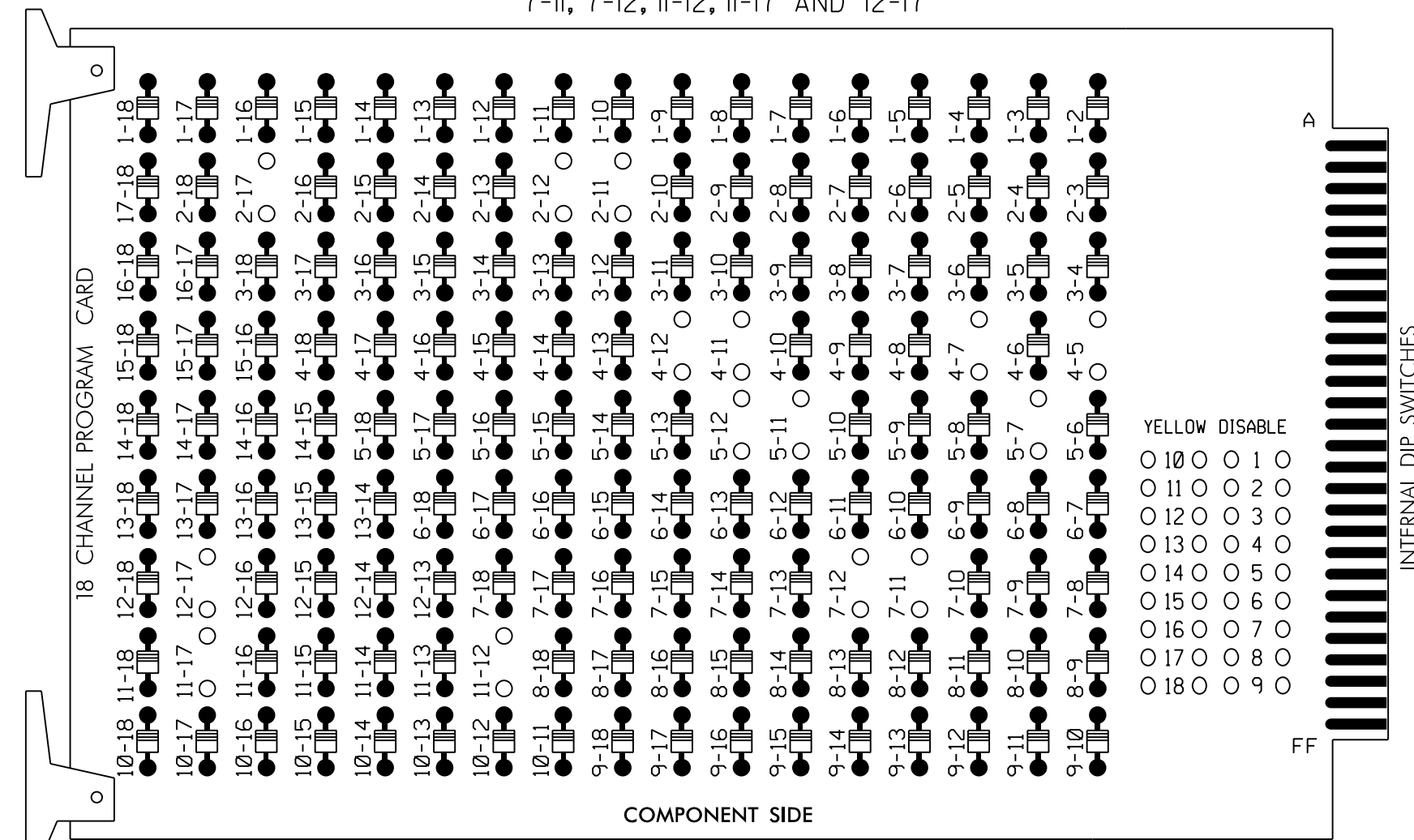


### 18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)

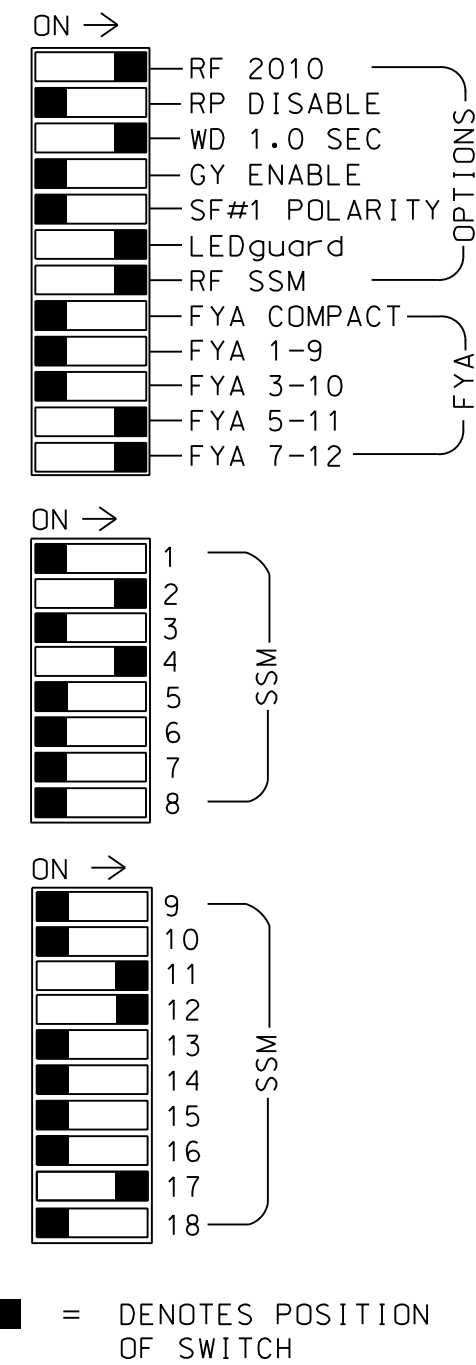
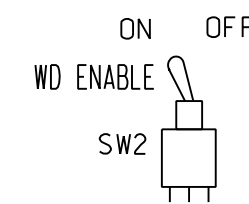
REMOVE DIODE JUMPERS 2-II, 2-12, 2-17, 4-5, 4-7, 4-II, 4-12, 5-7, 5-II, 5-12, 7-II, 7-12, II-12, II-17 AND I2-17



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.
- 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 phases 4 and 7 for Dual Entry.
- Enable Simultaneous Gap-Out for all Phases.
- Program phase 2 for Variable Initial and Gap Reduction.
- Program phase 2 for Startup In Green.
- Program phase 2 for Yellow Flash.
- The cabinet and controller are part of the Winston-Salem Signal System.

### 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.....S2,S5,S7,S10,AUX S3,AUX S4,  
 AUX S5  
 PHASES USED.....2,4,7  
 OVERLAP "A".....NOT USED  
 OVERLAP "B".....NOT USED  
 OVERLAP "C".....2+7  
 OVERLAP "D".....2+7  
 OVERLAP "E".....2  
 OVERLAP "G".....7

### 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	OLG	6	6 PED	7	8	8 PED	OLA	OLB	OLE	OLC	OLD	SPARE
SIGNAL HEAD NO.	NU	21	22	NU	NU	41,42,43	NU	72	NU	71	NU	NU	NU	NU	23	72	71	NU
RED		128	128												A111			
YELLOW		129	129				*			*								
GREEN			130															
RED ARROW						101										A114	A101	
YELLOW ARROW						102									A112	A115	A102	
FLASHING YELLOW ARROW															A113	A116	A103	
GREEN ARROW		130				103	133			124								

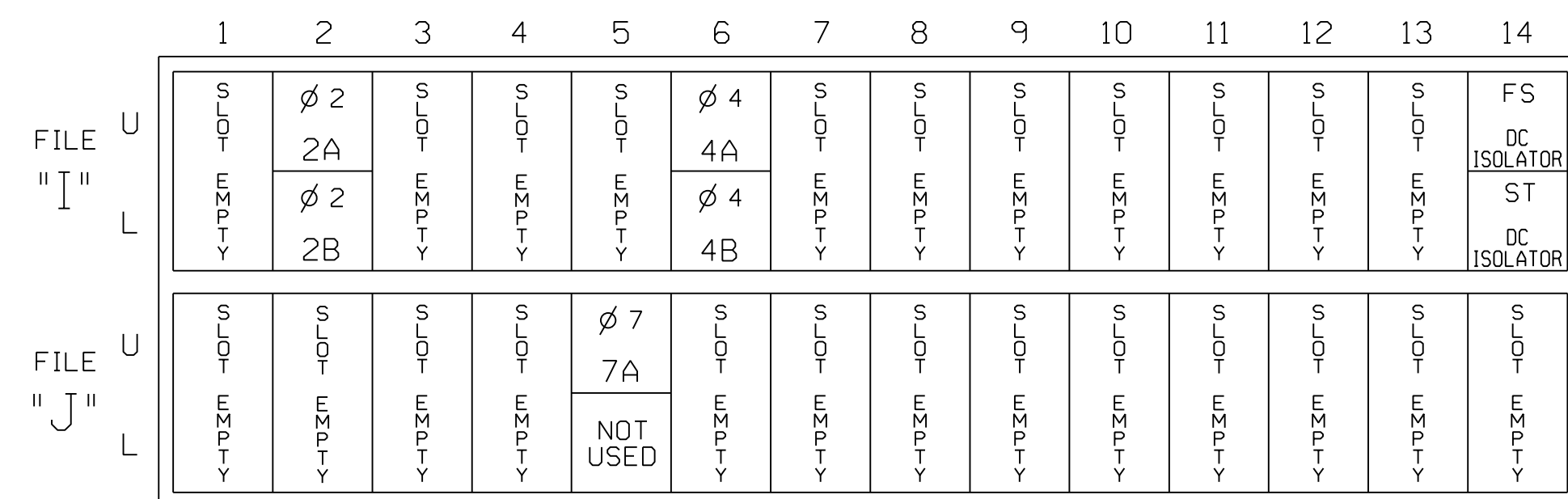
NU = Not Used

\* 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

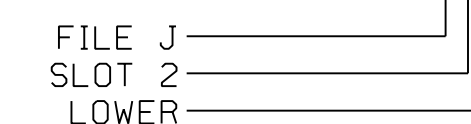
FS = FLASH SENSE  
 ST = STOP TIME

### 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
2A	TB2-5,6	I2U	39	1	2	2	Y	Y			
2B	TB2-7,8	I2L	43	5	12	2	Y	Y			
4A	TB4-9,10	I6U	41	3	4	4	Y	Y			15
4B	TB4-11,12	I6L	45	7	14	4	Y	Y			15
7A	TB5-5,6	J5U	57	19	7	7	Y	Y			15
	-	J5U	57	19	57	7	Y	Y			

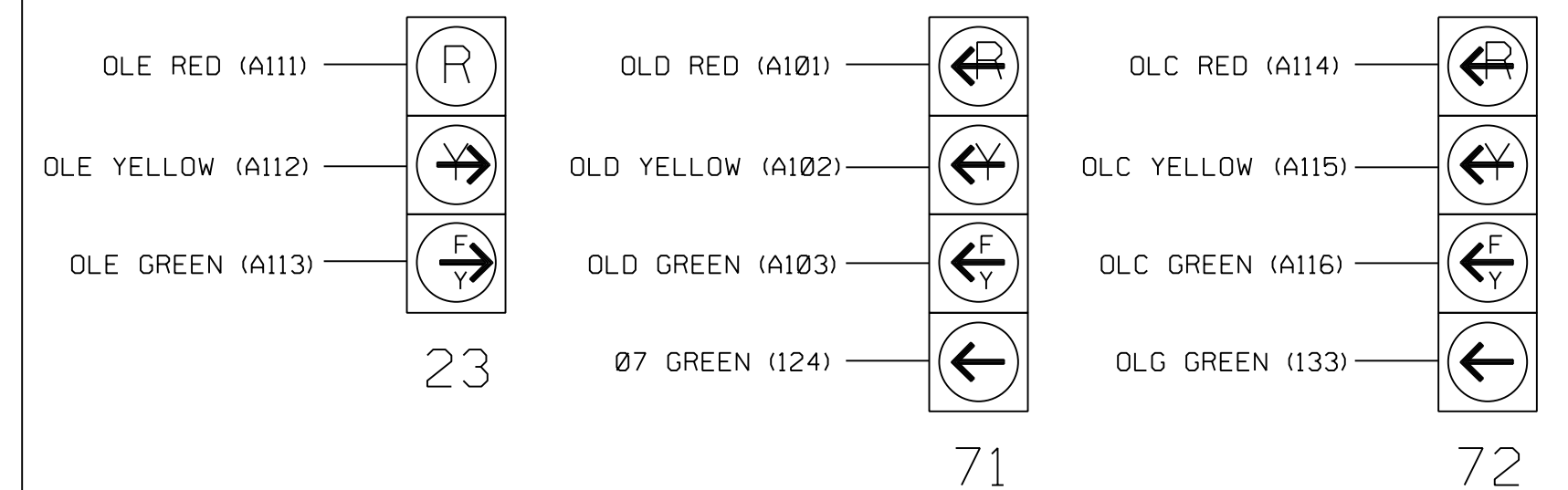
\* See Input Assignment Programming Details for Alternate Phasing on sheet 4.

INPUT FILE POSITION LEGEND: J2L



### FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)

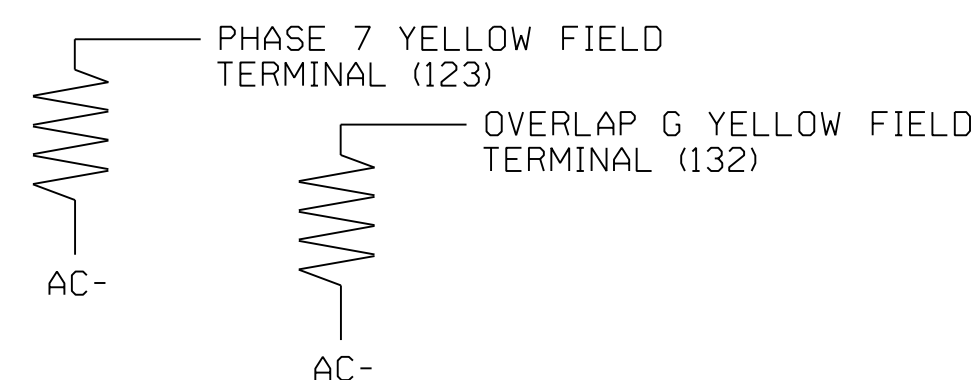


NOTE

The sequence display for heads 71 and 72 require special logic programming. See sheet 2 for programming instructions.

### LOAD RESISTOR INSTALLATION DETAIL

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



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 09-0195  
 DESIGNED: February 2024  
 SEALED: February 12, 2024  
 REVISED:

**RK&K**  
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 Engineers | Construction Managers | Planners | Scientists  
 Responsive People | Creative Solutions

Signal Upgrade - Final Design  
 Electrical Detail - Sheet 1 of 5

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Prepared For the Offices of:

US 158 EB (Reidsville Rd.)  
 at  
 SR 2662 (Old Greensboro Rd.)

Division 9 Forsyth County Winston-Salem  
 PLAN DATE: February 2024 REVIEWED BY: DT Sears  
 PREPARED BY: WP Erickson-Jones REVIEWED BY:

REVISIONS	INIT.	DATE

DocuSign by  
  
 PORTER JONES  
 2/12/2024  
 SIGNATURE DATE  
 SIG. INVENTORY NO. 09-0195