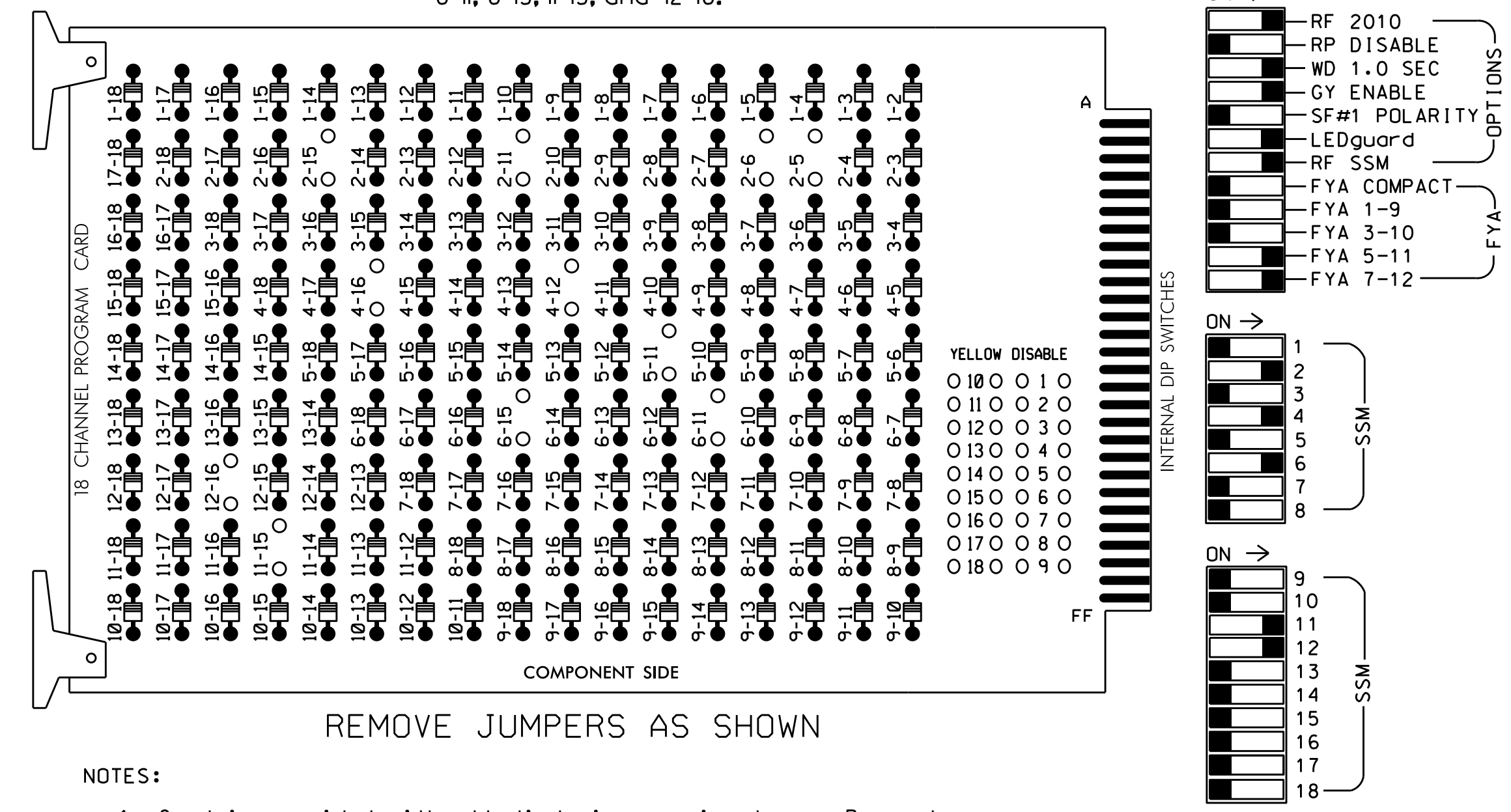


EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 2-5, 2-6, 2-11, 2-15, 4-12, 4-16, 5-11, 6-11, 6-15, 11-15, and 12-16.



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.
- 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.
- Program phases 4 and 8 for Double Entry.
- Ensure start up flash phases are coordinated with flash program block assignments.
- Program Startup Ped Calls for phases 6 and 8.
- Set the Red Revert interval on the controller to 1 second.
- This cabinet and controller are part of the Durham Signal System.

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,S5,S7,S8,S9,S12,
 AUX S4,AUX S5
 PHASES USED.....2,4,5,6,6PED,8PED
 OVERLAP 1.....NOT USED
 OVERLAP 2.....NOT USED
 OVERLAP 3.....NOT *
 OVERLAP 4.....4
 * See FYA PPLT Programming detail on sheet 2.

SIGNAL HEAD HOOK-UP CHART

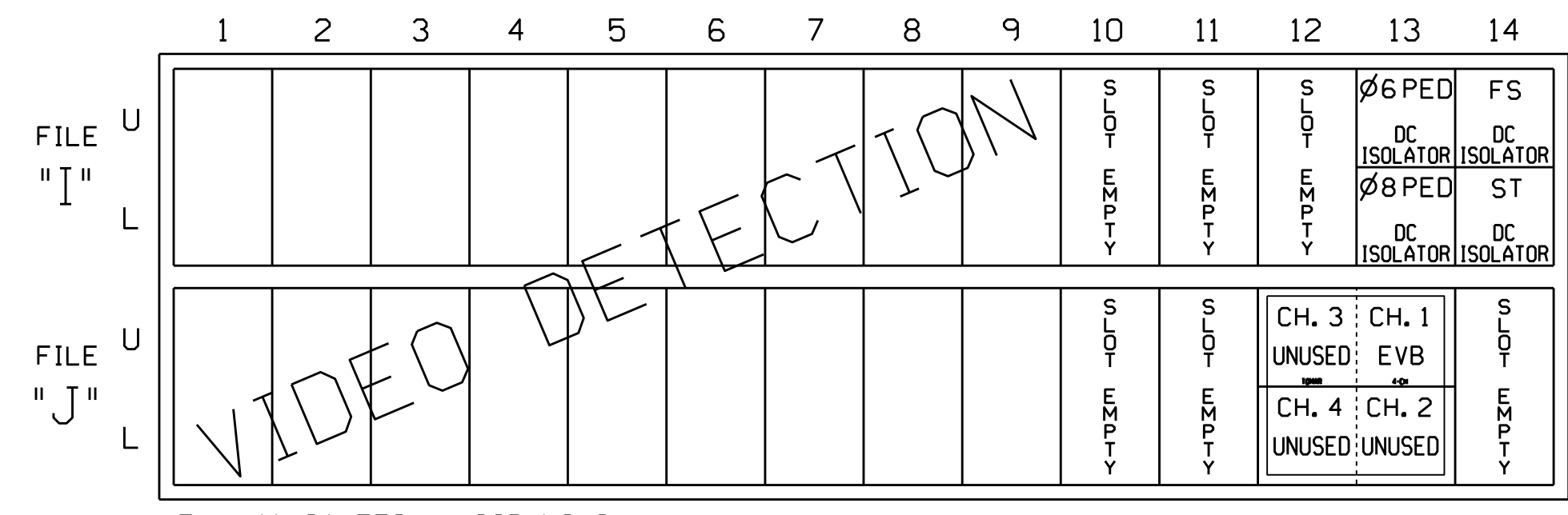
LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	NU	21,22	NU	NU	42,43	NU	43	51*	61,62	P61, P62	NU	NU	NU	NU	NU	51*	41*	NU
RED		128			101				134									
YELLOW		129			102				135									
GREEN		130			103				136									
RED ARROW																A114	A101	
YELLOW ARROW							132									A115	A102	
FLASHING YELLOW ARROW																A116	A103	
GREEN ARROW							133	133										
Hand icon									119			110						
Person icon										121		112						

NU = Not Used

* See pictorial of head wiring in detail below.

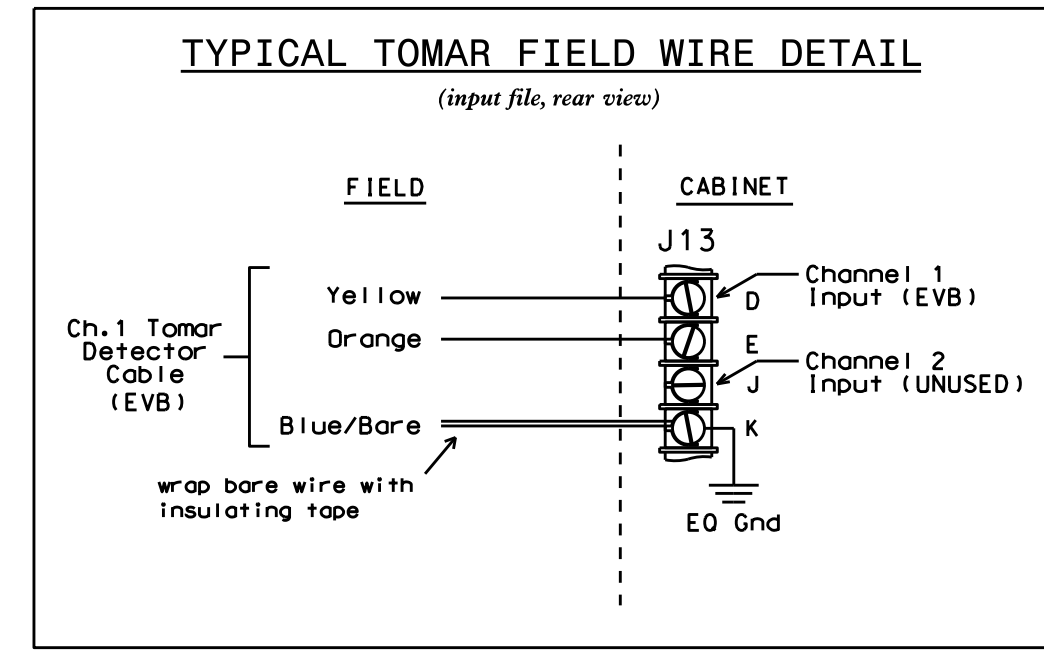
INPUT FILE POSITION LAYOUT

(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.



INPUT FILE CONNECTION & PROGRAMMING CHART

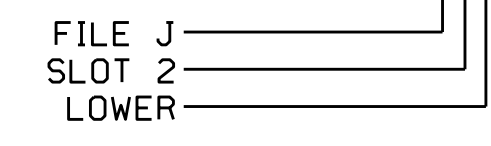
PED PUSH BUTTONS	LOOP TERMINAL	INPUT FILE POS.	DETECTOR NO.	PIN NO.	ATTRIBUTES	NEMA PHASE
P61,P62	TB8-7,9	I13U	26	68	2	6 PED
P81,P82	TB8-8,9	I13L	28	70	2	8 PED

DETECTOR ATTRIBUTES LEGEND:

- FULL TIME DELAY
- PED CALL
- RESERVED
- COUNTING
- EXTENSION
- TYPE 3
- CALLING
- ALTERNATE

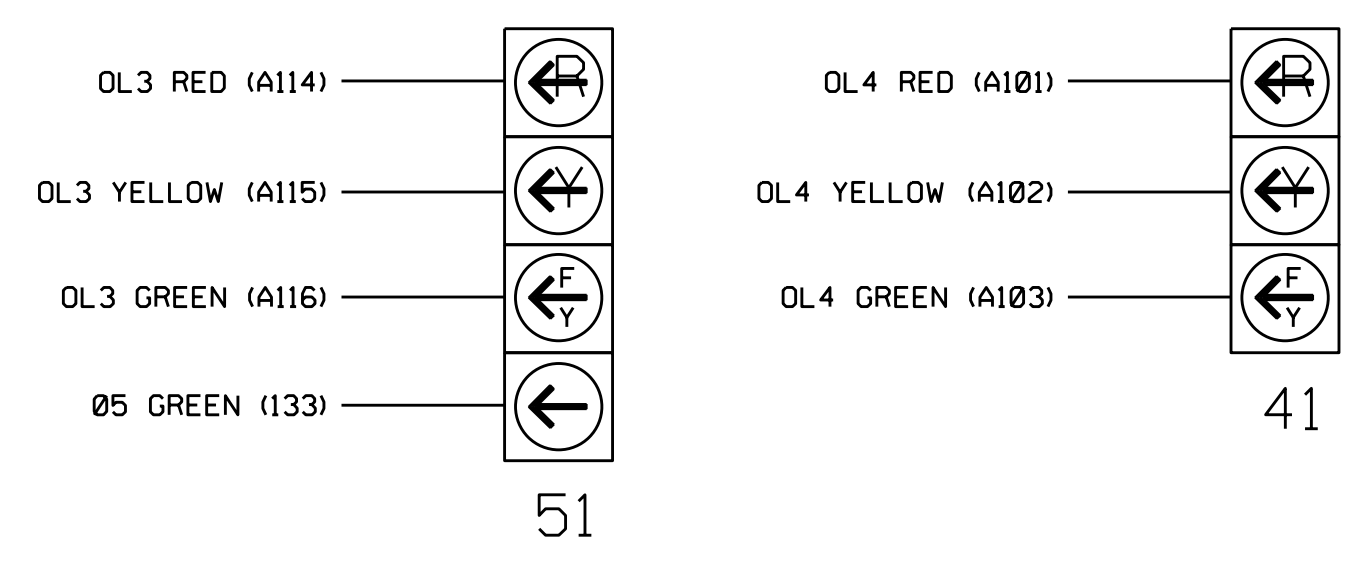
NOTE:
INSTALL DC ISOLATOR IN INPUT FILE SLOT I13.

INPUT FILE POSITION LEGEND: J2L



FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



Electrical Detail - Temporary Design 5 (TMP Phase 2, Steps 1-6) - Sheet 1 of 2

Electrical and Programming Details for: **NC 55 (South Alston Avenue) at NC 147 NB Ramp / Gann Street**

Prepared in the Offices of: **Transportation Mobility and Safety Solutions**

750 N. Greenfield Pkwy, Garner, NC 27529

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-0284T5
 DESIGNED: September 2014
 SEALED: 4/2/15
 REVISED: N/A

Division 5 Durham County
 PLAN DATE: November 2014
 PREPARED BY: S. Armstrong
 REVISIONS: _____ INIT. DATE

SEAL: **JOHN T. ROWE, JR.** ENGINEER
 SEAL 008453
 DocuSigned by: **John T. Rowe, Jr.** 4/2/2015
 S1G. INVENTORY NO. 05-0284T5

27-MAR-2015 09:52
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