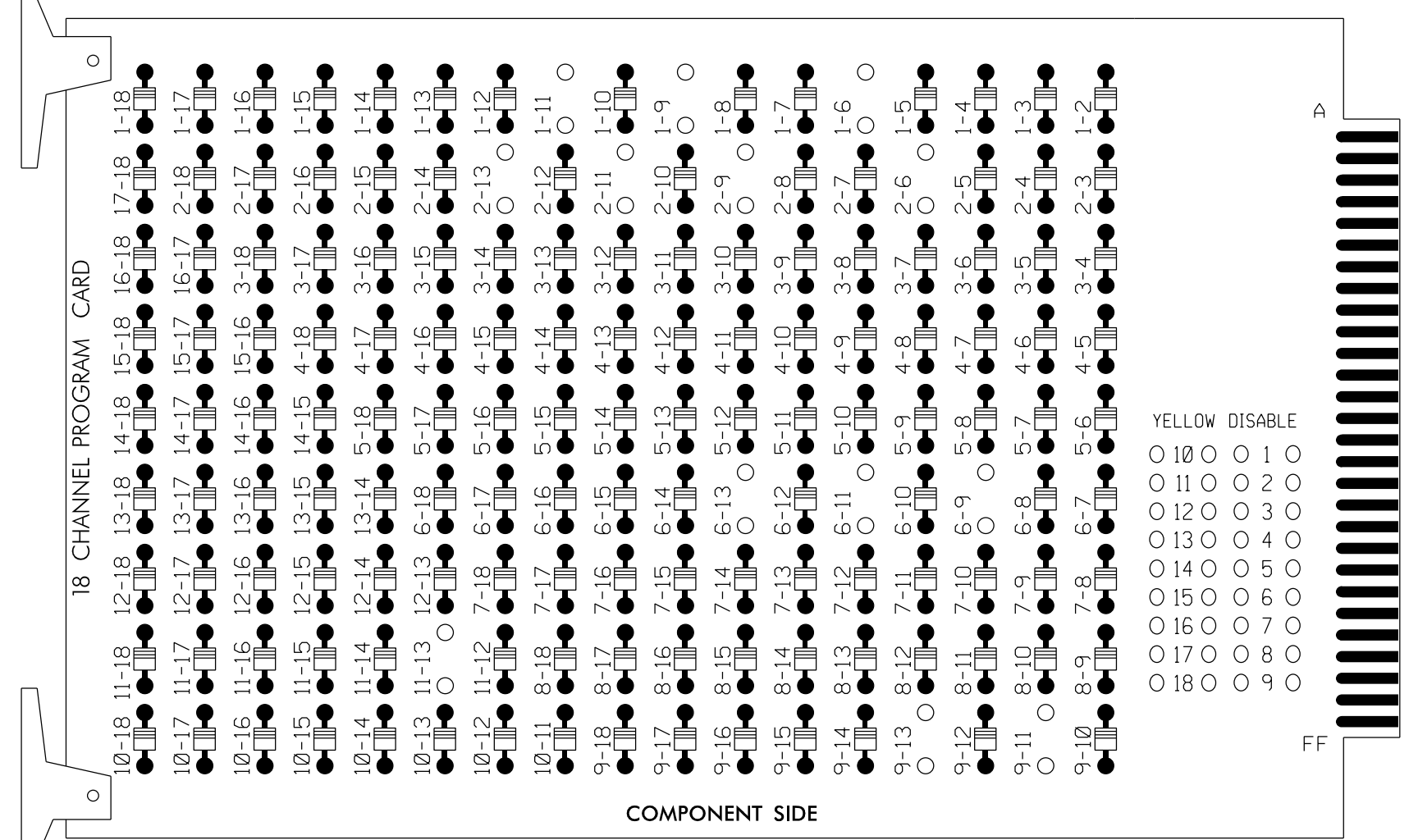


EDI MODEL 2018ECLip-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

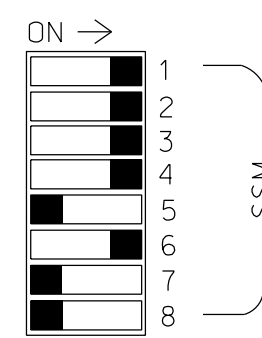
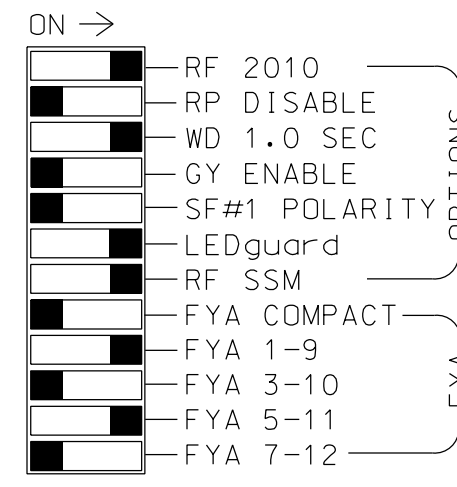
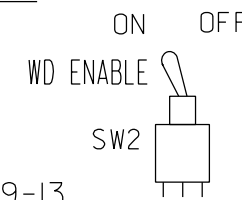
REMOVE DIODE JUMPERS 1-6, 1-9, 1-11, 2-6, 2-9, 2-11, 2-13, 6-9, 6-11, 6-13, 9-11, 9-13, and 11-13.



REMOVE JUMPERS 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.



■ = 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.
- Enable Simultaneous Gap-Out for all phases.
- Program phases 2 and 6 for Variable Initial and Gap Reduction.
- Program phases 2 and 6 for Start Up In Green.
- Program phase 2 for 'STARTUP PED CALL'.
- Program phases 2 and 6 for Yellow Flash, and overlap 1 as Wag Overlaps.
- The cabinet and controller are part of the Wilmington System.

EQUIPMENT INFORMATION

CONTROLLER.....EXISTING 2070E
 CABINET.....332 W/ AUX
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S8,AUX S1,
 AUX S4.
 PHASES USED.....1,2,2 PED,3,4,6.
 OVERLAP "A".....1+2
 OVERLAP "B".....NOT USED
 OVERLAP "C".....6
 OVERLAP "D".....NOT USED

SIGNAL HEAD HOOK-UP CHART

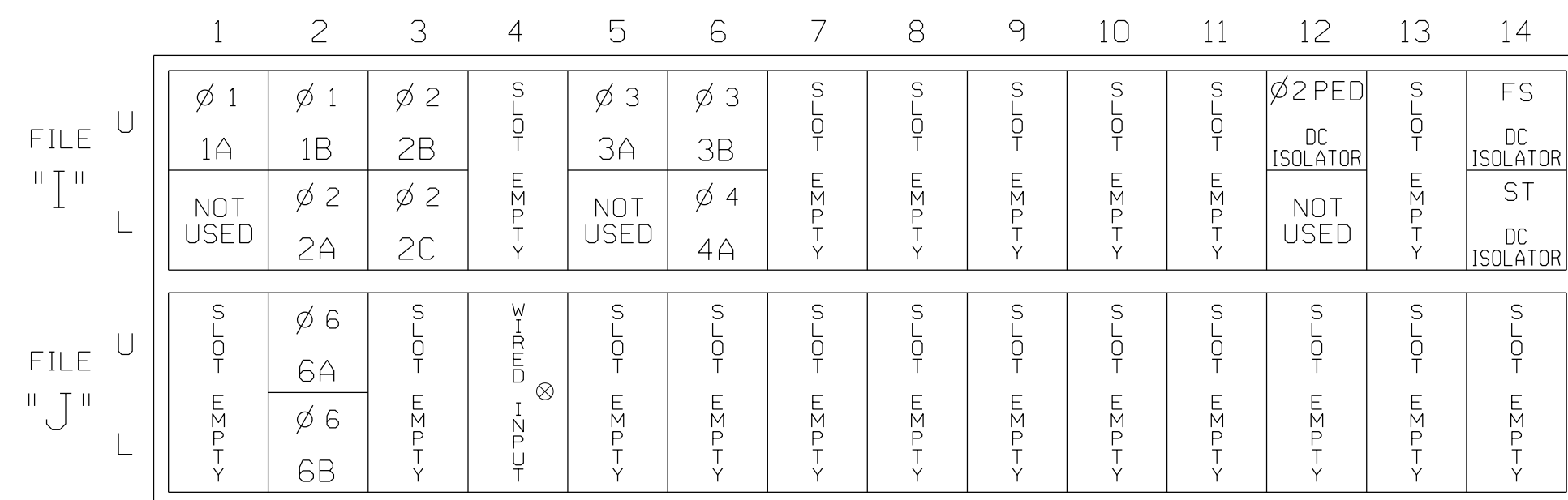
LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6	
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18	
PHASE	1	2	2 PED	3	4	4 PED	5	6	6 PED	7	8	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE	
SIGNAL HEAD NO.	11	32	22,23	P21, P22	23	31	32	41	42	NU	NU	61,62	NU	NU	NU	11	NU	21	NU
RED	*	128		116	116	101	101			134									
YELLOW		129		117	117	102	102			135									
GREEN		130		118	118	103	103			136									
RED ARROW																A121		A114	
YELLOW ARROW		126		117												A122		A115	
FLASHING YELLOW ARROW																A123		A116	
GREEN ARROW	127	127		118	118	103													
Hand																		113	
Person																		115	

NU = Not Used

* Denotes install load resistor. See load resistor installation detail this sheet.

★ 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

⊗ Wired Input - Do not populate slot with detector card

INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT ASSIGNMENT NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND	FULL TIME DELAY	STRETCH TIME	DELAY TIME
1A ¹	TB2-1,2	11U	56	18	1	1	Y	Y			15
	-	J4U	48	10 ★	26	6	Y	Y	Y		3
	-	11U	56	18 ★	51	1	Y	Y			
1B	TB2-5,6	12U	39	1	2	1	Y	Y			15
2A	TB2-7,8	12L	43	5	12	2	Y	Y			
2B	TB2-9,10	13U	63	25	32	2	Y	Y			
2C	TB2-11,12	13L	76	38	42	2	Y	Y	Y		3
3A	TB4-5,6	15U	58	20	3	3	Y	Y			3
3B	TB4-9,10	16U	41	3	4	3	Y	Y			
4A	TB4-11,12	16L	45	7	14	4	Y	Y			10
6A	TB3-5,6	J2U	40	2	6	6	Y	Y			
6B	TB3-7,8	J2L	44	6	16	6	Y	Y			
PED PUSH BUTTONS											
P21,P22	TB8-4,6	112U	67	29	PED 2	2 PED					

NOTE:

INSTALL DC ISOLATORS IN INPUT FILE SLOT 112.

¹Add jumper from 11-W to J4-W, on rear of input file.

★ See Input Page Assignment programming details on sheet 3.

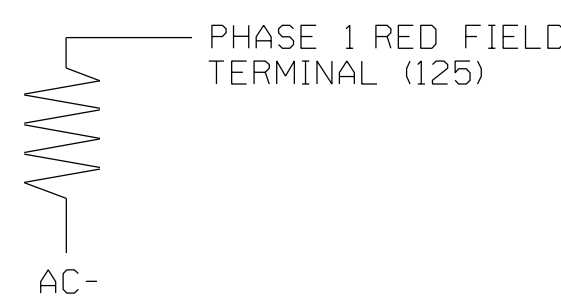
INPUT FILE POSITION LEGEND: J2L



LOAD RESISTOR INSTALLATION DETAIL

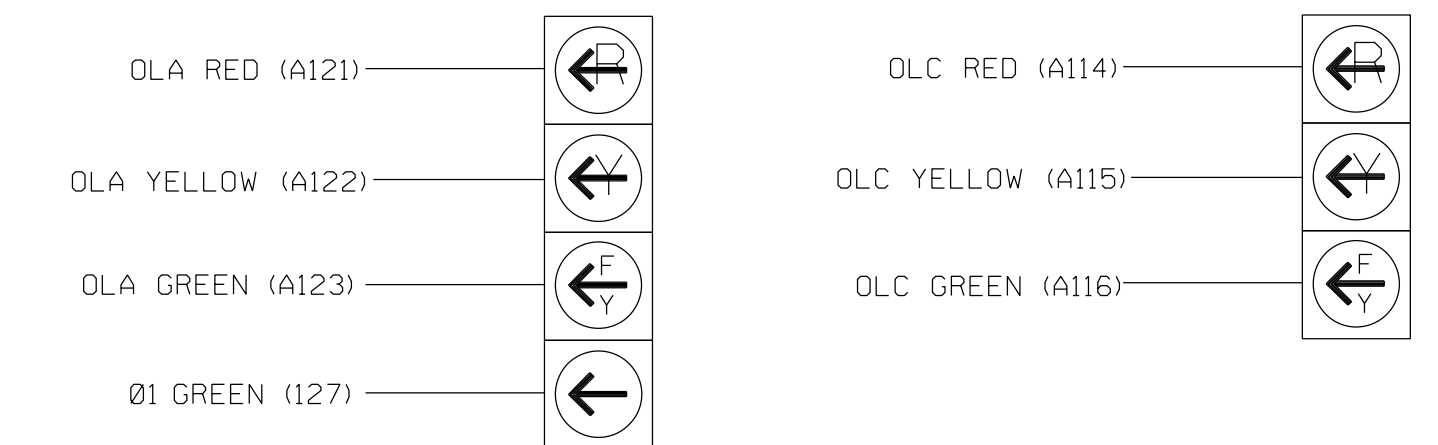
(install resistors as shown below)

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



FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



11

21

NOTE

- The sequence display for signal head 11 requires special logic programming. See sheet 2 of 4 for programming instructions.

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.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0882
 DESIGNED: April 2017
 SEALED:
 REVISED:

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Signal Upgrade - Final Design (Electrical Detail Sheet 1 of 4)

	ELECTRICAL AND PROGRAMMING DETAILS FOR: Prepared for the Offices of:	SR 1409 (Military Cutoff Road) at SR 1940 (Covill Farm Road)	SEAL NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 025892 MELISSA B. TOTH
	Division 03 New Hanover County Wilmington	PLAN DATE: April 2017 REVIEWED BY: MB Toth PREPARED BY: AM Encarnacion REVIEWED BY:	REVISIONS INIT. DATE

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