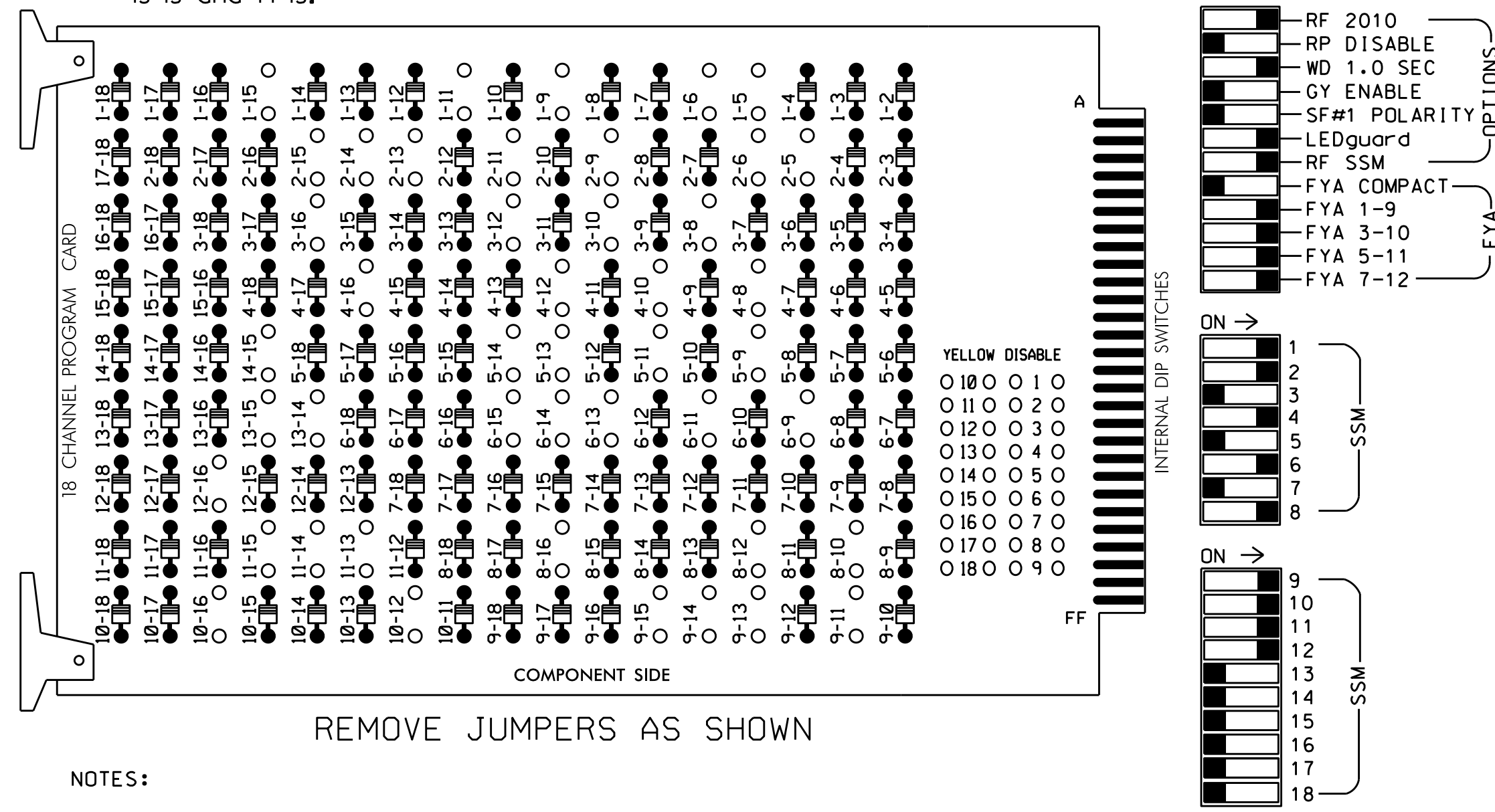


18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(remove jumpers and set switches as shown)
 REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-11, 1-15, 2-5, 2-6, 2-9, 2-11, 2-13, 2-14, 2-15, 3-8, 3-10, 3-12, 3-16, 4-8, 4-10, 4-12, 4-16, 5-9, 5-11, 5-13, 5-14, 6-9, 6-11, 6-13, 6-14, 6-15, 8-10, 8-12, 8-16, 9-11, 9-13, 9-14, 9-15, 10-12, 10-16, 11-13, 11-14, 11-15, 12-16, 13-14, 13-15 and 14-15.



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 controller to start up in phases 2 and 6 Green/Don't Walk.
- Enable simultaneous gap-out feature for all phases.
- Program phases 4 and 8 for dual entry.
- The cabinet and controller are part of the Raleigh Signal System.

EQUIPMENT INFORMATION

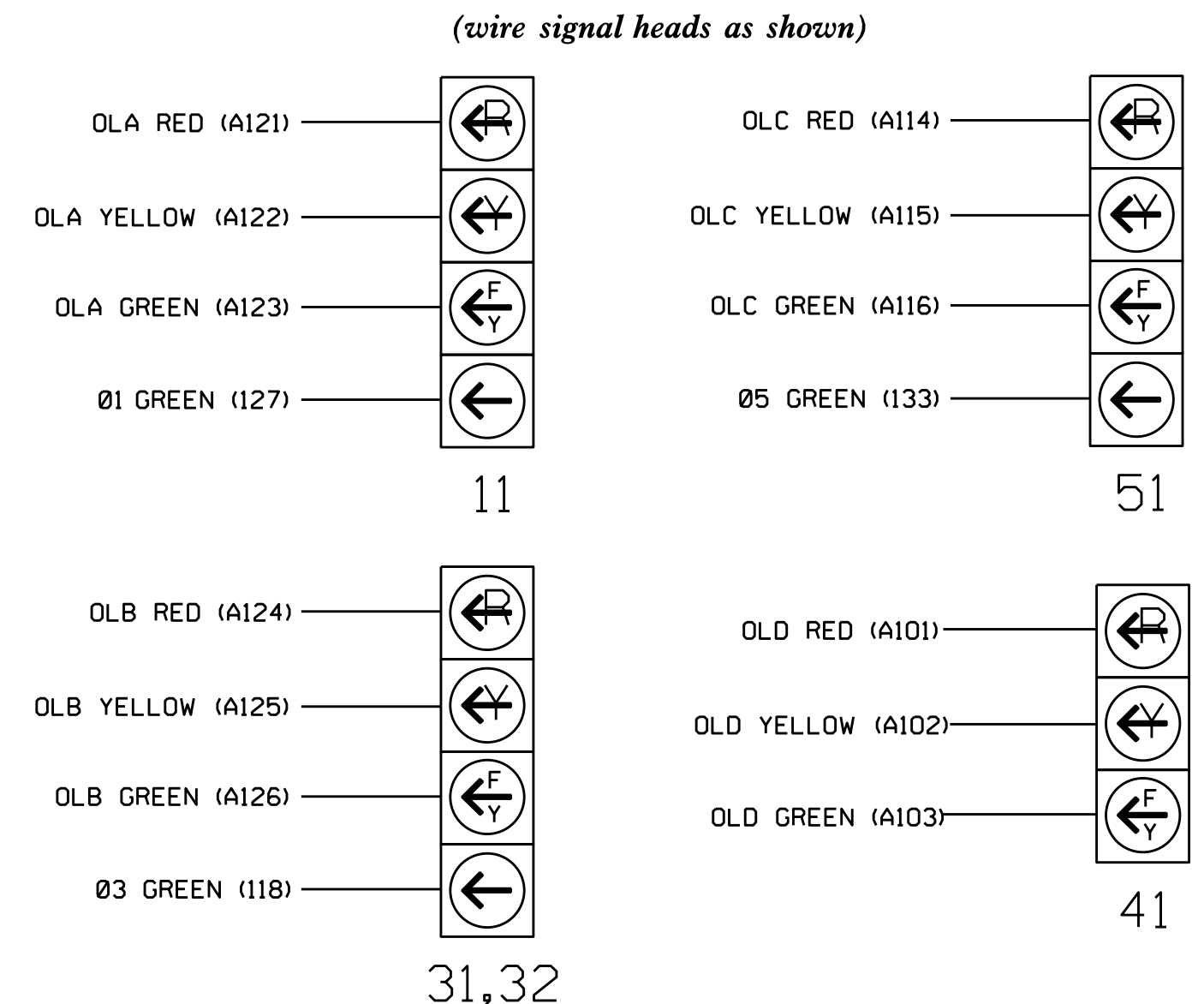
CONTROLLER.....2070LX
 CABINET.....332 W/ AUX
 SOFTWARE.....SE-PAC2070
 CABINET MOUNT.....BASE
 OUTPUT FILE POSITIONS...18 WITH AUX. OUTPUT FILE
 LOAD SWITCHES USED.....S1,S2,S3,S4,S5,S6,S7,S8,S9,S11,S12,
 AUX S1,AUX S2,AUX S4,AUX S5
 PHASES USED.....1,2,PED,3,4,5,6,6PED,8,8PED,9**,
 9PED
 OVERLAP "A".....*
 OVERLAP "B".....*
 OVERLAP "C".....*
 OVERLAP "D".....*
 * See sheet 2 for Overlap Programming Detail
 ** Phase used for timing purposes only.

SIGNAL HEAD HOOK-UP CHART

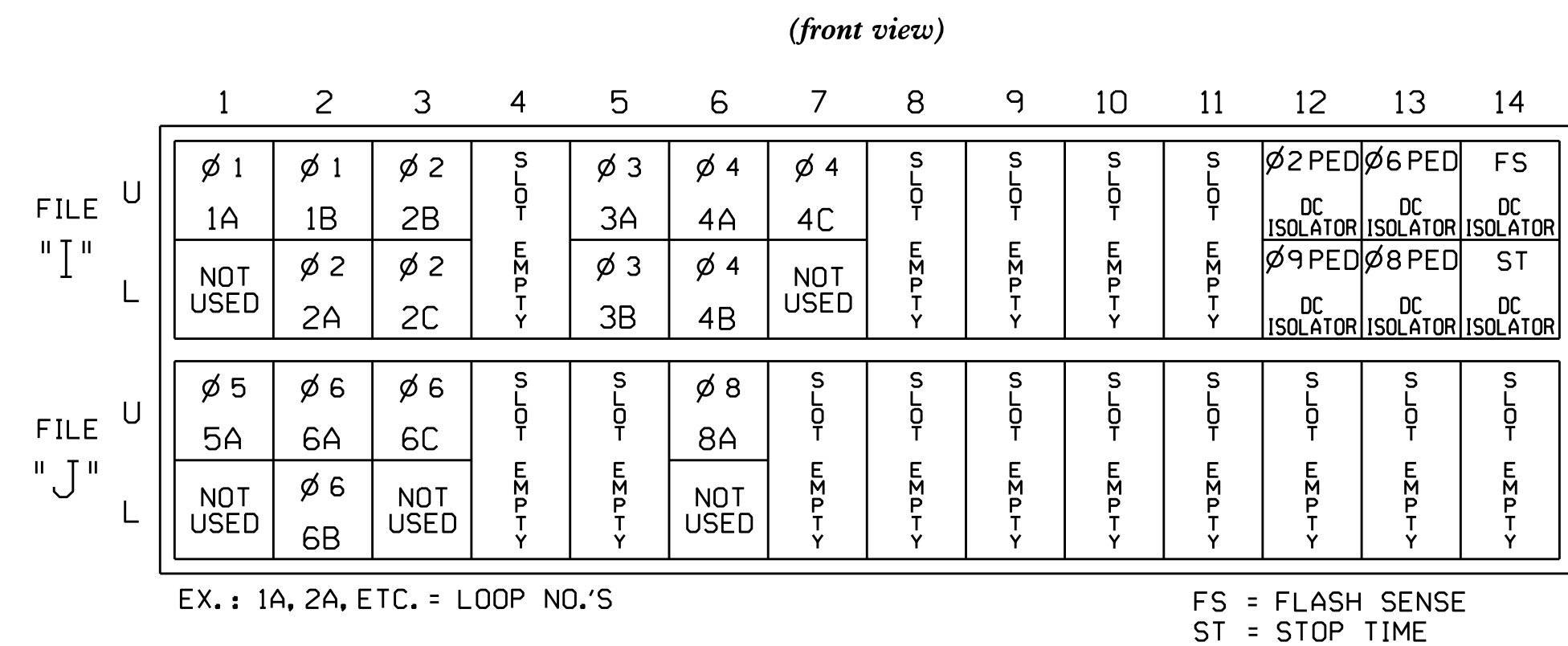
LOAD SWITCH NO.	S1	S2	S3	S4	S5	S6	S7	S8	S9	S10	S11	S12	AUX S1	AUX S2	AUX S3	AUX S4	AUX S5	AUX S6			
CMU CHANNEL NO.	1	2	13	3	4	14	5	6	15	7	8	16	9	10	17	11	12	18			
PHASE	1	2	2 PED	3	4	9 PED	5	6	6 PED	7	8	8 PED	OLA	OLB	SPARE	OLC	OLD	SPARE			
SIGNAL HEAD NO.	11*	82,83	21,22,23	P21, P22	31,32	42,43,44	P91, P92	BLANK OUT SIGN	51*	61,62,63,64	P61, P62	NU	81,82,83	P81, P82	11*	31,32	NU	51*	41*	NU	
RED	*	128			101			134		107											
YELLOW		129		*	102			* 135		108											
GREEN		130			103			136		109											
RED ARROW													A121	A124		A114	A101				
YELLOW ARROW		126											A122	A125		A115	A102				
FLASHING YELLOW ARROW													A123	A126		A116	A103				
GREEN ARROW	127	127			118			133													
PED YELLOW									** 105			119		110							
									** 106			121		112							

NU = Not Used
 * Denotes install load resistor. See load resistor installation detail this sheet.
 ** See Blankout sign wiring detail on sheet 3.
 ★ See pictorial of head wiring in detail this sheet.

FYA SIGNAL WIRING DETAIL



INPUT FILE POSITION LAYOUT

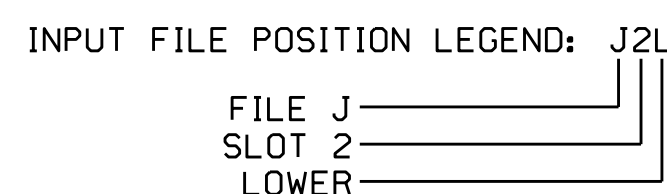
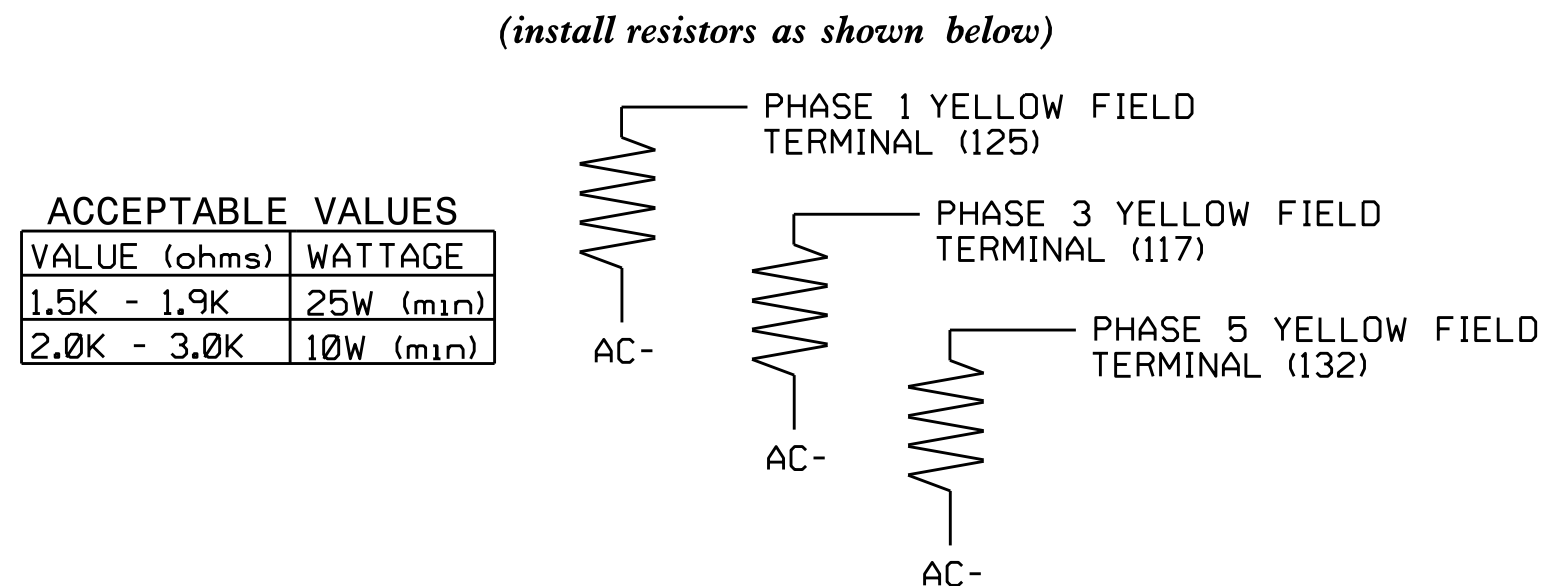


INPUT FILE CONNECTION & PROGRAMMING CHART

LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	DELAY TIME	EXTEND (STRETCH) TIME
1A	TB2-1,2	11U	56	1	1	5	
1B	TB2-5,6	12U	39	3	1	15	
2A	TB2-7,8	12L	43	4	2		
2B	TB2-9,10	13U	63	5	2		
2C	TB2-11,12	13L	76	6	2		
3A	TB4-5,6	15U	58	9	3	5	
3B	TB4-7,8	15L	58	9	3	5	
4A	TB4-9,10	16U	41	11	4	3	
4B	TB4-11,12	16L	45	12	4	10	
4C	TB6-1,2	17U	65	13	4	15	
5A	TB3-1,2	J1U	55	19	5	5	
6A	TB3-5,6	J2U	40	21	6		
6B	TB3-7,8	J2L	44	22	6		
6C	TB3-9,10	J3U	64	23	6		
8A	TB5-9,10	J6U	42	31	8		
PED PUSH BUTTONS							
P21,P22	TB8-4,6	112U	67	PED 2	2 PED		
P91,P92	TB8-5,6	112L	69	PED 4	9 PED		
P61,P62	TB8-7,9	113U	68	PED 6	6 PED		
P81,P82	TB8-8,9	113L	70	PED 8	8 PED		

NOTE:
 INSTALL DC ISOLATORS IN INPUT FILE SLOTS 112 AND 113.

LOAD RESISTOR INSTALLATION DETAIL



Electrical Detail - Sheet 1 of 5

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-1156
 DESIGNED: January 2023
 SEALED: 01/03/2023
 REVISED: N/A

Electrical and Programming Details For:

 Prepared in the Offices of:

 750 N. Greenfield Pkwy, Corner, NC 27529

SR 2000 (Falls of Neuse Rd.)
 at
 SR 2012 (Litchford Rd.)
 Division 5 Wake County Raleigh
 PLAN DATE: January 2023 REVIEWED BY:
 PREPARED BY: S.Kirkpatrick REVIEWED BY:
 REVISIONS: INIT. DATE

SEAL
 DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED
 SEAL 036833
 Ryan W. Houff
 01/11/2023
 SIG. INVENTORY NO. 05-1156

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