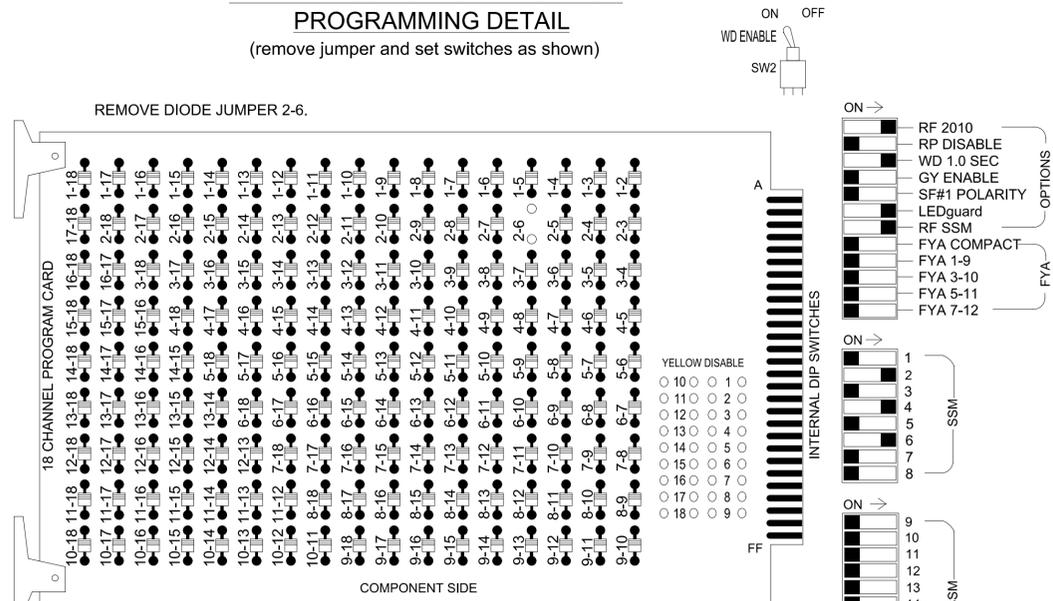


18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumper and set switches 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 unused vehicle load switches in the output file. The Installer shall verify that signal heads flash in accordance with the signal plan.
2. Install most current version of 332_NCDOT_HAWK default database onto controller.
3. Program controller to start up in phase 2 Green No Walk and 6 Green No Walk.
4. Program phases 4 for No Startup Veh Call and No Startup Ped Call.
5. Program phase 4 for Ped Clear During Red Clear.
6. The cabinet and controller are part of the SR 1700 (Covered Bridge Road) System.

EQUIPMENT INFORMATION

Controller.....2070LX
 Cabinet.....332 w/ AUX
 Software.....Q-Free MAXTIME
 Cabinet Mount.....Base
 Output File Positions.....18 w/ Aux. Output File
 Load Switches Used.....S2, S3, S5, S8
 Phases Used.....2, 2PED, *4, 6
 Overlap "1".....NOT USED
 Overlap "2".....NOT USED
 Overlap "3".....NOT USED
 Overlap "4".....NOT USED

* Phases used for timing purposes only.

SIGNAL HEAD HOOK-UP CHART

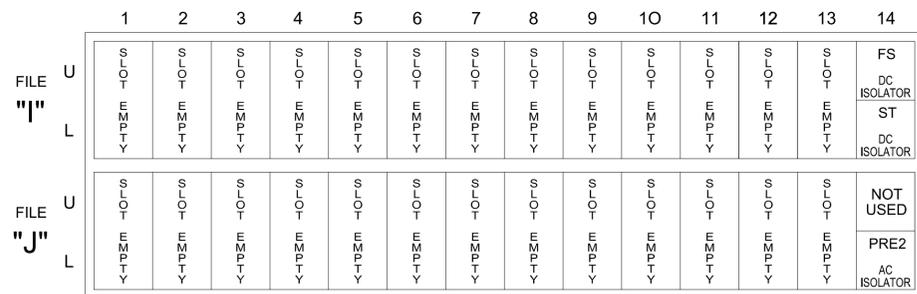
LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6	
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18	
PHASE	1	2	2 PED	EVP 2	3	4	4 PED	5	6	6 PED	7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	NU	21,22,23,24	NU	FIRE PILOT LAMP	NU	41,42,43,44,45,46	NC	NU	21,22,23,24	NU	NU	NU	NU	NU	NU	51	NU	NU	
RED		128			101			134											
YELLOW		129			102			*											
GREEN		*			103			*											
RED ARROW																			
YELLOW ARROW																			
FLASHING YELLOW ARROW																			
GREEN ARROW																			
PED YELLOW																			

NU = Not Used
 NC = Not Connected

* Denotes install load resistor. See load resistor installation detail this sheet.

INPUT FILE POSITION LAYOUT

(front view)



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

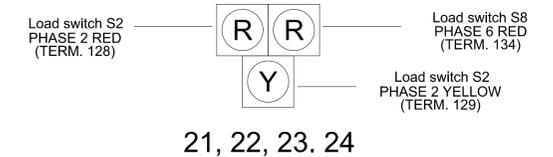
FS = FLASH SENSE
 ST = STOP TIME
 PRE = PREEMPT

TIMING INTERVAL

PHASE 2+6 GREEN = Dark Display
 PHASE 2+6 PRE CLEARANCE = Flashing Yellow Time
 PHASE 2+6 YELLOW CHANGE = Solid Yellow Time
 PHASE 2+5 RED CLEAR = Steady Red Display
 PHASE 4 PED CLEAR = Alternating Flashing Red Display
 PHASE 4 YELLOW CHANGE = Alternating Flashing Red Display
 PHASE 4 RED CLEAR = Alternating Flashing Red Display

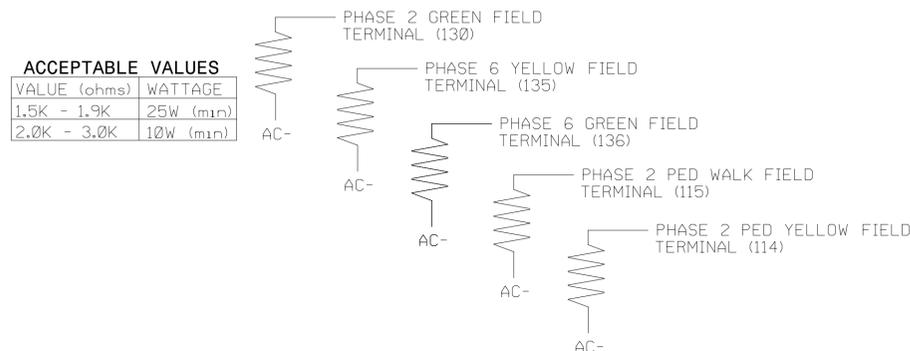
SIGNAL WIRING DETAIL

(wire signal heads as shown)



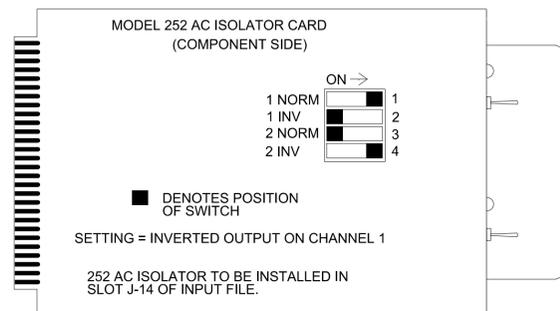
LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown below)



PREEMPT 2 AC ISOLATOR (MODEL 252) OUTPUT PROGRAMMING DETAIL

(set DIP switches as shown below)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 04-1471
 DESIGNED: April 2025
 SEALED: 04/24/25
 REVISED: N/A



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 919.829.0328

Electrical Detail - Sheet 1 of 3 - Final Design

Electrical AND PROGRAMMING DETAILS FOR:

SR 1700 (Covered Bridge Road) at Archer Lodge Fire Department

Divison 4 Johnston County Archer Lodge

PLAN DATE: April 2025 REVIEWED BY: M.L. Stygles
 PREPARED BY: L. Gottlieb REVIEWED BY: J. Ma

REVISIONS: _____ INIT. DATE _____

750 N. Greenfield Pkwy, Garner, NC 27529

384861E8460746C

Sig. INVENTORY NO. 04-1471

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



Signed by: *Matthew L. Stygles*
 DATE: 4/24/2025