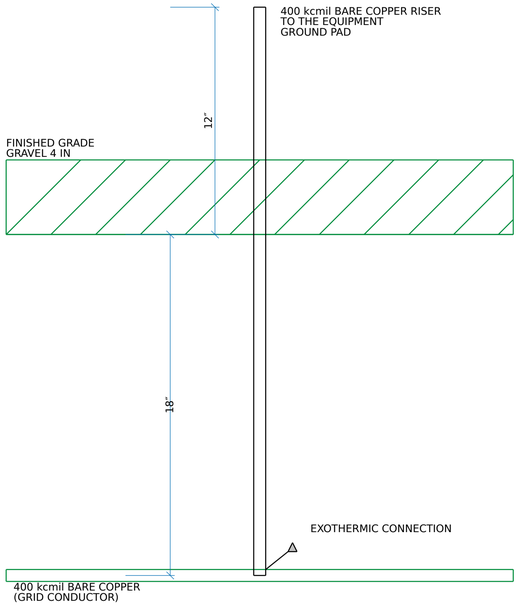
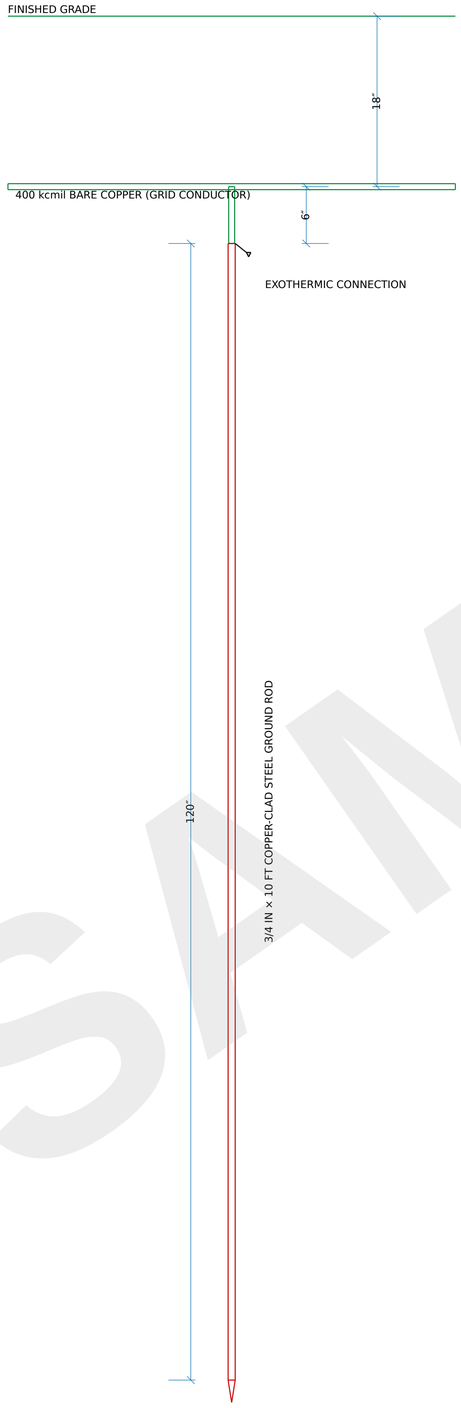
DETAIL A: RISER (SCALE 3″ = 1′-0″)

0 2.5 5 in



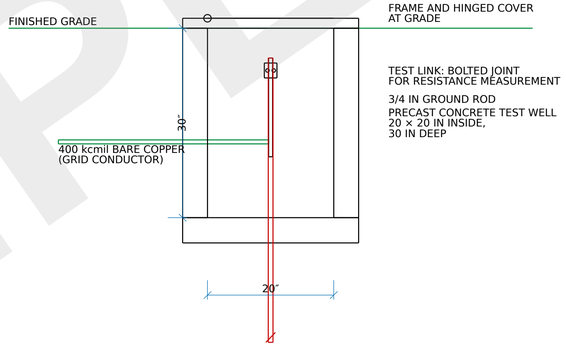
DETAIL B: GROUND ROD (SCALE 1-1/2″ = 1′-0″)

0 5 10 in



DETAIL C: TEST WELL (SCALE 1″ = 1′-0″)

0 10 20 in



NOTES

1. Ground grid: 400 kcmil bare copper, soft-drawn, buried 18 in below finished grade, as on the ground grid layout.
2. Ground rods: 154 rods, 3/4 in × 10 ft copper-clad steel, driven vertically, their tops 6 in below the grid conductor.
3. Risers: 400 kcmil bare copper to the equipment ground pad, 12 in above finished grade.
4. Buried connections exothermic, qualified to IEEE 837 (RUS 1724E-300 §9.6.6). Above-grade connections bolted to the ground pad.
5. One test well per test point at grade, with a bolted test link for the resistance test.
6. Dimensions in inches. Scales as shown under each detail.

SAMPLE

SubstationLayout

REV	DATE	DESCRIPTION	BY
0	4 Nov 2026	Issued	Sample engineer

PROJECT	Sample 230/34.5 kV pooling substation
CLIENT	Sample client
LOCATION	Sample site
TITLE	GROUND GRID TYPICAL DETAILS 230/34.5 kV POOLING SUBSTATION, 250 MW

	NAME	DATE
DRAWN	Sample engineer	4 Nov 2026
CHECKED	Sample engineer	4 Nov 2026
APPROVED	Sample engineer	4 Nov 2026

DRG. NO.	SSL-E-EAR-002	REV.	0
SCALE	AS SHOWN	SIZE ANSI D	Sheet 1 of 1

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