



FACT SHEET

Voluntary Cleanup Program

Receive Site Fact Sheets by *Email*. See "For More Information" to Learn How.

Site Name: Bloody Brook
DEC Site #: V00501
Address: Salina, NY 13088

Have questions?
See
"Who to Contact"
Below

Cleanup Action to Begin at Voluntary Cleanup Site

Action is about to begin that will address the contamination related to the Bloody Brook site ("site") located in the Town of Salina, Onondaga County under New York State's Voluntary Cleanup Program. Please see the map for the site location.

Documents related to the cleanup of this site can be found at the location(s) identified below under "Where to Find Information."

The cleanup activities will be performed by Lockheed Martin Corporation ("volunteer(s)") with oversight provided by the New York State Department of Environmental Conservation (NYSDEC).

Highlights of the Upcoming Cleanup Activities

The goal of the cleanup action for the site is to achieve cleanup levels that protect public health and the environment. The cleanup action for the site includes:

1. A remedial design program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program.
2. Excavation and off-site disposal of contaminated soil and sediment. Approximately 20,100 cubic yards of soil and 1,700 cubic yards of sediment are estimated to be removed from the site. Clean fill will be brought in to replace the excavated soil and sediment.
3. A site cover will be required to allow for current uses of the site.
4. A Site Management Plan is required to manage and monitor residual materials left buried at the site.

Next Steps

After completion of the cleanup activities by the volunteer, the volunteer will prepare a Final Engineering Report and submit it to NYSDEC. This document will describe the cleanup activities completed and certify that cleanup requirements have been achieved or will be achieved.

When NYSDEC is satisfied that cleanup requirements have been achieved or will be achieved for the site, it will approve the Final Engineering Report. NYSDEC will then issue the volunteer a release letter that provides a release from liability. This release letter would declare that the volunteer has met its obligations and that NYSDEC would not require the volunteer to perform additional

investigation or cleanup at the site, subject to certain conditions. The release letter would allow for the redevelopment of the site.

Background

Location: The Bloody Brook site is located in the Town of Salina and the Village of Liverpool in Onondaga County, New York.

Site Features: The Bloody Brook Site is an approximately 5,000-foot long stretch of the brook from the New York State Thruway to the Onondaga Lake Parkway. The main site features include the west and middle branches of the brook and brook sediments, the banks of the brook, floodplain soils, a wetland area, a wooded area, and soils associated with the former channel.

Current Zoning and Land Use: The land uses surrounding Bloody Brook include industrial, commercial and residential, consistent with applicable, current zoning. The surrounding area also contains railroad tracks, numerous roads and right-of-ways. The brook itself is not used commercially. Bloody Brook is a Class B stream (best use is contact recreation) from the mouth of the brook to its confluence with the West Branch of Bloody Brook, approximately 0.4 miles upstream from the mouth. Upstream of this confluence the West and Middle Branches of Bloody Brook are Class C streams (best use is fishing). The site is within the Bloody Brook Drainage District. The drainage district was formed to allow Onondaga County access to the brook to complete drainage improvements and maintain the drainage capacity of the brook.

Past Use of the Site: The site contamination is believed to have resulted from discharges to the West Branch of Bloody Brook from Electronics Park. General Electric owned this site between 1949 and 1993; thereafter it was transferred to Martin Marietta (predecessor to Lockheed Martin). General Electric used cadmium in the manufacturing of television picture tubes. The course of the brook channel was modified five times between 1944 and 1978. The modifications occurred as part of Thruway construction; construction of residential areas; construction of the former Lakeshore Drive-In Theater; and installation of new culverts for hydraulic improvements downstream of the former Lakeshore Drive-In Theater. Prior to 1938, the area was used for agriculture with some wooded areas and some residential homes. As per the Department's February 1997 "Final Decision and Response to Comments for the Electronics Park Facility", the final remedy implemented for the Electronics Park Facility included the continuation of the site-wide groundwater pump and treat system so as to preclude the off-site migration of groundwater. It also included storm sewer maintenance, to eliminate infiltration of groundwater into the storm sewers, and the removal of cadmium-impacted and PCB-impacted sediments within a 200-foot long culvert beneath the Thruway and from a 750-foot section in the West Branch of Bloody Brook south of the Thruway.

Site Geology and Hydrogeology: The site geology consists of a sand and silt mixture, underlain by dense clay. The clay elevation is relatively consistent across the site, while the sand and silt mixture fluctuates with the surface elevation. Within the location of the former brook channel, an organic peat layer exists with a thickness from approximately one inch to three feet.

Voluntary Cleanup Program: New York's Voluntary Cleanup Program (VCP) was developed to encourage private sector volunteers to investigate and clean up contaminated properties and return these sites to productive use. Once cleaned up, the properties may be redeveloped for commercial, industrial, residential or public use.

For more information about the VCP, visit: <http://www.dec.ny.gov/chemical/8442.html>

FOR MORE INFORMATION

Where to Find Information

Project documents are available at the following location(s) to help the public stay informed.

Liverpool Public Library
310 Tulip Street
Liverpool, NY 13088
phone: 315-457-0310

NYS Department of Environmental Conservation
Attn: Richard Mustico, P.E.
625 Broadway
Albany, NY 12233
(rxmustic@gw.dec.state.ny.us)

Atlantic States Legal Foundation
Attn: Samuel Sage
658 West Onondaga Street
Syracuse, NY 13204
phone: 315-475-1170

NYS Department of Environmental Conservation
615 Erie Blvd. West
Syracuse, NY 13204
phone: 315-426-7400

Project documents are also available on the NYSDEC website at:

<http://www.dec.ny.gov/chemical/37558.html>

Who to Contact

Comments and questions are always welcome and should be directed as follows:

Project Related Questions

Richard Mustico
Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, NY 12233-7013
518-402-9788
rxmustic@gw.dec.state.ny.us

Site-Related Health Questions

Mark Sergott
New York State Department of Health
Bureau of Environmental Exposure Investigation
Empire State Plaza, Corning Tower Room 1787
Albany, NY 12237
518-402-7860
BEEI@health.state.ny.us

We encourage you to share this fact sheet with neighbors and tenants, and/or post this fact sheet in a prominent area of your building for others to see.

Receive Site Fact Sheets by Email

Have site information such as this fact sheet sent right to your email inbox. NYSDEC invites you to sign up with one or more contaminated sites county email listservs available at the following web page:
<http://www.dec.ny.gov/chemical/61092.html>. It's quick, it's free, and it will help keep you *better informed*.



As a listserv member, you will periodically receive site-related information/announcements for all contaminated sites in the county(ies) you select.

Note: Please disregard if you already have signed up and received this fact sheet electronically.



APPROXIMATE SCALE

REFERENCE:

1. NYSDOT 7.5 MIN TOPOGRAPHIC MAP OF SYRACUSE WEST, QUADRANGLE 1990, SCALE: 1" = 2000'.

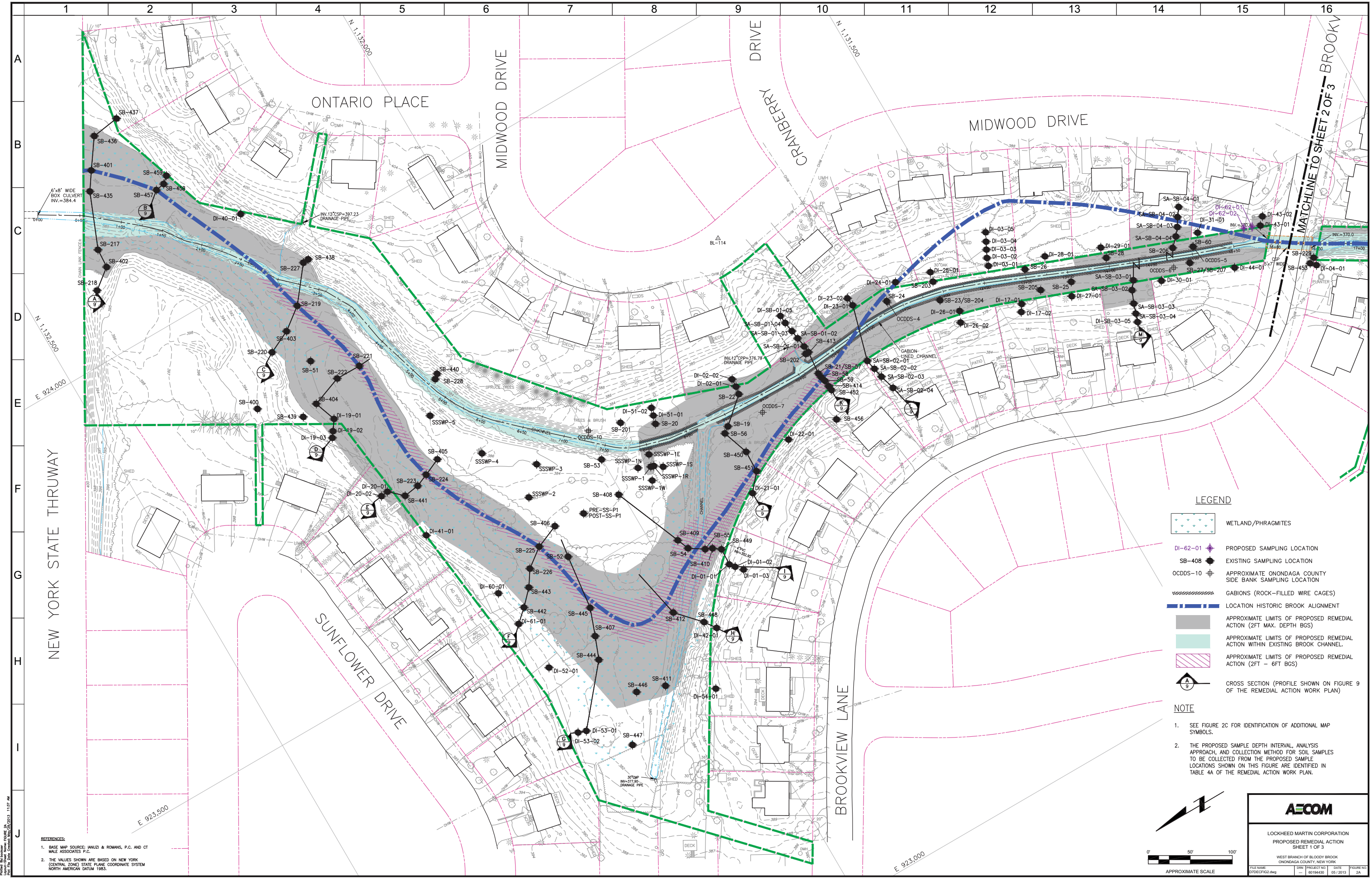
AECOM

LOCKHEED MARTIN CORPORATION

SITE LOCATION MAP

WEST BRANCH OF BLOODY BROOK
ONONDAGA COUNTY, NEW YORK

FILE NAME:	DRN	PROJECT NO.	DATE	FIGURE NO.
A4DECFIG1.dwg	—	60194430	05 / 2013	1



LEGEND

WETLAND/PHRAGMITES

DI-62-01

SB-408

OCDDS-10

GABIONS (ROCK-FILLED WIRE CAGES)

LOCATION HISTORIC BROOK ALIGNMENT

APPROXIMATE LIMITS OF PROPOSED REMEDIAL ACTION (2FT MAX. DEPTH BGS)

APPROXIMATE LIMITS OF PROPOSED REMEDIAL ACTION WITHIN EXISTING BROOK CHANNEL

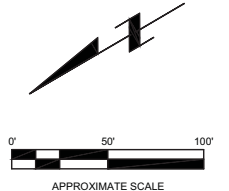
APPROXIMATE LIMITS OF PROPOSED REMEDIAL ACTION (2FT - 6FT BGS)

CROSS SECTION (PROFILE SHOWN ON FIGURE 9 OF THE REMEDIAL ACTION WORK PLAN)

- NOTE**
1.

SEE FIGURE 2C FOR IDENTIFICATION OF ADDITIONAL MAP SYMBOLS.
2.

THE PROPOSED SAMPLE DEPTH INTERVAL, ANALYSIS APPROACH, AND COLLECTION METHOD FOR SOIL SAMPLES TO BE COLLECTED FROM THE PROPOSED SAMPLE LOCATIONS SHOWN ON THIS FIGURE ARE IDENTIFIED IN TABLE 4A OF THE REMEDIAL ACTION WORK PLAN.



AECOM

LOCKHEED MARTIN CORPORATION
PROPOSED REMEDIAL ACTION
SHEET 1 OF 3

WEST BRANCH OF BLOODY BROOK
ONONDAGA COUNTY, NEW YORK

FILE NAME: 07DEC012.dwg
PROJECT NO: 80184430
DATE: 05/2013
FIGURE NO: 2A

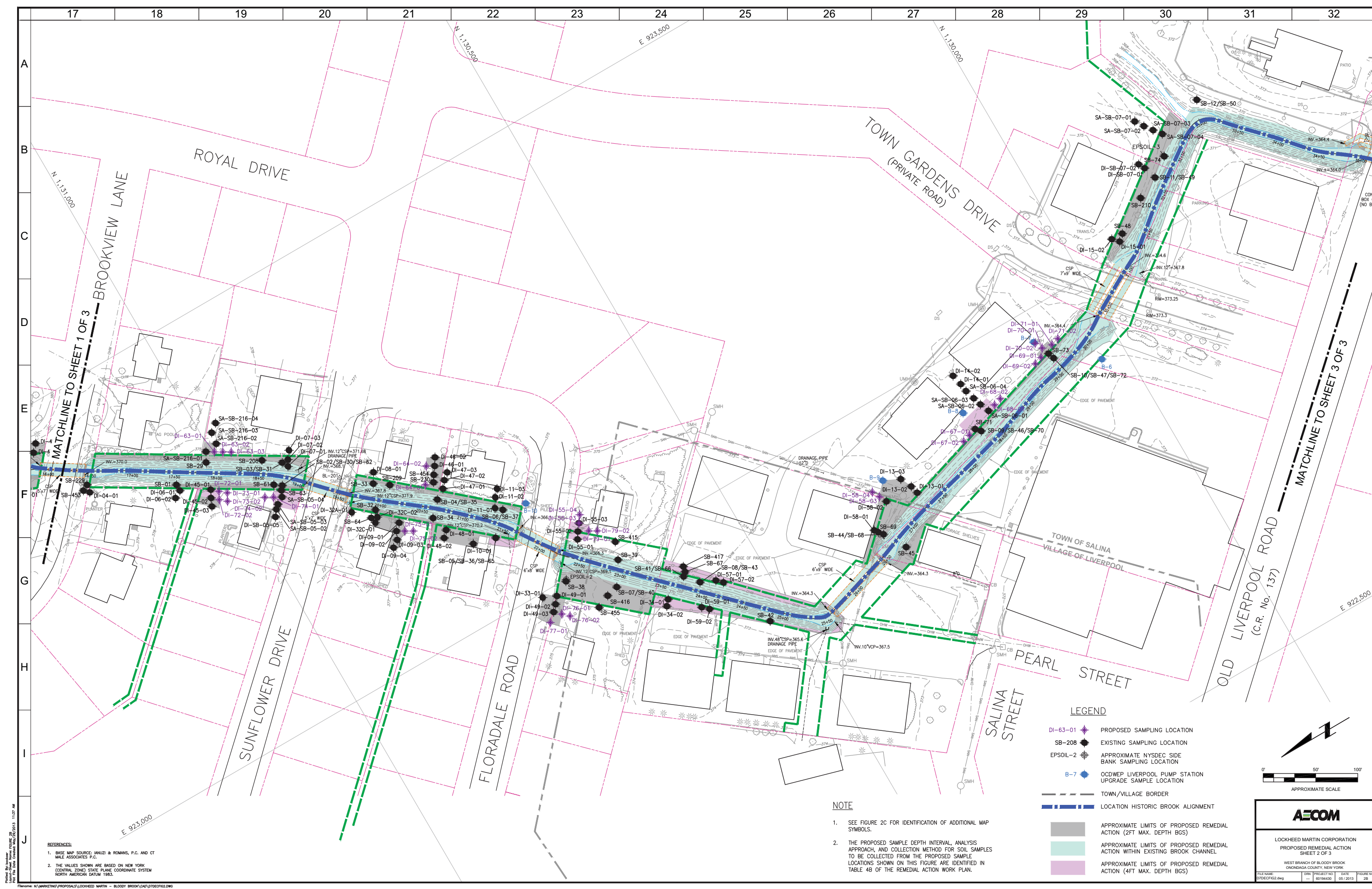
REFERENCES:

1.

BASE MAP SOURCE: JANIUS & ROMANS, P.C. AND CT MALE ASSOCIATES P.C.

2.

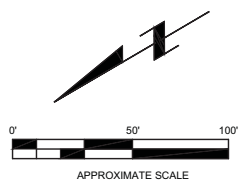
THE VALUES SHOWN ARE BASED ON NEW YORK (CENTRAL ZONE) STATE PLANE COORDINATE SYSTEM NORTH AMERICAN DATUM 1983.



REFERENCES:
1. BASE MAP SOURCE: UNLUZ & ROMANS, P.C. AND CT MALE ASSOCIATES P.C.
2. THE VALUES SHOWN ARE BASED ON NEW YORK (CENTRAL ZONE) STATE PLANE COORDINATE SYSTEM NORTH AMERICAN DATUM 1983.

NOTE
1. SEE FIGURE 2C FOR IDENTIFICATION OF ADDITIONAL MAP SYMBOLS.
2. THE PROPOSED SAMPLE DEPTH INTERVAL, ANALYSIS APPROACH, AND COLLECTION METHOD FOR SOIL SAMPLES TO BE COLLECTED FROM THE PROPOSED SAMPLE LOCATIONS SHOWN ON THIS FIGURE ARE IDENTIFIED IN TABLE 4B OF THE REMEDIAL ACTION WORK PLAN.

- LEGEND
- DI-63-01 PROPOSED SAMPLING LOCATION
 - SB-208 EXISTING SAMPLING LOCATION
 - EPSOIL-2 APPROXIMATE NYSDEC SIDE BANK SAMPLING LOCATION
 - B-7 OCDWEP LIVERPOOL PUMP STATION UPGRADE SAMPLE LOCATION
 - TOWN/VILLAGE BORDER
 - LOCATION HISTORIC BROOK ALIGNMENT
 - APPROXIMATE LIMITS OF PROPOSED REMEDIAL ACTION (2FT MAX. DEPTH BGS)
 - APPROXIMATE LIMITS OF PROPOSED REMEDIAL ACTION WITHIN EXISTING BROOK CHANNEL
 - APPROXIMATE LIMITS OF PROPOSED REMEDIAL ACTION (4FT MAX. DEPTH BGS)



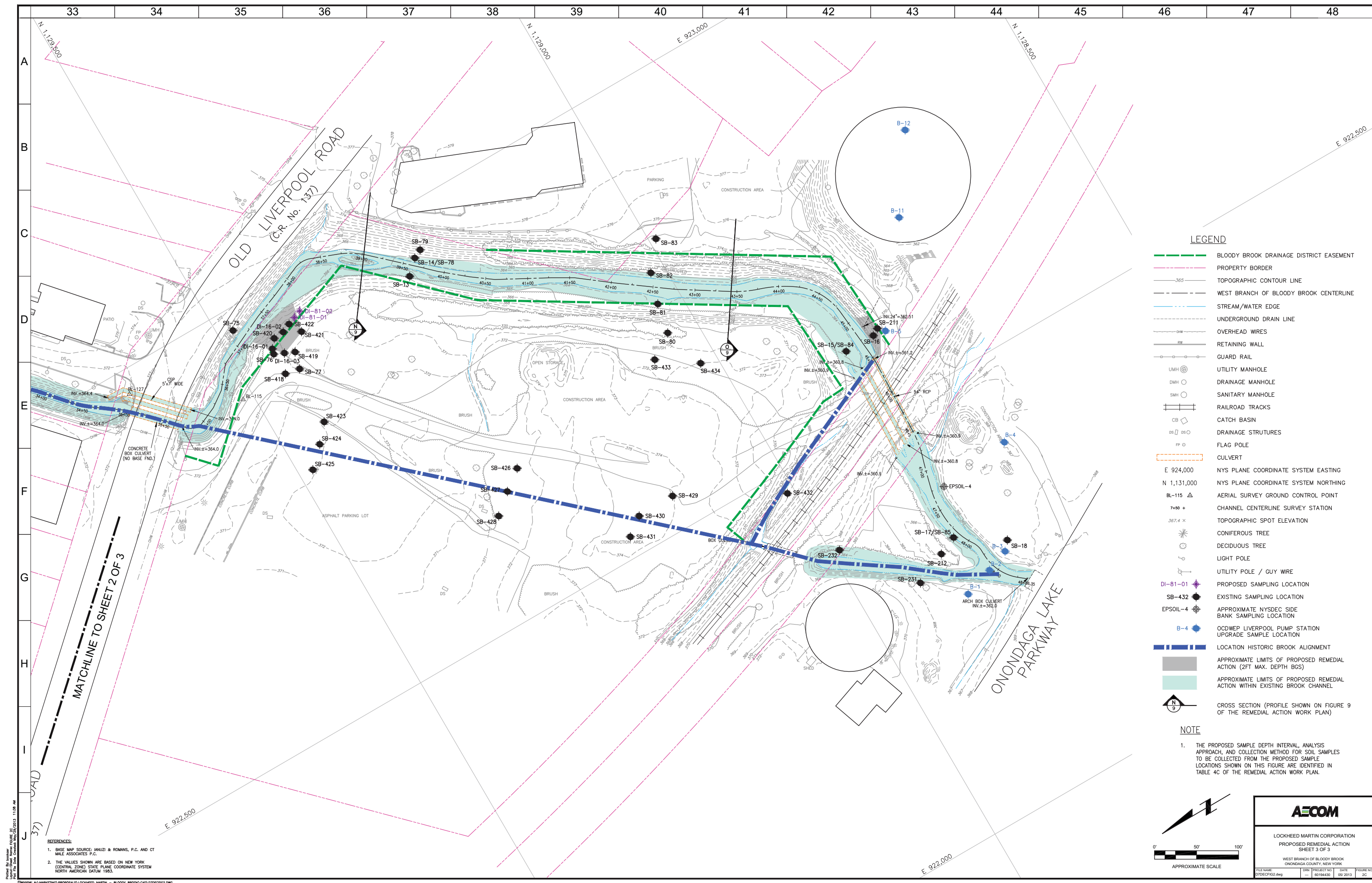
AECOM

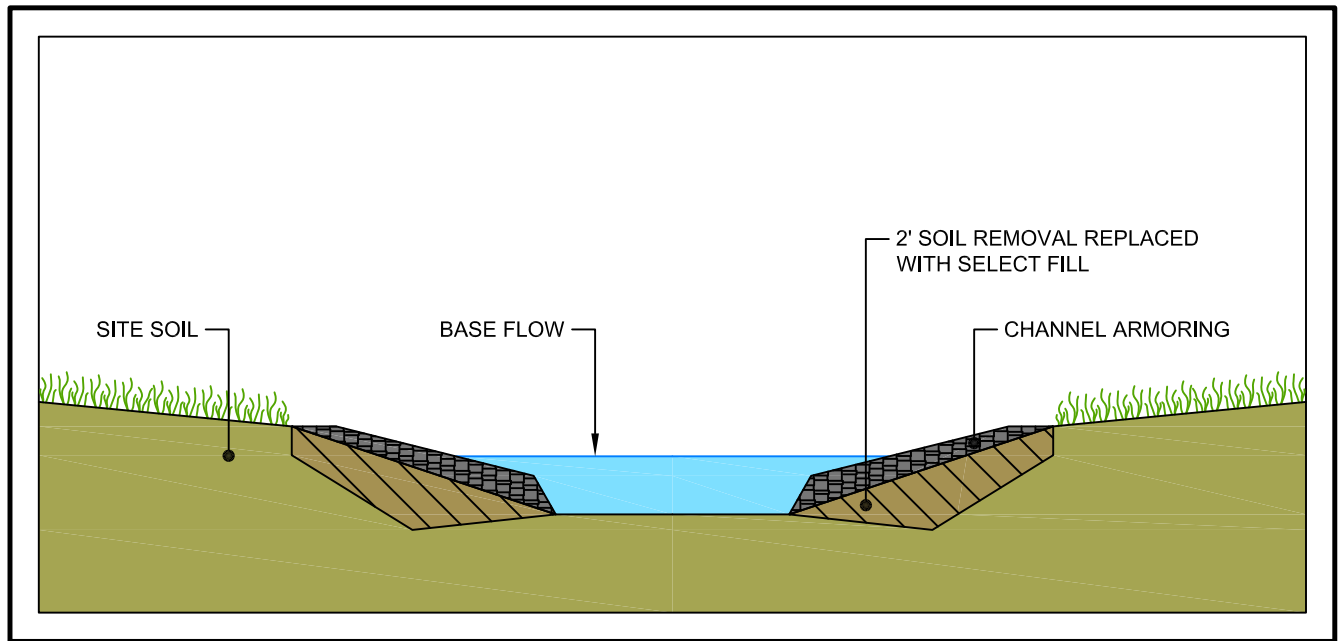
LOCKHEED MARTIN CORPORATION
PROPOSED REMEDIAL ACTION
SHEET 2 OF 3

WEST BRANCH OF BLOODY BROOK
ONONDAGA COUNTY, NEW YORK

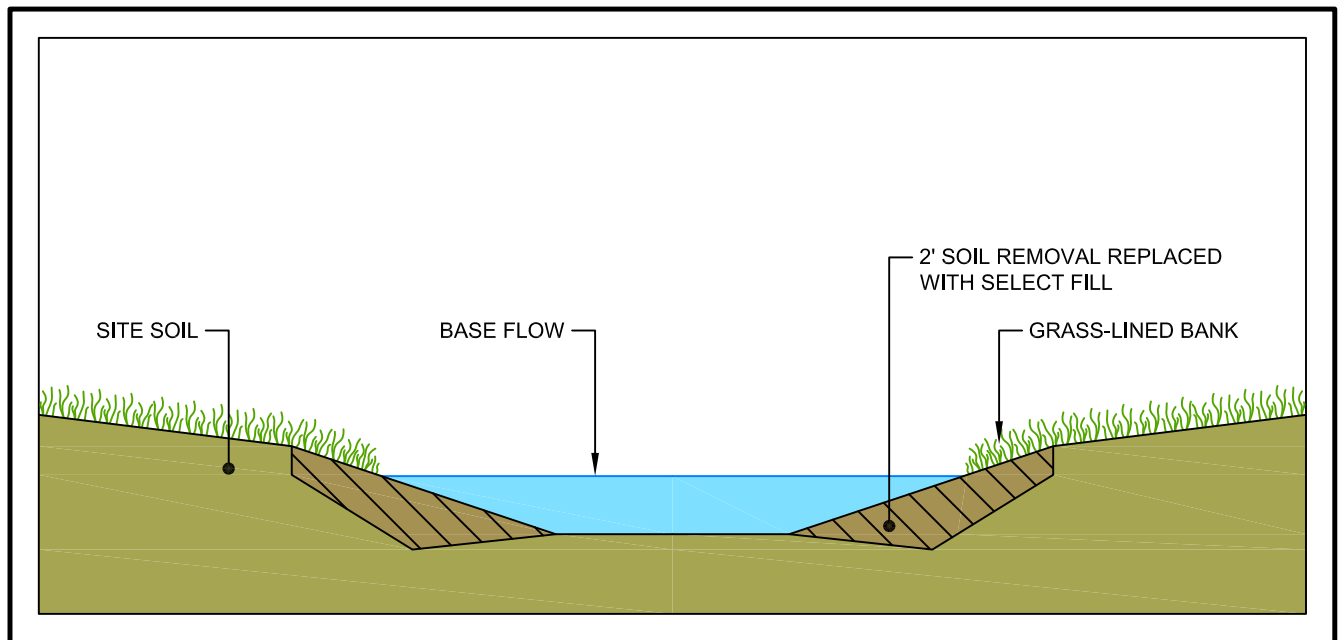
FILE NAME: 07062CF02.dwg	PROJECT NO: 80184430	DATE: 05/2013	FIGURE NO: 2B
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ARMORED BANK RESTORATION



GRASS-LINED BANK RESTORATION

AECOM

LOCKHEED MARTIN CORPORATION
TYPICAL BLOODY BROOK RESTORATIONS

WEST BRANCH OF BLOODY BROOK
ONONDAGA COUNTY, NEW YORK

FILE NAME: A5DECFG2D.dwg	DRN —	PROJECT NO. 60194430	DATE 06 / 2013	FIGURE NO. 2D
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