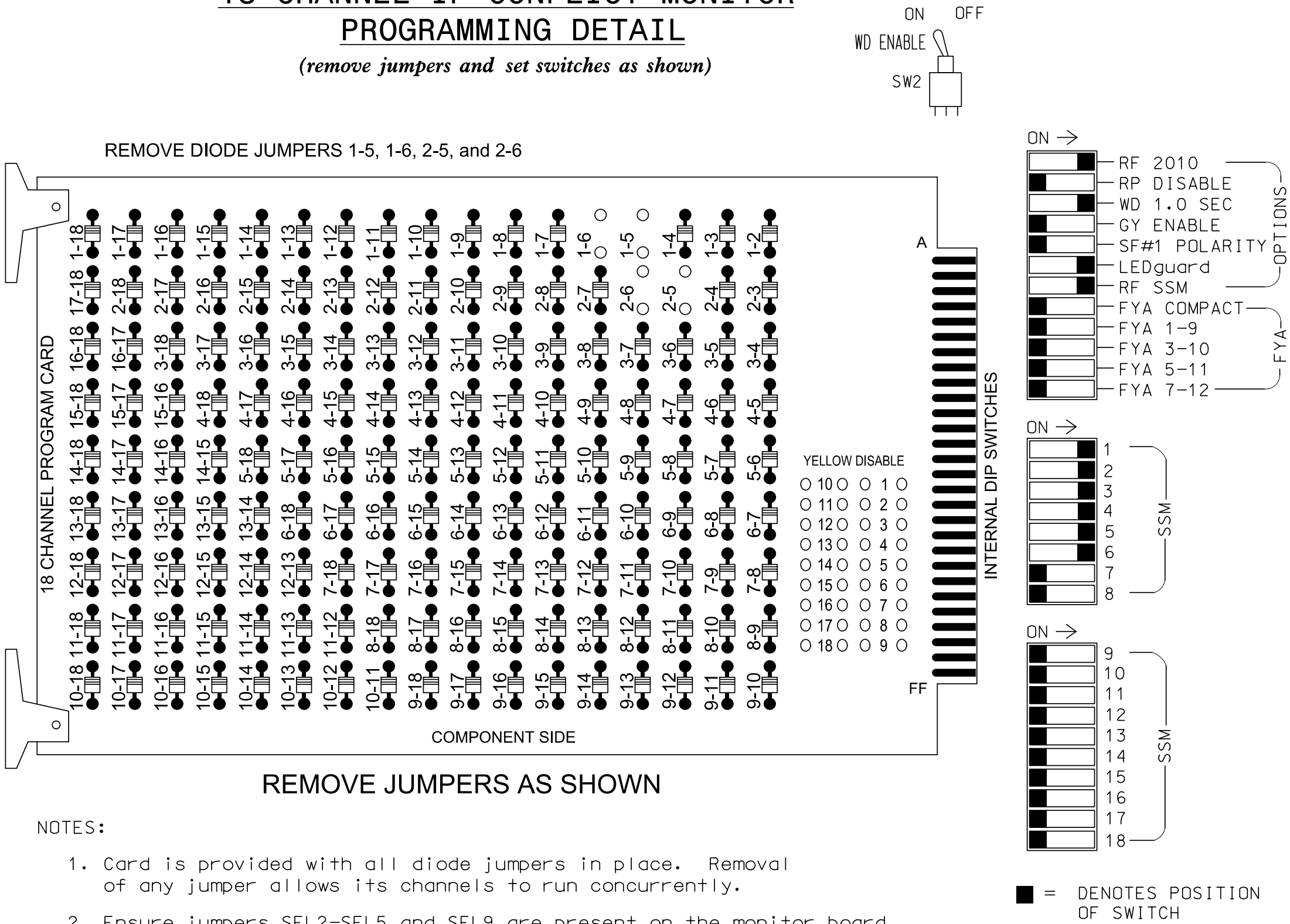


18 CHANNEL IP CONFLICT MONITOR
PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

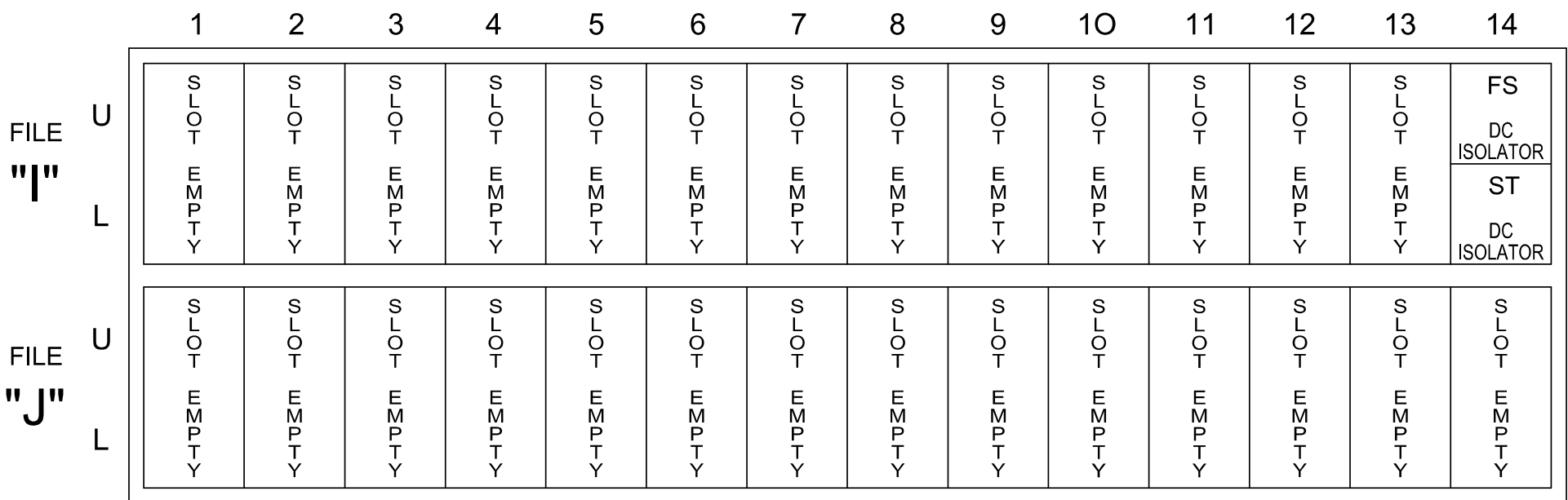


NOTES:

- 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 Red Enable is active at all times during normal operation.
- Integrate monitor with Ethernet network in cabinet.

INPUT FILE POSITION LAYOUT

(front view)



SPECIAL DETECTOR NOTE

Install a video detection system for vehicle detection. Perform installation according to manufacturer's directions and NCDOT engineer -approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans.

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 Plans.
- Program controller to start up in phase 2 Green No Walk and phase 6 Green No Walk.
- The cabinet and controller are part of the Concord Central 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.....S1,S2,S4,S5,S7,S8
PHASES USED.....1,2,3,4,5,6
OVERLAP "1".....NOT USED
OVERLAP "2".....NOT USED
OVERLAP "3".....NOT USED
OVERLAP "4".....NOT USED

OUTPUT CHANNEL CONFIGURATION

Front Panel
Main Menu >Controller >More>Channels>Channels Config

Web Interface
Home >Controller >Advanced IO>Channels>Channel Configuration
Channel Configuration

Channel	Control Type	Control Source	Flash Yellow	Flash Red	Flash Alt	MMU Channel
1	Phase Vehicle	1		X	X	1
2	Phase Vehicle	2		X		2
3	Phase Vehicle	3		X	X	3
4	Phase Vehicle	4		X		4
5	Phase Vehicle	5		X		5
6	Phase Vehicle	6		X	X	6
7	Phase Vehicle	7		X		7
8	Phase Vehicle	8		X	X	8
9	Overlap	1		X	X	9
10	Overlap	2		X	X	10
11	Overlap	3		X		11
12	Overlap	4		X		12
13	Phase Ped	2				13
14	Phase Ped	4				14
15	Phase Ped	6				15
16	Phase Ped	8				16
17	Overlap	5		X	X	17
18	Overlap	6		X		18

NOTICE: FLASH RED

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	22	31	32	41	42,43,44	62	NU	51	61,62	NU	NU	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											131						
YELLOW ARROW	126			117				102		132								
FLASHING YELLOW ARROW																		
GREEN ARROW	127			118	118		103		103		133							

NU = Not Used

MAXTIME STARTUP AND SOFTWARE FLASH
PROGRAMMING DETAIL

Front Panel
Main Menu >Controller >Unit

Web Interface
Home >Controller >Unit

Modify parameters as shown below and save changes.

Start Up Parameters

StartUp Clearance Hold
6

Unit Flash Parameters

All Red Flash Exit Time
6

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 10-0875T2
DESIGNED: February 2025
SEALED: 08-21-2025
REVISED: N/A

Electrical Detail - Temporary Design 2

ELECTRICAL AND PROGRAMMING DETAILS FOR:		US 29 (Concord Parkway South)		DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	
Prepared for the Offices of:		at		SEAL	
Kimley»Horn		SR 1414 (Rock Hill Church Road) and Honda Cars of Concord		NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 044434	
PLANS PREPARED IN THE OFFICE OF:		Division 10 Cabarrus County Concord		ENGINEER KEVIN P. BAUMANN	
NC License #F-0102		PLAN DATE: February 2025		REVIEWED BY: KP Baumann	
421 Fayetteville Street, Suite 600		PREPARED BY: SP Pennington		REVIEWED BY:	
Raleigh, NC 27601		REVISIONS		INIT. DATE	
(919) 677-2000					
750 N.Greenfield Pkwy, Garner, NC 27529					
				8/21/2025	
				DATE	
				SIC. INVENTORY NO. 10-0875T2	