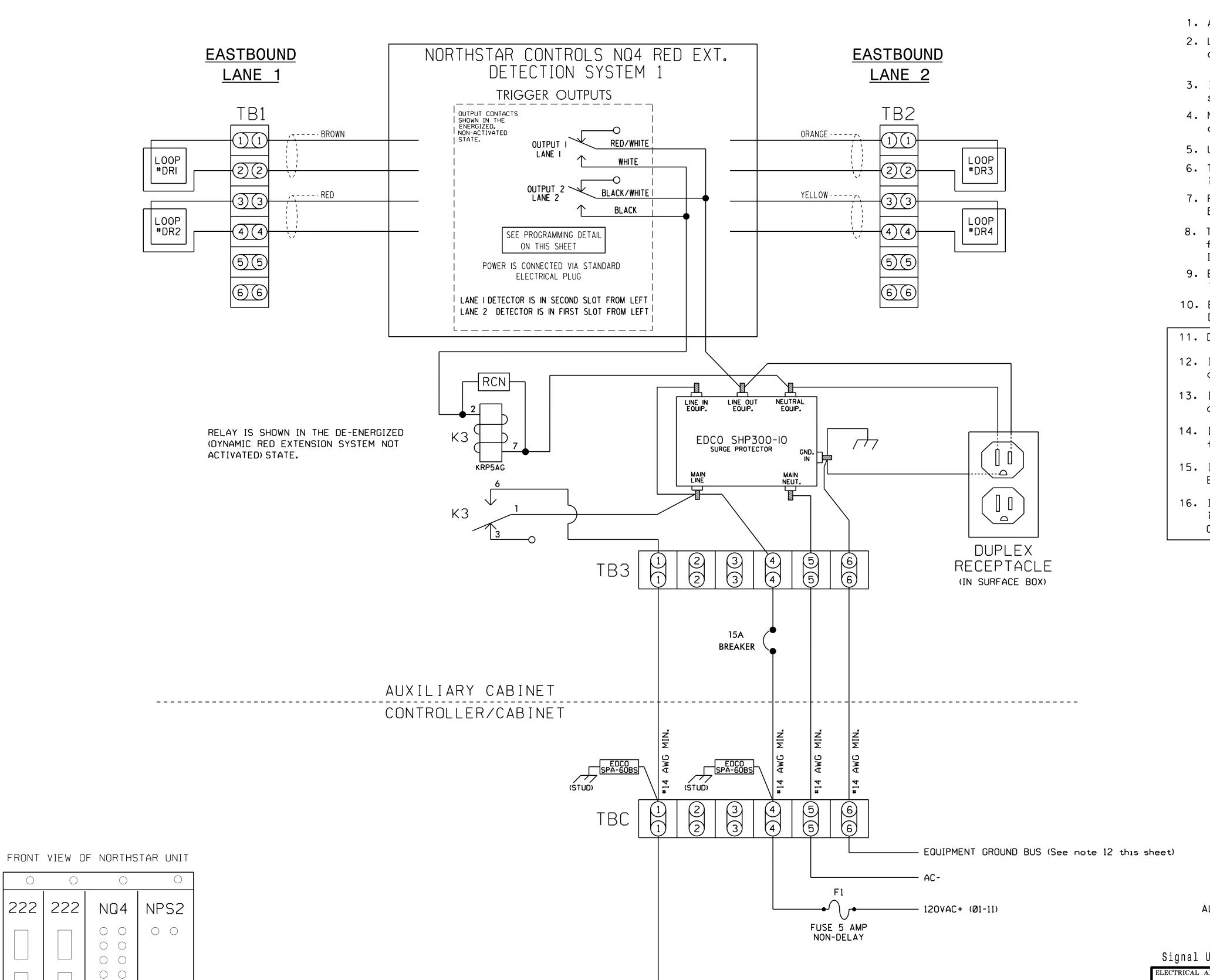
2016CPT.03.09.10101, Etc

(wire unit as shown below)



WIRING DETAIL FOR NORTHSTAR CONTROLS NQ4 USED FOR DYNAMIC RED EXTENSION - SYSTEM NO. 1

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 loop spacing is correctly programmed in NQ4 Unit.
- 3. Insure that connectors on rear of NQ4 are seated securely.
- 4. NQ4 Unit shall be located in an auxiliary cabinet adjacent to Dynamic Red Extension System loops.
- 5. Unit power is connected by standard electrical plug.
- 6. Terminal strips TB1, TB2, TB3, & TBC to be added by installer.
- 7. Relay 'K3' is a SPDT with an 120VAC coil. Potter & Brumfield no. KRP5AGAG. Dot Material no. 625028600.
- 8. The RC Network across the coil of 'K3' is a .1 micro farad, 100 ohm. Dot Material no. 106018075. ITW 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 J9-E and J9-K.
- 15. IMPORTANT! For proper operation of the Dynamic Red Extension System, tie TB7-12 to AC neutral.
- 16. IMPORTANT! Make sure both channels of AC Isolator card inserted at input file position J9 are set for NORMAL OUTPUT operation. See sheet 1 of this Electrical Detail.

NORTHSTAR CONTROLS MODEL NQ4 PROGRAMMING DETAIL

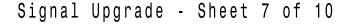
(program unit as shown)

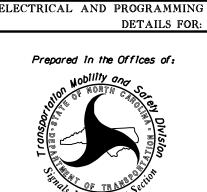
NOTE: UNIT MUST BE PROGRAMMED USING PC AND HYPERTERMINAL PROGRAM. FOR CONNECTION TO HYPERTERMINAL REFER TO NO4 OPERATION MANUAL.

PROGRAM NQ4 BY TYPING THE FOLLOWING COMMANDS

- 1. SET SPEED=50
- 2. SET LENGTH=1
- 3. SET ALARMTIME=5
- 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

WHEN DYNAMIC RED EXTENSION SYSTEM 1
DETECTS A VIOLATION. A SPECIAL
FUNCTION 1 ALARM IS RECORDED WITHIN THE
OASIS ALARM LOG (WITH TIME AND DATE STAMP). ALARM LOG NOTE:





AC ISOLATOR INPUT (TB7-9)

CARD INSERTED AT SLOT J9-UPPER

(STOP TIME)

US 17 NC 904 (Longwood Road/ Seaside Road)

Brunswick County ivision 3 Grissettown JTR

PLAN DATE: December 2012 REVIEWED BY: PREPARED BY: S. Armstrong | REVIEWED BY: REVISIONS — PRIT. DATE Revised from stretch to Volume Density. (WSA)

008453

SEAL

John T. Rowe, Jr. 12/10/2012 SIG. INVENTORY NO. 03-0342

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LANE 2 LANE

NQ4

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THIS ELECTRICAL DETAIL IS FOR

THE SIGNAL DESIGN: 03-0342

DESIGNED: December 2012

SEALED: 12/6/12

REVISED: 7/16/2015