Laurie E. Scheuing, PG, CPG
Project Manager

GE
25 Allen Street
Hudson Falls, NY 12839

M 518 429-4505
Laurie.Scheuing@ge.com

September 10, 2019

Ms. Jess LaClair
New York State Department of Environmental Conservation
Division of Environmental Remediation/Remedial Bureau D
625 Broadway, 12th Floor
Albany, New York 12233-7013

Subject: Revised "Self-Implementing Cleanup and Disposal Plan for PCB Remediation Waste – Building Demolition"
General Electric Company - Fort Edward, New York
Site No. 5-58-004; Consent Index No. D5-0001-2000-03

Dear Jess:

In February 2019, GE submitted to USEPA and NYSDEC the "*Self-Implementing Cleanup and Disposal Plan for PCB Remediation Waste – Building Demolition*" (SIP) related to GE's Fort Edward, New York facility (Site). USEPA approved the SIP in a letter dated March 28, 2019, authorizing GE to proceed with the cleanup and disposal as applicable under TSCA. In a letter dated June 13, 2019, the NYSDEC conditionally approved the SIP, with the understanding that GE would address three comments contained in their approval letter. Since submittal of the SIP, GE has advanced several aspects of the project, including contractor and waste disposal procurement activities, and anticipates activities will begin at the Site in late September.

GE has updated the SIP to reflect various project advances since the original submittal in February 2019 (e.g., waste disposal vendor selection and submittal of asbestos abatement variance requests). In addition, the revised SIP addresses the comments contained in the NYSDEC's June 13, 2019 approval letter. A summary of GE's response to each comment is provided below.

Comment 1. *Section 5.3 Building Demolition Activities – If there is not subslab data available for the Pump House (Building 24), the Departments recommend leaving the slab in place and handling the Building 24 slab in the same manner as portions of the slab in the main building where PCB concentrations exceed 25 mg/kg. Place a geotextile fabric followed by acceptable on-site material and/or imported fill material to provide cover. This slab will be managed and addressed as part of the future subsurface soil investigations at the site and included with the rest of the at-grade concrete building slabs.*

GE Response – There is no current subslab data available for the Pump House. Therefore, GE will restore the post-demolition, at-grade slab associated with the Pump House as recommended by NYSDEC and consistent with the restoration of portions of the Main Manufacturing Building where PCB concentrations in the at-grade slab exceed 25 mg/kg. The technical drawings have been revised to reflect this approach.

Comment 2. *Section 5.5 Project Restoration – Any cracks or perforations found in the building slab must be sealed prior to beginning any restoration work. Geotextile fabric and other fill materials specified in this work plan will not prevent impacts to ambient air should the cracks/perforations allow PCB material to breach from the subsurface.*

GE Response – In an email dated July 16, 2019, GE presented options to the NYSDEC to address building slab cracks and perforations. In response (email dated August 20, 2019), NYSDEC agreed with GE's recommended approach involving coating of the targeted slab areas with an asphalt emulsion (sprayed); NYSDEC indicated that specific areas could be determined once conditions allow a visual inspection. The SIP has been revised to include asphalt emulsion sealing of cracks larger than 1 inch or slab perforations greater than approximately 50 square inches prior to the placement of the geotextile/soil cover over the building slabs associated with former Buildings 23, 24, 25, 26, 27, and 33.

Comment 3. *The Departments are expecting a response to comments made on the Community Air Monitoring Plan (CAMP). In the revised CAMP, please provide a figure(s) showing proposed traffic flow and locations for temporary stockpiles.*

GE Response – GE has revised the CAMP based on the most recent comments from the Departments dated August 26, 2019; GE will submit that CAMP in the near-future and prior to any project activities that require implementation of perimeter ambient air monitoring. Regarding traffic flow and temporary stockpile locations within the Site, GE will receive that information from the Demolition Contractor as one of the required pre-project technical submittals. Once acceptable to GE, that information will be provided to the Departments.

Please feel free to contact me at 518-429-4505 if you have any questions or comments.

Sincerely,

Laurie Scheuing

Laurie Scheuing
Project Manager

Enclosure

cc: Hard Copy:
C. Vooris – NYSDOH
A. Park – USEPA

Electronic Copies:
S. Edwards – NYSDEC
J. Zalewski – NYSDEC
M. Murphy – NYSDEC
D. Sommer – Young Sommer
B. Gibson – GE
E. Merrifield – GE
J. Nuss – Arcadis
Z. Evans – AECOM

ARCADIS Design & Consultancy for natural and built assets

General Electric Company

SELF-IMPLEMENTING CLEANUP AND DISPOSAL PLAN FOR PCB REMEDIATION WASTE - BUILDING DEMOLITION

381 Broadway
Fort Edward, New York
Site No. 5-58-004
Order on Consent Index No. D5-0001-2000-03

September 10, 2019

SELF-IMPLEMENTING CLEANUP AND DISPOSAL PLAN FOR PCB REMEDIATION WASTE - BUILDING DEMOLITION

381 Broadway
Fort Edward, New York

Prepared for:

General Electric Company

25 Allen Street

Hudson Falls, NY 12839

Prepared by:

Arcadis of New York, Inc.

One Lincoln Center

110 West Fayette Street

Suite 300

Syracuse

New York 13202

Tel 315 446 9120

Fax 315 449 0017

Our Ref.:

ALL31333.1000

Date:

September 10, 2019

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FIGURE

APPENDICES

1 INTRODUCTION AND OBJECTIVES

This *Self-Implementing Cleanup and Disposal Plan for PCB Remediation Waste – Building Demolition* (Demolition Work Plan) describes the proposed demolition, including material and remediation waste disposition and related activities, of buildings and structures located at the General Electric Company (GE) property at 381 Broadway in Fort Edward, New York (the Site). As shown on Figure 1, the Project includes the demolition of the above-grade portions of Buildings 22, 23, 24, 25, 26, 27, 29, 31, 33, 34, 40, certain outbuildings, and exterior structures. As a result of past operations at this former manufacturing facility, building materials have been impacted by polychlorinated biphenyls (PCBs) and other constituents at levels that require remediation consistent with New York State requirements. The off-Site transportation and disposition of the PCB-containing demolition debris and other wastes, and the interim management of these materials while temporarily staged on-Site, will be in accordance with the applicable provisions of Title 40 Code of Federal Regulations (CFR) §761 --- the Toxic Substances Control Act (TSCA).

The Site is a New York State Department of Environmental Conservation (NYSDEC) inactive hazardous waste site (Site No. 5-58-004) and is subject to remediation pursuant to a 2001 Order on Consent (Index No. D5-0001-2000-03) between GE and NYSDEC. The remedial design and implementation plans are subject to approval by the NYSDEC. This Demolition Work Plan has also been organized to support the United States Environmental Protection Agency (USEPA) review and approval pursuant to 40 CFR §761.61(a) --- the TSCA "self-implementing cleanup" provisions. This Demolition Work Plan outlines the plan for above-grade demolition and post-demolition interim Site restoration, in consideration of post-Project safety, security and potential PCB mobilization and migration. The final Site restoration will be contemplated and addressed as part of the future subsurface soil investigations at the Site.

The primary objective of this Demolition Work Plan is to gain approval from the NYSDEC and the USEPA regarding the following items:

- GE's approach for demolition of certain structures at the Site.
- The proposed interim restoration plan for the Site.
- GE's plan for the off-Site disposition of PCB remediation waste based on pre-demolition characterization data, pursuant to 40 CFR §761.61(a) and the New York State Hazardous Waste Regulations, as materials with PCB concentrations above certain thresholds are a state-listed hazardous waste. Specifically, depending on the waste type and designation, GE intends to dispose of such materials via off-Site disposal at a TSCA-approved facility and/or disposal at a state- and federally-approved Resource Conservation and Recovery Act (RCRA) Subtitle C landfill. Section 2 of this Demolition Work Plan provides a summary of the requirements of the TSCA self-implementing provisions found at 40 CFR §761.61(a), and cross references the specific section of this document where such requirements are addressed.

The proposed demolition activities will result in several types of building demolition debris requiring disposition, primarily composed of masonry and steel, and lesser amounts of wood, process equipment, interior building components (e.g., HVAC, utility lines, partition walls), and miscellaneous debris. The majority of these materials will be transported off-Site for final disposition; concrete, brick, and other similar inert material will be reused at the Site, subject to several conditions described herein.

The activities associated with the demolition of the buildings/structures are referred to in this Demolition Work Plan as the "Project." This Demolition Work Plan describes the anticipated activities and procedures to be completed prior to, during, and following completion of the Project. Additional planning, design, and implementation details are included as attachments to this Demolition Work Plan, including building material characterization results, technical drawings, technical specifications, and Petitions for Asbestos Variances (Variance Petitions), submitted to the New York State Department of Labor (NYSDOL) on July 6, 2018 and subsequent approval, with conditions, from the NYSDOL dated September 14, 2018.

2 TSCA SELF-IMPLEMENTING PROVISIONS

The following table provides a summary of the requirements of the TSCA self-implementing provisions found at 40 CFR §761.61(a) and identifies where each requirement is addressed in this Demolition Work Plan.

TSCA Self-Implementing Provision	Demolition Work Plan Section That Provision is Addressed
40 CFR §761.61(a)(3)(i)(A) – Description of the nature and extent of contamination.	Section 3; Section 4; Appendix A; Appendix B; Appendix C
40 CFR §761.61(a)(3)(i)(B) – Summary of sample collection procedures and PCB concentrations in pre-cleanup characterization samples.	Appendix A
40 CFR §761.61(a)(3)(i)(C) – Location and extent of the identified contaminated areas.	Appendix B
40 CFR §761.61(a)(3)(i)(D) – Cleanup plan for the Site, including schedule, disposal technology, and approach.	Section 5; Section 8
40 CFR §761.61(a)(3)(i)(E) – Written certification by property owner that all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to characterize the site are on file at the location designated in the certificate and available for EPA inspection.	Appendix D - Certification Statement – Party Conducting Cleanup

3 BACKGROUND

The Site is located in the Town of Fort Edward, approximately 800 feet east of the Hudson River between the Villages of Hudson Falls (to the north) and Fort Edward (to the south). The Site is approximately 32 acres in size and is bound by the Washington County Offices to the north, Broadway/US Route 4 to the east, Park Avenue to the south, and Canadian Pacific Railroad and Lower Allen Street to the west.

The Site contains the Main Manufacturing Building (approximately 295,000 square feet [sf], including Building Nos. 22, 23, 25, 26, 27, 29, 31, and 33), Building 40 (approximately 95,000 sf), Water Treatment Plant (WTP) (West Vaco; approximately 4,500 sf), and several other outbuildings, including a guard house, pump house (Building 24), hazardous waste storage building (Building 30), etc. The original buildings (Building Nos. 22, 23, guard house, guard shack, pump house) were constructed in 1942 by the U.S.

Government as an aircraft turret manufacturing plant. Between 1942 and 1946, GE leased the buildings from the government for the manufacture of selsyn motors. GE purchased the property in 1946 and began manufacturing small and large capacitors. New buildings and building additions were constructed at the Site through the mid-1970s, with the notable addition of Building 25 in 1959, Building 40 in 1961, and Buildings 26 and 27 in 1967.

Operations related to capacitor production at the Site included aluminum rolling, tin plating, surface coating, vapor degreasing, capacitor recovery and salvage operations, polypropylene film manufacture, refining and blending of dielectric fluids, and quality control operations. Among the products used in various operations were PCBs, organic solvents, and kerosene. PCB use at the facility was discontinued in 1977; use of organic solvents and kerosene-based fluids was discontinued in 1995.

Manufacturing operations were discontinued in the spring of 2016 and transferred to a new facility in Clearwater, Florida. Closure activities were then initiated by GE with only a few administrative staff remaining on-Site to provide business and building decommissioning support, and a few operations staff to periodically perform quality assurance/quality control (QA/QC) testing of electrical equipment. Limited electrical equipment testing was performed until those operations were transferred to the new facility in late 2017.

Several remedial activities are currently being performed at the Site as part of long-term operations and maintenance (O&M) activities under the direction of the NYSDEC, in accordance with the January 2000 *Record of Decision (ROD); GE Fort Edward Plant Site; Town of Fort Edward, Washington County; Site Number 5-58-004; Operable Units 3 and 4*. These activities include the recovery of non-aqueous phase liquid (NAPL) and groundwater throughout the Site via associated groundwater extraction wells. Recovered groundwater and stormwater are treated at the WTP prior to discharge to the Hudson River under current State Pollutant Discharge Elimination System (SPDES) permit number NY-007048. In addition, over the last two years, several building decommissioning activities have taken place within the Site, including removal of asbestos-containing material (ACM), Universal Wastes, and regulated materials.

4 BUILDING MATERIAL CHARACTERIZATION ACTIVITIES

Since 2013, GE has performed equipment/material sampling associated with pre-closure building decommissioning, demolition pre-design activities, and building material characterization activities to identify regulated materials such as asbestos, Universal Wastes (e.g., mercury-containing switches, fluorescent bulbs, light ballasts, sprinkler heads) and/or other materials (e.g., hazardous substances, oils and similar fluids, lead paint). The characterization activities also included an assessment of building materials for potential impacts associated with their original materials of construction and/or as a result of prior facility operations. The results of these activities were then used to develop certain components of the Project, including previously-conducted decommissioning activities, pre-demolition activities, demolition planning, and material-specific disposition plans for building demolition debris (e.g., off-Site disposal or on-Site reuse).

Building material characterization activities performed from July 2017 through October 2018, consistent with Arcadis' *Work Plan – Building Material Characterization for Disposal*, submitted to the NYSDEC and USEPA on July 14, 2017, Arcadis' *Supplemental Work Plan – Building Material Characterization for* Disposal, submitted to NYSDEC and USEPA on October 16, 2017, GE's *Response to Comments* –

November 16, 2017 USEPA Correspondence and December 13, 2017 NYSDEC Correspondence submitted to NYSDEC and USEPA on January 18, 2018, and Arcadis' *Building 40 Work Plan – Building Material Characterization for Disposal*, submitted to NYSDEC and USEPA on June 14, 2018 (collectively, Work Plans). On December 13, 2017, GE received a response from NYSDEC indicating that it had no further comment related to the Main Manufacturing Building Work Plans; GE received a response from the USEPA on January 22, 2018 indicating the same. On June 26, 2018, GE received a response from USEPA indicating that it had no comment related to the Building 40 Work Plan; GE received a response from NYSDEC on July 30, 2018 indicating the same.

Building material characterization activities included the collection of building material samples (e.g., wood, concrete brick, block, drywall, roofing, paint, window caulk and glaze, galbestos, structural steel, corrugated metal panels, bulk debris) for analysis of PCBs, and an assessment of certain bulk materials for potential RCRA hazardous waste by characteristic, involving Toxicity Characteristic Leaching Procedure (TCLP) analysis for VOCs, SVOCs, and metals. The number of samples collected was in conformance with the NYSDEC and USEPA sampling density requests in response to the Work Plans.

The building characterization activities are summarized in the *Building Characterization Summary Report*, which was submitted to the NYSDEC and USEPA on November 15, 2018 (Appendix A).

5 PROJECT OVERVIEW

This section provides an overview of the various components of the Project. The information summarized in this section is further described in Appendix B (Technical Drawings), Appendix C (Technical Specifications), and Appendix E (Variance Petitions).

Building demolition activities are generally anticipated to include the following:

- Utility disconnections/re-routes, assuming minimal subsurface intrusion.
- Removal of remaining ACM, Universal Wastes, and/or regulated materials. GE has endeavored to remove non-structural environmental and/or regulated materials within the Site; however, the Contractor will be required to verify existing conditions and remove any regulated materials (if identified) prior to commencing demolition of discrete building areas.
- Controlled demolition of the above-grade portions of the Main Manufacturing Building, Building 40, and certain other outbuildings.
- Sizing, handling, loading, and management of building debris (including materials of building construction; interior building features, components, and equipment; and ancillary items present within the Project Site) for off-Site transportation and disposal. These materials will be appropriately segregated by waste type and nature/extent of impacts based on previous building material characterization sampling, such as TSCA-regulated, non-TSCA-regulated, RCRA-hazardous, ACM, as well as others. Certain materials may also be segregated for off-Site recycle.
- Potential sizing of suitable inert materials (e.g., building masonry) for on-Site reuse as backfill. Based on the results of building characterization activities (i.e., sampling and analysis data), masonry material will be subject to reuse at the Site if the material does not contain concentrations greater than 25 mg/kg for PCBs. This PCB criterion is based on the NYSDEC Program Policy*, DER-10 (Technical Guidance*

for Site Investigation and Remediation) given that the current and future Site use will be restricted to industrial activity.

- Post-demolition interim Site restoration, which is anticipated to involve backfill / grading of pits and uneven topography to promote positive drainage and stormwater management and installation of a surface cover over certain portions of the building slabs.
- Ancillary activities to support demolition, including dust and odor control (as needed), air monitoring, erosion and sediment control, survey control, and traffic control.

5.1 Applicable Regulations / Guidance

Based on a review of federal, state, and local regulations and guidance, the following are applicable to one or more aspects of the Project:

Regulation / Guidance	Reference(s)
Identification and Listing of Hazardous Wastes	6NYCRR Part 371
TSCA PCB Regulations	40 CFR §761
New York State Hazardous Waste Regulations	6NYCRR Parts 364, 370, 371, 372, 373, 376
Occupational Safety and Health Administration (OSHA) Regulations	29 CFR §1910, §1926, §1904
Resource Conservation Recovery Act Regulations	40 CFR §170-179, §261, §262, §263, §264.111, §264.30-264.31, §264.50-264.56
Department of Transportation (DOT) Rules for Transportation of Hazardous Materials	49 CFR §107, §171.1-172.558
New York State Waste Transporter Permits	6NYCRR Part 364
NYSDEC Soil Remediation Guidance	*Final Policy DER-10 Technical Guidance for Site Investigation and Remediation* (DER-10; May 2010)

5.2 Site Preparation and Pre-Demolition Activities

Several activities will be performed prior to the start of demolition activities and generally include the following:

- Coordination, as appropriate, with the Town of Fort Edward; Washington County; the NYSDEC; the New York State Department of Health (NYSDOH); the NYSDOL; and the USEPA related to permits/approvals, protective measures, traffic controls, and utilities during implementation of the Project.
- Development of various administrative, health and safety, technical submittals, and work plans by the Contractor. These submittals are needed to satisfy GE's contractual requirements, provide specific technical information where required, and describe the means and methods if not otherwise specified in the Technical Drawings and Technical Specifications. Some of the submittals that may be prepared include the following:

  - Site-Specific Health and Safety Plan
  - Sediment and Erosion Control Plan
  - Traffic Control / Site Transportation Plan
  - Airborne Emissions Management Plan
  - Respiratory Protection Program
  - Utility Management Plan
  - Paint and Debris Removal Plan
  - Asbestos Abatement Plan
  - Demolition Plan
  - Decontamination Plan
  - Material Management Plan
  - Documentation of Contractor Licensure & Training
  - Documentation of Permits/Approvals for the Project
- Participation in a Site safety orientation conducted by GE for all Contractor and subcontractor personnel.
- Installation of erosion and sedimentation controls and additional security fencing (as needed) to ensure that access to the Project work limits is secured, controlled, and monitored.
- Installation of various Project support areas, including Contractor office space; temporary processing and staging areas for demolition debris subject to off-Site disposal; on-Site storage areas for materials subject to future on-Site reuse; equipment decontamination areas; on-Site truck scale; temporary sanitary facilities; etc.
- Coordination with GE's on-Site operations personnel concerning on-going remedial actions associated with NAPL collection, extraction, and monitoring systems; WTP operations; and other Site-related maintenance and monitoring activities.
- Installation of additional traffic control measures as needed between the Site and adjacent public roadways, as well as within the Site, such as signage, barriers, and flagging/flagman for trucks entering the public roadway during certain high-traffic conditions.
- Demarcation and installation of protective measures in areas within the Site that potentially represent a work place safety hazard (e.g., pits, sumps, vaults, floor-slab openings).
- Installation of protective measures to prevent damage to accessible sewer structures (e.g., manhole covers, catch basin grates, roof drain piping) from heavy equipment loads, increased traffic flow, and/or discharge of debris from entering the features via direct discharge, rainfall or snowmelt runoff.
- Protection of structures and utilities designated to remain active, recovery and monitoring wells, groundwater conveyance piping, and roadways.

- Termination, or verification of prior termination, of utility services (e.g., natural gas, water [domestic and fire protection], electric and telecommunication service), in coordination with utility service owner(s).
- Demarcation of building areas and materials where special deconstruction and material handling activities are required (e.g., areas subject to disposal as TSCA-regulated materials, re-usable masonry material, ACMs).
- Procurement and set-up of air monitoring equipment to be used during the Project in accordance with the Community Air Monitoring Plan (CAMP) – Demolition of Existing Buildings, previously submitted to NYSDEC, the USEPA, and the NYSDOH for review and approval on October 22, 2018. NYSDEC and NYSDOH review comments to the CAMP were received on February 15, 2019 and were addressed in a revised CAMP submittal to the agencies on July 22, 2019. Additional NYSDEC/NYSDOH comments were received on August 26, 2019 and will be addressed in the revised CAMP being prepared for submittal in early September 2019.
- Pre-demolition removal and disposition of ACMs, Universal Wastes, and/or regulated materials remaining prior to (or during) demolition. As noted above, non-structural environmental and/or regulated materials have been removed from the buildings in anticipation of Project activities; however, the Contractor will be required to verify existing conditions and remove any regulated materials (if identified) prior to commencing demolition of discrete building areas.
- Removal, segregation, containerization, and off-Site disposal of dislodged, loose, flaking, peeling, and separated paint and surface debris throughout the Project Site, consistent with the Technical Specifications (Appendix C). Performance of the work pertaining to disturbance of these materials will comply with Occupational Safety and Health Administration (OSHA) 29 CFR §1926.62 “Lead in Construction Regulations.” Removal of paint that is well adhered to the subject material will not be performed. Loose paint material will be collected from surfaces using methods that minimize generation of airborne dust.

Once the above activities have been completed, building demolition will commence.

5.3 Building Demolition Activities

Demolition will generally involve the removal of above-slab portions of the buildings and structures (e.g., interior and exterior walls, roof systems, structural supports, windows, doors, lighting, HVAC components, equipment); former tanks and elevated tank foundations; utilities; and other ancillary items (e.g., concrete curbing, guardrails, bollards, elevated equipment pads, inactive utility poles) that are attached to or are in close proximity to the buildings and structures. Demolition also includes removal of non-concrete flooring attached to or resting on the at-grade slab (e.g., wood block floor, floor tiles). In addition, the at-grade concrete slab of the Pump House (Building 24) will remain in place. Demolition will be performed using current industry-standard procedures and equipment, and will preclude the use of wrecking balls and explosives.

It is anticipated that the work will be sequenced so that demolition of Buildings 23, 25, 33, and TSCA-regulated portions of Building 27 occur during cooler months (October through April) to reduce the potential for temperature-related PCB air impacts to the surrounding community. The specific demolition means and methods will be determined based on discussions with the selected Contractor, and will consider the

structural integrity of the building during demolition, the available space for equipment operations (including material handling, sizing, staging, loading, transport); and the need to separately demolish, remove, and segregate portions of the building based on subsequent material disposition (i.e., off-Site disposal vs. on-Site reuse).

Demolition of Building 23 will be performed in accordance with the Variance Petition, submitted to the NYSDOL on July 6, 2018 and subsequent approval, with conditions, from the NYSDOL dated September 14, 2018 (Appendix D). The demolition of Buildings 29 and 31 will be performed in accordance with the individual Variance Petitions, submitted to the NYSDOL on April 23, 2019. NYSDOL provided approval of the Building 29 and 31 variance petitions on May 1 and 7, 2019, respectively. Disposal of demolition debris that is co-mingled with ACM roofing within this building will be managed as ACM waste; non-porous, cleanable materials (e.g., structural steel, metal components) may be decontaminated for subsequent disposal/salvage as non-ACM waste. Prior to demolition of the ACM roof, the Contractor will be required to remove or relocate items within Building 23, 29, and 31 that are not integral to the building infrastructure, such as piping, equipment, partition walls, tanks, debris, and refuse to reduce the amount of demolition debris co-mingled with ACM roofing.

Building demolition debris will be subject to processing and sizing depending on its subsequent disposition, outlined on the Technical Drawings and in the Technical Specifications. Materials that are subject to off-Site transportation and disposal will, at a minimum, be processed and sized in a designated area within the Project Site to meet the requirements of the transportation containers and the off-Site receiving disposal facility.

For materials that are subject to future on-Site re-use (i.e., masonry material that does not contain PCBs greater than 25 mg/kg), processing will be performed within the Project Site in a designated area to remove structural steel reinforcing bars (rebar) and other material, and to reduce the size of the debris. Once sized, the material will be used to backfill certain sub-grade structures (e.g., vaults, pits, sumps, trenches, etc.) to match the surrounding grade elevation; to eliminate grade changes that present a potential trip or fall hazard, including without limitation between the perimeter building slab/foundation and the adjacent ground surface; and to provide surface cover over certain areas of the certain building slabs not subject to removal.

Painted steel and equipment within the Main Manufacturing Building and outbuildings will be managed as TSCA-regulated based on the levels of PCBs detected in paint chip samples. The Contractor will be permitted to propose methods to decontaminate certain painted metal surfaces in compliance with 40 CFR §761.79 by removing paint to a Visual Standard No. 3, Commercial Blast Cleaned Surface Finish, of the National Association of Corrosion Engineers (NACE) in order to salvage the material following a visual inspection for compliance. Painted steel and equipment generated from the demolition of Building 40 can be salvaged based on the building characterization results for that building, subject to additional confirmation PCB wipe sampling prior to off-Site salvage.

Structural steel and metal building components that are coated with primer only, are considered “unpainted” and will generally be recycled based on the building characterization results for that building. Unpainted or primer-coated metal within certain building areas (i.e., structural steel in the Main Manufacturing Building, tanks within the Building 25 Tank Farm and Building 33 Refinery) will first require cleaning and wipe sampling prior to recycle (pending analytical results).

In certain areas of Building 26 and Building 27, as identified on the Technical Drawings, the concrete slab has PCB concentrations greater than 35 mg/kg whereas the above-grade components can be managed as non-TSCA-regulated solid waste. In these areas, the Contractor will be required to sufficiently cover the concrete slab prior to, and maintain throughout, building demolition to avoid contact between non-TSCA waste materials and the concrete slab. As part of post-demolition interim Site restoration activities, this temporary cover will be removed and replaced with masonry/imported fill material cover. The at-grade concrete building slabs will be managed and addressed as part of the future subsurface soil investigations at the Site.

Certain roofing materials contain lead concentrations regulated under RCRA (i.e., Building 22 and portions of Building 27). The Contractor will be required to remove these materials in a manner that prevents co-mingling of this material with the underlying building materials and will be transported off-Site for appropriate disposition.

The prevention of airborne dust and tracking of materials from the Project Site to off-Site areas is a critical component of the Project. To mitigate dust and tracking, several work practices may be implemented throughout the project, including:

- Applying water to areas/activities of potential dust generation.
- Applying water to exposed material piles.
- Covering material piles with anchored sheeting or tarps.
- Reducing surface area of exposed material.
- Modifying the rate and/or sequencing of demolition activities, or specific methods.
- Modifying material handling methods.
- Modifying vehicular traffic.

GE intends to use the final approved CAMP to be submitted to the NYSDEC in early September 2019 to monitor ambient air quality and assess potential airborne Project-related particulates during demolition activities.

5.4 Material Handling, Transportation, and Disposition of PCB Remediation Waste

Several types of waste materials will be generated during demolition activities. The on-Site management of these Project materials will involve a number of activities and controls, including:

- Removal, segregation, and staging of materials in a manner that does not combine or mix materials subject to different disposition designations. Staging areas will be constructed within the Project Site at location(s) that will facilitate loading of materials into transport containers for off-Site disposal.
- Processing, sizing, and preparation of materials as necessary to support off-Site transportation and disposal and/or on-Site reuse.

- Cleaning, control, and prevention measures to eliminate the unplanned movement, migration, tracking, or placement of materials within the Site.

Loading and transport activities will adhere to project safety requirements; traffic patterns; and weighing, tarping, and placarding of transport vehicles, as required. Disposal activities will be documented and recorded. Documentation will include transport information (e.g., rail car/truck identification, loaded weight, and weigh tickets), waste manifests, and copies of disposition facility receipts. Containers transporting demolition debris off-Site for disposal will meet the requirements of the Hazardous Materials Regulations 49 CFR §171-180 and DOT requirements. Containers will be lined with polyethylene sheeting or equivalent material, or otherwise be water-tight and equipped with waterproof tarps. Vehicles will be loaded in such a manner as to prevent waste materials from contacting the vehicle exterior surfaces (including tires/wheels). Before leaving the Site, vehicles will be inspected and cleaned of visible soil or debris.

PCB Remediation Waste will be transported off-Site for appropriate disposition. For the PCB Remediation Waste that is subject to off-Site landfill disposal, GE intends to use US Ecology Wayne Disposal, Inc. landfill located in Belleville, Michigan (USEPA Region 5). This facility is USEPA-approved to accept and dispose of PCB waste in accordance with TSCA regulations. GE will provide written notification to the waste facility at least 15 days before the first shipment of PCB Remediation Waste.

It is anticipated that the following types and quantities of waste materials will be generated as part of building demolition activities:

Description	Unit	Estimated Quantity
Non-Friable Asbestos Containing Materials		
Non-Hazardous, Non-Regulated, PCBs < 1 mg/kg	TON	80
Non-TSCA[1]	TON	50
TSCA[2]	TON	3,500
Masonry Materials		
Non-TSCA	TON	4,635
TSCA	TON	1,200
General Construction & Demolition Materials		
Non-Hazardous, Non-Regulated, PCBs < 1 mg/kg	TON	700
Non-TSCA	TON	1,820
TSCA	TON	580
RCRA	TON	200
TSCA/RCRA	TON	135
Metals, Steel, Equipment		
Non-TSCA	TON	2,080
TSCA	TON	3,200

Description	Unit	Estimated Quantity
Paint Chips		
Non-TSCA	DRUM	11
TSCA	DRUM	31
RCRA[3]	DRUM	6
TSCA/RCRA[4]	DRUM	11

1. Non-TSCA – Non-RCRA-Hazardous; Non-TSCA-Regulated; PCBs < 35 mg/kg
2. TSCA – Non-RCRA-Hazardous; TSCA-Regulated; PCBs ≥ 35 mg/kg
3. RCRA – RCRA-Hazardous; Non-TSCA-Regulated; PCBs < 35 mg/kg
4. TSCA/RCRA – RCRA-Hazardous; TSCA-Regulated; PCBs ≥ 35 mg/kg

5.5 Project Restoration

Unless otherwise identified, following building demolition, the at- and below-grade building materials will remain in-place at the Site. Therefore, several interim restoration activities have been identified in consideration of post-Project safety, security and potential PCB mobilization and migration, summarized as follows:

- Cleaning of remaining surfaces (e.g., at-grade concrete slabs) to remove demolition debris and related residual materials.
- Plugging or backfilling select sub-grade structures (e.g., vaults, pits, sumps, trenches) to match the surrounding grade elevation using acceptable on-Site materials and/or imported fill material.
- Apply an asphalt emulsion (or similar material) to seal larger cracks (i.e., larger than 1 inch) or slab perforations greater than approximately 50 square inches prior to the placement of the geotextile/soil cover over the building slabs associated with former Buildings 23, 24, 25, 26, 27, and 33 as identified in the technical drawings. Once demolition activities allow, a visual inspection will be conducted to assess the exposed slab conditions and identify possible areas for sealing.
- Placement of geotextile followed by acceptable on-Site materials and/or imported fill material to provide cover over certain building slabs exposed by Project activities where PCB concentrations exceed 25 mg/kg and are not subject to removal as part of this Demolition Work Plan. Since there is no subslab data available, the entire Pump House slab will also receive a geotextile/soil cover.
- Implementation of interim stormwater management measures, including installation of a berm around certain portions of the building slabs (i.e., along east side adjacent to Broadway and north side adjacent to Washington County property) and conversion of existing roof drain slab penetrations to slab surface drains.
- Restoration and/or repair of surfaces, pavements, fencing, curbs, culverts and sewer structures, and other features disturbed, damaged or destroyed during the Project that were not otherwise identified for demolition.
- General housekeeping activities to restore the Project Site to a clean, safe, debris-free condition.

After the post-demolition interim Site restoration activities are complete, the Contractor will clean and remove its Project equipment; materials; temporary staging, support and decontamination areas; and security measures.

6 DECONTAMINATION OF EQUIPMENT

The equipment and materials that contact impacted materials will either be decontaminated in accordance with the procedures in 40 CFR §761.79 prior to demobilization from the Site or properly disposed off-Site.

Equipment to be decontaminated will be staged in an established decontamination area constructed to collect residual debris and wash waters and to prevent overspray when washing equipment. The decontamination area will be appropriately lined with polyethylene sheeting. Decontamination efforts will be focused on areas of equipment that have the potential to have come in contact with impacted materials (e.g., buckets, tracks, shears). Smaller equipment, such as pumps or hand tools, will be wiped with detergent-containing wipes.

The first round of equipment decontamination will include gross removal of visible debris from the equipment using shovels, brooms, and/or other hand tools, and washing the equipment using pressure washers. Following this decontamination, wipe samples will be collected in accordance with 40 CFR §761.79 and analyzed for PCBs using USEPA method 8082A to confirm PCB concentrations are less than 10 µg/100cm^2. Wipe samples will be collected from every 1 square meter unless the equipment has more than 3 square meters that have been in contact with contaminated materials. For equipment that has greater than 3 square meters of exposed area, samples will be collected over a minimum of 10 percent of the exposed area or three areas, whichever is greater.

Should the wipe sample results exhibit concentrations above 10 µg/100cm^2, a second round of decontamination will be performed utilizing a steam pressure washer, followed by another round of wipe sampling. If necessary, based on the second round of wipe sampling results, a third round of decontamination will be performed applying a non-surfactant detergent and a steam pressure wash, followed by another round of wipe sampling. Surface agitation with a broom or mop containing the detergent may also be used. Equipment will be staged on-Site in a designated holding area and will not be cleared for demobilization from the Site until wipe sample results exhibit concentrations below 10 µg/100 cm^2.

Solid materials generated during the decontamination process will be placed into DOT-approved containers for off-Site disposal. Decontamination residuals and wash waters generated during the decontamination process will be conveyed to the on-Site WTP for treatment.

An Equipment Decontamination Form will be completed for each piece of equipment to be demobilized, noting the equipment name, date of sample collection, number and designation/location of sample(s), sample number, sample collector, and sample results.

7 PROJECT DOCUMENTATION

Upon completion of the demolition activities, a summary report will be prepared and submitted to the NYSDEC and the USEPA. The report will include the following information:

- Description of the completed work.
- Drawings, tables, and figures detailing and documenting the completed work.
- Information and documentation regarding the final quantities of materials disposed of during implementation of work, including executed manifests.
- Analytical results for any additional waste characterization sampling conducted during the work.
- Perimeter air monitoring results, including monitoring for PM_{10} and VOCs, and PCB analyses.
- Photographs documenting the work conducted.
- Work-related permits.
- Deviations from the cleanup and disposal approach.

8 PROJECT SCHEDULE

The USEPA provided approval of the SIP on March 28, 2019. The NYSDEC similarly provided conditional approval on June 13, 2019. Following NYSDEC unconditional approval, GE will advance plans to implement the proposed work. GE plans to initiate demolition contracting activities concurrent with NYSDEC and USEPA review in order to facilitate the commencement of building demolition in late 2019. GE will provide updates regarding Project initiation and schedule through the monthly status reports and other routine communications.

FIGURE

LEGEND:

- BUILDING
- BUILDINGS/STRUCTURES TO BE DEMOLISHED
- EXTERIOR EQUIPMENT AREA SUBJECT TO DEMOLITION
- INTERIOR BUILDING LINES
- PROPERTY LINE (APPROXIMATE)
- GRASS
- WATER
- FENCE
- RAILROAD
- PROJECT WORK LIMITS

NOTES:

1. BASE MAP SOURCE PROVIDED BY O'BRIEN & GERE.
2. SITE AND PROJECT FEATURES ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR.
3. DEMOLITION INCLUDES THE ABOVE-GRADE PORTIONS OF BUILDINGS 22, 23, 24, 25, 26, 27, 29, 31, 33, 34, 40, CERTAIN OUTBUILDINGS, EXTERIOR STRUCTURES, AND THE ELECTRICAL HIGH YARD, AS IDENTIFIED. DEMOLITION OF BUILDING 30, THE GUARD HOUSE, WASTEWATER TREATMENT PLANT, BUILDING 21, BUILDING 35, TRANSFER BUILDING, DNAPL SHED, GE TRAILER, AND OTHER STRUCTURES NOT IDENTIFIED FOR DEMOLITION ARE NOT INCLUDED IN THIS PROJECT.
4. DEMOLITION INCLUDES WITHOUT LIMITATIONS THE ABOVE-GRADE BUILDING INFRASTRUCTURE; FORMER TANKS; FORMER ABOVE-GRADE TANK FOUNDATIONS; UTILITIES; LIGHTING; HVAC COMPONENTS; AND EQUIPMENT, MATERIALS, DEBRIS AND OTHER ANCILLARY ITEMS THAT ARE ATTACHED TO OR PRESENT IN CLOSE PROXIMITY TO THE BUILDINGS AND STRUCTURES. DEMOLITION ALSO INCLUDES REMOVAL OF NON-CONCRETE FLOORING DOWN TO THE AT-GRADE SLAB (e.g., WOOD BLOCK FLOOR, FLOOR TILES).

0 80' 160'
GRAPHIC SCALE

GENERAL ELECTRIC COMPANY
FORT EDWARD, NEW YORK
SELF-IMPLEMENTING CLEANUP AND DISPOSAL PLAN FOR PCB REMEDIATION WASTE - BUILDING DEMOLITION

SITE PLAN

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

APPENDIX A

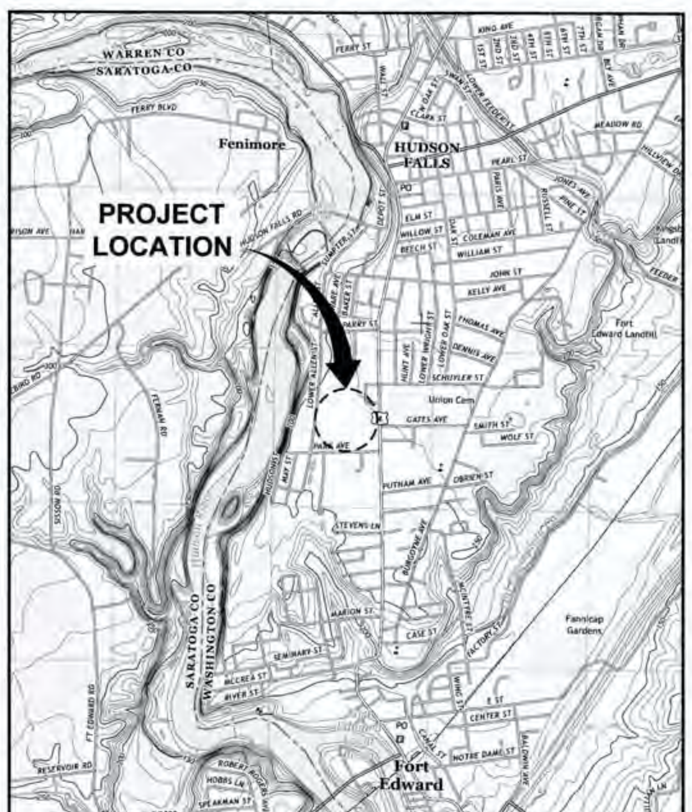
Building Material Characterization Report

(provided separately)

APPENDIX B

Technical Drawings

BUILDING DEMOLITION TECHNICAL DRAWINGS



REFERENCE: BASE MAP USGS 7.5 MINUTE QUADRANGLE, HUDSON FALLS, NEW YORK, 2013.

LOCATION MAP

0 2000' 4000'
GRAPHIC SCALE

NEW YORK

General Electric Company
FORT EDWARD, NEW YORK

JULY 2019

ISSUED FOR CONSTRUCTION
JULY 19, 2019

ARCADIS Design & Consultancy for natural and built assets

ARCADIS OF NEW YORK, INC.

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

STATE OF NEW YORK · LICENSED PROFESSIONAL ENGINEER · 073688

INDEX TO DRAWINGS

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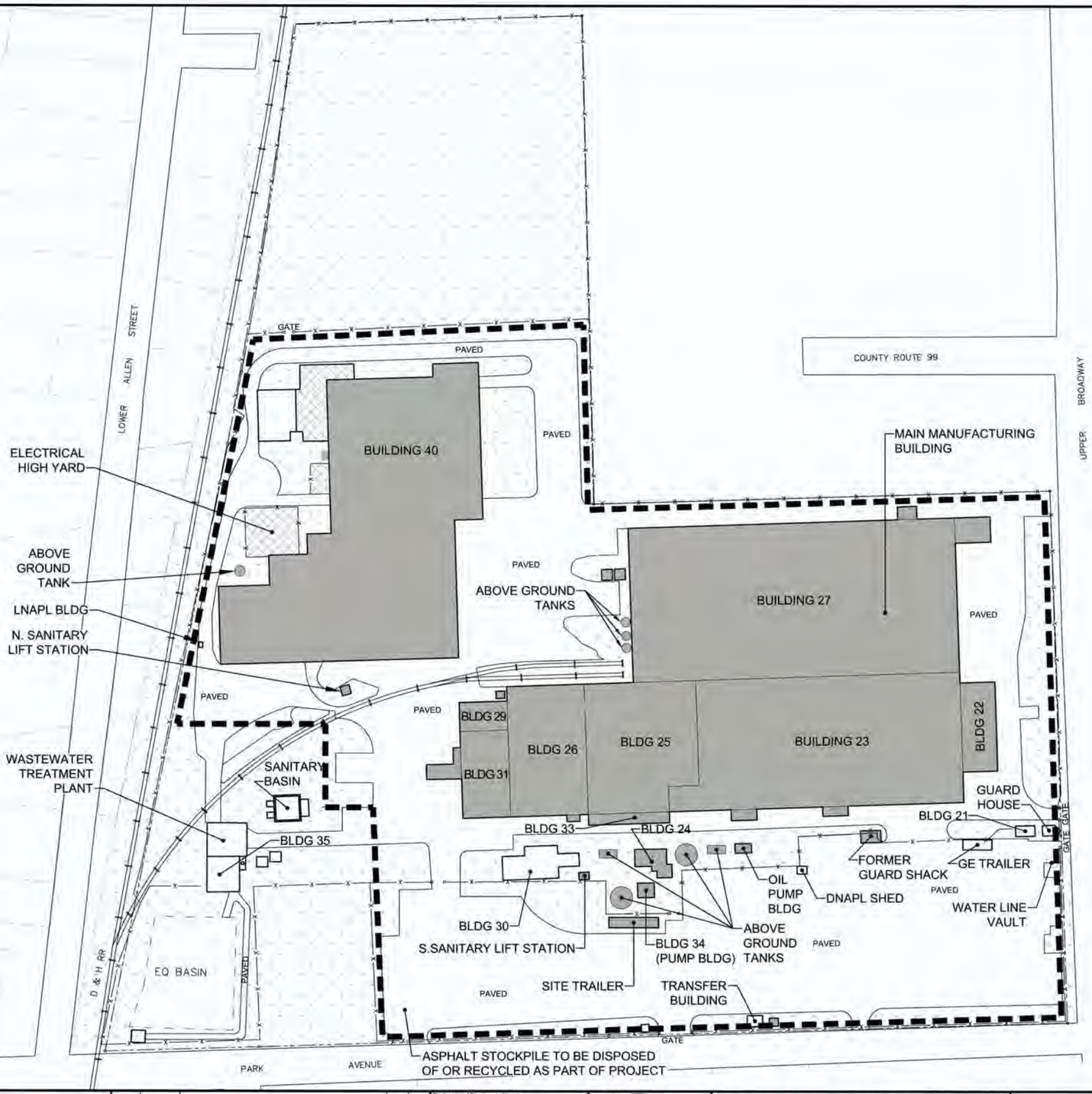

LEGEND:

- BUILDING
- BUILDINGS/STRUCTURES TO BE DEMOLISHED
- EXTERIOR EQUIPMENT AREA SUBJECT TO DEMOLITION
- INTERIOR BUILDING LINES
- PROPERTY LINE (APPROXIMATE)
- GRASS
- WATER
- FENCE
- RAILROAD
- PROJECT WORK LIMITS

NOTES:

1. BASE MAP SOURCE PROVIDED BY O'BRIEN & GERE.
2. SITE AND PROJECT FEATURES ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR.
3. CONTRACTOR SHALL COORDINATE PROJECT ACTIVITIES WITH ONGOING SITE OPERATIONS.
4. CONTROLLED ACCESS TO THE WORK AREA SHALL BE MAINTAINED BY CONTRACTOR AT ALL TIMES.
5. DEMOLITION ACTIVITIES SHALL BE CONDUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, CONTRACTOR'S APPROVED DEMOLITION PLAN, AND APPLICABLE LAWS, AND LOCAL AND STATE CODES, RULES AND REGULATIONS.
6. DEMOLITION INCLUDES THE ABOVE-GRADE PORTIONS OF BUILDINGS 22, 23, 24, 25, 26, 27, 29, 31, 33, 34, 40, CERTAIN OUTBUILDINGS, EXTERIOR STRUCTURES, AND THE ELECTRICAL HIGH YARD, AS IDENTIFIED. DEMOLITION OF BUILDING 30, THE GUARD HOUSE, WASTEWATER TREATMENT PLANT, BUILDING 21, BUILDING 35, TRANSFER BUILDING, DNAPL SHED, GE TRAILER, AND OTHER STRUCTURES NOT IDENTIFIED FOR DEMOLITION ARE NOT INCLUDED IN THIS PROJECT.
7. DEMOLITION INCLUDES WITHOUT LIMITATIONS THE ABOVE-GRADE BUILDING INFRASTRUCTURE; FORMER TANKS; FORMER ABOVE-GRADE TANK FOUNDATIONS; UTILITIES; LIGHTING; HVAC COMPONENTS; AND EQUIPMENT, MATERIALS, DEBRIS AND OTHER ANCILLARY ITEMS THAT ARE ATTACHED TO OR PRESENT IN CLOSE PROXIMITY TO THE BUILDINGS AND STRUCTURES. DEMOLITION ALSO INCLUDES REMOVAL OF NON-CONCRETE FLOORING DOWN TO THE AT-GRADE SLAB (e.g., WOOD BLOCK FLOOR, FLOOR TILES).
8. THE OWNER HAS REMOVED UNIVERSAL WASTES, INTERIOR/EXTERIOR ACMs, AND CERTAIN ROOF ACMs THROUGHOUT THE SITE IN ANTICIPATION OF DEMOLITION ACTIVITIES; HOWEVER, NOT ALL REGULATED MATERIALS WERE REMOVED. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION AND REMOVAL OF PROJECT MATERIALS THAT ARE WITHIN THE CONTRACT WORK AREA AT THE TIME OF CONTRACT EXECUTION.
9. PRIOR TO THE INITIATION OF DEMOLITION ACTIVITIES, THE CONTRACTOR SHALL ENSURE THAT ALL PRE-DEMOLITIONS ACTIVITIES HAVE BEEN COMPLETED TO THE SATISFACTION OF THE CM, INCLUDING BUT NOT LIMITED TO, UTILITY TERMINATIONS, REMOVAL OF LOOSE PAINT AND DEBRIS FROM BUILDING SURFACES, REMOVAL OF UNIVERSAL WASTES, REMOVAL OF ACM, AND PERMANENT AND/OR TEMPORARY PLUGGING OF SLAB PENETRATIONS.
10. DEMOLITION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 02005 (BUILDING/STRUCTURE DEMOLITION) AND PERFORMED TO FACILITATE THE SEGREGATION OF MATERIALS BASED ON THEIR TYPE, QUANTITY, AND PLANNED DISPOSITION (e.g., OFF-SITE DISPOSAL/RECYCLING, ON-SITE CRUSHING AND PLACEMENT). DURING DEMOLITION, THE MATERIALS IDENTIFIED FOR OFF-SITE DISPOSAL SHALL BE MOVED FROM THE ACTIVE WORK AREA IN AN ORGANIZED AND TIMELY MANNER, AND EITHER PLACED INTO MATERIAL-SPECIFIC TEMPORARY STOCKPILES OR INTO CONTAINERS FOR SUBSEQUENT OFF-SITE TRANSPORTATION. MATERIALS IDENTIFIED FOR ON-SITE REUSE SHALL BE SIZED PRIOR TO PLACEMENT IN TEMPORARY STOCKPILING AREAS.
11. CONTRACTOR SHALL UNDERTAKE MEASURES NECESSARY TO CONTROL PARTICULATE MATTER AND VISIBLE EMISSIONS DURING THE PROJECT DUE TO DEMOLITION, MATERIAL LOADING/UNLOADING, CRUSHING OPERATIONS, VEHICLE TRAVEL, AND OTHER ACTIVITIES. CONTRACTOR SHALL PROVIDE AND MAINTAIN, IN THE IMMEDIATE VICINITY OF THE WORK, AN ADEQUATE SUPPLY OF WATER AND MULTIPLE MEANS OF DISPERSION (e.g., WATER TANKS, SPRAYERS, MISTERS, HOSES, TANKER TRUCK WITH HOSES) SUCH THAT WATER MAY BE APPLIED FOR DUST CONTROL AS REQUIRED, AT MULTIPLE LOCATIONS, IN ACCORDANCE WITH THE APPROVED AIRBORNE EMISSIONS MANAGEMENT PLAN, DEMOLITION CAMP, AND OTHER RELEVANT CONTRACT DOCUMENTS.
12. THE CONTRACTOR SHALL PREPARE VARIOUS WORK PLANS, TECHNICAL SUBMITTALS, AND PROJECT DOCUMENTS (INCLUDING PERMITS/NOTIFICATIONS) AS IDENTIFIED IN THE CONTRACT DOCUMENTS TO IMPLEMENT THE PROJECT. ANY DOCUMENTS REQUIRING FINAL SUBMITTAL TO AN ENTITY OTHER THAN THE OWNER SHALL BE FIRST SUBMITTED TO THE OWNER FOR REVIEW AND APPROVAL.

CITY: SYRACUSE, NY DIV/GROUP: EBC/MDV DB: L.POSENAUER PM: W.RANKIN TM: K.GAJEWSKI LYR:ON=*;OFF=*REF*
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1"=80'

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No.	Date	Revisions	By	Ckd

Professional Engineer's Name: **WILLIAM A. RANKIN III**
Professional Engineer's No.: 073688
State: NY | Date Signed: 7/18/19 | Project Mgr.: KEG
Designed by: KEG | Drawn by: LJP | Checked by: WAR

STATE OF NEW YORK — WILLIAM ALLEN RANKIN — 073688 — LICENSED PROFESSIONAL ENGINEER

ARCADIS Design & Consultancy for natural and built assets
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GENERAL ELECTRIC COMPANY • FORT EDWARD, NEW YORK
BUILDING DEMOLITION - TECHNICAL DRAWINGS

PROJECT WORK LIMITS AND DEMOLITION WORK PLAN

ARCADIS Project No.: 30006366 - ARC1327.3001A
Date: JULY 2019

ARCADIS
ONE LINCOLN CENTER
110 WEST FAYETTE STREET
SYRACUSE, NEW YORK 13202
TEL. 315.446.9120

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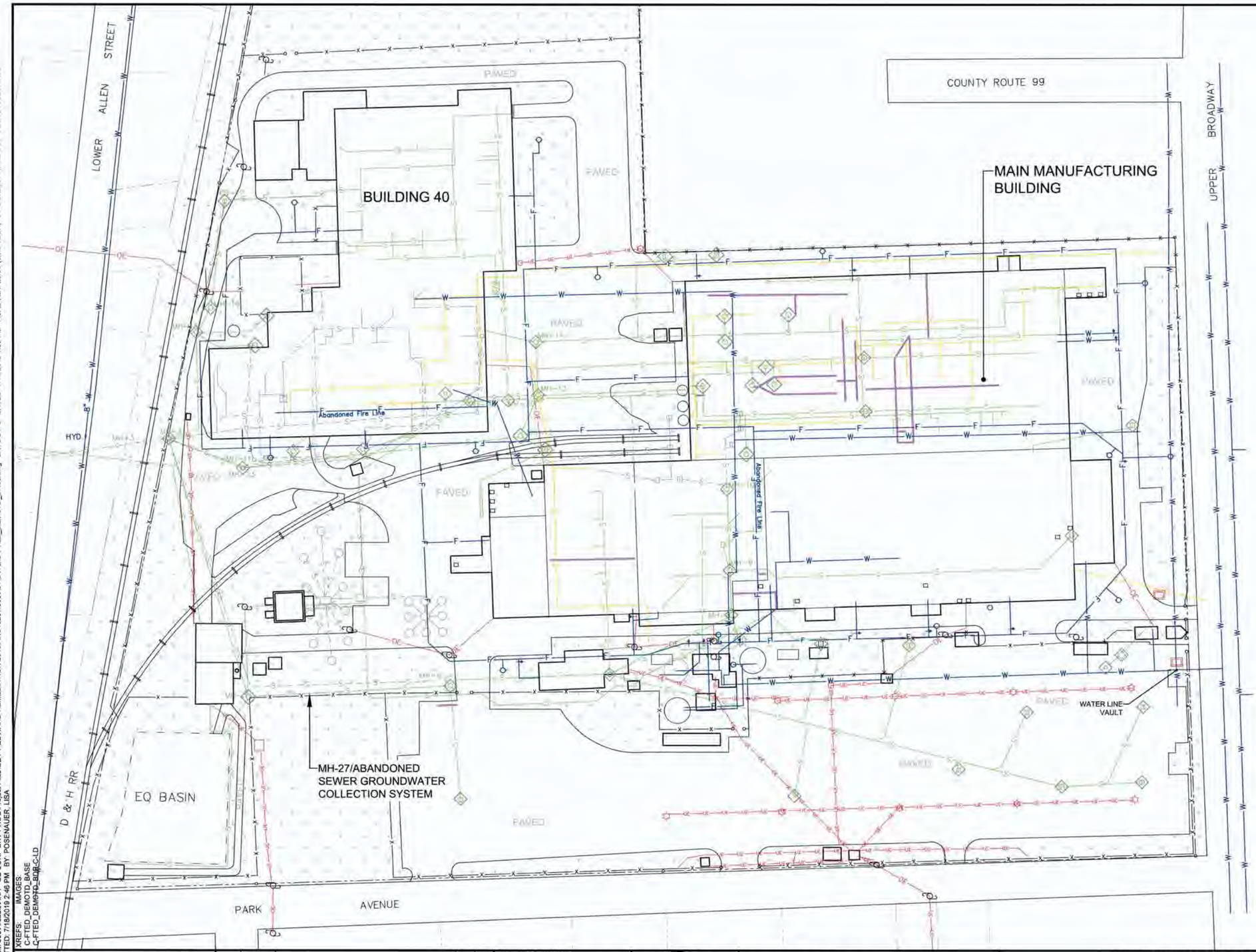

LEGEND:

- BUILDING
- INTERIOR BUILDING LINES
- PROPERTY LINE (APPROXIMATE)
- GRASS
- WATER
- FENCE
- RAILROAD
- TRENCH
- FIRE LINE
- NATURAL GAS LNE
- OVERHEAD ELECTRIC
- UNDER GROUND ELECTRIC
- SANITARY/SEWER
- FORMER SANITARY/SEWER
- WATER
- WATER MANHOLE
- FIRE HYDRANT
- OUTSIDE SCREW AND YOKE VALVE (OS&Y)
- CATCH BASIN
- MANHOLE
- OIL/WATER SEPARATOR
- PITS
- UTILITY POLE
- LIGHT POLE
- ELECTRIC MANHOLE
- TRAFFIC SIGNAL BOX
- EXISTING SITE FEATURE TO BE PROTECTED

NOTES:

1. REFER TO DRAWING 1 FOR BASEMAP INFORMATION.
2. UTILITY LOCATIONS ARE APPROXIMATE AND BASED ON HISTORICAL DRAWINGS WHICH MAY NOT BE COMPLETE OR ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING UTILITY LOCATIONS PRIOR TO DEMOLITION.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH THE REQUIREMENTS OF EACH UTILITY SERVICE PROVIDER, AS DETAILED IN THE PROJECT TECHNICAL SPECIFICATIONS.
4. THE CONTRACTOR SHALL TERMINATE SITE UTILITY SERVICES (e.g., NATURAL GAS, WATER [DOMESTIC AND FIRE PROTECTION], ELECTRIC, AND TELEPHONE), IN COORDINATION WITH UTILITY SERVICE PROVIDERS AND OWNER, IN ACCORDANCE WITH SPECIFICATION SECTION 02001.
5. ADDITIONAL UTILITY FEATURES AND INFRASTRUCTURE RELATED TO THE ON-SITE REMEDIAL SYSTEMS ARE PRESENTED ON FIGURE 3.

60' 0 60' 120'
1"=60'

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No.	Date	Revisions	By	Ckd

Professional Engineer's Name: WILLIAM A. RANKIN III		
Professional Engineer's No.: 073688		
State: NY	Date Signed: 7/18/19	Project Mgr.: KEG
Designed by: KEG	Drawn by: LJP	Checked by: WAR

STATE OF NEW YORK WILLIAM ALLEN RANKIN 073688 LICENSED PROFESSIONAL ENGINEER

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ARCADIS OF NEW YORK, INC.

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BUILDING DEMOLITION - TECHNICAL DRAWINGS

SITE UTILITIES / UTILITY PROTECTION

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SYRACUSE, NEW YORK 13202
TEL. 315.446.9120

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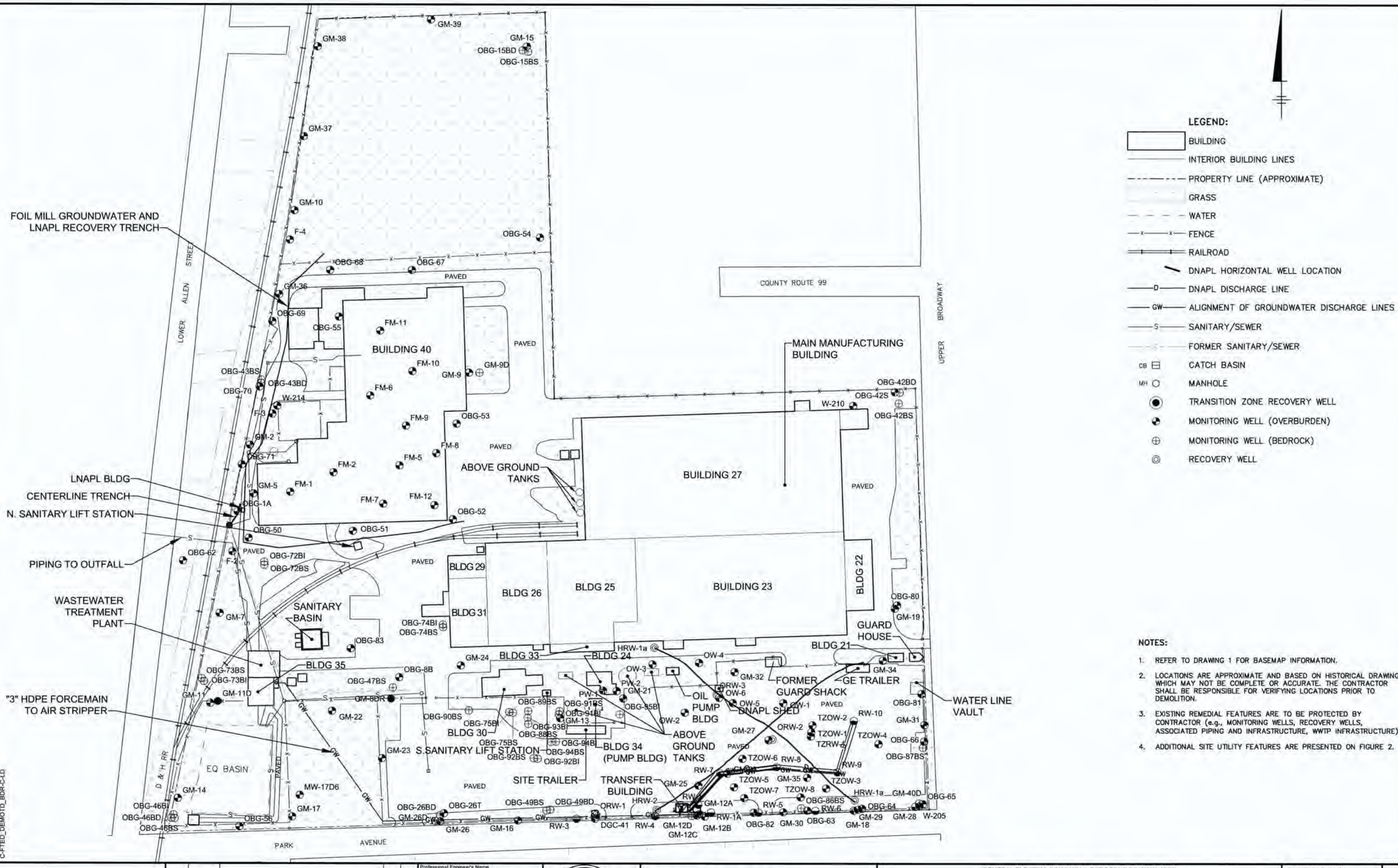

LEGEND:

- BUILDING
- INTERIOR BUILDING LINES
- PROPERTY LINE (APPROXIMATE)
- GRASS
- WATER
- FENCE
- RAILROAD
- DNAPL HORIZONTAL WELL LOCATION
- D — DNAPL DISCHARGE LINE
- GW — ALIGNMENT OF GROUNDWATER DISCHARGE LINES
- S — SANITARY/SEWER
- FORMER SANITARY/SEWER
- CB — CATCH BASIN
- MH — MANHOLE
- TRANSITION ZONE RECOVERY WELL
- MONITORING WELL (OVERBURDEN)
- MONITORING WELL (BEDROCK)
- RECOVERY WELL

NOTES:

1. REFER TO DRAWING 1 FOR BASEMAP INFORMATION.
2. LOCATIONS ARE APPROXIMATE AND BASED ON HISTORICAL DRAWINGS WHICH MAY NOT BE COMPLETE OR ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS PRIOR TO DEMOLITION.
3. EXISTING REMEDIAL FEATURES ARE TO BE PROTECTED BY CONTRACTOR (e.g., MONITORING WELLS, RECOVERY WELLS, ASSOCIATED PIPING AND INFRASTRUCTURE, WWTP INFRASTRUCTURE).
4. ADDITIONAL SITE UTILITY FEATURES ARE PRESENTED ON FIGURE 2.

CITY: SYRACUSE, NY DIV/GROUP: EBC/MIDV DB: LPOSENAUER PM: W.RANKIN TM: K.GAJEWSKI LYR:ON=*;OFF=*REF*
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No.	Date	Revisions	By	Ckd

Professional Engineer's Name: WILLIAM A. RANKIN III		
Professional Engineer's No.: 073688		
State: NY	Date Signed: 7/18/19	Project Mgr.: KEG
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BUILDING DEMOLITION - TECHNICAL DRAWINGS

REMEDIAL FEATURES PROTECTION PLAN

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ARCADIS
ONE LINCOLN CENTER
110 WEST FAYETTE STREET
SYRACUSE, NEW YORK 13202
TEL. 315.446.9120

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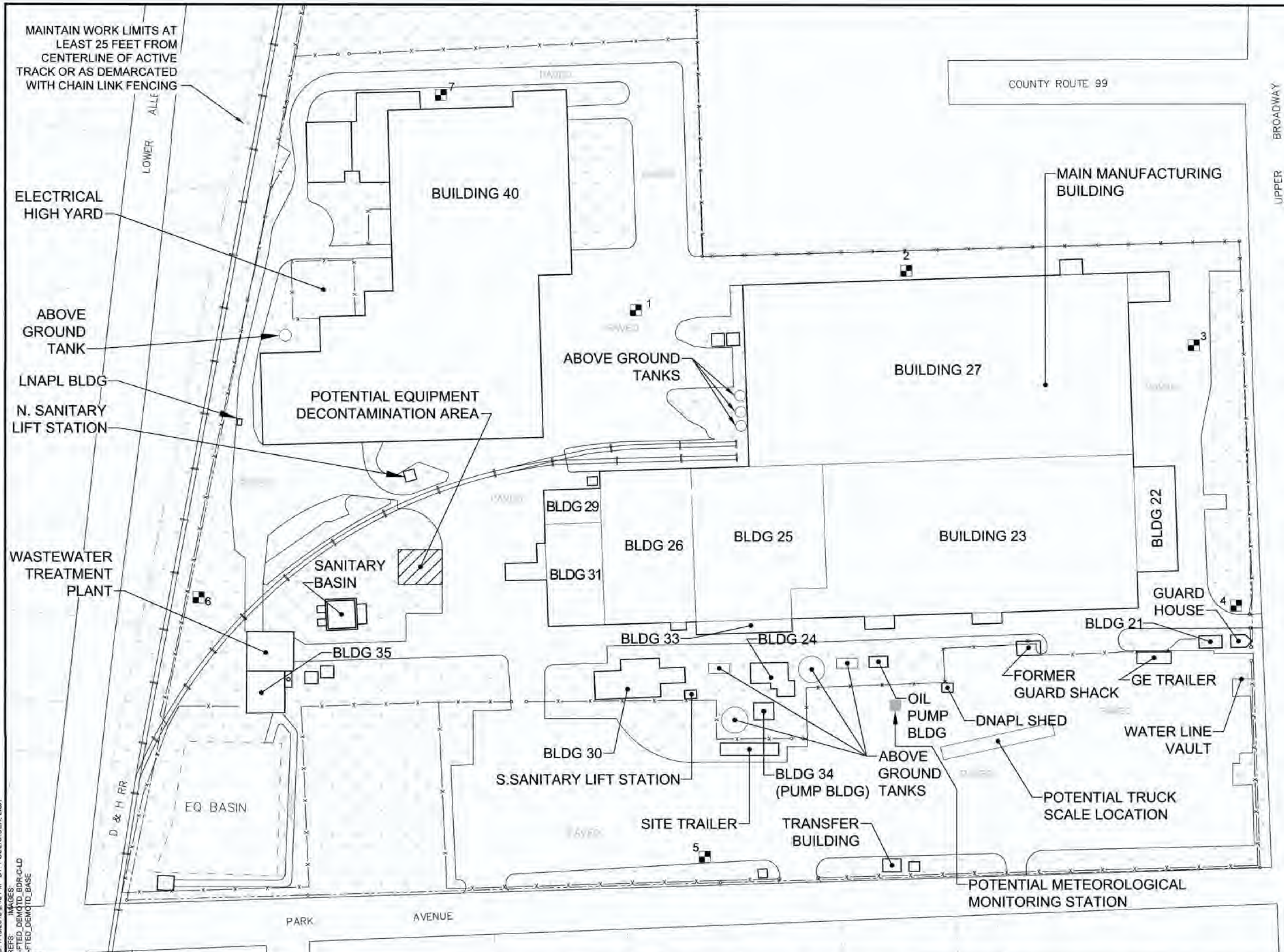


LEGEND:

- BUILDING
- INTERIOR BUILDING LINES
- PROPERTY LINE (APPROXIMATE)
- GRASS
- WATER
- FENCE
- RAILROAD
- DEMOLITION AIR MONITORING STATION
- METEOROLOGICAL MONITORING STATION
- POTENTIAL EQUIPMENT DECONTAMINATION AREA

NOTES:

1. REFER TO DRAWING 1 FOR BASEMAP INFORMATION.
2. SITE AND PROJECT FEATURES ARE APPROXIMATE AND SHALL BE VERIFIED BY CONTRACTOR.
3. THE CONTRACTOR SHALL PROTECT EXISTING SITE FEATURES LOCATED WITHIN THE PROJECT SITE NOT OTHERWISE DESIGNATED FOR DEMOLITION, INCLUDING, BUT NOT LIMITED TO THOSE FEATURES IDENTIFIED IN DRAWINGS 1 THROUGH 4. EXISTING FEATURES TO BE PROTECTED SHALL BE SAFEGUARDED BY STAKES, FLAGGING, PAINT, AND/OR CONSTRUCTION FENCE FOR THE DURATION OF PROJECT ACTIVITIES.
4. CONTRACTOR SHALL IMPLEMENT MEASURES TO PREVENT LIQUIDS AND DEBRIS FROM ENTERING PITS, SUMPS, VAULTS, TRENCHES, ETC. SUCH MEASURES SHALL INCLUDE PLUGGING OF DRAINS OR OUTLETS, FILLING CRACKS WITH NON-SHRINK GROUT (OR APPROVED SEALANTS), AND/OR PLACEMENT OF A TEMPORARY COVER OVER THE OPENINGS.
5. THE CONTRACTOR SHALL DEMARCATE AND PROTECT AREAS WITHIN THE PROJECT SITE THAT POTENTIALLY REPRESENT A WORK PLACE SAFETY HAZARD (e.g., PITS, SUMPS, OPENINGS, VAULTS).
6. WITH APPROVAL OF THE CONSTRUCTION MANAGER, THE CONTRACTOR SHALL DEMARCATE AREAS WITHIN THE PROJECT SITE WHERE SPECIAL DEMOLITION AND MATERIAL HANDLING ACTIVITIES ARE REQUIRED (e.g., AREAS SUBJECT TO DISPOSAL AS TSCA-REGULATED MATERIALS, RE-USABLE MASONRY MATERIALS, ACMs).
7. CONTRACTOR SHALL INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO INITIATING DEMOLITION ACTIVITIES. LOCATION OF EROSION AND SEDIMENT CONTROL MEASURES MAY VARY BASED ON SITE CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH SPECIFICATION SECTION 02371 AND BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL. CONTRACTOR SHALL ESTABLISH AND MAINTAIN PERIMETER EROSION AND SEDIMENT CONTROL MEASURES AT MATERIAL STAGING AND DECONTAMINATION AREAS.
8. CONTRACTOR SHALL PREVENT MIGRATION OF DEBRIS, FUELS, SOLVENTS, LUBRICANTS, OR OTHER POLLUTANT BEYOND THE CONTRACT WORK AREA AND ONTO PUBLIC ROADS. MATERIALS TRACKED OR OTHERWISE SPILLED/DROPPED ONTO OFF-SITE AREAS SHALL BE REMOVED IMMEDIATELY AT CONTRACTOR'S SOLE EXPENSE.
9. TRUCKS AND EQUIPMENT THAT COME INTO CONTRACT WITH CONTAMINATED MATERIAL OR ENTER THE SITE SHALL BE INSPECTED, WASHED (IF REQUIRED BY THE CM) PRIOR TO LEAVING THE SITE. DECONTAMINATION, COLLECTION/TREATMENT OF THE DECONTAMINATION FLUIDS, AND WIPE SAMPLING SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 01385 (EQUIPMENT DECONTAMINATION).
10. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN DECONTAMINATION AND MATERIAL STAGING AREAS TO ACCOMMODATE ALL VEHICLES, EQUIPMENT, AND MATERIALS. CONTRACTOR SHALL DETERMINE LOCATIONS OF DECONTAMINATION AND MATERIAL STAGING AREAS BASED ON SITE CONDITIONS, PLANNED ACTIVITIES AND ACCESS. DECONTAMINATION AREAS AND MATERIAL STAGING AREAS SHALL BE LOCATED WITHIN THE CONTRACT WORK AREA AT LOCATIONS APPROVED BY THE CM PRIOR TO DEMOLITION.
11. CONTRACTOR SHALL MAINTAIN A SECURE WORK AREA. CONTRACTOR SHALL MAINTAIN THE EXISTING SITE PERIMETER FENCE AND ONLY REMOVE SECTIONS OF EXISTING FENCE AS NECESSARY TO CONDUCT PROJECT ACTIVITIES. CONTRACTOR SHALL INSTALL AND MAINTAIN PORTABLE FREE-STANDING CHAIN-LINK FENCE IN AREAS THAT REQUIRE REMOVAL OF EXISTING PERIMETER FENCING. SUCH PORTABLE CHAIN-LINK FENCING SHALL NOT REQUIRE GROUND PENETRATIONS (i.e., DRIVEN OR BURIED POSTS), SHALL BE 6-FOOT HIGH CHAIN-LINK WITH SUPPORTS, POSTS, AND BALLASTED BASES AND SHALL BE MAINTAINED THROUGHOUT THE DURATION OF PROJECT ACTIVITIES. PERMANENT PERIMETER FENCING AND GATES REMOVED TO FACILITATE DEMOLITION ACTIVITIES SHALL BE REPLACED AFTER PROJECT ACTIVITIES HAVE BEEN COMPLETED. CONTRACTOR MAY REUSE CLEAN AND UNDAMAGED FENCING PENDING APPROVAL FROM THE CM.
12. CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN VISUAL BARRIERS THROUGHOUT THE PROJECT DURATION. AT A MINIMUM, BARRIERS SHALL BE INSTALLED IN KEY LOCATIONS TO OBSCURE PUBLIC VIEW FROM BROADWAY, THE ADJACENT BUILDINGS TO THE NORTH, AND ANY OTHER LOCATION, AS IDENTIFIED BY CM. BARRIERS MAY BE IN THE FORM OF PHYSICAL SCREENS AND/OR CONSIST OF DEMOLITION SEQUENCING METHODS THAT UTILIZE THE EXISTING BUILDING WALLS TO PROVIDE A VISUAL BARRIER FOR THE MAJORITY OF THE PROJECT DURATION.
13. PERIMETER AIR MONITORING STATIONS WILL BE ESTABLISHED DAILY AND OPERATED BY OWNER. CONTRACTOR SHALL ENSURE THAT AIR MONITORING IS BEING PERFORMED BEFORE INITIATING ANY INTRUSIVE AND/OR POTENTIAL DUST GENERATING ACTIVITIES EACH DAY.
14. CONTRACTOR SHALL USE CLEAN WATER FOR DUST CONTROL AND OTHER REMEDIAL ACTIVITIES. USE OF FIRE HYDRANTS AS A WATER SOURCE WILL REQUIRE COORDINATION WITH THE CM AND/OR THE TOWN OF FORT EDWARD.
15. PRIOR TO MOBILIZATION, THE CONTRACTOR SHALL PROVIDE THE INSTALLATION AND CALIBRATION INFORMATION FOR THE PROPOSED TRUCK SCALE TO THE CM FOR REVIEW AND APPROVAL.
16. IF WASTE MATERIAL IS NOT DIRECT LOADED FOR OFF-SITE TRANSPORT, THE CONTRACTOR SHALL STAGE SUCH MATERIALS IN COMPLIANCE WITH APPLICABLE LAWS AND IN A MANNER THAT MINIMIZES THE POTENTIAL FOR CONTACT OR MIGRATION WHILE STAGED. HAZARDOUS WASTE SHALL BE STORED IN THE HAZARDOUS WASTE STORAGE AREA AND INSPECTED WEEKLY BY CONTRACTOR. AT NO COST TO THE OWNER, THE CM MAY DIRECT THE CONTRACTOR TO INCREASE THE LEVEL OF SITE CONTROLS OR TO EXPEDITE THE TIMING OF OFF-SITE TRANSPORTATION OF WASTE MATERIALS.
17. TEMPORARY STOCKPILES, MATERIAL LOADING, AND TRANSPORTATION SHALL MEET THE REQUIREMENTS SPECIFIED IN SECTION 02006.
18. CONTRACTOR SHALL DOCUMENT IN TABULAR FORM ALL ON- AND OFF-SITE SHIPMENTS OF PROJECT MATERIALS, IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

60' 0 60' 120'
1"=60'

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING. USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

Professional Engineer's Name: WILLIAM A. RANKIN III
Professional Engineer's No.: 073688

State	Date Signed	Project Mgr.
NY	7/18/19	KEG
Designed by	Drawn by	Checked by
KEG	LJP	WAR

STATE OF NEW YORK · WILLIAM ALLEN RANKIN III · 073688 · LICENSED PROFESSIONAL ENGINEER

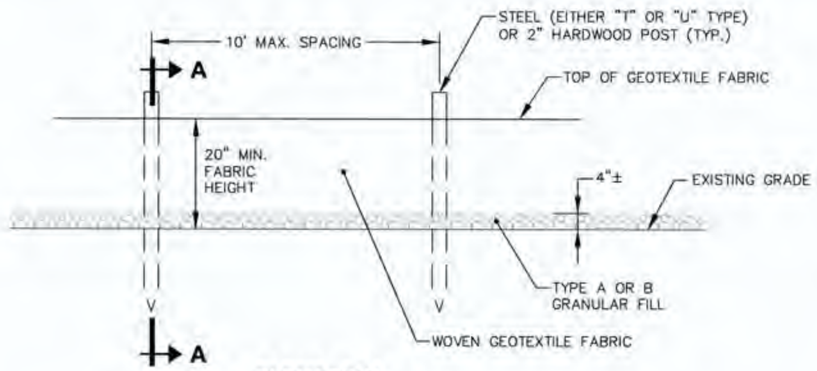
ARCADIS Design & Consultancy for natural and built assets
ARCADIS OF NEW YORK, INC.

GENERAL ELECTRIC COMPANY • FORT EDWARD, NEW YORK
BUILDING DEMOLITION - TECHNICAL DRAWINGS

SITE PREPARATION PLAN

ARCADIS Project No. 30006366 - ARC1327.3001A
Date: JULY 2019
ARCADIS, ONE LINCOLN CENTER, 110 WEST FAYETTE STREET, SYRACUSE, NEW YORK 13202, TEL. 315.446.9120

4



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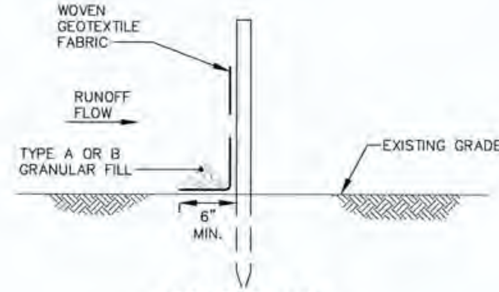


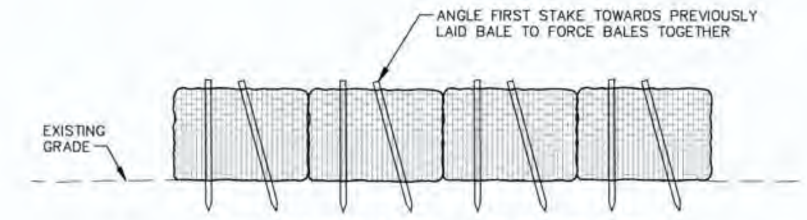
SECTION A-A

NOTES:

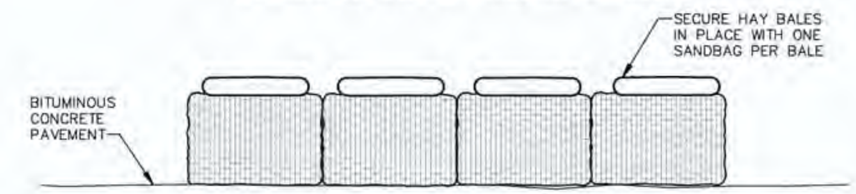
1. BOTTOM PORTION OF GEOTEXTILE SHALL BE LAID FLAT ON THE UP-GRADIENT OR PROJECT SIDE OF THE FENCE AND HELD IN PLACE WITH A CONTINUOUS PILE OF TYPE A OR B GRANULAR FILL.
2. WHEN TWO SECTIONS OF GEOTEXTILE FABRIC ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED A MINIMUM OF 6 INCHES AND FOLDED.
3. ADD HAY BALES ON DOWN-GRADIENT SIDE OF THE FENCE IN AREAS WHERE SILT FENCE ALONE IS NOT SUFFICIENT DUE TO EXCESSIVE RUNOFF.
4. SEDIMENT DEPOSITS SHALL BE REMOVED AS GENERATED OR AS DIRECTED BY CM.
5. SILT FENCE SHALL BE REMOVED AFTER PROJECT ACTIVITIES HAVE BEEN COMPLETED AND WITH APPROVED FROM CM.

SILT FENCE (1)

NOT TO SCALE



HAY BALE INSTALLATION – SOIL/GRAVEL SURFACE



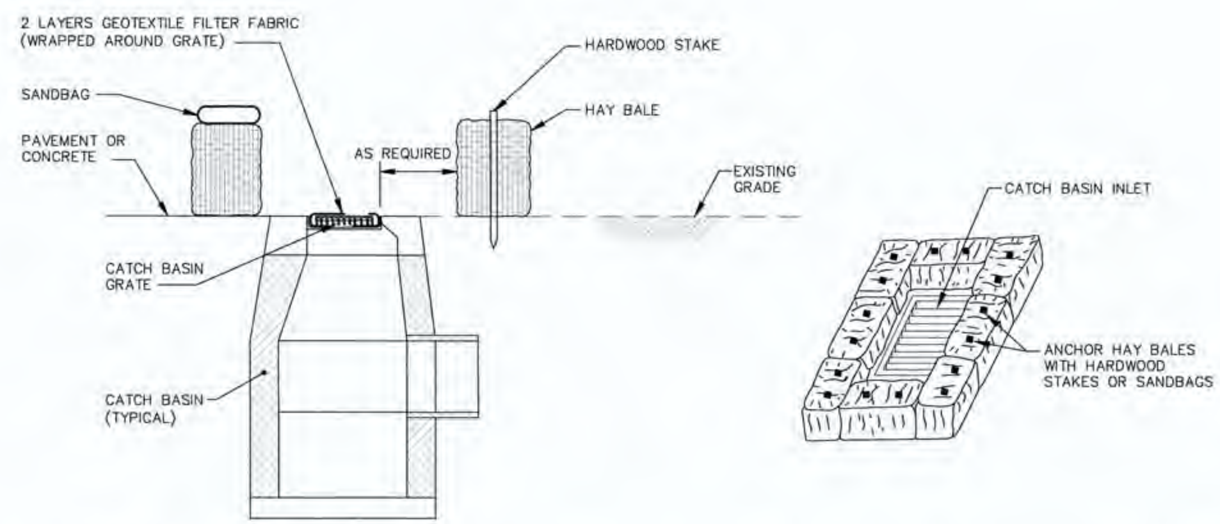
HAY BALE INSTALLATION – PAVED/CONCRETE SURFACE

NOTES:

1. FOR INSTALLATION ON A PAVED/CONCRETE SURFACE PLACE SANDBAGS ON TOP OF HAY BALES TO KEEP THEM IN PLACE.
2. HARDWOOD STAKE SHALL BE DRIVEN A MINIMUM OF 18" INTO THE GROUND AND BE FLUSH WITH THE TOP OF HAY BALE.

HAY BALE BARRIER (2)

NOT TO SCALE



NOTES:

1. EXISTING INLET STRUCTURES SHALL BE INSPECTED PRIOR TO COMMENCEMENT OF WORK AND FOLLOWING COMPLETION OF PROJECT ACTIVITIES TO DOCUMENT OVERALL CONDITION OF THE STRUCTURE AND AMOUNT OF ACCUMULATED MATERIALS IN THE STRUCTURES. ANY INCREASE IN THE MATERIALS ACCUMULATED IN INLET STRUCTURE SHALL REQUIRE CLEANING OF ACCUMULATED MATERIAL FROM THE STRUCTURE.
2. CONDITIONS SHOWN ARE REPRESENTATIVE OF HAY BALE INSTALLATION ON SOIL/GRAVEL AND PAVED/CONCRETE SURFACES. FOR INSTALLATION ON A PAVED/CONCRETE SURFACE, POSITION BALES AROUND CATCH BASIN INLET AND PLACE SAND BAGS TO SECURE BALES.

STORMWATER INLET PROTECTION (3)

NOT TO SCALE

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No.	Date	Revisions	By	Ckd

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Professional Engineer's Name		
WILLIAM A. RANKIN III		
Professional Engineer's No. 073688		
State: NY	Date Signed: 7/18/19	Project Mgr.: KEG
Designed by: KEG	Drawn by: LJP	Checked by: WAR

STATE OF NEW YORK – WILLIAM ALLEN RANKIN III – 073688 – LICENSED PROFESSIONAL ENGINEER

ARCADIS Design & Consultancy for natural and built assets

ARCADIS OF NEW YORK, INC.

NO ALTERATIONS PERMITTED HEREON EXCEPT AS PROVIDED UNDER SECTION 7209 SUBDIVISION 2 OF THE NEW YORK STATE EDUCATION LAW

GENERAL ELECTRIC COMPANY • FORT EDWARD, NEW YORK

BUILDING DEMOLITION - TECHNICAL DRAWINGS

SITE PREPARATION NOTES AND DETAILS

ARCADIS Project No. 30006366 - ARC1327.3001A

Date JULY 2019

ARCADIS
ONE LINCOLN CENTER
110 WEST FAYETTE STREET
SYRACUSE, NEW YORK 13202
TEL. 315.446.9120

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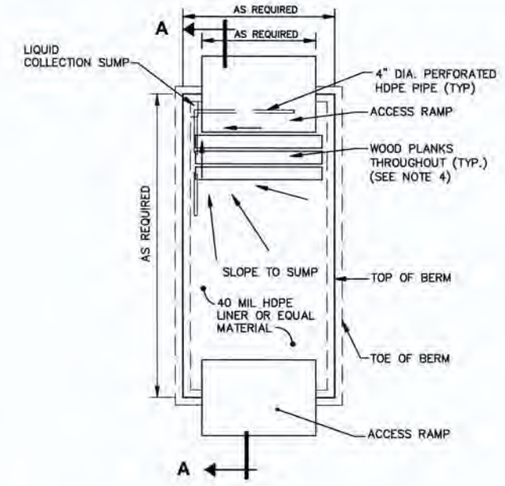

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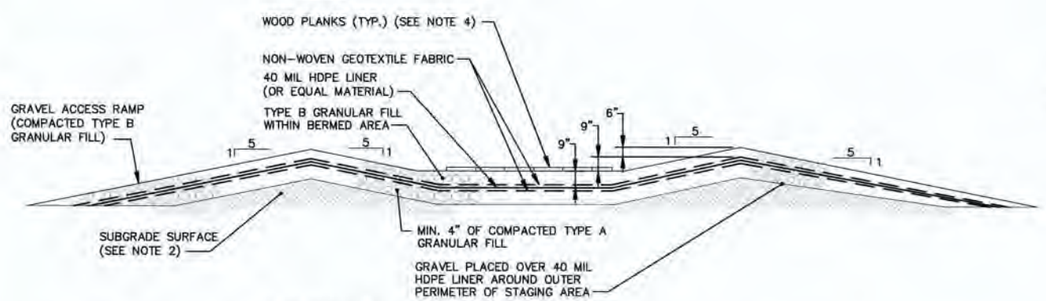


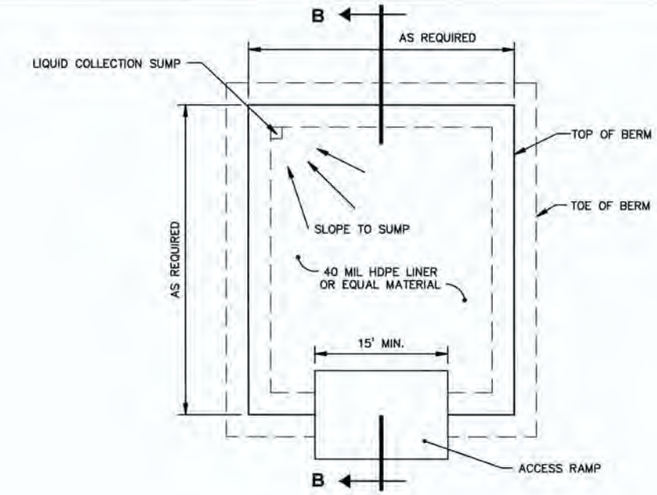
SECTION A

NOTES:

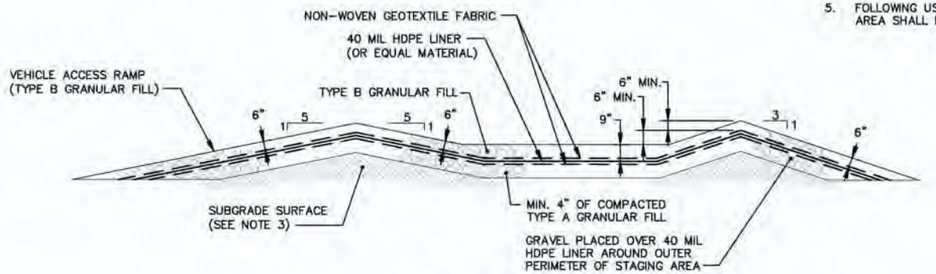
1. CONTRACTOR SHALL DETERMINE LOCATION(S) AND DIMENSIONS OF VEHICLE/EQUIPMENT DECONTAMINATION AREA(S). CONTRACTOR DESIGNATED LOCATION(S) TO BE REVIEWED BY CM PRIOR TO CONSTRUCTION.
2. SUBGRADE SURFACE SHALL BE UNIFORM AND FREE OF MATERIALS THAT COULD DAMAGE THE LINER (e.g., SHARP STONES, WOODY DEBRIS, CONSTRUCTION DEBRIS).
3. DECONTAMINATION AREA TO BE SLOPED TOWARD COLLECTION SUMP TO FACILITATE REMOVAL OF WASH FLUIDS AND TRANSFERRED TO THE WWTP VIA OVERLAND CONVEYANCE PIPING OR VIA AN EXISTING CATCH BASIN. WASH FLUIDS SHALL NOT INCLUDE SURFACTANTS OR DETERGENTS, AND SHALL BE DISPOSED OF IN THE WWTP.
4. WOOD PLANKS TO BE PLACED ABOVE THE GRAVEL DRAINAGE LAYER THROUGHOUT THE WORKING SURFACE OF THE DECONTAMINATION AREA TO PROVIDE A STABLE SURFACE FOR VEHICLES AND EQUIPMENT TO BE DECONTAMINATED.
5. FOLLOWING USE, MATERIALS USED TO CONSTRUCT VEHICLE/DECONTAMINATION AREA(S) SHALL BE DISPOSED AT A TSCA-PERMITTED FACILITY.

EXAMPLE VEHICLE/EQUIPMENT DECONTAMINATION AREA (1)

NOT TO SCALE



PLAN



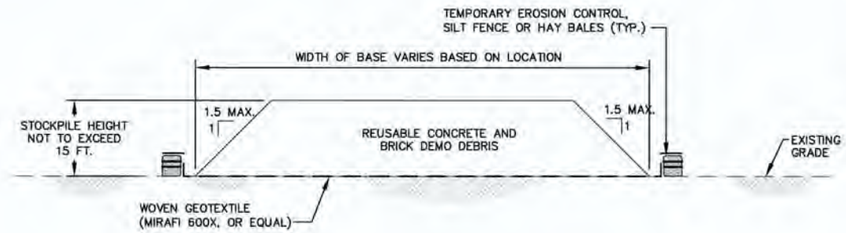
SECTION B-B

NOTES:

1. CONTRACTOR SHALL DETERMINE LOCATION(S) AND DIMENSIONS OF MATERIAL STAGING AREA(S). CONTRACTOR DESIGNATED LOCATION(S) TO BE REVIEWED BY CM PRIOR TO CONSTRUCTION.
2. SUBGRADE SURFACE SHALL BE UNIFORM AND FREE OF DELETERIOUS MATERIALS WHICH COULD DAMAGE THE LINER (e.g., STONES, WOODY DEBRIS, CONSTRUCTION DEBRIS).
3. CONTRACTOR TO DETERMINE LOCATION AND QUANTITY (IF ANY) OF VEHICLE ACCESS RAMP.
4. CONSTRUCTION, SIZE, AND OPERATIONS OF MATERIAL STAGING AREAS SHALL BE COMPATIBLE WITH PLACEMENT OF TARPS OVER STAGED MATERIALS WHEN AREA IS NOT IN ACTIVE USE. IN ADDITION, CONTRACTOR SHALL INSTALL EROSION CONTROLS, ACCESS ROADS, ETC. AS NEEDED OR DIRECTED BY CM.
5. FOLLOWING USE, MATERIALS USED TO CONSTRUCT MATERIAL STAGING AREA SHALL BE DISPOSED AT A TSCA-PERMITTED FACILITY.

EXAMPLE MATERIAL STAGING AREA (2)

NOT TO SCALE



NOTE:

1. LENGTH OF TEMPORARY STOCKPILE SHALL BE DETERMINED BASED ON LOCATION.

POTENTIAL TEMPORARY STOCKPILE AREA (3)

NOT TO SCALE

SCALE(S) AS INDICATED

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No.	Date	Revisions	By	Ckd

Professional Engineer's Name: WILLIAM A. RANKIN III
Professional Engineer's No.: 073688

State	Date Signed	Project Mgr.
NY	7/18/19	KEG
Designed by	Drawn by	Checked by
KEG	LJP	WAR

ARCADIS Design & Consultancy for natural and built assets
ARCADIS OF NEW YORK, INC.

GENERAL ELECTRIC COMPANY • FORT EDWARD, NEW YORK
BUILDING DEMOLITION - TECHNICAL DRAWINGS

MISCELLANEOUS SITE PREPARATION DETAILS

ARCADIS Project No.: 30006366 - ARC1327.3001A
Date: JULY 2019

ARCADIS
ONE LINCOLN CENTER
110 WEST FAYETTE STREET
SYRACUSE, NEW YORK 13202
TEL. 315.446.9120

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CITY: SYRACUSE, NY DIV/GROUP: EBC/IMDV DB: L.POSENAUER PM: W.RANKIN TM: K.GAJEWSKI LYR:ON=*;OFF=*REF*
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LEGEND:

- EXISTING BUILDING
- EXISTING INTERIOR WALLS
- INTERIOR BUILDING LINE
- INTERIOR MATERIALS – NON-TSCA FOR DISPOSAL WITH THE EXCEPTION OF PAINTED AND UNPAINTED STRUCTURAL STEEL, WHICH WILL BE TSCA REGULATED FOR DISPOSAL.
- TSCA/ACM REMOVAL AREA – ALL MATERIALS OF CONSTRUCTION. INTERIOR EQUIPMENT, NON-STRUCTURAL MATERIALS, AND DEBRIS SHALL BE REMOVED AS TSCA WASTE OR RELOCATED TO BUILDING 25 PRIOR TO INITIATING BUILDING DEMOLITION.
- TSCA REMOVAL AREA – ALL MATERIALS OF CONSTRUCTION.
- ACM REMOVAL AREA – ALL MATERIALS OF CONSTRUCTION. INTERIOR EQUIPMENT, NON-STRUCTURAL MATERIALS, AND DEBRIS SHALL BE REMOVED AS NON-TSCA WASTE OR RELOCATED TO BUILDING 26 PRIOR TO INITIATING BUILDING DEMOLITION. PAINTED STEEL SHALL BE TSCA-REGULATED FOR DISPOSAL.
- TSCA MASONRY WALL REMOVAL AREA
- CONTRACTOR SHALL COVER CONCRETE SLAB IN THESE AREAS PRIOR TO INITIATING BUILDING DEMOLITION, IN A MANNER APPROVED BY CM, TO ENSURE ABOVE-GRADE, NON-TSCA DEBRIS DOES NOT CONTACT THE CONCRETE SLAB.
- TSCA/ACM WOOD BLOCK FLOOR REMOVAL AREA
- POTENTIAL TSCA PAINT REMOVAL AREA
- AREAS POTENTIALLY SUBJECT TO MASONRY MATERIAL RE-USE

NOTES:

1. ON-SITE MANAGEMENT OF PROJECT MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 02006 (STAGING, LOADING, AND DISPOSITION OF PROJECT MATERIALS) AND OTHER RELEVANT CONTRACT DOCUMENTS.
2. AS GENERATED, CONTRACTOR SHALL SEGREGATE PROJECT MATERIALS INTO SIMILAR TYPES FOR HANDLING, MANAGEMENT, AND DISPOSITION. CONTRACTOR SHALL DELINEATE THE LOCATION OF EACH PROJECT MATERIAL AND RECEIVE THE CM'S APPROVAL OF THAT DELINEATION BEFORE PROCEEDING WITH RELATED DEMOLITION ACTIVITIES.
3. CONTRACTOR MAY ELECT TO CLEAN AND WIPE SAMPLE UNPAINTED OR PRIMER-COATED STRUCTURAL STEEL THAT WOULD OTHERWISE BE TSCA-REGULATED FOR DISPOSAL, FOR POTENTIAL SALVAGE PENDING CM APPROVAL OF FAVORABLE POST-CLEANED WIPE SAMPLE RESULTS (COLLECTED BY CONTRACTOR).
4. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OWNER WILL BE RESPONSIBLE FOR THE SHIPPING AND ANALYSIS OF ADDITIONAL WASTE CHARACTERIZATION SAMPLES, IF NECESSARY, TO FACILITATE WASTE PROFILING. FOR PLANNING PURPOSES, CONTRACTOR SHALL ALLOW FOR A TWO-WEEK TIMEFRAME FOR SAMPLE COLLECTION AND RECEIPT OF ANALYTICAL RESULTS. CONTRACTOR IS RESPONSIBLE FOR SAMPLING AND ANALYSIS ASSOCIATED WITH POST-DECONTAMINATION OR POST CLEANING (FOR SALVAGE).
5. FOR PURPOSES OF THIS PROJECT, TSCA-REGULATED MATERIALS ARE PROJECT MATERIALS THAT EXCEED 35 mg/kg OR 10 ug/100cm² FOR PCBs AND SHALL BE MANAGED UNDER THE TOXIC SUBSTANCES CONTROL ACT (TSCA; 40 CFR 761) AND NEW YORK STATE HAZARDOUS WASTE REGULATIONS.
6. RCRA-REGULATED MATERIALS ARE PROJECT MATERIALS THAT EXCEED THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA; 40 CFR 268) LIMITS FOR CERTAIN CONSTITUENTS AND SHALL BE MANAGED UNDER RCRA.
7. THE CONTRACTOR SHALL REMOVE AND CONTAINERIZE FOR SUBSEQUENT OFF-SITE DISPOSAL HAZARDOUS SUBSTANCES PRESENT WITHIN THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO UNIVERSAL WASTES, REGULATED WASTES, LIQUID WASTES, AND ACMs.
8. THE CONTRACTOR SHALL REMOVE AND CONTAINERIZE LOOSELY ADHERED PAINT FROM INTERIOR AND EXTERIOR SURFACES IN BUILDINGS AND STRUCTURES SUBJECT TO DEMOLITION. THE CONTRACTOR SHALL ALSO REMOVE DIRT, DEBRIS, GRIT, PAINT, LOOSE FLOOR OVERLAY, ETC. THAT IS PRESENT ON FLOORS PRIOR TO DEMOLITION.
9. BRIGHT YELLOW COLORED PAINT THROUGHOUT THE MAIN MANUFACTURING BUILDING AND WHITE CEILING PAINT IN THE FABRICATION AND PCO COVER ASSEMBLY AREAS SHALL BE SEGREGATED FOR OFF-SITE DISPOSAL AS RCRA HAZARDOUS AND TSCA-REGULATED WASTE. OTHER REMOVED PAINT MATERIAL SHALL BE SEGREGATED FOR OFF-SITE DISPOSAL AS TSCA-REGULATED WASTE, PENDING ADDITIONAL ANALYTICAL TO BE PERFORMED BY CONTRACTOR (IF ANY).
10. THE CONTRACTOR SHALL REMOVE OR RELOCATE ITEMS WITHIN BUILDINGS 23, 29 AND 31 THAT ARE NOT INTEGRAL TO THE BUILDING INFRASTRUCTURE, SUCH AS PIPING, EQUIPMENT, PARTITION WALLS, TANKS, DEBRIS, AND REFUSE, PRIOR TO INITIATING BUILDING DEMOLITION.
11. LARGE UNPAINTED OR PRIMER-COATED TANKS LOCATED WITHIN THE TANK FARM REQUIRE CLEANING BY CONTRACTOR AND WIPE SAMPLING BY CONTRACTOR TO CONFIRM MATERIAL CAN BE TRANSPORTED OFF-SITE FOR RECYCLE.
12. IN LIEU OF MANAGING ALL PAINTED STRUCTURAL STEEL AND EQUIPMENT IN THE MAIN MANUFACTURING BUILDING AS TSCA-REGULATED, THE CONTRACTOR MAY PROPOSE AN ALTERNATE APPROACH TO DECONTAMINATE CERTAIN METAL SURFACES IN COMPLIANCE WITH 40 CFR 761.79 BY REMOVING THE PAINT TO A VISUAL STANDARD NO. 3, COMMERCIAL BLAST CLEANED SURFACE FINISH, OF THE NATIONAL ASSOCIATION OF CORROSION ENGINEERS (NACE). FOLLOWING PAINT REMOVAL AND VISUAL INSPECTION FOR COMPLIANCE WITH STANDARD NO. 3, METAL CAN BE SALVAGED. MATERIALS COLLECTED FROM THE PAINT REMOVAL EFFORTS (e.g., PAINT, BLAST MEDIA, PPE, CRITICAL BARRIERS) SHALL BE CONTAINERIZED FOR OFF-SITE DISPOSAL AS TSCA-REGULATED WASTE.

30' 0 30' 60'
1"=30'

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

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Professional Engineer's No.		
073688		
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Designed by	Drawn by	Checked by
KEG	LJP	WAR

STATE OF NEW YORK WILLIAM ALLEN RANKIN III 073688 LICENSED PROFESSIONAL ENGINEER

ARCADIS Design & Consultancy for natural and built assets
ARCADIS OF NEW YORK, INC.

GENERAL ELECTRIC COMPANY • FORT EDWARD, NEW YORK
BUILDING DEMOLITION - TECHNICAL DRAWINGS

MANAGEMENT OF BUILDING DEBRIS (EXCLUDING ROOFS) - 1ST FLOOR MAIN MANUFACTURING BUILDING

ARCADIS Project No.	30006386 - ARC1327.3001A
Date	JULY 2019

ARCADIS
ONE LINCOLN CENTER
110 WEST FAYETTE STREET
SYRACUSE, NEW YORK 13202
TEL. 315.446.9120

LEGEND:

- EXISTING BUILDING
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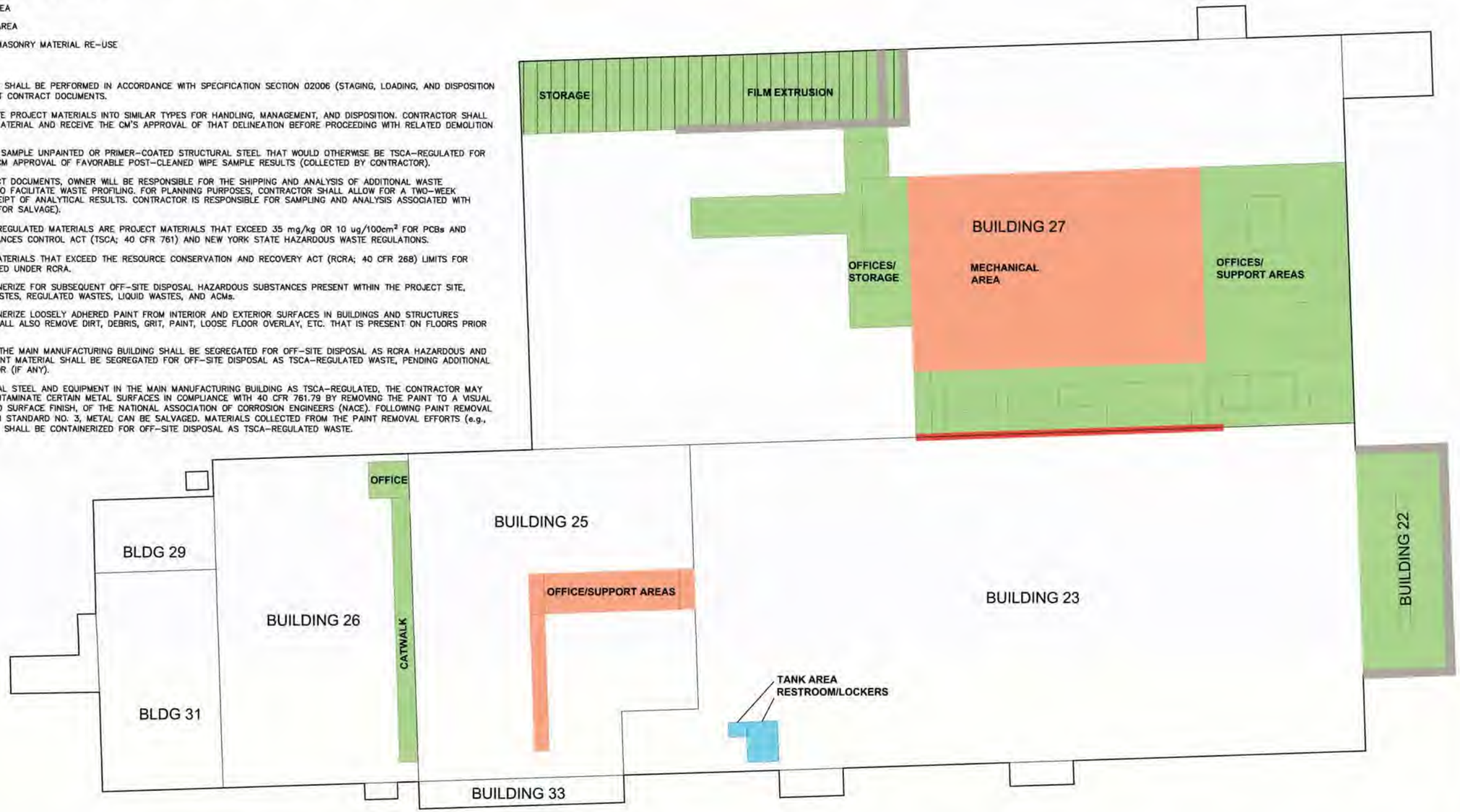

CITY: SYRACUSE, NY DIV/GROUP: EBC/IM/DV DB: L.POSENAUER PM: W.RANKIN TM: K.GAJEWSKI LYR:ON=*;OFF=*REF*
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XREFS:
IMAGES:
C-FTED_DEMOTD_BASE
C-FTED_DEMOTD_BDR-C-LD

30' 0 30' 60'
1"=30'

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING. USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd.

Professional Engineer's Name: WILLIAM A. RANKIN III
Professional Engineer's No.: 073688

State	Date Signed	Project Mgr.
NY	7/18/19	KEG
Designed by: KEG	Drawn by: LJP	Checked by: WAR

STATE OF NEW YORK · WILLIAM ALLEN RANKIN III · 073688 · LICENSED PROFESSIONAL ENGINEER

ARCADIS Design & Consultancy for natural and built assets
ARCADIS OF NEW YORK, INC.

GENERAL ELECTRIC COMPANY • FORT EDWARD, NEW YORK
BUILDING DEMOLITION - TECHNICAL DRAWINGS

MANAGEMENT OF BUILDING DEBRIS (EXCLUDING ROOFS) - 2ND FLOOR MAIN MANUFACTURING BUILDING

ARCADIS Project No.: 30006366 - ARC1327.3001A
Date: JULY 2019

ARCADIS
ONE LINCOLN CENTER
110 WEST FAYETTE STREET
SYRACUSE, NEW YORK 13202
TEL. 315.446.9120

8

LEGEND:

- EXISTING BUILDING
- EXISTING INTERIOR WALLS
- INTERIOR BUILDING LINE
- INTERIOR MATERIALS – NON–TSCA FOR DISPOSAL WITH THE EXCEPTION OF PAINTED AND UNPAINTED STRUCTURAL STEEL, WHICH WILL BE TSCA–REGULATED FOR DISPOSAL
- POTENTIAL TSCA PAINT REMOVAL AREA
- AREAS POTENTIALLY SUBJECT TO MASONRY MATERIAL RE–USE

NOTES:

1. ON–SITE MANAGEMENT OF PROJECT MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 02006 (STAGING, LOADING, AND DISPOSITION OF PROJECT MATERIALS) AND OTHER RELEVANT CONTRACT DOCUMENTS.
2. AS GENERATED, CONTRACTOR SHALL SEGREGATE PROJECT MATERIALS INTO SIMILAR TYPES FOR HANDLING, MANAGEMENT, AND DISPOSITION. CONTRACTOR SHALL DELINEATE THE LOCATION OF EACH PROJECT MATERIAL AND RECEIVE THE CM'S APPROVAL OF THAT DELINEATION BEFORE PROCEEDING WITH RELATED DEMOLITION ACTIVITIES.
3. CONTRACTOR MAY ELECT TO CLEAN AND WIPE SAMPLE UNPAINTED OR PRIMER–COATED STRUCTURAL STEEL THAT WOULD OTHERWISE BE TSCA–REGULATED FOR DISPOSAL, FOR POTENTIAL SALVAGE PENDING CM APPROVAL OF FAVORABLE POST–CLEANED WIPE SAMPLE RESULTS (COLLECTED BY CONTRACTOR).
4. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OWNER WILL BE RESPONSIBLE FOR THE SHIPPING AND ANALYSIS OF ADDITIONAL WASTE CHARACTERIZATION SAMPLES, IF NECESSARY, TO FACILITATE WASTE PROFILING. FOR PLANNING PURPOSES, CONTRACTOR SHALL ALLOW FOR A TWO–WEEK TIMEFRAME FOR SAMPLE COLLECTION AND RECEIPT OF ANALYTICAL RESULTS. CONTRACTOR IS RESPONSIBLE FOR SAMPLING AND ANALYSIS ASSOCIATED WITH POST–DECONTAMINATION OR POST CLEANING (FOR SALVAGE).
5. FOR THE PURPOSES OF THIS PROJECT, TSCA–REGULATED MATERIALS ARE PROJECT MATERIALS THAT EXCEED 35 mg/kg OR 10 ug/100cm^2 FOR PCBs AND SHALL BE MANAGED UNDER THE TOXIC SUBSTANCES CONTROL ACT (TSCA; 40 CFR 761) AND NEW YORK STATE HAZARDOUS WASTE REGULATIONS.
6. RCRA–REGULATED MATERIALS ARE PROJECT MATERIALS THAT EXCEED THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA; 40 CFR 268) LIMITS FOR CERTAIN CONSTITUENTS AND SHALL BE MANAGED UNDER RCRA.
7. THE CONTRACTOR SHALL REMOVE AND CONTAINERIZE FOR SUBSEQUENT OFF–SITE DISPOSAL HAZARDOUS SUBSTANCES PRESENT WITHIN THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO UNIVERSAL WASTES, REGULATED WASTES, LIQUID WASTES, AND ACMs.
8. THE CONTRACTOR SHALL REMOVE AND CONTAINERIZE LOOSELY ADHERED PAINT FROM INTERIOR AND EXTERIOR SURFACES IN BUILDINGS AND STRUCTURES SUBJECT TO DEMOLITION. THE CONTRACTOR SHALL ALSO REMOVE DIRT, DEBRIS, GRIT, PAINT, LOOSE FLOOR OVERLAY, ETC. THAT IS PRESENT ON FLOORS PRIOR TO DEMOLITION.
9. BRIGHT YELLOW COLORED PAINT THROUGHOUT THE MAIN MANUFACTURING BUILDING SHALL BE SEGREGATED FOR OFF–SITE DISPOSAL AS RCRA HAZARDOUS AND TSCA–REGULATED WASTE. ALL OTHER REMOVED PAINT MATERIAL SHALL BE SEGREGATED FOR OFF–SITE DISPOSAL AS TSCA–REGULATED WASTE, PENDING ADDITIONAL ANALYTICAL TO BE PERFORMED BY CONTRACTOR (IF ANY).
10. IN LIEU OF MANAGING ALL PAINTED STRUCTURAL STEEL AND EQUIPMENT IN THE MAIN MANUFACTURING BUILDING AS TSCA–REGULATED, THE CONTRACTOR MAY PROPOSE AN ALTERNATE APPROACH TO DECONTAMINATE CERTAIN METAL SURFACES IN COMPLIANCE WITH 40 CFR 761.79 BY REMOVING THE PAINT TO A VISUAL STANDARD NO. 3, COMMERCIAL BLAST CLEANED SURFACE FINISH, OF THE NATIONAL ASSOCIATION OF CORROSION ENGINEERS (NACE). FOLLOWING PAINT REMOVAL AND VISUAL INSPECTION FOR COMPLIANCE WITH STANDARD NO. 3, METAL CAN BE SALVAGED. MATERIALS COLLECTED FROM THE PAINT REMOVAL EFFORTS (e.g., PAINT, BLAST MEDIA, PPE, CRITICAL BARRIERS) SHALL BE CONTAINERIZED FOR OFF–SITE DISPOSAL AS TSCA–REGULATED WASTE.

XREFS: C-FTED_DEMOTD_BASE C-FTED_DEMOTD_BDR-C-LD IMAGES:

1"=30' (scale bar: 30' 0 30' 60')

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No.	Date	Revisions	By	Ckd

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Professional Engineer's Name		
WILLIAM A. RANKIN III		
Professional Engineer's No. 073688		
State: NY	Date Signed: 7/18/19	Project Mgr: KEG
Designed by: KEG	Drawn by: LJP	Checked by: WAR

STATE OF NEW YORK · WILLIAM ALLEN RANKIN III · 073688 · LICENSED PROFESSIONAL ENGINEER

ARCADIS Design & Consultancy for natural and built assets

ARCADIS OF NEW YORK, INC.

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GENERAL ELECTRIC COMPANY • FORT EDWARD, NEW YORK
BUILDING DEMOLITION - TECHNICAL DRAWINGS

MANAGEMENT OF BUILDING DEBRIS (EXCLUDING ROOFS) - 3RD FLOOR MAIN MANUFACTURING BUILDING

ARCADIS Project No. 30006366 - ARC1327.3001A

Date JULY 2019

ARCADIS
ONE LINCOLN CENTER
110 WEST FAYETTE STREET
SYRACUSE, NEW YORK 13202
TEL. 315.446.9120

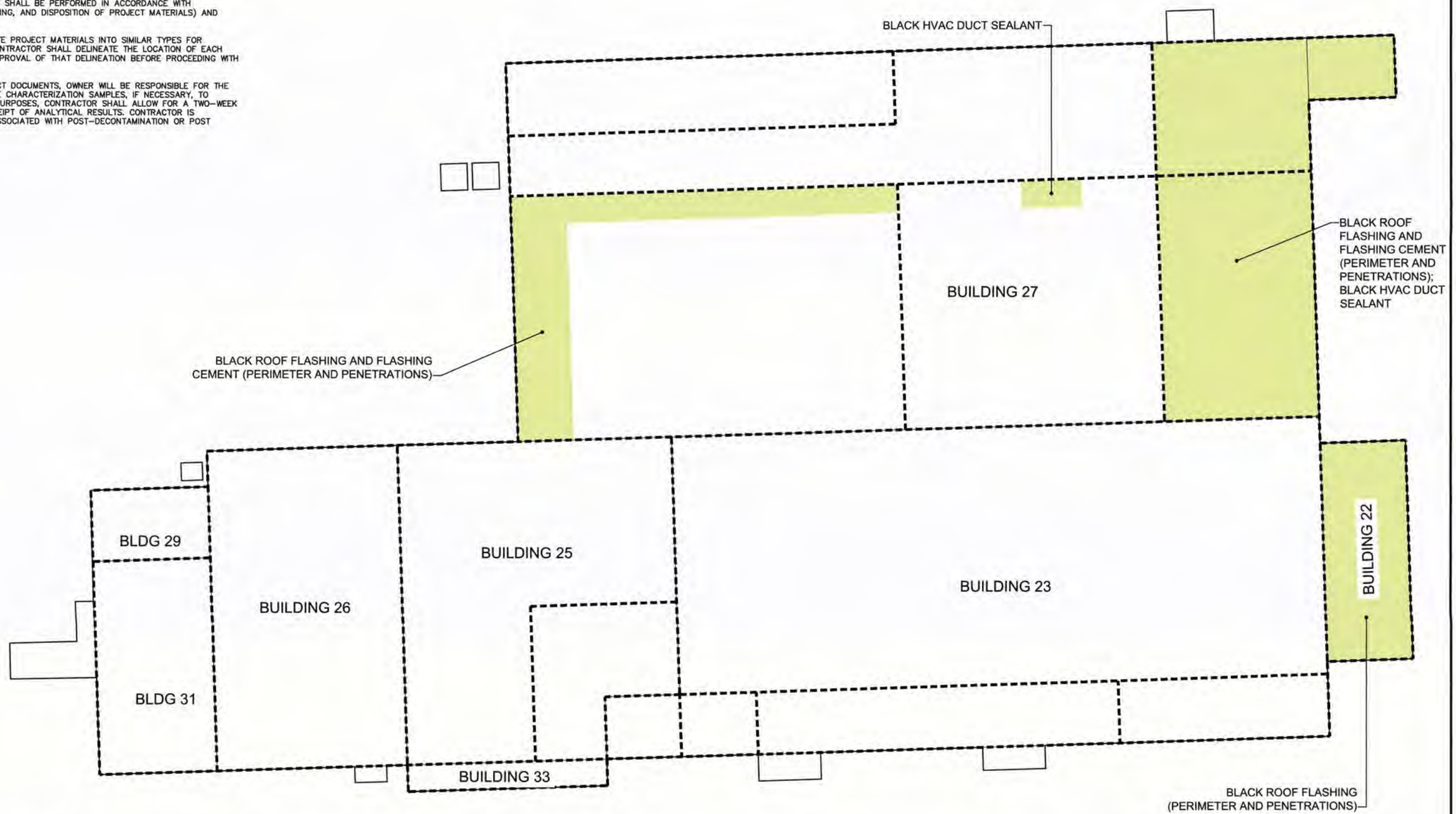
9

LEGEND:

- EXISTING BUILDING
- APPROXIMATE ROOF LINE
- APPROXIMATE ROOF AREA CONTAINING ASBESTOS THAT SHALL BE ABATED PRIOR TO DEMOLITION

NOTES:

1. ON-SITE MANAGEMENT OF PROJECT MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 02006 (STAGING, LOADING, AND DISPOSITION OF PROJECT MATERIALS) AND OTHER RELEVANT CONTRACT DOCUMENTS.
2. AS GENERATED, CONTRACTOR SHALL SEGREGATE PROJECT MATERIALS INTO SIMILAR TYPES FOR HANDLING, MANAGEMENT, AND DISPOSITION. CONTRACTOR SHALL DELINEATE THE LOCATION OF EACH PROJECT MATERIAL AND RECEIVE THE CM'S APPROVAL OF THAT DELINEATION BEFORE PROCEEDING WITH RELATED DEMOLITION ACTIVITIES.
3. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OWNER WILL BE RESPONSIBLE FOR THE SHIPPING AND ANALYSIS OF ADDITIONAL WASTE CHARACTERIZATION SAMPLES, IF NECESSARY, TO FACILITATE WASTE PROFILING. FOR PLANNING PURPOSES, CONTRACTOR SHALL ALLOW FOR A TWO-WEEK TIMEFRAME FOR SAMPLE COLLECTION AND RECEIPT OF ANALYTICAL RESULTS. CONTRACTOR IS RESPONSIBLE FOR SAMPLING AND ANALYSIS ASSOCIATED WITH POST-DECONTAMINATION OR POST CLEANING (FOR SALVAGE).



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Professional Engineer's Name: **WILLIAM A. RANKIN III**
Professional Engineer's No.: 073688

State	Date Signed	Project Mgr.
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Designed by	Drawn by	Checked by
KEG	LJP	WAR

STATE OF NEW YORK · WILLIAM ALLEN RANKIN · 073688 · LICENSED PROFESSIONAL ENGINEER

ARCADIS Design & Consultancy for natural and built assets
ARCADIS OF NEW YORK, INC.

GENERAL ELECTRIC COMPANY • FORT EDWARD, NEW YORK
BUILDING DEMOLITION - TECHNICAL DRAWINGS

MANAGEMENT OF ASBESTOS - MAIN MANUFACTURING BUILDING ROOF

ARCADIS Project No.: 30006386 - ARC1327.3001A
Date: JULY 2019

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ONE LINCOLN CENTER
110 WEST FAYETTE STREET
SYRACUSE, NEW YORK 13202
TEL. 315.446.9120

10

LEGEND:

- EXISTING BUILDING
- APPROXIMATE ROOF LINE
- TSCA/RCRA ROOF – ROOF TO BE REMOVED IN A MANNER SO AS TO NOT CO-MINGLE WITH THE BUILDING MATERIALS BELOW
- TSCA/ACM ROOF TO BE MANAGED UNDER THE APPROVED ASBESTOS VARIANCE
- RCRA NON-TSCA ROOF – ROOF TO BE REMOVED IN A MANNER SO AS TO NOT CO-MINGLE WITH THE BUILDING MATERIALS BELOW
- NON-TSCA / ACM ROOFING MATERIAL
- NON-TSCA / NON-RCRA / NON-ACM ROOFING MATERIAL

NOTES:

1. ON-SITE MANAGEMENT OF PROJECT MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 02006 (STAGING, LOADING, AND DISPOSITION OF PROJECT MATERIALS) AND OTHER RELEVANT CONTRACT DOCUMENTS.
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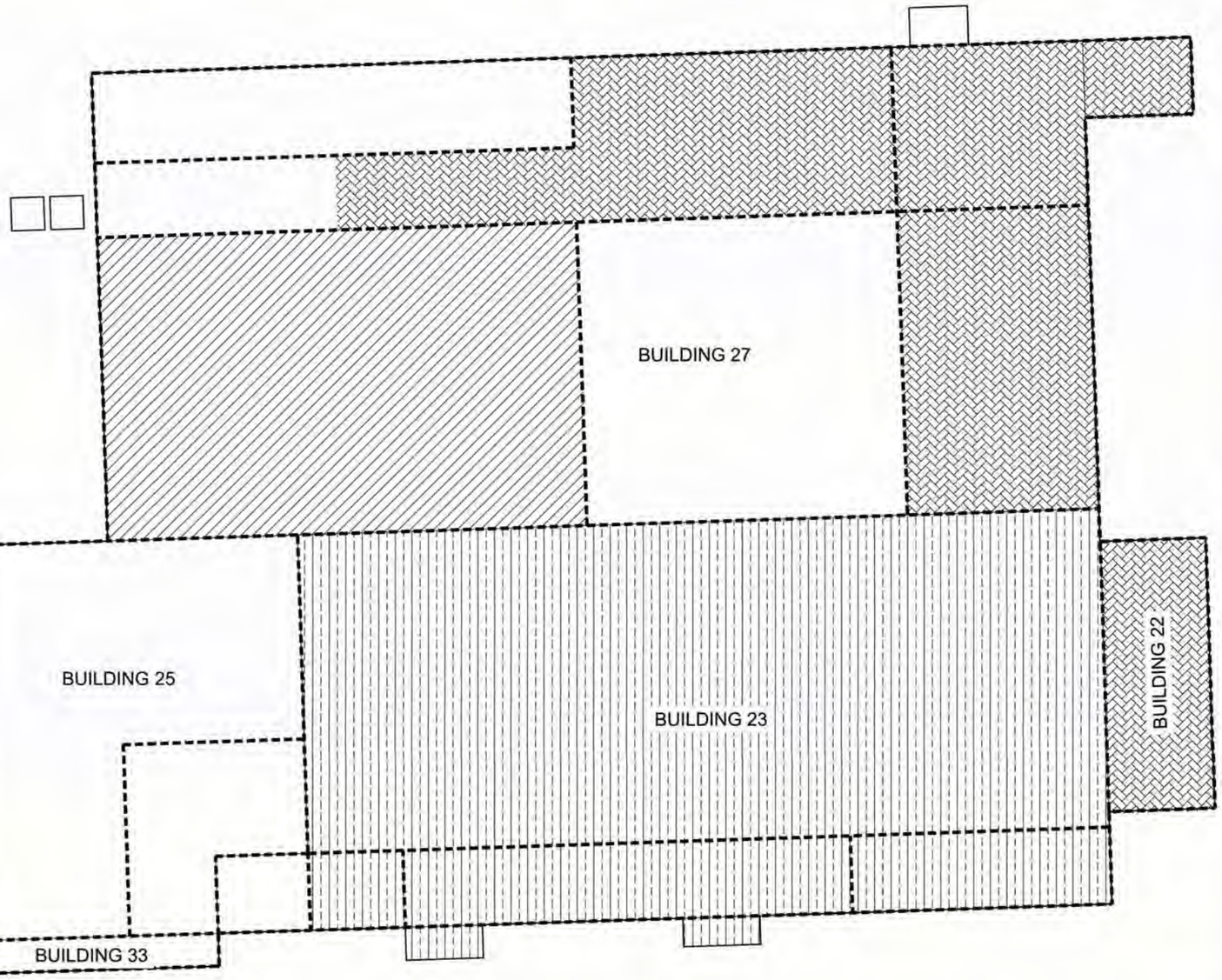
3. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OWNER WILL BE RESPONSIBLE FOR THE SHIPPING AND ANALYSIS OF ADDITIONAL WASTE CHARACTERIZATION SAMPLES, IF NECESSARY, TO FACILITATE WASTE PROFILING. FOR PLANNING PURPOSES, CONTRACTOR SHALL ALLOW FOR A TWO-WEEK TIMEFRAME FOR SAMPLE COLLECTION AND RECEIPT OF ANALYTICAL RESULTS. CONTRACTOR IS RESPONSIBLE FOR SAMPLING AND ANALYSIS ASSOCIATED WITH POST-DECONTAMINATION OR POST CLEANING (FOR SALVAGE).
4. FOR THE PURPOSES OF THIS PROJECT, TSCA-REGULATED MATERIALS ARE PROJECT MATERIALS THAT EXCEED 35 mg/kg OR 10 ug/100cm^2 FOR PCBs AND SHALL BE MANAGED UNDER THE TOXIC SUBSTANCES CONTROL ACT (TSCA; 40 CFR 761) AND NEW YORK STATE HAZARDOUS WASTE REGULATIONS.
5. RCRA-REGULATED MATERIALS ARE PROJECT MATERIALS THAT EXCEED THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA; 40 CFR 268) LIMITS FOR CERTAIN CONSTITUENTS AND SHALL BE MANAGED UNDER RCRA.
6. THE PORTION OF ROOF SUBJECT TO RCRA REMOVAL SHALL BE REMOVED IN A MANNER SUCH THAT THE SUBJECT RCRA ROOF MATERIALS DO NOT COME INTO CONTRACT WITH, OR BECOME CO-MINGLED WITH, THE BELOW MATERIALS.



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Professional Engineer's Name: **WILLIAM A. RANKIN III**
Professional Engineer's No.: 073688

State	Date Signed	Project Mgr.
NY	7/18/19	KEG
Designed by: KEG	Drawn by: LJP	Checked by: WAR

STATE OF NEW YORK · WILLIAM ALLEN RANKIN III · 073688 · LICENSED PROFESSIONAL ENGINEER

ARCADIS Design & Consultancy for natural and built assets
ARCADIS OF NEW YORK, INC.

GENERAL ELECTRIC COMPANY • FORT EDWARD, NEW YORK
BUILDING DEMOLITION - TECHNICAL DRAWINGS

MANAGEMENT OF BUILDING DEBRIS - MAIN MANUFACTURING BUILDING ROOF

ARCADIS Project No.: 30006366 - ARC1327.3001A
Date: JULY 2019

ARCADIS
ONE LINCOLN CENTER
110 WEST FAYETTE STREET
SYRACUSE, NEW YORK 13202
TEL. 315.446.9120

11

PAVED

PAVED

PAVED

PAVED

LOWER ALLEN STREET

ELECTRICAL HIGH YARD

ABOVE GROUND TANK

N. SANITARY LIFT STATION

BUILDING 40

SMALL IND AC LIFE TEST
DC TEST
AC/DC TEST
UNTRAVAR
ELECTRICAL LIFE TEST
ELECTRICAL LIFE TEST
DOCK
POWER AC LIFE TEST
ELECTRICAL LIFE TEST
ELECTRICAL LIFE TEST
TRANSMISSION LINES
TRACKING WHEEL
CONTROL ROOM
LABORATORY
FOIL FINISHING
SHIELDED TEST CELL
OFFICE
CAFETERIA
RACK STORAGE
TWO LARGE TRANSFORMERS REQUIRE CLEANING AND SAMPLING PRIOR TO SALVAGE
RACK WELDING
MAINT. SHOP
STORAGE
BARREL STORAGE
OFFICE
OFFICE
RACK ASSEMBLY

LEGEND:

- BUILDING
- EXISTING INTERIOR WALLS
- PROPERTY LINE (APPROXIMATE)
- GRASS
- FENCE
- RAILROAD
- MASONRY WALL TO BE MANAGED AS ACM
- INTERIOR MATERIALS – NON-TSCA FOR DISPOSAL WITH THE EXCEPTION OF PAINTED AND UNPAINTED STRUCTURAL STEEL, WHICH WILL BE TSCA REGULATED FOR DISPOSAL.
- INTERIOR MATERIALS – NON-TSCA FOR DISPOSAL

NOTES:

1. ON-SITE MANAGEMENT OF PROJECT MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 02006 (STAGING, LOADING, AND DISPOSITION OF PROJECT MATERIALS) AND OTHER RELEVANT CONTRACT DOCUMENTS.
2. AS GENERATED, CONTRACTOR SHALL SEGREGATE PROJECT MATERIALS INTO SIMILAR TYPES FOR HANDLING, MANAGEMENT, AND DISPOSITION. CONTRACTOR SHALL DELINEATE THE LOCATION OF EACH PROJECT MATERIAL AND RECEIVE THE CM'S APPROVAL OF THAT DELINEATION BEFORE PROCEEDING WITH RELATED DEMOLITION ACTIVITIES.
3. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OWNER WILL BE RESPONSIBLE FOR THE SHIPPING AND ANALYSIS OF ADDITIONAL WASTE CHARACTERIZATION SAMPLES, IF NECESSARY, TO FACILITATE WASTE PROFILING. FOR PLANNING PURPOSES, CONTRACTOR SHALL ALLOW FOR A TWO-WEEK TIMEFRAME FOR SAMPLE COLLECTION AND RECEIPT OF ANALYTICAL RESULTS. CONTRACTOR IS RESPONSIBLE FOR SAMPLING AND ANALYSIS ASSOCIATED WITH POST-DECONTAMINATION OR POST CLEANING (FOR SALVAGE).
4. "RCRA-REGULATED MATERIALS ARE PROJECT MATERIALS THAT EXCEED THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA: 40 CFR 268) LIMITS FOR CERTAIN CONSTITUENTS AND SHALL BE MANAGED UNDER RCRA."
5. BUILDING MATERIALS IN BUILDING 40 (WITH THE EXCEPTION OF THE MASONRY WALL IN THE ELECTRICAL LIFE TEST AREA AND REMOVED PAINT MATERIAL IDENTIFIED FOR RCRA DISPOSAL), INCLUDING PAINTED STEEL, SHALL BE MANAGED AS NON-TSCA MATERIAL. CONTRACTOR SHALL ASSUME PAINTED STEEL CAN BE SALVAGED; HOWEVER, THIS MATERIAL IS SUBJECT TO CONFIRMATION WIPE SAMPLING BY CONTRACTOR AND APPROVAL BY CM PRIOR TO RELEASE FOR SALVAGE
6. MASONRY MATERIAL FROM BUILDING 40 SHALL BE CRUSHED TO A MAXIMUM DIMENSION OF SIX INCHES AND RE-USED ON-SITE.
7. THE CONTRACTOR SHALL REMOVE AND CONTAINERIZE FOR SUBSEQUENT OFF-SITE DISPOSAL HAZARDOUS SUBSTANCES PRESENT WITHIN THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO UNIVERSAL WASTES, REGULATED WASTES, LIQUID WASTES, AND ACMs (INCLUDING; WITHOUT LIMITATION INTERNAL ELECTRICAL COMPONENTS [e.g., SAFETY SWITCHES, MANUAL SHUT OFFS, BREAKER PANELS, SUB STATIONS, ELECTRICAL BOXES, WIRE] AND PIPE FLANGE GASKETS THROUGHOUT BUILDING 40. THESE MATERIALS ARE ASSUMED ACM UNTIL LABORATORY ANALYSIS CAN CONFIRM OR DENY THE PRESENCE OF ASBESTOS).
8. THE CONTRACTOR SHALL REMOVE AND CONTAINERIZE LOOSELY ADHERED PAINT FROM INTERIOR AND EXTERIOR SURFACES IN BUILDINGS AND STRUCTURES SUBJECT TO DEMOLITION. THE CONTRACTOR SHALL ALSO REMOVE DIRT, DEBRIS, GRIT, PAINT, LOOSE FLOOR OVERLAY, ETC. THAT IS PRESENT ON FLOORS PRIOR TO DEMOLITION.
9. LIGHT GREEN / AQUA COLORED PAINT THROUGHOUT BUILDING 40 SHALL BE SEGREGATED FOR OFF-SITE DISPOSAL AS NON-TSCA, RCRA HAZARDOUS WASTE. OTHER REMOVED PAINT MATERIAL SHALL BE SEGREGATED FOR OFF-SITE DISPOSAL AS NON-TSCA WASTE, PENDING ADDITIONAL ANALYTICAL TO BE PERFORMED BY CONTRACTOR (IF ANY).
10. TWO LARGE TRANSFORMERS IN SHIELDED TEST CELL AREA REQUIRE CLEANING BY CONTRACTOR AND WIPE SAMPLING BY CONTRACTOR TO CONFIRM MATERIAL CAN BE TRANSPORTED OFF-SITE FOR RECYCLE.

30' 0 30' 60'
1"=30'

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING. USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

Professional Engineer's Name: WILLIAM A. RANKIN III
Professional Engineer's No.: 073688

State	Date Signed	Project Mgr.
NY	7/18/19	KEG
Designed by	Drawn by	Checked by
KEG	LJP	WAR

STATE OF NEW YORK WILLIAM ALLEN RANKIN III 073688 LICENSED PROFESSIONAL ENGINEER

GENERAL ELECTRIC COMPANY • FORT EDWARD, NEW YORK
BUILDING DEMOLITION - TECHNICAL DRAWINGS

MANAGEMENT OF BUILDING DEBRIS (EXCLUDING ROOFS) - 1ST FLOOR BUILDING 40

ARCADIS Project No.
30006366 - ARC1327.3001A
Date
JULY 2019

ARCADIS
ONE LINCOLN CENTER
110 WEST FAYETTE STREET
SYRACUSE, NEW YORK 13202
TEL. 315.446.9120

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LEGEND:

- BUILDING
- EXISTING INTERIOR WALLS
- PROPERTY LINE (APPROXIMATE)
- GRASS
- FENCE
- RAILROAD
- NON-TSCA MATERIAL
- INTERIOR MATERIALS – NON-TSCA FOR DISPOSAL

NOTES:

1. ON-SITE MANAGEMENT OF PROJECT MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 02006 (STAGING, LOADING, AND DISPOSITION OF PROJECT MATERIALS) AND OTHER RELEVANT CONTRACT DOCUMENTS.
2. AS GENERATED, CONTRACTOR SHALL SEGREGATE PROJECT MATERIALS INTO SIMILAR TYPES FOR HANDLING, MANAGEMENT, AND DISPOSITION. CONTRACTOR SHALL DELINEATE THE LOCATION OF EACH PROJECT MATERIAL AND RECEIVE THE CM'S APPROVAL OF THAT DELINEATION BEFORE PROCEEDING WITH RELATED DEMOLITION ACTIVITIES.
3. UNLESS OTHERWISE SPECIFIED IN THE CONTRACT DOCUMENTS, OWNER WILL BE RESPONSIBLE FOR THE SHIPPING AND ANALYSIS OF ADDITIONAL WASTE CHARACTERIZATION SAMPLES, IF NECESSARY, TO FACILITATE WASTE PROFILING. FOR PLANNING PURPOSES, CONTRACTOR SHALL ALLOW FOR A TWO-WEEK TIMEFRAME FOR SAMPLE COLLECTION AND RECEIPT OF ANALYTICAL RESULTS. CONTRACTOR IS RESPONSIBLE FOR SAMPLING AND ANALYSIS ASSOCIATED WITH POST-DECONTAMINATION OR POST CLEANING (FOR SALVAGE).
4. "RCRA-REGULATED MATERIALS ARE PROJECT MATERIALS THAT EXCEED THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA: 40 CFR 268) LIMITS FOR CERTAIN CONSTITUENTS AND SHALL BE MANAGED UNDER RCRA."
5. BUILDING MATERIALS IN BUILDING 40 (WITH THE EXCEPTION OF THE MASONRY WALL IN THE ELECTRICAL LIFE TEST AREA AND REMOVED PAINT MATERIAL IDENTIFIED FOR RCRA DISPOSAL), INCLUDING PAINTED STEEL, SHALL BE MANAGED AS NON-TSCA MATERIAL. CONTRACTOR SHALL ASSUME PAINTED STEEL CAN BE SALVAGED; HOWEVER, THIS MATERIAL IS SUBJECT TO CONFIRMATION WIPE SAMPLING BY CONTRACTOR AND APPROVAL BY CM PRIOR TO RELEASE FOR SALVAGE.
6. MASONRY MATERIAL FROM BUILDING 40 SHALL BE CRUSHED TO A MAXIMUM DIMENSION OF SIX INCHES AND RE-USED ON-SITE.
7. THE CONTRACTOR SHALL REMOVE AND CONTAINERIZE FOR SUBSEQUENT OFF-SITE DISPOSAL HAZARDOUS SUBSTANCES PRESENT WITHIN THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO UNIVERSAL WASTES, REGULATED WASTES. LIQUID WASTES, AND ACMs (INCLUDING; WITHOUT LIMITATION INTERNAL ELECTRICAL COMPONENTS [e.g., SAFETY SWITCHES, MANUAL SHUT OFFS, BREAKER PANELS, SUB STATIONS, ELECTRICAL BOXES, WIRE] AND PIPE FLANGE GASKETS THROUGHOUT BUILDING 40. THESE MATERIALS ARE ASSUMED ACM UNTIL LABORATORY ANALYSIS CAN CONFIRM OR DENY THE PRESENCE OF ASBESTOS).
8. THE CONTRACTOR SHALL REMOVE AND CONTAINERIZE LOOSELY ADHERED PAINT FROM INTERIOR AND EXTERIOR SURFACES IN BUILDINGS AND STRUCTURES SUBJECT TO DEMOLITION. THE CONTRACTOR SHALL ALSO REMOVE DIRT, DEBRIS, GRIT, PAINT, LOOSE FLOOR OVERLAY, ETC. THAT IS PRESENT ON FLOORS PRIOR TO DEMOLITION.
9. LIGHT GREEN / AQUA COLORED PAINT THROUGHOUT BUILDING 40 SHALL BE SEGREGATED FOR OFF-SITE DISPOSAL AS NON-TSCA, RCRA HAZARDOUS WASTE. OTHER REMOVED PAINT MATERIAL SHALL BE SEGREGATED FOR OFF-SITE DISPOSAL AS NON-TSCA WASTE, PENDING ADDITIONAL ANALYTICAL TO BE PERFORMED BY CONTRACTOR (IF ANY).

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Professional Engineer's Name: WILLIAM A. RANKIN III
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ARCADIS Design & Consultancy for natural and built assets

ARCADIS OF NEW YORK, INC.

GENERAL ELECTRIC COMPANY ◆ FORT EDWARD, NEW YORK

BUILDING DEMOLITION - TECHNICAL DRAWINGS

MANAGEMENT OF BUILDING DEBRIS (EXCLUDING ROOFS) - 2ND FLOOR BUILDING 40

ARCADIS Project No.
30006366 - ARC1327.3001A

Date
JULY 2019

ARCADIS
ONE LINCOLN CENTER
110 WEST FAYETTE STREET
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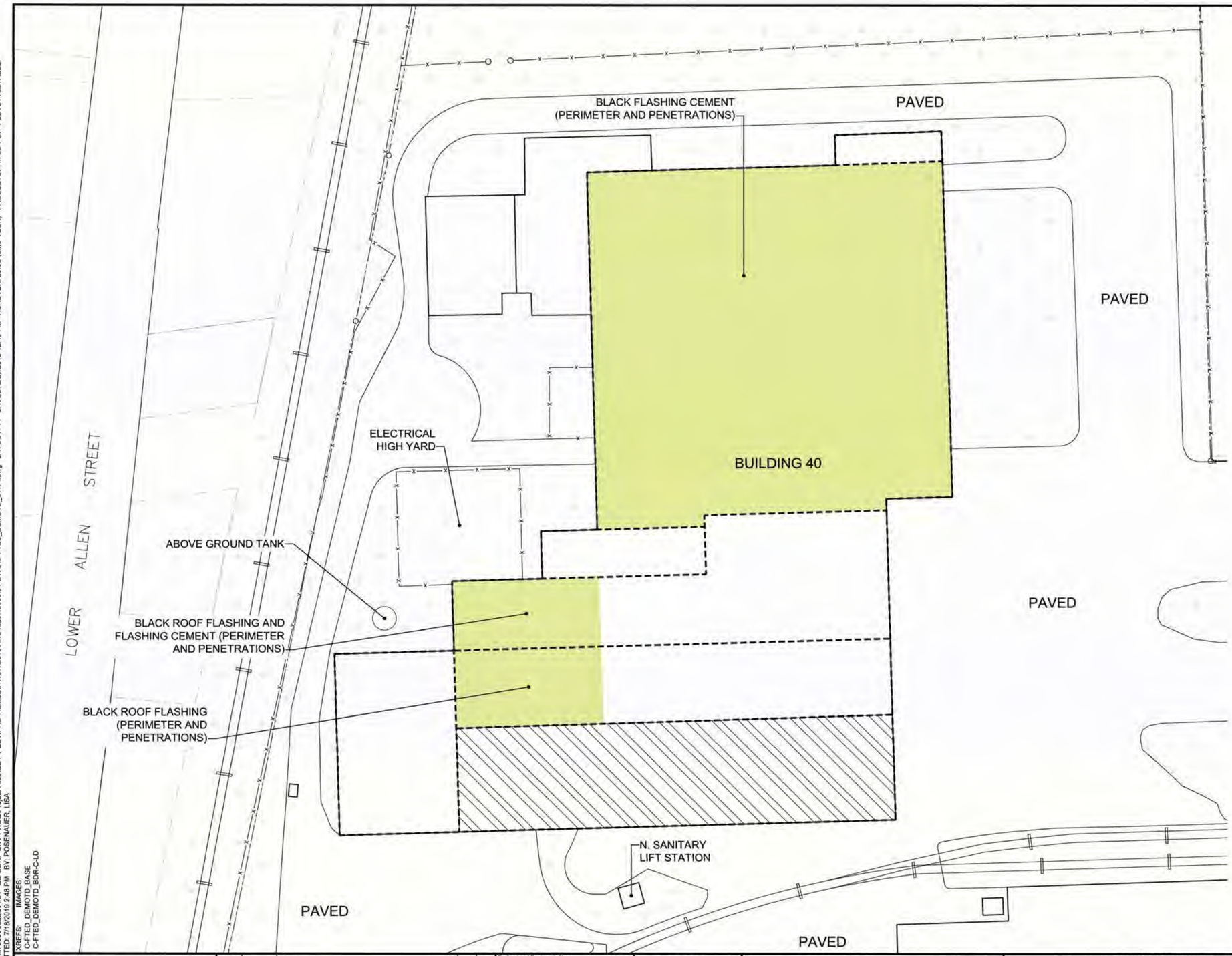

LEGEND:

- BUILDING
- EXISTING INTERIOR WALLS
- APPROXIMATE ROOF LINE
- PROPERTY LINE (APPROXIMATE)
- GRASS
- FENCE
- RAILROAD
- NON-TSCA MATERIAL
- APPROXIMATE ROOF AREA THAT MAY BE DISPOSED AS OF NON-REGULATED WASTE
- APPROXIMATE ROOF AREA CONTAINING ASBESTOS THAT SHALL BE ABATED PRIOR TO DEMOLITION

NOTES:

1. ON-SITE MANAGEMENT OF PROJECT MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 02006 (STAGING, LOADING, AND DISPOSITION OF PROJECT MATERIALS).
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4. ROOFING MATERIALS SHALL BE MANAGED AS NON-TSCA WASTE (ACM OR NON-ACM).

CITY: SYRACUSE, NY DIV/GROUP: EBC/MDV DB: L.POSENAUER PM: W.RANKIN TM: K.GAJEWSKI LYR:ON=*;OFF=*REF*
C:\Users\lposenauer\BIM 360\Arcadis\ANA - GE CORP ENV PROG\Project Files\GE FT EDWARD REMEDIATION\2019\ARC1327.3000\01-DWG\G-FTED_DEMOTD_DR14.dwg LAYOUT: 14 SAVED: 2/25/2019 12:49 PM ACADVER: 23.0S (LMS TECH) PAGESETUP: M-LD-PDF PLOTSTYLETABLE:
PLTCONT:CTB PLOTTED: 7/19/2019 2:48 PM BY: POSENAUER, LISA
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C-FTED_DEMOTD_BASE
C-FTED_DEMOTD_BDR-C-LD

30' 0 30' 60'
1"=30'

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING. USE TO VERIFY FIGURE REPRODUCTION SCALE.

No.	Date	Revisions	By	Ckd

Professional Engineer's Name: **WILLIAM A. RANKIN III**
Professional Engineer's No.: 073688

State	Date Signed	Project Mgr.
NY	7/18/19	KEG
Designed by	**Drawn by**	**Checked by**
KEG	LJP	WAR

STATE OF NEW YORK · WILLIAM ALLEN RANKIN III · 073688 · LICENSED PROFESSIONAL ENGINEER

ARCADIS Design & Consultancy for natural and built assets
ARCADIS OF NEW YORK, INC.

GENERAL ELECTRIC COMPANY • FORT EDWARD, NEW YORK
BUILDING DEMOLITION - TECHNICAL DRAWINGS

MANAGEMENT OF BUILDING DEBRIS - BUILDING 40 ROOF

ARCADIS Project No.
30005366 - ARC1327.3001A
Date
JULY 2019

ARCADIS
ONE LINCOLN CENTER
110 WEST FAYETTE STREET
SYRACUSE, NEW YORK 13202
TEL. 315.446.9120

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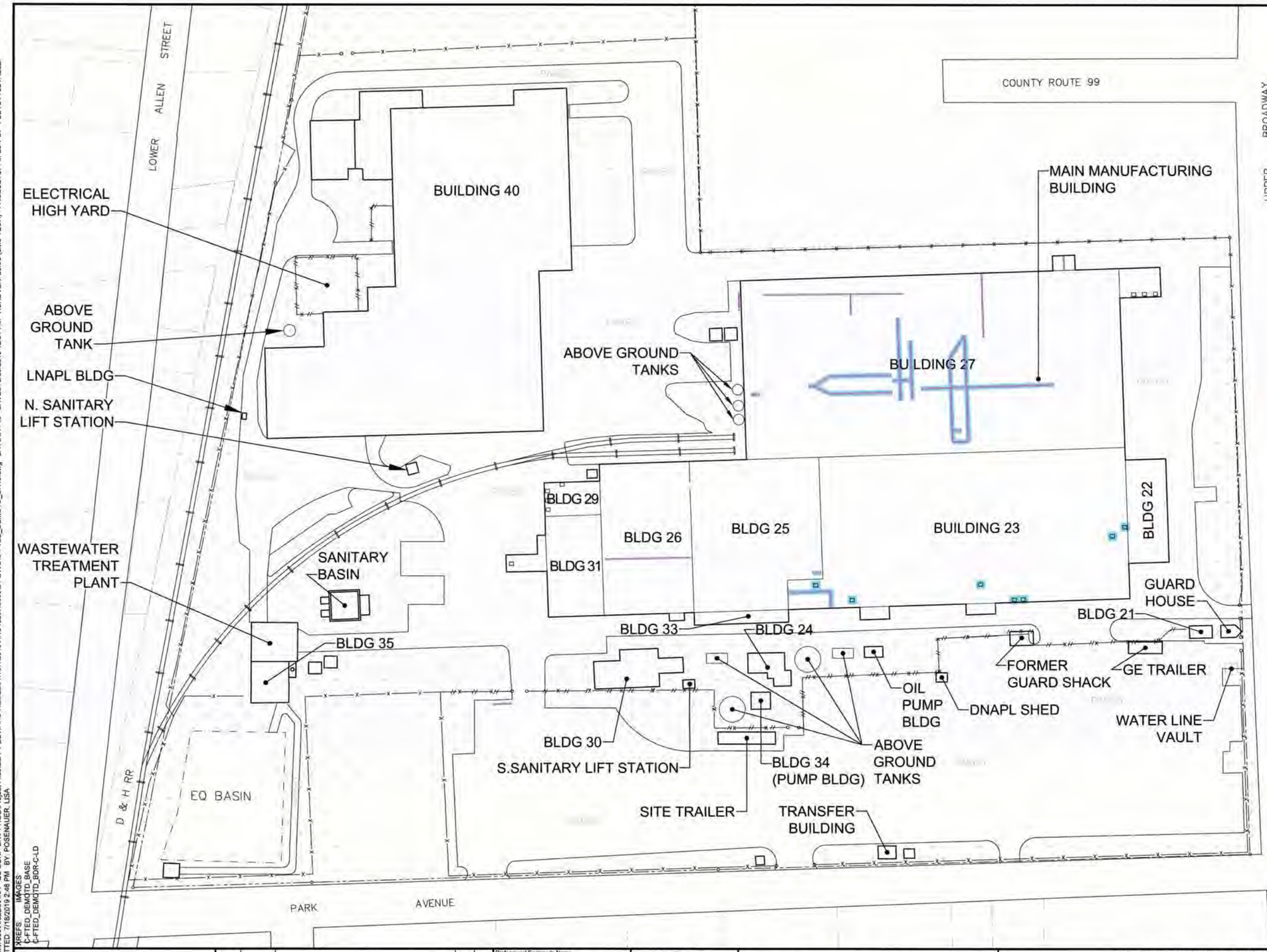

LEGEND:

- BUILDING
- INTERIOR BUILDING LINES
- PROPERTY LINE (APPROXIMATE)
- GRASS
- WATER
- FENCE
- FENCING TO BE REMOVED PRIOR TO DEMOBILIZATION
- RAILROAD
- TRENCH
- PITS
- PITS / TRENCHES IDENTIFIED FOR BACKFILL

NOTES:

1. REFER TO DRAWING 1 FOR BASEMAP INFORMATION.
2. PITS, VAULTS, SUMPS, TRENCHES, CATCH BASINS, OR OTHER VOIDS SHALL BE CLEARED OF ANY LIQUID AND DEBRIS PRIOR TO IMPLEMENTING PLUGGING ACTIVITIES. UNLESS OTHERWISE SPECIFIED, DRAINS, OUTLETS, OR PIPING THAT ENTERS OR LEAVES THE PIT, ETC. SHALL BE FITTED WITH A COMPRESSION-TYPE MECHANICAL PLUG, OR OTHER APPROVED MEANS, FOLLOWED BY THE PLACEMENT OF NON-SHRINK GROUT TO BE LEVEL/FLUSH WITH THE SURROUNDING SURFACE. IF THE INTERIOR PIT, ETC. SURFACES ARE NOT VISUALLY CLEAN TO THE SATISFACTION OF THE OWNER, THE CONTRACTOR SHALL PRESSURE WASH SURFACES, AND COLLECT THE WASH WATER FOR SUBSEQUENT DISPOSITION TO ON-SITE WASTEWATER TREATMENT PLANT.
3. PITS, TRENCHES, OR OTHER SUBSURFACE VOIDS NOT ASSOCIATED WITH THE STORM/SEWER SYSTEM SHALL BE FILLED WITH SUITABLE CRUSHED DEMOLITION DEBRIS (i.e., UNPAINTED BRICK OR CONCRETE) OR CLEAN FILL TO A LEVEL FLUSH TO THE EXISTING CONCRETE SLAB FLOOR SURFACE IN AREAS SUBJECT TO SURFACE COVER. CERTAIN PITS AND TRENCHES THAT REQUIRE BACKFILLING HAVE BEEN IDENTIFIED ON THIS DRAWING. THIS INFORMATION IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY, AND SHALL NOT BE RELIED UPON AS CURRENT, COMPLETE, OR ACCURATE.
4. BACKFILLING AND COMPACTION EQUIPMENT SHALL BE SIZED APPROPRIATELY BASED ON SITE CONDITIONS AND CONSTRAINTS. IF CONTRACTOR PROPOSED METHOD DOES NOT PRODUCE A SUFFICIENT DEGREE OF COMPACTION, AN ALTERNATE METHOD SHALL BE ADOPTED UNTIL SUFFICIENT COMPACTION IS ACHIEVED, AS DEEMED BY CM, AT CONTRACTOR'S SOLE EXPENSE.
5. LOOSE DIRT AND DEBRIS SHALL BE REMOVED FROM EXPOSED SURFACES PRIOR TO ADDING FILL MATERIAL.

1"=60' (60' 0 60' 120')

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING. USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

Professional Engineer's Name: WILLIAM A. RANKIN III		
Professional Engineer's No.: 073688		
State: NY	Date Signed: 7/18/19	Project Mgr.: KEG
Designed by: KEG	Drawn by: LJP	Checked by: WAR

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ARCADIS Design & Consultancy for natural and built assets

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BUILDING DEMOLITION - TECHNICAL DRAWINGS

SUBSURFACE VOID CLEAN-OUT

ARCADIS Project No.: 30006366 - ARC1327.3001A
Date: JULY 2019

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ONE LINCOLN CENTER
110 WEST FAYETTE STREET
SYRACUSE, NEW YORK 13202
TEL. 315.446.9120

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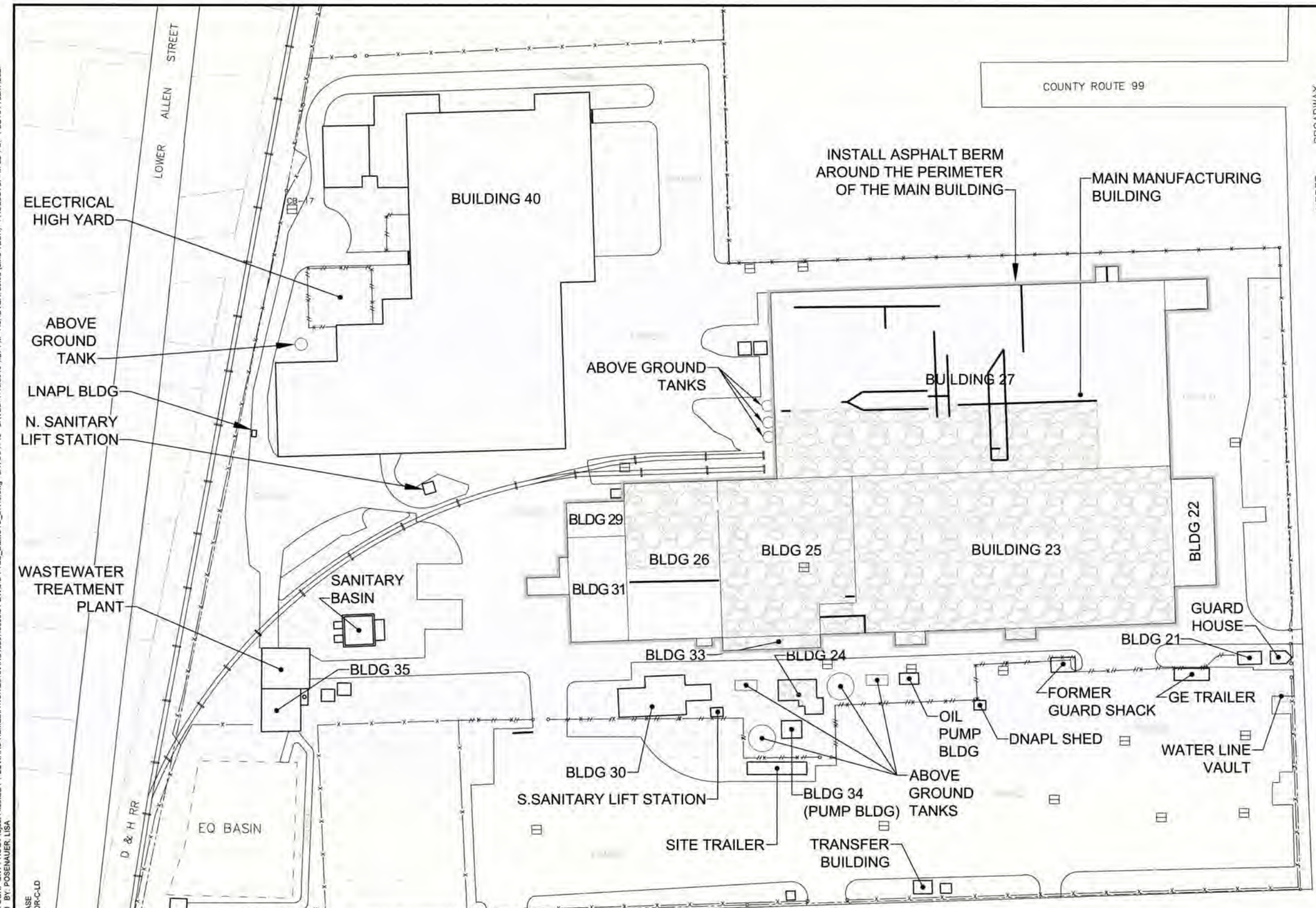

LEGEND:

- BUILDING
- INTERIOR BUILDING LINES
- PROPERTY LINE (APPROXIMATE)
- GRASS
- WATER
- FENCE
- FENCING TO BE REMOVED PRIOR TO DEMOBILIZATION
- RAILROAD
- ASPHALT BERM
- MINIMUM 4-INCH LAYER OF SURFACE COVER (REUSED CRUSHED MASONRY OR CLEAN IMPORTED MATERIAL)
- TRENCH
- CB CATCH BASIN
- PITS

NOTES:

1. REFER TO DRAWING 1 FOR BASEMAP INFORMATION.
2. RESTORATION ACTIVITIES SHALL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 02007 (PROJECT RESTORATION).
3. BACKFILLING AND COMPACTION EQUIPMENT SHALL BE SIZED APPROPRIATELY BASED ON SITE CONDITIONS AND CONSTRAINTS. IF CONTRACTOR PROPOSED METHOD DOES NOT PRODUCE A SUFFICIENT DEGREE OF COMPACTION, AN ALTERNATE METHOD SHALL BE ADOPTED UNTIL SUFFICIENT COMPACTION IS ACHIEVED, AS DEEMED BY CM, AT CONTRACTOR'S SOLE EXPENSE.
4. THE CONTRACTOR SHALL INSTALL APPROPRIATE EROSION AND SEDIMENT CONTROLS OVER ANY DISTURBED AND/OR EXPOSED SOIL AREAS (i.e., TOPSOIL, SEED, MULCH), IN ACCORDANCE WITH APPLICABLE STATE AND LOCAL REQUIREMENTS.
5. CONTRACTOR SHALL PROVIDE SOIL PREPARATION, SEEDING, AND SURFACE TOPDRESSING OF AREAS INSIDE OR OUTSIDE THE LIMITS OF CONSTRUCTION THAT ARE DISTURBED BY THE CONTRACTOR'S OPERATIONS. CONTRACTOR SHALL SPREAD TOPSOIL OVER ROUGH FINISH GRADE, COMPACT AND FINE GRADE. AT A MINIMUM, THE CONTRACTOR SHALL INSTALL 3" – 6" OF TOPSOIL PRIOR TO SEEDING TO ENSURE ADEQUATE GROWTH.
6. ANY ITEMS, INTACT SURFACES, STRUCTURES, UTILITIES, ETC. INCIDENTALLY DAMAGED AS A RESULT OF THE PROJECT MUST BE RESTORED IN LIKE MATERIAL AND CONFIGURATION TO THAT WHICH EXISTED PRIOR TO THE DAMAGE.
7. CONTRACTOR SHALL ELIMINATE PHYSICAL TRIP/FALL HAZARDS ASSOCIATED WITH REMAINING AT-GRADE CONCRETE SLABS AND SURROUNDING GRADE. SLAB ELEVATION CHANGES SHALL BE ADDRESSED BY THE CONTRACTOR IN CONSULTATION WITH THE CM AND OWNER.
8. LOOSE DIRT AND DEBRIS SHALL BE REMOVED FROM EXPOSED SURFACES THROUGHOUT THE SITE DURING ON-GOING DEMOLITION ACTIVITIES AND PRIOR TO ADDING COVER FILL MATERIAL.
9. ROOF DRAIN PIPES SHALL BE RESTORED WITH MIFAB SERIES R1100-G LACQUERED CAST IRON ROOF DRAIN (OR APPROVED EQUAL) FOLLOWING DEMOLITION ACTIVITIES AND REMOVAL OF TEMPORARY ROOF DRAIN PLUG.
10. CONTRACTOR SHALL EXTEND THE ASPHALT BERM TO PREVENT RAINFALL RUNOFF FROM DRAINING TO ADJACENT AREAS.

60' 0 60' 120'
1"=60'

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING.

USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

Professional Engineer's Name: WILLIAM A. RANKIN III
Professional Engineer's No.: 073688

State	Date Signed	Project Mgr.
NY	7/18/19	KEG
Designed by: KEG	Drawn by: LJP	Checked by: WAR

GENERAL ELECTRIC COMPANY ● FORT EDWARD, NEW YORK
BUILDING DEMOLITION - TECHNICAL DRAWINGS

POST-DEMOLITION SITE RESTORATION

ARCADIS Project No.
30008366 - ARC1327.3001A

Date
JULY 2019

ARCADIS
ONE LINCOLN CENTER
110 WEST FAYETTE STREET
SYRACUSE, NEW YORK 13202
TEL. 315.446.9120

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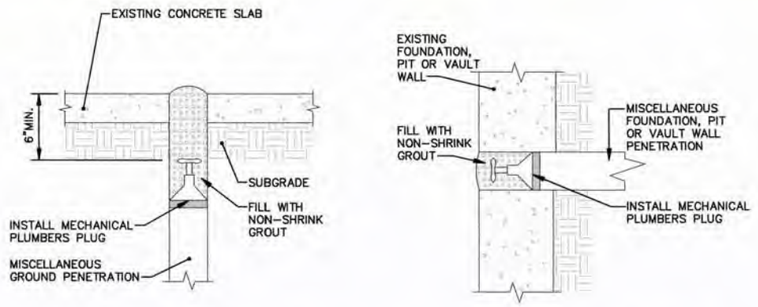
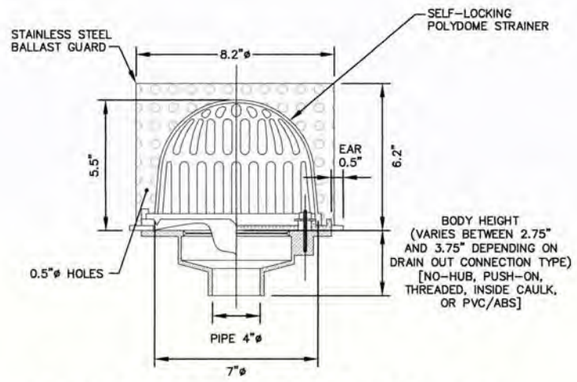


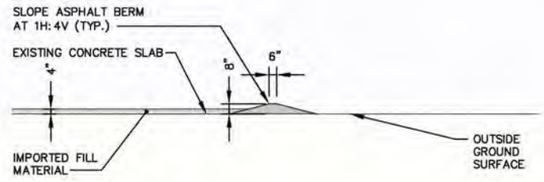
HORIZONTAL AND VERTICAL PENETRATION PLUGGING DETAIL (1)

NOT TO SCALE



TYPICAL DRAIN FILTER DETAIL (2)

NOT TO SCALE



NOTE:

1. FOR CLARITY, THE SECTION IS EXAGGERATED 4 TIMES THE DRAWING SCALE.

GENERAL ASPHALT BERM DETAIL (3)

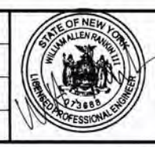
NOT TO SCALE

THIS BAR REPRESENTS ONE INCH ON THE ORIGINAL DRAWING: USE TO VERIFY FIGURE REPRODUCTION SCALE

No.	Date	Revisions	By	Ckd

Professional Engineer's Name: WILLIAM A. RANKIN III
Professional Engineer's No.: 073688

State	Date Signed	Project Mgr.
NY	7/18/19	KEG
Designed by: KEG	Drawn by: LJP	Checked by: WAR



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BUILDING DEMOLITION - TECHNICAL DRAWINGS

MISCELLANEOUS SITE RESTORATION DETAILS

ARCADIS Project No.
30006366 - ARC1327.3001A

Date
JULY 2019

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ONE LINCOLN CENTER
110 WEST FAYETTE STREET
SYRACUSE, NEW YORK 13202
TEL. 315.446.9120

APPENDIX C

Technical Specifications

SECTION 01101

SUMMARY OF WORK - DEMOLITION

PART 1 – GENERAL

1.01 PROJECT SUMMARY AND BACKGROUND

A. The Project includes demolition (and all related activities) of the above-grade portions of Buildings 22, 23, 24, 25, 26, 27, 29, 31, 33, 34, 40, certain outbuildings, exterior structures (e.g., tanks, silos, air compressors, light posts in parking lot, inactive electrical power poles), and the electrical high yard, and areas supporting these activities, as identified in the Contract Drawings at the GE Fort Edward plant site located at 381 Broadway in Fort Edward, New York ("Property," or "Site"). Demolition of Building 30, the guard house, and the Wastewater Treatment Plant (WWTP) are not included in this Project.

B. Demolition includes without limitations the above-grade building infrastructure (e.g., interior and exterior walls, roof systems, structural support, windows, doors); former tanks; former above-grade tank foundations; utilities; lighting; HVAC components; and equipment, materials, debris and other ancillary items (e.g., stairways, handrails, guardrails, and bollards) that are attached to or present in close proximity to the buildings and structures. Demolition also includes removal of non-concrete flooring down to the at-grade slab (e.g., wood block floor, floor tiles).

C. The Project involves the identification, removal, handling, sizing, and loading and/or stockpiling of materials currently located within the Contract Work Area in accordance with applicable federal, state, and local Regulations and Laws. These items generally include Asbestos-Containing Material (ACM), Hazardous Substances, Hazardous Waste, Reusable Masonry Material, Solid Waste, Universal Waste, Liquid Waste, Waste, Recyclable Metal, and other materials that may be encountered or generated by the Contractor during the Project, including without limitation liquids and solids within pits, water accumulated during the Project, equipment and personnel cleaning liquids, PPE, etc. (collectively, "Project Materials"). Furthermore, Contractor shall also be aware that certain building components contain organic hazards, including but not limited to, bird excrement, animal carcasses, mold, mushrooms, etc. Contractor shall be responsible for the transportation and disposition of Recyclable Metal and for providing disposal containers for Universal Wastes and Liquids Wastes; transportation and disposal of Wastes will be performed by the Disposition Contractor or Owner.

D. Contractor shall prevent the release and/or migration of debris, fuels, solvents, lubricants, or any other pollutant within and from the Site, whether related to Project activities, occurring via environmental (airborne or precipitation runoff) or mechanical (vehicle tracking) means. Several Site controls shall be installed, monitored, and maintained, as needed or as directed by the Owner or CM, throughout the Project, including during off-hours and non-work days. Any materials tracked or otherwise spilled/dropped onto off-Site areas shall be removed immediately at no additional cost to Owner.

E. Contractor shall provide a work area that is secure and adequate to prevent unknowing or unauthorized persons from entering the Site. Measures shall include at a minimum the maintenance of existing security fencing (supplemented as needed) and compliance with

Owner-provided controlled access to the Property (24-hour security and sign-in sheet for Project personnel and visitors).

F. Owner will implement a Community Air Monitoring Program (CAMP – Section 00520 Appendix H) to monitor ambient air quality and assess potential airborne, project-related particulates during demolition activities. Monitoring equipment will assess potential presence of total suspended particulates less than 10 microns in diameter (PM_{10}), volatile organic compounds (VOCs), and polychlorinated biphenyls (PCBs). Contractor shall adhere to the action levels and associated response actions outlined in the CAMP. If emission control measures do not consistently prevent exceedance of the CAMP action levels, Project activities may be suspended until such time that additional control measures are implemented to allow the work to continue without exceeding the action levels.

G. This Property is a New York State Department of Environmental Conservation (NYSDEC)-listed inactive hazardous waste site (Site No. 5-58-004) and is subject to remediation pursuant to a 2001 Order on Consent (Index No. D5-0001-2000-03) between GE and NYSDEC. Prior to commencement of Work, Contractor must certify that all personnel involved in the Project, have completed a 40-hour hazardous waste site health and safety training course (and annual refresher training) in accordance with 29 CFR 1910.120, 29 CFR 1926.65 and Section 01350. Contractor must also certify that any individuals who later became employed by Contractor for such purposes also receive such training prior to performing Work at the Property.

1.02 APPLICABLE CODES, REGULATIONS, AND STANDARDS

A. Contractor must fully understand and adhere to all applicable Laws, Regulations, codes, standards, specifications and guidelines whether or not specifically listed herein, which may include, without limitation, the following:

FEDERAL	**TOPIC**
40 CFR 761 (TSCA)	Handling, Treatment, Storage, Transportation, and Disposal of PCB-Containing Materials
40 CFR 260-267 (RCRA)	Hazardous Waste Management Regulations
40 CFR 268 (RCRA)	Land Disposal Restrictions
40 CFR 273	Standards for Universal Waste Management
40 CFR 279	Standards for the Management of Used Oils
40 CFR 82	Protection of Stratospheric Ozone
29 CFR 1910 and 1926	OSHA Standards
40 CFR Part 61	Asbestos National Emissions Standards for Hazardous Air Pollutants (NESHAP)
40 CFR 100-149	Clean Water Act
CFR Title 49 (DOT)	Transportation
NFPA	Fire, Electric and Building Safety Codes and Standards
IFC	Safeguarding Life and Property from Fire and Explosion Hazards

STATE	TOPIC
6 NYCRR	Quality Services
6 NYCRR Part 375	Environmental Remediation Programs
12 NYCRR Part 56, or ICR 56	Asbestos
New York Labor Law Article 30	Asbestos or Products Containing Asbestos; Licensing
NYSDOT Standard Specifications	Construction and Materials
NYSDEC DER-10	Technical Guidance for Site Investigation and Remediation
New York State Standards and Specifications for Erosion and Sediment Control	Erosion and Sediment Control

LOCAL	TOPIC
Town of Fort Ed. Code Ch. 51	Fire Prevention and Building Code
Town of Fort Ed. Code Ch. 56	Stormwater Management and Erosion and Sediment Control
Town of Fort Ed. Code Ch. 62	Hazardous Wastes
Town of Fort Ed. Code Ch. 82	Solid Waste
Town of Fort Ed. Code Ch. 99	Vehicles and Traffic

STANDARDS & SPECIFICATIONS	TOPIC
AASHTO M 288	Std Spec. - Geosynthetic Spec. for Highway Applications
ASTM D422	Std Test Method - Particle-Size Analysis of Soils
ASTM D698	Std Test Method - Lab Compaction Characteristics of Soil Using Std Effort
ASTM D2487	Std Practice - Class. of Soils for Eng. Purposes (USCS)
ASTM D3786	Std Test Method - Bursting Strength of Textile Fabrics
ASTM D4355	Std Test Method - Deterioration of Geotextiles by Exposure to Light, Moisture, & Heat in a Xenon Arc Apparatus
ASTM D4491	Std Test Methods - Water Permeability of Geotextiles by Permittivity
ASTM D4533	Std Test Method - Trapezoid Tearing Strength of Geotextiles
ASTM D4632	Std Test Method - Grab Breaking Load & Elongation of Geotextiles
ASTM D4751	Std Test Method - Determining Apparent Opening Size of a Geotextile
ASTM D5261	Std Test Method - Measuring Mass per Unit Area of Geotextiles
ASTM D6241	Std Test Method - the Static Puncture Strength of Geotextiles and Geotextile-Related Products
ASTM D6938	Std Test Method - In-Place Density and Water Content of Soil & Soil-Aggregate by Nuclear Methods (Shallow Depth)
GRI GT12	Test Methods & Properties for Non-Woven Geotextiles Used as Protection (or Cushioning) Materials
GRI GT13	Test Methods & Properties for Geotextiles Used as Separation Between Subgrade Soil and Aggregate

1.03 DEFINITIONS

A. Construction Manager (CM): AECOM

B. Engineer: Arcadis of New York, Inc. (ANY)

C. Owner: General Electric Company (GE)

D. Contract Work Area: the areas within the Property that are subject to Project activities

E. Property or Site: the approximate 31.8-acre, Owner-owned property located at 381 Broadway in Fort Edward, New York.

1.04 EXISTING CONDITIONS

A. Available information related to existing conditions at the Property is included in the Contract Documents. This information should not be relied upon as current, complete or accurate and is provided for informational purposes only.

B. Contractor shall be responsible for verifying all existing conditions, including without limitation the existing building construction and physical condition; and the type, condition, location, and quantity of materials subject to all aspects of the Project (demolition, transport, recycling, disposal, etc.).

C. Owner has removed Universal Wastes, Liquid Wastes, and ACMs throughout the Contract Work Area in anticipation of Project activities; however, not all materials were removed. The Contractor is responsible for identifying and removing the remaining Universal Wastes, Liquid Wastes, ACMs, other environmental and/or regulated materials that are visible within the Contract Work Area at the time of Contract execution.

D. Owner has performed characterization activities within the buildings/structures subject to demolition to support the planning and design of the Project including pre-demolition activities, demolition sequencing and disposition of demolition debris. Results are provided in the Contract Documents.

PART 2– PRODUCTS

A. Material, equipment and Waste containers used in conjunction with the Project must be in good condition and approved by Owner or CM.

PART 3 – EXECUTION

3.01 SITE PREPARATION / PRE-DEMOLITION ACTIVITIES

Prior to or in conjunction with the initial phases of the Project, the Contractor shall complete several activities necessary to plan and support the Work including, without limitation:

A. Attend a Contractor Site orientation provided by Owner.

B. Prepare various draft and then final Work Plans, technical submittals, and Project documents (including permits/notifications) as identified and necessary to implement the Project. Any such documents requiring final submittal to an entity other than the Owner shall be first submitted to the Owner for review and approval.

C. Mobilize personnel, equipment, materials, etc. to the Property, and conduct initial set-up activities, including temporary utility connections, as needed.

D. Identify and implement the specified measures or equivalent Owner- and Town-approved measures to protect the safety of pedestrians and vehicles on public streets and areas within and adjacent to the Property, including traffic controls, roadway/sidewalk closure, temporary barricade or traffic protection.

E. Install various measures for erosion and sedimentation control, and stormwater management.

F. Construct temporary Project support areas, including Contractor office space; temporary processing and staging area for demolition debris subject to off-Site disposal; on-Site storage areas for materials subject to future on-Site reuse; equipment/material staging areas; equipment/personnel decontamination areas; on-Site truck scale; temporary sanitary facilities; etc.

G. Furnish, install, and maintain visual barriers throughout the Project duration. At a minimum, barriers shall be installed in key locations to obscure public view from Broadway, the adjacent buildings to the north, and any other location, as identified by the CM. Barriers may be in the form of physical screens and/or consist of demolition sequencing methods that utilize the existing building walls to provide a visual barrier for the majority of the Project duration.

H. Protect existing physical features located within the Property including roadways, structures and utilities, monitoring/extraction wells, and associated infrastructure that are not subject to demolition or termination as part of the Project.

I. Terminate all remaining Site utility services (e.g., natural gas, water (domestic and fire protection), electric and telephone service), in coordination with utility service owner(s) and Owner.

J. Demarcate and protect areas within the Property that potentially represent a work place safety hazard (e.g., pits, sumps, openings, vaults).

K. Remove and containerize for subsequent off-Site disposal (by the Disposition Contractor or Owner) all hazardous substances present within the Site, including but not limited to Universal Wastes, Liquid Wastes, regulated wastes, and ACMs.

L. Remove and containerize loosely adhered paint from all interior and exterior surfaces (e.g., walls, floors, ceilings, piping, structural supports) of all buildings and structures subject to demolition. Also remove dirt, debris, grit, paint, loose floor overlay, etc. that is present on all floors prior to demolition.

M. Remove or relocate items within Buildings 23, 29, and 31 that are not integral to the building infrastructure, such as piping, equipment, partition walls, tanks, debris, and refuse prior to roof demolition.

N. With approval by CM, demarcate areas within the Contract Work Area where special demolition and material handling activities are required (e.g., areas subject to disposal as TSCA-regulated materials, reusable masonry material, ACMs).

O. Maintain the Site throughout the duration of the Project, including without limitation: snow and ice removal; vegetation removal, where necessary surrounding the buildings to be demolished; and implementing good housekeeping practices.

3.02 DEMOLITION / DISPOSITION

A. Coordinate the sequence of demolition activities in consideration of: 1) pre-demolition activities listed in Part 3.01, 2) non-Project-related activities performed by Owner within the Property, 3) requirements of the Town and County with respect to protection, maintenance and control of public roadways, 4) location and structural condition of buildings/structures within the Property, 5) management of demolition debris, and 6) load-out of Project Materials with respect to Disposition Contractor requirements.

B. Deconstruct buildings/structures considering the structural features, the types and quantities of debris to be generated, and various on-Site management and disposition methods of the debris, including off-Site disposition of regulated and unregulated wastes, off-Site recycling of salvageable materials and on-Site reuse of suitable inert material.

C. Manage demolition activities and debris in a manner that promotes safe working conditions at all times and does not result in generation of airborne dust or migration/tracking of debris.

D. Manage, segregate, handle, size, containerize, stage, load, stockpile, and otherwise process demolition debris depending on the material and consistent with requirements defined within the Contract Documents specific to on-Site or off-Site disposition.

E. Coordinate off-Site transport of all Project Materials with Owner, including but not limited to the sizing, handling, on-Site movement, and loading of Wastes; coordinating with Owner, CM, and Disposition Contractor regarding scheduling of containers and transport vehicles, managing and directing all material transport vehicles to and from the Site with the Disposition Contractor, loading materials into containers, on-Site safety of all personnel, traffic management, dust control, and record keeping.

F. Continuously manage the Site to minimize generation of dust and migration/tracking of debris. At a minimum, Contractor shall implement water-based dust suppression at multiple locations, remove dirt, debris, grit, etc. as accumulated within accessible Project work areas, and install and secure tarping over Project Materials at all times. Dust suppression shall also be in accordance with Section 00520 (Appendix H – CAMP) and Section 01140 (Work Restrictions).

3.03 PROJECT RESTORATION / DEMOBILIZATION

A. Repair any surfaces, pavements, parking lots, sidewalks, fencing, curbs, gutters, culverts and other features disturbed, damaged or destroyed during the performance of the Work that were not identified for demolition, unless otherwise directed by CM.

B. Eliminate grade changes that present a potential trip or fall hazard, including without limitation changes in surface elevation within the Site, and between the perimeter building slab/foundation and the adjacent ground surface elevation.

C. Backfill pits, trenches, and other subsurface voids (where identified on the Contract Drawings) with reusable masonry material and supplement with import fill.

D. Install asphalt berm, geotextile, and crushed masonry material cover over certain areas of the concrete slab, as identified on the Contract Drawings.

E. Modify and/or remove various Site and traffic controls installed to support Project activities.

F. Remove equipment, materials, temporary utilities, and support areas, including cleaning and verification sampling by Contractor.

G. Perform general housekeeping activities to restore the Site and adjacent public roadways to a clean, safe, debris-free condition.

H. Submit final Project documentation as required by the Contract Documents.

END OF SECTION

SECTION 02001

UTILITY TERMINATION / UTILITY PROTECTION

PART 1 – GENERAL

1.01 WORK SPECIFIED

A. Identification of all utility services within the Property directly or indirectly affected by the Work including, but not limited to, potable water, fire protection water, electric, natural gas, telecommunication, sanitary and storm sewer, groundwater conveyance piping, groundwater and non-aqueous phase liquid (NAPL) recovery wells, and groundwater monitoring wells.

B. Termination, in accordance with requirements, provisions, and notifications to the appropriate utility service providers, of potable and fire protection water, electric, natural gas, and telecommunication services that previously or currently serve the Site. As appropriate, physical service terminations shall be made within the Property and as close to the Property line as possible, unless otherwise specifically directed by utility service provider and confirmed by CM.

C. Closure of sanitary system infrastructure at the interface with the existing building floor surface.

D. Maintenance and protection of the existing sanitary/stormwater system infrastructure that is located below the floor surface within the Contract Work Area or at grade in other portions of the Property. Measures to protect this infrastructure from receiving debris shall also be implemented, including installation of temporary roof drain plugs within roof drain slab penetrations.

E. Protection of groundwater monitoring wells, recovery wells, and associated infrastructure within the Property and any other utility services designated to remain in-place (e.g., utilities serving the Wastewater Treatment Plant [WWTP] and recovery well system).

F. Preparation of any required applications (for review by Owner and CM prior to submittal) and payment of applicable fees.

1.02 SUBMITTALS

A. Prepare and submit a Utility Management Plan to describe activities/methods associated with the protection and/or termination of all utility services within the Property or that may be encountered or potentially affected by the Work. At a minimum, the submittal shall include:

1. Information specific to each utility service that describes the location of the utility; the anticipated limits of protection; provisions for alternative utility services as needed; procedures, notifications, coordination with service providers, products, materials for protection, and schedule. The submittal shall incorporate specific requirements identified by the utility service providers as well as related components of the Work.

2. Methods to be used to verify, prior to commencing Work, that all utility services (both above-grade and underground) to and within the Contract Work Area have been terminated, de-energized, etc. in accordance with the requirements of the Town of Fort Edward, Washington County Sewer District, other utility providers, and the Owner.

3. Measures to protect utility services within the Property that are designated to remain in-place for the duration of the Project.

B. Provide written documentation from the utility service providers that all utility services have been terminated, as necessary, to implement the Project.

PART 2 – PRODUCTS

A. Products proposed to be used for temporary utility protection/plugging and final utility terminations (e.g., flowable fill, grout) shall be submitted to the CM for prior review and approval.

PART 3 – EXECUTION

3.01 GENERAL

A. Contractor must notify utility service providers (and any other private organization [Dig Safely New York]) at least 72 hours prior to commencing Work activities. Contractor shall document that such notification has occurred by completing and submitting an Intrusive Fieldwork Permit (Section 00520 [Appendix D – HASP]) for Owner approval prior to initiating Work activities.

B. Contractor shall communicate with each utility service provider and CM to fully identify specific methods, permit requirements, notifications, timing, etc. associated with each utility service termination. Utility service providers include but may not be limited to National Grid (electric, natural gas), Verizon (telecommunications), and the Town of Fort Edward (domestic and fire protection water).

C. Contractor shall not interfere with, or cause damage to any services not designated for termination. Protection of utilities shall be performed in a manner prescribed by the utility company and CM.

D. Owner is not responsible for any delays resulting from required coordination efforts and/or additional efforts required to terminate the utility service connections.

3.02 WATER SERVICE

A. Contractor shall coordinate with the Town of Fort Edward regarding termination of water services.

B. The main water service to the Site originates from the water main beneath Broadway through a subgrade connection on the west side of Broadway and into the south side of the Building 24 (Pump House). The main water service is currently shut off via valve(s) closure within the water line vault located south of the guard house. It is anticipated that the valve(s) can be re-opened and the water supply will be available for Contractor use for dust suppression; therefore, Contractor shall sequence Work activities to maintain this supply for the majority of

demolition activities. Contractor is responsible for providing and maintaining heat to Building 24, as necessary, to protect the water service infrastructure while in use. If the Contractor elects to use the fire hydrants located around the building(s) during demolition, Contractor shall request such use from the CM, coordinate such use with GE, re-activate the existing fire pump within Building 24, and properly disconnect the sprinkler lines that enter the building(s) prior to demolition. If the on-Site water supply is not available for Contractor use, Contractor must provide water for use during demolition, which may require coordination with the Town of Fort Edward.

C. The final termination of water service to the Site by closing an existing valve(s) is not acceptable, unless approved by the Town of Fort Edward. Contractor shall assume that the termination of the water supply will occur within the Property and will include identification of the water line, excavation to appropriate depth, de-activation of the water supply using the existing shut-off valve(s), cutting and capping of the existing line, placement of flowable fill material to a height of 1 foot above the top of the water line, and backfill using the existing material. Any excess material should be spread around the excavation area.

D. A secondary water service feeds the WWTP, originating from Park Avenue on the western portion of the Property. Contractor shall take all necessary precautions to protect and maintain this service throughout the duration of the Project.

3.03 SANITARY / STORM SEWER SYSTEM

A. Contractor shall disassemble all roof drains at their interface with the existing building slabs and temporarily plug these openings to protect this infrastructure from receiving demolition debris. Following demolition, as part of Project Restoration activities (Section 02007), roof drain slab penetrations shall be converted to slab surface drains by installing MIFAB Series R1100-G lacquered cast iron roof drains (or approved equal), as shown on Contract Drawings. Note that due to the close proximity to structural steel columns, Contractor shall implement controls to protect the roof drain infrastructure from damage during demolition and column removal activities.

B. Contractor shall terminate and permanently plug sanitary or other piping connections (excluding roof drain slab penetrations) at their interface with the existing building slabs. Plugging shall be performed by installing a compression type mechanical plug (or other approved means to retain subsequent placement of non-shrink grout) followed by placement of non-shrink grout to a level flush with the building floor surface or subgrade surface.

C. All accessible sewer structures (e.g., manhole covers, catch basin grates, and frames) within the Property shall be protected from heavy equipment loads, increased traffic flow, or other adverse effects of the Work. Contractor shall organize its activities to avoid these features to the extent possible. In addition, Contractor shall install measures to prevent the discharge of debris or other materials from entering the features via direct discharge, rainfall or snowmelt runoff.

3.04 NATURAL GAS SERVICE

A. Owner has previously coordinated gas service shut off with the utility service provider. However, Contractor is required to coordinate with the utility service provider and Owner to verify that the gas service is properly terminated, cut, and capped prior to demolition, and provide documentation from the utility service provider to that effect.

B. A secondary natural gas service feeds the WWTP, originating from Park Avenue, directly east of the EQ Basin and running north to the WWTP. Contractor shall take all necessary precautions to protect and maintain this service throughout the duration of the Project.

3.05 ELECTRIC / TELECOMMUNICATION SERVICE

A. Owner has de-energized electrical service to the Contract Work Area. Contractor shall confirm and document that all electrical services within the Contract Work Area have been de-energized through independent testing and inspection by a licensed electrician. Documentation of the independent testing and inspection performed by a licensed electrician shall be provided to CM.

B. Contractor shall coordinate with Verizon regarding termination of telecommunication services, or verification of previous termination and provide documentation to Owner and CM.

C. Electric service manholes/vaults within the Contract Work Area shall be emptied of their contents to the satisfaction of Owner. Cable sheathing may contain asbestos within access vault areas requiring abatement. All de-energized electrical manhole/vault covers and frames within the Contract Work Area shall be decommissioned in place, per the requirements for pit closure described herein (Section 02007 – Project Restoration).

D. Any relocation of electrical and/or telecommunication services (e.g., poles, wiring) shall be coordinated with the service providers.

E. Contractor shall take all necessary precautions to protect and maintain the electrical services and infrastructure that feed the WWTP, Building 30 (Hazardous Waste Storage Building), and the recovery well system. These services originate from Park Avenue: directly east of the EQ Basin, running north to the WWTP; and from the transfer building on the south side of the parking lot, running north to the fence line and west to Building 30, as identified on the Contract Drawings.

3.06 COMPRESSED AIR

A. Contractor shall deactivate the compressed air system within the buildings. Contractor shall confirm that electric service to the system has been terminated. Residual pressure and potential stored energy present in the system shall be relieved. Compressed air lines shall be disassembled and removed and compressed air system components shall be removed.

3.07 PROTECTION OF EXISTING MONITORING AND RECOVERY WELLS

A. Contractor shall identify and protect groundwater monitoring and recovery wells and related infrastructure located within the Property. These features are identified on the Contract Drawings; however, this information should not be relied upon as current, complete or accurate and is provided for informational purposes only.

B. Should Project activities result in damage to any part of a monitoring well, Contractor shall repair or replace the damaged component to the satisfaction of the Owner and at Contractor's sole expense.

END OF SECTION

SECTION 02002

UNIVERSAL WASTE / LIQUID WASTE REMOVAL

PART 1– GENERAL

1.01 WORK SPECIFIED

A. The identification, planning, removal, segregation, processing, containerization, and management of all Universal Wastes and Liquid Wastes located within the Contract Work Area.

B. Coordination with Owner regarding characterization of Wastes to support on-Site or off-Site disposition.

1.02 DEFINITIONS

A. Universal Wastes – collectively means the items that are listed in this specification, including but not limited to hydraulic fluids, oils, light bulbs, lamps, ballasts, capacitors, batteries, lead-containing pipe joint seals, freon and similar refrigerants used in air conditioning units, and potential mercury-containing equipment. These items may include Hazardous Substances, Hazardous Wastes, or Universal Wastes as defined in Section 02006.

B. Liquid Wastes – includes water within piping, tanks, pits, and sumps; decontamination/equipment cleaning fluids; or other aqueous phase wastes encountered during implementation of the Work that are not otherwise defined as Universal Waste. Liquid wastes also include high-water-content solids, sediments, sludges and other residuals that are encountered during the Project. These items may include Hazardous Substances or Hazardous Wastes as defined in Section 02006.

1.03 SUBMITTALS

A. A comprehensive summary and itemized list of Universal Wastes based on the Contractor's independent inspection of the Contract Work Area, including, but not limited to, the type, location, and quantity of Universal Wastes.

B. Itemized list of Liquid Wastes identified within the Contract Work Area and/or expected to be encountered/generated during performance of the Work.

C. Proposed location and construction details of temporary staging areas for Universal Wastes and Liquid Waste prior to its on-Site or off-Site disposal. Staging areas shall comply with applicable requirements for hazardous materials.

D. An Oils/Liquids Removal Tracking Form to be used during implementation of the Work. The form shall include the following information:

1. Equipment Description
2. Equipment ID
3. Equipment dimensions
4. Container #
5. Date
6. Building
7. Manufacturer
8. Serial No.; Model No.
9. Liquid Type

PART 2– PRODUCTS

A. Containers used within the Site for storage and disposal of Universal Wastes and Liquid Wastes shall be provided by the Contractor. All containers shall be United States Department of Transportation (USDOT)-approved, new, and in good condition. Container material and size shall be selected in consideration of material type and quantity.

PART 3 – EXECUTION

3.01 GENERAL

A. Owner has removed Universal Wastes throughout the Contract Work Area in anticipation of demolition activities; however, not all Universal Wastes were removed. Contractor is responsible for the removal of all remaining environmental and/or regulated materials that are visible within the Contract Work Area at the time of Contract execution.

B. To assist Contractor in its identification of remaining Universal Wastes and Liquid Wastes, Owner has identified the following items that will require removal and disposal as part of this Section. This information should not be construed as a comprehensive list of remaining items and in no way relieves Contractor of its obligation to perform a comprehensive inventory/assessment.

1. Oils and fluids within large CAT generator behind Building 40. Results from oil samples collected were non-detect for PCBs.
2. Oils and fluids within any remaining transformers located in the interior and on the exterior of Building 40 (electrical high yard). Contractor will be required to inspect each unit and drain oils/fluids from each reservoir for sample collection and analysis by Contractor prior to oil/fluid disposal by Contractor and transformer disposal by Disposition Contractor.
3. Oils and fluids within a currently active power load center located within Building 40. PCB concentrations of oils/fluids is unknown and will require sample collection (by Contractor) following oil/fluid draining and prior to Liquid Waste and load center disposition.
4. Residual oils that may be present within two large transformers located within Building 40 Shielded Test Cell area.
5. Oils within the fire water pumps in Building 24 (Pump House) and second Pump House located south of Building 24, which were not previously drained to provide Contractor the option of re-activating the fire loop system for use during demolition for dust suppression. Results from oil samples collected were non-TSCA, low-level PCB-containing.

6. Exterior lighting within the currently active electrical high yard on the exterior of Building 40.

C. Universal Wastes and Liquid Wastes shall be identified by qualified and experienced Contractor personnel.

D. Contractor shall verify existing conditions, including, but not limited to, the type, location, quantity, and condition of the Universal Wastes and Liquid Wastes located within the buildings and structures within the Contract Work Area.

E. Contractor shall containerize and relocate Universal Wastes and Liquid Wastes to a designated temporary storage area located within the Site. Contractor shall not relocate or remove any equipment from which oils/liquids were drained unless authorized in advance by CM.

F. Contractor shall remove Universal Wastes and Liquid Wastes in a manner that includes, but is not limited to:

1. Ensuring the system or device is de-energized and depressurized.

2. Identifying equipment access points in which to drain or remove oils from the system or device.

3. Implementation of spill control and countermeasures around areas where removal activities are planned.

G. Contractor shall collect representative sample(s) of liquid from the equipment to be drained or from the storage container once the equipment has been drained. Following receipt of analytical results, Contractor shall receive authorization from Owner prior to releasing sampled Wastes for disposal.

H. All documentation shall be maintained in a manner that allows tracking of all Wastes, including the origin and location of equipment and disposal containers from which individual liquid or oil samples were taken and for which analytical results are received.

3.02 NON-AQUEOUS PHASE LIQUIDS (INCLUDING HYDRAULIC FLUID AND OIL)

A. Contractor is responsible for identifying, removing, collecting, segregating, processing, and containerizing liquids and/or products, fluids, oils, and residual oils that may be present within each individual equipment reservoir. Certain equipment may need to be dismantled to access free liquids/products, fluids, and oils. Collection, containerization, and management shall proceed in compliance with all applicable Laws.

B. Different types of free liquids/products, fluids, or oils shall be managed separately in separate containers and shall not be mixed. Liquid/product, fluid, or oils removed from each reservoir or equipment shall be separately containerized, and the container shall be labeled to correspond to the reservoir/equipment from which it was removed. Repeat draining activities may be needed to fully drain equipment. Following removal from reservoir(s), absorbent materials (e.g., Speedi-Dri®) shall be placed within the former reservoir(s) to absorb any residual liquid that may be present and included in the equipment disposal.

C. After removal is complete, each reservoir or equipment/pipe from which liquid/product, fluid, or oil is removed shall be properly labeled by Contractor.

D. Contractor shall exercise caution and provide appropriate spill containment when inspecting and/or removing drains, traps, or other low points within equipment piping systems or reservoirs to prevent the risk for, and capture any potential spillage, leakage, or personal exposure to constituents. It is possible that chemicals, cleaning agents, hazardous substances, hydraulic fluids, oils, or other constituents have collected in low spots. If Contractor causes a spill or release of liquid/products, fluids, or oils, Contractor is responsible for any and all cleanup and response measures that may be required as a result of such releases at Contractor's sole expense. Impacted materials that are not identified for removal as part of this Project shall be disposed of at Contractor's sole expense.

E. All removed product/liquid, fluids, and oils shall be documented on an Oils/Liquids Removal Tracking Form.

F. Disposal of equipment carcasses free of any liquid shall proceed only after analytical testing (by Contractor) of the product/liquid, fluid, or oil removed from each carcass, and the CM's review and approval. Equipment carcasses that are of suitable size shall be placed in USDOT-approved containers or secured (with CM concurrence) to a shipping pallet. At CM's direction, larger equipment carcasses shall be removed and disposed with demolition waste during demolition activities.

3.03 FLUORESCENT LIGHT BULBS AND HIGH-INTENSITY DISCHARGE LAMPS

A. Each fluorescent light bulb and other lamp shall be carefully removed and/or collected to prevent breakage, segregated by type, and containerized. For purposes of this Project, a "lamp" shall be defined as any lamp that, whether intact or if broken, could be classified as a Hazardous Waste for any reason (e.g., because it has a potential to exceed the toxicity characteristics for mercury and/or lead), and shall include, but not be limited to, high-intensity discharge (HID), neon, mercury vapor, high-pressure sodium, and metal halide lamps.

B. The following containers and handling methods shall be used to pack the fluorescent light bulbs and lamps:

1. Whole bulbs/lamps shall be packed in cardboard boxes, fiber drums, steel drums, and/or plastic drums, with the opening of the containers secured prior to relocation, movement, and transportation off-Site to prevent breakage. Such containers and packages must remain closed when full and must lack evidence of leakage, spillage, or damage that could cause leakage under reasonably foreseeable conditions.

2. Waste from crushed or broken bulbs/lamps shall be collected and packed in USDOT-approved metal drums or USDOT-equivalent plastic drums, with the top of the containers adequately secured. Containers must be closed, structurally sound, and must lack evidence of leakage, spillage, or damage that could cause a release of mercury or other hazardous constituents to the environment under reasonable foreseeable conditions.

C. Contractor shall not crush fluorescent bulbs and lamps.

D. The fluorescent bulbs and lamps (whether intact or broken/smashed) shall be managed as a Resource Conservation and Recovery Act (RCRA) Hazardous Waste due to assumed mercury toxicity, and in compliance with other applicable Laws.

3.04 LIGHT BALLASTS AND CAPACITORS

A. Each ballast and small capacitor shall be removed/collected and segregated into one of the following two groups: PCB-containing and No PCBs. Contractor shall assume that the ballasts/capacitors contain PCBs in accordance with 40 CFR 761.2, unless clearly labeled “No PCBs”.

B. The ballasts and small capacitors shall be placed into USDOT-approved containers for disposal.

C. Leaking ballasts/capacitors and material that comes in contact with leaking material (e.g., oil or potting material contained within the ballasts) shall be placed into separate USDOT-approved metal drums. If oil or potting material has leaked from the ballast/capacitor onto the light fixture, Contractor shall also containerize the light fixture under this Section.

3.05 MERCURY-CONTAINING DEVICES

A. This section applies to all mercury-containing equipment including, without limitation, thermostats, thermometers, switches, gauges, and other appurtenances/devices containing elemental mercury, but excluding batteries and lamps.

B. Prior to removal, every piece of equipment shall be visually inspected by Contractor for potential presence of mercury-containing devices.

C. If the mercury-containing device is damaged or leaking, Contractor shall remove all elemental mercury and mercury buildup from impacted surfaces and shall containerize these materials into USDOT-approved containers.

D. Mercury-containing equipment shall be managed as a RCRA Hazardous Waste due to assumed mercury toxicity, and in compliance with other applicable Laws.

3.06 BATTERIES

A. Contractor shall place all batteries in sealable, non-leaking, USDOT-approved containers compatible with the contents of the batteries. Contractor shall also segregate all batteries by type (e.g., lead-acid, nickel-cadmium). Lead-acid batteries shall not be handled or managed in the same containers with other battery types. Contractor shall separate leaking batteries into separate containers from non-leaking batteries.

B. Contractor shall handle and manage all batteries in a manner that prevents releases of any waste (e.g., electrolyte) to the environment, or causes and/or produces any rupture of the battery case.

3.07 SMOKE DETECTORS

A. Contractor shall inspect all smoke detectors to determine if the detectors have the potential to contain radioactive material (Americium 241). Contractor shall remove these ionization-based smoke detectors and place in properly labeled, USDOT-approved containers for management as low-level radioactive waste in accordance with all applicable Laws. Batteries, if any, shall be removed from the smoke detectors and segregated for management in accordance with Section 3.06.

3.08 EXIT SIGNS

A. Contractor shall inspect all EXIT signs to determine if the signs have the potential to contain radioactive material (tritium gas). If the sign has a totally enclosed void space/chamber that could contain gas, such sign shall be assumed to contain radioactive material, unless otherwise specified on a sign label.

B. Contractor shall remove all EXIT signs that have the potential to contain radioactive gas and place these signs in properly labeled, USDOT-approved containers.

C. The EXIT signs that have the potential to contain radioactive gas shall be managed as a low-level radioactive waste due to the assumed presence of radioactive material (tritium) in accordance with all applicable Laws.

3.09 CONTAINERIZED CHEMICALS

A. Containerized chemicals or liquids encountered by Contractor shall be collected. Contractor shall exercise all reasonable and due caution when handling containerized chemicals, as their contents may not necessarily correspond to the label on the container or may otherwise be unknown.

3.10 BIO-HAZARDOUS SUBSTANCES

A. Contractor shall be aware that biological hazards (including, without limitation, bird droppings, animal carcasses, mold, mushrooms) are present throughout the Contract Work Area, including on horizontal and vertical surfaces, existing equipment, interior ductwork openings, mechanical equipment, and miscellaneous crevasses/openings.

B. The disturbance or dislocation of pigeon/bird feces or contaminated debris may cause particulate containing *Histoplasma Capsulatum* to be released into the atmosphere, thereby creating a potential health hazard to workers or others entering the Site. Contractor shall be responsible for providing personal protective equipment (PPE) required for performance of Work that disturbs these substances and shall include details related to worker protection in the Contractor's Health and Safety Plan.

3.11 FIRE EXTINGUISHERS

A. Contractor shall collect, discharge in a CM-approved location, and remove the top spray assembly from all fire extinguishers prior to staging for off-Site disposal.

3.12 NON-OIL AND NON-ASBESTOS-CONTAINING CIRCUIT BREAKERS AND SWITCHES

A. All non-oil and non-asbestos-containing breakers and switches shall be removed and placed into USDOT-approved containers.

3.13 REFRIGERANTS

A. Chlorofluorocarbons and other refrigerants shall be properly evacuated and managed for disposal by personnel certified in accordance with 40 CFR 82.161 and applicable state and local Regulations.

3.14 LIQUID WASTES / WASTEWATER

A. Piping, tanks, vessels, etc. (collectively, vessels) within the Contract Work Area may contain Liquid Wastes that require removal as part of the Project. These liquids may include solids and other contaminants, and may be under system pressure. Prior to removal of these vessels, Contractor shall conduct a pre-draining assessment to establish the locations, areas, and sections of the vessels to be drained, and the corresponding volume and characteristics of the water contained within the vessel. Contractor shall confirm that the portion of the vessel subject to draining is inactive and no longer in operation, isolate the portion of the vessel, relieve internal water pressure and potential stored energy in a controlled manner, and drain the vessel into appropriate containers using gravity and/or other extraction/pumping/vacuum methods. Multiple drainage points may be needed to fully remove accumulated liquids.

B. Disposal of wastewater shall be as specified in Specification 02006.

C. High-water-content residuals within piping, tanks, pits, or sumps shall be removed and placed in appropriately sized containers. At CM's direction, Contractor shall remove the liquid-phase portion of the containerized residuals that meet the requirements of 3.14B. The remaining materials shall be managed for off-Site disposal per the applicable Contract specifications.

3.15 LEAD SEALS (PIPE JOINTS)

A. Certain drainage piping within the Contract Work Area may contain lead-based pipe joint seals; Contractor shall inspect piping for these seals. If present on TSCA-regulated metal (e.g., painted metal in the Main Manufacturing Building), Contractor shall remove the lead-based joint seal prior to building demolition activities and placed in containers provided by Contractor. Seal removal shall be conducted over plastic sheeting barrier and inspected by the CM prior to disposing of drain pipe. If present on Recyclable Metal (e.g., unpainted metal in the Main Manufacturing Building; Building 40 metal), Contractor is not required to remove the seal prior to salvage.

END OF SECTION

SECTION 02003

ABATEMENT OF ASBESTOS-CONTAINING MATERIALS

PART 1 – GENERAL

1.01 WORK SPECIFIED

A. The abatement, segregation, and containerization of all asbestos-containing materials (ACM) present within the Contract Work Area and associated with the buildings subject to demolition.

B. ACM abatement shall comply with all requirements under New York State Department of Labor (NYSDOL) Part 56 of Title 12 (12 NYCRR Part 56, or ICR 56), variances to ICR 56 obtained by Owner, New York Labor Laws, National Emission Standards for Hazardous Air Pollutants (NESHAP), Occupational Safety and Health Administration (OSHA) regulations, Town of Fort Edward Codes, and all other applicable local, state, federal, and Project codes, rules, and Regulations.

1.02 DEFINITIONS

A. “Airlock” shall mean a structure consisting of 2 curtained doorways separated by a distance of at least 3 feet with plastic curtains weighted so as to assure closure after passage of one and before opening of the second. The curtained doorways shall consist of minimum 3 overlapping sheets of plastic secured at the top and at alternate sides.

B. “Asbestos” shall mean fibrous chrysotile, amosite, crocidolite, tremolite, anthophyllite, and actinolite. The term "asbestos" shall include all asbestos materials and all asbestos-contaminated materials such as disposable protective equipment and plastic used for work zone isolation.

C. “Dry” shall mean having no apparent wetness visually or tactually.

D. “Friable” shall mean a condition such that, when dry, a material is capable of being crumbled, pulverized, powered or crushed by hand pressure.

E. “HEPA filter” shall mean High Efficiency Particulate Air (HEPA) filter, capable of trapping and retaining 99.97 percent of asbestos fibers greater than 0.3 microns (µm) equivalent aerodynamic diameter.

F. “Intact” shall mean asbestos material that has not crumbled, been pulverized, or otherwise been damaged or disturbed, and the material’s matrix has not noticeably deteriorated.

G. “Isolation Barrier” shall mean the plastic-covered floors, walls, and ceilings of a work zone which create the work zone boundary and isolate this area from its surroundings.

H. “Non-Friable” shall mean a condition such that, when dry, a material is not capable of being crumbled, pulverized, powered or crushed by hand pressure.

I. “Non-Friable Organically Bound Materials” shall mean non-friable asbestos materials embedded in flexible to rigid asphalt or vinyl matrices including but not limited to flooring materials, adhesives, mastics, asphalt shingles, roofing materials and caulks.

J. “Personnel Decontamination Area” shall mean an area designated for controlled passage of all persons, consisting of a clean room, shower room, and an equipment (dirty) room separated from each other and from the work zone by airlocks.

K. “Project Monitor” shall mean a person unaffiliated with the Contractor (contracted by Owner) who oversees the performance of ACM abatement activities for the purpose of compliance with all applicable Regulations. The Project Monitor possess all required certifications.

L. “Wet” or “Wetted” shall mean moistened with a wetting agent (water or amended water) such that the material or surface is not friable.

M. “Work Zone” shall refer to the area within the isolation barrier (work zone boundary) in which asbestos removal work occurs.

1.03 QUALIFICATIONS

A. Contractor performing the ACM abatement work of this Section shall be licensed to perform ACM abatement operations in New York State.

B. All asbestos abatement workers shall possess current Asbestos Worker and/or Asbestos Supervisor certification certificates as issued by the New York State Department of Health (NYSDOH).

1.04 SUBMITTALS

A. An ACM Abatement Plan that presents: (i) approach for abatement activities based on all available information, project-specific variances, and all applicable federal, state, and local Regulations, standards, and codes; (ii) Contractor’s equipment, materials, and methods; (iii) control systems/methods for prevention of visible emissions during removal of non-structural materials; (iv) methods for on-Site management of ACM and ACM-containing materials removed as part of the Work; and (v) methods for protection of structures and utilities. The ACM Abatement Plan shall also include figures presenting all regulated ACM abatement Work Zones, ACM abatement support areas, equipment and personnel decontamination areas, and the anticipated size and number of disposal containers to be provided by Disposition Contractor. The Contractor may present alternative methods to the abatement processes described herein, for review by CM. Any such modifications or substitutions to methods, procedures, or design shall comply with applicable Laws. Contractor shall submit the proposed modification or substitution (including proposed Project-specific variances) for review and approval by CM prior to submission to regulatory agencies for approval.

B. An ACM Decontamination Plan that identifies the procedures and methods that will be used to decontaminate Project-related equipment. The plan must address the generation, collection, and handling of solids, liquids, personal protective equipment (PPE), and other related Wastes generated by decontamination activities. In addition, the ACM Decontamination Plan shall address methods for personnel decontamination. Equipment and personnel decontamination activities shall be performed in an area designated by Contractor and approved by CM. Liquids generated by decontamination efforts shall be managed as specified in Specification 02006. Disposable equipment, materials, and other solid Waste generated by decontamination shall be containerized for off-Site disposal by the Disposition Contractor.

C. Contractor's written ACM Respiratory Protection Program that includes: (i) a statement of Respiratory Protection Training; (ii) current copies of qualitative and/or quantitative respirator fit test results for all employees to be used on the Project. Respirator fit tests must be performed using respirator brands worn by Contractor's employees; and (iii) a copy of the current medical certificates for all employees at the Site. The certificates must have the name of the medical center, name of attending physician, and signature of attending physician, and indication that the individual is physically capable of performing ACM abatement work without restrictions.

D. The following documents:

1. Manufacturer's certification that vacuums, ventilation equipment, and other equipment required to contain airborne fibers conform to American National Standards Institute (ANSI) Publication Z9.2-79, and certification that all respirators to be used are National Institute for Occupational Safety and Health (NIOSH)-approved.

2. A copy of the notification forms prepared for the NYSDOL and copy of the certified check associated with the notification fee, as determined by the New York Labor Law Article 30 § 904, Notice and Recordkeeping Requirements.

3. A copy of the NESHAP Notification of an Asbestos Abatement Project in accordance with 40 CFR Part 61.145(b).

E. Contractor shall submit the following information during and/or following ACM abatement activities:

1. Copies of daily work Site entry logbooks with information on worker and visitor access.

2. Written logs documenting the daily quantity and type of ACM removed and post-work visual inspections conducted by Contractor. If ACM is encountered that was not identified in the Contract Documents and was not visible at the time of Contract execution, Contractor shall immediately notify CM. Additional ACM shall not be removed without prior written authorization by CM.

3. Contractor shall provide complete documentation of the OSHA-required monitoring of on-Site personnel that was conducted during the abatement activities. This information will document the worker exposure during work activities associated with the Project.

4. Any reported deviations from the ACM Abatement Plan and/or corrective actions taken during the work.

1.05 EXISTING CONDITIONS

A. Utilities are currently inactive within the buildings subject to demolition. See Section 02001 (Utility Termination / Utility Protection) for information related to on-Site water availability for dust suppression. Contractor is responsible for sequencing work and providing temporary utilities for completion of the Work described herein including for the purpose of conducting Project third-party air sampling. Utility services for Owner air sampling shall be located in relatively close proximity to all regulated Work areas. If generators are used, exhaust shall be vented so as not to interfere with air sample collection.

B. Owner has removed identified ACMs throughout the Site in anticipation of Project activities; however, not all ACMs were removed. Contractor is responsible for verifying all existing conditions, including, but not limited to: the type, condition, location, and quantity of ACM currently located within the Contract Work Area. Contractor is responsible for the removal of all remaining ACMs that are visible within the Contract Work Area at the time of Contract execution.

C. To assist Contractor in its identification of remaining ACMs, Owner has identified the following items that will require abatement prior to initiating building demolition activities (see Contract Drawings). This information should not be construed as a comprehensive list or accurate quantity of remaining items and in no way relieves Contractor of its obligation to perform an independent assessment of remaining ACMs.

1. Building 22 – Non-friable black roof flashing located on the roof perimeter and at roof penetration locations. Estimated Quantity: 800 SF
2. Building 24 –
    a. Non-friable black rolled asphalt roofing. Estimated Quantity: 1,225 SF
    b. Non-friable gray exterior window caulking. Estimated Quantity: 50 LF
    c. Internal electrical components associated with safety switches, manual shut offs, breaker panels, sub stations, electrical boxes, and wiring. Material has not been sampled as electrical is currently active; assumed ACM until laboratory analysis can confirm or deny the presence of asbestos. Estimated Quantity: 54 LF (including material in Building 24, Building 34, and Former Guard Shack).
    d. Pipe flange gaskets. Material has not been sampled as piping has not been dismantled; assumed ACM until laboratory analysis can confirm or deny the presence of asbestos. Contractor shall inspect all pipe flanges to determine the presence of asbestos. Estimated Quantity: 115 Each (including material in Building 24 and Building 34).
3. Building 27 (Above Receiving, Receiving Dock, Fabrication, PCO Cover Assembly) –
    a. Non-friable black roof flashing and black roof flashing cement located on the roof perimeter and at roof penetration locations. Estimated Quantity: 1,600 SF
    b. Non-friable black HVAC duct sealant located on HVAC ductwork (not sampled; assumed ACM based on testing of similar material on adjacent roof). Estimated Quantity: 300 SF
4. Building 27 (Above Assembly, Between Assembly and Receiving/Storage, Center of North End of Roof) – Non-friable black HVAC duct sealant located on HVAC ductwork (not sampled; assumed ACM based on testing of similar material on adjacent roof). Estimated Quantity: 10 SF
5. Building 27 (Above EMF Treat; North Perimeter Edge; Penetrations on Western Side of Roof) – Non-friable black roof flashing and black roof flashing cement located on the roof perimeter and at roof penetration locations. Estimated Quantity: 240 SF
6. Building 34 (Pump Building) –

a. Non-friable black roof flashing and black roof flashing cement located on the roof perimeter. Estimated Quantity: 160 SF

b. Internal electrical components associated with safety switches, manual shut offs, breaker panels, sub stations, electrical boxes, and wiring. Material has not been sampled as electrical is currently active; assumed ACM until laboratory analysis can confirm or deny the presence of asbestos. See 1.05(C)(2)(c) for estimated quantity.

c. Pipe flange gaskets. Material has not been sampled as piping has not been dismantled; assumed ACM until laboratory analysis can confirm or deny the presence of asbestos. Contractor shall inspect all pipe flanges to determine the presence of asbestos. See 1.05(C)(2)(d) for estimated quantity.

7. Building 40 (Above Storage and Maintenance Shop, Above Currently Active Electrical Equipment) –

   a. Non-friable black roof flashing and black roof flashing cement located on the roof perimeter and at roof penetration locations. Estimated Quantity: 225 SF

   b. Non-friable black roof flashing located on the roof perimeter and at roof penetration locations. Estimated Quantity: 260 SF

8. Building 40 (Above North Half of Building) – Non-friable black roof flashing cement located on the roof perimeter and at roof penetration locations. Estimated Quantity: 1,850 SF

9. Building 40 – Internal electrical components throughout Building 40 associated with safety switches, manual shut offs, breaker panels, sub stations, electrical boxes, and wiring. Material has not been sampled as electrical is currently active; assumed ACM until laboratory analysis can confirm or deny the presence of asbestos. Estimated Quantity: 314 Each

10. Building 40 – Pipe flange gaskets throughout Building 40. Material has not been sampled as piping has not been dismantled; assumed ACM until laboratory analysis can confirm or deny the presence of asbestos. Contractor shall inspect all pipe flanges to determine the presence of asbestos. Estimated Quantity: 232 Each

11. Building 40 – Non-friable white exterior door caulking located on metal doors throughout the building. Estimated Quantity: 193 LF

12. Building 40 – Concrete block exterior wall located in the northwest corner of Building 40 (see Contract Drawings) contains vermiculite and shall be managed as ACM. Estimated Quantity: 525 SF

13. Former Guard Shack –

    a. Non-friable black rolled asphalt roofing. Estimated Quantity: 150 SF

    b. Internal electrical components associated with safety switches, manual shut offs, breaker panels, sub stations, electrical boxes, and wiring. Material has not been sampled as electrical is currently active; assumed ACM until laboratory analysis can confirm or deny the presence of asbestos. See 1.05(C)(2)(c) for estimated quantity.

14. North Sanitary Lift Station - Non-friable black roof flashing and black roof flashing cement located on the roof perimeter. Estimated Quantity: 100 SF

D. The Contract Documents include Variance Petitions (Section 00520 – Appendix I [SIP Appendix E]) that were submitted to and approved by the NYSDOL, granting removal on non-friable ACM roofing utilizing controlled demolition in certain building roofing systems at the Site (i.e., Buildings 23, 29, and 31). A description of the asbestos present within those roofing systems is as follows:

1. Building 23 –

   a. Non-friable black HVAC duct sealant located on HVAC ductwork (not sampled; assumed ACM based on testing of similar material on adjacent roof). Estimated Quantity: 1,000 SF

   b. Non-friable black coating on metal deck. Estimated Quantity: 5,200 SF

   c. Non-friable black roof flashing and flashing cement. Estimated Quantity: 1,000 SF

   d. Non-friable black built-up roofing. Estimated Quantity: 59,520 SF

2. Building 29 – Non-friable black roof flashing cement located at roof patches and seams throughout the main roof field. Estimated Quantity: 8,296 SF

3. Building 31 – Non-friable black rubber roof seam sealant located throughout the main roof field. Estimated Quantity: 2,264 SF

The Contractor shall review the Variance Petitions and subsequent approval and incorporate into its ACM Abatement Plan. If Contractor elects, proposed revisions to the Variance Petition must be submitted with its bid proposal to provide adequate time for Owner's consideration.

1.06 PROJECT AND AIR MONITORING MONITOR

A. Owner will perform monitoring of Contractor work practices and performance, inspection of the Work, and air sampling and analysis for each phase of the ACM removal activities. Quality control and testing criteria have been established under 3.05 of this Section and will be strictly enforced. Contractor shall provide free and safe access to all work areas at all times and shall provide electric power for the purposes of conducting air sample collection activities as specified in ICR Section 56-6 through 56-9.

PART 2 – PRODUCTS

2.01 GENERAL

A. Contractor shall coordinate with the Disposition Contractor for delivery of United States Department of Transportation (USDOT)-approved containers to accommodate materials generated during ACM removal activities, including ACM, water, paint chips and miscellaneous debris generated prior to and during abatement.

B. Containers shall be lined with two (2) six-mil (0.006 inch thick) pre-formed polyethylene liners, or equivalent. The liners shall also be of sufficient size so that they can be sealed across the top of the load when full. Each container shall be in good condition with no holes or rusted

areas. Containers used for disposal of friable ACM will be hard walls and top, watertight and lockable. Open containers will only be permitted on-Site (i.e., open with canvas cover) for non-friable asbestos materials. While stored on-Site, containers shall be marked with asbestos DANGER labels.

C. All plywood utilized for this work shall be fire retardant/fire-rated.

D. The respirators used shall be selected by the Contractor and shall be supplied and utilized in full compliance with the Regulations. Disposable single-use respirators shall not be allowed.

E. Contractor shall propose the wetting agent and means of dispersal for review and approval by CM and Engineer. Note that surfactants are prohibited from entering the Wastewater Treatment Plant (WWTP); any excess liquids generated during the use of surfactant-containing wetting agents must be separately containerized for off-Site disposal.

F. Bags used for disposal shall be minimum 6 mil in thickness, polyethylene and shall be preprinted with the asbestos DANGER label.

G. Polyethylene sheeting used for isolating the work zone and constructing the decontamination units shall be new, unused, fire retardant and a minimum of 6 mil in thickness.

H. Asbestos DANGER signs and labels shall be as specified in OSHA Title 29 CFR 1926.1101(k), and shall contain the following:

DANGER
CONTAINS ASBESTOS FIBERS
AVOID CREATING DUST
CANCER AND LUNG DISEASE HAZARD

I. The vacuum cleaners used shall employ filters which bear a HEPA rating.

J. Temporary lighting, heating, hot water heating units, ground fault interrupters, and all other equipment on Site shall be UL approved or equal and shall be safe, proper, and sufficient to the purpose intended.

PART 3 – EXECUTION

3.01 REMOVAL OF ASBESTOS-CONTAINING MATERIALS

A. Contractor shall abate, handle and containerize all ACM in accordance with Part 56 of Title 12 of the Codes, Rules, and Regulation of the State of New York and all other applicable Laws as well as the Project-specific Variance Petition approvals.

B. The means and methods employed by the Contractor for the abatement of non-friable organically bound materials shall ensure that the materials remain substantially intact and are not rendered friable.

C. Contractor shall containerize all ACM waste materials that are removed from the buildings as ACM waste (either friable or non-friable) with one of the following additional waste classifications: (1) TSCA-regulated; (2) non-TSCA, low-level PCB-containing; (3) non-regulated (i.e., non-detect for PCBs); (4) RCRA-hazardous; or (5) RCRA/TSCA, as identified

on the Contract Drawings, for disposal (by the Disposition Contractor) at a facility that can accept such materials.

D. Contractor shall erect warning signs around the work space and at every point of potential entry from the outside at least 10 days prior to the start of work. Signs must be in accordance with OSHA standard Title 29 CFR, Part 1926.1101 as well as ICR 56. The warning signs shall be a bright color so that they will be easily noticeable. The size of the sign and the size of the lettering shall conform to OSHA requirements.

E. Contractor shall implement appropriate traffic control measures outlined in Owner-approved Traffic Control Plan (Section 02005) for any asbestos-related work (preparation or otherwise) or any other Project activities performed within, near, or along public roadways.

F. Contractor shall provide OSHA and NESHAPS-required labels for all polyethylene waste bags and all drums utilized to transport ACM waste. Contractor shall provide any other signs, labels, warning and posted instructions that are necessary to protect, inform, and warn federal, state, or local regulatory agents, visitors, and the general public of the hazard from asbestos exposure. These items shall be posted in a prominent and convenient place for the workers, along with a copy of the latest applicable Regulations from OSHA, EPA, NIOSH, and the State of New York.

G. During and following ACM removal activities, Contractor shall containerize and place removed ACM directly into appropriate containers provided by Disposition Contractor for subsequent off-Site transportation and disposal.

H. The following procedures are applicable to the removal of loose and peeling paint located within Regulated Work Areas subject to asbestos abatement. Additionally, miscellaneous dust and debris within the work area shall be collected and containerized along with the loose and peeling paint. The sequence of work within Regulated Work Areas shall be as follows:

   1. Establish Regulated Work Area using caution tape, signs, critical barriers and/or engineering controls.

   2. Remove all loose and peeling paint and visible dust and debris within the regulated work area to the satisfaction of the CM.

   3. Containerize all paint chips, visible dust and debris, and associated debris within USDOT-approved containers.

   4. Debris shall be segregated in a secure area designated by CM, labeled appropriately by Contractor, and sampled by Contractor.

   5. Proceed with installation of containment area construction for ACM abatement activities.

I. Unless otherwise approved by the CM, Contractor shall remove accumulated ACM debris from the work area and place in the approved containers each day. No removed or bagged ACM shall be allowed to be stored within the building. Containers shall be covered appropriately and/or locked at the end of each shift.

J. All ACM waste generated must be removed from the Site within ten days following successful completion of Phase II C for all regulated abatement work areas at the Site.

K. Decontamination methods should include HEPA vacuuming and wet wiping all surfaces such that all visible traces of ACM have been removed as determined by the on-Site asbestos Project Monitor. Any material that becomes contaminated with asbestos as a result of Contractor's acts shall be removed and disposed as ACM at Contractor's sole expense

L. For suspect ACM that is not identified and not in a location that was visible at the Site at the time of Contract execution, Contractor shall immediately notify CM of the location, quantity, and condition of the suspect material prior to the initiation of any further abatement activity in accordance with Section 00700, Part 5.2.

3.02 AIR QUALITY MONITORING

A. Contractor shall be responsible for all personal air monitoring to accurately determine the airborne concentrations of asbestos fibers to which employees may be exposed. Monitoring shall be in accordance with Section 1926.1101 of Subpart D of Part 1926 of OSHA Rules and Regulations.

B. Personal sample results shall be posted in the work area daily.

C. Samples submitted to a laboratory for analysis shall be analyzed and the results shall be available in less than 72 hours after being collected and submitted to CM.

D. The laboratory performing analysis shall be a regular successful participant in the NIOSH Proficiency Analytical Testing (P.A.T.) program and shall hold a current valid laboratory certification for the above analysis issued by the NYSDOH.

E. Persons performing sampling shall hold a current state license or certification where applicable.

F. All sampling and laboratory data, such as sampling volumes and laboratory quality control data, shall be available to the Owner and CM upon request.

G. Owner will perform project monitoring and air sampling and analysis for each phase of the ACM removal activities as specified in ICR 56-4. The Project Monitor will perform monitoring/inspection of Contractor work practices and performance, and inspection of the Contract Work Area. Contractor shall cooperate with the Owner's Project Monitor to provide safe access to all work areas at all times and providing electric power for the purposes of conducting air sample collection and inspection activities.

H. Air sampling and analysis shall be performed by an independent third party contracted by Owner during the following phases of the project in accordance with applicable sections of ICR 56, including:

1. Background
2. Work area preparation
3. Asbestos handling
4. Final cleaning and clearance

I. During removal activities, if air quality regulatory levels related to asbestos abatement are exceeded, Contractor shall take all appropriate measures to reduce airborne asbestos concentrations to below regulatory levels (e.g., wetting, engineering controls).

3.03 LABELING

A. Contractor shall provide and label all containers consistent with the requirements specified in 40 CFR 61 (NESHAP), and 29 CFR 1926.1101 (OSHA). The labeling shall be consistent with all applicable Laws.

3.04 UTILITY SERVICES

A. Employ heavy-duty abrasion-resistant hoses with a pressure rating greater than 1.5 times the maximum pressure of the water distribution system to provide water into each work area and to each decontamination unit.

B. Provide sufficient hot water for the decontamination unit shower(s).

C. Water used for ACM abatement including decontamination water and excess water associated with wetting prior to and during abatement shall be collected and processed through a filtration system. The filtration system must be provided with at least a 5.0-micron particle size filtration capability. A multi-stage filtering system containing a series of several filters with progressively smaller pore sizes shall be used to avoid rapid clogging of the filtering systems by larger particles. Contractor is responsible for providing temporary storage for water used for wetting structures during demolition operations prior to transfer to the on-Site WWTP in accordance with Section 02006.

D. Disposable filter material, PPE, and other solid Waste generated during asbestos abatement and/or water filtration activities shall be combined with the ACM Waste material (either TSCA or non-TSCA, as applicable) for subsequent off-Site disposal by the Disposition Contractor.

E. Water associated with asbestos abatement operations that include the use of amended water (contains a surfactant) including all personnel and waste decontamination wash water shall be filtered as described and containerized for off-Site disposal by Disposition Contractor, unless otherwise directed by CM.

F. All power equipment used inside the work zone shall be individually protected by in-line ground fault interrupters.

G. All used or unused electrical circuits within the work zone shall be shutoff. All circuits that are shut off shall be taped or locked in the off position and labeled with a printed tag which reads as follows:

"TEMPORARILY DISCONNECTED DUE TO ASBESTOS REMOVAL PROJECT
DO NOT ACTIVATE THESE CIRCUITS"

H. Operation of all electrical equipment shall be in compliance with the National Electric Code.

I. If necessary, temporary lighting shall be provided sufficient for clear visibility throughout all work areas including the decontamination units.

J. Protect lamps with guard cages or tempered glass enclosures, where fixtures are exposed to breakage by construction operations. Provide vapor tight fixtures in work area and decontamination units. Provide exterior fixtures where fixtures are exposed to the weather or moisture.

K. Use only grounded extension cords; use "hard-service" cords where exposed to abrasion and traffic. Use single lengths or use waterproof connectors to connect separate lengths of electric cords, if single lengths will not reach areas of work.

L. Provide Type "ABC" dry chemical extinguishers or a combination of several extinguishers of NFPA recommended types for the exposures in each case.

M. An emergency/fire exit shall be maintained in addition to the primary decontamination exit.

3.05 QUALITY CONTROL

A. Contractor shall be responsible for achieving acceptable visual inspection and air clearance sampling for each abatement area as follows:

1. The Project Monitor shall inspect the work area and surrounding areas for clearance using visual and physical methods, prior to the performance of clearance air monitoring.

2. Following a visual inspection, clearance air sampling (if required) will be performed by an independent third party for analysis by Phase Contrast Microscopy (PCM). Work shall be considered acceptable if all samples for a particular work area yield results with maximum total airborne fiber concentrations of <0.01 fibers per cubic centimeter of air (fibers/cc) for each sample collected and analyzed.

END OF SECTION

SECTION 02004

LOOSE PAINT AND DEBRIS REMOVAL

PART 1 – GENERAL

1.01 WORK SPECIFIED

A. The removal, handling, and containerization of dislodged, loose, flaking, peeling, and separated paint and surface debris throughout the Contract Work Area in accordance with all applicable Regulations.

B. Contractor shall assume all painted surfaces subject to demolition contain elevated levels of lead and PCBs. Contractor shall review the available characterization data for each portion of the building and recognize that paint removal activities and management of residuals (removed paint and paint/debris present on adjacent floor surfaces) likely involves management of regulated materials and will require appropriate worker safety precautions, project controls, and Waste management activities.

C. Compliance with all aspects of OSHA 29 CFR 1926.62 “Lead in Construction Regulations” with regards to disturbance of materials when performing the Work.

D. Paint and debris removal shall occur at several times during implementation of the Project, corresponding to the completion of or preparation for various Project phases. At a minimum, cleaning shall occur prior to building demolition, prior to post-demolition restoration activities, and at any time that the CM deems that surface debris is contributing or may be subject to migration via airborne or precipitation mechanisms.

1.02 SUBMITTALS

A. Specific health and safety submittals required by OSHA 29 CFR 1926.62 if not otherwise submitted as required by Section 01350 – Health and Safety.

B. Prepare and submit a Paint and Debris Removal Plan to fully describe the activities related to the removal of loose paint from all materials subject to demolition. Submittal shall comply with applicable OSHA requirements and include at a minimum a detailed description of engineering and work practice controls; the methods, procedures, and equipment to be used for paint removal and management activities; designated areas with the Contract Work Area and sequencing of paint removal areas (considering coordination with other Work, unique aspects of the Site, different disposal requirements for residuals, etc.); and specific exceptions/areas where the requirements of this specification cannot be implemented due to safety concerns or for other considerations, as well as Contractor’s proposed alternate means and methods for paint removal associated with these areas.

PART 2 – PRODUCTS

A. Loose paint, and dust, dirt, debris, and all material that contains loose paint shall be containerized in United States Department of Transportation (USDOT) approved containers for subsequent off-Site disposal by Disposition Contractor.

B. Contractor shall use equipment and methods that minimize generation of airborne dust (e.g., vacuuming with HEPA vacuums, air filtration) in accordance with the approved Airborne Emissions Management Plan (Section 02005).

PART 3 – EXECUTION

3.01 GENERAL

A. Contractor shall remove loosely adhered paint from all interior and exterior surfaces (e.g., walls, floors, ceilings, piping, structural supports). The level of effort for paint removal shall be specific to the nature, condition, and extent of the painted surface but shall include manual removal techniques using a wire brush or similar equipment.

B. Paint removal activities shall occur in specific areas identified by the Contractor in consideration of the Work, related sequencing of activities, and safety. Following completion of paint removal activities and prior to demolition, Contractor will identify specific areas for CM review. CM will inspect each area to confirm adequacy of paint removal activities by Contractor. Except as otherwise noted or approved by CM, paint removal activities shall occur for a given area of the Contract Work Area prior to the initiation of demolition of that area.

C. Certain areas of the Contract Work Area are subject to separate material management and segregation for disposal based on previous characterization data, identified on the Contract Drawings, and described as follows:

1. Building 40 –

    a. Light green / aqua colored paint shall be segregated for off-Site disposal as Resource Conservation and Recovery Act (RCRA) Hazardous Waste with low-level PCBs.

    b. All other paint shall be segregated for off-Site disposal as low-level PCB-containing Waste, pending additional analytical to be performed by Owner (if any).

2. Main Manufacturing Building and Outbuildings –

    a. Bright yellow colored paint shall be segregated for off-Site disposal as RCRA Hazardous and TSCA-regulated Waste.

    b. White ceiling paint in the Fabrication and PCO Cover Assembly areas shall be segregated for off-Site disposal as RCRA Hazardous and TSCA-regulated Waste.

    c. All other paint shall be segregated for off-Site disposal as TSCA-regulated Waste, pending additional analytical to be performed by Owner (if any).

D. Loose paint that is present on the building surfaces at the time of demolition of an area is unacceptable, even if Contractor has previously conducted paint removal efforts in that area.

At CM's direction, Contractor may be required to conduct additional paint removal activities at Contractor's sole expense.

E. Removal using mechanical equipment or high-pressure water spray is not required. At the CM's discretion, Contractor may not be required to remove paint from surfaces that are in good condition and adequately adhered to building material surfaces at the time of demolition.

F. Following paint removal activities and prior to demolition activities, Contractor shall collect and containerize residual materials from areas where paint removal activities were performed, to minimize the potential for such materials to become airborne during demolition activities and to minimize the co-mingling of demolition debris. Residual materials, regardless of whether they were present prior to or resulting from the Work include, but are not limited to, loose paint, dirt, debris, and building materials. Contractor shall remove these materials to the satisfaction of the CM. Owner will characterize residual materials, as necessary, to determine appropriate Waste management requirements.

END OF SECTION

SECTION 02005

BUILDING / STRUCTURE DEMOLITION

PART 1 – GENERAL

1.01 WORK SPECIFIED

A. Demolition includes the above-grade portions of Buildings 22, 23, 24, 25, 26, 27, 29, 31, 33, 34, 40, certain outbuildings, exterior structures (e.g., tanks, silos, air compressors, light posts in parking lot, inactive electrical power poles), and the electrical high yard, and areas supporting these activities, as identified on the Contract Drawings. Demolition of Building 30, the guard house, and the Wastewater Treatment Plant (WWTP) are not included in this Project.

B. Demolition includes without limitations the above-grade building infrastructure (e.g., interior and exterior walls, roof systems, structural support, windows, doors); former tanks; former tank foundations; utilities; lighting; HVAC components; and equipment, materials, debris and other ancillary items (e.g., stairways, handrails, guardrails, and bollards) that are attached to or present in close proximity to the buildings and structures. Demolition also includes removal of non-concrete flooring down to the at-grade slab (e.g., wood block floor, floor tiles).

C. Above-grade demolition of other designated items within the Contract Work Area including without limitation concrete curbing, guardrails, bollards, elevated concrete equipment pads, inactive utility poles, and other structures, equipment, appurtenances, and devices located within the Site.

1.02 SUBMITTALS

A. Demolition Plan of sufficient detail to adequately describe several components of the demolition. The submittal shall be Project-specific and not include generalized “boiler-plate” information. At a minimum, the Demolition Plan shall include the following:

1. Proposed means, methods, equipment, number of crews, crew size, and supplies to be used for demolition.

2. Schedule, timing, sequence, and phasing of the demolition and related activities, taking into account, without limitation, Owner requirements for demolition sequencing, structural conditions, and material segregation and sizing requirements. Contractor shall sequence work activities so that demolition of Buildings 23, 25, 33, and Toxic Substances Control Act (TSCA)-regulated portions of Building 27 occur during cooler months to reduce the potential for temperature-related PCB air impacts to the surrounding community.

3. Control systems/methods to mitigate the generation of airborne vapors, dust, and debris.

4. On-Site management of demolition debris, including segregation (as generated) of materials (for on-Site and off-Site disposition), transport, staging, sizing, processing, and storage. A separate management plan is required for materials subject to off-Site transport and disposal, recognizing the nature of the PCB impacts to such materials and corresponding Regulations related to on-Site storage prior to off-Site transport.

5. Measures to ensure that demolition activities do not result in the uncontrolled release or discharge of any materials within or to areas outside of the immediate work zone at any time. Measures include, but are not limited to, demolition procedures, multiple pieces of equipment, manual removal of materials, and erection or relocation of physical barriers.

6. Figures presenting demolition sequence, staging areas, demolition support areas, and equipment and personnel decontamination areas. Contractor shall select the location(s) of decontamination area(s) in order to facilitate transfer of decontamination liquids to the on-Site WWTP.

Once the Project is initiated, Contractor shall revise and re-submit the Demolition Plan, as needed, to reflect Project conditions or actual Work activities that are inconsistent with or more detailed than the components of the Owner-approved Demolition Plan.

B. Traffic Control Plan that outlines the Contractor's intended use of on-Site and public roadways, and corresponding traffic control measures for maintaining and protecting vehicular and pedestrian traffic during the Work.

C. Airborne Emissions Management Plan - A plan for controlling airborne emission levels throughout the Property and at all times, including non-work hours and days. Owner will perform ambient air monitoring at the perimeter of the Property in accordance with the approved *Community Air Monitoring Plan – Demolition of Existing Buildings* (Section 00520 – Appendix H) and exceedance of action levels will require the Contractor to implement corrective actions. The plan shall describe several general work practices that will be implemented throughout the Project, including:

1. Apply water spray to multiple areas of potential dust generation.
2. Apply water to exposed material piles.
3. Cover material piles with polyethylene sheeting or other appropriate material.
4. Reduce surface area of exposed material.
5. Containerize material.
6. Monitor the rate of demolition activities, or specific methods.
7. Monitor material handling methods.
8. Monitor Property vehicular traffic.
9. Limit vehicles to operating only on paved or gravel-covered portions of the Property.
10. Sweeping of paved areas and building slabs that are used or disturbed by Project activities or material transport activities.
11. Perform general housekeeping practices to control dust and tracking of materials.
12. Construction and operation of a vehicle cleaning pad, at a location(s) proposed by the Contractor.

It is anticipated that the water supply located in the Pump House (Building 24) will be available for Contractor use for dust suppression and, therefore, Contractor shall sequence Work activities to maintain this supply for the majority of demolition activities. See Section 02001

(Utility Termination / Utility Protection) for additional information related to this on-Site water source. In addition to fixed water supply sources, Contractor shall provide a mobile water storage tank(s) of sufficient size(s) and associated equipment to provide water spray dust suppression techniques to multiple areas affected by the Project, including active demolition areas, Project support areas, and materials staging/stockpile areas. Contractor is not allowed to run water distribution hoses across public roadways

D. Prior to initiating demolition operations Contractor shall conduct an engineering survey of the structure and all adjacent areas that may be affected by Project activities using a competent person to determine structural integrity and the condition of the buildings/structures/areas and the possibility of unplanned collapse. The engineering survey shall be submitted to CM prior to initiating demolition operations. The demolition planning shall consider the structural integrity of the building/structure and adjacent buildings/structures/areas at all times during the Project taking into account, without limitation, changes to the structural support of the building as demolition activities proceed and potential changes in dead and live load conditions (e.g., vibration, impact, wind, snow, rain). Contractor shall sufficiently describe building demolition sequencing to support determinations. Contractor is responsible for taking all necessary and appropriate precautions to establish a safe working environment. Contractor shall document the performance of any updated surveys.

E. Draft submittals, applications, permits prepared by the Contractor in order to receive approval for Project activities (e.g., local demolition permit) shall be provided for CM's review prior to finalization. Contractor shall incorporate CM comments into the finalized submittals, applications, and permits.

PART 2 – PRODUCTS

2.01 MATERIALS AND EQUIPMENT

A. All equipment and materials required to perform the Project shall be supplied by Contractor, appropriate for the specific task, and in good working condition, free of defect, and properly maintained as the Project proceeds.

B. Contractor shall coordinate with the Disposition Contractor for delivery of United States Department of Transportation (USDOT)-approved containers to accommodate project materials generated by demolition activities that are designated for off-Site disposal by Disposition Contractor.

PART 3 – EXECUTION

3.01 ABOVE-GRADE BUILDING DEMOLITION

A. Demolition activities shall be conducted in accordance with the Contractor's approved Demolition Plan, and all applicable Laws, and local and state codes, rules, Regulations, and Contract Documents.

B. Contractor shall verify all existing conditions, including without limitation, the existing building construction and current physical condition; and the type, condition, location, and quantity of materials subject to all components of the Project (demolition, transport, disposal, etc.). Copies

of available building construction drawings will be provided to the Contractor for review; however, this information should not be relied upon as current, complete or accurate and is provided for information purposes only.

C. Prior to initiating demolition activities for a portion of the building/structure, Contractor shall ensure that all pre-demolition activities have been completed to the satisfaction of the CM, including but not limited to: utility terminations; removal of Universal Wastes and regulated wastes; removal of ACM; removal of loose paint and debris from the building surfaces; and permanent and temporary plugging of slab penetrations.

D. The Contract Documents include Variance Petitions (Section 00520 – Appendix I [SIP Appendix E]) that were submitted to and approved by the NYSDOL, granting removal on non-friable ACM roofing utilizing controlled demolition in certain building roofing systems at the Site (i.e., Buildings 23, 29, and 31).

E. Contractor and CM shall review and concur on the types and demarcation of demolition debris to be generated for each portion of the building/structure, such as ACM Waste, Solid Waste, Hazardous Waste, material suitable for on-Site reuse, Recyclable Metal, and material subject to additional characterization. Certain material management requirements are presented below for reference; however, Contractor shall review the Contract Drawings for more detailed information related to the Contract material segregation and management requirements. For each material/building area, Contractor and CM shall review and concur with the removal and management activities prior to commencement of Work.

1. <u>Main Manufacturing Building & Outbuildings</u>

    a. All painted metal shall be managed as TSCA-regulated.

    b. Unpainted or red primer-coated structural steel requires disposal, as indicated on the Contract Drawings.

    c. Large unpainted or primer-coated tanks located within the Tank Farm require cleaning and PCB wipe sampling (by Contractor) to confirm material can be transported off-Site for recycle.

    d. Non-structural materials, such as piping, equipment, infill walls, partition walls, tanks, debris, and refuse, within Buildings 23, 29, and 31 must be removed or relocated prior to initiating demolition of these buildings to reduce the amount of material that is co-mingled with the ACM roofing material, thus requiring disposal as ACM Waste. Any materials removed from Building 23 shall be managed as TSCA-regulated waste. Materials removed from Buildings 29 and 31 building shall be managed as non-TSCA-regulated waste

    e. Certain portions of the Building 27 roof and the Building 22 roof shall be managed as non-TSCA, Resource Conservation and Recovery Act (RCRA) Hazardous Waste. Contractor shall propose means and methods in its Demolition Plan to prevent co-mingling of this material with the non-TSCA, non-RCRA building materials below. Such methods may include pre-gutting of non-structural building materials in these areas prior to initiating roof demolition.

f. Certain portions of Building 27 roof shall be managed as TSCA-regulated and RCRA Hazardous Waste. Contractor shall propose means and methods in its Demolition Plan to prevent co-mingling of this material with the TSCA-regulated building materials below.

g. Certain portions of the at-grade concrete slab in Building 26 and in Building 27 (Assembly) must be covered prior to initiating demolition activities to ensure non-TSCA above-grade materials do not come into contact with the TSCA-regulated concrete slab.

h. Certain portions of concrete block wall in Building 27 (1st Floor Foil Slitting, 1st Floor PCO Cover Assembly, and 2nd Floor Support Areas) will require segregation from surrounding non-TSCA materials and handling/management as TSCA-regulated waste.

2. Building 40

a. Painted metal shall be subject to wipe sampling (by Contractor) to confirm material can be transported off-Site for recycle. For the cost estimating purposes, Contractor shall assume that this material will be eligible for recycle.

b. Two large transformers in the Building 40 Shielded Test Cell area require cleaning by the Contractor and PCB wipe sampling (by Contractor) to confirm material can be transported off-Site for recycle.

c. Concrete block exterior wall located in the northwest corner of Building 40 contains vermiculite and shall be managed as ACM.

F. The Contractor shall use designated equipment (or designated components of such equipment) for demolition and management of materials with different disposition designations, and/or conduct cleaning activities of equipment prior to use for a different type of material. Cleaning shall be conducted to remove all visible materials adhered to the equipment to the satisfaction of the CM.

G. Demolition activities shall occur at a rate at which the Contractor is able to safely and fully control and perform all related support activities (e.g., material sizing, processing, staging, loading, transport, and stockpiling). Should the rate of building demolition exceed the Contractor's ability to perform the necessary support activities, the Owner may direct the Contractor to take one or more mitigating steps at Contractor's sole expense including, but not limited to, extended work hours, mobilization of additional equipment to process and transport materials, or reduction in the rate of building demolition.

H. All active Project activities shall not be conducted within 25 feet of the existing active railroad track centerline. Contractor shall not position equipment near existing active railroad tracks in a manner that presents a potential to reach and/or foul the tracks.

I. Wrecking balls or explosives of any type are not permitted.

J. The use of flame-emitting cutting devices shall only be allowed with the permission of CM. Contractor must identify for review by CM the materials and locations that are proposed to be cut using a flame-emitting device. Prior to initiating any cutting activities, the use of a flame-emitting device, or the operation of any device that has the potential to emit sparks, Contractor

shall obtain a hot work permit through CM and verify activities are not being performed in a potentially combustible/explosive atmosphere. Contractor will not be permitted to utilize flame-emitting devices on PCB-impacted debris.

K. Contractor shall remove all loose debris, including loosely adhered epoxy floor coating, from the floor slab prior to, during, and following demolition activities, and maintain a safe, neat, and orderly environment within the Contract Work Area, including without limitation routine cleaning measures, good housekeeping practices, organized material storage and staging areas, etc.

L. Unless otherwise noted, all building columns, roof drains, piping, conduits, etc. that penetrate the floor slab shall be removed flush with the surrounding floor slab. In areas where infrastructure that penetrates the building slab is designated as TSCA-regulated, additional considerations and planning activities are required by the Contractor to remove this infrastructure without significant damage to the at-grade concrete floor slabs, including damage that would cause liquids to permeate into the sub-slab soils, to be outlined in its Demolition Plan.

M. Piping that extends through the at-grade floor slab (excluding roof drain slab penetrations) shall be fitted with a compression-type mechanical plug (or other approved means) followed by placement of non-shrink grout to a level flush with the floor surface. The placement of a pipe plug and non-shrink grout should occur in a timely manner following removal of the above-grade portion of any floor penetrations. Roof drain slab penetrations shall be temporarily plugged during demolition to protect this infrastructure from receiving demolition debris and converted to slab surface drains following demolition as part of Project Restoration activities (Section 02007).

N. Unless otherwise noted, all concrete floor slabs shall remain intact. Damage to the slabs that result in an unsafe condition and/or cause liquids to permeate into the sub-slab soils shall be repaired to the satisfaction of Owner, at Contractor's sole expense.

O. Demolition of the electrical high yard located on the west side of Building 40 shall be completed by appropriately licensed and trained electrical service subcontractor, if Contractor does not possess such qualifications.

P. Unless otherwise noted, Contractor shall remove all light posts in the parking lot and inactive electrical power poles throughout the Site as part of demolition activities.

Q. Contractor shall remove the asphalt stockpile located in the southwest corner of the parking lot for disposal and/or recycle (with approval by CM).

3.02 AT-GRADE BUILDING DEMOLITION

A. Contractor shall remove non-concrete flooring (e.g., wood block, tiles) down to the at-grade concrete floor slab throughout the Contract Work Area.

3.03 BELOW-GRADE STRUCTURES

A. Contractor shall implement measures to prevent liquids and debris from entering pits, sumps, vaults, trenches, etc. Such measures shall include plugging of drains or outlets, filling cracks with non-shrink grout or approved sealants, and placement of a temporary cover over the opening. Materials lost to pits or trenches due to Contractor activities shall be removed at Contractor's sole expense.

B. Contractor shall include measures to protect all Site personnel from potential harm related to pits, sumps, vaults, trenches, openings, etc., located within the buildings, including placement of temporary barriers around the pits, avoiding such areas during Site operations, or placing appropriately-sized road plates, if it is necessary, for heavy machinery to cross over the pits, etc. These measures shall be maintained for the duration of the building demolition.

3.04 SEGREGATION AND PROCESSING OF BUILDING DEMOLITION MATERIALS

A. Several materials will be generated during the Project that will require handling, movement, and disposition, as specified in the Contract Documents. In developing the Demolition Plan, Contractor shall consider the types and corresponding quantities of Project materials to be generated, and specific measures that will be implemented to ensure the effective segregation of these materials as generated in a manner that promotes safe workplace conditions and does not allow for mixing of different or incompatible materials based on final disposition requirements. Contractor shall fully understand the building areas and nature of the demolition debris to be generated in regards to off-Site disposal and on-Site reuse. Building demolition activities shall facilitate the segregation of materials based on their type, quantity, and planned disposition. During demolition, the materials identified for off-Site disposal shall be moved from the active work area in an organized and timely manner, and either placed into material-specific temporary stockpiles or into disposal containers for subsequent off-Site transportation.

B. Materials identified for on-Site reuse shall be sized prior to placement in temporary stockpiling areas. Contractor is responsible for using proper equipment to transport such materials. Contractor will be expected to make reasonable and sufficient efforts to segregate reusable masonry material, so that minimal, if any, co-mingling with other Waste streams occurs.

3.05 CONTROL OF AIRBORNE DUST, DEBRIS, AND VAPORS

A. Contractor shall ensure each day that perimeter ambient air monitoring (conducted by others) and Contractor-implemented mitigative measures are fully operational prior to the performance of any Project activities that could potentially generate airborne particulates and/or vapors.

B. Equipment and methods used for demolition shall generate a minimum amount of localized particulate matter and visible emissions. Contractor shall undertake all measures necessary to control particulate matter and visible emissions during the Project in accordance with the approved Airborne Emissions Management Plan. Contractor shall be responsible for controlling particulate matter and visible emissions generated as a result of building demolition; material handling, sizing, loading/unloading, and crushing operations; vehicle travel; and other Work activities. Particulate matter and visible emissions will be measured and controlled based on visual observations and monitoring performed by Owner.

C. The presence of uncontrolled particulate matter and visible emissions during the performance of Project activities is prohibited. Such visible emissions and particulate matter will require the temporary suspension of Work and the implementation of abatement and preventative measures that include, but are not limited to those identified for the Airborne Emissions Management Plan and as otherwise identified in the Contract Documents.

D. Contractor shall not allow any flying debris during building demolition activities (i.e., insulation, ceiling tiles, or other lightweight materials), and shall use appropriate equipment and methods necessary to control flying debris during the Project.

3.06 OPTIONAL TASK – TSCA PAINT REMOVAL (STRUCTURAL STEEL)

A. In lieu of managing all painted structural steel and equipment in the Main Manufacturing Building as TSCA-regulated, Contractor may propose an alternate approach to decontaminate certain metal surfaces in compliance with 40 CFR 761.79 by removing the paint to a Visual Standard No. 3, Commercial Blast Cleaned Surface Finish, of the National Association of Corrosion Engineers (NACE). Areas of Building 27 have been identified where paint removal may present a cost savings to the Project due to the large size of painted structural steel members and the fact that exterior members are unpainted (primer-coated, only) on the side abutting the exterior wall. Following paint removal and visual inspection for compliance with Standard No. 3, by the Owner, or Owner's representative, metal can be salvaged. Any materials collected from the paint removal efforts (e.g., paint, blast media, PPE, critical barriers) shall be containerized for off-Site disposal by Disposition Contractor as TSCA-regulated waste.

END OF SECTION

SECTION 02006

STAGING, LOADING, AND DISPOSITION OF PROJECT MATERIALS

PART 1 – GENERAL

1.01 WORK SPECIFIED

A. On-Site management of Project Materials subject to disposition, including without limitation the following:

1. Removal, handling, segregation, staging, containerization, labeling and recordkeeping of Project Materials in compliance with all applicable Laws and in a manner that does not combine or mix Project Materials subject to different disposition designations.

2. Processing, sizing, and preparation of Project Materials, as necessary, to comply with requirements established by the transportation vendors, on-Site stockpiling constraints, off-Site disposal facilities, and Disposition Contractor.

3. Organized and orderly movement of Project Materials from their place(s) of origin/generation to designated location(s) within the Site prior to on-Site or off-Site disposition.

4. Loading of materials into containers provided by the Disposition Contractor for off-Site disposition, and/or placement of materials in designated on-Site areas for future reuse.

5. Documentation of all off-Site shipments.

6. Cleaning/decontamination of trucks, as needed, to avoid tracking of materials onto public roadways. If Contractor-implemented truck decontamination measures are unsuccessful at preventing the off-Site migration of Project Materials, CM may require Contractor to construct and/or implement additional measures as determined appropriate by the CM and at Contractor's sole expense.

B. Coordination with Owner-identified disposal facilities and Disposition Contractor related to transportation and disposition of Project Materials. Coordination activities shall include, but not be limited to scheduling, Site safety requirements, on-Site and off-Site traffic patterns, sizing requirements, container sizes, material loading, and documentation. Contractor shall include Owner and CM on all communications.

C. Use of designated Project Materials as fill and grading material within the Contract Work Area, including without limitation the movement of Project Materials to locations within the Site in preparation for final disposition.

D. The costs for off-Site transportation and disposition of Project Materials (excepting Recyclable Metal) will be borne by Owner, exclusive of additional charges caused by Contractor actions (e.g., demurrage) that are at Contractor's sole expense.

E. The Contractor shall be trained in accordance with the requirements of 49 CFR Part 172 Subpart H and other applicable Resource Conservation and Recovery Act (RCRA) and United States Department of Transportation (USDOT) training, including that required for shipment of hazardous waste. The Contractor shall also be responsible for marking/labeling/placarding

each shipment in accordance with applicable RCRA and USDOT requirements. Execution of the manifests will be performed by Owner.

1.02 DEFINITIONS

A. **Hazardous Substance** means (1) any substance designated pursuant to section 311(b)(2)(A) of the Federal Water Pollution Control Act [33 U.S.C. 1321(b)(2)(A)]; (2) any element, compound, mixture, solution, or substance designated pursuant to 42 U.S.C. 9602; (3) any hazardous waste having the characteristics identified under or listed pursuant to section 3001 of the Solid Waste Disposal Act [42 U.S.C. 6921]; (4) any toxic pollutant listed under section 307(a) of the Federal Water Pollution Control Act [33 U.S.C. 1317(a)]; (5) any hazardous air pollutant listed under section 112 of the Clean Air Act [42 U.S.C. 7412]; and (6) any imminently hazardous chemical substance or mixture pursuant to section 7 of the Toxic Substances Control Act [15 U.S.C. 2606].

B. **Hazardous Waste** means any solid waste, or combination of solid wastes (including PCB-impacted building demolition debris, as designated on the Contract Drawings), which because of its quantity, concentration, or physical, chemical, or infectious characteristic may (1) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or (2) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed. Hazardous Waste includes without limitation; (1) hazardous waste identified in accordance with Section 3001 of RCRA; (2) hazardous waste identified under regulation by the New York Department of Environmental Conservation (NYSDEC); (3) PCBs in concentrations greater than or equal to 50 mg/kg; and (4) such other materials as may be defined by Owner as hazardous.

C. **Liquid Waste** means aqueous liquids within piping, tanks, pits, and sumps; decontamination/equipment cleaning fluids; or other aqueous phase wastes encountered during implementation of the Work that are not otherwise defined as Universal Waste. Liquid wastes also include high-water-content solids, sediments, sludges and other residuals that are encountered during the Project.

D. **Project Materials** collectively means materials generated by the Project, including ACM Waste, Hazardous Substances, Hazardous Waste, Reusable Demolition Debris, Solid Waste, Universal Waste, Liquid Waste, Waste, and Recyclable Metal.

E. **Recyclable Metal** means ferrous and non-ferrous metal and any other metal resulting from the Project that is capable of being sold on the scrap or salvage metal market under any circumstances.

F. **Reusable Demolition Debris** means concrete and brick material associated with the buildings and structures that contains PCBs less than 25 mg/kg, is free of loose paint and debris, and meets the requirements in Section 02206 Part 2.01. The Contract Drawings identify areas of Re-Usable Demolition Debris.

G. **Solid Waste** means any garbage, refuse, sludge from a wastewater treatment plant, water supply treatment plant, or air pollution control facility and other discarded materials including solid, liquid, semi-solid, or contained gaseous material, resulting from industrial, commercial, mining and agricultural operations, and from community activities. Solid waste includes, but is

not limited to miscellaneous C&D, garbage, trash, cardboard, food containers of any type, paper, rags, packing materials, paper cups, sawdust, etc., but not Hazardous Waste or Universal Waste.

H. **Universal Waste** means batteries, pesticides, mercury-containing devices, lamps, etc. regulated as a Universal Waste under regulations adopted pursuant to the 6 New York Codes, Rules and Regulations (NYCRR) Part 374-3. Universal waste does not mean batteries, pesticides, thermostats and lamps that are not covered under 40 Code of Federal Regulation (CFR) Part 273, or used electronics that are not regulated as a Universal Waste.

I. **Waste** means Hazardous Waste, Universal Waste, Solid Waste, Liquid Waste, and any other materials generated as part of Project activities that are subject to off-Site disposal.

1.03 SUBMITTALS

A. A Material Management Plan of sufficient detail to adequately describe the following:

1. Material staging areas (by material type) showing on-Site and off-Site truck routes (including truck waiting areas, truck loading and weighing areas, and Site access and egress).
2. Available truck sizes and types for each material type.
3. Means and methods for safely lining, loading, and covering trucks.
4. Means of labeling Project Materials and placarding trucks.
5. Means and methods to determine the loaded weight of each truck.
6. A description of the material tracking procedures.
7. A summary of the estimated number of truck loads to be transported each week by transportation method.
8. General approach and plan for truck scheduling.

B. Each week, provide One Week Disposal Look-Ahead to the CM for required trucking, with number of trucks and containers requested for each of the next seven days. Truck loads shall be specified by the hour.

C. Weekly transport reports submitted to the CM. At a minimum, the weekly reports shall summarize the following information for each truck load:

1. Load number (sequential)
2. Truck ID number (license plate number of the truck and/or trailer used)
3. Type of material transported (e.g., asbestos-containing material, hazardous waste)
4. Manifest number
5. If transferred to another form of transportation, the subsequent date of loading and transport
6. Weight

PART 2 – PRODUCTS

2.01 MATERIALS AND EQUIPMENT

A. Equipment used by Contractor shall be in good working order and suitable for the intended operation. Equipment should be operated by appropriately trained and licensed operators.

B. Contractor shall coordinate with the Disposition Contractor for delivery of United States Department of Transportation (USDOT)-approved containers to accommodate project materials generated by demolition activities that are designated for off-Site disposal by Disposition Contractor.

C. All vehicles used to transport Project Materials shall be suitable for the intended purpose and properly secured prior to leaving the Site. All containers that will be transporting Hazardous Wastes must be lined with polyethylene sheeting (or equivalent), to be provided by Disposition Contractor. All vehicles must be covered with tarps prior to transport from the Property.

D. Mobile and certified calibrated weigh scales, and/or other Owner-approved means or methods to document the quantities of Project Materials leaving the Site and confirming that the total loaded vehicle weights are within allowable limits.

PART 3 – EXECUTION

3.01 SEGREGATION, HANDLING, SIZING, AND STAGING OF PROJECT MATERIALS

A. As generated, Contractor shall segregate all Project Materials into similar types for handling, management and disposition. Contractor shall delineate the location of each Project Material and receive CM's approval of that delineation before proceeding with related demolition activities.

B. Contractor shall coordinate with CM if additional characterization data are required. Unless otherwise stated in the Contract Documents, Owner will be responsible for the collection, shipping, and analysis of additional waste characterization samples, if necessary. For planning purposes, Contractor shall allow for a two-week turnaround time for Owner to collect samples and receive analytical results.

C. Contractor shall identify and comply with sizing and acceptance criteria of each transportation company, disposition facility, and Disposition Contractor for all Project Materials, recognizing that specific transportation companies, and disposal facilities may have requirements related to maximum/minimum dimensions of the materials, and other criteria that may result in the need for processing of Project Materials prior to loading for off-Site transportation. In addition, Contractor shall size Project Materials to optimize off-Site transportation schedule and costs. Some general requirements provided include the following:

1. Masonry materials shall be sized to a maximum dimension of six (6) inches.
2. ACM shall be sized to a maximum dimension of two (2) feet.
3. General construction and demolition (C&D) debris shall be sized to a maximum dimension of two (2) feet.

4. Structural metals and machinery shall be sized to a maximum dimension of four (4) feet. With CM approval, larger steel member sizes may be permitted to allow for shipping of larger length sections provided that Contractor place steel sections into containers methodically with an excavator-mounted grapple, or similar.
5. Project Materials shall not contain free liquids. Suspect materials shall pass a paint filter test prior to loading and shipping.
6. Project Materials containing reinforcing bars (rebar) shall have rebar cut flush to the material surface.
7. Project Materials shall not contain void spaces (i.e., tanks, vessels, machinery).
8. Large or bulky building materials such as steel beams, etc. must be less than 4 feet in length.
9. Waste materials shall not contain any debris larger than three (3) feet by three (3) feet by two (2) feet.
10. Place beams at bottom of containers and neatly stack.
11. Contractor is responsible for damage to shipping containers, trucks, and tarps.

D. Materials identified for on-Site reuse shall be sized to 6-inches or less and void of structural or other steel prior to transport to designated on-Site stockpiling or disposition locations. Contractor will be expected to make reasonable and sufficient efforts to segregate reusable masonry material, so that minimal, if any, co-mingling with other waste streams occurs. Contractor shall be prepared to place crushed reusable masonry material within the Site several times during the Project as part of restoration activities and/or to address potential physical safety hazards (e.g., open pits). No movement or placement of these materials shall be conducted without CM approval.

E. Contractor shall coordinate building demolition with the handling, staging, transport, and sizing of Project Materials in a manner that is safe, efficient, controlled, and organized to ensure that there is no mixing of or contact between Project Materials with different disposition designations. As needed, Contractor shall establish separate work practices, equipment, and work areas to ensure that this condition is met.

F. If Hazardous Substances, Hazardous Waste, Universal Waste, or Waste Metal is not direct loaded for off-Site transport, the Contractor shall stage such materials in compliance with applicable Laws and in a manner that minimizes the potential for contact or migration while staged. At no cost to Owner, CM may direct Contractor to increase the level of Site controls (e.g., additional tarping and/or fencing, smaller staging areas, increased monitoring) or direct Contractor to expedite the timing of off-Site transportation of the materials.

G. Activities associated with the handling, staging, sizing, and loading of Project Materials shall be performed in a manner that minimizes the generation of dust, airborne debris, or other debris that could be subject to migration via precipitation runoff, vehicular tracking, wind, or other. Should levels of dust or airborne debris, or quantities of surface debris be deemed unacceptable by CM and potentially attributable to materials staged on-Site, Contractor will be required to place, secure, and maintain a tarping system over the staged materials.

H. Temporary stockpiles for materials subject to off-Site disposition shall meet the following requirements, unless otherwise directed by CM:

1. Stockpiles shall be kept neatly piled and trimmed, so as to cause as little inconvenience as possible to Project activities, facilitate on-Site traffic, protect workers and the public, and comply with all applicable Regulations.

2. Unless noted differently in the Contract Drawings, each stockpile shall be underlain with minimum two layers of 10-mil polyethylene and silt fence installed about its perimeter.

3. Stockpiles shall be securely covered at all times (during both working and non-working hours) with minimum 10-mil polyethylene liners when not in use. Liners shall be properly anchored to prevent uplift due to wind conditions and shall be installed to minimize the ponding of precipitation. Other erosion and sediment control measures may be required.

4. Based on Site conditions, CM may limit the maximum allowable stockpile size.

5. Stockpiles shall be inspected daily (at a minimum) and any noted deficiencies shall be immediately corrected by Contractor to the satisfaction of CM.

6. Materials shall be staged so that on-Site traffic can comply with the Traffic Control Plan (submitted in accordance with Specification 02005).

3.02 MATERIAL TRANSPORT AND LOADING

A. Contractor shall direct on-Site truck traffic.

B. Contractor shall load Project Materials in accordance with the Disposition Contractor's requirements. Contractor shall install Owner-provided liners in trucks and rolloffs where required. Contractor shall load trucks within two hours of scheduled arrival time. The two hours shall include the following Site activities: staging and unloading, loading, wheel washing, payload adjustments, tarping, paperwork administration, and final inspection. Any additional costs identified by Disposition Contractor that are related to delays longer than two hours shall be borne by the Contractor.

C. Contractor shall manage and process (as necessary) all Project Materials and comply with regulatory requirements for shipping, including but not limited to not containing free liquids based on Paint Filter Testing and visual observation by the CM. Dusty materials shall not be shipped without dust suppression being applied at the Site. Frozen materials shall not be shipped.

D. Contractor shall determine the weight of each truck load prior to leaving the Site. Trucks loaded below the minimum allowable weight or above the maximum allowable weight defined by the Disposition Contractor and applicable Regulations shall be adjusted and corrected by the Contractor at no additional cost to Owner.

E. Contractor shall completely cover all loads of materials transported from the Site in a manner that promotes the safety of all on-Site personnel. The loads shall be secured so that there is no material or dust being released from the vehicle at any time. The Contractor shall ensure that at no time soil, sediment, or liquid is released during transport on-Site or off Site.

F. Tracking of any soil or demolition debris is strictly prohibited. Should such material inadvertently be tracked, Contractor shall implement housekeeping measures to address such material at no additional cost to Owner, which may include sweeping of paved surfaces and/or establishment of a truck washing station.

G. Any material that spills, leaks, is dropped from the vehicle, or is misplaced by the Contractor during transport shall be reported to the CM immediately and removed by Contractor at Contractor's sole expense.

H. Contractor shall be responsible for damage to equipment (beyond normal wear and tear) resulting from improper preparation of the material prior to loading, loading of non-conforming material, improper handling of equipment during loading, or overloading of the containers.

3.03 DISPOSITION OF PROJECT MATERIALS

A. **Hazardous Waste / Solid Waste / ACM Waste / Waste –** Off-Site transport and disposal of these wastes will occur at Owner-identified and contracted facilities. Owner will provide shipping containers and costs for transportation and disposal of wastes will be borne by the Owner. Owner will execute manifests.

B. **Universal Wastes / Liquid Wastes**. Contractor to provide drums or other containers necessary to containerize Universal Wastes and Liquid Wastes removed from the Contract Work Area. Owner may elect to characterize the containerized materials to identify appropriate disposal location. Costs for transportation and disposal of wastes will be borne by Owner. Owner will execute manifests.

C. **Reusable Demolition Debris.** Reusable masonry materials generated from designated areas of the buildings/structures designated on the Contract Drawings shall be generated, processed, and sized prior to loading and transport to the designated stockpile areas or disposition location. Contractor to provide all equipment and containers necessary to manage these materials.

D. **Recyclable Metal.** Off-Site transport and disposition of Recyclable Metal will occur at Owner-identified and/or approved facilities. Contractor will provide shipping containers and salvage value will be received, as specified in the Contract Documents. Owner will execute shipping documents. Prior to disposition, such Recyclable Metals shall be collected, cleaned of foreign debris, and sized according to the salvage facility requirements.

E. **Wastewater**. Disposal of wastewater shall be as specified below.

1. Contractor shall provide temporary water storage, as needed. Secondary containment around any temporary tanks and piping used by Contractor is required.

2. Contractor shall process the water to remove surfactants, so that the Total Suspended Solids (TSS) is less than 200 mg/l, and so that ACM residuals are removed. Upon approval by the CM, Contractor shall transfer the water to GE's on-Site Wastewater Treatment Plant (WWTP).

3. Contractor shall test each batch of wastewater for TSS, either in the field or laboratory. Test results shall be submitted to CM and approved prior to discharge transfer. Retesting shall be required is wastewater is added to a batch post-TSS sampling.

4. Water discharge must be coordinated with the CM. Water may be discharged to the WWTP at up to one hundred (100) gpm between 7 AM and 5 PM, six (6) days a week. Twenty-four (24) hours' notice prior to discharge is required.

3.04 TRAFFIC CONTROL

A. Contractor shall implement traffic control measures at the Site as necessary for the safe completion of the Work.

3.05 DUST CONTROL AND MANAGEMENT

A. Dust control methods during trucking operations at the Site shall be performed by Contractor in accordance with the Airborne Emissions Management Plan (submitted in accordance with Specification 02005).

B. Haul trucks used during material handling, loading/unloading, and transport shall not be overloaded. To minimize the potential for particulates to become airborne during material transport and loading/unloading, the trucks shall be washed or wetted down, treated, or covered. Prior to leaving the Property, the interior of empty cargo compartments on haul trucks shall be cleaned.

3.06 DECONTAMINATION OF EQUIPMENT

A. All trucks and equipment that come into contact with contaminated material or enter the Site shall be inspected, washed (if required by CM) prior to leaving the Site. Decontamination shall be conducted at a location approved by the CM. Decontamination and collection/treatment of the decontamination fluids shall be performed in accordance with Section 01385 (Equipment Decontamination).

3.07 RECORDKEEPING

A. Contractor shall document in tabular form all on-Site and off-Site shipments of Project Materials, including material type, quantity, date of shipment, receiving facility, tracking number (manifest number), and transportation company.

END OF SECTION

SECTION 02007

PROJECT RESTORATION

PART 1 – GENERAL

1.01 WORK SPECIFIED

A. Cleaning of all post-demolition Project surfaces and sub-grade structures (e.g., vaults, pits, sumps, trenches) to remove dirt, debris, and grit, etc.

B. Transportation, placement, and compaction of fill materials within the Contract Work Area to fill sub-grade structures (e.g., vaults, pits, sumps, trenches, etc.) to match the surrounding grade elevation.

C. Placement of geotextile followed by acceptable on-Site reusable materials and/or imported fill material to provide cover over certain building slabs exposed by Project activities where PCB concentrations exceed 25 mg/kg and are not subject to removal as part of this Project, as identified on the Contract Drawings.

D. Implementation of interim stormwater management measures, installation of asphalt berm around certain portions of the building slabs (i.e., around the Main Manufacturing Building slab), as shown on Contract Drawings. Contacting surface of existing concrete slab shall be free of debris prior to berm installation.

E. Conversion of existing roof drain slab penetrations to slab surface drains by installing MIFAB Series R1100-G lacquered cast iron roof drains (or approved equal), as shown on Contract Drawings.

F. Elimination of grade changes resulting from the Project that present a potential trip or fall hazard, including without limitation changes in surface elevation within the Site, and between the perimeter building slab/foundation and the adjacent ground surface.

G. Repair of concrete slabs that would allow liquids to permeate into the sub-slab soils.

H. Restore and/or repair all soil surfaces, pavements, fencing, curbs, culverts and other features disturbed, damaged or destroyed during the Project that were not otherwise identified for demolition.

I. Cleaning and removal of equipment and Project support areas.

J. Miscellaneous restoration, cleaning, housekeeping, and demobilization activities.

K. The replacement of surfaces at any time, as scheduled or as directed, shall not relieve Contractor of its responsibility to repair damages by settlement or other failures that may occur after restoration of surfaces.

1.02 SUBMITTALS

A. Shop drawings and manufacturer cut sheets for any permanent restoration feature (e.g., chain-link fencing, asphalt berm).

PART 2 – PRODUCTS

2.01 MATERIALS

A. CM-designated crushed concrete and brick material to be used as fill to achieve interim design grades, shall meet the specified gradation requirements.

B. Bituminous asphalt materials for restoring paving disturbed or damaged during Project activities shall be as specified in New York State Department of Transportation (NYSDOT) – Standard Specifications, Section 400 or otherwise approved by Owner.

C. Temporary fencing shall be a minimum of 6 feet in height, chain-link, and self-supported (i.e., no driven or buried posts). Fencing shall be ballasted with sand bags to maintain upright position.

D. For materials subject to reuse and placement within the Contract Work Area (i.e., materials that are to be crushed and transported to on-Site stockpile areas) Contractor shall provide containers, trucks, etc. necessary for transport of materials.

E. The quality of materials and the performance of Work used in the restoration shall produce a surface or feature acceptable to Owner and in compliance with generally accepted construction methods.

PART 3 – EXECUTION

3.01 CLOSURE OF SUB-GRADE STRUCTURES AND PIPING

A. The closure of pits, vaults, sumps, trenches, etc., or other voids created or exposed by Project activities shall be coordinated with ongoing Project activities and shall occur prior to, during, or following demolition activities, in consideration of size, location, Project sequence, and safety.

B. Pits, vaults, sumps, trenches, catch basins, etc. or other voids shall be cleared of any liquid and debris prior to implementing plugging activities. Unless otherwise specified, drains, outlets, or piping that enters or leaves the pit, etc. shall be fitted with a compression-type mechanical plug, or other approved means, followed by placement of non-shrink grout to a level flush with the surrounding surface.

C. If the interior pit, etc. surfaces are not visually clean to the satisfaction of the CM, Contractor shall pressure wash all surfaces, and collect the wash water for subsequent disposition to on-Site Wastewater Treatment Plant (WWTP).

D. Fill pits identified on the Contract Drawings with crushed suitable demolition debris (i.e., unpainted brick or concrete) or imported fill material to a level flush to the floor surface.

3.02 PLACEMENT OF FILL MATERIAL

A. Placement of fill material shall be performed in accordance with Section 02201 (Earthwork).

3.03 TOPSOIL & SEEDING

A. Contractor shall install appropriate erosion and sediment controls over disturbed and/or exposed soil areas (i.e., topsoil, seed, mulch), in accordance with applicable state and local requirements.

B. Contractor shall provide soil preparation, seeding, and surface topdressing of areas inside or outside the limits of construction that are disturbed by the Contractor's operations. Contractor shall spread topsoil over rough finish grade, compact and fine grade. At a minimum, Contractor install 3” – 6” of topsoil prior to seeding to ensure adequate growth.

3.04 OTHER TYPES OF RESTORATION

A. Any items, intact surfaces, structures, utilities, etc. incidentally damaged as a result of the Project must be restored in like material and configuration to that which existed prior to the damage.

END OF SECTION

SECTION 02160

SURVEY CONTROL

PART 1 – GENERAL

1.01 WORK SPECIFIED

A. All labor, materials, equipment, and services as specified and required to establish and maintain survey control throughout the Project and ensure the proper documentation of the work.

1.02 SUBMITTALS

A. Survey Control Plan that includes (at a minimum) the following:

1. Name, address, affiliation, and license number of Contractor's Professional Land Surveyor registered in New York State.

2. Site plan depicting the locations of the proposed survey control points to be used to document final "as-built" Site condition and a listing of coordinates (northing and easting).

3. The Contractor's proposed methods of collecting, recording and presenting the required survey data during and following demolition and Site restoration activities.

B. Survey data for existing subsurface structures (e.g., utility, foundation) encountered during the work that remain following the Project. Provide locations, elevations, and/or alignments (as appropriate). If partially removed or altered during the work, provide locations, elevations, and/or alignments (as appropriate) of remaining or altered portions of existing subsurface structures.

C. Survey data for optical survey points on the existing buildings, remaining building slabs, and sanitary/storm sewer manholes and catch basins.

1.03 QUALITY ASSURANCE

A. Qualifications

1. Contractor's Surveyor: Retain the services of an independent Professional Land Surveyor licensed and registered in New York State to perform all surveying and layout tasks required in the Contract Documents and as required for the work.

B. Reference Datums

1. Horizontal datum for survey activities shall be the North American Datum of 1927 (NAD27) New York State Plane Coordinate System.

2. Vertical datum shall be the National Geodetic Vertical Datum of 1929 (NGVD 1929).

1.04 SCHEDULING

A. The Contractor shall anticipate and schedule Site work, including utility terminations/modifications, building demolition, backfilling of subgrade features, and Site restoration, to accommodate survey activities and the Construction Manager's (CMs) review of survey data.

PART 2 – PRODUCTS (NOT USED)

PART 3 – EXECUTION

3.01 GENERAL

A. Surveying activities shall include, but are not necessarily limited to, the following:

1. Performing a pre-construction survey to document or confirm existing (pre-construction) Site conditions, as needed.
2. Preparing and maintaining professional-quality, accurate, well organized, legible notes of all measurements and calculations made while performing surveying activities.
3. Collecting and submitting, in an organized electronic format, all data collected while performing surveying activities
4. Providing such facilities and assistance necessary for the CM to check lines and survey points placed by the Contractor.
5. Preparing a post-construction "as-built" survey drawing(s) following the completion of all demolition and Site restoration Work.

3.02 POST-CONSTRUCTION SURVEY

A. Perform a detailed post-construction survey of the Site following the completion of all demolition and Site restoration work. Survey and document the final Site conditions, including locations, elevations, and/or alignments (as appropriate) of surface topography and grade breaks (with 0.5-foot contours), limits of restored surfaces, utility modifications, and surface features (e.g., buildings, fencing, trees, roads, curbs, etc.).

3.03 SITE QUALITY CONTROL

A. Maintain the following survey tolerances during the work:

1. Excavation, backfilling and grading: 0.10 foot.
2. Optical survey, structural features, and utilities: 0.01 foot.

END OF SECTION

SECTION 02201

EARTHWORK

PART 1 – GENERAL

1.01 WORK SPECIFIED

A. All labor, materials, equipment, and incidentals required to perform all excavating, backfilling, compacting, and grading required for the Project.

B. Excavation includes all materials regardless of type, character, composition, moisture, or condition, except rock or subsurface debris requiring drilling or specialized equipment for removal.

C. Protection of utilities and installation of support system for utilities and conduits within the Property.

PART 2 – PRODUCTS

2.01 BACKFILL MATERIAL

A. Acceptable backfill materials are identified in Section 02206 – Fill Materials.

PART 3 – EXECUTION

3.01 PREPARATION

A. Install and maintain temporary erosion, sediment, and stormwater controls in accordance with Section 02371 – Sediment and Erosion Control.

3.02 EXCAVATION

A. General

1. Excavation activities shall be performed using suitable equipment, sized appropriately based on Site conditions and constraints, and methods determined by Contractor.

2. Contractor shall excavate soils and debris to the horizontal and vertical limits as needed to gain access to subsurface features.

3. Stability of Excavations

   a. Stability and conditions of excavation areas and job safety are the sole responsibility of Contractor.

   b. Shoring, bracing, and sloping of excavation areas must be conducted in accordance with all applicable Laws and Regulations.

4. Contractor is responsible for providing safe and adequate vehicle/equipment access to and egress from the excavations.

5. All open excavations shall be adequately safeguarded by providing temporary barricades, caution signs, lights, and other means to prevent unwanted/ unknowing access, accidents to persons, and damage to property. Such measures shall be installed and maintained in accordance with all applicable Laws and Regulations. The length or size of excavations will be controlled by the particular surrounding conditions.

B. Subgrades

1. Subgrades shall be firm, dense, and thoroughly compacted and consolidated; free from mud, muck, and other soft or unsuitable materials; and remain firm and intact under all construction operations. Subgrades that are otherwise solid but become soft or mucky on top due to construction operations shall be reinforced with general fill.

C. Handling/Management of Excavated Materials

1. Excavated materials shall be temporarily stockpiled in locations approved by CM so as not to endanger the Work, and to allow easy access at all times to all areas of fill or excavation.

2. Crushing/downsizing requirements for excavated materials are provided in Section 02206 – Fill Materials.

D. Dust Control

1. Contractor shall be responsible for controlling the dust created by any and all of the Contractor's operations to ensure the safety and welfare of on-Site personnel and the general public.

3.03 BACKFILLING AND COMPACTION

A. General

1. All excavation areas shall be backfilled to the original ground surface, other grades as specified on the Contract Documents, or as directed by the CM.

2. Backfilling shall be done with satisfactory soils or specified materials, as appropriate.

3. Backfill material shall be free of roots, vegetation, organic matter, or other foreign debris.

4. Any settlement occurring in backfilled areas shall be refilled and compacted at Contractor's expense.

5. Materials shall be placed in such a manner that will facilitate drainage at all times. Ponding of water shall not be permitted.

6. Contractor shall anticipate and schedule Site work to accommodate laboratory/field testing of backfill materials and review of test results.

B. Equipment

1. Backfilling and compaction equipment shall be sized appropriately based on Site conditions and constraints.

2. If the proposed method does not produce a sufficient degree of compaction, an alternate method shall be adopted until sufficient compaction is achieved, as deemed by CM.

3. Equipment that contacts Project Materials with regulated disposal requirements and Site soils shall be subject to decontamination in accordance with the provisions specified in the Contract Documents.

C. Compaction Requirements

1. Backfill within utility excavations:

a. Placement of various backfill materials shall be performed in a manner to eliminate void spaces or nesting. Loose lift thickness shall not exceed 12 inches.

b. Backfill material shall be placed and compacted using a drum-type, power-driven, hand-guided vibratory compactor; or hand-guided vibratory plate tamper, or other satisfactory equipment proposed by Contractor and approved by CM. Methods of compaction shall be sufficient to satisfy Part 3.03.A.

2. Compaction of backfill against or within three feet of any existing or new foundation/ support wall to be installed shall be completed using hand-guided vibratory compactors or plate tampers.

3. Water shall be added to backfill material during placement and compaction as needed to increase compaction. If, due to rain or other causes, the material becomes too wet and cannot be adequately compacted as determined by CM, Contractor shall mechanically reduce the moisture content of the material, as necessary.

3.04 GRADING

A. Uniformly grade areas within limits of excavations and backfill areas.

END OF SECTION

SECTION 02206

FILL MATERIALS

PART 1 – GENERAL

1.01 WORK SPECIFIED

A. Furnish fill materials, as specified, for the construction of staging and decontamination areas, backfilling of excavations, restoration of surfaces, and other purposes required by the Contract Drawings.

1.02 SUBMITTALS

A. Names, addresses, and any state or local approvals for proposed off-Site sources of general fill.

B. Seed mix and product data for any fertilizers or amendments proposed to be used on-Site.

C. Laboratory test reports for each proposed imported fill material for grain-size profile (ASTM D422).

D. Results of analytical testing for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), pesticides/herbicides, and inorganics using an Owner-approved analytical laboratory and analytical methods. The results shall demonstrate that the proposed materials do not contain constituent concentrations at levels that exceed NYSDEC Program Policy*, DER-10 (Technical Guidance for Site Investigation and Remediation)* soil cleanup objectives for industrial/commercial applications.

1.03 DELIVERY, STORAGE, AND HANDLING

A. Delivery

1. Bills of Lading: A bill of lading shall accompany each load of off-Site fill material delivered to the Site that includes the following information:

    a. Source name and address.

    b. Date.

    c. Name of purchaser.

    d. Transporter name.

    e. Load description (fill material type).

    f. Gross and net weight of load.

B. Storage and Protection:

1. All fill materials shall be staged in locations approved by CM so as not to interfere with and endanger the work, and so that easy access is available at all times to all parts of the Site. Temporary Stockpiles for fill materials shall be kept neatly piled and trimmed, securely covered at all times (during both working and non-working hours) with polyethylene liners

or equal. Stockpiles shall be inspected daily (at a minimum) and any noted deficiencies shall be immediately corrected.

PART 2 – PRODUCTS

2.01 MATERIALS

A. General

1. Satisfactory materials: Soil Classification Groups GW, GP, GM, SW, SP, and SM (as determined by ASTM D2487), or a combination of these groups; free of large rocks or boulders, debris, waste, frozen material, organic matter, and other deleterious materials.
2. Unsatisfactory materials: Soil Classification Groups GC, SC, CL, ML, OL, CD, MH, OM, and PT (as determined by ASTM D2487), or a combination of these groups, unless otherwise required on the Contract Drawings or approved by the CM.
3. Certain on-Site debris and excavated soil may be suitable for on-Site reuse as general fill as determined by the CM.

B. General Fill

1. General fill shall consist of clean common earth fill, well graded, free from excessive moisture, organic material, coatings, sharp angular stones, unsatisfactory fills, and other deleterious materials, with the following gradation limits by weight:

Sieve	Percent Passing
4-inch	100
No. 200	10-30

C. On-Site Materials Subject to Reuse as General Fill

1. Building debris and Site soils identified on the Contract Drawings or determined by CM to be suitable.
2. Designated brick, concrete, and similar debris free of debris/rubble (e.g., metal, wood, plastic, pavement, glass, ash/cinders) and sized to 6-inch minus, unless otherwise approved by CM.
3. Material must be free of visual impacts (staining, sheens, and odors).

D. Type "A" Granular Fill

1. Naturally or artificially graded mixture of natural or crushed gravel, crushed stone, and natural or crushed sand, with the following gradation by weight:

Sieve	Percent Passing
1½-inch	100
1-inch	95-100
½-inch	65-80
¼-inch	40-60
No. 200	0-10

E. Type "B" Granular Fill

1. Thoroughly washed clean, sound, tough, hard crushed limestone or approved equal free from coatings.

2. Type "B" granular fill shall have the following gradation by weight:

Sieve	Percent Passing
1-inch	100
¼-inch	0-15
No. 200	0-5

F. Topsoil

1. Imported topsoil shall be natural, friable, and fertile soil capable of sustaining healthy plant life and reasonably free of subsoil, heavy or stiff clay, brush, roots, weeds, other objectionable plant matter, foreign material, with the gradation by weight:

Sieve	Percent Passing
2-inch	100
1-inch	85-100
¼-inch	65-100
No. 200	10-30

G. Seed

1. See mixture and fertilizer types and applications as recommended by local experts considering the location of the project, Site conditions, and local climate.

2.02 SOURCE QUALITY CONTROL

A. Imported Fill Materials

1. For each imported fill source, the Contractor shall collect one representative composite sample based on the guidelines set forth in Table 5.4(e)10 of DER-10.

a. The laboratory used to analyze the proposed fill materials shall be certified by the New York State Department of Health (NYSDOH) ELAP for the parameters being analyzed.

b. The laboratory shall be capable of providing detection limits at or below the commercial/industrial standards outlined in DER-10 to allow for comparison of the analytical results.

c. Proposed fill materials shall not exceed commercial/industrial standards established in DER-10.

2. Contractor shall provide the analytical data reports to Owner prior to transporting any imported fill materials to the Site.

PART 3 – EXECUTION

NOT USED

END OF SECTION

SECTION 02270

GEOTEXTILE FABRIC

PART 1 – GENERAL

1.01 WORK SPECIFIED

A. Installation of geotextile fabrics as specified in this Section and Contract Drawings and in accordance with the manufacturer's recommendations/specifications.

B. Geotextile fabrics include:

1. Non-Woven Geotextile Fabric – used as a separation layer between Gabion baskets and external fill materials, under temporary access roads, above and below the high-density polyethylene (HDPE) geomembrane liner in decontamination areas.

2. Woven Geotextile Fabric – used as a stabilization layer below temporary access roads.

1.02 SUBMITTALS

A. Non-Woven Geotextile Fabric:

1. Manufacturer's data for the non-woven geotextile fabric including, at a minimum, physical properties, packaging, and installation techniques.

2. Results of QC tests conducted by the manufacturer. QC test results shall include lot and roll identification numbers representative of the field-delivered material. At a minimum, results shall be submitted for:

a. Unit weight
b. Grab tensile strength
c. Grab tensile elongation
d. Trapezoidal tear strength
e. Puncture strength
f. Ultraviolet (UV) resistance

B. Woven Geotextile Fabric:

1. Manufacturer's data for the woven geotextile fabric including, at a minimum, physical properties, packaging, and installation techniques.

2. Results of QC tests conducted by the manufacturer. QC test results shall include lot and roll identification numbers representative of the field-delivered material. At a minimum, results shall be submitted for:

a. Unit weight.
b. Grab tensile strength.
c. Grab tensile elongation.
d. Trapezoidal tear strength.
e. Puncture strength.
f. Permittivity.

g. Apparent opening size (AOS).
h. UV resistance.

1.03 DELIVERY, STORAGE, AND HANDLING

A. Geotextiles shall be furnished in a protective wrapping that shall be labeled with the manufacturer's name, product identification, lot number, roll number, and dimensions.

B. Geotextiles shall be shipped and stored in relatively opaque and watertight wrappings.

C. Geotextile shall be protected from UV light, precipitation, mud, soil, excessive dust, puncture, cutting, and/or other damaging conditions prior to and during delivery and on-Site storage.

D. Geotextiles shall be stored on Site in locations approved by the CM.

PART 2 – PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

A. SKAPS Industries.
B. TenCate Mirafi.
C. U.S. Fabrics.
D. Approved equal.

2.02 MATERIALS

A. Non-Woven Geotextile Fabric:

1. Non-woven geotextile shall be of needle-punched construction and consist of long-chain polymeric fibers or filaments composed of polypropylene. The non-woven geotextile shall be chemically inert to naturally encountered chemicals, acids, and bases, and resist biological degradation.

2. The non-woven geotextile shall meet GRI GT12 specifications and have the following MARVs:

Property	**ASTM Test Method**	**Units**	**MARV1**
Unit Weight	D5261	oz/yd2	12
Grab Tensile Strength	D4632	lb	300
Grab Tensile Elongation	D4632	%	50
Trapezoidal Tear Strength	D4533	lb	115
Puncture Strength	D6241	lb	800
UV Resistance (at 500 hours)	D4355	% strength retained	70

Note:
1. All values are MARVs except UV resistance; it is a minimum value.

B. Woven Geotextile Fabric:

1. Woven geotextile shall be composed of high-tenacity polypropylene yarns woven into a stable network such that the yarns retain their relative position. The woven geotextile shall be chemically inert to naturally encountered chemicals, acids, and bases, and resist biological degradation.

2. The woven geotextile shall meet GRI GT 13 specifications, AASHTO M 288-05 requirements for a Class 1 stabilization geotextile, and have the following MARVs:

Property	**ASTM Test Method**	**Units**	**MARV1**
Unit Weight	D5261	oz/yd^2	6
Grab Tensile Strength	D4632	lb	315
Grab Tensile Elongation	D4632	%	15
Trapezoidal Tear Strength	D4533	lb	112
Puncture Strength	D6241	lb	630
Permittivity	D4491	sec-1	0.02
AOS	D4751	in.	0.024
UV Resistance (at 500 hours)	D4355	% strength retained	50

Note:
All values are MARVs except grab tensile elongation, AOS, and UV resistance. The values for grab tensile elongation and AOS are maximum average roll values and the value for UV resistance is a minimum value.

PART 3– EXECUTION

3.01 SURFACE PREPARATION

A. Prior to installing the geotextile, placement surfaces shall be leveled and uniformly compacted, as necessary and as required by Section 02201 – Earthwork, to provide a stable interface for the geotextile that is as smooth as possible.

B. The sub-grade shall be cleared of all sharp objects, tree stumps, and large stones.

3.02 INSTALLATION

A. Geotextiles shall be placed (rolled out) in the direction of the most frequent vehicular travel.

B. Adjoining edges shall have a minimum overlap of 24-inches and be shingled in a manner that prevents material rollup during placement of cover materials.

C. Placement of the geotextile shall not be conducted during adverse weather conditions. The geotextile shall be kept dry during storage and up to the time of deployment. During windy conditions, all geotextiles shall be secured with sandbags or an equivalent approved anchoring

system. Removal of the sandbags or approved anchoring system shall only occur upon placement of an overlying bedding layer.

D. Proper cutting tools shall be used to cut and size the geotextiles. Care shall be exercised while cutting geotextiles.

E. During the installation, all dirt, dust, sand, and mud shall be kept off the geotextiles to prevent clogging and/or damage.

F. In all cases, seams on slopes shall be parallel to the line of slope. No horizontal seams shall be allowed on slopes.

G. Cover materials shall be placed in a manner that prevents damage to or dislodgement of underlying geosynthetics.

3.03 REPAIR

A. Any holes or tears in the geotextile shall be repaired with a patch made from the same geotextile material. The patch shall be continuously sewn in place with a minimum overlap of 1.5 feet in all directions.

B. Care shall be taken to remove any soil or other material that may have penetrated the torn geotextile.

END OF SECTION

SECTION 02371

SEDIMENT AND EROSION CONTROL

PART 1 – GENERAL

1.01 WORK SPECIFIED

A. All labor, materials, tools, and equipment necessary to construct and maintain temporary sediment and erosion control measures.

1.02 SUBMITTALS

A. Specifications and product data for erosion control materials.

B. Sediment and Erosion Control Plan that includes, but not limited to, the following information:

1. Description of temporary measures (e.g., silt fences, hay bales, wattles) for erosion control for each stage of the Project that may cause soil disturbance. The description will include, as needed, the following items:

    a. Materials of construction (including material types, dimensions, etc.).

    b. Methods of installation and dismantlement.

    c. Proposed sequences for installation and removal of control measures.

    d. Drawings that depict the location and types of erosion and sediment control measures.

2. Description of the procedures for staging and temporarily covering stockpiled materials at the Site for subsequent transport and off-Site disposal by Disposition Contractor, including figures depicting the location(s), materials of construction, and the configuration of the staging areas.

1.03 GENERAL METHODOLOGY

A. Contractor shall consider all factors that contribute to erosion and sedimentation including, but not limited to, the following:

1. Topographic features of the Site.

2. Proposed alteration of the Site.

3. Type and amount of runoff from the Site.

4. Type and amount of run-on to the Site.

5. Staging of earth-moving activities.

6. Stockpile and decontamination areas.

7. Temporary control measures and facilities for use during demolition and other Project activities.

PART 2 – PRODUCTS

2.01 MATERIALS

A. Temporary silt fence

1. Silt fence fabric shall be a woven geotextile meeting the geotextile survivability requirements of AASHTO M288-96 Class 1 or Class 2 with a minimum permeability of 0.2 centimeter per second as tested by Method ASTM D4491 and a maximum AOS of 0.50 millimeter as tested by ASTM D4751.

2. Fence posts shall be standard T or U steel sections or 2- x 2-inch wooden stakes.

B. Staked hay bales

1. Hay bales shall be sound with bale ties intact. Bales shall be firmly packed, unrotted straw bound firmly with baling wire.

2. Hay bales shall be anchored in place with two wooden stakes. The first stake in each bale shall be driven toward the previously laid bale to force the bales together.

C. Wattles

1. Wattles shall be comprised of minimum 12-inch diameter straw confined within secure netting.

2. Wattles shall be anchored in place with wooden stakes placed every 3 feet or as recommended by the manufacturer, whichever is more stringent.

PART 3 – EXECUTION

3.01 SEDIMENT AND EROSION CONTROL MEASURES

A. Contractor is responsible for the installation, inspection, and maintenance of all erosion and sediment controls during the work.

B. All temporary erosion control measures shall be installed and maintained throughout the Site construction activities in accordance with the latest edition of the New York State Standards and Specifications for Erosion and Sediment Control.

C. CM may direct additional erosion and sediment controls to be installed.

3.02 REMOVAL

A. Contractor shall remove temporary controls only with authorization from the CM.

END OF SECTION

APPENDIX D

Certification Statement – Party Conducting Cleanup

Certification Statement – Party Conducting Cleanup

Owner: General Electric Company
Party Conducting Cleanup: General Electric Company
Project: GE Fort Edward, New York Facility Demolition

I, Laurie Scheuing, hereby certify, that all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to assess or characterize the presence, concentrations, and extent of polychlorinated biphenyl- (PCB-) impacted building demolition debris for the buildings subject to demolition at GE's facility located in Fort Edward, New York are on file and available for USEPA inspection at the following location:

General Electric Company
25 Allen Street
Hudson Falls, New York 12839
Contact: Laurie Scheuing

By: Laurie Scheuing

Laurie Scheuing, Project Manager
General Electric Company

Date: September 10, 2019

APPENDIX E

Variance Petition and NYSDOL Decision – Removal of Non-Friable ACM Roofing Utilizing Controlled Demolition

181206

Laurie E. Scheuing, PG, CPG
Manager, Hudson Falls

GE
25 Allen Street
Hudson Falls, NY 12839

M 518 429-4505
Laurie.Scheuing@ge.com

July 6, 2018

Ms. Melissa Dippel
New York State Department of Labor
Division of Safety and Health – Engineering Services Unit
Building 12, Room 159
State Office Campus
Albany, NY 12240

Subject: Petition for Asbestos Variance (Variance Petition) – Removal of Non-Friable ACM Roofing Utilizing Controlled Demolition
General Electric Company, Fort Edward, New York
Site No. 5-58-004; Order on Consent Index No. D5-0001-2000-03

Dear Ms. Dippel,

GE is petitioning the State of New York for relief from the requirements of Part 56 of the Official Compilation of Codes, Rules and Regulations of the State of New York (12 NYCRR Part 56). This petition is being filed due to the safety concerns and difficulties in complying with the provisions of Code Rule 56 as part of a comprehensive remedial action program being overseen and approved by the New York State Department of Environmental Conservation (NYSDEC) and governed by an Administrative Order on Consent pursuant to the New York State Environmental Conservation Law.

The variance requested herein would not violate the spirit, intent, or purpose of the rules and would be protective of the health and safety of the abatement workers, GE employees, contractor employees, the general public, and the environment. We request relief to perform the demolition in compliance with aspects of the controlled demolition procedures in 56-11.5 (c), which will minimize disturbance of the asbestos material from the substrate and maximize safety to the abatement workers.

The facility is a New York State inactive hazardous waste site subject to remedial activities that are reviewed and approved by the NYSDEC. Building demolition activities will be completed pursuant to a Consent Order (Index No. D5-0001-2000-03) between GE and the NYSDEC. A Demolition Work Plan, that will include a Community Air Monitoring Program, will be submitted to the NYSDEC for review and approval prior to commencing work.

For this request, additional relief sought and the proposed method are described below:

Relief Sought and Proposed Method:

1. The material subject to this variance request is non-friable asbestos-containing roof covering with certain portions having detectible concentrations of polychlorinated biphenyls (PCBs). Specifically, the structure of the roof is metal decking coated with a non-friable asbestos-containing roofing vapor barrier material, covered by additional non-asbestos containing roofing layers. Localized asbestos-containing patches are also found on the roof.

2. The roofing system (roofing and underlying structure) will be continuously wetted during demolition activities, containerized, transported, and disposed of in approved open-top containers at a landfill approved to receive PCB-contaminated asbestos-containing material (ACM) waste (e.g., US Ecology, Wayne, Michigan).
3. Due to the waste characteristics of the roof covering material and the necessity to load into open-top containers, the utilization of mechanical methods is necessary and provides the safest means of roofing removal.
4. The subject building will be demolished upon completion of roof removal. The demolition program will be reviewed and approved by the NYSDEC.
5. Friable ACM will have been removed from the subject building prior to commencement of roof removal activities.

Specific Variance
Applicable Section: 56-11.5 (b) (1) Building/Structure is Condemned

We are asking for exemption from this section based on the following:

The underlying structure of the roof is metal decking. In most areas, the asbestos containing component of the roof covering consists of a non-friable bituminous vapor barrier material mopped onto the metal roof deck, which has several overlying roof covering materials. Since the vapor barrier is mopped onto the roof deck, it is very difficult to safely separate this building component; and therefore the most practical and safest approach will be to remove the roof decking and vapor barrier intact using mechanical methods (rather than attempting to separate using manual methods). Additionally, due to the presence of PCBs in the roof covering, the proposed mechanical method is preferred as it will reduce the likelihood of direct contact of the roof covering material by asbestos abatement workers.

This alternate method of asbestos abatement maintains the health and safety of the abatement workers, GE employees, contractor employees, the general public, and the environment. From a practical safety viewpoint, the method proposed is just physically safer to perform for the workers.

We appreciate your assistance with this project and seek NYSDOL approval for this request. Please feel free to contact me at 518-429-4505 if you have any questions or comments.

Sincerely,

Laurie E. Scheuing
Project Manager

Enclosure

Hard Copy:
K. Farrar – NYSDEC
A. Martin - NYSDOH
A. Park - USEPA

Electronic copy only:
B. Gibson - GE
E. Merrifield – GE
B. Rankin – Arcadis
Z. Evans - AECOM

181206

NEW YORK STATE OF OPPORTUNITY. | Department of Labor

Division of Safety and Health
Engineering Services Unit
Harriman State Office Campus
Building 12, Room 154
Albany, NY 12240

Petition for an Asbestos Variance

To apply for an asbestos variance, the Project Designer must:

- Complete all of the information on pages one and two of this asbestos variance request. Please type or print.
- Sign and date page two of the certification and all of the attachments.
- Send two copies of the petition and all attachments, with your $350 fee, to the address at the top of this page.
  - Make your check or money order payable to the Commissioner of Labor.
- Optional: To speed up the process you may include a self-addressed, stamped, express-mail envelope.

1 a. Is this petition related to a safety or health emergency? ____Yes __X__No
b. If yes, explain: _____

2 a. Name of Petitioner (Property Owner): GENERAL ELECTRIC COMPANY
b. Street Address: 381 BROADWAY
c. City: FORT EDWARD d. State: NEW YORK e. Zip: 12828
f. Telephone Number: (518) 429 - 4505 g. Fax Number: (____) ____ - ____
h. Petitioner's Federal Employee Identification Number (FEIN) _____

3 a. Petitioner's Agent (Asbestos Contractor) Firm Name: ARCADIS OF NEW YORK, INC.
b. Street Address: 110 WEST FAYETTE STREET, SUITE 300
c. City: SYRACUSE d. State: NEW YORK e. Zip: 13202
f. Telephone Number: (315) 446 - 9120 g. Fax Number: (315) 449 - 0017

4 a. Asbestos Contractor License No. TO BE DETERMINED b. Name of Firm: TO BE DETERMINED

5. Building Description:
a. Affecting premises known as: GE FORT EDWARD PLANT SITE
b. These premises are situated on the ____North, ____South, ____East, __X__West side of ____Street, BRC Ave, ____Road.
c. County of WASHINGTON
d. Street Address: 381 BROADWAY
e. City: FORT EDWARD f. State: NEW YORK g. Zip: 12828
h. Is building occupied? ____Yes __X__No
i. Current function of building: BUILDING IS UNOCCUPIED AND BEING PREPARED FOR DEMOLITION.
j. Approximate area (square feet) of building: 300,000 k. Number of stories or height in feet: VARIES (1 TO 3)
l. What is within 25 feet of all four sides (North, South, East, West) of building? i.e. sidewalk, alley, land, another building, etc.: NORTH (DRIVEWAY); SOUTH (DRIVEWAY); EAST (PARKING AREA/DRIVEWAY); WEST (PAVED AREA/DRIVEWAY)

6. Order To Comply or Notice of Violation. Attach copy.
a. Issued to: ____Owner ____Asbestos Contractor ____Operator ____Other
b. Name on Order or Notice: _____ c. Date issued: ____/____/____
d. List the Industrial Code Rule (ICR) citations given on the Order to Comply or Notice of Violation: _____

7. If a variance has been granted previously for work closely resembling this project list:
a. Variance number: _____ b. Date variance granted: ____/____/____

Note: Add a separate typed or printed page for each work area and work procedure. Sign and date each page.

8. Work Area Description Table: Attach additional tables and scale drawings of work area and pictures, as needed.

Work Area Designation	Exterior or Interior	Work/Room Area Dimensions	Type of Asbestos Containing Material (ACM)	Quantity of ACM	Condition of ACM (level of damage)	Friability of ACM (non-friable or friable)	Type of Containment (full, 2-layer tent, single layer tent, open-air, etc.)
BUILDING 23	EXTERIOR	VARIOUS	ROOFING	59,520 SF	FAIR	NON-FRIABLE	OPEN AIR
BUILDING 23	EXTERIOR	VARIOUS	HVAC DUCT SEAL	300 SF	FAIR	NON-FRIABLE	OPEN AIR

9. **ICR 56 Relief Sought:** List the individual sections of ICR 56 for which relief is sought, for each work area or method used. Provide sufficient detail in an attachment. 56-165

SEE ATTACHED LETTER FOR DETAILS

10. **Hardship Description:** What is the hardship, (e.g. Limited room for decons, exhaust ducts must be longer than 25 feet, all surfaces are contaminated and cannot be plasticized) for each work area or method used? Provide sufficient detail in an attachment. Include condemnation letter or EPA Approval letter if applicable. SEE ATTACHED LETTER FOR DETAILS

11. **Proposed Abatement Method Description for each work area or method used:** Include scale drawings and pictures as necessary. Lack of sufficient detail will delay issuance of variance decision.
    a. Will proposed abatement methods render non-friable ACM material friable? ____ Yes __X__ No
    b. What proposed abatement method, increased engineering controls and detailed procedures will be used to compensate for the relief being sought? (i.e. increased negative air rate, negative pressure glovebag, negative pressure glovebox, high temperature glovebag, intact component removal, etc.) Include sufficiently detailed procedures to complete the proposed work.

SEE ATTACHED LETTER FOR DETAILS

Project Designer Certification

I request that the Commissioner of Labor issue a variance from the requirements of Industrial Code Rule (ICR) 56. This request is based on the information in this application and the attached documents.

I certify that the information contained in this petition is true and accurate.

I understand that if a variance is granted it may be withdrawn by the Commissioner if:

- Any of the information provided in this petition is found to be inaccurate
- There are violations of Article 30 of the New York State Labor Law or New York State regulations

I give the Commissioner of Labor permission to provide all of my companies records for Unemployment Insurance (UI) reports and contributions to employees of the New York State Department of Labor. This includes information about withholding, wage reporting, UI returns, UI registration, new hires, and all records of UI delinquencies. This information may only be used for government purposes regarding the licensing and certification of this company as required by Article 30 of the New York State Labor Law and the regulations of the New York State Department of Labor, and for monitoring the company's compliance with Article 30 and ICR 56.

12 a. Project designer name (print): CHRISTOPHER ENGLER b. E-mail: christopher.engler@arcadis.com

c. Project Design Asbestos Contractor firm name: ARCADIS OF NEW YORK, INC.

d. Street: 110 WEST FAYETTE STREET, SUITE 300

e. City: SYRACUSE f. State: NY g. Zip: 13202 h. Phone: 315) 409 - 6579

i. Designer certificate number: 90-11379 j. Expiration Date: 07 /31 /2018

k. Design Firm Asbestos Contractor License Number 29366 Expiration Date: 11 /30 /2018

13 a. Project designer signature: Christopher D. Engler b. Date: 7 /6 /2018

Division of Safety and Health
Engineering Services Unit

Department of Labor
W. Averell Harriman State Office Campus
Building 12, Room 154, Albany, NY 12240
www.labor.ny.gov
518-457-1536

September 14, 2018

Arcadis of New York Inc.
110 West Fayette St STE 300
Syracuse, NY 13202

RE: File No. 18-1206

Dear Sir/Madam:

STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH

The attached is a copy of Decision, dated, 9/6/2018, which I have compared with the original filed in this office and which I DO HEREBY CERTIFY to be a correct transcript of the text of the said original.

If you are aggrieved by this decision you may appeal within 60 days from its issuance to the Industrial Board of Appeals as provided by Section 101 of the Labor Law. Your appeal should be addressed to the Industrial Board of Appeals, State Office Building Campus, Building 12, Room 116, Albany, New York, 12240 as prescribed by its Rules and Procedure, a copy of which may be obtained upon request.

WITNESS my hand and the seal of the
NYS Department of Labor, at the City of
Albany, on this day of 9/6/2018.

Edward A. Smith, P.E.
Professional Engineer 2 (Industrial)

STATE OF NEW YORK
DEPARTMENT OF LABOR
STATE OFFICE BUILDING CAMPUS
ALBANY, NEW YORK 12240-0100

Variance Petition

Of

Arcadis of New York, Inc.
Petitioner's Agent On Behalf Of

General Electric Company
Petitioner

in re

Premises: GE Fort Edward Plant Site – Vacant Building
381 Broadway
Fort Edward, NY 12828

Controlled Demolition with ACM In-Place

File No. 18-1206

DECISION

Cases 1-2

ICR 56

The Petitioner, pursuant to Section 30 of the Labor Law, having filed Petition No. 18-1206 on September 05, 2018 with the Commissioner of Labor for a variance from the provisions of Industrial Code Rule 56 as hereinafter cited on the grounds that there are practical difficulties or unnecessary hardship in carrying out the provisions of said Rule; and the Commissioner of Labor having reviewed the submission of the petitioner dated July 06, 2018; and

Upon considering the merits of the alleged practical difficulties or unnecessary hardship and upon the record herein, the Commissioner of Labor does hereby take the following actions:

Case 1 ICR 56-11.5(b)(1)

VARIANCE GRANTED. The Petitioner's proposal is for controlled demolition with asbestos in-place at the subject premises in accordance with the attached 04-page stamped copy of the Petitioner's submittal, is accepted; subject to the Conditions noted below:

THE CONDITIONS

1. A full-time project monitor shall be on site and responsible for oversight of the abatement contractor during all abatement activities to ensure compliance with ICR 56 and variance conditions.

2. The Project Monitor shall perform the following functions during asbestos abatement projects in addition to functions already required by ICR-56:

   a. Inspect of the interior of the asbestos project work area made at least twice every work shift accompanied by the Asbestos Supervisor;
   b. Observe and monitor the activities of the asbestos abatement contractor to determine that proper work practices are used and are in compliance with all asbestos laws and regulations;
   c. Inform the asbestos abatement contractor of work practices that, in the Project Monitor's opinion, pose a threat to public health or the environment, and are not in compliance with ICR-56 and/or approved variances or other applicable rules and/or regulations;
   d. Document in the Project Monitor Log observations and recommendations made to the Asbestos Supervisor based upon the interior/exterior observations of the asbestos project made by the PM.

3. The PM shall alert the nearest District Office of the NYSDOL Asbestos Control Bureau whenever, after the PM has provided recommendations to the Asbestos Supervisor, unresolved conditions remain at the asbestos project which present significant potential to adversely human health or the environment.

4. All generated waste removed from the site must be documented, accounted for and disposed of in compliance with the requirements of NESHAPS and NYSDEC.

Removal of all Friable ACM, Transite/Cement Board & Other Non-friable ACM Prior to Controlled Demolition

5. All friable ACM, non-friable transite/cement board (using intact methods as long as the matrix of transite material has not been disturbed in accordance with the submitted petition), and other non-friable ACM that will likely become

crumbled, pulverized, or reduced to powder during controlled demolition at the subject premises shall be removed in accordance with ICR 56 and this variance decision, including obtaining satisfactory clearance air results for all regulated abatement work areas (as necessary), prior to the commencement of this controlled demolition asbestos project. **REMOVALS SHALL ONLY BE DONE IF WORKER SAFETY IS NOT ENDANGERED DOING SO. OTHERWISE, FULL COMPLIANCE WITH ICR 56-11.5 IS REQUIRED.**

Secure the Work Site

6. The entire controlled demolition area and all surrounding portions of the site to be utilized for demolition cleanup, staging areas and regulated abatement work areas, shall be enclosed within a barrier or fence. The intent of this barrier is to define the restricted area at the work site, alert the public to the asbestos work and associated hazards, and to prevent unauthorized entry onto the work site.

Establishment of Regulated Areas

7. The regulated work areas, decontamination units, airlocks, and dumpster areas shall be cordoned off at a distance of twenty-five feet (25') where possible, and shall remain vacated except for certified workers until satisfactory clearance air monitoring results have been achieved or the abatement project is complete. These areas shall have Signage posted in accordance with Subpart 56-7.4(c) of this Code Rule. For areas where twenty-five feet isn't possible, the areas shall be cordoned off as practical, and a daily abatement air sample shall be included at the reduced barrier.

8. Entry/Exit of all persons and equipment shall be through one designated and secure "doorway" in the barrier or fence, which shall provide an adequate and appropriate means of egress from the work site.

9. All adjacent building openings within twenty-five (25) feet of the outermost limit of the disturbance shall be sealed with two (2) layers of six (6) mil fire retardant plastic sheeting. If the owner of an adjacent building does not allow openings to be sealed as required, the asbestos abatement contractor's supervisor must document the issue within the daily project log, and have the affected building owner sign the log confirming that the owner will not allow the asbestos abatement contractor to seal the openings in the building as required. In addition, a daily abatement air sample shall be included within ten feet of the affected portion of the adjacent building

Controlled Demolition Removals

10. The provisions of 56-11.5 shall be followed for all controlled demolition removals, except as modified by this variance.

11. Decontamination system enclosures and areas shall be constructed and utilized as per the requirements of 56-7.5(d) and 56-11.5.

12. Uncertified personnel shall not be allowed to access any regulated abatement work area, with the exception of waste hauler truck drivers. These truck drivers will be restricted to their enclosed cab, while temporarily in the regulated work area for waste transfer activities only. All equipment operators utilized for demolition or removal activities within the regulated work area must be certified in compliance with ICR 56-3.2.

13. No dry disturbance or removal of asbestos material shall be permitted.

14. Wastewater shall be confined within the controlled demolition area as required by ICR56-11.5(c)(10). Water may be allowed to accumulate in basements during demolition activities.

15. All decontamination areas shall be within the regulated abatement work area. An equipment decontamination area shall be cordoned off within the worksite for cleaning of heavy equipment, i.e., backhoes, excavators, loaders, etc. The ground surface in this decontamination area shall be banked on the sides to confine the contaminated wastewater.

16. All demolition debris, structural members, barrier components, used filters and similar items shall be considered to be asbestos containing materials/asbestos contaminated waste and shall be transported and disposed of by appropriate legal method. Structural members, steel components and similar non-ACM components shall be fully decontaminated as per ICR 56, prior to being treated as salvage.

17. All material shall be treated as RACM including soil around and beneath the demolition abatement area, except for structural members, steel components and similar non-porous and non-suspect items that can be fully decontaminated.

18. Non-porous cleanable objects/materials, non-ACM material (concrete, structural steel members, metal components and similar non-suspect materials) may be fully decontaminated for disposal by appropriate legal methods. Prior to disposal, the Project Monitor shall verify that the material has been properly cleaned/decontaminated.

19. In addition to the requirement of Subpart 56-4.9(b-c), air monitoring within the work area shall be conducted daily during demolition and decontamination activities. Two (2) additional daily air samples shall be collected within the work area in the immediate vicinity of potential disturbance activities. The inside work area air samples shall be collected for each entire workshift with

the samples locations being distributed both upwind and downwind of the daily abatement activity.

20. Daily abatement air monitoring is required only on days when abatement or support activities such as ACM disturbance or cleaning activities are performed.

21. In lieu of post-abatement clearance air monitoring in compliance with ICR-56-9.2(d), the most recent daily abatement air samples collected during removal and cleaning operations in the regulated work area, shall be used for comparison with ICR 56-4.11 clearance criteria. All other applicable provisions of ICR 56-4 shall be followed for the duration of the abatement project.

22. After removal and cleanings are complete and a minimum drying period has elapsed, the Project Monitor shall determine if the area is dry and free of visible asbestos debris/residue. If the area is determined to be acceptable and the most recent daily abatement air sample results meet 56-4.11 clearance criteria, the final dismantling of the site may begin.

23. Usage of this variance is limited to those asbestos removals identified in this variance or as outlined in the Petitioner's proposal.

. In addition to the conditions required by the above specific variances, the Petitioner shall also comply with the following general conditions:

GENERAL CONDITIONS

1. A copy of this DECISION and the Petitioner's proposals shall be conspicuously displayed at the entrance to the personal decontamination enclosure.

2. This DECISION shall apply only to the removal of asbestos-containing materials from the aforementioned areas of the subject premises.

3. The Petitioner shall comply with all other applicable provisions of Industrial Code Rule 56-1 through 56-12.

4. The NYS Department of Labor Engineering Service Unit retains full authority to interpret this variance for compliance herewith and for compliance with Labor Law Article 30. Any deviation to the conditions leading to this variance shall render this variance Null and Void pursuant to 12NYCRR 56-12.2. Any questions regarding the conditions supporting the need for this variance and/or regarding compliance hereto must be directed to the Engineering Services Unit for clarification.

5. This DECISION shall terminate on **September 30, 2019**.

Date: September 6, 2018

ROBERTA L. REARDON
COMMISSIONER OF LABOR

By

Edward A. Smith, P.E.
Professional Engineer 2 (Industrial)

PREPARED BY: Mark G. Wykes, P.E.
Professional Engineer 1 (Industrial)

REVIEWED BY: Edward A. Smith, P.E.
Professional Engineer 2 (Industrial)

190563

Laurie E. Scheuing, PG, CPG
Project Manager

GE
25 Allen Street
Hudson Falls, NY 12839

M 518 429-4505
Laurie.Scheuing@ge.com

April 23, 2019

Ms. Melissa Dippel
New York State Department of Labor
Division of Safety and Health – Engineering Services Unit
Building 12, Room 159
State Office Campus
Albany, New York 12240

Subject: **Petition for Asbestos Variance (Variance Petition) – Removal of Non-Friable ACM Roofing Utilizing Controlled Demolition – Building 29**
General Electric Company, Fort Edward, New York
Site No. 5-58-004; Consent Index No. D5-0001-2000-03

Dear Ms. Dippel:

GE is petitioning the State of New York for relief from the requirements of Part 56 of the Official Compilation of Codes, Rules and Regulations of the State of New York (12 NYCRR Part 56). This petition is being filed due to the safety concerns and difficulties in complying with the provisions of Code Rule 56 as part of a comprehensive remedial action program being overseen and approved by the New York State Department of Environmental Conservation (NYSDEC) and governed by an Order on Consent pursuant to the New York State Environmental Conservation Law.

The variance requested herein would not violate the spirit, intent, and purpose of the rules and would be protective of the health and safety of the abatement workers, GE employees, contractor employees, the general public, and the environment. We request relief to perform the demolition in compliance with aspects of the controlled demolition procedures in 56-11.5(c), which will minimize disturbance of the asbestos material from the substrate and maximize safety to the abatement workers.

The facility is a New York State inactive hazardous waste site (Site No. 5-58-004) subject to remedial activities, including building demolition, that are reviewed and approved by the NYSDEC. Building demolition activities will be completed pursuant to a Consent Order (Index No. D5-0001-2000-03) between GE and the NYSDEC. Details of the building demolition activities have been provided in the *Self-Implementing Cleanup and Disposal Plan for PCB Remediation Waste – Building Demolition* (Demolition Work Plan), which was submitted to the NYSDEC and United States Environmental Protection Agency (USEPA) for review and approval on February 28, 2019 and was approved by the USEPA on March 28, 2019. In addition, the *Community Air Monitoring Plan – Demolition of Existing Buildings* (CAMP) was submitted to the NYSDEC for review and approval on October 22, 2018. Comments were received from the NYSDEC on February 15, 2019 and GE is preparing revisions to the CAMP.

For this request, additional relief sought and the proposed method are described below:

Relief Sought and Proposed Method:

1. The material subject to this variance request is non-friable asbestos-containing roof covering, with certain portions having detectible concentrations of

polychlorinated biphenyls (PCBs) at levels not regulated under the Toxic Substances Control Act (TSCA) (i.e., less than 50 part per million). Specifically, the structure of the roof consists of decking covered by non-asbestos containing rolled asphalt roofing with a nonfriable asbestos-containing flashing cement material applied throughout.

2. The roofing system (roofing and underlying structure) will be continuously wetted during demolition activities, containerized, transported, and disposed of in approved open-top containers at a landfill approved to receive non-TSCA, PCB-containing asbestos-containing material (ACM) waste.
3. Due to the waste characteristics of the roof covering material and the necessity to load into open-top containers, the utilization of mechanical methods is necessary and provides the safest means of roofing removal.
4. The subject building will be demolished upon completion of roof removal. The demolition program will be reviewed and approved by the NYSDEC.
5. Friable ACM has been previously removed, however if additional material is encountered, it will be removed prior to commencement of roof removal activities.

Specific Variance
Applicable Section: 56-11.5(b)(1) Building/Structure is Condemned

We are asking for exemption from this section based on the following:

The underlying structure of the roof is metal decking. The asbestos-containing component of the roof covering consists of a non-friable asbestos-containing flashing cement material applied throughout the non-asbestos containing rolled asphalt roofing. Due to the inability to effectively separate the non-asbestos-containing rolled asphalt roofing from the asbestos-containing flashing cement, the most practical and safest approach will be to remove the roof decking and flashing cement intact using mechanical methods (rather than attempting to separate using manual methods). Additionally, due to the presence of PCBs in the roof covering, the proposed mechanical method is preferred as it will reduce the likelihood of direct contact of the roof covering material by asbestos abatement workers.

This alternate method of asbestos abatement maintains the health and safety of the abatement workers, GE employees, contractor employees, the general public, and the environment. From a practical safety viewpoint, the method proposed is just physically safer to perform for the workers.

We appreciate your assistance with this project and seek NYSDOL approval for this request. Please feel free to contact me at 518-429-4505 if you have any questions or comments.

Sincerely,

Laurie Scheuing

Laurie Scheuing
Project Manager

cc: Paper Copy:
K. Farrar - NYSDEC
C. Vooris – NYSDOH
A. Park – USEPA

Electronic Copies:
E. Merrifield – GE
B. Gibson – GE
D. Sommer - Young Sommer
J. Nuss - Arcadis
Z. Evans – AECOM

NEW YORK STATE OF OPPORTUNITY. Department of Labor

Division of Safety and Health
Engineering Services Unit
Harriman State Office Campus
Building 12, Room 154
Albany, NY 12240

Petition for an Asbestos Variance

To apply for an asbestos variance, the Project Designer must:

- Complete all of the information on pages one and two of this asbestos variance request. Please type or print.
- Sign and date page two of the certification and all of the attachments.
- Send two copies of the petition and all attachments, with your $350 fee, to the address at the top of this page.
  - Make your check or money order payable to the Commissioner of Labor.
- Optional: To speed up the process you may include a self-addressed, stamped, express-mail envelope.

1 a. **Is this petition related to a safety or health emergency?** _____Yes ___X__No
b. If yes, explain: _____

2 a. **Name of Petitioner (Property Owner):** GENERAL ELECTRIC COMPANY
b. Street Address: 381 BROADWAY
c. City: FORT EDWARD d. State: NEW YORK e. Zip: 12828
f. Telephone Number: (518) 429 - 4505 g. Fax Number: (_____) _____ - _____
h. Petitioner's Federal Employee Identification Number (FEIN) _____

3 a. **Petitioner's Agent (Asbestos Contractor) Firm Name:** ARCADIS OF NEW YORK, INC.
b. Street Address: 110 WEST FAYETTE STREET, SUITE 300
c. City: SYRACUSE d. State: NEW YORK e. Zip: 13202
f. Telephone Number: (315) 446 - 9120 g. Fax Number: (315) 449 - 0017

4 a. **Asbestos Contractor License No.** TO BE DETERMINED b. Name of Firm: TO BE DETERMINED

5. **Building Description:**
a. Affecting premises known as: GE FORT EDWARD PLANT SITE
b. These premises are situated on the ____North, ____South, ____East, __X__West side of ____Street, BROADWAY Ave, ____Road.
c. County of WASHINGTON
d. Street Address: 381 BROADWAY
e. City: FORT EDWARD f. State: NEW YORK g. Zip: 12828
h. Is building occupied? _____Yes ____X__No
i. Current function of building: BUILDING IS UNOCCUPIED AND BEING PREPARED FOR DEMOLITION.
j. Approximate area (square feet) of building: 300,000 k. Number of stories or height in feet: VARIES (ONE TO THREE)
l. What is within 25 feet of all four sides (North, South, East, West) of building? i.e. sidewalk, alley, land, another building, etc.: NORTH (DRIVEWAY); SOUTH (DRIVEWAY); EAST (PARKING AREA/DRIVEWAY); WEST (PAVED AREA/DRIVEWAY)

6. **Order To Comply or Notice of Violation.** Attach copy.
a. Issued to: _____Owner _____Asbestos Contractor _____Operator _____Other
b. Name on Order or Notice: _____ c. Date issued: _____/_____/_____
d. List the Industrial Code Rule (ICR) citations given on the Order to Comply or Notice of Violation: _____

7. **If a variance has been granted previously for work closely resembling this project list:**
a. Variance number: 18-1206 b. Date variance granted: 09 / 06 / 2018

Note: Add a separate typed or printed page for each work area and work procedure. Sign and date each page.

8. **Work Area Description Table:** Attach additional tables and scale drawings of work area and pictures, as needed.

Work Area Designation	Exterior or Interior	Work/Room Area Dimensions	Type of Asbestos Containing Material (ACM)	Quantity of ACM	Condition of ACM (level of damage)	Friability of ACM (non-friable or friable)	Type of Containment (full, 2-layer tent, single layer tent, open-air, etc.)
BUILDING 29	EXTERIOR	VARIOUS	RUBBER ROOF SEAM SEALANT (THROUGHOUT MAIN ROOF FIELD)	2,264 SF	FAIR	NON-FRIABLE	OPEN AIR

9. **ICR 56 Relief Sought:** List the individual sections of ICR 56 for which relief is sought, for each work area or method used. Provide sufficient detail in an attachment. 56-11.5

SEE ATTACHED LETTER FOR DETAILS

10. **Hardship Description:** What is the hardship, (e.g. Limited room for decons, exhaust ducts must be longer than 25 feet, all surfaces are contaminated and cannot be plasticized) for each work area or method used? Provide sufficient detail in an attachment. Include condemnation letter or EPA Approval letter if applicable. SEE ATTACHED LETTER FOR DETAILS

11. **Proposed Abatement Method Description for each work area or method used:** Include scale drawings and pictures as necessary. Lack of sufficient detail will delay issuance of variance decision.
    a. Will proposed abatement methods render non-friable ACM material friable? _____ Yes __X__ No
    b. What proposed abatement method, increased engineering controls and detailed procedures will be used to compensate for the relief being sought? (i.e. Increased negative air rate, negative pressure glovebag, negative pressure glovebox, high temperature glovebag, intact component removal, etc.) Include sufficiently detailed procedures to complete the proposed work.

CONTINUOUS WETTING OF NON-FRIABLE ACM

Project Designer Certification

I request that the Commissioner of Labor issue a variance from the requirements of Industrial Code Rule (ICR) 56. This request is based on the information in this application and the attached documents.

I certify that the information contained in this petition is true and accurate.

I understand that if a variance is granted it may be withdrawn by the Commissioner if:

- Any of the information provided in this petition is found to be inaccurate
- There are violations of Article 30 of the New York State Labor Law or New York State regulations

I give the Commissioner of Labor permission to provide all of my companies records for Unemployment Insurance (UI) reports and contributions to employees of the New York State Department of Labor. This includes information about withholding, wage reporting, UI returns, UI registration, new hires, and all records of UI delinquencies. This information may only be used for government purposes regarding the licensing and certification of this company as required by Article 30 of the New York State Labor Law and the regulations of the New York State Department of Labor, and for monitoring the company's compliance with Article 30 and ICR 56.

12 a. Project designer name (print): CHRISTOPHER ENGLER b. E-mail: christopher.engler@arcadis.com

c. Project Design Asbestos Contractor firm name: ARCADIS OF NEW YORK, INC.

d. Street: 110 WEST FAYETTE STREET, SUITE 300

e. City: SYRACUSE f. State: NY g. Zip: 13202 h. Phone: (315) 409 - 6579

i. Designer certificate number: 90-11379 j. Expiration Date: 07 / 31 / 2019

k. Design Firm Asbestos Contractor License Number 29366 l. Expiration Date: 11 / 30 / 2019

13 a. Project designer signature: Christopher D. Engler b. Date: 4 / 17 / 2019

NEW YORK STATE OF OPPORTUNITY. Department of Labor

Andrew M. Cuomo, Governor
Roberta L. Reardon, Commissioner

May 1, 2019

ARCADIS of NY Inc.
110 West Fayette Street STE 300
Syracuse, NY 13202

RE: File No. 19-0563

Dear Sir/Madam:

STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH

The attached is a copy of Decision, dated, , which I have compared with the original filed in this office and which I DO HEREBY CERTIFY to be a correct transcript of the text of the said original.

If you are aggrieved by this decision you may appeal within 60 days from its issuance to the Industrial Board of Appeals as provided by Section 101 of the Labor Law. Your appeal should be addressed to the Industrial Board of Appeals, State Office Building Campus, Building 12, Room 116, Albany, New York, 12240 as prescribed by its Rules and Procedure, a copy of which may be obtained upon request.

WITNESS my hand and the seal of the NYS Department of Labor, at the City of Albany, on this day of .

Edward A. Smith, P.E.
Professional Engineer 2 (Industrial)

STATE OF NEW YORK
DEPARTMENT OF LABOR
STATE OFFICE BUILDING CAMPUS
ALBANY, NEW YORK 12240-0100

Variance Petition

of

Arcadis of NY, Inc.
Petitioner's Agent on Behalf of

General Electric Company
Petitioner

in re

Premises: GE Fort Edward Plant Bldg. 29
381 Broadway
Fort Edward, New York 12828

Controlled Demolition Removal with Non-friable ACM Remaining in Place

File No. 19-0563

DECISION

Cases 1-6

ICR 56

The Petitioner, pursuant to Section 30 of the Labor Law, having filed Petition No. 19-0563 on April 26, 2019 with the Commissioner of Labor for a variance from the provisions of Industrial Code Rule 56 as hereinafter cited on the grounds that there are practical difficulties or unnecessary hardship in carrying out the provisions of said Rule; and the Commissioner of Labor having reviewed the submission of the petitioner dated April 17, 2019; and

Upon considering the merits of the alleged practical difficulties or unnecessary hardship and upon the record herein, the Commissioner of Labor does hereby take the following actions:

Case No. 1 ICR 56-11.5 (b) (1)

VARIANCE GRANTED. The Petitioner's proposal for controlled demolition removal of non-friable roofing materials at the subject premises in accordance with the attached 2-page stamped copy of the Petitioner's submittal, is accepted; subject to the Conditions noted below:

THE CONDITIONS

Removal of all Friable ACM, Transite/Cement Board & Category II Non-friable ACM Prior to Controlled Demolition

1. All friable ACM, non-friable transite/cement board, and Category II non-friable ACM shall be removed in accordance with ICR 56 and this variance decision, including obtaining satisfactory clearance air results for all regulated abatement work areas (as necessary), prior to the commencement of this controlled demolition asbestos project. Category I non-friable ACM that will likely become crumbled, pulverized, or reduced to powder during the demolition shall also be removed.

Controlled Demolition Removals

2. The provisions of 56-11.5 (a, c) shall be followed for this controlled demolition project, except as modified by this variance.

3. Decontamination system enclosures and areas shall be constructed and utilized as per the requirements of 56-7.5(d) and 56-11.5.

4. Uncertified personnel shall not be allowed to access any regulated abatement work area, with the exception of waste hauler truck drivers. These truck drivers will be restricted to their enclosed cab, while temporarily in the regulated work area for waste transfer activities only. All equipment operators utilized for demolition or removal activities within the regulated work area must be certified in compliance with ICR 56-3.2.

5. All barrier components, used filters, disposable PPE and similar items shall be considered to be asbestos containing materials/asbestos contaminated waste and treated as RACM and disposed of accordingly.

6. All demolition debris and structural members that have not been rendered friable shall be disposed of as construction debris at a landfill authorized to accept construction and demolition debris.

7. Non-porous items such as structural steel members and metal piping that can be fully decontaminated may be salvaged. The Project Monitor shall determine if the material is fully decontaminated prior to removal from the site.

8. After removal and cleanings are complete an authorized and qualified Project Monitor shall visually inspect the work area as per ICR 56-9.2 (e). If the area is determined to be acceptable and the most recent daily abatement air sample results meet 56-4.11 clearance criteria, the final dismantling of the site may begin.

9. Usage of this variance is limited to those asbestos removals identified in this variance or as outlined in the Petitioner's proposal.

In addition to the conditions required by the above specific variances, the Petitioner shall also comply with the following general conditions:

GENERAL CONDITIONS

1. A copy of this DECISION and the Petitioner's proposals shall be conspicuously displayed at the entrance to the personal decontamination enclosure.

2. This DECISION shall apply only to the removal of asbestos-containing materials from the aforementioned areas of the subject premises.

3. The Petitioner shall comply with all other applicable provisions of Industrial Code Rule 56-1 through 56-12.

4. The NYS Department of Labor Engineering Service Unit retains full authority to interpret this variance for compliance herewith and for compliance with Labor Law Article 30. Any deviation to the conditions leading to this variance shall render this variance Null and Void pursuant to 12NYCRR 56-12.2. Any questions regarding the conditions supporting the need for this variance and/or regarding compliance hereto must be directed to the Engineering Services Unit for clarification.

5. This DECISION shall terminate on April 30, 2020.

Date: May 1, 2019

ROBERTA L. REARDON
COMMISSIONER OF LABOR

By

Edward A. Smith, P.E.
Professional Engineer 2 (Industrial)

PREPARED BY: Edward A. Smith, P.E.
Professional Engineer 2 (Industrial)

REVIEWED BY: Ravi Pilar, P.E.
Professional Engineer 1 (Industrial)

190565

Laurie E. Scheuing, PG, CPG
Project Manager

GE
25 Allen Street
Hudson Falls, NY 12839

M 518 429-4505
Laurie.Scheuing@ge.com

April 23, 2019

Ms. Melissa Dippel
New York State Department of Labor
Division of Safety and Health – Engineering Services Unit
Building 12, Room 159
State Office Campus
Albany, New York 12240

Subject: **Petition for Asbestos Variance (Variance Petition) – Removal of Non-Friable ACM Roofing Utilizing Controlled Demolition – Building 31**
General Electric Company, Fort Edward, New York
Site No. 5-58-004; Consent Index No. D5-0001-2000-03

Dear Ms. Dippel:

GE is petitioning the State of New York for relief from the requirements of Part 56 of the Official Compilation of Codes, Rules and Regulations of the State of New York (12 NYCRR Part 56). This petition is being filed due to the safety concerns and difficulties in complying with the provisions of Code Rule 56 as part of a comprehensive remedial action program being overseen and approved by the New York State Department of Environmental Conservation (NYSDEC) and governed by an Order on Consent pursuant to the New York State Environmental Conservation Law.

The variance requested herein would not violate the spirit, intent, and purpose of the rules and would be protective of the health and safety of the abatement workers, GE employees, contractor employees, the general public, and the environment. We request relief to perform the demolition in compliance with aspects of the controlled demolition procedures in 56-11.5(c), which will minimize disturbance of the asbestos material from the substrate and maximize safety to the abatement workers.

The facility is a New York State inactive hazardous waste site (Site No. 5-58-004) subject to remedial activities, including building demolition, that are reviewed and approved by the NYSDEC. Building demolition activities will be completed pursuant to a Consent Order (Index No. D5-0001-2000-03) between GE and the NYSDEC. Details of the building demolition activities have been provided in the *Self-Implementing Cleanup and Disposal Plan for PCB Remediation Waste – Building Demolition* (Demolition Work Plan), which was submitted to the NYSDEC and United States Environmental Protection Agency (USEPA) for review and approval on February 28, 2019 and was approved by the USEPA on March 28, 2019. In addition, the *Community Air Monitoring Plan – Demolition of Existing Buildings* (CAMP) was submitted to the NYSDEC for review and approval on October 22, 2018. Comments were received from the NYSDEC on February 15, 2019 and GE is preparing revisions to the CAMP.

For this request, additional relief sought and the proposed method are described below:

Relief Sought and Proposed Method:

1. The material subject to this variance request is non-friable asbestos-containing roof covering, with certain portions having detectible concentrations of

polychlorinated biphenyls (PCBs) at levels not regulated under the Toxic Substances Control Act (TSCA) (i.e., less than 50 part per million). Specifically, the structure of the roof consists of decking covered by non-asbestos containing rolled asphalt roofing with a nonfriable asbestos-containing flashing cement material applied throughout.

2. The roofing system (roofing and underlying structure) will be continuously wetted during demolition activities, containerized, transported, and disposed of in approved open-top containers at a landfill approved to receive non-TSCA, PCB-containing asbestos-containing material (ACM) waste.
3. Due to the waste characteristics of the roof covering material and the necessity to load into open-top containers, the utilization of mechanical methods is necessary and provides the safest means of roofing removal.
4. The subject building will be demolished upon completion of roof removal. The demolition program will be reviewed and approved by the NYSDEC.
5. Friable ACM has been previously removed, however if additional material is encountered, it will be removed prior to commencement of roof removal activities.

Specific Variance
Applicable Section: 56-11.5(b)(1) Building/Structure is Condemned

We are asking for exemption from this section based on the following:

The underlying structure of the roof is metal decking. The asbestos-containing component of the roof covering consists of a non-friable asbestos-containing flashing cement material applied throughout the non-asbestos containing rolled asphalt roofing. Due to the inability to effectively separate the non-asbestos-containing rolled asphalt roofing from the asbestos-containing flashing cement, the most practical and safest approach will be to remove the roof decking and flashing cement intact using mechanical methods (rather than attempting to separate using manual methods). Additionally, due to the presence of PCBs in the roof covering, the proposed mechanical method is preferred as it will reduce the likelihood of direct contact of the roof covering material by asbestos abatement workers.

This alternate method of asbestos abatement maintains the health and safety of the abatement workers, GE employees, contractor employees, the general public, and the environment. From a practical safety viewpoint, the method proposed is just physically safer to perform for the workers.

We appreciate your assistance with this project and seek NYSDOL approval for this request. Please feel free to contact me at 518-429-4505 if you have any questions or comments.

Sincerely,

Laurie Scheuing

Laurie Scheuing
Project Manager

cc: Paper Copy:
K. Farrar - NYSDEC
C. Vooris – NYSDOH
A. Park – USEPA

Electronic Copies:
E. Merrifield – GE
B. Gibson – GE
D. Sommer – Young Sommer
J. Nuss - Arcadis
Z. Evans – AECOM

NEW YORK STATE OF OPPORTUNITY. Department of Labor

Division of Safety and Health
Engineering Services Unit
Harriman State Office Campus
Building 12, Room 154
Albany, NY 12240

Petition for an Asbestos Variance

To apply for an asbestos variance, the Project Designer must:

- Complete all of the information on pages one and two of this asbestos variance request. Please type or print.
- Sign and date page two of the certification and all of the attachments.
- Send two copies of the petition and all attachments, with your $350 fee, to the address at the top of this page.
  - Make your check or money order payable to the Commissioner of Labor.
- Optional: To speed up the process you may include a self-addressed, stamped, express-mail envelope.

1 a. **Is this petition related to a safety or health emergency?** _____Yes ___X__No
b. If yes, explain: _____

2 a. **Name of Petitioner (Property Owner):** GENERAL ELECTRIC COMPANY
b. Street Address: 381 BROADWAY
c. City: FORT EDWARD d. State: NEW YORK e. Zip: 12828
f. Telephone Number: (518) 429 - 4505 g. Fax Number: (_____) _____ - _____
h. Petitioner's Federal Employee Identification Number (FEIN) _____

3 a. **Petitioner's Agent (Asbestos Contractor) Firm Name:** ARCADIS OF NEW YORK, INC.
b. Street Address: 110 WEST FAYETTE STREET, SUITE 300
c. City: SYRACUSE d. State: NEW YORK e. Zip: 13202
f. Telephone Number: (315) 446 - 9120 g. Fax Number: (315) 449 - 0017

4 a. **Asbestos Contractor License No.** TO BE DETERMINED b. Name of Firm: TO BE DETERMINED

5. **Building Description:**
a. Affecting premises known as: GE FORT EDWARD PLANT SITE
b. These premises are situated on the ____North, ____South, ____East, __X__West side of ____Street, BROADWAY Ave, ____Road.
c. County of WASHINGTON
d. Street Address: 381 BROADWAY
e. City: FORT EDWARD f. State: NEW YORK g. Zip: 12828
h. Is building occupied? _____Yes ____X__No
i. Current function of building: BUILDING IS UNOCCUPIED AND BEING PREPARED FOR DEMOLITION.
j. Approximate area (square feet) of building: 300,000 k. Number of stories or height in feet: VARIES (1 TO 3)
l. What is within 25 feet of all four sides (North, South, East, West) of building? i.e. sidewalk, alley, land, another building, etc.: NORTH (DRIVEWAY); SOUTH (DRIVEWAY); EAST (PARKING AREA/DRIVEWAY); WEST (PAVED AREA/DRIVEWAY)

6. **Order To Comply or Notice of Violation.** Attach copy.
a. Issued to: _____Owner _____Asbestos Contractor _____Operator _____Other
b. Name on Order or Notice: _____ c. Date issued: _____/_____/_____
d. List the Industrial Code Rule (ICR) citations given on the Order to Comply or Notice of Violation: _____

7. **If a variance has been granted previously for work closely resembling this project list:**
a. Variance number: 18-1206 b. Date variance granted: 09 / 06 / 2018

Note: Add a separate typed or printed page for each work area and work procedure. Sign and date each page.

8. **Work Area Description Table:** Attach additional tables and scale drawings of work area and pictures, as needed.

Work Area Designation	Exterior or Interior	Work/Room Area Dimensions	Type of Asbestos Containing Material (ACM)	Quantity of ACM	Condition of ACM (level of damage)	Friability of ACM (non-friable or friable)	Type of Containment (full, 2-layer tent, single layer tent, open-air, etc.)
BUILDING 31	EXTERIOR	VARIOUS	ROLLED ASPHALT ROOFING & FLASHING CEMENT (THROUGHOUT MAIN ROOF FIELD)	8,296 SF	FAIR	NON-FRIABLE	OPEN AIR

9. **ICR 56 Relief Sought:** List the individual sections of ICR 56 for which relief is sought, for each work area or method used. Provide sufficient detail in an attachment. 56-11.5

SEE ATTACHED LETTER FOR DETAILS

10. **Hardship Description:** What is the hardship, (e.g. Limited room for decons, exhaust ducts must be longer than 25 feet, all surfaces are contaminated and cannot be plasticized) for each work area or method used? Provide sufficient detail in an attachment. Include condemnation letter or EPA Approval letter if applicable. SEE ATTACHED LETTER FOR DETAILS

11. **Proposed Abatement Method Description for each work area or method used:** Include scale drawings and pictures as necessary. Lack of sufficient detail will delay issuance of variance decision.
    a. Will proposed abatement methods render non-friable ACM material friable? _____ Yes __X__ No
    b. What proposed abatement method, increased engineering controls and detailed procedures will be used to compensate for the relief being sought? (i.e. Increased negative air rate, negative pressure glovebag, negative pressure glovebox, high temperature glovebag, intact component removal, etc.) Include sufficiently detailed procedures to complete the proposed work.

CONTINUOUS WETTING OF NON-FRIABLE ACM

Project Designer Certification

I request that the Commissioner of Labor issue a variance from the requirements of Industrial Code Rule (ICR) 56. This request is based on the information in this application and the attached documents.

I certify that the information contained in this petition is true and accurate.

I understand that if a variance is granted it may be withdrawn by the Commissioner if:

- Any of the information provided in this petition is found to be inaccurate
- There are violations of Article 30 of the New York State Labor Law or New York State regulations

I give the Commissioner of Labor permission to provide all of my companies records for Unemployment Insurance (UI) reports and contributions to employees of the New York State Department of Labor. This includes information about withholding, wage reporting, UI returns, UI registration, new hires, and all records of UI delinquencies. This information may only be used for government purposes regarding the licensing and certification of this company as required by Article 30 of the New York State Labor Law and the regulations of the New York State Department of Labor, and for monitoring the company's compliance with Article 30 and ICR 56.

12 a. Project designer name (print): CHRISTOPHER ENGLER b. E-mail: christopher.engler@arcadis.com

c. Project Design Asbestos Contractor firm name: ARCADIS OF NEW YORK, INC.

d. Street: 110 WEST FAYETTE STREET, SUITE 300

e. City: SYRACUSE f. State: NY g. Zip: 13202 h. Phone: (315) 409 - 6579

i. Designer certificate number: 90-11379 j. Expiration Date: 07 / 31 / 2019

k. Design Firm Asbestos Contractor License Number 29366 l. Expiration Date: 11 / 30 / 2019

13 a. Project designer signature: Christopher D. Engler b. Date: 4 / 17 / 2019

WE ARE YOUR DOL

NEW YORK STATE OF OPPORTUNITY. Department of Labor

Andrew M. Cuomo, Governor
Roberta L. Reardon, Commissioner

May 7, 2019

ARCADIS of NY Inc.
110 West Fayette Street STE 300
Syracuse, NY 13202

RE: File No. 19-0565

Dear Sir/Madam:

STATE OF NEW YORK
DEPARTMENT OF LABOR
DIVISION OF SAFETY AND HEALTH

The attached is a copy of Decision, dated, 5/7/2019, which I have compared with the original filed in this office and which I DO HEREBY CERTIFY to be a correct transcript of the text of the said original.

If you are aggrieved by this decision you may appeal within 60 days from its issuance to the Industrial Board of Appeals as provided by Section 101 of the Labor Law. Your appeal should be addressed to the Industrial Board of Appeals, State Office Building Campus, Building 12, Room 116, Albany, New York, 12240 as prescribed by its Rules and Procedure, a copy of which may be obtained upon request.

WITNESS my hand and the seal of the
NYS Department of Labor, at the City of
Albany, on this day of 5/7/2019.

Edward A. Smith, P.E.
Professional Engineer 2 (Industrial)

STATE OF NEW YORK
DEPARTMENT OF LABOR
STATE OFFICE BUILDING CAMPUS
ALBANY, NEW YORK 12240-0100

Variance Petition

of

Arcadis of NY, Inc.
Petitioner's Agent on Behalf of

General Electric Company
Petitioner

in re

Premises: GE Fort Edward Plant Bldg. 31
381 Broadway
Fort Edward, New York 12828

Controlled Demolition Removal with Non-friable ACM Remaining in Place

File No. 19-0565

DECISION

Cases 1-6

ICR 56

The Petitioner, pursuant to Section 30 of the Labor Law, having filed Petition No. 19-0565 on April 26, 2019 with the Commissioner of Labor for a variance from the provisions of Industrial Code Rule 56 as hereinafter cited on the grounds that there are practical difficulties or unnecessary hardship in carrying out the provisions of said Rule; and the Commissioner of Labor having reviewed the submission of the petitioner dated April 17, 2019; and

Upon considering the merits of the alleged practical difficulties or unnecessary hardship and upon the record herein, the Commissioner of Labor does hereby take the following actions:

Case No. 1 ICR 56-11.5 (b) (1)

VARIANCE GRANTED. The Petitioner's proposal for controlled demolition removal of non-friable roofing materials at the subject premises in accordance with the attached 2-page stamped copy of the Petitioner's submittal, is accepted; subject to the Conditions noted below:

THE CONDITIONS

Removal of all Friable ACM, Transite/Cement Board & Category II Non-friable ACM Prior to Controlled Demolition

1. All friable ACM, non-friable transite/cement board, and Category II non-friable ACM shall be removed in accordance with ICR 56 and this variance decision, including obtaining satisfactory clearance air results for all regulated abatement work areas (as necessary), prior to the commencement of this controlled demolition asbestos project. Category I non-friable ACM that will likely become crumbled, pulverized, or reduced to powder during the demolition shall also be removed.

Controlled Demolition Removals

2. The provisions of 56-11.5 (a, c) shall be followed for this controlled demolition project, except as modified by this variance.

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In addition to the conditions required by the above specific variances, the Petitioner shall also comply with the following general conditions:

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5. This DECISION shall terminate on May 31, 2020.

Date: May 7, 2019

ROBERTA L. REARDON
COMMISSIONER OF LABOR

By

Edward A. Smith, P.E.
Professional Engineer 2 (Industrial)

PREPARED BY: Edward A. Smith, P.E.
Professional Engineer 2 (Industrial)

REVIEWED BY: Ravi Pilar, P.E.
Professional Engineer 1 (Industrial)

Arcadis of New York, Inc.

One Lincoln Center

110 West Fayette Street

Suite 300

Syracuse, New York 13202

Tel 315 446 9120

Fax 315 449 0017

www.arcadis.com