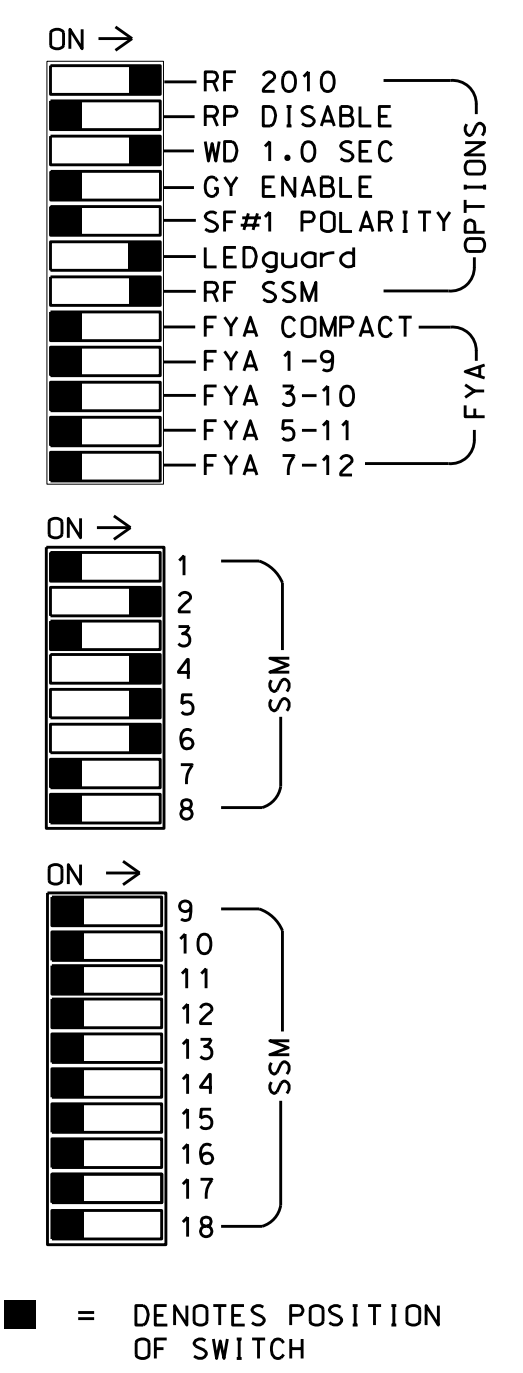
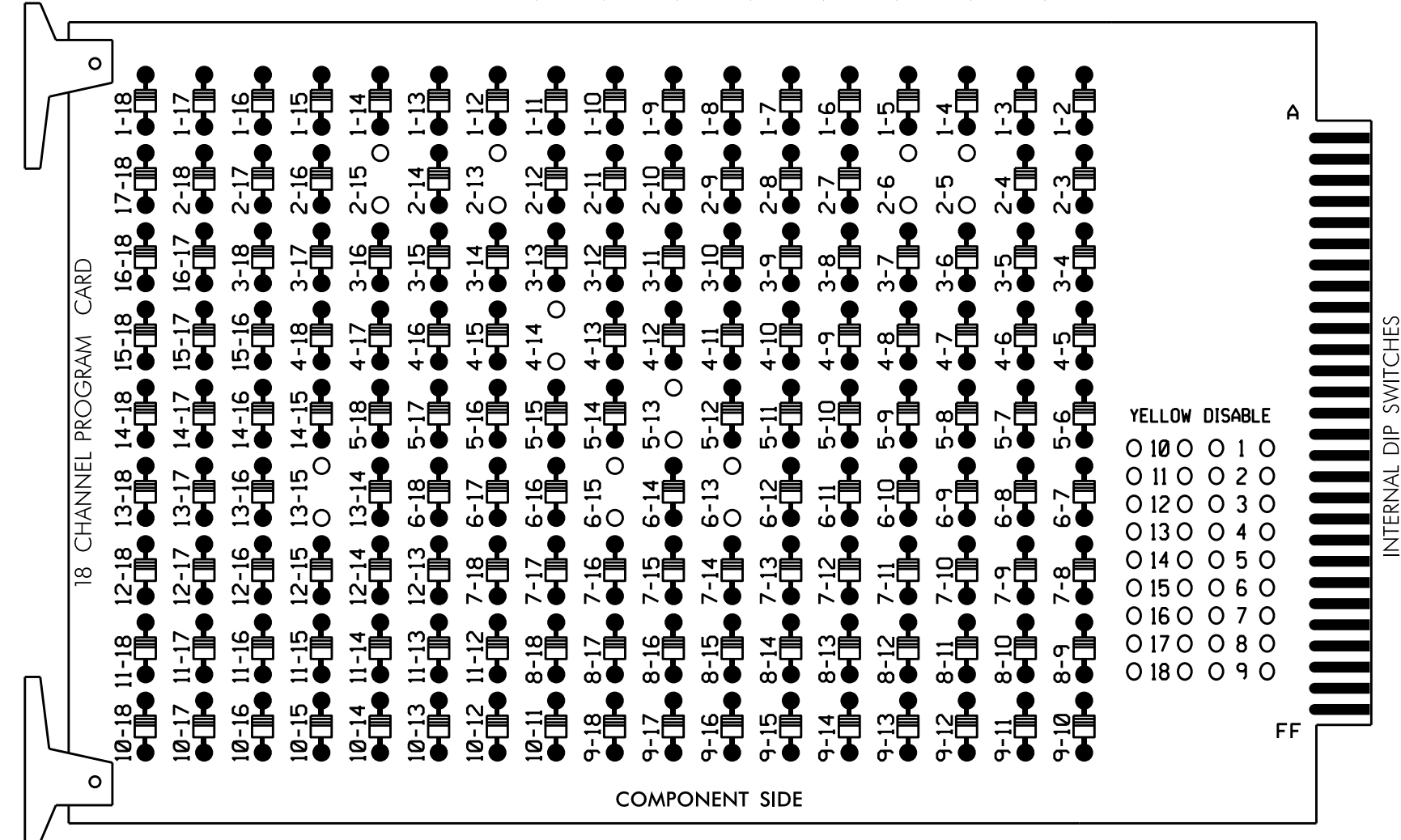


EDI MODEL 2018ECL-NC CONFLICT MONITOR

PROGRAMMING DETAIL
(remove jumpers and set switches as shown)

REMOVE DIODE JUMPERS 2-5, 2-6, 2-13, 2-15, 4-14, 5-13, 6-13, 6-15, and 13-15.



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.
- Connect serial cable from conflict monitor to comm. port 1 of 2070 controller. Ensure conflict monitor communicates with 2070.

REMOVE JUMPERS AS SHOWN

■ = DENOTES POSITION OF SWITCH

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 Plans.
- Program controller to start up in phases 2 and 6 green.
- Enable simultaneous gap-out feature, on controller unit, for all phases.
- The cabinet and controller are part of the Raleigh Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070
 CABINET.....332
 SOFTWARE.....SE-PAC2070
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...12
 LOAD SWITCHES USED.....S2,S3,S5,S6,S7,S8,S9,S12*
 PHASES USED.....2,2PED,4,4PED,5,6,6PED
 OVERLAP "G".....2

* Used for Advance Beacons. See sheet 3 for details.

SIGNAL HEAD HOOK-UP CHART

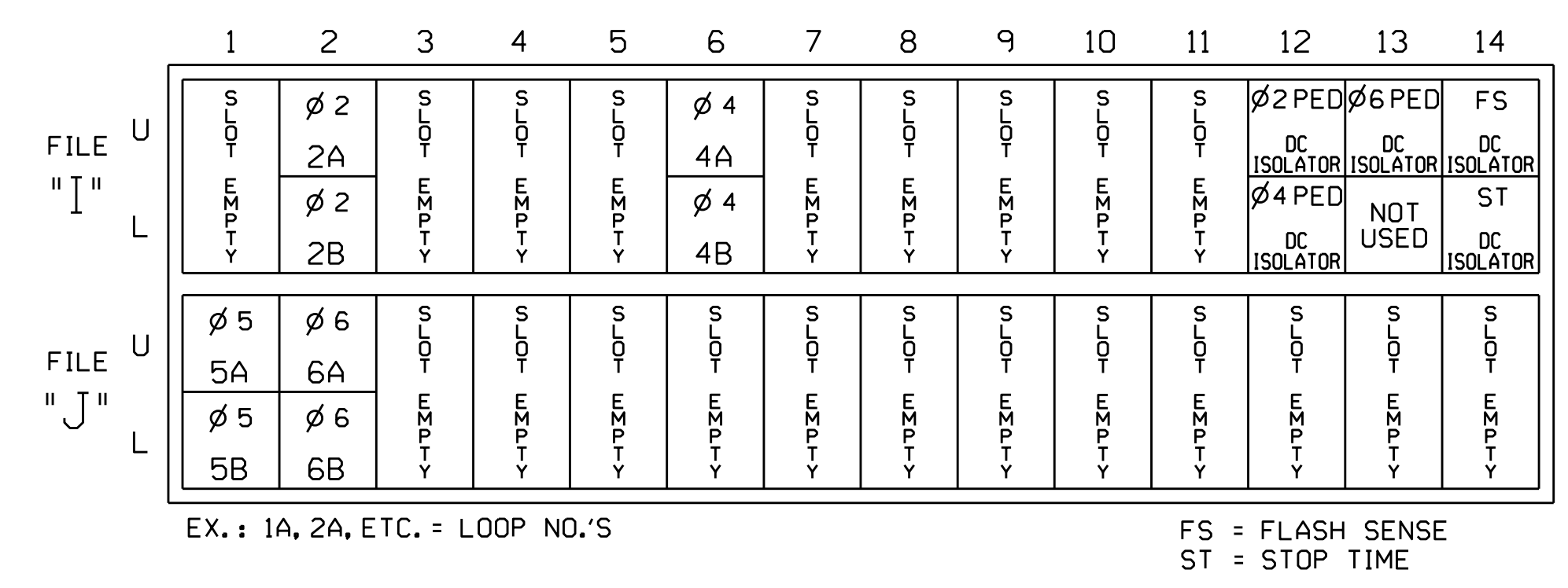
LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	OLG
SIGNAL HEAD NO.	NU	21,22 25	P21, P22	NU	41,42	P41,P42 P43,P44	51,52 53	61,62	P61, P62	NU	NU	ADVANCE BEACON
RED		128			101			134				
YELLOW		129			102			135				
GREEN		130			103			136				
RED ARROW								131				
YELLOW ARROW								132				
GREEN ARROW								133				
Hand icon			113			104			119			** 110
PED YELLOW												** 111
Person icon			115			106			121			*

NU = Not Used

- * Denotes install load resistor. See load resistor installation detail this sheet.
- ** Used for Advance Beacon control. See sheet 3 for Advance Beacon Relay Control and Sign Wiring Detail.

INPUT FILE POSITION LAYOUT

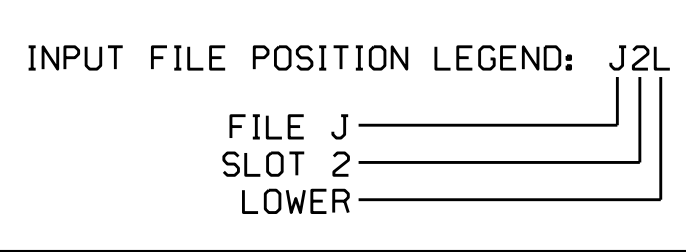
(front view)



INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	DELAY TIME	EXTEND (STRETCH) TIME
2A	TB2-5,6	I2U	39	3	2		
2B	TB2-7,8	I2L	43	4	2		
4A	TB4-9,10	I6U	41	11	4		
4B	TB4-11,12	I6L	45	12	4	15	
5A	TB3-1,2	J1U	55	19	5		
5B	TB3-3,4	J1L	55	19	5		
6A	TB3-5,6	J2U	40	21	6		
6B	TB3-7,8	J2L	44	22	6		
PED PUSH BUTTONS							
P21,P22	TB8-4,6	I12U	67	PED 2	2 PED		
P41,P42,P43,P44	TB8-5,6	I12L	69	PED 4	4 PED		
P61,P62	TB8-7,9	I13U	68	PED 6	6 PED		

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



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.

SE-PAC2070 CONTROLLER OVERLAP PROGRAMMING

(program controller as shown below)
 FROM MAIN MENU PRESS 4 (UNIT DATA)

SE-PAC UNIT DATA	PRESS # DESIRED
1-STARTUP & MISC	6-ALT SEQUENCES
2-REMOTE FLASH	7-PORT 1 DATA
3-OVERLAP STANDARD	8-I/O MISC
4-OVERLAP SPECIAL	9-SIG DRV OUT
5-RING STRUCTURE	

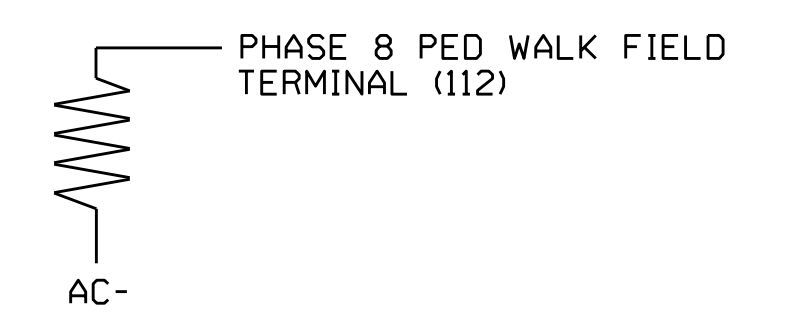
SE-PAC OVERLAP - G	(0-NO/1-YES)
OVL PHASES:	01000000 0000000
PHS/CHN:	123456789 0123456789 01234
OVL CHN(S):	000000000 0010000000 00000

PRESS 'F' TO RETURN TO UNIT DATA

LOAD RESISTOR INSTALLATION DETAIL

(install resistor as shown below)

ACCEPTABLE VALUES	
VALUE (ohms)	WATTAGE
1.5K - 1.9K	25W (min)
2.0K - 3.0K	10W (min)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-1642
 DESIGNED: December 2015
 SEALED: 2/1/2016
 REVISED: N/A

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Electrical Detail - Final Design - Sheet 1 of 2

ELECTRICAL AND PROGRAMMING DETAILS FOR: Prepared in the Offices of: 750 Greenfield Parkway, Garner, NC 27529	W. Peace Street at US 70 WB-401/NC 50 NB (Capital Blvd.) Ramps		SEAL KEITH M. MIMS ENGINEER
	Division 5 Wake County Raleigh PLAN DATE: January 2016 REVIEWED BY: T. Joyce PREPARED BY: S. Armstrong REVIEWED BY:	DATE: 2/2/2016 SIG. INVENTORY NO. 05-1642	

09-SEP-2016 14:48
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 sarmstrong