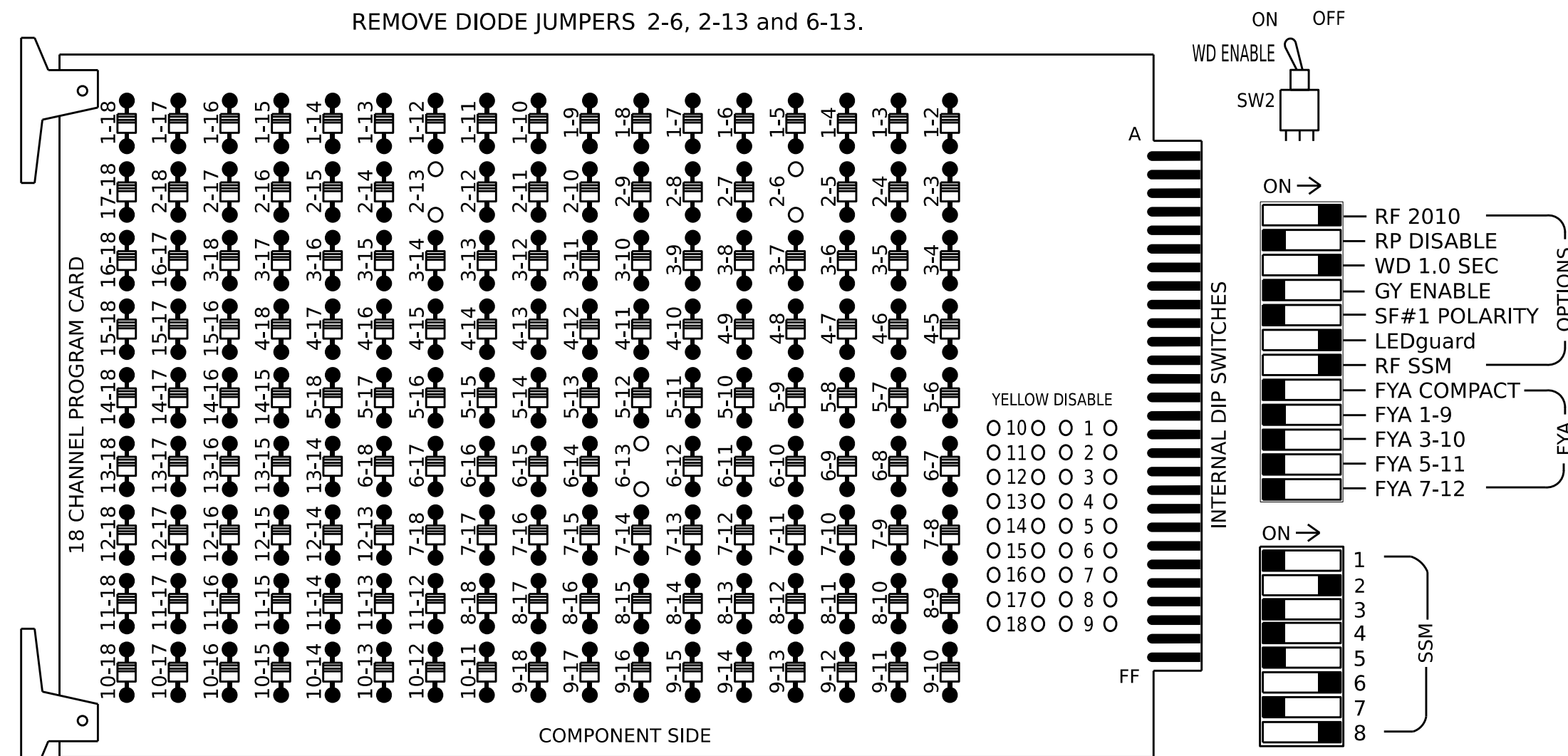


18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches 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 Plans.
- Program controller to start up in phases 2 Green/Don't Walk and 6 Green.
- Enable simultaneous gap-out feature for all phases.
- The cabinet and controller are part of the Hickory Signal System.

EQUIPMENT INFORMATION

Controller.....2070
 Cabinet.....332 w/ Aux
 Software.....SE-PAC2070
 Cabinet Mount.....Base
 Output File Positions.....18 With Aux. Output File
 Load Switches Used.....S2, S3, S8, S11
 Phases Used.....2, 2PED, 4, 6, 8
 Overlaps.....NONE

ΔPhase used for timing only

SIGNAL HEAD HOOK-UP CHART

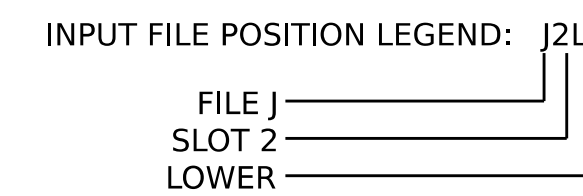
LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	NU	21	22	P21,P22 P23,P24	NU	NC	NU	61	62	NU	81,82 83	84	NU	NU	NU	NU	NU	NU
RED	128	128						134	134			107						
YELLOW	129	129						135	135			108						
GREEN		130							136			109						
RED ARROW												107						
YELLOW ARROW												108						
FLASHING YELLOW ARROW																		
GREEN ARROW		130							136			109						
Hand icon																		
Person icon																		

NU = Not Used
 NC = Not Connected

INPUT FILE CONNECTION & PROGRAMMING CHART

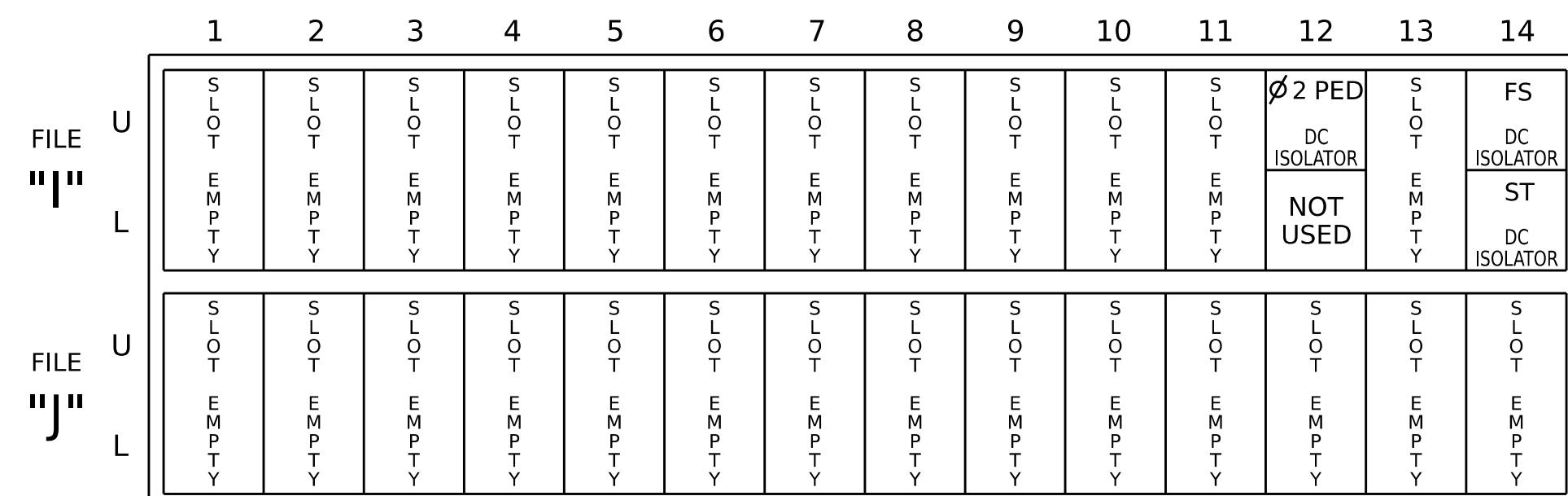
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	DELAY TIME	EXTEND (STRETCH) TIME
PED PUSH BUTTONS							
P21,P22,P23,P24	TB8-4,6	I12U	67	PED 2	2 PED		

NOTE:
 INSTALL DC ISOLATOR IN INPUT FILE SLOT I12.



INPUT FILE POSITION LAYOUT

(front view)



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

FS = FLASH SENSE
 ST = STOP TIME

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.

ADVANCE WALK PED PROGRAMMING DETAIL

(program controller as shown below)

- From Main Menu select **3-PHASE DATA**
- From PHASE DATA Submenu select **3-PEDESTRIAN DATA**
- From PEDESTRIAN DATA Submenu select **3-PED OFFSET+**

PHASE	1	2	3	4	5	6	7	8
WOFF/10	0	50	0	0	0	0	0	0
MODE	0	0	0	0	0	0	0	0

CODES: * 0=ADVANCE 1=DELAY

ADVANCE WALK PED PROGRAMMING COMPLETE

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.

Electrical Detail - Sheet 1 of 2

Electrical and Programming Details For:

Prepared in the Offices of:

750 N. Greenfield Pkwy, Garner, NC 27529

I-40 EB Ramp at SR 1007 (Lenoir Rhyme Blvd) & SR 1534 (8th St SE)(West Intersection)

Division 12, Catawba County, Hickory

PLAN DATE: April 2026 REVIEWED BY:

PREPARED BY: Tim Langston REVIEWED BY:

REVISIONS	INIT.	DATE

DocuSigned by: **D. Todd Joyce** 04/10/2026

SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 031001 D. TODD JOYCE

SIG. INVENTORY NO. 12-0308

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 12-0308
 DESIGNED: December 2025
 SEALED: 04/09/2026
 REVISED: N/A