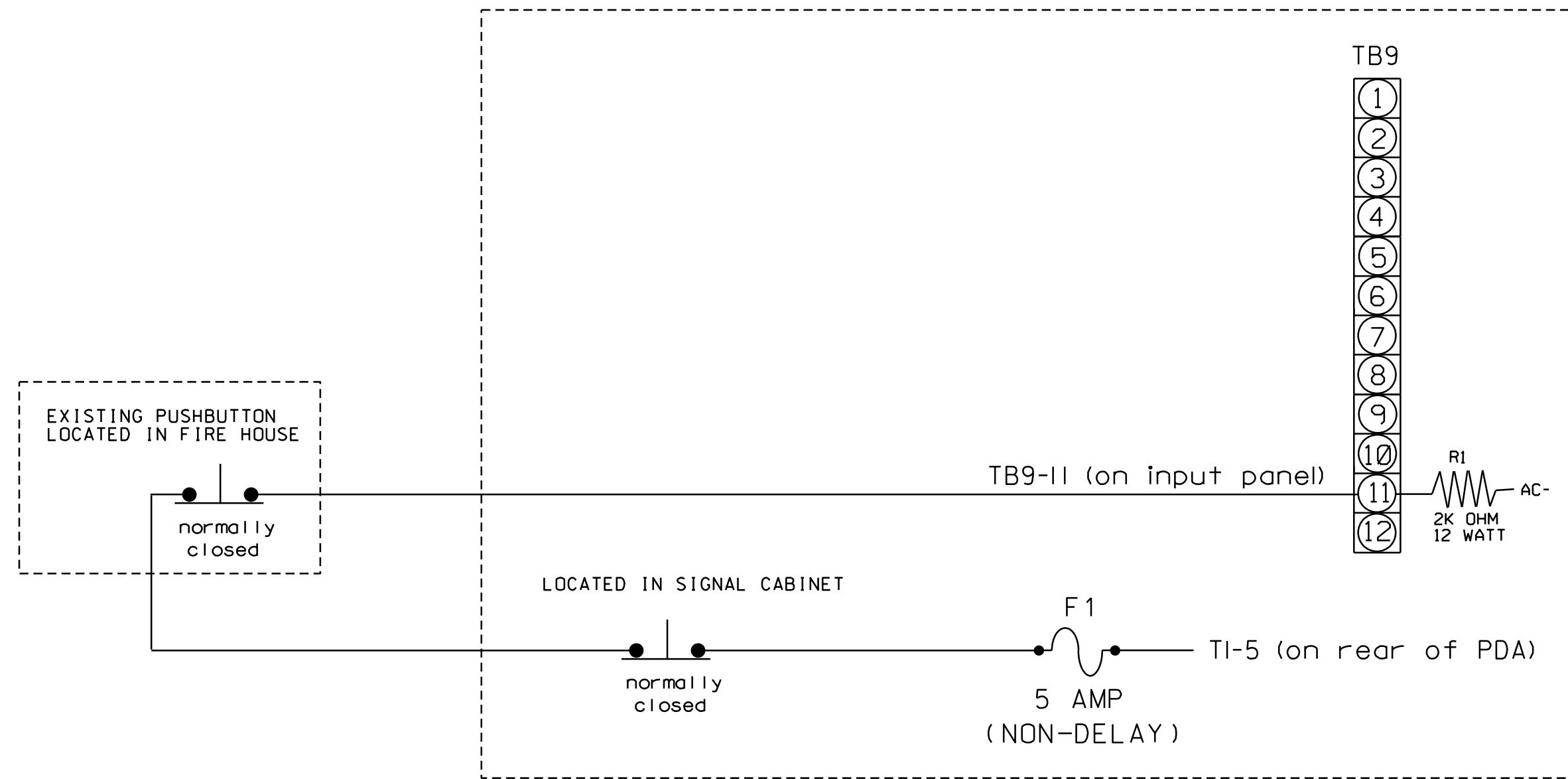


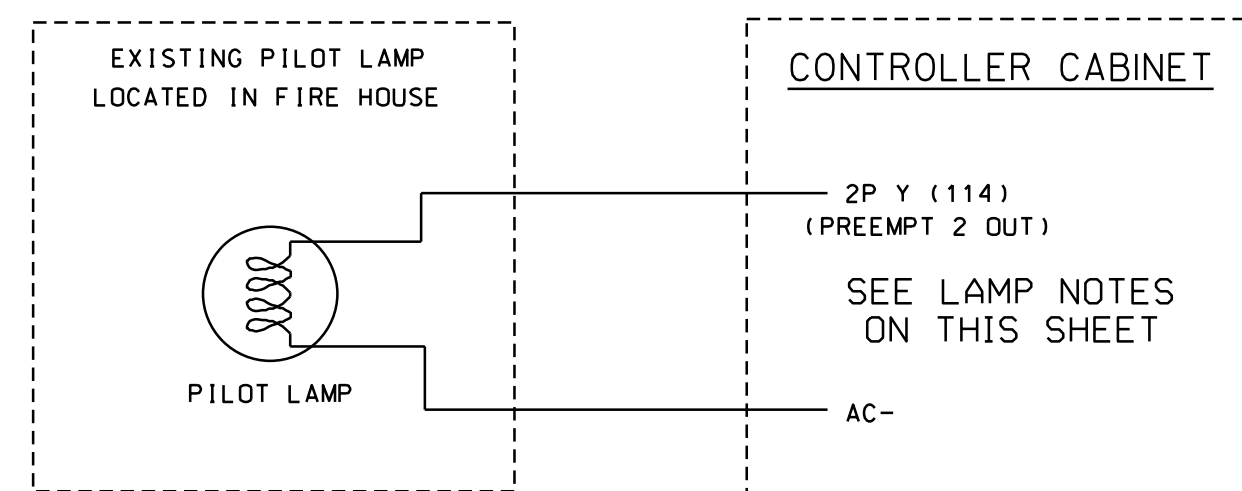
## EMERGENCY VEHICLE PREEMPTION PUSHBUTTON AND INDICATOR LAMP WIRING DETAIL

(wire push-button and lamp as shown below)



### IMPORTANT!

1. Make sure AC isolator inserted in Slot J14L is set for inverted input.
2. Connect terminal TB9-12B (on input panel) to AC neutral (jumper may need to be added).

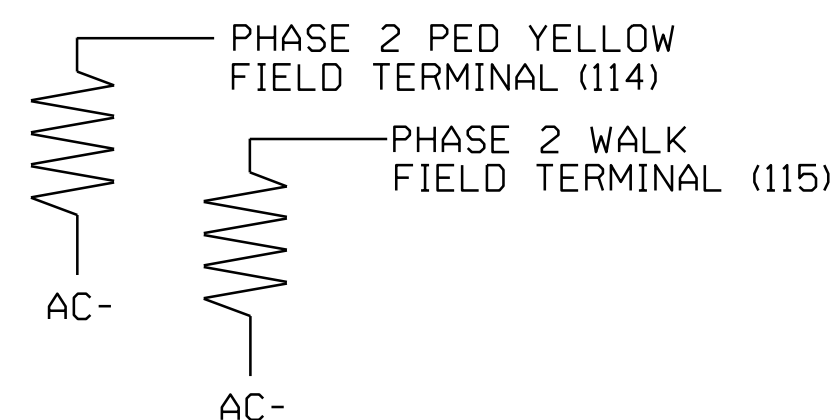


### LAMP NOTES

In order for the pilot lamp in the fire house to function, make the following programming changes to Output No. 33:

1. Change the function of C1 pin 35 to be an output for Preempt 2. This is accomplished by the following:
  - A) From Main Menu select '6' (Outputs). Then select '1' (Output Assignments).
  - B) Scroll to C1 pin 35, Output No. 33. You will see that it is not enabled.
  - C) Scroll down to Preempt and input 'YES'. You will then be asked for a preempt number. Enter a '2' here.
  - D) The output is now assigned for PRE-2 output.
2. If field terminal 114 has a conflict monitor wire attached, remove, tape, and label wire.
3. Make sure load resistors are in place as shown in the Load Resistor Installation Detail.
4. Install a loadswitch in Output File Slot S2P.

### LOAD RESISTOR INSTALLATION DETAIL



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

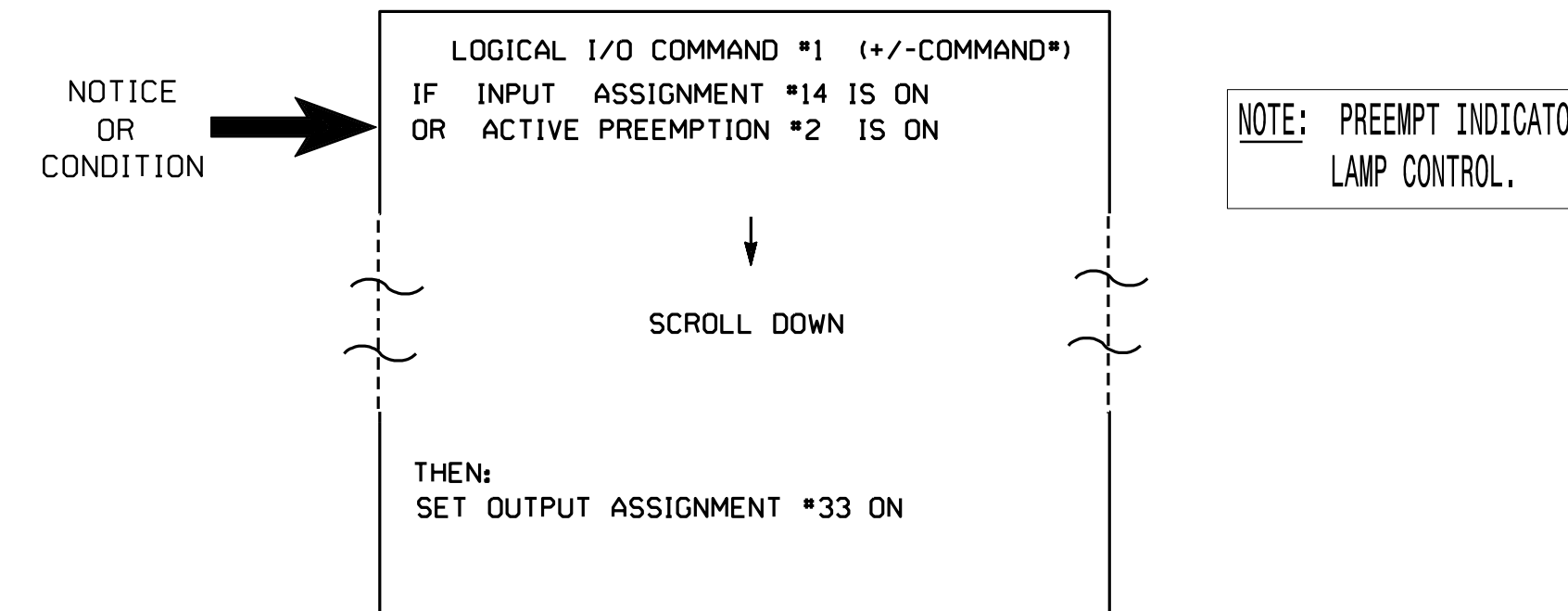
## LOGICAL I/O PROCESSOR PROGRAMMING DETAIL FOR SPECIAL OPERATIONS

### NOTE

When preempt delay time is used, Step 1 below is necessary to ensure the pilot lamp in the fire house will activate immediately after the push button is depressed:

### STEP 1

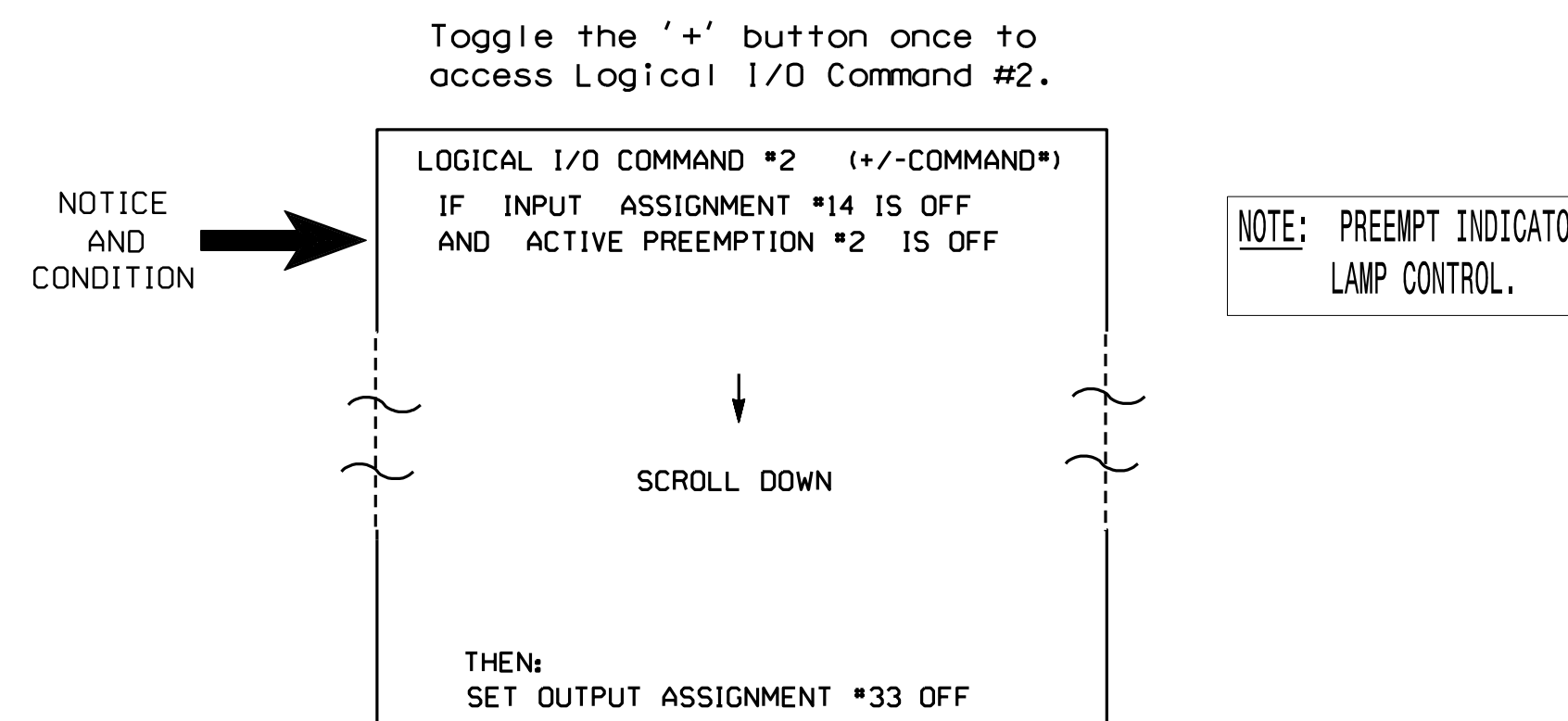
From Main Menu: Press '6' (Outputs), then select '3' (Logical I/O Processor).



### STEP 2

### NOTE

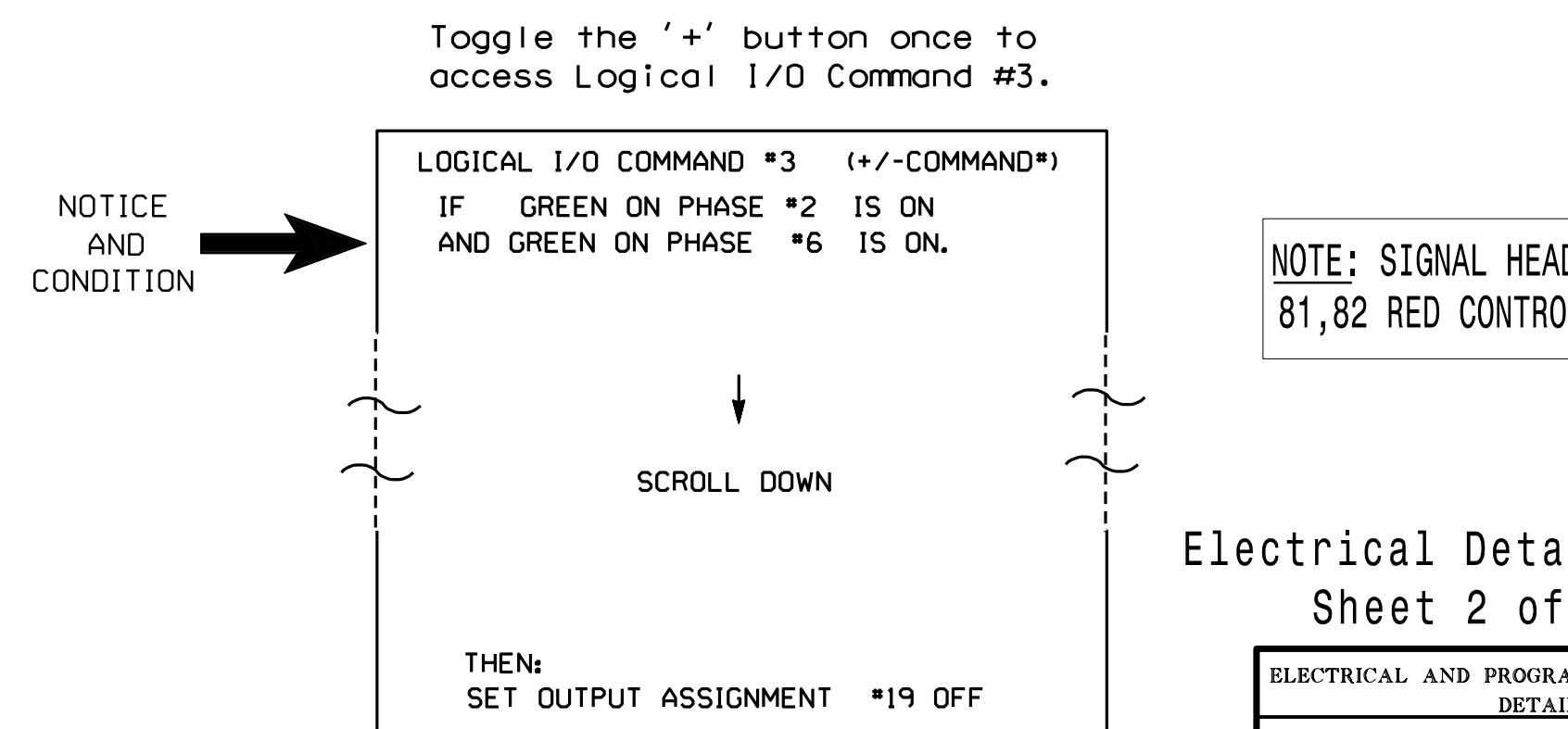
In order for pilot lamp in fire house to deactivate immediately after ending preemption, program the following:



### STEP 3

### NOTE

In order to clear signal heads 81,82 from dark to a steady red during clearance intervals 1 and 2, program the following:



### STEP 4

From Main Menu press '2' (Phase Control), then '1' (Phase Control Functions). Scroll to the bottom of the menu and enable logical processor (Act Logic 1-16) by flagging #1, #2 and #3.

END OF PROGRAM.

## EMERGENCY VEHICLE PREEMPTION PROGRAMMING DETAIL

(program controller as shown below)

From Main Menu press 'A' (Preemption), then '1' (Standard Preemptions). Press 'NEXT' to advance to Preemption #2.

PREEMPTION #2	INTERVAL/TIMING	SETTINGS (NEXT:1-10)	CLEAR/DWELL PHASES
1	255 3.0 3.1		12345678910111213141516
2	0 0.0 0.0		X
3	0 0.0 0.0		
4	0 0.0 0.0		
5	1 0.0 0.0	X X	

EXIT CALLS

OPTIONS

PRIORITY (Y/N TO SELECT) .....MED  
 DELAY TIMER (0-255 SEC) .....\*  
 MIN GREEN BEFORE PRE (0= DEFAULT)....1  
 PED CLEAR BEFORE PRE (0= DEFAULT)....0  
 YELLOW CLEAR BEFORE PRE (0= DEFAULT).0.0  
 RED CLEAR BEFORE PRE (0= DEFAULT)....0.0  
 DWELL MIN TIMER (0-255 SEC) .....\*  
 DWELL MAX TIMER (0=OFF,1-255MIN) ....0  
 DWELL HOLD-OVER TIMER (0-255) .....0  
 LATCH CALL? .....Y  
 LINK TO NEXT PREEMPT? .....N  
 ENABLE BACKUP PROTECTION? .....N  
 HOLD CLEAR 1 PHASES DURING DELAY? ...N  
 FAST GREEN FLASH DWELL PHASES? .....N  
 PED CLEARANCE THROUGH YELLOW? .....N  
 INHIBIT OVERLAP GREEN EXTENSION? ....N  
 SERVICE DURING SOFTWARE FLASH? .....N  
 REST IN RED DURING DWELL INTERVAL? ..N  
 FLASH DWELL INTERVAL? .....N  
 ALLOW PEDS IN DWELL INTERVAL? .....N  
 RE-TIME DWELL INTERVAL? .....Y  
 OVERLAPS: ABCDEFGHIJKLMNQP  
 DWELL INT FLASH YELLOW  
 OMIT OVERLAPS:

\* Denotes timing to be determined in field.

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0946  
 DESIGNED: Nov 2021  
 SEALED: 11/08/2021  
 REVISED: N/A

Electrical Detail  
Sheet 2 of 2

ELECTRICAL AND PROGRAMMING DETAILS FOR:

US 17 (Military Cutoff Road)  
at  
Wilmington Fire Station #9

Division 3 New Hanover County Wilmington

PLAN DATE: November 2021 REVIEWED BY: WJ Hamilton  
 PREPARED BY: A. Andrews RKA PROJ. NO.: 19258 (040)

REVISIONS: \_\_\_\_\_ INIT: \_\_\_\_\_ DATE: \_\_\_\_\_

DocuSigned by:  
  
 11/08/2021  
 ADDRESS: \_\_\_\_\_ DATE: \_\_\_\_\_

750 N. Greenfield Pkwy, Garner, NC 27529

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SEAL  
 NORTH CAROLINA  
 PROFESSIONAL  
 ENGINEER  
 SEAL 32396  
 WILLIAM J. HAMILTON

DocuSigned by:  
  
 11/08/2021  
 ADDRESS: \_\_\_\_\_ DATE: \_\_\_\_\_

SIG. INVENTORY NO. 03-0946