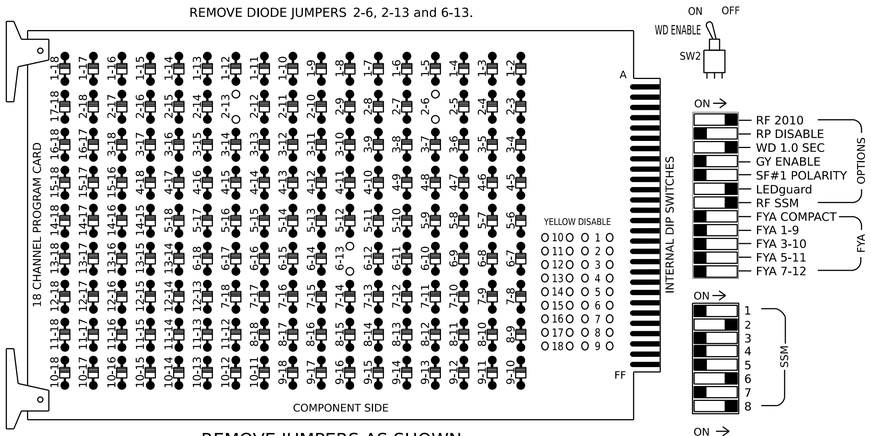
PROJECT REFERENCE NO.	SHEET NO.
I-5716	Sig. 10.1

18 CHANNEL IP CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



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.
4. Integrate monitor with Ethernet network in cabinet.

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 phases 2 Green/Don't Walk and 6 Green.
3. Enable simultaneous gap-out feature for all phases.
4. 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,ᴬ4, 6, 8
Overlaps.....NONE

ᴬPhase 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	NU	61	62	NU	NU	81,82 83	84	NU	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								
✋				113																	
🚶				115																	

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 LEGEND: J2L
FILE J
SLOT 2
LOWER

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	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	SLOT EMPTY	Ø2 PED DC ISOLATOR	SLOT EMPTY	FS DC ISOLATOR
	L												NOT USED		ST DC ISOLATOR
FILE "J"	U	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	SLOT EMPTY
	L														

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)

1. From Main Menu select `3-PHASE DATA`
2. From PHASE DATA Submenu select `3-PEDESTRIAN DATA`
3. 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.

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 12-0308
DESIGNED: August 2026
SEALED: 08/12/2026
REVISED: N/A

Electrical Detail - Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Electrical and Programming Details For:

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

Division 12 Catawba County Hickory

PLAN DATE: August 2026 REVIEWED BY:
PREPARED BY: Tim Langston REVIEWED BY:

REVISIONS	INIT.	DATE

Prepared in the Offices of:
Transportation Mobility and Safety Division
STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
Signals Management Section
750 N. Greenfield Pkwy, Garner, NC 27529

SEAL
NORTH CAROLINA PROFESSIONAL SEAL 031001 ENGINEER D. TODD JOYCE

DocuSigned by:
D. Todd Joyce
A90CADFD8D424ID...
08/12/2026
DATE

SIG. INVENTORY NO. 12-0308

11-AUG-2026 16:28
pw:\\mcdot-pw.bentley.com:mcdot-pw-01\Documents\NCDOT Units\NCDOT TSMO\Signal Design Section\Division_12\12-0308\Signals Management\120308_sm_ele_yyyymmdd.dgn
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