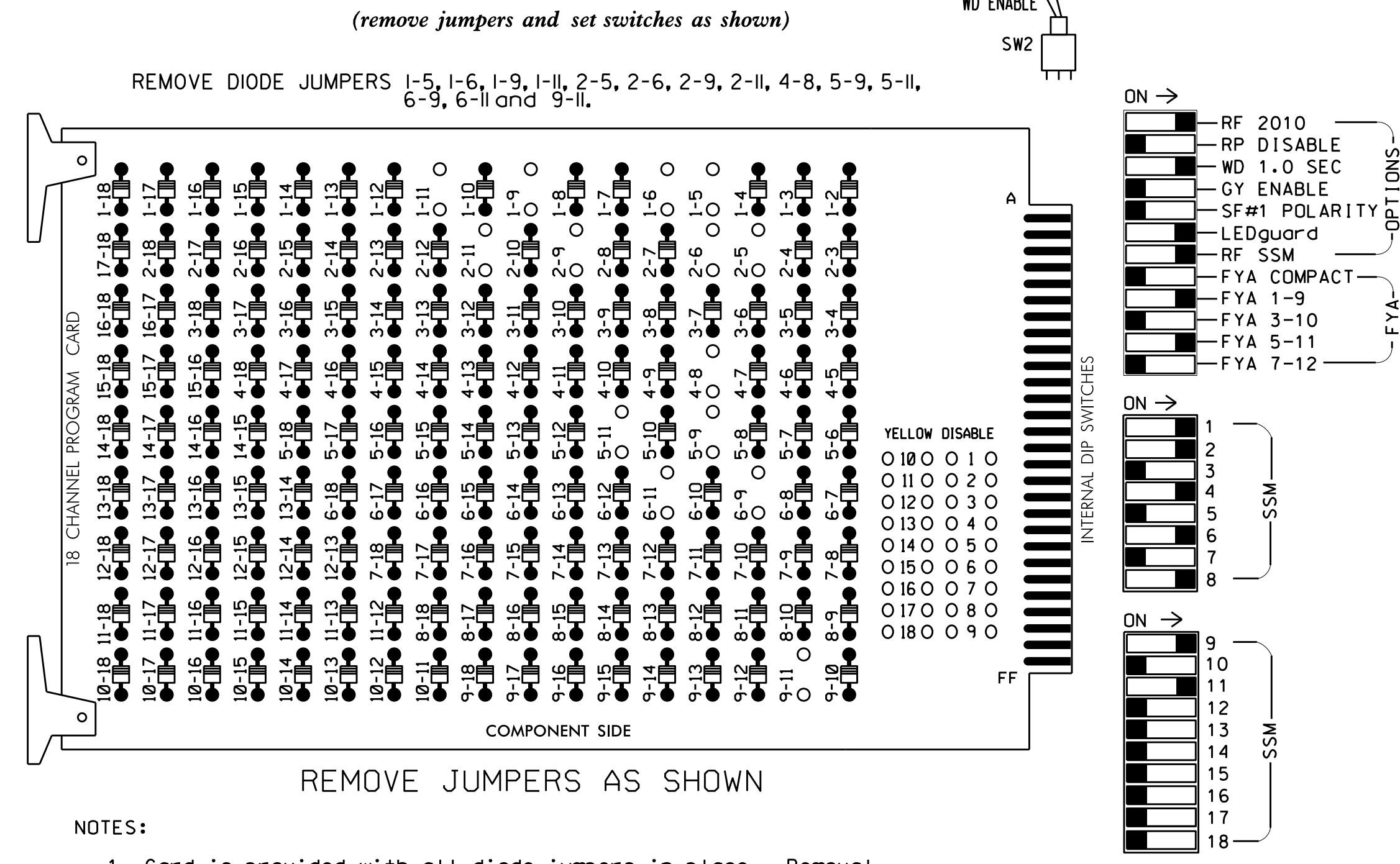


EDI MODEL 2018ECL-NC CONFLICT MONITOR
PROGRAMMING DETAIL
(remove jumpers and set switches as shown)



- 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 overlap 1 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.

EQUIPMENT INFORMATION

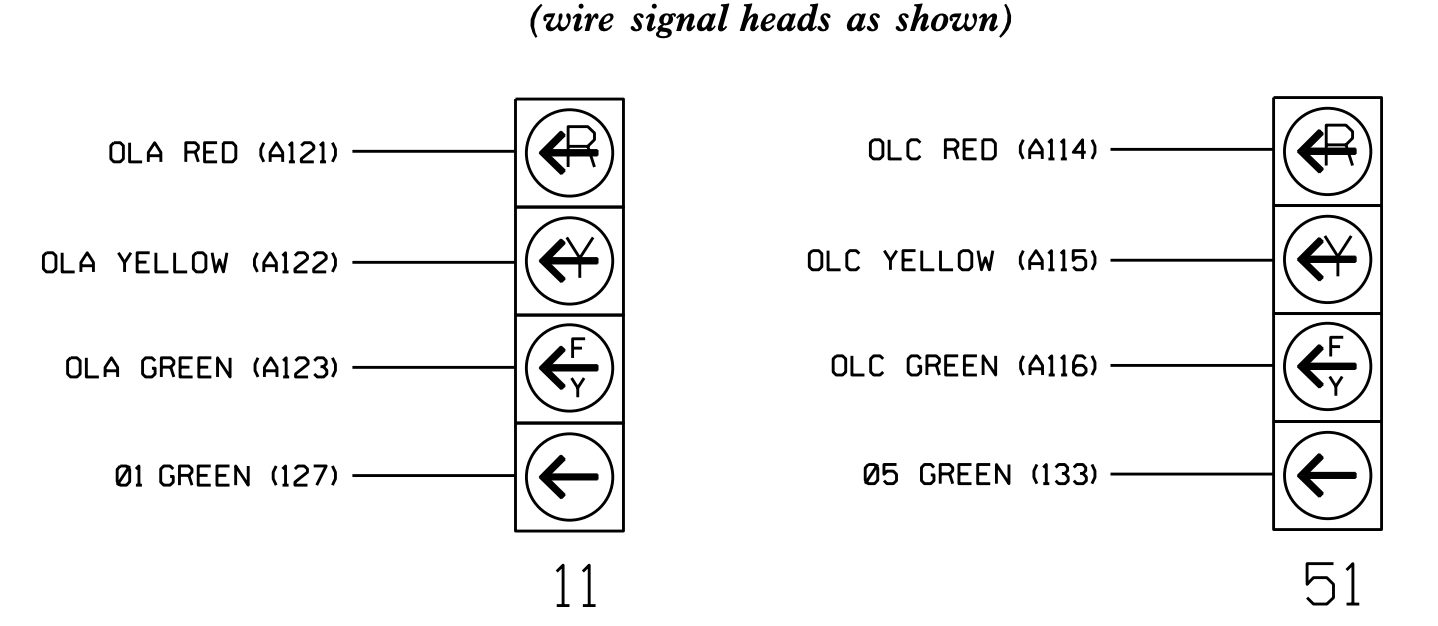
CONTROLLER.....2070
 CABINET.....332 W/ AUX
 SOFTWARE.....ECONOLITE OASIS
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE LOAD SWITCHES USED.....S1,S2,S5,S7,S8,S11,AUXS1,AUX S4
 PHASES USED.....1,2,4,5,6,8
 OVERLAP "A".....1+2
 OVERLAP "B".....NOT USED
 OVERLAP "C".....5+6
 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	82	21,22	NU	NU	41,42	NU	51	61,62	NU	NU	81,82	NU	11	NU	NU	51	NU
RED		*	128			101			134			107						
YELLOW			129			102		*	135			108						
GREEN			130			103			136			109						
RED ARROW														A121				A114
YELLOW ARROW			126											A122				A115
FLASHING YELLOW ARROW														A123				A116
GREEN ARROW	127	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.

FYA SIGNAL WIRING DETAIL



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

INPUT FILE POSITION LAYOUT

(front view)

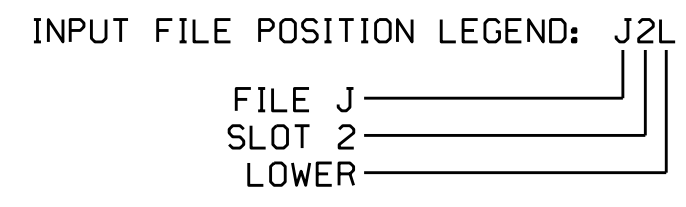
FILE	1	2	3	4	5	6	7	8	9	10	11	12	13	14
U	∅ 1	∅ 1A	∅ 1A	∅ 1A	∅ 1A	∅ 1A	∅ 1A	∅ 1A	∅ 1A	∅ 1A	∅ 1A	∅ 1A	∅ 1A	∅ 1A
L	NOT USED	∅ 1A	∅ 1A	∅ 1A	∅ 1A	∅ 1A	∅ 1A	∅ 1A	∅ 1A	∅ 1A	∅ 1A	∅ 1A	∅ 1A	∅ 1A
U	∅ 5	∅ 5A	∅ 5A	∅ 5A	∅ 5A	∅ 5A	∅ 5A	∅ 5A	∅ 5A	∅ 5A	∅ 5A	∅ 5A	∅ 5A	∅ 5A
L	NOT USED	∅ 5A	∅ 5A	∅ 5A	∅ 5A	∅ 5A	∅ 5A	∅ 5A	∅ 5A	∅ 5A	∅ 5A	∅ 5A	∅ 5A	∅ 5A

EX.: 1A, 2A, ETC. = LOOP NO.'S
 FS = FLASH SENSE
 ST = STOP TIME
 ∅ Wired Input - Do not populate slot with detector card

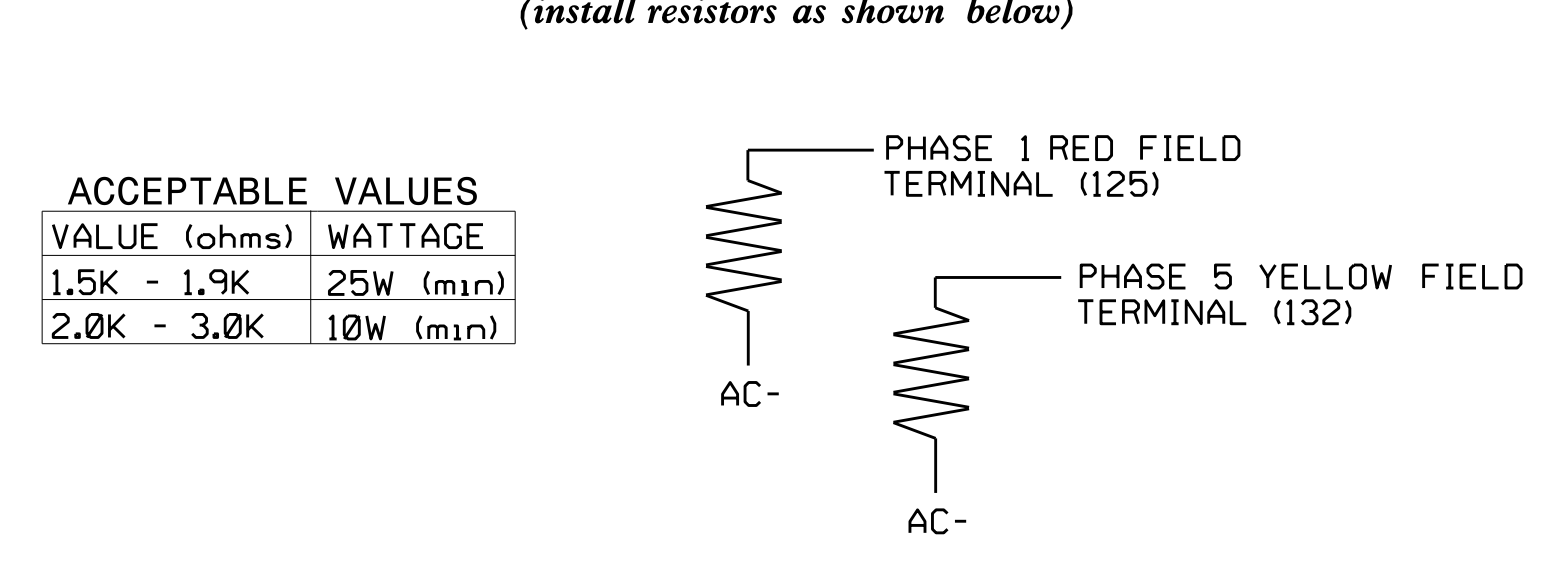
INPUT FILE CONNECTION & PROGRAMMING CHART

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	Y		3
	-	I1U	56	18★	51	1	Y	Y			3
5A ²	TB3-1,2	J1U	55	17	5	5	Y	Y			15
	-	I4U	47	9★	22	2	Y	Y	Y		3
	-	J1U	55	17★	55	5	Y	Y			3

¹Add jumper from I1-W to J4-W, on rear of input file.
²Add jumper from J1-W to I4-W, on rear of input file.
 ★ See Input Page Assignment programming details on sheets 3 and 4.



LOAD RESISTOR INSTALLATION DETAIL



DETECTOR NOTES

- For all loops install a video detection system for vehicle detection. Perform installation according to manufacturer's directions and NCDOT engineer-approved mounting locations to accomplish the detection schemes shown on the Signal Design Plans.
- For loops 1A and 5A, detector card placement and slots reserved for wired input are typical for a NCDOT installation. Input associated with these slots are compatible with time of day instructions located on sheets 3 and 4 of this electrical detail.

Electrical Detail - Sheet 1 of 5

Electrical and Programming Details For: NC 42 (Main Street) at SR 1520 (Rosser Road) and Magneti Marelli Driveway, Lee County, Sanford, Division 8

Prepared for the Offices of: G.U. Transportation, Mobility and Safety Division, NORTH CAROLINA DEPARTMENT OF TRANSPORTATION, Office of Signal Management

Plan Date: April 2022, Reviewed By: Zarrar Zafar, Prepared By: Zarrar Zafar, Reviewed By: [Signature]

750 N. Greenfield Pkwy, Garner, NC 27529

Division 8, Lee County, Sanford

SEAL: NORTH CAROLINA PROFESSIONAL ENGINEER, SEAL 031001, D. Todd Joyce, 04/20/2022

DocuSign by: D. Todd Joyce, 04/20/2022

SIG. INVENTORY NO. 08-101812

20-Apr-2022 11:10 AM
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