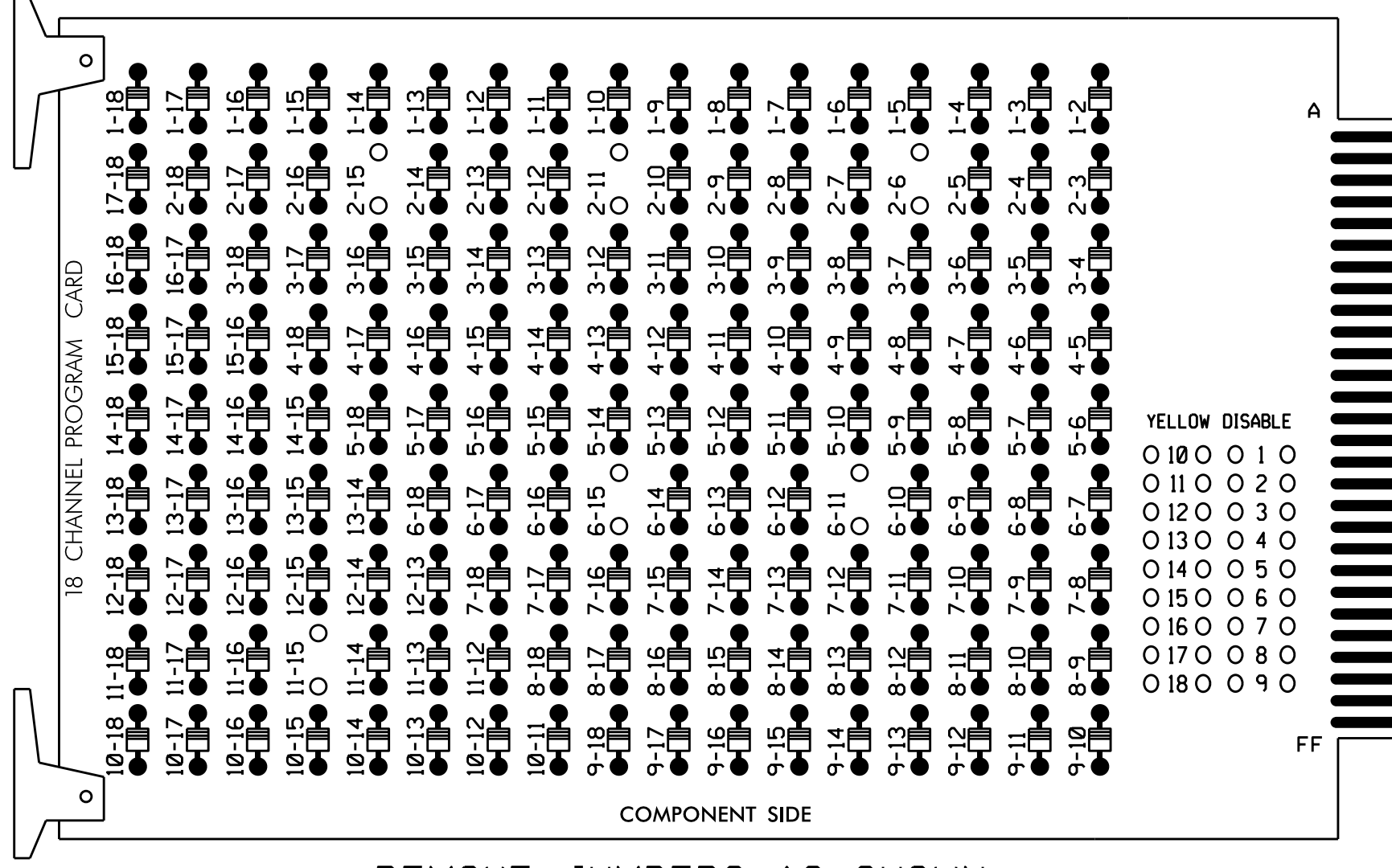
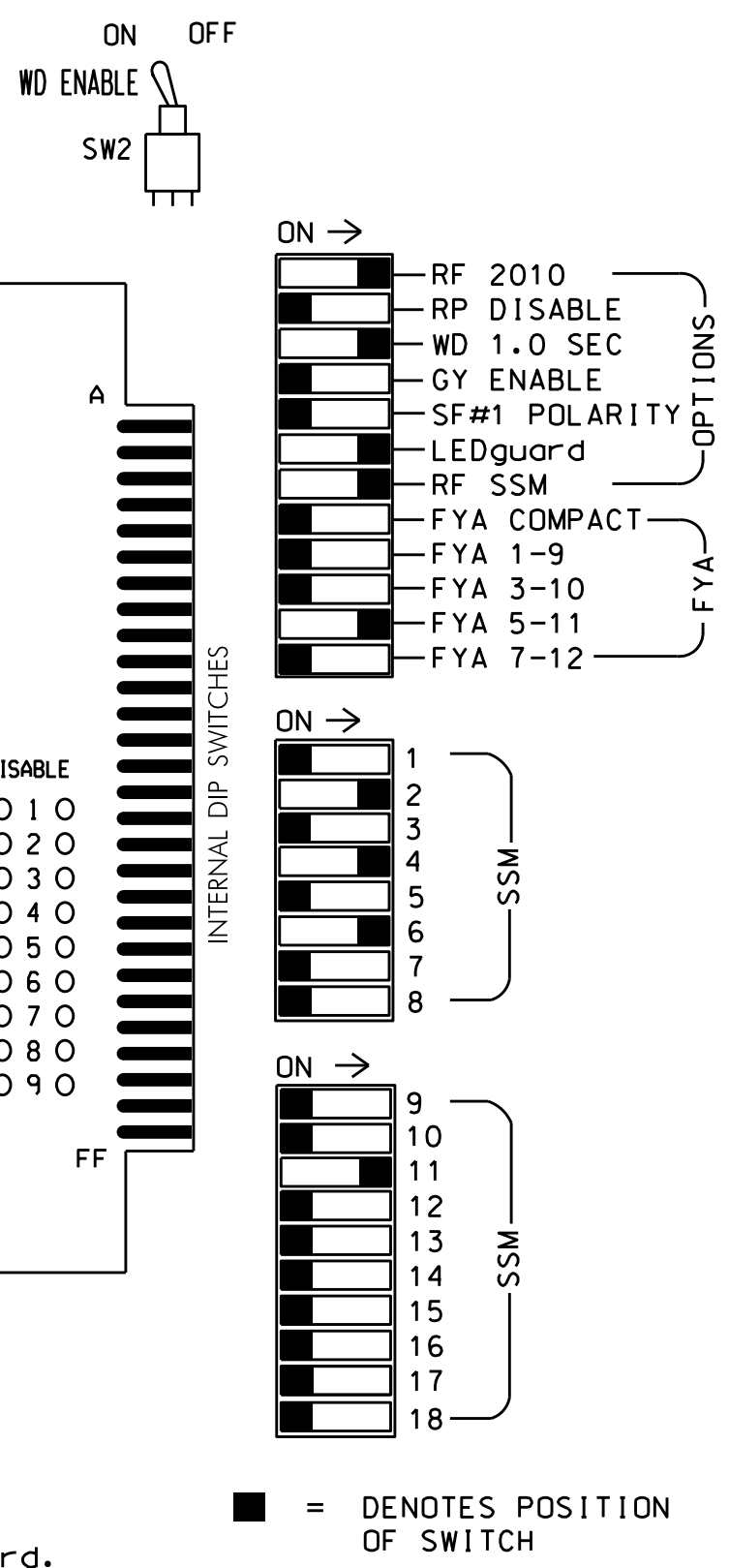


EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL
(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 2-6, 2-11, 2-15, 6-11, 6-15 and 11-15.



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

EQUIPMENT INFORMATION

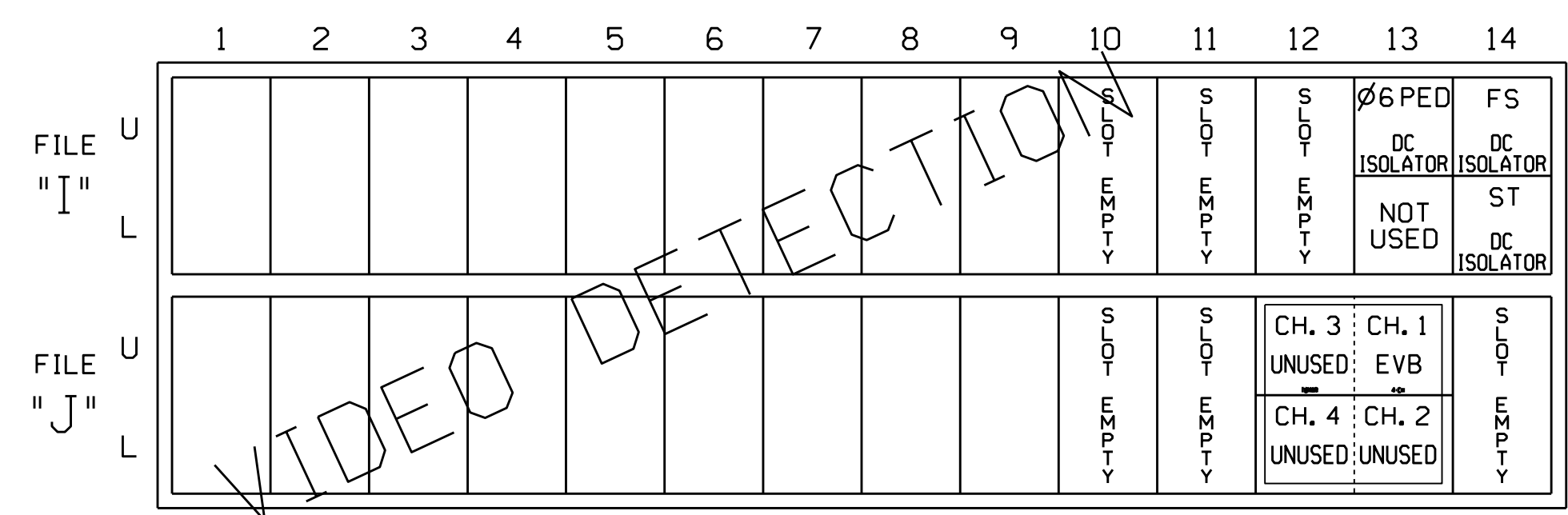
CONTROLLER.....2070E
 CABINET.....332 W/ AUX
 SOFTWARE.....McCain 2033
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX FILE
 LOAD SWITCHES USED.....S2,S5,S8,S9,AUX S4
 PHASES USED.....2,4,6,6 PED
 OVERLAP 1.....NOT USED
 OVERLAP 2.....NOT USED
 OVERLAP 3.....2+6
 OVERLAP 4.....NOT USED

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	
CHU 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	NU	NU	41,42	NU	NU	61,62	P61, P62	NU	NU	NU	NU	NU	NU	21	NU	NU	
RED		128			101			134											
YELLOW		129			102			135											
GREEN		130			103			136											
RED ARROW																		A114	
YELLOW ARROW																			A115
FLASHING YELLOW ARROW																			A116
GREEN ARROW																			
									119										
									121										

NU = Not Used
 * See pictorial of head wiring in detail below.

INPUT FILE POSITION LAYOUT
(front view)



EX.: 1A, 2A, ETC. = LOOP NO.'S
 FS = FLASH SENSE
 ST = STOP TIME
 EVx = EMERGENCY VEHICLE PREEMPT

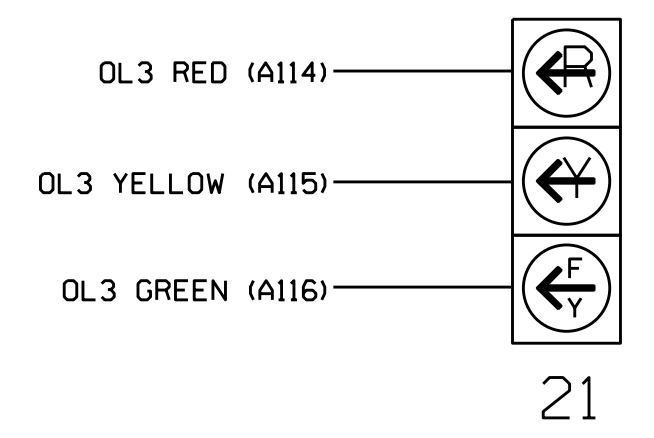
INPUT FILE CONNECTION & PROGRAMMING CHART

PED PUSH BUTTONS	LOOP TERMINAL	INPUT FILE POS.	DETECTOR NO.	PIN NO.	ATTRIBUTES	NEMA PHASE
P61,P62	T88-7,9	I13U	26	68	2	6 PED

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

NOTE: INSTALL DC ISOLATORS IN INPUT FILE SLOT 113.

FYA SIGNAL WIRING DETAIL
(wire signal heads as shown)



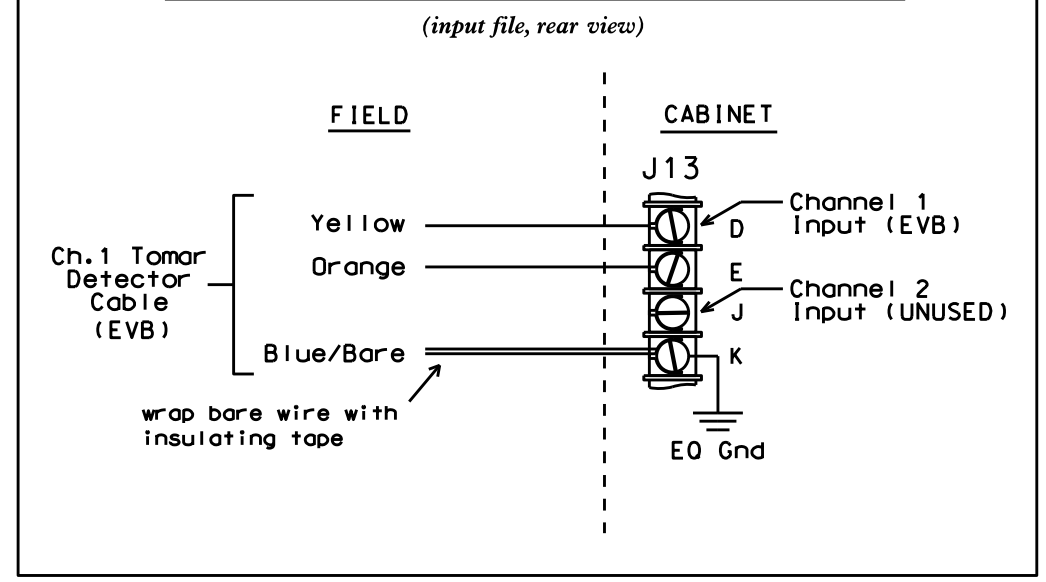
COUNTDOWN PEDESTRIAN SIGNAL OPERATION

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.

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.

TYPICAL TOMAR FIELD WIRE DETAIL
(input file, rear view)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-1026T4
 DESIGNED: September 2014
 SEALED: 04/02/2015
 REVISED: N/A

Electrical Detail - Temporary 4 - Sheet 1 of 2

	Prepared In the Offices of: 750 N. Greenfield Pkwy, Garner, NC 27529	NC 55 (South Alston Avenue) at SR 1926 (Angier Avenue)	SEAL PROFESSIONAL ENGINEER GEORGE C. BROWN 022013
Electrical and Programming Details For:	Division 5 Durham County Durham	PLAN DATE: November 2014 REVIEWED BY: T. Joyce	PREPARED BY: C. Strickland REVIEWED BY:
REVISIONS	INIT. DATE	DocuSigned by: George C. Brown 4/2/2015	F12001E008B439 DATE

SIG. INVENTORY NO. 05-1026T4

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 05-1026-2015-13-10
 Signal Management Systems, Inc.