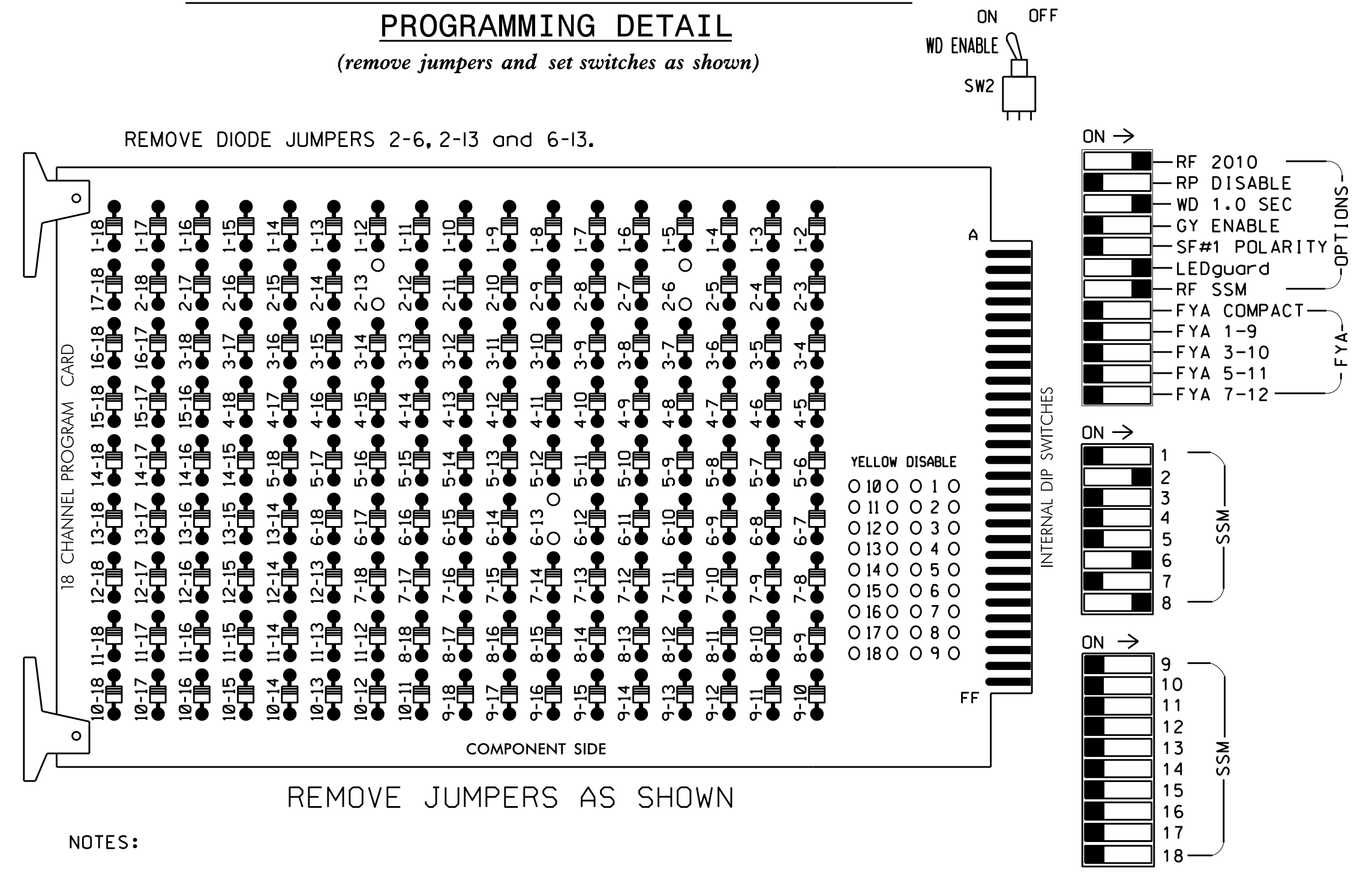


EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL
(remove jumpers and set switches as shown)



- 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.
 - 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. Verify that signal heads flash in accordance with the signal plans.
 - Program controller to Start Up in phases 2 and 6 green.
 - Set power-up flash time to 0 seconds within the controller programming. The conflict monitor will govern startup flash. Ensure STARTUP "RED START" is set to 0 seconds.
 - Enable Simultaneous Gap-Out feature for all phases.
 - Program all timing information into phase banks 1, 2, and 3 unless otherwise noted.
 - Set phase bank 3 maximum limit to 250 seconds for phases used.
 - Ensure start up flash phases are coordinated with flash program block assignments.
 - Program Startup Ped Calls for phase 2.
 - Set the Red Revert interval on the controller to 1 second.
 - This cabinet and controller are part of the Durham Signal System.

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.	NU	22,23	P21, P22	NU	NU	NU	NU	62,63	NU	NU	81,82	NU	NU	NU	NU	NU	NU	NU
RED		128						134			107							
YELLOW		129						135			108							
GREEN		130						136			109							
RED ARROW																		
YELLOW ARROW																		
FLASHING YELLOW ARROW																		
GREEN ARROW																		
Hand icon																		
Person icon																		

NU = Not Used

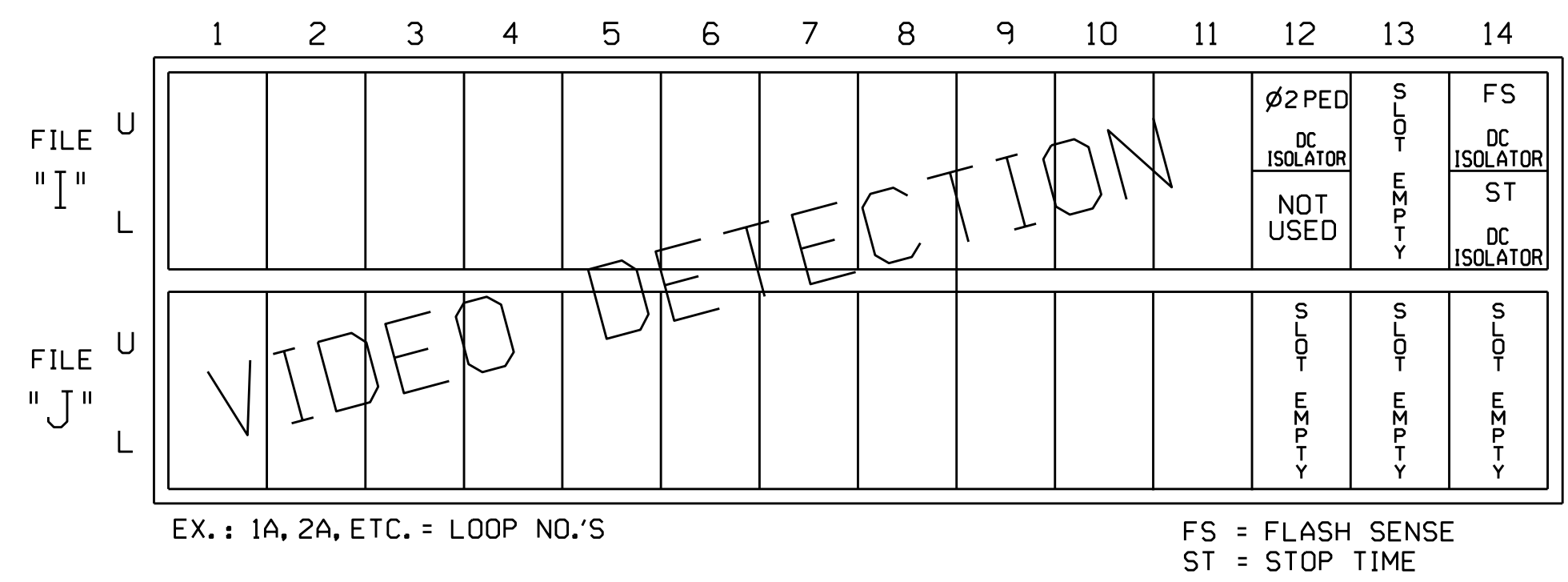
EQUIPMENT INFORMATION

CONTROLLER.....2070E
 CABINET.....332 W/ AUX
 SOFTWARE.....McCain 2033
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX FILE
 LOAD SWITCHES USED.....S2,S3,S8,S11
 PHASES USED.....2,6,8,2 PED
 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.

INPUT FILE POSITION LAYOUT
(front view)



INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	DETECTOR NO.	PIN NO.	ATTRIBUTES	NEMA PHASE
PED PUSH BUTTONS						
P21,P22	TB8-4,6	I12U	25	67	2	2 PED

- INPUT FILE POSITION LEGEND:** J2L
 FILE J
 SLOT 2
 LOWER
- DETECTOR ATTRIBUTES LEGEND:**
 1-FULL TIME DELAY
 2-PED CALL
 3-RESERVED
 4-COUNTING
 5-EXTENSION
 6-TYPE 3
 7-CALLING
 8-ALTERNATE

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-1027T6
 DESIGNED: September 2014
 SEALED: 4-02-15
 REVISED: N/A

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.

Electrical Detail

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Prepared in the Offices of:

 750 N. Greenfield Pkwy, Garner, NC 27529

NC 55 (North Alston Avenue) at US 70 - NC 98 (Holloway Street)

Division 5 Durham County ds Durham

PLAN DATE: November 2014 REVIEWED BY: JTR

PREPARED BY: James Peterson REVIEWED BY:

REVISIONS INIT. DATE

DocuSigned by: John T. Rowe, Jr. 4/2/2015
 SEAL 008453
 JOHN T. ROWE, JR. ENGINEER
 STATE OF NORTH CAROLINA
 SIG. INVENTORY NO. 05-1027T6

31-JAN-2015 14:53 S:\IT\55141\T5 - Signal\work\garner\sig_mob\jpeterson\051027_sm.ele_20150106.dgn J.peterson