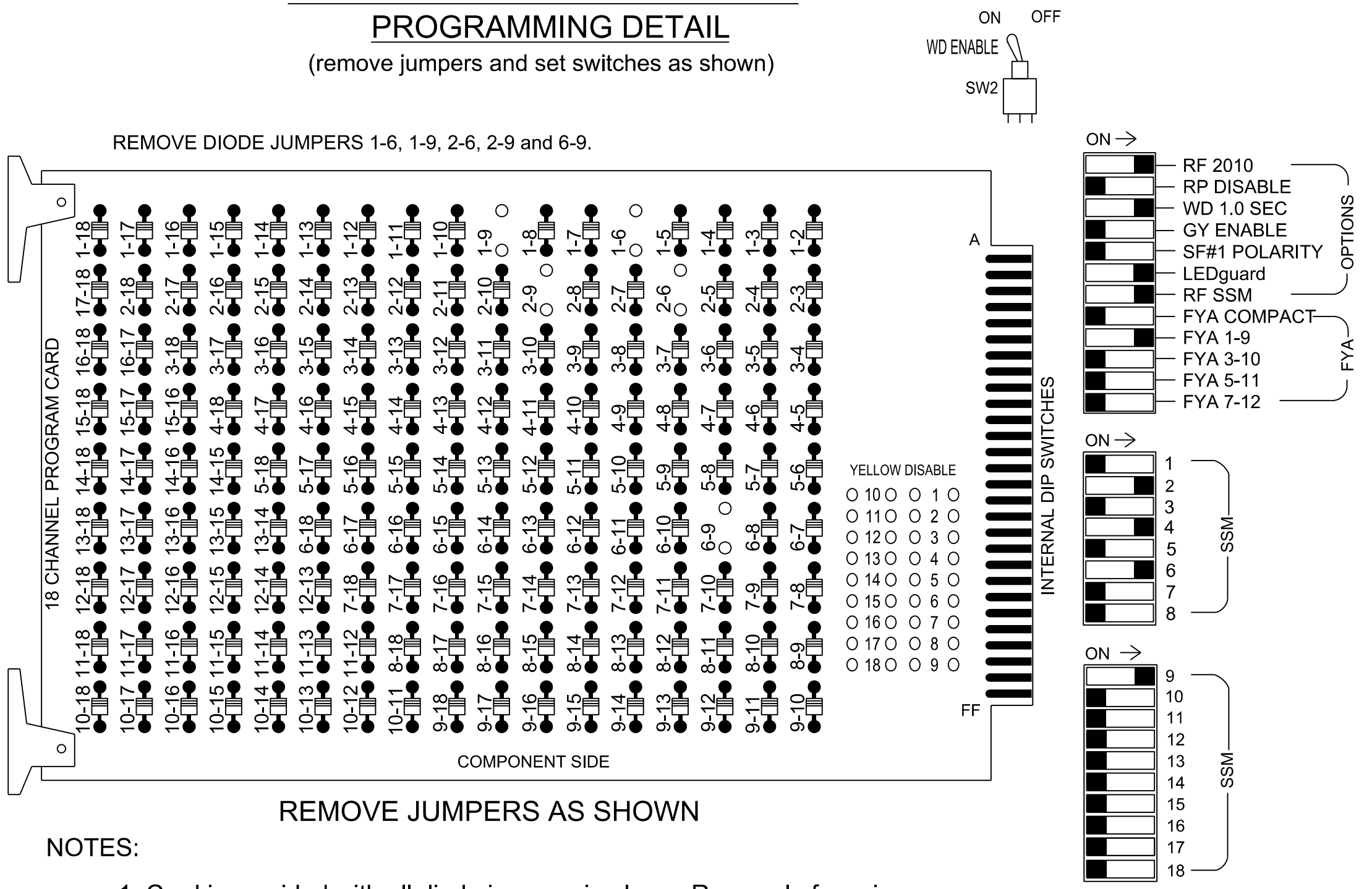


**18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL**  
(remove jumpers and set switches as shown)



**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.
- Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.

**NOTES**

- 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.
- Return controller to Factory Defaults before programming per this electrical detail.
- 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 NC 87/ SR 2817 (Barnes Street) Closed Loop System. Signal System #: D07-10 Reidsville.

**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, S5, S8, AUX S1  
 Phases Used.....1, 2, 4, 6  
 Overlap "1".....\*  
 Overlap "2".....NOT USED  
 Overlap "3".....NOT USED  
 Overlap "4".....NOT USED

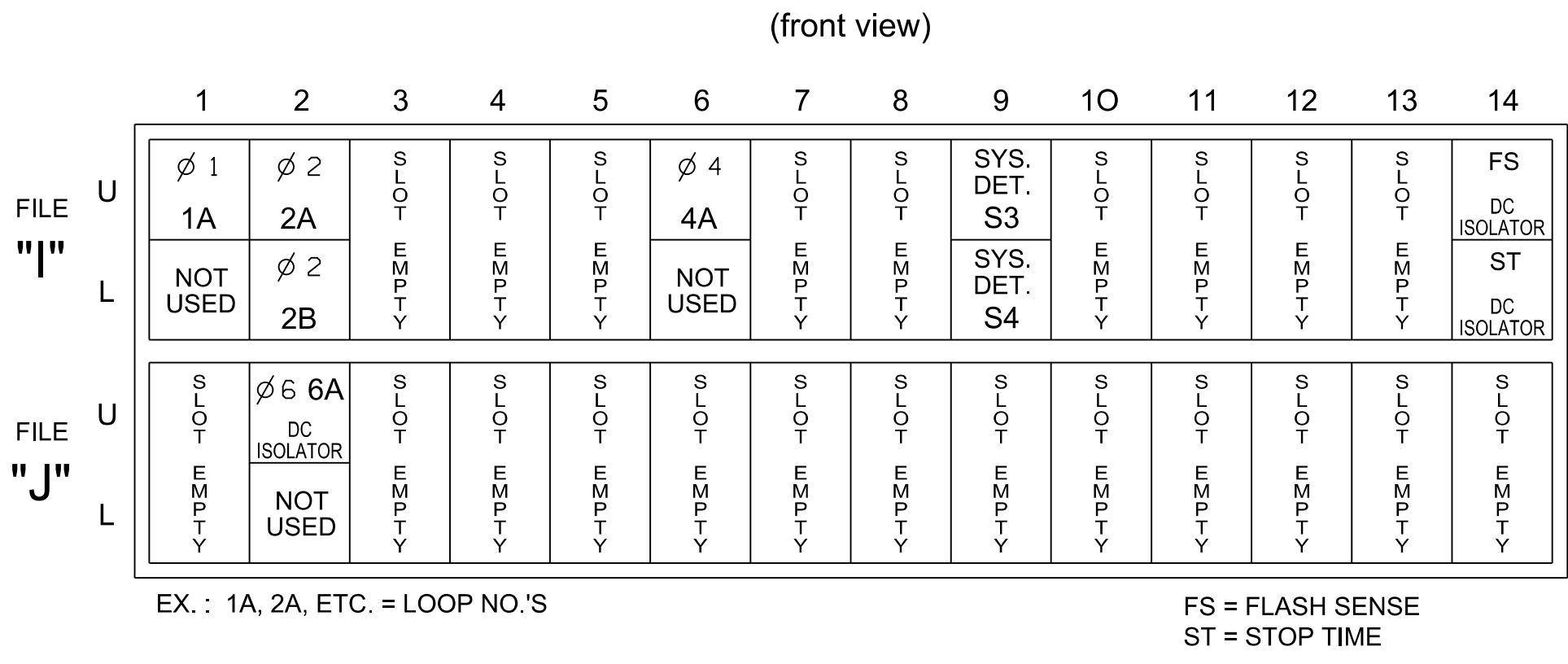
\*See overlap programming detail on sheet 3

**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.	11	21	22	NU	41,42	NU	NU	61	62	NU	NU	NU	11	NU	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								

NU = Not Used  
 \* Denotes install load resistor. See load resistor installation detail this sheet.  
 \*See pictorial of head wiring in detail this sheet.

**INPUT FILE POSITION LAYOUT**



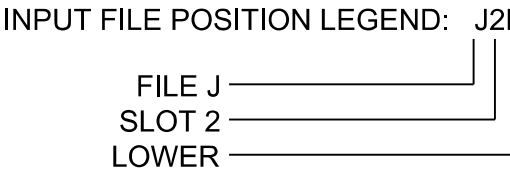
Note: Install a model 242 DC Isolator in slot J2 for use with microwave detector. See the Microwave Detector Wiring Details on sheet 2.

- IMPORTANT: For proper operation of the microwave detector, remove surge protection from TB3-5 and TB3-6, and from TB3-7 and TB3-8.
- IMPORTANT: If TB3-6 is tied to AC NEUTRAL, remove jumper, DO NOT connect TB3-6 to AC NEUTRAL.

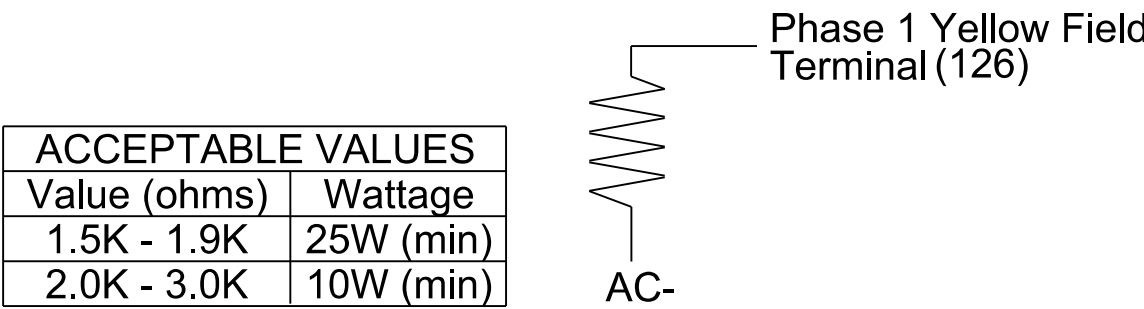
**INPUT FILE CONNECTION & PROGRAMMING CHART**

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	QUEUE	CALL	PASSAGE 2
1A	TB2-1,2	11U	56	18	1	1	15		X			X	X
2A	TB2-5,6	12U	39	1	2	2			X	X		X	
2B	TB2-7,8	12L	43	5	3	2			X	X		X	
4A	TB4-9,10	16U	41	3	8	4			X			X	
*S3	TB6-9,10	19U	60	22	13	SYS							
*S4	TB6-11,12	19L	62	24	14	SYS							
6A	**	J2U	40	2	16	**			X	X		X	

\*\*Microwave Pulse Detector (See Wiring Detail Sheet 2).  
 \*System detector only. Remove any assigned vehicle phase.

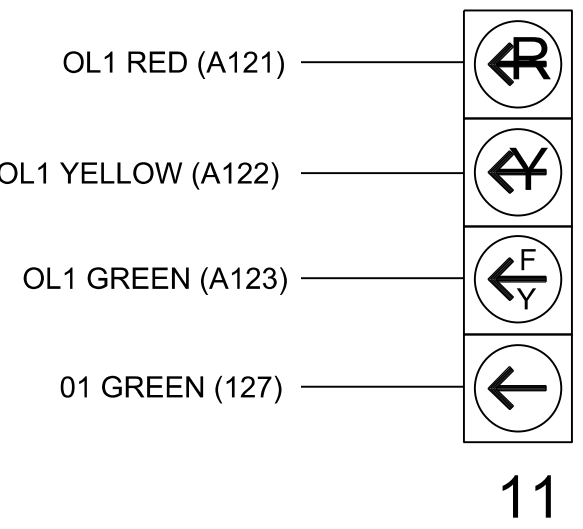


**LOAD RESISTOR INSTALLATION DETAIL**  
(install resistor as shown)



**FYA SIGNAL WIRING DETAIL**

(wire signal head as shown)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 07-1665  
 DESIGNED: Jan 2023  
 SEALED: 3/10/2023  
 REVISED:

Final Design  
 Electrical Detail - Sheet 1 of 4

Electrical and Programming Details For: SR 2817 (Barnes Street) at US 29 SB Ramps

Prepared for the Offices of:

Division 7 Rockingham County Reidsville

PLAN DATE: January 2023 REVIEWED BY: H M Surti

PREPARED BY: A Ravipati REVIEWED BY:

REVISIONS	INIT.	DATE

DocuSigned by: Hemang M. Surti 3/10/2023

750 N. Greenfield Pkwy, Garner, NC 27529

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL:

SIG. INVENTORY NO. 07-1665