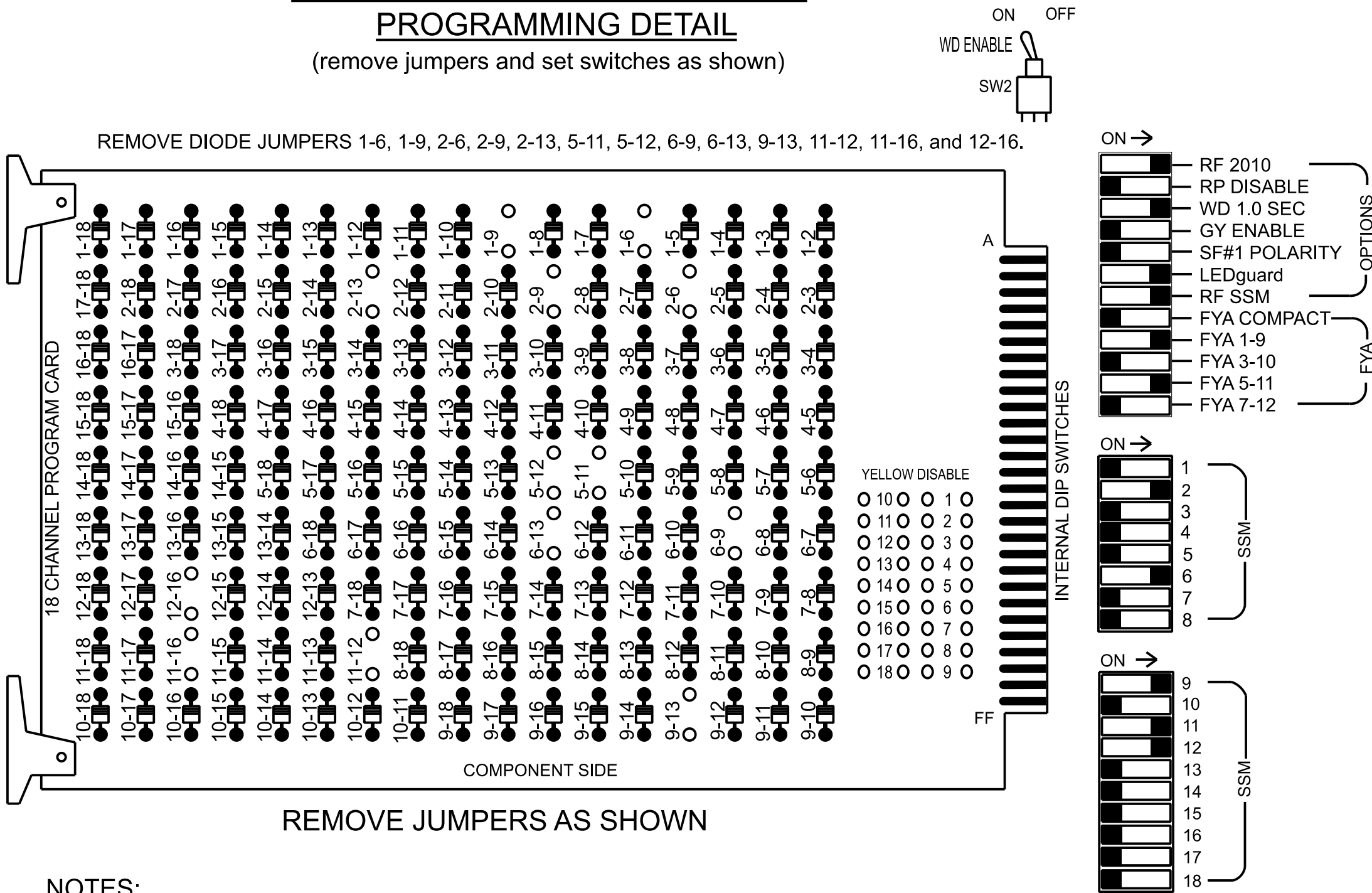


18 CHANNEL CONFLICT MONITOR
PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



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 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 D13-24_Rutherfordton 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, S3, S7, S8, S12, AUX S1, AUX S4
AUX S5
Phases Used.....1, 2, 2PED, 3PED, 4*, 6
Overlap "1".....**
Overlap "2".....Not Used
Overlap "3".....**
Overlap "4".....**
Overlap "5".....Not Used
Overlap "6".....Not Used
Overlap "7".....**

*Timing purposes only
**See overlap programming detail on sheet 2

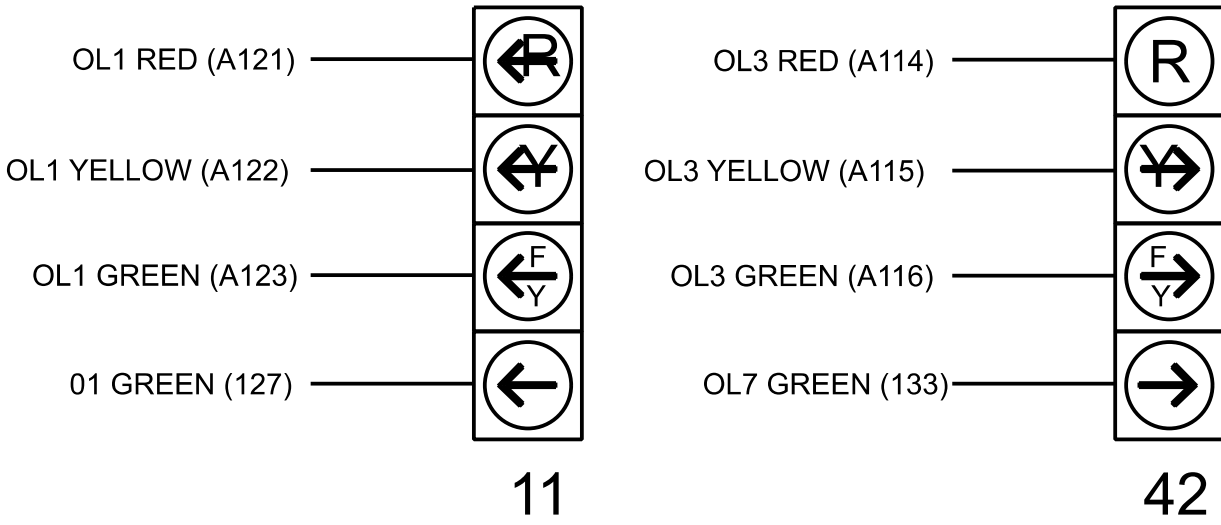
SIGNAL HEAD HOOK-UP CHART

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	3	4	4 PED	OL7	6	6 PED	7	8	3 PED	OL1	OL2	OL5	OL3	OL4	OL6
SIGNAL HEAD NO.	11★	21, 22, 23	P21, P22	NU	NC	NU	42★	61, 62	NU	NU	NU	P31, P32	11★	NU	NU	42★	41★	NU
RED		128						134										
YELLOW	★	129					★	135										
GREEN		130						136										
RED ARROW													A121			A114	A101	
YELLOW ARROW													A122			A115	A102	
FLASHING YELLOW ARROW													A123			A116		
GREEN ARROW	127						133										A103	
⬇			113									110						
⬇			115									112						

NU = Not Used
NC = Not Connected
★ 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)



INPUT FILE POSITION LAYOUT

(front view)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE "I"	∅ 1 1A	∅ 2 2A	S O T	S O T	S O T	∅ 4 4A	S O T	S O T	S O T	S O T	S O T	∅ 2 PED DC ISOLATOR	NOT USED	FS DC ISOLATOR
	NOT USED	NOT USED	F M P T	F M P T	F M P T	NOT USED	F M P T	F M P T	F M P T	F M P T	F M P T	NOT USED	∅ 3 PED DC ISOLATOR	ST DC ISOLATOR
FILE "J"	S O T	∅ 6 6A	S O T	S O T	S O T	S O T	S O T	S O T	S O T	S O T	S O T	PRE3 DC ISOLATOR	S O T	S O T
	F M P T	NOT USED	F M P T	F M P T	F M P T	F M P T	F M P T	F M P T	F M P T	F M P T	F M P T	PRE5 DC ISOLATOR	F M P T	F M P T

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

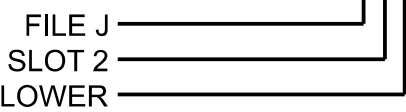
FS = FLASH SENSE
ST = STOP TIME
PRE = PREEMPT

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
1A	TB2-1,2	I1U	56	18	1 29	1 6	15.0		X		X	
2A	TB2-5,6	I2U	39	1	2	2			X		X	
4A	TB4-9,10	I6U	41	3	8	4	5.0		X		X	
6A	TB3-5,6	J2U	40	2	16	6			X		X	
PED PUSH BUTTONS												
P21,P22	TB8-4,6	I12U	67	33	2	PED 2						
P31,P32	TB8-8,9	I13L	70	36	8	PED 3						

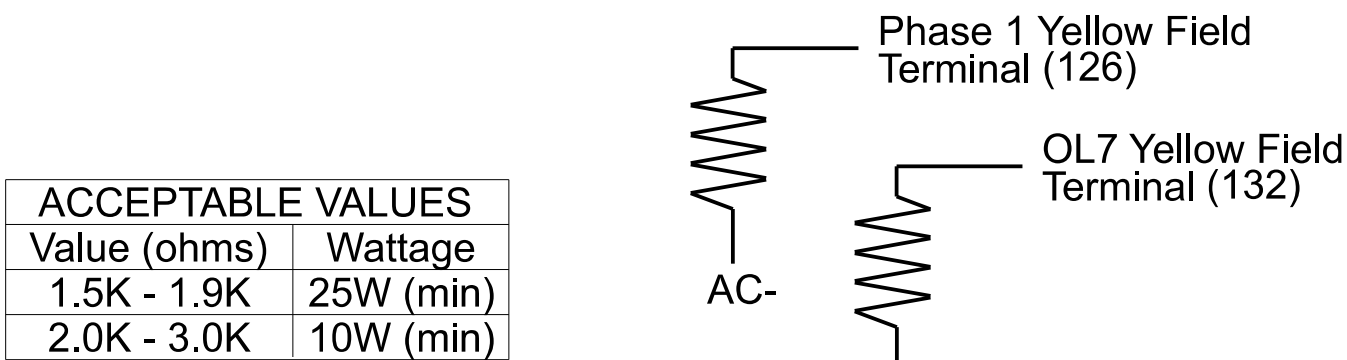
NOTE:
INSTALL DC ISOLATORS
IN INPUT FILE SLOTS
112 AND 113.

INPUT FILE POSITION LEGEND: J2L



LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)



THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 13-1351
DESIGNED: FEBRUARY 2026
SEALED: 05/12/2026
REVISED:

HNTB

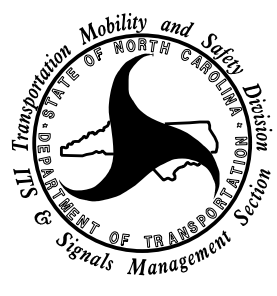
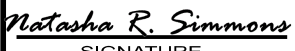
HNTB NORTH CAROLINA, P.C.
4000 Center at North Hills St
Suite 500
Raleigh, North Carolina 27609
NC License No: C-1554
(919) 546-8997

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.

New Installation
Electrical Detail - Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR: Prepared for the Offices of:  750 N. Greenfield Pkwy, Garner, NC 27529	SR 1218/NC 108 (Washington St) at NC 108 (Maple St)		SEAL 
	Division 13	Rutherford County	Rutherfordton
	PLAN DATE: February 2026	REVIEWED BY: N. K. Vianich	
	PREPARED BY: E.E. Tiller	REVIEWED BY: N. R. Simmons	
REVISIONS		INIT.	DATE
DocuSigned by: 		5/12/2026	
SIGNATURE		DATE	
SIG. INVENTORY NO.		13-1351	