

CONSTRUCTION CERTIFICATION REPORT

ALLTIFT LANDFILL SITE

Buffalo, New York

NYSDEC Site No. 9-15-054

and

RAMCO STEEL SITE

Buffalo, New York

NYSDEC Site No. 9-15-046B

SUBMITTED TO:



NEW YORK STATE DEPARTMENT
OF ENVIRONMENTAL CONSERVATION
DIVISION OF HAZARDOUS
WASTE REMEDIATION

PREPARED FOR:

Honeywell

Morristown, New Jersey

PREPARED BY:

PARSONS

180 Lawrence Bell Drive, Suite 104
Williamsville, New York 14221

This Document has been appended by NYSDEC (11/15/12) to include:

ALTA Survey dated 6/23/11 by TVGA
Environmental Notice - 302 Abby Street
Deed Restriction - 106 Abby Street
Deed Restriction - Skyway Autos

April 2006

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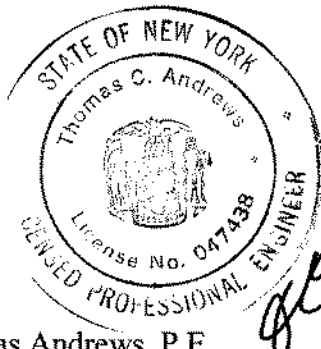
180 Lawrence Bell Drive, Suite 104
Williamsville, New York 14221

April 2006

**Construction Certification Report
Alltft Landfill Site and Ramco Steel Site
NYSDEC Site No: 9-15-054 and 9-15-046B**

Engineering Certification Statement

I hereby certify that the requirements of the NYSDEC-approved "Final (100%) Remedial Design Report For: Alltft Landfill Site, Buffalo, New York, NYSDEC Site No. 9-15-054 and Ramco Steel Site, Buffalo New York, NYSDEC Site No. 9-15-046B," dated May 2003, have been complied with, and all construction activities have been completed in accordance with the NYSDEC-approved Final Design Report, with the exceptions noted within this Construction Certification Report, and in the attached field changes and field approvals.



Thomas Andrews, P.E.
New York State Professional Engineer
No. 047438

PARSONS

180 Lawrence Bell Drive, Suite 104
Williamsville, New York 14221

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SECTION 1 INTRODUCTION

1.1 PURPOSE

The purpose of this Construction Certification Report is to present the observations and data collected during the remedial construction at the Alltft Landfill Site (NYSDEC No. 9-15-054) and Ramco Steel Site (NYSDEC No. 9-15-046B). The report also documents that the construction was completed in conformance with the New York State Department of Environmental Conservation (NYSDEC) Order on Consent dated December 1997 (NYSDEC, 1997), the NYSDEC-approved Final (100%) Remedial Design Report dated May 2003 (Parsons, 2003a), and the Contract Documents (Parsons, 2003b), with the exceptions noted within this Construction Certification Report.

This Construction Certification Report includes documentation related to construction methods, quality assurance/quality control testing, operational difficulties and resolution thereof, horizontal and vertical control, geotechnical testing, and materials verification. Conformance with the Design Report and requirements and subsequent specifications within the Contract Documents were monitored as well.

Repair, monitoring or maintenance operations, following the construction phase, are not addressed in this report.

1.2 PROJECT LOCATION

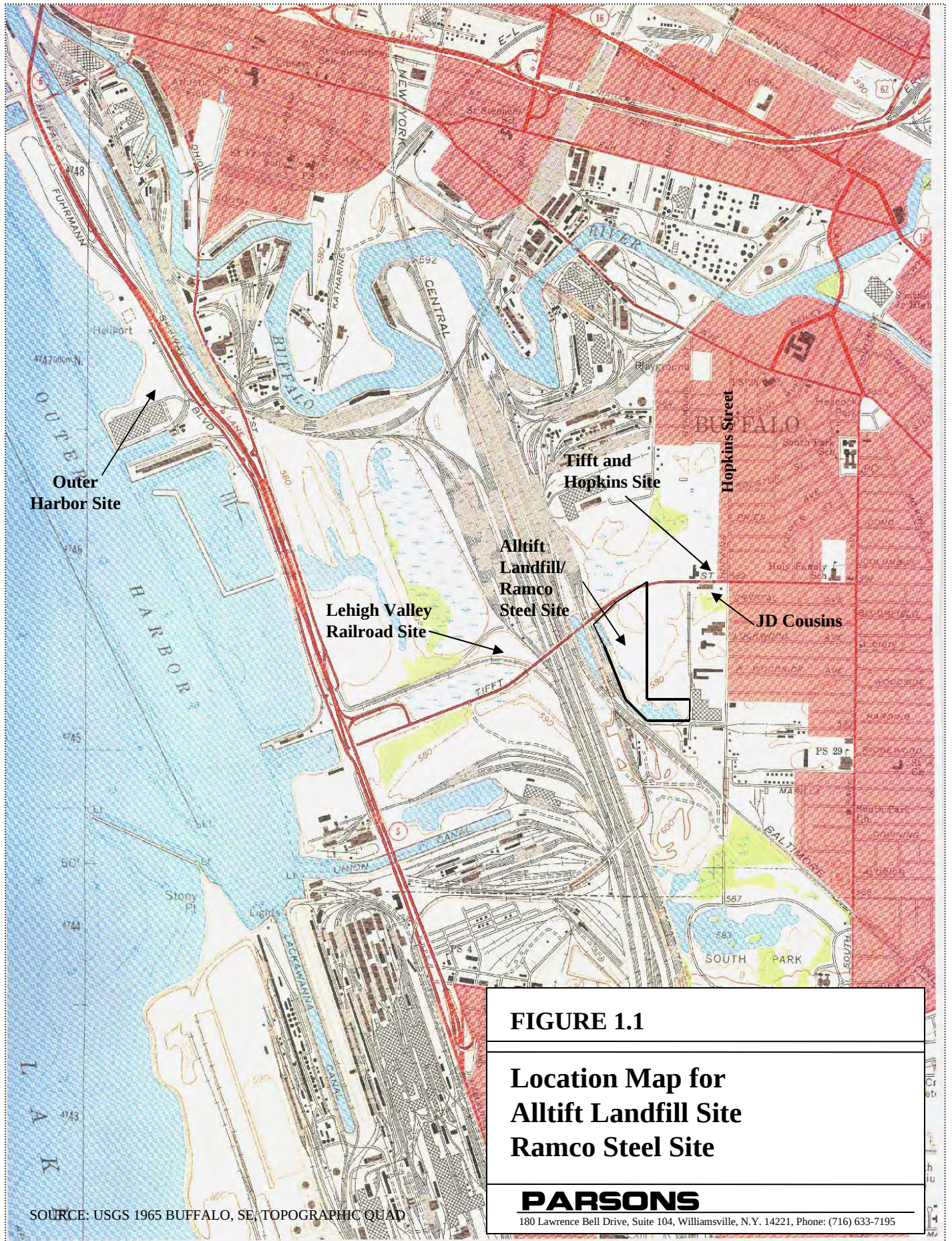
The Alltft Landfill Site is located at 579 Tift Street in the southern portion of the City of Buffalo, Erie County, New York (Figure 1.1). It is located south of Tift Street, approximately 1,300 feet west of Hopkins Street and 5,000 feet east of the intersection of Tift Street and Route 5. It is bounded on the north by Tift Street; on the west by a railroad right-of-way and tracks; on the south by several ponds and the Ramco Steel Site and on the east by Skyway Auto Parts, Inc. There are wetlands on the southern portion of the Site and along the western edge of the Site. Prior to remedial construction, the landfill was approximately 25 to 30 acres in size and triangular in shape with the surface of the fill rising about 30 feet above the surrounding terrain.

The Ramco Steel Site is adjacent to the southeastern tip of the Alltft Landfill. The Ramco Steel Site is approximately 8.5 acres in size and generally square in shape. It is bounded on the north by the Alltft Landfill and Skyway Auto Parts, Inc.; on the east by Niagara Cold Drawn; on the west by a railroad right-of-way and tracks, and on the south by Republic Steel or LTV (NYSDEC Site. No. 9-15-047) and an abandoned facility, formerly housing Sloan Auto Parts. The Ramco Steel Site encompasses the body of water known as the Ramco Pond.

1.3 PROJECT RESPONSIBILITIES/PARTICIPANTS

The primary active participants in the remedial action, along with their roles and responsibilities, are shown in the table below.

Participant	Role/Responsibility
Honeywell	Project owner. Entered into Consent Order with NYSDEC.
NYSDEC	Lead regulatory agency, responsible to ensure compliance with Consent Order and Record of Decision. Also responsible for citizen's participation activities. Reviews and approves work plans and reports.
NYSDOH	Reviews work plans and reports, works with NYSDEC.
USACE	Responsible for issuing permit to complete remedial action within wetlands, and to create new wetland areas.
de maximis	Construction management, including contractor oversight, budget management, and consultation with outside affected parties including the public and property owners.
City of Buffalo	Owner of majority of the Site property.
Parsons	Design engineer of record, and also responsible for construction quality assurance. Provide construction oversight, reporting to de maximis, and assisting de maximis with items including submittal review, regulatory issues, safety, schedule and cost control compliance.
Tug Hill Construction	Construction contractor, responsible for implementing the remedy in accordance with the Contract Documents and approved changes. Responsible for means, methods, techniques, sequence, and procedures of construction.
GZA Geoenvironmental (subcontractor to Tug Hill)	Responsible for construction quality control (CQC), and health and safety monitoring and oversight. Details of CQC program are contained in the December 2003 CQC Plan (GZA, 2003).



SECTION 2 SITE DESCRIPTION AND HISTORY

2.1 SITE DESCRIPTION

The Alltft Landfill/Ramco Steel Site, located in Buffalo, Erie County, New York, is an amalgamation of two historical distinct, yet adjoining sites. The Alltft Landfill Site originally occupied approximately 25 acres (Figure 2.1).

The triangular shaped parcel is bounded by Tifft Street to the north, a paper street known as Abbey Street and the Skyway Auto Parts property to the east, and a railroad corridor on the south and west. The City of Buffalo has identified a paper street (i.e. on paper only – not physically present) known as Colgate Street to the south.

The Ramco Steel Site is an 8.5 acre parcel that was originally part of a larger property, subdivided from what is now the Niagara Cold Drawn property (Niagara LaSalle). It is bounded to the north by the Skyway Auto Parts property and to the west by the South Buffalo Railroad lands and the Alltft Site. It is bounded to the south by the paper street known as Colgate Street, and a railroad corridor.

Due to the proximity of the two sites and the similarity of the remedial actions that were identified in the respective RODs, the sites were combined for remedial purposes.

Land use in the vicinity of the Site is commercial and industrial with residential/light industrial areas to the east. It is located in an urban industrial area of South Buffalo which has been zoned as M2, General Industrial.

2.2 SITE HISTORY

Ramco Steel

The Ramco Steel Site was owned and/or operated by a number of companies from 1929 to the present. Bliss and Laughlin operated the plant from 1929 to 1972. Ramco/Fitzsimmons purchased the property in 1972, and operated there until 1986. In 1986, the property was subdivided into two parcels, consisting of the main building structure and the western pond area. The pond area became the property of Hopkins-Tifft Realty. The western property, containing the pond, is the Ramco Steel Site.

During the manufacturing of steel products, a sulfuric acid bath (also known as a pickling operation) was used to clean the steel. The spent acid, or pickle liquor, and wash-water from the operation, were discharged into the pond until 1979. Occasionally the pond was dredged, with the sediments left on-site.

The Ramco Steel Site was placed on the NYSDEC Registry of Inactive Hazardous Waste Disposal Sites as a Class 2a (temporary classification). Based on the results of the Phase I Investigation completed by NYSDEC in June 1989, it was reclassified as a Class 2 (significant threat to public health or the environment – action required) site in 1990.

In 1991, NYSDEC contacted the potentially responsible parties to undertake a remedial investigation and feasibility study. In November 1992, Axia, Inc., the successor

to Bliss and Laughlin, entered into a Consent Order to conduct a remedial investigation. In 1994, Axia entered into a second Order to complete a feasibility study.

The Remedial Investigation Report for the Ramco Steel Site was completed in August 1994 (Dames and Moore), and the Feasibility Study was completed in January 1995 (Dames and Moore).

In March 1996, NYSDEC issued a Record of Decision which identified the selected remedy as excavation of contaminated sediments and soils, with the material to be consolidated under the proposed cap at the Alltft Landfill Site. The pond and wetland areas were to be restored.

Alltft Landfill Site

The Alltft Landfill was operated from at least the 1930s until 1984. It was owned and operated by the City of Buffalo as a municipal landfill until 1957. From 1957 through 1975, Abtft Realty owned and operated it as a landfill, and the landfill was used for the disposal of commercial/industrial wastes. From 1975 to 1992, the Site was owned by Alltft Realty Inc., and wastes, including wastes from an automobile shredder operation, fly ash, foundry sand, and demolition debris were disposed of. Landfilling activities ceased in February 1984. The City of Buffalo took title to the Site in 1992.

The initial environmental investigation was conducted by Alltft Realty in 1978 in support of a Part 360 permit application. (Recra Research, 1980). In 1983, Dames and Moore completed a Phase I Investigation for NYSDEC, with a Phase II Investigation completed in 1986 (Engineering-Science, 1986).

In June 1991, Allied-Signal, Inc., the predecessor to Honeywell, entered into an Order on Consent (Index No. B9-0194-87-07) with NYSDEC to complete a remedial investigation and feasibility study. The Remedial Investigation Report was issued in August 1994 (AFI, 1994) and the Feasibility Study Report was issued in January 1995 (ERM, 1995).

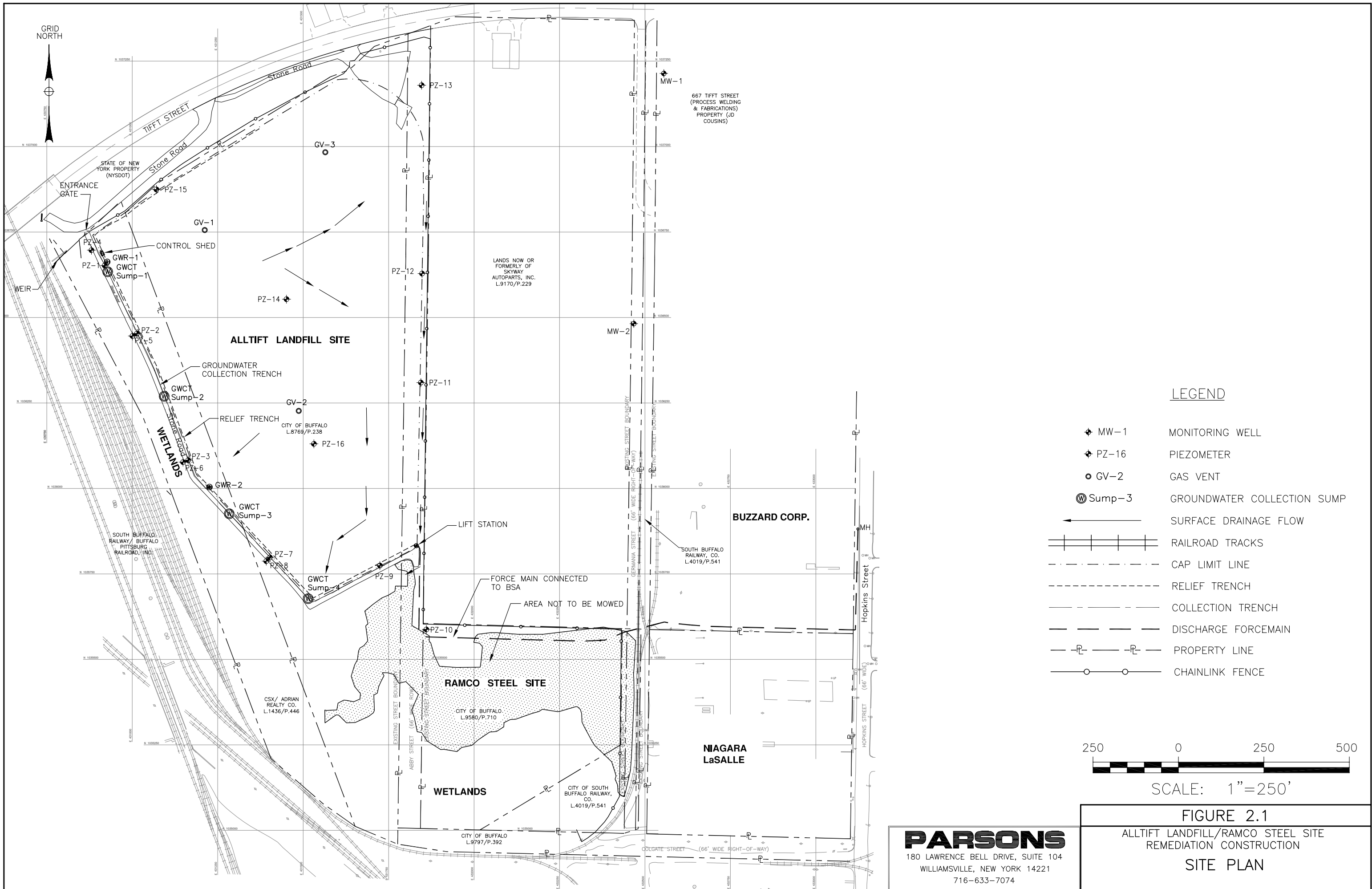
In March 1995, NYSDEC completed a Record of Decision. The ROD selected a remedy consisting of excavation and consolidation of contaminated soil and sediments, capping of the landfill, pond and wetland restoration, construction of a groundwater collection trench, and, if needed, operation of the collection trench.

Joint Remediation of the Alltft Landfill Site and Ramco Steel Site

In December 1997, AlliedSignal, Inc. entered into an Order-on-Consent with NYSDEC for the development and implementation of a joint remedial program for both sites. Pre-design investigation work was completed in 1997, consisting of a groundwater evaluation and treatability study, geotechnical investigation, landfill gas survey and sediment sampling and dewatering. The results of these investigations were included in the Final (100%) Design Report, that was issued in May 2003 (Parsons, 2003a). Remedial construction began in November 2003 and was completed in November 2005.

2.3 PROPERTY OWNERSHIP

To meet the project objectives, work was conducted on various properties. Access to certain properties is required for ongoing operations and maintenance activities. Property ownership and boundaries are shown on Drawing C-1 in Appendix A. Access agreements are presented in Section 6.2.



SECTION 3

SITE GEOLOGY AND HYDROGEOLOGY

This section summarizes Site geology and hydrogeology prior to remedial construction activities. The discussions below were excerpted from the Alltft RI Report (AFI, 1994) and the Ramco Steel RI Report (Dames and Moore, 1994).

3.1 GEOLOGY

The bedrock underlying the Site consists of two units: the Skaneateles Formation, and the underlying Marcellus Formation. These formations provide an alternating sequence of shale and dolomite limestone bedrock. The Skaneateles Formation is predominantly composed of shale, with limestone encountered at the base of the formation. The Marcellus Formation, found beneath the Skaneateles Formation, is composed of black shale. The upper shale of the Skaneateles Formation was not encountered during investigation activities. The Skaneateles limestone appears to thin in a northerly direction and pinch out beneath the landfill.

The upper surface of both units is fractured and irregular. The bedrock surface slopes to the north-northwest and has a maximum relief of approximately 50 feet. There is a prominent northeast-southwest trending escarpment which extends through the central portion of the Site, across the Skyway property (east of the Site) and into the IWS property. This escarpment has a maximum relief of about 30 feet. In the vicinity of the escarpment (center of the Site), the bedrock has been identified as black shale. The southern portion of the Site is also underlain by a gray limestone at shallow depths.

Overlying the bedrock is a layer of sand/gravel/silt till, which occurs intermittently. A thick sequence of lacustrine deposits overlies the till (or occurs directly on bedrock in areas where the till is absent). The lacustrine sediments are generally comprised of two units. The lower part of the sequence is predominantly gray clay to silty clay. The lacustrine sediments grade vertically upward into silt and fine sand and silty clay layers.

The silty clay is thickest in the northern portion of the Site, and is locally absent, or very thin, in the southern portion of the Site where the bedrock is near an elevation of approximately 575 feet. The clay ranges in thickness up to 48 feet, and the silty sand deposits range up to 25 feet thick.

Overlying the lacustrine deposits are the recent sediments which consist of a thin (up to 2 feet) layer of black, organic rich silt. This layer is generally present in the areas west, south and east of the landfill. Landfill-related waste materials lie directly on the silty clay over most of the Site, except in the southern end of the Site (near the Ramco Pond), and along the east and west margins of the landfill, where the wastes overlie the silt and fine sand materials.

3.2 HYDROGEOLOGY

Based on the available data, two water-bearing units have been identified beneath the Site: an upper water-bearing unit (shallow aquifer), comprised of the silt/sand unit of the

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lacustrine deposits and fill material, and a deeper zone consisting of the upper part of the bedrock, and the overlying till. These two units are believed to be separated by the low hydraulic conductivity silty clay or till confining layers consistently identified across the site and adjacent areas. The upper water-bearing zone is hydraulically connected with the western and southern surface water bodies, and potentially, at the southern end of the Site where the clay is absent, the deep aquifer. The deep aquifer may also be hydraulically connected to the Ramco Pond, due to the absence of clay in portions of the pond.

Prior to remediation, the shallow aquifer exhibited a slight mounding (maximum of 3 to 4 feet) in the immediate vicinity of the landfill area, with radial flow outwards in all directions. Groundwater flowing to the north, west, and south ultimately discharged to the ponds along the western and southern sides of the landfill. An eastward component of flow from the mounded area appeared to turn southerly towards the Ramco Pond.

The piezometric surface in the deep aquifer shows a flow direction to the northwest. The gradient varies considerably due to the presence of the escarpment. Steepest gradients are found in the southern central portion of the Site, in the vicinity of the bedrock escarpment.

3.3 UPDATE

During remedial construction, features and patterns observed during the remedial investigations, and subsequent pre-design investigations, were generally confirmed. The bedrock escarpment was encountered, as predicted. Shallow bedrock, in the vicinity of the Ramco Pond, and the southernmost western pond (Pond C area) resulted in slight modifications to excavation depths. Final elevations within the Ramco Pond vicinity were also modified to some degree to account for the irregular bedrock surface. Initial purging of the groundwater collection trench, after installation, indicated coarser-grained, higher permeability sediments, with greater recharge, in the northern section of the trench, relative to the southern sections.

SECTION 4

NATURE AND EXTENT OF IMPACTS

This section summarizes the nature and extent of pre-remedial impacted media (groundwater, soil, sediment) at the Site. The discussions below were summarized from the March 1996 Ramco Steel Site Record of Decision (NYSDEC, 1996) and the March 1995 Alltft Landfill Site Record of Decision (NYSDEC, 1995). Much of the information in the records of decision was summarized from the Alltft RI report (AFI, 1994) and the Ramco Steel RI Report (Dames and Moore, 1994).

4.1 RAMCO STEEL SITE

The Ramco Pond and soil in the adjacent fill area to the northeast were tested during several preliminary site investigations and the remedial investigation. The chemical analytical results from sediment, soil, groundwater and surface water showed that the major impacts were due to metals, which resulted from the steel manufacturing operations.

Sediment

The sediment from the Ramco Pond was found to contain metals (aluminum, arsenic, chromium, hexavalent chromium, copper, iron, lead, manganese, mercury, nickel, and zinc) at concentrations above the NYSDEC Sediment Criteria (NYSDEC, 1993). Subsequent pre-design sampling conducted in June 1997 confirmed the earlier results. In this event, metals exceeded their respective cleanup goals at most of the sample locations in the pond, in shallow samples within the top two feet. In deeper pond samples (two to four feet), metals concentrations were distinctly lower than in the upper two feet of sediment.

Soil

The levels of chromium, copper, iron, lead, manganese and mercury were found above the NYSDEC-recommended soil cleanup objectives (NYSDEC, 1994) in soils within the fill area. Among the organics, traces of acetone, 2-butanone, ethylbenzene, toluene, xylene, tetrachloroethane, and polycyclic aromatic hydrocarbons (PAHs) were detected. PCBs were detected, but at concentrations below the recommended soil cleanup objectives. Metals, such as aluminum, chromium, copper, and iron, were found in surface soil and/or waste pile samples at concentrations above the cleanup objectives.

Groundwater

During the remedial investigation, one bedrock, three overburden, and two interface wells were sampled and tested for inorganics, volatiles and semivolatile organics. The levels of metals such as chromium, iron, lead, manganese, and zinc exceeded NYSDEC groundwater quality standards (NYSDEC, 1998a). Specifically, the levels of lead were exceeded in two wells while zinc was exceeded in only one well. Phenol was detected in a single well above the groundwater standard, at a concentration of 25 ug/L.

Surface Water

In surface water samples from the Ramco Pond, only iron, magnesium, and manganese were found above NYSDEC surface water standards.

4.2 ALLTIFT LANDFILL SITE

Soil, groundwater, surface water, and sediment each contained constituents related to materials disposed of at the Site.

Soil/Landfill Materials

Chemical constituents detected in landfill soils and materials consisted primarily of SVOCs and metals, with a limited presence of VOCs, PCBs, and pesticides. SVOCs, such as benzo(a)anthracene and benzo(a)pyrene, were detected at some locations above cleanup objectives. Metals, including antimony, arsenic, chromium, cadmium, lead, and mercury were also detected above cleanup objectives. These same materials were also observed to be present at depth on a portion of the adjoining Skyway Auto Parts property.

Groundwater

The shallow groundwater zone was impacted beneath the landfill. Elevated levels of VOCs and SVOCs (above water quality standards) were detected in some locations. Metals were generally elevated in most of the samples, with some samples exceeding water quality standards. Away from the landfill, Site-related impacts to groundwater were limited.

Subsequent groundwater monitoring results obtained in May 2002 and January 2003, as part of the pre-design investigation, were similar to the RI results, and indicated that concentrations of chemicals of concern have remained relatively stable since the time of the remedial investigation. Three wells (MW-4S, MW-6S, and MW-9S) were sampled in January 2003, utilizing low-flow sampling techniques to minimize turbidity and obtain more representative groundwater samples. These results indicated that actual groundwater concentrations, particularly metals and PCBs, may be lower than previously observed. Using the low-flow sampling techniques, the only metals listed as chemicals of concern in the ROD that exceeded the criteria were iron in all three wells, and manganese in MW-4S. PCBs were not detected.

In the deep zone (bedrock), benzene, toluene, ethylbenzene, and xylene (BTEX) exceeded groundwater standards. There is evidence that BTEX in local bedrock aquifers may be naturally occurring due to the petroliferous nature of the shales. (Buehler and Tesmer, 1963). Chlorobenzene was detected slightly above the groundwater standard in one well in the southeast corner of the Site.

Sediments (ponds west of the landfill boundary and downstream of the Ramco Pond)

SVOCs, consisting primarily of PAHs, and metals, were detected at concentrations above NYSDEC sediment criteria in several samples during the remedial investigation phase. Subsequent pre-design sampling was conducted in June 1997. In that event, with the exception of dibenzofuran in one shallow (0 to 2 feet) sample from the northernmost

pond (Pond A), no SVOCs were detected in any of the samples above cleanup goals. As mentioned above for the Ramco Pond, metals exceeded cleanup goals at most of the sample locations within the top two feet. In deeper pond samples (two to four feet), metals concentrations were distinctly lower than in the first two feet of sediment.

Surface Water

No VOCs or SVOCs were detected above surface water standards. Elevated metals, above surface water quality standards, included hexavalent chromium and iron.

SECTION 5

SUMMARY OF SELECTED REMEDY

The remedy selected for the Alltift Landfill/Ramco Steel Site was identified in their respective Records of Decision for the Alltift Landfill Site (March 1995) and the Ramco Steel Site (March 1996).

In accordance with the RODs, and NYSDEC's criteria for protection of human health and the environment, the following remedial action items were implemented:

- **Sediment Management.** Sediments from Ponds A, B, C, and the Ramco Pond were excavated and consolidated onto the landfill. Wetland and pond areas excavated as part of the sediment management task were restored. Restoration included the placement of clay soils to seal the bottom of the restored pond and the placement of substrate soil over the clay and fill areas for revegetation. Disturbed pond and wetland areas were revegetated with wetland plants.
- **Waste Consolidation.** Alltift Landfill material placement that occurred outside the margins of the natural clay layer was consolidated within the boundaries determined appropriate from predesign investigations. Ramco Steel waste located outside of the Ramco Pond was excavated and consolidated with the Alltift Landfill waste. In addition, approximately 37,950 cubic yards of material from the J.D. Cousins Site, Lehigh Valley Railroad Site, the Tift and Hopkins Site, and the Outer Harbor/Radio Tower Area Site were also consolidated under the capped area (see Section 6.13.)

Waste material is located on the Skyway Auto Parts property bordering the eastern side of the landfill. The Alltift ROD specified that these materials would not be excavated, since groundwater from the Skyway property is expected to flow westerly, and be intercepted by the groundwater collection trench (see Groundwater Control below). In addition, during construction, a low permeability clay liner was installed through the ditch adjacent to the Skyway property to limit the potential for surface water infiltration through any wastes left in place on the Alltift Site in that area (see Section 6.7.2).
- **Capping.** The landfill was capped in accordance with 6 NYCRR Part 360 - Regulations for Solid Waste Management Facilities. The multi-layer cap consists of a suitable subbase, a geonet composite gas venting system, a geomembrane barrier layer, a geonet composite drainage layer, two feet of cover soil to protect the barrier layer, and a 6-inch topsoil layer to support vegetation. A cap component detail is shown on drawing C-10 included in Appendix A.
- **Water Management.** Appropriate surface water management systems were installed to control Site storm water and provide recharge of Site ponds/wetlands.

- **Groundwater Control.** A groundwater collection trench was installed along the western and southern perimeter of the landfill cap to intercept shallow groundwater, including groundwater from the upgradient Skyway Auto Parts property.

The components of the proposed remedial action were presented on the construction drawings and technical specifications included in the Final (100%) Remedial Design Report, which was approved by NYSDEC on June 6 2003.

SECTION 6 CONSTRUCTION DOCUMENTATION

This section describes the remedial construction work, monitoring activities, and quality assurance/quality controls used to certify each construction element. It also provides an overview of the health and safety program, and presents explanations for deviations made from the original design or contract documents. Record drawings are provided in Appendix A, and a photographic log, giving examples of each primary construction activity, is provided in Appendix B. All other construction documentation, including product submittals, daily field quality assurance reports, field changes and approvals, permits, and well installation logs, are provided in Appendices C through J.

The remedial work began in November 2003, and was completed in November 2005. A schedule, showing key activities completed, is presented below.

Construction Element	Start Date	End Date
Remedial Action Work Plan	10/6/03	12/12/03
Relocate Drums	11/26/03	11/26/03
Mobilization/ Office/Equipment Areas	12/8/03	1/9/04
Waste Relocation	3/8/04	9/1/04
Sediment Relocation (from ponds)	4/19/04	7/29/04
Groundwater Collection Trench	9/22/04	10/15/04
Well Abandonment and Installation	12/15/03	11/15/04
Winter Shutdown	11/1/04	4/15/05
Landfill Capping System	8/12/04	6/24/05
Demobilization	7/18/05	7/29/05
Wetland Restoration/Plantings	6/1/05	November 2005

6.1 SURVEY CONTROL

The design was based on a topographic survey of the Site completed by Erdman Anthony and Associates, Inc. in 1989. This survey was updated in 1999 during the remedial design phase by TVGA Surveying Inc. using aerial photography. The survey was completed with vertical control referenced to National Geodetic Vertical Datum (NGVD 1929) and horizontal control referenced to State Plane Coordinate system (NAD 1983).

Surveying during construction was performed by Clear Creek Land Surveying, LLC. of Springville New York under the direction of William J. Tucker, PLS #50369 and under a subcontract to Tug Hill. Clear Creek was responsible for establishing survey control and for checking and verifying as-built thickness and elevations with those shown on the plans. Clear Creek was also responsible for providing the following survey data:

- Existing topography prior to material and sediment excavation;
- Topography following material and sediment excavation and consolidation;
- Subgrade of the proposed landfill surface;
- Topography following wetland restoration grading (see panel layout in Drawing C-05);
- Location of geomembrane, including seams and repairs;
- Top of topsoil with elevations and thicknesses; and
- Miscellaneous details (drainage features, roads, fences, gas vents monitoring wells).

The survey control used during construction and preparation of the record drawings was referenced to the vertical datum NGVD 1929. The horizontal datum refers to NYS Plane Coordinates, West Zone, NAD 1927.

6.2 PERMITS AND ACCESS AGREEMENTS

6.2.1 Permits

Wetland Permit

On March 24, 2004, The United States Army Corps of Engineers (USACE) issued a verification of the applicability of the Nationwide Permit No (38) as published in the Federal Register, Volume 67, No. 10, Tuesday January 15, 2002. This verification was based upon Application No. 98-976-0162 (0) submitted by Parsons on behalf of Honeywell.

This permit allowed the filling of approximately 8.4 acres of jurisdictional wetland in connection with the remediation of the Site. The permit also required the creation of not less than 11.2 acres of wetland in accordance with the design documents. A copy of the wetland permit has been included as Appendix C. A revised wetland plan and field change form (signed by NYSDEC on October 29, 2004) was submitted to the USACE on March 25, 2005. The revisions documented changes to the created wetlands due to conditions encountered during remedial construction.

SHPO Determination

On February 20, 2004, Parsons sent a request for comments to the New York State Office of Parks, Recreation and Historic Preservation State Historic Preservation Office (SHPO). The SHPO reviewed the project in accordance with Section 106 of the National Historic Preservation Act of 1966. SHPO found that the project will have “No Effect” upon cultural resources in or eligible for inclusion in the National Register of Historic Places. A copy of the request to the SHPO and their determination are included in Appendix C.

New York State Department of Transportation

Honeywell obtained a Highway Work Permit from the New York State Department of Transportation (NYSDOT) in order to excavate and remove impacted soils outside of the cap area along the Tift Street ROW. The initial permit (5-03-0746) was issued in February 2004 with an April 2004 expiration date. In February 2005, a continuation of the permit was issued (5-04-0721) with an expiration date of December 31, 2005 (Appendix C).

City of Buffalo (and affiliated entities)

Permits were obtained for:

- A connection to the sewer system on Hopkins Street;
- Electrical connections for the trailers (temporary) and for operating pumps (permanent); and
- Water hookup to Tift Street (temporary).

These permits are provided in Appendix C.

Buffalo Sewer Authority

The Buffalo Sewer Authority (BSA) issued a permit (Permit No. 04-08-BU0908) on November 9, 2004, to discharge wastewater from the Site to the Buffalo Municipal Sewer System. The permit is valid from December 1, 2004 through November 30, 2007. Discharge limitations and monitoring requirements are listed in the permit. Currently, water collected from the groundwater relief trench and the groundwater collection trench are pumped and discharged without treatment to a manhole on the west side of Hopkins Street, approximately 20 feet south of the Niagara LaSalle/Buzzard property line (Appendix A, Drawing C-17).

6.2.2 Access Agreements

A list of access agreements utilized during the course of the remedial action, and in some cases, needed for continued operations and maintenance, is provided in Table 6.1. Property boundaries and ownership are shown on Drawing C-01 in Appendix A.

6.3 CLEARING AND GRUBBING

The Site was cleared of all existing fences, trees, shrubs, and other vegetation. Woody materials were chipped and reused as mulch for erosion control during

construction then consolidated into the landfill. Non-woody material such as fencing was consolidated into the landfill.

During clearing, a water line with three fire hydrants was identified along paper Abby Street extending southward from Tift Street. The City of Buffalo Water Department confirmed that the line was not in service and had been abandoned. The hydrants were removed to a depth of three feet below the design subgrade elevation and the line was filled with grout. At the northeastern corner of the Site outside of the cap limits, an excavation was opened to expose the line, and remove all pipe bedding material. The excavation was filled with flowable fill (a flyash-grout mixture) to eliminate the potential migration pathway through the pipe bedding.

Prior to clearing and grubbing, 50 intact steel drums were observed on the ground surface, in the northeastern corner of the Site. The NYSDEC agreed that the drums contained investigation-derived wastes from previous investigations. The materials were removed and the drums were crushed. The material and crushed drums were consolidated into the landfill.

6.4 MONITORING WELL DECOMMISSIONING

6.4.1 Decommissioning

A total of 43 existing groundwater monitoring wells and piezometers were decommissioned and abandoned during remedial construction. Well decommissioning and abandonment were completed in accordance with Specification 02085 and the guidance provided in the NYSDEC Groundwater Monitoring Well Decommissioning Procedures, April 2003.

Seventeen points were identified through record searches, but were not located during construction. The points were from the “PZ” series installed by ERM in 1993 or the “W” series installed by Wehran in 1982. Boring logs indicate that the “PZ” points were mainly installed west of the ponds and generally did not exceed 10 feet in depth. Boring logs indicate that the “W” series wells were installed to depths exceeding 50 feet.

6.4.2 Field Changes

Field Change No. 002 was authorized by NYSDEC in July 2004 to allow the decommissioning of six wells/piezometers (MW-1S, 6256, PZ-6, PZ-11, PZ-12, and PZ-15) through excavation. Wells within areas where waste material or pond sediments were to be excavated were abandoned through over-excavation and removal along with the waste material. Abandonment in accordance with the specification was not required. Well abandonment records are included as Appendix D.

6.5 CONSTRUCTION WATER MANAGEMENT

6.5.1 Erosion Control

A Remedial Action Work Plan (RAWP) completed by Tug Hill in October 2003 (Tug Hill, 2003) and approved by NYSDEC on January 15, 2004, incorporated the requirements of the Stormwater Management and Erosion Control Plan included in the Contract Documents (Parsons, 2003b). The RAWP required the use of erosion controls

to prevent erosion of disturbed areas and to prevent siltation in adjacent wetland areas. Erosion control consisted of silt fencing around the Site perimeter, hay bales around the landfill toe and in drainage ditches, and construction of temporary diversion berms.

Silt fencing was installed around the entire Site perimeter during the clearing and grubbing phase. The silt fence was inspected weekly and following rain events, and repairs were made when needed. Sections of silt fence were removed as construction progressed, and it was no longer needed.

6.5.2 Construction Water Management

A Construction Water Management Plan was completed and included in the construction RAWP. This plan outlined the contractor's method of handling and minimizing the volume of construction water generated during the remedial action.

The ponds were dewatered by pumping prior to sediment excavation. During the initial dewatering, a filter dam was constructed in Pond B to reduce the quantity of sediment in the flow. A filter bag was installed at the pipe outfall, located in the northwest corner of the Site at the northern end of the former Pond A (northernmost pond). Water was then discharged through this outfall, after passing through the filter bag. This process occurred between March 2004 and June 2004.

During discharge of construction water to the outfall, turbidity measurements were recorded every two hours. The discharge requirement for construction water was to have a turbidity less than 100 NTUs. Discharge limits were met throughout the project.

During construction, NYSDEC directed that construction contact water must be managed separately from general runoff. NYSDEC defined construction contact water as runoff or other water that had the potential to come in contact with materials from the Site. To comply with this directive, between March and June 2004, contact water was recycled to the landfill. In June 2004, a temporary water treatment system was mobilized and installed in the northeast corner of the Site to handle contact water. The temporary treatment system consisted of sand filters and granular activated carbon (Appendix H, Submittal No. 60). Water from the wetland sumps was pumped to two modular storage/decanting tanks erected near the southwestern corner of the Skyway property. After settling, decanted water from the tanks was periodically transferred to the treatment system.

Following the initial pond dewatering, sumps were installed with automated pumping systems and level controllers. This system was used to collect and transfer additional water that collected in the ponds. From the sumps, water that was identified as contact water was directed to the treatment system. As excavation was completed within the ponds and other areas of the Site, NYSDEC approved direct discharge of water from those areas to the outfall without treatment.

The temporary settling and treatment system was operated from June 2004 until it was demobilized in December 2004. Following demobilization, contact water was managed through an alternate temporary treatment system consisting of bag filters and granular activated carbon, located in the northwestern corner of the Site.

During the winter of 2004-2005, water was allowed to accumulate in the ponds. Provisions were made to prevent contact water from reaching the pond area during the winter shutdown. Provisions included creating a bermed “bowl area” along the western side of the landfill. The water collecting in the bowl area was subsequently pumped to the water relief trench and through a smaller water treatment plant before being discharged to the Northwest outfall. The second season of pond dewatering did not require water treatment as contact water was not discharged to the ponds. After May 2005, there was no remaining exposed waste in the landfill, and treatment of contact water from the landfill was no longer needed.

6.6 SEDIMENT REMOVAL/STABILIZATION

6.6.1 Sediment Removal

Impacted pond sediment and wetland soils were excavated and consolidated into the Alltft Landfill. The excavation plan in these areas was based on sediment samples and soil borings conducted during the Alltft Landfill and Ramco Steel remedial investigations, and additional sediment sampling conducted as part of the pre-design investigation.

The planned sediment removal volume was based upon removal of all sediments in Ponds A, B, C, and the Ramco Pond to native soils. The subgrade plan in the ponds and wetland areas was developed to preserve the current wetland habitat to the extent practicable, while providing sufficient conveyance of surface water runoff.

Following dewatering of the work area, sediments were excavated to native (soil) materials. Excavation was completed to the elevations shown on Drawings C-2 and C-3. A total of approximately 48,600 cubic yards of soils and sediments were removed. Following excavation, the sediments were stabilized and incorporated under the cap.

During sediment excavation, a 60-inch diameter reinforced concrete pipe was exposed on the western side of the northern ponds. This pipe apparently ran westerly under the railroad embankment. The pipe was filled with the same low-permeability cover soil material used to restore the wetlands (Section 6.11).

6.6.2 Field Changes

The project technical specifications required that excavated sediments be dried or stabilized by mixing with onsite wastefill or lime from the “lime pile” located at 90 Hopkins Street. Upon evaluation, the contractor decided that the characteristics of the offsite lime pile material were not suitable for stabilizing the sediments. In order to achieve the target moisture content (no greater than 23 percent) for placement of material under the cap, a field change was made (Field Change No. 001, Appendix F) permitting the addition of Quick Lime. A total of 2630.97 tons of lime were used for stabilization. Lime use included Cal85, dolomitic Quick Lime fines and 10-mesh high calcium lime. In addition, this field change allowed a visual deflection test to be used to evaluate suitability of the material for placement, rather than a measurement of the moisture content. The visual test consisted of completing three passes with a smooth drum roller with less than three inches of deflection.

A revised wetland subgrade plan was issued in October 2004, and approved by NYSDEC in Field Change No. 007. This revision was necessary due to differing site conditions encountered during the excavation of the pond sediments. A bedrock ridge was exposed during excavation that extended from the proposed southeast toe of the cap trending southeast. This resulted in shallower final excavation depths than anticipated in some areas, particularly the Ramco Pond. Also, because of the fluid nature of the sediments, excavation to greater depths than planned was necessary in other areas, such as Ponds A and B, to reach stable native soils. Additional grading was also performed to provide drainage, smooth out abrupt grade changes and transition to unexcavated areas following material excavation. A clay plug was placed along the entire western and southern limits of the site to control offsite water infiltration into the wetland from the railroad embankment.

The pond areas were inspected by NYSDEC and Parsons Prior to placement of the wetland cover soil. Approvals of all areas for the placement of wetland cover soil are included in Appendix E (Field Approval Forms).

6.7 WASTE CONSOLIDATION

6.7.1 Consolidation

A major component of the remedial action was the excavation and consolidation of materials from the southern part of the Site to the northern cap area. This was located south of the competent underlying clay layer and included material from the Ramco Steel Site. A total of 232,869 cubic yards of material were excavated and consolidated within the footprint of the capped area. Excavation continued until no visual non-native debris, or stained soils were apparent. Field approvals were obtained from NYSDEC prior to final grading (Appendix E).

During the installation of the silt fencing, additional material was identified in two areas along the northern property boundary. The material was identified visually by staining, or a color that was different from the surrounding soils. The material was excavated from both of these areas and consolidated under the cap. The limits of these two additional excavated areas are shown on Drawings C-02 and C-03 in Appendix A.

The first area excavated was located on NYSDOT property near the access road from Tifft Street. The excavation was limited by Tifft Street to the north and the landfill access road to the west. This area was restored to acceptable grades using unclassified fill and topsoil.

The second area excavated was located at the northern end of the wetlands, east of the outfall. The northern extent of this excavation was limited by the need to maintain the stability of the NYSDOT access road. Two analytical samples were collected from the sidewalls of this excavation. One sample consisted of materials that visually appeared to be clean. The second sample was of colored material that could not be excavated, and appeared to continue beneath the road. No VOCs or SVOCs were detected above the Site cleanup objectives in either sample. In the second sample, arsenic, chromium, and mercury were detected above the cleanup objectives (see

summary of results in Table 8.4, with complete results in Appendix G). This area was restored to acceptable grades using unclassified fill and finished with gravel.

6.7.2 Field Changes

Historical fill material was identified during consolidation and construction along the east extent of the Cap area. Field Change No. 003 limited the depth of excavation of waste material along the property boundary near Skyway Auto Parts. In accordance with the criteria established in the Design Report, and following discussions with the NYSDEC, the depth of excavation was limited to that required to achieve the grades necessary for completion of the east-side surface drainage ditch. A low permeability clay liner (18 inches thick) was installed through the ditch in this vicinity to limit the potential for surface water infiltration through any wastes left in place. By limiting the depth of this clay, any impacted groundwater from the Skyway Auto Parts facility would still be collected by the downgradient groundwater collection trench.

6.8 OFF-SITE WASTE CONSOLIDATION

In addition to the consolidation of waste material from the Alltft and Ramco Sites, material from four offsite areas was also consolidated under the Alltft Landfill cap. The approved design and contract documents for the Alltft Site included the consolidation of the material from the J.D. Cousins Site. During remediation, NYSDEC agreed to the additional consolidation of materials from other satellite sites, including the Lehigh Valley Railroad Site, the Tiftt and Hopkins Site, and the Outer Harbor/Radio Tower Area under the Alltft Landfill cap.

6.8.1 J.D. Cousins Site

In January 2003, Honeywell completed a pre-design investigation at the J.D. Cousins Site located at 677 Tiftt Street. According to NYSDEC, the similarity of the J.D. Cousins and Alltft Site material characteristics, and its proximity to the Alltft Site, suggested a common origin. Based on the results of that investigation, which were included in the Remedial Design Report (Parsons, 2003a), Honeywell agreed to remove a limited amount of impacted material from the J.D. Cousins Site and consolidate it under the Alltft Landfill cap. The plans to transport and consolidate the materials within the Alltft Site were approved by NYSDEC in a letter dated June 6, 2003 (NYSDEC, 2003), which approved the May 2003 Remedial Design Documents.

Materials from the J.D. Cousins Site were excavated and transported to the Alltft Site by Tug Hill in 2004. Approximately 895 cubic yards of material were removed, in addition to 12,500 gallons of water. The water was also transported to the Alltft Site. Restoration was completed by backfilling with unclassified fill and topsoil.

6.8.2 Lehigh Valley Railroad Site

Due to the similarity of materials and physical proximity, Honeywell completed a site investigation in July 2004 to determine the suitability of consolidating the impacted material from the nearby Lehigh Valley Railroad (LVRR) Site (NYSDEC Site No. 9-15-071) into the Alltft Site. Based on the results of that investigation, NYSDEC agreed that the LVRR material was suitable for consolidation under the cap at the Alltft Site (LVRR

Investigation Report, Parsons 2004a). The NYSDEC approved the transport of these materials to the Alltft Site in a letter dated August 13, 2004 (NYSDEC, 2004a).

In September and November 2004, a total of 2,450 cubic yards of material were excavated from the LVRR Site, and consolidated at the Alltft Site. The materials were consolidated under the landfill cap in accordance with the May 2003 Alltft design documents.

Details of this removal and the restoration of the LVRR Site can be found in the January 2005 LVRR Waste Removal Report (Parsons, 2005a). The Proposed Remedial Action Plan (February 2006) concluded that no further action is required at the Site. The Record of Decision is currently in progress.

6.8.3 Tift and Hopkins Site

In a letter dated December 1998, NYSDEC stated that the materials found at the Tift and Hopkins Site (NYSDEC No. 9-15-131) likely had the same source as materials identified at the Alltft Landfill (NYSDEC, 1998b).

In September 2004, Honeywell completed a site investigation to determine the suitability of consolidating the impacted material from the Tift and Hopkins Site into the Alltft Site. Based on the results of that investigation, NYSDEC agreed that the material was suitable for consolidation under the cap at the Alltft Site (Tift and Hopkins Site Investigation Report, Parsons, 2004b). The NYSDEC approved the January 2005 Remedial Action Work Plan, which included plans to transport the material to the Alltft Site, in a letter to Parsons dated February 16, 2005 (NYSDEC 2004b).

A total of approximately 33,278 cubic yards of material were excavated and consolidated at the Alltft Site between February and April 2005. The materials were consolidated under the landfill cap in accordance with the Alltft design documents (Parsons, 2003a).

Details of this removal and the restoration of the Tift and Hopkins Site can be found in the Tift and Hopkins Site Remedial Action Report (Parsons, 2005b).

6.8.4 Buffalo Outer Harbor/Radio Tower Area

NYSDEC approved consolidation of material from this site to the nearby Alltft Site, and incorporation under the landfill cap in accordance with the Alltft design documents. (Letter to Clough Harbour & Associates, NYSDEC, 2004c).

A total of approximately 1,680 cubic yards of treated and stabilized material were excavated and consolidated at the Alltft Site between August 31 and September 3, 2004. The materials were consolidated under the landfill cap in accordance with the Alltft design documents (Parsons, 2003a).

Details of this removal and restoration of the Outer Harbor/Radio Tower Area can be found in the November 2004 Outer Harbor/Radio Tower Area Remedial Action Completion Report (Roux Associates, 2004).

6.9 LANDFILL CAP

In accordance with May 2003 design documents, the landfill cap was constructed in accordance with 6 NYCRR Part 360 - Regulations for Solid Waste Management Facilities. The multi-layer cap consists of, from bottom up, a suitable soil subbase layer, a composite geonet gas venting layer, a geomembrane, a composite geonet underdrain, two feet of cover soil and a 6-inch topsoil layer. The final capped area is approximately 22.94 acres. Details of the cap components can be found on Drawing C-10.

6.9.1 Subgrade Preparation

Following final grading of the materials and sediments, the subgrade was rolled and inspected to ensure that the surface was free of angular stones, debris, sharp objects and materials that could compromise the integrity of the liner. Field approvals were completed by Parsons and NYSDEC prior to placement of the subbase layer. Copies of these field approvals are included in Appendix E.

6.9.2 Subbase Layer

The subgrade was covered with up to 6-inches of approved, imported soil. Following placement and grading of the subbase layer, the surface was proof rolled and inspected by NYSDEC and Parsons. Copies of the field approvals for subbase are included in Appendix E.

Although the design documents allowed for materials excavated from the wetland areas to be used as subbase, it was determined during construction that the sediment material could not be adequately manipulated to provide a stable subbase for liner deployment. Consequently, all of the subbase soils were imported from an approved offsite source.

The imported materials used as subbase, cover soil, and topsoil were sampled in accordance with the requirements of the design specifications, and approved by a Parsons quality control representative and the NYSDEC. Copies of these submittals are included in Appendix H.

6.9.3 Gas Venting System

A manifold loop gas venting system combined with a gas venting layer was constructed to collect and vent gas generated from within the landfill. The system uses hybrid active/passive venting using wind driven turbine ventilators to facilitate the conveyance of landfill gas.

Following approval of the subbase layer, a passive gas venting system consisting of collection trenches, piping and a double-sided geonet composite layer was installed. The collection trenches consisted of both solid and perforated six-inch HDPE piping depending on the location. The geonet composite layer consisted of a double-sided geocomposite of HDPE geonet with non-woven polypropylene geotextile, heat-bonded to both sides. Approved materials were provided by Skaps Industries.

QA/QC testing for the geonet composite was completed in accordance with section 02260 and 02422 of the contract documents. Minor changes to the installation requirements were approved through Submittal No. 45 (Appendix H).

The gas venting geocomposite is linked to the active and passive gas vents through gas vent piping. Three active gas vents were installed through the landfill cap. These vents extend approximately four feet above the landfill surface and are fitted with a wind turbine to assist with gas extraction. Five passive gas vents were also installed.

As landfill grades were changed during construction, the location of the gas collection piping was adjusted to avoid conflicts with the underdrain and surface water collection system. In addition, gas vent piping was installed six inches deeper than shown on the design drawings. The final depth of the top of pipe was 24 inches below the geonet gas venting layer (see gas venting pipe detail on Drawing C-12).

Field Change No. 012 was completed to improve the ease of installation of the gas vents. This change eliminated the coupling between the vent pipe and the collection piping, and permitted the vent to be slipped over the corrugated HDPE collection piping.

6.9.4 Geomembrane Layer

Following installation of the gas venting system, the geomembrane layer was installed. The geomembrane layer was constructed using textured 40-mil linear low density polyethylene (LLDPE) manufactured in accordance with Geosynthetic Research Institute (GRI) GM-17. The geomembrane material was provided by Poly Flex, Inc of Grand Prairie, Texas.

During installation and testing of the liner, Parsons had a representative onsite reviewing the testing results and installation methods. The geomembrane installation QA/QC documentation from the manufacturer is provided in Submittal 115 in Appendix H.

6.9.5 Subdrainage Layer

Following installation and acceptance of the geomembrane layer, the subdrainage layer was installed. The subdrainage system includes the geocomposite drainage layer between the geomembrane liner and the cover soil, the collection piping, and the toe drains. The geocomposite layer consists of double-sided HDPE geonet with non-woven polypropylene geotextile, heat-bonded to both sides. Approved materials were provided by Skaps Industries. Minor changes to the installation requirements were approved through Submittal No. 45. The subdrainage system was generally constructed in accordance with the contract documents. Some changes were made to accommodate revised lines and grades, and conflicts with the gas collection system design (see Section 6.9.9). QA/QC documentation for the geocomposite layer, including destructive and non-destructive testing results, can be found in Submittals 42 (transmissivity results), 43 (certification), and 71, 72, and 75 (laboratory and manufacturing quality control results).

6.9.6 Cover Soil Layer

Following installation and acceptance of the subdrainage layer, the cover soil layer was installed. A minimum of 24 inches of approved cover soil was placed over the

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subdrainage layer. The cover soil was graded and compacted to meet the requirements of the approved technical specifications. Confirmation of cap construction was made by observation. Tug Hill placed settlement plates on top of the liner to ensure correct thickness of each lift, and to ensure a 2-foot thickness of cover soil and six inches of topsoil. NYSDEC and Parsons walked the areas and approved the cover soil for placement of topsoil.

6.9.7 Finish Grading, Topsoil, Seeding

Six inches of approved topsoil were placed over the entire cap following the cover soil layer. The surface was then seeded and erosion control was applied. Erosion controls consisted of straw mulch and permanent and temporary erosion control fabrics, depending on slope grade and expected water velocities in given areas. Restoration was also completed in areas outside the limits of the cap, that were disturbed during construction. Primary non-cap restoration areas were northeast and southwest of the cap. The gravel area northeast of the cap, previously used for the construction support zone, was left in place following discussion and approval by the City of Buffalo and concurrence with the NYSDEC. Other areas outside the cap and the limits of the former gravel support zone received six inches of topsoil, and were seeded similarly to the cap.

6.9.8 Surface Drainage

The surface drainage includes the surface water collection/diversion system and down-chutes, and road crossings into the wetlands. The surface drainage system was constructed in accordance with the contract documents, with the changes noted below.

6.9.9 Field Changes

The cap limits and the manner in which the toe of the landfill was changed are documented in Field Change No. 003 (Appendix F). This change included revisions to the lines and grades in the east drainage channel between the Site and Skyway Auto Parts. This change was made to accommodate 18 inches of clay used to line the ditch, and separate it from underlying materials that were not excavated.

Field Change No. 005 made adjustments to the lines and grades to position the north ditch within the Site boundaries. Twelve inches of clay were placed beneath the ditch to seal it from material encountered along the northern boundary.

Field Change No. 010 and Field Change No. 015 revised the down-chutes and drainage outlets and culverts. This change eliminated the gabion baskets and the use of geoweb cellular road crossings included in the design documents.

6.10 GROUNDWATER CONTROL AND RECOVERY SYSTEM

6.10.1 Groundwater Collection Trench

The May 2003 design documents described a groundwater collection trench that would be installed in the surficial aquifer along the western and southern sides of the Site. In accordance with the Groundwater Trigger Plan contained in the Design Report (Parsons, 2003a), activation of the collection system would depend upon post-remedial-

construction monitoring. A plan view and details of the trench as it was constructed are shown on Drawing C-16.

The groundwater collection trench was installed from September 22 through October 15, 2004. An updated version of the Groundwater Trigger Plan (January 2005) was approved by NYSDEC in a letter dated January 31, 2005 (NYSDEC, 2005). Following five rounds of sampling from the groundwater collection trench and background monitoring wells, it was apparent that the concentrations of chlorobenzene exceeded the groundwater quality criterion. Pumping from the groundwater collection trench began on October 13, 2005. Discharge from the groundwater collection trench, as with the water from the groundwater relief trench, is routed to a BSA manhole on Hopkins Street via a lift station in the southeast corner of the Site. Water is discharged without treatment under a BSA permit (Permit No. 04-08-BU098 - Appendix C), which was established in November 2004. Monthly compliance samples are collected from the lift station, and results are submitted to the BSA.

6.10.2 Field Changes to Collection Trench

Several changes were made to the design of the collection trench prior to construction. The changes to the collection trench were approved in a letter from NYSDEC dated September 1, 2004 (NYSDEC, 2004d), and in Field Change No. 009 dated October 27, 2004 (Appendix F). The primary changes to the collection trench included: elimination of the 6-inch diameter horizontal slotted collection piping from the bottom of the collection trench; elimination of the four cleanout manholes and pump station manhole; installation of four pumping points, or sumps, directly in the trench backfill, consisting of 6-inch diameter wire-wound stainless steel well screen and stainless steel casing; and extending the length of the trench.

Electrical and mechanical work to install two pumps in the groundwater collection trench was completed in accordance with the design presented in Field Change No. 013.

6.10.3 Field Change - Groundwater Relief Trench and Force Main

In addition to the changes referenced in Section 6.10.2 above, a shallow groundwater relief trench was added during construction to control seepage emanating from locations along the western toe of the landfill adjacent to the access road. The installation of the shallow groundwater relief trench, parallel to and east of the groundwater collection trench, was approved by NYSDEC in Field Change No. 008, dated November 4, 2004 (Appendix F). The location of the relief trench as it was constructed is shown on Drawing C-16 (Appendix A). The groundwater relief trench was constructed from November 8 to November 11, 2004. During construction, the water extracted from the groundwater relief trench was treated with activated carbon and discharged to the northwest outfall. In July 2005, a decision was made to construct a force main with a permanent connection to the BSA manhole on Hopkins Street, under the BSA permit referenced above. The force main and lift station were constructed outside the southeast corner of the cap to collect water from the groundwater relief trench and the groundwater collection trench. The water collected in the lift station manhole was routed through a force main to the BSA sanitary sewer system, beginning on August 15, 2005.

The force main consists of piping from a lift station to a manhole on Hopkins Street. The force main design, including the manhole connection, lift station, and installation of pumping equipment in the groundwater collection trench, was approved by NYSDEC in Field Change No. 013, dated July 29, 2005. Field Change No. 018 was also implemented to specify the use of pressure test plugs in the force main cleanouts. Water from both the groundwater relief trench and groundwater collection trench are routed through the same pipe system, lift station, and force main, to the BSA sewer system.

This field change also included the addition of two penetrations of the cap for the placement of collection sumps (GWRT S-1 and GWRT S-2).

6.11 WETLAND HABITAT RESTORATION

6.11.1 Restoration

Following sediment excavation and grading, wetland habitat restoration was initiated. Once the subgrade elevations were attained (Drawings C-2 and C-3), and grading was completed, one foot of low permeability wetland cover soil and 0.5 feet of topsoil was placed over the area. The wetland cover soil and the topsoil were “feathered” at the edges to provide a smooth transition to the upland areas. The final grades are shown on Drawings C-6 and C-7 (Appendix A).

The wetland area was re-vegetated with shallow emergent and deep emergent wetland plant species. Shallow emergent (wet meadow) species were seeded, whereas deep emergent zone plants were established with tubers and rhizomes. No planting was conducted in the open water zones. However, cover soil and topsoil were placed throughout these zones.

A woody buffer strip was planted along the western and southern perimeter of the landfill, adjacent to the wetlands and the access road. The woody buffer strip consists of several varieties of moisture tolerant trees and shrubs, typical of similar regional wetland habitats. The area north of the Ramco Pond between the woody buffer strip and the shallow emergent (wet meadow) zone, and outside the landfill limits, was planted with upland zone grasses in accordance with the design. The size of the upland zone area was slightly modified as a result of the changes in the wetland areas.

All plantings were completed by November 2005. In a letter dated March 25, 2005, the USACE was notified of the grade and depth changes, and the resulting changes in the areas of the wetland zones. On November 4, 2005, a representative from the USACE visited the site, and provided verbal approval of the constructed wetlands. Planting lists for the wetlands and woody buffer zones are included as submittals in Appendix H.

6.11.2 Field Changes

As mentioned in Section 6.6.2, due to changed conditions, the final wetland zone areas were modified from the original design by Field Change No. 007. The table below shows a comparison between the wetland zone areas in the original design, and the as-built conditions.

Wetland Type	May 2003 Design (acres)	Restored Conditions (acres)
Shallow Emergent	5.33	6.00
Deep Water Emergent	5.82	4.03
Open Water	1.56	1.37
Total	12.71	11.40

Following wetland planting, protection measures consisting of posts, snow fencing, and rope barriers were implemented to discourage predation by wild fowl. Due to the large distances between posts, the allowable thickness of the rope was reduced to less than 3/8-inch diameter to minimize tension on the posts (Field Change No. 018).

6.12 GROUNDWATER MONITORING WELL INSTALLATION

A total of sixteen piezometers and two groundwater monitoring wells were installed in accordance with Specification 02015 of the Contract Documents, and Field Changes No. 004, No. 009, and, No. 011. Boring logs for both monitoring wells and piezometers are provided in Appendix D.

6.12.1 Monitoring Wells

Two monitoring wells were installed at offsite locations surrounding the site. MW-1 is located on the J.D. Cousins property (667 Tifft Street) and MW-2 is located on South Buffalo Railway property (Drawing C-1). Both monitoring wells were installed using 4.25-inch hollow stem auger and casing (spin and wash or drive and flush) drilling techniques. The wells were screened as noted on Drawing C-13, and as shown on the boring logs (Appendix D). Drilling equipment was decontaminated prior to drilling, between boreholes, and before leaving the site.

Following the completion of drilling, each well was constructed through the auger casing with 2-inch diameter PVC riser and well screen. The annulus around the outside of the well screen was backfilled with a properly sized clean, inert, silica sand that extends from six inches below the bottom of the well screen to 2 feet or 20 percent of the length of the well screen (whichever was greater) above the top of the well screen. A secondary sand pack, composed of fine grained, clean, inert silica sand was installed to a minimum of six inches above the top of the primary sand pack. Both the primary and secondary sand packs were placed using methods that avoid bridging and ensured accurate placement of filter materials. A 2-foot thick bentonite pellet seal was placed above the secondary sand pack and allowed to swell a minimum of 30 minutes. After allowing the bentonite seal to swell, cement/bentonite grout was installed above the bentonite seal to ground surface. The grout was carefully placed by tremmie pipe to

ensure that it was not diluted by formation water and that any water in the annular space was displaced.

Each monitoring well has a vented cap and a 4-inch square steel casing with a hinged locking cap placed over the monitoring well. The protective casing for each well extends at least two feet above the ground surface and is sealed in place with a concrete pad. Each well has been appropriately labeled with permanent markings for easy identification. All installation activities were observed and recorded in a bound field book and/or on a well log form by a Parsons geologist.

6.12.2 Piezometers

A total of sixteen piezometers were installed onsite. PZ-1 thru PZ-3 were installed in the groundwater collection trench, PZ-4 thru PZ-8 were installed between the collection trench and the wetlands, PZ-14 and 16 were installed through the top of the landfill, and PZ-10 thru 13 and 15 are located around the perimeter of the cap (Drawing C-1).

The piezometers were installed using 4.25-inch or 6.25-inch hollow stem augers and casing (spin and wash or drive and flush) drilling techniques. The piezometers were screened as noted on Drawing C-13 and as shown on the boring logs (Appendix D). Drilling equipment was decontaminated prior to drilling, between boreholes, and before leaving the site.

Following the completion of drilling, the piezometers were constructed through the auger casing. Piezometer risers and appropriate length well screens were constructed of either 4-inch stainless steel or 1.5-inch PVC (refer to installation logs for details). The remainder of the installation was consistent with that of MW-1 and MW-2.

All piezometers are appropriately labeled with permanent markings for easy identification. Installation activities were observed and recorded in a bound field book and/or on a well log form by a Parsons geologist.

6.12.3 Field Changes

Field Change No. 004 specified changes to the protective casing and bentonite seal for wells and piezometers. Field Change No. 009 specified the use of 4-inch stainless steel riser and well screen for PZ-1 thru PZ-4, within the groundwater collection trench, and Field Change No. 11 revised the locations for PZ-1 and PZ-4.

6.13 SITE SECURITY AND ACCESS

6.13.1 Fencing and Access Road Construction

To restrict access in and out of the landfill after construction was completed, a 6-foot high chain link fence was installed around the Site perimeter (refer to Drawings C-06 and C-07 in Appendix A for location and Drawing C-13 for details). A 12-foot wide gravel road was constructed to provide access within the fenced area for future operations and maintenance activities at the Site (see drawing C-07 in Appendix A).

6.13.2 Field Changes

In order to comply with the City of Buffalo zoning requirements, the height of the perimeter fence was changed from 8 feet to 6 feet (see Field Change No. 014). Field Change No. 016 was implemented to extend the ends of the chain link fence on the north side westward into the wetlands of Pond A and on the southeast corner into Ramco Pond. This same field change also allowed for the relocation of the access gate from the southern end of the Site at Colgate Street to the northern end at Tifft Street.

The section of access road from the southeast corner of the landfill, southerly along Skyway Auto Parts, and continuing east along the south end of Skyway Auto Parts was eliminated (see Field Change No. 017 for details.) The original design for the access road had an area for a potential treatment plant. Since water was being discharged to the BSA instead of a treatment plant, this section of road was not needed.

Table 6.1
Access Agreements

Property/Address	Property Owner	Access Rights	Expiration Date	Location	Notes
106 Abby Street, 139 Abby Street, 302 Abby Street, Abby Street, and 90 Hopkins Street.	City of Buffalo	Remedial Access Agreement providing general access to implement, monitor and maintain the remedial action.	April 1, 2006	Alltift Site (landfill area)	
180 Hopkins Street	Buzzard Corporation	Access Agreement to install permanent discharge pipe has been executed.	None.	North of and parallel to Niagara LaSalle property boundary.	Recording of agreement is pending.
Germania Street, North of Tiftt Street	City of Buffalo	To complete remedial activities.	February 1, 2007		For Tiftt and Hopkins Remedial Action
CSX/Adrian Realty Property	CSX/Adrian Realty	To complete remedial activities.	10-year initial term, with 3 automatic 5-year renewal periods unless otherwise terminated.	Pond/wetland areas west of landfill.	Execution pending.
NYSDOT Property South of Tiftt Street	State of New York	State Highway Work Permit No. 5-03-0746 to remove contaminated soil and landscape	December 31, 2005	Two areas: northwest corner of Site, and northern	None.

Property/Address	Property Owner	Access Rights	Expiration Date	Location	Notes
and North of Site.		affected areas (seed and stump removal).		boundary near Tift Street.	
667 Tift Street.	Process Welding and Fabrication	Letter agreement for installation, monitoring, maintenance and removal/abandonment of monitoring wells.	None.	East of Skyway property near Tift Street.	One background monitoring well (MW-1) is on the property. Requires routine monitoring.
637 Tift Street	Skyway Auto Parts	Temporary Access and License Agreement for general access to implement the remedial action at the Site.	December 23, 2006	Adjacent to eastern boundary of Site.	
South Buffalo Railway	South Buffalo Railway	Right of Entry for monitoring well installation on Germania Street, east of Skyway Auto Parts.	December 31, 2005		Must be renewed annually. Renewal requires a \$500 fee. Well MW-2 on property. Requires routine monitoring.
South Buffalo Railway	South Buffalo Railway	License Agreement for installation of sewer line that will connect with a point on Hopkins Street.	June 16, 2006	Sewer discharge pipe crosses RR tracks in Germania St. right-of-way near Buzzard/Niagara LaSalle property	Automatic renewal. A \$500 annual fee is due on expiration date.

Property/Address	Property Owner	Access Rights	Expiration Date	Location	Notes
				boundaries.	
South Buffalo Railway/Buffalo Pittsburgh Railroad, Inc.	South Buffalo Railway/Buffalo Pittsburgh Railroad, Inc.	Right of Entry Agreement for general access activities including restoration of the Ramco Pond area, and O&M activities.	December 31, 2005	West of western wetlands/ponds, and south of Ramco Pond.	This agreement, in essence, extends the 2004 agreement.

SECTION 7

COMMUNITY AIR MONITORING PROGRAM/HEALTH AND SAFETY

During the construction of the project, all health and safety monitoring was conducted by GZA GeoEnvironmental of New York (GZA) under subcontract to Tug Hill. GZA provided a full time Site Safety and Health Officer (SSHO) who was responsible for worker safety, monitoring air quality, and maintaining records related to safety, environmental conditions and air monitoring.

An air monitoring program was conducted as outlined in the Site Specific Health and Safety Plan which was developed in accordance with Specification 01620 Part H-Exposure Monitoring/Air Sampling. Baseline air monitoring was completed over three days during mobilization to the Site. The baseline data was used comparatively with the daily air monitoring data to identify increases in air emissions resulting from construction activities.

Air monitoring stations were established around the perimeter of the site in both upwind and downwind locations. Monitoring was conducted for fugitive dust emissions and total volatile organic compounds (VOCs) with direct reading instruments. A photoionization detector (MiniRAE 2000) was used to screen for organic compounds and MIE Personal DataRam PDR-000 real time particulate monitors were used to measure dust concentrations.

Site perimeter monitoring was performed by the SSHO in accordance with Section 8 of the Site Specific Health and Safety Plan (GZA, 2003b). The data were reviewed against the action criteria by a Certified Industrial Hygienist. The only exceedance of action limits occurred during stabilization of sediment using lime, in which dust levels were above the limits. Corrective action for this single event included temporarily shutting down the operation, covering the lime, and waiting for winds to subside before continuing the process. A copy of the air monitoring data generated during this project has been included as Appendix J.

SECTION 8 CHEMICAL ANALYTICAL DATA

During the course of the remedial construction at the landfill, soil, groundwater, and solid samples were collected for chemical analysis. The dates and purpose for each sample collected are summarized in Table 8.1 below. Tables 8.2 through 8.4 provide summary results for selected samples. Full analytical results for each sample are contained in Appendix G. The groundwater collection trench was sampled on five occasions. The analytical results for each sampling event were reported to NYSDEC under separate cover. Details on the groundwater collection trench construction and sampling are included in Section 6.10.1.

**Table 8.1
Chronological Sample Summary**

Sample Event	Sample Purpose	Sample Parameters	Sample Date	Report Date	Laboratory Report ID
Dewatering sump sample (BSA-1, BSA-2)	To monitor and observe the settlement of suspended solids in groundwater.	¹ VOCs, ¹ SVOCs, PCBs, Cn, P, TSS, Metals, TPH, pH	3/25/2004	3/31/2004	A04-2598
Dewatering sump sample	To monitor and observe the settlement of suspended solids in groundwater.	Filtered Hg, Hg, TSS, Filtered TSS	4/1/2004	4/8/2004	A04-2860/A04-2863
Dewatering sump sample (BSA-3)	To monitor and observe the settlement of suspended solids in groundwater.	¹ VOCs, ¹ SVOCs, PCBs, Cn, P, TSS, Metals, TPH, pH	4/1/2004	4/8/2004	A04-2860/A04-2863
Dewatering sump sample (BSA-2A)	Collected from southern sumps in design for treatment/filtration system for THC/Samco.	Total Hg, Soluble Hg	4/7/2004	4/12/2004	A04-3007
White solids from Ramco	NYSDEC directed, unknown material encountered during sediment excavation. Material determined to be aged lime sludge.	Metals	5/28/2004	6/4/2004	A04-5102
Solids samples	NYSDEC directed, split samples with NYSDEC. Samples were collected from the western banks of Pond A, B, and Ramco.	Metals, PAHs, PCBs	9/22/2004	9/29/2004	A04-9145

Chronological Sample Summary (cont'd)

Sample Event	Sample Purpose	Sample Parameters	Sample Date	Report Date	Laboratory Report ID
Groundwater Collection Trench Solids sample	To obtain analytical data for red/brown staining that was observed at the surface of the native material with an analine odor. (NYSDEC split sample also collected).	TCL VOCs, TCL SVOCs	9/23/2004	9/29/2004	A04-9217
BSA	To evaluate the potential for groundwater discharge to BSA	¹ VOCs, ¹ SVOCs, PCBs, Cn, P, TSS, Metals, TPH, pH	11/9/2004	11/15/2004	A04-B067
BSA	To evaluate the potential for groundwater discharge to BSA	¹ VOCs, ¹ SVOCs, PCBs, Cn, P, TSS, Metals, TPH, pH	12/4/2004	12/30/2004	A04-C437
BSA	To evaluate the potential for groundwater discharge to BSA	¹ VOCs, ¹ SVOCs, PCBs, Cn, P, TSS, Metals, TPH, pH	1/5/2005	1/18/2005	A05-0071
BSA	To evaluate the potential for groundwater discharge to BSA	¹ VOCs, ¹ SVOCs, PCBs, Cn, P, TSS, Metals, TPH, pH	2/5/2005	2/28/2005	A05-1498
NYS DOT Soil sampling	NYSDEC directed, representative sample of red/purple "sludge" in excavation.	TCL VOCs, TCL SVOCs, TAL Metals	4/21/2005	5/11/2005	A05-3936
Bowl Water	To obtain analytical content of surface water in impoundment at top of landfill the water to determine how the discharge should be handled.	VOCs, SVOCs, PEST, PCBs, Metals	5/9/2005	5/22/2005	A05-4672
BSA -monthly	Monthly discharge compliance.	¹ VOCs, ¹ SVOCs, PCBs, Cn, P, TSS, Metals, TPH, pH	9/29/2005	10/18/05	A05-A748

¹selected list; VOCs = volatile organic compounds; SVOCs = semivolatile organic compounds; PEST = pesticides; PCBs = polychlorinated biphenyls; Cn = cyanide, P = phosphorous; TSS = total suspended solids; TPH = total petroleum hydrocarbons; Hg = mercury, TCL = target compound list; TAL = target analyte list PAHs = polycyclic aromatic hydrocarbons

Table 8.2
Groundwater Collection Trench Solids Analytical Summary
(Lab Report No. A04-9217)

Sample ID		Alltift Trench Sample # 1	Alltift Trench Sample # 2
Lab Sample ID		A4921701	A4921702
Sample Date		9/23/2004	9/23/2004
Compound	Units		
VOLATILES (Method 8260)			
Chlorobenzene	ug/kg	3100	2 J
Total Xylenes	ug/kg	550 J	8 B
SEMIVOLATILES (Method 8270)			
Acenaphthene	ug/kg	600	ND
Bis(2-ethylhexyl) phthalate	ug/kg	190 J	ND
4-Chloroaniline	ug/kg	170 J	ND
1,2-Dichlorobenzene	ug/kg	200000 D	ND
1,4-Dichlorobenzene	ug/kg	30000 D	ND
2,4-Dichlorophenol	ug/kg	240 J	ND
Nitrobenzene	ug/kg	1600	ND
1,2,4-Trichlorobenzene	ug/kg	8000 E	ND

Table 8.3
Solids Samples Analytical Summary
(Lab Report No. A04-9145)

Sample ID		1	2	3	4	5	6
Lab Sample ID		A4914501	A4914502	A4914503	A4914504	A4914505	A4914506
Sample Date		9/22/2004	9/22/2004	9/22/2004	9/22/2004	9/22/2004	9/22/2004
Compound	Units						
PAHs (Method 8270)							
Benzo(a)anthracene	ug/kg	ND	ND	ND	4600 J	ND	ND
Benzo(a)pyrene	ug/kg	ND	ND	ND	3600 J	ND	ND
Chrysene	ug/kg	ND	ND	ND	8700	ND	250 J
Fluorathene	ug/kg	ND	ND	ND	ND	ND	250 J
Phenanthrene	ug/kg	ND	ND	ND	ND	ND	200 J
Pyrene	ug/kg	ND	ND	ND	12000	ND	300 J
RCRA METALS							
Arsenic - Total	mg/kg	53.3	20.9	4.3	47.1	60.3	43
Barium - Total	mg/kg	370	61.6	116	167	121	92.6
Cadmium - Total	mg/kg	13	ND	ND	5.5	ND	ND
Chromium - Total	mg/kg	25.6	61.9	23.4	118	48.6	23.6
Lead - Total	mg/kg	4760	74.9	17.4	310	146	158
Mercury - Total	mg/kg	0.047	0.14	0.076	0.49	0.13	0.095
Silver - Total	mg/kg	4.4	ND	ND	1.3	0.96	1.1

Table 8.4
NYSDOT Soil Sampling Analytical Summary
(Lab Report No. A05-3936)

Sample ID		DOT 2A	DOT 2B
Lab Sample ID		A5393601	A5393602
Sample Date		4/21/2005	4/21/2005
Compound	Units		
VOLATILES (Method 8260)			
Acetone	ug/kg	ND	100
2-Butanone	ug/kg	ND	25 J
Tetrachloroethene	ug/kg	3 BJ	3 BJ
RCRA METALS			
Aluminum - Total	mg/kg	35200	5590
Arsenic - Total	mg/kg	24.4	ND
Barium - Total	mg/kg	213	24.8
Beryllium - Total	mg/kg	0.74	0.26
Cadmium - Total	mg/kg	1.3	ND
Calcium - Total	mg/kg	61600	666
Chromium - Total	mg/kg	13500	7
Iron - Total	mg/kg	30700	6600
Cobalt - Total	mg/kg	6	2.9
Copper - Total	mg/kg	207	6.8
Lead - Total	mg/kg	260	5.1
Magnesium - Total	mg/kg	7080	923
Manganese - Total	mg/kg	633	52.8
Mercury - Total	mg/kg	0.24	ND
Nickel - Total	mg/kg	31.4	9.4
Potassium - Total	mg/kg	4320	373
Sodium - Total	mg/kg	6290	494
Vanadium - Total	mg/kg	87.7	9.4
Zinc - Total	mg/kg	530	22.4

SECTION 9

REFERENCES

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NYSDEC, 2004a. August 13, 2004 letter to Honeywell, Lehigh Valley Railroad Site No. 9-15-071, Buffalo (c), Erie County.

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NYSDEC, 2005. January 31, 2005 letter to Parsons (approval of the revised January 2005 Groundwater Trigger Plan), Alltift Landfill Site and Ramco Steel Sites (9-15-054/9-15-046B)

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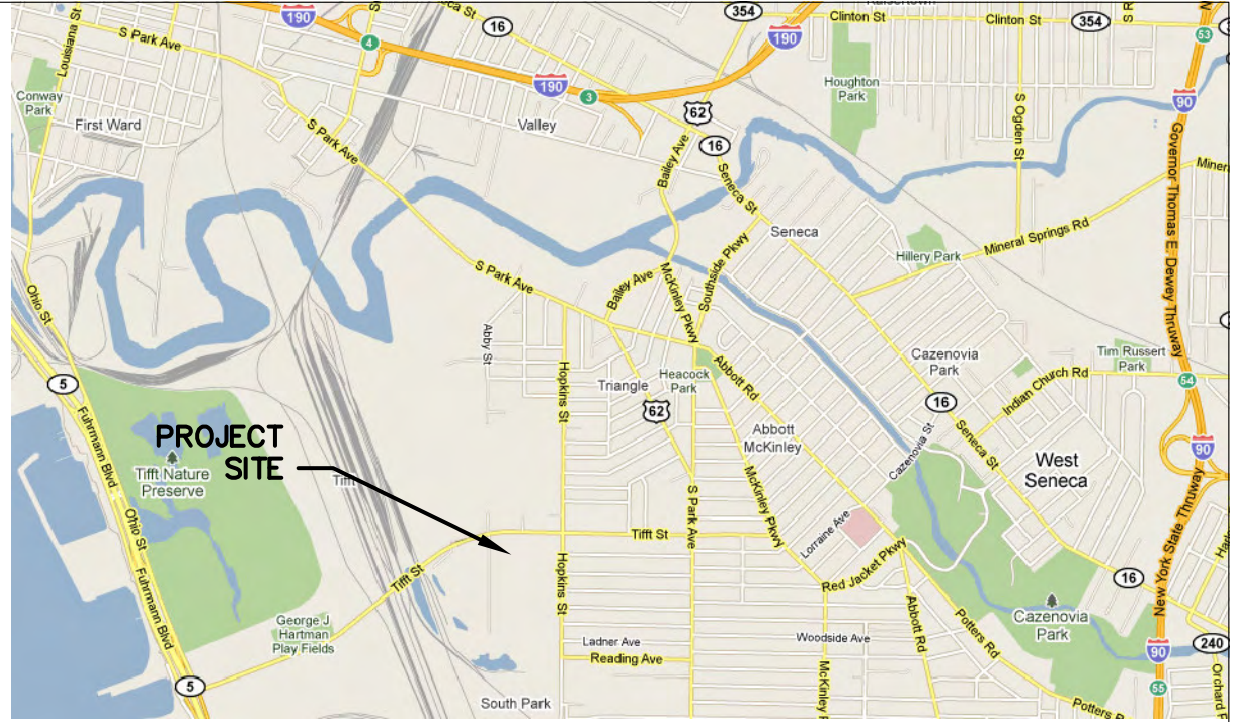
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LOCATION MAP
not to scale

GENERAL NOTES

1. THE SUBJECT PROPERTY IS LOCATED IN ZONE X (AREA OF MINIMAL FLOODING; PER FIRM (FLOOD INSURANCE RATE MAP), COMMUNITY PANEL NO. 36029 C 0327 G, EFFECTIVE DATE SEPTEMBER 26, 2008 AND 36029 C 0329 G PANEL NOT PRINTED (NO SPECIAL FLOOD AREAS).
2. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED THOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF EXCAVATION.

PARCEL 1 ADRIAN REALTY CO.

ABSTRACT BY STEWART TITLE NO. 546772, DATED 5/18/10

RECORD DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND situate in the City of Buffalo, County of Erie and State of New York, being part of Lot No. 17 of the Ogen Gore Tract, so-called, bounded and described as follows:
BEGINNING at a point in the center line of Tift Street where said line is intersected by the easterly line of lands of the South Buffalo Railway Company, thence north 69°12'00" east along the center line of said Tift Street 300 feet; thence south 22°40' east, 2152.7 feet to lands of the South Buffalo Railway Company, thence along the land of said South Buffalo Railway Company the following courses and distances: northerly curving to the right with a radius of 565.686 feet a distance of 113.25 feet, north 49°15'30" west, 345.08 feet, northerly curving to the left with a radius of 565.686 feet a distance of 282.41 feet; north 20°40' west, 1482.3 feet to a point; thence southeasterly along the easterly line of said South Buffalo Railway Company by deed recorded in the Erie County Clerk's Office in Liber 1911 of Deeds at page 445.
FURTHER EXCEPTING THEREFROM that part conveyed to City of Buffalo by deed recorded in the Erie County Clerk's Office in Liber 10906 of Deeds at page 2926.

AS SURVEYED DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND situate in the City of Buffalo, County of Erie and State of New York, being part of Lot No. 17 of the Ogen Gore Tract, bounded and described as follows:
BEGINNING at a point in the westerly line of the proposed Abby Street hereinafter described where the same would be intersected by the southerly line of lands described in Parcel No. 1 above; thence southerly along the westerly line of the proposed Abby Street for a distance of 1,712.16 feet to the northerly line of lands conveyed to the South Buffalo Railway Company by deed recorded in the Erie County Clerk's Office in Liber 1175 of Deeds at page 470; thence northerly along a curve with a radius of 565.686 feet for a distance of 129.35 feet to the easterly line of lands conveyed to William H. Donner by deed recorded in the Erie County Clerk's Office in Liber 1393 of Deeds at page 424; thence northerly along the easterly line of the lands so conveyed to said William H. Donner for a distance of 1,509.17 feet to the southerly line of the lands described in parcel No. 1; thence northerly parallel with the center line of Tift Street and along the southerly line of lands described in Parcel No. 1 for a distance of 717.15 feet to the westerly line of the proposed Abby Street at the place of beginning, containing 14.71 acres marked Block "C" on a certain map filed in the Erie County Clerk's Office under Cover No. 1006.

PARCEL 3 HOPKINS TIFT REALTY CORP.

ABSTRACT BY STEWART TITLE NO. 54674, DATED 5/18/10

RECORD DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND situate in the City of Buffalo, County of Erie and State of New York, being part of Lot No. 45 of the Buffalo Creek Indian Reservation and part of Lot No. 17 of the Ogen Gore Tract, so-called, as shown on a certain survey map made for Howard & Randall by George C. Diehl, Civil Engineer, and filed in the Erie County Clerk's Office under Cover No. 1006 of Maps, being more particularly described as follows:
BEGINNING at the point of intersection of the easterly line of Abby Street with the northerly line of Colgate Avenue (private street); thence northerly along the easterly line of Abby Street, 600 feet; thence easterly at right angles to said easterly line of Abby Street, 582.25 feet more or less to the westerly line of lands conveyed to the South Buffalo Railway Company by deed recorded in the Erie County Clerk's Office in Liber 4019 of Deeds at page 541, November 15, 1946; thence southerly along said westerly line of lands so conveyed 340 feet more or less, to an angle point; thence southeasterly, bounding on said lands 480.73 feet to the northerly line of Colgate Avenue, and thence westerly along the said northerly line of Colgate Avenue, 174.36 feet more or less to the point or place of beginning.

AS SURVEYED DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND situate in the City of Buffalo, County of Erie and State of New York, bounded and described as follows:
BEGINNING at a point in the center line of Tift Street where the same would be intersected by the extension southerly of the center line of Abby Street as the same is now laid out north of Tift Street; thence southerly and along the said center line of Tift Street for a distance of 35.32 feet to a point; thence southerly and parallel with Hopkins Street for a distance of 672.31 feet to an angle point; thence continuing southerly and parallel with Hopkins Street for a distance of 1,735.57 feet to the northerly line of lands conveyed to the South Buffalo Railway Company by deed recorded in the Erie County Clerk's Office in Liber 1175 of Deeds at page 470; thence southeasterly on a curve to the left with a radius of 572.97 feet and a chord bearing S 67°17'37" E, 135.05 feet to the west line of Abby Street; thence N 00°47'40" E along the west line of Abby Street, 1733.04 feet to an angle point; thence N 00°34'00" E along the west line of Abby Street, 636.99 feet to the Point or Place of Beginning.

PARCEL 2 CITY OF BUFFALO — PERFECTING TITLE

ABSTRACT BY STEWART TITLE NO. 546773, DATED 5/18/10

RECORD DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND situate in the City of Buffalo, County of Erie and State of New York, bounded and described as follows:
BEGINNING at a point in the center line of Tift Street where the same would be intersected by an extension southerly of the westerly line of Abby Street as the same is now laid out north of Tift Street; thence southerly and along the center line of Tift Street for a distance of 967.57 feet to the easterly line of lands conveyed to William H. Donner by deed recorded in the Erie County Clerk's Office in Liber 1393 of Deeds at page 424; thence southerly and along the said easterly line of lands so conveyed to William H. Donner, by said deed, for a distance of 650 feet to a point; thence northerly and parallel with the center line of Tift Street for a distance of 717.15 feet to the westerly line of the proposed Abby Street hereinafter described; thence northerly and along the said westerly line of proposed Abby Street for a distance of 23.41 feet to an angle point; thence continuing northerly and along the westerly line of the proposed Abby Street for a distance of 672.31 feet to the center line of Tift Street and at the place of beginning, containing 11.84 acres exclusive of the lands within the lines of Tift Street marked, Block "F" on a certain map filed in the Erie County Clerk's Office under Cover No. 1006.

AS SURVEYED DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND situate in the City of Buffalo, County of Erie and State of New York, being part of Lot Nos. 17 and 18 of the Ogen Gore Tract and as shown on a map filed in the Erie County Clerk's Office under Cover No. 1006 of being Block E and part of Block F, bounded and described as follows:
BEGINNING at a point in the south line of Tift Street as originally laid out at its intersection with the west line of Abby Street as conveyed to the City of Buffalo by deed recorded in the Erie County Clerk's Office in Liber 1593 of Deeds at page 96; thence S 69°41'20" W along the south line of Tift Street, 105.24 feet to the easterly terminus of Parcel No. 15 of Map No. 3 acquired by the People of the State of New York by Notice of Grade Crossing Elimination recorded in the Erie County Clerk's Office in Liber 2559 of Deeds at page 201; thence along the south line of said Parcel No. 15, also being the present south line of Tift Street the following courses and distances:
(1) S 46°53'56" W, 59.57 feet to a point; (2) S 69°27'15" W, 59.21 feet to a point of curve; (3) along a curve to the left having a radius of 1552.01 feet, 596.73 feet to a point of tangency; (4) S 47°39'12" W, 128.68 feet to the east line of lands conveyed to William H. Donner by deed recorded in the Erie County Clerk's Office in Liber 1393 of Deeds at page 424; thence S 20°32'29" E along the said east line of lands so conveyed to William H. Donner, 1916.75 feet to the north line of lands conveyed to the South Buffalo Railroad Company by deed recorded in the Erie County Clerk's Office in Liber 1175 of Deeds at page 470; thence southeasterly on a curve to the left with a radius of 572.97 feet and a chord bearing S 67°17'37" E, 135.05 feet to the west line of Abby Street; thence N 00°47'40" E along the west line of Abby Street, 1733.04 feet to an angle point; thence N 00°34'00" E along the west line of Abby Street, 636.99 feet to the Point or Place of Beginning.

PARCEL 4 ABBY STREET

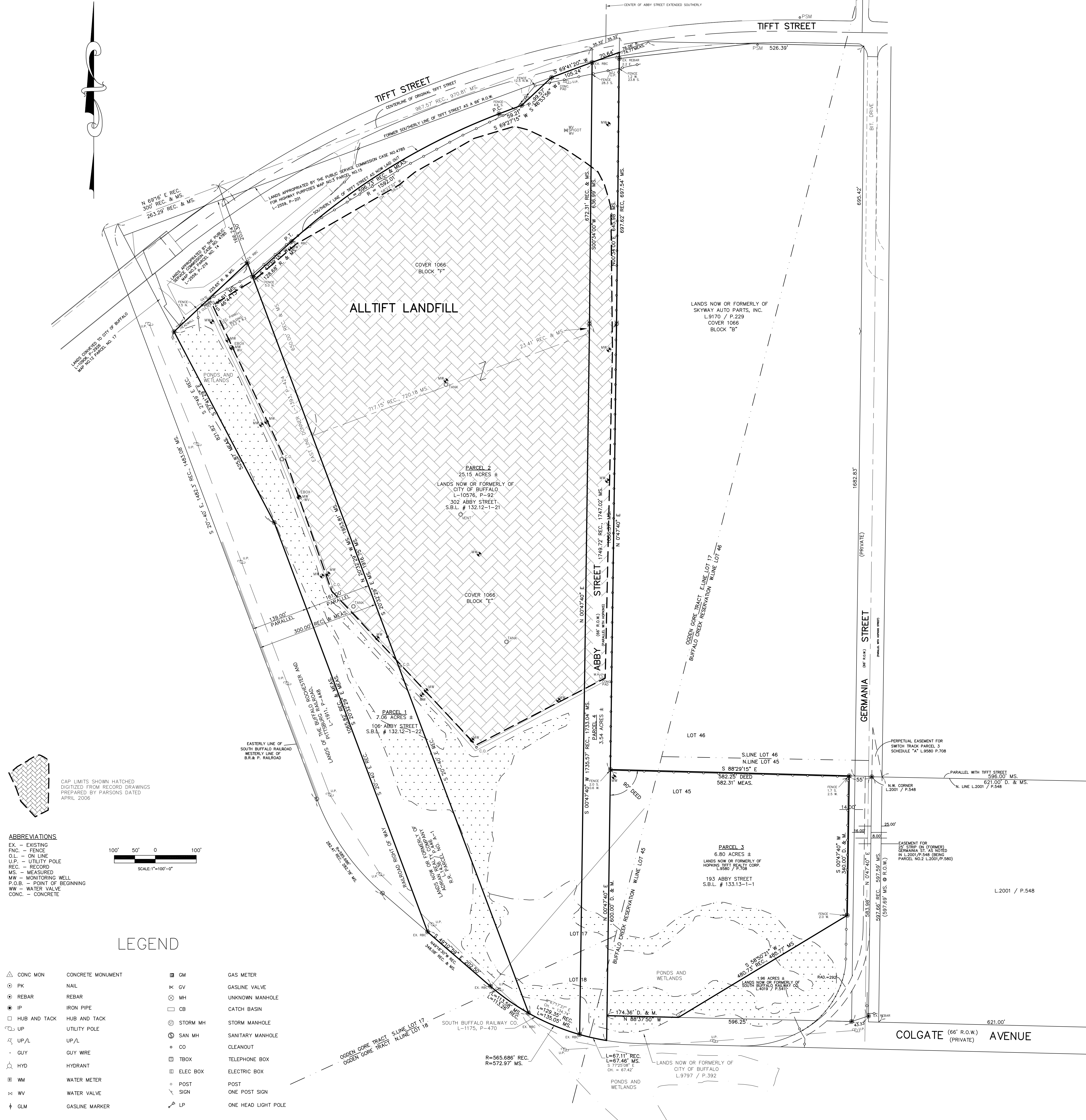
ABSTRACT BY STEWART TITLE NO. 546775, DATED 5/18/10

RECORD DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND situate in the City of Buffalo, County of Erie and State of New York, bounded and described as follows:
BEGINNING at a point in the center line of Tift Street where the same would be intersected by the extension southerly of the center line of Abby Street as the same is now laid out north of Tift Street; thence southerly and along the said center line of Tift Street for a distance of 35.32 feet to a point; thence southerly and parallel with Hopkins Street for a distance of 672.31 feet to an angle point; thence continuing southerly and parallel with Hopkins Street for a distance of 1,735.57 feet to the northerly line of lands conveyed to the South Buffalo Railway Company by deed recorded in the Erie County Clerk's Office in Liber 1175 of Deeds at page 470; thence southeasterly on a curve to the left with a radius of 572.97 feet and a chord bearing S 67°17'37" E, 135.05 feet to the west line of Abby Street; thence N 00°47'40" E along the west line of Abby Street, 1733.04 feet to an angle point; thence N 00°34'00" E along the west line of Abby Street, 636.99 feet to the Point or Place of Beginning.

AS SURVEYED DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND situate in the City of Buffalo, County of Erie and State of New York, bounded and described as follows:
BEGINNING at a point in the center line of Tift Street where the same would be intersected by the extension southerly of the center line of Abby Street as the same is now laid out north of Tift Street; thence southerly and along the said center line of Tift Street, 35.32 feet to a point; thence S 00°34'00" W and parallel with Hopkins Street, 672.31 feet to an angle point; thence S 00°47'40" W and parallel with Hopkins Street, 1,733.04 feet to the north line of lands conveyed to the South Buffalo Railway Company by deed recorded in the Erie County Clerk's Office in Liber 1175 of Deeds at page 470; thence southeasterly on a curve to the left with a radius of 572.97 feet and a chord bearing S 77°25'08" E, 67.46 feet to a point; thence N 00°47'40" E and parallel with Hopkins Street, 1,747.02 feet to an angle point; thence N 00°34'00" E and parallel with Hopkins Street, 637.54 feet to the center line of Tift Street; thence southerly and along the center line of Tift Street, 35.32 feet to the Point or Place of Beginning.



ABBREVIATIONS

EX - EXISTING	CONC MON - CONCRETE MONUMENT	GM - GAS METER
FNC - FENCE	NAIL - NAIL	GV - GASLINE VALVE
OL - ON LINE	REBAR - REBAR	MH - UNKNOWN MANHOLE
UP - UTILITY POLE	IP - IRON PIPE	CB - CATCH BASIN
REC - RECORD	HUB AND TACK - HUB AND TACK	SMH - STORM MANHOLE
MC - MEASURED	UP/L - UTILITY POLE	SMH - STORM MANHOLE
MW - MONITORING WELL	GUY - GUY WIRE	CO - CLEANOUT
P.O.B. - POINT OF BEGINNING	HYD - HYDRANT	TBOX - TELEPHONE BOX
WW - WATER VALVE	WM - WATER METER	EBX - ELECTRIC BOX
CONC. - CONCRETE	WV - WATER VALVE	POST - POST
	GLM - GASLINE MARKER	ONE POST SIGN
		ONE HEAD LIGHT POLE

LEGEND

PART OF L. 5 T. 10 R. 7	
PART OF LOTS 17 & 18 OF THE OGEN GORE TRACT	
CITY OF BUFFALO, COUNTY OF ERIE, STATE OF NEW YORK	
ALLTIFT LANDFILL	
SITE CODE 9-15-054	
DATE: 6/23/10	
JOB: 2010.0229.00	
REVISION: LANDFILL CAP PLOTTED	
DRAWN BY: WNW	
CHECKED BY: DRH	
JOB NO.: 2010.0229.00	
FIELD/OFFICE DATE: 6/25/10	
BOOK: 366	
PAGE: 105	
MAP: 56055-2010	



County Clerk's Recording Page

Return to:

FRONTIER ABSTRACT & RESEARCH
SERVICES
30 W BROAD ST
ROCHESTER, NY 14814

Book Type: D Book: 11219 Page: 1336

Page Count: 6
Doc Type: NT FILING
Rec Date: 03/12/2012
Rec Tim: 10:00:13 AM
Control #: 2012058602
UserID: Diane
Receipt#: 12038669
Document Sequence Number

Party 1:

NEW YORK STATE DEPT OF
ENVIRONMENTAL CONSERVATION

Party 2:

Consideration Amount:

Recording Fees:

Fee 1	\$50.00
Fee 2	\$1.00
COE STATE \$14.25 GEN	\$14.25
COE STATE \$4.75 RM	\$4.75

BASIC	\$0.00
SONYMA	\$0.00
ADDL	\$0.00
NFTA MT	\$0.00
TRANSFER	\$0.00
NFTA TT	\$0.00

Total: \$70.00

STATE OF NEW YORK
ERIE COUNTY CLERK'S OFFICE

WARNING - THIS SHEET CONSTITUTES THE CLERK'S ENDORSEMENT REQUIRED
BY SECTION 319&316-a (5) OF THE REAL PROPERTY LAW OF THE STATE OF NEW
YORK. DO NOT DETACH. THIS IS NOT A BILL.

Christopher L. Jacobs
COUNTY CLERK

ENVIRONMENTAL NOTICE

THIS ENVIRONMENTAL NOTICE is made the 22 day of November 2011, by the New York State Department of Environmental Conservation (Department), having an office for the transaction of business at 625 Broadway, Albany, New York 12233

WHEREAS, that parcel of real property located at 302 Abby Street in the City of Buffalo, County of Erie, State of New York, which is part of lands conveyed to the City of Buffalo by Referee's Deed dated December 9, 1992 and recorded in the Erie County Clerk's Office on December 18, 1992 in Book 10576 of Deeds at Page 92, Tax Map Number 132.12-1-21, and that parcel of real property identified as Abby Street, both parcels being more particularly described as "Parcels 2 and 4" on the survey attached to this Notice and made a part hereof and hereinafter referred to as "the Property", are the subject of a remedial program performed by the Department; and

WHEREAS, the Property is part of an inactive hazardous waste disposal site known as the Alltft Landfill Site (the "Site") which is listed in the Registry of Inactive Hazardous Waste Disposal Sites in New York State as Site Number 915054; and

WHEREAS, the Department approved a cleanup to address contamination disposed at the Property and such cleanup was conditioned upon certain limitations.

NOW, THEREFORE, the Department provides notice that:

FIRST, the part of lands subject to this Environmental Notice is as shown on a map attached to this Notice as Appendix "A" and made a part hereof.

SECOND, unless prior written approval by the Department or, if the Department shall no longer exist, any New York State agency or agencies subsequently created to protect the environment of the State and the health of the State's citizens, hereinafter referred to as "the Relevant Agency," is first obtained, where contamination remains at the Property subject to the provisions of the Operations, Maintenance, and Monitoring Manual (OM&M Manual), March 2006, and the Construction Certification Report ("CCR"), April 2006, there shall be no disturbance or excavation of the Property which threatens the integrity of the engineering controls or which results or may result in a significantly increased threat of harm or damage at any site as a result of exposure to soils. The OM&M Manual and CCR are available from the Department. A violation of this provision is a violation of 6 NYCRR 375-1.1(b)(2).

THIRD, no person shall disturb, remove, or otherwise interfere with the installation, use, operation, and maintenance of engineering controls required for the Remedy, including but not limited to those engineering controls described in the OM&M Manual and the CCR unless in each instance they first obtain a written waiver of such prohibition from the Department or Relevant Agency.

70H-5 - 58602

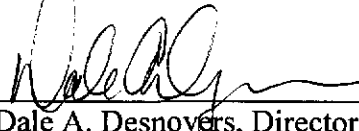
Site Name: Alltiff Landfill
Site No.: 915054
302 Abby Street, Buffalo, New York
County of Erie
Tax Map: 132.12-1-21

FOURTH, the remedy was designed to be protective for commercial/industrial use. Therefore, any use for purposes other than commercial/industrial use without the express written waiver of such prohibition by the Relevant Agency may result in a significantly increased threat of harm or damage at any site.

FIFTH, the no person shall use the groundwater underlying the Property without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless the user first obtains permission to do so from the Department or Relevant Agency. Use of the groundwater without appropriate treatment may result in a significantly increased threat of harm or damage at any site.

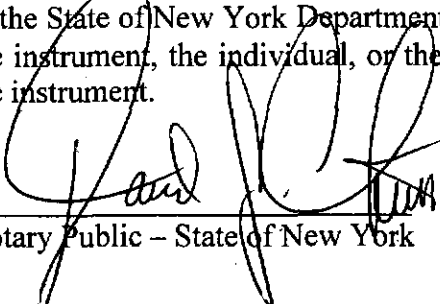
SIXTH, it is a violation of 6 NYCRR 375-1.11(b) to use the Property in a manner inconsistent with this environmental notice.

IN WITNESS WHEREOF, the undersigned has executed this instrument the day written below.

By: 
Dale A. Desnoyers, Director
Division of Remediation

STATE OF NEW YORK) ss:
COUNTY OF ALBANY)

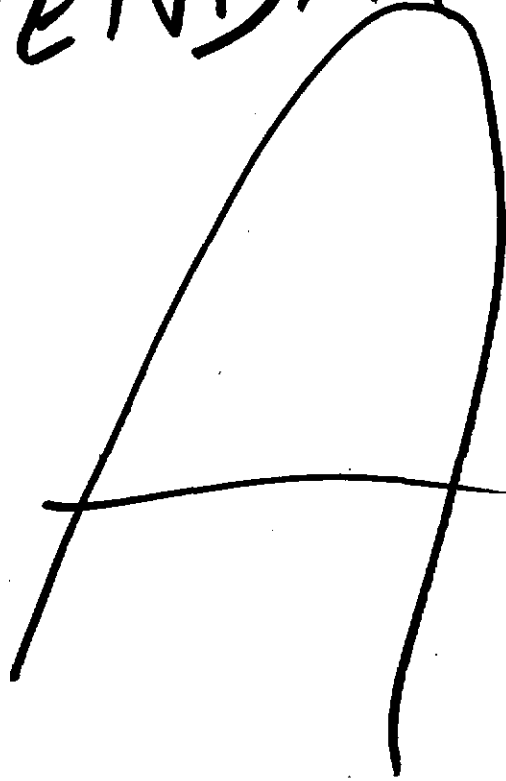
On the nd 22 day of November, in the year 2011, before me, the undersigned, personally appeared Dale Desnoyers, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

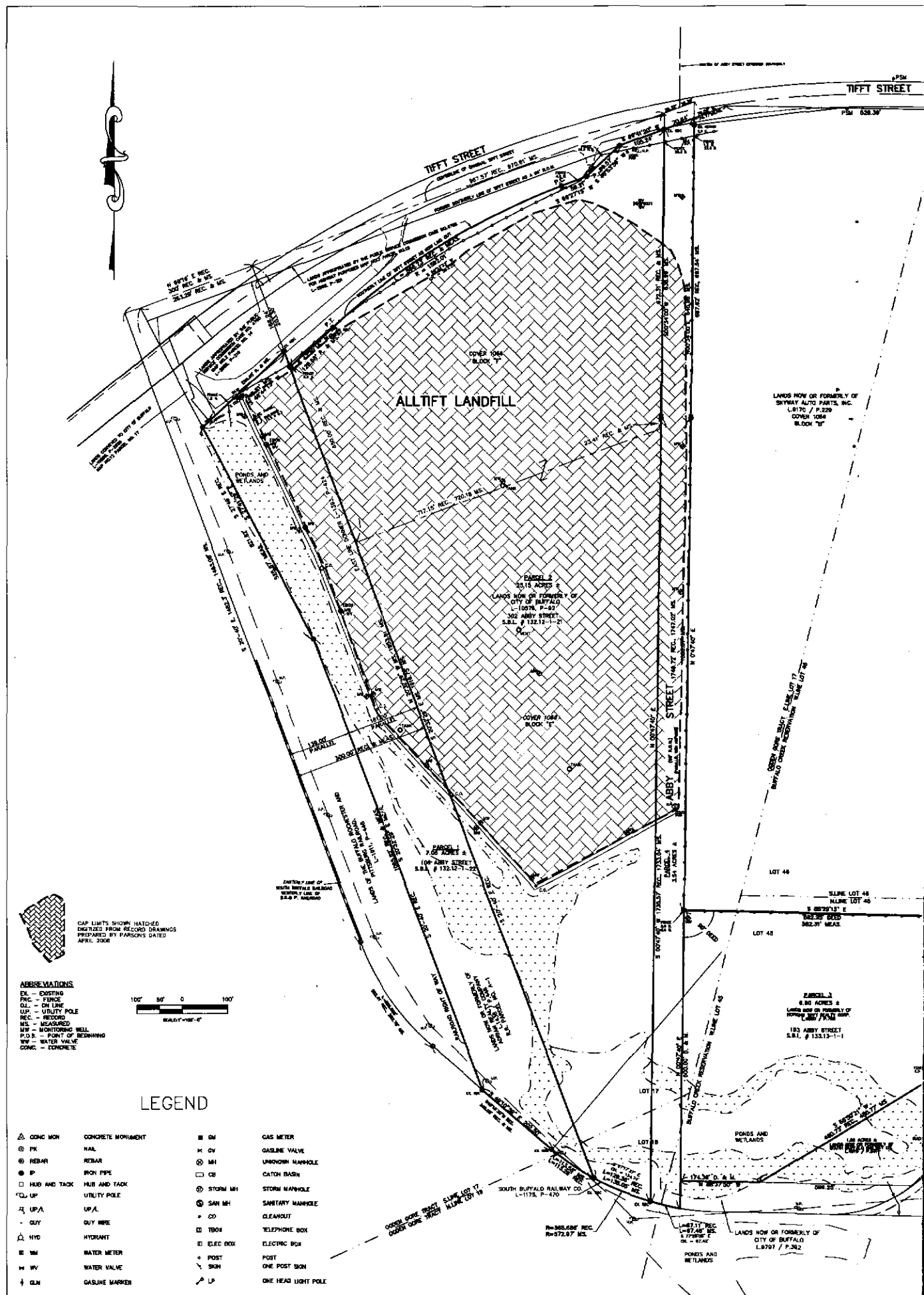

Notary Public - State of New York

David J. Chiusano
Notary Public, State of New York
No. 01CH5032146
Qualified in Schenectady County
Commission Expires August 22, 2014

APPENDIX A

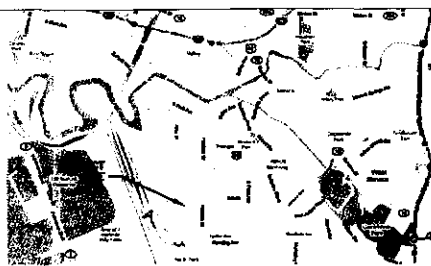
APPENDIX





1. THE SUBJECT PROPERTY IS LOCATED IN ZONE X (AREA OF MINIMAL FLOODING PER FIRM (FLOOD INSURANCE RATE MAP), COMMUNITY PANEL NO. 38029 C 0327 06, EFFECTIVE DATE SEPTEMBER 28, 2008) AND 38029 C 0329 C PANEL, NOT PROVIDED (NO SPECIAL FLOOD AREAS).

2. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAINAGES. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN CORRELATE ALL SUCH UTILITIES IN THE AREA. EITHER BEFORE OR AFTER AWARD. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED THOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. THE CONTRACTOR SHALL CONFIRM



LOCATION MAP
not to scale

PARCEL 1 ADRIAN REALTY CO.
ABSTRACT BY STEWART TITLE No. 548772, DATED 5/18/70

[illegible]

AS SURVEYED DESCRIPTION

[illegible]

PARCEL 3 HOPKINS TRFT REALTY CORP.
ABSTRACT BY STEWART TIDE NO. 848714 DATED 5/28/01

[illegible]

AS SURVEYED DESCRIPTION

[illegible]

PARCEL 2 CITY OF BUFFALO - PERFECTING TITLE
ABSTRACT BY STEWART TITLE No. 548723 DATED 5/18/10

[illegible]

PARCEL NO.

ALSO ALL THAT TRACT OR PARCEL OF LAND situate in the City of Butte, County of Erle and State of North Dakota and described as follows:

To-wit: A certain lot or parcel of land situated at the intersection of Adoby Street and Main Street where the same could be intersected by the southerly line of lands described in Parcel No. 17,608,719 being a distance of 17,608,719 feet from the southerly line of lands described in Parcel No. 17,618,214 to the northerly line of lands conveyed to the South Dakota Railroad Company by deed recorded in the Erie County Clerk's Office in Liber 1175 of Deeds at page 100, more particularly described as follows:

A certain lot or parcel of land containing 12.283 acres to the southerly line of lands conveyed to William H. Danner by deed recorded in the Erie County Clerk's Office in Liber 1175 of Deeds at page 100, more particularly described as follows:

A certain lot or parcel of land containing 12.283 acres conveyed by said deed to William H. Danner for a distance of 1,506,719 feet to the southerly line of the lands described in parcel No. 17,608,719 being a distance of 1,506,719 feet from the southerly line of lands described in Parcel No. 17,618,214 for a distance of 27,125 feet to the southerly line of the proposed Adoby Street at the place of beginning, thence 14,71 feet across Main Block "E" an

AS SURVEYED DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND situate in the City of Buffalo, County of Erie and State of New York, being part of Lot Nos. 17 and 18 of the Deplan Gore Tract and as shown on a map filed in the Erie County Clerk's Office under Cover No. 1008 as being Block E and part of Block F, bounded and described as follows:

BEGINNING at a point in the south line of TWT Street on originally laid out at the
 intersection with the west line of Abby Street on conveyed to the City of Buffalo by deed
 of the Erie County Clerk, dated and recorded in the Erie County Clerk's Office in Liber
 6091-32, W along the south line of TWT Street, 102.24 feet to the easterly corner of Parcel
 No. 12 of Map No. 3, acquired by the People of the State of New York by Notice of Sale
 of the Erie County Clerk, dated and recorded in the Erie County Clerk's Office in Liber
 6091-32, thence along the south line of said Parcel No. 12, also being the present south line of
 said TWT Street, 50.65 feet to a point; (2) S 62° 27' 15" W, 50.21 feet to a point of curve;
 (3) along a curve to the left having a radius of 1592.01 feet, 98° 57.74 feet to a point of
 tangency; (4) S 62° 27' 15" W, 50.21 feet to a point of curve;
 thence by deed recorded in the Erie County Clerk's Office in Liber 1363 of Deeds at page 424,
 thence S 20° 32' 39" E along the said west line of lands so conveyed to William H. Draper,
 100.00 feet to a point of tangency; (5) S 62° 27' 15" W, 50.21 feet to a point of curve;
 and recorded in the Erie County Clerk's Office in Liber 1176 of Deeds at page 470, thence
 along the south line of said Parcel No. 12, also being the present south line of said
 TWT Street, 173.73 feet, 13.00 feet to the west line of Abby Street; thence N 07° 04' 07" E along the west
 line of Abby Street, 123.24 feet to an angle point; thence N 07° 04' 07" E along the west line

PARCEL 4, ABBY STREET
ABSTRACT BY STEWART TITLE No. 546775, DATED 5/18/19

RECORD DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND situated in the City of Buffalo, County of Erie and State of New York, bounded and described as follows: Beginning at a point on the corner of the intersection of the western southerly of the center line of Abby Street as the same is now located, thence southerly 100.00 feet to a point on the center line of Abby Street for a distance of 60.33 feet to a point; thence southerly and parallel with Hoskins Street for a distance of 273.71 feet to an angle point; thence southerly and parallel with the center line of Abby Street for a distance of 100.00 feet to a point; thence southerly and parallel with the South Buffalo Railway Company by deed recorded in the Erie County Clerk's Office in Liber 100, folio 100, for a distance of 100.00 feet to a point; thence southerly and parallel with a distance of 87.11 feet to a point; thence southerly and parallel with Hoskins Street for a distance of 1,748.72 feet to an angle point; thence southerly and parallel with the center line of Abby Street for a distance of 100.00 feet to the Third Street; thence southerly and along the center line of Third Street for a distance of 35.32 feet to the

A5 SURVEYED DESCRIPTION

RECORDING OF A POINT IN THE CENTER LINE OF T111 STREET where the same could be determined by the intersection of the center line of **McNary Street**, the same is sold out north of T111 Street, thence southeasterly and along the said center line of T111 Street, to 55.33 feet to a point; thence S 03°04'00" W and parallel with Hopkins Street, 472.31 feet to a point; thence S 89°54'00" W and parallel with T111 Street, 35.33 feet to the center line of lands conveyed to the South Buffalo Railway Company by deed recorded in the Erie County Clerk's Office in Liber 117 of Deeds at page 470; thence southeasterly on a curve to the left with a radius of 627.67 feet and a central angle of 100°00'00" to a point; thence S 89°54'00" W and parallel with Hopkins Street, 1,747.02 feet to a point; thence N 00°00'00" E and parallel with Hopkins Street, 687.84 feet to the center line of T111 Street; thence southeasterly and along the center line of T111 Street, 35.33 feet to the

SURVEY CERTIFICATION

TO NEW YORK STATE - DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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 TECH. REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA, ACSM AND NPS IN 2005 AND PURSUANT TO THE RECOGNITION STANDARDS APPROVED BY ADOPTED BY AIAA AND AIAA. EFFECT OF THIS CERTIFICATION, THE UNDERSIGNED FURTHER CERTIFIES THAT IN MY PROFESSIONAL OPINION, THE RELATIVE POSITIONAL ACCURACY OF THIS SURVEY DOES NOT EXCEED THAT WHICH IS SPECIFIED THEREIN.

DATE: Jun-25, 2010

Latest Revision 6/23/2011

DOUGLAS R. HAGER
PROFESSIONAL LAND SURVEYOR NO. 090254

ALTA/ACSM LAND TITLE SURVEY

PART OF LOT 45, T 10, R 7
PART OF LOTS 17 & 18 OF THE OGDEN GORE TRACT
CITY OF BUFFALO, COUNTY OF ERIE, STATE OF NEW YORK

ALLTFT LANDFILL
SITE CODE 9-15-054

[illegible]

Donna Walker

From: Donna Walker
Sent: Thursday, August 11, 2011 4:08 PM
To: Jones, Betty (Betty_D_Jones@CSX.com)
Subject: NY-Erie-Declaration of Restrictions
Attachments: Scanned COPY of Document Recorded 081011.pdf; Recording Receipt 11206-9804.pdf

Your document has been recorded. The book and page information is printed on the attached recording receipt. Attached is a scan of the COPY provided by the recorder's office, marked FILED. The Erie County recorder is at least 2 months behind in filing original documents. I've been told not expect to receive the original document until sometime in October. I have it on my calendar to follow up toward the end of that month. It will be returned directly to me and I will forward to you at that time.

Donna M. Walker
Office Manager

Walker Title, LLC
and Jeffrey J. Walker, P. A.
118A West Main Street
Mountain City, TN 37683
423-727-0207 Toll Free: 866-727-0207
Fax: 423-727-0212
Email: dwalker@walkertitleTN.com
VISIT US ON THE WEB AT: www.walkertitleTN.com

"EVERYTHING COUNTS"

JOHN J. CRANGLE, JR., INTERIM ERIE COUNTY CLERK

PARALEGAL SERVICES/WALKER TITLE

ACCOUNT #:

RECEIPT: 11114512

DATE: 8/10/2011 TIME: 11:42:52 AM

ITEM - 01 774

RECD: 8/10/2011 11:42:52 AM

FILE: 2011162340 BK/PG D 11206/9804

CSX TRANSPORTATION INC SUC

Recording Fees	90.50
Sub. Total	90.50

TOTAL DUE	\$90.50
PAID TOTAL	\$90.50
PAID CHECK	90.00
Check #2330:	90.00
PAID CASH	0.50

REC BY: Francine
COUNTY RECORDER

Return to: Donna Walker
Walker Title LLC
118 A West Main St
Mountain City TN 37683

DECLARATION of COVENANTS and RESTRICTIONS

THIS COVENANT, made the 5th day of August 2011, by CSX Transportation, Inc., a Virginia corporation, successor by merger to Adrian Realty Co., a corporation organized and existing under the laws of the State of Virginia and having an office for the transaction of business at 500 Water Street, Jacksonville, Florida 32202;

WHEREAS, CSX Transportation, Inc. is the owner of property at 106 Abby Street in the City of Buffalo which is part of lands conveyed by William H. Donner and Dora B. Donner to Adrian Realty Company by deed dated November 18, 1919 and recorded in the Erie County Clerk's Office in Book 1436 of Deeds at Page 446, and which is identified by tax parcel number 132.12-1-22, hereinafter referred to as "the Property"; and

WHEREAS, the Property is part of an inactive hazardous waste disposal site which is known as the Alltft Landfill which is listed in the Registry of Inactive Hazardous Waste Disposal Sites in New York State as Site Number 915054 (the "Site"); and

WHEREAS, the New York State Department of Environmental Conservation (the "Department") set forth a remedy to eliminate or mitigate all significant threats to the environment presented by hazardous waste disposal at the Alltft Landfill Site in a Record of Decision ("ROD") dated March 27, 1995, and at the adjacent Ramco Steel Site Number 915046B in a ROD dated March 21, 1996, and such RODs required that the Property be subject to restrictive covenants.

WHEREAS, the Site and the adjacent Ramco Steel Site are the subjects of a consent order issued by the Department on January 28, 1998 pursuant to which a Department approved remedial program was conducted; and

NOW, THEREFORE, CSX Transportation, Inc., for itself and its successors and/or assigns, covenants that:

First, the Property subject to this Declaration of Covenants and Restrictions is identified as "Parcel 1" on a survey attached to this declaration as Appendix "A" and made a part hereof;

Second, unless prior written approval by the New York State Department of Environmental Conservation or, if the Department shall no longer exist, any New York State agency or agencies subsequently created to protect the environment of the State and the health of the State's citizens, hereinafter referred to as "the Relevant Agency," is first obtained, no person shall engage in any activity that will, or that reasonably is anticipated to, prevent or interfere significantly with any proposed, ongoing or completed program at the Property or that will, or is reasonably foreseeable to, expose the public health or the environment to a significantly increased threat of harm or damage.

FILED
AUG 10 2011
ERIE COUNTY
CLERK'S OFFICE

Third, the owner of the Property shall not impede the maintenance of the cap covering the Property and shall not impair the cap's grass cover, barrier protection layer or synthetic liner.

Fourth, the owner of the Property shall prohibit any new use of the Property without the express written waiver of such prohibition by the Department or the Relevant Agency.

Fifth, the owner of the Property shall prohibit the use of the groundwater underlying the Property without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless the user first obtains permission to do so from the Department or the Relevant Agency.

Sixth, the owner of the Property shall allow access to the Property for maintenance of the components of the remedy and shall allow access by the Department or the Relevant Agency to evaluate maintenance of the required controls.

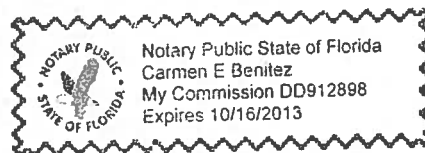
Seventh, the owner of the Property shall not interfere with and shall allow the maintenance of all surface wetlands, as required, in accordance with wetland permit "Application No. 98-976-0162(0), Nationwide Permit No. (38) as Published in the Federal Register, Volume 67, No. 10, on Tuesday January 15, 2002," issued by the United States Army Corps of Engineers on March 24, 2004.

Eighth, the owner of the Property shall not impede the maintenance of the wetlands water elevation control structure ("HEADWALL" on survey) and the associated discharge area.

Ninth, the owner of the Property shall not interfere with and shall continue in full force and effect any institutional and engineering controls the Department required to be put into place and maintained as set forth in relevant site documentation including the Operations, Maintenance, and Monitoring Manual (OM&M Manual), March 2006, and the Construction Certification Report, April 2006.

Tenth, this Declaration is and shall be deemed a covenant that shall run with the land and shall be binding upon all future owners of the Property and shall provide that the owner, and its successors and assigns, consents to the enforcement by the Department or the Relevant Agency of the prohibitions and restrictions that are required to be recorded, and hereby covenants not to contest the authority of the Department to seek enforcement.

Eleventh, any deed of conveyance of the Property, or any portion thereof, shall recite, unless the Relevant Agency has consented to the termination of such covenants and restrictions that said conveyance is subject to this Declaration of Covenants and Restrictions.



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, ACSM AND NSPS IN 2005 AND PURSUANT TO THE ACCURACY STANDARDS (AS ADOPTED BY ALTA AND ACSM AND IN EFFECT ON THE DATE OF THIS CERTIFICATION), THE UNDERSIGNED FURTHER CERTIFIES THAT IN MY PROFESSIONAL OPINION, THE RELATIVE POSITIONAL ACCURACY OF THIS SURVEY DOES NOT EXCEED THAT WHICH IS SPECIFIED THEREIN.

DATED: June 25, 2010

Latest Revision 6/23/2011

RECEIVED
N.Y.S. DEPT OF

JUN 30 2011

ENVIRONMENTAL CONSERVATION
REGION 9


DOUGLAS R. HAGER
PROFESSIONAL LAND SURVEYOR NO. 050204

ALTA/ACSM LAND TITLE SURVEY

PART OF LOT 45, T 10, R 7
PART OF LOTS 17 & 18 OF THE OGDEN GORE TRACT
CITY OF BUFFALO, COUNTY OF ERIE, STATE OF NEW YORK

ALLTIFT LANDFILL SITE CODE 9-15-054

PART OF L S T R OF THE VILLAGE OF : CITY/TOWN OF : COUNTY OF : STATE OF NEW YORK

ERIE

BUFFALO

NOTE: UNAUTHORIZED ALTERATION OR ADDITION TO ANY SURVEY, DRAWING, DESIGN SPECIFICATION PLAN OR REPORT IS A VIOLATION OF SECTION 7209, PROVISION 2 OF THE NEW YORK STATE EDUCATION LAW.

REVISION	
DATE	DESCRIPTION
6/23/11	2010.0229.00 LANDFILL CAP PLOTTED

SBL No. AS SHOWN



One Thousand Maple Road,
Elmira, NY 14859-9530
www.tvga.com

P. 716.655.8842 F. 716.655.0937

TVGA
CONSULTANTS

DRAWN BY HAW SCALE 1"=100'
CHECKED BY DRH JOB NO. 2010.0229.00
CAD FILE 26055-2010.DWG FIELD/OFFICE DATE 6/25/10

BOOK 366 PAGE 105 MAP 56055-2010

ARTICLES OF MERGER
OF
ADRIAN REALTY COMPANY
(A Pennsylvania corporation)
(the "Subsidiary Corporation")

NOW DOM

INTO

CSX TRANSPORTATION, INC.
(A Virginia corporation)
("CSXT")

Pursuant to the provisions of Sections 13.1-719 and 720 of the Code of Virginia.

1. The Plan of Merger is attached as Exhibit A ("Plan of Merger").
2. No shareholder approval of the Plan of Merger is required by the Subsidiary Corporation or CSXT as CSXT owns 100% of the outstanding shares of the Subsidiary Corporation. .
3. This merger is permitted by Section 13.1-719 of the Code of Virginia. All conditions required by such laws, and any other applicable provisions, have been satisfied.
4. CSXT, the surviving corporation, will continue to be a domestic corporation.
5. There is no change in the stated capital of CSXT as the surviving corporation.

The undersigned declares that the facts herein are true as of the 22nd day of December, 1995.

CSX TRANSPORTATION, INC.

By: *Terence J. Rytton*
Vice President

By: *James A. Wolan*
Assistant Corporate Secretary

ADRIAN REALTY COMPANY

By: *Terence J. Rytton*
Vice President

By: *James A. Wolan*
Assistant Corporate Secretary

**PLAN OF MERGER
OF
ADRIAN REALTY COMPANY

INTO

CSX TRANSPORTATION, INC.**

Plan of Merger dated as of the December 22, 1995, by and between CSX TRANSPORTATION, INC., a Virginia corporation ("Parent Corporation") and ADRIAN REALTY COMPANY, a Pennsylvania corporation ("Subsidiary Corporation"), such corporations being herein sometimes collectively called the "Constituent Corporations."

WHEREAS, the Parent Corporation owns 100% of the outstanding shares of stock of the Subsidiary Corporation and the Board of Directors of the Parent Corporation deemed it advisable that the Subsidiary Corporation be merged into the Parent Corporation, which shall also be called the "Surviving Corporation";

NOW, THEREFORE, the Subsidiary Corporation shall be merged with and into the Parent Corporation under and subject to the terms hereinafter set forth:

I. Terms, Conditions and Effective Date of Merger

1.1 Following adoption of this Plan of Merger by the Boards of Directors of the Constituent Corporations, the parties hereto shall cause Articles of Merger to be filed with the State Corporation Commission of the Commonwealth of Virginia and Articles of Merger to be filed with the Secretary of State of the Commonwealth of Pennsylvania. The separate existence of the Subsidiary Corporation shall cease as of the close of business on the Effective Date (as hereinafter defined) and the Subsidiary Corporation shall thereupon be merged into the Surviving Corporation.

1.2 The Effective Date of the Merger shall be December 29, 1995.

II. Conversion and Cancellation of Shares

2.1 The manner and basis of converting, cancelling or exchanging shares of capital stock of the Constituent Corporations on the Effective Date shall be as follows:

- (a) Each share of the Parent Corporation's common stock and preferred stock which is issued and outstanding on the Effective Date shall remain issued and outstanding as capital stock of the Surviving Corporation.
- (b) Each share of the Subsidiary Corporation's common stock shall be cancelled and no new shares or other securities or obligations or cash shall be issuable in respect thereto.

III. Effect of the Merger

3.1 Upon the Effective Date the assets and liabilities of Subsidiary Corporation shall be taken on the books of the Surviving Corporation at the amount at which they shall at the time be carried

on the books of Subsidiary Corporation, subject to such adjustments, if any, as may be necessary to conform to the accounting procedures of the Surviving Corporation.

3.2 After the Effective Date, the Surviving Corporation shall thereupon and thereafter possess all the rights, privileges, immunities, powers, franchises and authority, both public and private, of each of the Constituent Corporations. All property of every description, including every interest therein and all obligations of or belonging or due to each of the Constituent Corporations, shall thereafter be taken and deemed to be transferred to and vested in the Surviving Corporation without further act or deed. The officers of the Surviving Corporation, on behalf of Subsidiary Corporation, shall execute and deliver or cause to be executed and delivered after the Effective Date all such deeds and other instruments and shall take or cause to be taken such further action as the Surviving Corporation may deem necessary or desirable in order to confirm the transfer to and vesting in the Surviving Corporation of title to and possession of all such rights, privileges, immunities, franchises and authority. All rights of creditors of each Constituent Corporation shall be preserved unimpaired, limited in lien to the property affected by such liens immediately prior to the Effective Date, and the Surviving Corporation shall thereafter be liable for all the obligations of each of the Constituent Corporations.

3.3 The Articles of Incorporation of the Parent Corporation shall not be amended in any respect by reason of this Plan of Merger, and said Articles of Incorporation shall constitute the Articles of Incorporation of the Surviving Corporation until further amended in the manner provided by law.

0050336 - 7

COMMONWEALTH OF VIRGINIA
STATE CORPORATION COMMISSION

December 29, 1995

The State Corporation Commission finds the accompanying articles submitted on behalf of

CSX TRANSPORTATION, INC.

to comply with the requirements of law. Therefore, it is ORDERED that this

CERTIFICATE OF MERGER

be issued and admitted to record with the articles in the office of the Clerk of the Commission. Each of the following:

ADRIAN REALTY COMPANY (A PA CORPORATION NOT
QUALIFIED IN VA)

is merged into CSX TRANSPORTATION, INC., which continues to exist under the laws of VIRGINIA with the name CSX TRANSPORTATION, INC.. The existence of each non-surviving entity ceases, according to the plan of merger.

The certificate is effective on December 29, 1995.

STATE CORPORATION COMMISSION

By *J. V. Morrison*

Commissioner

HEBGACPT
CIS20436
95-12-29-0089

CHRISTOPHER L. JACOBS, ERIE COUNTY CLERK

ROBERT BILTEKOFF

ACCOUNT #:

RECEIPT: 12033141

DATE: 3/1/2012 TIME: 2:55:15 PM

DUPLICATE RECEIPT

ITEM - 01 774

RECD: 3/1/2012 2:55:15 PM

FILE: 2012050389 BK/PG D 11218/5702

SKYWAY AUTO PARTS INC

Recording Fees	65.50
Sub. Total	65.50

TOTAL DUE	\$65.50
PAID TOTAL	\$65.50
PAID CHECK	65.50
Check #1511:	65.50

REC BY: Francine
COUNTY RECORDER

Return to Box 277

FILED
MAR - 1 2012
ERIE COUNTY
CLERK'S OFFICE

DECLARATION OF COVENANTS AND RESTRICTIONS

THIS COVENANT, is made the 15th day of February 2012, by Skyway Auto Parts, Inc., a corporation organized and existing under the laws of the State of New York and having an office for the transaction of business at 637 Tift Street, Buffalo, New York.

WHEREAS, Skyway Auto Parts, Inc. ("Skyway") is the owner of property at 637 Tift Street in the City of Buffalo which is part of lands conveyed by Samuel P. Redino, Nicholas J. Redino and Wayne Rosen to Skyway Auto Parts by deed recorded in the Erie County Clerk's Office on October 25, 1982 in Book 09170 of Deeds at Page 00229, and which is identified by tax parcel number 133.09-1-17, hereinafter referred to as "the Skyway Property"; and

WHEREAS, the Skyway Property is adjacent to an inactive hazardous waste disposal site which is known as the Alltft Landfill Site which is listed in the Registry of Inactive Hazardous Waste Disposal Sites in New York State as Site Number 915054; and

WHEREAS, the New York State Department of Environmental Conservation (the "Department") set forth a remedy to eliminate or mitigate all significant threats to the environment presented by hazardous waste disposal at the Alltft Landfill Site in a Record of Decision ("ROD") dated March 27, 1995, and such ROD also required that the Skyway Property be subject to certain restrictive covenants.

WHEREAS, the Alltft Landfill Site is the subject of a consent order issued by the New York State Department of Environmental Conservation on January 28, 1998; and

NOW, THEREFORE, Skyway, for itself and its successors and/or assigns, covenants that:

First, the Property subject to this Declaration of Covenants and Restrictions is as shown on the Erie County Tax Map Number 133.09-1-17 attached to this Declaration as Appendix A and made a part hereof.

Second, unless prior written approval by the New York State Department of Environmental Conservation or, if the Department shall no longer exist, any New York State agency or agencies subsequently created to protect the environment of the State and the health of the State's citizens, hereinafter referred to as "the Relevant Agency", is first obtained, no person shall engage in any activity that will, or that reasonably is anticipated to, prevent or interfere significantly with any proposed, ongoing or completed program at the Alltft Landfill Site or that will, or is reasonably foreseeable to, expose the public health or the environment to a significantly increased threat of harm or damage.

Third, the owner of the Skyway Property shall provide notice of any change of use of the Skyway Property to the Department or the Relevant Agency at least 60 days before the change of use.

Fourth, the owner of the Skyway Property shall prohibit the use of the groundwater underlying the Property without treatment rendering it safe for drinking water or industrial purposes, as appropriate, unless the owner first obtains permission to do so from the Department or

the Relevant Agency.

Fifth, the owner of the Skyway Property shall allow access to the Skyway Property for maintenance of the components of the remedy and shall allow access by the Department or the Relevant Agency to evaluate maintenance of required controls.

Sixth, this Declaration is and shall be deemed a covenant that shall run with the land and shall be binding upon all future owners of the Skyway Property and shall provide that the owner, and its successors and assigns, consents to the enforcement by the Department or the Relevant Agency of the prohibitions and restrictions that are required to be recorded, and hereby covenants not to contest the authority of the Department or the Relevant Agency to seek enforcement.

Seventh, any deed of conveyance of the Skyway Property, or any portion thereof, shall recite, unless the Department or the Relevant Agency has consented to the termination of such covenants and restrictions, that said conveyance is subject to this Declaration of Covenants and Restrictions.

IN WITNESS WHEREOF, the undersigned has executed this instrument the day written below.

Skyway Auto Parts Inc.

By: Frank L. Dragone
Frank L. Dragone, Secretary/Treasurer

STATE OF NEW YORK)
) ss:
COUNTY OF ERIE)

On the 15 day of February, in the year 2012, before me the undersigned, personally appeared Frank L. Dragone, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by hi/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Robert A. Biltehoff
Notary Public State of New York

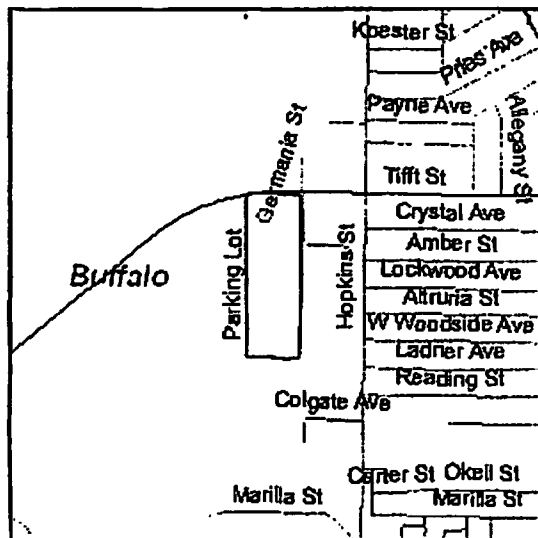
ROBERT A. BILTEKOFF
Notary Public, State of New York
Qualified in Erie County
My Commission Expires 02/12/20 14

Erie County On-Line Mapping System
Parcel Detail Report

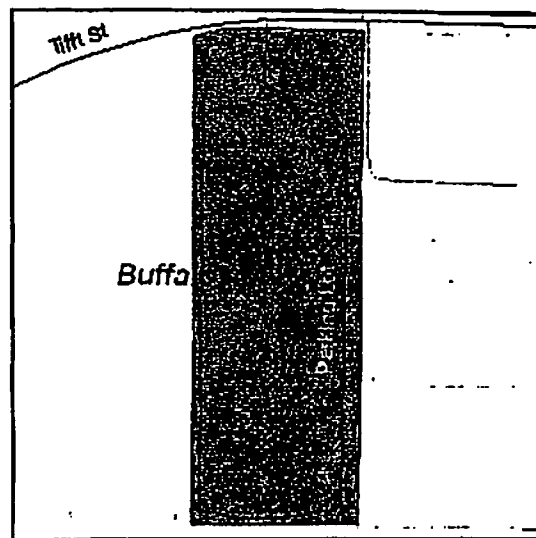
Address: 637 TIFFT

SBL: 133.09-1-17

Report generated: 10/19/2011 4:15:20 PM



Parcel Overview Map



Parcel Detail Map

APPENDIX A
RECORD DRAWINGS

SITE No 9-15-054
and
SITE No 9-15-046B

SITE

ROCHESTER □

BUFFALO □

N.Y.S. THRUWAY

SYRACUSE □

UTICA □

ROME □

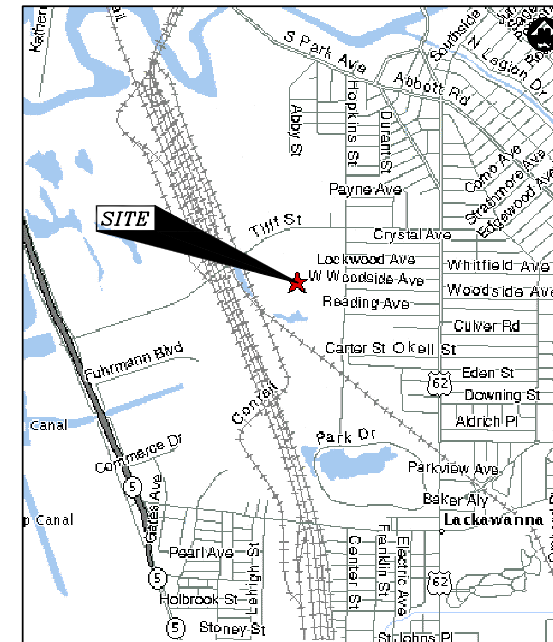
ROUTE 81

ROUTE 87

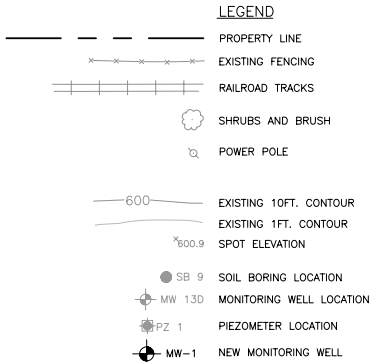
ALBANY □

N.Y. STATE MAP
NOT TO SCALE

INDEX OF DRAWINGS	
DRAWING No.	TITLE
G-01	TITLE SHEET AND SITE LOCATION MAP
C-01	EXISTING CONDITIONS SITE MAP
C-02	SUBGRADE EXCAVATION/DREDGING PLAN (1 OF 2)
C-03	SUBGRADE EXCAVATION/DREDGING PLAN (2 OF 2)
C-04	GAS VENTING LAYOUT PLAN
C-05	CAP PANEL LAYOUT
C-06	FINAL GRADE PLAN (1 OF 2)
C-07	FINAL GRADE PLAN (2 OF 2)
C-08	WETLAND HABITAT RESTORATION PLAN
C-09	GROUNDWATER COLLECTION TRENCH PROFILE
C-10	SECTIONS AND DETAILS
C-11	SECTIONS AND DETAILS
C-12	SECTIONS AND DETAILS
C-13	SECTIONS AND DETAILS
C-14	SECTIONS AND DETAILS
C-15	SECTIONS AND DETAILS
C-16	PUMP DISCHARGE TO SEWER SITE PLAN AND DETAILS
C-17	PUMP DISCHARGE TO SEWER SITE PLAN AND DETAILS
C-18	PUMP DISCHARGE TO SEWER SYSTEM P&ID AND DETAILS
C-19	PUMP DISCHARGE TO SEWER SHED LOCATION AND DETAILS
E-01	PUMP DISCHARGE TO SEWER ELECTRICAL SCHEMATIC WIRING DIAGRAM AND DETAILS
E-02	PUMP DISCHARGE TO SEWER ELECTRICAL SECTIONS AND DETAILS



DRAWING NO. G-01	ALLTFT LANDFILL/RAMCO STEEL SITE REMEDATION CONSTRUCTION	 HONEYWELL MORRISTOWN, NEW JERSEY	 100 LAWRENCE AVENUE, SUITE 100A MORRISTOWN, NJ 07960	Issue Certification		Job No. 741821				
REV 2	TITLE SHEET AND SITE LOCATION MAP			Designed EMM	Drawn MAB	Checked EMM	Reviewed MLL	Approved	1	12/05
							0	5/03	ISSUED FOR BIDDING	WLL EMW

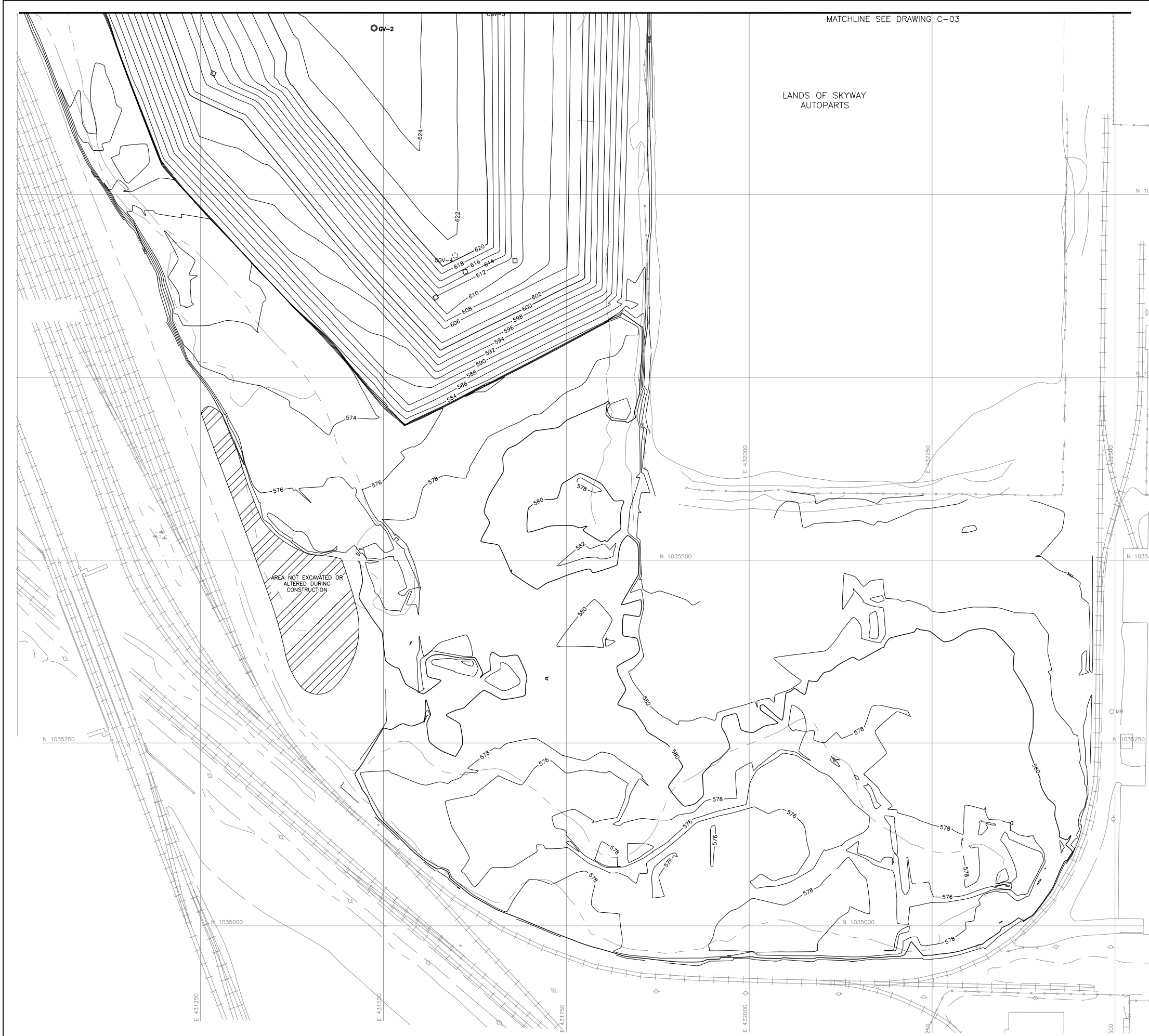


RECORD DRAWING

NOTES:

1. VERTICAL ACCURACIES CAN BE EXPECTED TO BE +/- ONE HALF CONTOUR INTERVAL FOR CONTOUR LINES, SPOT ELEVATIONS +/- 0.01 FEET.
2. GROUND SURVEY DATA USED AS THE BASIS FOR THE PHOTOGRAMMETRIC MAPPING, WAS PROVIDED BY MCINTOSH & MCINTOSH P.C., LOCKPORT, NEW YORK ON 5/8/89. VERTICAL DATUM IS NGVD 1929.
3. ALL RAILROAD TRACKS DEPICTED ADJACENT TO THE WESTERN SITE BOUNDARY MAY NOT EXIST.
4. VERTICAL DATUM REFERS TO NGVD 1929.
5. HORIZONTAL DATUM IS NEW YORK STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD1927.
6. THIS MAP BASED ON PHOTOGRAMMETRIC MAPPING BY ERDMAN, ANTHONY ASSOCIATES 1989, GROUND SURVEY DATA USED FOR THE PHOTOGRAMMETRIC MAPPING PROVIDED BY MCINTOSH & MCINTOSH, P.C. 1989. BASE MAPPING AUGMENTED BY PROPERTY SURVEY DATA PROVIDED BY IVGA, 1987. EXISTING SITE CONTOURS BASED ON POST CLEARING INSTRUMENT SURVEY COMPLETED MARCH 10, 2005 BY CLEAR CREEK LAND SURVEYING, L.L.C.

DRAWING NO.	C-01	REV.	3
ALLIOTT LANDFILL/RAMCO STEEL SITE REMEDIATION CONSTRUCTION EXISTING CONDITIONS SITE PLAN		 HONEYWELL MORRISTOWN, NEW JERSEY	
 PARSONS 1000 WEST 10TH AVENUE SUITE 100 NEW YORK, NY 10019-2000 TEL: (212) 512-2000 FAX: (212) 512-2001		Issue Certification for Record Drawing Purposes Job No. 440788 Designed EMM Drawn MAB Checked JSP 3 3/06 RECORD DRAWING 2 10/28/04 REVISED MONITORING WELL LOCATIONS 1 10/19/04 APPROVED TCA Approved TCA Reg. No. 047438 0 5/03 ISSUED FOR BIDDING Date APRIL 2006 Rev Description	

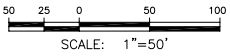


- NOTES:
1. REFER TO DRAWING C-1 FOR GENERAL NOTES AND LEGEND.
 2. WETLAND CONTOURS ARE ACTUAL FOLLOWING THE EXCAVATION OF WASTE.
 3. LANDFILL CONTOURS SHOWN ARE ACTUAL FOLLOWING FINAL SUBGRADE PREPARATION.

LEGEND

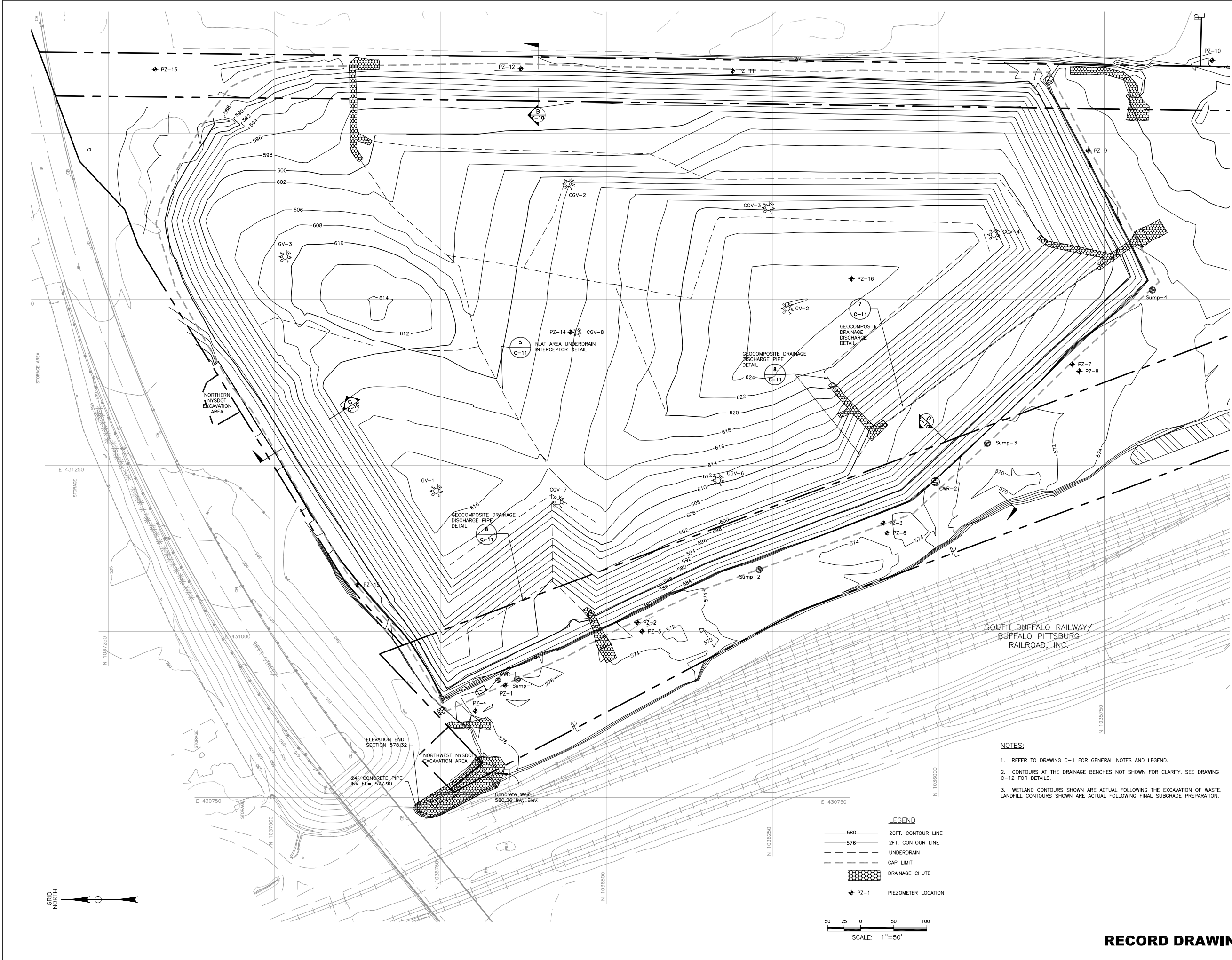
—580— 20FT. CONTOUR LINE

—576— 2FT. CONTOUR LINE



RECORD DRAWING

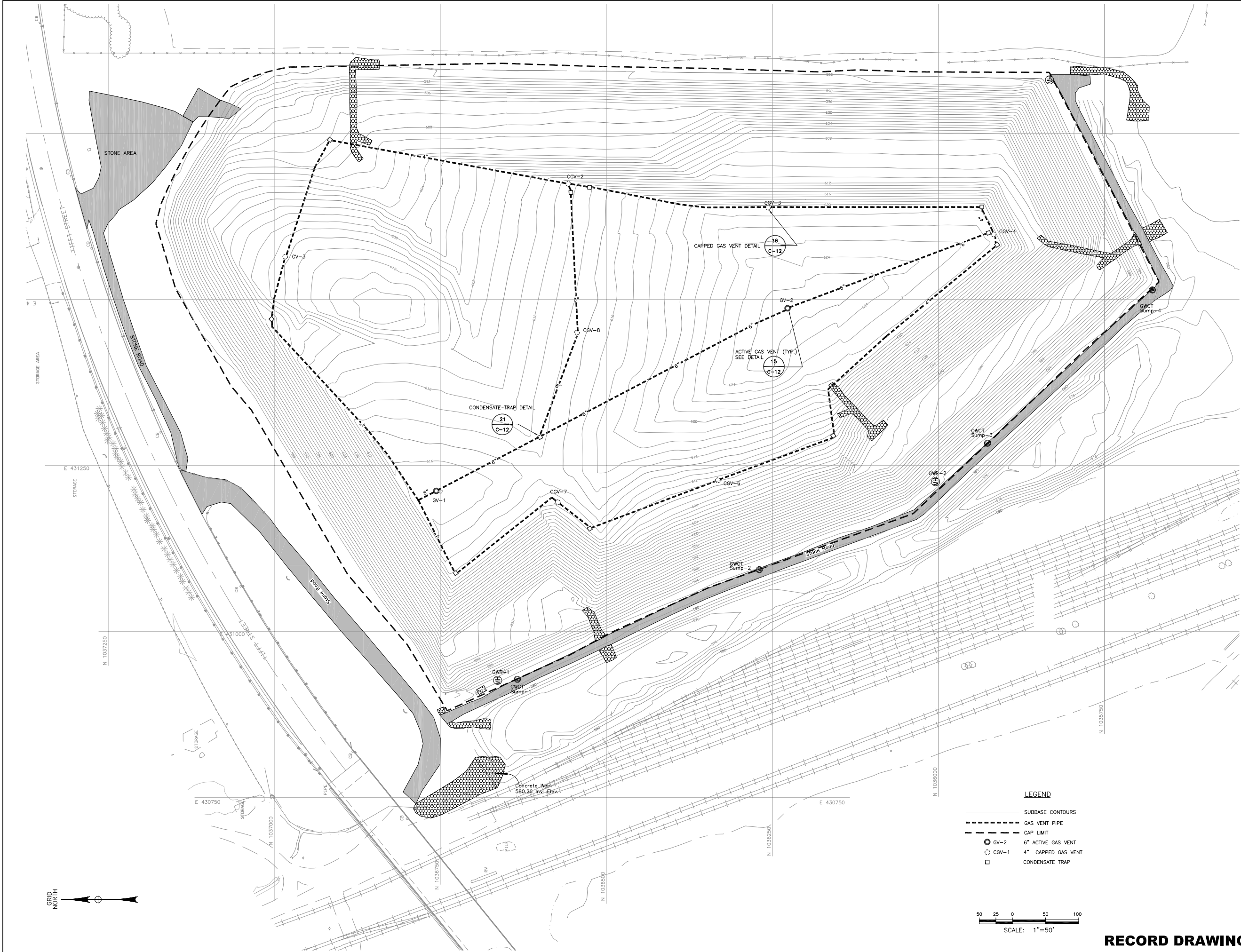
ALLTIFT LANDFILL/RAMCO STEEL SITE REMEDIATION CONSTRUCTION		Honeywell HONEYWELL MORRISTOWN, NEW JERSEY		Issue Certification for Record Drawing Purpose		Job No. 440788 Designed EMB Drawn MAB Checked JSP Reviewed JSA Approved JCA Reg. No. 047438 Date 04/01/2006		1 3/06 RECORD DRAWING 0 5/03 ISSUED FOR BIDDING		TCA ENW By
SUBGRADE EXCAVATION/DREDGING PLAN (1 OF 2)		DRAWING NO. C-02		REV. 1		Date		Rev		Description



- NOTES:
1. REFER TO DRAWING C-1 FOR GENERAL NOTES AND LEGEND.
 2. CONTOURS AT THE DRAINAGE BENCHES NOT SHOWN FOR CLARITY. SEE DRAWING C-12 FOR DETAILS.
 3. WETLAND CONTOURS SHOWN ARE ACTUAL FOLLOWING THE EXCAVATION OF WASTE. LANDFILL CONTOURS SHOWN ARE ACTUAL FOLLOWING FINAL SUBGRADE PREPARATION.

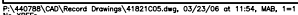
MATCHLINE SEE DRAWING C-02

ALLTFT LANDFILL/RAMCO STEEL SITE REMEDATION CONSTRUCTION		DRAWING NO. C-03		REV. 1	
SUBGRADE EXCAVATION/DREDGING PLAN (2 OF 2)		HONEYWELL MORRISTOWN, NEW JERSEY		TIA ENW By	
Issue Certification for Record Drawing Purpose		Job No. 440788 Designed ENR/RD Drawn MAB Checked JSP Reviewed JCA Approved JCA Reg. No. 047438 Date APRIL 2006		1 3/06 RECORD DRAWING ISSUED FOR BIDDING	
PARSONS 100 LAWRENCE HILL ROAD, SUITE 100 MORRISTOWN, NJ 07960 TEL: 973-837-1100 FAX: 973-837-1101		Rev		Date	
		0		5/03	
		1		3/06	



\\440788\CAD\Record Drawings\182104.dwg, 03/23/06 at 11:45, MAB, 1=1
No. 2659

ALLTIF LANDFILL/RAMCO STEEL SITE REMEDATION CONSTRUCTION		Honeywell HONEYWELL MORRISTOWN, NEW JERSEY		Issue Certification for Record Drawing Purpose		Job No. 440788 Designed EMB Drawn MAB Checked JSP Reviewed SA Approved JCA Reg. No. 047438 Date 04/01/2006		Revision Rev Date Description		By	
DRAWING NO. C-04		REV. 1		1		3/06		RECORD DRAWING		TJA	
				0		5/03		ISSUED FOR BIDDING		ENW	

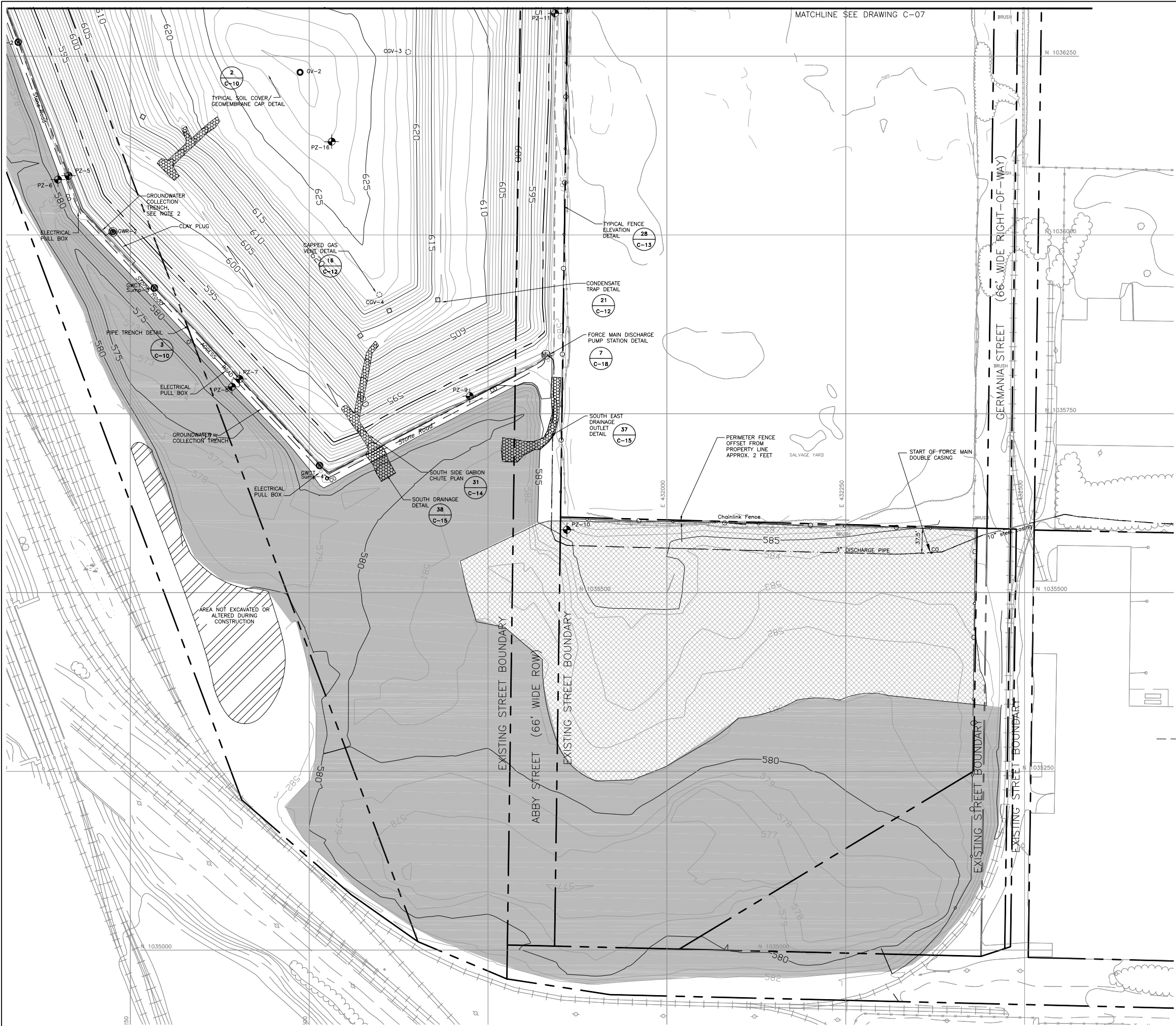


SCALE: 1"=50'

----- CAP LIMIT

ds-103A r694 □ LINER REPAIR LOCATION

REV.
0



NOTES:

- REFER TO DRAWING C-01 FOR GENERAL NOTES AND LEGEND.
- REFER TO DRAWING C-16 FOR GROUNDWATER COLLECTION TRENCH/ DISCHARGE PIPE LOCATION AND DETAILS.
- REFER TO DRAWING C-01 FOR LOCATIONS OF BACKGROUND MONITORING WELLS MW-1 AND MW-2.

GRID NORTH

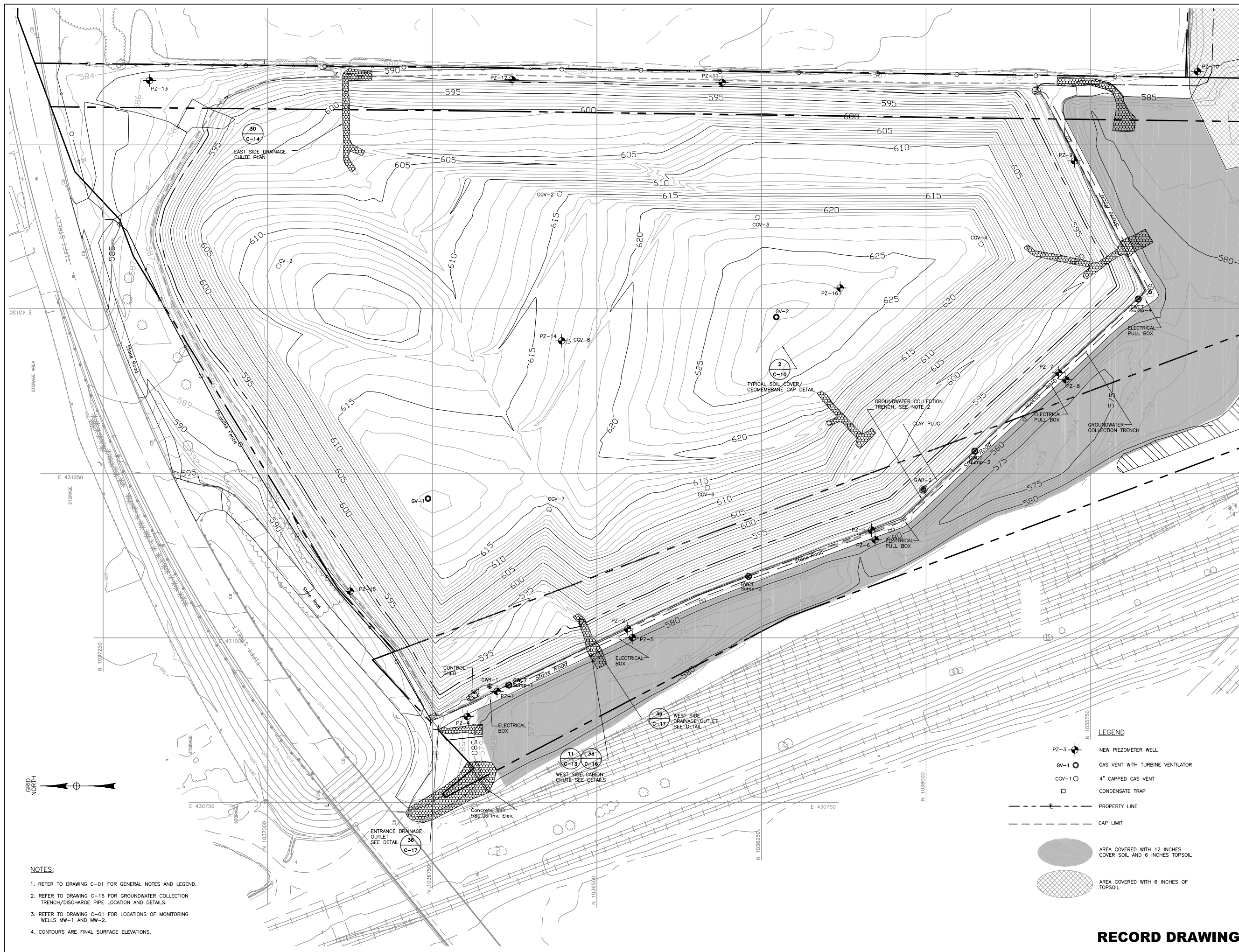
LEGEND

- MW-6 NEW MONITORING WELL
- PZ-3 NEW PIEZOMETER WELL
- GV-1 GAS VENT WITH TURBINE VENTILATOR
- CGV-1 CAPPED GAS VENT
- CONDENSATE TRAP
- DRAINAGE CHUTE
- CAP LIMIT
- AREA COVERED WITH COVER SOIL AND 6 INCHES TOPSOIL
- AREA COVERED WITH 6 INCHES OF TOPSOIL

SCALE: 1"=50'

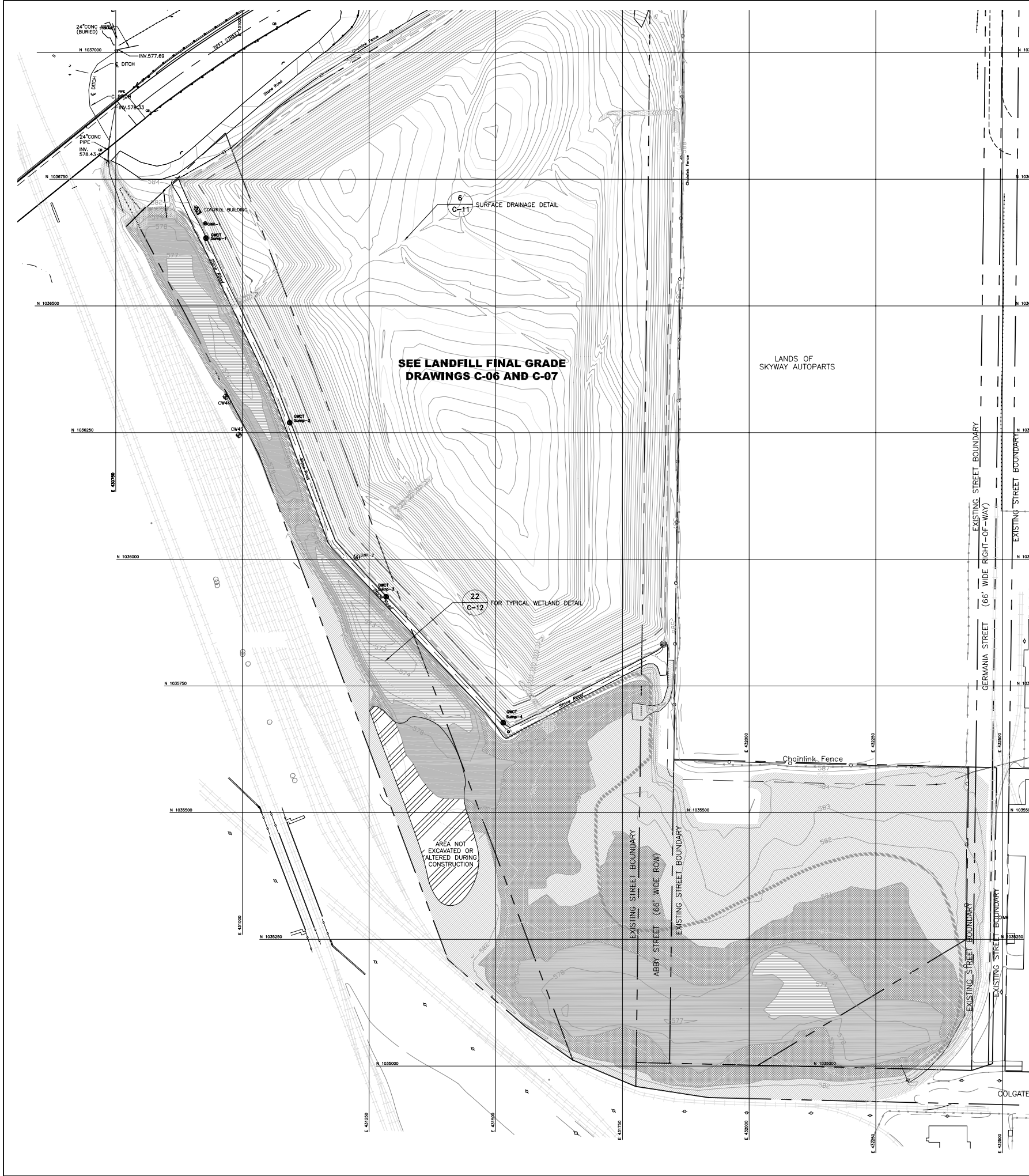
RECORD DRAWING

Job No. 440788	Issue Certification for	 Honeywell HONEYWELL MORRISTOWN, NEW JERSEY	 ALLTIF LANDFILL/RAMCO STEEL SITE REMEDATION CONSTRUCTION FINAL GRADE PLAN (1 OF 2)
Designed EMB	Record Drawing Purpose		
Drawn MAB			
Checked MSP			
Reviewed SA			
Approved JCA			
Reg. No. 047438			
Date APRIL 2006			
Rev	Date	Rev	Description
1	3/06	1	RECORD DRAWING
0	5/03	0	ISSUED FOR BIDDING
		TCA	By
		ENW	



RECORD DRAWING

DRAWING NO.	C-07
REV.	1
ALLTIFT LANDFILL/RAMCO STEEL SITE REMEDIATION CONSTRUCTION	
Honeywell HONEYWELL MORRISTOWN, NEW JERSEY	
 MR. JAMES R. DE LUCA, P.E. MR. JAMES W. MCLELLAN, P.E. MR. JOHN A. MURPHY, P.E. PARSONS PROJECT # 04-031206	
Issue Certification for Record Drawing Purposes	
Job No. 440798	Designed EWM/TF
Drawn _____	MAB
Checked _____	JSP
Reviewed SA _____	Approved TCA
Reg. No. 047439	ISSUED FOR BIDDING
Date APRIL 2006	Rev Description
1 3/06 RECORD DRAWING	TCA
0 5/03	EWM
_____	By



NOTES:

1. REFER TO DRAWING C-1 FOR GENERAL NOTES AND LEGEND.
2. SEED LANDFILL CAP AREA WITH GRASS SEED MIX PER SECTION 02990.
3. CONTOURS SHOWN ARE FINAL GRADES.

WETLAND PLANTING NOTES:

THE FOLLOWING IS A PLANTING GUIDE FOR THE WETLAND RESTORATION OF THE ALLTFT/RAMCO SITE.

PLANTING:
The planting of bare root herbaceous vegetation is most suitable in the fall or spring. Plant replacement wetland plantings during the most suitable season following construction after the hydrology has been established.

Within each planting area, the specified plant species should be planted in spaced groupings. Each plant species must be established in the shallow range of its known tolerance. Plant material planted too deep may break dormancy and grow, but will not survive to establish as planned.

Seeding and mulching of the wet meadow and upland areas must be completed prior to inundation of the wet meadow area. Seeding and mulching should be conducted in the early fall, prior to the first killing frost. Wet meadow seed locations should be broadcast seeded (not hydroseeded). Hydroseeding is acceptable for the upland areas.

ZONE	HABITAT	ELEVATION	INUNDATION	SPECIES	PLANTING RATE
1	UPLAND	581 - 585	NONE	Smooth brome grass Timothy grass Perennial rye grass Birdfoot trefoil	15 lb/acre 15 lb/acre 15 lb/acre 8 lb/acre
2	WET MEADOW EMERGENT MARSH	579 - 581	0 IN - 1 FT	Fox sedge Rice cut-grass Bull rush Soft rush Wool grass Bearded sedge Smart weed Reed canary grass Fowl manna grass Meadow fescue Red Top grass	Seed rate of 3.25 lb/acre 15 lb/acre 10 lb/acre 15 lb/acre 20 lb/acre 3 lb/acre
3	DEEP WATER EMERGENT	577 - 579	1.0 FT - 3 FT	SEE SPECIAL PLANTING NOTES:	
4	OPEN WATER	575 - 577	3 FT - 5 FT	NONE	NA

SPECIAL PLANTING NOTES:

PLANTS (TUBERS AND RHIZOMES) CAN BE BUOYANT. PERSONNEL PLANTING THE FOLLOWING SPECIES MUST INSURE THAT THIS MATERIAL IS PLANTED AT THE PROPER DEPTH. TO PREVENT FLOATING, THE TUBERS OR RHIZOMES MUST BE EITHER WEIGHTED (HOG CLIPS OR OTHER SUCH WEIGHT) OR SECURELY PLACED INTO THE SUBSTRATE.

SPECIES:

PLANTING SUBZONE 3A: ELEVATION 578.50-579.00 (APPROX. 18 TO 24 INCHES OF WATER)

CATTAIL -
Plants grown from sprouted rhizomes.
Rhizomes should be planted in spring (March through July).
Secure plants into substrate by either weights or shoving firmly into mud.
Plant rhizomes at a rate of 6 foot on center.

GIANT BUR-REED -
Plants grown from sprouted rhizomes.
Rhizomes should be planted in spring (March through July).
Secure plants into substrate by either weights or shoving firmly into mud.
Plant rhizomes at a rate of 6 foot on centers (offset 3ft from cattail).

PLANTING SUBZONE 3B: ELEVATION 578.00-578.50 (APPROX. 12 TO 18 INCHES OF WATER)

PICKEREL WEED -
Plants grown from sprouted rhizomes.
Rhizomes should be planted in the fall (before November).
Secure plants into substrate by either weights or shoving firmly into mud.
Plant rhizomes at a rate of 6 foot on center intervals for uniform cover over desired areas.

DUCK POTATO -
Plants grown from tubers.
Tubers should be planted in the spring (March through July) or fall before freeze-up.
Secure plants into substrate by either weights or shoving firmly into mud.
Plant at a rate of 6 foot on center (offset 3ft from pickerel weed).

PLANTING SUBZONE 3C: ELEVATION 577.00-578.00 (APPROX. 24 TO 36 INCHES OF WATER)

SAGO PONDWEED -
Plants grown from tubers.
Tubers should be planted in the spring (March - July) or before fall freeze-up.
Tubers can be pre-weighted with hog clip or fence staple to prevent floating.
Plant at a rate of 6 feet on center for uniform cover over desired areas.

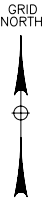
SPATTERDOCK -
Plants grown from sprouted rhizomes.
Rhizomes should be planted in fall (before November).
Secure plants into substrate by either weights or shoving firmly into mud.
Plant rhizomes at a rate of 6 foot on center (offset 3ft from sago pondweed).

LEGEND

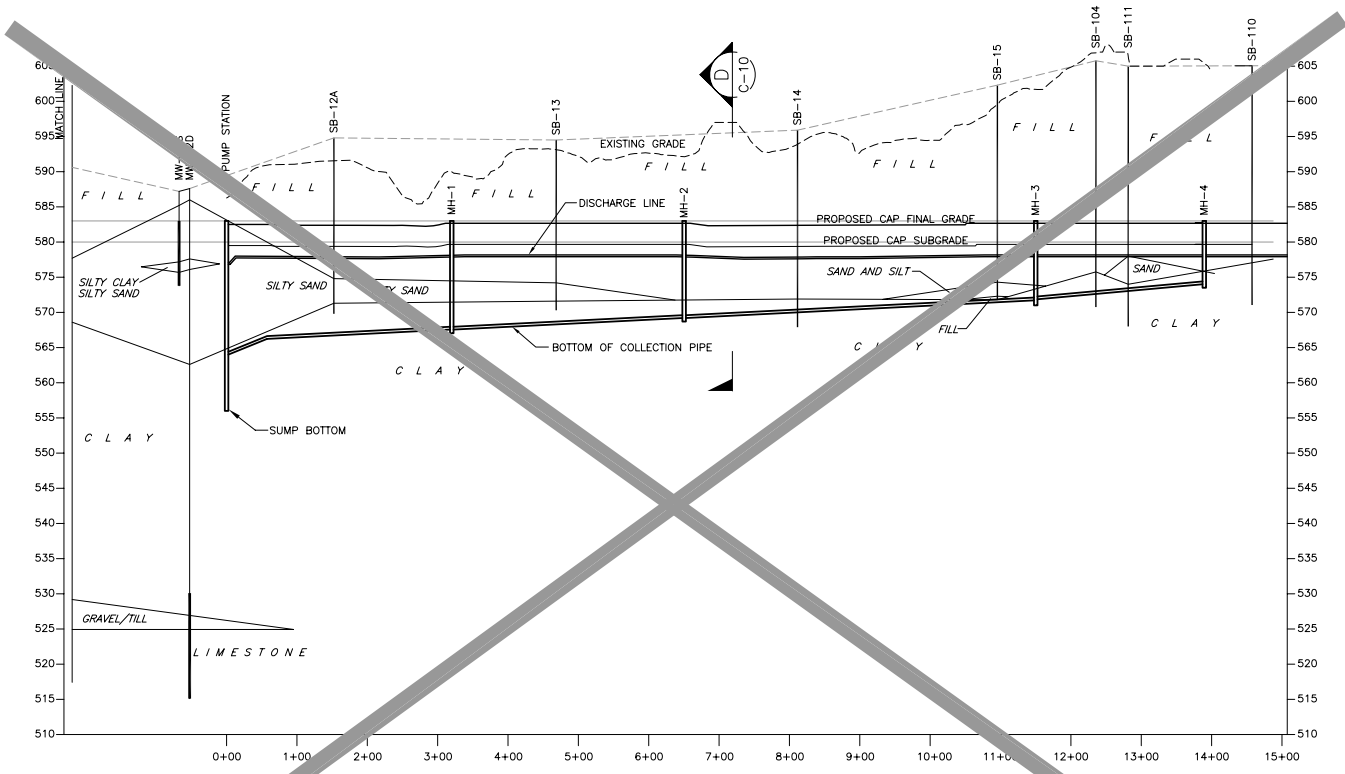
- RAILROAD TRACKS
- 575 5FT. CONTOUR LINE
- 576 1FT. CONTOUR LINE
- CAP LIMIT LINE

- ZONE 1
ELEVATIONS BETWEEN 581 TO 585
- ZONE 2
ELEVATIONS BETWEEN 579 TO 581 - 6.00 ACRES
- ZONE 3
ELEVATIONS BETWEEN 577 TO 579 - 4.03 ACRES
- ZONE 4
ELEVATIONS BETWEEN 575 TO 577 - 1.37 ACRES
- WOODY BUFFER ZONE

80 40 0 80 160
SCALE: 1"=80'



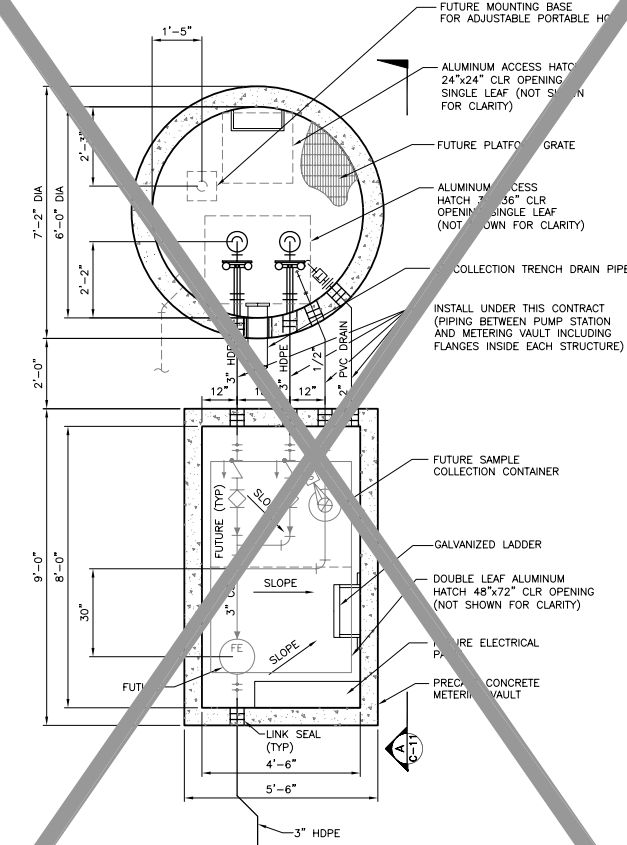
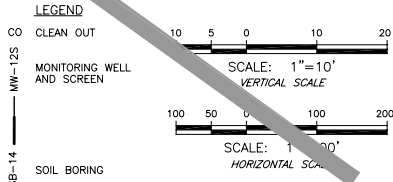
Job No. 440738 Designed EMB Drawn MAB Checked JSP Reviewed SA Approved JCA Reg. No. 047438 Date APRIL 2006		Issue Certification for Record Drawing Purpose		Job No. 440738 Designed EMB Drawn MAB Checked JSP Reviewed SA Approved JCA Reg. No. 047438 Date APRIL 2006		1 3/06 0 5/03 RECORD DRAWING ISSUED FOR BIDDING		TCA ENR By			
Honeywell HONEYWELL MORRISTOWN, NEW JERSEY				ALLTFT LANDFILL/RAMCO STEEL SITE REMEDATION CONSTRUCTION				DRAWING NO. C-08		REV. 1	
WETLAND HABITAT RESTORATION PLAN											



COLLECTION TRENCH SCHEDULE			
STATION	DESCRIPTION	INVERT	RIM EL.
0+00	SUMP BOTTOM	556.00	584.00
0+00	COLLECTION PIPE	564.00	584.00
0+55	COLLECTION PIPE	566.23	-
3+00	CLEANOUT MH-1	567.53	584.00
5+50	CLEANOUT MH-2	569.20	584.00
11+10	CLEANOUT MH-3	571.50	584.00
13+55	CLEANOUT MH-4	574.00	584.00

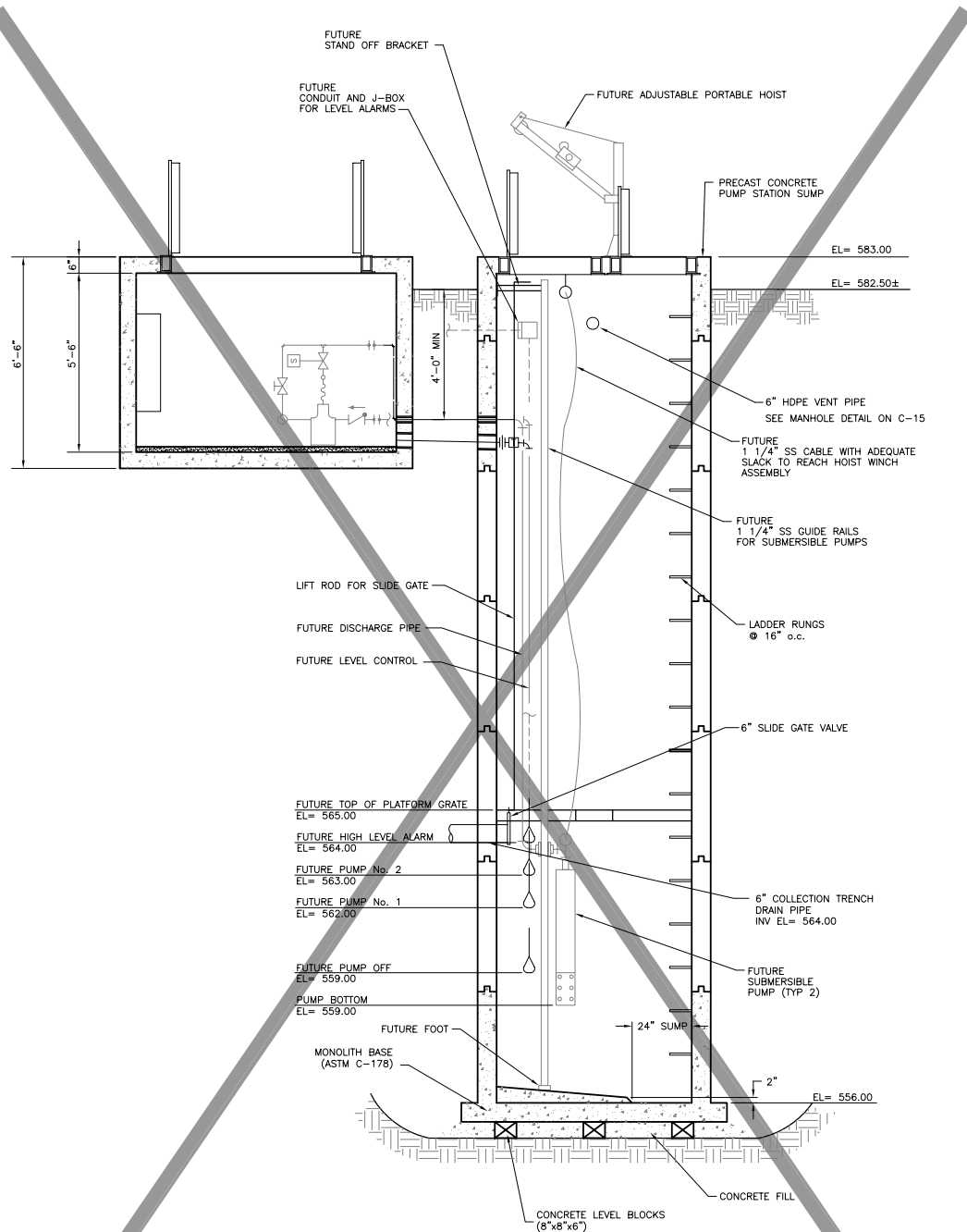
GROUNDWATER COLLECTION TRENCH PROFILE
SCALE AS SHOWN

SEE C-16 FOR REVISED DETAILS.
DELETED PER FIELD CHANGE FC009.



PUMP STATION AND METERING VAULT DETAIL
SCALE: 1/2" = 1'-0"

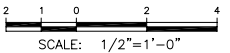
SEE C-16 FOR REVISED DETAILS.
DELETED PER FIELD CHANGE FC009.



PUMP STATION AND METERING VAULT SECTION
SCALE: 1/2" = 1'-0"

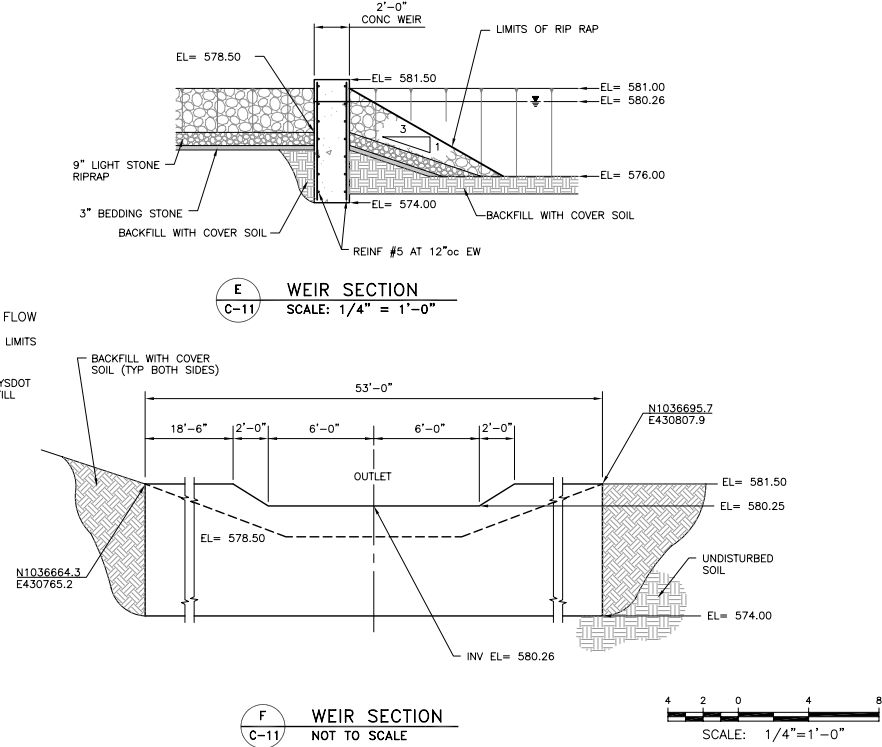
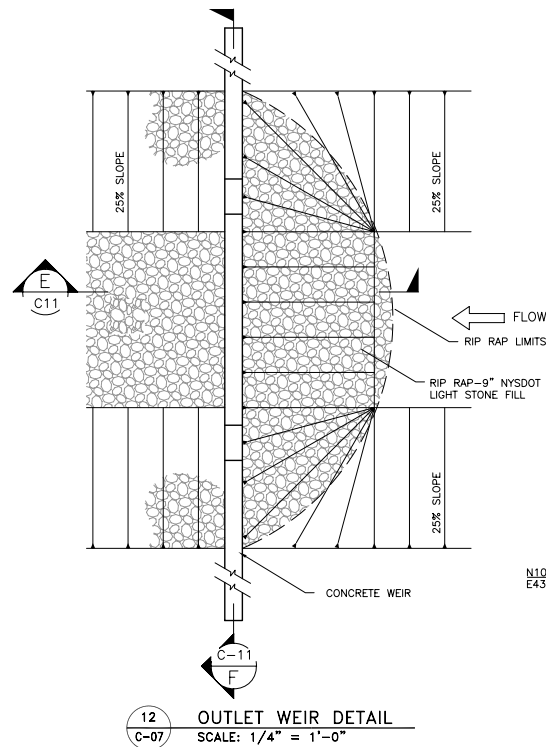
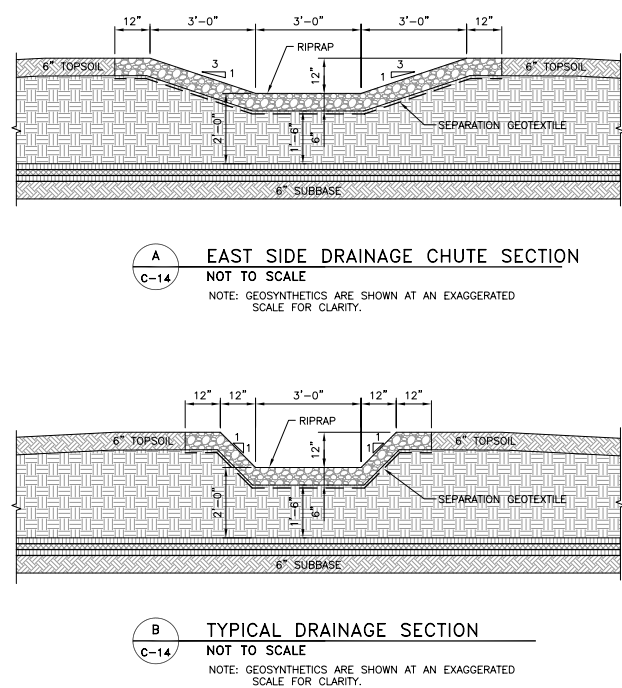
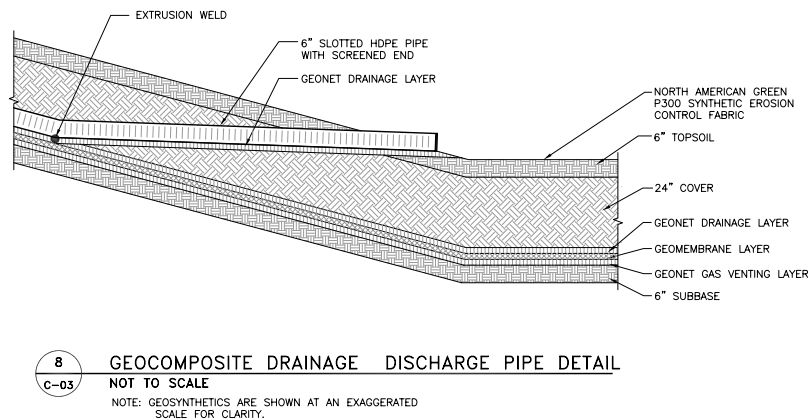
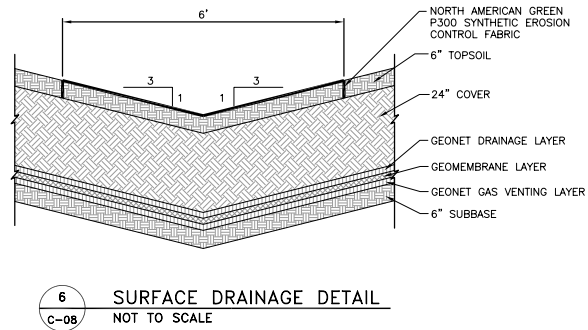
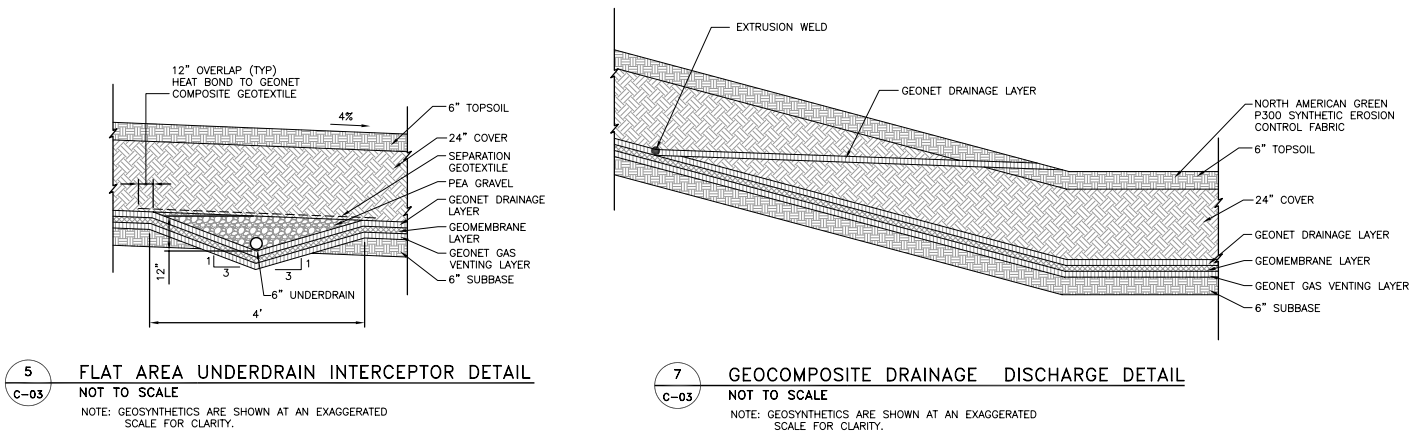
- NOTES:
- ITEMS DESIGNATED FUTURE ARE NOT INCLUDED IN THIS CONTRACT
 - ATTACH METAL SIGN TO PUMP STATION VAULT AND METERING VAULT STATION DEPICTING THE FOLLOWING: "DANGER- PERMIT REQUIRED CONFINED SPACE, DO NOT ENTER"

SEE C-16 FOR REVISED DETAILS.
DELETED PER FIELD CHANGE FC009.



RECORD DRAWING

ALLTIT LANDFILL/RAMCO STEEL SITE REMEDIATION CONSTRUCTION		DRAWING NO. C-09		REV. 2	
Honeywell		HONEYWELL MORRISTOWN, NEW JERSEY		TCA TP ENW By	
Issue Certification for Record Drawing Purpose		Job No. 440788 Designed JSS Drawn MAB Checked JSP Reviewed SJA Approved LCA Reg. No. 047438 Date 04/01/2006		2 3/06 RECORD DRAWING 1 5/03 MODIFIED WARNING SIGN AND MH VENT 0 5/03 ISSUED FOR BIDDING	
PARSONS		100 LAWRENCE HILL ROAD, SUITE 100 MORRISTOWN, NJ 07960 TEL: 973-835-1100 FAX: 973-835-1101		Description	



RECORD DRAWING

Job No. 440788	Issue Certification for	Drawn: EMB	Record Drawing Purpose	DESIGNED: EMB/RD	Drawn: EMB	Checked: JSP	Reviewed: JSA	Approved: JCA	Reg. No. 047438	Date: APRIL 2006	Rev	Date	Description	By
											2	3/06	RECORD DRAWINGS	TCA
											1	7/04	AS-BUILT DRAWING	WLL
											0	5/03	ISSUED FOR BIDDING	ENW

PARSONS

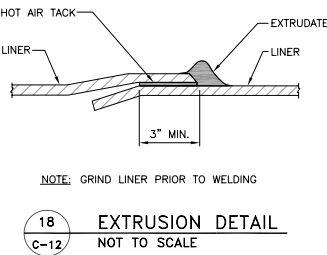
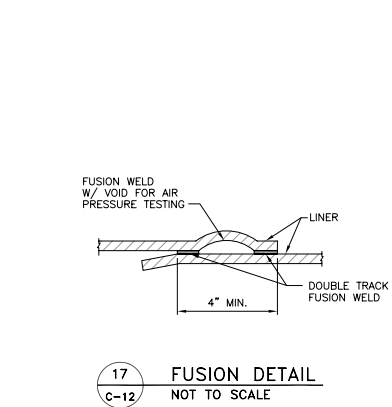
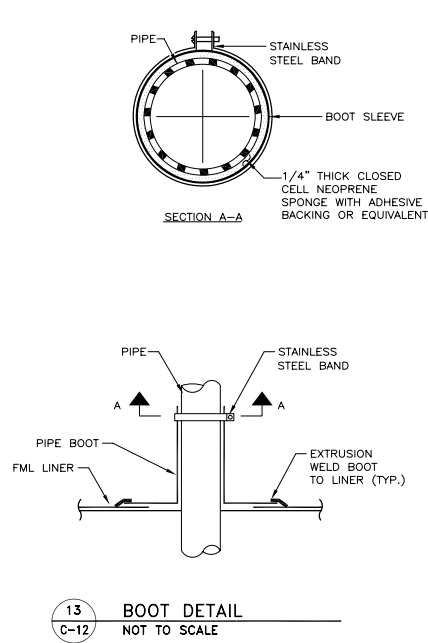
Honeywell

HONEYWELL
MORRISTOWN, NEW JERSEY

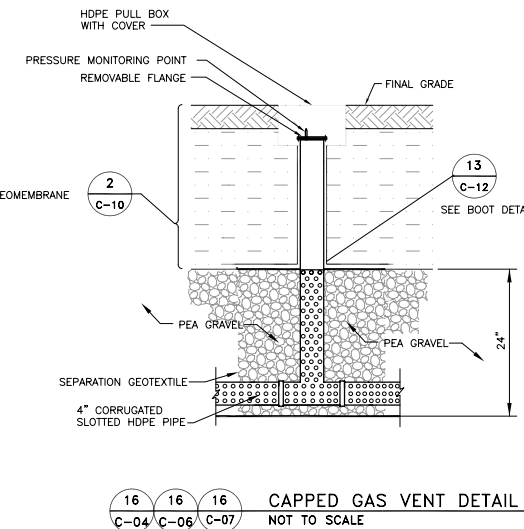
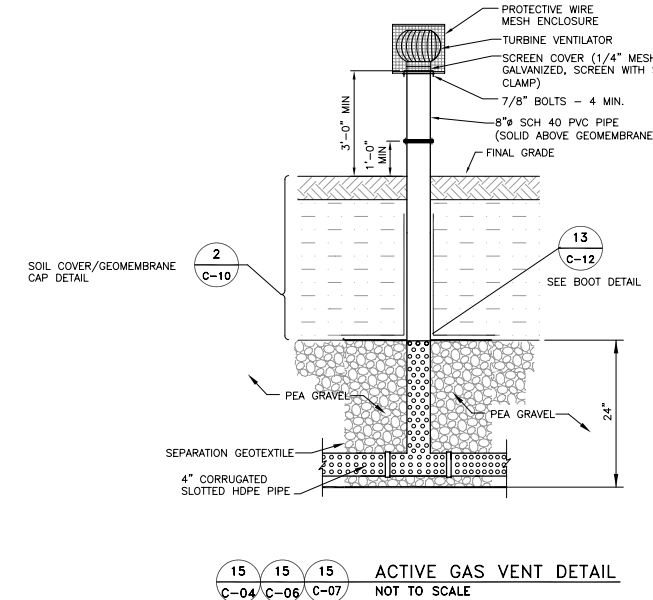
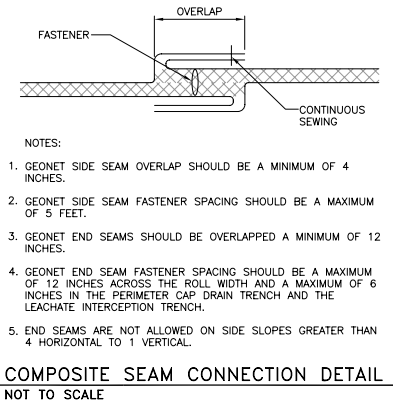
ALLTFT LANDFILL/RAMCO STEEL SITE
REMEDIATION CONSTRUCTION

SECTIONS AND DETAILS

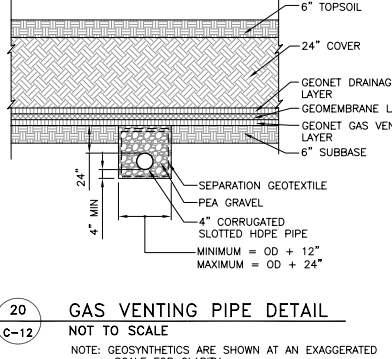
DRAWING NO. C-11
REV. 2



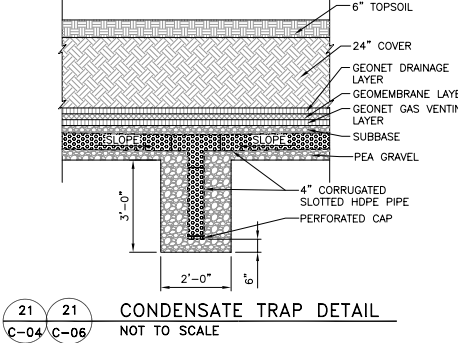
NOTE: GRIND LINER PRIOR TO WELDING



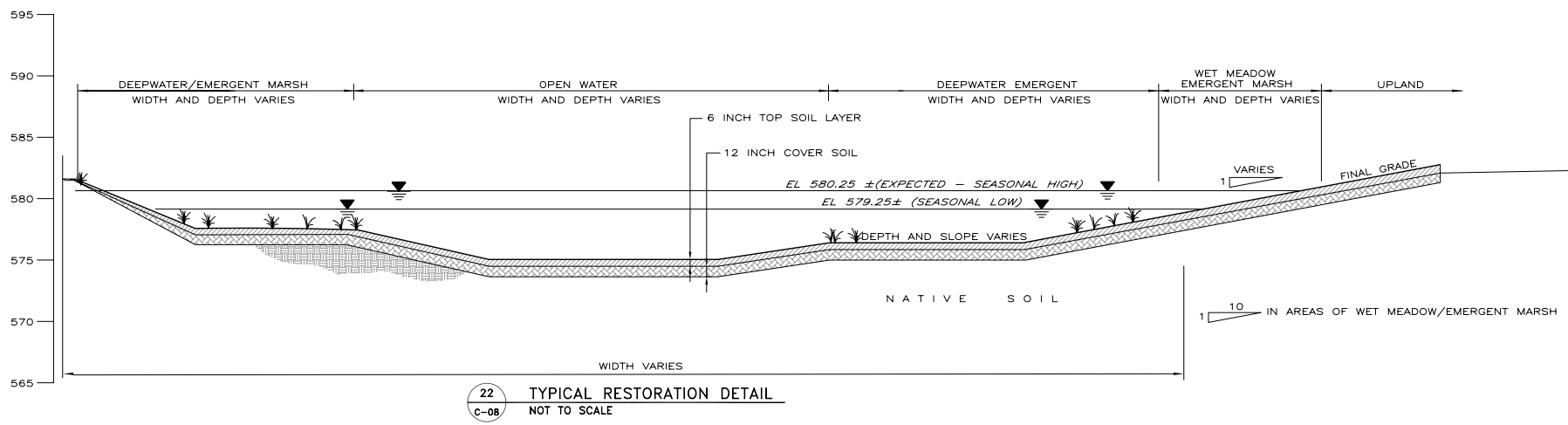
NOTE: THE VENTS SHALL BE KEPT OPEN DURING CONSTRUCTION. CONTRACTOR SHALL PREVENT THE VENTS FROM DAMAGE AND BLOCKAGE BY EXTENDING THE VENT AND PLACING A SCREEN ON THE END.



NOTE: GEOSYNTHETICS ARE SHOWN AT AN EXAGGERATED SCALE FOR CLARITY.

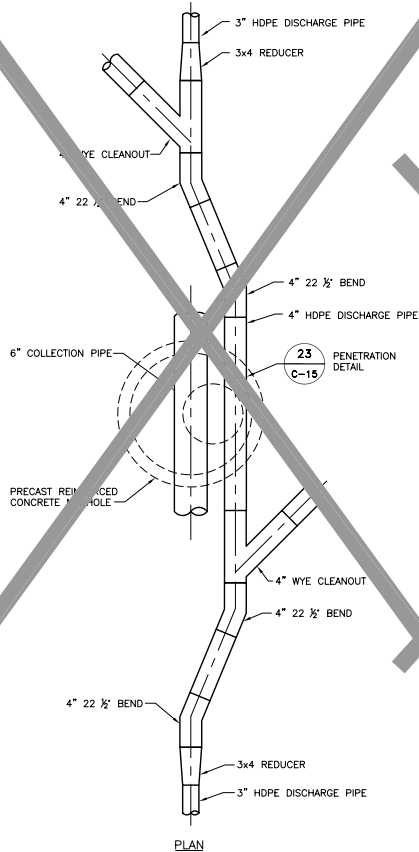


TYPICAL CROSS SECTION ALONG PROPOSED RESTORATION /MITIGATION AREA. NOTES:
REFER TO DRAWING C-08 FOR DETAILED SEED AND PLANTING NOTES.
FINAL ELEVATION ACHIEVED AFTER THE PLACEMENT OF 12 INCHES COVER SOIL 6 INCHES OF CLEAN TOP SOIL MATERIAL IN THOSE AREAS WHICH ARE TO BE PLANTED.

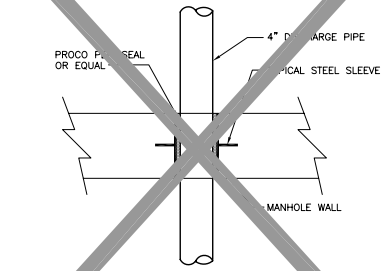


RECORD DRAWING

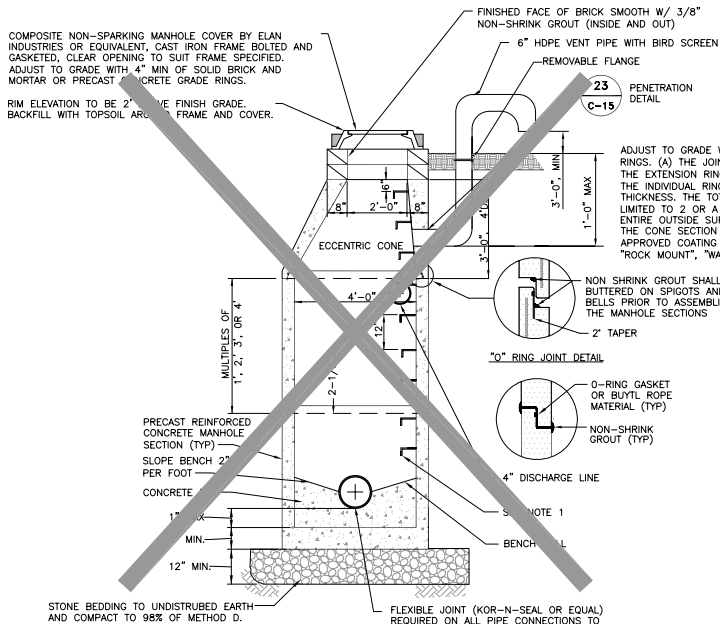
Job No. 440788	Issue Certification for	Drawn: MAB	Checked: JSP	Reviewed: SA	Approved: LCA	Reg. No. 047438	Date: APRIL 2006	Rev	Date	Description	TCA	ENR	By
Record Drawing Purpose													
ALLTIF LANDFILL/RAMCO STEEL SITE REMEDIATION CONSTRUCTION													
SECTIONS AND DETAILS													
DRAWING NO. C-12													
REV. 1													



SEE C-16 FOR REVISED DETAILS.
DELETED PER FIELD CHANGE FC009.



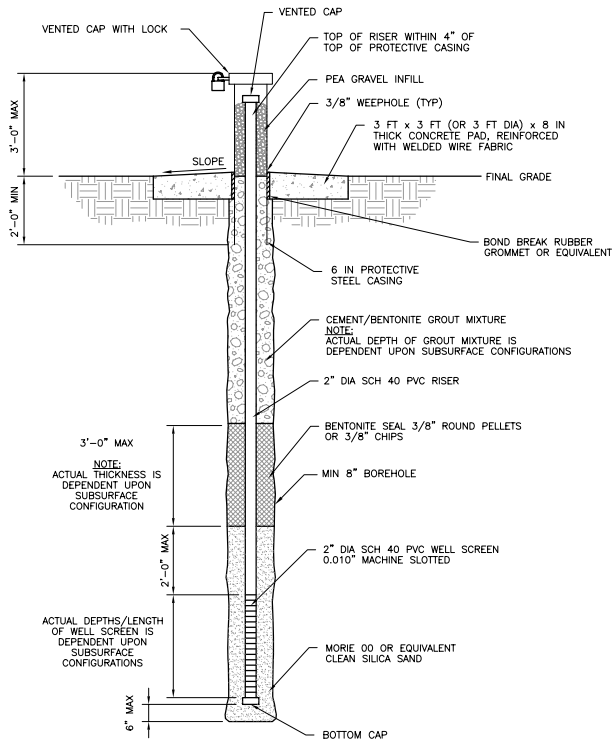
23
C-15
MANHOLE PENETRATION DETAIL
NOT TO SCALE



- NOTE:
- MANHOLE STEPS SHALL BE INSTALLED BY PRECAST MANHOLE MANUFACTURER.
 - PIPE SHALL NOT BE CLOSER THAN 6" TO MANHOLE JOINT SURFACES FOR BASE AND BARREL SECTIONS.
 - ATTACH METAL SIGN TO MANHOLE COVER DEPICTING THE FOLLOWING:
"DANGER - PERMIT REQUIRED CONFINED SPACE, DO NOT ENTER"

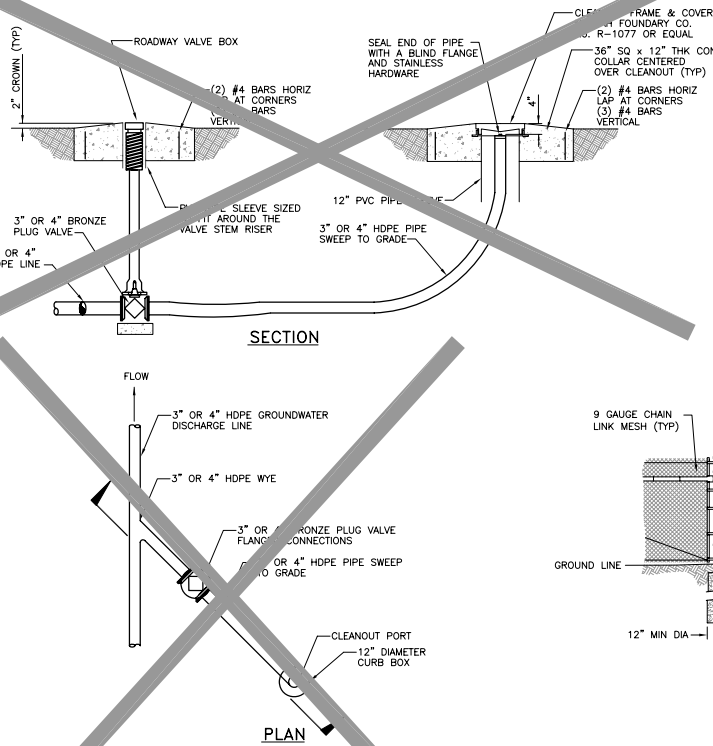
26
C-7
TYPICAL MANHOLE DETAIL
NOT TO SCALE

SEE C-16 FOR REVISED DETAILS.
DELETED PER FIELD CHANGE FC009.



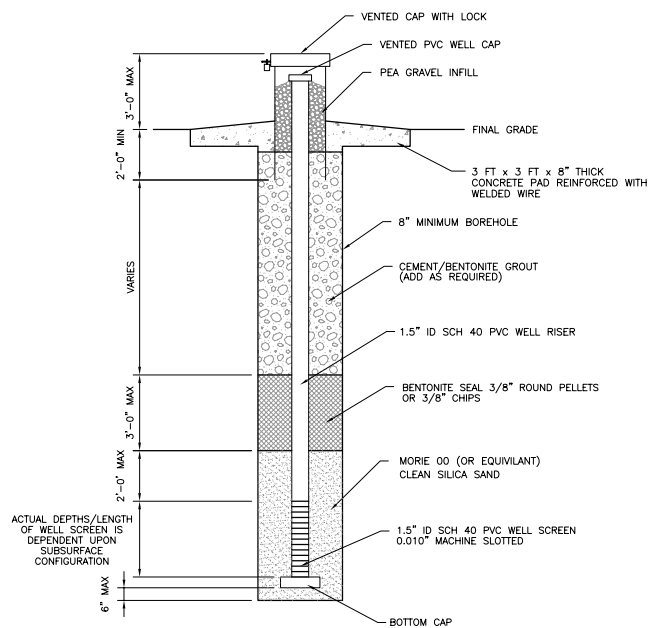
*PURSUANT TO NYSDC
PART 360 REGULATIONS, 10/93

24
C-08
OVERBURDEN MONITORING WELL DETAIL*
NOT TO SCALE
(TYPICAL FOR MONITORING WELLS MW-1 AND MW-2)



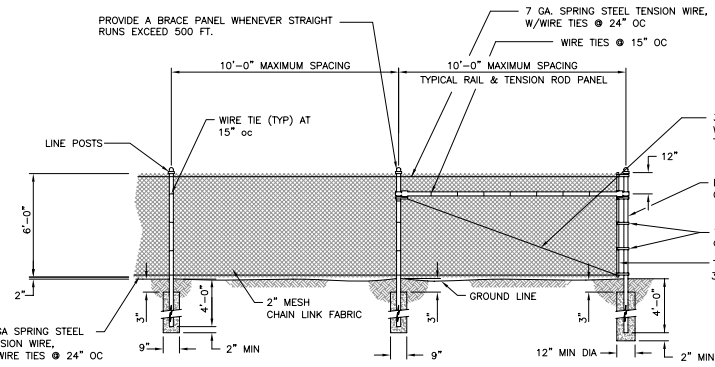
25
C-09
TYPICAL DISCHARGE LINE CLEANOUT
NOT TO SCALE

SEE C-16 FOR REVISED DETAILS.
DELETED PER FIELD CHANGE FC009.

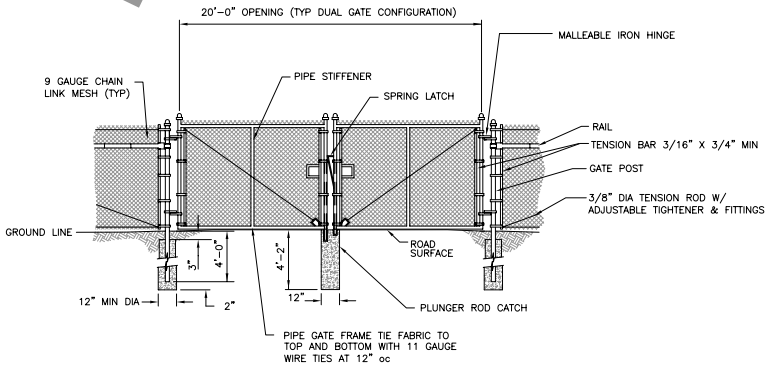


25
C-08
25
C-09
PIEZOMETER DETAIL
NOT TO SCALE
(TYPICAL FOR PIEZOMETERS PZ-1 THROUGH PZ-14)

NOTE:
1. ACTUAL DEPTH OF WELLS AND LENGTHS OF
SCREEN VARIES DEPENDING ON FIELD
CONDITIONS. SEE FIELD BORING LOGS FOR
SPECIFICS.



28
C-06
28
C-07
TYPICAL FENCE ELEVATION DETAIL
NOT TO SCALE



29
C-08
29
C-07
TYPICAL ENTRANCE GATE DETAIL
NOT TO SCALE

Job No. 440798	Issue Certification for	Designed EMB/TF	Drawn MAB	Checked JSP	Reviewed SA	Approved LCA	Reg. No. 04/438	Date 04/01/2006	Rev	Date	Description
	Record Drawing Purpose								2	3/05	RECORD DRAWING
									1	8/03	MODIFIED WARNING SIGN AND VENT PIPE
									0	5/03	ISSUED FOR BIDDING
											TF
											EWI
											By

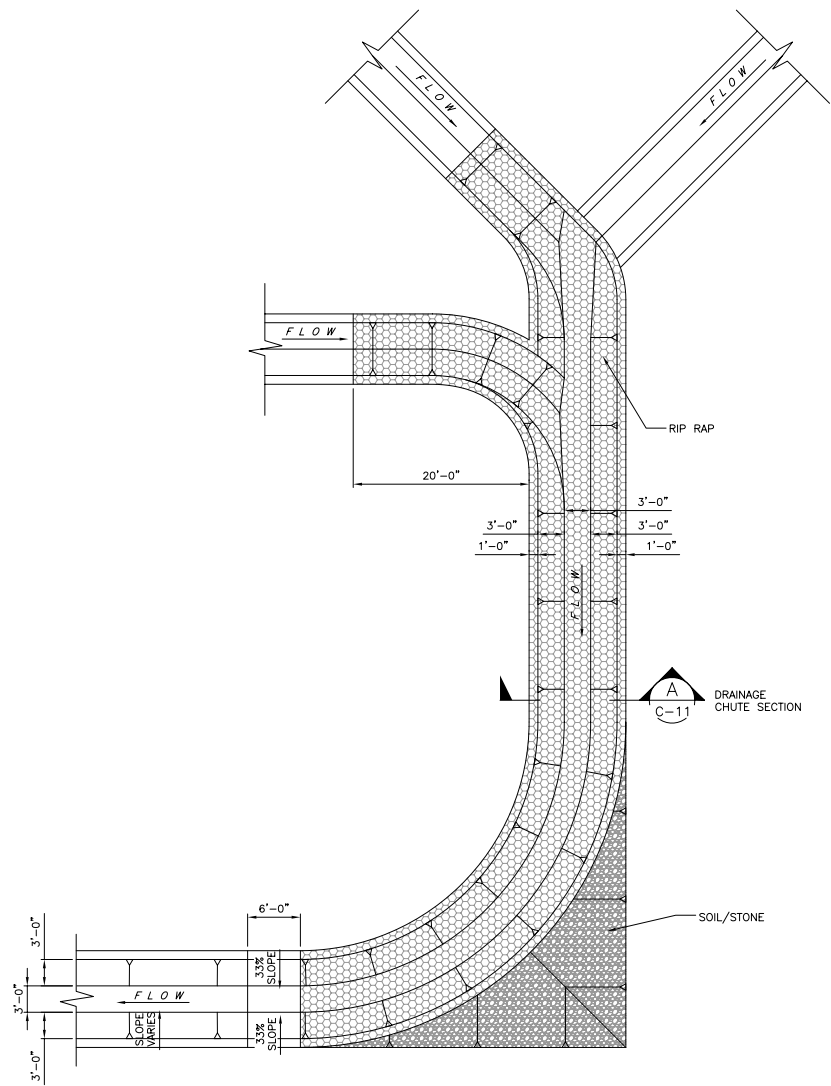
ALLTIFT LANDFILL/RAMCO STEEL SITE
REMEDIATION CONSTRUCTION

SECTIONS AND DETAILS

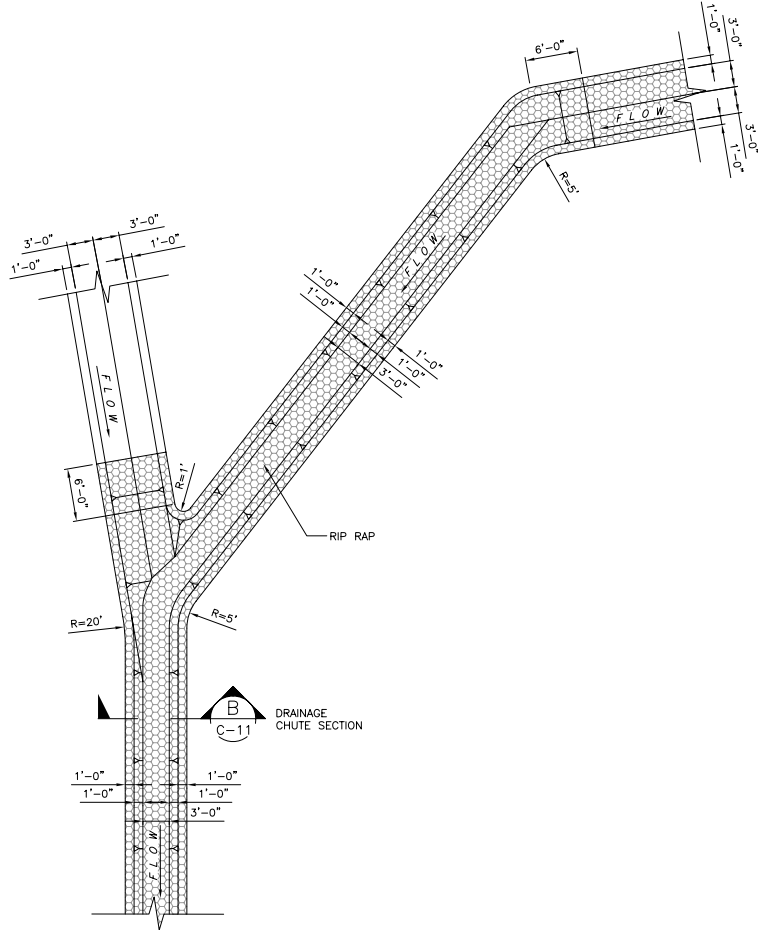
DRAWING NO.
C-13

REV.
2

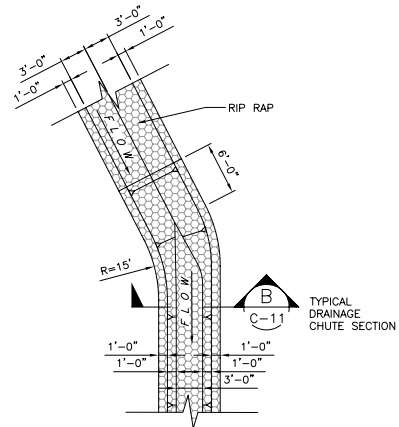
RECORD DRAWING



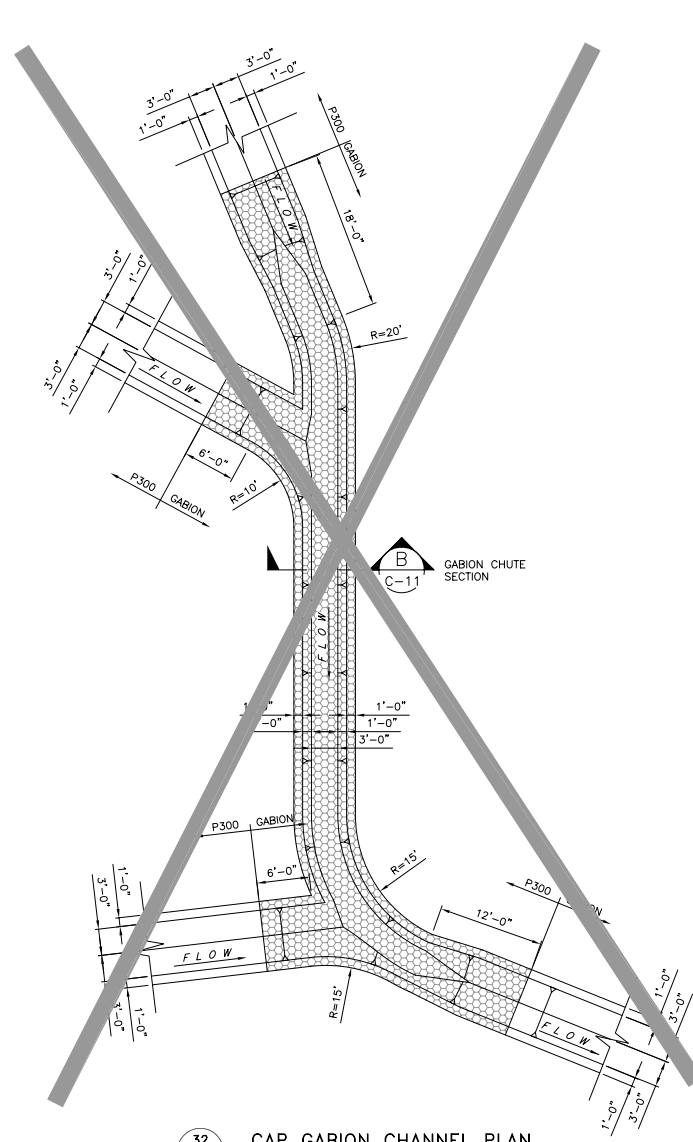
30 EAST SIDE DRAINAGE CHUTE PLAN
C-09 NOT TO SCALE



31 SOUTH SIDE CAP DRAINAGE CHUTE PLAN
C-07 NOT TO SCALE



33 WEST SIDE CAP DRAINAGE CHUTE PLAN
C-07 NOT TO SCALE



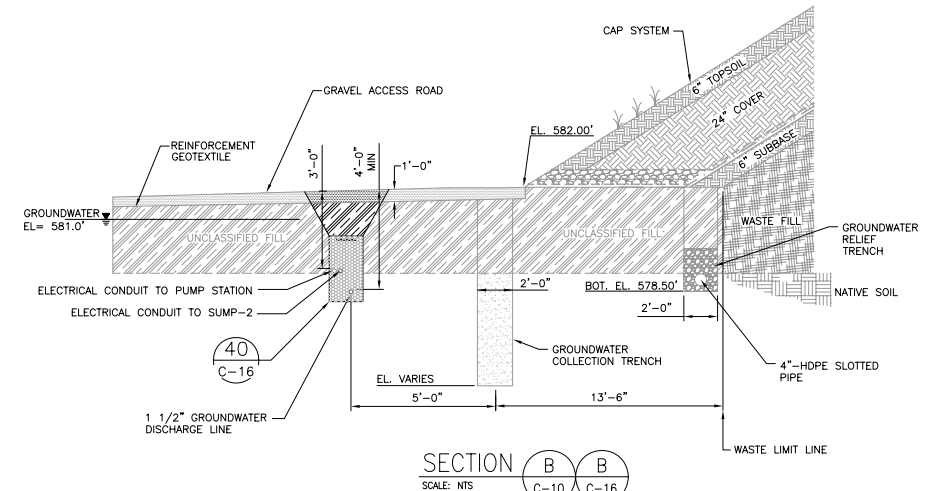
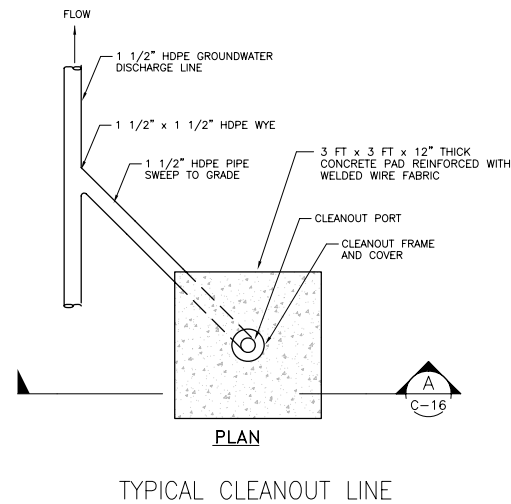
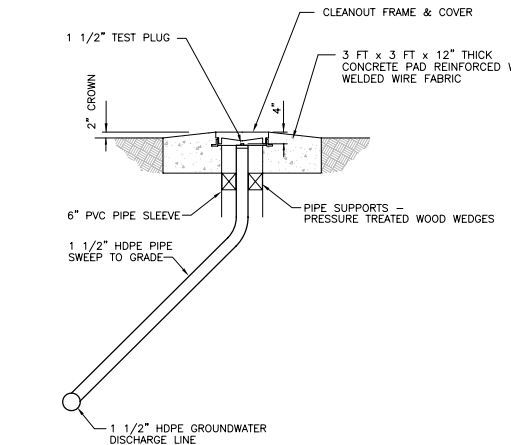
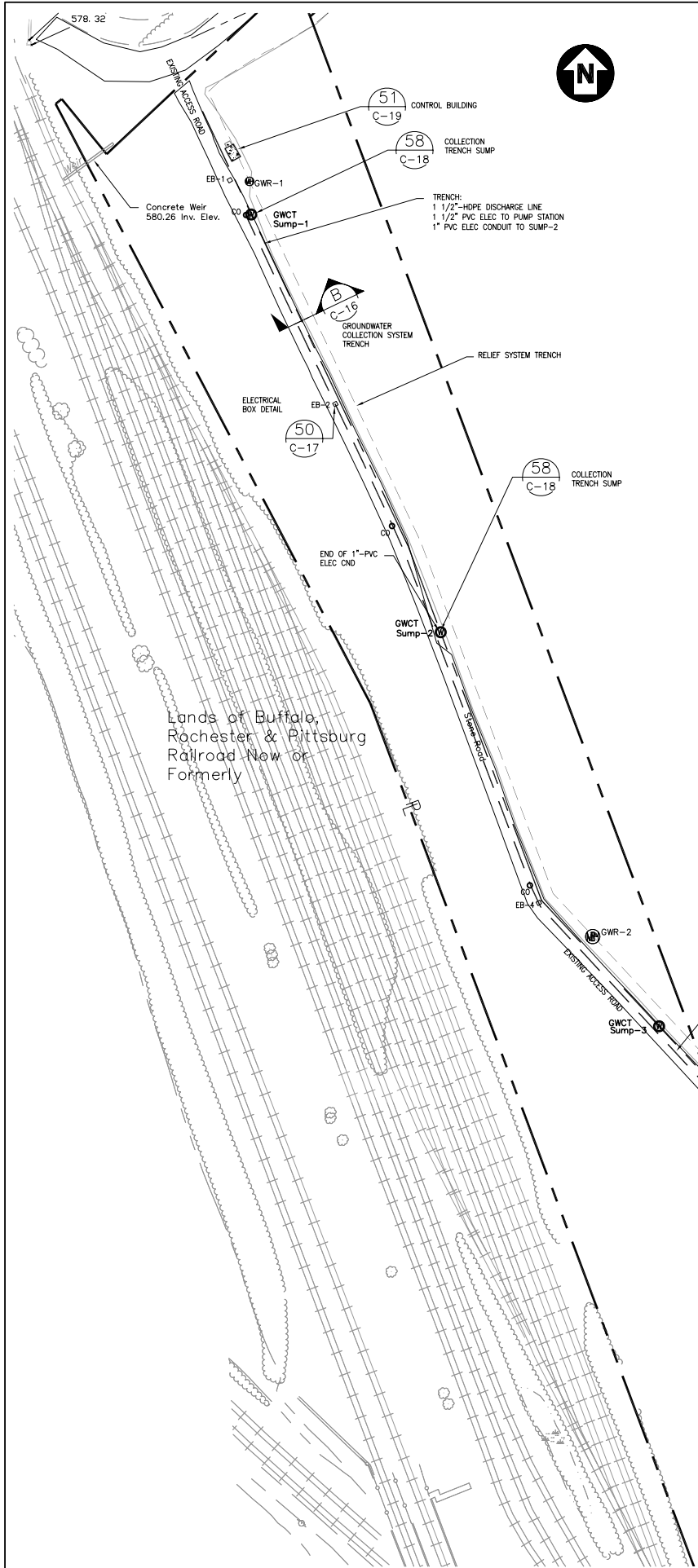
32 CAP GABION CHANNEL PLAN
C-7 NOT TO SCALE

DELETED PER FIELD CHANGE FC010 AND/OR FC015..

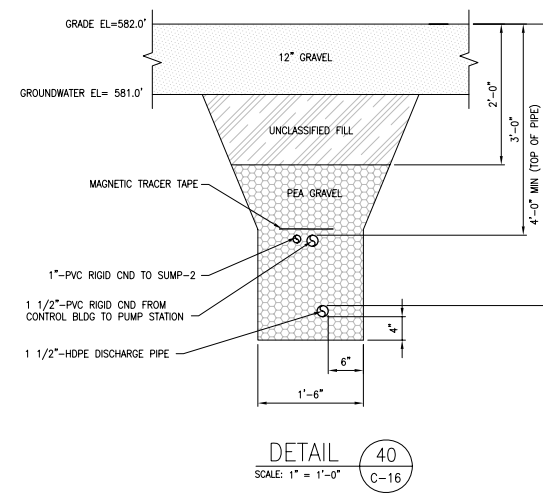
RECORD DRAWING

DRAWING NO. C-14	ALLTFT LANDFILL/RAMCO STEEL SITE REMEDIATION CONSTRUCTION	Honeywell HONEYWELL MORRISTOWN, NEW JERSEY	PARSONS 100 LAWRENCE HILL ROAD, SUITE 100 MORRISTOWN, NJ 07960 TEL: 973-837-1100 FAX: 973-837-1101	Issue Certification for Record Drawing Purpose		Job No. 440788							
				Designed TF	Drawn MAB	Checked JSP	Reviewed SA	Approved LCA	Reg. No. 047438	Date APRIL 2006	1 0 1	3/06 5/03 5/03	RECORD DRAWING ISSUED FOR BIDDING
REV. 1												By	

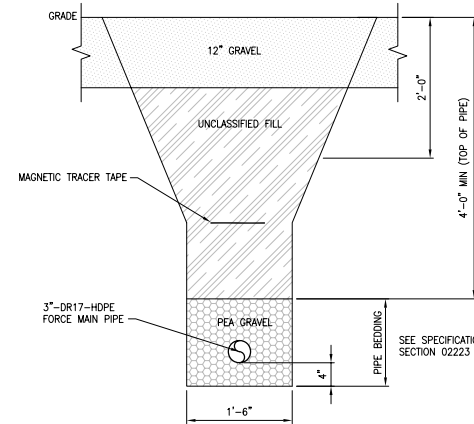
DRAWING NO. C-15	ALLTET LANDFILL/RANCO, HDPE SITE REMEDIATION CONSTRUCTION	 HONEYWELL MORRISTOWN, NEW JERSEY  PARSONS 100 JEROME AVE., SUITE 104 NEW JERSEY, N.J. 07071 TEL: 908-261-2000 FAX: 908-261-2004 WWW.PARSONS.COM	Issue Certification for Record Drawing Purposes	Job No. <u>440788</u>					
	SECTIONS AND DETAILS		Designed TF						
REV. 1			Drawn MAB	Checked JSP	Revised SA	1	3/06	TCA	
			Approved TCA	Reg. No. 047438	0	5/03	ISSUED FOR BIDDING	EWB	
			Date	APRIL 2006	Rev	Date	Description	By	



SECTION B
SCALE: NTS
C-10 C-16



DETAIL 40
SCALE: 1\"/>



SECTION D
SCALE: NOT TO SCALE
C-16

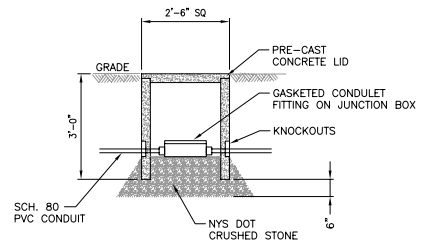
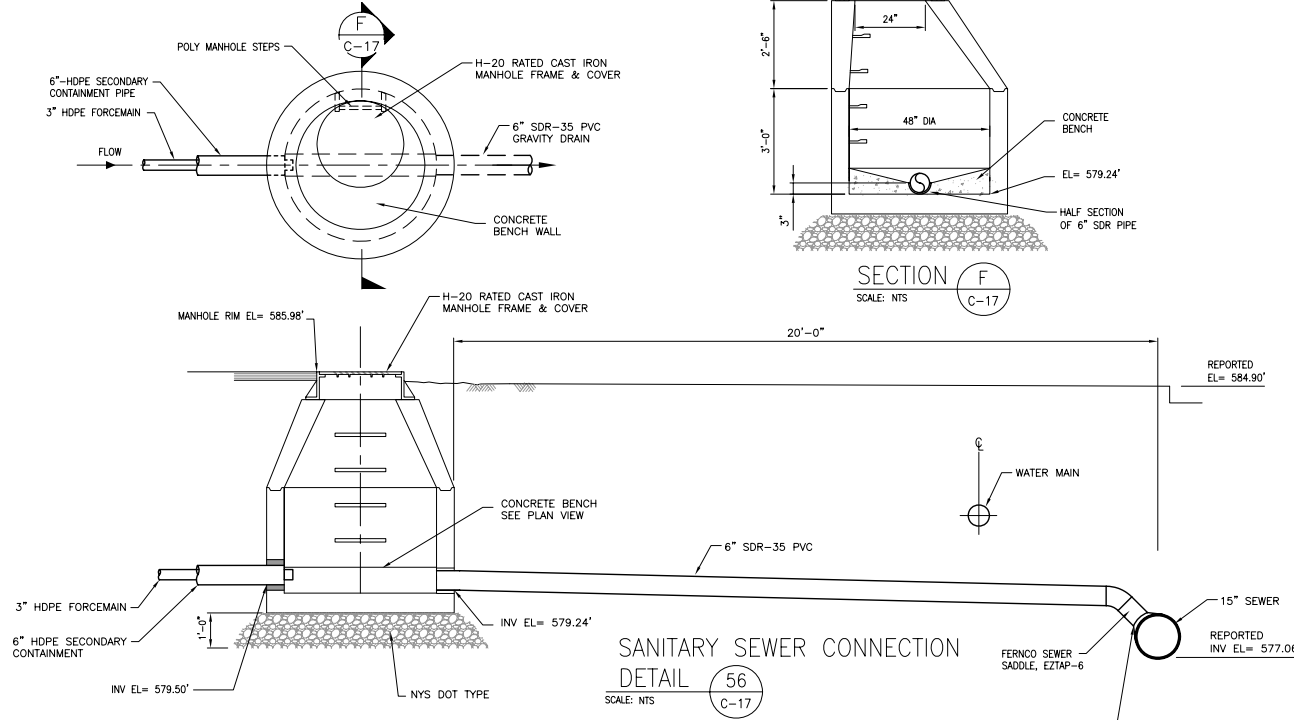
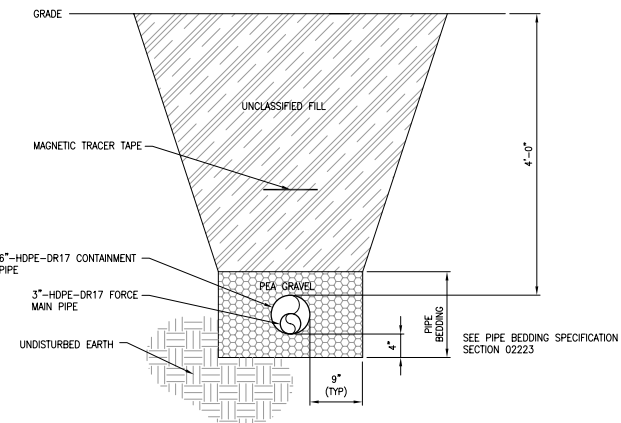
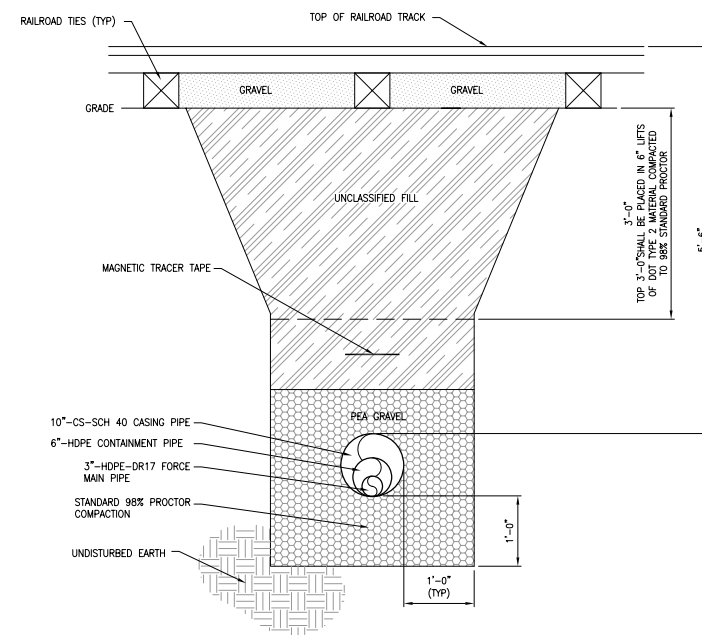
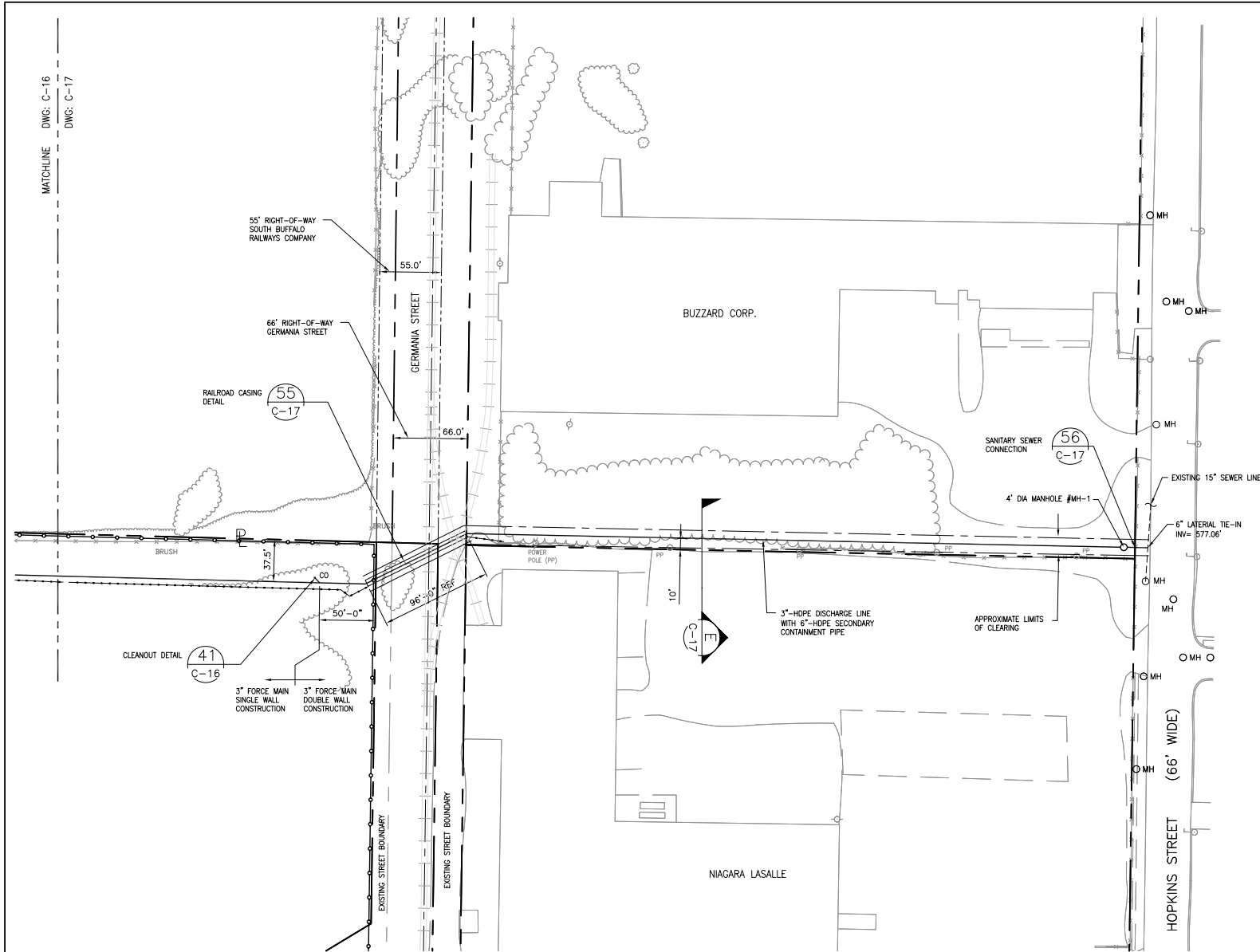
LEGEND
— P — PROPERTY LINE

NOTES:
1. SEE MATERIAL LIST ON C-18.

50 25 0 50 100
SCALE: 1\"/>

RECORD DRAWING

Job No. 440788	Designed JCS	Drawn JCS	Checked JCS	Reviewed JCS	Approved JCS	Reg. No. 047438	Date 04/01/2006	Rev	Description
Issue: Construction/Record Drawing Purpose									
Honeywell HONEYWELL MORRISTOWN, NEW JERSEY									
ALLTIT LANDFILL/RAMCO STEEL SITE REMEDIATION CONSTRUCTION PUMP DISCHARGE TO SEWER SITE PLAN AND DETAILS									
DRAWING NO. C-16									REV. 2

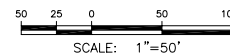


LEGEND

— P — PROPERTY LINE

— DISCHARGE PIPE

— CHAINLINK FENCE



RECORD DRAWING

Job No. 440788	Issue Certification for	Record Drawing Purpose	By
Designed JCS	Drawn JCS	Reviewed JCS	TCA
Checked JCS	Approved JCS	Reg. No. 047438	WES
Date 04/18/05	Rev	Date	Description
2	3/05	1	RECORD DRAWING
1	7/21/05	0	TRENCH DETAIL REVISIONS
0	7/18/05	0	ISSUED FOR CONSTRUCTION

PARSONS

280 ELWOOD DAVIS ROAD
SUITE 200
MORRISTOWN, NJ 07960
PHONE (973) 451-5600
FAX (973) 451-5670

Honeywell

HONEYWELL
MORRISTOWN, NEW JERSEY

ALLTFT LANDFILL/RAMCO STEEL SITE
REMEDIATION CONSTRUCTION

PUMP DISCHARGE TO SEWER
PARTIAL SITE PLAN AND DETAILS

DRAWING NO.
C-17

REV.
2



MATERIAL LIST					
DESCRIPTION	QTY	MANUFACTURER	MODEL No.	TYPE FUNCTION	
WELL PUMP (COLLECTION SUMP 1 & 2)	2	GRUNDOS-SO	5 5003A-30	3" SUBMERSIBLE WELL PUMP, 7 GPM AT 58FT TDS /4.4 AT 112FT TDS, 1PH, 200-240V, M3 MOTOR, 4.9 FLA: STAINLESS STEEL PUMP HOUSING, MULTI-STAGE POLYETHYLENE IMPELLER, 1" NPT CONNECTION	
T108 1" CHECK VALVE	2	WATTS B5300T	106287	CLASS 150, THREADED ENDS, BRONZE BODY, TEFLON, SCREWED CAP	
1" GATE VALVE	2	NIBCO	T154A	CLASS 200, THREADED ENDS, BRONZED BODY, BRONZE SOLID WEDGE, THREADED BONNET	
DISCHARGE SLUMP PUMP, T103 (RELIEF TRENCH	2	GRUNDOS KP150	96001517	VERTICAL STAINLESS STEEL SUBMERSIBLE PUMP, SECTION SLURRY, LIFTING HANDLE, 1.5W, 0L FILLED MOTOR, 2.9 FLA, SEMI-OPEN IMPELLER, PASS 10 MM SOLID, 25 GPM AT 10FT TDS	
T103 1 1/2" CHECK VALVE	1	NIBCO	T433B	CLASS 150, THREADED ENDS, BRONZE BODY, BRONZE DISC, SCREWED CAP	
T103 1 1/2" GATE VALVE	1	NIBCO	T154A	CLASS 200, THREADED ENDS, BRONZED BODY, BRONZE SOLID WEDGE, THREADED BONNET	
3/4" AIR VENT VALVE	1	HONEYWELL	EA 79A1004 INDUSTRIAL AIR BREAK	BRASS SHEL WITH REMOVABLE, FLOATE VALVE FOR SERVING 3/4" NPT CONNECTION	
T103 1" PITLESS ADAPTOR	2	MIDWEST MANUFACTURING	LD-S-10-N	CAST FROM RED BRASS, VENT O-RING, MATING FEMALE FUNNEL TOP AND MALE TAPERED SLEEVE	
1 1/2" FLOW METER	1	DANIEL J. JERMAN CO. 150 MAGNETIC DRIVE PROPELLER METER	DJL 150 WITH REMOTE BATTERY POWERED LOG READOUT	EPOXY COATED BODY INTEGRAL STRAINING, MAGNETIC COUPLED REGISTERED ASSEMBLY PULS. OUTPUT 1 / 12" STRAIGHT THREADED ENDS, 79000-110 MITE TOTALIZER, NEMA 4 WITH TEN YEAR LITHIUM BATTERY	
HEAT TRACE	1	GARDIAN	W51-18P	SELF-REGULATING PIPE HEATING CABLE WITH 30' LEADS AND PLUG.	
STAINLESS STEEL PIPE (SST) TP-3	AS REQ'D		SCHEDULE 40	ASTM A-312 TYPE 304L, JOINTS SHALL BE NPT WITH SEALS AND COUPLINGS.	
1-93 PRE-CAST MANHOLE #M#-1	1	KISTNER PRECAST	4" DIA SANITARY MANHOLE (SEE DETAILS)	REINFORCED CONCRETE CONFORMING TO ASTM C-475, 4,000 PSI CONCRETE, CONCENTRIC TOP WITH 24" DIA OPENING, MONTHLONG FLAT BASE WITH 6" SLAB, A.A.S.H.T.O. HS-20-44 LOAD RATING, POLY STEPS 12"OC	
1-24 MH FRAME AND COVER	1	MUNICIPAL CASTINGS, INC.	326A	CAST IRON, HOT DEWY DUTY, STRAIGHT SIZED MANHOLE FRAME AND PARABOLIC COVERS, A.A.S.H.T.O. HS-20-44 LOAD RATING	
T101 CLEAN-OUT COVER	AS REQ'D	SYRACUSE CASTINGS	PATTERN #1556 FRAME AND COVER	CAST IRON, HOT DEWY DUTY, FRAME FLANGED FOR CASTING IN CONCRETE APRON, 8 1/2" INTERIOR DIAMETER	
BURIED VALVE BOX	2	HANDLEY INDUSTRIES, INC.	1" MODEL MULTI-BOX	ABS PLASTIC, 4" DIA, MEETS DOT 192, 181 ADJUSTABLE THROAT, 6" VALVE BOX, LOCKABLE LID	
#93 PRE-CAST PUMP STATION	1	KISTNER PRECAST	4" DIA SANITARY MANHOLE (SEE DETAILS)	REINFORCED CONCRETE CONFORMING TO ASTM C475, 4,000 PSI CONCRETE, FLAT TOP WITH 30" SQUARE ALUMINUM HATCH, MONTHLONG FLOOR LANGED BASE WITH 6" SLAB, A.A.S.H.T.O. HS-20-44 LOAD RATING, POLY STEPS AT 12"OC	
SUB #94 ALUMINUM HATCH	1	SYRACUSE CASTINGS	EC-4HD 30"x30"	60616 GRADE ALUMINUM ALLOYS, GRAD5086, 1/4" DIAMMND PLATE HS-20 RATED, 1 1/2" ANCHOR FRAME, HOLD OPEN ARM, LIFT SPRING ASSORT, FLUSH LIFT HANDLE	
1 1/2" HOPE PIPE	AS REQ'D	DRISCO PIPE	DRISCO PLEX 4100 SERIES	PE3408 HOPE, SDR-11, 130 PSI, HEAT FUSED JOINTS, HYDRO TEST TO 100 PSI	
3" HOPE PIPE	AS REQ'D	DRISCO PIPE	DRISCO PLEX 4100 SERIES	PE3408 HOPE, SDR-11, 130 PSI, HEAT FUSED JOINTS, HYDRO TEST TO 100 PSI	
6" HOPE PIPE	AS REQ'D	DRISCO PIPE	DRISCO PLEX 4100 SERIES	PE3408 HOPE, SDR-11, 130 PSI, HEAT FUSED JOINTS, HYDRO TEST TO 100 PSI	
SEWER PIPE SADDLE	1	FERNO	EZT14PE	CAST IRON HUB WITH NEOPRENE GASKET, CAST IRON NIPPLE 12" LONG, 5/8" STAMPS	
6" PVC SEWER PIPE	AS REQ'D	NATIONAL PIPE AND PLASTICS, INC.	SDR-35 GASKETED PVC SEWER PIPE	ASTM D 3034 WITH INTEGRAL BELT GASKETED JOINTS	

[illegible]

Job No. 440788
Designed WGS
Drawn CLW
Checked JSP
Reviewed SA
Approved TCA
Reg. No. 047438
Date APRIL 2006

Issue Certification for
Record Drawing Purposes

PARSONS

290 ELWOOD DAVIS ROAD
SUITE 312
LIVERPOOL, N.Y. 13088
PHONE: (315) 451-9560
FAX: (315) 451-9570

Honeywell

HONEYWELL
MORRISTOWN, NEW JERSEY

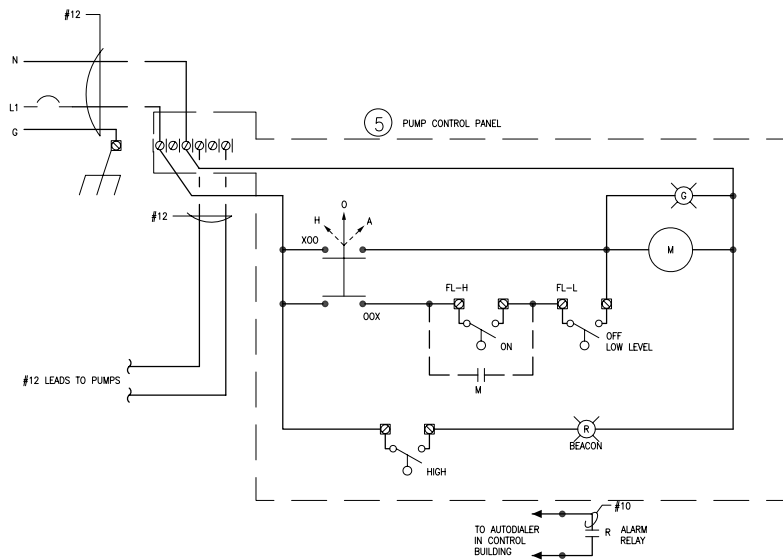
ALLTIFT LANDFILL/RAMCO STEEL SITE
REMEDIAION CONSTRUCTION

PUMP DISCHARGE TO SEWER SYSTEM P&ID AND DETAILS

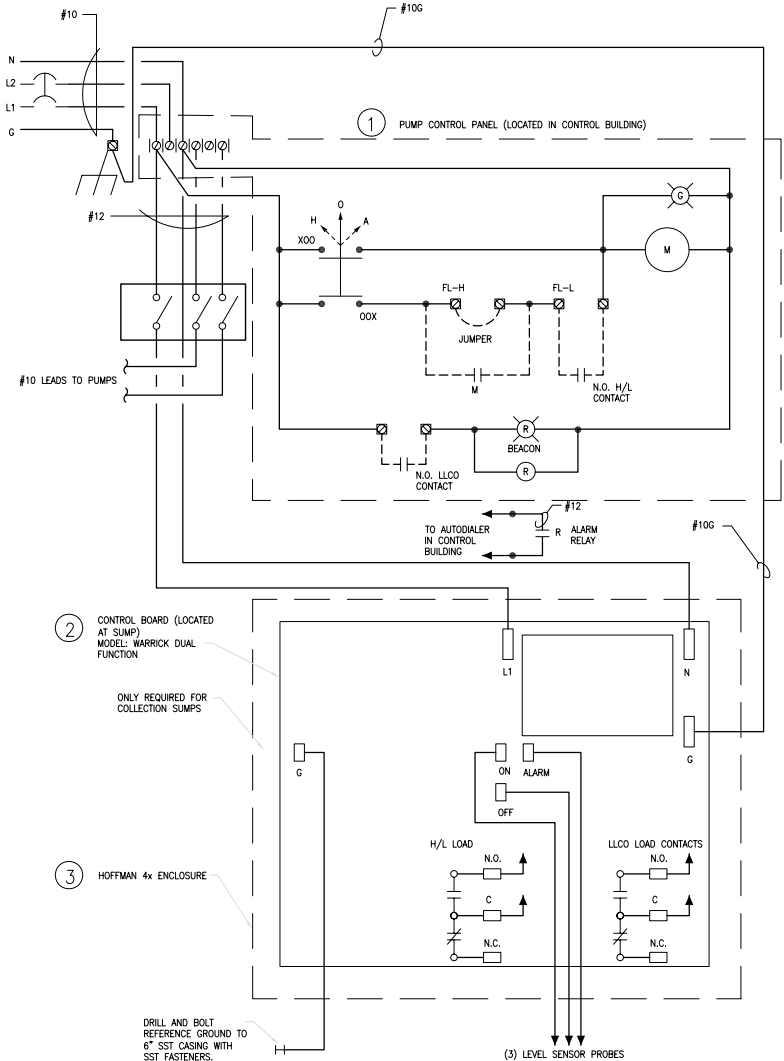
DRAWING NO.
C-18

REV.
1

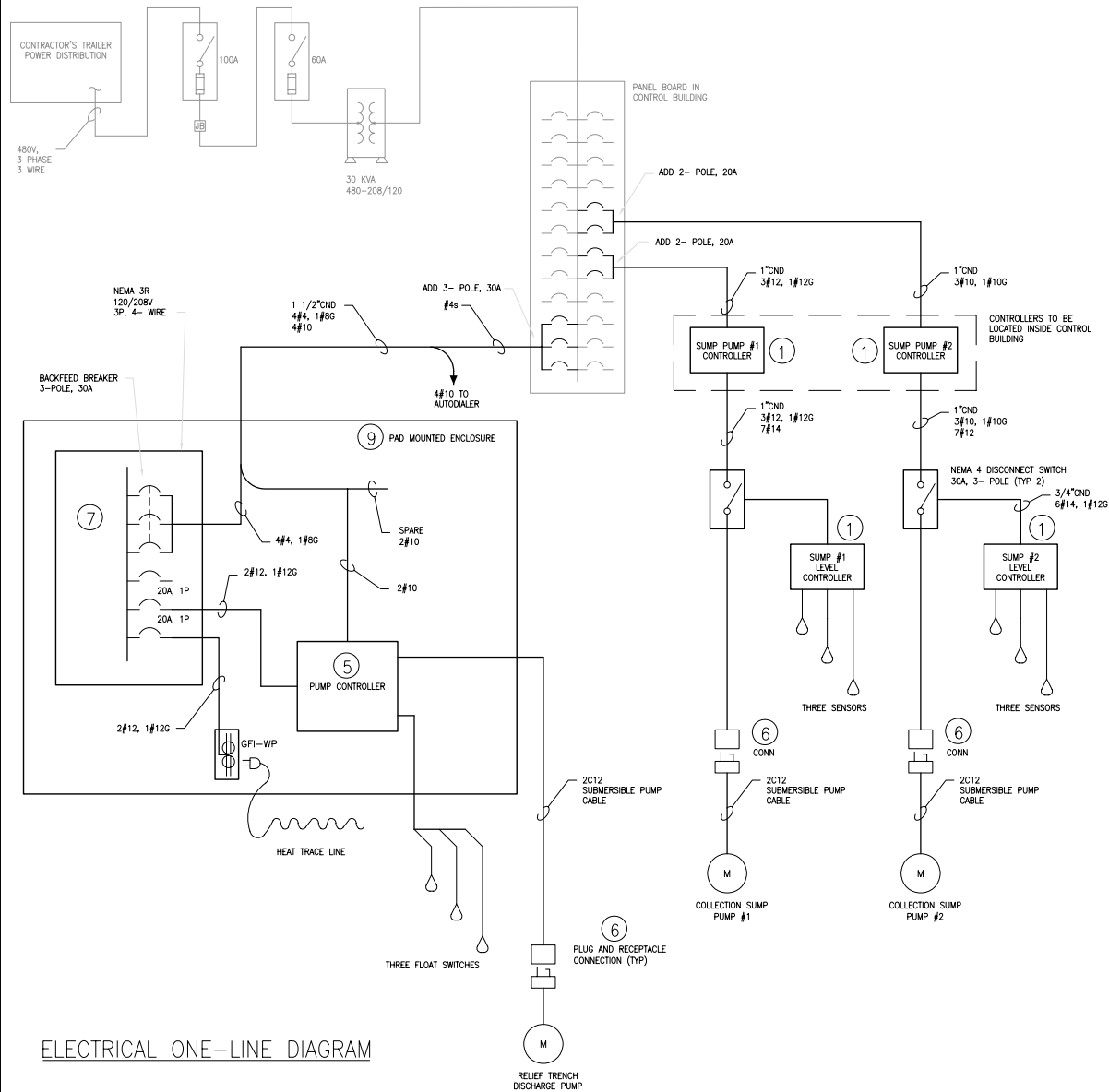
RECORD DRAWING



PUMP STATION CONTROL PANEL AND LEVEL CONTROL SCHEMATIC



SUMP CONTROL PANEL AND LEVEL CONTROL SCHEMATIC



ELECTRICAL ONE-LINE DIAGRAM

LEGEND:
FIELD WIRING

ABBREVIATIONS:
CIR
CND
DISC
EBOX
PVC
RIGD
SNCR
SS or SST

ELECTRICAL MATERIAL LIST				
ITEM NO.	DESCRIPTION	QTY	MANUFACTURER MODEL	MODEL No. TYPE OF FUNCTION
1	COLLECTION SUMP PUMP CONTROL PANEL	2	SJE RHOMBUS CONTROLS MODEL 112	MODEL 1121W100X 1A (208/240V, NO FLOATS) SINGLE PUMP CONTROL; RATED FOR 120/208/240V, 1-PH; ALARM TEST SWITCH, RED LIGHT, NO HORN, ALARM RELAY; NEMA 4X ENCLOSURE; H-O-A SWITCH; GREEN RUN LIGHT; 208/240V CONTACTOR; 0-7 FLA; PUMP DOWN APPLICATION; NO FLOATS;
2	T108 WELL LEVEL CONTROLLER	2 + 1 SPARE	WARRICK SERIES DF	DF-D1C0 10 03 C CIRCUIT BOARD MICROPROCESSOR 50K OHM SENSITIVITY; 120VOLT; SCREW MNT.; OPEN; 10 SEC. DELAY ON INCREASING LEVEL; 3 SEC. DELAY ON DECREASING LEVEL; DIRTY PROBE DETECTION W/ 60 SEC. TIMEOUT;
3	T108 LEVEL ENCLOSURE	2	HOFFMAN ENCLOSURES	Q LINE Q181813ABE 6"X6"X4" ABS NEMA 4X ENCLOSURE; OPAQUE COVER; S.S. SCREW FASTENERS;
4	T108 SENSOR PROBES	6	WARRICK SERIES 3Y	3Y1C3 316 STAINLESS STEEL PROBE W/ PVC SHIELD CASING; 20 FEET OF SUSPENSION WIRE;
5	DISCHARGE PUMP CONTROL PANEL	1	SJE RHOMBUS CONTROLS MODEL 112	MODEL 1121W100XH SINGLE PUMP CONTROL; RATED FOR 120V, 1-PHASE; ALARM TEST SWITCH, THREE LEVEL FLOATS; NEMA 4X ENCLOSURE; H-O-A SWITCH; GREEN RUN LIGHT; 120/208/240V CONTACTOR; 7-15 FLA; PUMP DOWN APPLICATION; ALARM RELAY; ALARM FLOAT;
6	220V TWIST LOCK CONNECTOR	3	HUBBELL WIRING DEVICES	HBL2310SW WEATHER-PROOF, 20A, 2 POLE 3-WIRE GROUNDING BOX MOUNTED RECEPTACLE AND MATCHING CORD PLUS; MOUNT IN HUBBELL ANGLE WALL BOX;
7	CIRCUIT BREAKER PANEL	1	SQUARE D	Q0312L125G 12 CIRCUIT, 125 MAIN LUGS 65,000 RMS SYM. AMPS, 30 A BACKFEED MAIN BREAKER TYPE Q0330VH 22,000 RMS SYM. AMPS, PK1MB RETAINER ON MAIN, BRANCH BREAKERS TYPE Q0, 10,000 RMS SYM. AMPS, NEUTRAL AND GROUND BARS, INDOOR COVER W/ DOOR;
8	ELECTRICAL PULL BOX	7	KISTNER PRECAST	RECTANGULAR PULLBOX 30" X 30" X 36" REINFORCED CONCRETE CONFORMING TO ASTM C475, 4000 PSI CONCRETE, FLAT CONCRETE TOP, NO BASE SLAB REQUIRED; KNOCKOUTS ON EACH WALL;
9	PAD MOUNTED ELECTRICAL ENCLOSURE	1	DOB UNLIMITED	TR-336XL NEMA 3R ENCLOSURE, FRONT AND REAR DOORS, THREE-POINT LATCHES WITH PADLOCKING HANDLES, ALUMINUM CONSTRUCTION, NOMINAL 39"H X 27"D X 25"W, 110V FAN AND THERMOSTAT;
10	DISCONNECT SWITCH	2	SQUARE D	HU3610DS NEMA 4, 3-POLE HEAVY DUTY SAFETY SWITCH

RECORD DRAWING

Job No. 440788	Issue Certification for	Record Drawing Purpose	By
Designed JCS	Drawn JCS	Checked JCS	TCA
Reviewed JCS	Approved JCS	Reg. No. 047438	WBS
Date 04/18/05	Rev 0	Date 04/18/05	By
Description			
2 3/06 RECORD DRAWING			
1 17/21/05 GENERAL REVISION			
0 17/18/05 ISSUED FOR CONSTRUCTION			

PARSONS

280 ELWOOD DAWS ROAD
SUITE 200
MORRISTOWN, NJ 07960
PHONE (973) 451-5660
FAX (973) 451-5670

Honeywell

HONEYWELL
MORRISTOWN, NEW JERSEY

ALLTIT LANDFILL/RAMCO STEEL SITE
REMEDIATION CONSTRUCTION

PUMP DISCHARGE TO SEWER
ELECTRICAL SCHEMATIC WIRING DIAGRAM
AND DETAILS

DRAWING NO. E-01	REV. 2
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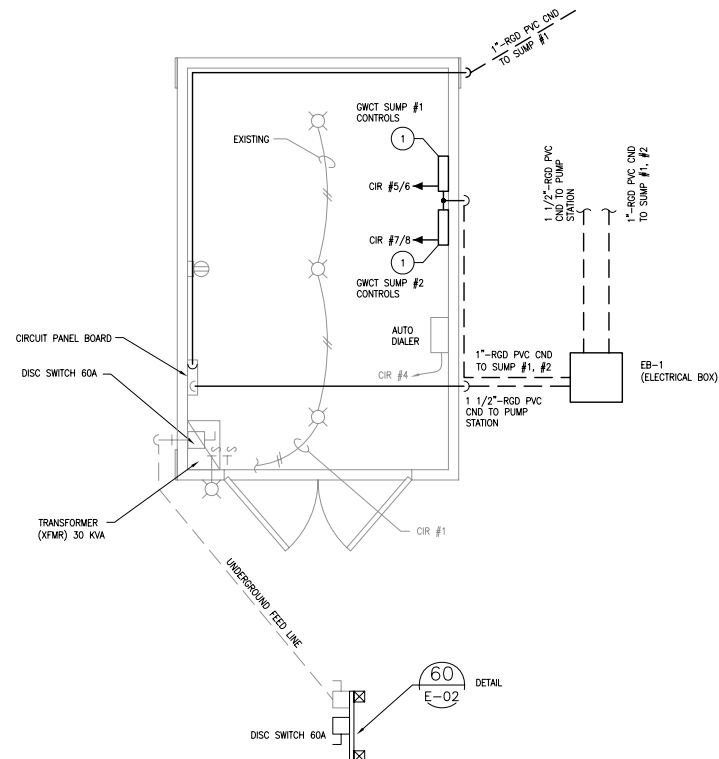
COLLECTION SUMP ELECTRICAL

DETAIL

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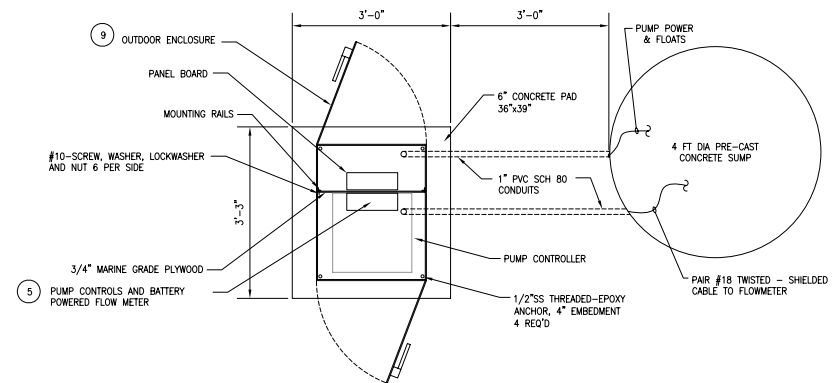
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C-18 E-02

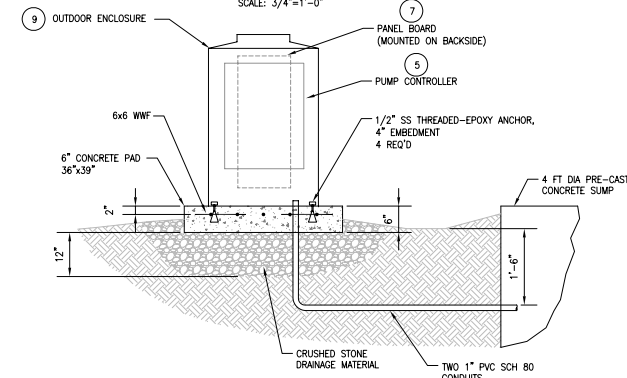


SHED ELECTRICAL PLAN

NOT TO SCALE



PLAN VIEW
SCALE: 3/4"=1'-0"



ELEVATION
SCALE: 3/4"=1'-0"

OUTDOOR ENCLOSURE ASSEMBLY FOR DISCHARGE PUMP STATION

ABBREVIATIONS:

CIR	CIRCUIT
CND	CONDUIT
DISC	DISCONNECT
EB	ELECTRICAL BOX
PVC	POLY VINYL CHLORIDE
RGD	RIGID
SNSR	SENSOR
SS or SST	STAINLESS STEEL

ELECTRICAL MATERIAL LIST					
ITEM NO.	DESCRIPTION	QTY	MANUFACTURER MODEL	MODEL No.	TYPE OF FUNCTION
1	COLLECTION SUMP PUMP CONTROL PANEL	2	SJE RHOMBUS CONTROLS MODEL 112	MODEL 1121W100X 1A (208/240V, NO FLOATS)	SINGLE PUMP CONTROL; RATED FOR 120/208/240V, 1-PH; ALARM TEST SWITCH, RED LIGHT, NO HORN; ALARM RELAY; NEMA 4X ENCLOSURE; H-O SWITCH; GREEN RUN LIGHT; 208/240V CONTACTOR; 0-7 FLA; PUMP DOWN APPLICATION; NO FLOATS.
2	T108 WELL LEVEL CONTROLLER	2 + 1 SPARE	WARRICK SERIES DF	DF-D1C0 10 03 C	CIRCUIT BOARD MICROPROCESSOR 50K OHM SENSITIVITY; 120VOLT;SCREW MOUNT; OPEN; 10 SEC. DELAY ON INCREASING LEVEL; 3 SEC. DELAY ON DECREASING LEVEL; DIRTY PROBE DETECTION W/ 60 SEC. TIMEOUT.
3	T108 LEVEL ENCLOSURE	2	HOFFMAN ENCLOSURES	Q LINE Q181813ABE	6"X6"X4" ABS NEMA 4X ENCLOSURE; OPAQUE COVER; 60. SECREW FASTENER
4	T108 SENSOR PROBES	6	WARRICK SERIES JY	3Y1C3	316 STAINLESS STEEL PROBE W/ PVC SHIELD CASING; 20. FEET OF SUSPENSION WIRE.
5	DISCHARGE PUMP CONTROL PANEL	1	SJE RHOMBUS CONTROLS MODEL 112	MODEL 1121W100KH	SINGLE PUMP CONTROL; RATED FOR 120V, 1-PHASE; ALARM TEST SWITCH; THREE LEVEL FLOATS; NEMA 4X ENCLOSURE; H-O-A SWITCH; GREEN RUN LIGHT; 120/208/240V CONTACTOR; 7-15 FLA; PUMP DOWN APPLICATION; ALARM RELAY; ALARM FLOAT.
6	220V TWIN LOCK CONNECTOR	3	HUBBELL WIRING DEVICES	HBL2310SW	WEATHER-PROOF, 20A, 2 POLE 3-WIRE GROUNDING BOX MOUNTED RECEPTACLE AND MATCHING CORD PLUG, MOUNT IN HUBBELL WALL MOUNT BOX.
7	CIRCUIT BREAKER PANEL	1	SQUARE D	Q03S121250	12 CIRCUIT, 125 MAIN LUGS 85,000 RMS SYM. AMPS, 30 A BACKFEED MAIN BREAKER TYPE Q0330W1 22,000 RMS SYM. AMPS, AXP18B RETAINER ON MAIN BRANCH BREAKERS TYPE Q0, 10,000 RMS SYM. AMPS, NEUTRAL AND GROUND BARS, INDOOR COVER W/ DOOR.
8	ELECTRICAL PULL BOX	7	KISTNER PRECAST	RECTANGULAR PULLBOX 30" x 30" x 36"	REINFORCED CONCRETE CONFORMING TO ASTM C475, 4000 PSI CONCRETE PULL CONCRETE TOP, NO BASE SLAB REQUIRED; KNOCKOUTS ON EACH WALL.
9	PAD MOUNTED ELECTRICAL ENCLOSURE	1	DOB UNLIMITED	TR-336XL	NEMA 3R ENCLOSURE, FRONT AND REAR DOORS, THREE-POINT LATCHES W/ PADLOCKING HANDLES, ALUMINUM CONSTRUCTION, NOMINAL 39" H x 27" D x 25", 110V FAN AND THERMOSTAT.
10	DISCONNECT SWITCH	2	SQUARE D	HJ361DS	NEMA 4, 3-POLE HONEY DUTY SAFETY SWITCH

RECORD DRAWING

DRAWING NO.	E-02
REV	2
ALLTUFF LANDFILL/RAMCO STEEL SITE REMEDATION CONSTRUCTION PUMP DISCHARGE TO SEWER ELECTRICAL SECTIONS AND DETAILS	
 HONEYWELL MORRISTOWN, NEW JERSEY  PARSONS	
280 ELWOOD DAVIS ROAD LUTHERVILLE, N.Y. 13088 TEL (518) 461-4400 FAX (518) 461-4970	
Issue Certification for Record Drawing purposes	
Job No. _440788_	Designed WSS _____
Drawn _SEH_	Checked _____
Reviewed TCA _____	Approved TCA _____
Reg. No. 047439	Issued FOR CONSTRUCTION
APRIL 2006	Rev. 1/20
Discard/In	TDR
Bu	MS
	CADD REVISION
	TOA

APPENDIX B

PHOTOGRAPHIC DOCUMENTATION