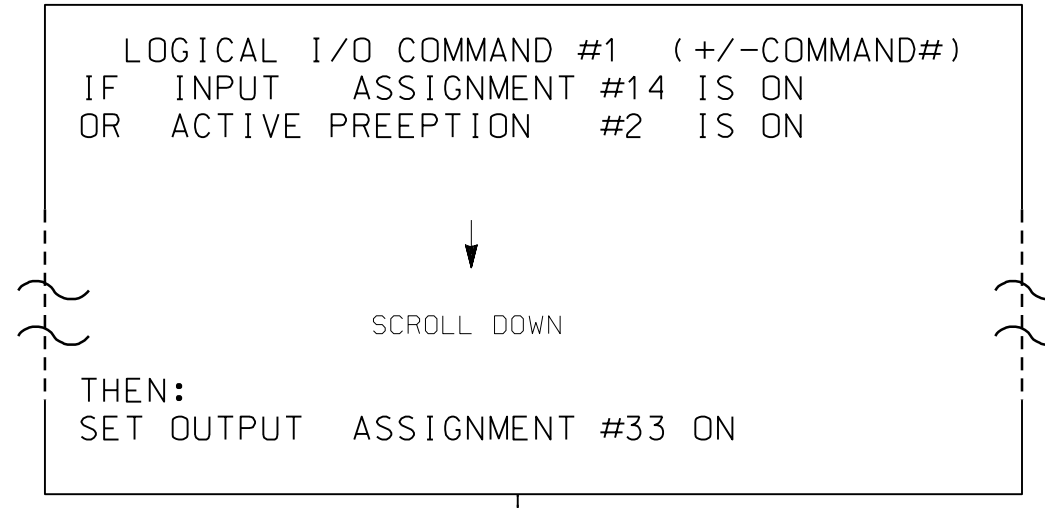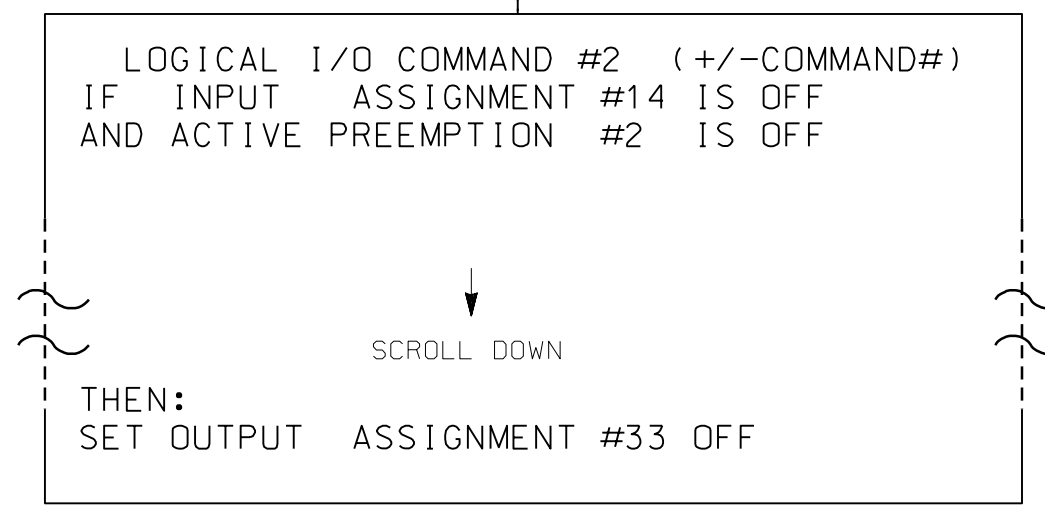| PROJECT REFERENCE NO.	SHEET NO.
U-5935	SIG-3.2

LOGICAL I/O PROCESSOR PROGRAMMING DETAIL FOR INDICATOR LAMP CONTROL

(program controller as shown below)

1. FROM MAIN MENU PRESS '2' (PHASE CONTROL), THEN '1' (PHASE CONTROL FUNCTIONS). SCROLL TO THE BOTTOM OF THE MENU AND ENABLE ACT LOGIC COMMANDS 1 AND 2.

2. FROM MAIN MENU PRESS '6' (OUTPUTS), THEN '3' (LOGICAL I/O PROCESSOR).

```
LOGICAL I/O COMMAND #1  (+/-COMMAND#)       NOTE: FIRE HOUSE
IF  INPUT    ASSIGNMENT #14 IS ON                 PILOT LAMP
OR  ACTIVE PREEPTION  #2  IS ON                   LOGIC.
```

SCROLL DOWN

```
THEN:
SET OUTPUT  ASSIGNMENT #33 ON
```

PRESS '+'

```
LOGICAL I/O COMMAND #2  (+/-COMMAND#)       NOTE: FIRE HOUSE
IF  INPUT    ASSIGNMENT #14 IS OFF                PILOT LAMP
AND ACTIVE PREEPTION  #2  IS OFF                  LOGIC.
```

SCROLL DOWN

```
THEN:
SET OUTPUT  ASSIGNMENT #33 OFF
```
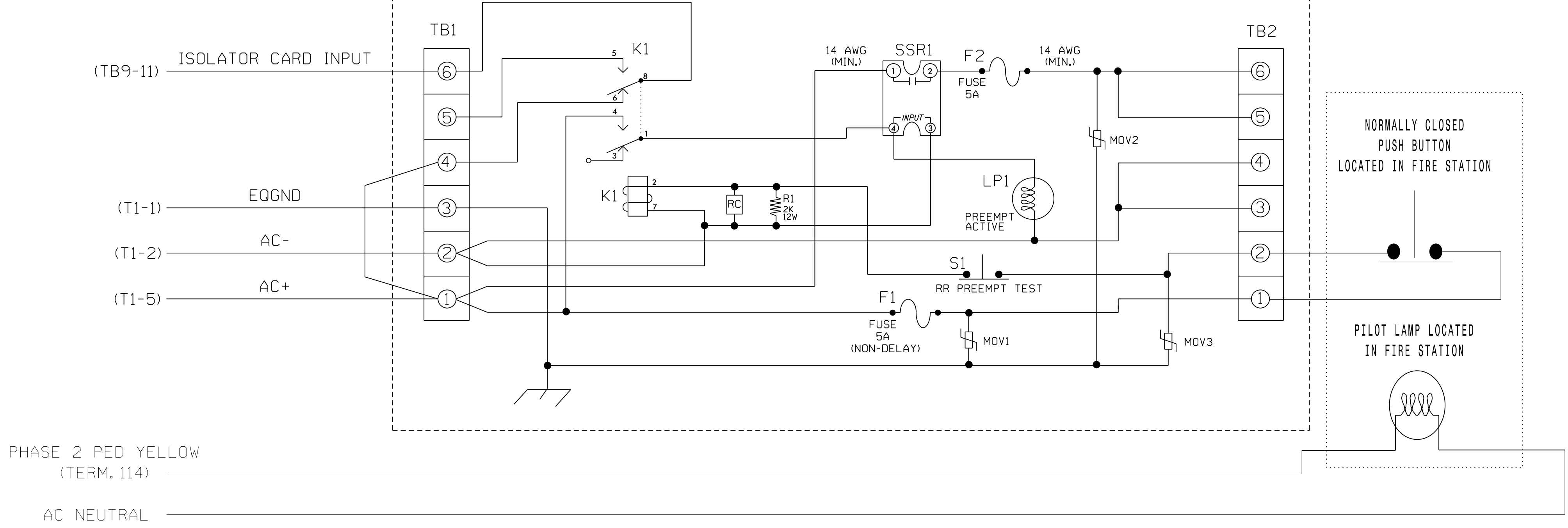
END OF PROGRAMMING

OUTPUT REFERENCE SCHEDULE
USE TO INTERPRET LOGIC PROCESSOR

INPUT 14 = Preempt 2
OUTPUT 33 = Phase 2 PED Yellow

EV Preemption Control Box Wiring Detail

(wire as shown below)

PREEMPTION AND BLANKOUT SIGN CONTROL BOX

CABINET WIRING

PHASE 2 PED YELLOW (TERM.114)

AC NEUTRAL

THIS ELECTRICAL DETAIL IS FOR
THE SIGNAL DESIGN: 04-0282
DESIGNED: June 2017
SEALED: 08/04/2017
REVISED: N/A

LAMP NOTES

1. If field terminal 114 has a conflict monitor wire attached, remove, tape, and label wire.

2. Make sure load resistors are in place as shown in the Load Resistor Installation Detail.

3. Install a loadswitch in Output File Slot S3.

PREEMPT 2 AC ISOLATOR (MODEL 252) OUTPUT PROGRAMMING DETAIL

(set DIP switches as shown below)

```
PDC MODEL 252 AC ISOLATOR CARD
(COMPONENT SIDE)

                          ON →
                    1 NORM      1
                    1 INV       2
                    2 NORM      3
                    2 INV       4
```

■ DENOTES POSITION OF SWITCH

SETTING = INVERTED OUTPUT ON CHANNEL 2.

252 AC ISOLATOR TO BE INSTALLED IN SLOT J-14 OF INPUT FILE.

NOTE: IF ANOTHER MANUFACTURER TYPE OF AC ISOLATOR IS USED, OUTPUT PROGRAMMING IS LIKELY NOT TO EQUATE TO THAT SHOWN ABOVE.

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  SETTINGS (NEXT:1-10)
    INTERVAL/TIMING │  CLEAR/DWELL PHASES
      GRN YEL  RED  │12345678910111213141516
    1 255  0.0  0.0 │ X
    2  0   0.0  0.0 │
    3  0   0.0  0.0 │
    4  0   0.0  0.0 │
    5  1.0 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? .............N
    OVERLAPS:               ABCDEFGHIJKLMNOP
    DWELL INT FLASH YELLOW
    OMIT OVERLAPS
```
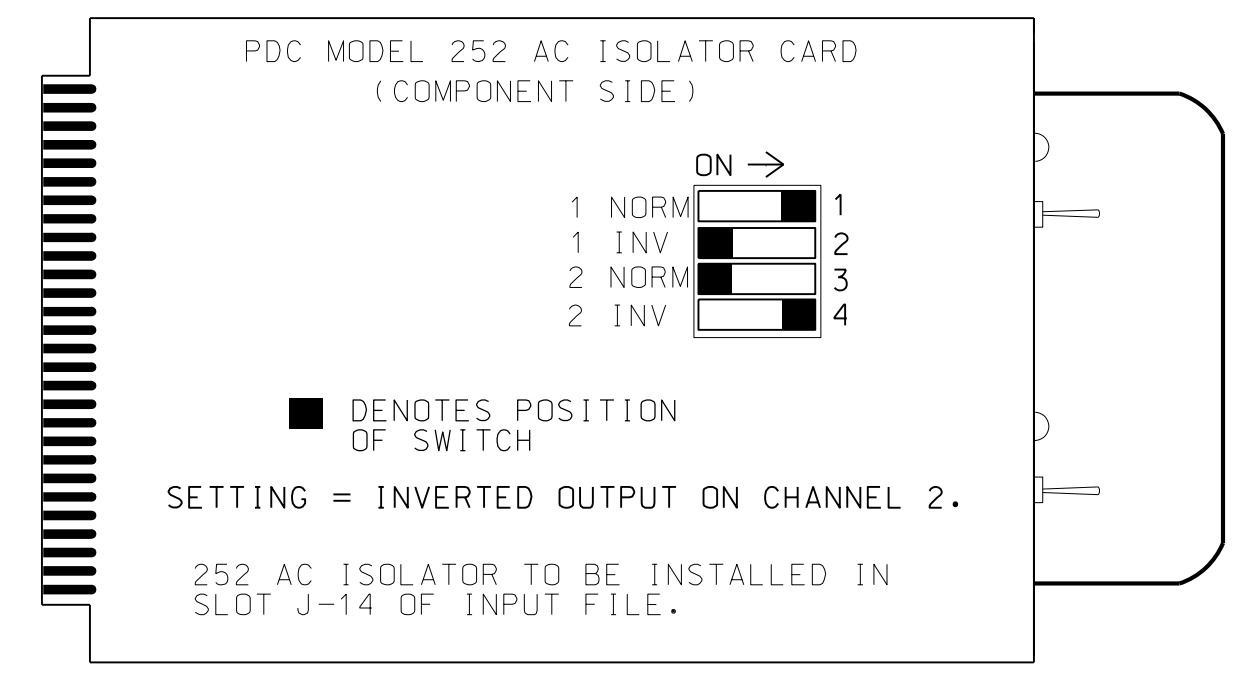
* Denotes timing to be determined in field.

NOTES

1. Relay K1 is shown in the energized (Preempt not active) normal operation state.

2. Relay 'K1' is an enclosed DPDT general purpose relay with a 120VAC coil, 10A contacts, and octal-style plug.

3. Relay SSR1 is a SPST (normally open) Solid State Relay with AC input and AC (25 amp) output.

4. AC Isolator Card shall activate preemption upon removal of AC+ from the input (as shown above). To accomplish this, set invert dip switch on AC Isolator Card.

5. IMPORTANT!! Terminal TB9-12 (on input panel) shall be connected to AC neutral (jumper may have to be added).
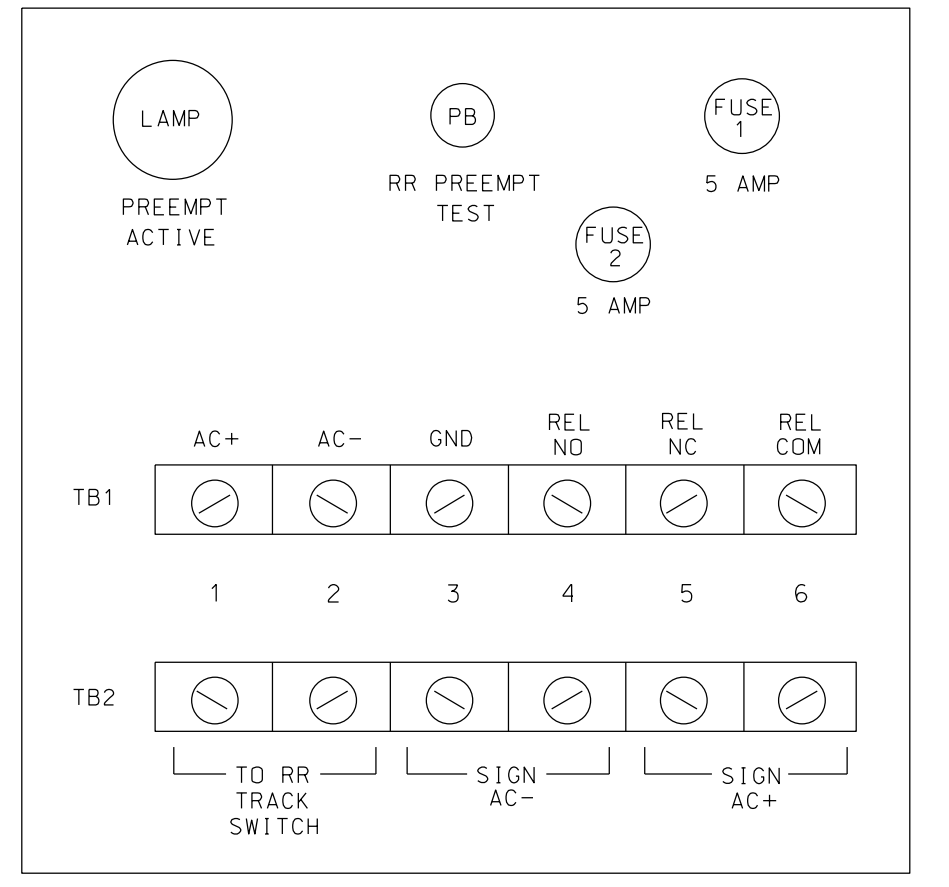
FRONT VIEW

	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

Electrical Detail - Sheet 2 of 3 - Signal Modification

ELECTRICAL AND PROGRAMMING DETAILS FOR:

Michael Baker
INTERNATIONAL

8000 Regency Parkway, Suite 600
Cary, North Carolina 27518
Phone: 919-463-5488
NC License No.: F-1084
MBAKERINTL.COM

Prepared in the Offices of:

US 301 (Ward Boulevard) at New Bern Street

Division 4	Wilson County	Wilson
PLAN DATE: June 2017	REVIEWED BY: W M Ruhsam	
PREPARED BY: K M Cory	REVIEWED BY:	

REVISIONS		INIT.	DATE

SEAL

NORTH CAROLINA
PROFESSIONAL
SEAL
038970
ENGINEER
KELLY M CORY

8/4/2017

SIG. INVENTORY NO. 04-0282