

DRAFT

APPENDIX H

**COMMUNITY IMPACTS MITIGATION PLAN
FOR IN-SITU SOLIDIFICATION**

**HEMPSTEAD INTERSECTION STREET
FORMER MANUFACTURED GAS PLANT SITE
VILLAGES OF HEMPSTEAD AND GARDEN CITY
NASSAU COUNTY, NEW YORK**

Prepared for:

**National Grid
175 East Old Country Rd.
Hicksville, NY 11801**

Prepared by:

**URS Corporation
77 Goodell Street
Buffalo, New York 14203**

August 2011

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LIST OF ACRONYMS AND ABBREVIATIONS

ASTM	American Society for Testing and Materials
BOD	Basis of Design
BTEX	benzene, toluene, ethylbenzene, and xylenes
CAMP	Community Air Monitoring Program
CM	Construction Manager
CPP	Citizen Participation Plan
dba	decibel(s)
DSM	deep soil mixing
HASP	Health and Safety Plan
HCN	hydrogen cyanide
LIRR	Long Island Railroad
MGP	manufactured gas plant
NAPL	non-aqueous phase liquid
NCDH	Nassau County Department of Health
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PAHs	polycyclic aromatic hydrocarbons
PPV	peak particle velocity
ROW	right-of-way
VMS	vapor management system
Voc	volatile organic compound(s)

1.0 INTRODUCTION

1.1 Site Location and Description

The Hempstead Intersection Street Former Manufactured Gas Plant (MGP) site (Site) is located in the Villages of Hempstead and Garden City, Nassau County, New York (Figure 1). The property is bordered to the north by Second Street, east by a Long Island Railroad (LIRR) inactive railroad right-of-way (ROW), south by Intersection Street, and west by a park owned by the Village of Garden City. The park contains a public parking lot, two public water supply wells, and a recharge basin for the wells. Residences and commercial businesses surround the Site, including a Professional Office Building to the southwest, an Active Oil Storage Terminal to the southeast, and an Inactive Petroleum Storage Facility to the southeast. An active National Grid natural gas regulator station is located within the northwestern portion of the Site.

The Site and surrounding area are generally flat with the ground surface gently sloping to the west, northwest, and southwest. The Site is predominantly covered with crushed stone and is secured with a perimeter fence. Limited grass, shrubs and trees serve as a buffer across the northern fence line. Other than gas piping in the regulator station and Site security fences, there are no permanent aboveground structures on the Site.

1.2 Project Description

Remedial actions will be conducted at the Site and adjacent properties to address MGP related contaminants. The remedial action will include the excavation of shallow contaminated soils and former MGP structures that will be taken for off-Site for treatment and disposal. For areas with shallow soil contamination, the excavations will be performed within a temporary enclosure that will incorporate a vapor management system (VMS).

- Areas that contain MGP contaminants that are too deep to be remediated by excavation and off-site treatment/disposal will be solidified in place. The solidification will be performed using deep soil mixing (DSM) which will be performed outside of the temporary enclosure due to the height of the solidification equipment. The solidification limits are shown on Figure 1.

The general construction activities are summarized below and shown on Figures 2 and 3:

- Contractor mobilization, installation of field office trailers, temporary fence, worker parking area, and equipment laydown area.
- Installation and operation of a batch plant for the solidification operations.
- Phase I Remedial Construction – Excavation and solidification treatment of areas in the western portion of the site and at isolated areas in the eastern portion of the site. Installation of a temporary parking lot for the adjacent Professional Office Building (230 Hilton Avenue).
- Phase II Remedial Construction – Construction of a soil-crete retaining wall in the Plaza 230 parking lot and adjacent areas, excavation and stockpiling of clean soil within the soil-crete wall, solidification of MGP contaminated soils beneath the parking lot, and backfilling and restoration of the area. Excavation and off-Site treatment/disposal of MGP contaminated soils and former MGP structures from the Site. Deep soil mixing of MGP contaminated soils beneath the Site. Placement of clean fill and restoration of the Site

1.3 Project Team

The primary organizations involved with the project are National Grid (Owner), the New York State Department of Environmental Conservation (NYSDEC), the New York State Department of Health (NYSDOH), the Nassau County Department of Health (NCDH), the Incorporated Village of Garden City, the Incorporated Village of Hempstead, the Design Engineer (URS Corporation), the Construction Manager (CM) (AECOM), the Air Monitoring Consultant (AECOM), and the Contractor (Entact). The authority and responsibilities of these organizations are summarized below.

- National Grid is responsible for the design, construction, and maintenance of the project and has the authority to select the organizations involved with the project.
- NYSDEC is the lead regulatory agency and will review and approve the Basis of Design (BOD) Report for the remedial action and a Construction Operations Plan. The NYSDEC will also provide oversight during construction activities and has the authority to review project documentation after construction.
- The NYSDOH and NCDH will review the project's plans and construction monitoring data to determine compliance with regulations and policies for the protection of public health.
- The Villages of Hempstead and Garden City may review the project design and planning documents to verify compliance with local codes, rules, and regulations.

- The Design Engineer has been hired by National Grid and will be the Engineer of Record who is responsible for ensuring that the remedial action is implemented as designed.
- The CM has been hired by National Grid and will assist as a liaison between National Grid and the regulatory agencies will review and approve Contractor proposals and submittals, will oversee construction progress and quality control activities, and will manage construction meetings.
- The Air Monitoring Consultant has been hired by National Grid to install, operate, and report the results of a Community Air Monitoring Program (CAMP) that will be implemented during remedial construction activities.
- The Contractor has been hired by National Grid to implement the remedial action in accordance with the design criteria, plans, and specifications.

2.0 PUBLIC OUTREACH AND COMMUNICATIONS

2.1 Citizen Participation Plan

A Citizen Participation Plan (CPP) (KeySpan, 2007) has been established for the Site remedial action to inform and involve community residents, public and private leaders, and other stakeholders about remedial actions at the Site. The CPP outlines a variety of communication methods that are based on NYSDEC regulations and guidance to provide constructive communication among project stakeholders and other interested parties. Project management contacts are listed in Table H1. Affected and/or interested parties are listed in Table H2.

Goals of the CPP include:

- Communicating goals, major milestones, actions, and outcomes of the remedial action.
- Informing citizens and others of on-going project activities, status, and progress.
- Providing stakeholders a forum for input and comment.
- Facilitating a public understanding of Site contaminants, their potential exposure pathways to human health and the environment, and appropriate plans to mitigate any potential exposure pathways.

The following actions are taken to achieve the CPP goals:

- Consistently communicate goals, accomplishments, and the status of the remedial action to community leaders, public officials, and the community.
- Establish, maintain, update, and utilize contact lists.
- Educate the community about the nature and magnitude of potential Site risks including instructions for mitigating risk (if appropriate) and assurances that the environment and worker/public health and safety are protected.
- Provide interested parties the opportunity to review and comment on technical reports generated through the remedial program.
- Provide interested parties the opportunity to present opinions and ideas during the remedial program.
- Provide responses for public review and comment.
- Provide the news media with interviews or press releases to ensure accurate coverage of the remedial action.

- Provide a designated project spokesperson as a point of contact through which community inquiries can be addressed.
- Periodically review the effectiveness of the CPP activities and make adjustments the in the methods or activities, if necessary.

The following repositories have been established to make project-related documents available for community reference and review.

Garden City Public Library
60 Seventh Street
Garden City, NY 11530
(516) 742-8405

Hempstead Public Library
115 Nichols Court
Hempstead, NY 11550
(516) 481-6990

NYSDEC
Region 1 Headquarters
Building 40
SUNY – Stony Brook
Stony Brook, NY 11790-2356
(631) 444-0241

2.2 Public Meetings

Public meetings are held at critical milestones of the remedial program to inform the public and discuss comments on the proposed remedial plans and results. NYSDEC mailings are used to notify the public about the scheduled meetings. In addition, legal notices of the meetings are published in the local newspapers to solicit comments and questions from interested parties. During the meetings, the NYSDEC, NYSDOH, NCDH, and National Grid summarize project activities and results and answer questions about the project. Public questions, comments, and concerns voiced during the public meetings and comment period are collected and addressed by the NYSDEC. Responses are published in a Remedial Action Program Responsiveness Summary.

2.3 Information Newsletters

Information newsletters are prepared and distributed to announce major project milestones and accomplishments of the remedial action.

2.4 Telephone Hotline

National Grid maintains a telephone hotline (**516-545-6161**) that can be used by local residents, project stakeholders and other interested parties to provide questions or comments. The hotline also provides updates in the Site remedial action.

2.5 Project Website

National Grid maintains a website (**www.hempsteadintersectionstreetmgpsite.com**) that provides descriptions of the Site and remedial activities, project updates, and key project documents.

3.0 CONSTRUCTION PHASES AND DURATION

Construction phases, approximate durations, and approximate start/finish dates for the remedial action are identified below.

Activity	Approximate Duration (Weeks)	Approximate Start	Approximate Finish
Construction Bidding	6	April 2011	June 2011
Review Bids and Award Construction Contract	8	June 2011	July 2011
Preparation & Approval of Construction Operations Plan and Submittals	10	August 2011	September 2011
Contractor Mobilization	4	October 2011	November 2011
Phase I Remedial Construction (VGC Park, west side MGP Site, temp. POB parking lot, and LIRR ROW)	22	November 2011	March 2012
Phase II Remedial Construction (remainder MGP Site, soil-crete wall and POB parking lot, and Active Oil Storage Terminal)	91	April 2012	November 2013
Contractor Demobilization	4	November 2013	December 2013
Construction Completion and Final Engineering Report	8	March 2014	June 2014
Oxygenation System Construction	40	May 2014	March 2015

4.0 MANAGEMENT OF CONSTRUCTION OPERATIONS

4.1 Working Hours

Intrusive work activities will be performed during normal National Grid working hours (Monday- Friday 8:00 a.m. – 5:00 p.m.) or as specified or agreed with local, county, and/or State agencies. Work performed on private property will be in accordance with hours established by National Grid with the private property owner(s). The Contractor will be required to notify National Grid and/or the CM, at least one week in advance, if a change from the normal working hours is required.

4.2 Security

The Contractor will control Site access during normal working hours. All visitors, workers and subcontractors will be required to sign a daily log maintained by the Contractor. The log will include date, name of visitor, company, address, and time on and off-Site. The Site will be secured at days end and gates will be locked during non-working hours. Keys to the Site will be provided to National Grid and the CM. The presence of unauthorized personnel will be immediately communicated to National Grid and the CM and appropriate actions will be taken as directed.

The Contractor will develop a Site Security Program that will establish the means and methods for managing the overall security of the Site after hours. The Contractor may use a subcontracted security company to provide manned Site security during non-working or inactive periods.

The Contractor will provide an area designated for security operations. This area may be part of the Contractor's offices, or a separate enclosure and will contain, as a minimum, a designated phone line and two way radios if more than one guard or attendant is utilized. The Contractor may install additional security fencing for localized security measures with approval by National Grid and/or the CM.

The following security controls will be implemented during both working and non-working hours:

- One independent telephone line and telephone will be provided.
- Control of all persons, equipment, and vehicles entering and leaving the Site will be provided by the Contractor in coordination with National Grid's requirements.
- The Contractor will require each person to display proper photo identification.
- The Contractor will maintain a list of persons authorized for Site entry.
- The Contractor will require all personnel and visitors having access to the Site to sign in and sign out, and will keep a record of all Site access. A log of all visitors will be maintained in coordination with National Grid's existing security requirements.
- Site visitors will not be permitted to enter active work areas unless authorized by National Grid and/or the CM.
- Vehicular access will be restricted to authorized vehicles only. National Grid and/or the CM will reserve the right to search all Contractor vehicles.
- Personal vehicles will not be authorized to enter the active work zones.
- The perimeter of the Site will be secured and locked and maintained during hours of non-production. Perimeter security checks will be performed hourly and conditions will be logged.
- Any perimeter fence that will be removed or modified to allow for construction activities to occur will be temporarily replaced with fence panels and all connections will be bolted together. Anchors may also be utilized along with privacy screening fabric.

In the event of forced entry, trespass and/or vandalism to the Site, security personnel will notify the Contractor and engage the local police and law enforcement. Signs of forced entry (successful or otherwise), trespass and/or vandalism will be investigated to fully understand the circumstance by which the event happened. Law enforcement will be engaged as needed to ensure that the proper attention and notifications are provided.

At no time will the security personnel have the capacity to use firearms, restraint tools (electrical shock devices, nets, etc.), or any weaponry associated with criminal intervention. Damage to property resulting from forced entry will be repaired as soon as possible by the Contractor.

4.3 Stabilized Construction Entrance

Existing paved construction entrance/exits are located off of Second Street and Intersection Street. Construction vehicles will enter the Site via Intersection Street and will exit

the Site via Second Street. The construction exit will be covered with coarse aggregate to clean truck tires prior to exiting the Site. The construction exit will be inspected and redressed as needed while in use. Trucks will be inspected prior to exiting the Site to ensure contamination is not migrating onto off-site roadways via truck tires. A vehicle decontamination pad will be constructed at the exit to decontaminate trucks and equipment as needed. Truck routes on and off Site will be monitored for excessive dirt or dust. Proper cleaning of trucks exiting the Site will aid in minimizing dusty conditions on roadways. A water truck will be used on Site to wet down on and off-Site travel routes.

4.4 Dust and Odor Control

Dust and odor control measures will be implemented to minimize the potential for dust generation and odors during soil excavation and handling, material handling operations at the grout batch plant, jet grouting, DSM, and the placement of fill. A temporary enclosure and VMS will serve as the primary odor and dust control measure that is employed during the excavation of contaminated soil and removal of former MGP structures from the Site.

Other dust and odor controls may also be implemented as directed by National Grid and/or NYSDEC.

4.4.1 Dust

The Site and heavily traveled truck routes at the site will be wet down with a water truck to minimize dust emissions. Truck routes on Site will be continuously monitored for excessive dirt or dust. Proper cleaning of trucks exiting the Site will aid in minimizing/eliminating dusty conditions. Stabilized construction entrances/exits will be constructed at exit points to clean tires of trucks exiting the Site. The entrances/exits will be maintained and redressed while in use.

Truck routes on and off Site will be inspected during high truck traffic periods for excessive dirt or dust. Trucks exiting the Site will pass through an inspection area and/or be inspected to ensure tires and undercarriages are clean and that tarps are secured. Excessive mud and loose dirt observed on the trucks will be manually removed with brooms and brushes as necessary.

Perimeter and work zone air monitoring will be performed in accordance with a CAMP and construction worker Health and Safety Plan (HASP) to evaluate the effectiveness of dust control measures. In general, real time air monitoring equipment will be used to monitor dust and volatile organic compound (VOC) levels. If visible dust is generated or work zone and/or perimeter air monitoring results show exceedences, corrective action measures will be implemented. Corrective action measures may include increasing water coverage, ceasing select activities during high wind, reducing speed of equipment that may reduce dust generation, and utilizing different sizes or types of equipment that may cause less dust generation.

4.4.2 Odor

Odor will be monitored and controlled during significant intrusive activities such as the excavation and handling of MGP contaminated soils, and deep soil mixing. Odor will be controlled by sequencing the operations in a manner that will result in manageable areas. Odor controls will also include the use of foam and foaming devices or tarps to cover open excavations or stockpiles. The odor reducing foam will be applied to solidification areas if MGP odors are detected above alert levels that are established in the CAMP. Contingency monitoring and actions will be implemented in the event an odor complaint is received from the neighboring community.

4.5 Transportation

A traffic assessment (Appendix H) was performed to identify the most suitable routes for trucks to travel between the site and the identified treatment/disposal facilities or clean fill source suppliers. The assessment is included in the BOD report and identifies two preferred transportation routes. One route goes through the Village of Hempstead and the other goes through the Village of Garden City.

- **Truck Route #1** (through the Village of Hempstead to the Hempstead Turnpike) – trucks originating at the Site will travel south to North Franklin Street to westbound Fulton Street. The route continues west on Fulton Street until it becomes Hempstead Turnpike (NYS Route 24) and continues along Jamaica Avenue. At the intersection of Francis Lewis Boulevard and Jamaica Avenue, the route turns north to reach Hillside Avenue (NYS Route 25) where it continues east a short distance to the Clearview Expressway entrance. The northbound Clearview Expressway leads to the westbound Long Island Expressway (I-495) and then the Brooklyn-Queens

Expressway to the Verrazano Narrows Bridge. The return route from the Verrazano Narrows Bridge to the Site would be the reverse of the outgoing route described above, except that approaching trucks traveling northbound on North Franklin Street would divert to Atlantic Street and thereafter to Seeley Avenue to reach the Intersection Street Site entrance. This would avoid left turn movements at an unsignalized intersection (at North Franklin and Intersection streets).

- **Truck Route #2** (through the Village of Garden City to the Jericho Turnpike) – trucks originating at the Site travel north on Franklin Avenue to westbound Old Country Road and then to northbound Herricks Road to westbound Jericho Turnpike (NYS Route 25), which becomes Braddock Avenue in Queens. The route continues west to Hillside Avenue (also NYS Route 25) to the northbound Clearview Expressway (I-295), which leads to the westbound Long Island Expressway (I-495) and the Brooklyn-Queens Expressway that terminates at the Verrazano Narrows Bridge. The return route from the Verrazano Narrows Bridge to the Site would be the reverse of the outgoing route described above.

Alternating routes will be used during the remedial action to balance the truck traffic through the communities.

4.6 Air Monitoring

Community air monitoring will be performed to measure, document, and respond to potential airborne contaminants during significant ground intrusive activities associated with the remedial action. The program will include monitoring of airborne contaminants at the Site perimeter and will compliment work zone monitoring that will be conducted in accordance with the Contractor's HASP, which will be implemented to protect Site workers and visitors. The CAMP is presented in Appendix G of this report and builds upon guidelines established by the NYSDOH in the NYSDEC *DER-10 Draft Technical Guidance for Site Investigation and Remediation* (DER-10) (NYSDEC, 2009). The CAMP includes monitoring procedures, alert limits, action limits, and contingency measures if action limits are approached. An alert limit is a contaminant concentration or odor intensity that will serve as a screening mechanism to trigger contingent measures, if necessary, to assist in minimizing offsite transport of contaminants and odors during remedial activities. An action limit is a contaminant concentration or odor intensity that triggers work stoppage.

During times of ground intrusive activities, fence line perimeter air monitoring will be conducted using a combination of real-time air monitoring at fixed (24 hours a day/7 days a week) and portable stations. Contaminants that will be monitored include VOCs, respirable

particulate, and hydrogen cyanide (HCN) if cyanide materials are encountered during excavation or if work area monitoring detects a confirmed measurement of cyanide. Relative odor intensity will also be monitored using an American Society for Testing Materials (ASTM) method. A contingency plan included in the CAMP defines the alert levels, action levels, and specific response activities to be implemented during working hours if an exceedance of an alert limit or action limit occurs. The response actions are intended to prevent or significantly reduce the migration of airborne contaminants from the site. The CAMP also specifies data management and analysis procedures.

The objectives of the CAMP are as follows:

- Provide an early warning system to alert National Grid that concentrations of VOCs or respirable particulate in ambient air are approaching action levels due to Site activities.
- Provide details for a Site contingency plan that is designed to reduce the off-Site migration of contaminants/odors if established action limits are approached or exceeded.
- Determine whether construction controls are effective in reducing ambient air concentrations to below action limits and make appropriate and necessary adjustments.
- Develop a permanent record that includes a database of perimeter air monitoring results and meteorological conditions, equipment maintenance, calibration records, and other pertinent information.

4.7 Noise and Vibration

The Contactor will be required to implement mitigation measures to reduce noise and vibrations generated during the remedial action in accordance with local codes and ordinances and as directed by National Grid and/or the NYSDEC. Potential mitigation measures that could be implemented will be identified in the Construction Operations Plan. At a minimum, these preventive and mitigation measures will include a combination of the following:

- Properly functioning equipment.
- Minimize idling of trucks.
- Modified general construction practices.
- Modifications to construction equipment.

- Acoustical or sound attenuating panels.
- Potential use of high frequency vibratory hammers for any pile driving, etc.

4.7.1 Noise Standards

The Village Hempstead Codes relating to noise are addressed in the Village of Hempstead General Code E, Chapter 95: Peace and Good Order Article VI “Noise Disturbance.” The Code seeks to prevent excessive, unnecessary, unreasonable or unusually loud noise as defined within the Code and limits work hours to 7:00 am and 6:00 pm for excavating and demolition work.

The Village of Garden City Codes relating to noise are addressed in Chapter 152, Article V, §152-9 (Building Construction), which requires that *“No person shall operate or use or cause, suffer or permit to be operated or used any equipment or tool which emits or causes to be emitted any sound or noise in the construction, demolition, maintenance or repair of any building in the village before 8:00 a.m. and after 8:00 p.m. Monday through Friday and before 9:00 a.m. and after 8:00 p.m. on Saturday and Sunday.”*

The NYSDEC has published a policy and guidance document titled Assessing and Mitigating Noise Impacts (NYSDEC, 2001). This document provides guidance on when noise due to projects has the potential for adverse impacts and requires review and possible mitigation in the absence of local regulations. The NYSDEC guidance indicates that it should not supersede local noise ordinances or regulations. The guidance indicates that a noise increase of 10 decibels (dBA) deserves consideration of avoidance and mitigation measures in many cases. It is further indicated that the addition of a noise source, in a non-industrial setting, should not raise the ambient noise level above a maximum of 65 dBA.

Background noise in the vicinity of the Site area within the local community is predominantly from vehicular traffic (heavy vehicular traffic, cars, trucks and buses idling, automobile acceleration, loud mufflers, car horns, loud car stereos, car alarms, brakes squealing, ambulance/police sirens, etc.). Noise influences from off-site commercial shops and facilities, and people talking are also present at the Site area. The LIRR ROW is inactive since it has no railroad tracks.

4.7.2 Vibration Standards

Two vibration thresholds will be observed during the remedial action. The first threshold (“warning threshold”) will be triggered if vibration levels equal or exceed 0.5 inch per second peak particle velocity (PPV) in proximity to adjacent structures. Exceedance of this threshold during the remedial action will trigger a review of Site construction practices in order to identify potential causes and evaluate modifications to those practices.

The second threshold level (“stop work”) will be triggered if vibration levels exceed 1.0 PPV in proximity to adjacent structures. Exceedance of this threshold during the remedial action will result in a temporary suspension of work in the area of the affected structure(s). The structure(s) will then be evaluated for potential structural impacts and mitigative measures will be considered based on the nature and extent of the impact. Also, once the vibration-causing activities are halted, a portable vibration monitor will be installed directly on the affected structure and the activity temporarily resumed. If vibration levels remain below the maximum vibration limit then operations may be continued. If vibration levels continue to exceed the maximum vibration limit then modifications to the procedures and/or equipment will be implemented until the vibration levels are at or below the acceptable range.

5.0 REFERENCES

KeySpan Corporation. 2007. *Citizen Participation Plan for the Former Hempstead MGP Site*.
June.

NYSDEC. 2001. *Assessing and Mitigating Noise Impacts*. February.

NYSDEC. 2009 *Draft DER-10 Technical Guidance for Site Investigation and Remediation*
(November).

TABLES

**Table H1
Project Management Contacts**

New York State Department of Environmental Conservation

Lech Dolata
Project Manager
NYSDEC, Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7017
(518) 402-9662

Walter Parish
Regional Hazardous Waste Engineer
NYSDEC – Region 1 Headquarters
Building 40
SUNY – Stony Brook
Stony Brook, NY 11790-2356
(516) 444-0241

New York State Department of Health

Sharon McLelland
NYSDOH
Bureau of Environmental Exposure Investigation
547 River Street
Troy, NY 12180-2216
(518) 402-7880 or (800) 458-1158

Nassau County Department of Health

Joseph DeFranco
Nassau County Department of Health
106 Charles Lindbergh Boulevard
Uniondale, NY 11553
(516) 227-9429

National Grid

Community Relations
National Grid
175 East Old Country Road
Hicksville, NY 11801

Hempstead Project Hotline – (516) 545-6161

**Table H2
Affected and/or Interested Parties**

Local Government Representatives

Incorporated Village of Hempstead
99 Nichols Court
Hempstead, NY 11550
(516) 489-3400

- Mayor Wayne J. Hall, Sr.
- Debra Urbano-DiSalvo (Village Attorney)
- George M. Sandas (Superintendent of Parks & Recreation)
- Daniel Simone (General Supervisor of Public Works)
- Frank Germinaro (Director, Hempstead Dept. of Public Works)

Supervisor Kate Murray
Town of Hempstead
1 Washington Street
Hempstead, NY 11550
(516) 489-5000

Legislator Robert Troiano
1 West Street
Mineola, NY 11550
(516) 571-6202

Incorporated Village of Garden City
351 Stewart Avenue
Garden City, NY 11530
(516) 742-5800

- Mayor Donald T. Brudie
- Christopher Markin, P.E. (Village Engineer)
- Robert J. Mangan, P.E. (Director of Public Works)
- Robert L. Schoelle, Jr. (Administrator)

Legislator Kevan Abrahams
1 West Street
Mineola, NY 11550
(516) 571-6201

Legislator Vincent T. Muscarella
1 West Street
Mineola, NY 11550
(516) 571-6208

Senator Kemp Hannon
1600 Stewart Avenue
#315
Westbury, NY 11590
(516) 222-0007

Legislator David Denenberg.
1 West Street
Mineola, NY 11550
(516) 571-6219

Director of Environmental Coordination
Nassau County
1 West Street
Mineola, NY 11501

Assemblyman Thomas McKeivitt
1225 Franklin Avenue
Suite 465
Garden City, NY 11530

Community Organizations

Hempstead Chamber of Commerce
Mr. Leo Fernandez, President
P.O. Box 4264
1776 Denton Green Park
Hempstead, NY 11550
(516) 483 – 2000

Garden City Chamber of Commerce
Roger Eltringham, President
Althea Robinson, executive Director
230 Seventh Street
Garden City, NY 11530
(516) 746-7724

**Table H2
Affected and/or Interested Parties**

Local Newspapers

Meadowbrook Times
379 Central Avenue
Lawrence, NY 11559
(516) 569-4000

Hempstead Beacon
1 Jonathan Avenue
Hicksville, NY 11801
(516) 931-1400

Franklin Square Bulletin
139 Tulip Avenue
Floral Park, NY 11001
(516) 775-7700

La Tribuna Hispana USA
P.O. Box 186
Hempstead, NY 11550
(516) 486-6457

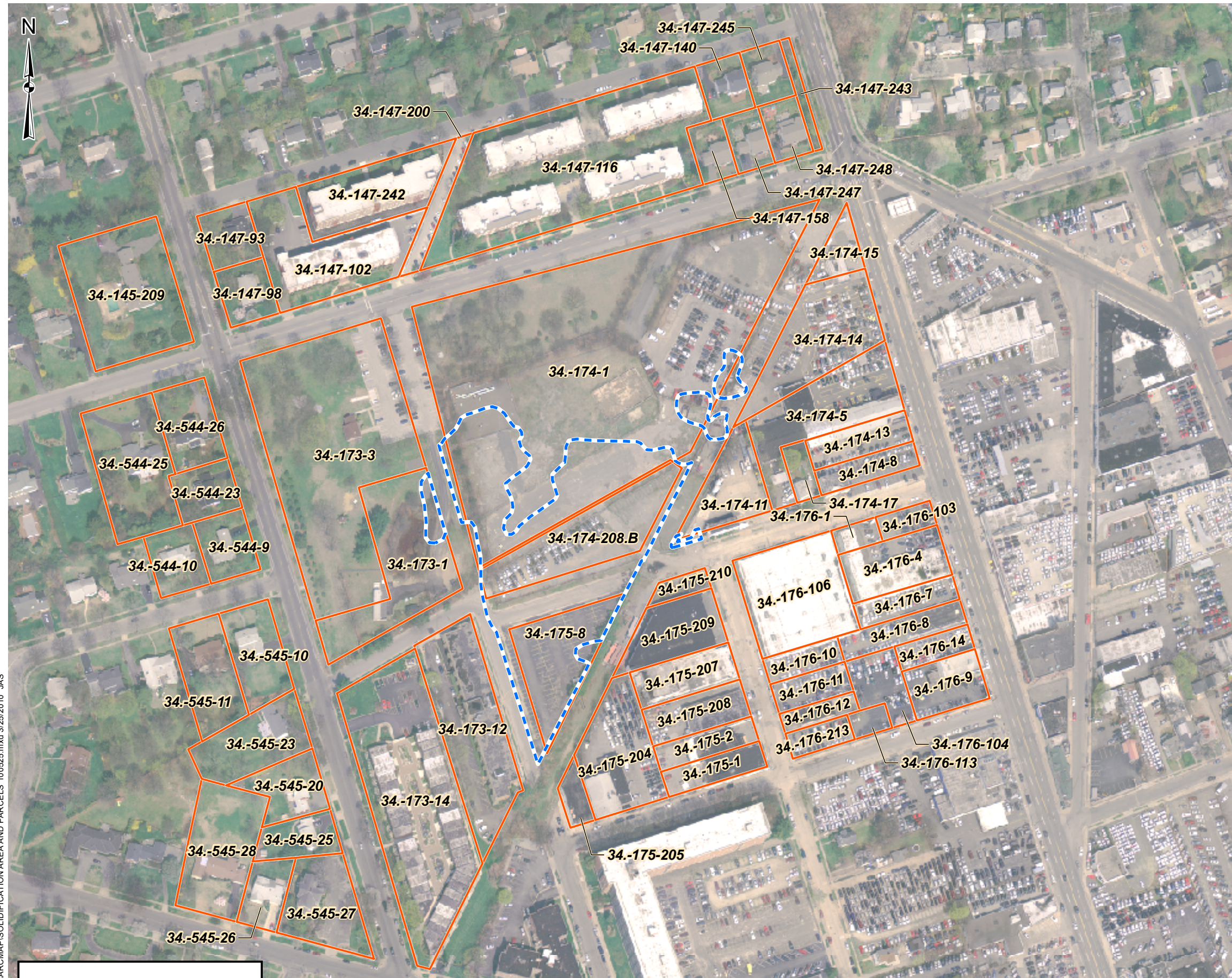
Garden City News
821 Franklin Avenue
Garden City, NY 11530
(516) 294-8900

Garden City Life
135 Liberty Avenue
Mineola, NY 11501
(516) 747-8282

FIGURES



J:\11175065.00000\DBG\GIS\ARCMAP\SOLIDIFICATION AREA AND PARCELS_100525.mxd 3/25/2010 JAS



Parcel ID	Parcel Address
34.-175-8	230 Hilton Ave
34.-175-205	77 Smith St Wendell St
34.-173-3	Hilton Ave
34.-173-12	230 Hilton Ave
34.-173-14	200 Hilton Ave
34.-175-210	77 Sealey Ave
34.-175-209	73-75 Sealey Ave
34.-175-204	63 Smith St
34.-175-207	61 Sealey Ave
34.-175-208	57 Sealey Ave
34.-175-2	55 Sealey Ave
34.-175-1	49 Sealy Ave
34.-176-10	277 Franklin St
34.-176-8	277 Franklin St
34.-176-104	17 Smith St
34.-176-14	273 Franklin St
34.-176-9	265 Franklin St
34.-176-11	277 Franklin St
34.-176-12	54 Sealey Ave
34.-176-113	17-21 Smith St
34.-176-213	52 Sealey Ave
34.-176-106	32-44 Intersection St
34.-176-1	283 North Franklin St
34.-176-103	283 Franklin St
34.-176-7	281 Franklin St
34.-176-4	283 Franklin St
34.-174-11	45 Intersection St
34.-174-5	301-305 Franklin St
34.-174-17	23 Intersection St
34.-174-8	283 Franklin St
34.-174-13	299 No Franklin St
34.-174-15	130 Franklin Ave
34.-174-14	301 Franklin St
34.-174-208.B	Intersection St
34.-174-1	Wendell Street
34.-173-1	Cedar Valley Ave
34.-173-1	189 Atlantic Ave
34.-545-28	179 Atlantic Ave
34.-545-26	215 Hilton Ave
34.-545-27	217 Hilton Ave
34.-545-25	235 Hilton Ave
34.-545-20	225 Hilton Ave
34.-545-10	20 Barnes Ln
34.-544-10	17 Barnes Ln
34.-544-9	19 Barnes Ln
34.-544-23	12 Hilton Ave
34.-544-26	92 Second St
34.-544-25	90 Second St
34.-545-11	16 Barnes Ln
34.-145-209	18 Hilton Ave
34.-147-93	19 Hilton Ave
34.-147-98	15 Hilton Ave
34.-147-200	Franklin Ave
34.-147-242	12 Hamilton Pl
34.-147-102	101 Second St
34.-147-243	Franklin Ave
34.-147-248	131 Second St
34.-147-247	133 Second St
34.-147-158	135 Second St
34.-174-15	40 Hamilton Pl
34.-174-14	38 Hamilton Pl
34.-174-5	34 Hamilton Pl
34.-174-13	
34.-174-8	
34.-174-11	
34.-176-1	
34.-174-17	
34.-176-103	
34.-176-4	
34.-176-106	
34.-176-7	
34.-176-8	
34.-176-14	
34.-176-9	
34.-176-10	
34.-176-11	
34.-176-12	
34.-176-213	
34.-176-104	
34.-176-113	
34.-175-210	
34.-175-209	
34.-175-207	
34.-175-208	
34.-175-2	
34.-175-1	
34.-175-204	
34.-175-205	
34.-175-8	
34.-174-208.B	
34.-174-11	
34.-174-1	
34.-173-3	
34.-173-1	
34.-173-12	
34.-173-14	
34.-544-26	
34.-544-25	
34.-544-23	
34.-544-9	
34.-544-10	
34.-545-10	
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34.-545-20	
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34.-147-98	
34.-147-102	
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34.-147-116	
34.-147-243	
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34.-147-247	
34.-147-158	
34.-174-15	
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34.-174-11	
34.-176-1	
34.-174-17	
34.-176-103	
34.-176-4	
34.-176-106	
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34.-176-14	
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34.-545-25	
34.-545-27	
34.-545-26	

Legend

--- Limits of ISS Remediation

□ Tax Parcels

NOTE: Parcel boundaries derived from Nassau County Department of Assessment Internet Map Server. Owner information derived from New York State Office of Real Property Services, 2007 and 2009 Real Property Data, downloaded from the New York State GIS Clearinghouse.



NATIONAL GRID
HEMPSTEAD INTERSECTION ST. FORMER MGP SITE
PROPERTY OWNERSHIP


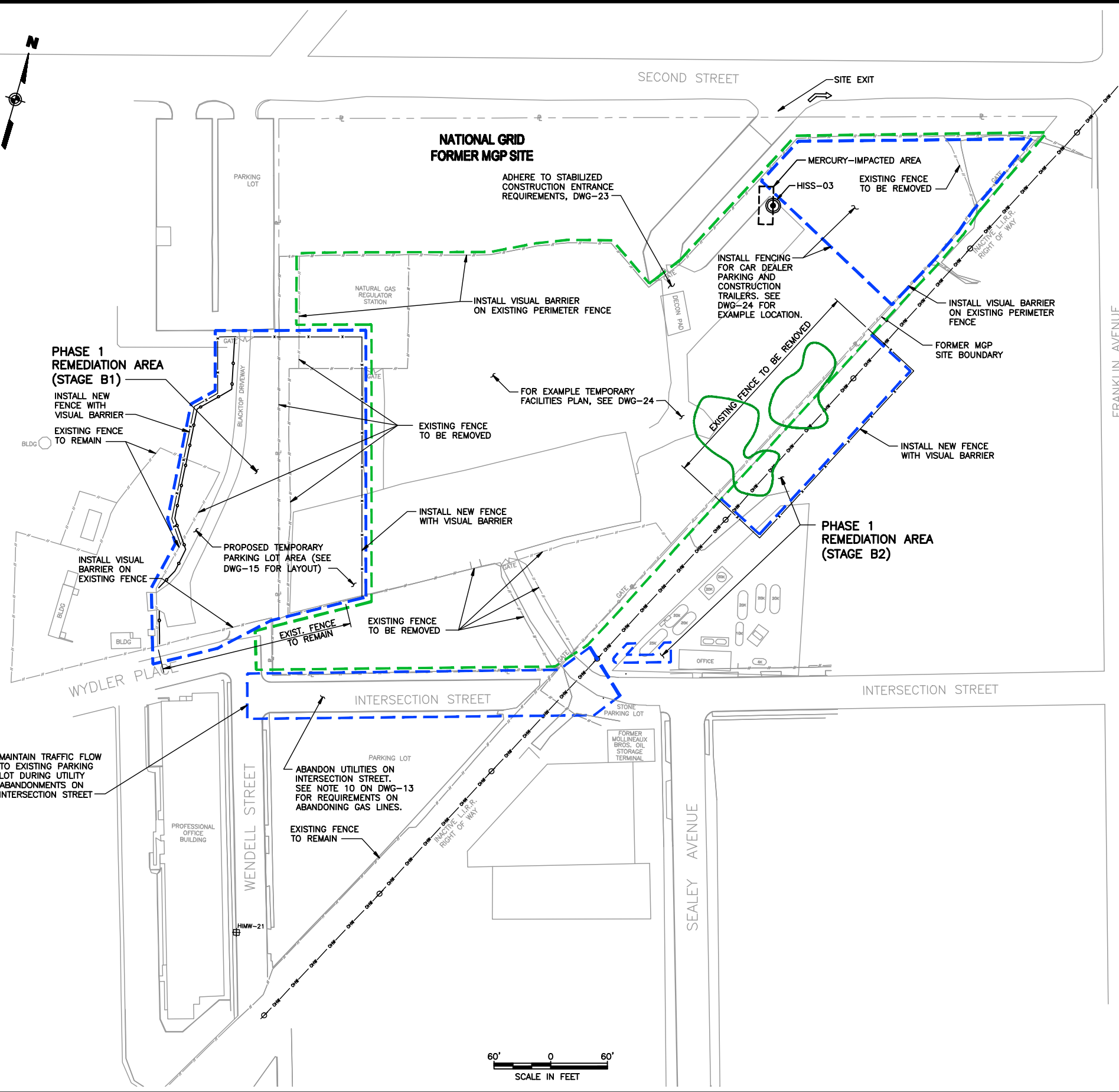


FIGURE 1



NOTES:

1. THE CONTRACTOR SHALL STAGE CONSTRUCTION TO PROVIDE A CONTINUOUS AND UNOBSTRUCTED PARKING AREA FOR THE PROFESSIONAL OFFICE BUILDING DURING BOTH PHASE 1 AND 2 OF THE REMEDIATION PROJECT.
2. (NOT USED)
3. FENCING AND GATES SHALL BE INSTALLED PER SPECIFICATION SECTION 02821.
4. TEMPORARY PARKING LOT SHALL BE GRADED TO PROVIDE POSITIVE DRAINAGE AT ALL TIMES AND DRAIN AWAY FROM HANDICAP PARKING STALLS.
5. (NOT USED)
6. CONSTRUCTION SEQUENCING AND SCHEDULING SHALL BE COORDINATED WITH TIME ALLOWANCES REQUIRED BY ALL UTILITIES ON THEIR REQUIRED PROTECTION MEASURES, NOTIFICATIONS, REVIEW AND APPROVALS.
7. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF PROPOSED MET STATION AND TEMPORARY FACILITIES WITH SOIL SAMPLING AND EXCAVATION OF MERCURY IMPACTED AREA SHOWN ON DWG-4. SEE DWG-24 FOR EXAMPLE OF TEMPORARY FACILITIES LAYOUT.
8. TREE PROTECTION ZONE NOT SHOWN. REFER TO SPECIFICATION SECTION 02231 FOR REQUIRED LIMITS.
9. FOR LOCATION OF EXISTING TREES, SEE DWG-4.
10. FOR EXCAVATION REQUIREMENTS, INCLUDING DUST AND ODOR CONTROL, DURING EXCAVATIONS, REFER TO SPECIFICATION SECTION 02300. REFER TO SPECIFICATION SECTION 01056 FOR NOISE/VIBRATION REQUIREMENTS DURING EXCAVATIONS.
11. PROTECT ALL CATCH BASINS IN ACCORDANCE WITH THE NEW YORK STATE GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
12. CONSTRUCTION ACCESS TO/FROM WYDLER PLACE IS PROHIBITED.

LEGEND:

- STAGE A LIMITS
- STAGE B LIMITS
- PROPOSED TEMPORARY FENCE WITH VISUAL BARRIER
- PROPOSED EROSION/SEDIMENT CONTROL MEASURES
- EXISTING FENCE
- LOCATION OF EXISTING STRUCTURE OR ROAD
- LIMIT OF MGP SOURCE MATERIAL TREATMENT

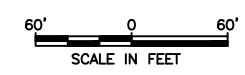
GENERAL CONSTRUCTION SEQUENCE - PHASE 1:

- STAGE A**
- CONTRACTOR MOBILIZATION.
 - ERECT TEMPORARY CONTAINMENT BUILDING.
 - ESTABLISH SUPPORT AREAS (FIELD OFFICE TRAILERS, BATCH PLANT, MATERIAL STAGING & EQUIPMENT LAYDOWN AREAS). SEE DWG-24.
 - INSTALL TEMPORARY CONSTRUCTION FENCES AND EROSION /SEDIMENT CONTROL MEASURES ON THE FORMER MGP SITE.
 - OTHERS TO INSTALL COMMUNITY AIR MONITORING SYSTEM AND COLLECT BACKGROUND DATA.
 - DECOMMISSION MONITORING WELLS, PIEZOMETERS, AND PRODUCT RECOVERY WELLS (BY NATIONAL GRID UNLESS DIRECTED OTHERWISE). SEE DWG-11.
 - CLEAR AND GRUB AS NECESSARY.
 - NATIONAL GRID TO RELOCATE GAS LINES IN THE VICINITY OF THE REGULATOR STATION. SEE DWG-13.
 - REMEDIATE MERCURY IMPACTED AREAS. SEE DWG-4.
 - INSTALL SITE FACILITIES, GROUT BATCH PLANT, AND MOBILIZE DEEP SOIL MIXING EQUIPMENT.
- STAGE B**
- REMOVE, RELOCATE, OR PROTECT UTILITIES WITHIN THE PHASE 1 REMEDIATION AREA.
 - POSITION THE TEMPORARY CONTAINMENT BUILDING.
 - CONSTRUCT TEMPORARY CAR DEALER PARKING AREA.
 - EXCAVATE FORMER MGP SITE IN AREA OF PROPOSED TEMPORARY PARKING LOT.
 - CLEAR AND GRUB AND REMOVE TREES WITHIN FOOTPRINT OF STAGE B1.
 - ROUGH GRADE AND EXCAVATE NEAR RECHARGE BASIN.
 - REMOVE AND RELOCATE UTILITIES WITHIN INTERSECTION STREET. SEE DWG-13.
 - CONDUCT DSM FIELD DEMONSTRATION TEST PROGRAM.
 - DEEP SOIL MIX AREA SHOWN IN STAGE B1 LIMITS (AREA OF PROPOSED TEMPORARY PARKING LOT).
 - REMEDIATE AREAS SHOWN IN STAGE B2 LIMITS ALONG LRR ROW.
 - CONSTRUCT TEMPORARY PARKING LOT IN AREA STAGE B1, SHOWN ON DWG-15.

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MAINTAIN TRAFFIC FLOW TO EXISTING PARKING LOT DURING UTILITY ABANDONMENTS ON INTERSECTION STREET

ABANDON UTILITIES ON INTERSECTION STREET. SEE NOTE 10 ON DWG-13 FOR REQUIREMENTS ON ABANDONING GAS LINES.



THIS DRAWING CONTAINS FEATURES INTENDED TO BE PRINTED IN COLOR AS SHOWN ON ORIGINAL CONTRACT DRAWINGS. REPRODUCTION IN BLACK AND WHITE MAY OBSCURE THE INTENDED EFFECT OF THE COLOR FEATURES.

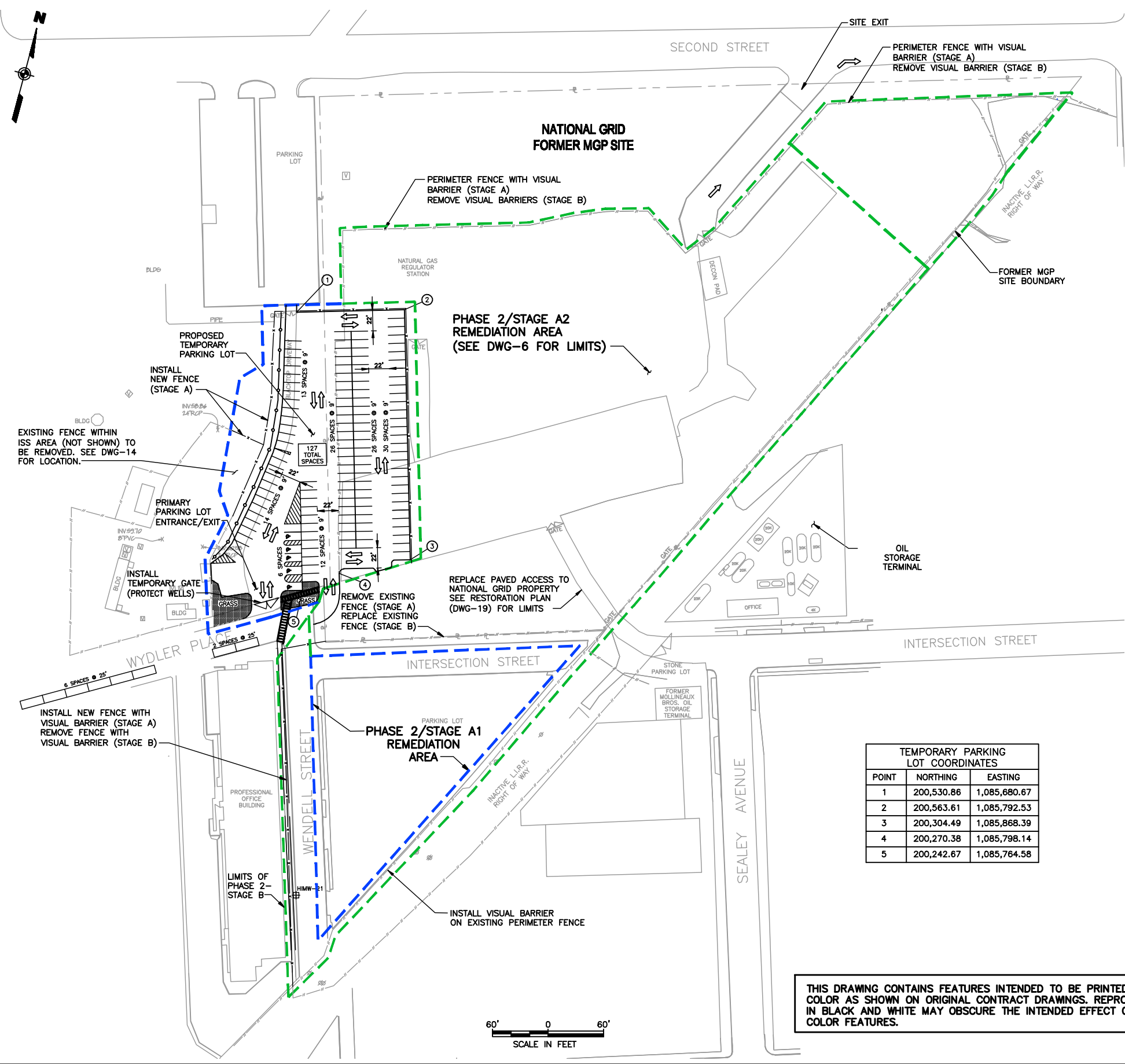
URS Corporation

nationalgrid
175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS PLANT SITE

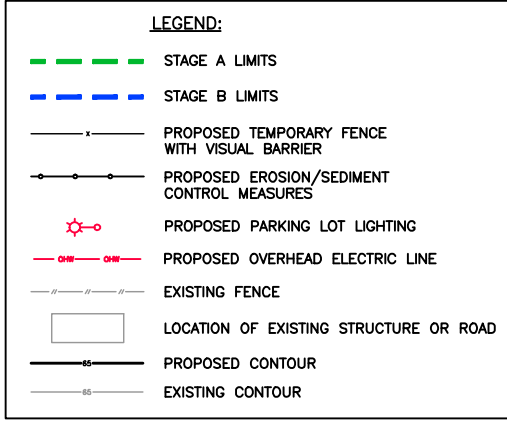
CONSTRUCTION SEQUENCING PLAN
(SHEET 1 OF 2)

Figure 2



NOTES:

1. THE CONTRACTOR SHALL STAGE CONSTRUCTION TO PROVIDE A CONTINUOUS AND UNOBSTRUCTED PARKING AREA FOR THE PROFESSIONAL OFFICE BUILDING DURING BOTH PHASE 1 AND 2 OF THE REMEDIATION PROJECT.
2. (NOT USED.)
3. FENCING AND GATES SHALL BE INSTALLED PER SPECIFICATION SECTION 02821.
4. (NOT USED.)
5. (NOT USED.)
6. TEMPORARY FENCE WITH VISUAL BARRIER ASSOCIATED WITH THE TEMPORARY PARKING LOT SHALL BE INSTALLED PRIOR TO THE START OF STAGE A.
7. TREE PROTECTION ZONE NOT SHOWN. REFER TO SPECIFICATION SECTION 02231 FOR REQUIRED LIMITS.
8. FOR LOCATION OF EXISTING TREES, SEE DWG-4.
9. FOR FINAL GRADING OF PROPOSED TEMPORARY PARKING LOT, SEE DWG-18.
10. FOR STABILIZED CONSTRUCTION ENTRANCE DETAIL, SEE DWG-23.
11. LIGHT FIXTURE: 150W METAL HALIDE, TYPE III DISTRIBUTION, MOUNTED 25' ABOVE FINISHED GRADE ON TEMPORARY STANDARD WOODEN POLE. INTEGRAL PHOTO SENSOR CONTROL. BASIS OF DESIGN: LITHONIA LIGHTING KAD 150M R3 TB SCWA WWD 09. PROVIDE TEMPORARY WOOD POLES WITH OVERHEAD DISTRIBUTION FOR LIGHTING AND ALL NECESSARY SUPPORTS. PROVIDE ALL COMPONENTS NECESSARY FOR A COMPLETE FUNCTIONING TEMPORARY LIGHTING SYSTEM IN TEMPORARY PARKING AREA AS SHOWN; TO MEET ALL APPLICABLE CODES AND STANDARDS.
12. PROVIDE CONNECTION TO EXISTING NATIONAL GRID POWER SERVICE ON SITE. PROVIDE OVERHEAD FEED FROM SERVICE TO LIGHTING SYSTEM AND A MAIN SERVICE DISCONNECT AT SERVICE. COORDINATE SERVICE LOCATION WITH OWNER.
13. GROUND LIGHTING SYSTEM PER NEC.
14. TEMPORARY PARKING LOT SHALL BE CONSTRUCTED PRIOR TO STARTING REMEDIATION WORK IN PHASE 2/STAGE A1 AREA. ONCE THE EXISTING PARKING LOT, INTERSECTION AND WENDELL STREET ARE FULLY RESTORED, THE TEMPORARY PARKING LOT MAY BE ABANDONED. SEE DWG-18A AND 19A FOR RESTORATION PLAN.

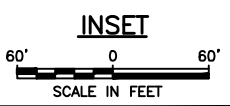
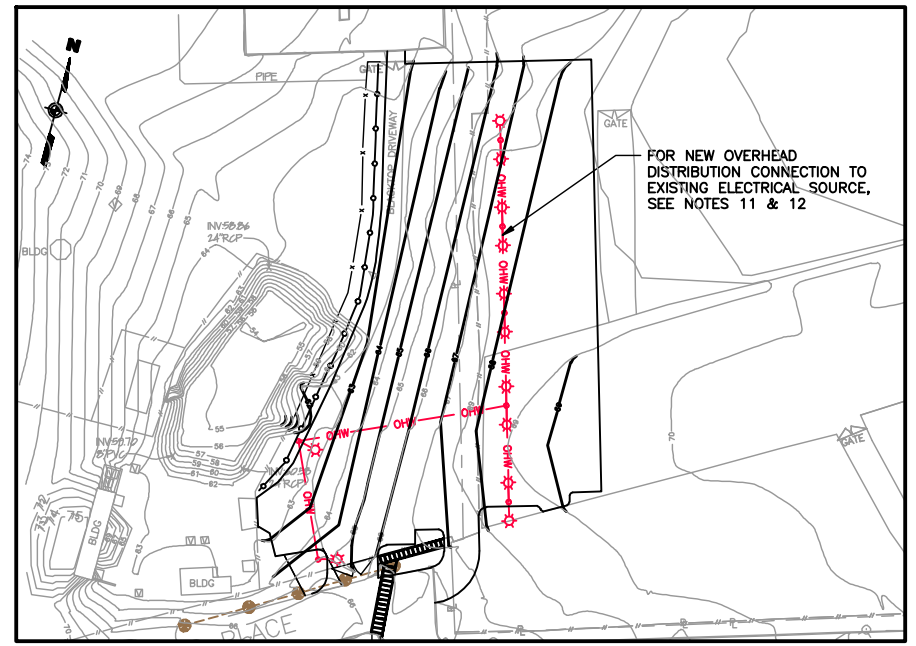


GENERAL CONSTRUCTION SEQUENCE - PHASE 2:

- STAGE A**
- INSTALL SOIL-CRETE RETAINING WALL AND EXCAVATE AS SHOWN ON EXCAVATION PLAN DWG-16 STAGE A1 AREA.
 - STOCKPILE SOILS IN PHASE 2/STAGE A2 AREA AS REQUIRED.
 - DSM STAGE A1 AREA AND STOCKPILE SPOILS IN PHASE 2/STAGE A2 AREA.
 - BACKFILL PHASE 2/STAGE A1 AREA.
 - EXCAVATE/DISPOSE MGP SOURCE MATERIAL AND FORMER MGP STRUCTURES, PHASE 2/STAGE A2 AREA.
 - DSM STAGE A2 AREA. (DWG-6)
- STAGE B**
- RESTORE PHASE 2/STAGE A1 AREA UTILITIES, INTERSECTION AND WENDELL STREET, AND PERMANENT PARKING LOT. (DWG-18 AND 19)
 - REMOVE TEMPORARY PARKING LOT AND RESTORE AREA.
 - RESTORE PHASE 2/STAGE A2 AREA.
 - REMOVE VISUAL BARRIERS ON PERIMETER FENCES AND RESTORE PERIMETER FENCES TO ORIGINAL LOCATIONS.

TEMPORARY PARKING LOT COORDINATES		
POINT	NORTHING	EASTING
1	200,530.86	1,085,680.67
2	200,563.61	1,085,792.53
3	200,304.49	1,085,868.39
4	200,270.38	1,085,798.14
5	200,242.67	1,085,764.58

THIS DRAWING CONTAINS FEATURES INTENDED TO BE PRINTED IN COLOR AS SHOWN ON ORIGINAL CONTRACT DRAWINGS. REPRODUCTION IN BLACK AND WHITE MAY OBSCURE THE INTENDED EFFECT OF THE COLOR FEATURES.



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URS Corporation

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175 EAST OLD COUNTRY ROAD
HICKSVILLE, NEW YORK 11801

**THE HEMPSTEAD
INTERSECTION STREET
FORMER MANUFACTURED GAS PLANT SITE**

**CONSTRUCTION SEQUENCING PLAN
(SHEET 2 OF 2)**

Figure 3