Electrolytic Dissolver Transformer and Rectifier Electrical System

Minor
O&M Activity Plan

20-006

Prepared by: _____ 3/5/20
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H Area

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Deputy Operations Manager
H Area

Approved by: _____ 3/9/20
William E. Blackburn — Date
Generator Certification Official
H Area

1. INTRODUCTION

The Fast-Critical Assembly Project will remove and replace the Electrolytic Dissolver transformer and rectifier on the eastside of H Canyon. The pad supporting the transformer equipment will also be demolished and replaced with a diked concrete pad.

This activity is within Site Indexes (SI) 549 (General Separations Area Eastern Groundwater Operable Unit, No Building Number (NBN)) of the Federal Facility Agreement (FFA, Reference 1), 344 (Sand Blast Area CMH-001, NBN), and 591 (H Area Process Lines as Abandoned).

For the FCA project, based on the current conceptual design, the area of land disturbance is about 1000 square feet area and 80 cubic yards volume. This covers excavations for the foundation and the trench excavation for the new electrical conduit.

This plan is characterized as "minor intrusive activity" based on the soil excavation meeting the definition of both "minor" and "intrusive" as defined in Reference 2.

2. AREA DESCRIPTION AND CONDITIONS

The area in which this activity will be conducted is on the east side of H Canyon at Section 5. This area is west of the 211-H Cold Chemical Storage Area. Soil excavation will occur to a depth of approximately 2 feet.

3. O & M ACTIVITY

A. O&M Activity Description

The scope of the activity is to install a diked pad to electrical service and equipment

DISPOSAL OF ANY SOIL WILL BE PER THE GCO, ECA, AND RADIOLOGICAL PROTECTION (RP) DIRECTION.

B. O&M Activity Sampling and Monitoring for Health and Safety

The identified units are in the FFA because of possible radiological contamination from past releases from H-Area operations.

Radiological surveys will be required at the excavation site. If radiological contamination is encountered, RP will determine if protective equipment and personnel access restrictions are required.

Worker health and safety will be directed and controlled as required in the Assisted Hazard Analysis (AHA).

C. Health and Safety Plan

The health and safety concerns involve worker exposure to potential radiological contamination. RP shall provide for radiological monitoring during the excavation activities.

The work will be completed in accordance with the requirements stated in the AHA. The safety requirements and personal protective equipment described in the AHA are appropriate for the potential hazards related to the RCRA/CERCLA units.

D. Characterization and Sampling Plan for the Affected Area within the Unit

Radiological Protection (RP) will have to probe the soil during excavation activities. RP and/or Construction will have to prepare a sampling plan; and conduct sampling of the soil during this activity because the excavation will exceed 6 inches. If unexpected contamination is found, the SRNS On-Scene Coordinator (OSC) may request additional work scope and sampling from soil disturbed by the activity. Material removed as part of the excavation will managed per GCO, ECA, and RCO direction.

E. Contaminated Materials Management and/or Disposal

Based on previous excavations in the vicinity, radiological contamination is not expected in the excavated soil. All waste will be disposed in accordance with guidance from RP, the GCO, and the ECA.

F. Environmental Plans and Permit Modification Requests

This activity is not expected to involve other environmental plans, permits, required maintenance, inspections, or erosion control practices.

4. CONTINGENCY PLAN

During implementation of the activity, if the conditions change at any time such that the activity is no longer considered "minor" (as defined in Reference 2) or any other unanticipated event occurs, the Project Manager, the Project Construction Manager, or the ECA shall:

- Immediately notify the SRNS-OSC. If necessary, the SRNS-OSC will notify the DOE-OSC.

- Stop work, secure the area, contain and stabilize the area, and determine any necessary change to the activity plan.

- Notify the SRNS-OSC of the findings and proposed path forward. The SRNS-OSC will communicate the information to the DOE-OSC and obtain concurrence on the path forward.

5. DOCUMENTATION & REPORTING

H Canyon will transmit the following documentation to the SRNS-OSC within twenty days of the completion of the activity:

- The signed O&M plan
- Any sampling and characterization data collected

The following information is not expected to be generated by this activity, but, if generated, will be forwarded to the SRNS-OSC:

- The quantity (if any) of any contaminated materials generated, and
- The disposal location of any contaminated material, if generated.

Attachments

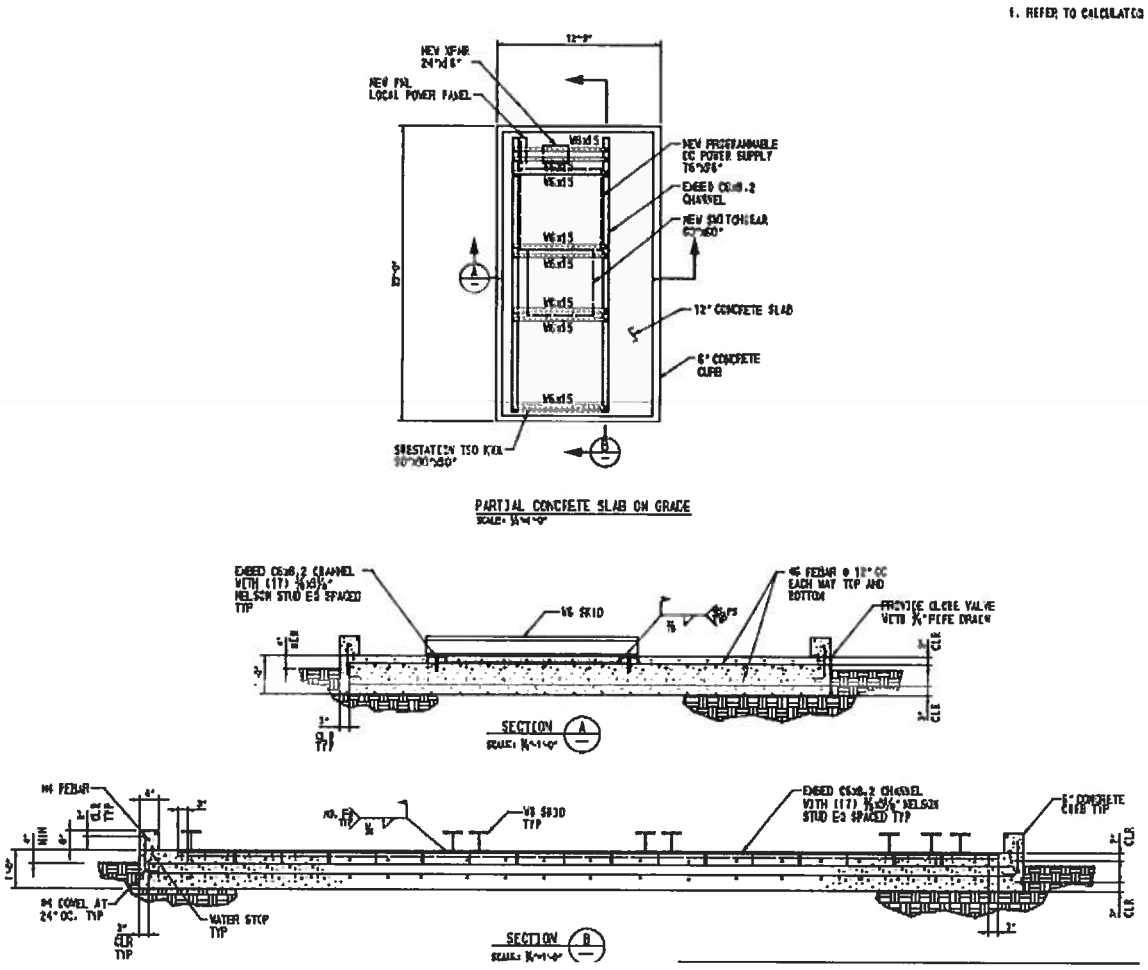
Attachment 1. **Slab on Grade Design**
Attachment 2. **H Area Electrical Map & Proposed Routing of 13.8 Duct Bank**
Attachment 3. **Electrolytic Dissolver Transformer and Rectifier**
Attachment 4. **Aerial View - H Canyon/OF-H Electrolytic Dissolver Transformer/Rectifier**
Attachment 5. **Waste Unit Boundaries**
Attachment 6. **Waste Unit Boundaries**
Attachment 7. **Waste Unit Boundaries**

References

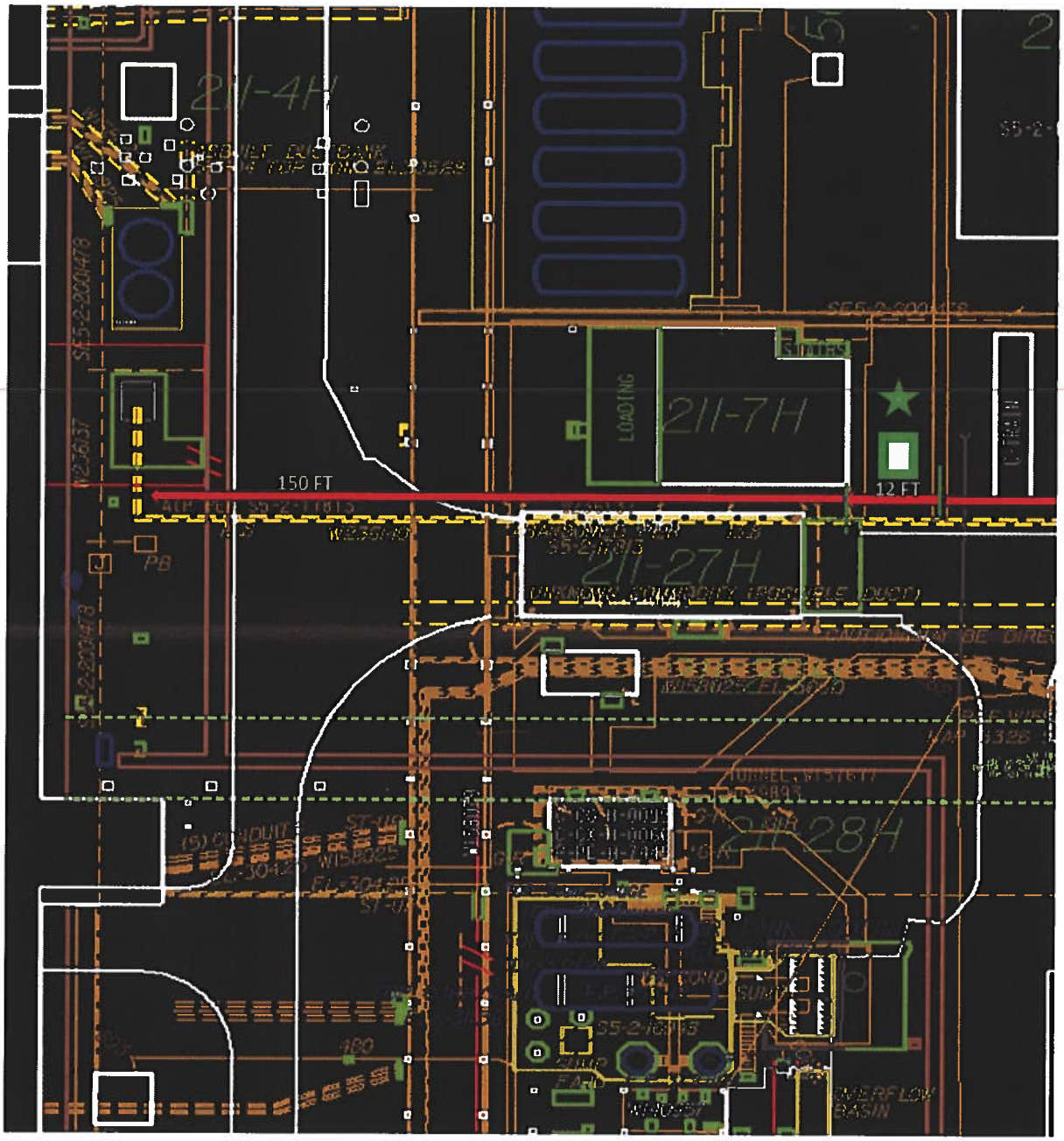
1. SRNS-OS-94-42, Federal Facility Agreement for the Savannah River Site, Administrative Document Number 89-05-FF, effective August 16, 1993, Revision 0 of Appendix C for Fiscal Year 2017.

2. SRNS-RP-96-45, *Savannah River Site Plan for Performing Maintenance in Federal Facility Agreement Area (O&M) Plan (U)*, December 15, 1996.

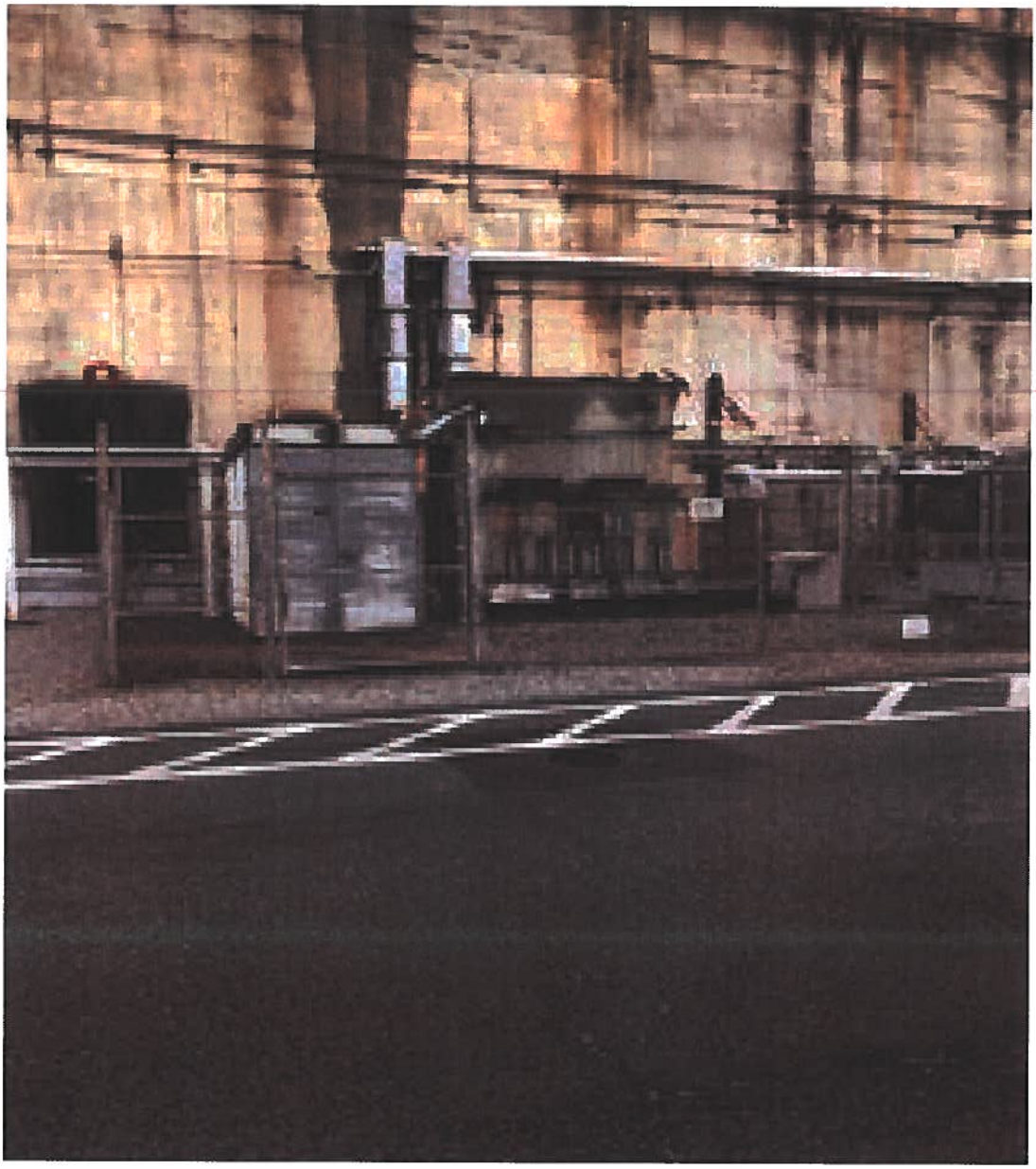
Attachment 1. Slab on Grade Design



Attachment 2. H Area Electrical Map & Proposed Routing of 13.8 Duct Bank

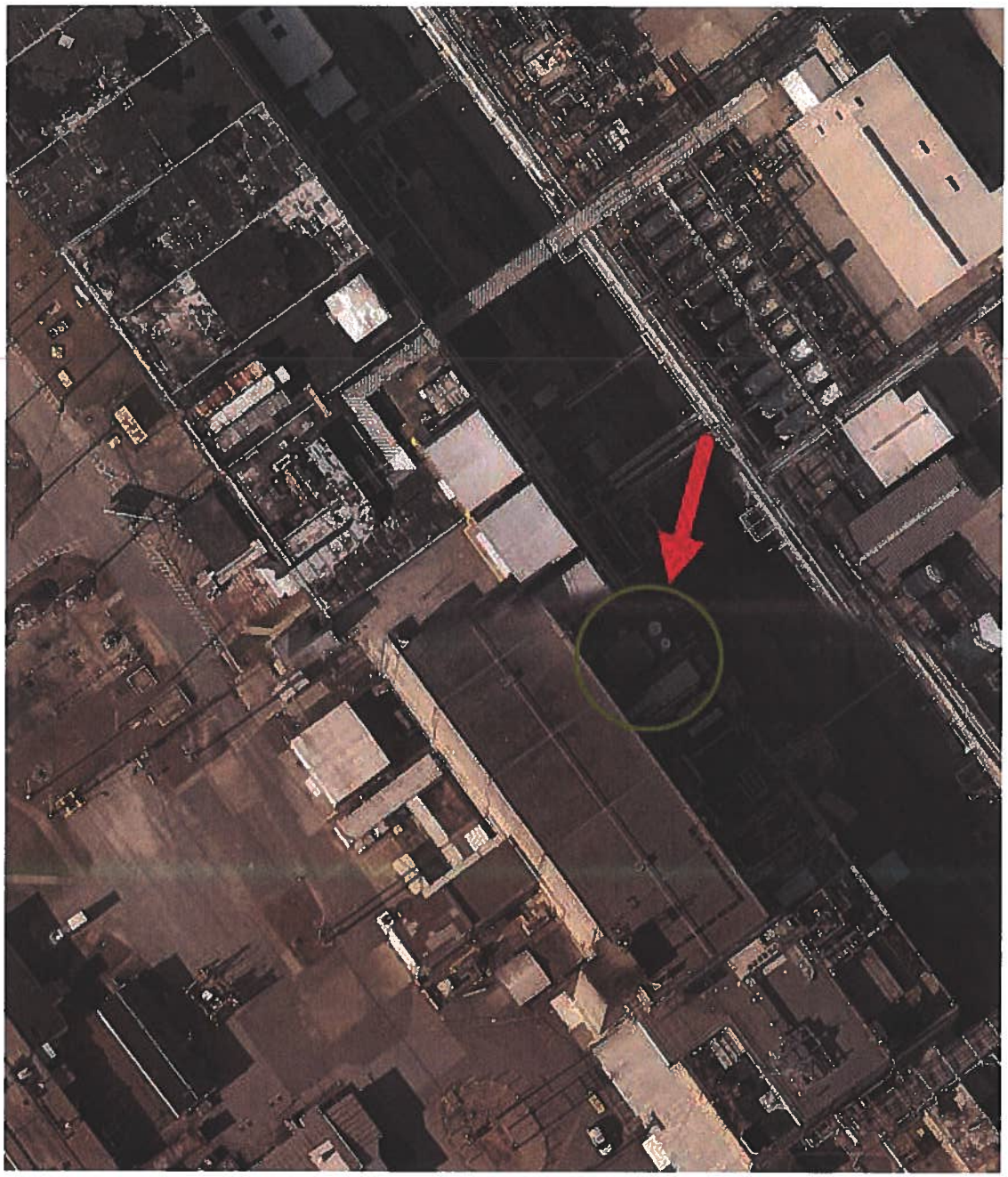


Attachment 3. Electrolytic Dissolver Transformer and Rectifier

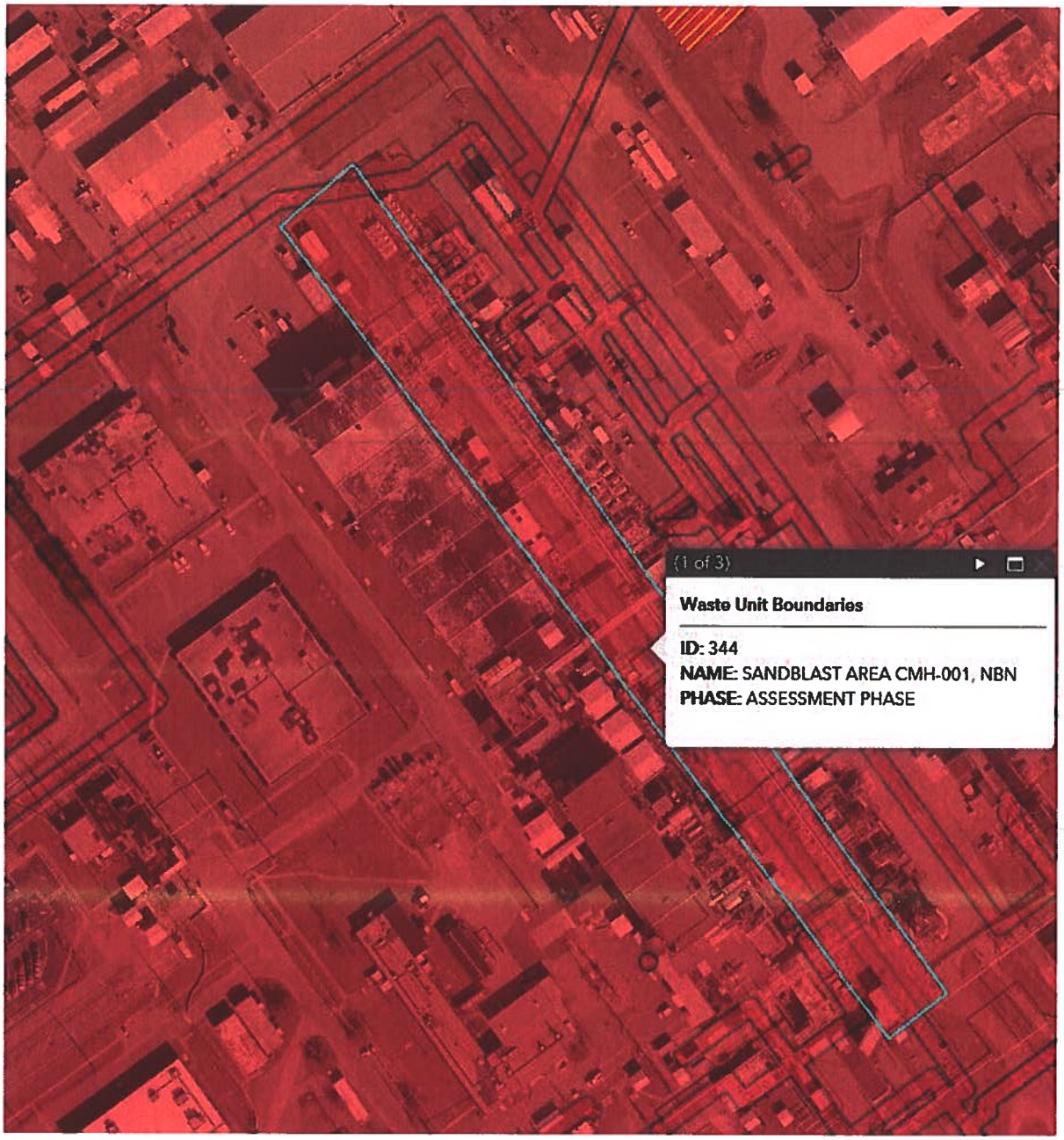


East Side of H Canyon

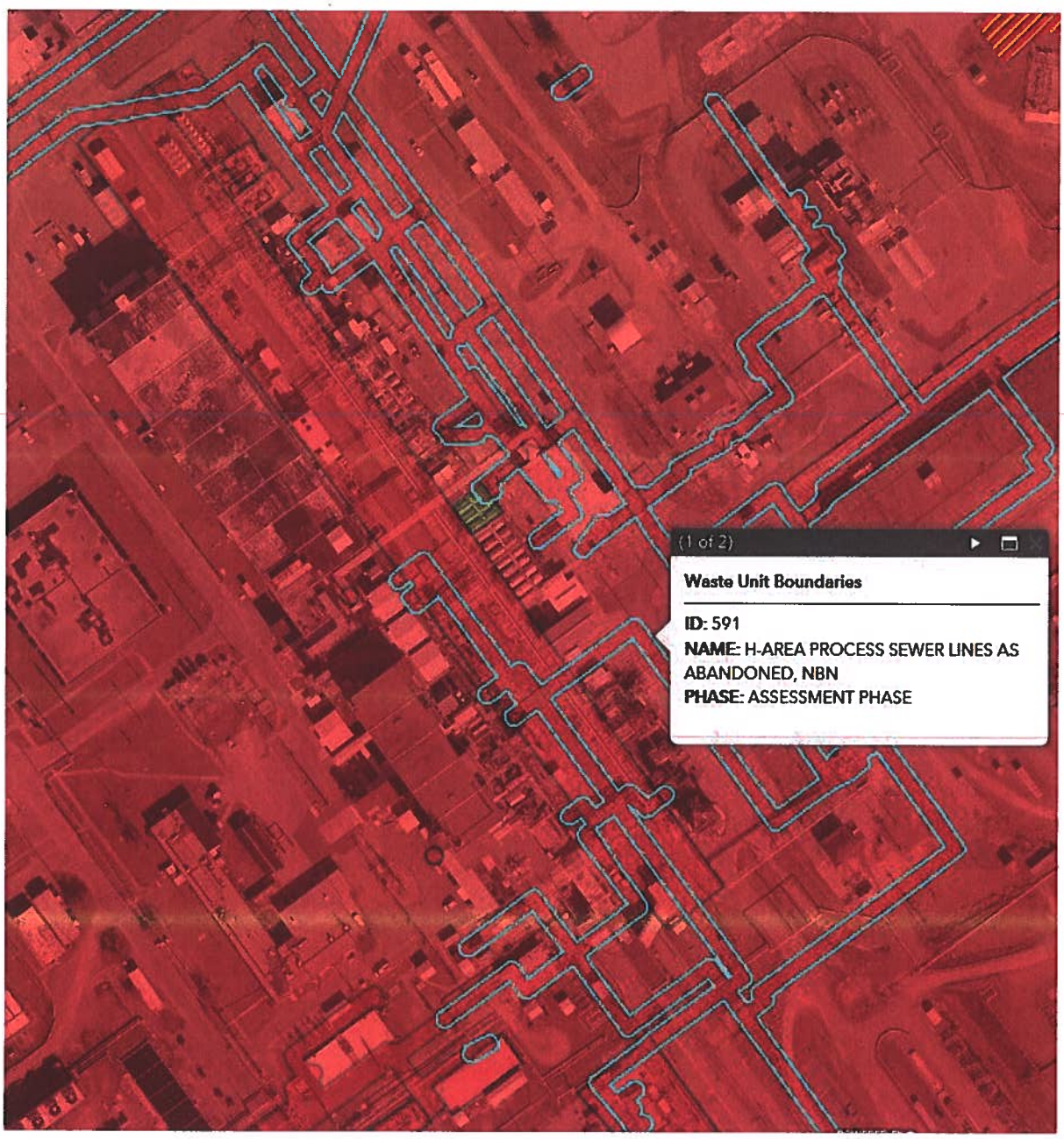
Attachment 4: Aerial View - H Canyon/OF-H Electrolytic Dissolver Transformer/Rectifier



Attachment 5: Waste Unit Boundaries



Attachment 6: Waste Unit Boundaries



Attachment 7: Waste Unit Boundaries

