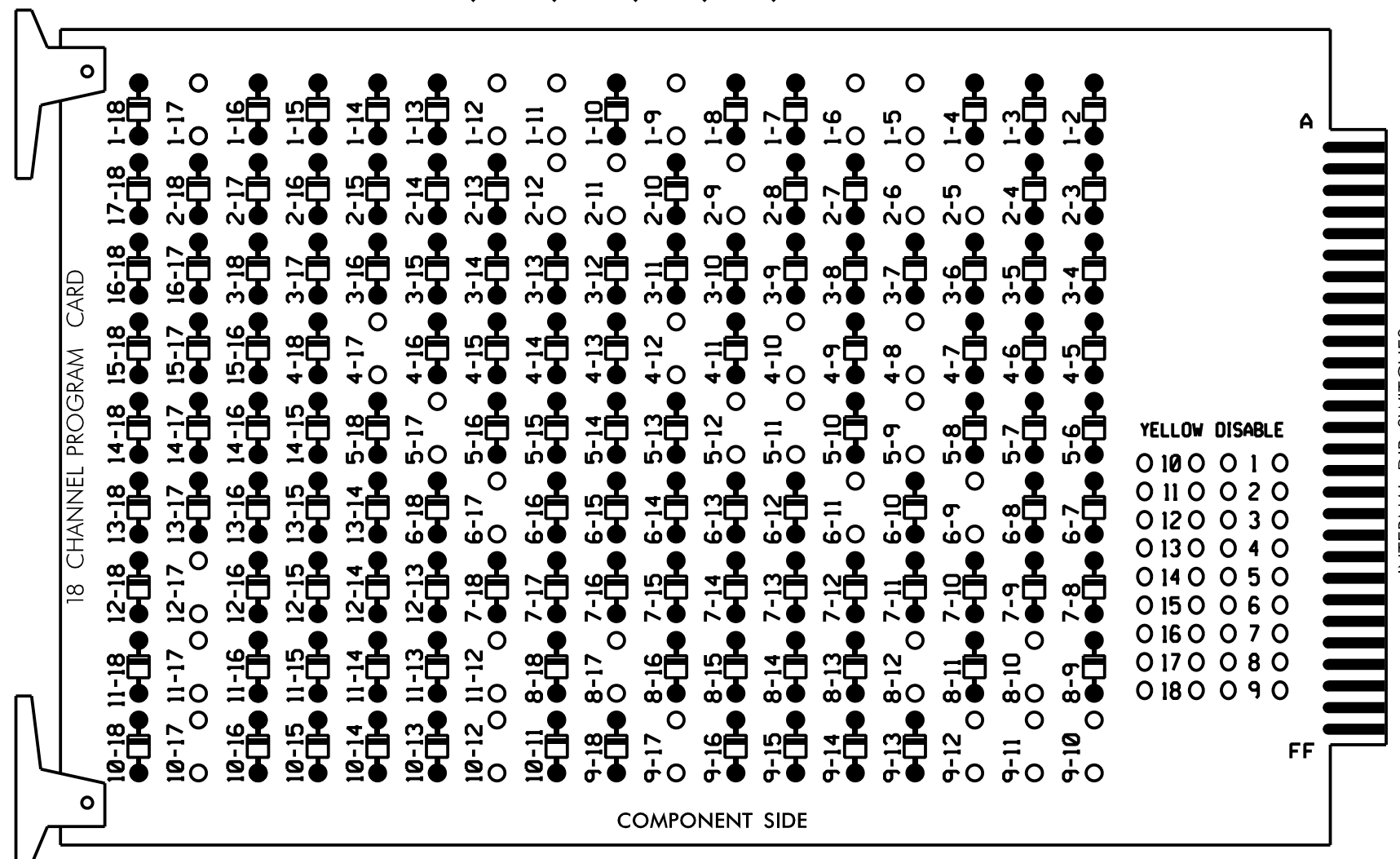


EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

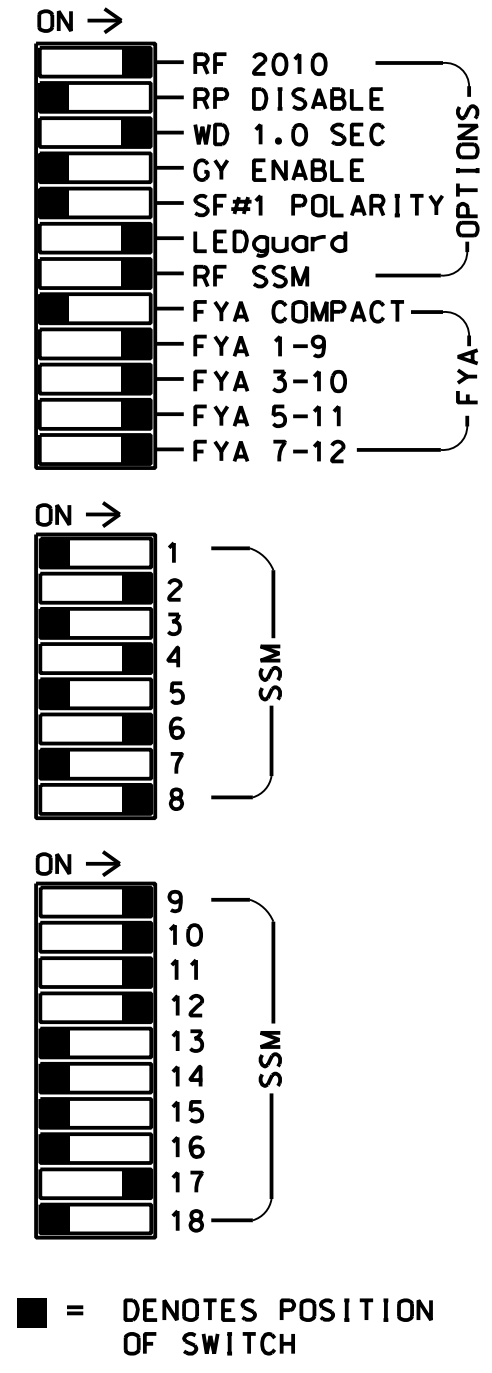
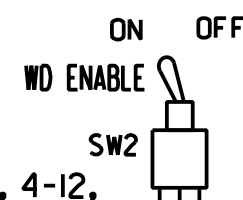
REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-11, 1-12, 1-17, 2-5, 2-6, 2-9, 2-11, 2-12, 4-8, 4-10, 4-12, 4-17, 5-9, 5-11, 5-12, 5-17, 6-9, 6-11, 6-17, 8-10, 8-12, 8-17, 9-11, 9-12, 9-17, 10-12, 10-17, 11-12, 11-17, and 12-17.



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.



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 phases 4 and 8 for Dual Entry.
- 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, and overlaps 1, 2, and 5 as Wag Overlaps.
- If this signal will be managed by an ATMS software, enable controller and detector logging for all detectors used at this location.
- The cabinet and controller are part of the NC 133 Closed Loop System.

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,S5,S7,S8,S11,AUX S1,
 AUX S2,AUX S3,AUX S4,AUX S5
 PHASES USED.....1,2,4,5,6,8
 OVERLAP "A".....1+2
 OVERLAP "B".....4
 OVERLAP "C".....5+6
 OVERLAP "D".....4+5
 OVERLAP "E".....1+8

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	OLE	OLC	OLD	SPARE
SIGNAL HEAD NO.	11	21,22	NU	NU	41,42	NU	51	61,62	NU	NU	82,83,85	NU	11	81	84	51	43	NU
RED		128			101			134			107				A111		A101	
YELLOW	*	129			102		*	135			108							
GREEN		130			103			136			109							
RED ARROW													A121	A124			A114	
YELLOW ARROW													A122	A125	A112	A115	A102	
FLASHING YELLOW ARROW													A123	A126	A113	A116	A103	
GREEN ARROW	127							133										

NU = Not Used
 * Denotes install load resistor. See load resistor installation detail this sheet.
 ★ See pictorial of head wiring in detail this sheet.
 NOTE: Load switch AUX S3 requires output remapping. See sheet 6 of this electrical detail for instructions.

INPUT FILE POSITION LAYOUT

(front view)

FILE "I"	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
U	∅ 1	∅ 1	∅ 2/SYS	∅ 3	∅ 4	∅ 5	∅ 6	∅ 7	∅ 8	∅ 9	∅ 10	∅ 11	∅ 12	∅ 13	FS
L	1A	1B	2A/S03	2B/S04	4A	5A	6A/S05	7A	8A	9A	10A	11A	12A	13A	DC ISOLATOR
U	NOT USED	NOT USED	∅ 2/SYS	∅ 3	∅ 4	∅ 5	∅ 6	∅ 7	∅ 8	∅ 9	∅ 10	∅ 11	∅ 12	∅ 13	DC ISOLATOR
L	NOT USED	NOT USED	2B/S04	∅ 3	∅ 4	∅ 5	∅ 6	∅ 7	∅ 8	∅ 9	∅ 10	∅ 11	∅ 12	∅ 13	DC ISOLATOR
U	∅ 5	∅ 5	∅ 6/SYS	∅ 7	∅ 8	∅ 9	∅ 10	∅ 11	∅ 12	∅ 13	∅ 14	∅ 15	∅ 16	∅ 17	FS
L	5A	5B	6A/S05	6B/S06	8A	9A	10A	11A	12A	13A	14A	15A	16A	17A	DC ISOLATOR
	NOT USED	NOT USED	∅ 6/SYS	∅ 7	∅ 8	∅ 9	∅ 10	∅ 11	∅ 12	∅ 13	∅ 14	∅ 15	∅ 16	∅ 17	DC ISOLATOR
	NOT USED	NOT USED	6B/S06	∅ 7	∅ 8	∅ 9	∅ 10	∅ 11	∅ 12	∅ 13	∅ 14	∅ 15	∅ 16	∅ 17	DC ISOLATOR

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

FS = FLASH SENSE
 ST = STOP TIME

⊗ Wired Input - Do not populate slot with detector card

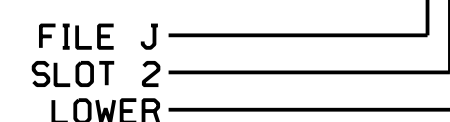
INPUT FILE CONNECTION & PROGRAMMING CHART

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	I1U	56	18	1	1	Y	Y			15
	-	J4U	48	10★	26	6	Y	Y			
	-	I1U	56	18★	51	1	Y	Y			
1B	TB2-5,6	I2U	39	1	2	1	Y	Y			15
	2A/S03	TB2-9,10	I3U	63	32	2/SYS	Y	Y			
	2B/S04	TB2-11,12	I3L	76	42	2/SYS	Y	Y			
4A	TB4-9,10	I6U	41	3	4	4	Y	Y			
	5A ²	TB3-1,2	J1U	55	17	5	Y	Y			15
		-	I4U	47	9★	22	2	Y	Y		
5B	TB3-5,6	J2U	40	2	6	5	Y	Y			15
	6A/S05	TB3-9,10	J3U	64	26	6/SYS	Y	Y			
	6B/S06	TB3-11,12	J3L	77	39	6/SYS	Y	Y			
8A	TB5-9,10	J6U	42	4	8	8	Y	Y			
	8B	TB5-11,12	J6L	46	8	8	Y	Y			

- Add jumper from I1-W to J4-W, on rear of input file.
- Add jumper from J1-W to I4-W, on rear of input file.

★ See vehicle detector setup programming detail for alternate phasing on sheets 4 and 5.

INPUT FILE POSITION LEGEND: J2L



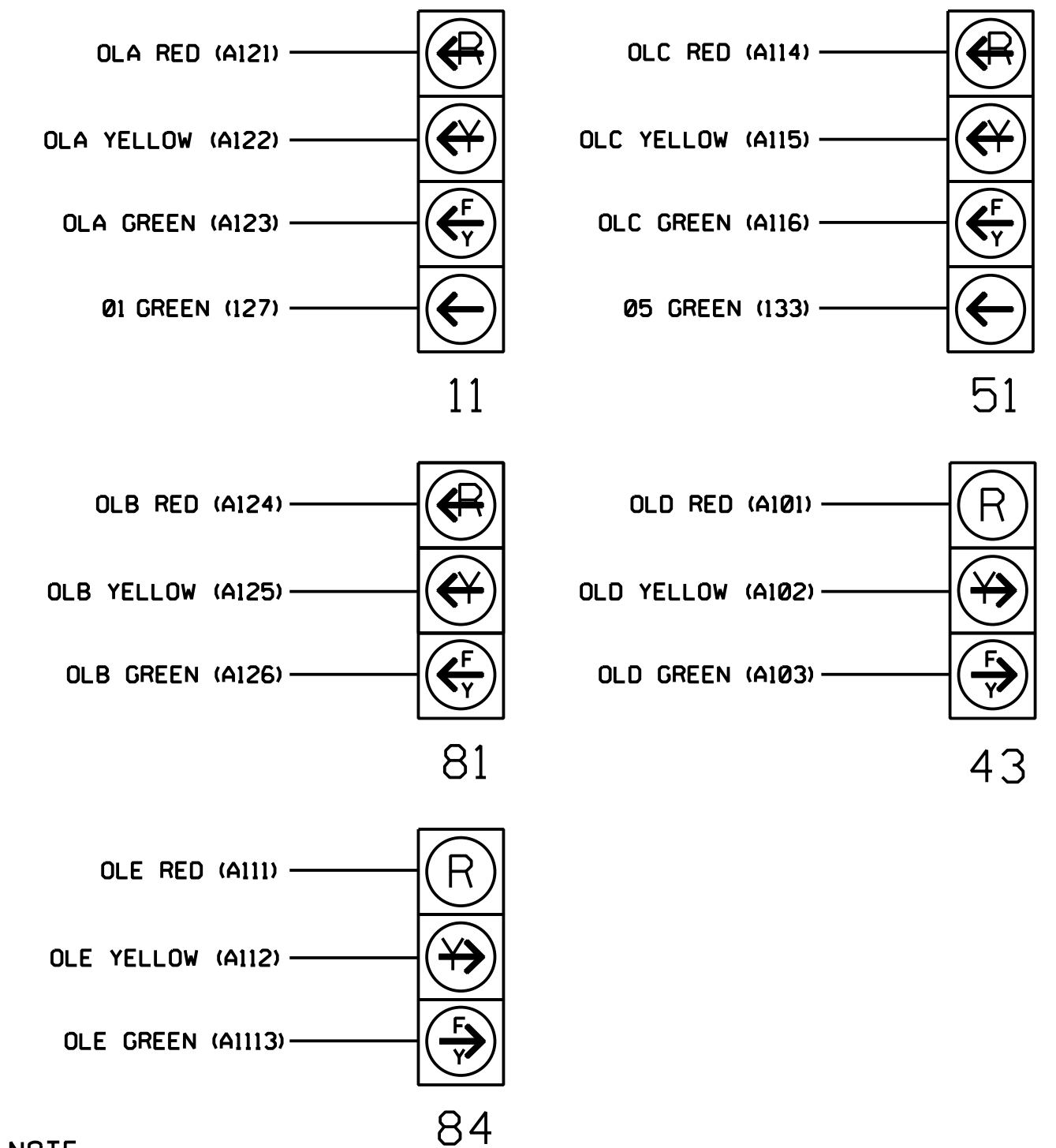
THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-1122
 DESIGNED: June 2017
 SEALED: 9/10/2021
 REVISED: N/A



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FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



NOTE

The sequence display for signal heads 11 and 51 requires special logic programming. See sheet 2 for programming instructions.

Electrical Detail - Sheet 1 of 6
 New Installation
 Final Design

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR: 	NC 906 (Midway Road) at NC 211 Northbound Ramp/ Midway Commons Driveway		SEAL
	Division 03 Brunswick Co. Southport	Prepared for: Prepared by: A.H. Thornburg Reviewed by: N.R. Simmons	
PLAN DATE: June 2017 REVIEWED BY: A.D. Klinksiek	REVIEWED BY: A.D. Klinksiek	REVIEWED BY: N.R. Simmons	Documented by: Natasha R. Simmons Signature: _____ Date: 9/10/2021
REVISIONS _____ _____ _____	INIT. DATE _____ _____ _____	SIGNATURE DATE _____ _____ _____	SIG. INVENTORY NO. 03-1122