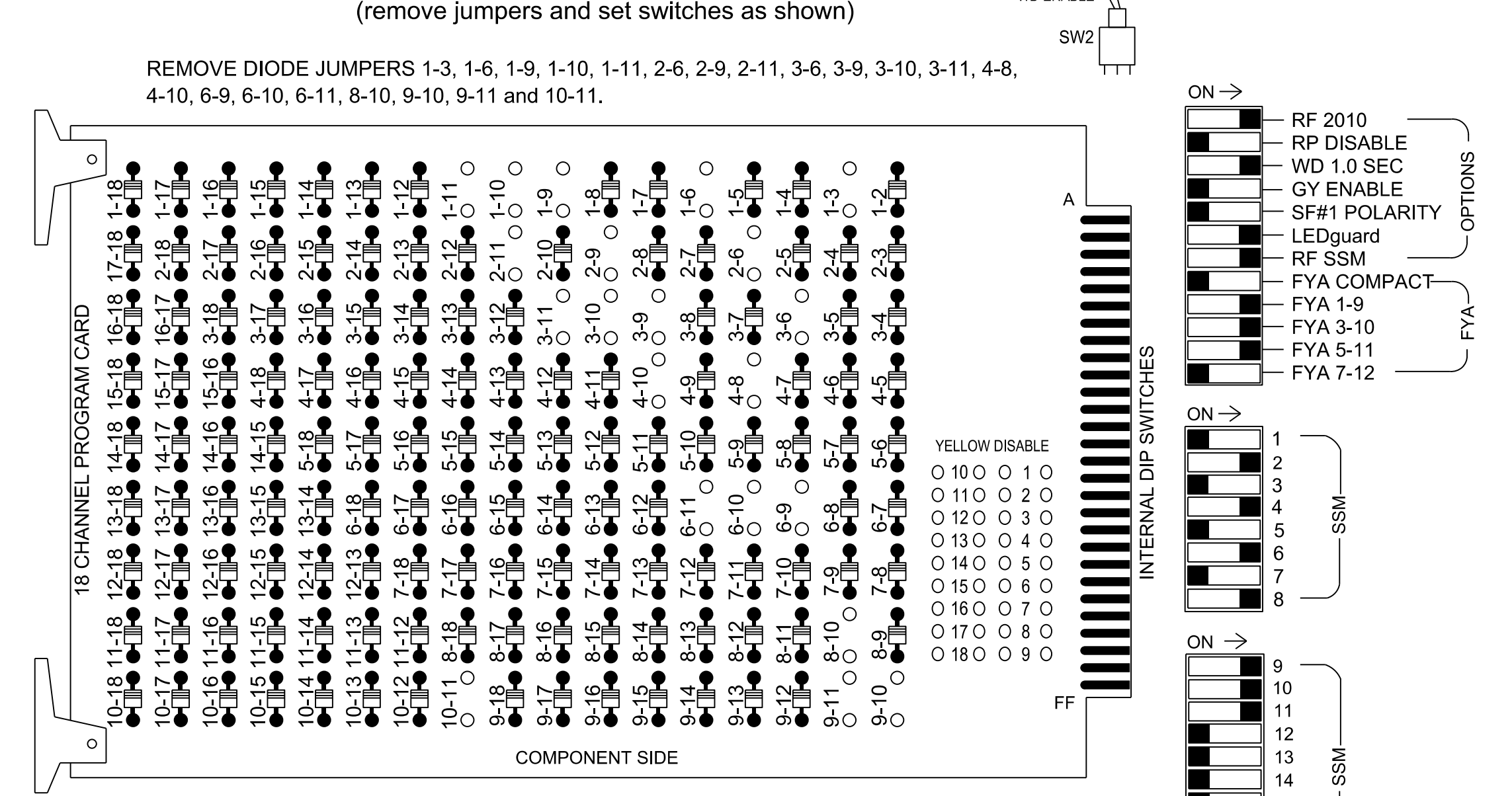


### 18 CHANNEL CONFLICT MONITOR PROGRAMMING DETAIL

(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 the 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 plan.
  - Program phases 4 and 8 for Dual Entry.
  - Program controller to start up in phase 2 Green No Walk and 6 Green No Walk.
  - 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 NC 87/ SR 2817 (Barnes Street) Closed Loop System. Signal System #: D07-10 Reidsville.

### EQUIPMENT INFORMATION

Controller.....2070LX  
 Cabinet.....332 w/ Aux  
 Software.....Q-Free MAXTIME  
 Cabinet Mount.....BASE  
 Output File Positions.....18 With Aux. Output File  
 Load Switches Used.....S1, S2, S4, S5, S8, S11, AUX S1, AUX S2, AUX S4  
 Phases Used.....1, 2, 4, 6, 8  
 Overlap "1".....\*  
 Overlap "2".....\*  
 Overlap "3".....\*  
 Overlap "4".....NOT USED

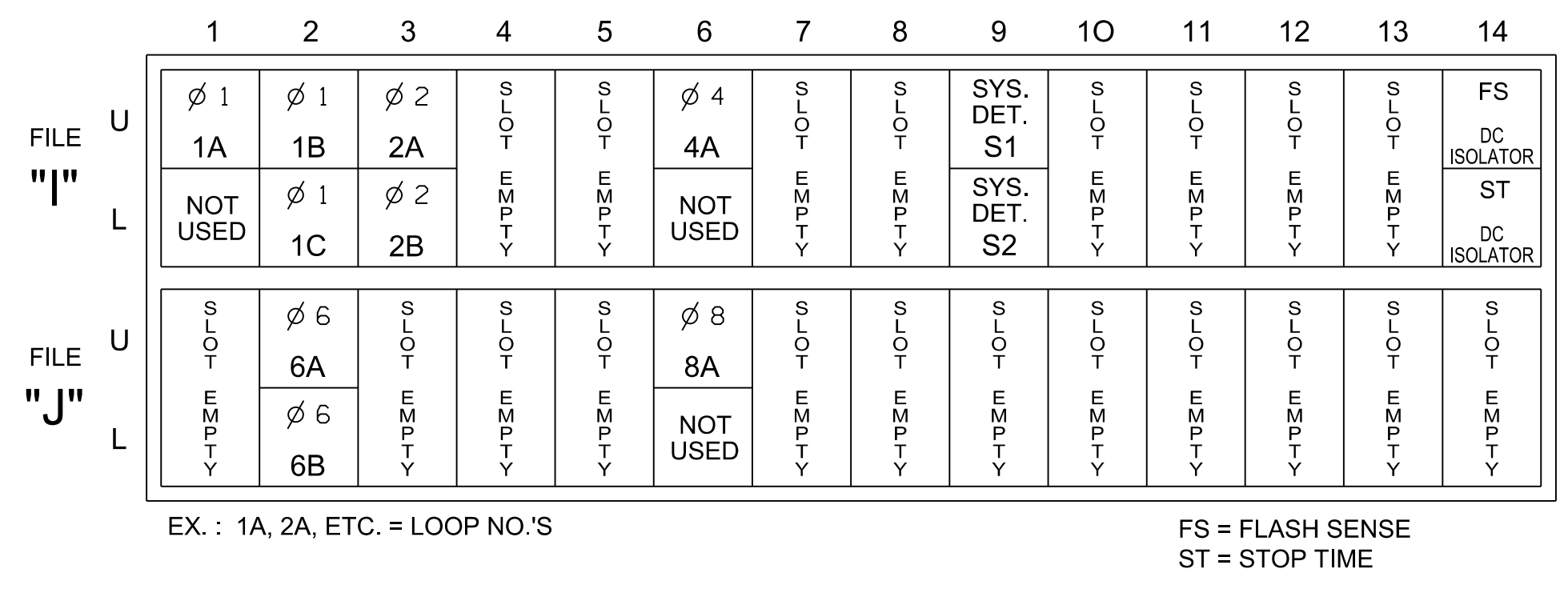
\*See overlap programming detail on sheet 2

### 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	1	4	4 PED	5	6	6 PED	7	8	8 PED	OL1	OL2	SPARE	OL3	OL4	SPARE
SIGNAL HEAD NO.	11	22,23	NU	83	41,42	NU	NU	61,62	NU	NU	81,82	NU	11	83	NU	21	NU	NU
RED		128			101			134			107			A124				
YELLOW	*	129		*	102			135			108							
GREEN		130			103			136			109							
RED ARROW													A121			A114		
YELLOW ARROW													A122	A125		A115		
FLASHING YELLOW ARROW													A123	A126		A116		
GREEN ARROW	127				118													

NU = Not Used  
 \* Denotes install load resistor. See load resistor installation detail this sheet.  
 \* See pictorial of head wiring in detail this sheet.

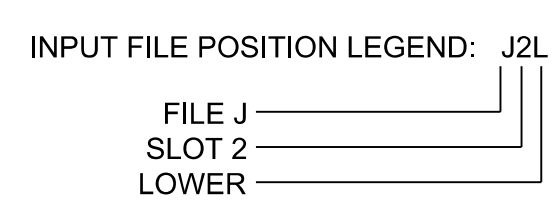
### INPUT FILE POSITION LAYOUT (front view)



### INPUT FILE CONNECTION & PROGRAMMING CHART

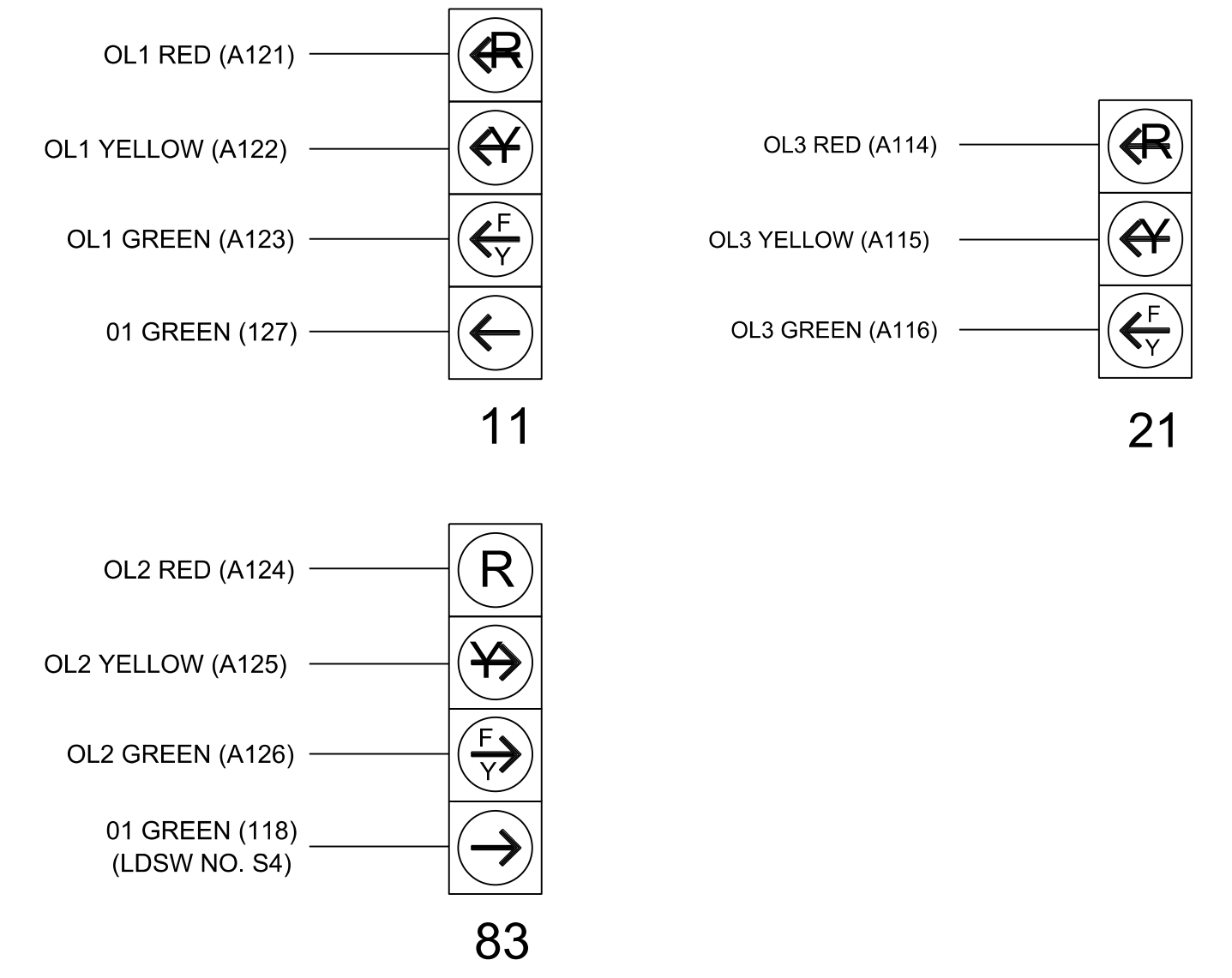
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	INPUT POINT	DETECTOR NO.	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND	ADDED INITIAL	QUEUE	CALL	PASSAGE 2
1A	TB2-1,2	I1U	56	18	1	1	15		X			X	
1B	TB2-5,6	I2U	39	1	29	6			X			X	X
1C	TB2-7,8	I2L	43	5	3	1	15		X			X	
2A	TB2-9,10	I3U	63	29	4	2			X			X	
2B	TB2-11,12	I3L	76	42	5	2			X			X	X
4A	TB4-9,10	I6U	41	3	8	4	10		X			X	
*S1	TB6-9,10	I9U	60	22	13	SYS			X				
*S2	TB6-11,12	I9L	62	24	14	SYS			X				
6A	TB3-5,6	J2U	40	2	16	6			X			X	
6B	TB3-7,8	J2L	44	6	17	6			X			X	
8A	TB5-9,10	J6U	42	4	22	8	3		X			X	

\*System detector only. Remove any assigned vehicle phase.



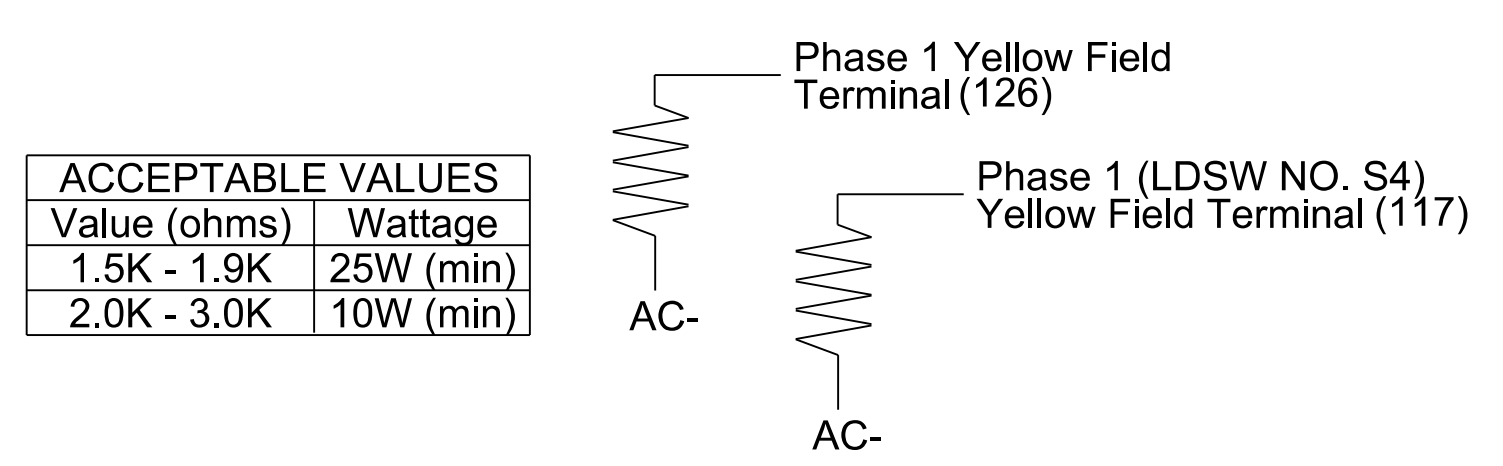
### FYA SIGNAL WIRING DETAIL

(wire signal heads as shown)



### LOAD RESISTOR INSTALLATION DETAIL

(install resistors as shown)



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 07-1622  
 DESIGNED: Jan 2023  
 SEALED: 3/10/2023  
 REVISED:



Final Design  
 Electrical Detail - Sheet 1 of 2

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL  
 PROFESSIONAL ENGINEER  
 HEMANG M. SURTI  
 034481

Prepared for the Offices of:  
 Transportation Mobility and Safety Division  
 NORTH CAROLINA DEPARTMENT OF TRANSPORTATION  
 Signal Management Section

750 N. Greenfield Pkwy, Garner, NC 27529

SR 2817 (Barnes Street) at Watlington Industrial Drive

Division 7 Rockingham County Reidsville

PLAN DATE: January 2023 REVIEWED BY: H M Surti  
 PREPARED BY: A Ravipti REVIEWED BY:

REVISIONS	INIT.	DATE

DocuSigned by:  
 Hemang M. Surti 3/10/2023  
 SIG. INVENTORY NO. 07-1622

3/10/2023 10:54:30 AM C:\Users\paw.bent\OneDrive\Documents\60581577-NCDDT-SMU-BR-0041-300-CAD-0154910-CAD\70-NCDDT-TIP\FYSIGNALS\DESIGN\EE\FR1.CAD Detail 1.svd-2022\MAXTIME\_3-10-23\4071622-sm.ele\_2022\XXX.dgn