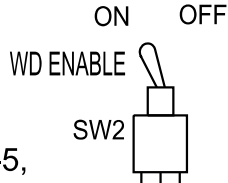
REMOVE DIODE JUMPERS 1-3, 1-9, 1-10, 1-14, 1-17, 2-3, 2-5, 2-6, 2-9, 2-10, 2-11, 2-15, 3-5, 3-9, 3-10, 3-11, 3-17, 5-10, 5-11, 6-9, 6-11, 6-15, 9-10, 9-11, 9-14, 9-15, 9-17, 10-11, 10-14, 10-17, 11-15, and 14-17.



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.
- Integrate monitor with Ethernet network in cabinet.



■ = DENOTES POSITION OF SWITCH

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 3 and 7 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 D09-32_Kernersville Closed Loop 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, S6, S7, S8, S9, AUX S1, AUX S2, AUX S3, AUX S4
Phases Used.....2, 3, 4**, 4PED, 5, 6, 6PED, 7**
Overlap "1".....*
Overlap "2".....*
Overlap "3".....*
Overlap "4".....NOT USED
Overlap "5".....*
Overlap "7".....*
Overlap "8".....*

*See overlap programming detail on sheet 2
**Phase used for timing purposes only

SIGNAL HEAD HOOK-UP CHART

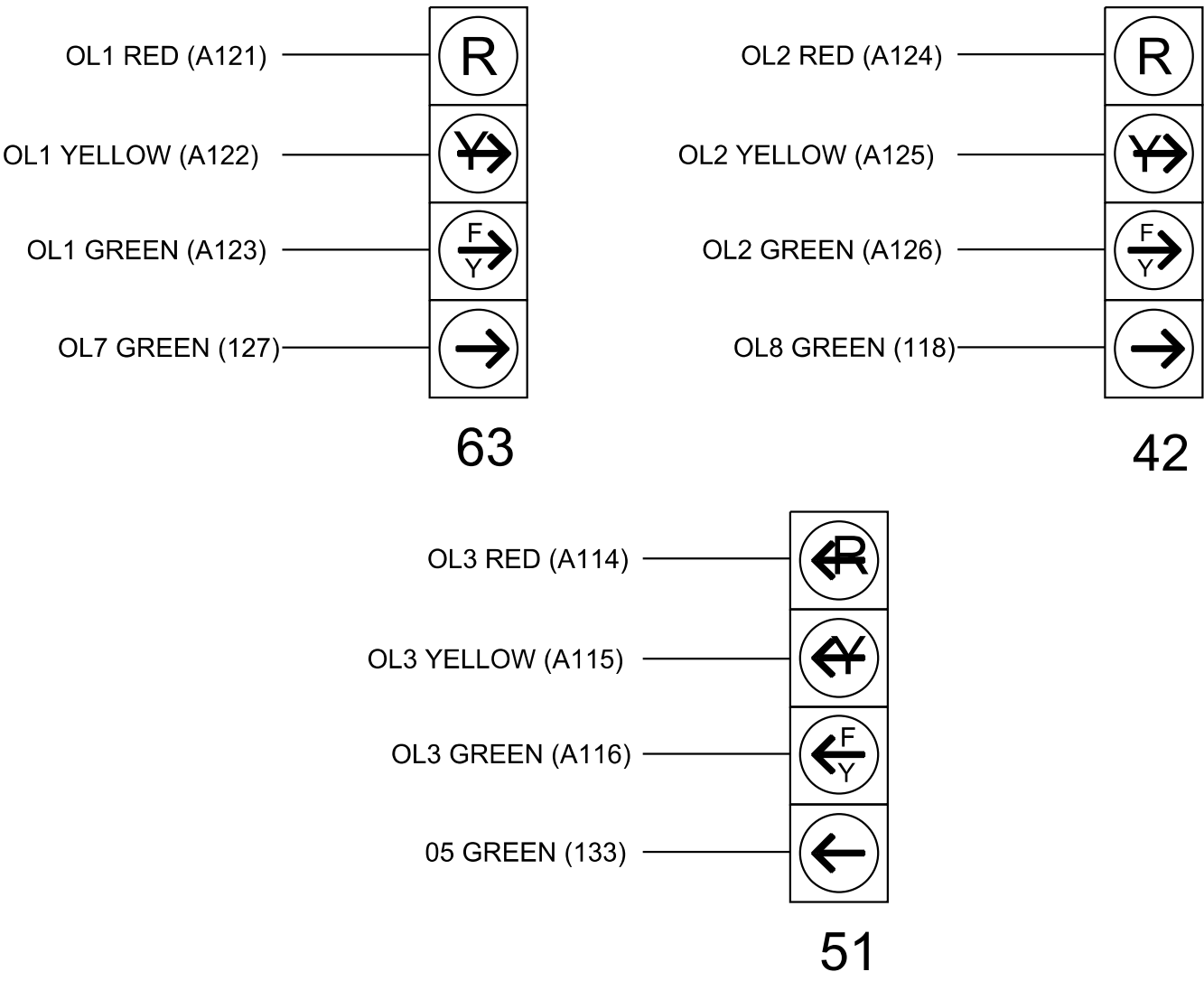
LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18
PHASE	OL7	2	2 PED	OL8	4	4 PED	5	6	6 PED	7	8	8 PED	OL1	OL2	OL5	OL3	OL4	SPARE
SIGNAL HEAD NO.	63★	21,22	NU	42★	NC	P41, P42	51★	61	62	P61, P62	NC	NU	NU	63★	42★	41,43	51★	NU
RED		128						134	134				A121	A124				
YELLOW	*	129		*			*	135	135									
GREEN		130							136									
RED ARROW															A111	A114		
YELLOW ARROW													A122	A125	A112	A115		
FLASHING YELLOW ARROW													A123	A126		A116		
GREEN ARROW	127			118			133	136							A113			
Hand icon						104				119								
Ped icon						106				121								

NU = Not Used
NC = No Connection

- ★ Denotes install load resistor. See load resistor installation detail this sheet.
- ★ See pictorial of head wiring in detail this sheet.
- Load Switch S1 requires special output remapping. See electrical sheet 2 for Channel Configuration details.

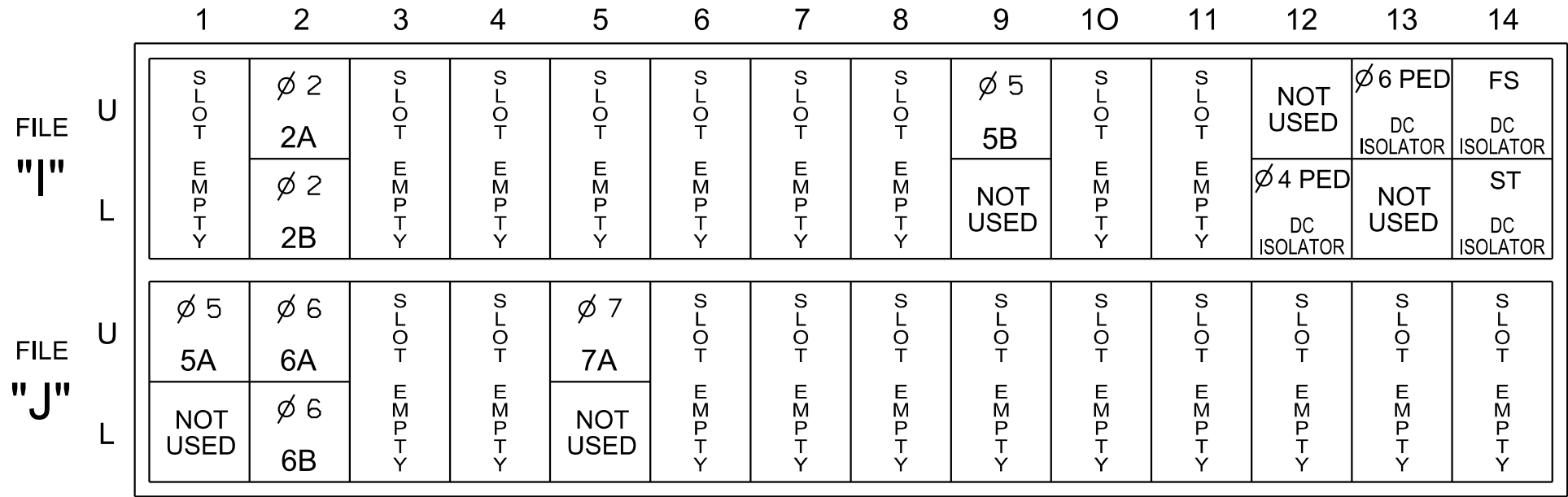
FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



INPUT FILE POSITION LAYOUT

(front view)



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

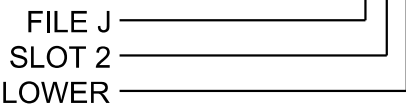
FS = FLASH SENSE
ST = STOP TIME

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
2A	TB2-5,6	I2U	39	1	2	2			X	X	X	
2B	TB2-7,8	I2L	43	5	3	2			X	X	X	
5A	TB3-1,2	J1U	55	17	15★	5	15.0		X		X	
				-	31★	2	3.0		X		X	X
5B	TB6-9,10	I9U	60	22	13	5	15.0		X		X	
6A	TB3-5,6	J2U	40	2	16	6			X	X	X	
6B	TB3-7,8	J2L	44	6	17	6			X	X	X	
7A	TB5-5,6	J5U	57	19	21	7			X		X	
PED PUSH BUTTONS												
P41,P42	TB8-5,6	I12L	69	35	4	PED 4						
P61,P62	TB8-7,9	I13U	68	34	6	PED 6						

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

INPUT FILE POSITION LEGEND: J2L

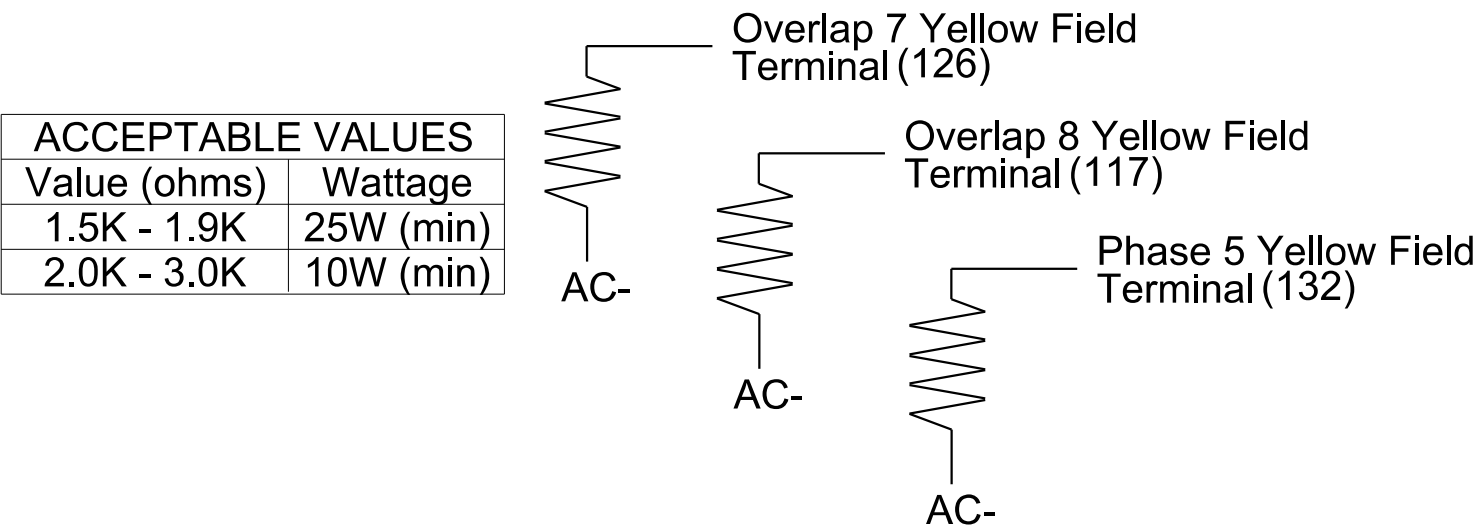


COUNTDOWN PEDESTRIAN SIGNAL OPERATION

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 resistors as shown)



Electrical Detail - Sheet 1 of 3

Electrical AND PROGRAMMING DETAILS FOR:

Prepared For:

750 N.Greenfield Pkwy, Garner, NC 27529

PLANS PREPARED IN THE OFFICE OF:

Kimley»Horn

NC License #F-0102
421 Fayetteville Street, Suite 600
Raleigh, NC 27601
(919) 677-2000

Big Mill Farm Road
at
US 421 NB / NC 150 WB
(Salem Parkway) Ramps

Division 9 Forsyth County Kernersville

PLAN DATE: December 2024 REVIEWED BY: KP Baumann

PREPARED BY: CF Davis REVIEWED BY:

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

NORTH CAROLINA PROFESSIONAL ENGINEER

SEAL 044434

KEVIN P. BAUMANN

DocuSigned by: Kevin P. Baumann

8/4/2025

SIGNATURE DATE

SIG. INVENTORY NO. 09-0363