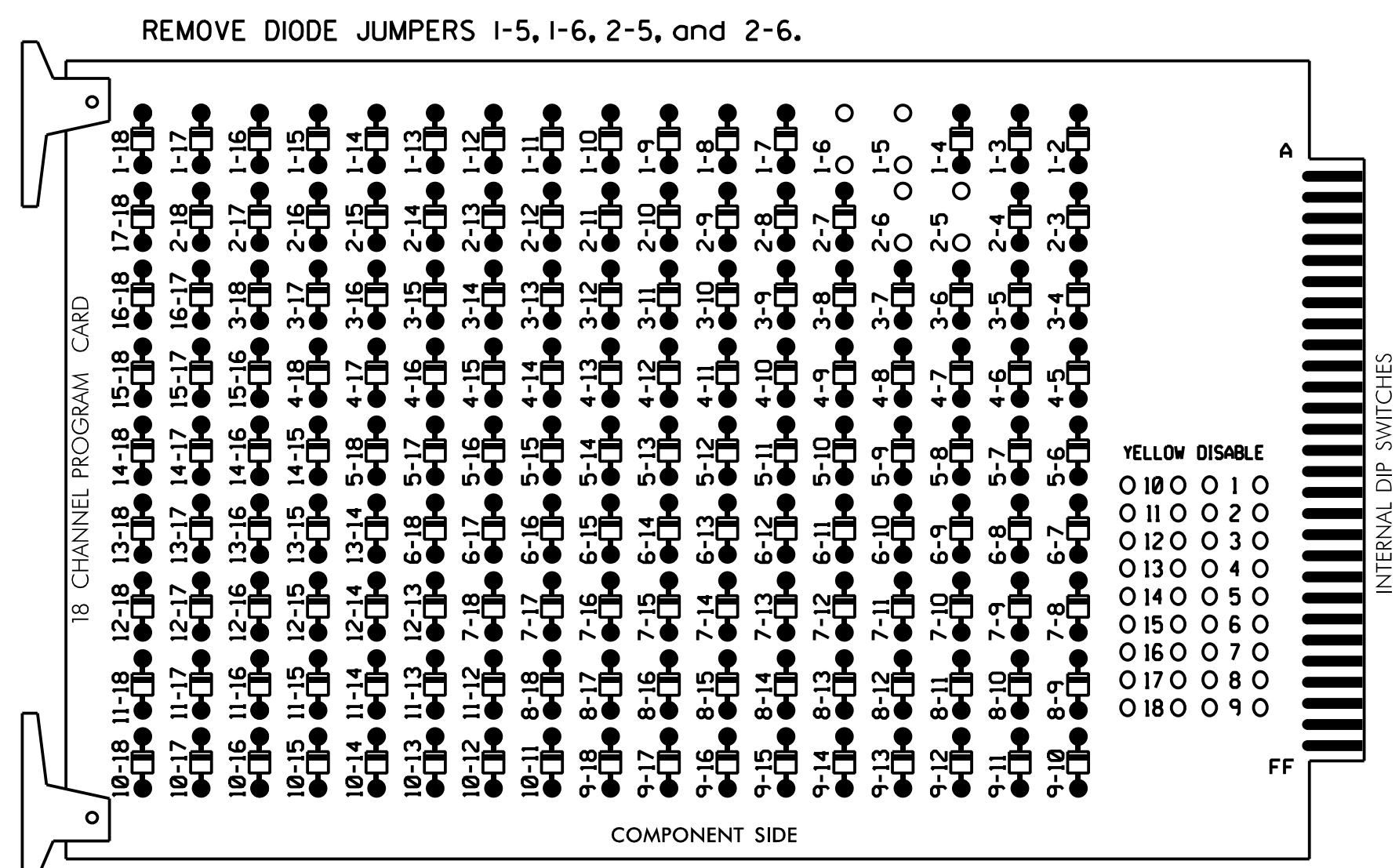


EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

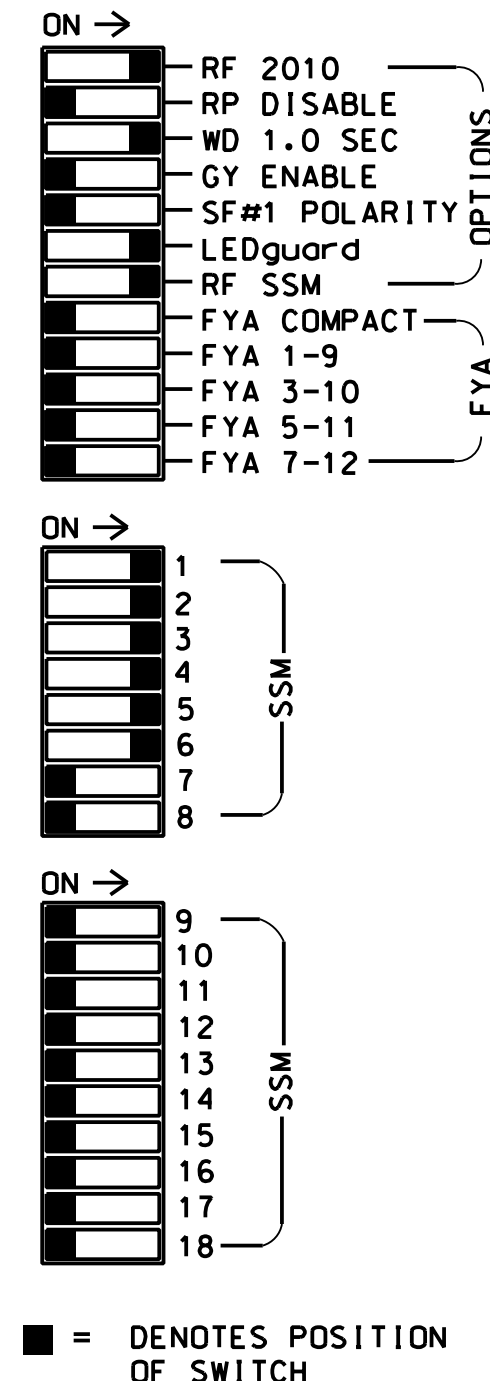
(remove jumpers and set switches as shown)



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



■ = 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 Startup In Green.
- Program phases 2 and 6 for Yellow Flash.
- The cabinet and controller are part of the Havelock US 70 Business Closed Loop 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	OLA	OLB	SPARE	OLC	OLD	SPARE
SIGNAL HEAD NO.	11	21,22	NU	22	31	32	41	42	62	NU	42	51	61,62	NU	NU	NU	NU	NU
RED		128		116	116	101	101						134					
YELLOW		129		117	117	102	102						135					
GREEN		130		118	118	103	103						136					
RED ARROW	125												131					
YELLOW ARROW	126			117				102		132	132							
GREEN ARROW	127			118	118		103	103		133	133							

NU = Not Used

EQUIPMENT INFORMATION

CONTROLLER.....2070E
 CABINET.....332 W/AUX
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S1,S2,S4,S5,S7,S8
 PHASES USED.....1,2,3,4,5,6
 OVERLAPS.....NONE

INPUT FILE POSITION LAYOUT

(front view)

FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	∅ 1	∅ 2	∅ 3	S	S	∅ 3	∅ 4	S	SYS	S	S	S	S	FS
L	1A	2A	3A	-TOP	-TOP	3C	4A	-TOP	S31	-TOP	-TOP	-TOP	-TOP	DC ISOLATOR
U	NOT USED	∅ 2	∅ 3	T	T	∅ 3	∅ 4	T	SYS	T	T	T	T	ST
L	2B	3B	-TOP	-TOP	-TOP	3D	4B	-TOP	S32	-TOP	-TOP	-TOP	-TOP	DC ISOLATOR
U	∅ 5	∅ 5	∅ 6	S	S	S	S	S	S	S	S	S	S	S
L	5A	5B	6A	-TOP	-TOP	-TOP	-TOP	-TOP	-TOP	-TOP	-TOP	-TOP	-TOP	-TOP
U	NOT USED	NOT USED	∅ 6	T	T	T	T	T	T	T	T	T	T	T
L	6B	6B	-TOP	-TOP	-TOP	-TOP	-TOP	-TOP	-TOP	-TOP	-TOP	-TOP	-TOP	-TOP

EX. : 1A, 2A, ETC. = LOOP NO.'S

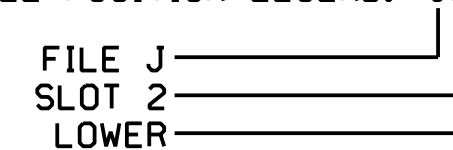
FS = FLASH SENSE
 ST = STOP TIME

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	TB2-1,2	I1U	56	18	1	1	Y	Y			
2A	TB2-5,6	I2U	39	1	2	2	Y	Y			
2B	TB2-7,8	I2L	43	5	12	2	Y	Y			
3A	TB2-9,10	I3U	63	25	32	3	Y	Y			
3B	TB2-11,12	I3L	76	38	42	3	Y	Y			10
3C	TB4-9,10	I6U	41	3	4	3	Y	Y		2.0	
3D	TB4-11,12	I6L	45	7	14	3	Y	Y		1.0	
4A	TB6-1,2	I7U	65	27	34	4	Y	Y			
4B	TB6-3,4	I7L	78	40	44	4	Y	Y			
* S31	TB6-9,10	I9U	60	22	11	SYS					
* S32	TB6-11,12	I9L	62	24	13	SYS					
5A	TB3-1,2	J1U	55	17	5	5	Y	Y			
5B	TB3-5,6	J2U	40	2	6	5	Y	Y			15
6A	TB3-9,10	J3U	64	26	36	6	Y	Y			
6B	TB3-11,12	J3L	77	39	46	6	Y	Y			

* System detector only. Remove the vehicle phase assigned to this detector in the default programming.

INPUT FILE POSITION LEGEND: J2L



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 02-0873
 DESIGNED: March 2018
 SEALED: 12-7-18
 REVISED: N/A

Electrical Detail Signal Upgrade

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

	Prepared for: US 70 Business at Wal-Mart Entrance/SR 1773 (Service Road)		
	Division 02 Craven Co. Havelock	SEAL 031464 NATASHA R. SIMMONS	
PLAN DATE: March 2018 PREPARED BY: A.H. Thornburg	REVIEWED BY: A.D. Klinksiek REVIEWED BY: N.R. Simmons	REVISIONS INIT. DATE	DocuSigned by: Natasha R. Simmons 12/7/2018 SIG. INVENTORY NO. 02-0873