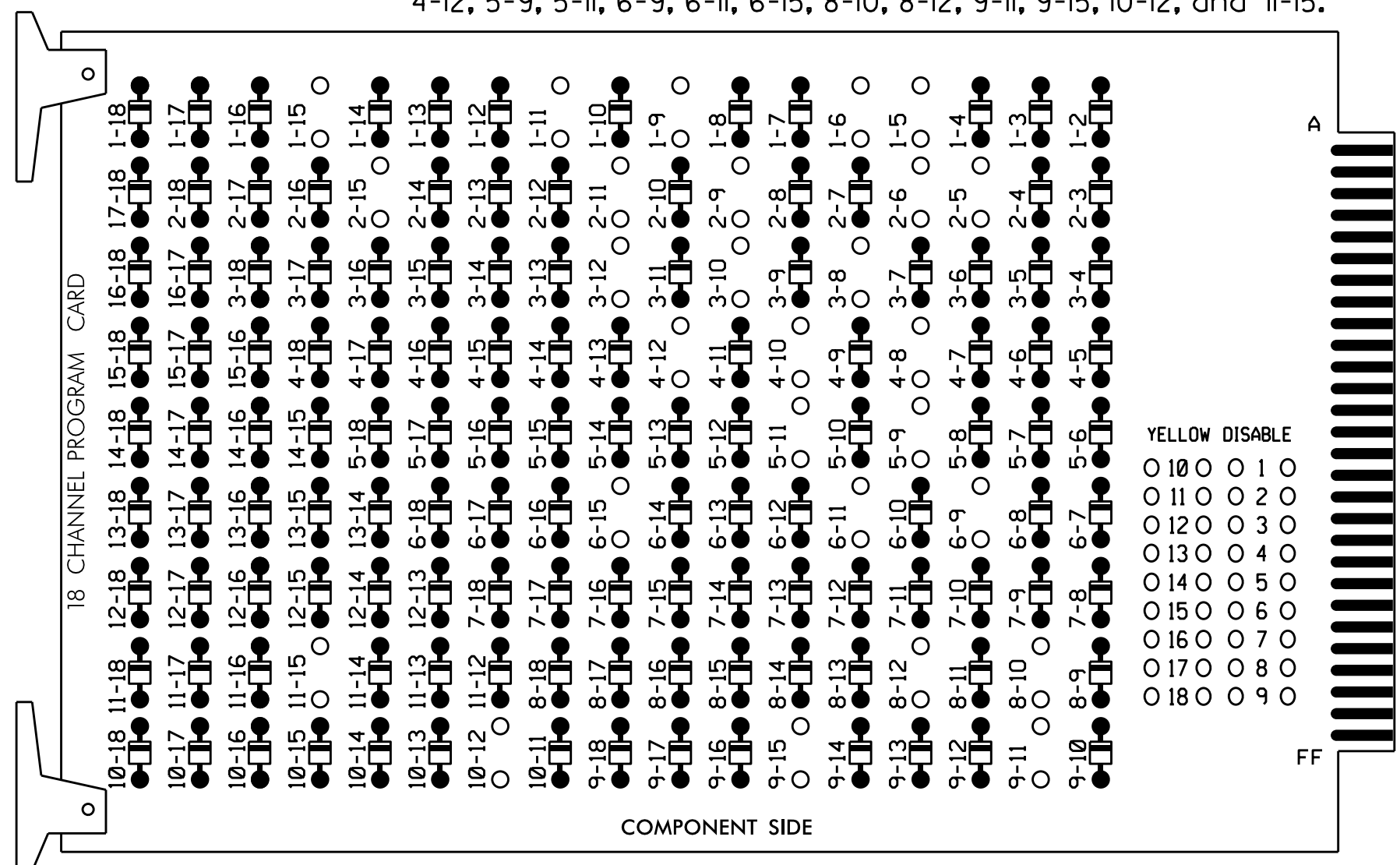


**EDI MODEL 2018ECL-NC CONFLICT MONITOR PROGRAMMING DETAIL**

(remove jumpers and set switches as shown)

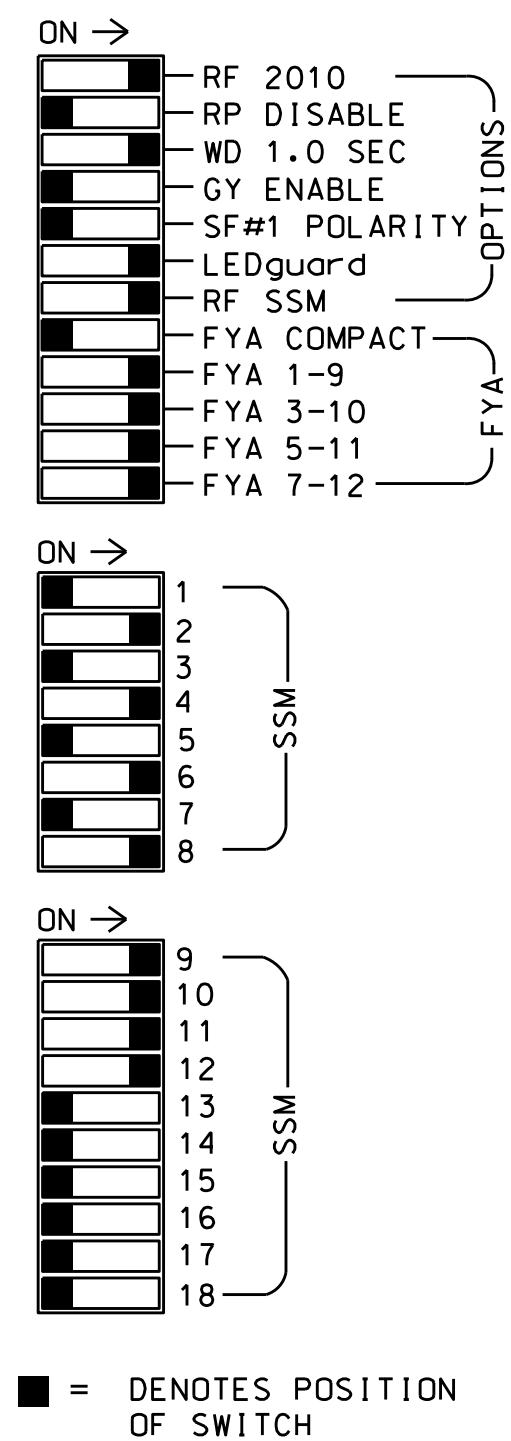
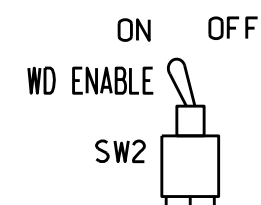
REMOVE DIODE JUMPERS 1-5, 1-6, 1-9, 1-11, 1-15, 2-5, 2-6, 2-9, 2-11, 2-15, 3-8, 3-10, 3-12, 4-8, 4-10, 4-12, 5-9, 5-11, 6-9, 6-11, 6-15, 8-10, 8-12, 9-11, 9-15, 10-12, and 11-15.



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.
- Enable simultaneous gap-out feature for all phases.
- Program phases 4 and 8 for dual entry.
- Program phases 2 and 6 for volume density operation.
- 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,S4,S5,S7,S8,S9,S11,  
 AUX S1,AUX S2,AUX S4,AUX S5  
 PHASES USED.....1,2,3,4,5,6,6PED,8  
 OVERLAP "A".....1+2  
 OVERLAP "B".....3+4  
 OVERLAP "C".....5+6  
 OVERLAP "D".....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	
EMU 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	21,22	NU	31,32	42,43	NU	51	61,62 63	P61, P62	NU	81,82	NU	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																A122	A125	A115	A102
FLASHING YELLOW ARROW																A123	A126	A116	A103
GREEN ARROW	127			118			133												
Hand icon										119									
Person icon											121								

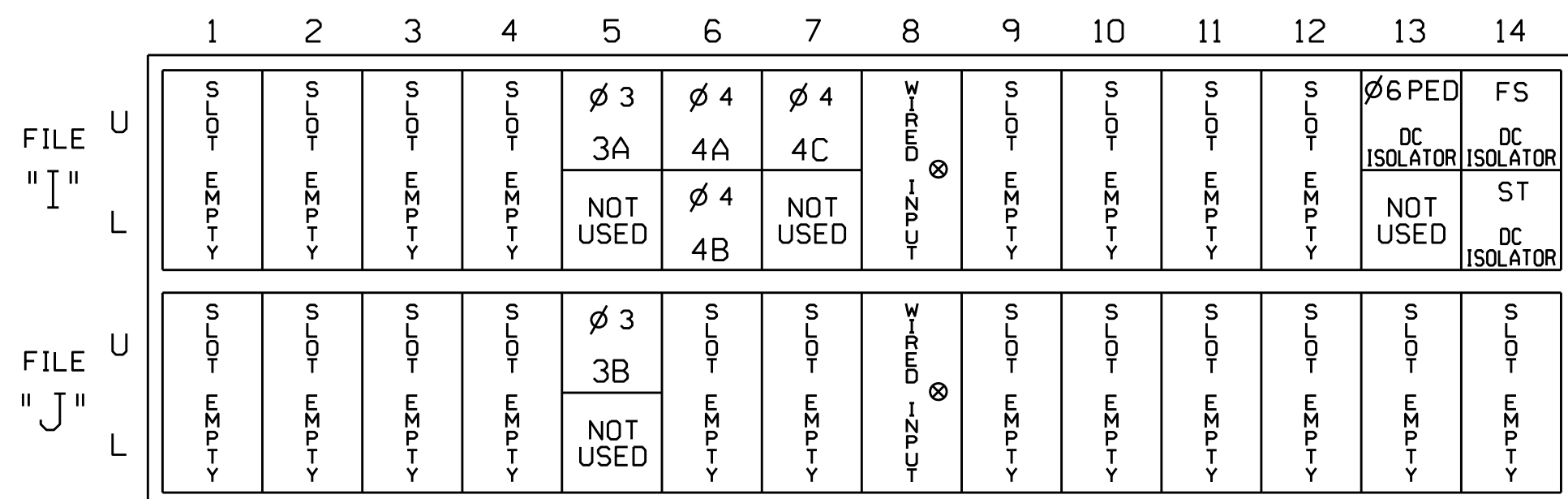
NU = Not Used

\* 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

⊗ Wired Input - Do not populate slot with detector card

**INPUT FILE CONNECTION & PROGRAMMING CHART**

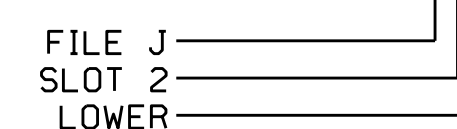
LOOP NO.	LOOP TERMINAL	INPUT FILE POS.	PIN NO.	DETECTOR NO.	NEMA PHASE	DELAY TIME	EXTEND (STRETCH) TIME
3A <sup>1</sup>	TB4-5,6	J5U	58	9	3	15	
	-	J8U	50	35	8	3	
3B <sup>2</sup>	TB5-5,6	J5U	57	29	3	15	
	-	J8U	49	15	8		
4A	TB4-9,10	J6U	41	11	4	3	
4B	TB4-11,12	J6L	45	12	4	10	
4C	TB6-1,2	J7U	65	13	4	15	
PED PUSH BUTTONS							
P61,P62	TB8-7,9	J13U	68	PED 6	6 PED		

NOTE:  
 INSTALL DC ISOLATORS IN INPUT FILE SLOT I13.

<sup>1</sup>Add jumper from J5-W to J8-W, on rear of input file.

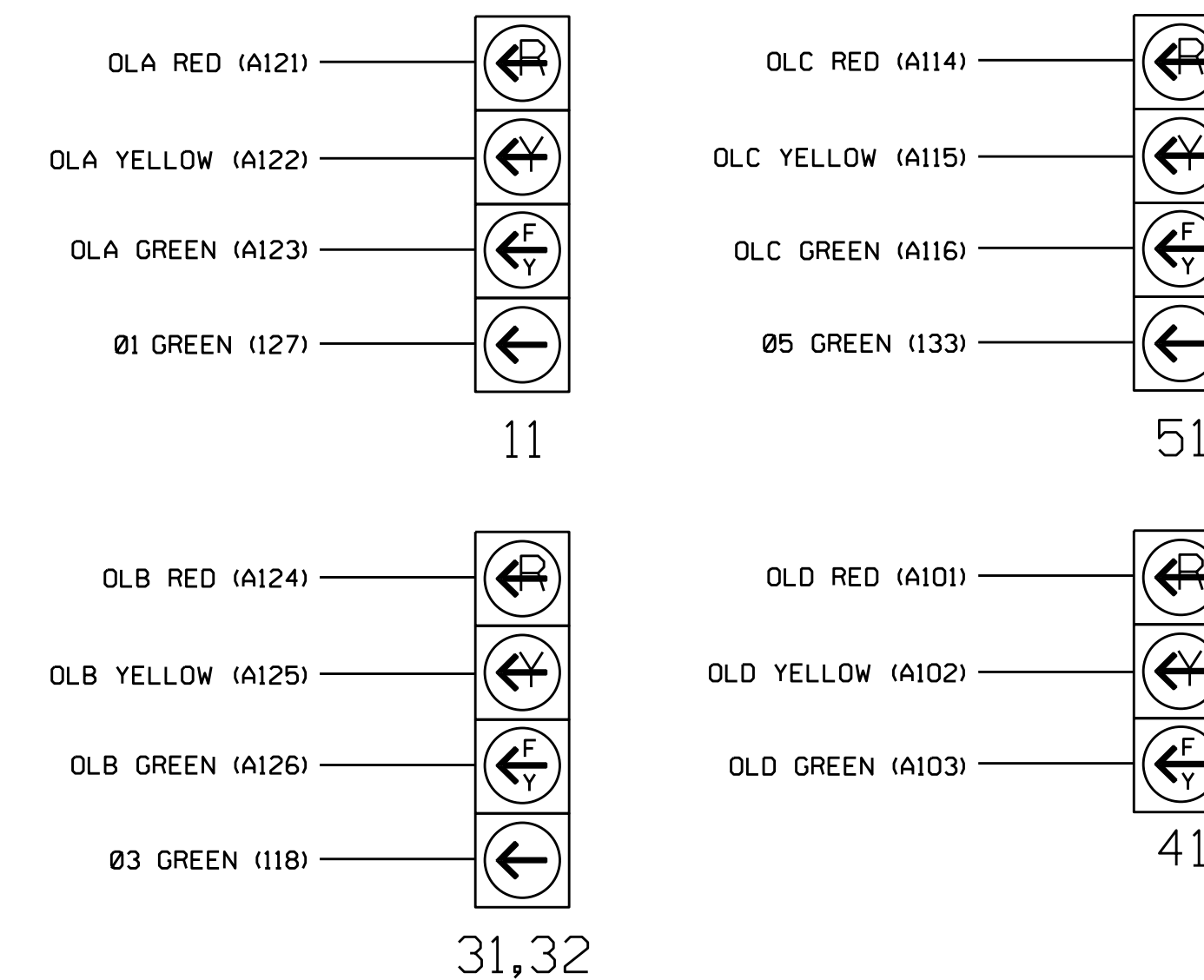
<sup>2</sup>Add jumper from J5-W to J8-W, on rear of input file.

INPUT FILE POSITION LEGEND: J2L



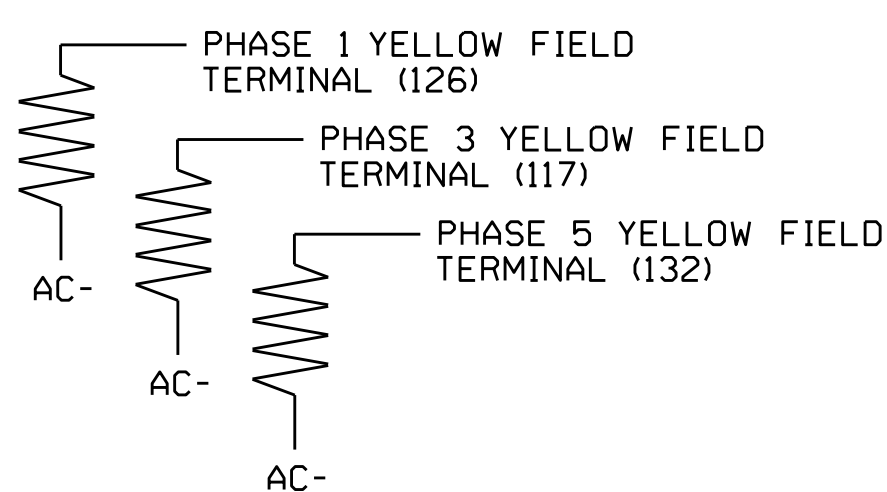
**FYA SIGNAL WIRING DETAIL**

(wire signal heads as shown)



**LOAD RESISTOR INSTALLATION DETAIL**

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



**SPECIAL DETECTOR NOTE**

For zones 1A, 2A, 2B, 3A, 3B, 5A, 6A, 6B and 8A, install a video detection system. 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 zones 1A, 3A, 3B and 5A, the equipment placement and slots reserved for wired inputs are typical for a NCDOT installation.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 05-1156T2  
 DESIGNED: July 2019  
 SEALED: 8/29/2019  
 REVISED: N/A

Electrical Detail - Temp. Design 2 (TMP Phase II) - Sheet 1 of 2

Electrical and Programming Details For: SR 2000 (Falls of Neuse Rd.) at SR 1212 (Litchford Rd.)

Prepared In the Offices of: [Logo]

Division 5 Wake County Raleigh

PLAN DATE: October 2021 REVIEWED BY: [Signature]

PREPARED BY: S. Armstrong REVIEWED BY: [Signature]

REVISIONS: [Table]

750 N. Greenfield Pkwy, Garner, NC 27529

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL

RYAN W. HOUGH

Professional Engineer

SEAL 036833

ENGINEER

RYAN W. HOUGH

DocuSigned by: Ryan W. Hough 03/07/2022

SIG. INVENTORY NO. 05-1156T2