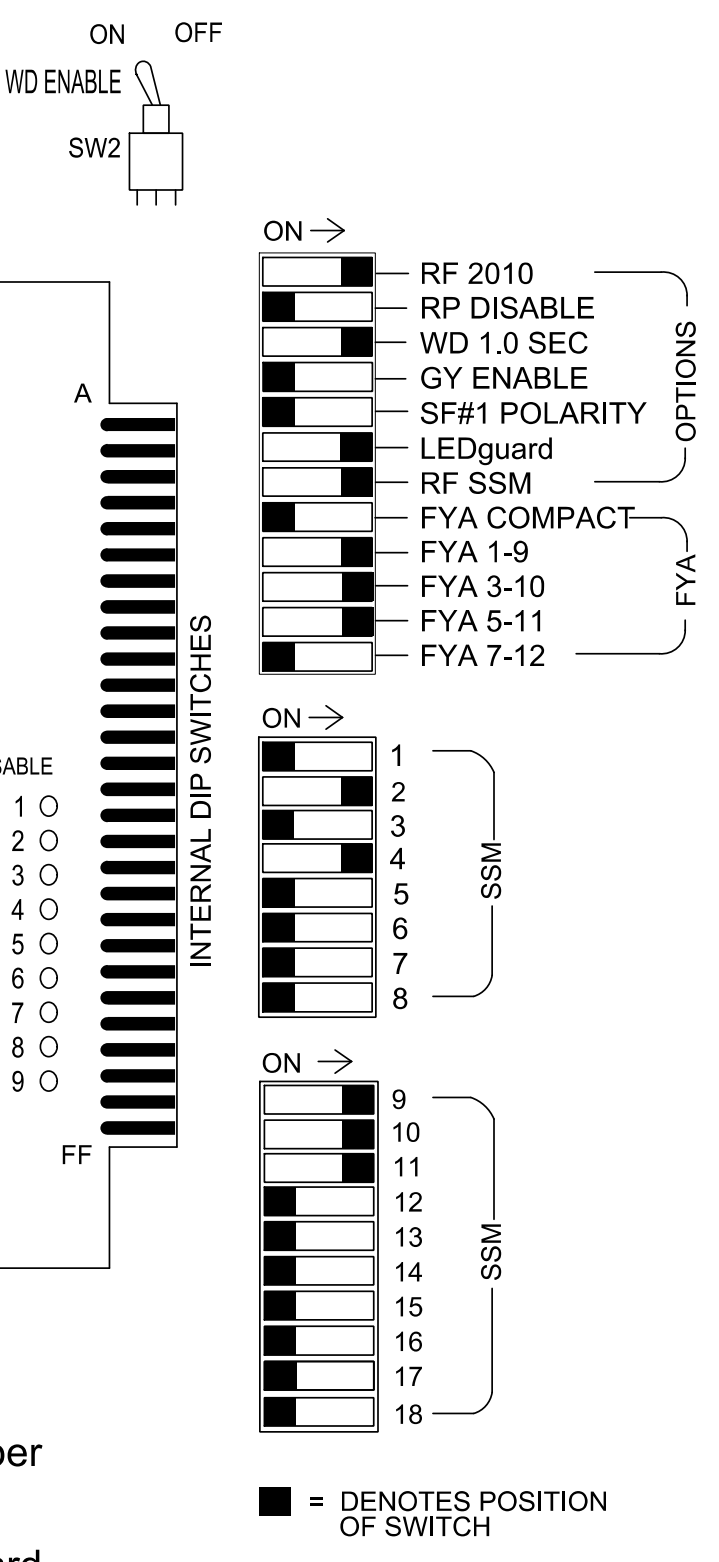
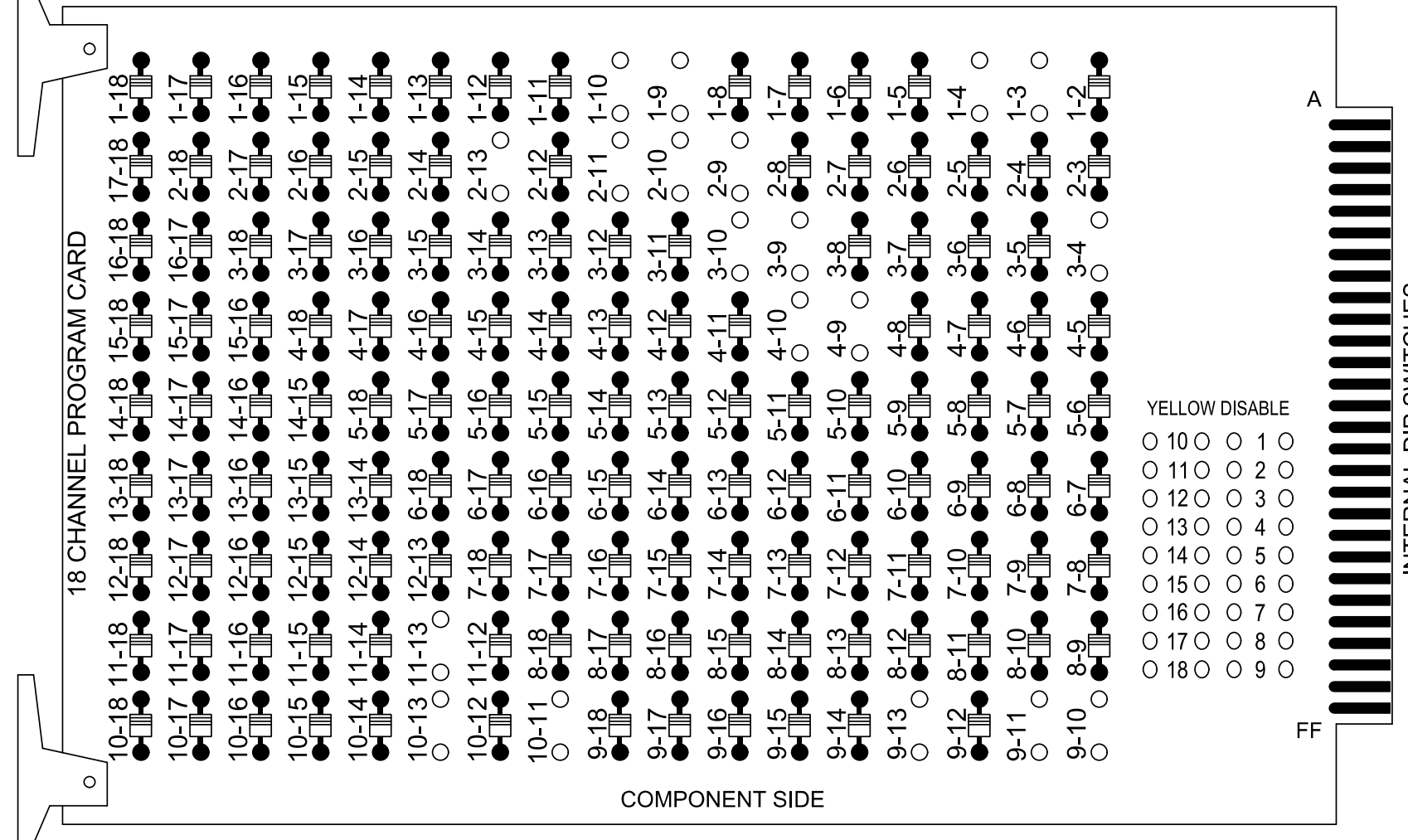


18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 1-3, 1-4, 1-9, 1-10, 2-9, 2-10, 2-11, 2-13, 3-4, 3-9, 3-10, 4-9, 4-10, 9-10, 9-11, 9-13, 10-11, 10-13 and 11-13



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 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.

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, S3, S4, S5, AUX S1, AUX S2, AUX S4

Phases Used.....2, 4, 7**
 Overlap "1".....*
 Overlap "2".....*
 Overlap "3".....*
 Overlap "4".....NOT USED
 Overlap "5".....NOT USED
 Overlap "6".....NOT USED
 Overlap "7".....*
 Overlap "8".....*

*See overlap programming detail on sheet 2
 ** For Timing purposes only

SIGNAL HEAD HOOK-UP CHART

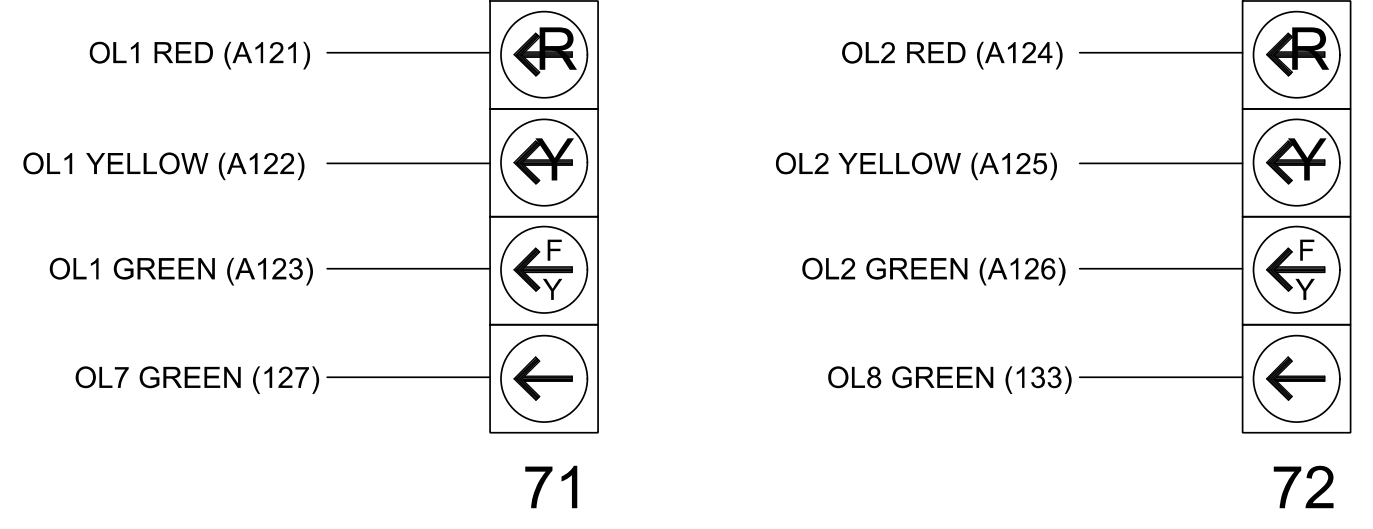
LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18
PHASE	OL7	2	2 PED	OL8	4	4 PED	5	6	6 PED	7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	71*	21	22	P21, P22	72*	41, 42, 43	NU	NU	NU	NU	NC	NU	71*	72*	NU	23*	NU	NU
RED		128	128			101												A114
YELLOW	*	129	129		*													
GREEN			130															
RED ARROW													A121	A124				
YELLOW ARROW						102							A122	A125		A115		
FLASHING YELLOW ARROW													A123	A126		A116		
GREEN ARROW	127	130				133	103											
Hand								113										
Walker																		115

NU = Not Used
 NC= No Connection

* Denotes install load resistor. See load resistor installation detail this sheet.
 ** See pictorial of head wiring in detail this sheet.

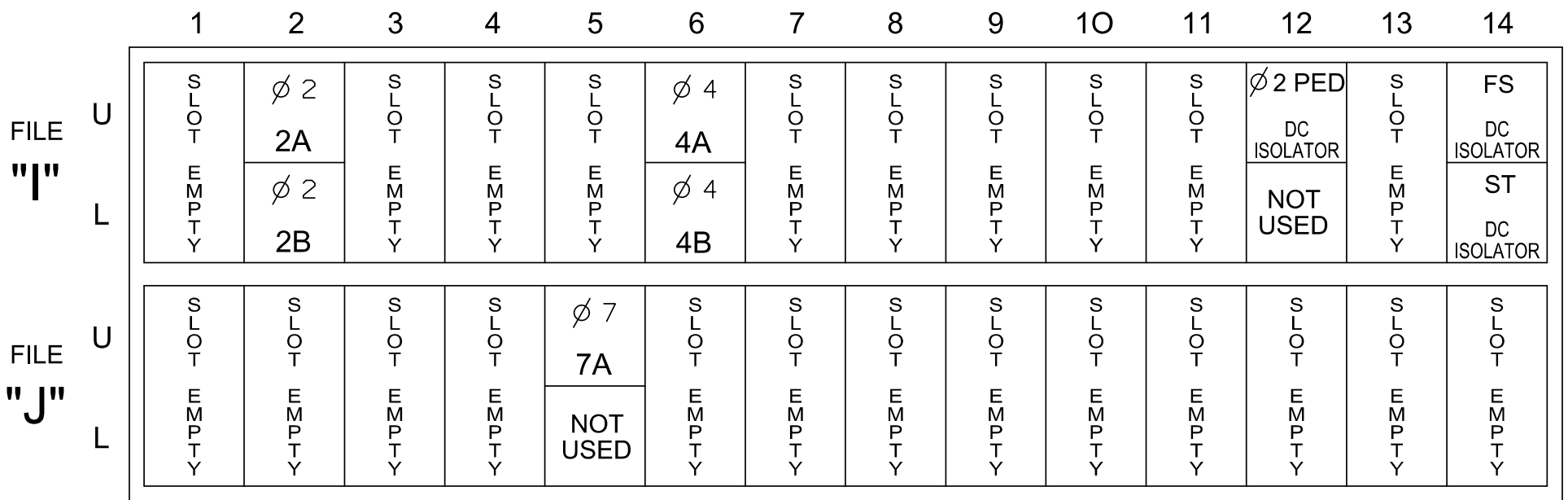
FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



INPUT FILE POSITION LAYOUT

(front view)



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

FS = FLASH SENSE
 ST = STOP TIME

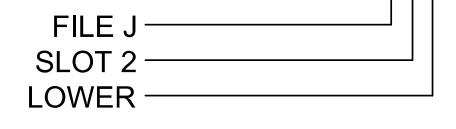
INPUT FILE CONNECTION & PROGRAMMING CHART

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
2A	TB2-5,6	I2U	39	1	2	2				X	X	
2B	TB2-7,8	I2L	43	5	3	2				X	X	
4A	TB4-9,10	I6U	41	3	8	4	15.0			X		
4B	TB4-11,12	I6L	45	7	9	4	15.0			X		
7A	TB5-5,6	J5U	57	19	21*	7	15.0			X		
PED PUSH BUTTONS												
P21,P22,P23	TB8-4,6	I12U	67	33	2	PED 2						

NOTE: INSTALL DC ISOLATOR IN INPUT FILE SLOT I12.

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

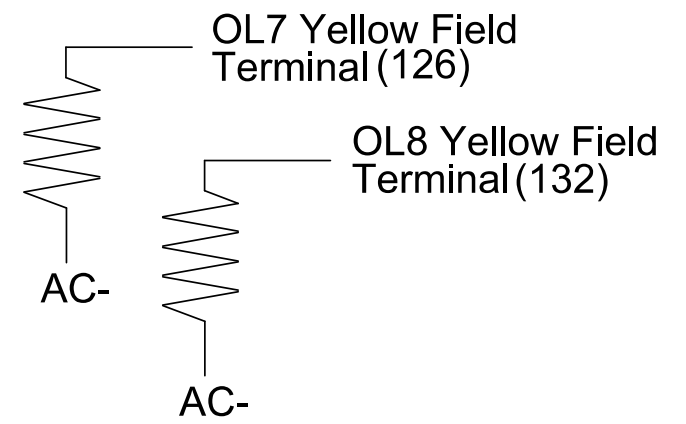
INPUT FILE POSITION LEGEND: J2L



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)



COUNTDOWN PEDESTRIAN SIGNAL OPERATION

Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

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) 671-2000

US 15-501 NB
 at
 SR 2700 (Chatham Park Way)

Division 8 Chatham County Pittsboro

PLAN DATE: April 2024 REVIEWED BY: KP Baumann

PREPARED BY: SP Pennington REVIEWED BY:

REVISIONS	INIT.	DATE

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

Designed by: DATE: 12/12/2024

SIG. INVENTORY NO. 08-0522

12/11/2024 3:44:19 PM susan.pennington k:\RAL_TPTD\SIGNALS\01036584_R-5930_N_CPMS4 - Signal_Design\5.1_08-0522_2024e.dgn