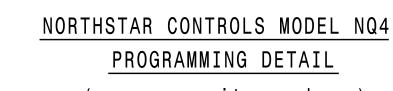
2016CPT.03.09.10101, Etc.

## NOTES

- 1. All loop lead-ins shall be twisted. 2. Loop spacing is critical to the proper operation of this Overspeed Detection System. Make sure
- 3. Insure that connectors on rear of NQ4 are seated securely.
- 4. NQ4 Unit shall be located in an auxiliary cabinet adjacent to Speed Warning System loops.
- 5. Unit power is connected by standard electrical plug.

loop spacing is correctly programmed in NQ4 Unit.

- 6. Terminal strips TB1, TB2, TB3, & TBA to be added by installer.
- 7. Relay 'K1' is a SPDT with an 120VAC coil. Potter & Brumfield no. KRP5AGAG, Dot Material no. 625028600.
- 8. The RC Network across the coil of 'K1' is a .1 micro farad, 100 ohm. Dot Material no. 106018075. P&B no. 104M06QC100
- 9. EDCO SPA-60BS is a surge protector for 120VAC interconnect circuits. Dot Material no. 625022076.
- 10. EDCO SHP300-10 is an AC service surge protector. Dot Material no. 625022075.
- 11. Do not install ground rods at auxiliary cabinet.
- 12. Install equipment ground from controller cabinet to auxiliary cabinet if not already present.
- 13. Install disconnect if there is no disconnect present at auxiliary cabinet.
- 14. IMPORTANT! A jumper must be installed between input file terminals J14-E and J14-K if not already present.
- 15. IMPORTANT! For proper operation of the Long Vehicle Detection Unit, tie TB9-12 to AC neutral.
- 16. IMPORTANT! Make sure both channels of AC Isolator card inserted at input file position J14 are set for inverted operation.



(program unit as shown)

NOTE: UNIT MUST BE PROGRAMMED USING PC AND HYPERTERMINAL PROGRAM. FOR CONNECTION TO HYPERTERMINAL REFER TO NO4 OPERATION MANUAL.

PROGRAM NQ4 BY TYPING THE FOLLOWING COMMANDS

- 1. SET SPEED=55
- 2. SET LENGTH=22'
- 3. SET ALARMTIME=12
- 4. SET SEPARATION=16' (LEADING EDGE TO LEADING EDGE) (THIS VALUE MAY VARY, PROGRAM ACTUAL MEASURED SEPARATION)
- 5. SET LOOP LENGTH=6'
- (THIS VALUE MAY VARY, PROGRAM ACTUAL MEASURED LOOP LENGTH)

6. SAVE

PROGRAMMING APPLIES TO BOTH LANE 1 AND LANE 2

SHEET 4 OF 7

REVISION VI SEAL

ELECTRICAL DETAIL DETAILS FOR Prepared in the Offices of:

SR 1304 (Pea Landing Road) SR 1165 (Thomasboro Road

US 17 (Ocean Highway)

08-04-10 REVIEWED BY:

PLAN DATE: PREPARED BY: D.H. Spaulding Reviewed BY:

JTR.

This document is only certified as to the revisions.

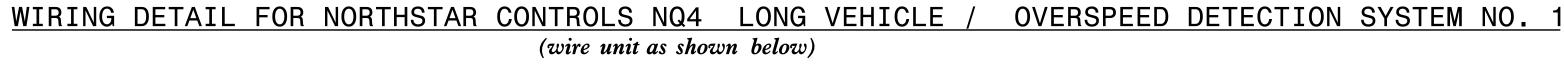
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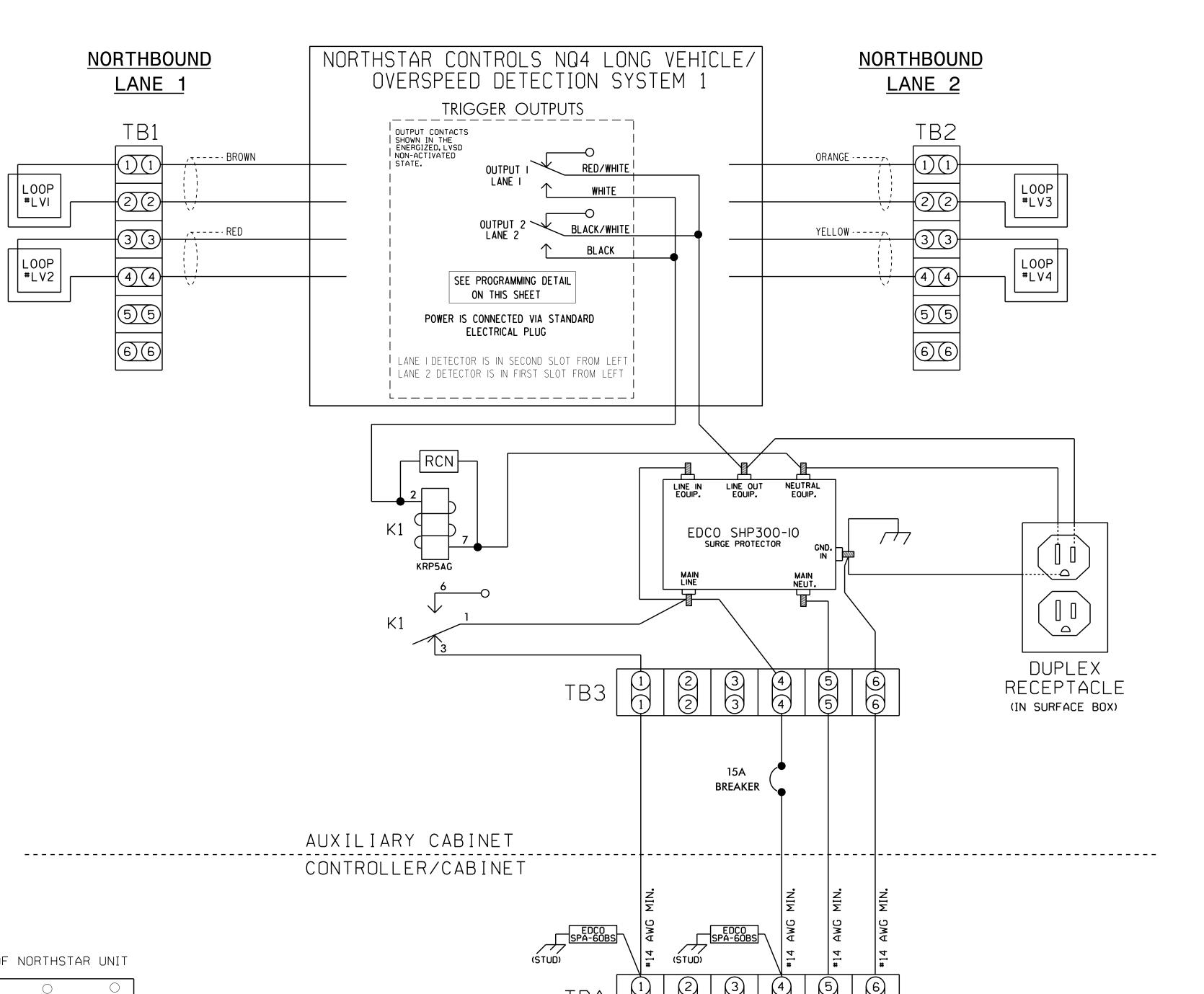
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the Revisions - This document

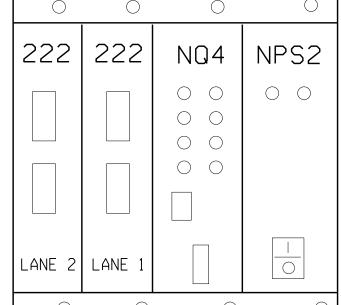
originally issued and sealed by George C. Brown, #022013.

SIG. INVENTORY NO. 03-0416





## FRONT VIEW OF NORTHSTAR UNIT



THIS ELECTRICAL DETAIL IS FOR THE SIGNAL DESIGN: 03-0416 DESIGNED: December 2009 SEALED: 12-18-09

REVISED: 7/17/2015

— AC- (T1-2)

- 120VAC+ (T1-5)

F1

FUSE 5 AMP NON-DELAY

AC ISOLATOR INPUT (TB9-10)

EQUIPMENT GROUND BUS (See note 12 this sheet)

John T. Rowe, Jr. 7/21/2015

f V No changes to this electrical plan. (WSA)