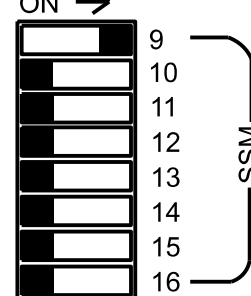
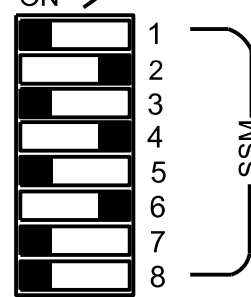
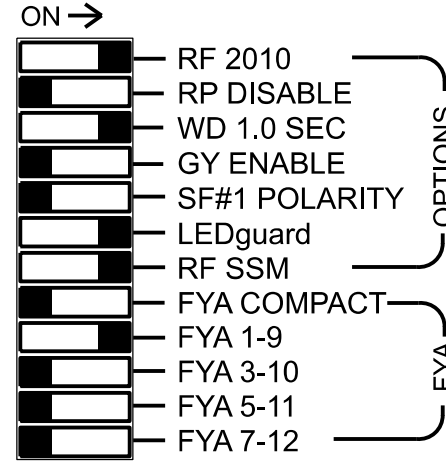
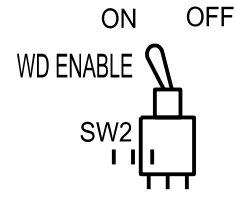
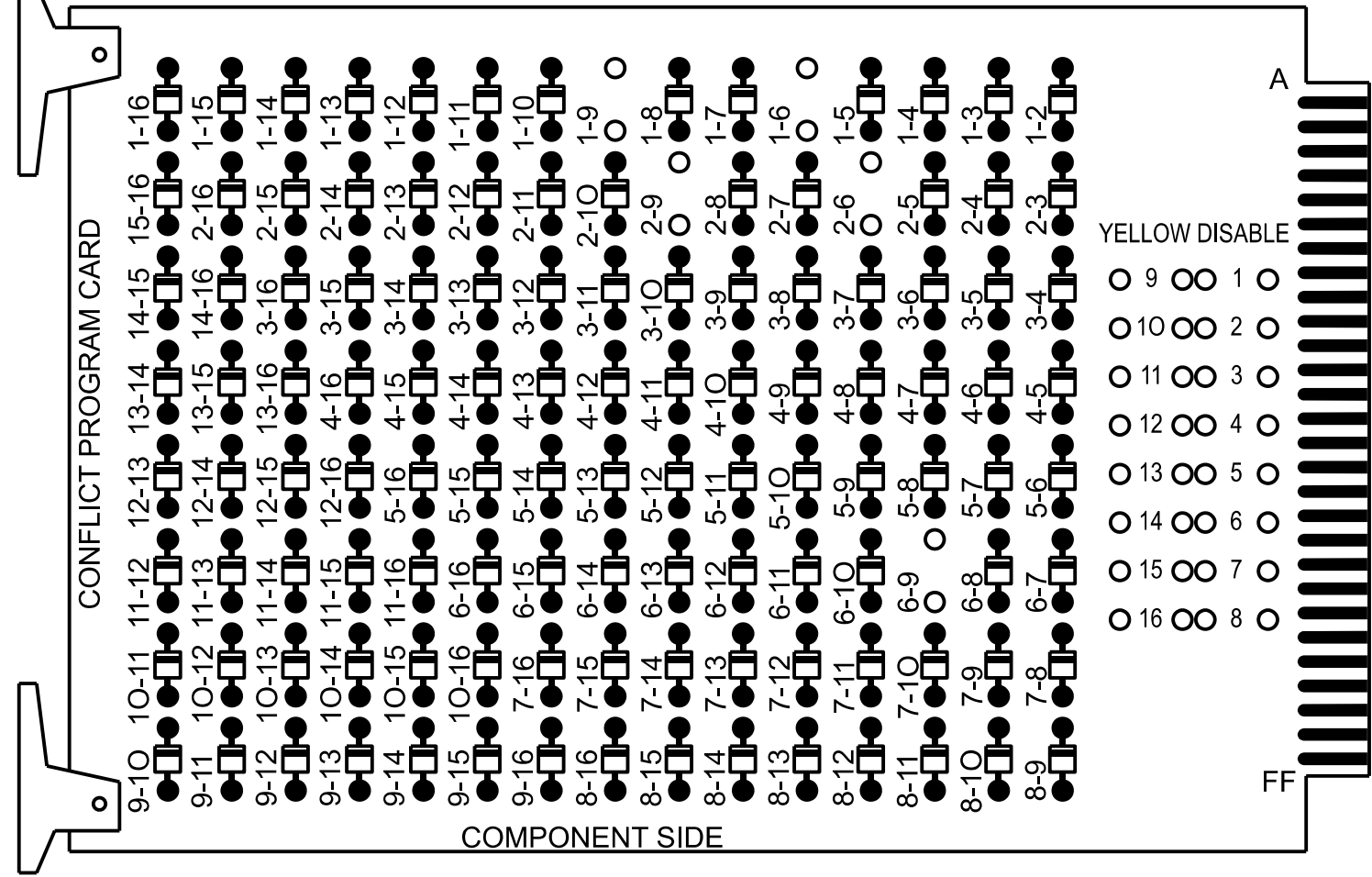


k:\RAL_TPTD\Signal\Signal\1036730 U-4913A\51 - Signal Design\DRW\1 U-4913A-102050-2025e.dgn 5/9/2025 11:34:36 AM susan.pennington

16 CHANNEL CONFLICT MONITOR
PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-6, 1-9, 2-6, 2-9, and 6-9.



■ = DENOTES POSITION OF SWITCH

REMOVE JUMPERS AS SHOWN

NOTES:

- Card is provided with all diode jumpers in place. Removal of any jumper allows its channels to run concurrently.
- Make sure jumpers SEL2-SEL5 are present on the monitor board.

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 SR 3174 / 1501 (Idlewild Road) 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, S9
Phases Used.....1, 2, 4, 6
Overlap "1".....*
Overlap "2".....Not Used
Overlap "3".....Not Used
Overlap "4".....Not Used

*See overlap programming detail on sheet 2

SIGNAL HEAD HOOK-UP CHART

LOAD SWITCH NO.	S1	S2	S2P	S3	S4	S4P	S5	S6	S6P	S7	S8	S8P	S9	S10	S11	S12	S13	S14
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.	11★	21	22	NU	NU	41,42	NU	NU	61	62	NU	NU	NU	11★	NU	NU	NU	NU
RED	.	128	128	.	.	101	.	.	134	134	.	.	.	.	.	.	.	.
YELLOW	★	129	129	.	.	102	.	.	135	135	.	.	.	.	.	.	.	.
GREEN	.	.	130	.	.	103	.	.	136	.	.	.	.	.	.	.	.	.
RED ARROW	.	.	.	.	.	.	.	.	.	.	.	.	.	A121	.	.	.	.
YELLOW ARROW	.	.	.	.	.	.	.	.	.	.	.	.	.	A122	.	.	.	.
FLASHING YELLOW ARROW	.	.	.	.	.	.	.	.	.	.	.	.	.	A123	.	.	.	.
GREEN ARROW	127	130	.	.	.	.	.	.	136	.	.	.	.	.	.	.	.	.
Hand icon	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Walking person icon	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.

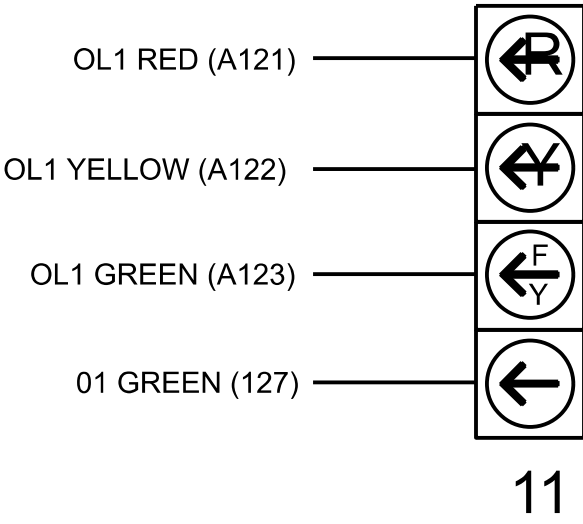
NU = Not Used

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

★ See pictorial of head wiring in detail this sheet.

FYA SIGNAL WIRING DETA

(wire signal head as shown)



INPUT FILE POSITION LAYOUT

(front view)

		1	2	3	4	5	6	7	8	9	10	11	12	13	14
FILE "I"	U	Ø 1 1A	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	FS
	L		NOT USED	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	DC ISOLATOR
															ST
FILE "J"	U	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT	SLOT
	L	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY	EMPTY

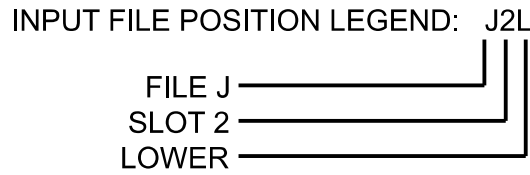
EX. : 1A, 2A, ETC. = LOOP NO.'S

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
1A	TB2-1,2	11U	56	18	1★	1	15.0		X		X	
				29★	29★	6	3.0		X		X	X

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



SPECIAL DETECTOR NOTE

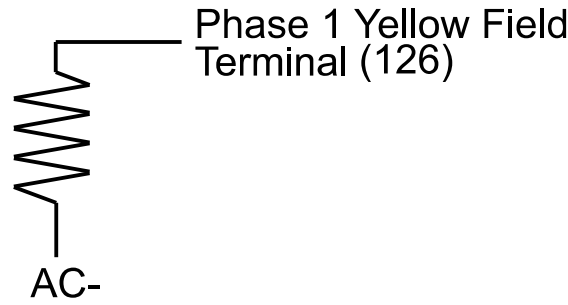
Install a multi-zone microwave detection system for all vehicle detection. Perform installation according to manufacturer's directions and NCDOT engineer -approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans.

For zone 1A, inputs associated with typical detector slot for an NCDOT installation is compatible with time of day instructions located on sheet 2 of the electrical detail.

LOAD RESISTOR INSTALLATION DETAIL

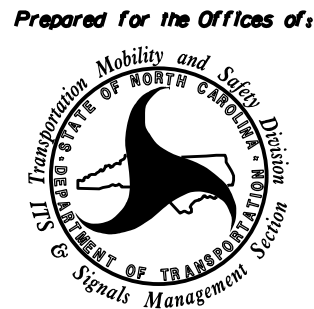
(install resistor as shown)

ACCEPTABLE VALUES	
Value (ohms)	Wattage
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)



Electrical Detail - Sheet 1 of 2

ELECTRICAL AND PROGRAMMING DETAILS FOR:



PLANS PREPARED IN THE OFFICE OF:
Kimley-Horn
NC License #F-0102
421 Fayetteville Street, Suite 600
Raleigh, NC 27601
(919) 677-2000

SR 3174 (Idlewild Road)
at
I-485 Inner Loop Ramps

Division 10 Wecklenburg County Stallings

PLAN DATE: February 2025 REVIEWED BY: KP Baumann

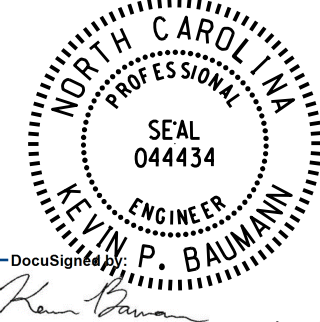
PREPARED BY: SP Pennington REVIEWED BY:

REVISIONS INIT. DATE

DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL



5/12/2025 DATE

SIG. INVENTORY NO. 10-2050