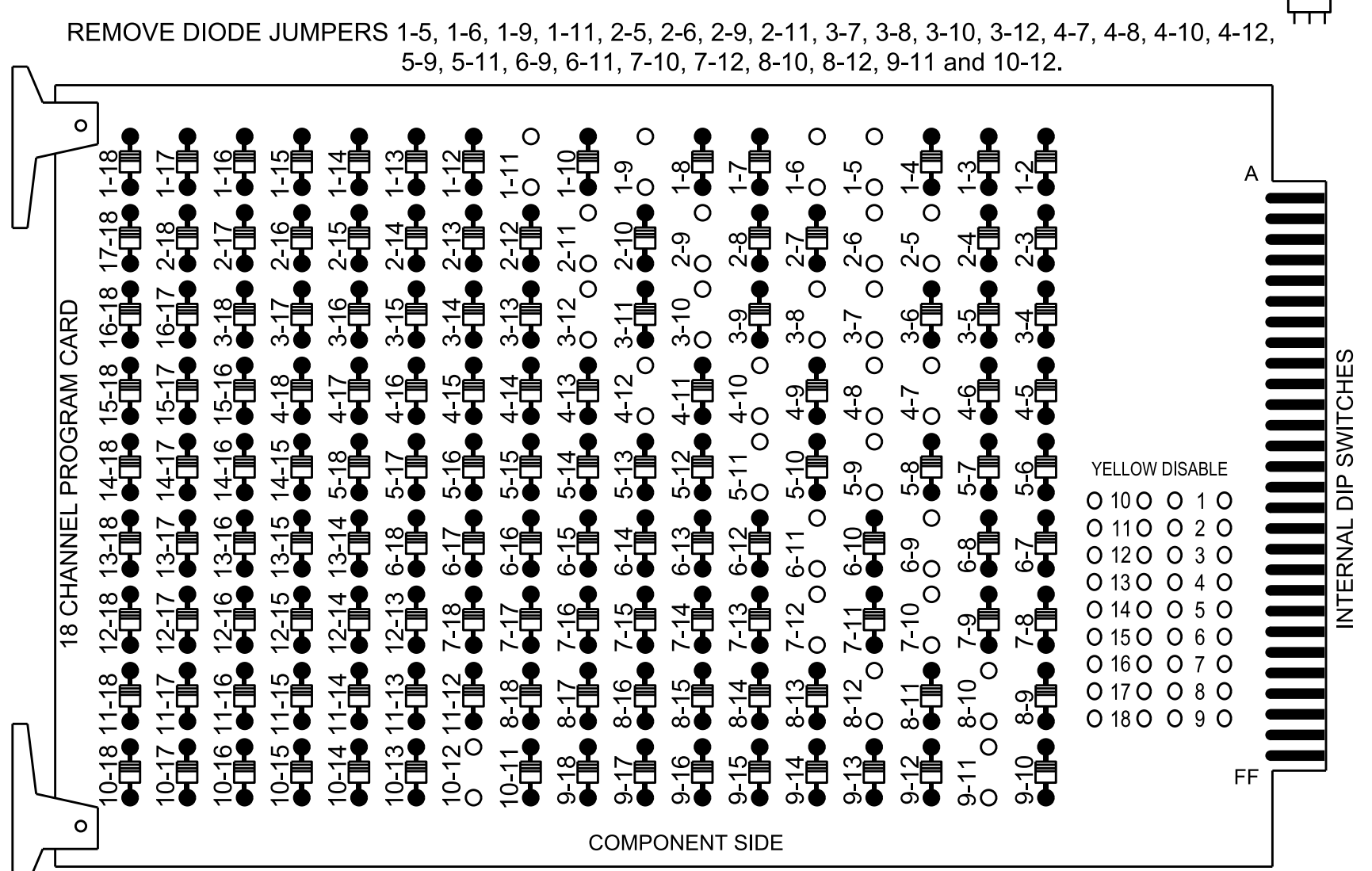


18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



REMOVE JUMPERS 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 8 for Dual Entry.
- 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 (NC 150 at Macy Grove - Road and County Line Road CLS) Signal System #: D09-28_Kernersville.

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, S5, S7, S8, S10, S11, AUX S1, AUX S2, AUX S4, AUX S5
 Phases Used.....1, 2, 3, 4, 5, 6, 7, 8
 Overlap "1".....*
 Overlap "2".....*
 Overlap "3".....*
 Overlap "4".....*
 *See overlap programming detail on sheet 2

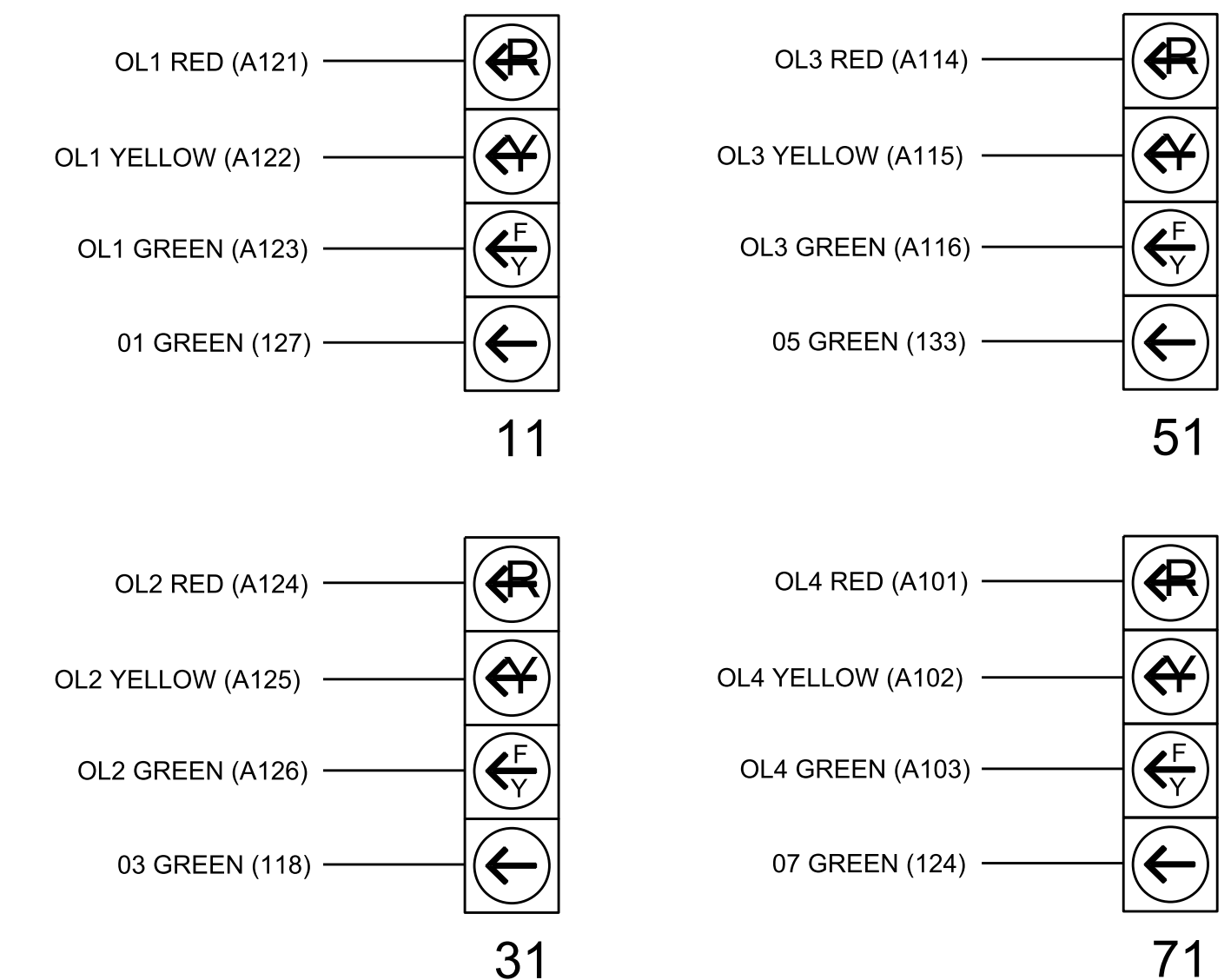
SIGNAL HEAD HOOK-UP CHART

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	5	6	6 PED	7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE	
SIGNAL HEAD NO.	11*	82	21,22 23	22	31*	41,42	NU	42	51*	61,62 63	NU	62	71*	81,82	NU	11*	31*	51*	71*
RED	*	128		*	101			*	134		*	107							
YELLOW		129			102				135			108							
GREEN		130			103				136			109							
RED ARROW													A121	A124				A101	A104
YELLOW ARROW	127			117					132			124		A122	A125			A102	A105
FLASHING YELLOW ARROW													A123	A126				A103	A106
GREEN ARROW	127	127		118	118				133	133		124	124						

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 DETAIL

(wire signal heads as shown)



INPUT FILE POSITION LAYOUT

(front view)

FILE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
FILE "I"	∅ 1 1A	∅ 1 1B	∅ 2 2A	∅ 3 3A	∅ 4 4A	∅ 4 4B	∅ 4 4C	∅ 4 4D	∅ 4 4E	∅ 4 4F	∅ 4 4G	∅ 4 4H	∅ 4 4I	∅ 4 4J	FS DC ISOLATOR ST DC ISOLATOR
FILE "J"	∅ 5 5A	∅ 5 5B	∅ 6 6A	∅ 7 7A	∅ 8 8A	∅ 8 8B	∅ 8 8C	∅ 8 8D	∅ 8 8E	∅ 8 8F	∅ 8 8G	∅ 8 8H	∅ 8 8I	∅ 8 8J	

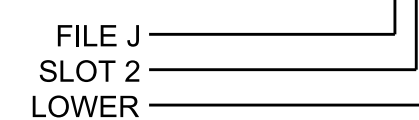
EX.: 1A, 2A, ETC. = LOOP NO.'S

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	I1U	56	18	1	1	15		X		X	
1B	TB2-5,6	I2U	39	1	2	1	15		X		X	X
1C	TB2-7,8	I2L	43	5	3	1	15		X		X	
2A	TB2-9,10	I3U	63	29	4	2			X	X	X	
3A	TB4-5,6	I5U	58	20	7	3	15		X		X	
4A	TB4-9,10	I6U	41	3	8	4			X		X	
4B	TB4-11,12	I6L	45	7	9	4	5	2.0	X		X	X
4C	TB6-1,2	I7U	65	31	10	4			X		X	
5A	TB3-1,2	J1U	55	17	15	5	15		X		X	
5B	TB3-5,6	J2U	40	2	16	5	15		X		X	
5C	TB3-7,8	J2L	44	6	17	5	15		X		X	
6A	TB3-9,10	J3U	64	30	18	6			X	X	X	
7A	TB5-5,6	J5U	57	19	21	7	15		X		X	
8A	TB5-9,10	J6U	42	4	22	8	5	2.0	X		X	X
8B	TB5-11,12	J6L	46	8	23	8			X		X	

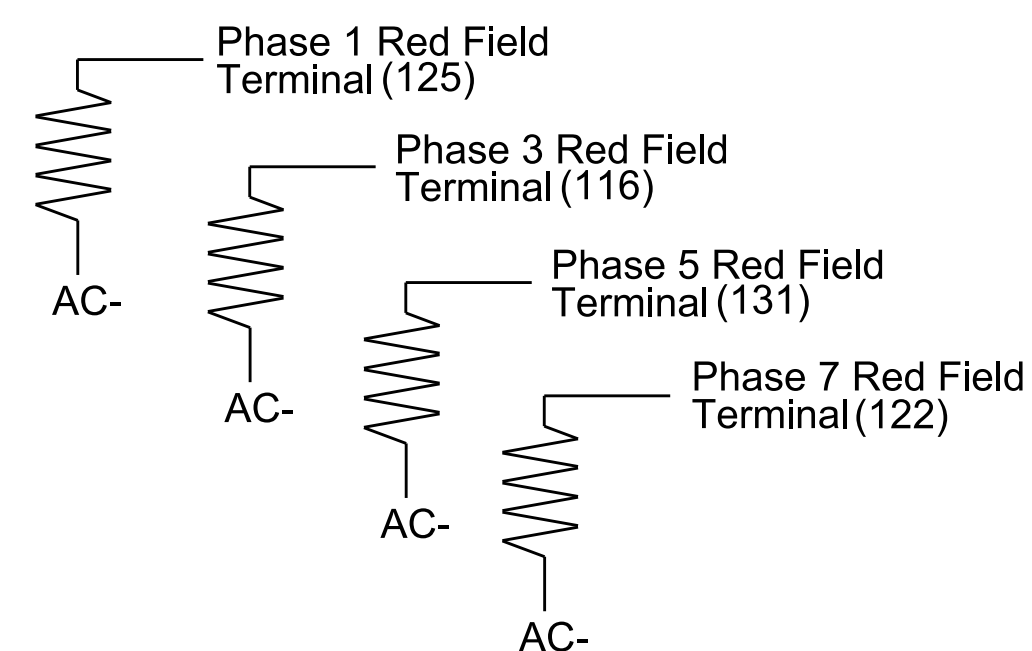
INPUT FILE POSITION LEGEND: J2L



LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)

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



Electrical Detail - Sheet 1 of 3

Prepared in the Offices of:

 NC 150/ SR 4315 (N. Main St.)
 at
 NC 150 (Macy Grove Road)
 Division 9 Forsyth County Kernersville
 PLAN DATE: July 2023 REVIEWED BY:
 PREPARED BY: James Peterson REVIEWED BY:
 REVISIONS INIT. DATE
 DocuSigned by: Ryan W. Hough 08/14/2023
 SEAL 036833
 DATE
 SIG. INVENTORY NO. 09-1128

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

11-AUG-2023 07:56 S:\IT\565\JK\15_Sig\01a\Workgroups\519_Mon\Peter\scm\031128_sm.dwg e:\xxx.dgn J.Peter