NOTIFICATION ADDENDUM
TO
EXCAVATION WORK PLAN

2137 SENECA STREET SITE

BUFFALO, NEW YORK

VOLUNTARY CLEANUP PROGRAM
SITE NO. V-00370-9

October 2011 0226-003-100

Prepared for:

2137 Seneca, LLC

EXCAVATION WORK PLAN

2137 Seneca Street Site
Buffalo, New York

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EXCAVATION WORK PLAN

2137 Seneca Street Site
Buffalo, New York

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1.0 INTRODUCTION

This document presents the proposed scope of work and implementation procedures for completion of redevelopment activities in accordance with the New York State Department of Environmental Conservation (NYSDEC or Department) approved Site Management Plan (SMP) for the Parcel-2 Site, located at 2137 Seneca Street, Buffalo, New York (Site), which was remediated under the Voluntary Cleanup Program (VCP) Site (V-00370).

2137 Seneca, LLC plans to redevelop the Site for commercial use. This excavation notification is being submitted in accordance with the Department's approved Site Management Plan (SMP) dated May 2011. An electronic copy of the SMP's Excavation Work Plan is included within Appendix B.

1.1 Background

The completed environmental remediation of the Site was undertaken by GE Capital Franchise Finance Corporation (GEFF) as a non-responsible party under the NYSDEC's VCP. Environmental investigations found that the Site had been contaminated by chlorinated volatile organic compounds (cVOCs), and cleanup efforts were completed at the Site between 2003 and 2009. After review and approval of the Final Engineering Report (FER) and implementation of the SMP, the NYSDEC issued a closure letter to GEFF, which allows for redevelopment of the Site.

1.2 Purpose

The purpose of this work plan is to notify the NYSDEC of intrusive activities that are planned which may encounter remaining contamination on-Site during redevelopment activities. This work plan has been prepared in accordance with the Department's approved SMP (May 2011) and NYSDEC DER-10 (May 2010).

All intrusive activities will comply with the existing SMP, which includes the Excavation Work Plan (EWP); and in accordance with 29 CFR 1910.120.

1.3 Project Schedule

A tentative project schedule is presented below.

- **October-November 2011** – Demolition of the existing building, excavation for building footers and utilities, and site grading
- **November-December 2011** – Construction of new building, preparation and completion of asphalt and concrete parking areas and walkways
- **February-March 2012** – Construction complete
- **April-May 2012** – Preparation of Construction Closeout Report.

2.0 SITE DESCRIPTION

2.1 General

The Parcel-2 Site is located in the City of Buffalo, County of Erie, New York and is identified as SBL No. 133.26-7-1.1 on the Erie County Tax Map. The Site is an approximately 0.66-acre parcel located at the corner of Seneca Street and Kingston Place, and addressed at 2137 Seneca Street (see Figures 1 and 2 of the SMP, attached). The Site is currently vacant with a single story former retail restaurant building and asphalt and concrete parking areas.

2.2 Site History

Historically, site use included a dry cleaning operation from at least the 1950s until 1982, which appears to have impacted the Site with dry cleaning related chemicals, primarily chlorinated volatile organic compounds (cVOCs) including tetrachloroethene (PCE). GE Capital Franchise Finance Corporation, the non-responsible volunteer, entered the VCP in July 2001 and subsequently remediated the Site under the oversight of NYSDEC from 2003 through 2009. The Site Management Plan was approved by the NYSDEC in May 2011.

2.3 Summary of Remedial Actions

Previous environmental investigations identified the presence of PCE, and other degradation by-products on-Site. Remedial activities commenced in 2003 and were completed in 2009. A brief summary of the remedial activities is presented below.

- October 2003 - Excavation and off-site disposal of approximately 1,800-tons of contaminated soil in the northeast quadrant of the Site (former dry cleaner location). The excavation was continued from surface to approximately 10-fbgs, and backfilled with clean blended gravel.
- Implementation of in-situ groundwater treatment was implemented in the northeast quadrant, including:
    - April 2004 – May 2005 – Four applications of potassium permanganate reagent. Groundwater monitoring was implemented in association with the in-Situ treatment to monitor contaminate degradation.

- September 2007 & September 2008 – Injections of Zero Valence Iron (ZVI) and Hydrogen Release Compound (HRC).
- November 2009 – Injection of ZVI and EHC.

- Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the Site.

2.3.1 Remaining Contamination

The contamination remaining at the Site is primarily contained within groundwater located in the northeast quadrant of the Site including certain cVOCs, primarily tetrachloroethene, trichloroethene, cis-1,2,-dichloroehtene, and vinyl chloride. Based on the planned location, depth of building foundations and utilities excavations, it is unlikely that redevelopment activities will encounter remaining contamination; however, the approved SMP will be followed during redevelopment activities.

A summary of the environmental conditions in the planned work areas is discussed in Section 3.4 below.

3.0 REDEVELOPMENT ACTIVITIES

2137 Seneca Street, LLC plans to redevelop the Site for commercial use by constructing an approximately 10,000 sq-ft retail store and associated parking areas. The prepared construction drawings (C&S Companies; et al.) including site plan, demolition plan, utility plan, and grading plan are attached.

3.1 Site Preparation

3.1.1 Utility Clearance

Dig Safely New York (Call 811) will be contacted by the site contractor a minimum of three business days in advance of the work and informed of the intent to perform excavation work at the Site.

3.1.2 City of Buffalo Permits

The Site redevelopment contractor will acquire the necessary City of Buffalo demolition, building and utility permits prior to initiation of the associated phase of the redevelopment.

3.1.3 Building Demolition

Prior to intrusive redevelopment activities, the existing former convenience store building will be demolished. The existing asphalt will be removed and recycled at an approved off-Site facility.

3.2 Waste Characterization

Soil/fill waste characterization samples will be collected and analyzed prior to off-Site disposal at a permitted disposal facility. Waste characterization samples will be analyzed for toxicity characteristic leaching procedure (TCLP) VOCs, TCLP SVOCs, TCLP metals, ignitability, reactivity and pH to allow for landfill disposal approval.

3.3 Monitoring Well Decommissioning

Based on the location of the new building, four monitoring wells, MW-1, MW-3, MW-5, and MW-6 will be decommissioned in accordance with NYSDEC CP-43 guidance. Locations are shown on Figure 16 of the SMP, attached.

Additionally, former injection wells located in the northeast quadrant of the Site will be inspected, and decommissioned, if necessary. Service boxes related to the former injection well locations, located along Kingston Place will be removed during site redevelopment activities.

3.4 Excavation Activities

Planned excavations related to building foundation and on-Site utilities are expected to reach a depth of approximately 4-6 feet below ground surface (fbgs). Groundwater is not expected to be encountered, as depth varies across the site from 8-10 fbgs. If groundwater is encountered, it will be handled in accordance with the SMP.

3.4.1 Building Excavation

Excavation activities related to the new building will be located in the southern section of the Site, outside of the previously completed remedial excavation and in-Situ groundwater treatment areas (see Architectural Drawing C1.01 for building location).

Previous investigations indicate that soils which may be encountered during building foundation excavations (i.e., SB-14, SB-13, SB-26, SB11, SB-27, and SB-8) are below unrestricted SCOs. One soil boring, SB-09, indicates soils slightly exceeding Commercial SCOs for PAHs, and if impacted material is encountered during foundation excavation, materials will be handled in accordance with the SMP.

3.5 Excavated Material

Any excavated material, which is deemed unacceptable for reuse in accordance with the SMP and DER-10, is planned for off-Site disposal at Modern Landfill, Model City, NY. Landfill disposal documents, including the application, approval letter, and weight manifests will be provided to the Department.

3.6 Backfill Materials

3.6.1 Soil

Imported soil backfill must meet the criteria as presented on Table 5 of the approved SMP, which is currently Commercial SCOs, as well as the following criteria:

- Off-site soil/fill will originate from known sources having no evidence of disposal or releases of hazardous substances, hazardous, toxic or radioactive wastes, or petroleum.
- No off-site materials meeting the definition of a solid waste as defined in 6NYCRR, Part 360-1.2(a) shall be used as backfill.

3.6.1.1 Soil Characterization Requirements

In addition to the above criteria, all backfill materials which requires laboratory analysis, will be subject to the following characterization requirements:

- Off-site material will be sampled according to the following schedule:
  - 1 composite per 500 cubic yards of soil for the first 1,000 cubic yards
  - 1 composite per 1,000 cubic yards of soil thereafter.

Each composite will be comprised of a minimum of three grab samples (samples for VOC analysis will be collected as individual grabs in lieu of composites). Samples will be analyzed for the following constituents in accordance with USEPA SW-846 methodology:

- Target Compound List (TCL) VOCs - Method 8260B
- TCL SVOCs - Method 8270C
- TCL Organochlorine Pesticides and PCBs - Method 8081A/8082
- TAL Metals – Method 6010B
- Cyanide - Method 9013
- Herbicides – Method 8051A

Only materials that contain concentrations of these organic compounds and metals at or below concentrations on Table 5 of the SMP will be used. Characterization testing for

off-site sources will be performed by an independent, NYSDOH ELAP-approved laboratory.

3.6.2 Sub-grade Stone

Two (2) potential sources of off-site sub-grade backfill material are listed below. In accordance with DER-10, Section 5.4(e)(5)(i and ii), the sources will not require chemical testing.

- 2" Run of Crush – Buffalo Crushed Stone, Wehrle Pit. Sieve analysis is included in Attachment A.

- Recycled Concrete – Standard Slinger Services, LLC (Battaglia) is a registered concrete recycling facility (ID No. 15W52). Sieve analysis is included in Attachment A.

3.7 Building Subslab Depressurization System (Passive)

In accordance with the SMP and subsequent correspondence with the NYSDEC and NYSDOH, a passive subslab depressurization system will be installed within the new building. If VOC impacted material is encountered during construction activities for the new building, the passive system will be converted to an active fan system. The Department will be notified if any impacted material is encountered.

4.0 EXCAVATION WORK PLAN SUPPORT DOCUMENTS

During intrusive activities, a copy of the EWP will be located on-Site.

4.1 Health and Safety Protocols

The approved SMP includes an example Health and Safety Plan (HASP). The HASP, provided in Appendix D of the SMP, includes the following site-specific information:

- A hazard assessment.
- Training requirements.
- Definition of exclusion, contaminant reduction, and other work zones.
- Monitoring procedures for site operations.
- Safety procedures.
- Personal protective clothing and equipment requirements for various field operations.
- Disposal and decontamination procedures.

The HASP also includes a contingency plan that addresses potential site-specific emergencies.

4.2 Community Air Monitoring Plan

A Community Air Monitoring Plan (CAMP) was prepared as part of the approved SMP for the Site. The CAMP describes the required particulate and vapor monitoring to protect the neighboring community during intrusive activities is included in Appendix C of the SMP. The Excavation Work Plan, which includes the CAMP, has been included for reference within Appendix B of this Addendum electronically.

5.0 REPORTING

Upon completion of the redevelopment activities, a comprehensive report will be completed summarizing the tasks completed as described below.

5.1.1 Construction Monitoring

Standard daily reporting procedures will include preparation of a daily report and, when appropriate, problem identification and corrective measures reports. Information that may be included on the daily report form includes:

- Processes and locations of construction under way.
- Equipment and personnel working in the area, including subcontractors.
- Number and type of truckloads of soil/fill removed from the site.
- A description of off-site materials received, if any

The completed reports will be included as part of the Construction Closeout Report. The NYSDEC will be promptly notified of problems requiring modifications to this Work Plan prior to proceeding or completion of the construction item.

Photo documentation of the intrusive activities will be prepared by TurnKey throughout the duration of the project as necessary to convey typical work activities and whenever changed conditions or special circumstances arise.

5.1.2 Construction Closeout

A summary of the construction will be included in the report submitted to the NYSDEC. The report will include:

- A Site or area planimetric map showing the parcel;
- Summaries of unit quantities, including: volume of soil/fill excavated; disposition of excavated soil/fill; and volume/type/source of backfill.
- Text describing that the excavation activities were performed in accordance with this Work Plan.

6.0 REFERENCES

1. New York State Department of Environmental Conservation. *DER-10; Technical Guidance for Site Investigation and Remediation.* May 2010.

2. New York State Department of Environmental Conservation. *CP-43: Groundwater Monitoring Well Decommissioning Policy.* November 2009.

3. URS Corporation. *Pizza Hut, Parcel 2, Seneca Street, Buffalo, New York, Site Management Plan, NYSDEC VCP Site Number: V-00370-9.* May 2011.

TABLES

TABLE 5

NEW YORK STATE STANDARDS, CRITERIA AND GUIDANCE (SCG) FOR COMPOUNDS OF CONCERN

GE FRANCHISE FINANCE - PARCEL 2
2139 SENECA STREET
BUFFALO, NEW YORK

		6NYCRR Part 375 Soil Cleanup Objectives (mg/kg)					
Volatile Organic Compounds	**TAGM Std (mg/kg)**	**Unrestricted Use (Track 1)**	**Residential**	**Restricted Residential**	**Commercial**	**Protection of Ecological Resources**	**Protection of Groundwater**
Acetone	0.200	0.05	100[a]	100[a]	500[b]	2.2	0.05
cis-1,2-Dichloroethene	NS	0.25	59	100[a]	500[b]	NS	0.25
Methylene chloride	0.100	0.05	51	100[a]	500[b]	12	0.05
Tetrachloroethene	1.4	1.3	5.5	19	150	2	1.3
trans-1,2-Dichloroethene	0.300	0.19	100[a]	100[a]	500[b]	NS	0.19
Trichloroethene	0.700	0.47	10	21	200	2	0.47
Vinyl chloride	0.200	0.02	0.21	0.9	13	NS	0.02
Semivolatile Organic Compounds							
Acenaphthene	50	20	100[a]	100[a]	500[b]	20	98
Anthracene	50.0	100[a]	100[a]	100[a]	500[b]	NS	1000[c]
Benzo(a)anthracene	0.224	1[c]	1[f]	1[f]	5.6	NS	1[f]
Benzo(a)pyrene	0.061	1[c]	1[f]	1[f]	1[f]	2.6	22
Benzo(b)fluoranthene	1.1	1[c]	1[f]	1[f]	5.6	NS	1.7
Benzo(g,h,i)perylene	50.0	100	100[a]	100[a]	500[b]	NS	1000[c]
Benzo(k)fluoranthene	1.1	0.8[c]	1	3.9	56	NS	1.7
bis(2-Ethylhexyl)phthalate	NS	NS	NS	NS	NS	NS	NS
Chrysene	0.400	1[c]	1[f]	3.9	56	NS	1[f]
Diethyl phthalate	NS	NS	NS	NS	NS	NS	NS
Di-n-butylphthalate	8.1	NS	NS	NS	NS	NS	NS
Di-n-octyl phthalate	50	NS	NS	NS	NS	NS	NS
Fluoranthene	50.0	100[a]	100[a]	100[a]	500[b]	NS	1000[c]
Indeno(1,2,3-cd)pyrene	3.2	0.5[c]	0.5[f]	0.5[f]	5.6	NS	8.2
Phenanthrene	50.0	100	100[a]	100[a]	500[b]	NS	1000[c]
Pyrene	50.0	100	100[a]	100[a]	500[b]	NS	1000[c]
Metals							
Arsenic	7.5	13[c]	16[f]	16[f]	16[f]	13[f]	16[f]
Barium	300	350[c]	350[f]	400	400	433	820
Cadmium	1	2.5[c]	2.5[f]	4.3	9.3	4	7.5
Chromium	10	30[c]	36	180	1500	41	NS
Copper	25	50	270	270	270	50	1720
Iron	2000	NS	NS	NS	NS	NS	NS
Mercury	0.1	0.18[c]	0.81[j]	0.81[j]	2.8[j]	0.18[j]	0.73
Nickel	13	30	140	310	310	30	130
Zinc	20	109[c]	2200	10000[d]	10000[d]	109[f]	2480

TABLE 5 (Continued)

TAGM Std. = New York State Recommended Soil Cleanup Objective, Technical and Administrative Guidance Memorandum (TAGM) #4046, January 24, 1994

mg/kg = milligrams per kilogram or parts per million (ppm)

NS = No Standard

a = The Soil Cleanup Objectives (SCOs) for residential, restricted-residential, and ecological use were capped at a maximum value of 100 ppm. See TSD Section 9.3

b = The Soil Cleanup Objectives (SCOs) for commercial use were capped at a maximum value of 500 ppm. See TSD Section 9.3

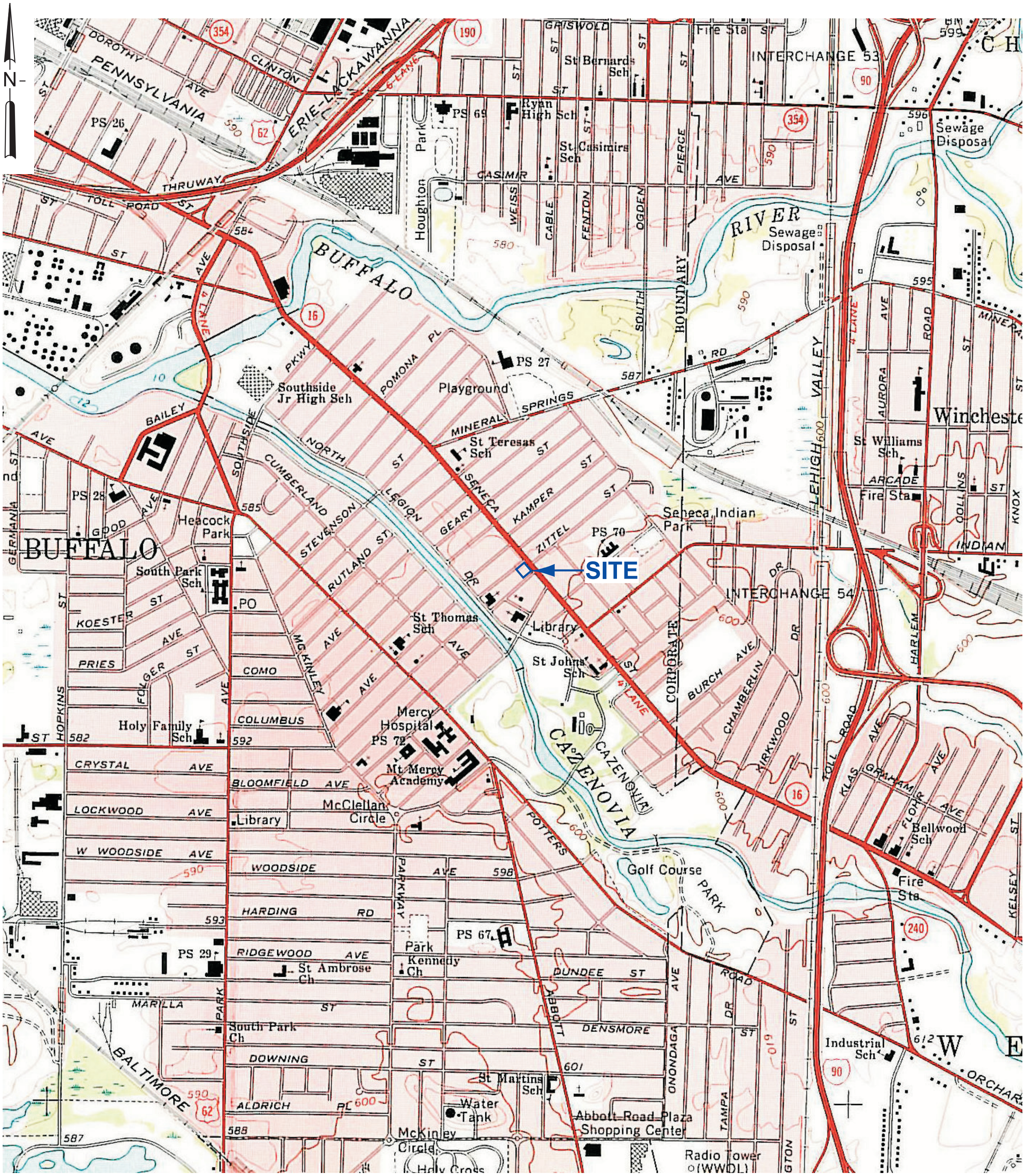
c = The SCOs for industrial use and the protection of groundwater were capped at a maximum value of 1,000 ppm. See Section 9.3

d = The SCOs for metals were capped at a maximum value of 10,000 ppm. See TSD Section 9.3

j = This SCO is the lower of the values for mercury (elemental) or mercury (inorganic salts). See TSD Table 5.6-1

f = For constituents where the calculated SCO was lower than the rural soil background concentration as determined by the Department of Health rural soil survey, the rural soil background concentration is used as the Track 2 SCO value for this use of the site

FIGURES



0 2000 4000

SCALE IN FEET

BASE MAP SOURCE: USGS 7 1/2 minute topographic quadrangle map Buffalo SE, New York 1965.

Quadrangle Location

GENERAL ELECTRIC

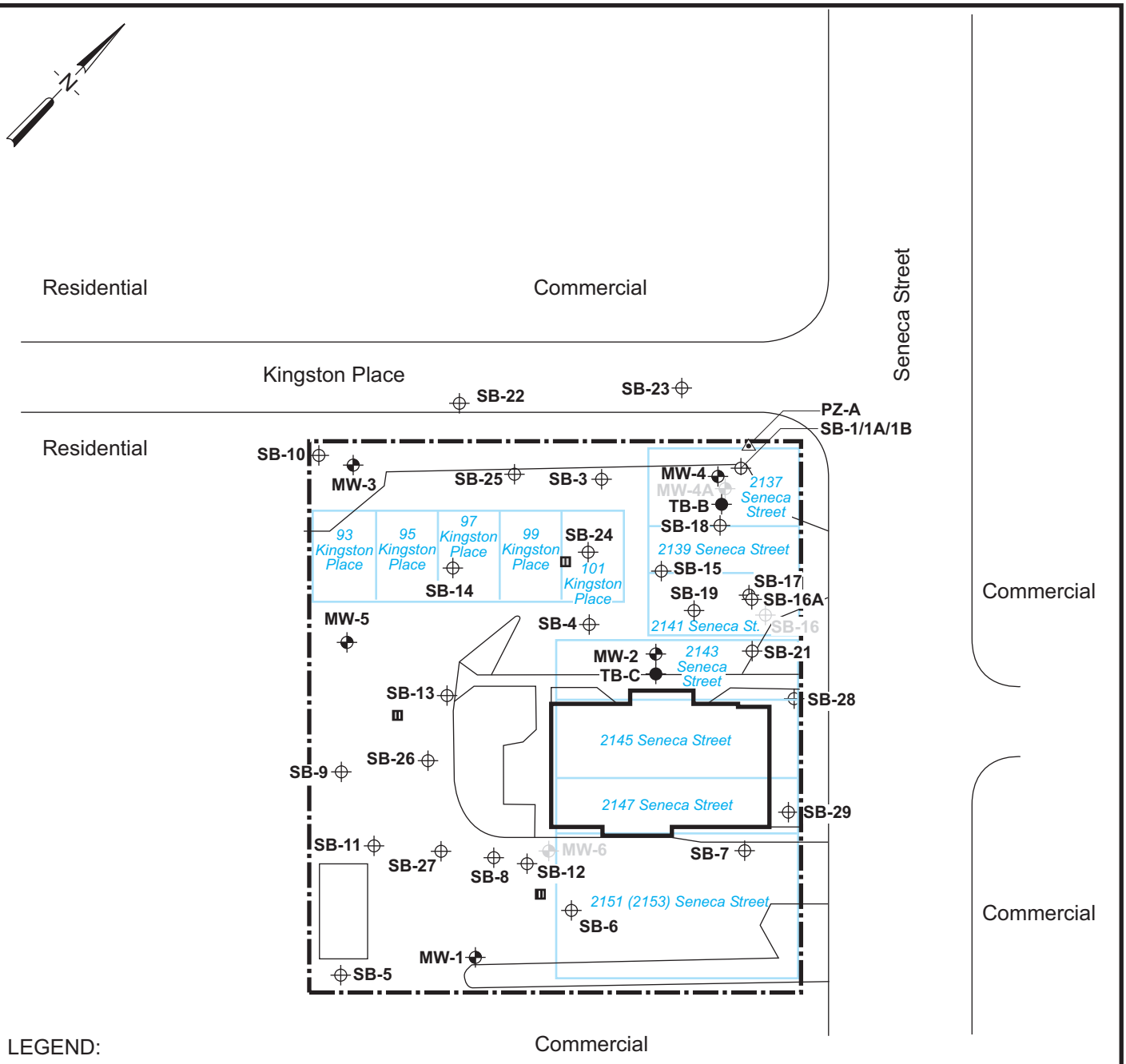
FRANCHISE FINANCE CORPORATION

FIGURE 1
SITE VICINITY MAP
2139 SENECA STREET
BUFFALO, NEW YORK

JOB NO. 14964473

URS

GE FF – 14964473.00803 – BUFFALO, NEW YORK – SITE MGT PLAN – CHECKED BY



LEGEND:

- Property Boundary
- Stormwater Drain
- Pre-Remedial Monitoring Well
- Pre-Remedial Monitoring Well (No Soil Sample Collected)
- Pre-Remedial Piezometer (URS, 2006)
- Pre-Remedial Soil Boring (URS, 2006)
- Pre-Remedial Soil Boring
- Pre-Remedial Soil Boring (No Soil Sample Collected)
- 93 Kingston Place — Historic Building and Property Address

0 50 100

APPROXIMATE SCALE IN FEET

NOTE: Soil boring locations (SB Series) and historic property addresses were extrapolated from Figures 2.2 and 2.3 of Final SIte Investigation Report and Feasibility Study by CRA (March 2003).

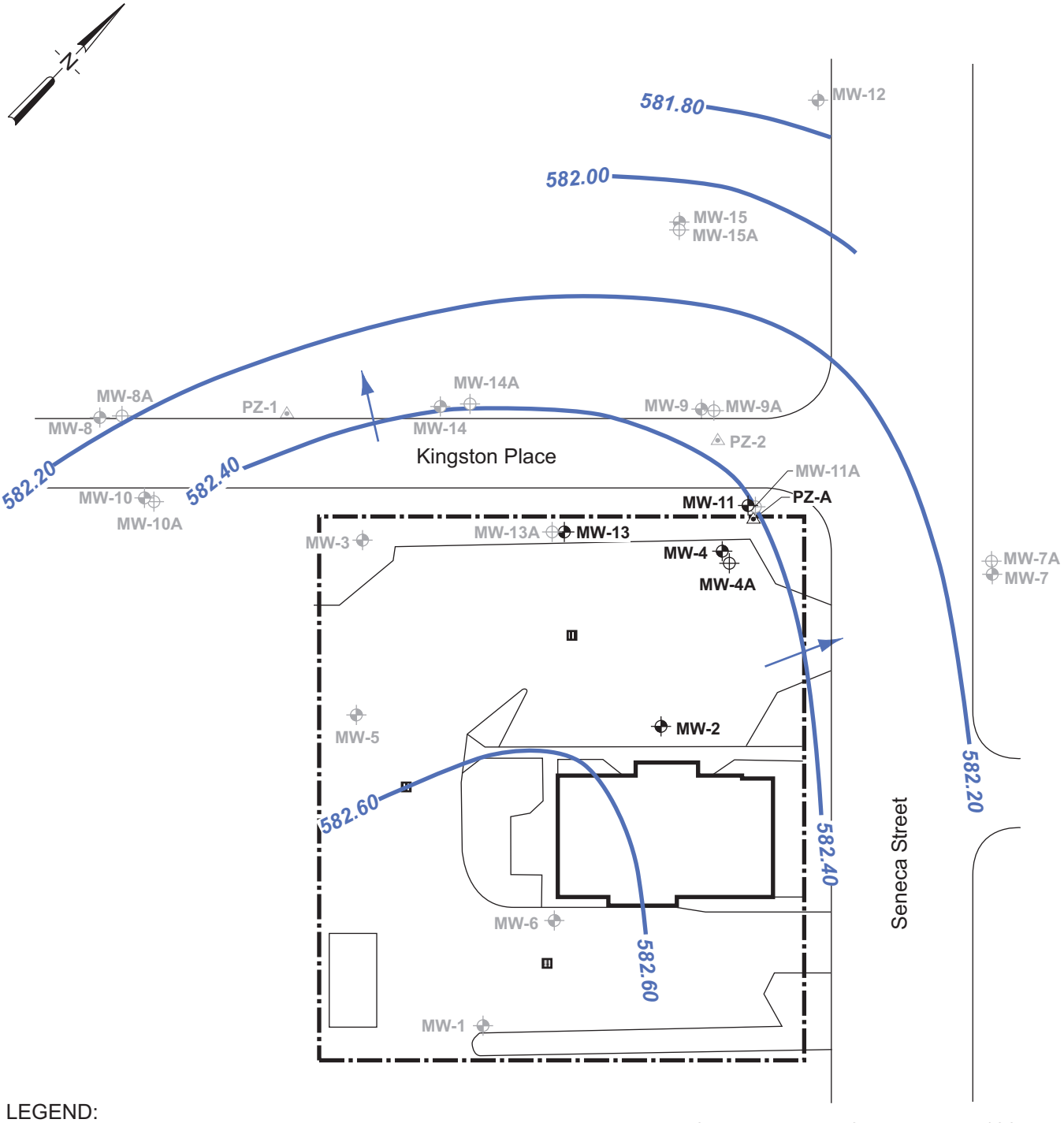
GENERAL ELECTRIC
FRANCHISE FINANCE CORPORATION

FIGURE 2
SITE LAYOUT MAP SHOWING PRE-REMEDIAL SAMPLING LOCATIONS AND HISTORIC ADDRESSES
2139 SENECA STREET
BUFFALO, NEW YORK

JOB NO. 14964473

URS

GE FF – 14964473.00803 – BUFFALO, NEW YORK – SITE MGT PLAN – CHECKED BY



LEGEND:

- Property Boundary
- Stormwater Drain
- Shallow Monitoring Well To Be Sampled
- Deep Monitoring Well To Be Sampled
- Piezometer To Be Sampled
- Shallow Monitoring Well To Be Decommissioned
- Deep Monitoring Well To Be Decommissioned
- 582.60 Shallow Potentiometric Elevation Contour (Feet, msl), (Groundwater Measurements from June 23, 2010)
- Apparent Groundwater Flow Direction

0 50 100

APPROXIMATE SCALE IN FEET

NOTE: CVOC concentration is defined as PCE and its daughter products (TCE, cis-1,2-DCE. trans-1,2-DCE, 1,1-DCE and vinyl chloride).

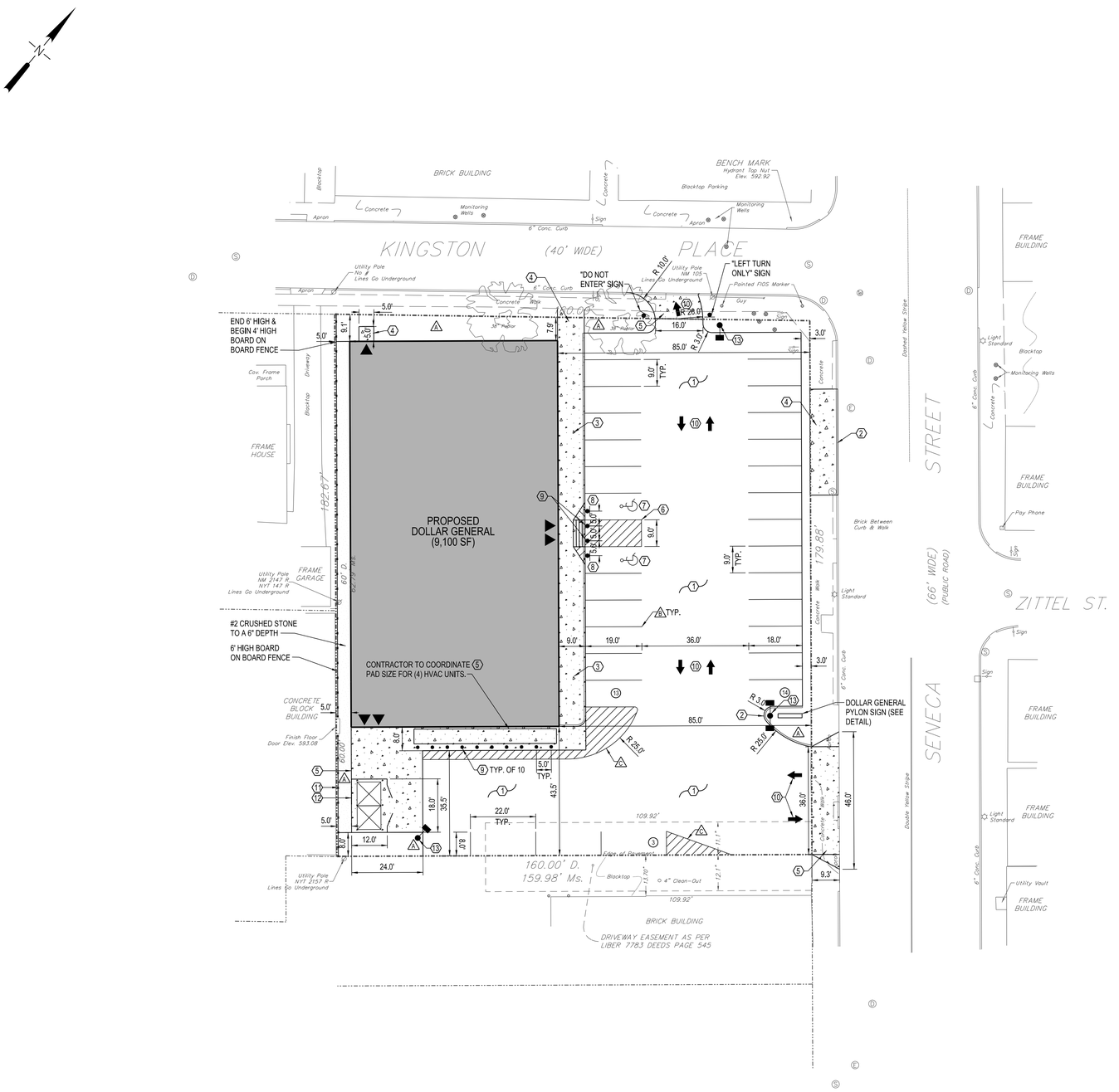
GENERAL ELECTRIC
FRANCHISE FINANCE CORPORATION

FIGURE 16
PLANNED GROUNDWATER MONITORING SYSTEM
2139 SENECA STREET
BUFFALO, NEW YORK

JOB NO. 14964473

URS

GE FF – 14964473.00803 – BUFFALO, NEW YORK – SITE MGT PLAN – CHECKED BY



GENERAL NOTES

1. SURVEY WAS MADE IN ACCORDANCE WITH THE REQUIREMENTS FOR ALTA/ACSM LAND SURVEY TITLES AS ADOPTED BY AMERICAN LAND TITLE ASSOCIATION. SURVEY WAS PROVIDED BY MILLARD, McKAY & DELLES, LAND SURVEYORS, LLP DATED 5-16-2011. C&S ENGINEERS, INC. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

2. CONTRACTOR TO VERIFY ALL FIELD CONDITIONS AND UTILITY LOCATIONS PRIOR TO THE START OF CONSTRUCTION. CONTACT THE ENGINEER WITH ANY DISCREPANCIES FOUND IN THE FIELD.

3. ALL DIMENSIONS FROM PROPERTY LINES ARE 90° FROM PROPERTY LINE UNLESS OTHERWISE NOTED.

4. COORDINATE EXACT LOCATION OF SIDEWALKS AT DOORWAYS WITH ARCHITECTURAL PLANS.

PROPOSED LEGEND

- PROPERTY LINE
- PROPOSED SIGN
- PROPOSED CONCRETE PAVEMENT / SIDEWALK
- PROPOSED CONCRETE CURB
- (5) NUMBER OF PARKING SPACES
- DOOR LOCATION
- E.P. EDGE OF PAVEMENT
- LIGHTING FIXTURES

NOTE LEGEND

- (A) 4" TOPSOIL & SEED IF NO PLANTINGS-SEE LANDSCAPING PLAN.
- (A) 4" WIDE PAINTED YELLOW PAVEMENT STRIPES
- (A) 4" WIDE PAINTED YELLOW PAVEMENT STRIPES @ 45° AND 2'-0" O.C.

DETAIL LEGEND

1. HEAVY DUTY ASPHALT PAVEMENT
2. TYPE A CURB
3. INTEGRAL CURB/SIDEWALK
4. CONCRETE SIDEWALK
5. EXTERIOR CONCRETE SLAB-ON-GRADE
6. HANDICAP PAVEMENT MARKINGS
7. INTERNATIONAL HANDICAP SYMBOL
8. HANDICAP OR "NO PARKING" SIGN
9. BOLLARD
10. TRAFFIC ARROWS
11. BOARD FENCE
12. DUMPSTER ENCLOSURE
13. LIGHT POLE BASE

SITE DATA

ACREAGE: 28,999 SF

BUILDING COVERAGE: 9,100 SF

PAVEMENT: 18,024 SF

PROVIDED GREENSPACE: 1,875 SF (6.5%)

PROVIDED PARKING: 30 (INCLUDES 2 HC)

20' 20 0 20 40F t.

C&S COMPANIES®
C&S Engineers, Inc.
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DOLLAR GENERAL FOR CREATIVE STRUCTURES SERVICES SENECA STREET & KINGSTON PLACE BUFFALO, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO:	K20.002.001
DATE:	6-3-11
SCALE:	AS SHOWN
DRAWN BY:	JMH
DESIGNED BY:	JMH
CHECKED BY:	LD

CIVIL

SITE PLAN

C1.01

USER
DATE
SYTIME
TIME

CADD NO.

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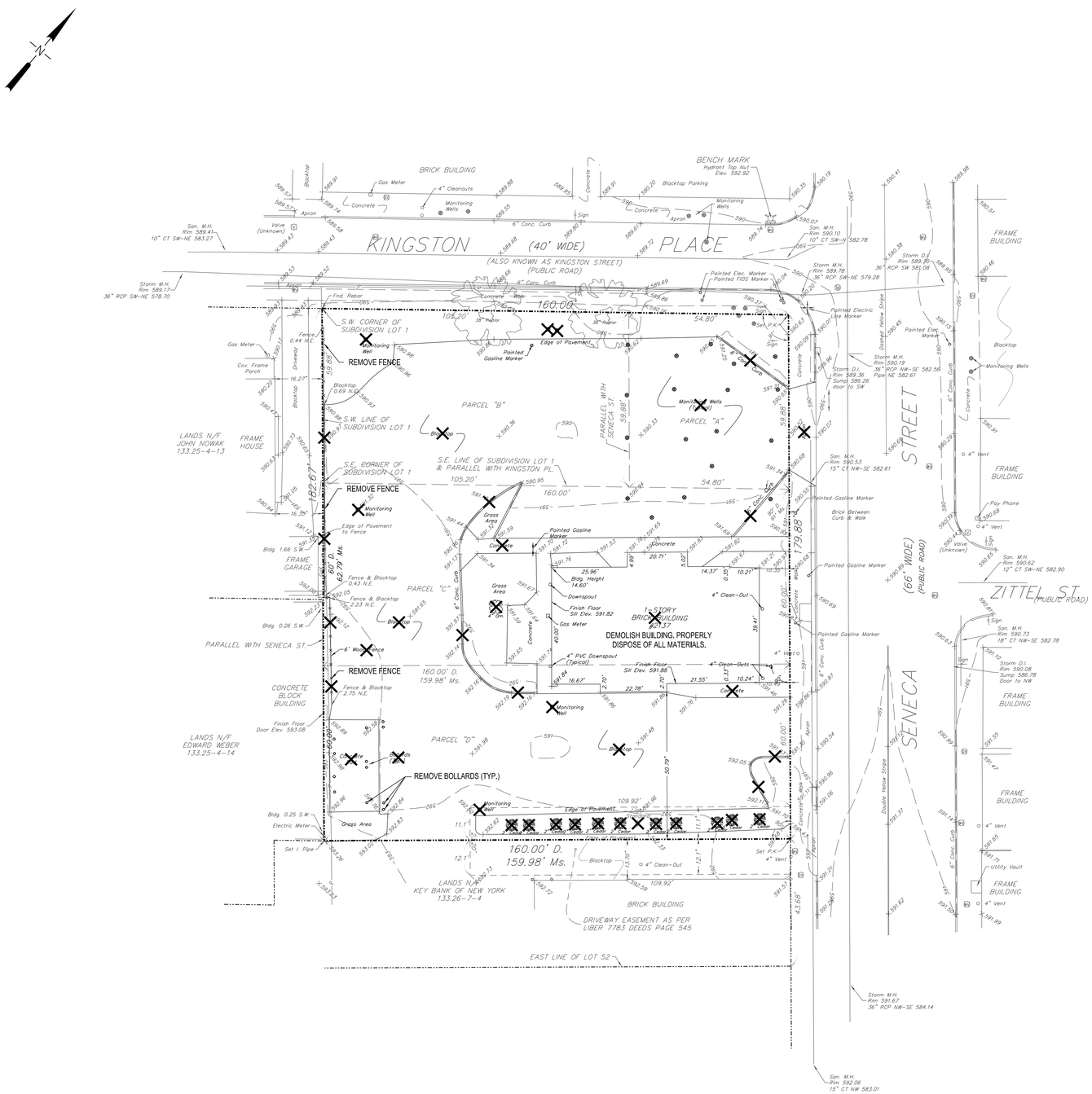

DEMOLITION NOTES:

1. THIS PLAN WAS PREPARED USING THE TOPOGRAPHICAL SURVEY FROM MILLARD, MACKAY & DELLES DATED 05-16-2011. C&S ENGINEERS, INC. ASSUMES NO RESPONSIBILITY FOR ITS ACCURACY.

2. CONTRACTOR TO REMOVE & DISPOSE OF ALL ITEMS INDICATED & ANY ITEMS INCIDENTAL TO THE CONSTRUCTION AS REQUIRED.

3. CONTRACTOR SHALL PROTECT/PRESERVE ALL EXISTING ITEMS TO REMAIN, INCLUDING, BUT NOT LIMITED TO BUILDINGS, PAVEMENT, OVERHEAD & BURIED UTILITIES, TREES LANDSCAPING, ETC. DAMAGE TO ITEMS SCHEDULED TO REMAIN SHALL BE REPAIRED OR REPLANTED AT NO ADDITIONAL COST TO THE OWNER.

4. UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL HAVE ALL UNDER -GROUND FACILITIES LOCATED AND MARKED PRIOR TO EXCAVATION/DEMOLITION/ CONSTRUCTION.

5. ALL UTILITY TERMINATIONS SHALL BE IN ACCORDANCE W/ THE APPLICABLE UTILITY COMPANY REQUIREMENTS.

6. CONTRACTOR SHALL LEGALLY DISPOSE OF ALL MATERIALS/DEBRIS REMOVED FROM THE SITE.

7. CONTRACTOR TO OBTAIN HIGHWAY WORK PERMIT PRIOR TO THE START OF CONSTRUCTION. CALL FOR STAKEOUT OF UTILITIES BEFORE STARTING WORK. NOTIFY ENGINEER OR OWNER'S REPRESENTATIVE OF ANY DISCREPANCIES FOUND IN THE FIELD.

8. THIS PLAN IS PREPARED FROM A SURVEY SHOWING KNOWN SURFACE FEATURES. IT IS INTENDED AS A GUIDE TO THE CONTRACTOR, NOT AS A COMPLETE AND UNIVERSAL DEMOLITION PLAN. SEE THE SITE PLAN. MORE FEATURES (NOT INDICATED) MAY REQUIRE DEMOLITION TO CONSTRUCT THE SITE PLAN. CONTRACTOR MUST VISIT THE SITE TO CONFIRM DEMOLITION EFFORT PRIOR TO BIDDING.

9. REMOVE CONCRETE SIDEWALK AND/OR PAVEMENT TO THE LIMITS INDICATED. SAW CUT CONCRETE TO THE NEAREST EXISTING CONTROL/EXPANSION JOINT.

10. BUILDING DEMOLITION SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL GUIDELINES.

LEGEND

	PROPERTY LINE
591	EXISTING CONTOUR
TC	TOP OF CURB
BC	BOTTOM OF CURB
	FLOW DIRECTION
X	ITEM TO BE REMOVED

20' 0 20 40Ft.

CADD NO.

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DOLLAR GENERAL FOR CREATIVE STRUCTURES SERVICES SENECA STREET & KINGSTON PLACE BUFFALO, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO:	K20.002.001
DATE:	6-3-11
SCALE:	AS SHOWN
DRAWN BY:	JMH
DESIGNED BY:	JMH
CHECKED BY:	LD

CIVIL

DEMOLITION PLAN

C1.02

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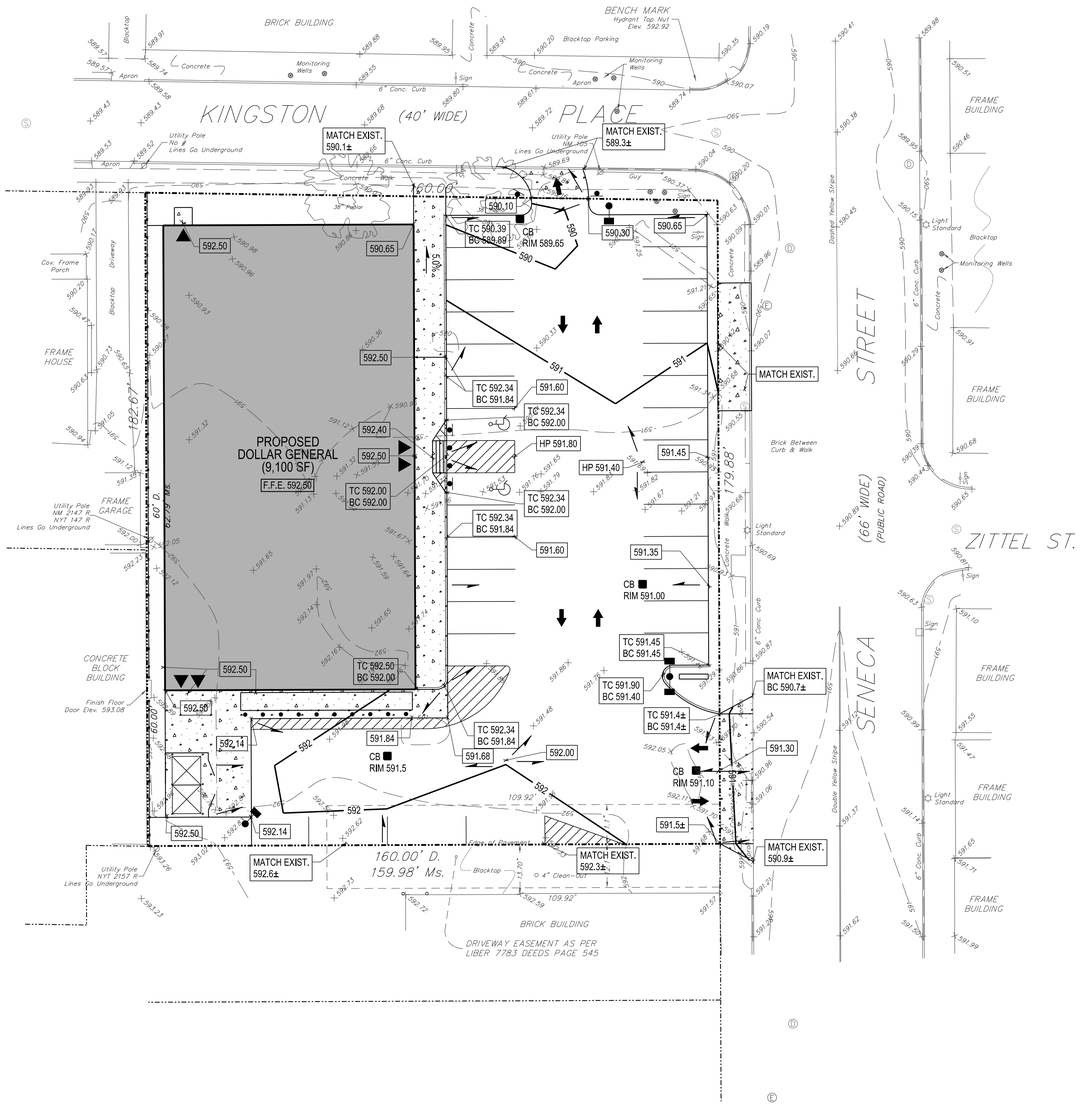

LEGEND

	PROPERTY LINE
630.00	PROPOSED POINT ELEVATION
630	EXISTING CONTOUR
630	PROPOSED CONTOUR
TC	TOP OF CURB
BC	BOTTOM OF CURB
HP	HIGH POINT
	FLOW DIRECTION

20' 20 0 20 40Ft.

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DOLLAR GENERAL
FOR
CREATIVE STRUCTURES SERVICES
SENECA STREET & KINGSTON PLACE
BUFFALO, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO:	K20.002.001
DATE:	6-3-11
SCALE:	AS SHOWN
DRAWN BY:	JMH
DESIGNED BY:	JMH
CHECKED BY:	LD

CIVIL

GRADING PLAN

C1.03

HIGH
DATE
SYTIME
TIME

CADD NO.

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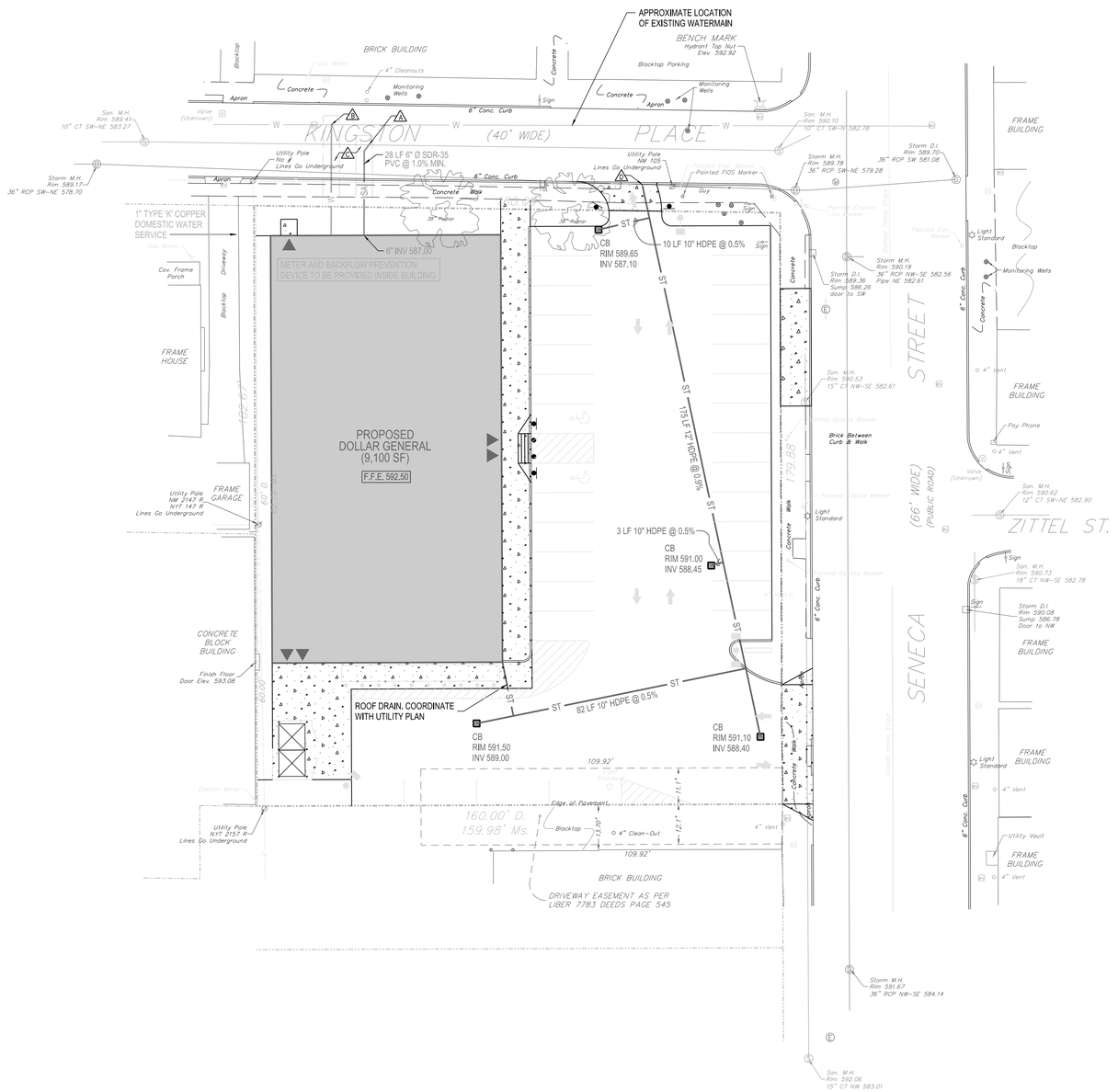

MATERIAL NOTES:

1. STORM SEWERS
   - A. CORRUGATED POLYETHYLENE PIPE
     1. SMOOTH INTERIOR PIPE.
     2. CONFORM TO AASHTO M294.
     3. ACCEPTABLE PRODUCTS: N-12 ADVANCED DRAINAGE SYSTEMS, INC., HI-Q BY HANCOR, OR ACCEPTED EQUAL.
2. SANITARY SEWERS
   - A. PIPE AND FITTINGS - SDR35 PVC CONFORMING TO ASTM D3034 W/ RUBBER GASKETED JOINTS MEETING ASTM D-3212 STANDARDS.
   - C. PIPE BEDDING - NYSDOT NO. 1 CRUSHED STONE OR NO. 1 WASHED GRAVEL.

STORMWATER DISCHARGE TABLE		
	10-YR	25-YR
EXISTING	3.55 CFS	4.01 CFS
PROPOSED	3.43 CFS	3.48 CFS

LEGEND

SANITARY SEWER	SA
STORM SEWER	ST
WATER MAIN	W
ELECTRIC	E
GAS SERVICE	G
TELEPHONE	T
HYDRANT	
MANHOLE	
CATCH BASIN	
YARD DRAIN	YD
CLEAN OUT	C.O.
LIGHT STANDARD	

NOTE LEGEND

1. WYE CONNECT TO EXISTING SEWER PER CITY STANDARDS. 6" INV @ 586.75. EXISTING 10" INV @ 583.1±. CONFIRM IN FIELD.
2. CONTRACTOR INSTALL CURB BOX & CONNECT NEW 1" TYPE "K" WATER SERVICE COORDINATE WITH CITY OF BUFFALO WATER DEPARTMENT.
3. SAWCUT AND REMOVE PAVEMENT AS REQUIRED TO INSTALL NEW LATERAL. PROVIDE MAINTENANCE AND PROTECTION OF TRAFFIC AS PER NYSDOT STANDARDS. BACKFILL WITH SELECT FILL AND REPLACE PAVEMENT IN KIND.
4. WYE CONNECT TO EXISTING SEWER PER CITY STANDARDS. 12" INV @ 586.85. EXISTING 36" INV @ 579.2±. CONFIRM IN FIELD.

20' 20 0 20 40F†.

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DOLLAR GENERAL FOR CREATIVE STRUCTURES SERVICES SENECA STREET & KINGSTON PLACE BUFFALO, NEW YORK

MARK	DATE	DESCRIPTION

REVISIONS

PROJECT NO:	K20.002.001
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SCALE:	AS SHOWN
DRAWN BY:	JMH
DESIGNED BY:	JMH
CHECKED BY:	LD

CIVIL

UTILITY PLAN

C1.04

USER *DATE* *TIME* *SYTIME*

CADD NO.

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APPENDIX A

BACKFILL DOCUMENTATION

CME Associates, Inc.

LABORATORY TEST REPORT

Client:	Buffalo Crushed Stone, Williamsville, NY	**Page**	1 of 2	**Date:**	02/08/11
Project:	Various Projects			**Report No.:**	16314S-01-0111

On January 28, 2011 our representative Mr. Ken Koleff, picked up a sample taken from a stockpile.

Sample Identification as follows:

Sample No.:	Location:
BL 2338	On-Site Stockpile – Buffalo Crushed Stone, Wehrle Pit

MECHANICAL ANALYSIS (ASTM C-136, C-117)

Sieve Size	Percent Passing by Weight Sample BL 2338
2"	100
1"	92
½"	58
¼"	40
No. 4	33
No. 10	20
No. 40	9
No. 200 (wash)	5

BURMISTER CLASSIFICATION & UNIFIED DESIGNATION

Classification: Grey 2" Minus Run-of-Crush Limestone

LABORATORY MOISTURE-DENSITY RELATIONSHIP ASTM D-1557

100% Maximum Dry Density	=	135.7	**pcf**
Optimum Moisture Content	=	7.7	**%**

The Laboratory Moisture Density Curve is attached.

Feel free to contact this office should you have any questions.

Respectfully Submitted,

CME ASSOCIATES, INC.

Ernest W. Kihl
Laboratory Supervisor

Reviewed By:

CME ASSOCIATES, INC.

Norman Jurek, EIT
Staff Engineer

GE 454M (10/97)

GRANULAR MATERIAL DOCUMENTATION FORM

ORIGINATOR
J.R. ZIEZIULA, REG. 5, GEOTECH. ENGR
NON-PROJECT SPECIFIC

SAMPLED BY DANIEL WILD DATE 9/17/10

SOURCE IDENTIFICATION & LOCATION 10392
SOURCE IDENTIFICATION STANDARD SLAG SERVICES, LLC
U.S.G.S. QUAD LOCATION N-5-U-19
TOWNSHIP BUFFALO
COUNTY ERIE

☑ **STOCKPILED MATERIAL** ITEM NO. 304.15M PILE NO. 10-02 EST. QTY. C.M. 4,682
TIER NO. ☐ I ☐ II ☑ III
CASE FOR SUBSEQUENT STOCKPILE ☐ CASE A ☐ CASE B ☑ CASE C

☐ **NON-STOCKPILED MATERIAL**

TEST RESULTS (OPTIONAL)

			NORTH	SOUTH	EAST	WEST
GRADATION						
REG. SAMPLE DESIGN			513E2216M 2A	513E2216M 2B	513E2216M 2C	513E2216M 2D
SIEVE SIZES	100.0 mm	% PASSING BY WEIGHT				
	75.0 mm					
	50.0 mm		100	100	100	100
	37.5 mm					
	25.0 mm					
	19.0 mm					
	12.5 mm					
	6.3 mm		42	49	40	42
	2.00 mm					
	0.850 mm					
	0.425 mm		15	13	12	15
	0.150 mm					
	0.075 mm		8	6	4	8
QUALITY		Mean				
Mg So4 Soundness % Loss by Wt		6	6	7	3	6
Plasticity Index		NP	NP	NP	NP	NP

ACCEPTED:

NON-STOCKPILED MATERIAL
FOR THE YEAR OF 1910 MATERIAL FROM THIS SOURCE MEETS THE QUALITY REQUIREMENTS FOR ITEMS:

_____ _____ _____ _____ _____ _____ _____

THIS EVALUATION IS SUBJECT TO THE FOLLOWING CONDITIONS:

STOCKPILED MATERIAL
SUBBASE ITEM 304.15M TYPE OPTIONAL
UNDERDRAIN FILTER ITEM _____ TYPE _____
OTHER ITEM(S) _____ _____ _____ _____ _____

NAME Joseph R. Ziezula TITLE Reg. Dist. Geotech. Engr. DATE 10-9-10

REJECTED:
MATERIAL MEETING THE SPECIFICATION REQUIREMENTS CANNOT BE OBTAINED FROM THIS
☐ SOURCE
☐ STOCKPILE
FOR ITEM(S) _____ _____ _____ _____ _____ _____

NAME _____ TITLE _____ DATE _____

APPENDIX B

ELECTRONIC COPY
(INCLUDES SMP EXCAVATION WORK PLAN)

APPENDIX C

EXCAVATION WORK PLAN
(INCLUDING COMMUNITY AIR MONITORING PLAN)

CONTENTS

TABLES TO BE PREPARED IN THE ADDENDUM FOR THE EXCAVATION WORK PLAN
(follow text)

Number

FIGURES FROM THE SITE MANAGEMENT PLAN
(follow tables)

Number

APPENDICES
(follow figures)

Appendix

APPENDIX C – EXCAVATION WORK PLAN (EWP)

This Excavation Work Plan (EWP) is generated to provide guidance for the CONSULTANT or CONTRACTOR who is assigned to perform intrusive work at the Site that will penetrate the cover system (surface cover and backfill material) in the northern corner of the Site or encounter or disturb the Remaining Contamination on site. As further discussed below, this EWP requires an Addendum from the CONSULTANT or CONTRACTOR be submitted to NYSDEC that includes project-specific details and supplements to this EWP as pertinent for the tasks to be completed.

This EWP is prepared in accordance with the guidelines provided in the New York State Department of Environmental Conservation (NYSDEC) Technical Guidance for Site Investigation and Remediation dated May 2010 (DER-10).

C-1 PURPOSE

At least 15 days prior to the start of any activity that is anticipated to encounter Remaining Contamination, the site owner or their representative will notify the Department. Currently, this notification will be made to:

Mr. Martin Doster, P.E.
Regional Hazardous Waste Remediation Engineer

NYSDEC – Region 9
270 Michigan Avenue
Buffalo, NY 14203
(716) 851-7220

This notification shall include an Addendum to this EWP that will include:

- A detailed description of the work to be performed, including the location and areal extent, plans for site re-grading, intrusive elements or utilities to be installed below the soil cover, estimated volumes of contaminated soil to be excavated, and any work that may impact an engineering control,
- A summary of environmental conditions anticipated in the work areas, including the nature and concentration levels of contaminants of concern (COCs), potential presence of grossly contaminated media, and plans for any pre-construction sampling;

- A schedule for the work, detailing the start and completion of all intrusive work,
- A summary of the applicable components of this EWP. The addendum will define the scope of work (i.e., shallow excavation above the water table with immediate disposal, deeper excavation requiring fluid management and/or stockpiling soil on site) and identify the applicable components of an EWP for this scope.
- A statement that the work will be performed in compliance with this EWP and 29 Code of Federal Regulations (CFR) 1910.120,
- A copy of the contractor's health and safety plan (HASP), in electronic format, (a HASP template is provided in Appendix D of this document to provide site-specific information that will aid the contractor in developing their own HASP),
- Identification of disposal facilities for potential waste streams,
- Identification of sources of any anticipated backfill, along with all required chemical testing results.

C-2 SOIL SCREENING METHODS

Previous site investigations have identified chlorinated volatile organic compounds (CVOCs) and polynuclear aromatic hydrocarbons (PAHS) in the soil at various soil samples across the site. Figures 13 and 14 in the Site Management Plan (SMP) illustrate the soil sample locations and their designation regarding whether they contain constituents above or below unrestricted soil cleanup objectives as of November 2010. Detailed listing of the specific CVOC and PAH constituents and their respective concentrations can be found in Tables 2 and 6 of the SMP. These figures only indicate the results of the soil samples collected and interpretation of impact is limited to only the boring locations. During the development of the Addendum, the CONSULTANT or CONTRACTOR will evaluate whether the proposed excavation area extends into known or potentially contaminated material (Remaining Contamination).

Visual, olfactory, and instrument-based soil screening (i.e. photoionization detector or PID) will be performed by a qualified environmental professional during all remedial and development excavations into these areas or if the on-site crew identify any signs of contamination during the excavation activities. Soil screening will be performed regardless of when the invasive work is done and will include all excavation and invasive work performed during development, such as excavations for foundations and utility work, after issuance of the COC.

In addition to the field screening, potentially contaminated on-site soil/fill (i.e. material that is visibly stained, odorous, or produces elevated PID readings), should be properly stockpiled and sampled at a frequency dictated by the quantity excavated, in accordance with Table 5.4(e)10 of DER-10. At least one sample will be collected from each excavation if the soil/fill does not exhibit visible or olfactory evidence of contamination. These samples shall be tested for CVOCs and PAHs referenced in Section C-2 (as necessary), and the reported concentrations shall be compared to applicable (restrictive commercial) SCGs for the site, as discussed in Section 1.3.1 of the SMP. The CONSULTANT or CONTRACTOR shall evaluate the potential for soil re-use or off-site disposal at a permitted facility based on the criteria presented in Table 5.4(e)4 of DER-10. If evaluation of the excavated soils concludes that the soil is not adequate for site re-use, additional testing may be required to further classify the material for hazardous characteristics for disposal purposes.

Real-time field instruments can be used for qualitative monitoring of the CVOC impact, but these instruments are not effective for the PAH contaminants reported in the subsurface. Accordingly, soil screening frequency shall be determined during the design phase (following the guidance provided in Table 5.4(e)10 of DER-10) and shall take into consideration excavation location and depth in relationship to previous investigation sampling and/or excavation extent.

Soils will be segregated based on previous environmental data and field screening results and/or anticipated analytical results. Common segregation units include material that requires off-site disposal, material that can be returned to the subsurface, and material that can be used as cover soil. Please note that screening results for a defined segregated pile will be representative of the entire volume and if the CONSULTANT or CONTRACTOR elects to further segregate a defined pile, additional testing and evaluation will be required for each redistributed pile.

C-3 STOCKPILE METHODS

The Addendum shall provide the anticipated extent of stockpiling (anticipated cubic yards piled in a defined location on site covering a specified square area) for the scope of work and the proposed erosion and sedimentation controls for stockpiles.

All stockpiles will be kept covered at all times with appropriately anchored tarps. Stockpiles will be routinely inspected and damaged tarp covers will be promptly replaced. Soil stockpiles will be continuously encircled with a berm and/or silt fence. Hay bales will be used as needed near catch basins, surface waters, and other discharge points.

Stockpiles will be inspected at a minimum once each week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by NYSDEC.

C-4 MATERIALS EXCAVATION AND LOAD OUT

The Addendum will provide details regarding the extent of excavation (i.e., cubic yards, location of excavation and depth) and load out as part of the scope of work and the proposed methods to be followed for materials loading and on-site management prior to leaving the site.

A qualified environmental professional or person under their supervision will oversee all invasive work and the excavation and load-out of all excavated material.

The current owner of the property and its contractors are solely responsible for safe execution of all invasive and other work performed under this Plan.

The presence of utilities and easements on the site will be investigated by the qualified environmental professional. It will be determined whether a risk or impediment to the planned work under this EWP is posed by utilities or easements on the site.

Loaded vehicles leaving the site will be appropriately lined, tarped, securely covered, manifested, and placarded in accordance with appropriate Federal, State, local, and New York State Department of Transportation (NYSDOT) requirements (and all other applicable transportation requirements).

Locations where vehicles enter or exit the site shall be inspected daily for evidence of off-site soil tracking.

The qualified environmental professional will be responsible for ensuring that all egress points for truck and equipment transport from the site are clean of dirt and other materials derived from the site during intrusive excavation activities. Cleaning of the adjacent streets will be performed as needed to maintain a clean condition with respect to site-derived materials.

C-5 MATERIALS TRANSPORT OFF-SITE

The Addendum shall propose the protocol to be followed for materials management while in transport off-site, including volume/weight limits per truck. The Addendum will also include truck transport routes and maps illustrating these routes.

All transport of materials will be performed by licensed haulers in accordance with appropriate local, State, and Federal regulations, including 6 New York Codes Rules and Regulations (NYCRR) Part 364. Haulers will be appropriately licensed and trucks properly placarded.

Material transported by trucks exiting the site will be secured with tight-fitting covers. Loose-fitting canvas-type truck covers will be prohibited. If loads contain wet material capable of producing free liquid, truck liners will be used.

All trucks loaded with site materials will exit the vicinity of the site using only these approved truck routes. This is the most appropriate route and takes into account: (a) limiting transport through residential areas and past sensitive sites; (b) use of city mapped truck routes; (c) prohibiting off-site queuing of trucks entering the facility; (d) limiting total distance to major highways; (e) promoting safety in access to highways; and (f) overall safety in transport; [(g) community input [where necessary]]

Trucks will be prohibited from stopping and idling in the neighborhood outside the project site.

Egress points for truck and equipment transport from the site will be kept clean of dirt and other materials during site remediation and development.

Queuing of trucks will be performed on-site in order to minimize off-site disturbance. Off-site queuing will be prohibited.

C-6 MATERIALS DISPOSAL OFF-SITE

The Addendum will propose the methods to be followed for materials disposal off-site, including the off-site disposal locations for excavated soil. All soil, fill, and solid waste excavated and removed from the site will be treated as contaminated and regulated material unless analytical results confirm otherwise. Any contaminated and regulated material will be transported and disposed in accordance with all local, State (including 6NYCRR Part 360) and Federal regulations. If disposal of soil/fill from this site is proposed for unregulated off-site disposal (i.e. clean soil removed for development purposes), a formal request will be made to the NYSDEC. Unregulated off-site management of materials from this site will not occur without NYSDEC approval.

Off-site disposal locations for excavated soils will include estimated quantities and a breakdown by class of disposal facility if appropriate, i.e. hazardous waste disposal facility, solid waste

landfill, petroleum treatment facility, C/D recycling facility, etc. Actual disposal quantities and associated documentation will be reported to the NYSDEC in the Periodic Review Report. This documentation will include: waste profiles, test results, facility acceptance letters, manifests, bills of lading, and facility receipts.

Non-hazardous historic fill and contaminated soils taken off-site will be handled, at minimum, as a Municipal Solid Waste per 6NYCRR Part 360-1.2. Material that does not meet Track 1 unrestricted soil cleanup objectives (SCOs) is prohibited from being taken to a New York State recycling facility (6NYCRR Part 360-16 Registration Facility).

C-7 MATERIALS REUSE ON-SITE

Any material originating from the site can be reused on site provided sampling demonstrates compliance with the restricted commercial use SCOs defined in 6 NYCRR Part 275-6.8(b). This criterion for on-site reuse is defined in Section 1.3.1 of the SMP with individual constituent levels listed in Table 5 of the SMP. Soil sampling will be conducted in accordance with Section C-2. The qualified environmental professional will ensure that procedures defined for materials reuse in this SMP are followed and that unacceptable material does not remain on-site. Contaminated on-site material, including historic fill and contaminated soil, that is acceptable for re-use on-site will be placed below the demarcation layer or impervious surface (i.e. paved surface or topsoil), and will not be reused within a cover soil layer, within landscaping berms, or as backfill for subsurface utility lines.

On site stockpiling or storage will follow the methods discussed in Section C-3. Planned sizes and locations of stockpiles on site will be provided in the Addendum.

Any demolition material proposed for reuse on-site will be sampled for asbestos and the results will be reported to the NYSDEC for acceptance. Concrete crushing or processing on-site will not be performed without prior NYSDEC approval. Organic matter (wood, roots, stumps, etc.) or other solid waste derived from clearing and grubbing of the site will not be reused on-site.

C-8 FLUIDS MANAGEMENT

Shallow groundwater on Site has historically been encountered at depths greater than 6 feet below ground surface. If excavation is anticipated to extend below six feet, preparations should be made to address fluid management.

All liquids to be removed from the site, including excavation dewatering and groundwater monitoring well purge and development waters, will be handled, transported and disposed in accordance with applicable local, State, and Federal regulations. Dewatering, purge and development fluids will not be recharged back to the land surface or subsurface of the site, but will be managed off-site unless otherwise approved by NYSDEC.

Discharge of water generated during large-scale construction activities to surface waters (i.e. a local pond, stream or river) will be performed under a State Pollution Discharge Elimination System (SPDES) permit.

C-9 COVER SYSTEM RESTORATION

After the completion of soil removal and any other invasive activities the cover system will be restored in a manner that complies with the SMP, which serves as the controlling document for the ICs and ECs required in the Declaration of Covenants and Restrictions dated July 20, 2005 (hereinafter referred to as "the Declaration"). If a "Remaining Contamination Zone" is encountered, a demarcation layer, consisting of orange snow fencing material or equivalent material will be placed in the excavation during backfilling activities to provide a visual reference to the top of the 'Remaining Contamination Zone,' the zone that requires adherence to special conditions for disturbance of remaining contaminated soils defined in this SMP. If the type of cover system changes from that which exists prior to the excavation (i.e., a soil cover is replaced by asphalt), this will constitute a modification of the cover element of the remedy and the upper surface of the 'Remaining Contamination. A figure showing the modified surface will be included in the subsequent Periodic Review Report and in any updates to the SMP.

C-10 BACKFILL FROM OFF-SITE SOURCES

All materials proposed for import onto the site will be approved by the qualified environmental professional and will be in compliance with provisions in this SMP prior to receipt at the site.

All proposed materials shall be in compliance with the requirements set forth in Section 5.4(e) of the DER-10, including:

- Comply with appropriate site-specific SCGs (currently commercial use 6 NYCRR Part 375 SCOs for the Site);
- Be free of extraneous debris or solid waste;

- Be recognizable soil or other unregulated material as set forth in 6 NYCRR Part 360 and materials for which NYSDEC has issued a beneficial use determination (BUD);

- Not exceed the allowable constituent levels for imported fill or soil listed in Table 5.4(e)4 of DER-10, which is either unrestricted use or commercial use if a site-specific exemption is provided by NYSDEC under 6 NYCRR Part 360; and

Confirmation that the source material complies with appropriate SCGs and constituent levels through sampling of the appropriate sample types prescribed in Table 5.4(e)10 and quantities outlined in Section 5.4(e)3ii of DER-10.

Material from industrial sites, spill sites, or other environmental remediation sites or potentially contaminated sites will not be imported to the site.

All imported soils will meet the backfill and cover soil quality standards established in 6NYCRR 375-6.7(d). Based on an evaluation of the land use, protection of groundwater and protection of ecological resources criteria, the resulting soil quality standards are for unrestricted use, unless otherwise approved by NYSDEC if in compliance with the site specific SCGs. Individual constituent concentrations for unrestricted use are listed in Table 5 of the SMP. The commercial use SCGs are set forth in Part 375 -6.8(b). Soils that meet 'exempt' fill requirements under 6 NYCRR Part 360, but do not meet backfill or cover soil objectives for this site, will not be imported onto the site without prior approval by NYSDEC. Solid waste will not be imported onto the site.

Trucks entering the site with imported soils will be securely covered with tight fitting covers. Imported soils will be stockpiled separately from excavated materials and covered to prevent dust releases.

C-11 STORMWATER POLLUTION PREVENTION

Because the Site is 0.5 acres in size, any excavation and/or construction on Site is not likely to be sufficient to require a Stormwater Pollution Prevention Plan (SWPPP). Regardless, appropriate measures shall be taken to minimize the potential for stormwater to impact pollution on Site.

Silt fencing or hay bales will be installed around the entire perimeter of the construction area. Barrier and hay bale checks will be installed and inspected once a week and after every storm event. Results of inspections will be recorded in a logbook and maintained at the site and available for inspection by NYSDEC. All necessary repairs shall be made immediately.

Accumulated sediments will be removed as required to keep the barrier and hay bale check functional.

All undercutting or erosion of the silt fence toe anchor shall be repaired immediately with appropriate backfill materials.

Manufacturer's recommendations will be followed for replacing silt fencing damaged due to weathering.

Erosion and sediment control measures identified in the SMP shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters

C-12 CONTINGENCY PLAN

Upon the discovery of an unknown source of contamination that may require remediation (i.e. underground storage tanks [USTs], stained soil, drums, etc.), all field activities shall be halted and appropriate notifications shall be made to ensure that emergency response and cleanup is conducted as necessary, including pumping fluids from discovered tanks, containers, or the excavation/pit and properly containing the fluids. Identification of unknown or unexpected contaminated media (confirmed by screening) during invasive site work will be promptly communicated by phone to NYSDEC's Project Manager. If applicable, reportable quantities of petroleum product will also be reported to the NYSDEC spills hotline. The CONSULTANT will develop a remedial investigation work plan to investigate the nature and extent of the discovered source of contamination for NYSDEC review and approval. Sampling will be performed on product, sediment, and surrounding soils, etc. as necessary to determine the nature of the material and proper disposal method. Chemical analysis will be performed for full a full list of analytes (target analyte list [TAL] metals; target compound list (TCL) volatile organic compounds (VOCs) and semivolatile organic compounds (SVOCs), TCL pesticides and polychlorinated biphenyls [PCBs]), unless the site history and previous sampling results provide a sufficient justification to limit the list of analytes. In this case, a reduced list of analytes will be proposed to the NYSDEC for approval prior to sampling.

These findings will be also included in the periodic reports prepared pursuant to Section 5 of the SMP.

C-13 COMMUNITY AIR MONITORING PLAN

Real-time air monitoring for volatile organic vapors (i.e., VOCs) and particulates (i.e., dust) will be conducted at the perimeter of the Exclusion Zone during the excavation or drilling/geoprobe programs if such programs are reasonably expected to create a risk of potential residential exposure to the contaminants of concern. Based on the expected prevailing wind direction from the southwest, one upgradient location from the southwest and two downgradient locations from the northeast shall be selected as air sampling stations. These locations will be adjusted on a daily or more frequent basis based on actual wind directions to maintain this configuration. In addition to these locations, a fourth monitoring station will be located in the western edge of the Site, immediately adjacent to the residential neighbor. This monitoring will be conducted as follows:

- Volatile organic vapors and dust particulates (less than 10 mm in size [PM-101]) will be continuously monitored using instruments capable of displaying 15-minute averages, at the downwind perimeter of the exclusion zone. If total volatile organic vapor levels exceed 5 ppm above background, work activities will be halted, until levels drop below 5 ppm, monitoring would be continued under the provisions of a Vapor Emission Response Plan (Section C-13.1). All readings will be recorded and be available for NYSDEC and NYSDOH personnel to review if requested.

- If the downwind PM-10 particulate level is 100 micrograms per cubic meter (mcg/m^3) greater than background (upwind perimeter) for the 15-minute period or if airborne dust is observed leaving the work area, then dust suppression techniques must be employed. Work may continue with dust suppression techniques provided that downwind PM-10 particulate levels do not exceed 150 mcg/m^3 above the upwind level and provided that no visible dust is migrating from the work area. If, after implementation of dust suppression techniques, downwind PM-10 particulate levels are greater than 150 mcg/m^3 above the upwind level, work must be stopped and a re-evaluation of activities initiated. Work can resume provided that dust suppression measures and other controls are successful in reducing the downwind PM-10 particulate concentration to within 150 mcg/m^3 of the upwind level and in preventing visible dust migration.

C-13.1 Vapor Emission Response Plan

If the total volatile organic vapor concentrations monitored by a PID at the downwind perimeter of the work area persist between 5 ppm and 25 ppm above background, activities will be halted and monitoring continued. If the total volatile organic vapor level decreases below 5 ppm above background, work activities can resume. If the total volatile organic vapor levels are greater than 5 ppm over background but less than 25 ppm over background at the perimeter of the Exclusion

Zone, activities must be halted, the source of vapors identified, corrective actions taken to abate emissions, and monitoring continued. After these steps, work activities can resume provided the organic vapor level 200 feet downwind of the Exclusion Zone or half the distance to the nearest residential structure to the west, whichever is less, is below 5 ppm over background for the 15-minute average.

If the total volatile organic vapor level is above 25 ppm at the perimeter of the Exclusion Zone, activities must be shut down. When work shutdown occurs, downwind air monitoring as directed by the Site HSO will be implemented to ensure that vapor emission does not impact the nearest residential or commercial structure at levels exceeding those specified in the Major Vapor Emission Response Plan (Section C-13.2). Exceedances of these action levels will be reported to NYSDEC and New York State Department of Health (NYSDOH) Project Managers.

C-13.2 Major Vapor Emission Response Plan

If any total volatile organic vapor levels greater than 5 ppm over background are identified 200 feet downwind from the Exclusion Zone or half the distance to the nearest residential or commercial property, whichever is less, all work activities will be halted.

If, following the cessation of work activities, or as the result of an emergency, total volatile organic vapor levels persist above 5 ppm above background 200 feet downwind from the Exclusion Zone or half the distance to the nearest residential or commercial property, then the air quality will be monitored within 20 feet of the perimeter of the nearest residential or commercial structure (20-foot zone).

If efforts to abate the emission source are unsuccessful and total volatile organic vapor levels approaching 5 ppm persist for more than 30 minutes in the 20-foot zone, then the Major Vapor Emission Response Plan shall automatically be placed into effect. Also, the Major Vapor Emission Response Plan shall be immediately placed into effect if 20-foot zone total volatile organic vapor levels are greater than 10 ppm above background. Exceedances of these action levels will be reported to NYSDEC and New York State Department of Health (NYSDOH) Project Managers.

Upon activation of the Major Vapor Emission Response Plan, the following activities will be undertaken:

- All Emergency Response authorities, the Erie County Department of Health or NYSDOH, and NYSDEC will immediately be contacted by the Site HSO and advised of the situation.
- Air monitoring will be conducted at 15 minute intervals within the 20-foot zone. If two successive readings below action levels are measured, air monitoring may be halted or modified by the Site HSO.

C-14 ODOR CONTROL PLAN

Based on the current understanding of the site conditions, it is not anticipated that a large scale odor nuisance will be encountered. Regardless, this odor control plan includes appropriate measures of controlling emissions of nuisance odors off-site. Specific odor control methods to be used on a routine basis will include limiting the size of excavations and stockpiles and covering them when not active. If nuisance odors are identified at the site boundary, or if odor complaints are received, work will be halted and the source of odors will be identified and corrected. Work will not resume until all nuisance odors have been abated. NYSDEC and NYSDOH will be notified of all odor events and of any other complaints about the project. Implementation of all odor controls, including the halt of work, is the responsibility of the property owner's Remediation Engineer, and any measures that are implemented will be discussed in the Periodic Review Report.

Various control measures will be employed as warranted to prevent on- and off-site nuisances. These measures may include: (a) limiting the area of open excavations and size of soil stockpiles; (b) shrouding open excavations with tarps and other covers; and (c) using foams to cover exposed odorous soils. If odors develop and cannot be otherwise controlled, additional means to eliminate odor nuisances may be implemented, including: (d) direct load-out of soils to trucks for off-site disposal; (e) use of chemical odorants in spray or misting systems; and, (f) use of staff to monitor odors in surrounding neighborhoods.

If nuisance odors develop during intrusive work that cannot be corrected, or where the control of nuisance odors cannot otherwise be achieved due to on-site conditions or close proximity to sensitive receptors, odor control will be achieved by sheltering the excavation and handling areas in a temporary containment structure equipped with appropriate air venting/filtering systems.

C-15 DUST CONTROL PLAN

The Addendum shall include a dust suppression plan that addresses the anticipated dust management during invasive on-site work, taking into account the scope of work, anticipated area to be affected, and the seasonal conditions. If the extent of anticipated excavation requires it, the dust control plan will include the items listed below:

- Dust suppression will be achieved though the use of dedicated on-site water truck for road wetting. The truck will be equipped with a water cannon capable of spraying water directly onto off-road areas including excavations and stockpiles.
- Gravel will be used on roadways to provide a clean and dust-free road surface.
- On-site roads will be limited in total area to minimize the area required for water truck sprinkling.

C-16 OTHER NUISANCES

Based on the location of the Site, the nature and extent of the impacted soil reported to-date, and surrounding neighborhood, potential nuisances that may develop during excavation or construction activities include noise control. Accordingly, the Addendum will include a noise control plan that will require all activities associated with excessive noise to be conducted during acceptable times of the day and that on-site field instruments will monitor the decibel levels on site and at the property boundaries. These measures will be developed and utilized by the contractor for all remedial work to ensure compliance with local noise control ordinances.

If the excavation/construction activities involve demolition of structures or tree removal, then a plan for rodent control will be developed as part of the Addendum and utilized by the contractor prior to and during site clearing and site grubbing, and during all remedial work.

A plan will be developed and utilized by the contractor for all remedial work to ensure compliance with local noise control ordinances.