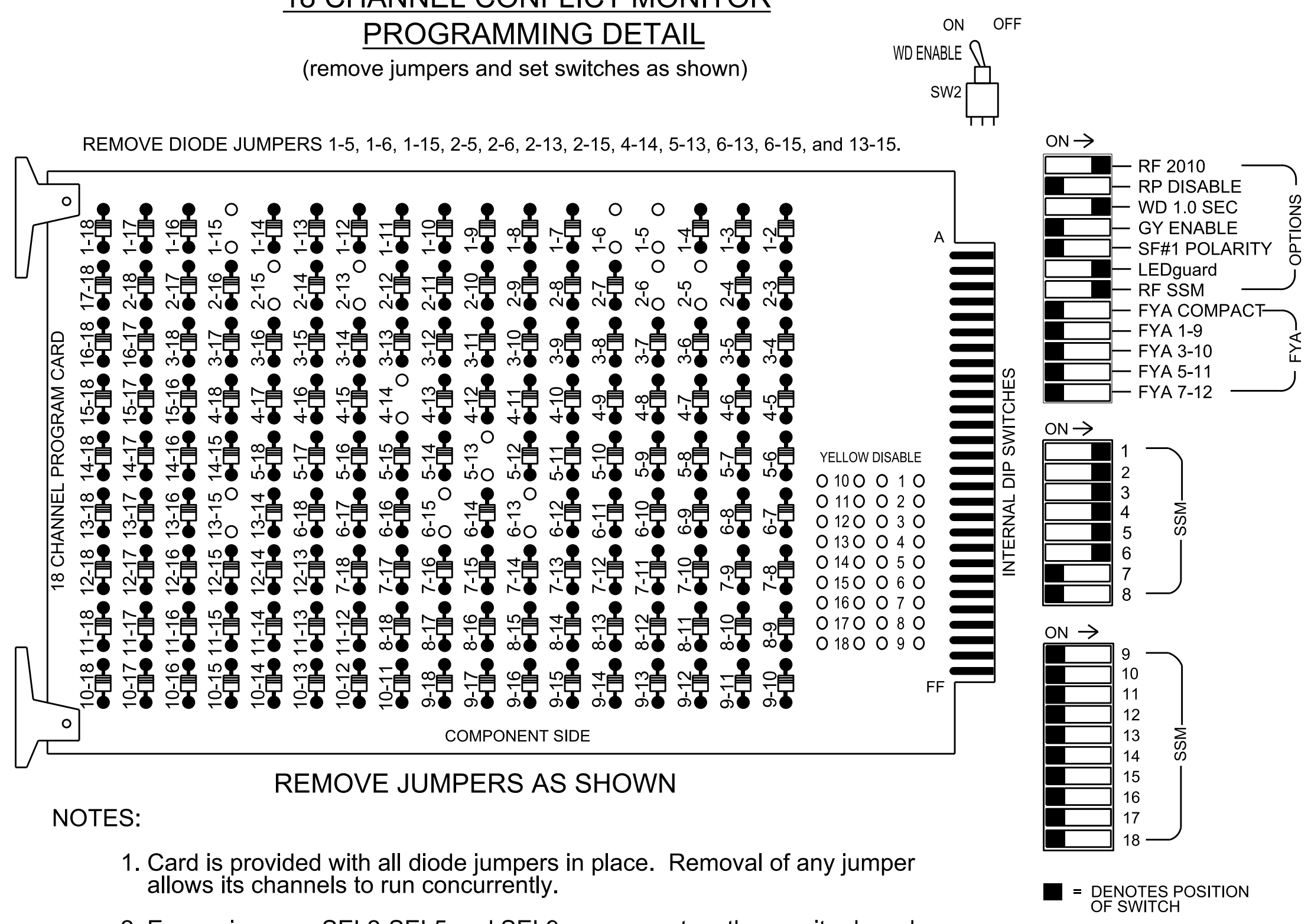


18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL
(remove jumpers and set switches as shown)



- 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 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.

EQUIPMENT INFORMATION

Controller.....2070LX
 Cabinet.....332 w/ Aux
 Software.....Q-Free MAXTIME
 Cabinet Mount.....18 With Aux. Output File
 Load Switches Used.....S1, S2, S3, S4,
 S5, S6, S7, S8, S9
 Phases Used.....1, 2, 2PED, 3, 4,
 4PED, 5, 6, 6PED
 Overlaps.....NONE

COUNTDOWN PEDESTRIAN SIGNAL OPERATION

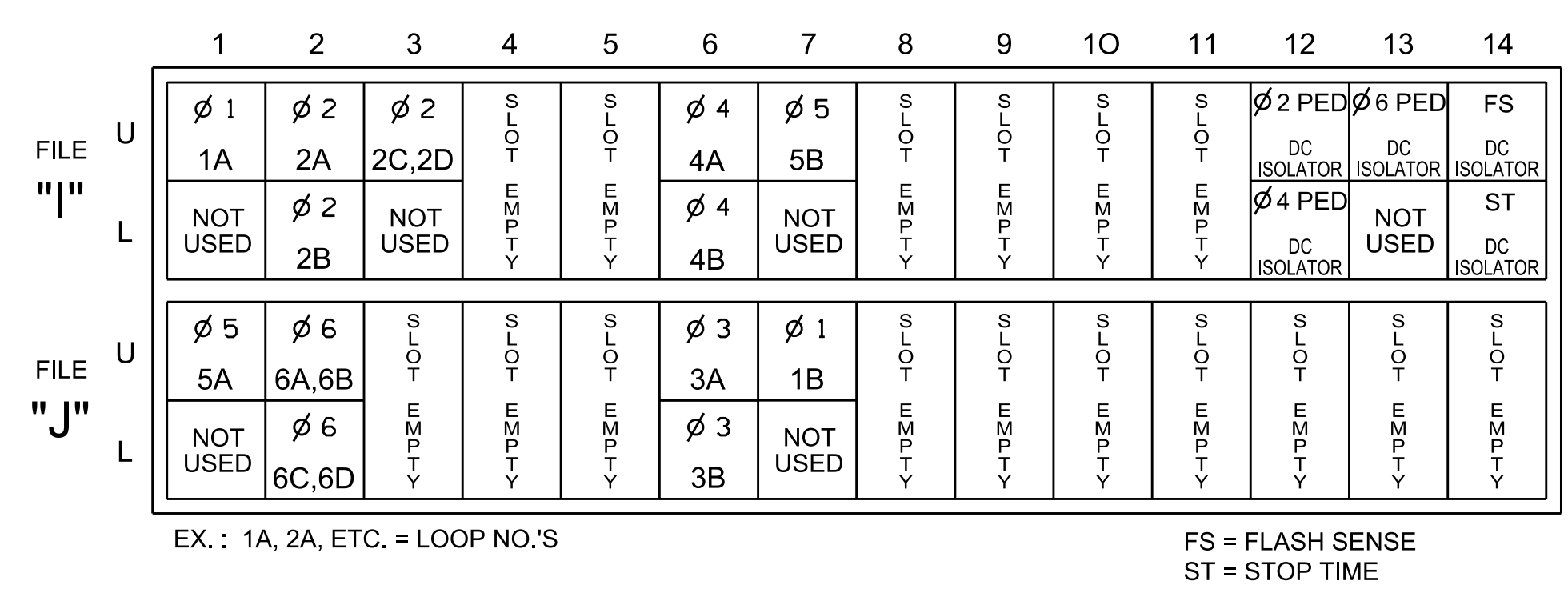
Countdown Ped Signals are required to display timing only during Ped Clearance Interval. Consult Ped Signal Module user's manual for instructions on selecting this feature.

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	33	21,22	P21, P22	31	32	33,34	41	41,42	P41, P42	42	51	61,62	P61, P62	NU	NU	NU	NU
RED		128		116	116	101	101						134					
YELLOW		129		117	117	102	102						135					
GREEN		130		118	118	103	103						136					
RED ARROW	125			116								131						
YELLOW ARROW	126	126		117						132	132							
GREEN ARROW	127	127		118	118	103				133	133							
Hand				113						104								119
Walking				115						106								121

NU = Not Used

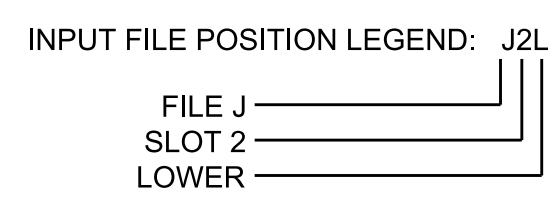
INPUT FILE POSITION LAYOUT
(front view)



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			X		X	
1B	TB7-1,2	J7U	66	32	24	1	15		X		X	
2A	TB2-5,6	I2U	39	1	2	2		2	X		X	
2B	TB2-7,8	I2L	43	5	3	2		2	X		X	
2C,2D	TB2-9,10	I3U	63	29	4	2			X		X	
3A	TB5-9,10	J6U	42	4	22	3			X		X	
3B	TB5-11,12	J6L	46	8	23	3			X		X	
4A	TB4-9,10	I6U	41	3	8	4			X		X	
4B	TB4-11,12	I6L	45	7	9	4			X		X	
5A	TB3-1,2	J1U	55	17	15	5			X		X	
5B	TB6-1,2	I7U	65	31	10	5	15		X		X	
6A,6B	TB3-5,6	J2U	40	2	16	6		2	X		X	
6C,6D	TB3-7,8	J2L	44	6	17	6			X		X	
PED PUSH BUTTONS												
P21,P22	TB8-4,6	I12U	67	33	2	PED 2						
P41,P42	TB8-5,6	I12L	69	35	4	PED 4						
P61,P62	TB8-7,9	I13U	68	34	6	PED 6						

NOTE: INSTALL DC ISOLATORS IN INPUT FILE SLOTS I12 AND I13.



THIS PLAN SUPERSEDES THE PLAN SIGNED AND SEALED ON 9/22/2021.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 11-0082
 DESIGNED: August 2023
 SEALED: 12/4/2023
 REVISED:

Electrical Detail - Final Design

Prepared in the Offices of:

 750 N. Greenfield Pkwy, Garner, NC 27529

US 321 (Hickory Blvd.)
 at
 SR 1109 (Pinewood Rd.)

Division 11 Caldwell County Granite Falls

PLAN DATE: November 2023 REVIEWED BY: D.T.J.

PREPARED BY: D.J. Craddock REVIEWED BY:

REVISIONS: INIT. DATE

Seal: D. Todd Joyce, Engineer, Seal 031001, 12/05/2023

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SIG. INVENTORY NO. 11-0082

09-DEC-2023 11:31 S:\ITS\GIS\MTS_Signal\Workgroups\451g_Mon#Projects From Signal Design\Mch1\ve Projects\Crdock\2_Pend\mg#11-0208_A_0082_46971_L_#110082_sm.ele_202311.dgn d:\craddock1