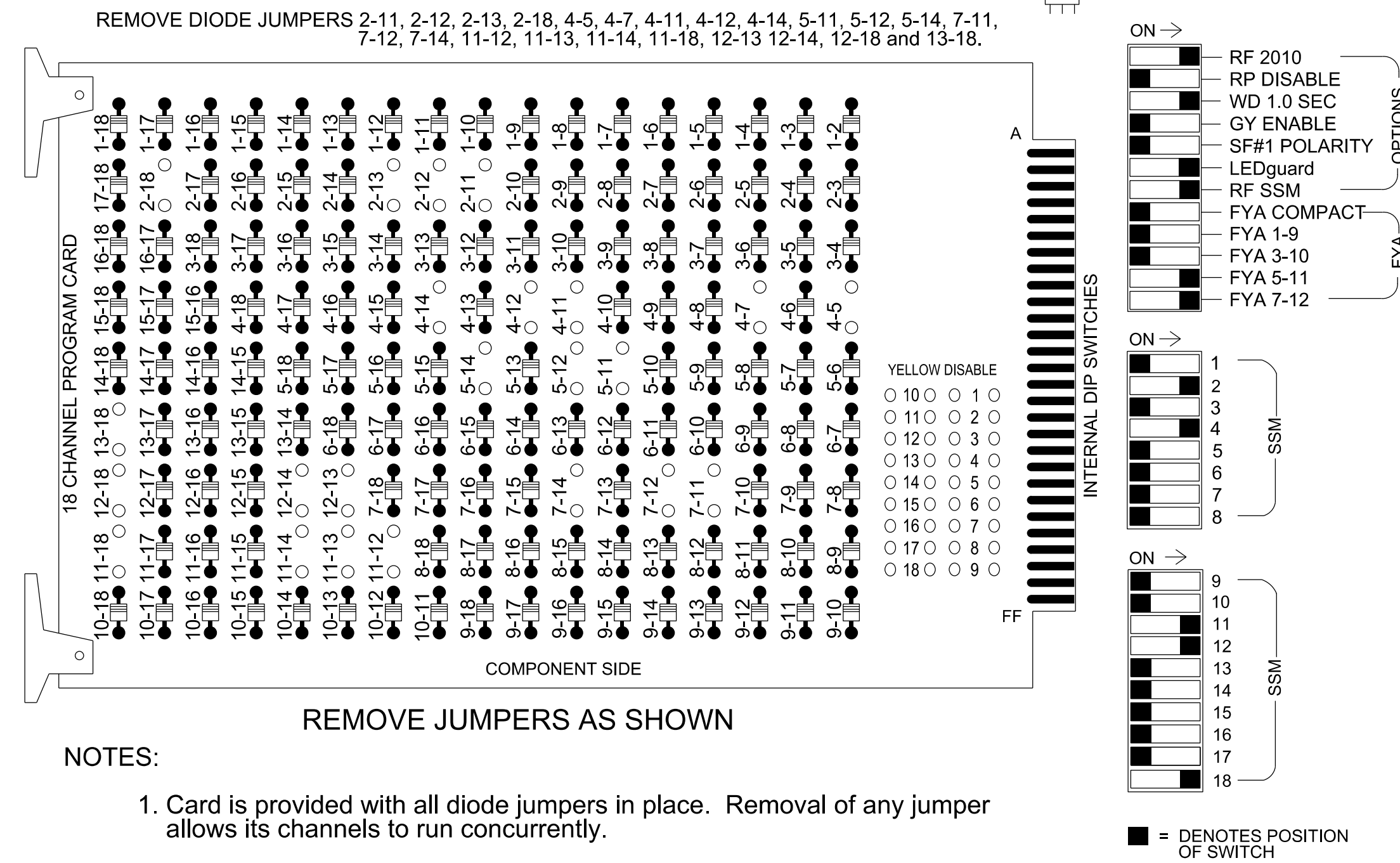


18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(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.
- Program phases 4 and 7 for Dual Entry.
- Program controller to start up in phase 2 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 Wilkesboro 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.....S2,S3,S5,S6,S7,S10,AUX S4,AUX S5, AUX S6
 Phases Used.....2, 2PED, 4, 4PED, 7
 Overlap "1".....NOT USED
 Overlap "2".....NOT USED
 Overlap "3".....*
 Overlap "4".....*
 Overlap "6".....*
 Overlap "7".....*

*See overlap programming detail on sheet 2.

SIGNAL HEAD HOOK-UP CHART

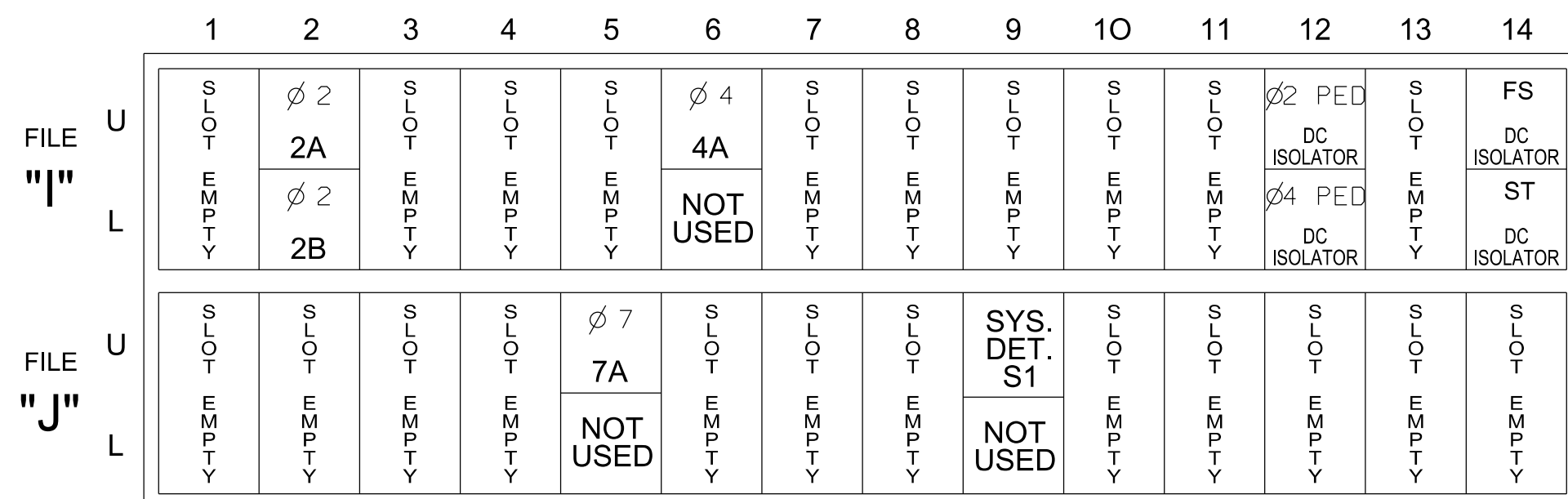
LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18
PHASE	1	2	2 PED	3	4	4 PED	OL7	6	6 PED	7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	OL6
SIGNAL HEAD NO.	NU	21,22	P21, P22	NU	41,42	P41, P42	72*	NU	NU	71*	NU	NU	NU	NU	NU	72*	71*	23*
RED		128			101													A104
YELLOW		129					*			*								
GREEN																		
RED ARROW																		A114 A101
YELLOW ARROW					102													A115 A102 A105
FLASHING YELLOW ARROW																		A116 A103 A106
GREEN ARROW		130			103		133			124								
Hand icon				113		104												
Walking person icon				115		106												

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

(front view)



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

FS = FLASH SENSE
 ST = STOP TIME

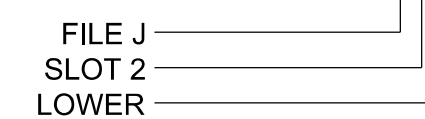
INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	QUEUE	CALL	DELAY DURING GREEN
2A	TB2-5,6	I2U	39	1	2	2				X	X	X	
2B	TB2-7,8	I2L	43	5	3	2				X	X	X	
4A	TB4-9,10	I6U	41	3	8	4	15			X		X	
7A	TB5-5,6	J5U	57	19	21	7	15			X		X	
*S1	TB7-9,10	J9U	59	21	27	SYS						X	
PED PUSH BUTTONS													
P21,P22	TB8-4,6	I12U	67	33		PED 2							
P41,P42	TB8-5,6	I12L	69	35		PED 4							

NOTE:
 INSTALL DC ISOLATOR IN INPUT FILE SLOT I12.

*System detector only. Remove any assigned vehicle phase.

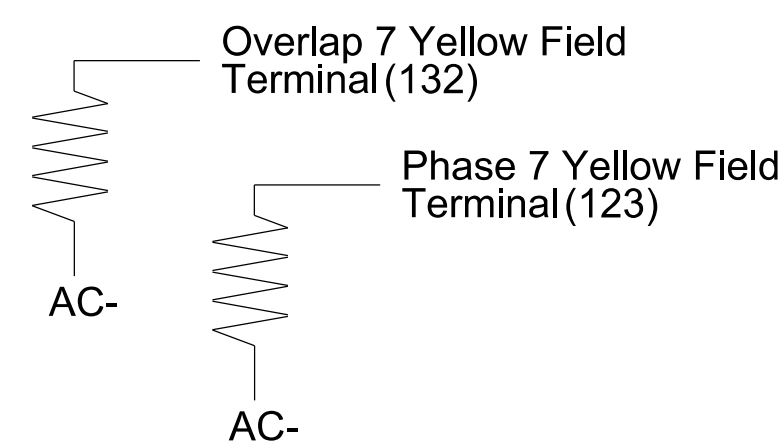
INPUT FILE POSITION LEGEND: J2L



LOAD RESISTOR INSTALLATION DETAIL

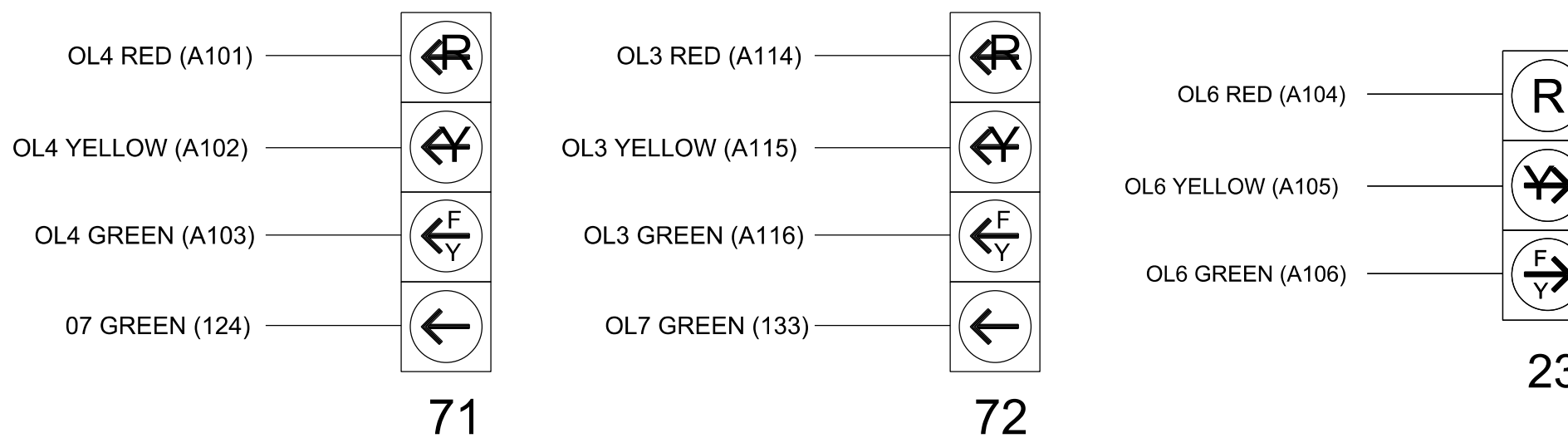
(install resistors as shown)

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



FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 11-1460
 DESIGNED: May 2023
 SEALED: 5/24/2023
 REVISED: N/A



Electrical Detail - Sheet 1 of 2

Electrical and Programming Details For:

US 421-NC 16 at Lowe's Entrance

Division 11 Wilkes County Wilkesboro

Prepared For the Offices of:

Prepared By: M.L. Styles Reviewed By: J. Ma

Reviewed By: S.R. Chiluka

REVISIONS INIT. DATE

DocuSigned by: M.L. Styles 5/24/2023

SIG. INVENTORY NO. 11-1460