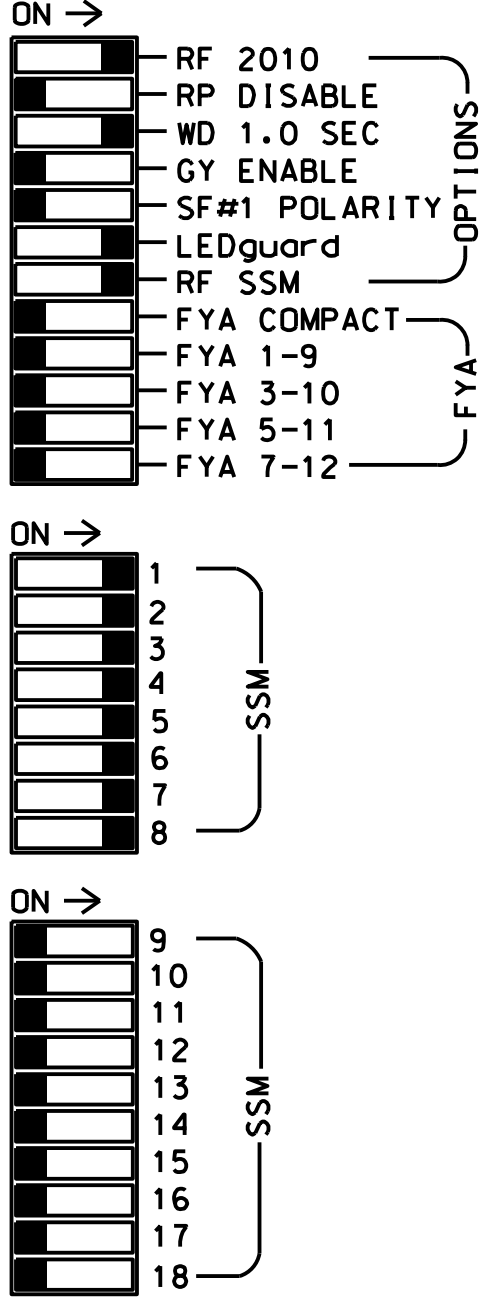
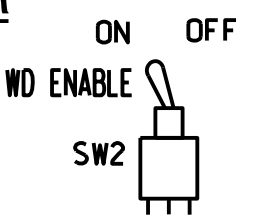
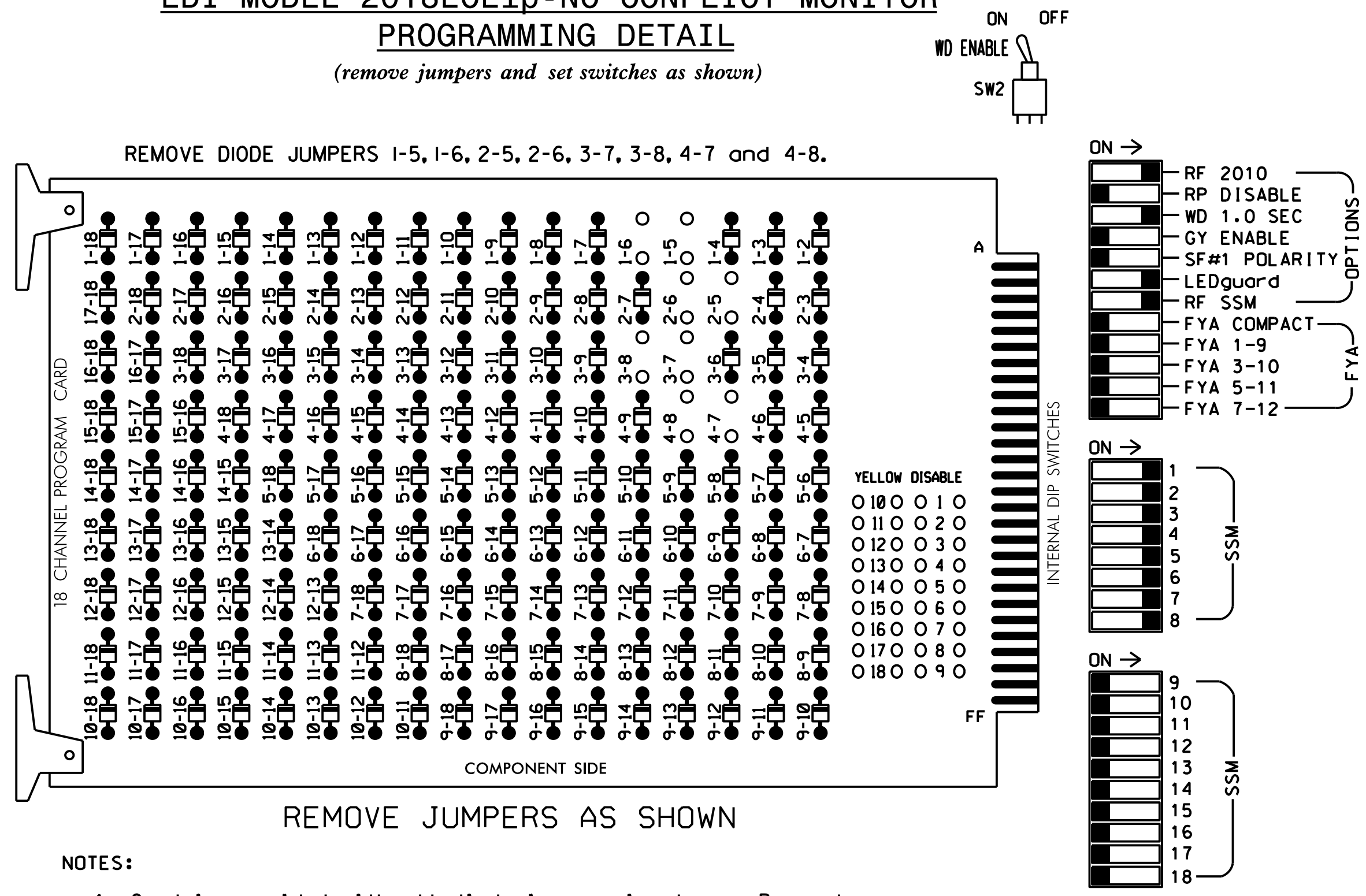


EDI MODEL 2018ECLIP-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)



REMOVE DIODE JUMPERS 1-5, 1-6, 2-5, 2-6, 3-7, 3-8, 4-7 and 4-8.

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.

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 phase 2 Green and 6 Green.
- The cabinet and controller are part of the Belmont Signal System.

EQUIPMENT INFORMATION

CONTROLLER.....2070LX
 CABINET.....332 W/ AUX
 SOFTWARE.....ECONOLITE ASC/3-2070
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S1,S2,S4,S5,S7,S8,S10,S11
 PHASES USED.....1,2,3,4,5,6,7,8
 OVERLAPS.....NONE

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, 23	NU	31	41,42	NU	51	61,62, 63	NU	71	81,82	NU	NU	NU	NU	NU	NU	NU
RED		128			101			134			107							
YELLOW		129			102			135			108							
GREEN		130			103			136			109							
RED ARROW	125			116			131			122								
YELLOW ARROW	126			117			132			123								
GREEN ARROW	127			118			133			124								

NU = Not Used

INPUT FILE POSITION LAYOUT

(front view)

FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14
1A	∅ 1	∅ 2/SYS	∅ 2/SYS	S	∅ 3	∅ 4/SYS	∅ 4	SYS. DET. S50	SYS. DET. S51	S	S	S	S	FS DC ISOLATOR
NOT USED	∅ 2/SYS	NOT USED	NOT USED	NOT USED	∅ 4/SYS	∅ 4	NOT USED	SYS. DET. S52	S	S	S	S	S	DC ISOLATOR
FILE "J"	5A	∅ 6/SYS	∅ 6/SYS	S	∅ 7	∅ 8/SYS	∅ 8	∅ 8	SYS. DET. S53	S	S	S	S	S
NOT USED	∅ 6/SYS	NOT USED	NOT USED	NOT USED	∅ 8/SYS	∅ 8	NOT USED	SYS. DET. S54	S	S	S	S	S	S

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

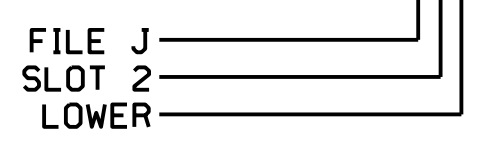
FS = FLASH SENSE
 ST = STOP TIME

INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	CALL	EXTEND TIME	DELAY TIME	ADDED INITIAL	DETECTOR TYPE
1A	TB2-1,2	I1U	56	1	1	YES				S
2A/S19	TB2-5,6	I2U	39	2	2/SYS	YES			X	N
2B/S20	TB2-7,8	I2L	43	12	2/SYS	YES			X	N
2C/S21	TB2-9,10	I3U	63	32	2/SYS	YES			X	N
3A	TB4-5,6	I5U	58	3	3	YES				S
4A/S27	TB4-9,10	I6U	41	4	4/SYS	NO	3,1			N
4B/S28	TB4-11,12	I6L	45	14	4/SYS	NO	3,1			N
4C	TB6-1,2	I7U	65	34	4	YES				S
4D	TB6-3,4	I7L	78	44	4	YES		3		S
*S50	TB6-5,6	I8U	49	24	SYS	NO				N
*S51	TB6-9,10	I9U	60	11	SYS	NO				N
*S52	TB6-11,12	I9L	62	13	SYS	NO				N
5A	TB3-1,2	J1U	55	5	5	YES				S
6A/S22	TB3-5,6	J2U	40	6	6/SYS	YES			X	N
6B/S23	TB3-7,8	J2L	44	16	6/SYS	YES			X	N
6C/S24	TB3-9,10	J3U	64	36	6/SYS	YES			X	N
7A	TB5-5,6	J5U	57	7	7	YES		3		S
8A/S25	TB5-9,10	J6U	42	8	8/SYS	NO	3,1			N
8B/S26	TB5-11,12	J6L	46	18	8/SYS	NO	3,1			N
8C	TB7-1,2	J7U	66	38	8	YES				S
8D	TB7-3,4	J7L	79	48	8	YES		10		S
8E	TB7-5,6	J8U	50	28	8	YES		10		S
*S53	TB7-9,10	J9U	59	15	SYS	NO				N
*S54	TB7-11,12	J9L	61	17	SYS	NO				N

* System detector only. Remove any assigned vehicle phase.

INPUT FILE POSITION LEGEND: J2L



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 12-0562
 DESIGNED: October 2018
 SEALED: February 7, 2019
 REVISED: N/A

Electrical Detail

Prepared in the Office of:

 NC FIRM LICENSE No: P-0339
 504 Meadowlands Drive
 Hillsborough, NC 27278
 (919) 732-3883
 (919) 732-6676 (FAX)

Electrical and Programming Details For:

 US 29-74 (Wilkinson Boulevard)
 at
 NC 273 (Park Street)
 Division 12 Gaston County Belmont
 PLAN DATE: October 2018 REVIEWED BY:
 PREPARED BY: J. Smith REVIEWED BY: E. Sirgany
 REVISIONS INIT. DATE
 DocuSign by: Edward W. Sirgany 2/7/2019
 DATE
 SIG. INVENTORY NO. 12-0562

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

 SEAL
 STATE OF NORTH CAROLINA
 PROFESSIONAL ENGINEER
 EDWARD W. SIRGANY
 License No. 108174
 DocuSign by: Edward W. Sirgany 2/7/2019
 DATE
 SIG. INVENTORY NO. 12-0562