



ADDENDUM NO 2

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FLORIDA MUNICIPAL POWER AGENCY

Request for Proposals# 2024-207
September 23, 2024

FMPA Request for Proposals Number 2024-207, Substation Security Fencing, has changed to reflect the following additions, deletions, and/or modifications:

Item No. 1

Modification to the Technical Specification.

The scope and specification have been modified. The new specifications are attached.

All other aspects of the RFP document remain the same.

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**SECTION 33 79 23
GROUNDING**

PART 1 - GENERAL

1.01 SUMMARY

Section includes details on ground wire, ground rods, and connectors related to grounding the Havana Substation fencing

1.02 CONTRACT DRAWINGS ENCLOSED

- A. FLFMPHAV500.A - FENCE GROUNDING PLAN
- B. FLFMPHAV501.A - FENCE GROUNDING DETAILS

1.03 QUALITY ASSURANCE

Perform work in accordance with the requirements of the National Electrical Safety Code and National Electrical Code.

1.04 SUBMITTALS

Manufacturers' literature indicating materials to be used on the project

PART 2 - PRODUCTS

2.01 GROUND WIRE

- A. Furnish conductor sizes and below-grade connectors shown on the Contract Drawings.
- B. Use conductors of bare, soft-drawn or soft-annealed copper wire in accordance with ASTM B3, and tinned per ASTM B246.
- C. Class B stranding in accordance with ASTM B8 in sizes No. 1/0 AWG and larger

2.02 GROUND RODS

- A. Furnish copper-clad steel or copper alloy sectional rods.
- B. Size: 3/4-inches by 10-feet
- C. Provide rods as manufactured by Copperweld or ITT Blackburn.

2.03 CONNECTORS

- A. Below-grade connections shall be CADWELD
- B. Above-grade connections shall be bolted as indicated on the Contract Drawings

PART 3 - EXECUTION

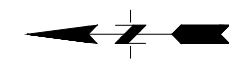
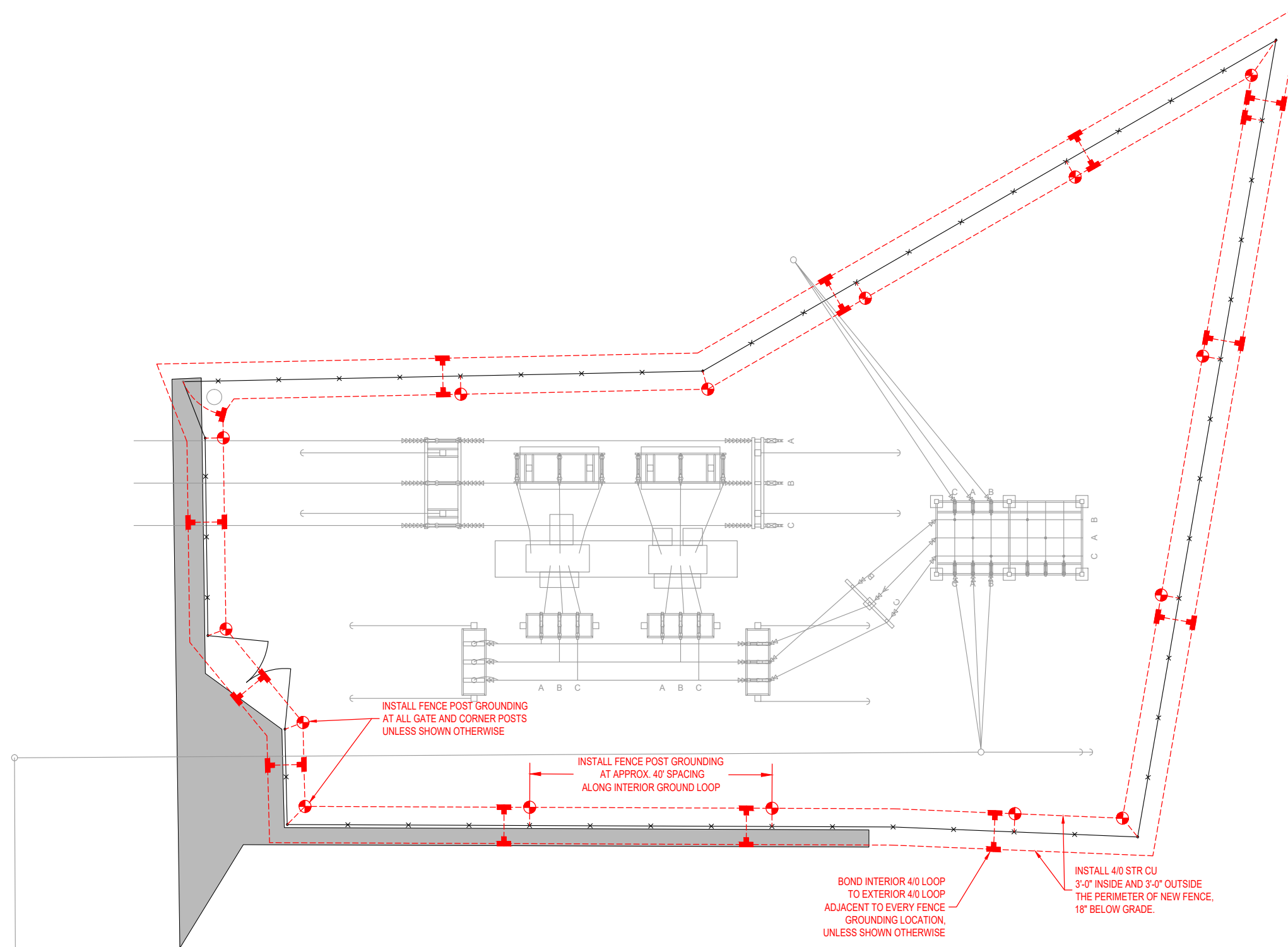
3.01 INSTALLATION REQUIREMENTS

- A. Owner will inspect below-grade connections prior to backfilling. Contractor will be required to uncover and reinstall below-grade grounding that is covered before inspection by Owner.
- B. Protect parts of grounding system against damage during construction. Observe provisions for temporary grounds as required by applicable safety codes.

- C. Thoroughly clean surfaces of wire to be part of an electrical connection with steel wool, wire brush or emery cloth, if necessary.
- D. Thoroughly dry surfaces before applying grounding electrodes or connectors.
- E. Route ground wire along the webs of columns and beams where possible for maximum physical protection.
- F. Do not use hold-down or foundation bolts for ground connections.
- G. Remove non-conductive protective coating and paint from the threads and contact surfaces of equipment ground pads, conduits and fittings before attaching grounding connection.
- H. Connect ground wire to conduit with clamps, straps or grounding bushings manufactured for this purpose.
- I. Make connections to ground grid as shown on the Contract Drawings.
- J. Ground metallic conduits entering cable trenches.
- K. Do not run a ground cable through a metallic conduit.
- L. Do not run a ground cable through a hole or other opening in magnetic material.
- M. Drive ground rods vertically into the ground. Drilling and jetting are not acceptable methods. Drive rods into unexcavated portion of the earth where possible; where rods must be installed in excavated areas, drive rods into earth after the compaction of the backfill is completed.
- N. Separately ground metal isolated from ground or not grounded through mechanical connection to other grounded equipment.
- O. Ground the substation fence as shown on the Contract Drawings.

END OF SECTION 33 79 23

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LEGEND

- - - - - NEW GROUNDING CONDUCTOR
4/0 SOFT DRAWN STRANDED CU
18" MIN BURIAL DEPTH BELOW
FINAL GRADE.
- ┼ GROUNDING TEE
4/0 STR CU. TO 4/0 STR CU.
CADWELD TAC2Q2Q
- ⊕ GROUND ROD
10'-0" x 5/8" DIA.
WITH CADWELD TEE CONNECTION TO
4/0 STR CU. AND 4/0 STR CU TAP
ERICO CADWELD NCR162Q

NOTES:

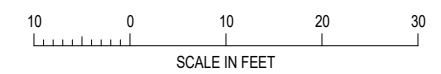
1. SEE DRAWING FLFMPHAV501 FOR FENCE GROUNDING DETAILS.
2. IF EXISTING BELOW GRADE GROUNDING CONDUCTOR IS ENCOUNTERED DURING EXCAVATION FOR NEW GROUNDING CONDUCTOR, BOND NEW GROUNDING CONDUCTOR TO EXISTING GROUNDING CONDUCTOR.
3. REPAIR OR REPLACE ANY EXISTING BELOW GRADE GROUNDING CONDUCTOR DAMAGED DURING CONSTRUCTION.

INSTALL FENCE POST GROUNDING
AT ALL GATE AND CORNER POSTS
UNLESS SHOWN OTHERWISE

INSTALL FENCE POST GROUNDING
AT APPROX. 40' SPACING
ALONG INTERIOR GROUND LOOP

BOND INTERIOR 4/0 LOOP
TO EXTERIOR 4/0 LOOP
ADJACENT TO EVERY FENCE
GROUNDING LOCATION,
UNLESS SHOWN OTHERWISE

INSTALL 4/0 STR CU
3'-0" INSIDE AND 3'-0" OUTSIDE
THE PERIMETER OF NEW FENCE,
18" BELOW GRADE.



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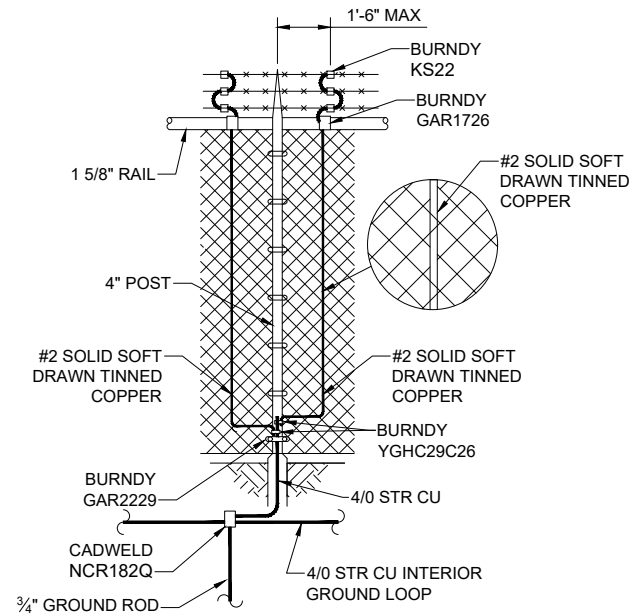
FLORIDA MUNICIPAL POWER AGENCY
 HAVANA SUBSTATION
 FENCE GROUNDING PLAN



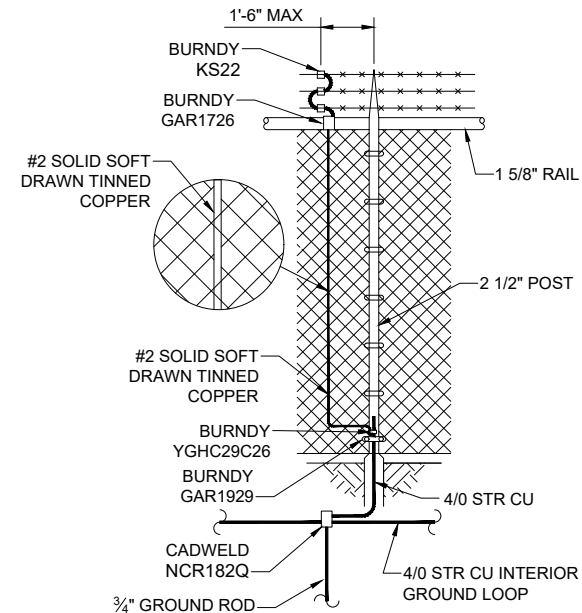
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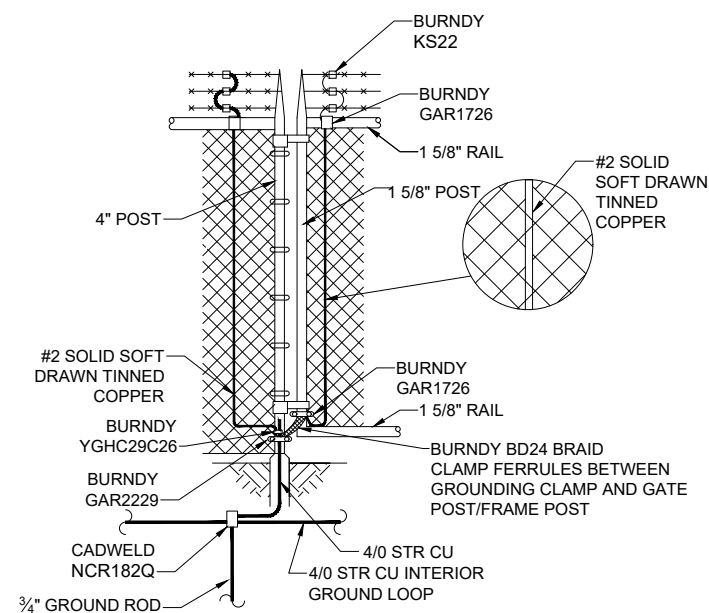
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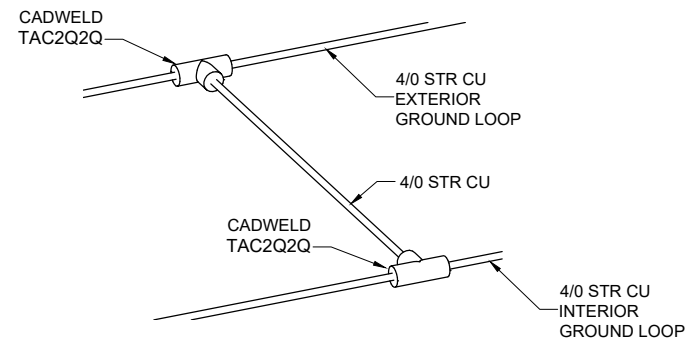
TYPICAL ON ALL FENCE CORNER POSTS



SPECIFIED FENCE LINE POSTS



TYPICAL ON ALL FENCE GATE POSTS



GROUNDLING LOOP TIE
 INSTALL ADJACENT TO
 SPECIFIED FENCE LINE POSTS

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FLORIDA MUNICIPAL POWER AGENCY
 HAVANA SUBSTATION
 FENCE GROUNDING DETAILS



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FOR REVIEW