ARAMARK Uniform Services (Syracuse) LLC
Former Christopher Service Company Site
3009 and 3117 Milton Avenue
Village of Solvay, New York

Voluntary Cleanup Project
VCP Site #V00665-7

Engineering Certification Report
Sub-Slab Depressurization System Installation

July 2011

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Engineering Certification Report
Sub-Slab Depressurization System Installation

July 2011

Prepared for:

The Wetlands Company
1040 East 86th Street
Suite 46C
Indianapolis, Indiana 46240

Aramark Uniform Services
(Syracuse) LLC
115 North First Street
Burbank, California 91502

and:

Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7016

Prepared by:

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290 Elwood Davis Road
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Syracuse, New York 13220

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1.0 Introduction

ARAMARK Uniform Services (Syracuse) LLC ("ARAMARK") installed a sub-slab depressurization system (SSDS) at its 3009 and 3117 Milton Avenue facility located in the Village of Solvay, Onondaga County, New York (see Figure 1). The SSDS was installed in accordance with the New York State Department of Environmental Conservation (NYSDEC) approved November 2009 Remedial Action Work Plan. The project was conducted as part of the Voluntary Cleanup Program (VCP), registry #V00665-7, under the oversight of The Wetlands Company, Barton & Loguidice, Inc. (B&L), NYSDEC, and the New York State Department of Health (NYSDOH). This document summarizes the installation of the engineering controls, including the SSDS and associated sub-slab vapor and groundwater monitoring locations, that will be operated in accordance with the NYSDEC approved January 2011 Site Management Plan.

2.0 Background

The results of the VCP investigation indicated the presence of chlorinated solvents, trichloroethene (TCE), and tetrachloroethene (PCE), above concentrations identified in theNYSDOH's Final Guidance for Evaluating Soil Vapor in the State of New York that warranted mitigation efforts. The elevated chlorinated solvent concentrations were limited to the western portion of the building near the former dry cleaning area. Construction Documents were developed and approved by the NYSDEC prior to bidding the project. The SSDS was designed in accordance with the United States Environmental Protection Agency's Radon Prevention in the Design and Construction of Schools and Other Large Buildings.

A depressurization diagnostic test was conducted as part of the final design on August 19, 2010. A core drill was utilized to insert a 2" diameter hole near the impacted area and suction was applied to determine a representative radius of influence. Additional holes were inserted around the suction hole and a micromanometer was utilized to quantify sub-slab air flow. Based on this information it was determined that there was a 15-foot radius of influence within the impacted area at a vacuum rate of 180 cfm.

3.0 SSDS Construction

Trec Environmental, Inc. of Spencerport, New York installed the SSDS in November, 2010. The construction notes and layout are depicted on Figure 2. Prior to construction, the slab above the area of impact was inspected for cracks and penetrations. Minimal penetrations were noted. Elastomeric joint sealant was utilized to seal the limited locations.

The suction pit was installed east of the active washing conveyor and the exhaust piping extended vertically directly above the suction pit to penetrate the ceiling deck. The roof-top riser extends above vents and windows and is greater than 25-feet from any building air intakes. An in-line Fantech HP Series active fan was installed for the building depressurization. All piping and system components were labeled as depicted on Figure 2. An audible and visual warning device was installed on the riser pipe above the suction pit. Additional construction document notes and details are provided in Appendix A. General construction photographs are provided in Appendix B.

4.0 Groundwater Monitoring Well Installation

Two (2) groundwater monitoring wells, MW-A and MW-B, were installed as depicted on the ALTA/ACSM Land Title Survey provided as Appendix C. Both locations were constructed with 2-inch diameter PVC casing with continuous wrap 0.010-inch PVC screen set across the groundwater table. MW-A was screened from 5' to 12' below grade and MW-B was screened from 5' to 11'8" below grade. The well construction logs are provided in Appendix D. The monitoring wells were completed with locking flush-mount covers.

5.0 Sub-Slab Vapor Probe Installation

Two (2) vapor points, VP-A and VP-B, were installed within the western portion of the building as depicted on the ALTA/ACSM Land Title Survey provided as Appendix C. Approximately 6" of sub-base material was removed and a dedicated vapor point screen was placed into the sub-base. The annulus space was filled with glass beads and a 3" bentonite seal was placed below the bottom of the sub-slab. Portland cement was used to seal above the Bentonite within 2" of the top of the sub-slab creating an air tight seal from the vapor point screen. The vapor points were completed with locking flush-mount covers. The vapor monitoring construction logs are provided in Appendix D.

6.0 Spoils Disposal

Spoils were generated as part of the suction pit excavation, monitoring well and soil vapor point installations. The spoils were placed in four (4) 55-gallon drums. The drums were transported by New York Environmental Technologies, Inc. to Cycle Chem, Inc. on February 22, 2011. The Non-Hazardous Waste Manifest documentation is provided in Appendix E.

7.0 Institutional Controls

The January 2011 Site Management Plan was reviewed and approved by the NYSDEC and was incorporated into the Environmental Easement that was recorded with the Onondaga County Clerk on July 12, 2011. The January 2011 Site Management Plan should be referenced for the detailed operation, maintenance and monitoring requirements associated with the SSDS.

Figure 1

Site Location Map

Project No. 909.001.003

Figure 1- Project Location Map
ARAMARK Uniform Services (Syracuse) LLC
Voluntary Cleanup Project

Village of Solvay Onondaga Co., NY

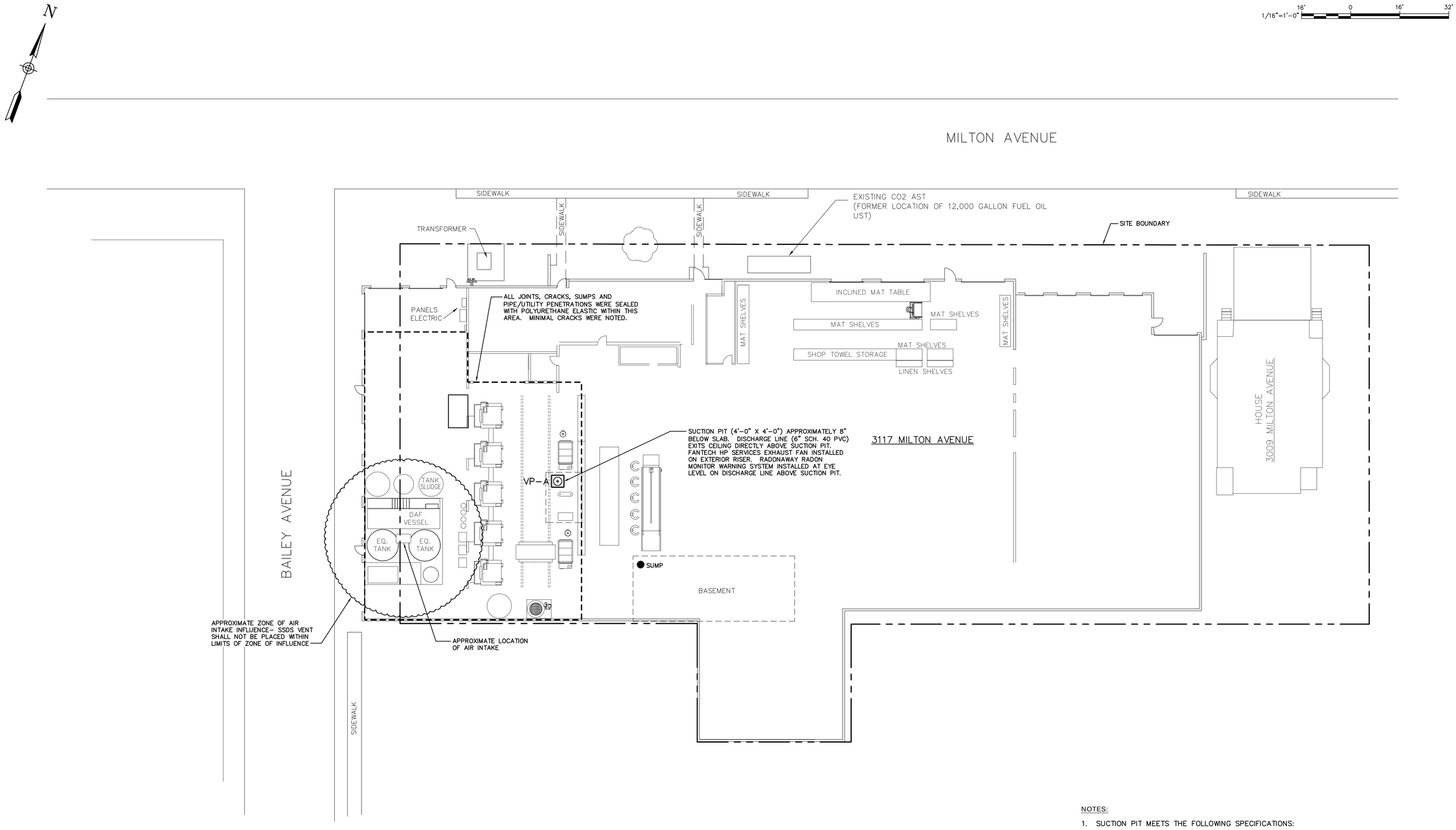
N

Barton & Loguidice, P.C.
Engineers • Environmental Scientists • Planners • Landscape Architects

Base Map: USGS 7.5' Topographic Quadrangle Syracuse West, N.Y. (1978)

Figure 2

Sub-Slab Depressurization System Field Construction Layout Plan



1/16"=1'-0" 16' 0 16' 32'

NOTES:

1. SUCTION PIT MEETS THE FOLLOWING SPECIFICATIONS:
   - REINFORCED DIAMOND PLATE STEEL COVERS WITH H-20 TRUCKLOAD RATING.
   - 1/8" BUNA-N GASKET AND STAINLESS STEEL SET BOLTS.
   - 14 GAUGE SKIRTS.
   - RECESSED WATER-TIGHT PICKING EYE(S) FOR COVER REMOVAL.
   - WELDED STEEL CONSTRUCTION.
   - STEEL COATED WITH RUST PREVENTATIVE PAINT.
2. LABELING:
   - EXHAUST FAN: "VAPOR REDUCTION DEVICE. DO NOT REMOVE".
   - PIPING: "SSD SYSTEM - MAY CONTAIN VAPORS".
   - FAN PENETRATION: "SOIL GAS VENT STACK MAY CONTAIN HIGH LEVELS OF VAPORS: DO NOT PLACE AIR INTAKE WITHIN 25 FT".
   - ROOF PENETRATION: "GAS VENT STACK MAY CONTAIN HIGH LEVELS OF VAPORS: DO NOT PLACE AIR INTAKE WITHIN 25 FT".
3. REFER TO NOVEMBER 30, 2010 ALTA/ACSM LAND TITLE SURVEY FOR GROUNDWATER MONITORING WELL AND SOIL VAPOR MONITORING LOCATIONS.

COMPLETED CONSTRUCTION

Significant Construction Changes Are Shown

By _____ Date _____

Ck'd _____ Date _____

REVISIONS

ARAMARK UNIFORM SERVICES

SUB-SLAB DEPRESSURIZATION SYSTEM FIELD CONSTRUCTION LAYOUT PLAN

VILLAGE OF SOLVAY ONONDAGA COUNTY, NEW YORK

Barton & Loguidice, P.C.

Date
NOVEMBER, 2010

Scale
1/16" = 1'-0"

Sheet Number
2

File Number
909.001.003

Checked by _____ Drawn by JGS Designed by LRH In charge of SDN

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Appendix A

Construction Document Notes and Details

EXHAUST FAN:

1. EXHAUST FAN SHALL BE SUITABLE FOR CONTINUOUS OPERATION AND SHALL OPERATE AT AT THE EQUIVALENT OF 500 CFM AT 0" OF STATIC PRESSURE. FAN SHALL BE MANUFACTURED SPECIFICALLY FOR OUTDOOR USE. FAN SHALL BE FANTECH MODEL FR 250 OR APPROVED EQUAL, AND SHALL PROVIDE GREATER THAN 300 cfm AT A STATIC HEAD OF 1".
2. PROVIDE A WATERPROOF LABEL TO READ AS FOLLOWS: "VAPOR REDUCTION DEVICE. DO NOT REMOVE."

SEALING POTENTIAL RADON ENTRY ROUTES:

1. ALL JOINTS, CRACKS, SUMPS, AND PIPE/UTILITY PENETRATIONS SHALL BE PROPERLY SEALED TO PREVENT INTRUSION OF ADDITIONAL SOIL VAPORS AND INTERNAL PRESSURE VARIANCES.
2. SEALANT SHALL BE POLYURETHANE, AIRTIGHT, AND ELASTIC FORMING GOOD ADHERENCE TO CONCRETE. SILICONE CAULKS SHALL NOT BE PERMITTED.
3. SURFACE TO SEAL SHALL BE CLEAN, DRY, AND FREE OF GRIT. THE SURFACE TEMPERATURE SHALL BE ABOVE FREEZING.
4. APPLY SEALANTS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
5. TYPICAL DIMENSIONS FOR CAULK BEADS ARE 1/2 IN. DEEP BY 1/4 IN. TO 1/2 IN. WIDE.
6. IT MAY BE NECESSARY TO USE BACKER ROD WHEN APPLYING SEALANT IN WIDE GAPS.
7. ALL SUMPS SHALL BE SEALED WITH A GASKETED LID. FOR SEALING OF SUMPS, UTILIZE A SILICONE RATHER THAN POLYURETHANE CAULK FOR SEALING SUMP LIDS AND ACCESS PORTS TO ENSURE A TIGHT FITTING GASKET THAT CAN BE REMOVED AT A FUTURE DATE. THIS IS ONLY SATISFACTORY IF THE SUMP COVER IS BOLTED DOWN AND THE SEAL IS AIRTIGHT. ADDITIONALLY, A POLYETHYLENE SHEETING SHALL BE INSTALLED AS A VAPOR RETARDER. ALTERNATELY (FOR CIRCULAR SUMPS) A PLASTIC MEMBRANE MAY BE UTILIZED. ALL CRACKS WITHIN SUMPS SHALL BE SEALED.

PIPING:

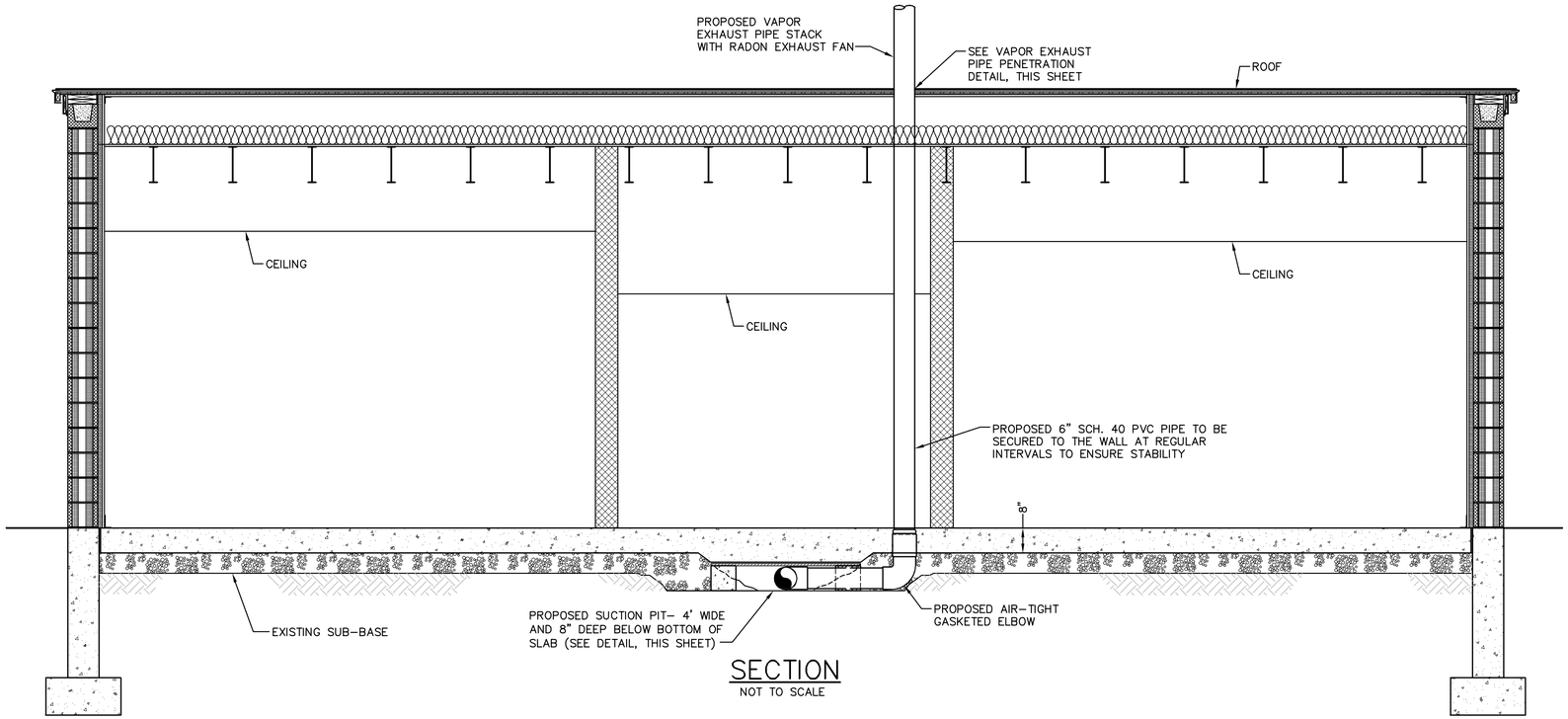
1. ALL SUBSURFACE PIPING SHALL BE LABELED "SSD SYSTEM". ALL EXPOSED PIPING AND SYSTEM COMPONENTS SHALL BE LABELED "SSD SYSTEM – MAY CONTAIN VAPORS". THE FAN PENETRATION SHALL BE LABELED "SOIL GAS VENT STACK MAY CONTAIN HIGH LEVELS OF VAPOR: DO NOT PLACE AIR INTAKE WITHIN 25 FT". LABELS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN EVERY 10 FEET.
2. PIPE LABELS SHALL BE PLACED AT LEAST EVERY 10 FEET ALONG THE ENTIRE PIPE RUN.
3. AT THE ROOF EXIT, AFFIX A PERMANENT LABEL TO THE VENT WITH A WARNING THAT READS "GAS VENT STACK MAY CONTAIN HIGH LEVELS OF VAPORS; DO NOT PLACE AIR INTAKE WITHIN 25 FEET."
4. THE SSDS EXHAUST FAN SHALL NOT BE PLACED WITHIN 25 FEET OF ANY OUTDOOR AIR INTAKES. THE SSDS SHALL EXHAUST AT A HIGHER ELEVATION THAN ALL VENTS, DOORS, AND WINDOWS.
5. PIPING TO BE ADEQUATELY SECURED TO WALL SO AS NOT TO SHIFT AFTER INSTALLATION.
6. THE BUILDING INCLUDES LAUNDRY RELATED EQUIPMENT AND TRENCHES, AND A SANITARY SEWER LINE EXTENDS THROUGH THE BUILDING PERPENDICULAR TO THE PROPOSED VAPOR SUCTION PIT DISCHARGE LINE. ITS EXACT LOCATION AND DEPTH WILL REQUIRE ONSITE VERIFICATION AGAINST EXISTING COMPLETED CONSTRUCTION DRAWINGS AND INSTALLATION OF THE VAPOR SUCTION PIT DISCHARGE LINE WILL NEED TO PROCEED WITH CAUTION IN THIS LOCATION.

WARNING SYSTEM:

1. THE SYSTEM SHALL INCLUDE A VISIBLE WARNING DEVICE TO INDICATE LOSS OF NEGATIVE PRESSURE. THIS DEVICE MAY BE AN ELECTRONIC PRESSURE SENSING DEVICE THAT ACTIVATES A WARNING LIGHT OR AN AUDIBLE ALARM WHEN A SYSTEM PRESSURE DROP OCCURS (NOT SOLELY WHEN THE FAN HAS CEASED PROPER OPERATION). INSTALL WARNING DEVICE IN AN AREA FREQUENTLY VISITED BY RESPONSIBLE STAFF. WARNING SYSTEM SHALL BE INSTALLED WITHIN THE BUILDING INTERIOR ON THE RISER PIPE, AND SHALL BE AT A HEIGHT SUCH THAT IT IS EASILY OBSERVABLE AND ACCESSIBLE FROM FLOOR LEVEL.

SITE RESTORATION:

1. THE SITE SHALL BE RESTORED IN A MANNER CONSISTENT WITH EXISTING BUILDING USE AND AESTHETICS.



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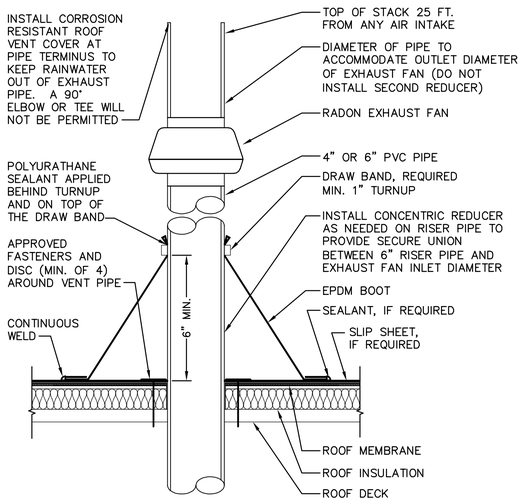

VAPOR EXHAUST PIPE PENETRATION DETAIL
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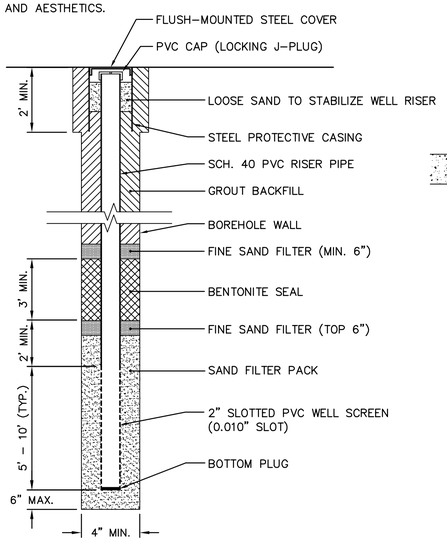

TYPICAL MONITORING WELL DETAIL
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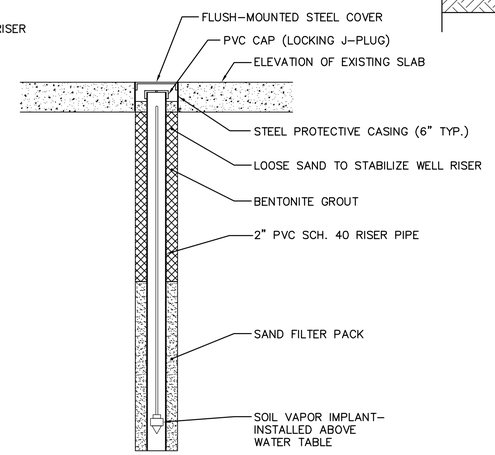
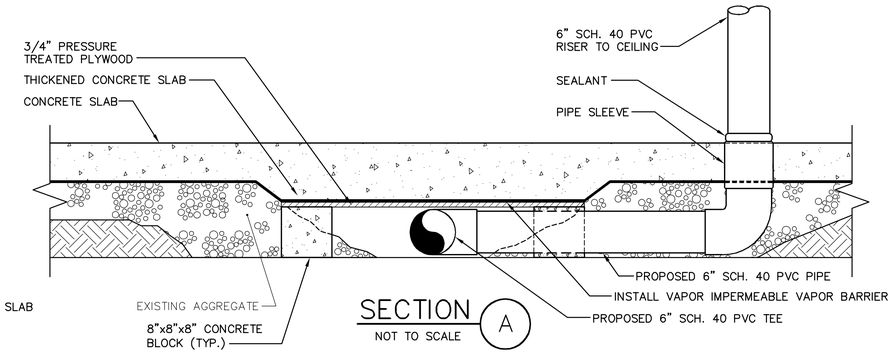


PERMANENT SOIL VAPOR PROBE IMPLANT DETAIL
NOT TO SCALE



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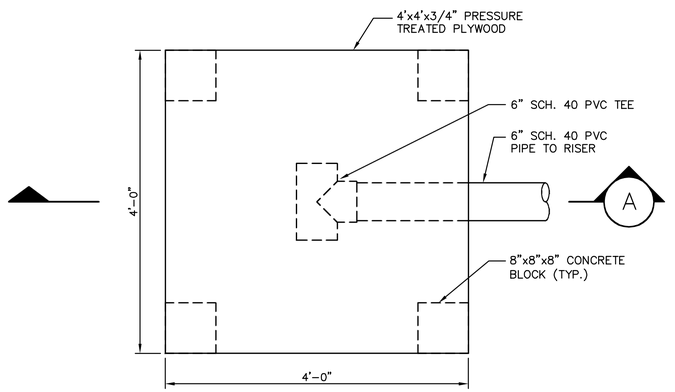

TYPICAL RADON SUCTION PIT DETAIL
NOT TO SCALE

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

COMPLETED CONSTRUCTION

Significant Construction Changes Are Shown

By _____ Date _____

Ck'd _____ Date _____

REVISIONS

ARAMARK UNIFORM SERVICES

ONONDAGA COUNTY, NEW YORK

NOTES AND DETAILS

VILLAGE OF SOLVAY

Barton Loguidice, P.C.

Date
AUGUST, 2010

Scale
AS SHOWN

Sheet Number
2

File Number
909.001

Designed by NRM In charge of SDN
Drawn by JCS
Checked by
Plotted: Sep 22, 2010 – 5:06PM By: jga
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Appendix B

Construction Photographs

PROJECT PHOTOGRAPHS

Photograph Number: 1
Photograph Description: Saw Cut Concrete Pad for vapor suction pit.

Photograph Number: 2
Photograph Description: Newly Installed vapor sump and concrete

PROJECT PHOTOGRAPHS

Photograph Number: 3
Photograph Description: Depressurization system riser

Photograph Number: 4
Photograph Description: Depressurization system riser and audible and visual alarm system.

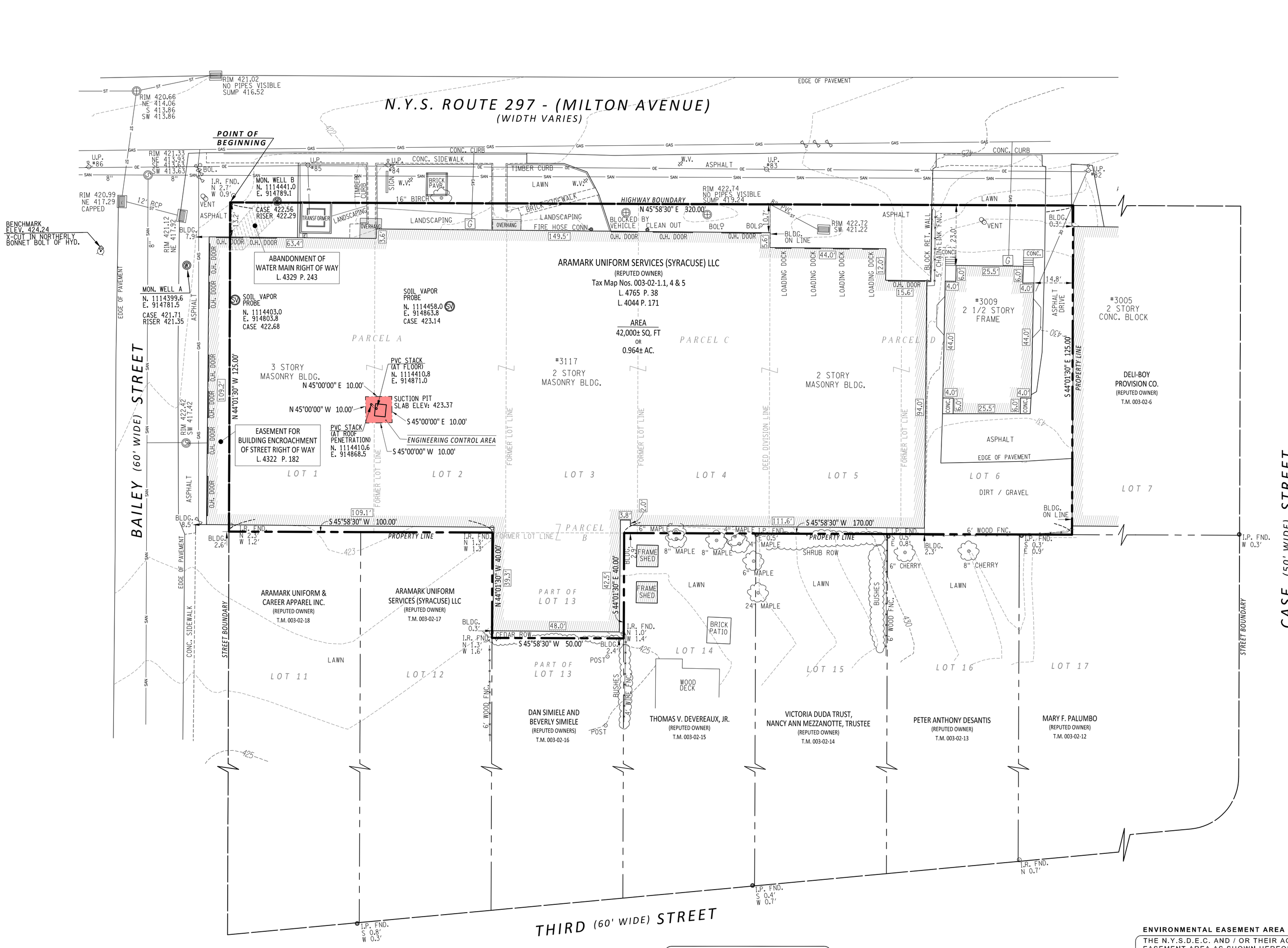
PROJECT PHOTOGRAPHS

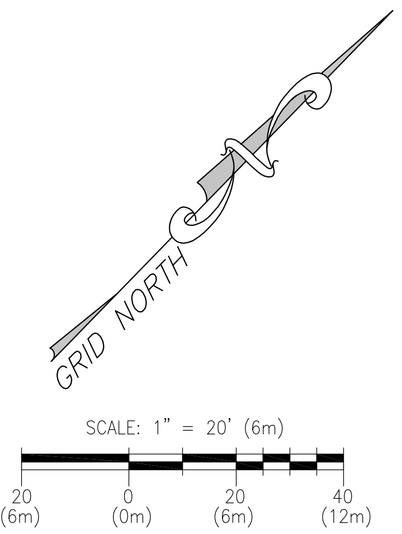
Photograph Number: 5
Photograph Description: Depressurization system riser as it penetrates ceiling deck.

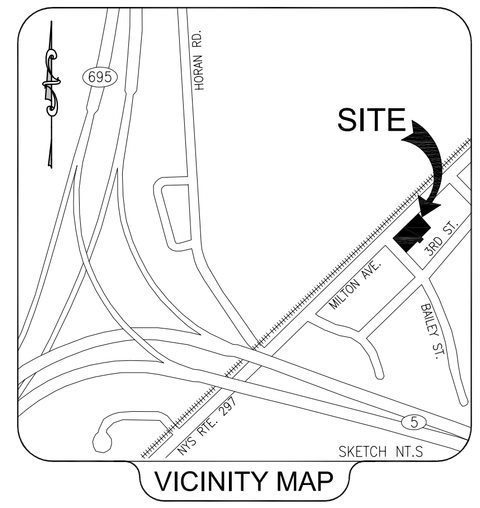
Photograph Number: 6
Photograph Description:
Roof mounted exhause riser and fan

Appendix C

ALTA/ACSM Land Title Survey







RECORD DESCRIPTION

PARCEL A:

ALL THAT TRACT OR PARCEL OF LAND, situate in the Town of Geddes, Village of Solvay, County of Onondaga and State of New York and further being Lots No. One (1) and Two (2) of Block No. Four (4) of the lands of Myron C. Darrow Estate on Farm Lots 136 and 144 Geddes and Lot 24 Camillus, according to a map thereof made by F.J. Schnauber, C.E. and dated April 12, 1926 and filed in the Onondaga County Clerk's Office of Onondaga County September 19, 1926.

PARCEL B:

ALL THAT TRACT OR PARCEL OF LAND, situate in the Town of Geddes, County of Onondaga and State of New York, being a part of Farm Lot #136 in said Town and further being Lot #3 of Block #4 of the lands of Myron C. Darrow Estate on Farm Lots #136 and 144 Geddes and Lot #24 Camillus, according to a map thereof made by F.J. Schnauber, C.E., dated April 12, 1926 and filed in the Clerk's Office of Onondaga County September 29, 1926.

ALSO, ALL THAT TRACT OR PARCEL OF LAND, situate in the Town of Geddes, County of Onondaga and State of New York, and further being a part of Lot #13 in Block #4 of the lands of Myron C. Darrow Estate on Farm Lots #136 and #144 Geddes and Lot #24 Camillus, according to a map thereof made by F.J. Schnauber, C.E., dated April 12, 1926 and filed in the Clerk's Office of Onondaga County September 29, 1926. Said part of Lot #13 of Block #4 of said Tract being a parcel of land 40 feet deep across the rear of said premises (Lot #3 Block #4), being the northerly 40 feet of said Lot #13.

PARCEL C:

ALL THAT TRACT OR PARCEL OF LAND, situate in the Town of Geddes, Village of Solvay, County of Onondaga and State of New York, and further being Lot Number Four (4) of Block Number Four (4) of the lands of Myron C. Darrow Estate on Farm Lots #136 and #144 Geddes and Lot #24 Camillus, according to a map thereof made by F.J. Schnauber, C.E., dated April 12, 1926 and filed in the Clerk's Office of Onondaga County September 29, 1926.

PARCEL D:

ALL THAT TRACT OR PARCEL OF LAND, situate in the Town of Geddes, Village of Solvay, County of Onondaga and State of New York, and known as Lots # 5 & #6 of Block 4 of the Myron C. Darrow Tract according to a map made by F.J. Schnauber, C.E., filed in the Onondaga County Clerk's Office on September 29, 1926.

ENVIRONMENTAL EASEMENT DESCRIPTION - NYSDEC SITE NO. V00665-7

All that piece or parcel of land, situate in the Town of Geddes, Village of Solvay, County of Onondaga and State of New York, being a portion of Farm Lots 136 & 144 Geddes and Lot 24 Camillus and further being Lot Numbers, One (1),Two (2), Three (3), Four (4), Five (5), Six (6) and a portion of Lot Thirteen (13) in Block Four (4) as shown on a map of the lands of Myron C. Darrow Estate dated April 12, 1926, filed as Map Number 2042 in the Office of the Clerk of the County of Onondaga and more particularly described as follows:

BEGINNING at a point on the southeasterly boundary of New York State Route 297 (Milton Avenue), an existing state highway, at its intersection with the northeasterly boundary of Bailey Street, an existing village street, thence; Along the southeasterly boundary of N.Y.S. Route 297, North 45°58'30" East a distance of 320.00 feet to a point at its intersection with the division line between the property of Aramark Uniform Services (Syracuse) LLC (reputed owner) on the northwest and the property of Deli-Boy Provision Co. (reputed owner) on the southeast, thence;

Along the last mentioned division line South 44°01'30" East a distance of 125.00 feet to a point at its intersection with the division line between the property of Aramark Uniform Services (Syracuse) LLC (reputed owner) on the northwest and the property of Mary F. Palumbo (reputed owner) on the southeast, thence;

Along the last mentioned division line South 45°58'30" West and continuing along the division lines of Desantis, the Victoria Duda Trust and Devereaux (reputed owners) on the southeast, a total distance of 170.00 feet to an angle point, thence;

South 44°01'30" East a distance of 40.00 feet continuing along the last mentioned division line to a point at its intersection with the division line between the property of Aramark Uniform Services (Syracuse) LLC (reputed owner) on the northwest and the property of Dan Simiele and Beverly Simiele (reputed owners) on the southeast, thence;

Along the last mentioned division line South 45°58'30" West a distance of 50.00 feet to a point on the division line between the property of Aramark Uniform Services (Syracuse) LLC (reputed owner) on the northeast and other property of Aramark Uniform Services (Syracuse) LLC (reputed owner) being Lot Twelve (12) of the aforementioned subdivision the northwest, thence;

Along the last mentioned division line North 44°01'30" West a distance of 40.00 feet to an angle point, thence;

South 45°58'30" West continuing along the said division line and along the division line of Aramark Uniform & Career Apparel Inc. (reputed owner) on the southeast, a total distance of 100.00 feet to a point on the northeasterly boundary of Bailey Street, thence;

Along the last mentioned street boundary North 44°01'30" West a distance of 125.00 feet to the point of beginning, being 42,000± square feet or 0.964 acres, more or less.

THE ENGINEERING AND INSTITUTIONAL CONTROLS FOR THIS EASEMENT ARE SET FORTH IN THE SITE MANAGEMENT PLAN (SMP). A COPY OF THE SMP MUST BE OBTAINED BY ANY PARTY WITH AN INTEREST IN THE PROPERTY. THE SMP CAN BE OBTAINED FROM NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION, DIVISION OF ENVIRONMENTAL REMEDIATION, SITE CONTROL SECTION, 625 BROADWAY, ALBANY, NY 12233 OR AT *DERWEB@GW.DEC.STATE.NY.US*

ENVIRONMENTAL EASEMENT AREA ACCESS

THE N.Y.S.D.E.C. AND / OR THEIR AGENTS MAY ACCESS THE ENVIRONMENTAL EASEMENT AREA AS SHOWN HEREON THROUGH ANY EXISTING STREET ACCESS OR BUILDING INGRESS / EGRESS ACCESS POINT.

UNAUTHORIZED ALTERATION OR ADDITION TO A SURVEY MAP BEARING A LICENSED LAND SURVEYOR'S SEAL IS A VIOLATION OF SECTION 7209, SUB-DIVISION 2, OF THE NEW YORK STATE EDUCATION LAW.

BOUNDARY REFERENCES

1. ABSTRACT OF TITLE, PREPARED BY TICOR TITLE, DATED MAY 1, 2003.
2. TITLE COMMITMENT NO. 1103-30113, PREPARED BY CHICAGO TITLE INSURANCE COMPANY, DATED MARCH 17, 2011.
3. MAP ENTITLED " MAP OF LANDS OF MYRON G. DARROW ESTATE..", DATED APRIL 12, 1926 AND FILED ON SEPTEMBER 29, 1926 AS PLAT NO. 2042.
4. DEED, FILED IN LIBER 4322, PAGE 182 - FEB. 26, 1991.
5. DEED, FILED IN LIBER 4329, PAGE 243 - MAY 5, 1999.
6. DEED, FILED IN LIBER 4765, PAGE 38 - JAN. 31, 2003.
7. DEED, FILED IN LIBER 4044, PAGE 171 - DEC. 1, 1995.
8. DEED, FILED IN LIBER 3581, PAGE 56 - JUL. 30, 1989.
9. DEED, FILED IN LIBER 3995, PAGE 81 - APR. 3, 1995.
10. DEED, FILED IN LIBER 4562, PAGE 144 - AUG. 31, 2002.
11. DEED, FILED IN LIBER 1808, PAGE 44 - MAY 15, 1956.
12. DEED, FILED IN LIBER 4818, PAGE 886 - JAN. 15, 2004.
13. DEED, FILED IN LIBER 4919, PAGE 662 - NOV. 30, 2005.

SURVEY NOTES

1. COORDINATES ARE REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (COORS) - NEW YORK STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE.
2. ELEVATIONS SHOWN HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
3. MAPPING UNITS ARE U.S. SURVEY FEET.
4. THE CONTOUR INTERVAL IS 1 FOOT.
5. UTILITIES SHOWN HEREON ARE BASED ON VISIBLE EVIDENCE. THE UNDERGROUND POSITION OF ALL UTILITIES SHOWN HEREON SHOULD BE CONSIDERED APPROXIMATE.

SURVEYOR'S CERTIFICATION

TO:

- THE PEOPLE OF NEW YORK STATE, ACTING THROUGH ITS COMMISSIONER OF THE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
- CHICAGO TITLE INSURANCE COMPANY
- ARAMARK UNIFORM SERVICES (SYRACUSE) LLC

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE "MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS," JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS IN 2005, AND INCLUDES ITEMS 2, 4, 5, 7a, 8, 11a, & 13 OF TABLE A THEREOF. PURSUANT TO THE ACCURACY STANDARDS AS ADOPTED BY ALTA AND NSPS AND IN EFFECT ON THE DATE OF THIS CERTIFICATION, UNDERSIGNED FURTHER CERTIFIES THAT IN MY PROFESSIONAL OPINION, AS A LAND SURVEYOR REGISTERED IN THE STATE OF NEW YORK, THE RELATIVE POSITIONAL ACCURACY OF THIS SURVEY DOES NOT EXCEED THAT WHICH IS SPECIFIED THEREIN.

STATE OF NEW YORK · MICHAEL ANTHONY VENTURO · 50079 · LICENSED LAND SURVEYOR

11/30/2010

MICHAEL A. VENTURO, LS 50079
FOR: POPLI DESIGN GROUP
555 Penbrooke Drive
Penfield, NY 14526
Phone: 585-388-2060

LEGEND

- TREE
- SHRUB / BUSH
- I.P. FND. IRON PIPE FOUND
- I.R. FND. IRON ROD FOUND
- UNKNOWN VENT
- FIRE HYDRANT
- WATER VALVE
- STORM DRAIN MANHOLE
- CATCH BASIN
- GAS VALVE
- G GAS METER
- E ELECTRIC METER
- UTILITY POLE
- UTILITY POLE W/ LIGHT
- BOLL. BOLLARD
- 109.1' BUILDING DIMENSION

SURVEY BY: POPLI DESIGN GROUP ARCHITECTURE | ENGINEERING
555 Penbrooke Drive Penfield NY 14526

PREPARED FOR: Barton & Loguidice, P.C. Engineers • Environmental Scientists • Planners • Landscape Architects

SURVEYOR JOB NUMBER:	SU40007.04
SURVEY CREW	J. PHILLIPS W. STRATTON
DRAWN BY:	J. PHILLIPS
CHECKED BY:	M. VENTURO

REVISIONS	
12/14/10	ADDED SAMPLE LOCATIONS
4/27/11	ENVIR. EASEMENT, CERT. & AREA MODIFIED

ALTA / ACSM LAND TITLE SURVEY

FOR THE

ARAMARK SITE
NYSDEC SITE NO. V00665-7

AT

3009 / 3117 MILTON AVENUE

Village of Solvay, County of Onondaga, State of New York

SCALE: 1" = 20'

DATE: NOVEMBER 30, 2010

Appendix D

Groundwater Monitoring Well and Soil Vapor Point Construction Logs

Barton & Loguidice, P.C.
Engineers • Environmental Scientists • Planners • Landscape Architects

SUBSURFACE INVESTIGATION LOG

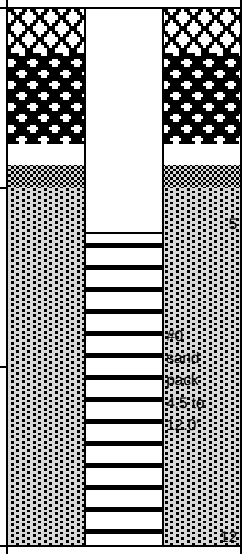
BORING NO. MW-A

B & L Project No. 909.001

Project:	ARAMARK Solvay		
Client:	The Wetlands Company		
Project Location:	3009 and 3117 Milton Avenue, Solvay, New York		
Drill Rig:	GeoProbe 6620	Elevation	Datum:
Casing		Northing:	Easting:
Soil Sampler:		Start Date: 11/24/2010	Finish Date: 11/24/2010
Sample Hammer Wt.	-- Fall: -- inches	Contractor:	Trec Environmental
Rock Sampler:	--	Driller:	
Other:		Geologist:	B. McGrath

Depth	Sample Type	Blows per 6"	N or RQD %	Recovery (ft)	PID (PPM)	Headspace	Material Description
				22"	0	3.2	ARTIFICIAL FILL: Gravel and rock fragments, sand, silt, brown, dry 0-3 ft 3-4 ft no odor
5				20"	0 0 3.2 3.1	110	SC: Sand, fine to coarse-grained, silts, slightly gravelly, brown and moist saturated at 7 ft Stained black at 7.5 ft. Slight petroleum odor at 7.5ft
10				17"	0	6.4	CL: Clay; low plasticity, silty to very silty, slightly sandy, fine grained, dark brown to brown-gray, moist to very moist No odor
15							

Well Completion Details



Grout 0-1'
Bentonite 1-4'
Choke sand 4-4.5'

flush-mount well completion with locking j-plug cap. Threaded end cap at bottom of casing. PVC screen is 0.010 continuous wrap.

Notes:

Barton & Loguidice, P.C.
Engineers • Environmental Scientists • Planners • Landscape Architects

SUBSURFACE INVESTIGATION LOG

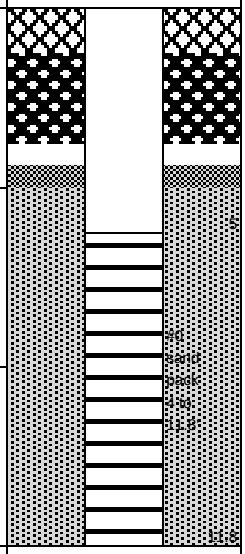
BORING NO. MW-B

B & L Project No. 909.001

Project:	ARAMARK Solvay		
Client:	The Wetlands Company		
Project Location:	3009 and 3117 Milton Avenue, Solvay, New York		
Drill Rig:	GeoProbe 6620	Elevation	Datum:
Casing		Northing:	Easting:
Soil Sampler:		Start Date: 11/24/2010	Finish Date: 11/24/2010
Sample Hammer Wt.	-- Fall: -- inches	Contractor:	Trec Environmental
Rock Sampler:	--	Driller:	
Other:		Geologist:	B. McGrath

Depth	Sample Type	Blows per 6"	N or RQD %	Recovery (ft)	PID (PPM)	Headspace	Material Description
				22"	0	0.5	ARTIFICIAL FILL: Gravel and rock fragments, sand, silt, gray to olive, dry to slightly moist. 0-3 ft 3-4 ft slightly moist to moist black - no odor
5 ▽				20"	0	1.5	SC: Sand, fine to coarse-grained, silts, slightly gravelly, reddish brown and moist No odor saturated at 7 ft
10				17"	0	1.7	CL: Clay; low plasticity, silty to very silty, slightly sandy, fine grained, dark brown to brown-gray, moist to very moist No odor
15				3"	0	5	very little recovery - same as above

Well Completion Details



Grout 0-1'
Bentonite 1-3.5'
Choke sand 3.5-4'

flush-mount well completion with locking j-plug cap. Threaded end cap at bottom of casing. PVC screen is 0.010 continuous wrap.

Notes:

Barton & Loguidice, P.C.
Engineers • Environmental Scientists • Planners • Landscape Architects

SUBSURFACE INVESTIGATION LOG

BORING NO. Vap-A

B & L Project No. 909.001

Project:	ARAMARK Solvay		
Client:	The Wetlands Company		
Project Location: 3009 and 3117 Milton Avenue, Solvay, New York			
Drill Rig:	Hand Core Drill	Elevation	Datum:
Casing		Northing:	Easting:
Soil Sampler:		Start Date: 11/24/2010	Finish Date: 11/24/2010
Sample Hammer Wt. --	Fall: -- inches	Contractor:	Trec Environmental
Rock Sampler: --		Driller:	
Other:		Geologist:	B. McGrath

Depth	Sample Type	Blows per 6"	N or RQD %	Recovery (ft)	PID (PPM)	Headspace	Material Description	Well Completion Details
0							CONCRETE: 0-8" ARTIFICIAL FILL: Gravel and rock fragments, sand, 8-15"	Concrete 0-8" Bentonite 8-11" Sand Pack 11-15" Vapor Implant 15"
5								
10								
15								

Notes:

Barton & Loguidice, P.C.
Engineers • Environmental Scientists • Planners • Landscape Architects

SUBSURFACE INVESTIGATION LOG

BORING NO. Vap-B

B & L Project No. 909.001

Project:	ARAMARK Solvay		
Client:	The Wetlands Company		
Project Location: 3009 and 3117 Milton Avenue, Solvay, New York			
Drill Rig:	Hand Core Drill	Elevation	Datum:
Casing		Northing:	Easting:
Soil Sampler:		Start Date: 11/24/2010	Finish Date: 11/24/2010
Sample Hammer Wt. --	Fall: -- inches	Contractor:	Trec Environmental
Rock Sampler: --		Driller:	
Other:		Geologist:	B. McGrath

Depth	Sample Type	Blows per 6"	N or RQD %	Recovery (ft)	PID (PPM)	Headspace	Material Description	Well Completion Details
							CONCRETE: 0-6" ARTIFICIAL FILL: Gravel and rock fragments, sand, 6-15"	Concrete 0-6" Bentonite 6-9" Sand Pack 9-15" Vapor Implant 15"
5								
10								
15								

Notes:

Appendix E

Non-Hazardous Waste Manifests

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	1	585.436.5660	11-0077

GENERATOR

5. Generator's Name and Mailing Address
ARAMARK
3117 MILTON AVE.
SOLVAY NY 13209
Generator's Phone: 585 594.5545

Attn: KEITH @ TREC ENV. Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name: NEW YORK ENVIRONMENTAL TECHNOLOGIES, INC.
U.S. EPA ID Number: NYD986983229

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CYCLE CHEM, INC.
550 INDUSTRIAL DR.
LEWISBERRY PA 17339
Facility's Phone: 717 938-4700
U.S. EPA ID Number: PAD067098822

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON RCRA NON DOT SOLIDS, NOS (OIL SOAKED DEBRIS)	004	DM	01000	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
a. Job #R4696 / PO#35076

14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.
Generator's/Offeror's Printed/Typed Name: Bill Fisk Signature: Bill Fisk Month: 2 Day: 22 Year: 11

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Kevin Mikel Signature: Kevin Mikel Month: 2 Day: 22 Year: 11
Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Lisa Klamick Signature: Lisa Klamick Month: 02 Day: 23 Year: 11

169-BLS-C 5 11979 (Rev. 8/06)

TRANSPORTER #1