

27-01 41ST AVENUE
QUEENS, NEW YORK

Remedial Investigation Report

NYC VCP Number: 14CVCP158Q
E- Designation Site Number: 13EHAZZ45Q

Prepared for:

River Bridge Tower, LLC
37-09 Main Street, Flushing NY 11354

Prepared by:

Environmental Technology Group, Inc. Suite 307
300 Wheeler Road, Hauppauge, NY 11788

631- 232-1987

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REMEDIAL INVESTIGATION REPORT

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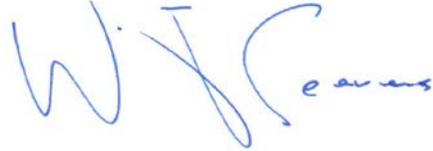
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LIST OF ACRONYMS

Acronym	Definition
AOC	Area of Concern
CAMP	Community Air Monitoring Plan
COC	Contaminant of Concern
CPP	Citizen Participation Plan
CSM	Conceptual Site Model
DER-10	New York State Department of Environmental Conservation Technical Guide 10
FID	Flame Ionization Detector
GPS	Global Positioning System
HASP	Health and Safety Plan
HAZWOPER	Hazardous Waste Operations and Emergency Response
IRM	Interim Remedial Measure
NAPL	Non-aqueous Phase Liquid
NYC VCP	New York City Voluntary Cleanup Program
NYC DOHMH	New York City Department of Health and Mental Hygiene
NYC OER	New York City Office of Environmental Remediation
NYS DOH ELAP	New York State Department of Health Environmental Laboratory Accreditation Program
OSHA	Occupational Safety and Health Administration
PID	Photoionization Detector
QEP	Qualified Environmental Professional
RI	Remedial Investigation
RIR	Remedial Investigation Report
SCO	Soil Cleanup Objective
SPEED	Searchable Property Environmental Electronic Database

CERTIFICATION

I, William J. Seevers, am a Qualified Environmental Professional, as defined in RCNY § 43-1402(ar). I have primary direct responsibility for implementation of the Remedial Investigation for the River Bridge Tower LLC Condo Site, (NYC BCP Site No. Number Pending). I am responsible for the content of this Remedial Investigation Report (RIR), have reviewed its contents and certify that this RIR is accurate to the best of my knowledge and contains all available environmental information and data regarding th 27-01 41st Avenue, in Long Island City



William J. Seevers

6/27/2013

Qualified Environmental Professional

Date

Signature

EXECUTIVE SUMMARY

The Remedial Investigation Report provides sufficient information for establishment of remedial action objectives, establishment of remedial action alternatives and selection of a remedy pursuant to RCNY 43-1407(f). The Remedial Investigation (RI) described in this document is consistent with applicable guidance.

Site Location and Current Use

The site is located on the northeast corner of 27th Street and 41st Ave in Long Island City. The surface of the site is flat and featureless with no evidence of drums or other potential contaminants. It is free of vegetation. All buildings and structures have been removed and the site is completely free and open. (See Figure 23).

Summary of Proposed Redevelopment Plans

The entire 10,000 square foot lot will be covered by the footprint of a 6-story condominium. Floors 2 through 6 of the building will contain 4. The basement space of this building, which will be 12 feet below grade, will be occupied by an underground parking garage, as well as mechanical rooms and an elevator shaft. There will be 22 parking spaces. The first floor will contain the lobby and commercial print shop. The current zoning is M1-2/R6A and the proposal is consistent with existing plans for this development. See Figures 12 to 22 for architectural drawings.

Summary of Past Uses

The project site is located at 27-01 41st Avenue in the Long Island City section of Queens. It is currently identified on the New York City Tax Map as Block 405, Lot 5, and it is the 10,000 square foot lot on the southwest corner of 27th Street and 41st Avenue.

Lot 5 was formerly divided into four lots (Lot Nos. 5, 6, 7, and 8). Some of the historic information on commercial activity is referenced to the former lot numbers.

The following information is based on the EDR (Environmental Data Resources) reporting:

1. An NYSDEC Spill No. 0003871 was opened on the northwest corner of Lot 5 on June 29, 2000. The sources were leaky drums – the contents were not identified. The spill

remained open until February 2, 2003, at which time it was closed. The postal address for the spill is 40-41 27th Street.

2. A store was located on former Lot 5 from 1915 to 2006 until it was demolished in 2013 – its most recent use had been as a delicatessen.
3. Former Lot 6 was a two story residential building from 1915 to 1970.
4. Former Lot Nos. 7 and 8 were occupied by a store, a dwelling, and a warehouse that may have been used for automobiles from 1915 to 1950. The warehouse contained a gas tank, which was marked unused. This appears on all Sanborn maps between 1936 and 1950.
5. In 1928, Lot 7 was associated with a Ford Garage – later, it was the location of a factory.

Summary of Work Performed under the Remedial Investigation

1. Conducted a site inspection to identify AOCs and physical obstructions.
2. Conducted a magnetometer and Ground Penetrating Radar Survey to locate possible underground fuel storage tanks and buried drums.
3. Drill six soil borings, each to a depth of 15 feet for field screening by PID and for chemical analysis.
4. Installed three groundwater wells, each to a depth of 40 feet, for water levels, ground water gradient and flow direction and sampling for chemical analyses (see Figure 2 for location).
5. Installed four soil vapor probes for soil vapor sampling and analysis by TO-15 method.

Summary of Environmental Findings

1. Elevation of the property is about 40 feet above msl.
2. Depth to groundwater is about 32 feet below ground surface.
3. Groundwater flow is generally from east to west.
4. Depth to bedrock is approximately 70 feet below ground surface.

5. The results of the GPR survey revealed patches of small debris items of the sort that would be found on a demolition debris site. There were no large objects corresponding in size and shape to underground storage tanks or drums. The site was free of large buried objects.
6. Soil/fill samples collected during the RI showed no detectable concentrations of VOCs or PCBs. Five exceedances were found of SVOCs including benzo(a)anthracene (max. of 3100 ug/Kg), benzo(a)pyrene (max. of 2500 ug/Kg), chrysene (max. of 3200 ug/Kg), and indeno(1,2,3-cd)pyrene (max. of 1400 ug/Kg) were detected above their respective Restricted Residential Use SCOs within shallow soil samples (0 – 5 feet) see Table 1. The SVOCs detected above Unrestricted/Restricted Residential SCOs are all PAH compounds and their concentrations and distribution indicate that they are associated with historic fill material. One pesticide, chlordane at a concentration of 490 ug/Kg, was detected above Unrestricted Use SCOs in one shallow soil sample. This pesticide concentration is well below Restricted Residential SCOs. Three metals including chromium (max. of 799 ppm), lead (max. of 457 ppm) and mercury (max. of 1.16 ppm) exceeded Unrestricted Use SCOs in one of more shallow soil sampling locations. Chromium, lead, and mercury also exceeded Restricted Residential SCOs, in one shallow sample each (see Table 2). No VOCs, SVOCs, pesticides or metals were detected above Unrestricted Use SCOs in any of the deep soil samples collected at the Site. Overall, the soil findings were unremarkable.
7. Groundwater samples collected during the RI showed the presence of one VOC, tetrachloroethene at 2.3 ug/L which is below the New York State 6NYCRR Part 703.5 Groundwater Quality Standards (GQS). Four SVOCs were detected in groundwater at trace levels. The metals including iron, magnesium, manganese, and sodium were detected above their respective NYSDEC Groundwater Quality Standards (GQS) in all three groundwater samples. Pesticides were not detected in any groundwater sample.
8. Soil vapor samples collected during the RI showed chlorinated VOCs and petroleum related VOCs at moderate concentrations. Tetrachloroethylene (PCE) was identified in all four soil vapor samples and ranged in concentration of 9.9 $\mu\text{g}/\text{m}^3$ to 207 $\mu\text{g}/\text{m}^3$, (see Table 3) trichloroethylene (TCE) was detected within two of the soil vapor samples at a maximum concentration of 11.2 $\mu\text{g}/\text{m}^3$ and 1,1,1- TCA was detected at a maximum

concentration of $12.8 \mu\text{g}/\text{m}^3$. Carbon tetrachloride was not detected in any soil vapor. The PCE and TCE concentrations are within the monitoring level ranges established within the State DOH soil vapor guidance matrix. Concentrations of petroleum-related VOCs including cyclohexane (max. concentration $912 \mu\text{g}/\text{m}^3$), ethylbenzene (max. concentration $242 \mu\text{g}/\text{m}^3$), hexane (max. concentration $75,000 \mu\text{g}/\text{m}^3$), xylenes (max. concentration $273 \mu\text{g}/\text{m}^3$) and toluene (max. concentration $177,000 \mu\text{g}/\text{m}^3$) were detected at moderate to high levels.

INTRODUCTION

The Remedial Investigation Report (RIR) provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy pursuant to RCNY§ 43-1407(f). The remedial investigation (RI) described in this document is consistent with applicable guidance.

Site Location and Current Usage

The site is located at the intersection of 27th Street and 41st Avenue in Long Island City, NY.

It is currently vacant and unused.

Summary of Proposed Redevelopment Plan

The 10,000 square foot site will occupy the entire lot. Floors 2 to 6 each will have 4 residential apartments. It will be excavated to a depth of 12 feet and the basement space will be occupied by a motor car garage for 22 vehicles. The basement will abide by the NYCDOB mechanical code for underground garage space in New York City. In this way any soil vapor that would otherwise be an environmental liability will be cleared from the site.

Summary of Past Uses of Site and Areas of Concern

The project site is located at 27-01 41st Avenue in the Long Island City section of Queens. It is currently identified on the New York City Tax Map as Block 405, Lot 5, and it is the 10,000 square foot lot on the southwest corner of 27th Street and 41st Avenue.

Lot 5 was formerly divided into four lots (Lot Nos. 5, 6, 7, and 8). Some of the historic information on commercial activity is referenced to the former lot numbers.

The following information is based on the EDR (Environmental Data Resources) reporting:

6. An NYSDEC Spill No. 0003871 was opened on the northwest corner of Lot 5 on June 29, 2000. The sources were leaky drums – the contents were not identified. The spill remained open until February 2, 2003, at which time it was closed. The postal address for the spill is 40-41 27th Street.
7. A store was located on former Lot 5 from 1915 to 2006 until it was demolished in 2013 – its most recent use had been as a delicatessen.

8. Former Lot 6 was a two story residential building from 1915 to 1970.
9. Former Lot Nos. 7 and 8 were occupied by a store, a dwelling, and a warehouse that may have been used for automobiles from 1915 to 1950. The warehouse contained a gas tank, which was marked unused. This appears on all Sanborn maps between 1936 and 1950.
10. In 1928, Lot 7 was associated with a Ford Garage – later, it was the location of a factory.

Summary of Critical Findings

- Elevation of the property ranges from 40.57 to 38.68 feet.
- Depth to groundwater ranges from 34 to 32 feet at the Site. The northwest corner of the property is the high point on the property (see Table 4).
- Groundwater flow is generally from East to West beneath the Site.
- Depth to bedrock is approximately 70 feet at the Site. The stratigraphy of the site, from the surface down, consists of 70 feet of the Upper Glacial Aquifer geologic unit underlain by crystalline bedrock.
 - Soil/fill samples collected during the RI showed evidence of historic fill with slight exceedances of SCOs for some SVOCs, metals and pesticides. Metals in all samples – all located in basement area to be excavated).
- Groundwater samples collected during the RI showed no exceedances, with the exception of some metals.
- Soil vapor samples collected during the RI showed slightly elevated concentrations of PCE and moderate to high levels of petroleum-related compounds.

REMEDIAL INVESTIGATION REPORT

1.0 SITE BACKGROUND

River Bridge Tower, LLC has applied to enroll in the New York City Voluntary Cleanup Program (NYC VCP) to investigate and remediate a 0.25-acre site located at the 27-01 - 41st Avenue address in Long Island City section of Queens, New York. A mixed commercial residential use is proposed for the property. The RI work was performed between January 18, 2013 and May 25, 2013. This RIR summarizes the nature and extent of contamination and provides sufficient information for establishment of remedial action objectives, evaluation of remedial action alternatives, and selection of a remedy that is protective of human health and the environment consistent with the use of the property pursuant to RCNY§ 43-1407(f).

1.1 SITE LOCATION AND CURRENT USAGE

The Site is located at 27-01 41st Avenue in the Long Island City section in Queens, New York, and is identified as Block 405 and Lot 5 (former Lots 5, 6 and 7) on the New York City Tax Map. Figure 23 shows the Site location. The Site is 10,000-square feet and is bounded by residential/commercial to the north, 41st Avenue to the south, residential to the east, and 27th Street to the west. Currently, the Site is vacant and unused and contains no buildings. The entire site is within the limits of Lot 5.

1.2 Proposed Redevelopment Plan

The proposed future use of the Site will consist of a six story condominium structure on the entire 10,000 sq.ft. footprint of the site. The current zoning designation is M-1 Industrial. The proposed use is consistent with existing zoning for the property.

The proposed development will be a six story structure that will occupy the entire 10,000 square foot lot. The total area of the building will be approximately 60,000 square feet. The basement will be occupied as an underground motor vehicle garage with 22 parking spaces. Floors 2 through 6 will each contain 4 residential apartments. The first floor will contain the lobby and a commercial print shop. None of the area will be common space. There will be no grade level landscaped areas. See Figures 12 to 22 for architectural drawings.

Excavation below grade will be to a depth of 12 feet.

The approximate volume of excavated material will four thousand cubic yards and the excavation will be well above the groundwater table which is approximately 22 feet below the floor of the garage.

The excavation will occupy the entire 10,000 square foot area of the building.

All structures and buildings have been demolished and removed from the site including the construction and demolition debris.

1.3 DESCRIPTION OF SURROUNDING PROPERTY

The surrounding area and the adjoining properties are mainly residential and light industrial. A school, the Academy of American Studies at 40-11 28th St, Queens, NY 11101, is located approximately 250 feet east of the site. Growing up Green Charter School (39-37 28th Street, Queens, NY 11101) is also located in the vicinity. SPEED web site was used to locate other nearby sensitive sites. Aside from the local schools no other sensitive sites were identified (see Figure 25).

2.0 SITE HISTORY

2.1 PAST USES AND OWNERS

On Lot 5 **somewhere** near the northwest corner, NYSDEC reports a spill of 500 gallons of liquid contents that led to the assignment of NYSDEC Spill number 00-03871 in the year 2000. The northwest corner of the lot is also where a suspect gasoline UST may be located. The chemistry of the liquid product was not determined and the spill number was closed in 2003. The site testing focused on soil vapor, and soil and groundwater chemistry, to determine if the impact of this spill were still evident. Nothing was found in any of the three media tests.

- Former Lot 5 was occupied by a store between 1915 and 2006.
- Former Lot 6 was a residential building from 1915 through 1970. After 1977 the property is labeled as vacant.
- Former Lot 7 (Lots 7 and 8) contains a dwelling, a store and a warehouse. Between 1936 and 1950, the warehouse is labeled as having associated automobile uses, as well as a gas tank which is labeled as "not used." After 1970, Lot 7 was associated with a garage and later a manufacturing use.
- Lot 7 was associated with a garage and later a factory.

Other locations in the vicinity of the subject property were reported with other lots as locations containing factory, offices and storage warehouses.

2.2 PREVIOUS INVESTIGATIONS

No previous investigations are known to exist.

2.3 SITE INSPECTION

The results of a site inspection as performed by the party preparing the RIR; in this case it was W.J. SeEVERS. The inspections of the site were performed after the building demolition and removal of construction debris from the site in January 16, 2013, and after the removal of construction debris. By that time the site was clean and clear with no evidence of drums or tanks or other industrial site construction debris.

2.4 AREAS OF CONCERN

The reported spill site near the northwest corner of Block 405, Lot 5 (former Lots 5, 6 and 7) was given special attention by soil, groundwater and soil vapor testing and analysis. A fill port is located on the sidewalk along the northwest area of the subject property. Soil vapor results indicated petroleum related VOCs. There was no evidence of surficial discoloration or odor.

Phase 1 Environmental Assessment Report has been submitted under separate and earlier cover.

3.0 PROJECT MANAGEMENT

3.1 PROJECT ORGANIZATION

The Qualified Environmental Profession (QEP) responsible for preparation of this RIR is William J. Seevers.

3.2 HEALTH AND SAFETY

All work described in this RIR was performed in full compliance with applicable laws and regulations, including Site and OSHA worker safety requirements and HAZWOPER requirements.

3.3 MATERIALS MANAGEMENT

All material encountered during the RI was managed in accordance with applicable laws and regulations.

4.0 REMEDIAL INVESTIGATION ACTIVITIES

Enrollee performed the following scope of work:

1. Conducted a Site inspection to identify AOCs and physical obstructions (i.e. structures, buildings, etc.);
2. Installed six soil borings across the entire project Site, and collected twelve soil samples for chemical analysis from the soil borings to evaluate soil quality;
3. Installed three groundwater monitoring wells throughout the Site to establish groundwater flow and collected three groundwater samples for chemical analysis to evaluate groundwater quality;
4. Installed four soil vapor probes across the site and collected four samples for chemical analysis.

4.1 GEOPHYSICAL INVESTIGATION

A Magnetometer and Ground Penetrating Radar (GPR) survey was run over the entire site on February 25, 2013. The survey was run by J C Broderick Environmental of Hauppauge, NY.

The magnetometer was run with a White's TM808 Metal Detector. The GPR was run with a Noggin 250 Smart Cart unit.

Figure 2 shows the location of soil borings in the vicinity of GPR anomalies. The anomaly in the northwestern corner of the site may be a UST. The GPR study also appeared to indicate that appurtances from this anomaly may have extended to a fill port located on the adjacent sidewalk.

4.2 BORINGS AND MONITORING WELLS

Drilling and Soil Logging

All of the test borings were done with a track mounted geoprobe (Geoprobe7720DT). The geoprobe unit was also used to install the soil vapor sampling taps, This work was also done by JC Broderick of Hauppauge NY.

The six soil borings were located at points on the property where small anomalies were found by the geophysical surveys. The borings were drilled to a depth of 15 feet in order to reach levels that would correspond to the excavation depths of the proposed underground garage. The entire

sampling interval was scanned with a PID meter. All PID readings were zero. The materials penetrated consisted of fine to medium sand, light brown in color and tending to a coarser texture at the 15 foot depth. We

found no evidence of staining or odors that would indicate the presence of contamination. The borings were one inch in diameter and were installed and back filled after sampling.

The continuous cores over the 15 foot interval were described in detail and scanned with a PID meter to determine if there were any volatile organic compound exceedances. The cores were scanned visually and at no point did we find anything other than clean well sorted sand. No staining or the presence of organic material anywhere in the drilling results. We encountered no solid objects such as demolition debris in the upper 15 feet or any evidence of buried tanks or drums. All of this confirming that the objects noted in the magnetometer survey and the GPR survey were probably not sources of contamination.

The three groundwater test wells were initially drilled to a diameter of one inch and when it was determined this size was too small for effective sampling new wells were drilled at a larger diameter and cased with two inch diameter PVC casing. A 10 foot length of 0.10 slot well screen was installed between depths of 30 and 40 feet and filter packed with Number One Morey sand. This screened interval was sealed above with a cement /bentonite blend to prevent the intrusion of surface water.

Monitoring Well logs were prepared by a geologist and are shown as Figures 3, 4, and 5. A map showing the location of soil borings is on Figure 2. Monitor well locations are show on Figure 10, and Soil Vapor taps are shown on Figure 11.

Groundwater Monitoring Well Construction

Three ground water sampling wells were drilled at the locations shown in Figure 10. The locations were selected on the basis of anomalies noted by the GPR survey. No correspondence was determined. As previously described they were drilled to a depth of 40 feet and to a diameter of two inches. A 10 foot length of screen was set between 30 and 40 feet. The screen slot was 0.10 inches The water levels were below 30 feet below grade and too deep to develop or sample by pumping. The wells were developed by bailing to the point where water was clear and to the point where clarity was no longer improving. The wells were bailed anywhere from 20 to 40 times.

Monitor well locations are shown in Figure 10.

Survey

The wells are shown by scale measured location in Figure 10

Water Level

Water level measurements were taken with an electric water level meter and the depths measured as 33 Ft. in Monitoring Well-1, 34 Ft. in Monitoring Well-2, and 32 Ft. in Monitoring Well-3. These were measured from the top of the casings, which are located at ground level. These measurements show an east to west gradient and are measured against a land surface that slopes very gradually from east to west (see Table 4).

4.3 SAMPLE COLLECTION AND CHEMICAL ANALYSIS

Sampling performed as part of the field investigation was conducted for all Areas of Concern and also considered other means for alternative sampling methods based on professional judgment, area history, discolored soil, stressed vegetation, drainage patterns, field instrument measurements, odor, or other field indicators. All media including soil, groundwater and soil vapor have been sampled and evaluated in the RIR. Discrete (grab) samples have been used for final delineation of the nature and extent of contamination and to determine the impact of contaminants on public health and the environment. The sampling performed and presented in this RIR provides sufficient basis for evaluation of remedial action alternatives, establishment of a qualitative human health exposure assessment, and selection of a final remedy.

Soil Sampling

Soil samples were collected and contained for each of the borings as the individual cores were examined and logged. The logged interval was scanned over the entire length of the core, The samples were taken by glove protected hands. The sampled interval was at depths of 0 - 5 feet bg and 10 - 15 feet bg. QA/QC for quality control included one duplicate sample. A total of twelve soil samples were collected for chemical analysis during this RI. Data on soil sample collection for chemical analyses, including dates of collection and sample depths, are reported in the Phoenix Environmental Laboratory reports that have been submitted under separate cover.

Figures 2 and 10 shows the location of samples collected in this investigation. Laboratories and analytical methods are shown below.

Groundwater Sampling

Three groundwater samples were collected for chemical analysis during this RI. Groundwater sample locations are shown on the site map in Figure 10. Analytical results are shown on the Phoenix Labs data sheets presented under separate cover. The two inch diameter wells were drilled to a depth of 40 feet and screened between 30 and 40 feet with a 10 slot PVC screen. The wells were developed by bailing, and the bailing continued until there was no further improvement in water clarity, usually after bailing from 20 to 40 times.

Soil Vapor Sampling

Four soil vapor sample probes designated SG 1 through SG 4 were installed at a depth of eight feet bgs during this remedial investigation. The locations of the soil gas probes are shown in Figure 11.

The soil gas probes were installed in accordance with NYSDOH Guidance for Evaluating Soil Vapor Intrusion. Each sampling probe consisted of a stainless steel screen or implant fitted with plastic tubing. Each of the implants is 1.5 inches in diameter. The insert was sealed with bentonite to prevent leakage. The plastic tubing was connected to a Summa Canister and gas was extracted. Following this, the entire canister was removed to laboratory for analysis.

Four soil vapor probes were installed, and four soil vapor samples were collected for 2 hours for chemical analysis during this RI. Soil vapor sampling locations are shown in Figure 11. Soil vapor sample collection data are found in the Phoenix Lab results, which were submitted under separate cover. Methodologies used for soil vapor assessment conform to the *NYS DOH Final Guidance on Soil Vapor Intrusion, October 2006*.

Chemical Analysis

Chemical analytical work presented in this RIR has been performed in the following manner:

Factor	Description
Quality Assurance Officer	The chemical analytical quality assurance is directed by W.J Seevers
Chemical Analytical Laboratory	Chemical analytical laboratory(s) used in the RI is NYS ELAP certified .It is the Phoenix Environmental Laboratory of Manchester Connecticut.
Chemical Analytical Methods	<p>Soil analytical methods:</p> <ul style="list-style-type: none"> • TAL Metals by EPA Method 6010C (rev. 2007); • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); <p>Groundwater analytical methods:</p> <ul style="list-style-type: none"> • TAL Metals by EPA Method 6010C (rev. 2007) unfiltered; • VOCs by EPA Method 8260C (rev. 2006); • SVOCs by EPA Method 8270D (rev. 2007); • Pesticides by EPA Method 8081B (rev. 2000); • PCBs by EPA Method 8082A (rev. 2000); <p>Soil vapor analytical methods:</p> <ul style="list-style-type: none"> • VOCs by TO-15 VOC parameters.

Results of Chemical Analyses

Laboratory data deliverables for all samples evaluated in this RIR are provided in digital form in the Phoenix Lab data reports (Appendices A, B, and C)

5.0 ENVIRONMENTAL EVALUATION

5.1 GEOLOGICAL AND HYDROGEOLOGICAL CONDITIONS

Stratigraphy

The USGS shows the unconsolidated surficial layers to correlate with the Upper Glacial Aquifer of Long Island. To a depth of 40 feet which was the maximum depth of testing the geology was very uniform. It consisted of fine to medium yellow brown sand. All of it well sorted and appearing permeable and capable of transmitting water freely.

Hydrogeology

Ground water flow direction, based on water level readings from the three wells on the site and on regional readings by the USGS is east to west. The gradient across the site is in the same direction.

The average depth to groundwater is 33 feet.

5.2 SOIL CHEMISTRY

Soil/fill samples collected during this investigation detected no VOCs or PCBs in any sample. Detectable levels of Metals were noted in almost all samples. A very small number of Semi-volatiles and pesticides were noted.

Soil/fill samples collected during the RI showed no detectable concentrations of VOCs or PCBs. Seven SVOCs including benzo(a)anthracene (max. of 3100 ug/Kg), benzo(a)pyrene (max. of 2500 ug/Kg), benzo(b)fluoranthene (max. of 3100 ug/Kg), benzo-(k)fluoranthene (max. of 960 ug/Kg), chrysene (max. of 3200 ug/Kg), dibenzo(a,h)anthracene (max. of 410 ug/Kg), and indeno(1,2,3-cd)pyrene (max. of 1400 ug/Kg) were detected above their respective Restricted Residential Use SCOs within shallow soil samples (0 – 5 feet). The SVOCs detected above Unrestricted/Restricted Residential SCOs are all PAH compounds and their concentrations and distribution indicate that they are associated with historic fill material (see Table 1). One pesticide, chlordane at a concentration of 490 ug/Kg was detected above Unrestricted Use SCOs in one shallow soil sample. This pesticide concentration is well below Restricted Residential SCOs. Four metals including chromium (max. of 799 ppm), copper (max. of 109 ppm), lead (max. of 457 ppm) and mercury (max. of 1.16 ppm) exceeded Unrestricted Use SCOs in one of

more shallow soil sampling locations. Of these metals, chromium, lead, and mercury also exceeded Restricted Residential SCOs, in one shallow samples each (see Table 2). No VOCs, SVOCs, pesticides or metals were detected above Unrestricted Use SCOs in any of the deep soil samples collected at the Site. Overall, the soil findings were unremarkable.

Data collected during the RI is sufficient to delineate the vertical and horizontal distribution of contaminants in soil/fill at the Site.

5.3 GROUNDWATER CHEMISTRY

Groundwater samples collected during the RI showed the presence of one VOCs, tetrachloroethene at 2.3 ug/L which is below the New York State 6NYCRR Part 703.5 Groundwater Quality Standards (GQS). Four SVOCs were detected in groundwater at trace levels. The metals including iron, magnesium, manganese, and sodium were detected above their respective NYSDEC Groundwater Quality Standards (GQS) in all three groundwater samples. Pesticides were not detected in any groundwater sample.

Data collected during the RI is sufficient to delineate the distribution of contaminants in groundwater at the Site.

5.4 SOIL VAPOR CHEMISTRY

Data collected during the RI is sufficient to define the presence of any soil vapors that would violate NY State health and environmental standards. The samples were analyzed in accordance with the TO-15 method. Soil vapor samples collected during the RI showed chlorinated VOCs and petroleum related VOCs at moderate concentrations. Tetrachloroethylene (PCE) was identified in all four soil vapor samples and ranged in concentration of 9.9 $\mu\text{g}/\text{m}^3$ to 207 $\mu\text{g}/\text{m}^3$, (see Table 3) trichloroethylene (TCE) was detected within two of the soil vapor samples at a maximum concentration of 11.2 $\mu\text{g}/\text{m}^3$ and 1,1,1- TCA was detected at a maximum concentration of 12.8 $\mu\text{g}/\text{m}^3$. Carbon tetrachloride was not detected in any soil vapor. The PCE and TCE concentrations are within the monitoring level ranges established within the State DOH soil vapor guidance matrix. Concentrations of petroleum-related VOCs including cyclohexane, ethylbenzene, hexane, xylenes and toluene were detected at moderate to high levels.

5.5 PRIOR ACTIVITY

Based on an evaluation of the data and information from the RIR, disposal of significant amounts of hazardous waste is not suspected at this site.

5.6 IMPEDIMENTS TO REMEDIAL ACTION

There are no known impediments to remedial action at this property.

Site-Specific Standards, Criteria and Guidance

- 6 NYCRR Part 371 - Identification and Listing of Hazardous Wastes
- 6 NYCRR Part 375 - Inactive Hazardous Waste Disposal Sites
- 6 NYCRR Parts 700-706 - Water Quality Standards (June 1998)
- STARS #1 - Petroleum-Contaminated Soil Guidance Policy
- TOGS 1.1.1 - Ambient Water Quality Standards & Guidance Values and Groundwater Effluent Limitations
- Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites (October 1994)
- Technical Guidance for Screening Contaminated Sediments (January 1999)
- NYSDOH Indoor Air Sampling & Analysis Guidance (August 8, 2001 or subsequent update)
- NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York (draft October 2004 or subsequent final draft)
- DER Interim Strategy for Groundwater Remediation at Contaminated Sites in New York State
- 6 NYCRR Part 612 - Registration of Petroleum Storage Facilities (February 1992)
- 6 NYCRR Part 613 - Handling and Storage of Petroleum (February 1992)

- 6 NYCRR Part 614 - Standards for New and Substantially Modified Petroleum Storage Tanks (February 1992)

40 CFR Part 280 - Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks

Table 1

Exceedances of SVOCs in Soil Samples taken from the top 5 Feet

All Samples Taken on 3/14/2013

Analyte	Track 2 Restricted Residential Part 375- 6.8	Track 1 Unrestricted Use Part 375-6.8a	S-3 0-5ft	S-4 0-5ft
Benzo(a)anthracene	1	1	3.10	1.30
Benzo(a)pyrene	1	1	2.50	1.20
Benzo(k)fluoranthene	1	1		1.50
Indeno(1,2,3cd)pyrene	0.5	0.5	1.40	0.66
Chrysene	1	1	3.20	1.40

Note: All samples taken from S-1 to S-6 from 10-15 ft were ND for above analytes.
 All values in ppm.

Table 2

Exceedances of Metals in Soil Samples taken from the top 5 Feet

All Samples Taken on 3/14/2013

Analyte	Track 2 Restricted Residential Part 375-6.8	Track 1 Unrestricted Use Part 375-6.8a	S-1	S-2	S-3	S-4	S-5	S-6
Chromium Hexavalent	22	1.0	18.1	19.8	18.7	799	16.8	17.9

Mercury	0.81	0.18			0.33	0.88	1.16	0.67
Lead	400	63	113		111	369	104	457

Monitoring Well ID No.	Date	Water Elevation (Ft.)
MW-1	3/14/13	6
MW-2	3/14/13	5
MW-3	3/14/13	4

Note: All values in ppm.

Table 3
Exceedances of Soil Gas
Sample Taken on 3/14/2013

Analyte	NYSDOH Maximum Levels Criteria	VP-4
Perc.	100	207

Note: All values in $\mu\text{g}/\text{m}^3$.

Table 4 – Groundwater Level Data

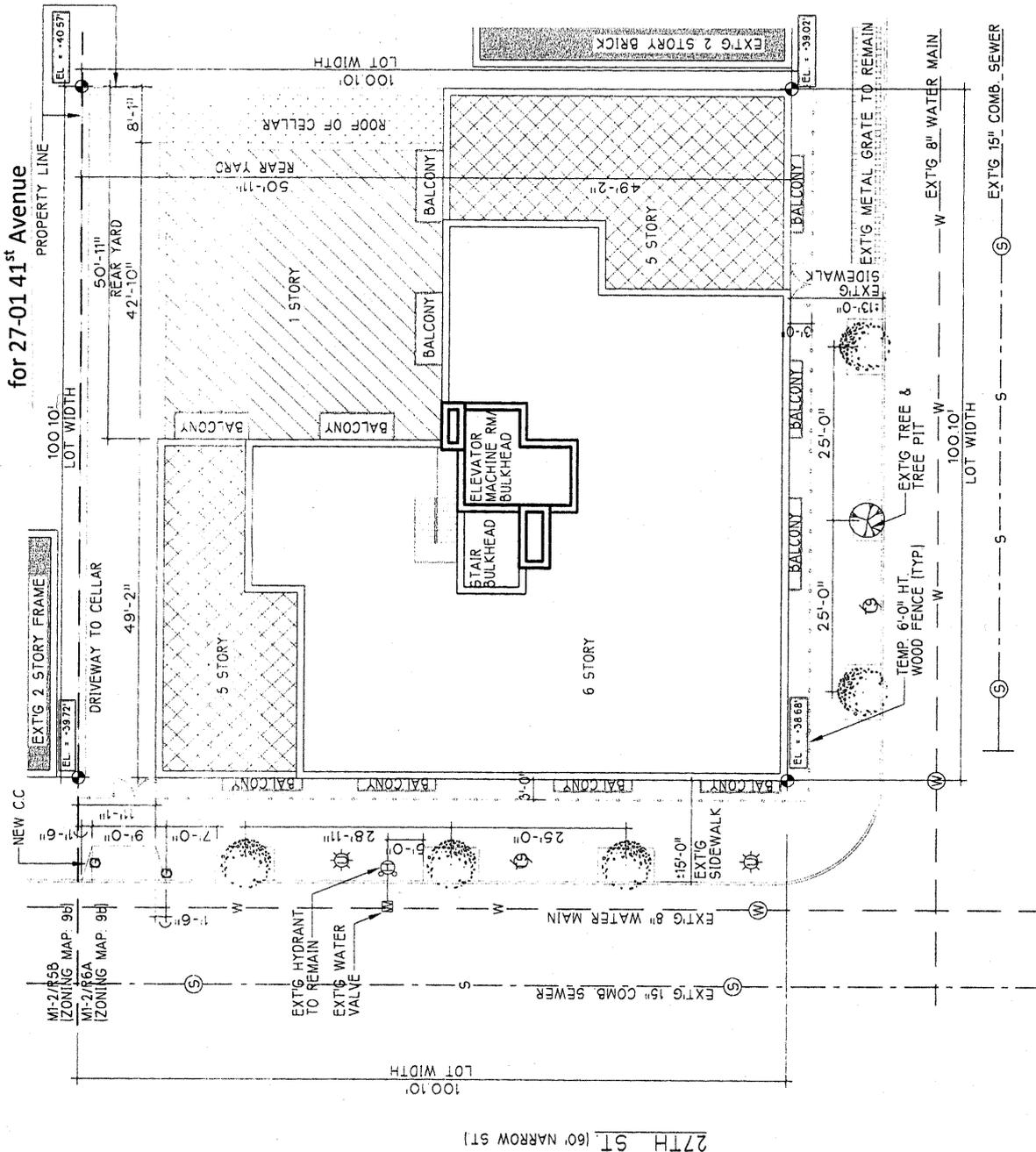
Note: Elevations shown are above sea level.

Figures

PLOT PLAN

SCALE: 1/16" = 1'-0"

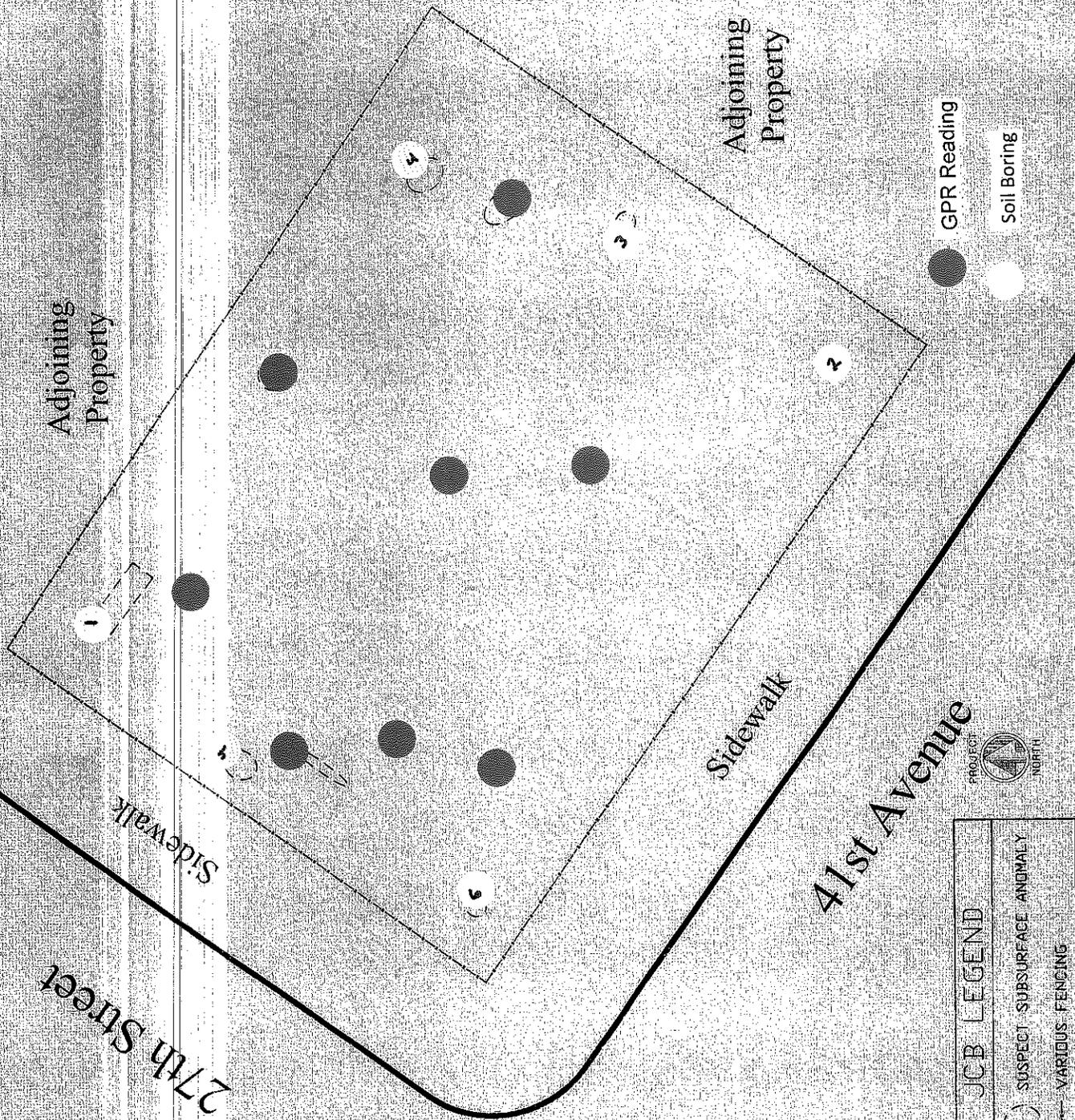
Figure 1 Plot Plan showing the footprint and the property boundary lines



41ST AVE. (160' NARROW ST.)

27TH ST. (160' NARROW ST.)

Figure 2 Site map showing the locations of GPR small anomalies together with the locations of six soil borings



JC BRODERICK & Associates
 Environmental
 Consulting and Testing
 1775 Expressway Drive North
 Hauppauge, NY 11788
 Phone: (631) 584-5492
 Fax: (631) 584-3395

Notes:
 27-01 41st Avenue
 Long Island City, NY
 11101

Issued For:
 Field Drawing
 of
 Limited
 Subsurface
 Inspection

Title: N.T.S.
Project No.: 19-25440
Date: 02-25-13

Drawn By: JVN
Checked By: SVM
Page No.: 1 of 1

Drawing No.: 1

JCB LEGEND

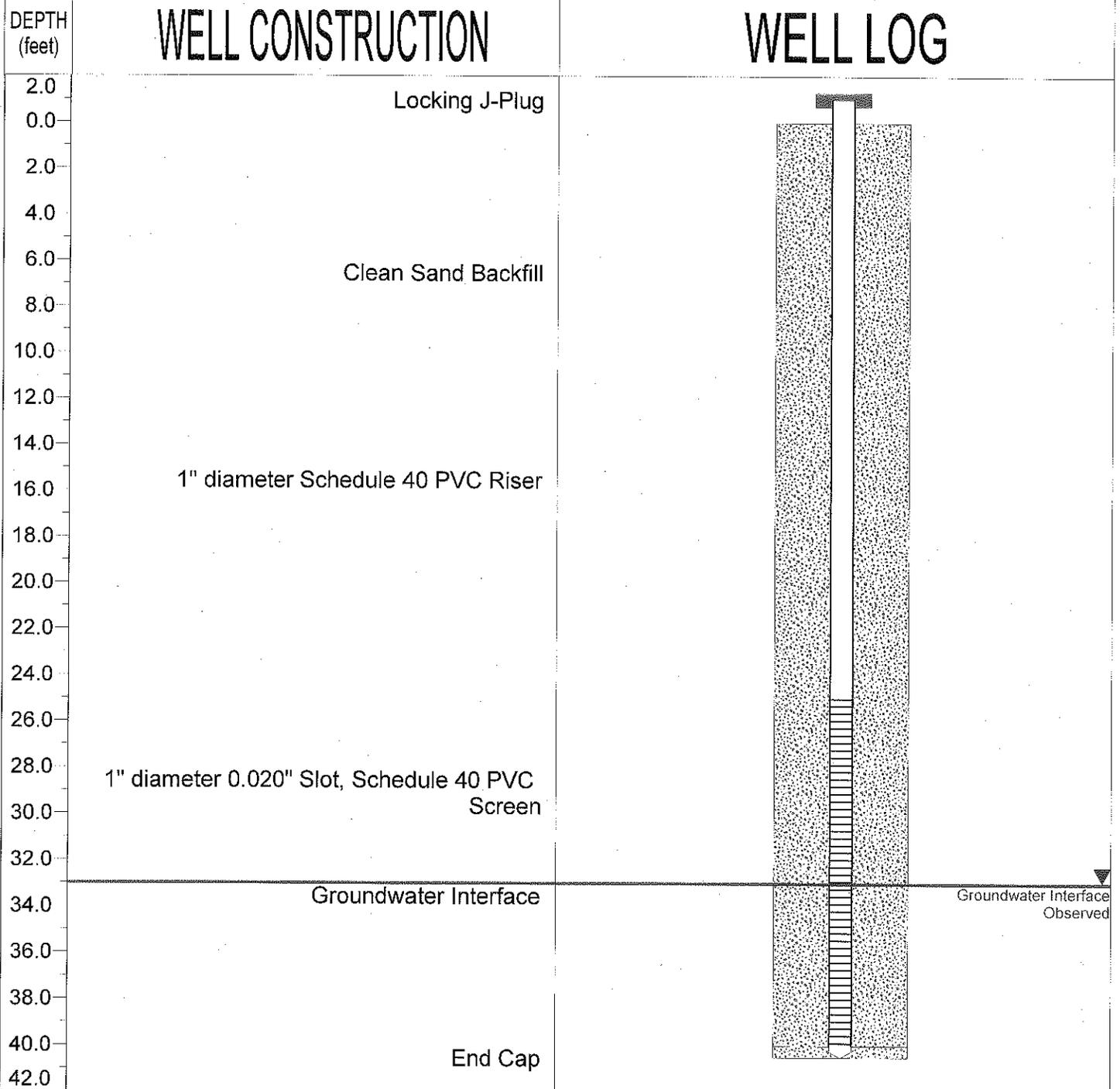
PROJECT: NORTH

○ SUSPECT SUBSURFACE ANOMALY

--- VARIOUS FENCING

Figure 3 Log and construction details of MW 1

PROJECT NAME: Long Island City		BORING NUMBER: MW-1	
PROJECT ADDRESS: 27-01 41st Avenue Long Island City, NY 11101		BORING LOCATION: North Corner of Subject Property	
DRILLING CONTRACTOR: JC Broderick & Associates, Inc.	DRILLING METHOD: 2.125 inch Direct Push Rods	TOTAL DEPTH: 40 Feet bsg	MEASURING POINT: Ground Surface
DRILLING EQUIPMENT: Geoprobe® 7720DT	SAMPLING METHOD: MC5 Soil Sampling System	GROUND SURFACE ELEVATION: 39 Feet Above Sea Level	DATE COMPLETED: 3/14/13
HAMMER WEIGHT: N/A	DROP: N/A	DEPTH TO GROUNDWATER: 33 Feet bsg	RESponsible Professional: Jeffrey Nannini
		LOGGED BY: Adam Hutchinson	



Log MW 1

0-1 Soil and plant debris, Dark brown

1-10 Fine light brown sand, well sorted and clean,, no evidence of bedding

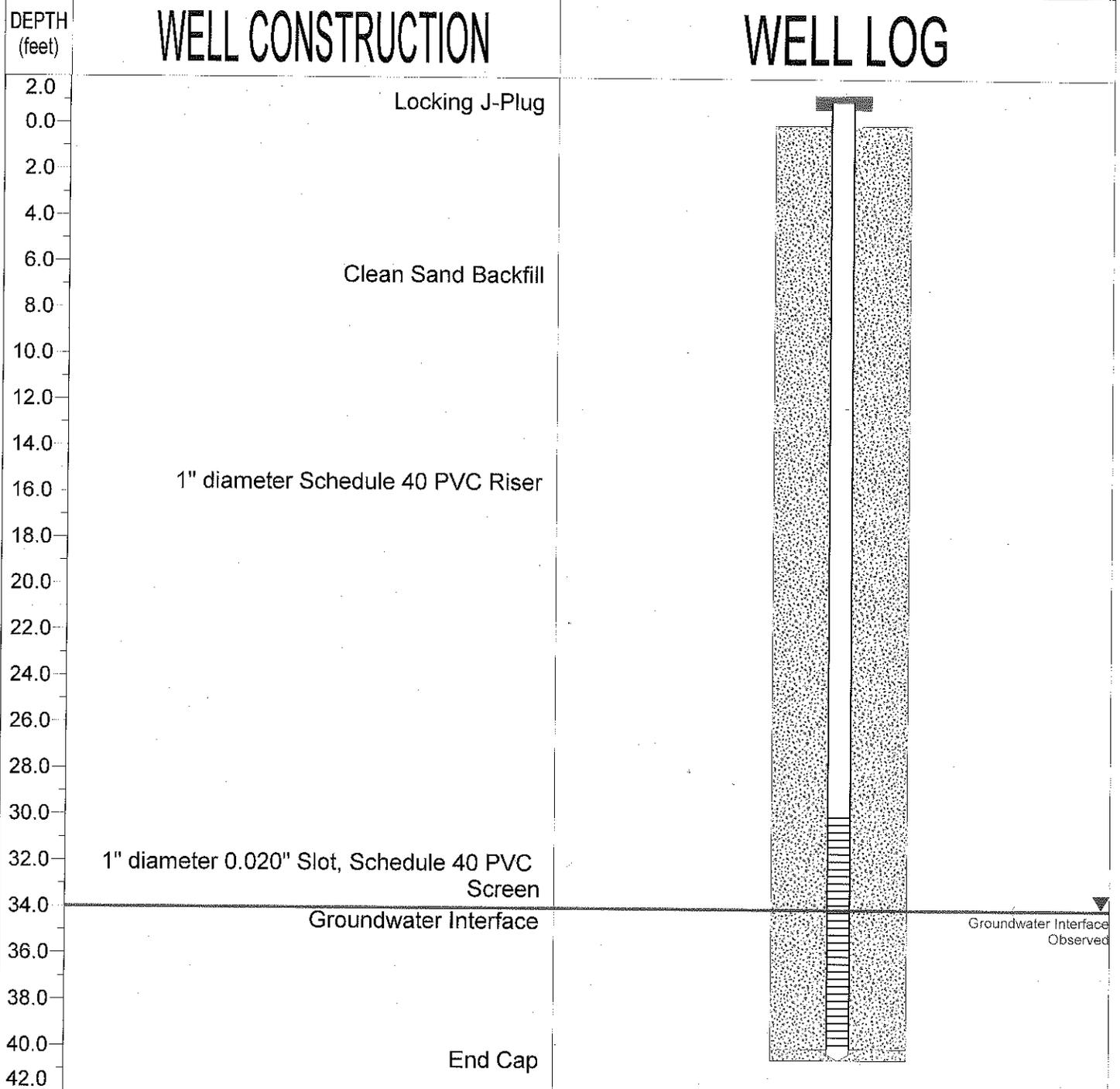
10-20 Fine sand as above, scattered intervals of medium sand, light brown

20-40 Fine to medium light brown sand, well sorted. No evidence of bedding. Much lighter in color at 40 feet

Log MW2

Figure 4 Log and construction details of MW 2

PROJECT NAME: Long Island City		BORING NUMBER: MW-2	
PROJECT ADDRESS: 27-01 41st Avenue Long Island City, NY 11101		BORING LOCATION: East Corner of Subject Property	
DRILLING CONTRACTOR: JC Broderick & Associates, Inc.		TOTAL DEPTH: 40 Feet bsg	MEASURING POINT: Ground Surface
DRILLING METHOD: 2.125 inch Direct Push Rods	DRILLING EQUIPMENT: Geoprobe® 7720DT	GROUND SURFACE ELEVATION: 39 Feet Above Sea Level	DATE COMPLETED: 3/14/13
SAMPLING METHOD: N/A		DEPTH TO GROUNDWATER: 34 Feet bsg	
HAMMER WEIGHT: N/A	DROP: N/A	RESPONSIBLE PROFESSIONAL: Jeffrey Nannini	LOGGED BY: Adam Hutchinson



Log MW2

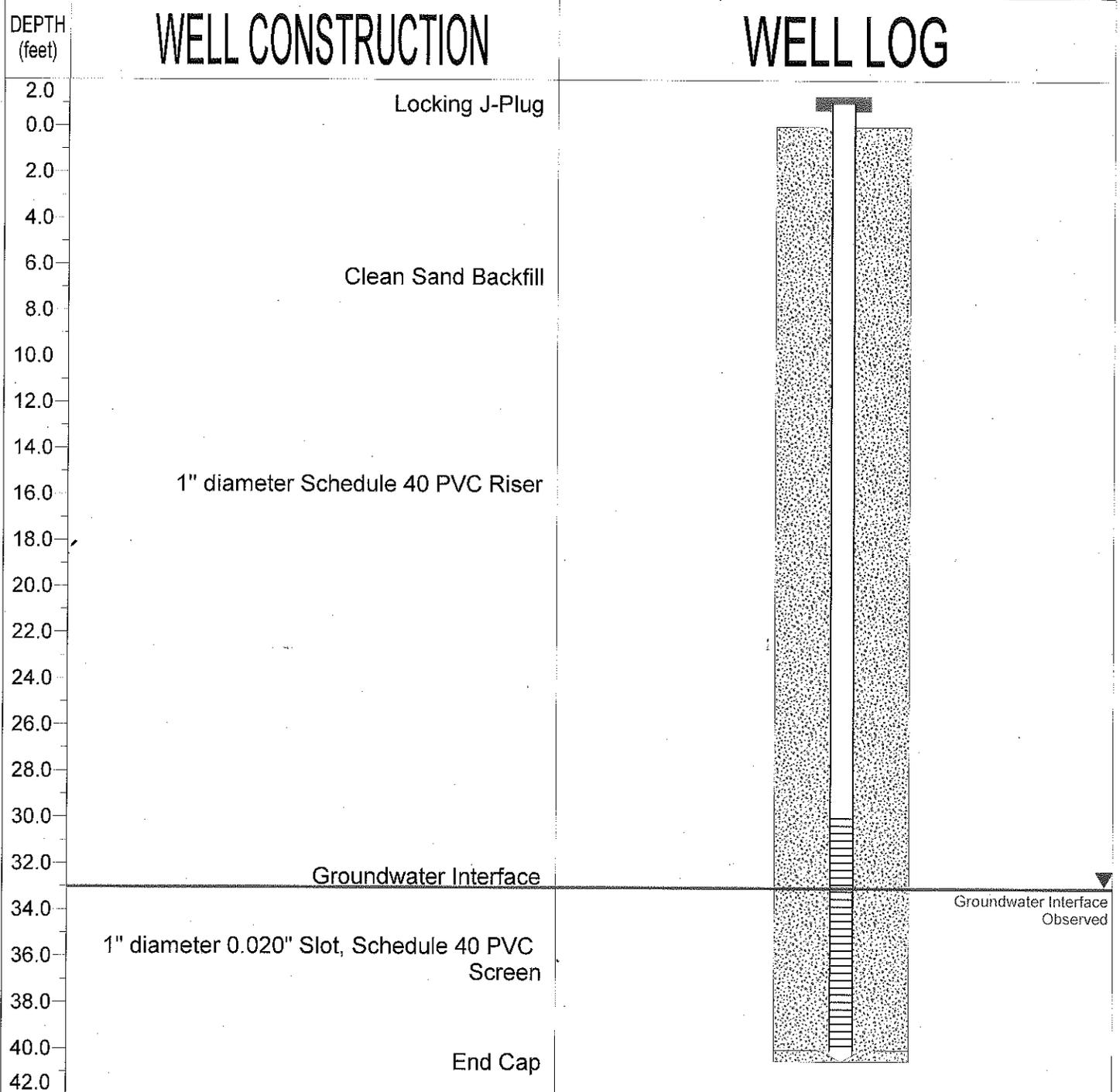
0-0.5 Dark brown soil, roots and plant debris, Some fill material

0.5-15 Fine to medium light brown sand, no evidence of bedding, well sorted

15-40 Light brown fine to medium sand. Becomes coarser in texture and lighter in color at 40 foot depth

Figure 5 Log and construction details of MW-3

PROJECT NAME: Long Island City		BORING NUMBER: MW-3	
PROJECT ADDRESS: 27-01 41st Avenue Long Island City, NY 11101		BORING LOCATION: Center of Subject Property	
DRILLING CONTRACTOR: JC Broderick & Associates, Inc.		TOTAL DEPTH: 40 Feet bsg	MEASURING POINT: Ground Surface
DRILLING METHOD: 2.125 inch Direct Push Rods		GROUND SURFACE ELEVATION: 39 Feet Above Sea Level	DATE COMPLETED: 3/14/13
DRILLING EQUIPMENT: Geoprobe® 7720DT		DEPTH TO GROUNDWATER: 32 Feet bsg	
SAMPLING METHOD: N/A		RESPONSIBLE PROFESSIONAL: Jeffrey Nannini	LOGGED BY: Adam Hutchinson
HAMMER WEIGHT: N/A	DROP: N/A		



Log MW 3

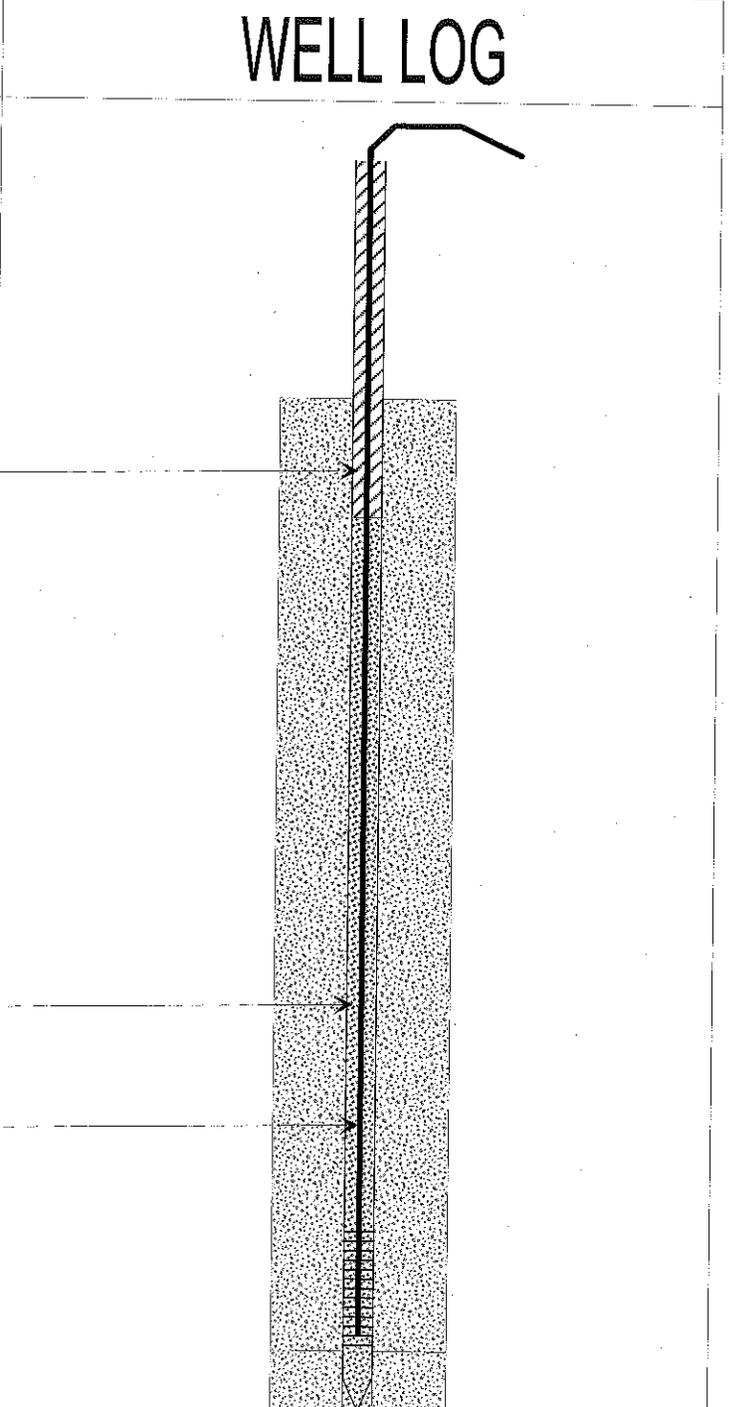
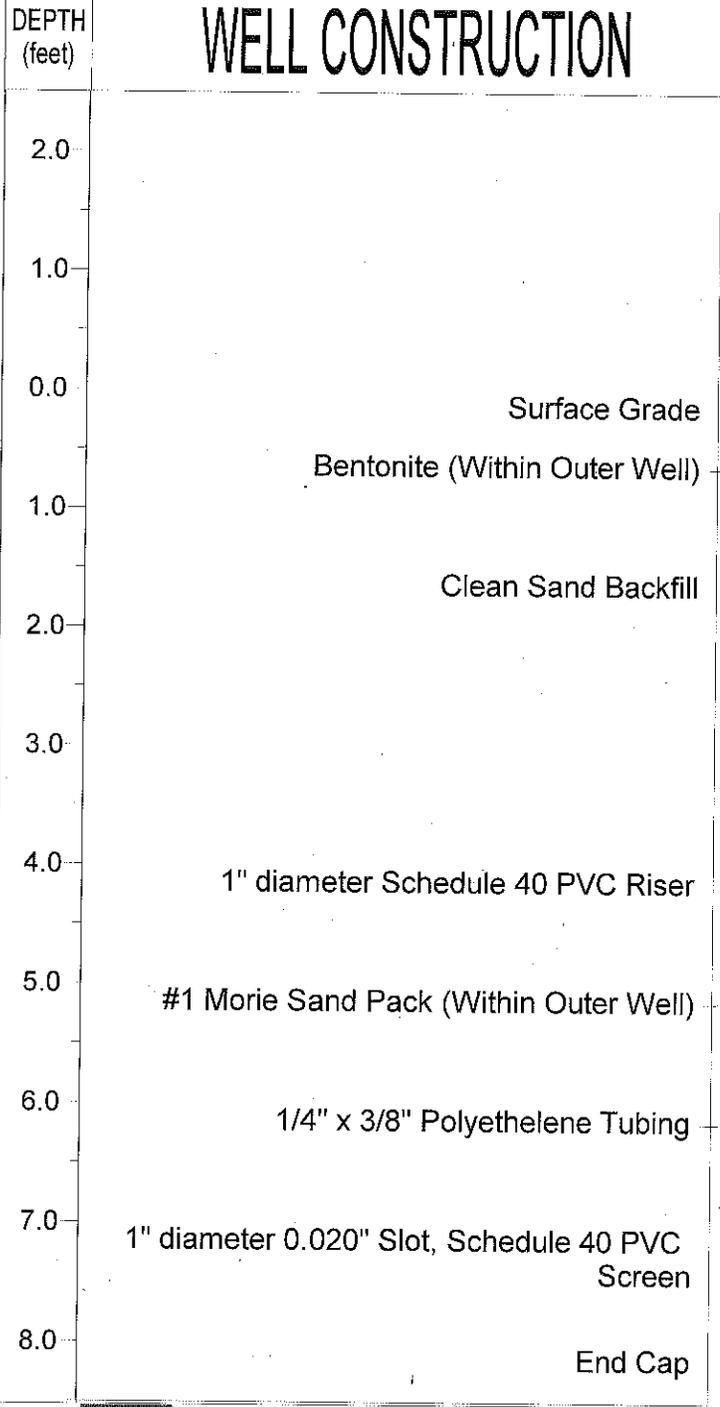
0-0.5 Dark brown soil with roots and plant debris. Some trash and construction debris

0.5-10 Sand, fine to medium, light brown and well sorted

10-30 Sand, fine to medium, light brown, well sorted

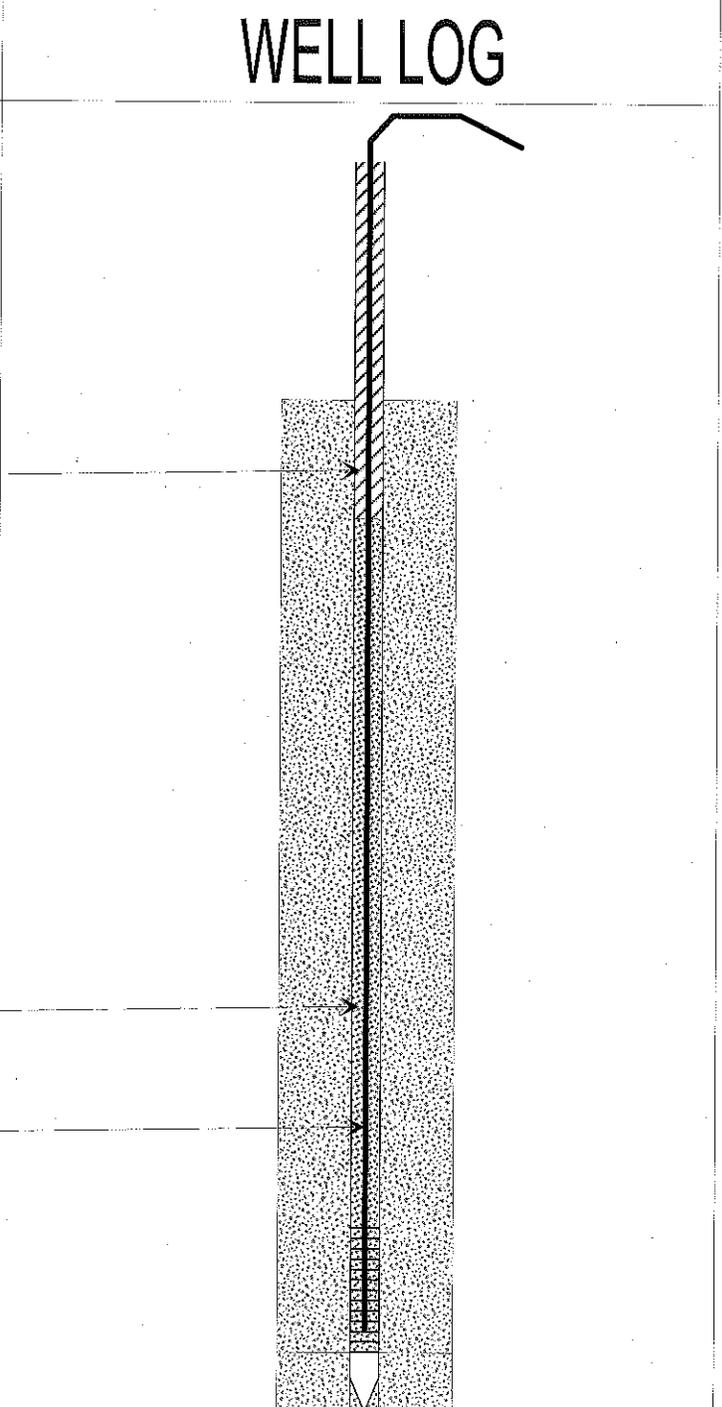
30-40 Sand fine to medium light brown, Becomes lighter in color with depth

PROJECT NAME: Long Island City		BORING NUMBER: VP-1	
PROJECT ADDRESS: 27-01 41st Avenue Long Island City, NY 11101		BORING LOCATION: North Center of Subject Property	
DRILLING CONTRACTOR: JC Broderick & Associates, Inc.		TOTAL DEPTH: 8 Feet bsg	MEASURING POINT: Ground Surface
DRILLING METHOD: 2.125 inch Direct Push Rods		GROUND SURFACE ELEVATION: 39 Feet Above Sea Level	DATE COMPLETED: 3/14/13
DRILLING EQUIPMENT: Geoprobe® 7720DT		DEPTH TO GROUNDWATER: Not Encountered	
SAMPLING METHOD: N/A		RESPONSIBLE PROFESSIONAL: Jeffrey Nannini	LOGGED BY: Adam Hutchinson
HAMMER WEIGHT: N/A	DROP: N/A		



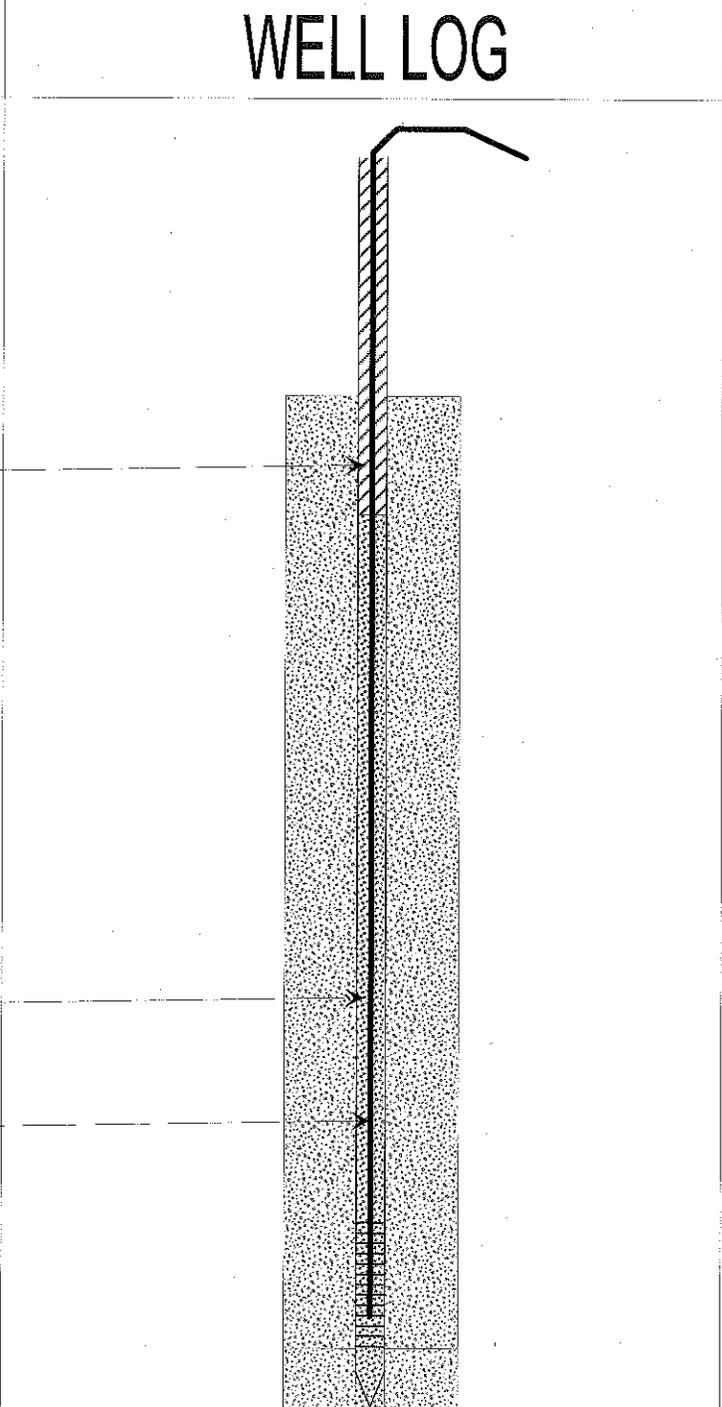
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PROJECT ADDRESS: 27-01 41st Avenue Long Island City, NY 11101		
DRILLING CONTRACTOR: JC Broderick & Associates, Inc.	BORING LOCATION: North Corner of Subject Property	
DRILLING METHOD: 2.125 inch Direct Push Rods	TOTAL DEPTH: 8 Feet bsg	MEASURING POINT: Ground Surface
DRILLING EQUIPMENT: Geoprobe® 7720DT	GROUND SURFACE ELEVATION: 39 Feet Above Sea Level	DATE COMPLETED: 3/14/13
SAMPLING METHOD: N/A	DEPTH TO GROUNDWATER: Not Encountered	
HAMMER WEIGHT: N/A	DROP: N/A	RESPONSIBLE PROFESSIONAL: Jeffrey Nannini
		LOGGED BY: Adam Hutchinson

DEPTH (feet)	WELL CONSTRUCTION
2.0	
1.0	
0.0	Surface Grade
1.0	Bentonite (Within Outer Well)
2.0	Clean Sand Backfill
3.0	
4.0	1" diameter Schedule 40 PVC Riser
5.0	#1 Morie Sand Pack (Within Outer Well)
6.0	1/4" x 3/8" Polyethelene Tubing
7.0	1" diameter 0.020" Slot, Schedule 40 PVC Screen
8.0	End Cap



PROJECT NAME: Long Island City		BORING NUMBER: VP-3	
PROJECT ADDRESS: 27-01 41st Avenue Long Island City, NY 11101			
DRILLING CONTRACTOR: JC Broderick & Associates, Inc.		BORING LOCATION: South Corner of Subject Property	
DRILLING METHOD: 2.125 inch Direct Push Rods	TOTAL DEPTH: 8 Feet bsg	MEASURING POINT: Ground Surface	
DRILLING EQUIPMENT: Geoprobe® 7720DT	GROUND SURFACE ELEVATION: 39 Feet Above Sea Level	DATE COMPLETED: 3/14/13	
SAMPLING METHOD: N/A	DEPTH TO GROUNDWATER: Not Encountered		
HAMMER WEIGHT: N/A	DROP: N/A	RESPONSIBLE PROFESSIONAL: Jeffrey Nannini	LOGGED BY: Adam Hutchinson

DEPTH (feet)	WELL CONSTRUCTION
2.0	
1.0	
0.0	Surface Grade
1.0	Bentonite (Within Outer Well)
2.0	Clean Sand Backfill
3.0	
4.0	1" diameter Schedule 40 PVC Riser
5.0	#1 Morie Sand Pack (Within Outer Well)
6.0	1/4" x 3/8" Polyethylene Tubing
7.0	1" diameter 0.020" Slot, Schedule 40 PVC Screen
8.0	End Cap



PROJECT NAME: Long Island City		BORING NUMBER: VP-4	
PROJECT ADDRESS: 27-01 41st Avenue Long Island City, NY 11101			
DRILLING CONTRACTOR: JC Broderick & Associates, Inc.		BORING LOCATION: South Center of Subject Property	
DRILLING METHOD: 2.125 inch Direct Push Rods	TOTAL DEPTH: 8 Feet bsg	MEASURING POINT: Ground Surface	
DRILLING EQUIPMENT: Geoprobe® 7720DT	GROUND SURFACE ELEVATION: 39 Feet Above Sea Level	DATE COMPLETED: 3/14/13	
SAMPLING METHOD: N/A		DEPTH TO GROUNDWATER: Not Encountered	
HAMMER WEIGHT: N/A	DROP: N/A	RESPONSIBLE PROFESSIONAL: Jeffrey Nannini	LOGGED BY: Adam Hutchinson

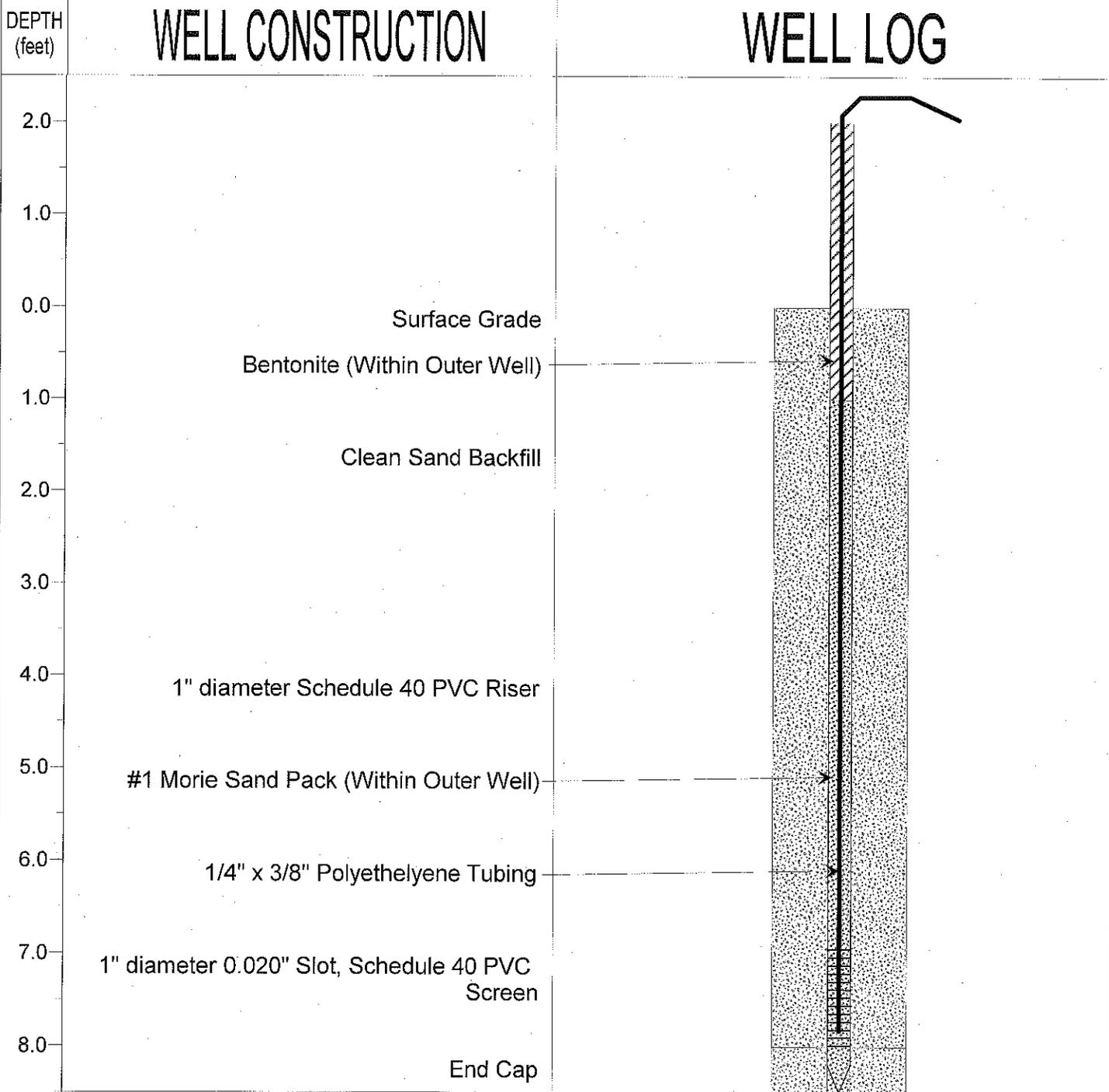
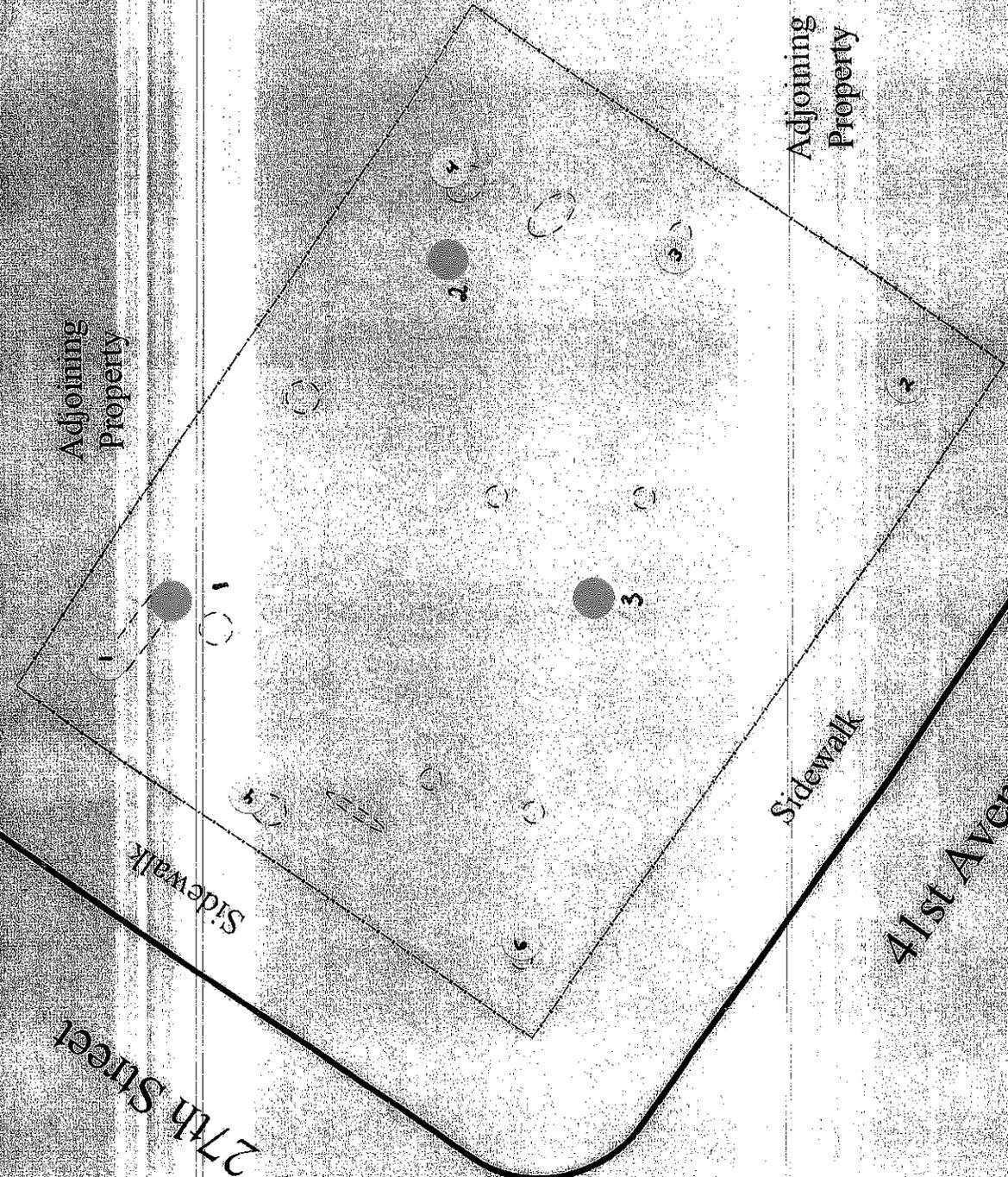


Figure 10 site map showing the location of the three groundwater monitoring wells



J.C. BRODERICK & Associates
 Environmental
 Consulting and Testing
 4975 Expressway Drive North
 Hauppauge, NY 11788
 Phone: (631) 584-3493
 Fax: (631) 584-3395

NOTES:
 27-01 41st Avenue
 Long Island City, NY
 11101

Field Drawing
 of
 Limited
 Subsurface
 Inspection

Scale: N.T.S.
 Project: 13-25644 - 10-2013

Drawn By: J.V.M.
 Checked By: S.V.M.
 Date: 10/1/13

Sheet No. 1

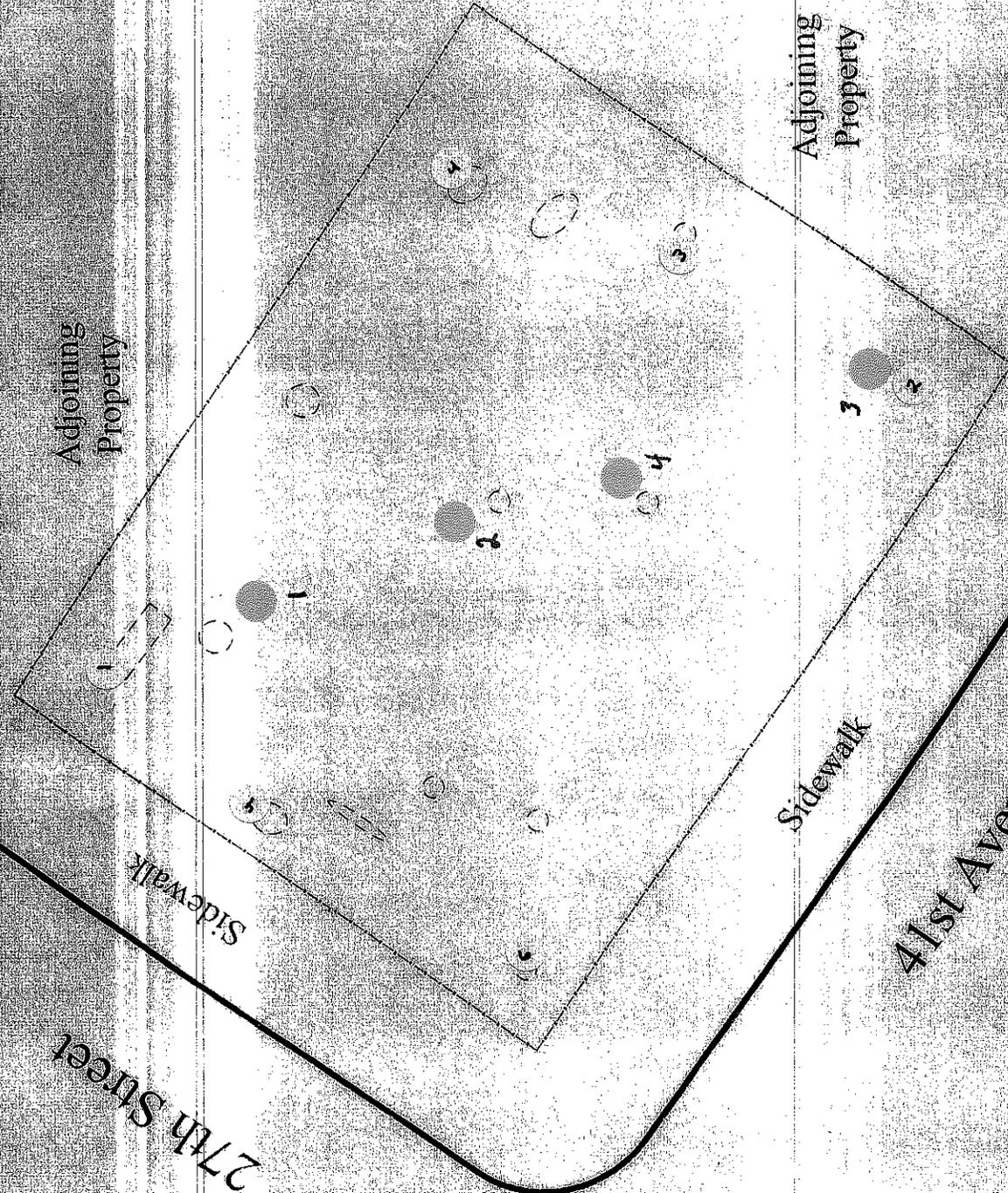
JCB LEGEND

- SUSPECT SUBSURFACE ANOMALY
- VARIOUS FENCING

PROJECT: NORTH

Soil Boring

Figure 1.1 Site map showing the locations of the four soil vapor sampling points



J.C. BRODERICK & ASSOCIATES
 Environmental
 Consulting and Testing
 4775 Expressway Drive North
 Flushing, NY 11378
 Phone: (631) 544-4492
 Fax: (631) 584-3395

NOTES:
 27-01 41st Avenue
 Long Island City, NY
 11101

Field Drawing
 of
 Limited
 Subsurface
 Inspection

Scale: Project No. Date
 N.T.S. 13-25-00 03-25-03

Drawn By: Checked By: Title
 JUAN SUAN 1.01

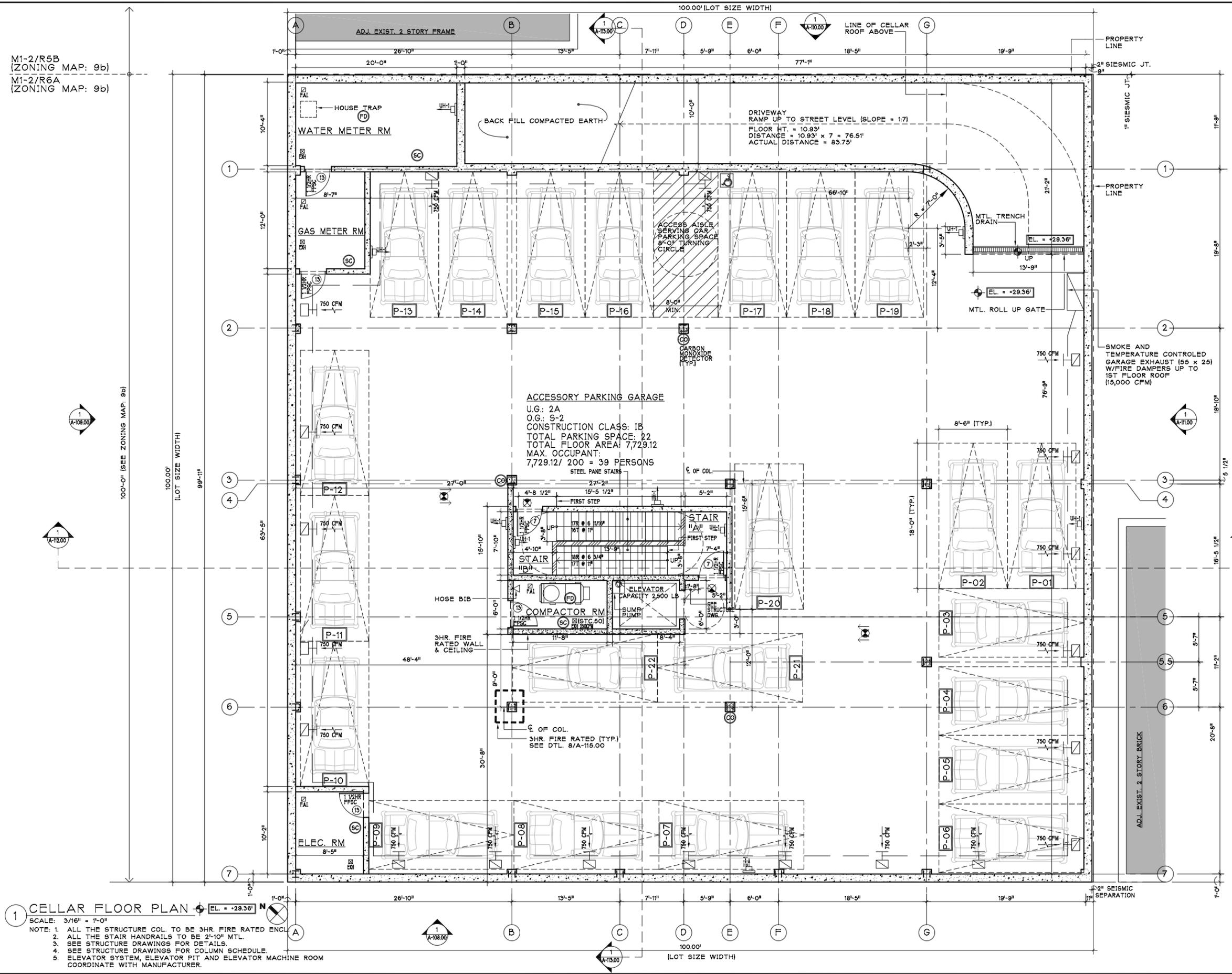
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JCB LEGEND

- (Solid Circle) SUSPECT SUBSURFACE ANOMALY
- (Dashed Circle) VARIOUS BORING

PROJECT: 41 NORTH

Soil Boring

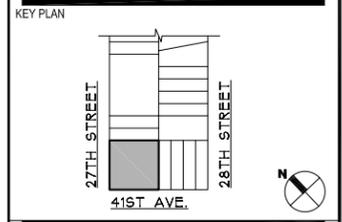


1 CELLAR FLOOR PLAN EL. = +29.36'

SCALE: 3/16" = 1'-0"

NOTE: 1. ALL THE STRUCTURE COL. TO BE 3HR. FIRE RATED ENCL.
2. ALL THE STAIR HANDRAILS TO BE 2'-10" MTL.
3. SEE STRUCTURE DRAWINGS FOR DETAILS.
4. SEE STRUCTURE DRAWINGS FOR COLUMN SCHEDULE.
5. ELEVATOR SYSTEM, ELEVATOR PIT AND ELEVATOR MACHINE ROOM COORDINATE WITH MANUFACTURER.

DOB # 420780355



REV.#	DATE	DESCRIPTION

PROJECT
27-05 41ST AVE.
LONG ISLAND CITY, NEW YORK

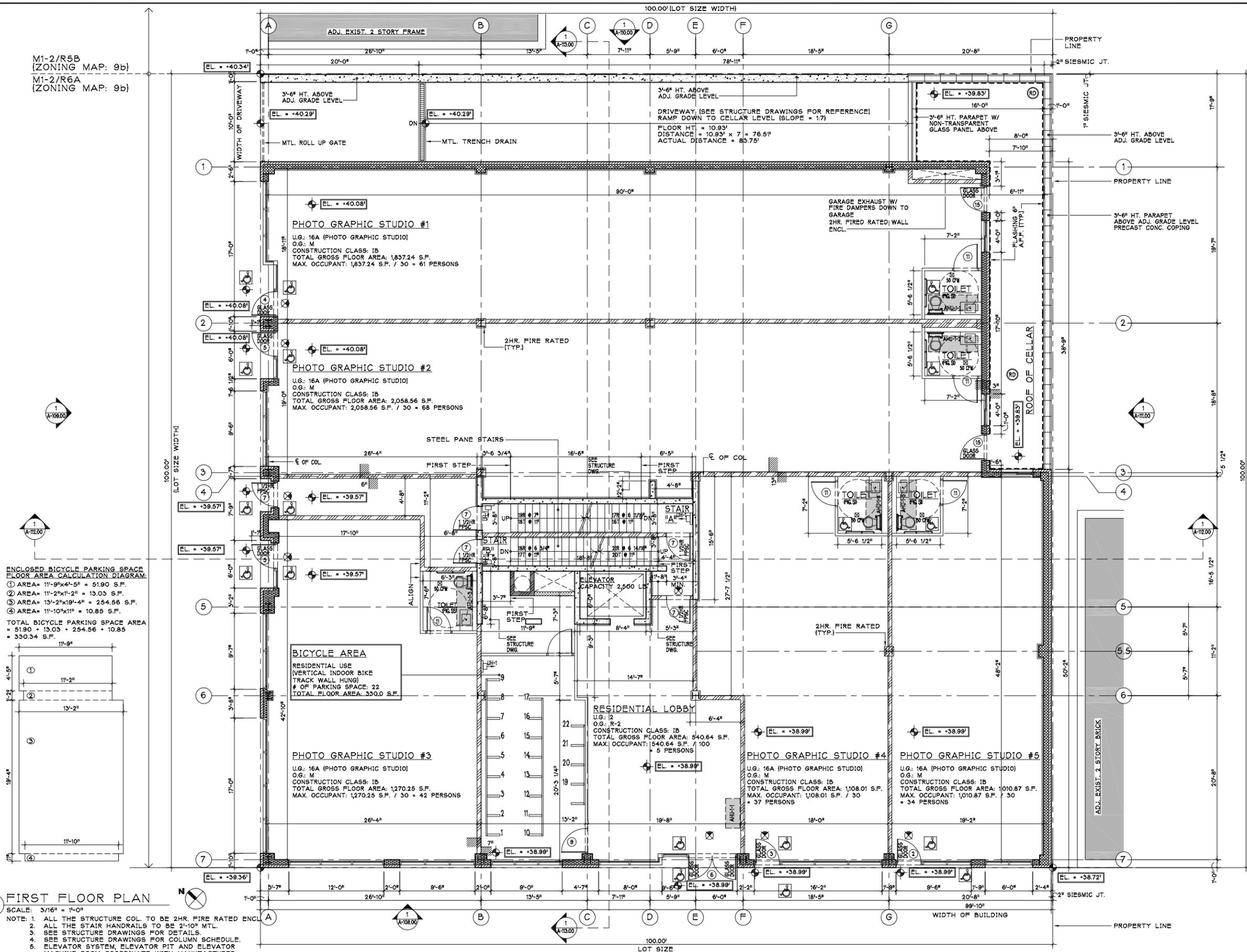
FLOOR PLAN
CELLAR

SEAL & SIGNATURE

DATE: 08/02/12
PROJECT No:
DRAWING BY: SY
CHK BY: MK
DWG No:

A-101.00

CADD FILE No: 6 OF 37



DOB # 420780355

KEY PLAN



REV.#	DATE	DESCRIPTION

PROJECT

27-05 41ST AVE.
LONG ISLAND CITY, NEW YORK

FLOOR PLAN
FIRST FLOOR

SEAL & SIGNATURE	DATE: 08/02/12
	PROJECT No:
	DRAWING BY: SY
	CHK BY: MK
	DWG No:

A-102.00

CADD FILE No: 07 OF 37

M1-2/R5B
[ZONING MAP: 9b]
M1-2/R6A
[ZONING MAP: 9b]

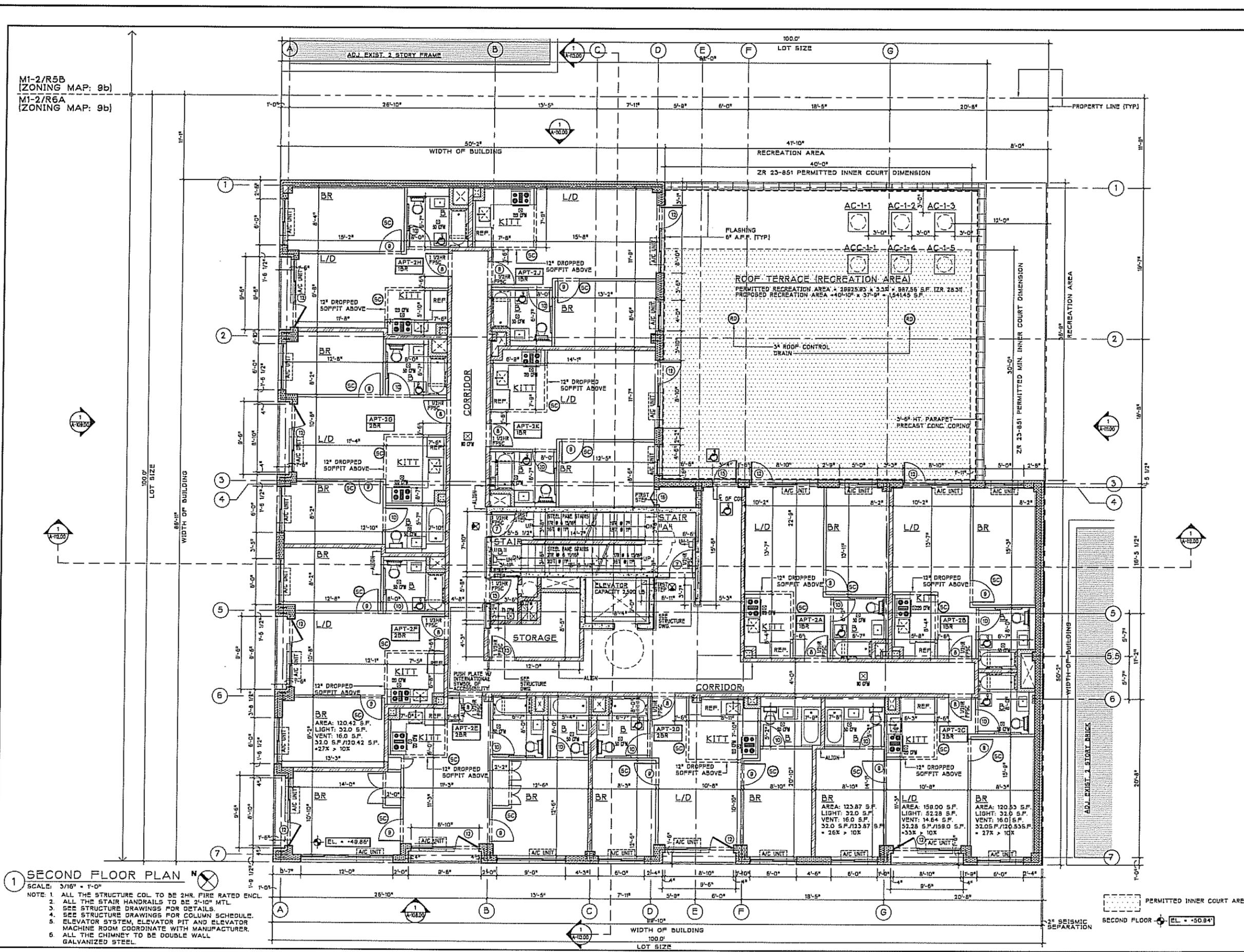


MICHAEL KANG
ARCHITECT, PLLC.

Architectural, Interior Design, Zoning & Building Code Expertise
37-01 Main Street, Suite #10A, Flushing, NY 11354
michaelkang@nyu.edu

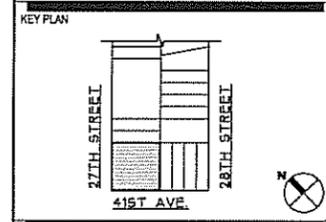
Tel: (718) 353-2329
Fax: (718) 661-1619

MICHAEL KANG, RA



1 SECOND FLOOR PLAN
SCALE: 3/16" = 1'-0"
NOTE: 1. ALL THE STRUCTURE COL. TO BE 2HR. FIRE RATED ENCL.
2. ALL THE STAIR HANDRAILS TO BE 2'-10" MTL.
3. SEE STRUCTURE DRAWINGS FOR DETAILS.
4. SEE STRUCTURE DRAWINGS FOR COLUMN SCHEDULE.
5. ELEVATOR SYSTEM, ELEVATOR PIT AND ELEVATOR MACHINE ROOM COORDINATE WITH MANUFACTURER.
6. ALL THE CHIMNEY TO BE DOUBLE WALL GALVANIZED STEEL.

DOB #420780355



REV#	DATE	DESCRIPTION

PROJECT
27-05 41ST AVE.
LONG ISLAND CITY, NEW YORK

FLOOR PLAN
SECOND FLOOR

SEAL & SIGNATURE
DATE: 06/02/12
PROJECT No
DRAWING BY: SY
CHK BY: MK
DWG No
A-103.00
CADD FILE No: 08DF 37

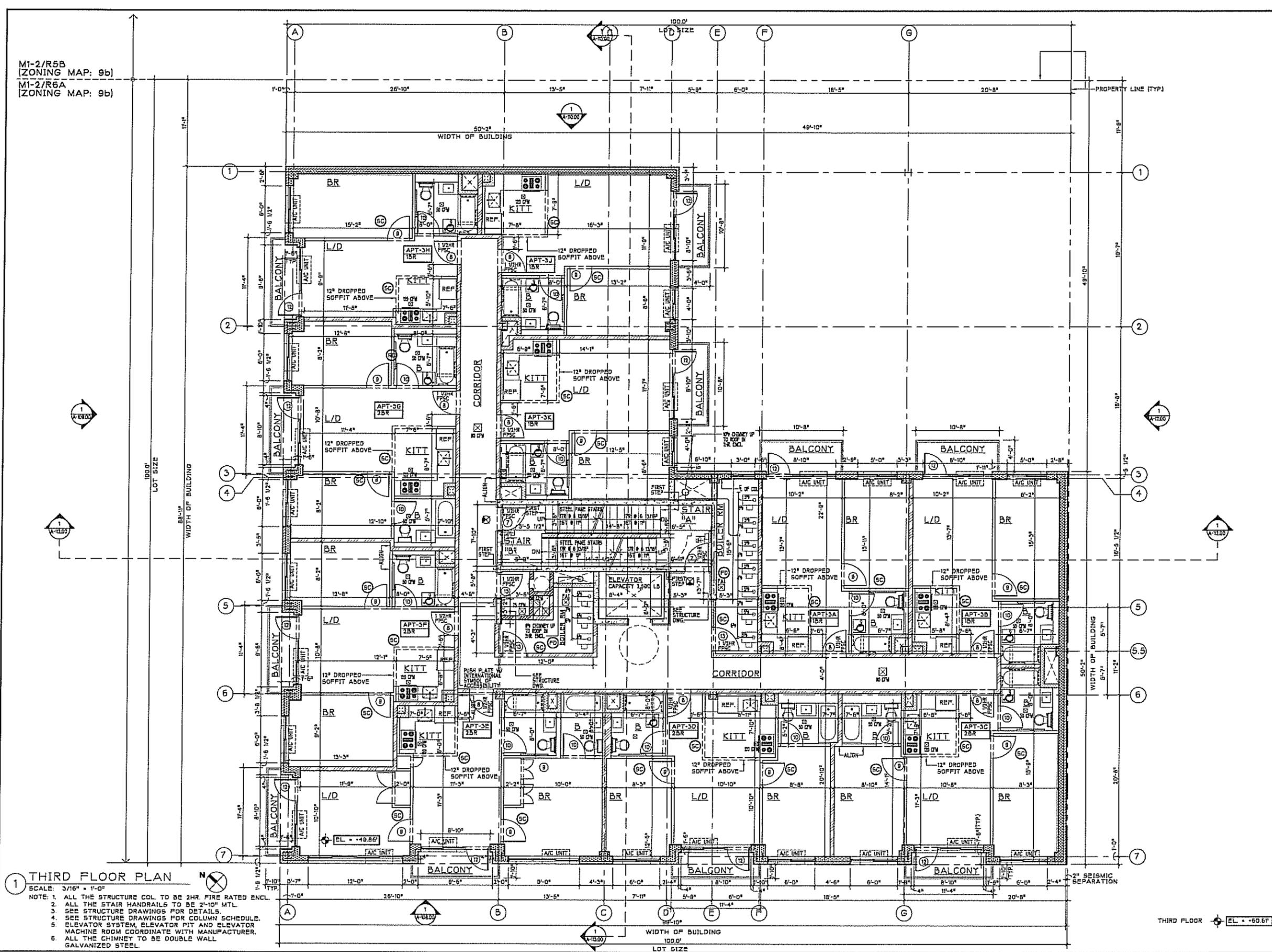
M1-2/R5B
[ZONING MAP: 9b]
M1-2/R6A
[ZONING MAP: 9b]



Architectural, Interior Design, Zoning & Building Code Expertise
37-01 Main Street, Suite #10K, Flushing, NY 11354
michaelkang@yahoo.com

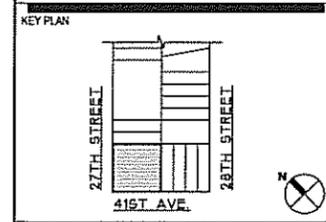
Tel: (718) 353-2929
Fax: (718) 661-1619

MICHAEL KANG, RA



1 THIRD FLOOR PLAN
SCALE: 3/16" = 1'-0"
NOTE: 1. ALL THE STRUCTURE COL TO BE 2HR. FIRE RATED ENCL.
2. ALL THE STAIR HANDRAILS TO BE 2'-10" MTL.
3. SEE STRUCTURE DRAWINGS FOR DETAILS.
4. SEE STRUCTURE DRAWINGS FOR COLUMN SCHEDULE.
5. ELEVATOR SYSTEM, ELEVATOR PIT AND ELEVATOR MACHINE ROOM COORDINATE WITH MANUFACTURER.
6. ALL THE CHIMNEY TO BE DOUBLE WALL GALVANIZED STEEL.

DOB #420780355



REV #	DATE	DESCRIPTION

PROJECT
27-05 41ST AVE.
LONG ISLAND CITY, NEW YORK

FLOOR PLAN
THIRD FLOOR

SEAL & SIGNATURE	DATE: 06/02/12
	PROJECT No
	DRAWING BY: SY
	CHK BY: MK DWG No

A-104.00

CADD FILE No 08 OF 37

M1-2/R5B
[ZONING MAP: 9b]
M1-2/R6A
[ZONING MAP: 9b]

ZR 25-693 (a)
NOT EXCEED A HEIGHT OF 35 FEET
WITHIN 25 FEET OF ADJOINING
DISTRICT R5

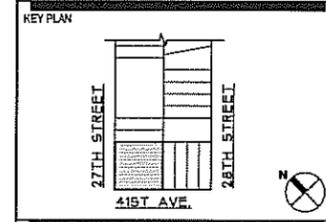
MA
MICHAEL KANG
ARCHITECT, PLLC.

Architectural, Interior Design, Zoning & Building Code Expertise
37-01 Main Street, Suite 4104, Flushing, NY 11354
michaelkang@yahoo.com

Tel: (718) 353-3229
Fax: (718) 661-1619

MICHAEL KANG, RA

DOB # 420780355



REV #	DATE	DESCRIPTION

PROJECT
27-05 41ST AVE.
LONG ISLAND CITY, NEW YORK

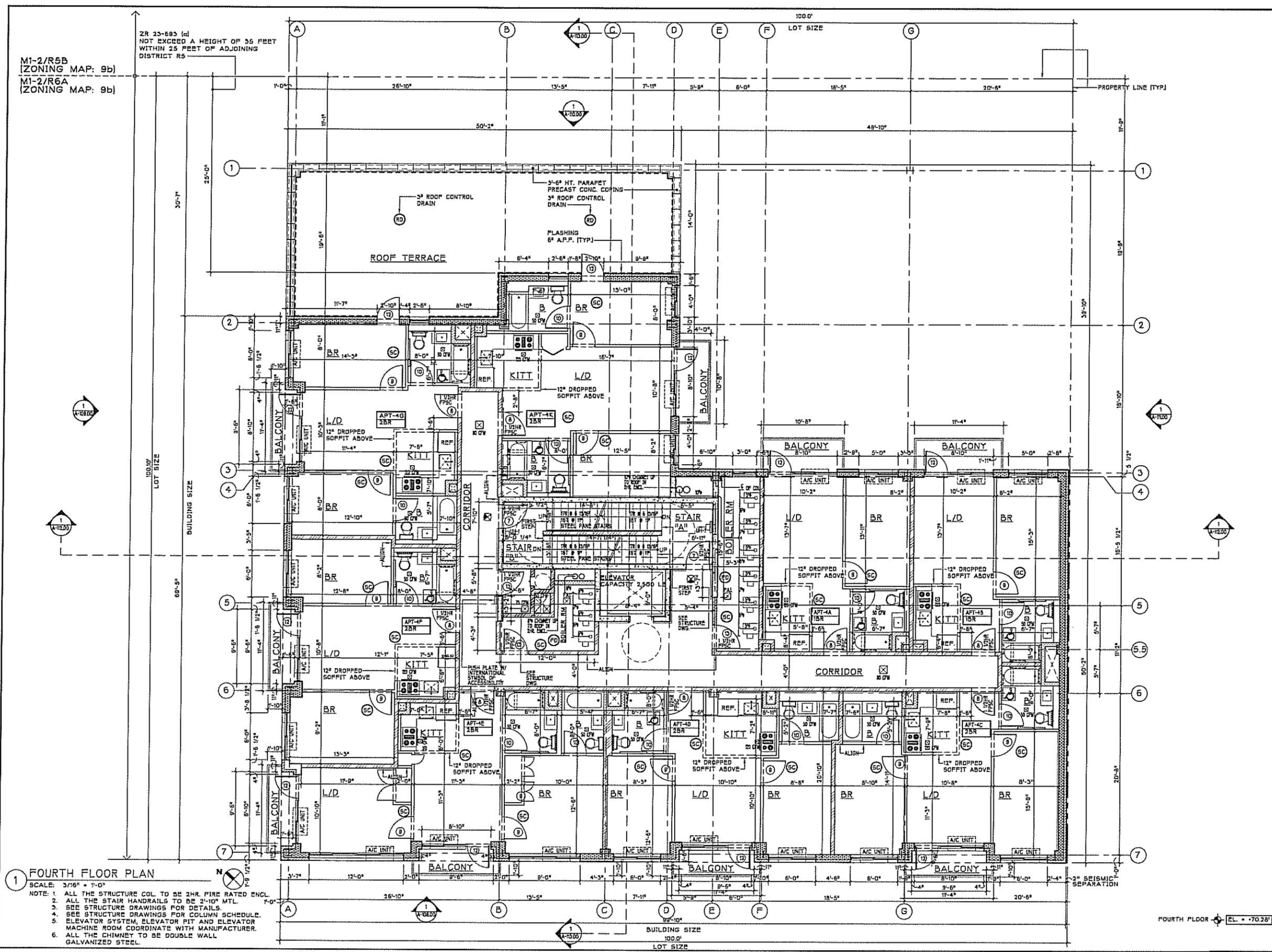
FLOOR PLAN
FOURTH FLOOR

SEAL & SIGNATURE	DATE: 08/02/12
	PROJECT No.
	DRAWING BY SY
	CHK BY: MK
	DWG No.

A-105.00

CADD FILE No. 10 OF 37

- 1** FOURTH FLOOR PLAN
- SCALE: 3/16" = 1'-0"
- ALL THE STRUCTURE COL. TO BE 3HR. FIRE RATED ENCL.
 - ALL THE STAIR HANDRAILS TO BE 2"-10" MTL.
 - SEE STRUCTURE DRAWINGS FOR DETAILS.
 - SEE STRUCTURE DRAWINGS FOR COLUMN SCHEDULE.
 - ELEVATOR SYSTEM, ELEVATOR PIT AND ELEVATOR MACHINE ROOM COORDINATE WITH MANUFACTURER.
 - ALL THE CHIMNEY TO BE DOUBLE WALL GALVANIZED STEEL.



FOURTH FLOOR EL. = +70.28'

M1-2/R5B
[ZONING MAP: 9b]
M1-2/R6A
[ZONING MAP: 9b]

ZR 23-693 (a)
NOT EXCEED A HEIGHT OF 35 FEET
WITHIN 25 FEET OF ADJOINING
DISTRICT R5

MKA
MICHAEL KANG
ARCHITECT, PLLC.

Architectural, Interior Design, Zoning & Building Code Expertise
17-01 Main Street, Suite #104, Flushing, NY 11354
michaelkang@yahoo.com

Tel: (718) 353-2929
Fax: (718) 661-1419

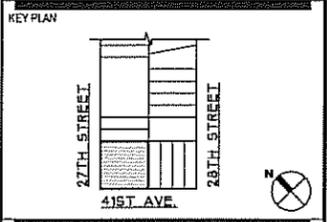
MICHAEL KANG, RA

FIFTH & SIXTH FLOOR PLAN

- SCALE: 3/16" = 1'-0"
1. ALL THE STRUCTURE COL TO BE 2HR. FIRE RATED ENCL.
 2. ALL THE STAIR HANDRAILS TO BE 2'-10" MTL.
 3. SEE STRUCTURE DRAWINGS FOR DETAILS.
 4. SEE STRUCTURE DRAWINGS FOR COLUMN SCHEDULE.
 5. ELEVATOR SYSTEM, ELEVATOR PIT AND ELEVATOR MACHINE ROOM COORDINATE WITH MANUFACTURER.
 6. ALL THE CHIMNEY TO BE DOUBLE WALL GALVANIZED STEEL.

SIXTH FLOOR [EL. +88.62']
FIFTH FLOOR [EL. +79.85']

DOB # 420780355



REV #	DATE	DESCRIPTION

PROJECT
27-05 41ST AVE.
LONG ISLAND CITY, NEW YORK

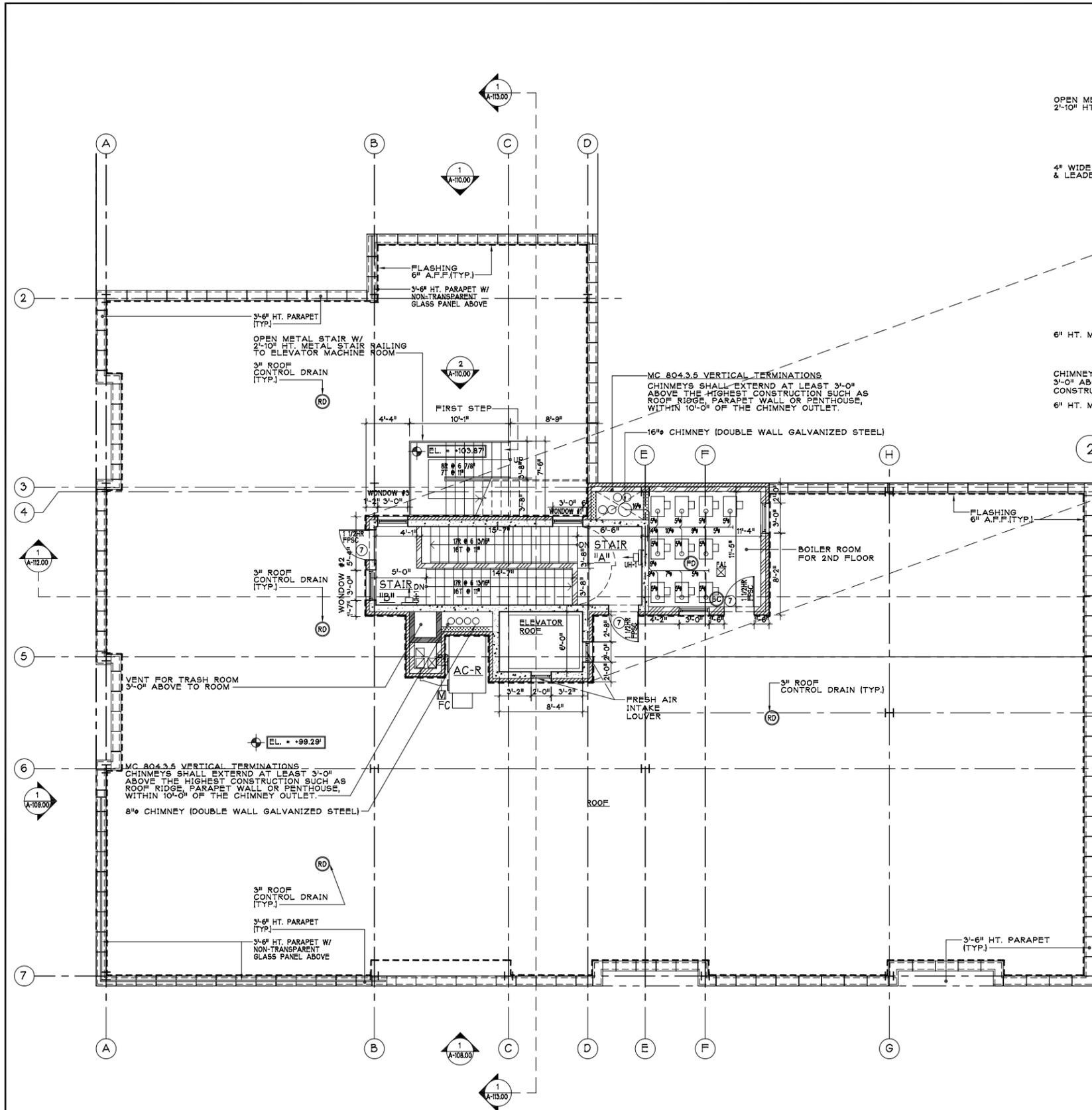
FLOOR PLAN
FIFTH & SIXTH FLOOR

SEAL & SIGNATURE

DATE: 06/02/12
PROJECT No.
DRAWING BY: SY
CHK BY: MK
DWG No.

A-106.00

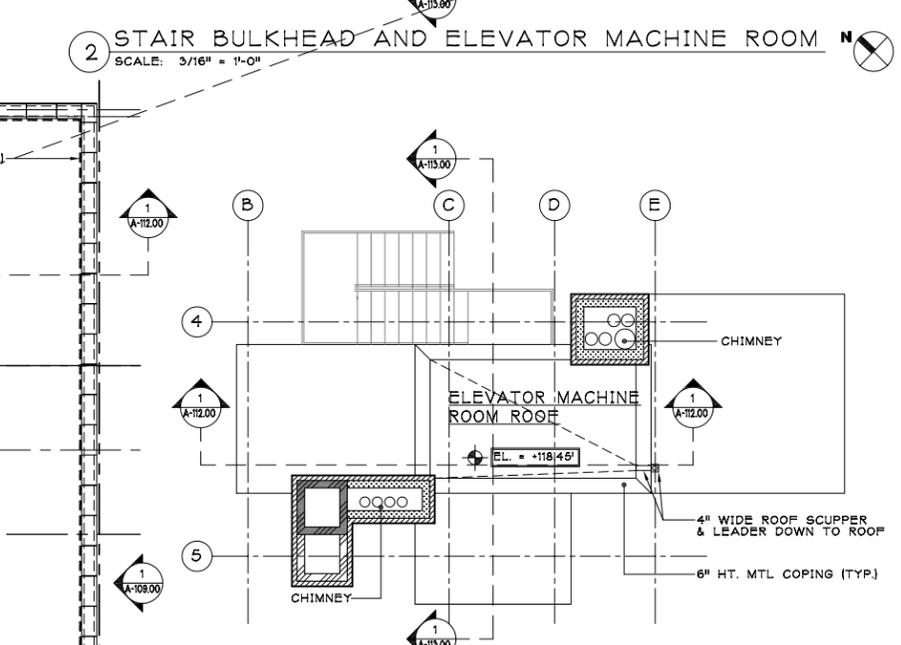
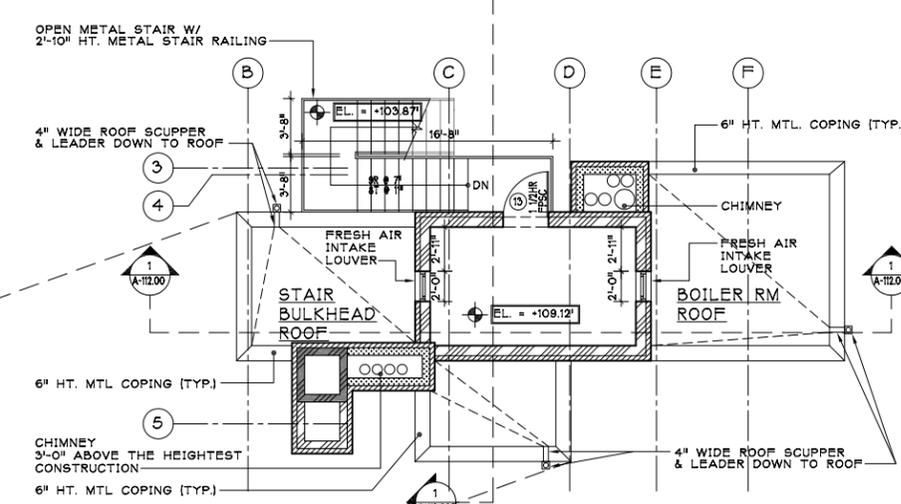
CAD FILE No. 11 OF 37



1 ROOF FLOOR PLAN
SCALE: 3/16" = 1'-0"
NOTE: 1. ALL THE STRUCTURE COL. TO BE 2HR. FIRE RATED ENCL.
2. ALL THE STAIR HANDRAILS TO BE 2'-10" MTL.
3. SEE STRUCTURE DRAWINGS FOR DETAILS.
4. SEE STRUCTURE DRAWINGS FOR COLUMN SCHEDULE.
5. ELEVATOR SYSTEM, ELEVATOR PIT AND ELEVATOR MACHINE ROOM COORDINATE WITH MANUFACTURER.

ROOF AREA CALCULATION

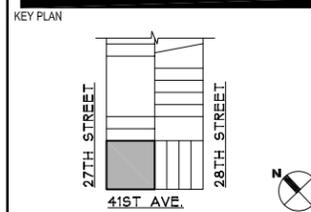
ROOF AREA	= 5,759.44 S.F.
ROOF STRUCTURE AREA	= 558.43 S.F.
PERMITTED ROOF STRUCTURE AREA OF ROOF AREA	= 5,759.44 S.F. X 1/3 = 1,919.81 S.F.
PROPOSED ROOF STRUCTURE AREA OF ROOF AREA	= 558.43 S.F. < 1,919.81 S.F. O.K.



SMOKE VENT DIMENSIONS CALCULATION (BC 910.5.2)

STAIR	STAIR SHAFT AREA (S.F.)	VENTING AREA		OPENING AREA	
		REQUIRED	PROPOSED	REQUIRED	PROPOSED
A	98.95	98.95 S.F. x 3.5X = 3.46 S.F.	WINDOW #1 AREA = 20.0 S.F. LOUVER #1 AREA = 6.67 S.F. TOTAL VENTING AREA #1: 20.0 S.F. / 2 + 6.67 S.F. = 16.67 S.F. > 3.46 S.F. O.K.	3.46 S.F. / 3 = 1.15 S.F.	WINDOW #1 OPENING AREA = 20.0 S.F. / 2 + 10.0 S.F. LOUVER #1 AREA = 6.67 S.F. TOTAL OPENING AREA #1: 10.0 S.F. + 6.67 S.F. = 16.67 S.F. > 1.15 S.F. O.K.
B	88.87	88.87 S.F. x 3.5X = 3.11 S.F.	WINDOW #2 AREA = 15.0 S.F. LOUVER #2 AREA = 5.0 S.F. TOTAL VENTING AREA #2: 15.0 S.F. / 2 + 5.0 S.F. = 12.50 S.F.	3.46 S.F. / 3 = 1.15 S.F.	WINDOW #2 AREA = 15.0 S.F. LOUVER #2 AREA = 5.0 S.F. TOTAL VENTING AREA #2: 15.0 S.F. / 2 + 5.0 S.F. = 12.50 S.F.
			WINDOW #3 AREA = 15.0 S.F. LOUVER #3 AREA = 5.0 S.F. TOTAL VENTING AREA #3: 15.0 S.F. / 2 + 5.0 S.F. = 12.50 S.F.		WINDOW #3 AREA = 15.0 S.F. LOUVER #3 AREA = 5.0 S.F. TOTAL VENTING AREA #3: 15.0 S.F. / 2 + 5.0 S.F. = 12.50 S.F.
			TOTAL VENTING AREA: 12.50 S.F. x 2 = 25 S.F. = 25.0 S.F. > 3.11 S.F.		TOTAL VENTING AREA: 12.50 S.F. x 2 = 25 S.F. = 25.0 S.F. > 1.15 S.F.

DOB # 420780355



REV.#	DATE	DESCRIPTION

PROJECT
27-05 41ST AVE.
LONG ISLAND CITY, NEW YORK

ROOF PLAN

SEAL & SIGNATURE
DATE: 08/02/12
PROJECT No:
DRAWING BY: SY
CHK BY: MK
DWG No:
A-107.00
CADO FILE No: 12 OF 37

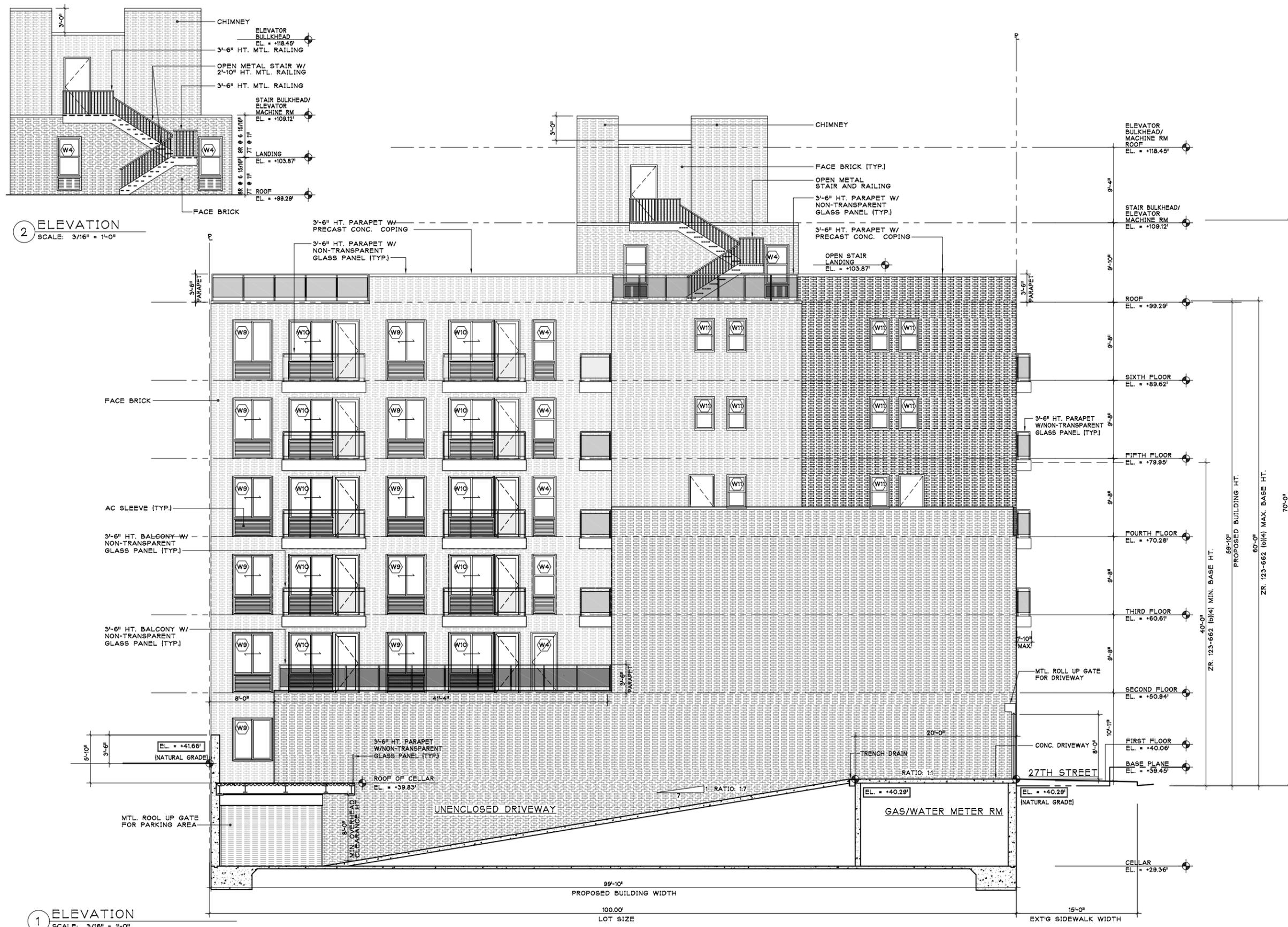


MICHAEL KANG
ARCHITECT, PLLC.

Architectural, Interior Design, Zoning & Building Code Expertise
37-01 Main Street, Suite #308, Flushing, NY 11354
michaelkangra@yahoo.com

Tel: (718) 353-2929
Fax: (718) 661-1619

MICHAEL KANG, RA



2 ELEVATION
SCALE: 3/16" = 1'-0"

1 ELEVATION
SCALE: 3/16" = 1'-0"

DOB # 420780355



REV.#	DATE	DESCRIPTION

PROJECT
27-05 41ST AVE.
LONG ISLAND CITY, NEW YORK

ELEVATION

SEAL & SIGNATURE	DATE: 08/02/12
	PROJECT No:
	DRAWING BY: SY
	CHK BY: MK
A-110.00	DWG No:
	CADO FILE No: 15 OF 37

23-62(d) PERMITTED OBSTRUCTIONS
STAIR BULKHEAD OR ELEVATOR BULKHEAD, EACH SHALL HAVE AN AGGREGATE WIDTH OF STREET WALLS EQUAL TO NOT MORE THAN 30'

ACTUAL STAIR, ELEVATOR BULKHEAD AND ELEVATOR MACHINE ROOM WIDTH = 27'-1 1/2" < 30'-0" O.K.

23-62(d) STAIR BULKHEAD OR ELEVATOR BULKHEAD AGGREGATE AREA EACH SHALL NOT EXCEED A FIGURE EQUAL TO FOUR TIMES THE WIDTH, IN FEET, OF THE STREET WALL OF THE BLDG. FACING SUCH FRONTAGE

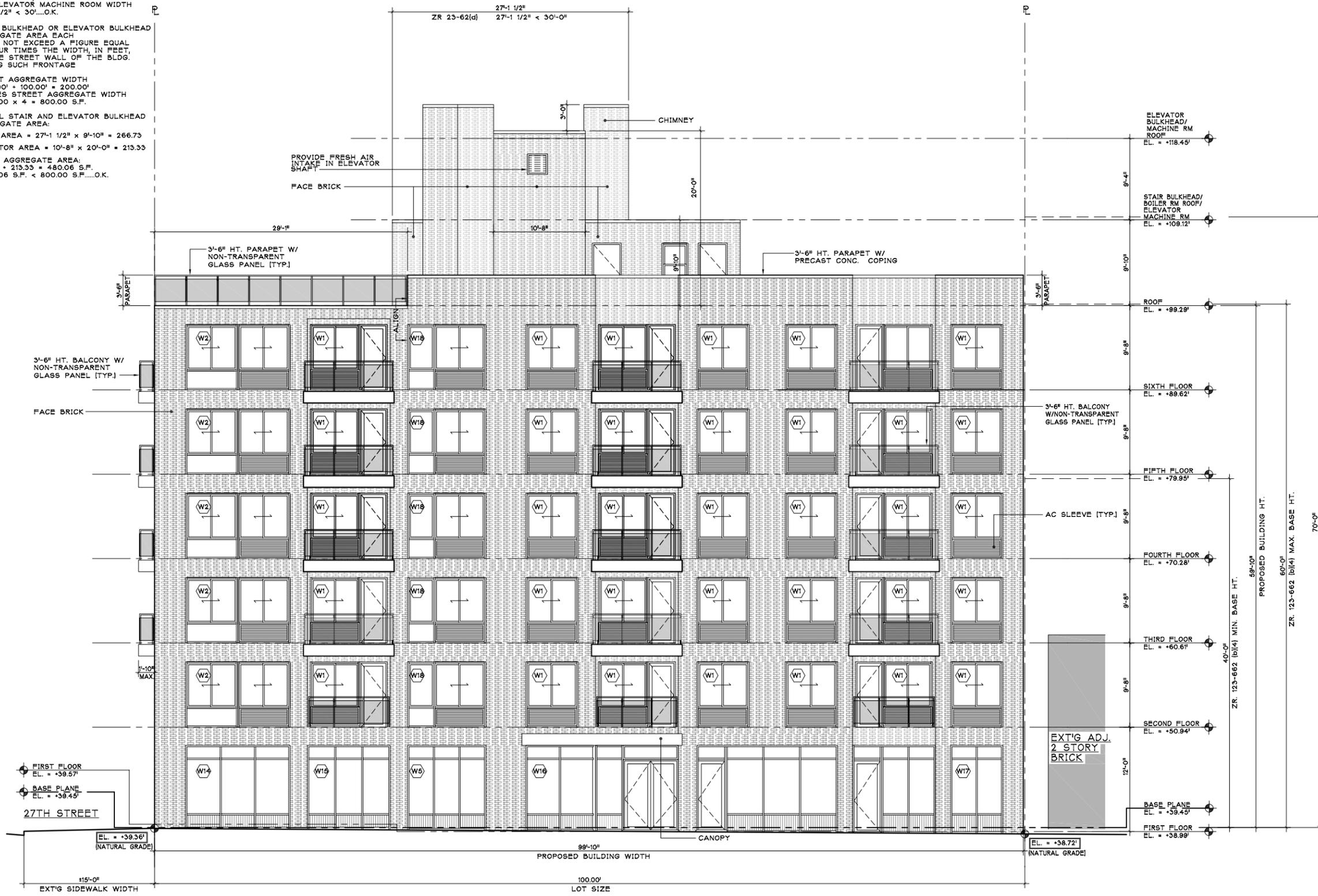
STREET AGGREGATE WIDTH = 100.00' + 100.00' = 200.00'
4 TIMES STREET AGGREGATE WIDTH = 200.00 x 4 = 800.00 S.F.

ACTUAL STAIR AND ELEVATOR BULKHEAD AGGREGATE AREA:

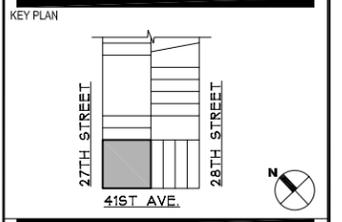
STAIR AREA = 27'-1 1/2" x 9'-10" = 266.73

ELEVATOR AREA = 10'-8" x 20'-0" = 213.33

TOTAL AGGREGATE AREA:
266.73 + 213.33 = 480.06 S.F.
= 480.06 S.F. < 800.00 S.F. O.K.



DOB # 420780355



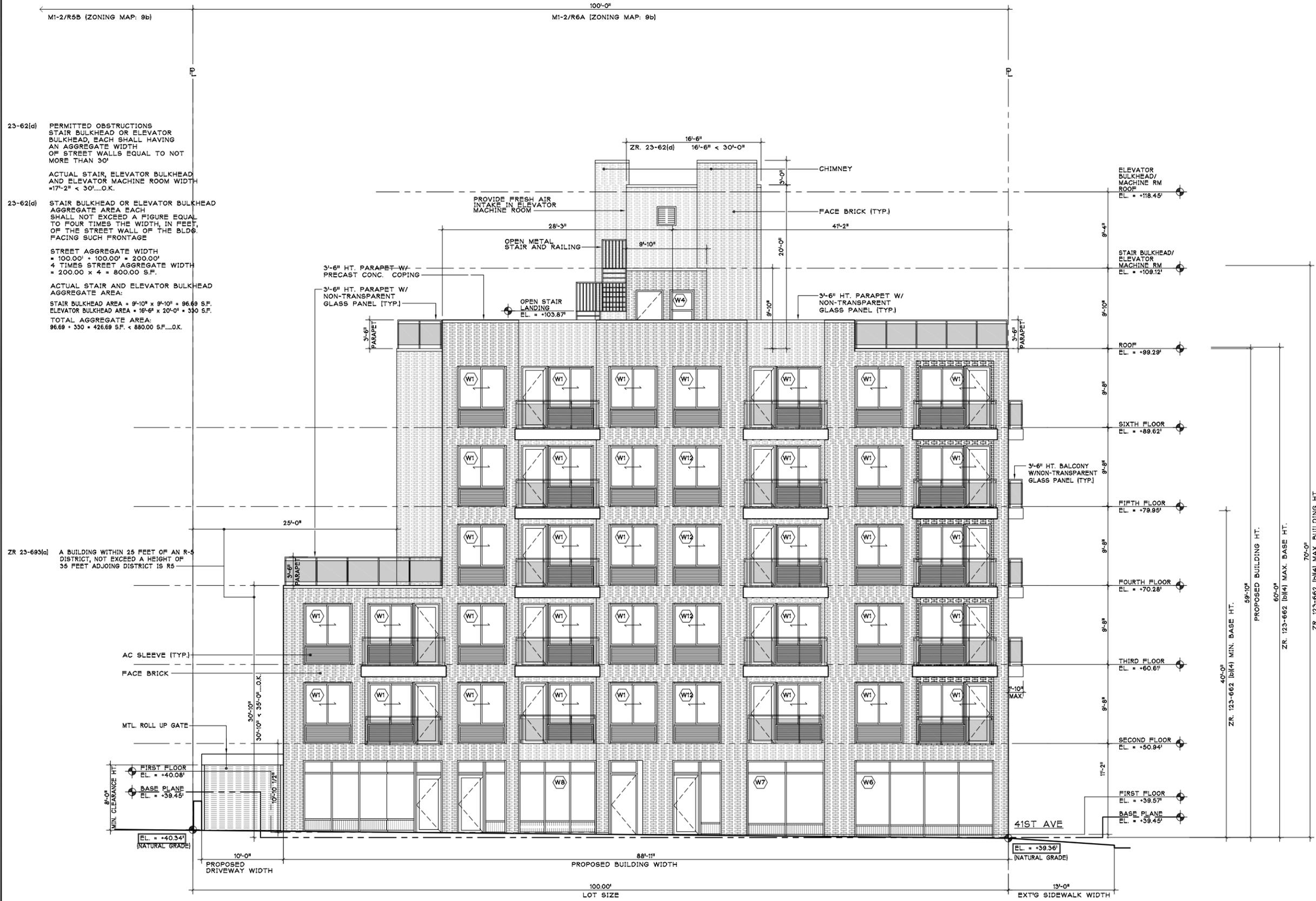
REV.#	DATE	DESCRIPTION

PROJECT
27-05 41ST AVE.
LONG ISLAND CITY, NEW YORK

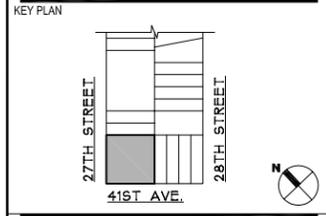
ELEVATION - 41ST AVE.

SEAL & SIGNATURE	DATE: 08/02/12
	PROJECT No:
	DRAWING BY: SY
	CHK BY: MK
	DWG No:
A-108.00	
CADD FILE No: 13 OF 37	

1 ELEVATION - 41ST AVE
SCALE: 3/16" = 1'-0"



DOB # 420780355



REV.#	DATE	DESCRIPTION

PROJECT
27-05 41ST AVE.
LONG ISLAND CITY, NEW YORK
ELEVATION - 27TH STREET

SEAL & SIGNATURE

DATE: 08/02/12
PROJECT No:
DRAWING BY: SY
CHK BY: MK
DWG No:
A-109.00
CADD FILE No: 14 OF 37

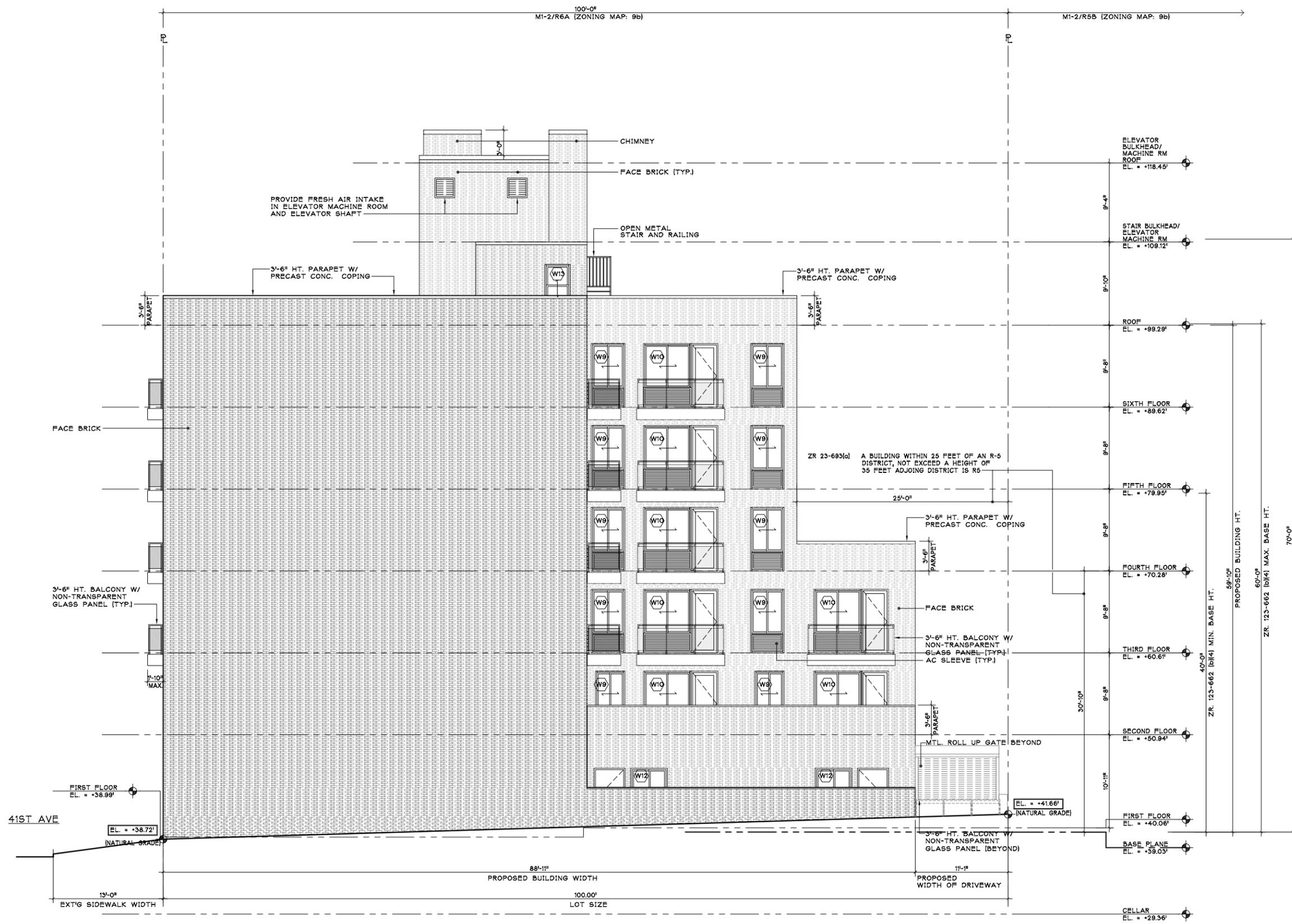
1 ELEVATION - 27TH STREET
SCALE: 3/16" = 1'-0"



**MICHAEL KANG
ARCHITECT, PLLC.**

Architectural, Interior Design, Zoning & Building Code Expertise
37-01 Main Street, Suite #308, Flushing, NY 11354
michaelkangra@yahoo.com
Tel: (718) 353-2929
Fax: (718) 661-1619

MICHAEL KANG, RA



DOB # 420780355



REV.#	DATE	DESCRIPTION

PROJECT
27-05 41ST AVE.
LONG ISLAND CITY, NEW YORK

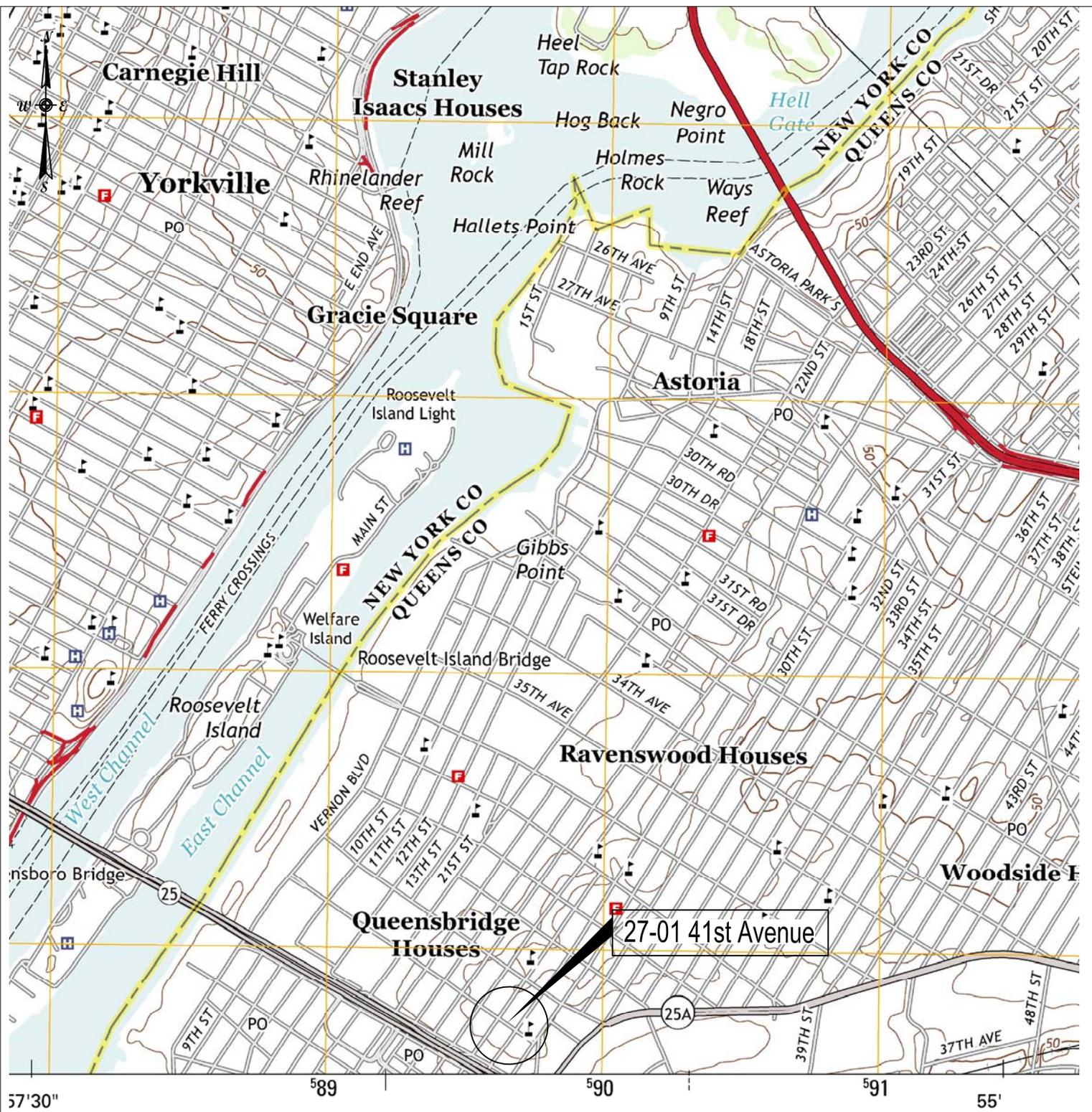
ELEVATION

SEAL & SIGNATURE	DATE: 08/02/12
	PROJECT No:
	DRAWING BY: SY
	CHK BY: MK
	DWG No:

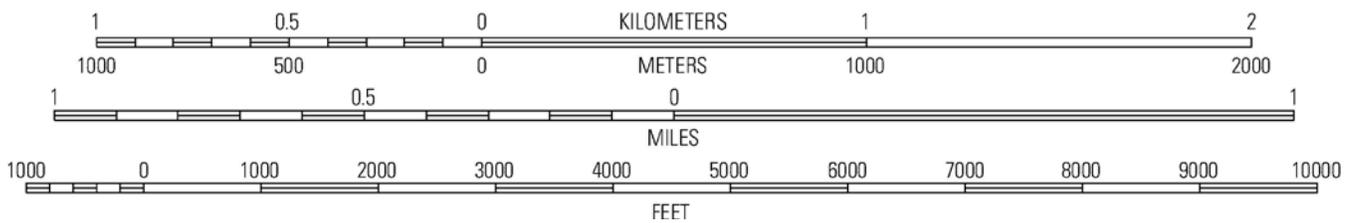
A-111.00

CADD FILE No: 16 OF 37

1 ELEVATION
SCALE: 3/16" = 1'-0"



SCALE 1:24 000



Environmental
Technology
Group, Inc.

300 WHEELER ROAD, SUITE 307, HAUPPAUGE, NEW YORK 11788

Project Name

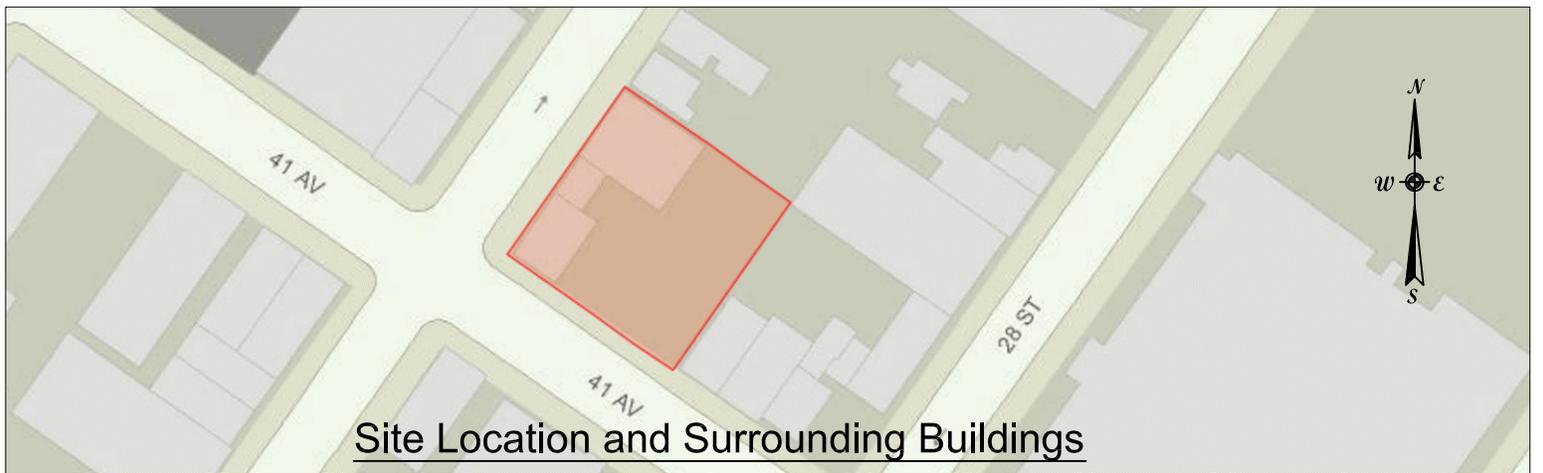
27-01 41st Avenue
Long Island City, NY
Remedial Action Work Plan

Figure Title

Site Location Map
for Long Island City, NY

Figure 23

DWN BY: AJZ
CHK BY: JB
SCALE: AS SHOWN
DATE: 07/11/13



Site Location and Surrounding Buildings



Site Location with Parcel No. & Tax Lot Lines



Site Location with 2010 Aerial Photo



Environmental
Technology
Group, Inc.

300 WHEELER ROAD, SUITE 307, HAUPPAUGE, NEW YORK 11788

Project Name

27-01 41st Avenue
Long Island City, NY
Remedial Action Work Plan

Figure Title

Site Map
for Long Island City, NY

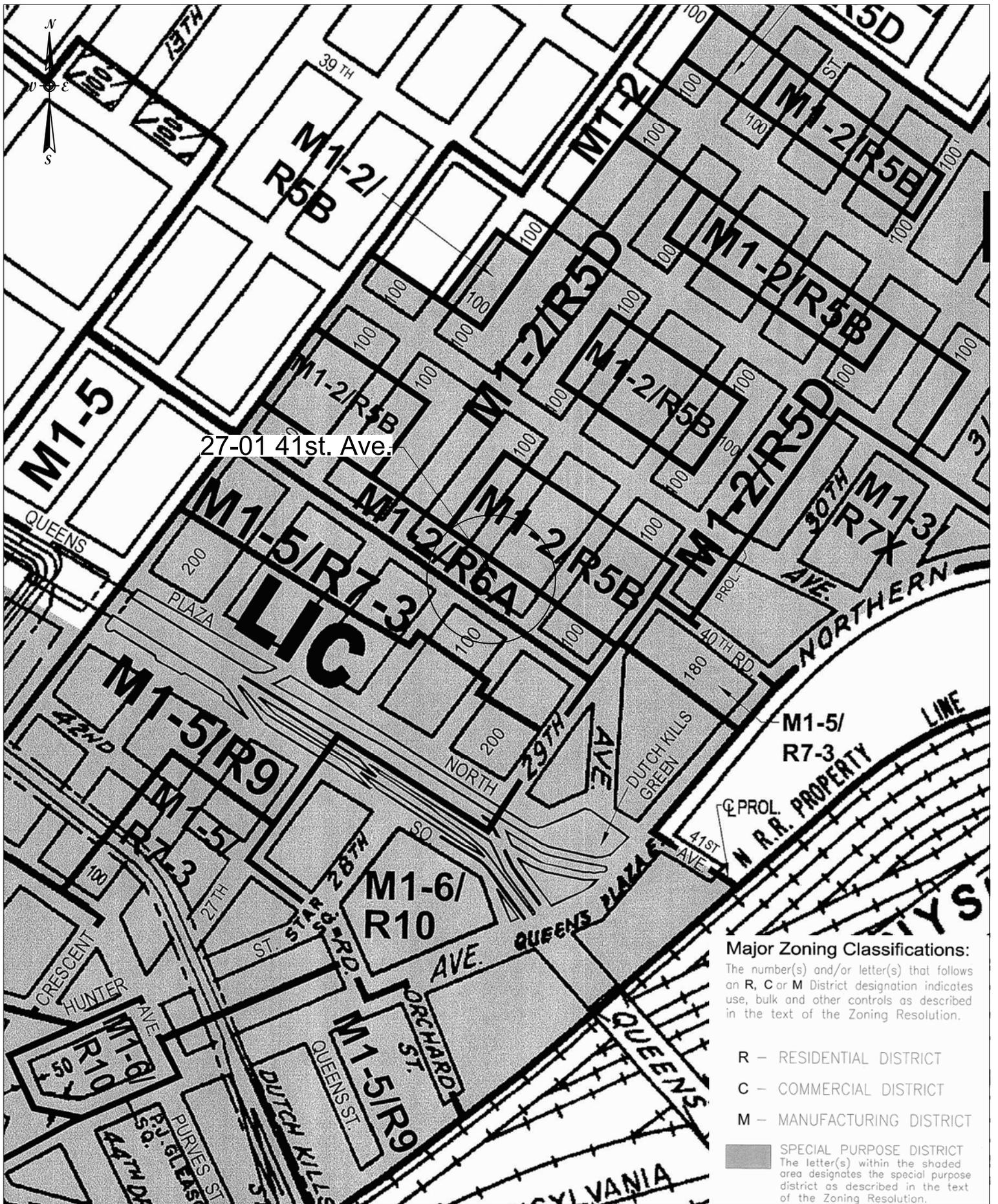
Figure 24

DWN BY: AJZ

CHK BY: JB

SCALE: 1" = 100'

DATE: 07/22/13



27-01 41st Ave.

Major Zoning Classifications:

The number(s) and/or letter(s) that follows an R, C or M District designation indicates use, bulk and other controls as described in the text of the Zoning Resolution.

- R – RESIDENTIAL DISTRICT
- C – COMMERCIAL DISTRICT
- M – MANUFACTURING DISTRICT

SPECIAL PURPOSE DISTRICT
 The letter(s) within the shaded area designates the special purpose district as described in the text of the Zoning Resolution.

Appendices

Phoenix Environmental Laboratories, Inc.
 587 East Middle Turnpike
 P.O. Box 370
 Manchester, CT 06040
 (860) 645-1102

Project Id : 2701 41ST AVE.

Soils

Miscellaneous/Inorganics

Metals, Total

PCBs By SW 8082

Lab Sample Id Collection Date Client Id Matrix	BD47895 3/14/2013 1 (0-5) Soil		BD47896 3/14/2013 1 (10-15) Soil		BD47897 3/14/2013 DUPLICATE Soil		BD47898 3/14/2013 2 (0-5) Soil		BD47899 3/14/2013 2 (10-15) Soil		BD47900 3/14/2013 3 (0-5) Soil		BD47901 3/14/2013 3 (10-15) Soil		BD47902 3/14/2013 4 (0-5) Soil		BD47903 3/14/2013 4 (10-15) Soil		BD47904 3/14/2013 5 (0-5) Soil		BD47905 3/14/2013 5 (10-15) Soil		BD47906 3/14/2013 6 (0-5) Soil		BD47907 3/14/2013 6 (10-15) Soil		BD47908 3/14/2013 TRIP BLANK Soil		BD47909 3/14/2013 TRIP BLANK Soil				
	Units	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL	Result	RL		
Percent Solid	%	85		92		93		84		90		86		91		78		86		88		88		85		91		100	1	100	1		
Aluminum	mg/Kg	8,150	52	4,640	54	4,210	53	12,500	60	6,720	53	10,500	55	6,230	56	10,200	64	6,370	58	7,200	52	5,860	55	6,890	53	5,870	56						
Aluminum	mg/L	BRL	3.5	BRL	3.6	BRL	3.5	BRL	4	BRL	3.6	BRL	3.8	BRL	4.3	BRL	3.9	BRL	3.9	BRL	3.5	BRL	3.7	BRL	3.5	BRL	3.7						
Antimony	mg/L	2.5	0.7	1.1	0.7	0.8	0.7	3.6	0.8	1	0.7	3.9	0.7	1.2	0.8	7.8	0.9	1.2	0.8	2.1	0.7	0.8	0.7	4	0.7	0.8	0.7						
Arsenic	mg/Kg	88.7	0.35	28	0.36	25.6	0.35	66.2	0.4	36.9	0.36	99.9	0.36	40.7	0.38	179	0.43	50.7	0.39	69	0.35	38.1	0.37	151	0.35	32.4	0.37						
Arsenic	mg/L	0.39	0.28	0.31	0.29	BRL	0.28	0.56	0.32	0.35	0.28	0.51	0.29	0.42	0.3	0.51	0.34	0.45	0.31	0.37	0.28	0.35	0.3	0.39	0.28	0.34	0.3						
Barium	mg/Kg	0.68	0.35	BRL	0.36	BRL	0.35	0.61	0.4	0.39	0.36	0.7	0.36	0.44	0.38	0.56	0.43	0.4	0.39	0.64	0.35	0.38	0.37	0.68	0.35	BRL	0.37						
Barium	mg/L	2,700	5.2	1,590	5.4	1,100	5.3	1,010	6	1,060	5.3	14,500	55	1,990	5.6	2,070	6.4	1,290	5.8	2,030	5.2	1,040	5.5	5,720	5.3	608	5.6						
Calcium	mg/L	18.1	0.35	11.7	0.36	11.9	0.35	19.6	0.4	13.5	0.36	18.7	0.36	16.7	0.38	799	4.3	15.4	0.39	16.8	0.35	12.6	0.37	17.9	0.35	11.2	0.37						
Chromium	mg/Kg	5.63	0.35	4.95	0.36	4.1	0.35	9.83	0.4	5	0.36	5.91	0.36	5.88	0.38	5.11	0.43	6.29	0.39	5.94	0.35	4.92	0.37	6.92	0.35	4.33	0.37						
Cobalt	mg/L	30.2	0.35	10.7	0.36	9.37	0.35	7.59	0.4	9.58	0.36	27.9	0.36	11.3	0.38	109	0.43	11.9	0.39	25.2	0.35	9.41	0.37	45.7	0.35	8.99	0.37						
Copper	mg/Kg	14,400	52	10,100	54	9,210	53	18,400	60	12,000	53	16,800	55	12,700	56	15,200	64	13,000	58	14,400	52	10,300	55	14,700	53	9,450	56						
Iron	mg/L	113	0.35	4.2	0.36	3.68	0.35	7.61	0.4	4.09	0.36	111	0.36	4.95	0.38	369	4.3	4.82	0.39	104	0.35	3.86	0.37	457	3.5	4.16	0.37						
Lead	mg/Kg	2,350	5.2	3,150	5.4	2,530	5.3	2,290	6	3,110	5.3	5,490	55	4,160	5.6	1,960	6.4	2,970	5.8	1,920	5.2	3,190	5.5	4,220	5.3	3,030	5.6						
Lead	mg/L	271	3.5	323	3.6	230	3.5	466	4	375	3.6	1,320	3.6	363	3.8	339	4.3	404	3.9	296	3.5	372	3.7	330	3.5	345	3.7						
Magnesium	mg/Kg	0.16	0.07	BRL	0.09	BRL	0.09	BRL	0.07	BRL	0.07	0.33	0.07	BRL	0.08	0.88	0.08	BRL	0.07	1.16	0.09	BRL	0.09	0.67	0.08	BRL	0.08						
Magnesium	mg/L	11.9	0.35	11.7	0.36	9.26	0.35	12	0.4	11.4	0.36	14.3	0.36	16.3	0.38	10.3	0.43	11.2	0.39	11	0.35	12.6	0.37	29.9	0.35	10.3	0.37						
Nickel	mg/L	790	5.2	1,210	5.4	1,190	5.3	618	6	1,160	5.3	852	5.5	1,850	5.6	578	6.4	1,490	5.8	741	5.2	1,040	5.5	1,150	5.3	956	5.6						
Potassium	mg/L	BRL	1.4	BRL	1.4	BRL	1.4	BRL	1.6	BRL	2	BRL	1.5	BRL	1.5	BRL	1.7	BRL	1.6	BRL	1.4	BRL	1.5	BRL	1.4	BRL	1.5						
Selenium	mg/Kg	BRL	0.35	BRL	0.36	BRL	0.35	BRL	0.4	BRL	0.36	BRL	0.36	BRL	0.38	BRL	1	BRL	0.39	BRL	0.35	BRL	0.37	BRL	0.35	BRL	0.37						
Silver	mg/L	81.8	5.2	129	5.4	98.8	5.3	71.4	6	80.4	5.3	142	5.5	147	5.6	63.8	6.4	85.9	5.8	107	5.2	106	5.5	148	5.3	100	5.6						
Sodium	mg/Kg	BRL	0.6	BRL	0.6	BRL	0.6	BRL	0.6	BRL	0.6	BRL	0.6	BRL	0.6	BRL	0.7	BRL	0.6	BRL	0.6	BRL	0.6	BRL	0.6	BRL	0.6	BRL	0.6				
Thallium	mg/L	23.7	0.35	15.8	0.36	14.2	0.35	26	0.4	17.8	0.36	23.8	0.36	19.1	0.38	33.7	0.43	19.5	0.39	21.5	0.35	16.8	0.37	28	0.35	13.9	0.37						
Vanadium	mg/Kg	91.9	0.35	22.8	0.36	18.3	0.35	26.2	0.4	21.6	0.36	56	0.36	30	0.38	46.4	0.43	24.2	0.39	64.8	0.35	40.9	0.37	91.2	0.35	24.7	0.37						
Zinc	mg/Kg																																
PCB-1016	ug/Kg	ND	380	ND	360	ND	350	ND	380	ND	360	ND	380	ND	360	ND	430	ND	380	ND	380	ND	380	ND	380	ND	360	ND	380	ND	360		
PCB-1221	ug/Kg	ND	380	ND	360	ND	350	ND	380	ND	360	ND	380	ND	360	ND	430	ND	380	ND	380	ND	380	ND	380	ND	360	ND	380	ND	360		
PCB-1232	ug/Kg	ND	380	ND	360	ND	350	ND	380	ND	360	ND	380	ND	360	ND	430	ND	380	ND	380	ND	380	ND	380	ND	360	ND	380	ND	360		
PCB-1242	ug/Kg	ND	380	ND	360	ND	350	ND	380	ND	360	ND	380	ND	360	ND	430	ND	380	ND	380	ND	380	ND	380	ND	360	ND	380	ND	360		
PCB-1248	ug/Kg	ND	380	ND	360	ND	350	ND	380	ND	360	ND	380	ND	360	ND	430	ND	380	ND	380	ND	380	ND	380	ND	360	ND	380	ND	360		
PCB-1254	ug/Kg	ND	380	ND	360	ND	350	ND	380	ND	360	ND	380	ND	360	ND	430	ND	380	ND	380	ND	380	ND	380	ND	360	ND	380	ND	360		
PCB-1260	ug/Kg	ND	380	ND	360	ND	350	ND	380	ND	360	ND	380	ND	360	ND	430	ND	380	ND	380	ND	380	ND	380	ND	360	ND	380	ND	360		
PCB-1262	ug/Kg	ND	380	ND	360	ND	350	ND	380	ND	360	ND	380	ND	360	ND	430	ND	380	ND	380	ND	380	ND	380	ND	360	ND	380	ND	360		
PCB-1268	ug/Kg	ND	380	ND	360	ND	350	ND	380	ND	360	ND	380	ND	360	ND	430	ND	380	ND	380	ND	380	ND	380	ND	360	ND	380	ND	360		

Phoenix Environmental Laboratories, Inc.

587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06040
(860) 645-1102

Lab Sample Id
Collection Date
Client Id
Matrix

BD47895
3/14/2013
1 (0-5)
Soil

BD47896
3/14/2013
1 (0-15)
Soil

BD47897
3/14/2013
DUPLICATE
Soil

BD47898
3/14/2013
2 (0-5)
Soil

BD47899
3/14/2013
2 (10-15)
Soil

BD47900
3/14/2013
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BD47901
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Soil

BD47905
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Soil

BD47906
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6 (0-5)
Soil

BD47907
3/14/2013
6 (10-15)
Soil

BD47908
3/14/2013
TRIP BLANK
Soil

BD47909
3/14/2013
TRIP BLANK
Soil

Project Id : 2701 41ST AVE.

Soils	Units	Result																													
		Result	RL																												
Volatiles By SW8260																															
1,1,1,2-Tetrachloroethane	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
1,1,1-Trichloroethane	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
1,1,2,2-Tetrachloroethane	ug/Kg	ND	3.5	ND	3.3	ND	3.2	ND	3.6	ND	3.3	ND	3.5	ND	3.3	ND	3.8	ND	3.5	ND	3.4	ND	3.4	ND	3.5	ND	3.3	ND	250	ND	3
1,1,2-Trichloroethane	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
1,1-Dichloroethane	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
1,1-Dichloroethane	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
1,1-Dichloropropene	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
1,2,3-Trichlorobenzene	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
1,2,3-Trichloropropane	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
1,2,4-Trichlorobenzene	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
1,2,4-Trimethylbenzene	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
1,2-Dibromo-3-chloropropane	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
1,2-Dibromoethane	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
1,2-Dichlorobenzene	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
1,2-Dichloroethane	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
1,2-Dichloropropane	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
1,3,5-Trimethylbenzene	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
1,3-Dichlorobenzene	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
1,3-Dichloropropane	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
1,4-Dichlorobenzene	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
2,2-Dichloropropane	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
2-Chlorotoluene	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
2-Hexanone	ug/Kg	ND	29	ND	27	ND	27	ND	30	ND	28	ND	29	ND	27	ND	32	ND	29	ND	28	ND	28	ND	29	ND	27	ND	1,300	ND	25
2-Isopropyltoluene	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
4-Chlorotoluene	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
4-Methyl-2-pentanone	ug/Kg	ND	29	ND	27	ND	27	ND	30	ND	28	ND	29	ND	27	ND	32	ND	29	ND	28	ND	28	ND	29	ND	27	ND	1,300	ND	25
Acetone	ug/Kg	ND	120	ND	110	ND	110	ND	120	ND	110	ND	120	ND	110	ND	130	ND	120	ND	110	ND	110	ND	120	ND	110	ND	5,000	ND	100
Acrylonitrile	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	500	ND	5
Benzene	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
Bromobenzene	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
Bromochloromethane	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
Bromodichloromethane	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
Bromofom	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
Bromomethane	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
Carbon Disulfide	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
Carbon tetrachloride	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
Chlorobenzene	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
Chloroethane	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
Chloroform	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
Chloromethane	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8	ND	5.5	ND	6.4	ND	5.8	ND	5.7	ND	5.7	ND	5.9	ND	5.5	ND	250	ND	5
cis-1,2-Dichloroethane	ug/Kg	ND	5.9	ND	5.4	ND	5.4	ND	6	ND	5.6	ND	5.8																		

Phoenix Environmental Laboratories, Inc.

587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06040
(860) 645-1102

Lab Sample Id
Collection Date
Client Id
Matrix

BD47895
3/14/2013
1
Soil

BD47896
3/14/2013
1 (0-5)
Soil

BD47897
3/14/2013
DUPLICATE
Soil

BD47898
3/14/2013
2 (0-5)
Soil

BD47899
3/14/2013
2 (10-15)
Soil

BD47900
3/14/2013
3 (0-5)
Soil

BD47901
3/14/2013
3 (10-15)
Soil

BD47902
3/14/2013
4 (0-5)
Soil

BD47903
3/14/2013
4 (10-15)
Soil

BD47904
3/14/2013
5 (0-5)
Soil

BD47905
3/14/2013
5 (10-15)
Soil

BD47906
3/14/2013
6 (0-5)
Soil

BD47907
3/14/2013
6 (10-15)
Soil

BD47908
3/14/2013
TRIP BLANK
Soil

BD47909
3/14/2013
TRIP BLANK
Soil

Project Id : 2701 41ST AVE.

Soils	Units	Result																											
		Result	RL																										
Semivolatiles By SW 8270																													
1,2,4,5-Tetrachlorobenzene	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
1,2,4-Trichlorobenzene	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
1,2-Dichlorobenzene	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
1,2-Diphenylhydrazine	ug/Kg	ND	380	ND	360	ND	360	ND	380	ND	370	ND	380	ND	360	ND	430	ND	380	ND	370	ND	380	ND	380	ND	360	ND	360
1,3-Dichlorobenzene	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
1,4-Dichlorobenzene	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
2,4,5-Trichlorophenol	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
2,4,6-Trichlorophenol	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
2,4-Dichlorophenol	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
2,4-Dimethylphenol	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
2,4-Dinitrophenol	ug/Kg	ND	610	ND	570	ND	570	ND	610	ND	590	ND	610	ND	580	ND	680	ND	610	ND	590	ND	600	ND	610	ND	580	ND	580
2,4-Dinitrotoluene	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
2,6-Dinitrotoluene	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
2-Chloronaphthalene	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
2-Chlorophenol	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
2-Methylnaphthalene	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
2-Methylphenol (o-cresol)	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
2-Nitroaniline	ug/Kg	ND	610	ND	570	ND	570	ND	610	ND	590	ND	610	ND	580	ND	680	ND	610	ND	590	ND	600	ND	610	ND	580	ND	580
2-Nitrophenol	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
3&4-Methylphenol (m&p-cresol)	ug/Kg	ND	380	ND	360	ND	360	ND	380	ND	370	ND	380	ND	360	ND	430	ND	380	ND	370	ND	380	ND	380	ND	360	ND	360
3,3-Dichlorobenzidine	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
3-Nitroaniline	ug/Kg	ND	610	ND	570	ND	570	ND	610	ND	590	ND	610	ND	580	ND	680	ND	610	ND	590	ND	600	ND	610	ND	580	ND	580
4,6-Dinitro-2-methylphenol	ug/Kg	ND	1,100	ND	1,000	ND	1,000	ND	1,100	ND	1,100	ND	1,100	ND	1,000	ND	1,200	ND	1,100										
4-Bromophenyl phenyl ether	ug/Kg	ND	380	ND	360	ND	360	ND	380	ND	370	ND	380	ND	360	ND	430	ND	380	ND	370	ND	380	ND	380	ND	360	ND	360
4-Chloro-3-methylphenol	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
4-Chloroaniline	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
4-Chlorophenyl phenyl ether	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
4-Nitroaniline	ug/Kg	ND	610	ND	570	ND	570	ND	610	ND	590	ND	610	ND	580	ND	680	ND	610	ND	590	ND	600	ND	610	ND	580	ND	580
4-Nitrophenol	ug/Kg	ND	1,100	ND	1,000	ND	1,000	ND	1,100	ND	1,100	ND	1,100	ND	1,000	ND	1,200	ND	1,100										
Acenaphthene	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
Acenaphthylene	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
Acetophenone	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
Aniline	ug/Kg	ND	1,100	ND	1,000	ND	1,000	ND	1,100	ND	1,100	ND	1,100	ND	1,000	ND	1,200	ND	1,100										
Anthracene	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
Benz(a)anthracene	ug/Kg	430	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
Benzidine	ug/Kg	ND	460	ND	430	ND	430	ND	460	ND	440	ND	460	ND	430	ND	510	ND	460	ND	440	ND	450	ND	460	ND	440	ND	440
Benzo(a)pyrene	ug/Kg	350	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	1,200	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
Benzo(b)fluoranthene	ug/Kg	450	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	1,500	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
Benzo(k)fluoranthene	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
Benzo(e)fluoranthene	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
Benzo(a)anthracene	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250	ND	250
Benzo(a)anthracene	ug/Kg	ND	270	ND	250	ND	250	ND	270	ND	260	ND	270	ND	250	ND	300	ND	270	ND	260	ND	260	ND	270	ND	250		

Phoenix Environmental Laboratories, Inc.

587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06040
(860) 645-1102

Project Id : 2701 41ST AVE.

Soils

Pesticides By SW8061

	Units	BD47895		BD47896		BD47897		BD47898		BD47899		BD47900		BD47901		BD47902		BD47903		BD47904		BD47905		BD47906		BD47907		BD47908		BD47909	
		Result	RL																												
4,4' -DDD	ug/Kg	ND	37	ND	34	ND	34	ND	37	ND	35	ND	36	ND	34	ND	41	ND	36	ND	36	ND	36	ND	36	ND	37	ND	34	ND	34
4,4' -DDE	ug/Kg	ND	37	ND	34	ND	34	ND	37	ND	35	ND	36	ND	34	ND	41	ND	36	ND	36	ND	36	ND	36	ND	37	ND	34	ND	34
4,4' -DDT	ug/Kg	ND	37	ND	34	ND	34	ND	37	ND	35	ND	36	ND	34	ND	41	ND	36	ND	36	ND	36	ND	36	ND	37	ND	34	ND	34
a-BHC	ug/Kg	ND	18	ND	17	ND	17	ND	18	ND	17	ND	18	ND	17	ND	18	ND	20	ND	18	ND	18	ND	18	ND	18	ND	17	ND	17
Alachlor	ug/Kg	ND	18	ND	17	ND	17	ND	18	ND	17	ND	18	ND	17	ND	18	ND	17	ND	20	ND	18	ND	18	ND	18	ND	17	ND	17
Aldrin	ug/Kg	ND	5.7	ND	5.4	ND	5.2	ND	5.8	ND	5.4	ND	5.6	ND	5.4	ND	6.4	ND	5.7	ND	6.4	ND	5.7	ND	5.7	ND	5.7	ND	5.4	ND	5.4
b-BHC	ug/Kg	ND	18	ND	17	ND	17	ND	18	ND	17	ND	18	ND	17	ND	18	ND	17	ND	20	ND	18	ND	18	ND	18	ND	17	ND	17
Chlordane	ug/Kg	ND	57	ND	54	ND	52	ND	58	ND	54	ND	56	ND	54	ND	64	ND	57	ND	490	ND	57	ND	57	ND	61	ND	54	ND	54
d-BHC	ug/Kg	ND	18	ND	17	ND	17	ND	18	ND	17	ND	18	ND	17	ND	18	ND	20	ND	18	ND	18	ND	18	ND	18	ND	17	ND	17
Dieldrin	ug/Kg	ND	5.7	ND	5.4	ND	5.2	ND	5.8	ND	5.4	ND	5.6	ND	5.4	ND	6.4	ND	5.7	ND	6.4	ND	5.7	ND	5.7	ND	5.7	ND	5.4	ND	5.4
Endosulfan I	ug/Kg	ND	18	ND	17	ND	17	ND	18	ND	17	ND	18	ND	17	ND	20	ND	18	ND	17	ND	17								
Endosulfan II	ug/Kg	ND	37	ND	34	ND	34	ND	37	ND	35	ND	36	ND	34	ND	41	ND	36	ND	36	ND	36	ND	36	ND	37	ND	34	ND	34
Endosulfan sulfate	ug/Kg	ND	37	ND	34	ND	34	ND	37	ND	35	ND	36	ND	34	ND	41	ND	36	ND	36	ND	36	ND	36	ND	37	ND	34	ND	34
Endrin	ug/Kg	ND	37	ND	34	ND	34	ND	37	ND	35	ND	36	ND	34	ND	41	ND	36	ND	36	ND	36	ND	36	ND	37	ND	34	ND	34
Endrin aldehyde	ug/Kg	ND	37	ND	34	ND	34	ND	37	ND	35	ND	36	ND	34	ND	41	ND	36	ND	36	ND	36	ND	36	ND	37	ND	34	ND	34
Endrin ketone	ug/Kg	ND	37	ND	34	ND	34	ND	37	ND	35	ND	36	ND	34	ND	41	ND	36	ND	36	ND	36	ND	36	ND	37	ND	34	ND	34
g-BHC	ug/Kg	ND	5.7	ND	5.4	ND	5.2	ND	5.8	ND	5.4	ND	5.6	ND	5.4	ND	6.4	ND	5.7	ND	6.4	ND	5.7	ND	5.7	ND	5.7	ND	5.4	ND	5.4
Heptachlor	ug/Kg	ND	11	ND	11	ND	10	ND	12	ND	11	ND	11	ND	11	ND	13	ND	11												
Heptachlor epoxide	ug/Kg	ND	18	ND	17	ND	17	ND	18	ND	17	ND	18	ND	17	ND	20	ND	18	ND	17	ND	17								
Methoxychlor	ug/Kg	ND	180	ND	170	ND	170	ND	180	ND	170	ND	180	ND	170	ND	200	ND	180	ND	200	ND	180	ND	180	ND	180	ND	170	ND	170
Toxaphene	ug/Kg	ND	180	ND	170	ND	170	ND	180	ND	170	ND	180	ND	170	ND	200	ND	180	ND	200	ND	180	ND	180	ND	180	ND	170	ND	170

Result Detected

Phoenix Environmental Laboratories, Inc.

587 East Middle Turnpike
 P.O. Box 370
 Manchester, CT 06040
 (860) 645-1102

Project Id : 2701 41ST AVE.

Lab Sample Id
 Collection Date
 Client Id
 Matrix

		BD82965 5/22/2013 MW-1 Water		BD82966 5/22/2013 MW-2 Water		BD82967 5/22/2013 MW-3 Water		BD82968 5/22/2013 TRIP BLANK Water	
	Units	Result	RL	Result	RL	Result	RL	Result	RL
Water									
Metals, Total									
Aluminum	mg/Kg								
Aluminum	mg/L	41.6	0.1	44.8	0.1	53.9	0.1		
Antimony	mg/Kg								
Antimony	mg/L	BRL	0.005	BRL	0.005	BRL	0.005		
Arsenic	mg/Kg								
Arsenic	mg/L	0.01	0.004	0.005	0.004	0.011	0.004		
Barium	mg/Kg								
Barium	mg/L	0.596	0.02	0.688	0.02	0.893	0.02		
Beryllium	mg/Kg								
Beryllium	mg/L	0.002	0.001	0.002	0.001	0.003	0.001		
Cadmium	mg/Kg								
Cadmium	mg/L	0.002	0.001	0.002	0.001	0.003	0.001		
Calcium	mg/Kg								
Calcium	mg/L	246	0.1	207	0.1	262	0.1		
Chromium	mg/Kg								
Chromium	mg/L	0.208	0.001	0.14	0.001	0.185	0.001		
Cobalt	mg/Kg								
Cobalt	mg/L	0.058	0.02	0.074	0.02	0.091	0.02		
Copper	mg/kg								
Copper	mg/L	0.219	0.005	0.181	0.005	0.234	0.005		
Iron	mg/Kg								
Iron	mg/L	78.6	0.01	86	0.01	111	0.01		
Lead	mg/Kg								
Lead	mg/L	0.063	0.002	0.104	0.002	0.088	0.002		
Magnesium	mg/Kg								
Magnesium	mg/L	119	0.1	82.8	0.01	111	0.1		
Manganese	mg/Kg								
Manganese	mg/L	2.95	0.01	4.4	0.01	5.46	0.01		
Mercury	mg/Kg								
Mercury	mg/L	BRL	0.0002	BRL	0.0002	BRL	0.0002		
Nickel	mg/Kg								
Nickel	mg/L	0.146	0.01	0.15	0.01	0.197	0.01		
Potassium	mg/Kg								
Potassium	mg/L	17.7	0.1	15.9	0.1	23.6	0.1		
Selenium	mg/Kg								
Selenium	mg/L	BRL	0.01	BRL	0.01	BRL	0.01		
Silver	mg/Kg								
Silver	mg/L	BRL	0.001	BRL	0.001	BRL	0.001		
Sodium	mg/Kg								
Sodium	mg/L	226	1	79.7	1	331	1		
Thallium	mg/Kg								
Thallium	mg/L	BRL	0.002	BRL	0.002	BRL	0.002		
Vanadium	mg/Kg								
Vanadium	mg/L	0.098	0.002	0.11	0.002	0.144	0.002		
Zinc	mg/Kg								
Zinc	mg/L	1.56	0.002	0.516	0.002	0.714	0.002		
PCBs By 8082									
PCB-1016	ug/L	ND	0.1	ND	0.1	ND	0.1		
PCB-1221	ug/L	ND	0.1	ND	0.1	ND	0.1		
PCB-1232	ug/L	ND	0.1	ND	0.1	ND	0.1		
PCB-1242	ug/L	ND	0.1	ND	0.1	ND	0.1		
PCB-1248	ug/L	ND	0.1	ND	0.1	ND	0.1		
PCB-1254	ug/L	ND	0.1	ND	0.1	ND	0.1		
PCB-1260	ug/L	ND	0.1	ND	0.1	ND	0.1		
PCB-1262	ug/L	ND	0.1	ND	0.1	ND	0.1		
PCB-1268	ug/L	ND	0.1	ND	0.1	ND	0.1		

Phoenix Environmental Laboratories, Inc.

587 East Middle Turnpike
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Lab Sample Id
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 Client Id
 Matrix

BD82965
 5/22/2013
 MW-1
 Water

BD82966
 5/22/2013
 MW-2
 Water

BD82967
 5/22/2013
 MW-3
 Water

BD82968
 5/22/2013
 TRIP BLANK
 Water

Project Id : 2701 41ST AVE.

Water

Volatiles By SW8260

	Units	Result	RL	Result	RL	Result	RL	Result	RL
1,1,1,2-Tetrachloroethane	ug/L	ND	1	ND	1	ND	1	ND	1
1,1,1-Trichloroethane	ug/L	ND	1	ND	1	ND	1	ND	1
1,1,2,2-Tetrachloroethane	ug/L	ND	0.5	ND	0.5	ND	0.5	ND	0.5
1,1,2-Trichloroethane	ug/L	ND	1	ND	1	ND	1	ND	1
1,1-Dichloroethane	ug/L	ND	1	ND	1	ND	1	ND	1
1,1-Dichloroethene	ug/L	ND	1	ND	1	ND	1	ND	1
1,1-Dichloropropene	ug/L	ND	1	ND	1	ND	1	ND	1
1,2,3-Trichlorobenzene	ug/L	ND	1	ND	1	ND	1	ND	1
1,2,3-Trichloropropane	ug/L	ND	1	ND	1	ND	1	ND	1
1,2,4-Trichlorobenzene	ug/L	ND	1	ND	1	ND	1	ND	1
1,2,4-Trimethylbenzene	ug/L	ND	1	ND	1	ND	1	ND	1
1,2-Dibromo-3-chloropropane	ug/L	ND	1	ND	1	ND	1	ND	1
1,2-Dibromoethane	ug/L	ND	1	ND	1	ND	1	ND	1
1,2-Dichlorobenzene	ug/L	ND	1	ND	1	ND	1	ND	1
1,2-Dichloroethane	ug/L	ND	0.6	ND	0.6	ND	0.6	ND	0.6
1,2-Dichloropropane	ug/L	ND	1	ND	1	ND	1	ND	1
1,3,5-Trimethylbenzene	ug/L	ND	1	ND	1	ND	1	ND	1
1,3-Dichlorobenzene	ug/L	ND	1	ND	1	ND	1	ND	1
1,3-Dichloropropane	ug/L	ND	1	ND	1	ND	1	ND	1
1,4-Dichlorobenzene	ug/L	ND	1	ND	1	ND	1	ND	1
2,2-Dichloropropane	ug/L	ND	1	ND	1	ND	1	ND	1
2-Chlorotoluene	ug/L	ND	1	ND	1	ND	1	ND	1
2-Hexanone	ug/L	ND	5	ND	5	ND	5	ND	5
2-Isopropyltoluene	ug/L	ND	1	ND	1	ND	1	ND	1
4-Chlorotoluene	ug/L	ND	1	ND	1	ND	1	ND	1
4-Methyl-2-pentanone	ug/L	ND	5	ND	5	ND	5	ND	5
Acetone	ug/L	ND	25	ND	25	ND	25	ND	25
Acrylonitrile	ug/L	ND	5	ND	5	ND	5	ND	5
Benzene	ug/L	ND	0.7	ND	0.7	ND	0.7	ND	0.7
Bromobenzene	ug/L	ND	1	ND	1	ND	1	ND	1
Bromochloromethane	ug/L	ND	1	ND	1	ND	1	ND	1
Bromodichloromethane	ug/L	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Bromoform	ug/L	ND	1	ND	1	ND	1	ND	1
Bromomethane	ug/L	ND	1	ND	1	ND	1	ND	1
Carbon Disulfide	ug/L	ND	5	ND	5	ND	5	ND	5
Carbon tetrachloride	ug/L	ND	1	ND	1	ND	1	ND	1
Chlorobenzene	ug/L	ND	1	ND	1	ND	1	ND	1
Chloroethane	ug/L	ND	1	ND	1	ND	1	ND	1
Chloroform	ug/L	ND	1	ND	1	ND	1	ND	1
Chloromethane	ug/L	ND	1	ND	1	ND	1	ND	1
cis-1,2-Dichloroethene	ug/L	ND	1	ND	1	ND	1	ND	1
cis-1,3-Dichloropropene	ug/L	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Dibromochloromethane	ug/L	ND	0.5	ND	0.5	ND	0.5	ND	0.5
Dibromomethane	ug/L	ND	1	ND	1	ND	1	ND	1
Dichlorodifluoromethane	ug/L	ND	1	ND	1	ND	1	ND	1
Ethylbenzene	ug/L	ND	1	ND	1	ND	1	ND	1
Hexachlorobutadiene	ug/L	ND	0.4	ND	0.4	ND	0.4	ND	0.4
Isopropylbenzene	ug/L	ND	1	ND	1	ND	1	ND	1
m&p-Xylene	ug/L	ND	1	ND	1	ND	1	ND	1
Methyl ethyl ketone	ug/L	ND	5	ND	5	ND	5	ND	5
Methyl t-butyl ether (MTBE)	ug/L	ND	1	ND	1	ND	1	ND	1
Methylene chloride	ug/L	ND	1	ND	1	ND	1	ND	1
Naphthalene	ug/L	ND	1	ND	1	ND	1	ND	1
n-Butylbenzene	ug/L	ND	1	ND	1	ND	1	ND	1
n-Propylbenzene	ug/L	ND	1	ND	1	ND	1	ND	1
o-Xylene	ug/L	ND	1	ND	1	ND	1	ND	1
p-Isopropyltoluene	ug/L	ND	1	ND	1	ND	1	ND	1
sec-Butylbenzene	ug/L	ND	1	ND	1	ND	1	ND	1
Styrene	ug/L	ND	1	ND	1	ND	1	ND	1
tert-Butylbenzene	ug/L	ND	1	ND	1	ND	1	ND	1

Phoenix Environmental Laboratories, Inc.

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Lab Sample Id
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 Matrix

BD82965
 5/22/2013
 MW-1
 Water

BD82966
 5/22/2013
 MW-2
 Water

BD82967
 5/22/2013
 MW-3
 Water

BD82968
 5/22/2013
 TRIP BLANK
 Water

Project Id : 2701 41ST AVE.

Water

	Units	Result	RL	Result	RL	Result	RL	Result	RL
Tetrachloroethene	ug/L	2.3	1	ND	1	1.5	1	ND	1
Tetrahydrofuran (THF)	ug/L	ND	2.5	ND	2.5	ND	2.5	ND	2.5
Toluene	ug/L	ND	1	ND	1	ND	1	ND	1
Total Xylenes	ug/L	ND	1	ND	1	ND	1	ND	1
trans-1,2-Dichloroethene	ug/L	ND	1	ND	1	ND	1	ND	1
trans-1,3-Dichloropropene	ug/L	ND	0.5	ND	0.5	ND	0.5	ND	0.5
trans-1,4-dichloro-2-butene	ug/L	ND	5	ND	5	ND	5	ND	5
Trichloroethene	ug/L	ND	1	ND	1	ND	1	ND	1
Trichlorofluoromethane	ug/L	ND	1	ND	1	ND	1	ND	1
Trichlorotrifluoroethane	ug/L	ND	1	ND	1	ND	1	ND	1
Vinyl chloride	ug/L	ND	1	ND	1	ND	1	ND	1

Semivolatiles By SW8270 (SIM)

1,2,4,5-Tetrachlorobenzene	ug/L	ND	1.6	ND	1.6	ND	1.6		
Acenaphthene	ug/L	ND	0.05	ND	0.05	ND	0.05		
Acenaphthylene	ug/L	ND	0.05	ND	0.05	ND	0.05		
Benz(a)anthracene	ug/L	0.06	0.04	ND	0.04	0.04	0.04		
Benzo(a)pyrene	ug/L	ND	0.05	ND	0.05	ND	0.05		
Benzo(b)fluoranthene	ug/L	ND	0.05	ND	0.05	ND	0.05		
Benzo(ghi)perylene	ug/L	ND	3	ND	3	ND	3		
Benzo(k)fluoranthene	ug/L	ND	0.05	ND	0.05	ND	0.05		
Bis(2-ethylhexyl)phthalate	ug/L	1.7	1.6	ND	1.6	ND	1.6		
Chrysene	ug/L	0.06	0.05	ND	0.05	ND	0.05		
Dibenz(a,h)anthracene	ug/L	ND	0.01	ND	0.01	ND	0.01		
Hexachlorobenzene	ug/L	ND	0.06	ND	0.06	ND	0.06		
Hexachloroethane	ug/L	ND	2.4	ND	2.4	ND	2.4		
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.05	ND	0.05	ND	0.05		
Pentachloronitrobenzene	ug/L	ND	0.1	ND	0.1	ND	0.1		
Pentachlorophenol	ug/L	ND	0.8	ND	0.8	ND	0.8		
Phenanthrene	ug/L	0.15	0.05	ND	0.05	0.06	0.05		
Pyridine	ug/L	ND	0.5	ND	0.5	ND	0.5		

Semivolatiles By SW8270

1,2,4-Trichlorobenzene	ug/L	ND	5	ND	5	ND	5		
1,2-Dichlorobenzene	ug/L	ND	5	ND	5	ND	5		
1,2-Diphenylhydrazine	ug/L	ND	5	ND	5	ND	5		
1,3-Dichlorobenzene	ug/L	ND	5	ND	5	ND	5		
1,4-Dichlorobenzene	ug/L	ND	5	ND	5	ND	5		
2,4,5-Trichlorophenol	ug/L	ND	10	ND	10	ND	10		
2,4,6-Trichlorophenol	ug/L	ND	10	ND	10	ND	10		
2,4-Dichlorophenol	ug/L	ND	10	ND	10	ND	10		
2,4-Dimethylphenol	ug/L	ND	10	ND	10	ND	10		
2,4-Dinitrophenol	ug/L	ND	50	ND	50	ND	50		
2,4-Dinitrotoluene	ug/L	ND	5	ND	5	ND	5		
2,6-Dinitrotoluene	ug/L	ND	5	ND	5	ND	5		
2-Chloronaphthalene	ug/L	ND	5	ND	5	ND	5		
2-Chlorophenol	ug/L	ND	10	ND	10	ND	10		
2-Methylnaphthalene	ug/L	ND	5	ND	5	ND	5		
2-Methylphenol (o-cresol)	ug/L	ND	10	ND	10	ND	10		
2-Nitroaniline	ug/L	ND	50	ND	50	ND	50		
2-Nitrophenol	ug/L	ND	10	ND	10	ND	10		
3&4-Methylphenol (m&p-cresol)	ug/L	ND	10	ND	10	ND	10		
3,3'-Dichlorobenzidine	ug/L	ND	50	ND	50	ND	50		
3-Nitroaniline	ug/L	ND	50	ND	50	ND	50		
4,6-Dinitro-2-methylphenol	ug/L	ND	50	ND	50	ND	50		
4-Bromophenyl phenyl ether	ug/L	ND	5	ND	5	ND	5		
4-Chloro-3-methylphenol	ug/L	ND	20	ND	20	ND	20		
4-Chloroaniline	ug/L	ND	20	ND	20	ND	20		
4-Chlorophenyl phenyl ether	ug/L	ND	5	ND	5	ND	5		

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BD82965
 5/22/2013
 MW-1
 Water

BD82966
 5/22/2013
 MW-2
 Water

BD82967
 5/22/2013
 MW-3
 Water

BD82968
 5/22/2013
 TRIP BLANK
 Water

Project Id : 2701 41ST AVE.

Water

	Units	Result	RL	Result	RL	Result	RL	Result	RL
4-Nitroaniline	ug/L	ND	20	ND	20	ND	20		
4-Nitrophenol	ug/L	ND	50	ND	50	ND	50		
Acetophenone	ug/L	ND	5	ND	5	ND	5		
Aniline	ug/L	ND	10	ND	10	ND	10		
Anthracene	ug/L	ND	5	ND	5	ND	5		
Benzidine	ug/L	ND	50	ND	50	ND	50		
Benzoic acid	ug/L	ND	50	ND	50	ND	50		
Benzyl butyl phthalate	ug/L	ND	5	ND	5	ND	5		
Bis(2-chloroethoxy)methane	ug/L	ND	5	ND	5	ND	5		
Bis(2-chloroethyl)ether	ug/L	ND	5	ND	5	ND	5		
Bis(2-chloroisopropyl)ether	ug/L	ND	5	ND	5	ND	5		
Carbazole	ug/L	ND	5	ND	5	ND	5		
Dibenzofuran	ug/L	ND	5	ND	5	ND	5		
Diethyl phthalate	ug/L	ND	5	ND	5	ND	5		
Dimethylphthalate	ug/L	ND	5	ND	5	ND	5		
Di-n-butylphthalate	ug/L	ND	5	ND	5	ND	5		
Di-n-octylphthalate	ug/L	ND	5	ND	5	ND	5		
Fluoranthene	ug/L	ND	5	ND	5	ND	5		
Fluorene	ug/L	ND	5	ND	5	ND	5		
Hexachlorobutadiene	ug/L	ND	5	ND	5	ND	5		
Hexachlorocyclopentadiene	ug/L	ND	5	ND	5	ND	5		
Isophorone	ug/L	ND	5	ND	5	ND	5		
Naphthalene	ug/L	ND	5	ND	5	ND	5		
Nitrobenzene	ug/L	ND	5	ND	5	ND	5		
N-Nitrosodimethylamine	ug/L	ND	5	ND	5	ND	5		
N-Nitrosodi-n-propylamine	ug/L	ND	5	ND	5	ND	5		
N-Nitrosodiphenylamine	ug/L	ND	5	ND	5	ND	5		
Phenol	ug/L	ND	5	ND	5	ND	5		
Pyrene	ug/L	ND	5	ND	5	ND	5		

Pesticides By SW8081

4,4' -DDD	ug/L	ND	0.05	ND	0.05	ND	0.05		
4,4' -DDE	ug/L	ND	0.05	ND	0.05	ND	0.05		
4,4' -DDT	ug/L	ND	0.05	ND	0.05	ND	0.05		
a-BHC	ug/L	ND	0.025	ND	0.025	ND	0.025		
Alachlor	ug/L	ND	0.075	ND	0.075	ND	0.075		
Aldrin	ug/L	ND	0.002	ND	0.002	ND	0.002		
b-BHC	ug/L	ND	0.005	ND	0.005	ND	0.005		
Chlordane	ug/L	ND	0.3	ND	0.3	ND	0.3		
d-BHC	ug/L	ND	0.025	ND	0.025	ND	0.025		
Dieldrin	ug/L	ND	0.002	ND	0.002	ND	0.002		
Endosulfan I	ug/L	ND	0.05	ND	0.05	ND	0.05		
Endosulfan II	ug/L	ND	0.05	ND	0.05	ND	0.05		
Endosulfan Sulfate	ug/L	ND	0.05	ND	0.05	ND	0.05		
Endrin	ug/L	ND	0.05	ND	0.05	ND	0.05		
Endrin Aldehyde	ug/L	ND	0.05	ND	0.05	ND	0.05		
Endrin ketone	ug/L	ND	0.05	ND	0.05	ND	0.05		
g-BHC (Lindane)	ug/L	ND	0.025	ND	0.025	ND	0.025		
Heptachlor	ug/L	ND	0.025	ND	0.025	ND	0.025		
Heptachlor epoxide	ug/L	ND	0.025	ND	0.025	ND	0.025		
Methoxychlor	ug/L	ND	0.1	ND	0.1	ND	0.1		
Toxaphene	ug/L	ND	1	ND	1	ND	1		

Result Detected

Phoenix Environmental Laboratories, Inc.

587 East Middle Turnpike
P.O. Box 370
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Lab Sample Id
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Matrix

BD47892	BD47893	BD47894	BD83030
3/14/2013	3/14/2013	3/14/2013	5/22/2013
SG-2	SG-3	SG-4	SG-1
Air	Air	Air	Air

Project Id : 2701 41ST AVE.

Units Result RL Result RL Result RL Result RL

Soil Gas Results

Volatiles (TO15) By TO15

1,1,1,2-Tetrachloroethane	ppbv	ND	0.146	ND	0.146	ND	26.2	ND	0.146
1,1,1-Trichloroethane	ppbv	2.35	0.183	0.4	0.183	ND	33	0.19	0.183
1,1,2,2-Tetrachloroethane	ppbv	ND	0.146	ND	0.146	ND	26.2	ND	0.146
1,1,2-Trichloroethane	ppbv	ND	0.183	ND	0.183	ND	33	ND	0.183
1,1-Dichloroethane	ppbv	ND	0.247	ND	0.247	ND	44.5	ND	0.247
1,1-Dichloroethene	ppbv	ND	0.252	ND	0.252	ND	45.4	ND	0.252
1,2,4-Trichlorobenzene	ppbv	ND	0.135	ND	0.135	ND	24.3	ND	0.135
1,2,4-Trimethylbenzene	ppbv	ND	0.204	ND	0.204	ND	36.6	1.59	0.204
1,2-Dibromoethane(EDB)	ppbv	ND	0.13	ND	0.13	ND	23.4	ND	0.13
1,2-Dichlorobenzene	ppbv	ND	0.166	ND	0.166	ND	30	ND	0.166
1,2-Dichloroethane	ppbv	ND	0.247	ND	0.247	ND	44.5	ND	0.247
1,2-dichloropropane	ppbv	ND	0.216	ND	0.216	ND	39	ND	0.216
1,2-Dichlorotetrafluoroethane	ppbv	ND	0.143	ND	0.143	ND	25.8	ND	0.143
1,3,5-Trimethylbenzene	ppbv	ND	0.204	ND	0.204	ND	36.6	0.52	0.204
1,3-Butadiene	ppbv	ND	0.452	ND	0.452	ND	81.4	ND	0.452
1,3-Dichlorobenzene	ppbv	ND	0.166	ND	0.166	ND	30	ND	0.166
1,4-Dichlorobenzene	ppbv	ND	0.166	ND	0.166	ND	30	ND	0.166
1,4-Dioxane	ppbv	ND	0.278	ND	0.278	ND	50	ND	0.278
2-Hexanone(MBK)	ppbv	ND	0.244	ND	0.244	ND	44	ND	0.244
4-Ethyltoluene	ppbv	ND	0.204	ND	0.204	ND	36.6	0.59	0.204
4-Isopropyltoluene	ppbv	ND	0.182	ND	0.182	ND	32.8	ND	0.182
4-Methyl-2-pentanone(MIBK)	ppbv	ND	0.244	ND	0.244	ND	44	ND	0.244
Acetone	ppbv	6.79	0.421	10.3	0.421	ND	75.8	11.6	0.421
Acrylonitrile	ppbv	ND	0.461	ND	0.461	ND	83	ND	0.461
Benzene	ppbv	2.12	0.313	2.16	0.313	ND	56.4	ND	0.313
Benzyl chloride	ppbv	ND	0.193	ND	0.193	ND	34.8	ND	0.193
Bromodichloromethane	ppbv	ND	0.149	ND	0.149	ND	26.9	ND	0.149
Bromoform	ppbv	ND	0.097	ND	0.097	ND	17.4	ND	0.097
Bromomethane	ppbv	ND	0.258	ND	0.258	ND	46.4	ND	0.258
Carbon Disulfide	ppbv	ND	0.321	ND	0.321	ND	57.8	ND	0.321
Carbon Tetrachloride	ppbv	0.06	0.04	ND	0.04	ND	7.14	ND	0.04
Chlorobenzene	ppbv	ND	0.217	ND	0.217	ND	39.1	ND	0.217
Chloroethane	ppbv	ND	0.379	ND	0.379	ND	68.2	ND	0.379
Chloroform	ppbv	0.3	0.205	ND	0.205	ND	36.9	ND	0.205
Chloromethane	ppbv	ND	0.484	ND	0.484	ND	87.2	ND	0.484
Cis-1,2-Dichloroethene	ppbv	ND	0.252	ND	0.252	ND	45.4	ND	0.252
cis-1,3-Dichloropropene	ppbv	ND	0.22	ND	0.22	ND	39.7	ND	0.22
Cyclohexane	ppbv	ND	0.291	ND	0.291	265	52.3	0.34	0.291
Dibromochloromethane	ppbv	ND	0.117	ND	0.117	ND	21.1	ND	0.117
Dichlorodifluoromethane	ppbv	0.46	0.202	8.47	0.202	ND	36.4	ND	0.202
Ethanol	ppbv	3.21	0.531	2.9	0.531	ND	95.6	2.94	0.531
Ethyl acetate	ppbv	0.28	0.278	ND	0.278	ND	50	ND	0.278
Ethylbenzene	ppbv	1.92	0.23	1.53	0.23	55.8	41.5	1.28	0.23
Heptane	ppbv	1.88	0.244	2.03	0.244	ND	43.9	ND	0.244
Hexachlorobutadiene	ppbv	ND	0.094	ND	0.094	ND	16.9	ND	0.094
Hexane	ppbv	3.95	0.284	3.85	0.284	21,300	51.1	0.47	0.284
Isopropylalcohol	ppbv	ND	0.407	ND	0.407	ND	73.3	1.07	0.407
Isopropylbenzene	ppbv	ND	0.204	ND	0.204	ND	36.6	ND	0.204
m,p-Xylene	ppbv	6.09	0.23	4.22	0.23	63	41.5	5.91	0.23
Methyl Ethyl Ketone	ppbv	ND	0.339	1.45	0.339	ND	61.1	1.48	0.339
Methyl tert-butyl ether(MTBE)	ppbv	ND	0.278	ND	0.278	ND	50	ND	0.278
Methylene Chloride	ppbv	ND	0.288	ND	0.288	54	51.8	ND	0.288
n-Butylbenzene	ppbv	ND	0.182	ND	0.182	ND	32.8	ND	0.182
o-Xylene	ppbv	0.58	0.23	0.38	0.23	ND	41.5	2.65	0.23
Propylene	ppbv	0.88	0.581	1.99	0.581	ND	105	ND	0.581
sec-Butylbenzene	ppbv	ND	0.182	ND	0.182	ND	32.8	ND	0.182
Styrene	ppbv	0.28	0.235	ND	0.235	ND	42.3	ND	0.235
Tetrachloroethene	ppbv	12.2	0.037	1.74	0.037	30.6	6.64	1.46	0.037
Tetrahydrofuran	ppbv	1.11	0.339	1.03	0.339	ND	61.1	ND	0.339
Toluene	ppbv	41.5	0.266	39.9	0.266	47,000	47.8	2.19	0.266

Phoenix Environmental Laboratories, Inc.
 587 East Middle Turnpike
 P.O. Box 370
 Manchester, CT 06040
 (860) 645-1102

Project Id : 2701 41ST AVE.

Lab Sample Id	BD47892	BD47893	BD47894	BD83030				
Collection Date	3/14/2013	3/14/2013	3/14/2013	5/22/2013				
Client Id	SG-2	SG-3	SG-4	SG-1				
Matrix	Air	Air	Air	Air				
Units	Result	RL	Result	RL	Result	RL	Result	RL

Soil Gas Results

Volatiles (TO15) By TO15

Trans-1,2-Dichloroethene	ppbv	ND	0.252	ND	0.252	ND	45.4	ND	0.252
trans-1,3-Dichloropropene	ppbv	ND	0.22	ND	0.22	ND	39.7	ND	0.22
Trichloroethene	ppbv	2.09	0.047	0.36	0.047	ND	8.38	ND	0.047
Trichlorofluoromethane	ppbv	0.38	0.178	1.23	0.178	ND	32	2.18	0.178
Trichlorotrifluoroethane	ppbv	ND	0.13	ND	0.13	ND	23.5	ND	0.13
Vinyl Chloride	ppbv	ND	0.098	ND	0.098	ND	17.6	ND	0.098
1,1,1,2-Tetrachloroethane	ug/m3	ND	1	ND	1	ND	180	ND	1
1,1,1-Trichloroethane	ug/m3	12.8	1	2.18	1	ND	180	1.04	1
1,1,2,2-Tetrachloroethane	ug/m3	ND	1	ND	1	ND	180	ND	1
1,1,2-Trichloroethane	ug/m3	ND	1	ND	1	ND	180	ND	1
1,1-Dichloroethane	ug/m3	ND	1	ND	1	ND	180	ND	1
1,1-Dichloroethene	ug/m3	ND	1	ND	1	ND	180	ND	1
1,2,4-Trichlorobenzene	ug/m3	ND	1	ND	1	ND	180	ND	1
1,2,4-Trimethylbenzene	ug/m3	ND	1	ND	1	ND	180	7.81	1
1,2-Dibromoethane(EDB)	ug/m3	ND	1	ND	1	ND	180	ND	1
1,2-Dichlorobenzene	ug/m3	ND	1	ND	1	ND	180	ND	1
1,2-Dichloroethane	ug/m3	ND	1	ND	1	ND	180	ND	1
1,2-dichloropropane	ug/m3	ND	1	ND	1	ND	180	ND	1
1,2-Dichlorotetrafluoroethane	ug/m3	ND	1	ND	1	ND	180	ND	1
1,3,5-Trimethylbenzene	ug/m3	ND	1	ND	1	ND	180	2.55	1
1,3-Butadiene	ug/m3	ND	1	ND	1	ND	180	ND	1
1,3-Dichlorobenzene	ug/m3	ND	1	ND	1	ND	180	ND	1
1,4-Dichlorobenzene	ug/m3	ND	1	ND	1	ND	180	ND	1
1,4-Dioxane	ug/m3	ND	1	ND	1	ND	180	ND	1
2-Hexanone(MBK)	ug/m3	ND	1	ND	1	ND	180	ND	1
4-Ethyltoluene	ug/m3	ND	1	ND	1	ND	180	2.9	1
4-Isopropyltoluene	ug/m3	ND	1	ND	1	ND	180	ND	1
4-Methyl-2-pentanone(MIBK)	ug/m3	ND	1	ND	1	ND	180	ND	1
Acetone	ug/m3	16.1	1	24.4	1	ND	180	27.5	1
Acrylonitrile	ug/m3	ND	1	ND	1	ND	180	ND	1
Benzene	ug/m3	6.77	1	6.9	1	ND	180	ND	1
Benzyl chloride	ug/m3	ND	1	ND	1	ND	180	ND	1
Bromodichloromethane	ug/m3	ND	1	ND	1	ND	180	ND	1
Bromoform	ug/m3	ND	1	ND	1	ND	180	ND	1
Bromomethane	ug/m3	ND	1	ND	1	ND	180	ND	1
Carbon Disulfide	ug/m3	ND	1	ND	1	ND	180	ND	1
Carbon Tetrachloride	ug/m3	0.377	0.25	ND	0.25	ND	44.9	ND	0.25
Chlorobenzene	ug/m3	ND	1	ND	1	ND	180	ND	1
Chloroethane	ug/m3	ND	1	ND	1	ND	180	ND	1
Chloroform	ug/m3	1.46	1	ND	1	ND	180	ND	1
Chloromethane	ug/m3	ND	1	ND	1	ND	180	ND	1
Cis-1,2-Dichloroethene	ug/m3	ND	1	ND	1	ND	180	ND	1
cis-1,3-Dichloropropene	ug/m3	ND	1	ND	1	ND	180	ND	1
Cyclohexane	ug/m3	ND	1	ND	1	912	180	1.17	1
Dibromochloromethane	ug/m3	ND	1	ND	1	ND	180	ND	1
Dichlorodifluoromethane	ug/m3	2.27	1	41.8	1	ND	180	ND	1
Ethanol	ug/m3	6.04	1	5.46	1	ND	180	5.54	1
Ethyl acetate	ug/m3	1.01	1	ND	1	ND	180	ND	1
Ethylbenzene	ug/m3	8.33	1	6.64	1	242	180	5.55	1
Heptane	ug/m3	7.7	1	8.31	1	ND	180	ND	1
Hexachlorobutadiene	ug/m3	ND	1	ND	1	ND	180	ND	1
Hexane	ug/m3	13.9	1	13.6	1	75,000	180	1.66	1
Isopropylalcohol	ug/m3	ND	1	ND	1	ND	180	2.63	1
Isopropylbenzene	ug/m3	ND	1	ND	1	ND	180	ND	1
m,p-Xylene	ug/m3	26.4	1	18.3	1	273	180	25.6	1
Methyl Ethyl Ketone	ug/m3	ND	1	4.27	1	ND	180	4.36	1
Methyl tert-butyl ether(MTBE)	ug/m3	ND	1	ND	1	ND	180	ND	1
Methylene Chloride	ug/m3	ND	1	ND	1	187	180	ND	1
n-Butylbenzene	ug/m3	ND	1	ND	1	ND	180	ND	1
o-Xylene	ug/m3	2.52	1	1.65	1	ND	180	11.5	1

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Collection Date	3/14/2013	3/14/2013	3/14/2013	5/22/2013
Client Id	SG-2	SG-3	SG-4	SG-1
Matrix	Air	Air	Air	Air

Units	Result	RL	Result	RL	Result	RL	Result	RL
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Soil Gas Results

Volatiles (TO15) By TO15

Propylene	ug/m3	1.51	1	3.42	1	ND	180	ND	1
sec-Butylbenzene	ug/m3	ND	1	ND	1	ND	180	ND	1
Styrene	ug/m3	1.19	1	ND	1	ND	180	ND	1
Tetrachloroethene	ug/m3	82.7	0.25	11.8	0.25	207	45	9.9	0.25
Tetrahydrofuran	ug/m3	3.27	1	3.04	1	ND	180	ND	1
Toluene	ug/m3	156	1	150	1	177,000	180	8.25	1
Trans-1,2-Dichloroethene	ug/m3	ND	1	ND	1	ND	180	ND	1
trans-1,3-Dichloropropene	ug/m3	ND	1	ND	1	ND	180	ND	1
Trichloroethene	ug/m3	11.2	0.25	1.93	0.25	ND	45	ND	0.25
Trichlorofluoromethane	ug/m3	2.13	1	6.91	1	ND	180	12.2	1
Trichlorotrifluoroethane	ug/m3	ND	1	ND	1	ND	180	ND	1
Vinyl Chloride	ug/m3	ND	0.25	ND	0.25	ND	45	ND	0.25

Result Detected