

## QUALITY ASSURANCE AUDIT REPORT

Job #2025-0614 - Distribution Line Extension

Date: October 6, 2025

Inspector: J. Martinez, QA Lead

### INFRACTIONS IDENTIFIED

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#### INFRACTION #1: NON-COMPLIANT POLE EMBEDMENT

Location: Pole #47, Station 12+50

Issue: Pole embedment measured at 5 feet 8 inches. For a 40-foot pole, required depth is 6 feet per specification.

Status: GO-BACK REQUIRED

Crew must re-excavate and set pole to proper depth.

#### INFRACTION #2: INADEQUATE CONDUCTOR CLEARANCE

Location: Span between Poles #52-53, over Elm Street

Issue: Conductor height measured at 17 feet 4 inches above road surface. Minimum clearance is 18 feet per spec book Section 4.2.2.

Status: GO-BACK REQUIRED

Conductors must be re-tensioned to achieve proper clearance.

#### INFRACTION #3: GROUND ROD NOT FULLY DRIVEN

Location: Pole #49

Issue: Ground rod protruding 6 inches above grade. Specification requires rod to be driven within 2 inches of surface.

Status: GO-BACK REQUIRED

Drive ground rod to proper depth.

#### INFRACTION #4: MISSING LIGHTNING ARRESTER GROUND CONNECTION

Location: Transformer at Pole #51

Issue: Lightning arrester ground lead has splice connection instead of direct connection to ground rod.

Status: GO-BACK REQUIRED

Section 4.4.3 requires direct connection with no splices. Reconnect properly.

**INFRACTION #5: IMPROPER GUY WIRE MATERIAL**

Location: Pole #48

Issue: Crew used non-galvanized steel cable for guy wire installation.

Status: GO-BACK REQUIRED

Replace with high-strength galvanized steel per Section 4.1.3.

**INFRACTION #6: CUTOUT MOUNTED WITH 2 BOLTS**

Location: Pole #50 cutout bracket

Issue: Cutout mounted using only 2 bolts. Section 4.4.2 requires 3-bolt mounting.

Status: GO-BACK REQUIRED

Install third bolt to meet specification.

**INFRACTION #7: TRANSFORMER MOUNTING HARDWARE**

Location: Pole #52 transformer

Issue: Mounting bolts are zinc-plated instead of hot-dip galvanized as required by Section 4.4.1.

Status: GO-BACK REQUIRED

Replace with properly galvanized hardware.

**INFRACTION #8: EXCESSIVE GROUND RESISTANCE**

Location: Pole #53

Issue: Ground resistance tested at 32 ohms. Maximum allowed is 25 ohms per Section 4.3.1.

Status: GO-BACK REQUIRED

Install additional ground rod or enhanced grounding to achieve compliance.

**INFRACTION #9: CONDUCTOR TYPE NON-COMPLIANT**

Location: Span #54-55

Issue: All-aluminum conductor (AAC) used instead of required ACSR per Section 4.2.1.

Status: GO-BACK REQUIRED - CRITICAL

This is a major violation. Conductor must be replaced with proper ACSR.

INFRACTION #10: INCOMPLETE INSTALLATION CARD

Location: Pole #47

Issue: Installation card not signed by inspector as required by Section 4.5.3.

Status: VIOLATION - CORRECT

Complete and sign installation card before energization.

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SUMMARY: 10 infractions identified

Critical: 1

Go-backs required: 9

Estimated correction time: 16-20 work hours

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