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.
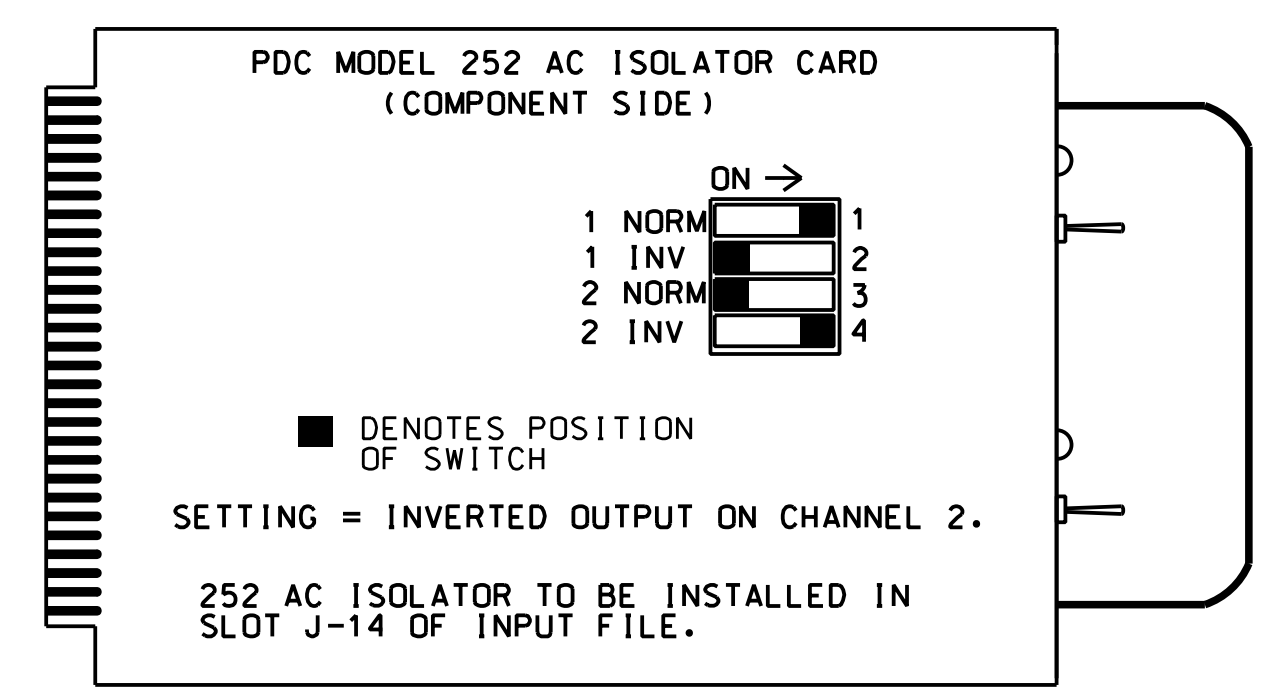
```
          PREEMPTION #2  SETTINGS (NEXT:1-10)
          INTERVAL/TIMING | CLEAR/DWELL PHASES
          GRN  YEL  RED   |12345678910111213141516
        1 255  3.8  2.6   | X
        2   0  0.0  0.0   |
        3   0  0.0  0.0   |
        4   0  0.0  0.0   |
        5   1  0.0  0.0   | X  X
        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? .......Y
        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:           |ABCDEFGHIJKLMNOP
        DWELL INT FLASH YELLOW|
        OMIT OVERLAPS:      |
```

* Denotes timing to be determined in field.

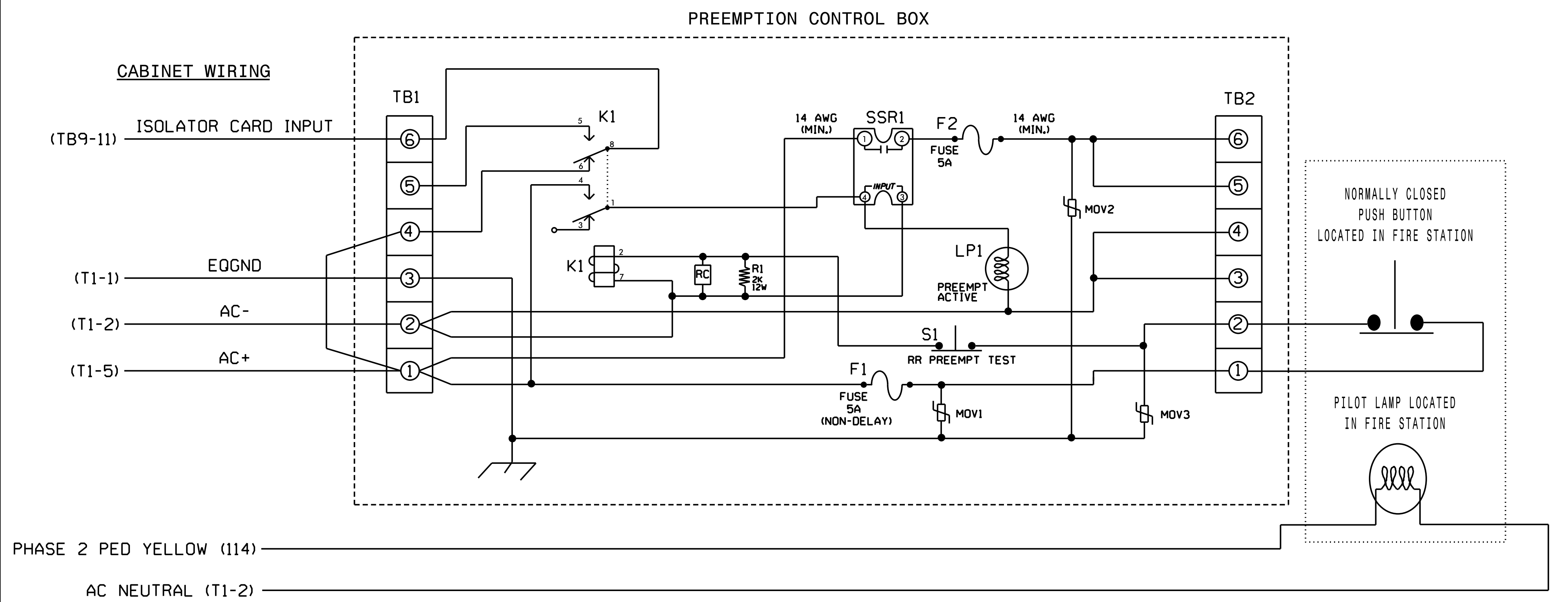## PREEMPT 2 AC ISOLATOR (MODEL 252) OUTPUT PROGRAMMING DETAIL

(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.

EV Preemption Control Box Wiring Detail

(wire as shown below)

PREEMPTION CONTROL BOX

CABINET WIRING

(TB9-11) ISOLATOR CARD INPUT

(T1-1) EQGND
(T1-2) AC-
(T1-5) AC+

PHASE 2 PED YELLOW (114)
AC NEUTRAL (T1-2)

NORMALLY CLOSED PUSH BUTTON LOCATED IN FIRE STATION

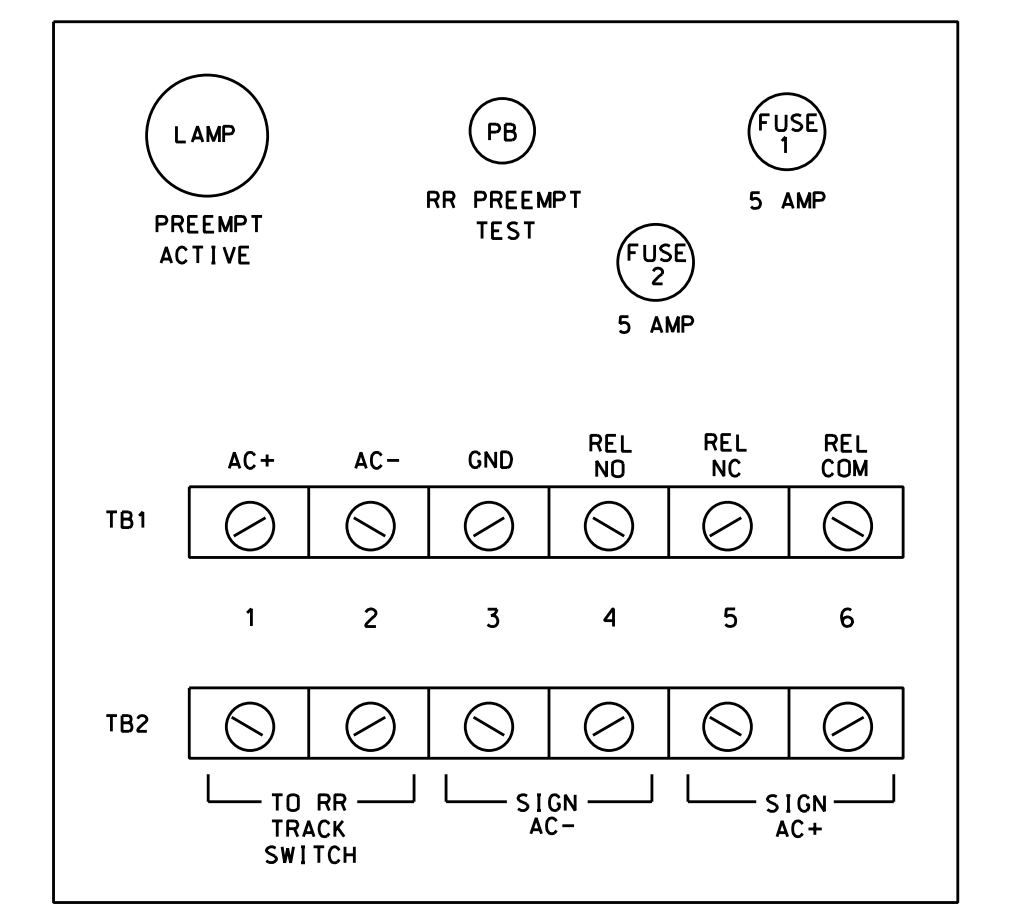PILOT LAMP LOCATED IN FIRE STATION

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).

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 on Sheet 1.

3. Install a loadswitch in Output File Slot S3.

FRONT VIEW

LAMP — PREEMPT ACTIVE
PB — RR PREEMPT TEST
FUSE 1 — 5 AMP
FUSE 2 — 5 AMP

	AC+	AC-	GND	REL NO	REL NC	REL COM
TB1	1	2	3	4	5	6

TB2 — TO RR TRACK SWITCH / SIGN AC- / SIGN AC+

THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 02-0190
DESIGNED: March 2018
SEALED: 12-7-18
REVISED: N/A

Electrical Detail - Sheet 3 of 3
Signal Upgrade

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

ELECTRICAL AND PROGRAMMING DETAILS FOR:

US 70 Business (E Main St) at SR 1735 (Cunningham Boulevard)/ Annunciation Catholic School

Division 02   Craven Co.   Havelock

PLAN DATE:	March 2018	REVIEWED BY: A.D. Klinksiek
PREPARED BY:	A.H. Thornburg	REVIEWED BY: N.R. Simmons

REVISIONS | INIT. | DATE

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SEAL
031464
ENGINEER
NATASHA R. SIMMONS

Natasha R. Simmons   12/7/2018
SIGNATURE   DATE

SIG. INVENTORY NO.   02-0190

Prepared for:
NC Department of Transportation
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