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Preliminary Remedial Design Report

Site Remediation
Gloversville (Hill Street) Former Manufactured Gas Plant Site
City of Gloversville, Fulton County, New York
NYSDEC Site No. 5-18-021

May 2026

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I, Michael J. Benoit, certify that I am currently a New York State-registered professional engineer, that this Remedial Design Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with DER-10: *Technical Guidance for Site Investigation and Remediation*, and that all activities were performed in full accordance with the DER-approved work plan and any DER-approved modifications.

Michael J. Benoit, PE
Principal Environmental Engineer

Date

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Acronyms and Abbreviations

Arcadis	Arcadis of New York, Inc.
BBL	Blasland, Bouck & Lee, Inc.
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
COC	constituent of concern
cy	cubic yards
DER-10	Technical Guidance for Site Investigation and Remediation
Ebasco	Ebasco Services, Inc.
EC	engineering control
FER	Final Engineering Report
GRS	gas regulator station
IC	institutional control
IRM	interim remedial measure
MGP	manufactured gas plant
NAPL	non-aqueous phase liquid
National Grid	Niagara Mohawk Power Corporation, d/b/a National Grid
NAVD88	North American Vertical Datum of 1988
No.	Number
6 NYCRR 375	Title 6, Part 375 of the New York Codes, Rules and Regulations
NYSDEC	New York State Department of Environmental Conservation
O&M	operation and maintenance
PAH	polycyclic aromatic hydrocarbon
Parsons	Parsons Engineering Science, Inc.
RAO	remedial action objective
RD	Preliminary Remedial Design Report
RFP	Request for Proposal
ROD	Record of Decision
SCO	soil cleanup objective
SMP	Site Management Plan
Stearns & Wheler	Stearns & Wheler, LLC

1 Introduction

1.1 General

This *Preliminary Remedial Design Report* (RD) has been prepared by Arcadis of New York, Inc. (Arcadis), on behalf of Niagara Mohawk Power Corporation, d/b/a National Grid (hereinafter referred to as "National Grid"), to present the design basis and technical details for the remediation of the Gloversville (Hill Street) former manufactured gas plant (MGP) site located in Gloversville, New York (hereinafter referred to as the "Site") (Figure 1). The Site is currently in the New York State Inactive Hazardous Waste Disposal Site Remedial Program (designated as Site Number [No.] 5-18-021) and is being remediated by National Grid pursuant to the: (1) multi-site Order on Consent between National Grid and the New York State Department of Environmental Conservation (NYSDEC) (Index No. A4-0473-0000), effective November 7, 2003; and (2) *Record of Decision* (ROD) (NYSDEC 2019).

This RD has been prepared in general conformance with Section 5.2 of NYSDEC's Program Policy DER-10: *Technical Guidance for Site Investigation and Remediation* (DER-10) (NYSDEC 2010b).

1.2 Report Organization

The remainder of this RD is organized into seven sections as follows:

- Section 2 (Site Background), which presents general information regarding the pre-remediation conditions at the Site and in the surrounding off-Site area, including the investigations, evaluations, and interim remedial measures (IRMs) conducted by National Grid;
- Section 3 (Organizational Structure and Responsibilities), which provides a general overview of the roles and responsibilities of National Grid, the Engineer, and the Remediation Contractor during implementation of the selected remedy;
- Section 4 (Pre-Remediation Activities), which describes the activities to be completed prior to implementation of the selected remedy;
- Section 5 (Remediation Activities), which summarizes the remedial tasks to be conducted as part of the selected remedy;
- Section 6 (Post-Remediation Activities), which describes the reporting, monitoring, and administrative activities to be completed following the remedial construction activities;
- Section 7 (Preliminary Schedule), which presents the preliminary schedule for completion of the remedial design and initiation of the selected remedy for the Site; and
- Section 8 (References), which presents a list of reference documents used in the preparation of this RD.

This RD is supported by the Design Drawings and a list of Specifications, which are provided in Appendices A and B, respectively.

2 Site Background

2.1 General

This section provides general information regarding the pre-remediation conditions at the Site and in select surrounding off-Site areas, including a summary of the Site's location and description, history and operations, physical setting, previous investigations and evaluations, IRMs, remedial action objectives (RAOs), the nature and extent of MGP-related impacts, and the selected remedy.

2.2 Site Location and Description

The Site is located at 20 Hill Street in a mixed residential, commercial, and industrial area south of downtown Gloversville, Fulton County, New York (Figure 1). The Site is currently owned by National Grid and comprises three properties, which are identified as Section 149.13, Block 3, Lot 5 (Tax Parcel 149.13-3-5); Section 149.14, Block 7, Lot 1.5 (Tax Parcel 149.14-7-1.5; hereinafter referred to as the "Service Center Area"); and Section 149.18, Block 1, Lot 3 (Tax Parcel 149.18-1-3; hereinafter referred to as the "Southern Area") on the City of Gloversville Tax Map. As shown on Figure 2, the Site occupies an area of approximately 17 acres and is bounded by Hill Street to the north, a wooded area to the south, South Boulevard to the east, and a recreational walking/biking trail and Cayadutta Creek to the west. A former Agway petroleum storage facility is also located west of the Site between the recreational trail and Cayadutta Creek.

The approximately 8-acre Service Center Area (Tax Parcel 149.14-7-1.5) serves as a base of operations for National Grid's natural gas and electrical transmission maintenance personnel and equipment and contains an office/garage building (the service center building), multiple storage buildings and sheds, an open garage, a groundwater treatment system building, and various storage areas for utility maintenance equipment (e.g., poles, transformers, cable, piping, etc.; Figure 2). The majority of the Service Center Area is enclosed by fencing and is generally secure from public access. The approximately 5-acre Southern Area (Tax Parcel 149.18-1-3) is a heavily-wooded, vacant property located south of the Service Center Area. The area located outside the limits of the Site properties described above and shown on Figure 2 is hereinafter referred to as the "off-Site Area."

During an unknown period in (or prior to) the late 1800s/early 1900s, the southern portion of the Service Center Area (the area currently occupied by the open garage and equipment storage areas) was backfilled to the approximate existing lines and grades. The wooded Southern Area was not backfilled (or was backfilled to a lesser extent) and remains lower in elevation relative to the fenced portion of the Service Center Area.

2.3 Site History and Operations

The former MGP was constructed by the United Gas Improvement Company in 1898 to serve both the Johnstown and Gloversville communities. United Gas Improvement Company sold the company to the Fulton County Gas and Electric Company in 1900. In 1907, the facility produced gas via the water gas process. In 1927, the Fulton County Gas and Electric Company (controlled by the Mohawk Power Company) was consolidated with other utility companies to form New York Power and Light Corporation. Site gas production continued on a full-time basis until 1929/1930 when a gas main from a Troy, New York facility was constructed.

Based on a review of Sanborn maps, during the early 1900s, a lumber mill and leather mill operated in the Southern Area. The alignment of Cayadutta Creek was altered during the past century. Based on the 1912 and 1927 Sanborn maps, Cayadutta Creek consisted of meanders and oxbows south of the Service Center Area near what is now South Boulevard, and it appears that the creek was dammed in this area (potentially to harness hydro-mechanical/hydro-electric power for mill operations).

After 1930, gas was produced at the Site on a seasonal basis only (i.e., during the winter months). In 1950, regional utility companies were consolidated to form Niagara Mohawk Power Corporation (now National Grid), and gas production at the Site ceased during the winter of 1951/1952. Gas holders remained at the Site and were used for emergency supplies until the late 1950s, when the facility was shut down and a majority of the MGP structures were demolished. At that time, the Site was converted to a service center, the above-grade gas production facilities were demolished, and demolition debris was removed from the Site. The service center building initially consisted of a two-story office that included a loading dock and storage area. National Grid expanded the service center building in the late 1960s/early 1970s to include the garage area to service fleet vehicles.

Niagara Mohawk operated a fire training school for gas and operations personnel at the Site between 1967 and 1977. Training reportedly occurred in the southwest corner of the Service Center Area near the former drainage ditch (now stormwater detention basin) (Parsons Engineering Science, Inc. [Parsons] 1997). Training operations included the ignition of used transformer oil that was poured over props and subsequent extinguishment of the fire by training personnel (Ebasco Services, Inc. [Ebasco] 1983).

The Service Center Area continues to be used as a base of operations for National Grid's natural gas and electrical transmission maintenance personnel and equipment.

2.4 Physical Setting

An overview of the Site's physical setting is presented below, including a description of the land use, Site topography and drainage, geology, and hydrogeology.

2.4.1 Land Use

The Site consists of the following: an office/garage building (the service center building), multiple storage buildings and sheds, an open garage, a groundwater treatment system building, and various storage areas for utility maintenance equipment (e.g., poles, transformers, cable, piping, etc.). The Site is zoned for commercial use and currently serves as a National Grid service center. The properties adjoining the Site and in the neighborhood surrounding the Site primarily include properties zoned for commercial, manufacturing, and residential use.

2.4.2 Site Topography and Drainage

Surface topography within the Service Center Area generally slopes downward from the northeast to the southwest in the direction of Cayadutta Creek. Ground surface elevations range from approximately 788 feet above the North American Vertical Datum of 1988 (NAVD88) near the intersection of Hill Street and South Boulevard to approximately 741 feet NAVD88 in the southwest corner of the Service Center Area, near the 90-degree bends in Cayadutta Creek. The ground surface elevation in the Southern Area is approximately 10 feet lower than the Service Center Area, largely due to the Service Center Area filling and development described in Section 2.2 above. Surface topography in the Southern Area is irregular and ranges from approximately 740 feet to 756 feet NAVD88.

The fenced Service Center Area (north of the open garage) is generally covered with impervious surfaces (buildings, pavement, and gravel-covered parking areas). Surface water runoff in the vicinity of the service center building is collected by the on-Site storm sewer system catch basins, conveyed to a stormwater drainage ditch that extends along the western edge of the Service Center Area, and then conveyed to a stormwater detention basin in the southwest corner. The stormwater drainage ditch and detention basin also receive surface water runoff via overland flow and roof drainage from the open garage in the southern portion of the Service Center Area. Stormwater subsequently overflows from the stormwater detention basin to Cayadutta Creek via a culverted pipe. Cayadutta Creek is a tributary to the Mohawk River, which is located approximately 6 miles south of the Site.

Stormwater in the Southern Area tends to pond due to the irregular surface of this area. The ponded water gradually infiltrates the ground until it reaches the water table. A small perennial stream traverses the Southern Area from east to west until it joins Cayadutta Creek along the western boundary. This small stream receives stormwater runoff in its immediate vicinity and from South Boulevard located immediately east of the Site.

2.4.3 Geology

The overburden strata beneath the Site and adjacent off-Site areas are extremely heterogeneous as a result of the anthropogenic and geologic processes that deposited the soils. These strata, in descending order, consist of the following: fill; peat (where present); an upper sand, gravel, and cobble unit; silt; a lower sand-and-gravel unit; and bedrock or till (in some areas).

As the Service Center Area was developed, up to 15 feet of fill was placed in the northern portion of the Site. The Southern Area contains only a few feet of fill, if any. Fill materials in the Service Center Area generally consist of tar, ash, cinder, coal, clinkers, slag, and construction and demolition debris. An area of purifier waste placed as fill material is present along the eastern fence line of the Service Center Area.

A discontinuous peat deposit is located beneath the fill or at ground surface where fill is not present (e.g., in the Southern Area). Underlying the peat (where present) is a heterogeneous deposit of alluvial fine-grained silt and rounded sands, gravels, cobbles, and boulders. These deposits, hereafter referred to as the upper sand and gravel, are observed to be as little as a few feet to as many as 15 feet thick. Both the upper sand and gravel unit and the overlying fill materials are highly permeable.

A package of inter-layered silts and clays lies immediately beneath the upper sand and gravel. This layer, hereafter referred to as the silt unit, is continuous across the Service Center Area; however, it appears to have been eroded away in a portion of the Southern Area. The region where the silt is absent is referred to as the “silt window.” The silt unit is approximately 5 to 20 feet thick in most areas of the Site but is generally thinner in the Southern Area.

A relatively thick (30 to 70 feet) deposit of permeable glacial outwash, hereafter referred to as the lower sand and gravel, is present below the silt unit. The silt unit “protects” the lower sand and gravel unit from existing impacts observed in the upper sand and gravel and fill, and with the exception of a few isolated areas, existing impacts have not been observed in this unit. Shale bedrock (Canajoharie Formation) lies directly under the lower sand and gravel unit in most of the Site; however, a localized deposit of till is present below the outwash in the northern end of the Site (near Hill Street). Bedrock is encountered at depths ranging from approximately 50 to 110 feet below ground surface (bgs). In general, bedrock is present at deeper depths in the northern end of the Site and at shallower depths in the southern end of the Site.

2.4.4 Hydrogeology

Shallow groundwater in the Service Center Area flows toward the southwest, in the direction of the two right angle bends in Cayadutta Creek. The water table across the Service Center Area is typically found within the upper sand and gravel and fill materials at or near the ground surface to approximately 10 feet bgs. In the Southern Area, the water table is located approximately 1 to 5 feet bgs.

The water table beneath the Site fluctuates by several feet and, at times, expresses itself in the form of seeps at the ground surface along hill slopes, particularly following storm events. To control these seeps, several drain systems were installed in the Service Center Area as the Site was developed. The drains are located near/beneath the open garage and under the service center building.

Groundwater flow beneath the Site can be divided into two principal systems that are separated by the silt: flow in the upper sand and gravel/fill and flow in the lower sand and gravel. The vertical permeability of the silt unit is low relative to the upper and lower units, and as such, groundwater flow within this unit is negligible. Groundwater flow within the upper sand and gravel and fill is dominated by highly permeable flow areas (i.e., preferential pathways) that are represented by the hydraulic conductivity values in the higher end of the range. These preferential pathways consist of coarse-grained deposits and drains that are present in several locations of the Service Center Area; however, the exact location of the drains in the area of the open garage is not well known.

Groundwater flow patterns in the lower sand and gravel unit are controlled by the presence/absence of the silt unit. The silt separates the upper and lower sand-and-gravel units beneath most of the Site, with the exception of the silt window in a portion of the Southern Area. Where the silt is present, the hydraulic head in the lower sand and gravel is generally 1 to 7 feet higher than the head measured in the upper sand and gravel. Groundwater flow in the lower sand and gravel is generally to the southwest or south converging towards the silt window. Groundwater that reaches the area of the silt window either moves slowly upward into the upper sand and gravel, and ultimately into Cayadutta Creek, or continues on to the south.

2.5 Previous Investigations and Evaluations

Several investigations and evaluations have been conducted at the Site and in the surrounding off-Site areas to characterize pre-remediation conditions. The results of these investigations and evaluations were presented in the following documents:

- *Initial Site Survey of the Former Gloversville Gas Plant Site* (Ebasco 1983);
- *Supplemental Site Survey of the Former Gloversville Gas Plant Site* (Ebasco 1985a);
- *Former Gloversville Gas Plant Site Study – Supplemental Cayadutta Creek Investigations* (Ebasco 1985b);
- *Preliminary Site Assessment/Interim Remedial Measure Study* (Atlantic Environmental Services, Inc. 1993);
- *Remedial Investigation – NMPC Gloversville (Hill Street Site)* (Parsons 1997);
- *Soil and Sediment Quality Summary* (Stearns & Wheler, LLC [Stearns & Wheler] 2000);
- *Cayadutta Creek Investigation Summary Report* (Blasland, Bouck & Lee, Inc. [BBL] 2002);
- *Technical Memorandum* (Stearns & Wheler 2002);
- *Monitoring Well MW-8 Investigation* (Arcadis 2007);
- *RI/FS Phase II Data Needs Work Plan* (Arcadis 2008);

- *Remedial Investigation Report* (Arcadis 2009);
- *Feasibility Study Data Needs Investigation Summary Report* (Arcadis 2015); and
- *Pre-Design Investigation Report* (Arcadis 2022a).

2.6 Interim Remedial Measures

Several IRMs were completed at the Site prior to issuance of the ROD (NYSDEC 2019). This section provides a brief overview of the purpose and outcome of each IRM.

2.6.1 Purifier Waste Removal Interim Remedial Measure (1995)

Concurrent with the initial remedial investigation activities (Parsons 1997), approximately 370 tons of soil were removed from the eastern portion of the Site (east of the former holders) to assess the potential for recycling/reusing purifier waste-containing soil as an additive for asphalt pavement. The IRM closure report was approved by the NYSDEC on May 3, 1995.

2.6.2 Storm Sewer Interim Remedial Measure (1995)

Maxymillian Technologies, Inc. constructed a high-density polyethylene-lined settling basin outside the southwest corner of the Service Center Area to replace a portion of a drainage swale that received a combination of storm water and non-aqueous phase liquid (NAPL)-impacted groundwater collected and conveyed by the on-Site storm sewer system. A detailed account of the 1995 Storm Sewer IRM construction activities is presented in the *Engineering Certification Report* (BBL 1996).

2.6.3 Monitoring Well MW-8 Interim Redial Measure (2000)

In August 2000, Stearns & Wheler installed an automated NAPL recovery pump at monitoring well MW-8 to recover NAPL that had been observed within the monitoring well. Over the course of the MW-8 IRM's operation, National Grid estimates that more than 8,000 gallons of the NAPL and water mixture were recovered from the well. It has been estimated (by MW-8 IRM operation and maintenance [O&M] contractors) that the NAPL/water mixture consists of more than 90% water. In addition, the recovered NAPL was in an apparent emulsified state (potentially caused by the recovery pump).

2.6.4 Former Holder Number 3 Removal (2000-2001)

From September 2000 to May 2001, Foster Wheeler Corporation completed an IRM to remove the former 57,000-cubic-feet relief holder to reduce the potential for migration of MGP-related material from within the holder. Approximately 7,900 tons of MGP-impacted material (i.e., coal tar and coal tar-impacted soil) were removed from within, immediately surrounding, and below the former holder and transported off-Site for thermal treatment and disposal. Following excavation, the inside of the holder was backfilled with washed ¾- to 1-inch-diameter gravel below the water table and with run-of-bank gravel above the water table. The circular sheet pile was cut-off below grade to allow for final Site restoration (i.e., paving), and the retaining wall was left in place to protect existing gas lines behind the wall. Weep holes were drilled into the retaining wall to reduce the potential for groundwater mounding behind the wall. The weep holes drain groundwater into a gravel layer beneath the asphalt. A detailed

account of the holder removal activities is presented in the *Former Holder No. 3 Interim Remedial Measure Summary Report* (Foster Wheeler Corporation 2001).

2.6.5 Gas Regulator Station Upgrade (2003)

From August through December 2003, Niagara Mohawk installed new gas regulator station (GRS) equipment in the Service Center Area. A total of three excavations (one in the northeast corner of the Service Center Area, one along the eastern property boundary, and one along the western property boundary) were completed to facilitate the GRS modifications. A detailed account of the GRS upgrade activities is presented in the *Gas Regular Station Modification Environmental Support Documentation Report* (BBL 2004).

2.6.6 Storm Sewer Interim Remedial Measure (2006-2007)

From October 2006 through September 2007, a new storm sewer system was constructed to separately collect and convey surface water runoff from the Service Center Area and impacted groundwater from the service center building underdrains. Storm water is conveyed to a new storm water drainage ditch, storm water detention basins, and manholes (i.e., MH-1 and MH-6) prior to overflowing to Cayadutta Creek. Groundwater intercepted by the service center building underdrain system and French drain installed west of the open garage is conveyed to an on-Site groundwater treatment system (constructed as part of the IRM) and then discharged to the Gloversville-Johnstown Joint Wastewater Treatment Facility for further treatment. A detailed account of the storm sewer IRM construction activities is presented in the *Storm Sewer Interim Remedial Measure Engineering Certification Report* (Arcadis 2011).

2.7 Remedial Action Objectives

RAOs represent medium-specific goals that are protective of public health and the environment and are developed in consideration of the results of the site investigation activities, as well as current and reasonably anticipated future site use(s). The environmental media of concern for the Site are groundwater, soil, sediment, and soil vapor. The RAOs for the Site, as set forth in the ROD (NYSDEC 2019), are summarized in Table 2-1 below:

Table 2-1 Remedial Action Objectives

Media	Remedial Action Objective
Groundwater	RAOs for Public Health Protection: • Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards. • Prevent contact with, or inhalation of volatiles, from contaminated groundwater.
	RAOs for Environmental Protection: • Restore ground water aquifer to pre-disposal/pre-release conditions, to the extent practicable. • Prevent the discharge of contaminants to surface water. • Remove the source of ground or surface water contamination.
Soil	RAOs for Public Health Protection: • Prevent ingestion/direct contact with contaminated soil. • Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.

Media	Remedial Action Objective
Soil (continued)	RAOs for Environmental Protection: • Prevent migration of contaminants that would result in groundwater or surface water contamination. • Prevent impacts to biota from ingestion/direct contact with soil causing toxicity or impacts from bioaccumulation through the terrestrial food chain.
Sediment	RAOs for Public Health Protection: • Prevent direct contact with contaminated sediments. • Prevent surface water contamination which may result in fish advisories.
	RAOs for Environmental Protection: • Prevent release of contaminant(s) from sediments that would result in surface water levels in excess of ambient water quality criteria. • Prevent impacts to biota from ingestion/direct contact with sediments causing toxicity or impacts from bioaccumulation through the marine or aquatic food chain. • Restore sediments to pre-release/background conditions to the extent feasible.
Soil Vapor	RAO for Public Health Protection: • Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at the Site.

2.8 Nature and Extent of MGP-Related Impacts

As described in the ROD (NYSDEC 2019), soil, sediment, and groundwater at and near the Site have been impacted by waste by-products of the gas manufacturing process – most notably, coal tar. Coal tar is a reddish-brown to black dense NAPL and contains a complex mixture of organic chemicals, including volatile organic compounds and semi-volatile organic compounds. Chief among these compounds are benzene, toluene, ethylbenzene, and xylenes (collectively, “BTEX”) and a more general class of semi-volatile organic compounds known as polycyclic aromatic hydrocarbons (PAHs). Cyanide, which can be associated with purifier waste, has also been detected in soil and groundwater at the Site. Collectively, BTEX, PAHs, and cyanide are considered the primary Site-related constituents of concern (COCs).

Information regarding the pre-remediation nature and extent of MGP-related impacts at the Site and in the surrounding off-Site areas were presented in the reports listed in Section 2.5 of this RD.

2.9 Selected Remedy

The primary elements of the selected remedy for the Site, as set forth in the ROD (NYSDEC 2019), are summarized as follows:

1. Excavation and off-Site disposal of the following MGP-related contaminant source materials:
    - Approximately 17,100 in-situ cubic yards (cy) of source material containing NAPL identified above the silt layer approximately 14 feet bgs in the impacted area downgradient of the NAPL barrier wall and within the western bank of Cayadutta Creek:
        - Approximately 3,000 cy of shallow purifier waste located along the eastern Service Center Area fence line to approximately 5 feet bgs; and
        - Approximately 520 cy of soil to facilitate the construction of a permeable NAPL barrier wall.

- On-Site shallow soils (to 2 feet bgs) in the Service Center Area located outside the fence line containing COCs at concentrations exceeding residential soil cleanup objectives (SCOs).
- On-Site shallow soils (to 2 feet bgs) in the Southern Area containing COCs at concentrations exceeding protection of ecological resources SCOs located in the Southern Area.
- Off-Site soils containing COCs at concentrations greater than the unrestricted SCOs, as set forth in Section 6.8(a) of Title 6, Part 375 of the New York Codes, Rules, and Regulations (6 NYCRR 375).

2. Backfilling excavation areas with fill materials meeting Section 6.7(d) of 6 NYCRR 375 as follows:
   - Commercial use within the fence line of the Service Center Area;
   - Residential use outside the fence line of the Service Center Area;
   - Protection of ecological resources in the Southern Area; and
   - Unrestricted use in the off-Site area.
3. Construction of a Site cover consisting of (but not limited to) pavement, concrete, paved surface parking areas, sidewalks, building foundations, and building slabs or soil cover in areas where the upper 1 foot of exposed surface soil will exceed the applicable SCOs. Where the soil cover is required, it will consist of a minimum of 1 foot of soil meeting the applicable SCOs for cover material as set forth in Section 6.7(d) of 6 NYCRR 375. The soil cover will be placed over a demarcation layer, with the upper 6 inches of the soil of sufficient quality to maintain a vegetation layer.
4. Excavation and off-Site disposal of Cayadutta Creek bank soil and sediment:
   - that is grossly contaminated, as defined in Section 1.2(u) of 6 NYCRR 375-1.2;
   - that contains visual impacts of NAPLs, sheen, or which produce a visible sheen when agitated in-situ;
   - that are discolored and smell like coal tar;
   - that are adjacent to upland NAPL-containing areas; and
   - that are impacted by Site-related PAHs at concentrations greater than background levels.
5. Restoration of disturbed portions of the Cayadutta Creek bed and bank with materials consistent to, and meeting the protection of, existing ecological resource SCOs set forth in Section 6.8(b) of 6 NYCRR 375, in accordance with a habitat restoration plan. The goal of the habitat restoration is to restore, in kind and to the extent practical, the bed bathymetry and floodplain topography, including appropriate stream bed material, natural stream channel design techniques, and replacement plantings. If present, submerged aquatic vegetation in the remediation area will also be restored. The design will include a monitoring plan for areas disturbed by the remedy, and all activities will be consistent with the requirements of 6 NYCRR Part 608.
6. Construction of a NAPL barrier wall perpendicular to the groundwater flow in the northwest corner of the Southern Area to prevent future off-Site migration of NAPL to Cayadutta Creek and enable NAPL recovery to the extent practicable. The NAPL barrier wall will be keyed into the silt unit to intercept and collect mobile and NAPL, if present, in recovery wells.
7. Installation and operation of NAPL recovery wells in the NAPL barrier wall and in the Service Center Area, where NAPL was previously observed to collect in groundwater monitoring wells, to facilitate NAPL collection and recovery.
8. Continued operation of the existing groundwater and storm water collection and treatment systems.

9. Implementation of institutional controls (ICs) in the form of an environmental easement for the controlled property that:
    - requires the remedial party or site owner to complete and submit to the NYSDEC a periodic certification of ICs and engineering controls (ECs) in accordance with Section 1.8(h)(3) of 6 NYCRR 375;
    - allows the use and development of the controlled property for commercial and industrial uses as defined in Section 1.8(g) of 6 NYCRR 375, although land use is subject to local zoning laws;
    - restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the New York State Department of Health or County Department of Health; and
    - requires compliance with the NYSDEC-approved Site Management Plan (SMP).
10. Development of an SMP that includes the following:
    - An Institutional and Engineering Control Plan identifying all use restrictions and ECs for the Site and any off-Site impacts and detailing the steps and media-specific requirements necessary to ensure that the ICs (as described above) and ECs (i.e., soil cover, NAPL barrier wall, NAPL recovery system, and existing groundwater and storm water collection and treatment systems) remain in place and effective. The plan will include, but may not be limited to, the following:
        - An Excavation Plan detailing the provisions for management of future excavations in areas of remaining impacted material;
        - Descriptions of the provisions in the environmental easement, including land use and groundwater use restrictions;
        - A provision for further investigation and remediation if large-scale redevelopment occurs, if any of the existing structures are demolished, or if the subsurface is otherwise made accessible;
        - A provision for evaluation of the potential for soil vapor intrusion for any buildings developed on the Site, including a provision for implementing actions recommended to address exposures related to soil vapor intrusion;
        - Provisions for the management and assessment of implemented ECs;
        - Maintaining Site access controls and NYSDEC notifications; and
        - The steps necessary for the periodic review and certification of the ICs and/or ECs.
    - A Monitoring Plan to assess the performance and effectiveness of the remedy. The plan will include, but may not be limited to, the following:
        - Groundwater and surface water monitoring and NAPL monitoring and recovery to assess the remedy performance and effectiveness of the remedy;
        - Cayadutta Creek monitoring to assess the stream and habitat restoration effectiveness, including repair and replacement action as necessary;
        - Vapor intrusion monitoring for any occupied existing or future buildings on the Site, as may be required by the Institutional and Engineering Control Plan discussed above;
        - A monitoring schedule and frequency of submittals to the Department; and
        - ECs.

- An O&M Plan for the groundwater and surface water collection and treatment system to ensure the continued operation, maintenance, optimization, monitoring, inspection, and reporting of any mechanical or physical components of the remedy. The plan will include, but may not be limited to, the following:
  - Procedures for operating and maintaining the remedy;
  - Procedures for, and collection of, appropriate data to optimize the system on a periodic basis;
  - Compliance monitoring of treatment systems to ensure proper O&M as well as providing the data for any necessary permit or permit equivalent reporting;
  - Maintaining Site access controls and NYSDEC notifications; and
  - Providing the NYSDEC access to the Site and O&M records.

3 Organizational Structure and Responsibilities

[Note to NYSDEC: This section to be developed as part of the Draft Final Remedial Design Report.]

4 Pre-Remediation Activities

4.1 General

This section identifies the activities to be implemented prior to the initiation of the remediation activities at the Site. Such pre-remediation activities include, but are not limited to, the following:

- Citizen participation and public outreach;
- Permitting and access agreements;
- Remediation Contractor procurement;
- Remediation Contractor pre-mobilization submittals; and
- Pre-construction conference.

Additional information regarding each of these pre-remediation activities is provided below.

4.2 Citizen Participation and Public Outreach

Consistent with the NYSDEC's Program Policy DER-23: *Citizen Participation Handbook for Remedial Programs* (NYSDEC 2010a), the NYSDEC will prepare and distribute a Public Notice and Fact Sheet describing the remediation project prior to the start of the work. As appropriate, National Grid will assist the NYSDEC in preparing the Public Notice and Fact Sheet. The NYSDEC will distribute the Public Notice and Fact Sheet to parties on the Site contact list (i.e., residents and business owners within a specified radius of the project area, as well as additional community and political personnel) and the document repository.

Additionally, a copy of the RD (once approved by NYSDEC) will be placed in the document repository.

4.3 Permitting and Access Agreements

4.3.1 Permitting

The following permits and consultations are anticipated to be required for the remediation project:

- United States Army Corps of Engineers Nationwide Permit 38 and NYSDEC Water Quality Certification, which are required for the sediment removal activities in Cayadutta Creek;
- NYSDEC State Pollutant Discharge Elimination System Permit Equivalent, which is required for the discharge of treated water (resulting from the dewatering of remedial excavation areas, decontamination of equipment/personnel, etc.) to Cayadutta Creek; and
- City of Gloversville Floodplain Development Permit, which is required for the remedial excavation and backfilling work within the 100-year floodplain of Cayadutta Creek.

The Nationwide Permit 38 and the Water Quality Certification applications will be submitted to the United States Army Corps of Engineers and NYSDEC under the joint application for permit. In support of the joint application for permit, the following agencies will be consulted, as applicable:

- United States Fish and Wildlife Service, to confirm that the remediation activities will not affect protected species or their habitats; and
- New York State Office of Parks, Recreation, and Historic Preservation, to identify any cultural or historic resources that may be present in the area of the Site.

The Remediation Contractor will be responsible for obtaining any other pertinent and applicable federal, state, or local permits or agreements specific to their work (e.g., local construction permits, etc.) and completing any required notifications.

4.3.2 Access Agreements

The selected remedy includes remedial excavation activities on two City of Gloversville-owned properties – namely, Tax Parcels 149.17-8-4 and 149.17-8-1.11. National Grid will secure an access agreement with the City of Gloversville to conduct the remediation and related work on those properties.

4.4 Remediation Contractor Procurement

Following the NYSDEC's approval of the RD, National Grid will initiate the Remediation Contractor procurement process to solicit bids for the implementation of the remediation activities described herein. This process will initially involve the preparation and distribution of a Request for Proposal (RFP) to prospective contractors. The contents of the RFP are anticipated to include (but not be limited to) the NYSDEC-approved RD, National Grid's contractual terms and conditions for the contents of the proposal and performance of the work, and any supplemental information (e.g., boring logs, reports, etc.) that may assist prospective contractors in the development of their proposals.

Following distribution of the RFP, a pre-bid conference will be conducted with the prospective contractors, National Grid, and the Engineer. The pre-bid conference will provide prospective contractor's an opportunity to visually examine/verify existing Site conditions and thoroughly acquaint themselves with the work required and potential challenges associated with the project to facilitate preparation of an accurate proposal and work schedule.

Following the pre-bid conference, prospective contractors will finalize and submit their proposals to National Grid for review. Proposals will be reviewed and evaluated in consideration of the following:

- Compliance with the requirements of the RFP;
- Proposed work approach and methods for performing the remediation activities;
- Bid price;
- Proposed work schedule; and
- Contractor experience, qualifications, and safety record.

Following review and evaluation of the prospective contractor proposals, National Grid will select a Remediation Contractor for the project and initiate the contracting process.

4.5 Remediation Contractor Pre-Mobilization Submittals

The selected Remediation Contractor will be required to prepare several pre-mobilization submittals for review by National Grid and Arcadis. Such pre-mobilization submittals will include, but are not necessarily limited to, the following:

- A Project Operations Plan, which will describe the Remediation Contractor's proposed means, methods, and sequence of remedial construction operations in compliance with the Contract Documents;
- A Site-Specific Health and Safety Plan, which will address the safety and health hazards of each phase of operations at the Site, include requirements and procedures for employee protection, and comply with applicable National Grid safety programs and applicable laws and regulations, including Title 29 Part 1910 of the Code of Federal Regulations and Title 29 Part 1926 of the Code of Federal Regulations; and
- A preliminary progress schedule, which will identify the proposed sequence and duration of the major work activities for the project.

Select pre-mobilization submittals may be provided to NYSDEC and/or the New York State Department of Health for review and comment (as necessary). Such pre-mobilization submittals may include, but are not necessarily limited to, the Site-specific Health and Safety Plan and preliminary progress schedule. The Remediation Contractor will not mobilize to the Site until all required pre-mobilization submittals have been approved or accepted by National Grid and Arcadis.

4.6 Pre-Construction Conference

A pre-construction conference will be held prior to the initiation of the project to designate responsible personnel, establish working relationships, discuss the preliminary progress schedule submitted by the Remediation Contractor, and review administrative and procedural requirements for the remediation activities.

5 Remediation Activities

[Note to NYSDEC: This section to be developed as part of the Draft Final Remedial Design Report.]

6 Post-Remediation Activities

6.1 General

This section identifies the activities to be conducted following completion of the remediation activities at the Site. Such post-remediation activities include, but are not limited to, the following:

- Execution of an environmental easement for the Site properties;
- Preparation and submittal of an SMP; and
- Preparation and submittal of a Final Engineering Report (FER).

Additional information regarding each of these post-remediation activities is provided below.

6.2 Environmental Easement

[Note to NYSDEC: This section will be deleted or revised (as appropriate) if the environmental easement is executed before the Final Remedial Design Report is submitted to NYSDEC.]

As required by the ROD, an environmental easement will be executed for the Site properties following the completion of the remediation activities. The environmental easement will establish a series of ICs on the Site properties that will:

- Require the remedial party or Site owner to complete and submit to NYSDEC a periodic certification of ICs and ECs in accordance with Section 1.8(h)(3) of 6 NYCRR 375;
- Allow the use and development of the Site properties for commercial and industrial uses as defined in Section 1.8(g) of 6 NYCRR 375, subject to local zoning laws;
- Restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the New York State Department of Health or County Department of Health; and
- Require compliance with the NYSDEC-approved SMP (described below in Section 6.3 of this RD).

The environmental easement will be granted by National Grid (the current Site owner) to NYSDEC and recorded with the Fulton County Clerk.

6.3 Site Management Plan

An SMP will be prepared in accordance with the ROD (NYSDEC 2019) and Section 6.1 of DER-10 (NYSDEC 2010b) for the long-term management of remaining impacts in environmental media at the Site and the implementation, monitoring, O&M, and reporting of the ICs and ECs. As summarized in Section 2.9 of this RD, the SMP will include the following plans:

- An Institutional and Engineering Control Plan, which will identify all use restrictions and ECs for the Site and any off-Site impacts and detail the steps and media-specific requirements necessary to ensure that the ICs (as set forth in the environmental easement) and ECs (i.e., soil cover, NAPL barrier wall, NAPL recovery system, and existing groundwater and storm water collection and treatment systems) remain in place and effective;

- A Monitoring Plan, which will identify the monitoring activities for evaluating the performance and effectiveness of the remedy; and
- An O&M Plan for the groundwater and surface water collection and treatment system, which will identify the operation, maintenance, optimization, monitoring, inspection, and reporting requirements for any mechanical or physical components of the remedy.

A draft SMP will be submitted to the NYSDEC for review. Following receipt of NYSDEC comments, the SMP will be revised accordingly and a stamped/signed final version of the SMP will be submitted to the NYSDEC.

6.4 Final Engineering Report

Upon completion of the remediation activities, an FER will be prepared and submitted to the NYSDEC to document the remedial program implemented at the Site. The FER will be prepared in accordance with Section 5.8 of DER-10 (NYSDEC 2010b) and include, at a minimum, the following:

- A description of the remediation activities, including deviations, if any, from the NYSDEC-approved RD;
- Record ("as-built") drawings, tables, and figures detailing the remediation activities completed and indicating that acceptance criteria were met;
- Information and documentation regarding the final quantities and disposition of materials disposed of/treated off-Site during implementation of the remediation activities, including copies of executed shipping documents;
- Summaries of field observations, test performed, laboratory samples collected, and monitoring results obtained during construction (e.g., community air monitoring, etc.);
- Identification of the applicable ICs employed, including a copy of the executed environmental easement for the Site properties;
- Representative photographs taken during implementation of the remediation activities;
- Copies of regulatory permits and other key regulatory agency correspondence related to the permits and permit compliance; and
- A certification statement signed and sealed by a professional engineer licensed in New York State.

A draft FER will be submitted to the NYSDEC for review. Following receipt of NYSDEC comments, the FER will be revised accordingly and a stamped/signed final version of the FER will be submitted to the NYSDEC.

7 Preliminary Schedule

The preliminary schedule for the completion of the remedial design and initiation of the selected remedy for the Site is presented below in Table 7-1.

Table 7-1 Preliminary Remedial Design Schedule

Schedule Component	Date
Submit Preliminary Remedial Design Report	May 2026
Receive NYSDEC Approval of Preliminary Remedial Design Report	Q2 2026
Submit Draft Final Remedial Design Report	Q4 2026
Receive NYSDEC Comments on Draft Final Remedial Design Report	Q1 2027
Submit Final Remedial Design Report	Q2 2027
NYSDEC Approval of Final Remedial Design Report	Q2 2027
Remediation Contractor Procurement	Q2 2027 – Q4 2027
Initiate Remedial Construction	2028

The preliminary schedule is subject to change based on NYSDEC's review/approval schedule for the various remedial design submittals.

Initiation of the remedial construction activities is contingent on meeting the schedule components outlined in Table 7-1 above and receipt of all required permits, access agreements, and approvals. Further details regarding the schedule for the remedial construction activities and sequencing of the work will be provided to the NYSDEC once the permits for the project have been received and the Remediation Contractor has been selected. The sequencing of remedial construction activities will be developed in conjunction with the selected Remediation Contractor, and in consideration of weather/seasonal conditions and any permit requirements (e.g., construction window) or other regulatory conditions.

8 References

Arcadis. 2007. *Monitoring Well MW-8 Investigation*. Gloversville (Hill Street) Former MGP Site, Gloversville, New York. Prepared for National Grid. March 15.

Arcadis. 2008. *RI/FS Phase II Data Needs Work Plan*. Gloversville (Hill Street) Former MGP Site, Gloversville, New York. Prepared for National Grid. May 30.

Arcadis. 2009. *Remedial Investigation Report*. Gloversville (Hill Street) Former Manufactured Gas Plant Site, Gloversville, New York. June. Revised November 2013.

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Arcadis. 2022a. *Pre-Design Investigation Report*. Gloversville (Hill Street) Former MGP Site, Gloversville, New York. Prepared for National Grid. January. Revised February 2024.

Atlantic Environmental Services, Inc. 1993. *Preliminary Site Assessment/Interim Remedial Measure Study*. June.

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Ebasco. 1983. *Initial Site Survey of the Former Gloversville Gas Plant Site*. Prepared for Niagara Mohawk Power Corporation. September.

Ebasco. 1985a. *Supplemental Site Survey of the Former Gloversville Gas Plant Site*. Prepared for Niagara Mohawk Power Corporation. April. Revised July 1985.

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Foster Wheeler Corporation. 2001. *Former Holder No. 3 Interim Remedial Measure (IRM) Summary Report*. Gloversville (Hill Street) Site, Gloversville, New York. Prepared for Niagara Mohawk. October.

NYSDEC. 2010a. *Citizen Participation Handbook for Remedial Programs*. Program Policy DER-23. Division of Environmental Remediation. January 21. Revised January 12, 2021.

NYSDEC. 2010b. *Technical Guidance for Site Investigation and Remediation*. Program Policy DER-10. Division of Environmental Remediation. May 3.

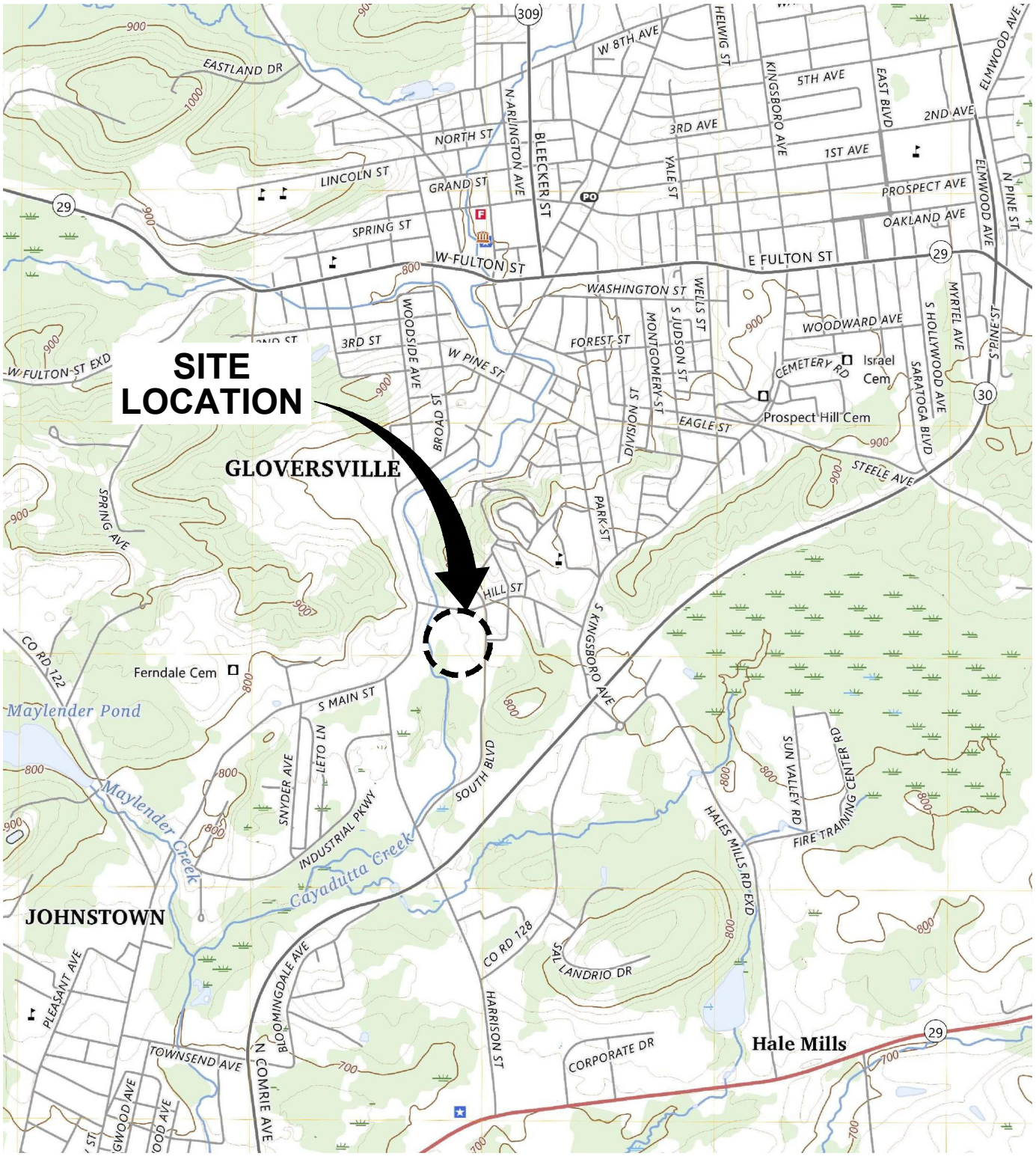
NYSDEC. 2019. *Record of Decision, NM – Hill St. Gloversville MGP State Superfund Project, Gloversville, Fulton County, Site No.518021.* March.

Parsons. 1997. *Remedial Investigation – NMPC Gloversville (Hill Street Site)*. Prepared for Niagara Mohawk Power Corporation. October.

Stearns & Wheler. 2000. *Soil and Sediment Quality Summary*, Gloversville Former Manufactured Gas Plant Site. December.

Stearns & Wheler. 2002. *Technical Memorandum*, Hill Street Former MGP Site, Prepared for Niagara Mohawk, A National Grid Company, Gloversville, New York. August.

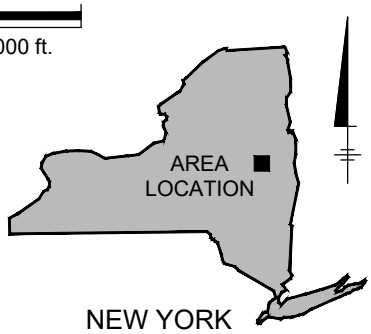
Figures



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. QUAD., GLOVERSVILLE, NEW YORK, 2023.

0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.



NATIONAL GRID
GLOVERSVILLE (HILL STREET)
FORMER MANUFACTURED GAS PLANT SITE
GLOVERSVILLE, NEW YORK
PRELIMINARY REMEDIAL DESIGN REPORT

SITE LOCATION MAP

ARCADIS

FIGURE
1

C:\Users\bdeclercq\DC\ACCDocs\Arcadis ACC US\AUS-99999999-NATL GRID_HILL ST_GLOVERSVILLE_NY\Project Files\10_WP\10T_ARC_ENV\2026\01-DWG\PRDR_Fig 1_Site Location Map.dwg LAYOUT: 1 SAVED: 3/30/2026 1:48 PM BY: DECLERCQ, BRIAN

IMAGES:
Arcadis Logo.PNG
NY_Gloversville_20230531_TM.jpg

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36652X03
36652X04
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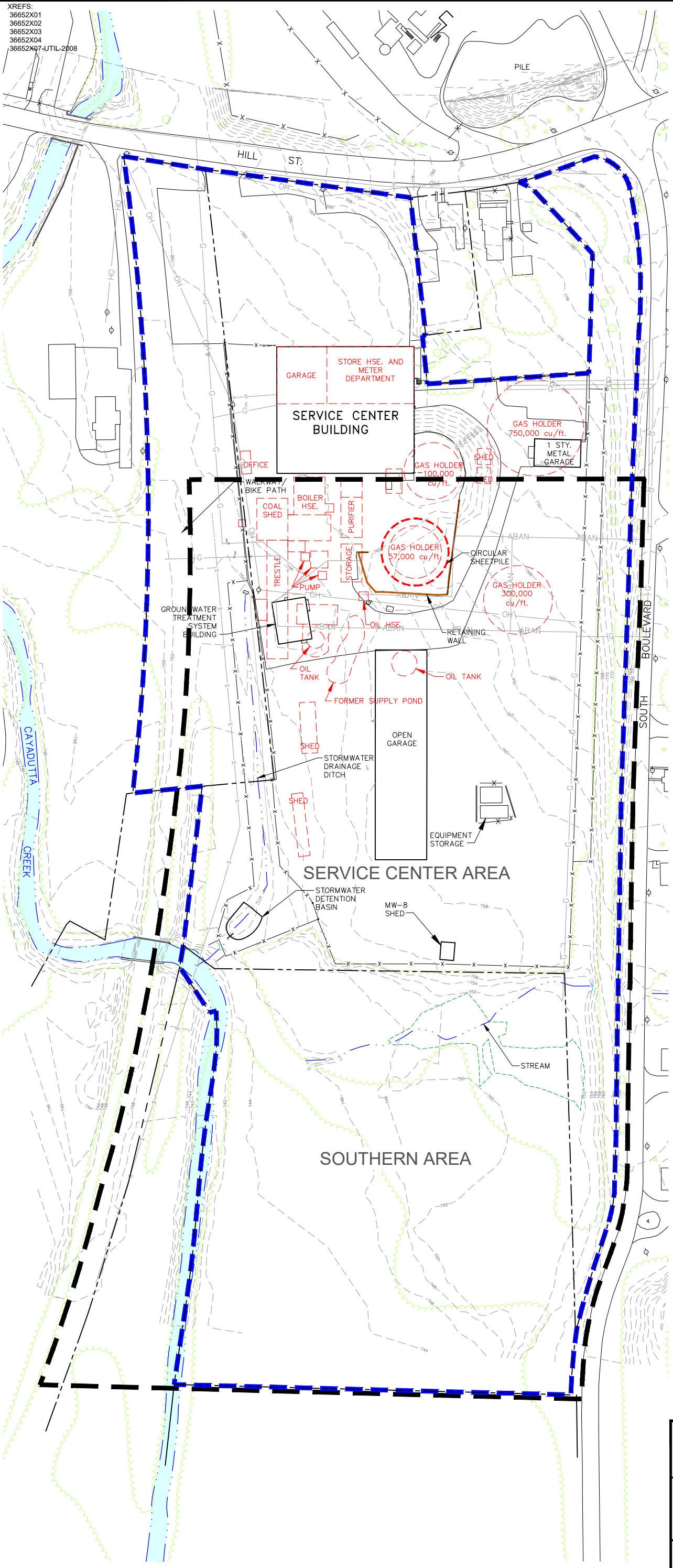


LEGEND:

- APPROXIMATE LIMIT OF SITE
- REMEDIATION PROJECT WORK LIMIT
- APPROXIMATE PROPERTY LINE
- HISTORICAL MGP STRUCTURE
- TOPOGRAPHIC ELEVATION CONTOUR
- WATER STREAM
- TREE LINE
- FENCE
- SANITARY LINE
- NATURAL GAS DISTRIBUTION LINE
- ELECTRICAL
- OVERHEAD
- ABANDONED
- UTILITY POLE
- IDENTIFIED WETLAND

NOTES:

1. ALL ELEVATIONS ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929.
2. THE NATIONAL GRID PROPERTY LINE SHOWN IS APPROXIMATE.
3. ALL LOCATIONS ARE APPROXIMATE.
4. BASEMAP PREPARED FROM ELECTRONIC SURVEY FILE PROVIDED BY NIAGARA MOHAWK ON 7/23/01. PRIMARY SURVEY CONTROL FOR PHOTOGRAMMETIC MAPPING WAS ESTABLISHED FROM AN ON THE GROUND SURVEY, PERFORMED ON JULY 28, 1994 USING THE GLOBAL POSITIONING SYSTEM (GPS) AND CONFORMS TO ORDER 2 CLASS 2 FGCS ACCURACY SPECIFICATIONS. THE HORIZONTAL REFERENCE DATUM NORTH AMERICAN DATUM OF 1983 (NAD 83) ON REFERENCE ELLIPSOID ASSOCIATED WITH THE GEODETIC REFERENCE SYSTEM OF 1980 (GRS 80). THE COORDINATES ARE BASED ON THE NEW YORK STATE PLANE GEODETIC SYSTEM OF 1983 (EASTERN ZONE 3101).
5. EXISTING SITE FEATURES BASED ON "ASBUILT SURVEY" PROVIDED BY STANTEC ON 7/18/08 AND UPDATED WITH THEW ASSOCIATES LS, PLLC. DRAWING TITLED "MAP SHOWING TOPOGRAPHIC CONDITIONS, NATIONAL GRID – GLOVERSVILLE SITE, DEC SITE NO. 518021," DATED OCTOBER 17, 2025, REVISED FEBRUARY 25, 2026. PREPARED FOR ARCADIS OF NEW YORK, INC.
6. FORMER LOCATIONS OF SITE FEATURES WERE DIGITIZED FROM PHOTOCOPIES OF FIGURES 2-4 & 2-5 FROM THE JUNE 1993 "GLOVERSVILLE MGP SITE IRM REPORT" BY ATLANTIC ENVIRONMENTAL SERVICES, INC., WHICH WERE BASED ON SANBORN INSURANCE MAPS, AND ARE APPROXIMATE ONLY.

0 60' 120'
GRAPHIC SCALE

NATIONAL GRID
GLOVERSVILLE (HILL STREET)
FORMER MANUFACTURED GAS PLANT SITE
GLOVERSVILLE, NEW YORK
PRELIMINARY REMEDIAL DESIGN REPORT

SITE PLAN

ARCADIS

FIGURE
2

Appendix A

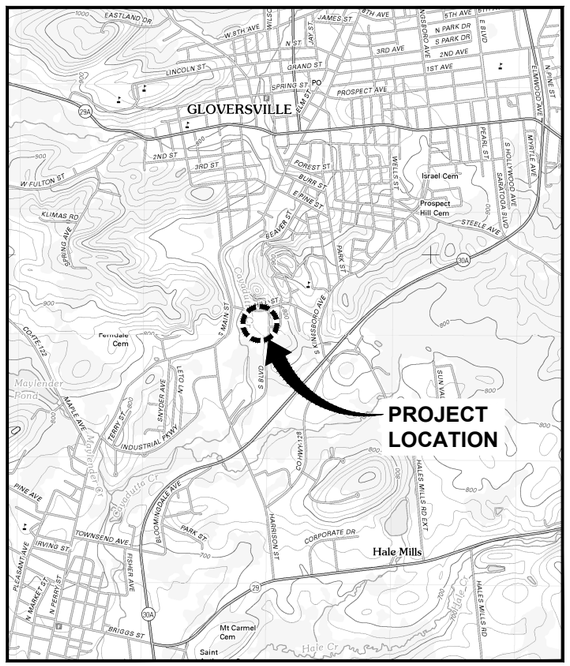
Design Drawings

DESIGN DRAWINGS

SITE REMEDIATION

GLOVERSVILLE (HILL STREET)
FORMER MGP SITE

20 HILL STREET
GLOVERSVILLE, NEW YORK 12078



DATE ISSUED
MAY 2026

DRAFT
NOT FOR CONSTRUCTION

nationalgrid
SYRACUSE, NEW YORK

ARCADIS
ARCADIS OF NEW YORK, INC.

LIST OF DRAWINGS

GENERAL NOTES:

SAFETY:

1. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. SUCH RESPONSIBILITY DOES NOT RELIEVE SUBCONTRACTORS OF THEIR RESPONSIBILITY FOR THE SAFETY OF PERSONS OR PROPERTY IN THE PERFORMANCE OF THEIR WORK, NOR FOR COMPLIANCE WITH APPLICABLE SAFETY LAWS AND REGULATIONS. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE SAFETY OF, AND SHALL PROVIDE THE NECESSARY PROTECTION TO PREVENT DAMAGE, INJURY, OR LOSS TO: ALL PERSONS ON THE SITE, REGARDLESS OF EMPLOYER, OR WHO MAY BE AFFECTED BY THE WORK; ALL THE WORK AND MATERIALS AND EQUIPMENT TO BE INCORPORATED THEREIN, WHETHER IN STORAGE ON OR OFF THE SITE; AND OTHER PROPERTY AT THE SITE OR ADJACENT THERETO, INCLUDING TREES, SHRUBS, LAWNS, WALKS, PAVEMENTS, ROADWAYS, STRUCTURES, OTHER WORK IN PROGRESS, UTILITIES, AND UNDERGROUND FACILITIES NOT DESIGNATED FOR REMOVAL, RELOCATION, OR REPLACEMENT IN THE COURSE OF CONSTRUCTION.
2. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LAWS AND REGULATIONS RELATING TO THE SAFETY OF PERSONS OR PROPERTY, OR TO THE PROTECTION OF PERSONS OR PROPERTY FROM DAMAGE, INJURY, OR LOSS; AND SHALL ERECT AND MAINTAIN ALL NECESSARY SAFEGUARDS FOR SUCH SAFETY AND PROTECTION. CONTRACTOR SHALL NOTIFY OWNER, CONSTRUCTION MANAGER, AND ENGINEER; THE OWNERS OF ADJACENT PROPERTY, UNDERGROUND FACILITIES, AND OTHER UTILITIES; AND OTHER CONTRACTORS AND UTILITY OWNERS PERFORMING WORK AT OR ADJACENT TO THE SITE, WHEN PROSECUTION OF THE WORK MAY AFFECT THEM, AND SHALL COOPERATE WITH THEM IN THE PROTECTION, REMOVAL, RELOCATION, AND REPLACEMENT OF THEIR PROPERTY OR WORK IN PROGRESS.
3. THE SITE IS CLASSIFIED AS A HAZARDOUS WASTE SITE. PRESENCE OF CONTAMINANTS, WHERE KNOWN TO OWNER AND ENGINEER, ARE INDICATED IN THE REPORTS AND DRAWINGS (IF ANY) OF SUCH CONTAMINANTS LISTED IN THE SUPPLEMENTARY CONDITIONS.
4. EACH EMPLOYER WORKING AT THE SITE SHALL DEVELOP AND IMPLEMENT A WRITTEN HEALTH AND SAFETY PLAN FOR ITS EMPLOYEES AND OTHER INDIVIDUALS FOR WHOM SUCH EMPLOYER IS RESPONSIBLE. HEALTH AND SAFETY PLAN SHALL INCLUDE PROCEDURES THAT WILL BE USED TO ENSURE THE SAFE HANDLING OF CONTAMINANTS DURING EXCAVATING, LOADING, AND TRANSPORTING ACTIVITIES. HEALTH AND SAFETY PLAN SHALL COMPLY WITH 29 CFR 1904, 29 CFR 1910, 29 CFR 1926, OTHER LAWS AND REGULATIONS, AND SPECIFICATIONS SECTION 01 35 29 (CONTRACTOR'S HEALTH AND SAFETY PLAN).

EXISTING CONDITIONS, STRUCTURES, AND UNDERGROUND FACILITIES:

1. SITE CONDITIONS AT THE TIME OF CONSTRUCTION MAY BE DIFFERENT THAN THOSE SHOWN OR INDICATED ON THE DRAWINGS. CONTRACTOR SHALL VERIFY THE ACCURACY AND COMPLETENESS OF THE INFORMATION SHOWN OR INDICATED ON THE DRAWINGS BEFORE STARTING WORK. PROMPTLY NOTIFY CONSTRUCTION MANAGER AND ENGINEER IN WRITING OF ANY DISCREPANCIES WITH THE POTENTIAL TO AFFECT THE WORK.
2. THE SUPPLEMENTARY CONDITIONS INDICATE INFORMATION AVAILABLE RELATIVE TO SUBSURFACE CONDITIONS AT THE SITE. SUCH INFORMATION AND DATA ARE NOT INTENDED AS A REPRESENTATION OR WARRANTY OF CONTINUITY OF CONDITIONS BETWEEN SOIL BORINGS OR TEST PITS, NOR OF GROUNDWATER LEVELS AT DATES AND TIMES OTHER THAN DATE AND TIME WHEN MEASURED, NOR THAT PURPOSE OF OBTAINING THE INFORMATION AND DATA WERE APPROPRIATE FOR USE BY CONTRACTOR. OWNER AND ENGINEER WILL NOT BE RESPONSIBLE FOR INTERPRETATIONS OR CONCLUSIONS DRAWN THEREFROM BY CONTRACTOR.
3. SOIL BORINGS AND OTHER EXPLORATORY OPERATIONS MAY BE MADE BY CONTRACTOR, AT NO ADDITIONAL COST TO OWNER. COORDINATE CONTRACTOR-PERFORMED TEST BORINGS AND OTHER EXPLORATORY OPERATIONS WITH OWNER, UTILITY OWNERS, AND OTHERS AS APPROPRIATE. PERFORM SUCH EXPLORATIONS WITHOUT DISRUPTING OR OTHERWISE ADVERSELY AFFECTING OPERATIONS OF OWNER, UTILITY OWNERS, OR OTHERS. COMPLY WITH LAWS AND REGULATIONS RELATIVE TO REQUIRED NOTIFICATIONS.
4. UNDERGROUND FACILITIES KNOWN TO OWNER AND ENGINEER, EXCEPT WATER, GAS, SEWER, ELECTRIC, AND COMMUNICATIONS SERVICES TO INDIVIDUAL BUILDINGS AND PROPERTIES, ARE SHOWN ON THE DRAWINGS. INFORMATION SHOWN FOR UNDERGROUND FACILITIES IS THE BEST AVAILABLE TO OWNER AND ENGINEER BUT, IN ACCORDANCE WITH THE GENERAL CONDITIONS, AS MAY BE MODIFIED BY THE SUPPLEMENTARY CONDITIONS, IS NOT GUARANTEED TO BE CORRECT OR COMPLETE.
5. CONTRACTOR SHALL EXPLORE AHEAD OF SELECTIVE DEMOLITION, TRENCHING, EXCAVATING, OR OTHER SUBSURFACE WORK, AND SHALL SUFFICIENTLY UNCOVER UNDERGROUND FACILITIES THAT WILL OR MAY INTERFERE WITH THE WORK TO DETERMINE THEIR LOCATION, TO PREVENT DAMAGE TO UNDERGROUND FACILITIES, AND TO PREVENT SERVICE INTERRUPTION TO STRUCTURES AND PROPERTIES SERVED BY UNDERGROUND FACILITIES.
6. COORDINATE WITH UTILITY OWNERS FOR SHUT OFF OF SERVICES IN ACTIVE PIPING AND CONDUITS, AND FOR TESTING, SHUT OFF OF SERVICES, AND DRAINING, PURGING, OR DE-ENERGIZING WHERE SPECIFIED OR REQUIRED OF PIPING AND CONDUITS OF UNKNOWN STATUS. WHEN REQUIRED BY UTILITY OWNER, OWNER WILL ASSIST CONTRACTOR WITH UTILITY OWNER NOTIFICATIONS. COMPLETELY REMOVE BURIED PIPING AND CONDUITS INDICATED FOR REMOVAL AND NOT OTHERWISE INDICATED AS BEING ABANDONED OR TO REMAIN IN PLACE.
7. CONTRACTOR SHALL SUSTAIN IN THEIR PLACES AND PROTECT FROM DIRECT OR INDIRECT INJURY ALL UNDERGROUND FACILITIES AND SURFACE STRUCTURES LOCATED WITHIN OR ADJACENT TO THE LIMITS OF THE WORK. SUCH SUSTAINING AND SUPPORTING SHALL BE DONE CAREFULLY AND AS REQUIRED BY THE PARTY OWNING OR CONTROLLING SUCH FACILITY OR STRUCTURE.
8. MOVEMENT OR OPERATION OF CONSTRUCTION EQUIPMENT OVER UNDERGROUND FACILITIES SHALL BE AT CONTRACTOR'S SOLE RISK AND ONLY AFTER CONTRACTOR HAS PREPARED AND SUBMITTED TO ENGINEER AND UTILITY OWNERS (AS APPLICABLE), AND RECEIVED ACCEPTANCE THEREFROM, A PLAN DESCRIBING CONTRACTOR'S ANALYSIS OF THE LOADS TO BE IMPARTED AND CONTRACTOR'S PROPOSED MEASURES TO PROTECT STRUCTURES AND UNDERGROUND FACILITIES DURING THE PROJECT.
9. IF CONTRACTOR DAMAGES AN UNDERGROUND FACILITY, OR THE MATERIAL SURROUNDING OR SUPPORTING THE SAME, CONTRACTOR SHALL IMMEDIATELY NOTIFY OWNER, CONSTRUCTION MANAGER, ENGINEER, AND THE OWNER OF THE DAMAGED FACILITY AND RESTORE IT TO ITS PRE-CONSTRUCTION CONDITION, IN ACCORDANCE WITH REQUIREMENTS OF THE OWNER OF THE DAMAGED FACILITY AND THE GENERAL CONDITIONS. SUCH REPAIR OR RESTORATION WORK SHALL BE PERFORMED AT NO ADDITIONAL COST TO OWNER.
10. DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED AND USED BY OWNER OR OTHERS, EXCEPT WHEN SUCH INTERRUPTION IS INDICATED IN THE CONTRACT DOCUMENTS OR WHEN ALLOWED IN WRITING BY ENGINEER AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES ARE PROVIDED BY CONTRACTOR FOR THE AFFECTED STRUCTURE OR PROPERTY.

SURVEY:

1. PROJECT HORIZONTAL REFERENCE DATUM IS NAD83, NEW YORK STATE PLANE EAST ZONE.
2. PROJECT VERTICAL REFERENCE DATUM IS NAVD88.

REFERENCE DRAWINGS:

1. ARCADIS OF NEW YORK, INC. DRAWING NO. 2, TITLED "STORMWATER AND GROUNDWATER COLLECTION AND CONVEYANCE SYSTEM – PLAN AND PROFILES," DATED JUNE 2008, REVISED JULY 26, 2011.
2. ARCADIS OF NEW YORK, INC. DRAWING NO. 3, TITLED "STORMWATER DRAINAGE DITCH PLAN AND PROFILE," DATED JUNE 2008, REVISED JULY 26, 2011.
3. ARCADIS OF NEW YORK, INC. DRAWING NO. 4, TITLED "DRAINAGE SWALE MODIFICATIONS," DATED JUNE 2008, REVISED JULY 26, 2011.
4. ARCADIS OF NEW YORK, INC. DRAWING NO. 5, TITLED "DRAINAGE SWALE AND STORMWATER DRAINAGE DITCH DETAILS," DATED JUNE 2008, REVISED JULY 26, 2011.
5. LAMONT ENGINEERS, PC. SHEET NO. C100, TITLED "SITE PLAN, PROFILE, AND NOTES," DATED JULY 18, 2024, ISSUED NOVEMBER 27, 2024. PREPARED FOR THE CITY OF GLOVERSVILLE.
6. LAMONT ENGINEERS, PC. SHEET NO. C110, TITLED "ABUTMENT DETAILS AND NOTES," DATED JULY 18, 2024, ISSUED NOVEMBER 27, 2024. PREPARED FOR THE CITY OF GLOVERSVILLE.
7. NIAGARA MOHAWK POWER CORPORATION. DRAWING NO. C-9809-E, TITLED "GLOVERSVILLE SERVICE CENTER, GRADING & BLACKTOP," DATED AUGUST 19, 1965, REVISED JULY 21, 1994.
8. NIAGARA MOHAWK POWER CORPORATION. DRAWING NO. C-12769-E, TITLED "GLOVERSVILLE SERVICE CENTER, GENERAL PLAN," DATED APRIL 29, 1965, REVISED APRIL 13, 1995.
9. NIAGARA MOHAWK POWER CORPORATION. DRAWING NO. G-17743-E, TITLED "GLOVERSVILLE SERVICE CENTER, NEW DRAINAGE SYSTEM PLAN, SECTIONS & DETAILS," DATED SEPTEMBER 21, 1973.
10. NIAGARA MOHAWK POWER CORPORATION. DRAWING NO. G-18266-E, TITLED "GLOVERSVILLE SERVICE CENTER, NEW PARKING LOT & DRAINAGE PLAN & DETAILS," DATED APRIL 24, 1974, REVISED JULY 21, 1994.
11. NIAGARA MOHAWK POWER CORPORATION. DRAWING NO. G-19162-E, TITLED "GLOVERSVILLE SERVICE CENTER, GRADING AND PAVING," DATED AUGUST 9, 1977.
12. NMB LAND SURVEYING, PLLC. DRAWING TITLED "POST CONSTRUCTION SURVEY, GLOVERSVILLE (HILL STREET) FORMER MGP SITE, DRAINAGE IMPROVEMENTS," DATED FEBRUARY 17, 2025. PREPARED FOR NATIONAL GRID.
13. THEW ASSOCIATES LS, PLLC. DRAWING TITLED "MAP SHOWING TOPOGRAPHIC CONDITIONS, NATIONAL GRID – GLOVERSVILLE SITE, DEC SITE NO. 518021," DATED OCTOBER 17, 2025, REVISED FEBRUARY 25, 2026. PREPARED FOR ARCADIS OF NEW YORK, INC.

ABBREVIATIONS AND ACRONYMS:

AVG.	AVERAGE
BGS	BELOW GROUND SURFACE
CFR	CODE OF FEDERAL REGULATIONS
CIP	CAST IRON PIPE
CLF	CHAIN-LINK FENCE
CLSM	CONTROLLED LOW-STRENGTH MATERIAL
CONC.	CONCRETE
CY	IN-SITU CUBIC YARD
DIP	DUCTILE IRON PIPE
EA.	EACH
EL.	ELEVATION
GA.	GAUGE
GALV.	GALVANIZED
HDPE	HIGH-DENSITY POLYETHYLENE
ID	INSIDE DIAMETER
INV.	INVERT
KSI	THOUSAND POUNDS PER SQUARE INCH
LF	LINEAR FOOT
MAX.	MAXIMUM
MGP	MANUFACTURED GAS PLANT
MIN.	MINIMUM
NAD83	NORTH AMERICAN DATUM OF 1983
NAPL	NON-AQUEOUS PHASE LIQUID
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
NA	NOT AVAILABLE
NO.	NUMBER
NYSDEC	NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
OD	OUTSIDE DIAMETER
PE	POLYETHYLENE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
ROW	RIGHT-OF-WAY
SCH.	SCHEDULE
SF	SQUARE FOOT
SQ.	SQUARE
SS	STAINLESS STEEL
STA.	STATION
TEMP.	TEMPORARY
TYP.	TYPICAL
VCP	VITRIFIED CLAY PIPE

LEGEND:

- PROJECT WORK LIMIT
- BUILDING
- CONCRETE
- PROPERTY LINE (APPROXIMATE)
- INTERIOR DEED LINE (APPROXIMATE)
- TOPOGRAPHIC CONTOUR (1-FOOT INTERVAL) — 768
- EDGE OF PAVEMENT
- EDGE OF GRAVEL
- EDGE OF WATER (APPROXIMATE)
- EDGE OF WETLAND (APPROXIMATE)
- CHAIN-LINK FENCE
- GUARD RAIL
- WOOD POST FENCE
- RIPRAP
- EDGE OF WOODS/VEGETATION
- TREE
- BOLLARD
- SIGN
- MONITORING WELL
- PIEZOMETER
- HYDRANT
- UTILITY POLE
- UTILITY POLE WITH LIGHT
- GUY WIRE
- LIGHT POLE
- SANITARY SEWER MANHOLE
- CATCH BASIN
- STORM SEWER MANHOLE
- UNDERDRAIN MANHOLE
- OVERHEAD WIRES — OH
- UNDERGROUND ELECTRIC LINE — E
- UNDERGROUND GAS LINE — G
- ABANDONED GAS LINE — ABAN
- SANITARY SEWER LINE — S
- STORM SEWER LINE — D
- WATER LINE — W
- UNDERDRAIN LINE — DR
- GAS MARKER
- GAS STRUCTURE
- GAS VALVE
- WATER VALVE

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: MICHAEL J. BENOIT
Professional Engineer's No.: 088936
State: NY | Date Signed: - | Project Mgr.: SAP
Designed by: DGN | Drawn by: BKD | Checked by: MJB

DRAFT NOT FOR CONSTRUCTION

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

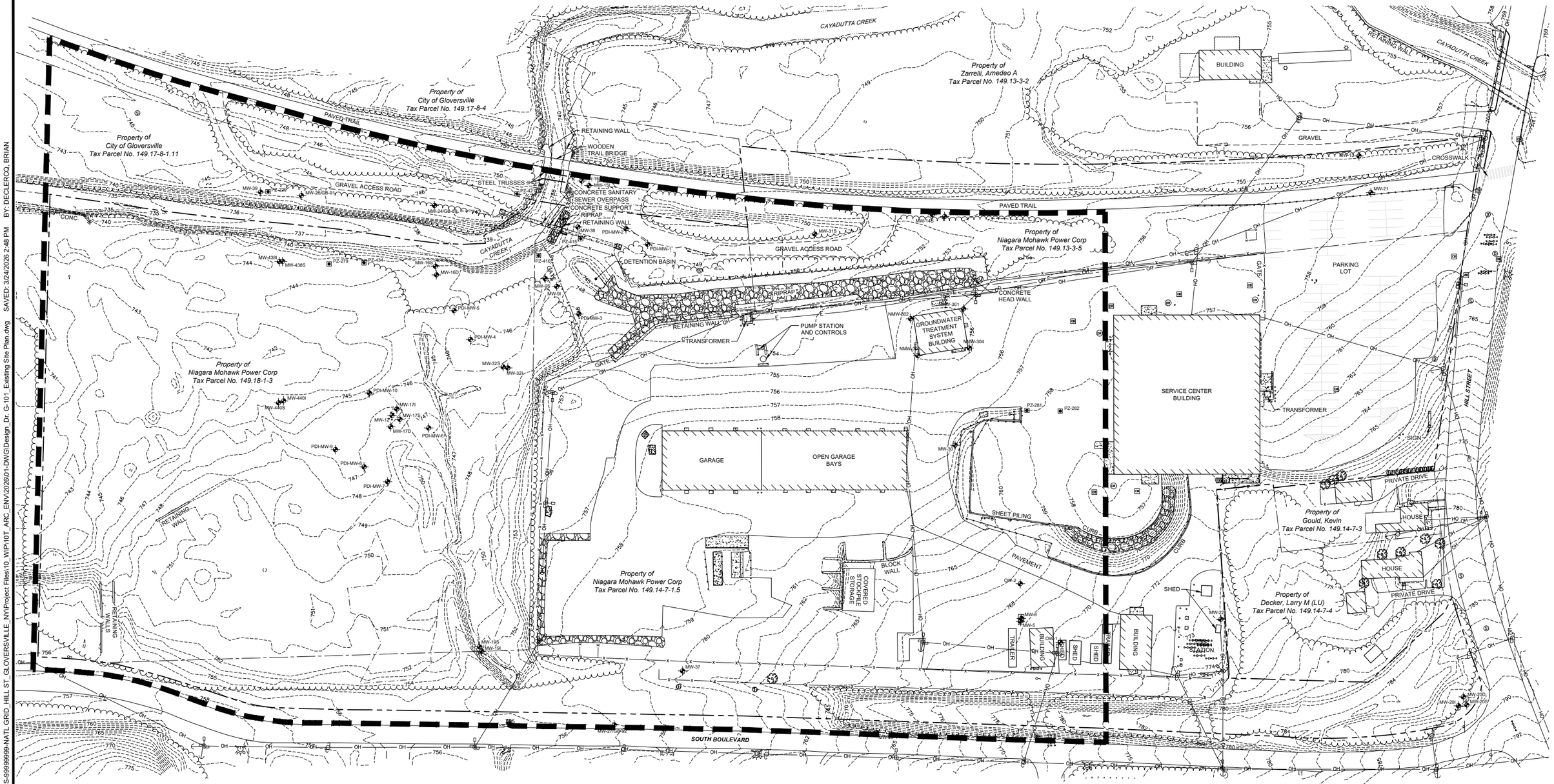
NIAGARA MOHAWK POWER CORPORATION, D/B/A NATIONAL GRID ● SYRACUSE, NEW YORK
GLOVERSVILLE (HILL STREET) FORMER MGP SITE
SITE REMEDIATION

GENERAL NOTES, REFERENCE DRAWINGS, ABBREVIATIONS, AND LEGEND

ARCADIS Project No. 30227508
Date MAY 2026

ARCADIS
ONE LINCOLN CENTER
110 W FAYETTE STREET
SYRACUSE, NY 13202
TELEPHONE: 315-446-9120

G-002



XREFS:
Design_X_Existing Topo
Design_X_Title Block
Design_X_Base
Design_X_Utilities

NOTES:

1. SITE FEATURES ARE APPROXIMATE AND SHALL BE FIELD-VERIFIED BY CONTRACTOR BEFORE INITIATING WORK.
2. CONTRACTOR TO LIMIT WORK ACTIVITIES WITHIN THE SERVICE CENTER AREA TO THE EXTENT POSSIBLE AND COORDINATE WITH OWNER AS NECESSARY TO IMPLEMENT REQUIRED WORK.

50' 0 50' 100'
1"=50'

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No.	Date	Revisions	By	Ckd

Professional Engineer's Name: MICHAEL J. BENOIT		
Professional Engineer's No.: 088936		
State: NY	Date Signed: .	Project Mgr.: SAP
Designed by: DGN	Drawn by: BKD	Checked by: MJB

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NIAGARA MOHAWK POWER CORPORATION, D/B/A NATIONAL GRID ● SYRACUSE, NEW YORK
GLOVERSVILLE (HILL STREET) FORMER MGP SITE
SITE REMEDIATION

EXISTING SITE PLAN

ARCADIS Project No.: 30227508
Date: MAY 2026

ARCADIS
ONE LINCOLN CENTER
110 W FAYETTE STREET
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TELEPHONE: 315-446-9120

G-101

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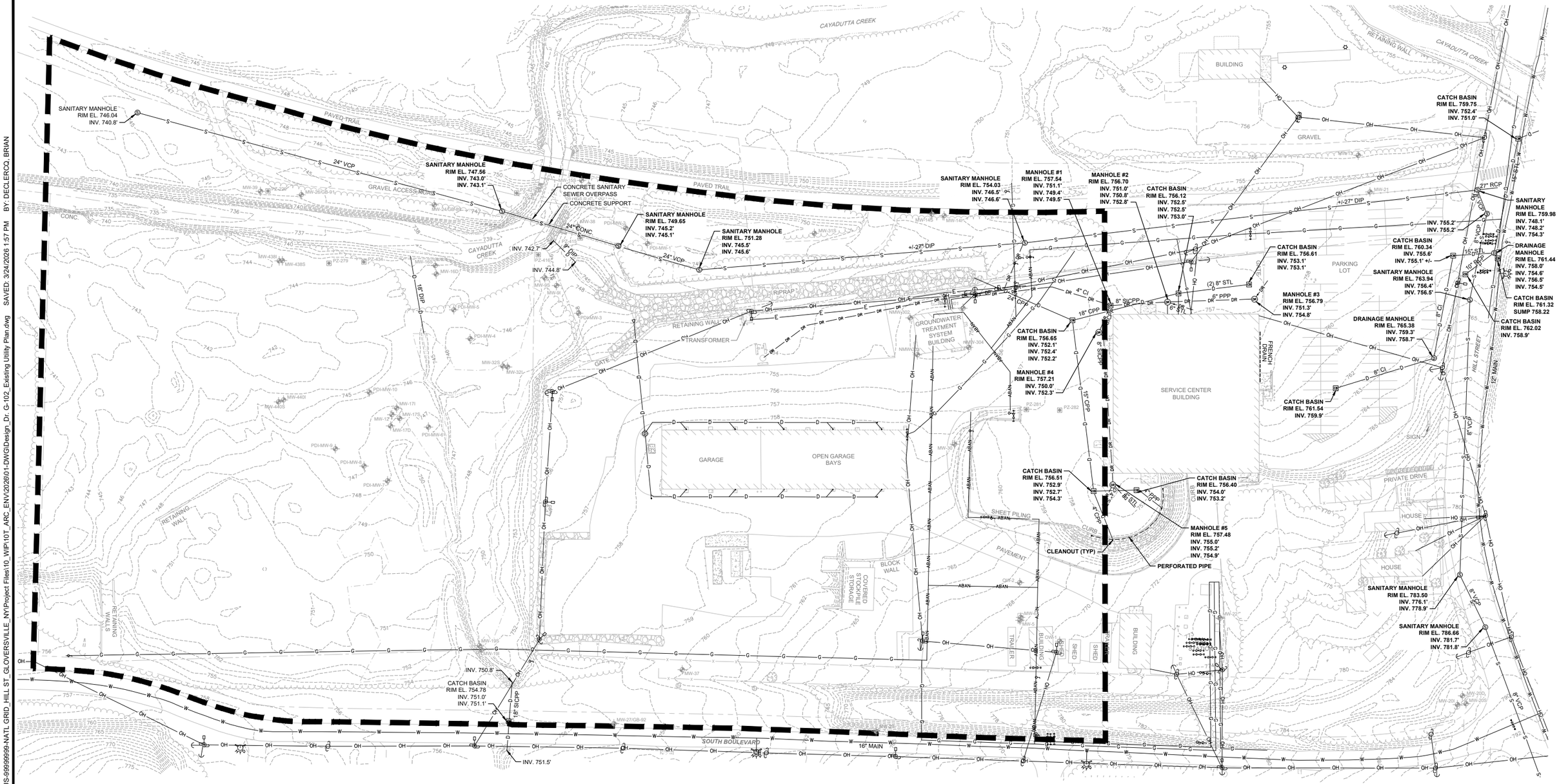

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XREFS:
Design_X_Title Block
Design_X_Base
Design_X_Utilities
Design_X_Utilities-2
Design_X_Existing Topo

50' 0 50' 100'
1"=50'

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No.	Date	Revisions	By	Ckd

Professional Engineer's Name
MICHAEL J. BENOIT
Professional Engineer's No.
088936

State	Date Signed	Project Mgr.
NY		SAP
Designed by	Drawn by	Checked by
DGN	BKD	MJB

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ARCADIS OF NEW YORK, INC.

NIAGARA MOHAWK POWER CORPORATION, D/B/A NATIONAL GRID • SYRACUSE, NEW YORK
GLOVERSVILLE (HILL STREET) FORMER MGP SITE
SITE REMEDIATION

EXISTING SITE UTILITY PLAN

ARCADIS Project No.
30227508

Date
MAY 2026

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SYRACUSE, NY 13202
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G-102

LEGEND:

- PDI DIRECT-PUSH BORING
- PDI CREEK BORING
- PDI GEOTECHNICAL BORING
- PDI STAFF GAUGE
- PUMPING WELL
- MONITORING WELL
- PIEZOMETER
- SOIL BORING
- ANGLED SOIL BORING, ARROW INDICATES DIRECTION OF ANGLE
- ABANDONED MONITORING WELL/PIEZOMETER
- TEST EXCAVATION LOCATION
- TEST PIT
- SURFACE SOIL SAMPLE
- SOIL VAPOR SAMPLE

XREFS:
Design_X_Title Block
Design_X_Base
Design_X_Utilities
Design_X_Utilities-2
Design_X_Existing Topo
Design_X_Former MGP

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1"=50' (50' 0 50' 100')

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

No.	Date	Revisions	By	Ckd

Professional Engineer's Name		
MICHAEL J. BENOIT		
Professional Engineer's No.		
088936		
State	Date Signed	Project Mgr.
NY		SAP
Designed by	Drawn by	Checked by
DGN	BKD	MJB

DRAFT NOT FOR CONSTRUCTION

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NIAGARA MOHAWK POWER CORPORATION, D/B/A NATIONAL GRID • SYRACUSE, NEW YORK
GLOVERSVILLE (HILL STREET) FORMER MGP SITE
SITE REMEDIATION

EXISTING SITE INVESTIGATION PLAN

ARCADIS Project No.
30227508

Date
MAY 2026

ARCADIS
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110 W FAYETTE STREET
SYRACUSE, NY 13202
TELEPHONE: 315-446-9120

G-103

SCHEDULE OF EXISTING WELLS AND PIEZOMETERS

LOCATION ID	EASTING (FEET NAD83)	NORTHING (FEET NAD83)	GROUND SURFACE ELEVATION (FEET NAVD88)	MEASURING POINT ELEVATION (FEET NAVD88)	SURFACE COMPLETION	WELL CASING AND SCREEN MATERIAL	NOMINAL WELL DIAMETER (INCHES)	SCREEN SLOT SIZE (INCHES)	SCREEN LENGTH (FEET)	SCREENED INTERVAL (FEET BGS)	SUMP LENGTH (FEET)	TOTAL DEPTH (FEET BGS)
MONITORING WELLS												
MW-5	532284.86	1531241.40	768.93	768.86	FLUSH-MOUNT	SS	2.0	0.020	10.0	29 - 39	0.0	39.0
MW-6	532281.75	1531242.11	768.88	769.70	STICK-UP	SS	2.0	0.020	10.0	5.5 - 15.5	0.0	15.5
MW-9S	531934.30	1530755.26	746.29	748.38	STICK-UP	SS	2.0	0.010	10.0	7.5 - 17.5	0.0	17.5
MW-9I	531942.31	1530767.21	747.78	749.43	STICK-UP	PVC	2.0	0.020	10.0	30.0 - 40.0	2.0	42.0
MW-12	532074.40	1530598.76	747.64	749.65	STICK-UP	SS	2.0	0.020	10.0	3.0 - 13.0	0.0	13.0
MW-13	531808.96	1531587.39	755.63	758.63	STICK-UP	SS	2.0	0.020	10.0	1.0 - 11.0	0.0	11.0
MW-14S	531869.10	1531151.36	753.24	755.60	STICK-UP	PVC	2.0	0.020	10.0	8.0 - 18.0	2.0	20.0
MW-14I	531870.84	1531163.73	753.29	756.66	STICK-UP	PVC	2.0	0.020	10.0	45.0 - 55.0	2.0	57.0
MW-15S	531834.67	1530792.91	751.28	753.94	STICK-UP	PVC	2.0	0.020	10.0	10.0 - 20.0	2.0	22.0
MW-15I	531839.33	1530800.17	751.27	753.69	STICK-UP	PVC	2.0	0.020	10.0	36.5 - 46.5	2.0	48.5
MW-16S	531921.78	1530643.23	744.20	746.44	STICK-UP	PVC	2.0	0.020	5.0	5.0 - 10.0	2.0	12.0
MW-16D	531930.48	1530644.18	744.30	746.91	STICK-UP	PVC	2.0	0.020	10.0	51.0 - 61.0	2.0	63.0
MW-17S	532078.22	1530606.82	746.50	749.02	STICK-UP	PVC	2.0	0.020	10.0	5.0 - 15.0	2.0	17.0
MW-17I	532067.64	1530603.69	746.98	749.01	STICK-UP	PVC	2.0	0.020	10.0	33.3 - 43.3	2.0	45.3
MW-17D	532085.91	1530597.41	746.94	749.29	STICK-UP	PVC	2.0	0.020	10.0	61.0 - 71.0	2.0	73.0
MW-19S	532310.72	1530688.25	750.36	754.48	STICK-UP	PVC	2.0	0.020	5.0	4.0 - 9.0	2.0	11.0
MW-19I	532315.30	1530690.43	750.27	754.51	STICK-UP	PVC	2.0	0.020	10.0	19.5 - 29.5	2.0	31.5
MW-20S	532370.22	1531697.71	789.94	792.27	STICK-UP	PVC	2.0	0.020	10.0	19.0 - 29.0	2.0	31.0
MW-20I	532371.08	1531688.93	789.52	791.86	STICK-UP	PVC	2.0	0.020	10.0	50.0 - 60.0	2.0	62.0
MW-20D	532362.00	1531694.13	789.73	791.86	STICK-UP	PVC	2.0	0.020	10.0	102.0 - 112.0	2.0	114.0
MW-21	531846.43	1531599.44	758.23	758.03	FLUSH-MOUNT	PVC	2.0	0.020	10.0	5.0 - 15.0	2.0	17.0
MW-22	532282.54	1531446.22	773.10	772.61	FLUSH-MOUNT	PVC	2.0	0.020	10.0	18.0 - 28.0	2.0	30.0
MW-23	531868.21	1530045.75	739.29	741.50	STICK-UP	PVC	2.0	0.020	10.0	5.0 - 15.0	2.0	17.0
MW-24	531859.61	1530642.15	745.78	747.90	STICK-UP	PVC	2.0	0.020	10.0	5.0 - 15.0	2.0	17.0
MW-25	531710.80	1530610.89	746.44	748.87	STICK-UP	PVC	2.0	0.020	10.0	5.0 - 15.0	2.0	17.0
MW-26	531849.35	1530506.09	744.65	747.01	STICK-UP	PVC	2.0	0.020	10.0	5.0 - 15.0	2.0	17.0
MW-27	532390.67	1530826.04	757.18	756.78	FLUSH-MOUNT	PVC	2.0	0.020	10.0	5.0 - 15.0	2.0	17.0
MW-28	532398.36	1531094.23	764.14	763.84	FLUSH-MOUNT	PVC	2.0	0.020	10.0	5.0 - 15.0	2.0	17.0
MW-30	532104.68	1531174.42	759.60	759.55	FLUSH-MOUNT	NA	NA	NA	10.0	8.0 - 18.0	NA	NA
MW-31S	531888.72	1531030.95	748.97	751.41	STICK-UP	NA	NA	NA	NA	NA - NA	NA	NA
MW-32S	532024.63	1530712.31	746.63	749.22	STICK-UP	PVC	2.0	NA	NA	NA - NA	NA	15.0
MW-32I	532025.63	1530717.20	745.97	748.51	STICK-UP	PVC	2.0	NA	NA	NA - NA	NA	45.0
MW-37	532335.44	1530895.84	759.73	761.63	STICK-UP	PVC	2.0	0.020	10.0	8.0 - 18.0	2.0	20.0
MW-38	531881.63	1530788.80	748.52	750.37	STICK-UP	PVC	2.0	0.020	5.0	6.0 - 11.0	2.0	13.0
MW-39	531845.85	1530464.29	744.15	746.29	STICK-UP	PVC	2.0	0.020	10.0	7.0 - 17.0	2.0	19.0
MW-438S	531916.80	1530486.91	743.53	746.47	STICK-UP	PVC	2.0	0.010	9.5	4.5 - 14.0	2.0	16.0
MW-438I	531916.96	1530483.47	743.74	746.74	STICK-UP	PVC	2.0	0.010	9.5	40.5 - 50.0	2.0	52.0
MW-440S	532061.28	1530482.78	744.10	746.78	STICK-UP	PVC	2.0	0.010	9.5	4.5 - 14.0	2.0	16.0
MW-440I	532059.33	1530487.94	744.04	746.78	STICK-UP	PVC	2.0	0.010	10.0	7.0 - 17.0	2.0	19.0
NMW-301	531965.38	1531183.09	755.53	755.26	FLUSH-MOUNT	PVC	4.0	0.020	5.0	2.0 - 7.0	1.0	8.0
NMW-302	531975.31	1531128.91	755.57	755.12	FLUSH-MOUNT	PVC	4.0	0.020	5.0	2.0 - 7.0	1.0	8.0
NMW-303	532013.11	1531136.47	755.69	755.37	FLUSH-MOUNT	PVC	4.0	0.020	7.0	2.0 - 9.0	1.0	10.0
NMW-304	532005.38	1531188.94	755.85	755.38	FLUSH-MOUNT	PVC	4.0	0.020	10.0	2.0 - 12.0	1.0	13.0
OW-1	532306.21	1531282.02	769.44	NA	FLUSH-MOUNT	PVC	2.0	0.020	10.0	12.0 - 22.0	0.5	22.5
OW-2	532246.31	1531241.10	767.02	NA	FLUSH-MOUNT	PVC	2.0	0.020	10.0	13.0 - 23.0	0.5	23.5
PDI-MW-1	531899.85	1530859.24	749.73	751.73	STICK-UP	PVC	2.0	0.020	5.0	5.5 - 10.5	2.0	12.5
PDI-MW-2	531883.42	1530837.96	750.43	752.43	STICK-UP	PVC	2.0	0.020	5.0	5.5 - 10.5	2.0	12.5
PDI-MW-3	531970.58	1530789.82	749.77	751.77	STICK-UP	PVC	2.0	0.020	10.0	3.0 - 13.0	2.0	15.0
PDI-MW-4	531996.30	1530678.72	747.93	749.93	STICK-UP	PVC	2.0	0.020	5.0	6.0 - 11.0	2.0	13.0
PDI-MW-5	531967.31	1530661.72	747.21	749.21	STICK-UP	PVC	2.0	0.020	10.0	3.5 - 13.5	2.0	15.5
PDI-MW-6	532087.20	1530635.88	749.28	751.28	STICK-UP	PVC	2.0	0.020	5.0	4.0 - 9.0	2.0	11.0
PDI-MW-7	532142.11	1530593.38	749.42	751.42	STICK-UP	PVC	2.0	0.020	5.0	5.0 - 10.0	2.0	12.0
PDI-MW-8	532127.62	1530569.28	749.02	751.02	STICK-UP	PVC	2.0	0.020	5.0	2.0 - 7.0	2.0	9.0
PDI-MW-9	532109.23	1530540.92	748.86	750.86	STICK-UP	PVC	2.0	0.020	5.0	3.0 - 8.0	2.0	10.0
PDI-MW-10	532051.65	1530576.03	747.73	749.73	STICK-UP	PVC	2.0	0.020	5.0	5.0 - 10.0	2.0	12.0
PIEZOMETERS												
PZ-229	531845.47	1530472.09	NA	NA	NA	PVC	2.0	0.020	2.0	28.0 - 30.0	0.0	30.0
PZ-279	531919.42	1530534.45	743.51	745.55	STICK-UP	PVC	2.0	0.020	10.0	10.0 - 20.0	2.0	22.0
PZ-281	532069.06	1531247.97	758.02	757.42	FLUSH-MOUNT	PVC	2.0	0.020	5.0	5.0 - 10.0	2.0	12.0
PZ-282	532069.78	1531282.01	758.28	757.88	FLUSH-MOUNT	PVC	2.0	0.020	5.0	5.0 - 10.0	2.0	12.0
PZ-415	531893.54	1530791.68	NA	NA	NA	NA	NA	NA	NA	NA - NA	NA	NA
PZ-416	531910.74	1530748.55	745.55	748.60	STICK-UP	PVC	2.0	0.010	6.0	4.0 - 10.0	2.0	12.0
PZ-421	531847.70	1530727.00	746.54	749.35	STICK-UP	PVC	2.0	0.020	9.5	4.5 - 14.0	2.0	16.0
PZ-434	531917.00	1530570.08	742.76	745.55	STICK-UP	PVC	2.0	0.020	5.0	28.0 - 33.0	2.0	35.0

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XREFS:
Design_X_Title Block

NOT TO SCALE

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No.	Date	Revisions	By	Ckd

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DRAFT NOT FOR CONSTRUCTION

ARCADIS
ARCADIS OF NEW YORK, INC.

NIAGARA MOHAWK POWER CORPORATION, D/B/A NATIONAL GRID ● SYRACUSE, NEW YORK
GLOVERSVILLE (HILL STREET) FORMER MGP SITE
SITE REMEDIATION

SCHEDULE OF EXISTING WELLS AND PIEZOMETERS

ARCADIS Project No.: 30227508
Date: MAY 2026

ARCADIS
ONE LINCOLN CENTER
110 W FAYETTE STREET
SYRACUSE, NY 13202
TELEPHONE: 315-446-9120

G-601

TEMPORARY EROSION AND SEDIMENT CONTROL NOTES:

1. COMPLY WITH SPECIFICATIONS SECTION 01 41 26 (STORM WATER POLLUTION PREVENTION PLAN AND PERMIT) AND EROSION AND SEDIMENT CONTROL REQUIREMENTS OF SPECIFICATIONS SECTION 01 57 05 (TEMPORARY CONTROLS).
2. INSTALL EROSION AND SEDIMENT CONTROLS BEFORE DISTURBING ANY SOILS OR VEGETATION AT THE SITE.
3. ADJUST, RELOCATE, OR PROVIDE ADDITIONAL EROSION AND SEDIMENT CONTROLS AS WORK PROGRESSES INTO PREVIOUSLY UNDISTURBED AREAS OF THE SITE.
4. TURBIDITY CURTAIN AND OIL ABSORBENT BOOM SHALL BE INSTALLED PRIOR TO INTRUSIVE ACTIVITIES IN THE CREEK OR CREEK BANK AND RELOCATED AS NEEDED BASED ON THE LOCATION OF INTRUSIVE ACTIVITIES.
5. DO NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF WATER QUALITY STANDARDS, LAWS, OR REGULATIONS.
6. MAINTAIN TEMPORARY EROSION AND SEDIMENT CONTROLS UNTIL THE SITE IS RESTORED AND SITE IMPROVEMENTS INCLUDING LANDSCAPING, IF ANY, ARE COMPLETE WITH UNDERLYING SOILS PERMANENTLY STABILIZED.

TEMPORARY CONSTRUCTION FACILITIES NOTES:

1. TEMPORARY CONSTRUCTION FACILITIES INCLUDE, BUT ARE NOT LIMITED TO, TEMPORARY UTILITIES, FIELD OFFICES AND SHEDS, FIRST-AID FACILITIES, SANITARY FACILITIES, TEMPORARY ACCESS ROADS AND PARKING AREAS, TEMPORARY DECONTAMINATION AREAS, AND TEMPORARY CONTAINMENT AREAS.
2. IDENTIFY PROPOSED LOCATION AND LAYOUT OF TEMPORARY CONSTRUCTION FACILITIES AND EQUIPMENT AND MATERIAL STORAGE AREAS IN CONTRACTOR'S PROJECT OPERATIONS PLAN IN ACCORDANCE WITH SPECIFICATION SECTION 01 15 00 (CONTRACTOR'S PROJECT OPERATIONS PLAN).
3. REMOVE, RELOCATE, AND REINSTALL TEMPORARY CONSTRUCTION FACILITIES AS NECESSARY TO ACCOMMODATE THE WORK.
4. COMPLETELY REMOVE TEMPORARY CONSTRUCTION FACILITIES WHEN NO LONGER REQUIRED. REPAIR DAMAGE CAUSED BY TEMPORARY CONSTRUCTION FACILITIES AND THEIR REMOVAL, AND RESTORE THE SITE TO CONDITION REQUIRED BY THE CONTRACT DOCUMENTS. IF RESTORATION OF DAMAGED AREAS IS NOT SPECIFIED, RESTORE TO PRE-CONSTRUCTION CONDITION.

WELL PROTECTION AND DECOMMISSIONING NOTES:

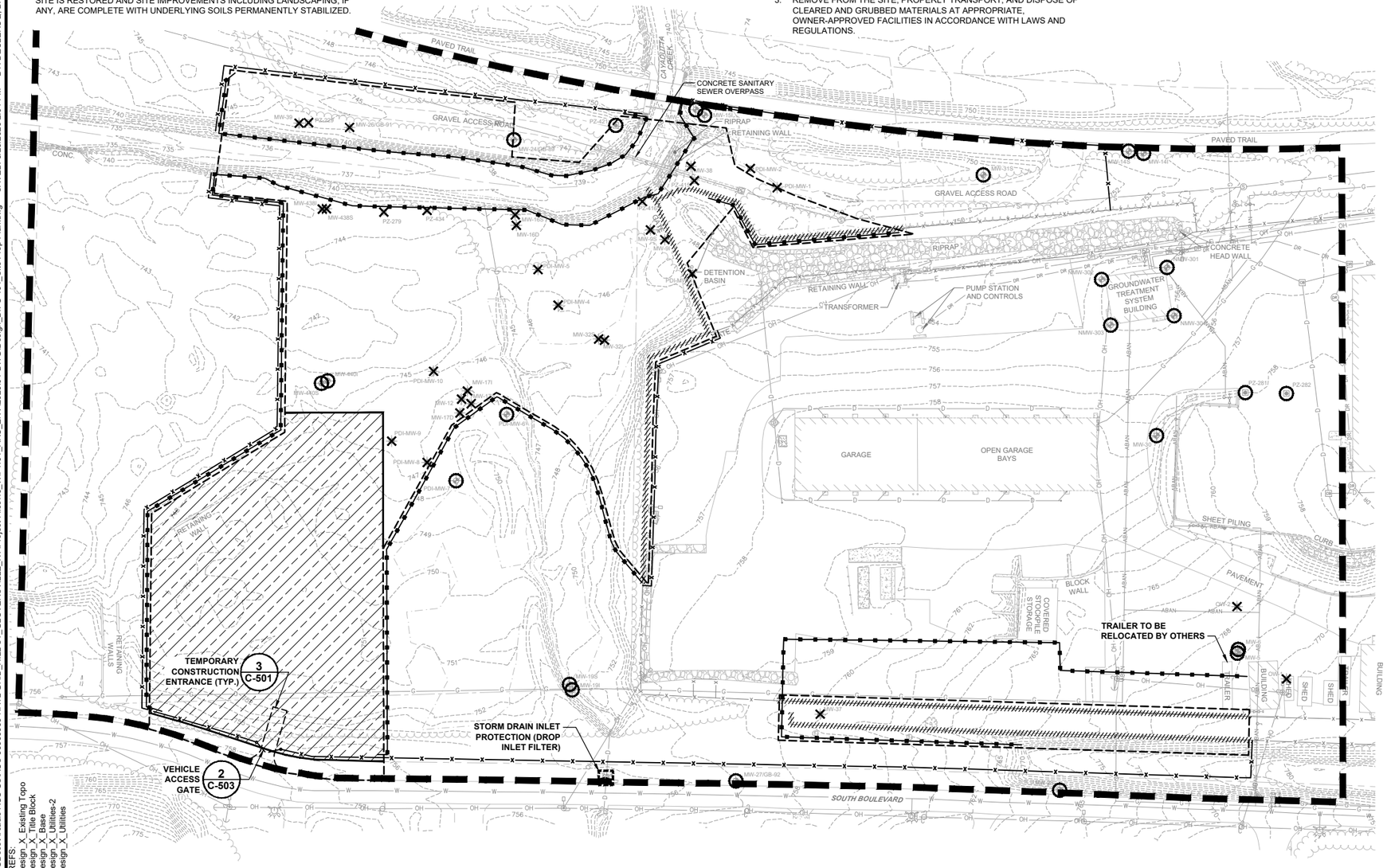
1. COMPLY WITH SPECIFICATIONS SECTIONS 01 71 33 (PROTECTION OF THE WORK AND PROPERTY) AND 33 29 00 (WELL DECOMMISSIONING).
2. COORDINATE WELL MODIFICATIONS (IF ANY) AND DECOMMISSIONING WITH SITE CLEARING AND SELECTIVE DEMOLITION OPERATIONS.
3. COMPLETE WELL DECOMMISSIONING BEFORE INITIATING REMEDIAL EXCAVATION WORK.

CLEARING AND GRUBBING NOTES:

1. COMPLY WITH SPECIFICATIONS SECTION 31 11 00 (CLEARING AND GRUBBING).
2. REMOVE ALL TREES, SHRUBS, STUMPS, ROOTS, BRUSH, LOGS, RUBBISH, AND DEBRIS WITHIN LIMITS OF CLEARING AND GRUBBING SHOWN OR INDICATED.
3. REMOVE FROM THE SITE, PROPERLY TRANSPORT, AND DISPOSE OF CLEARED AND GRUBBED MATERIALS AT APPROPRIATE, OWNER-APPROVED FACILITIES IN ACCORDANCE WITH LAWS AND REGULATIONS.

SELECTIVE DEMOLITION NOTES:

1. COMPLY WITH SPECIFICATIONS SECTION 02 41 19 (SELECTIVE DEMOLITION).
2. COORDINATE THE REMOVAL OF EXISTING PERIMETER FENCING AND INSTALLATION OF NEW TEMPORARY CONSTRUCTION FENCING SO THAT INTEGRITY OF SITE SECURITY AND PROTECTION OF PEDESTRIANS ARE MAINTAINED THROUGHOUT THE PROJECT.
3. HANDLING AND DISPOSAL OF SELECTIVE DEMOLITION WASTE SHALL BE IN ACCORDANCE WITH LAWS AND REGULATIONS AND SPECIFICATIONS SECTIONS 01 74 19 (CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL) AND 02 60 05 (CONTAMINATED WASTE MANAGEMENT AND DISPOSAL).



WELL PROTECTION AND DECOMMISSIONING SCHEDULE

WELL ID	WELL CASING AND SCREEN MATERIAL	NOMINAL WELL DIAMETER (INCHES)	TOTAL DEPTH (FEET BGS)	ACTION
MONITORING WELLS				
MW-5	SS	2.0	39.0	PROTECT
MW-6	SS	2.0	15.5	PROTECT
MW-9S	SS	2.0	17.5	OVERDRILL AND GROUT (DECOMMISSION)
MW-9I	PVC	2.0	42.0	OVERDRILL AND GROUT (DECOMMISSION)
MW-12	SS	2.0	13.0	OVERDRILL AND GROUT (DECOMMISSION)
MW-14S	PVC	2.0	20.0	PROTECT
MW-14I	PVC	2.0	57.0	PROTECT
MW-15S	PVC	2.0	22.0	PROTECT
MW-15I	PVC	2.0	48.5	PROTECT
MW-16S	PVC	2.0	12.0	OVERDRILL AND GROUT (DECOMMISSION)
MW-16D	PVC	2.0	63.0	OVERDRILL AND GROUT (DECOMMISSION)
MW-17S	PVC	2.0	17.0	OVERDRILL AND GROUT (DECOMMISSION)
MW-17I	PVC	2.0	45.3	OVERDRILL AND GROUT (DECOMMISSION)
MW-17D	PVC	2.0	73.0	OVERDRILL AND GROUT (DECOMMISSION)
MW-19S	PVC	2.0	11.0	PROTECT
MW-19I	PVC	2.0	31.5	PROTECT
MW-24	PVC	2.0	17.0	PROTECT
MW-26	PVC	2.0	17.0	OVERDRILL AND GROUT (DECOMMISSION)
MW-27	PVC	2.0	17.0	PROTECT
MW-28	PVC	2.0	17.0	PROTECT
MW-30	NA	NA	NA	PROTECT
MW-31S	NA	NA	NA	PROTECT
MW-32S	PVC	2.0	15.0	OVERDRILL AND GROUT (DECOMMISSION)
MW-32I	PVC	2.0	45.0	OVERDRILL AND GROUT (DECOMMISSION)
MW-37	PVC	2.0	20.0	GROUT IN-PLACE (DECOMMISSION)
MW-38	PVC	2.0	13.0	GROUT IN-PLACE (DECOMMISSION)
MW-39	PVC	2.0	19.0	GROUT IN-PLACE (DECOMMISSION)
MW-438S	PVC	2.0	16.0	GROUT IN-PLACE (DECOMMISSION)
MW-438I	PVC	2.0	52.0	OVERDRILL AND GROUT (DECOMMISSION)
MW-440S	PVC	2.0	16.0	PROTECT
MW-440I	PVC	2.0	19.0	PROTECT
NMW-301	PVC	4.0	8.0	PROTECT
NMW-302	PVC	4.0	8.0	PROTECT
NMW-303	PVC	4.0	10.0	PROTECT
NMW-304	PVC	4.0	13.0	PROTECT
OW-1	PVC	2.0	22.5	GROUT IN-PLACE (DECOMMISSION)
OW-2	PVC	2.0	23.5	GROUT IN-PLACE (DECOMMISSION)
PDI-MW-1	PVC	2.0	12.5	OVERDRILL AND GROUT (DECOMMISSION)
PDI-MW-2	PVC	2.0	12.5	OVERDRILL AND GROUT (DECOMMISSION)
PDI-MW-3	PVC	2.0	15.0	OVERDRILL AND GROUT (DECOMMISSION)
PDI-MW-4	PVC	2.0	13.0	OVERDRILL AND GROUT (DECOMMISSION)
PDI-MW-5	PVC	2.0	15.5	OVERDRILL AND GROUT (DECOMMISSION)
PDI-MW-6	PVC	2.0	11.0	PROTECT
PDI-MW-7	PVC	2.0	12.0	PROTECT
PDI-MW-8	PVC	2.0	9.0	GROUT IN-PLACE (DECOMMISSION)
PDI-MW-9	PVC	2.0	10.0	OVERDRILL AND GROUT (DECOMMISSION)
PDI-MW-10	PVC	2.0	12.0	OVERDRILL AND GROUT (DECOMMISSION)
PIEZOMETERS				
PZ-229	PVC	2.0	30.0	OVERDRILL AND GROUT (DECOMMISSION)
PZ-279	PVC	2.0	22.0	OVERDRILL AND GROUT (DECOMMISSION)
PZ-281	PVC	2.0	12.0	PROTECT
PZ-282	PVC	2.0	12.0	PROTECT
PZ-415	PVC	2.0	12.0	OVERDRILL AND GROUT (DECOMMISSION)
PZ-416	PVC	2.0	12.0	OVERDRILL AND GROUT (DECOMMISSION)
PZ-421	PVC	2.0	16.0	PROTECT
PZ-434	PVC	2.0	35.0	OVERDRILL AND GROUT (DECOMMISSION)

LEGEND:

- SILT FENCE 1 C-501 OR STRAW BALE DIKE 2 C-501
- TURBIDITY CURTAIN AND OIL ABSORBENT BOOM (SEE NOTE 4) 4 C-501
- TEMPORARY SITE SECURITY FENCE 5 C-502
- EXISTING WELL/PIEZOMETER TO BE PROTECTED
- EXISTING WELL/PIEZOMETER TO BE DECOMMISSIONED
- LIMIT OF CLEARING AND GRUBBING
- EXISTING FEATURE TO BE REMOVED
- AREA AVAILABLE TO CONTRACTOR FOR TEMPORARY CONSTRUCTION FACILITIES AND EQUIPMENT AND MATERIAL STORAGE

XREFS:
Design_X_Existing Topo
Design_X_Title Block
Design_X_Base
Design_X_Utilities-2
Design_X_Utilities

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50' 0 50' 100'
1"=50'

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

No.	Date	Revisions	By	Ckd

Professional Engineer's Name: MICHAEL J. BENOIT
Professional Engineer's No.: 088936
State: NY | Date Signed: | Project Mgr.: SAP
Designed by: DGN | Drawn by: BKD | Checked by: MJB

DRAFT NOT FOR CONSTRUCTION

ARCADIS
ARCADIS OF NEW YORK, INC.

NIAGARA MOHAWK POWER CORPORATION, D/B/A NATIONAL GRID ● SYRACUSE, NEW YORK
GLOVERSVILLE (HILL STREET) FORMER MGP SITE
SITE REMEDIATION

SITE PREPARATION PLAN

ARCADIS Project No. 30227508
Date MAY 2026

ARCADIS
ONE LINCOLN CENTER
110 W FAYETTE STREET
SYRACUSE, NY 13202
TELEPHONE: 315-446-9120

C-101

NOTE TO NYSDEC: RESTRICTIONS FOR REMEDIAL EXCAVATION WORK AROUND/NEAR THE ACTIVE SANITARY SEWER LINE (CRITICAL INFRASTRUCTURE) IN THESE REMEDIAL EXCAVATION AREAS, INCLUDING REQUIRED OFF-SETS, MONITORING, AND PROTECTION MEASURES, TO BE DETERMINED AS PART OF THE DRAFT FINAL REMEDIAL DESIGN REPORT.

NOTE TO NYSDEC: RESTRICTIONS FOR REMEDIAL EXCAVATION WORK NEAR/AROUND THE ACTIVE GAS LINES (CRITICAL INFRASTRUCTURE) IN THIS REMEDIAL EXCAVATION AREA, INCLUDING REQUIRED OFF-SETS, MONITORING, AND PROTECTION MEASURES, TO BE DETERMINED AS PART OF THE DRAFT FINAL REMEDIAL DESIGN REPORT.

C-105

LEGEND:

- NAPL BARRIER WALL ALIGNMENT
- HORIZONTAL LIMITS OF EXCAVATION TO TOP OF SILT
- HORIZONTAL LIMITS OF EXCAVATION TO 5 FEET BGS
- HORIZONTAL LIMITS OF SURFACE SOIL EXCAVATION
- EXCAVATION DEPTH CONTOUR TO TOP OF SILT (APPROXIMATE)
- EXISTING UTILITY TO BE PROTECTED (SEE NOTE 3)
- SHALLOW BANK EXCAVATION

NOTES:

1. COMPLY WITH SPECIFICATION SECTION 31 23 00 (EXCAVATION AND FILL).
2. COORDINATE EXCAVATION AND BACKFILLING OPERATIONS WITH TEMPORARY CREEK BYPASS WORK.
3. DESIGN AND PROVIDE TEMPORARY EXCAVATION SUPPORT AND PROTECTION SYSTEMS, DESIGNED BY A PROFESSIONAL ENGINEER, WHERE NEEDED/INDICATED IN ACCORDANCE WITH LAWS AND REGULATIONS TO PREVENT INJURY TO PERSONS AND PROPERTY, INCLUDING CRITICAL INFRASTRUCTURE (E.G. PROTECTING EXISTING UTILITIES DURING EXCAVATION), SURFACE STRUCTURES, AND UNDERGROUND FACILITIES DURING EXCAVATION AND BACKFILLING.
4. EXCAVATIONS LESS THAN FIVE FEET DEEP IN STABLE ROCK OR IN SOIL CONDITIONS WHERE THERE IS NO POTENTIAL FOR A CAVE-IN MAY BE MADE WITH VERTICAL SIDES. UNDER ALL OTHER CONDITIONS, EXCAVATIONS SHALL BE SLOPED AND BENCHED, SHIELDED, OR SHORED AND BRACED.
5. EXCAVATIONS GREATER THAN FIVE FEET DEEP IN STABLE ROCK MAY BE MADE WITH VERTICAL SIDES. UNDER ALL OTHER CONDITIONS, EXCAVATIONS SHALL BE SLOPED AND BENCHED, SHIELDED, OR SHORED AND BRACED. EXCAVATIONS THAT ENCROACH THE EXISTING CONCRETE OR CLAY SEWER BEYOND SAFE SLOPING (2H:1V) WILL REQUIRE EXCAVATION SUPPORT SYSTEMS, DESIGNED BY A PROFESSIONAL ENGINEER, AND APPROVED BY THE ENGINEER. HOWEVER NO EXCAVATION SHALL OCCUR WITHIN FIVE FEET OF THE EDGE OF THE SEWER, AS INDICATED.
6. NOT MORE THAN 2,500 SQUARE FEET OF EXCAVATION SHALL BE OPENED BELOW THE WATER TABLE AT ONE TIME.
7. PROTECT AND BARRICADE OPEN EXCAVATIONS (AS NEEDED). NO EXCAVATIONS SHALL BE LEFT OPEN AT THE CLOSE OF EACH WORK DAY UNLESS PROPERLY PROTECTED.
8. HANDLING , TEMPORARY STORAGE, TRANSPORTATION, AND DISPOSAL OF EXCAVATION WASTE SHALL BE IN ACCORDANCE WITH LAWS AND REGULATIONS AND SPECIFICATIONS SECTION 02 60 05 (CONTAMINATED WASTE MANAGEMENT AND DISPOSAL).

XREFS:
Design_X_Existing Topo
Design_X_Title Block
Design_X_Base
Design_X_Utilities
Design_X_P-Depth Contours
Design_X_Utilities-2

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50' 0 50' 100'
1"=50'

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

No.	Date	Revisions	By	Ckd

Professional Engineer's Name: **MICHAEL J. BENOIT**
Professional Engineer's No.: 088936

State	Date Signed	Project Mgr.
NY	-	SAP

Designed by	Drawn by	Checked by
DGN	BKD	MJB

DRAFT NOT FOR CONSTRUCTION

ARCADIS

ARCADIS OF NEW YORK, INC.

NIAGARA MOHAWK POWER CORPORATION, D/B/A NATIONAL GRID • SYRACUSE, NEW YORK
GLOVERSVILLE (HILL STREET) FORMER MGP SITE
SITE REMEDIATION

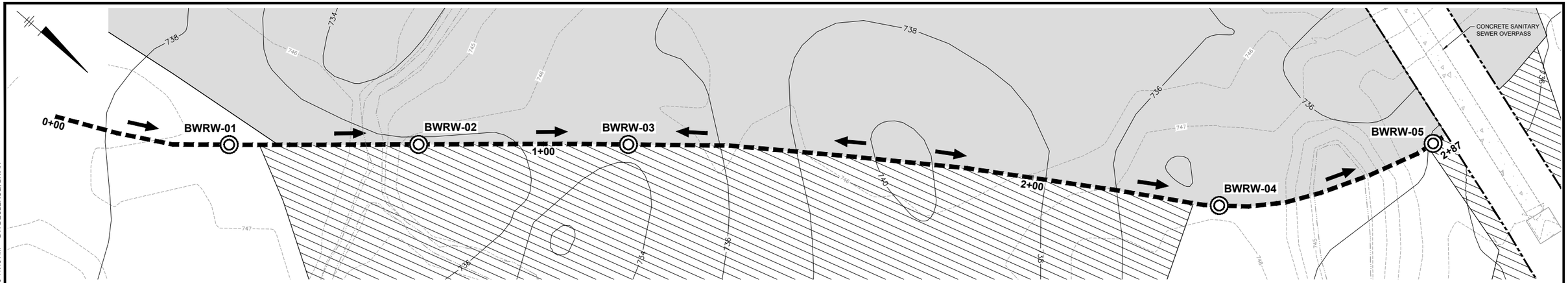
SITE REMEDIAL EXCAVATION PLAN

ARCADIS Project No.
30227508

Date
MAY 2026

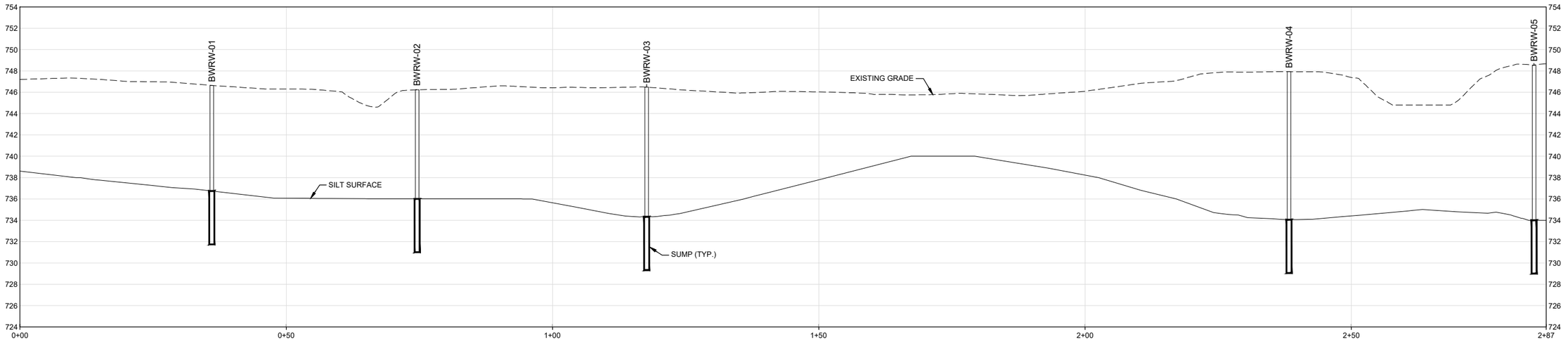
ARCADIS
ONE LINCOLN CENTER
110 W FAYETTE STREET
SYRACUSE, NY 13202
TELEPHONE: 315-446-9120

C-102



PLAN

HORIZONTAL SCALE: 1"=10'



PROFILE

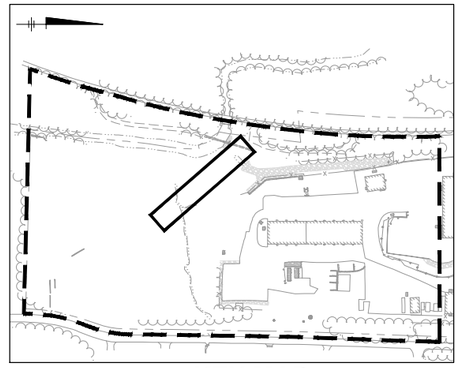
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE (2x EXAGGERATED): 1"=5'

LEGEND:

- NAPL BARRIER WALL ALIGNMENT
- HORIZONTAL LIMITS OF EXCAVATION TO TOP OF SILT
- HORIZONTAL LIMITS OF SURFACE SOIL EXCAVATION
- 742 — SILT TOPOGRAPHIC CONTOUR (2-FOOT INTERVAL)
- EXISTING UTILITY TO BE PROTECTED
- BWRW-01 — APPROXIMATE NAPL BARRIER WALL RECOVERY WELL LOCATION
- FLOW DIRECTION

BARRIER WALL EXCAVATION:

1. CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS FOR INSTALLATION, DEVELOPMENT, AND CONSTRUCTION OF THE BARRIER WALL EXCAVATION. THE ENGINEER WILL PROVIDE THE CONTRACTOR WITH THE PLAN AND REQUIREMENTS.
2. FINAL HORIZONTAL POSITION OF THE BARRIER WALL EXCAVATION SHALL BE WITHIN +/- 1.0 FOOT OF THE BARRIER WALL EXCAVATION GEOMETRY.
3. FINAL BARRIER WALL EXCAVATION BOTTOM ELEVATIONS SHALL BE WITHIN +/- 0.1 FOOT OF THE BARRIER WALL EXCAVATION GEOMETRY.
4. FINAL BARRIER WALL EXCAVATION BOTTOM SLOPES SHALL BE 0.6% (MINIMUM) AND LOW POINTS SHALL TERMINATE AT SUMPS. LOW POINTS SHALL TERMINATE AT THE TOP OF BARRIER WALL RECOVERY WELL SUMPS.
5. EXCAVATIONS SHALL NOT BE OPENED NOR LEFT UNFILLED FOR MORE THAN 100 FEET IN ADVANCE OF BARRIER WALL CONSTRUCTION.
6. PROTECT AND BARRICADE OPEN EXCAVATIONS (AS NEEDED). NO EXCAVATIONS SHALL BE LEFT OPEN AT THE CLOSE OF EACH WORK DAY UNLESS PROPERLY PROTECTED.
7. EXCAVATED SOIL SHALL BE TRANSPORTED TO THE TEMPORARY STAGING AREA FOR STABILIZATION AND OFFSITE DISPOSAL (AS NEEDED).
8. PROTECT ALL PIPES FROM LATERAL DISPLACEMENT AND POSSIBLE DAMAGE RESULTING FROM SUPERIMPOSED BACKFILL LOADS, IMPACT, OR UNBALANCED LOADING DURING BACKFILLING OPERATIONS BY BEING ADEQUATELY EMBEDDED IN SUITABLE PIPE EMBEDMENT MATERIAL.
9. MONITOR THE BACKFILLED EXCAVATIONS FOR ONE WEEK AFTER COMPLETION OF BACKFILLING. SETTLEMENT OF BACKFILL SHALL BE TOPPED OFF TO DESIGN GRADE.
10. NAPL BARRIER WALL RECOVERY WELL LOCATIONS ARE APPROXIMATE AND ARE TO BE FIELD-DETERMINED BY CONTRACTOR BASED ON SILT SURFACE TOPOGRAPHY.
11. PROVIDE AS-BUILT DRAWINGS THAT INCLUDE THE EXCAVATION LOCATION, EXCAVATION PROFILES INCLUDING TOP OF EXCAVATION ELEVATION, BOTTOM OF EXCAVATION ELEVATION, TOP OF BACKFILL, AND SUMP LOCATIONS AND ELEVATIONS.



KEY MAP

0 200' 400'
GRAPHIC SCALE

XREFS:
Design_X_Existing Topo
Design_X_Title Block
Design_X_Base
Design_X_Silt Topo

10' 0 10' 20'
1"=10'
5' 0 5' 10'
1"=5'

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

No.	Date	Revisions	By	Ckd

Professional Engineer's Name: MICHAEL J. BENOIT
Professional Engineer's No.: 088936

State	Date Signed	Project Mgr.
NY	-	SAP

Designed by	Drawn by	Checked by
DGN	BKD	MJB

DRAFT NOT FOR CONSTRUCTION

ARCADIS

ARCADIS OF NEW YORK, INC.

NIAGARA MOHAWK POWER CORPORATION, D/B/A NATIONAL GRID • SYRACUSE, NEW YORK
GLOVERSVILLE (HILL STREET) FORMER MGP SITE
SITE REMEDIATION

NAPL BARRIER WALL PLAN AND PROFILE

ARCADIS Project No.
30227508

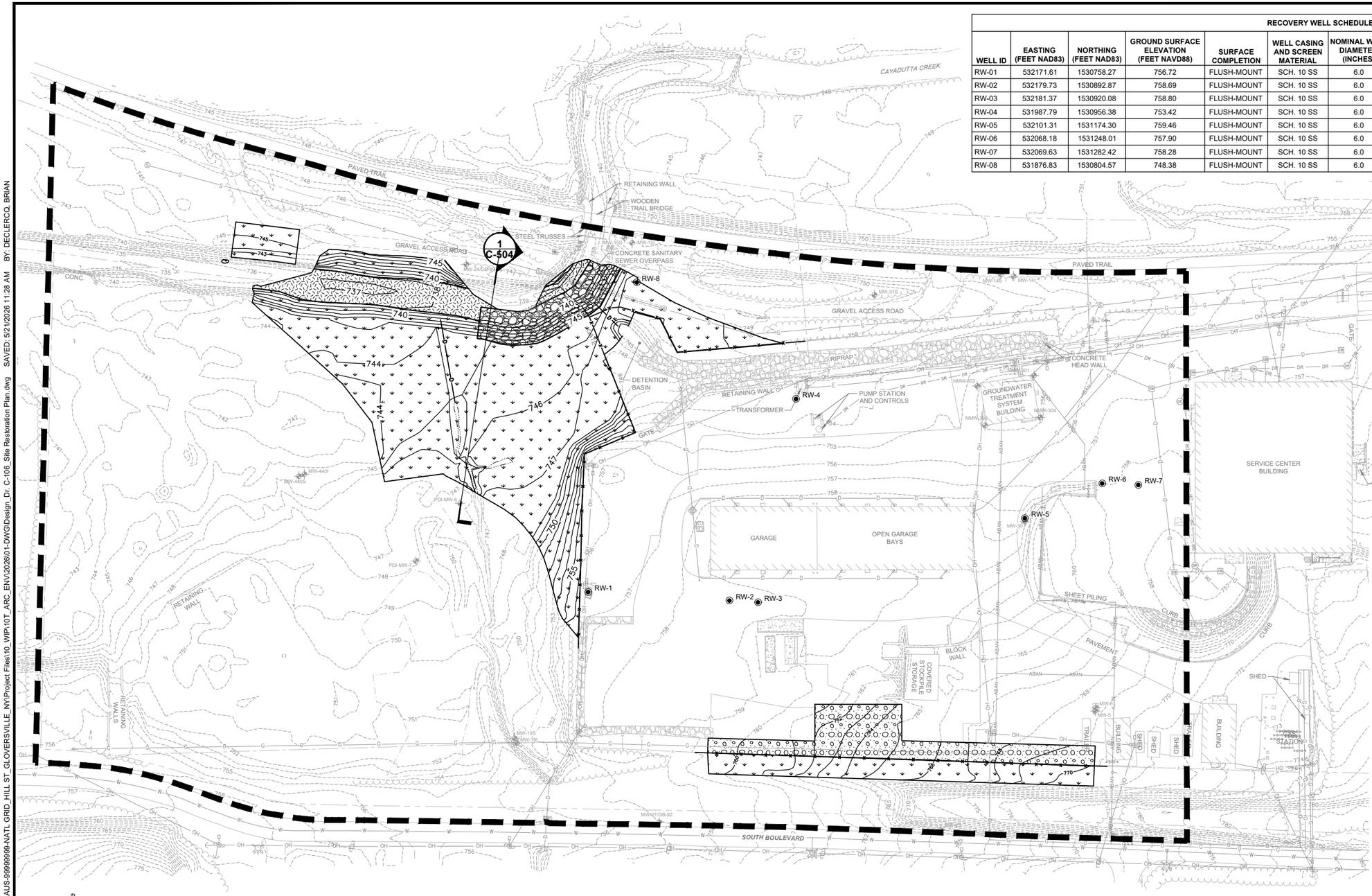
Date
MAY 2026

ARCADIS
ONE LINCOLN CENTER
110 W FAYETTE STREET
SYRACUSE, NY 13202
TELEPHONE: 315-446-9120

C-105

RECOVERY WELL SCHEDULE

WELL ID	EASTING (FEET NAD83)	NORTHING (FEET NAD83)	GROUND SURFACE ELEVATION (FEET NAVD88)	SURFACE COMPLETION	WELL CASING AND SCREEN MATERIAL	NOMINAL WELL DIAMETER (INCHES)	SCREEN SLOT SIZE (INCHES)	SCREEN LENGTH (FEET)	SCREENED INTERVAL (FEET BGS)	SUMP LENGTH (FEET)	TOTAL DEPTH OF WELL (FEET BGS)
RW-01	532171.61	1530758.27	756.72	FLUSH-MOUNT	SCH. 10 SS	6.0	0.020	10.0	-	5.00	
RW-02	532179.73	1530892.87	758.69	FLUSH-MOUNT	SCH. 10 SS	6.0	0.020	10.0	-	5.00	
RW-03	532181.37	1530920.08	758.80	FLUSH-MOUNT	SCH. 10 SS	6.0	0.020	10.0	-	5.00	
RW-04	531987.79	1530956.38	753.42	FLUSH-MOUNT	SCH. 10 SS	6.0	0.020	10.0	-	5.00	
RW-05	532101.31	1531174.30	759.46	FLUSH-MOUNT	SCH. 10 SS	6.0	0.020	10.0	-	5.00	
RW-06	532068.18	1531248.01	757.90	FLUSH-MOUNT	SCH. 10 SS	6.0	0.020	10.0	-	5.00	
RW-07	532069.63	1531282.42	758.28	FLUSH-MOUNT	SCH. 10 SS	6.0	0.020	10.0	-	5.00	
RW-08	531876.83	1530804.57	748.38	FLUSH-MOUNT	SCH. 10 SS	6.0	0.020	10.0	-	5.00	



LEGEND:

- NEW VEGETATED SURFACE
- NEW RIPRAP
- NEW CRUSHED STONE SURFACING
- NEW CREEK BED SURFACE
- 745 — FINAL GRADE TOPOGRAPHIC CONTOUR (1-FOOT INTERVAL)
- NEW CHAIN-LINK FENCE (3 / C-503)
- RW-1 NEW RECOVERY WELL (4 / C-503)

NOTES:

1. FURNISH AND INSTALL RIPRAP WHERE SHOWN OR INDICATED IN ACCORDANCE WITH SPECIFICATION SECTION 31 37 00 (RIPRAP).
2. FURNISH AND INSTALL NEW CRUSHED STONE SURFACING WHERE SHOWN OR INDICATED IN ACCORDANCE WITH SPECIFICATION SECTION 32 15 40 (CRUSHED STONE SURFACING).
3. FURNISH AND INSTALL NEW VEGETATED SURFACE WHERE SHOWN OR INDICATED. RECONDITION EXISTING VEGETATED SURFACES DAMAGED BY CONTRACTOR'S OPERATIONS, INCLUDING AREAS USED FOR TEMPORARY CONSTRUCTION FACILITIES AND EQUIPMENT AND MATERIAL STORAGE, AND AREAS DAMAGED BY THE MOVEMENT OF VEHICLES. RECONDITION EXISTING VEGETATED SURFACES WHERE MINOR REGRADING IS REQUIRED. COMPLY WITH SPECIFICATION SECTION 32 92 00 (TURF AND GRASSES).
4. EXISTING SURFACE STRUCTURES AND FACILITIES REMOVED OR DAMAGED DURING THE WORK SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AT CONTRACTOR'S EXPENSE.

NOTE TO NYSDEC: FINAL SURFACE CONDITIONS AND GRADES SHOWN ON THIS DRAWING ARE PRELIMINARY AND MAY CHANGE AS A RESULT OF THE DESIGN ACTIVITIES TO BE COMPLETED AS PART OF THE DRAFT FINAL REMEDIAL DESIGN REPORT.

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XREFS:
Design_X_Existing Topo
Design_X_Title Block
Design_X_Base
Design_X_Utilities
Design_X_Utilities-2
Design_X_Restore Surface

50' 0 50' 100'
1"=50'

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

No.	Date	Revisions	By	Ckd

Professional Engineer's Name: MICHAEL J. BENOIT
Professional Engineer's No.: 088936

State	Date Signed	Project Mgr.
NY	.	SAP
Designed by: DGN	Drawn by: BKD	Checked by: MJB

DRAFT NOT FOR CONSTRUCTION

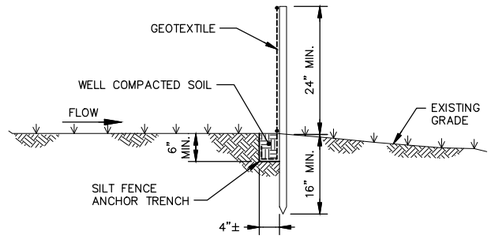
NIAGARA MOHAWK POWER CORPORATION, D/B/A NATIONAL GRID • SYRACUSE, NEW YORK
GLOVERSVILLE (HILL STREET) FORMER MGP SITE
SITE REMEDIATION

SITE RESTORATION AND FINAL GRADING PLAN

ARCADIS Project No.: 30227508
Date: MAY 2026

ARCADIS
ONE LINCOLN CENTER
110 W FAYETTE STREET
SYRACUSE, NY 13202
TELEPHONE: 315-446-9120

C-106



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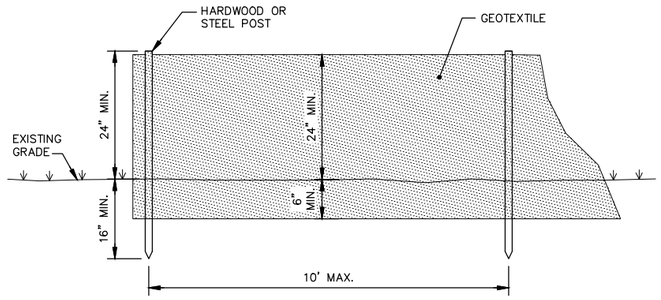

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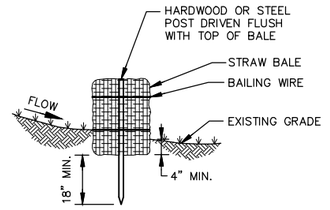

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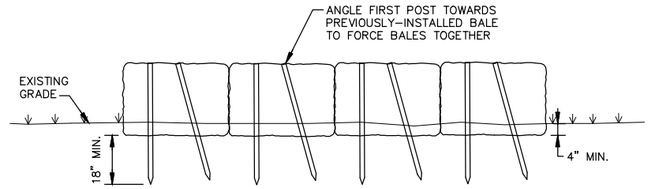

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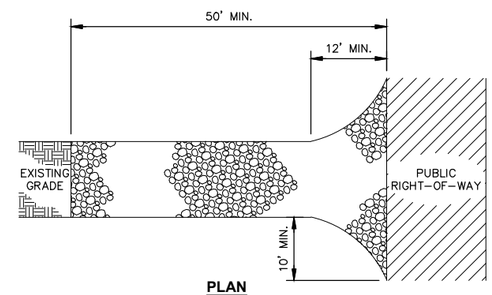

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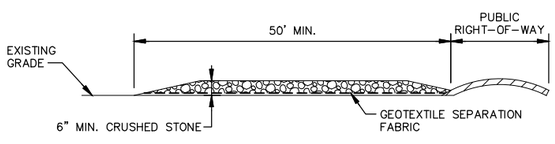

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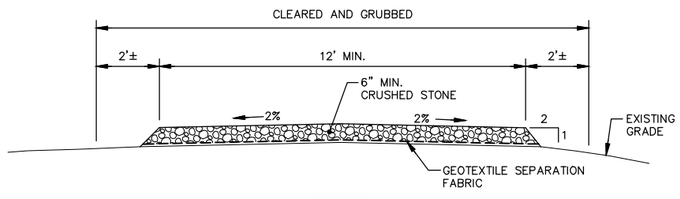

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TEMPORARY CONSTRUCTION ENTRANCE 3

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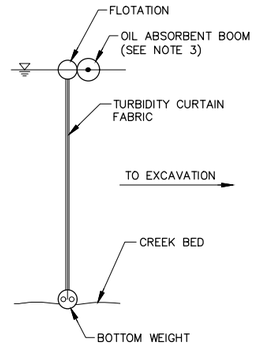

NOTES:

1. TURBIDITY CURTAINS SHALL BE FASTENED TO POSTS (E.G. FENCE POSTS, WOODEN STAKES, OR OTHER APPROVED MATERIALS) DRIVEN INTO THE CREEK BED TO MAINTAIN THE CURTAINS POSITION. CONNECTIONS TO THE POSTS, POST LOCATIONS, AND POST EMBEDMENT DEPTHS SHALL BE DETERMINED BY THE CONTRACTOR TO MAINTAIN TURBIDITY CONTROL AT ALL TIMES DURING CONSTRUCTION.
2. TURBIDITY CURTAINS SHALL BE ANCHORED TO THE CREEK BANK AT BOTH ENDS.
3. OIL ABSORBENT BOOM SHALL BE FASTENED AND/OR INTEGRAL, AS REQUIRED, TO THE FLOTATION DEVICE OF THE TURBIDITY CURTAIN.

TURBIDITY CURTAIN WITH OIL ABSORBENT BOOM 4

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Professional Engineer's Name: MICHAEL J. BENOIT		
Professional Engineer's No.: 088936		
State: NY	Date Signed: -	Project Mgr.: SAP
Designed by: DGN	Drawn by: BKD	Checked by: MJB

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ARCADIS OF NEW YORK, INC.

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GLOVERSVILLE (HILL STREET) FORMER MGP SITE
SITE REMEDIATION

TEMPORARY EROSION AND SEDIMENT CONTROL DETAILS

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Date: MAY 2026

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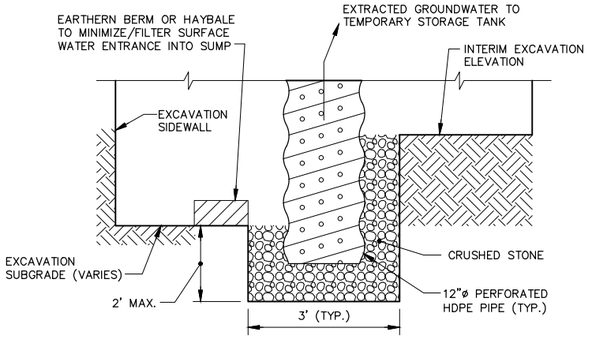
C-501



TYPICAL EXCAVATION DEWATERING SUMP (1)

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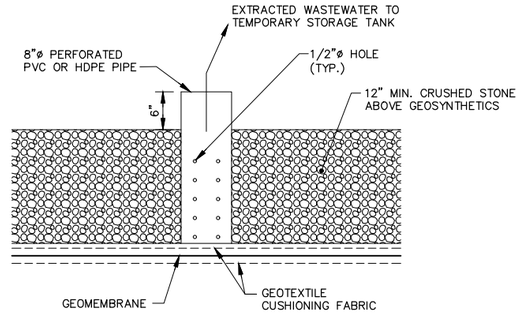

TYPICAL COLLECTION SUMP (2)

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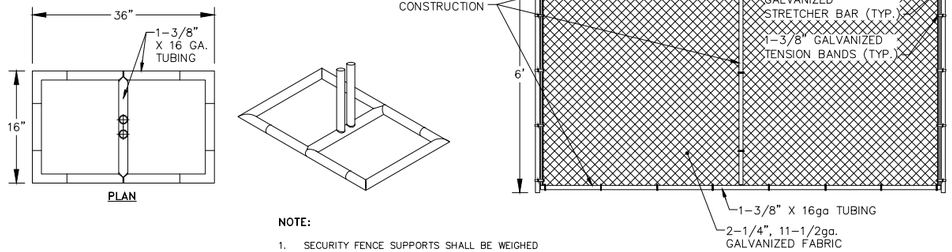
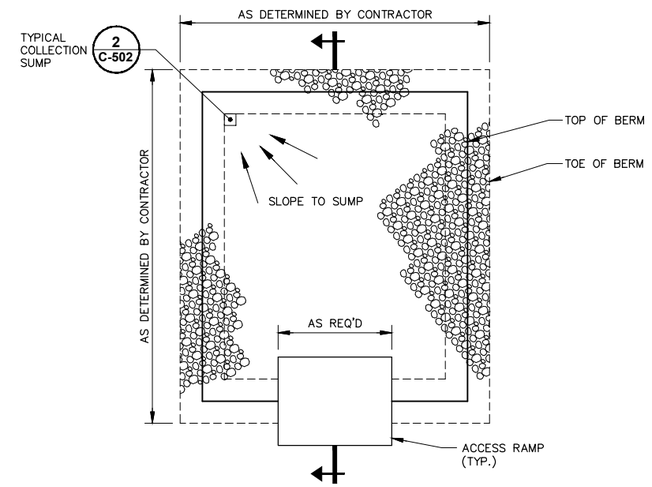


NOTE:

1. SECURITY FENCE SUPPORTS SHALL BE WEIGHED DOWN WITH SAND BAGS AS NECESSARY.

TEMPORARY SITE SECURITY FENCE (5)

NOT TO SCALE



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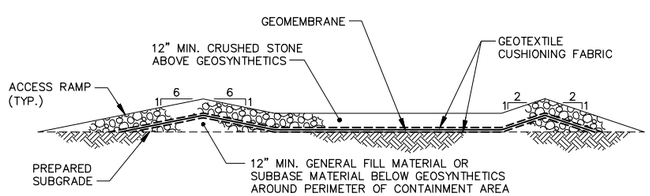

PROFILE

TYPICAL TEMPORARY CONTAINMENT AREA (3)

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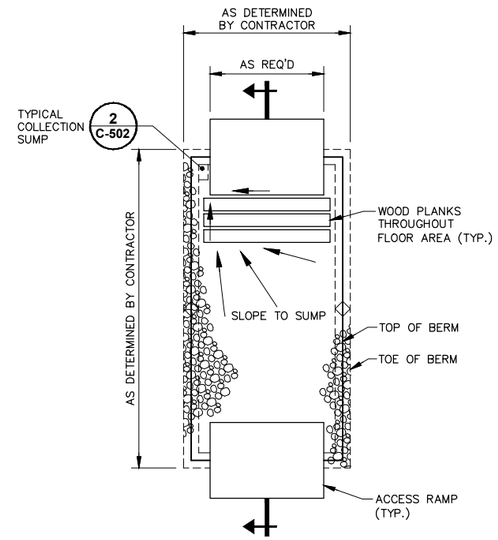

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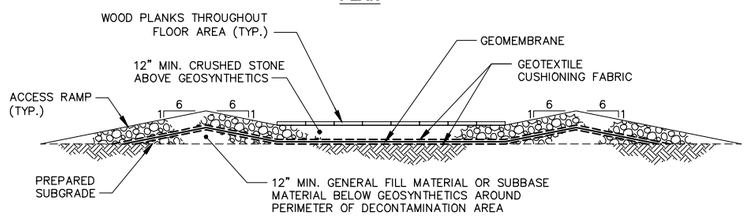

PROFILE

TYPICAL TEMPORARY DECONTAMINATION AREA (4)

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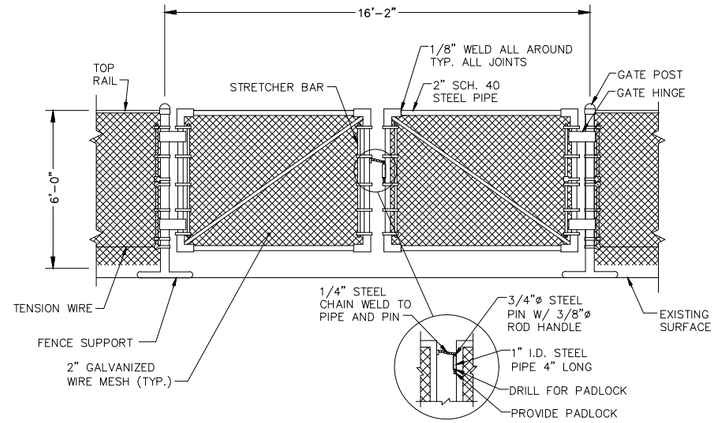

TABLE G-503-A – MINIMUM FENCE DIMENSIONS AND WEIGHTS

	OUTSIDE DIAMETER (INCHES)	WEIGHT/FOOT (POUNDS)
END, CORNER, AND PULL POSTS	2.875	5.79
LINE POSTS (HEAVY DUTY)	2.375	3.65
TOP RAILS AND BRACES	1.66	2.27
LEAVES 6 FEET WIDE OR LESS	2.875	5.79
LEAVES OVER 6 FEET UP TO 13 FEET WIDE	4.00	9.11
LEAVES OVER 13 FEET WIDE	AS SHOWN ON CONTRACT DRAWINGS	AS SHOWN ON CONTRACT DRAWINGS

NOTES:

1. INSTALL VEHICLE GATES IN ACCORDANCE WITH THE REMEDIAL DESIGN.
2. CHAIN LINK FABRIC SHALL BE ONE PIECE OF 9–GAUGE STEEL WIRE FABRIC, WIDTH AS SHOWN ON THE DETAIL, 3– BY 5–INCH CHAIN–LINK WIRE WITH A WOVEN GEOTEXTILE VISUAL BARRIER MEETING THE SPECIFICATIONS OF FENCE SCREEN 130 SERIES PRIVACY AIR OR EQUIVALENT.
3. TENSION WIRE WILL BE 7–GAUGE GALVANIZED COIL SPRING STEEL.
4. WIRE TIES OR CLIPS WILL BE A MINIMUM OF 6 GAUGE. HOG RINGS MAY BE USED TO TIE FABRIC TO TENSION WIRE.
5. STRETCHER BARS WILL BE A MINIMUM OF 1/2– BY 3/4–INCH STEEL AND ATTACHED TO POSTS WITH HEAVY STEEL BANDS.
6. UNLESS STATED OTHERWISE, DIMENSIONS AND WEIGHTS SHALL BE AS LISTED IN TABLE G–503–A.

TYPICAL SECURITY FENCE AND VEHICLE ACCESS GATE DETAIL (6)

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Professional Engineer's Name: MICHAEL J. BENOIT
Professional Engineer's No.: 088936

State	Date Signed	Project Mgr.
NY	.	SAP
Designed by	Drawn by	Checked by
DGN	BKD	MJB

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NIAGARA MOHAWK POWER CORPORATION, D/B/A NATIONAL GRID • SYRACUSE, NEW YORK
GLOVERSVILLE (HILL STREET) FORMER MGP SITE
SITE REMEDIATION

TEMPORARY CONSTRUCTION DETAILS

ARCADIS Project No.
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MAY 2026

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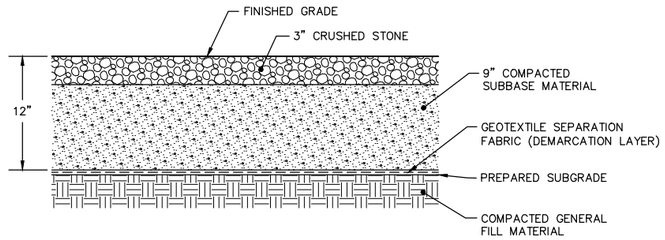
C-502



CRUSHED STONE SURFACE COVER (1)

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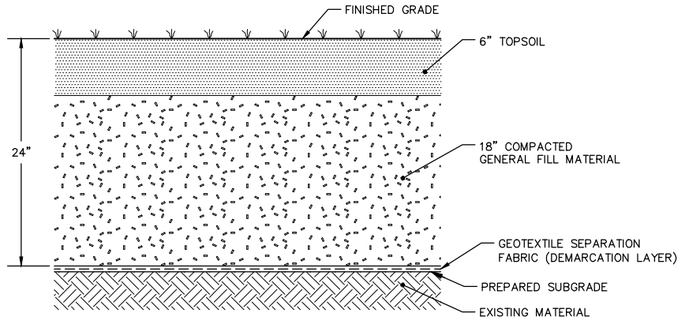

VEGETATED SURFACE COVER (2)

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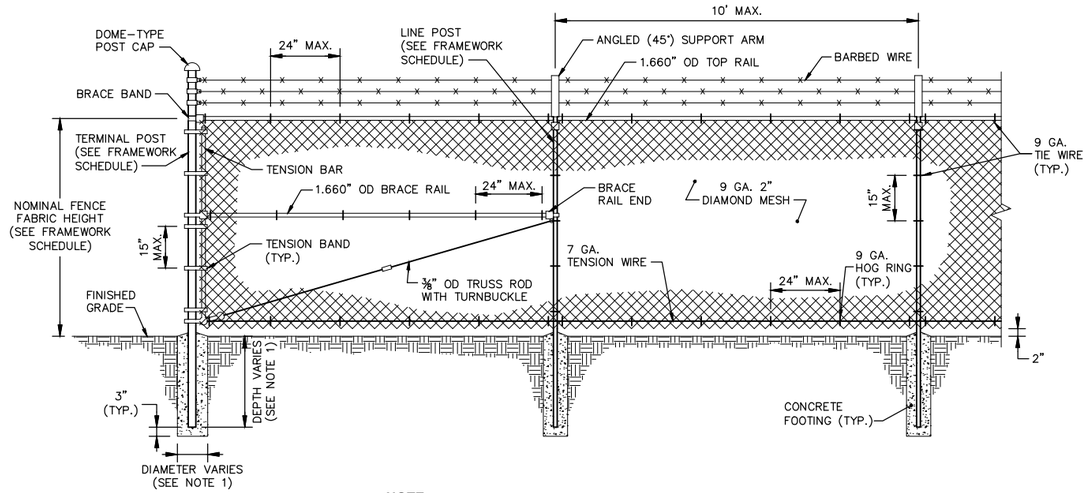

FRAMEWORK SCHEDULE		
NOMINAL FENCE FABRIC HEIGHT (FEET)	MIN. TERMINAL POST OD (INCHES)	MIN. LINE POST OD (INCHES)
6.0	2.375	1.900
8.0	2.875	2.375
10.0	3.500	2.875

NOTE:

1. PROVIDE POST HOLES EXCAVATED OR DRILLED APPROXIMATELY THREE INCHES DEEPER THAN BOTTOM OF POST, WITH BOTTOM OF POSTS SET NOT LESS THAN TWO FEET BELOW FINISHED GRADE PLUS AN ADDITIONAL THREE INCHES FOR EACH ONE-FOOT INCREASE IN FENCE HEIGHT OVER FOUR FEET. HOLE DIAMETER SHALL BE NOT LESS THAN FOUR TIMES THE LARGEST CROSS-SECTION OF POST TO BE INSTALLED.

CHAIN-LINK FENCE (3)

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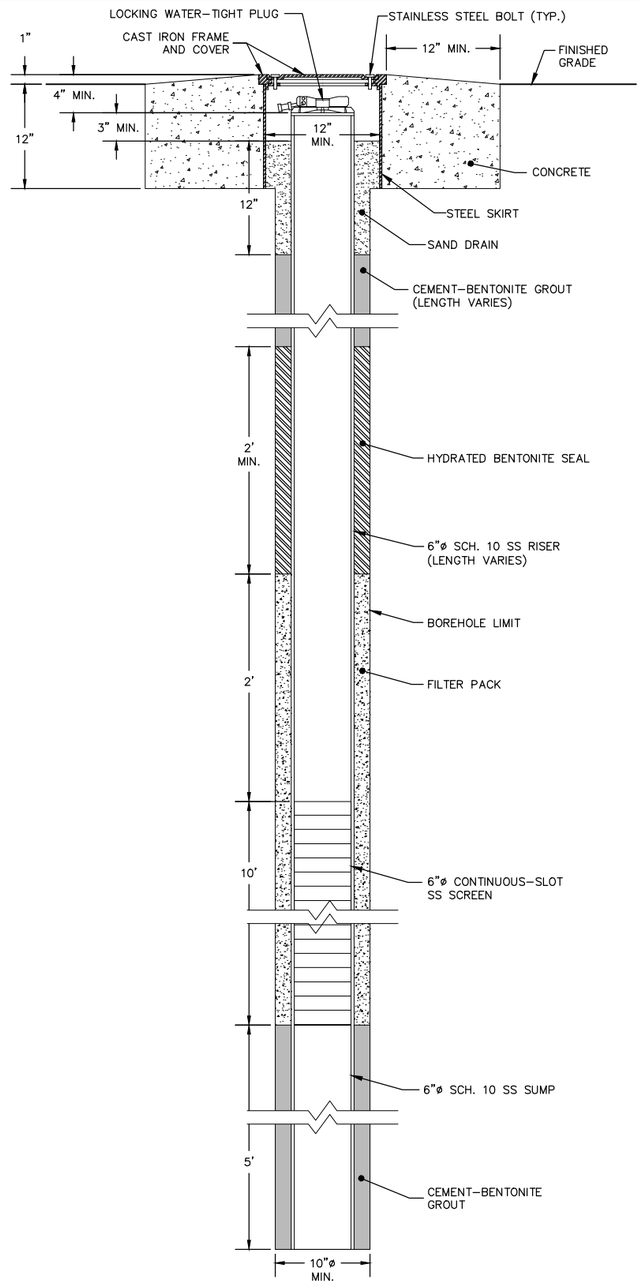

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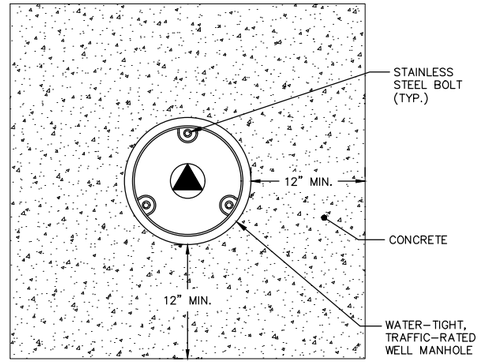

PLAN

TYPICAL RECOVERY WELL (4)

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Professional Engineer's Name: MICHAEL J. BENOIT		
Professional Engineer's No.: 088936		
State: NY	Date Signed: -	Project Mgr.: SAP
Designed by: DGN	Drawn by: BKD	Checked by: MJB

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GLOVERSVILLE (HILL STREET) FORMER MGP SITE
SITE REMEDIATION

SITE RESTORATION DETAILS

ARCADIS Project No.
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Date
MAY 2026

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110 W FAYETTE STREET
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TELEPHONE: 315-446-9120

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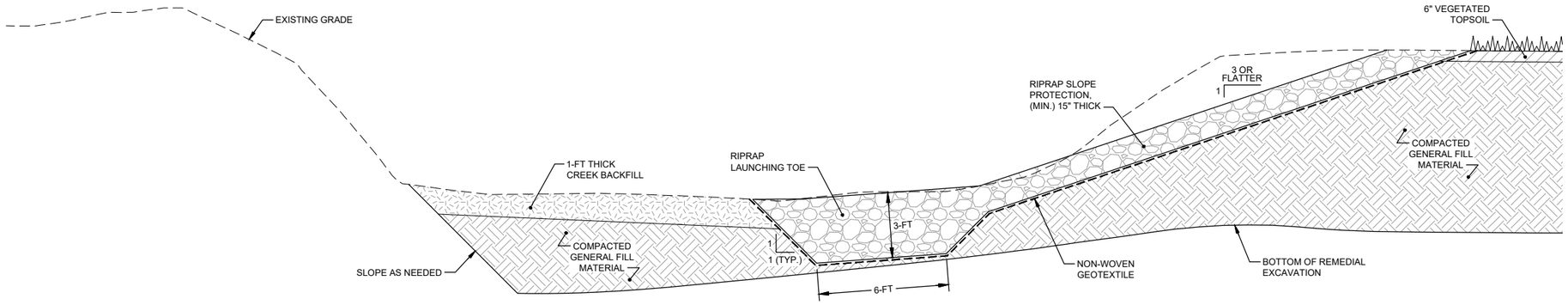

NOTE:

1. REFER TO SPECIFICATION SECTION 32 92 00 (TURF AND GRASSES) FOR SEED MIXTURE.

TYPICAL CREEK RESTORATION DETAIL 1

0 3' 6'
GRAPHIC SCALE

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Professional Engineer's No.: 088936

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Designed by	Drawn by	Checked by
DGN	BKD	MJB

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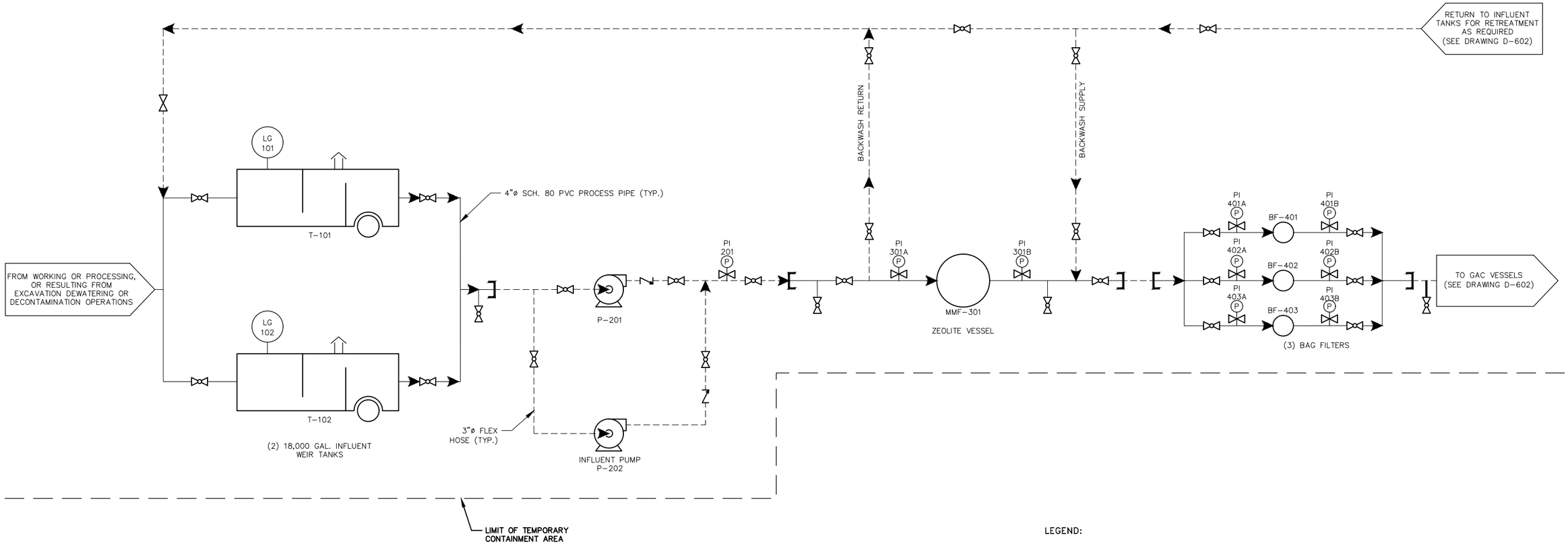

LEGEND:

- PROCESS PIPING
- FLEXIBLE HOSE
- SAMPLE TAP
- PRESSURE GAUGE
- FLANGE CONNECTION
- FLOW METER
- BALL VALVE
- GATE VALVE
- CHECK VALVE
- CENTRIFUGAL PUMP
- CAM LOCK CONNECTION

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SITE REMEDIATION

TEMPORARY WASTEWATER TREATMENT SYSTEM PIPING AND INSTRUMENTATION DIAGRAM

ARCADIS Project No.
30227508

Date
MAY 2026

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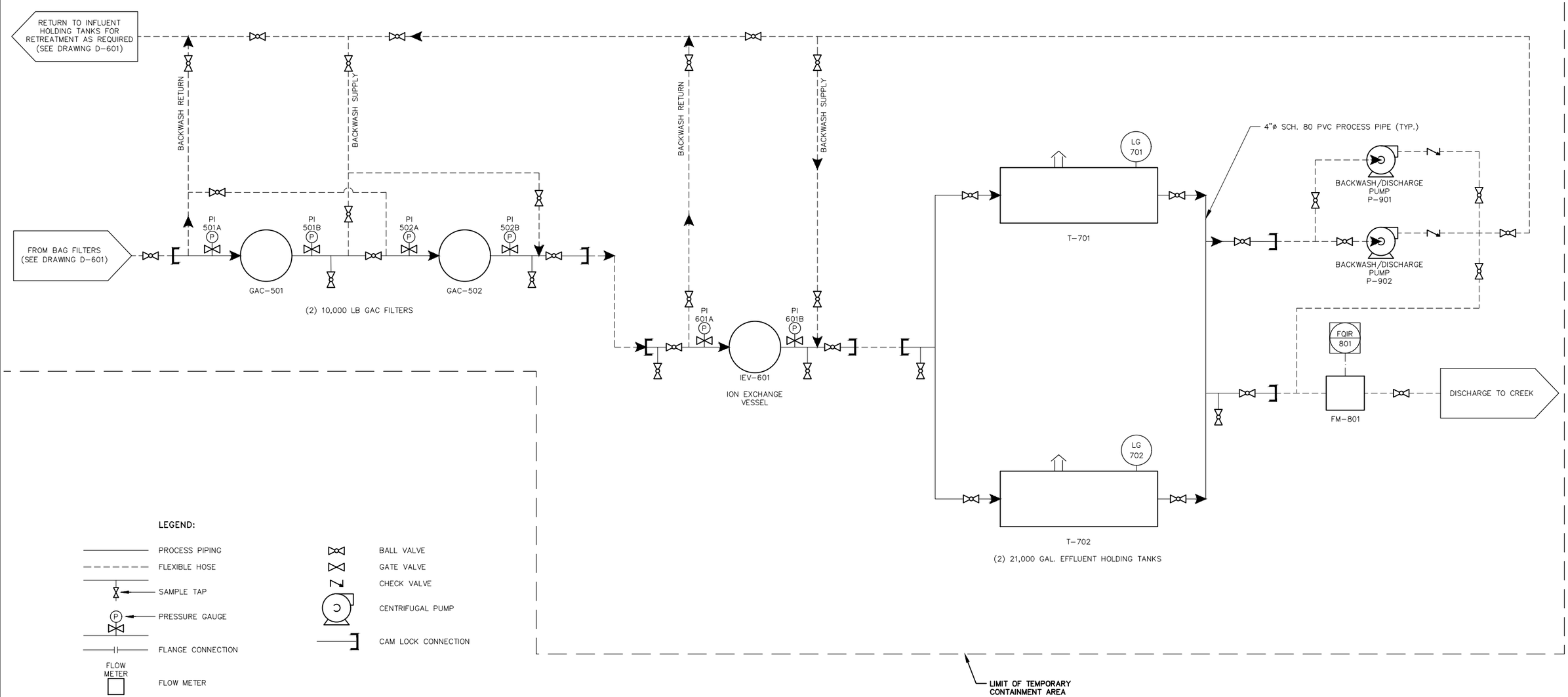

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Professional Engineer's No.: 088936

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NY	.	SAP
Designed by	Drawn by	Checked by
DGN	BKD	MJB

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MAY 2026

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D-602

Appendix B

List of Specifications

TABLE OF CONTENTS

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Appendix C

Community and Environmental Response Plan (FORTHCOMING)

Appendix D

Community Air Monitoring Plan (FORTHCOMING)

Appendix E

Storm Water Pollution Prevention Plan (FORTHCOMING)

Appendix F

Waste Management Plan (FORTHCOMING)

Appendix G

Confirmation Sampling Plan (FORTHCOMING)

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