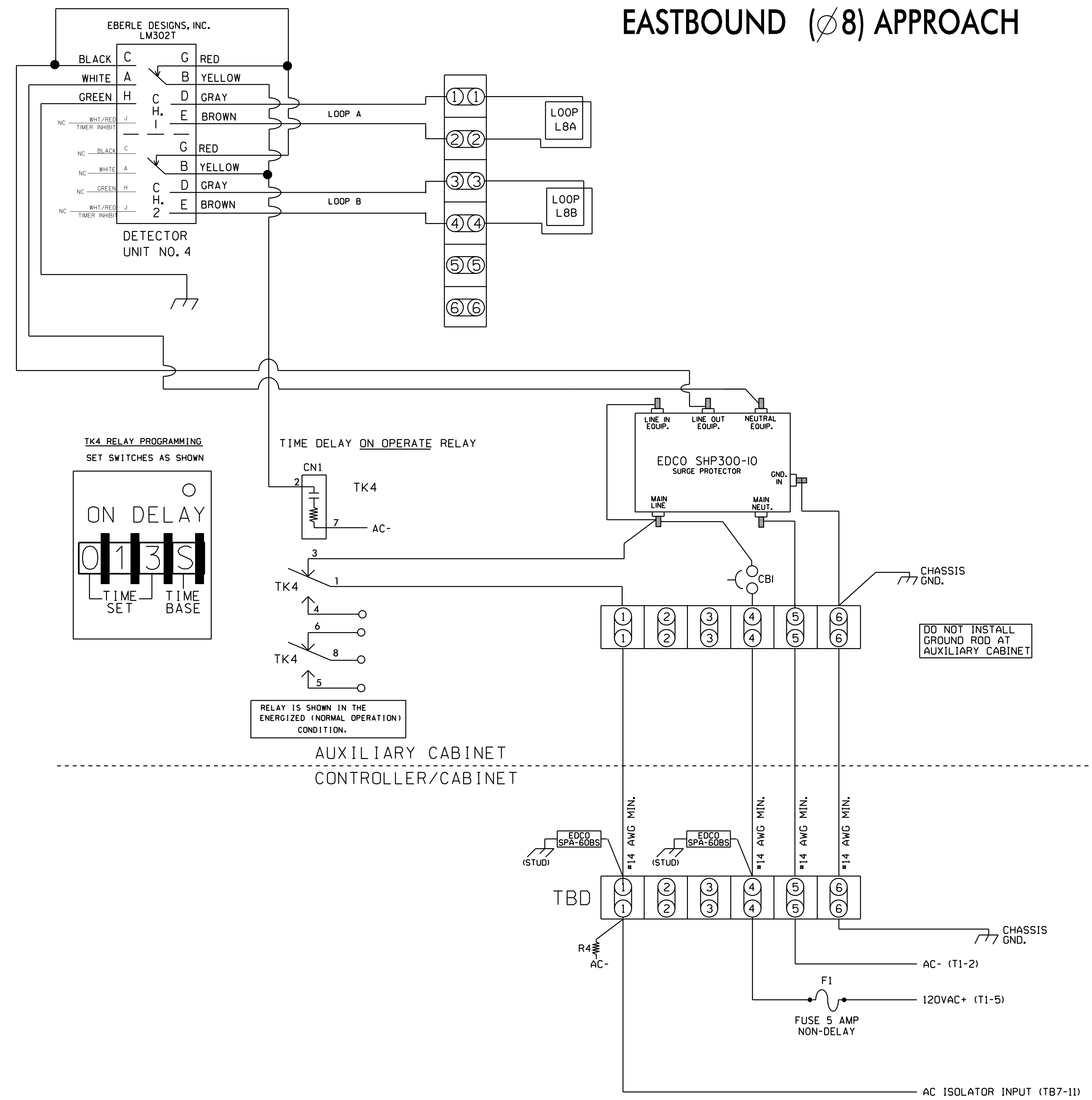


# LONG VEHICLE DETECTION SYSTEM (wire as shown)

## SYSTEM 4

### EASTBOUND (Ø8) APPROACH



- NOTES**
- ALL LOOP LEAD-INS SHALL BE TWISTED.
  - LOOP SPACING IS CRITICAL TO THE PROPER OPERATION OF THIS LONG VEHICLE DETECTION SYSTEM. CONSULT SIGNAL DESIGN PLANS FOR LOOP SPACING.
  - LONG VEHICLE SYSTEM SHALL BE HOUSED IN AN AUXILIARY CABINET ADJACENT TO LONG VEHICLE DETECTION LOOPS.
  - DETECTOR UNIT IS A NEMA TS1 STANDARD 2 CHANNEL INDUCTIVE LOOP DETECTOR UNIT. DOT MATERIAL NO. 617031530.
  - TERMINAL STRIPS TO BE ADDED BY INSTALLER.
  - RESISTOR IS A 2K OHM, 12 WATT. DOT MATERIAL NO. 625011550.
  - EDCO SPA-60BS IS A SURGE PROTECTOR FOR 120VAC INTERCONNECT CIRCUITS. DOT MATERIAL NO. 625022076.
  - RELAY TK4 IS AN ON DELAY, TIME DELAY RELAY WITH DIGITAL TIMING ADJUSTMENT, 120VAC COIL, 10 AMP CONTACTS. POTTER AND BRUMFIELD PART NO. CN1.
  - EDCO SHP300-10 IS AN AC SERVICE SURGE PROTECTOR. DOT MATERIAL NO. 625022075.
  - CB1 IS A 15 AMP CIRCUIT BREAKER.
- IMPORTANT! A JUMPER MUST BE INSTALLED BETWEEN INPUT FILE TERMINALS J9-E AND J9-K IF NOT ALREADY PRESENT.
  - IMPORTANT! FOR PROPER OPERATION OF THE LONG VEHICLE DETECTION UNIT, REMOVE SURGE PROTECTION FROM TERMINALS TB7-9, TB7-10, TB7-11 AND TB7-12. TIE TB7-12 TO AC NEUTRAL.
  - IMPORTANT! MAKE SURE AC ISOLATOR CARD INSERTED AT INPUT FILE POSITION J9 IS SET FOR INVERTED OPERATION.
- SET DETECTORS TO "LONG PRESENCE" MODE.

Electrical Detail Sheet 7 of 8

ELECTRICAL AND PROGRAMMING DETAILS FOR: Prepared in the Offices of:  750 N. Greenfield Pkwy, Garner, NC 27529	<b>US 421/NC 242</b> at <b>US 13</b> Division 3 Sampson County Spivey's Corner PLAN DATE: January 2017 REVIEWED BY: PREPARED BY: B. SIMMONS REVIEWED BY: REVISIONS: No change to electrical detail. (JJP) DATE: 5/12/2017 DocuSigned by: Cary M. Little 1-31-17 DATE: 05/12/2017	DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED SEAL  SEAL 030530 ENGINEER CARY M. LITTLE
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