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ENVIRONMENTAL IMPACT EVALUATION

Prepared in accordance with the Connecticut Environmental Policy Act

OX BROOK
FLOOD CONTROL MASTER PLAN PROJECT
Bridgeport, CT

February 2022



Ox Brook Open Channel Section at Stoehrs Place

Sponsoring Agency:
Connecticut Department of Energy
and Environmental Protection

Prepared by:
GZA GeoEnvironmental, Inc.

EXECUTIVE SUMMARY

Introduction/Proposed Action Description

The Proposed Action is the implementation of the Ox Brook Flood Control Master Plan (the Project) to address chronic flooding along Ox Brook in the city of Bridgeport. The City has been conducting studies related to flooding and potential mitigation strategies since the 1970s, culminating in a 2001 *Ox Brook Flood Control Study*, prepared by Kasper Associates. This document outlined a six-phase flood control improvements project, which is the basis of the Proposed Action. Since 2001, the City contracted with Tighe & Bond to prepare a final design for Phase 1 of the flood improvements Project; thus, detailed information is available for the initial phase, which is the only phase with construction funding at this time. The remaining phases (Phases 2-6) have been designed only to a preliminary level.

The Proposed Action includes the following basic elements (more detailed discussion of the Proposed Action is included in Sections 1 and 2 of the EIE):

- Phase 1: Dam rehabilitation and detention area construction at Elton Rogers Park;
- Phase 2: Construction of a diversion to the Svihra Park area and detention area construction;
- Phase 3: Channel and crossing improvements from Lincoln Boulevard to Quince Street;
- Phase 4: Channel and crossing improvements from Rocton Avenue to Burnsford Avenue;
- Phase 5: Channel and crossing improvements from Burnsford Avenue to Lourmel Street; and
- Phase 6: Construction of the Island Brook diversion to the Elton Rogers detention area, additional excavation within the Elton Rogers Park impoundment area to increase stormwater detention storage, and connection of a new discharge from the dam to Lourmel Street.

This Environmental Impact Evaluation (EIE) has been prepared pursuant to the requirements of the Connecticut Environmental Policy Act (CEPA) as promulgated under Section 22a-1 to 22a-1h of the Connecticut General Statutes (CGS) and as amended by Public Act 02-121, which requires that State-sponsored actions that have the potential for causing negative environmental effects be evaluated. The EIE will be made available to government agencies, the public, and other interested parties for review and comment. The sponsoring agency for this EIE is the Connecticut Department of Energy and Environmental Protection (CT DEEP).

While State funding has been identified at this time for only Phase 1 of the Project, this EIE has been developed to review and consider potential environmental impacts associated with implementation of the complete Ox Brook Flood Control Master Plan Project (all six phases).

Purpose and Need

The purpose of the Proposed Action is to alleviate chronic flooding along the Ox Brook corridor through implementation of the six-phase Ox Brook Flood Control Master Plan Project, as described herein. The city has a long history of flooding within the Ox Brook corridor and in other areas of the city. Studies of flooding along Ox Brook date back to at least the 1970s. Due to the scale of the problem and the cost of potential solutions, including the Proposed Action, full implementation of the Project is anticipated to require a significant period of time.

Repeated flooding events within the Ox Brook watershed have resulted in continued:

- Property damages to residential structures (homes, garages, outbuildings) and commercial/industrial businesses;
- Infrastructure damage and the need for maintenance personnel to address blockages and damages;

- Roadway and sidewalk closures and detours affecting vehicles, bicycles, and pedestrians;
- Safety hazards posed by floodwaters and the need for emergency response by Fire Department, Police Department, and emergency medical services to establish and maintain detours and road closures, coordinate evacuations, and provide other assistance to those affected by flooding;
- Health hazards associated with sewer overflows and/or interruptions of services or other water quality impacts associated with floodwaters; and
- Trauma and negative effects on homeowners due to repeated losses and risks associated with flooding.

The Proposed Action seeks to reduce this pattern of flooding and associated damages and emergency response needs. Implementation of the Master Plan, including construction of detention/storage areas with diversions, open channel improvements, and piped and culverted section improvements, will reduce the frequency, duration, and severity of flooding along Ox Brook, resulting in reduced and/or avoided flood-related risks and damages for residents and businesses in the Project Area. Implementation of the Proposed Action would result in reduced flood-related property damages, reduced demands on emergency services in the city, reduced safety and health risks and trauma for residents/businesses, and reduced infrastructure impacts.

Alternatives Considered

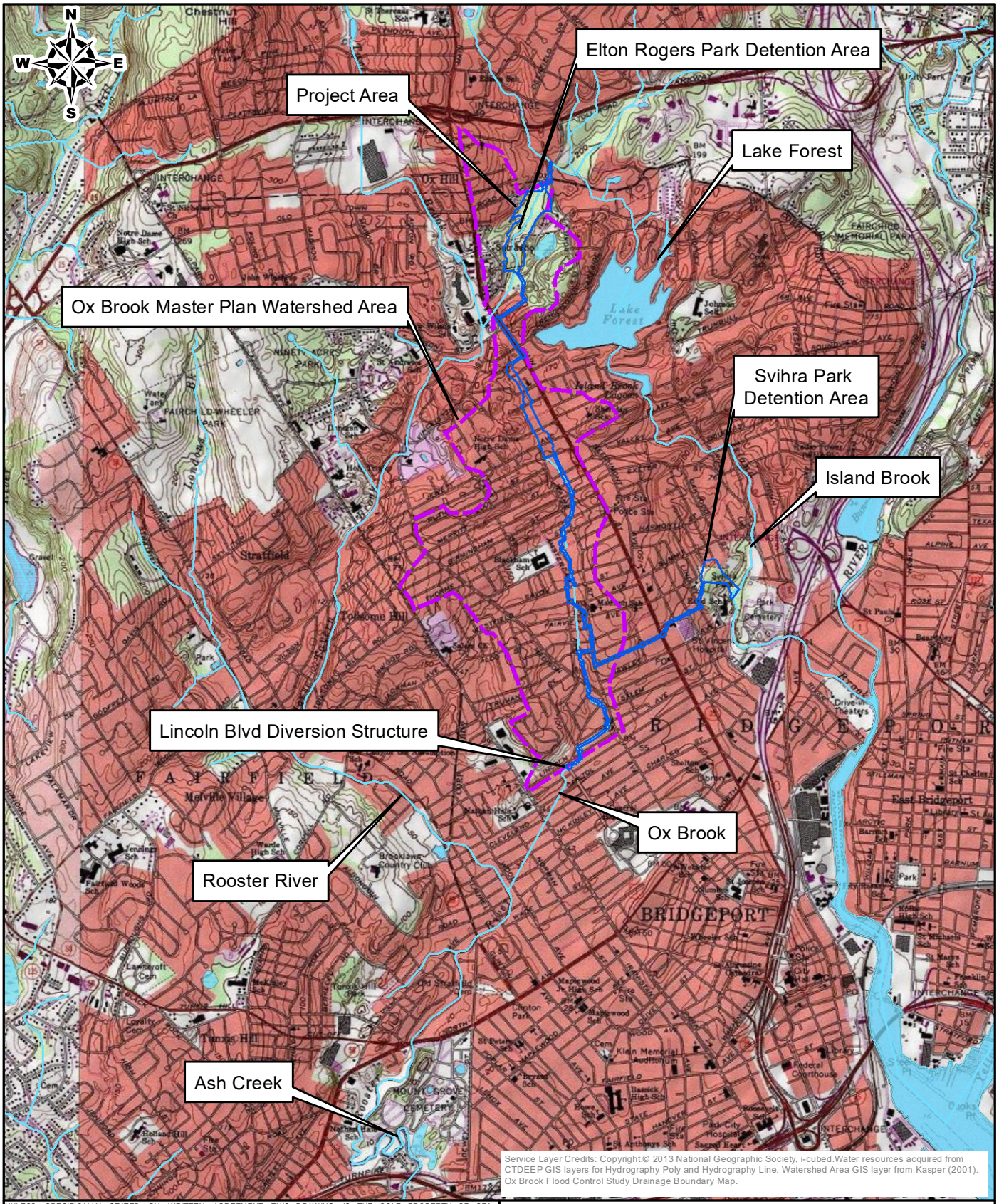
As required by CEPA, alternatives were considered in addition to the Proposed Action, including the No Action alternative. Alternatives and subalternatives considered as part of the CEPA process are as follows:

- No Action Alternative
- Ox Brook Flood Control Master Plan Alternative
- Phase 1 Subalternates from Tighe & Bond
- Phases 2-6 Subalternates to Kasper Master Plan elements

These alternatives are discussed more fully in the EIE, but summarized herein:

No Action Alternative – Under this alternative, no improvements to the existing system would be made. The capacity of the Ox Brook system would remain generally the same, with some potential for continued detention behind the existing dam in Elton Rogers Park in its current state. Infrastructure would continue to degrade, except for emergency actions that the City may need to take in the event of failure, blockage, etc. This alternative would result in the continued potential for public health and safety concerns from flooding, 403 land parcels would remain in the Federal Emergency Management Agency (FEMA) 1% annual chance flood hazard area, continued flood damages would impact properties and cause financial losses, and there would be the continued need for emergency response personnel and services associated with storm events. This alternative does not meet the Purpose and Need and was dismissed as a viable alternative.

Ox Brook Flood Control Master Plan Alternative – Under this alternative, Kasper's six-phase Ox Brook Flood Control Master Plan would be implemented, including the final design provided by Tighe & Bond's Phase 1 improvements, which would include the construction of two detention areas, a diversion from and back to Island Brook, piped diversions to/from the detention areas, and channel and street crossing improvements along the length of the Project Area. The Project Area for the Master Plan extends generally from Elton Rogers Park at the north end to its downstream limit at Lincoln Boulevard to the south, as shown in **Figure ES-1** and **Figure ES-2** of the EIE. Detailed descriptions of the complex system of improvements is included within Sections 1 and 2 of the EIE.



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SCALE IN FEET

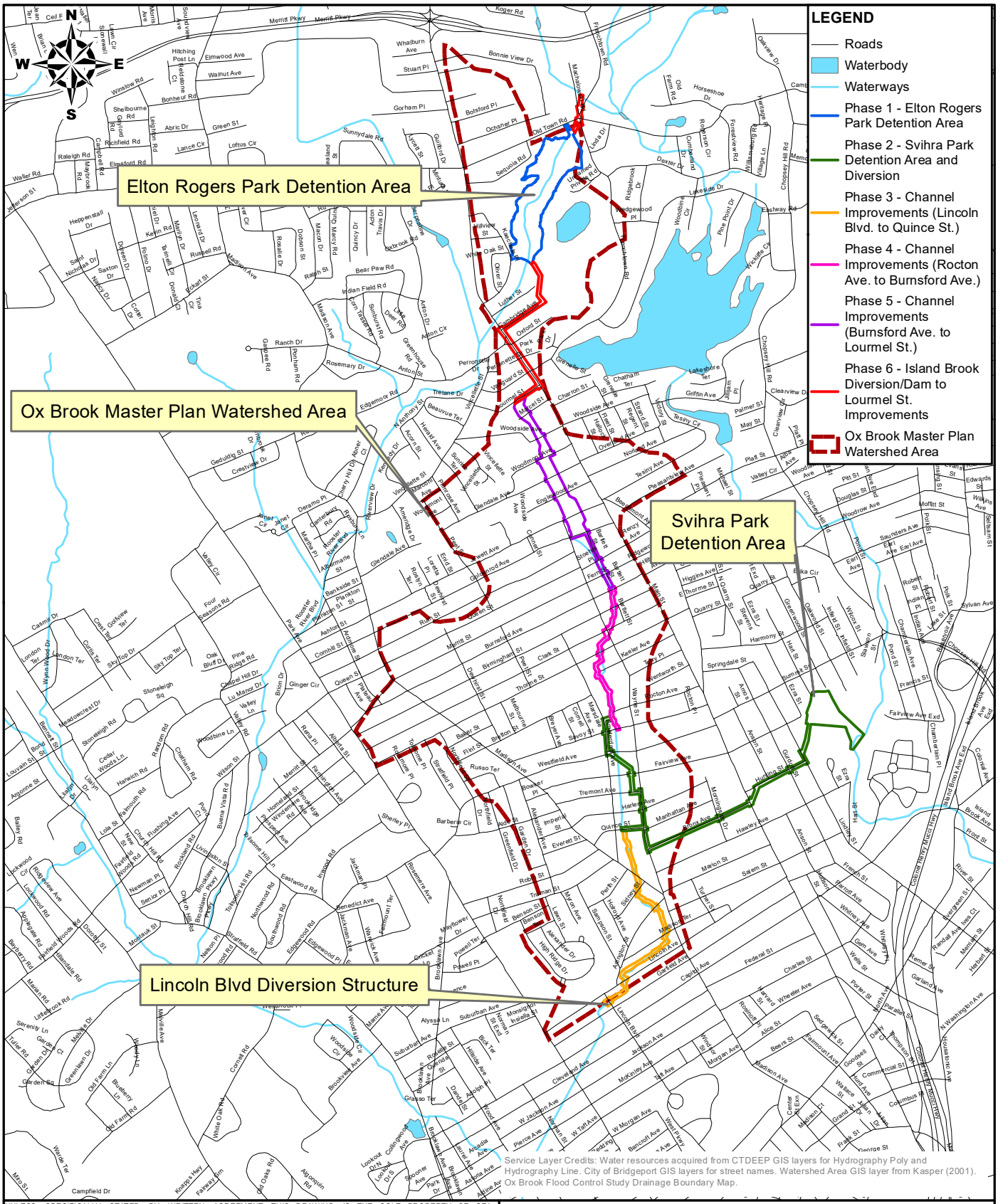
OX BROOK FLOOD CONTROL MASTER PLAN EIE
BRIDGEPORT, CT

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
CITY OF BRIDGEPORT
BRIDGEPORT, CT

LOCUS MAP

PROJ MGR: JRB	REVIEWED BY: TEJ	CHECKED BY: SLL	FIGURE ES-1
DESIGNED BY: JRC	DRAWN BY: JRC	SCALE: 1 in = 3,000 ft	
DATE: FEBRUARY 2022	PROJECT NO: 15.0166920.00	REVISION NO: -	SHEET NO: 1 OF 1



Service Layer Credits: Water resources acquired from CTDEEP GIS layers for Hydrography Poly and Hydrography Line. City of Bridgeport GIS layers for street names. Watershed Area GIS layer from Kasper (2001). Ox Brook Flood Control Study Drainage Boundary Map.

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OX BROOK FLOOD CONTROL MASTER PLAN EIE
BRIDGEPORT, CT

PROJECT PHASING PLAN

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
CITY OF BRIDGEPORT
BRIDGEPORT, CT

PROJ MGR:	JRB	REVIEWED BY:	TEJ	CHECKED BY:	SLL
DESIGNED BY:	JRC	DRAWN BY:	JRC	SCALE:	1 in = 2,000 ft
DATE:	FEBRUARY 2022	PROJECT NO:	15.0166920.00	REVISION NO:	-

FIGURE
ES-2
SHEET NO: 1 OF 1

As discussed in the description of the Proposed Action in Section 1, while the Phase 1 portion of the Master Plan (dam reconstruction and detention creation at Elton Rogers Park) has been fully designed and is not expected to change significantly, the elements described for Phases 2-6 may vary from what is stated in the EIE once the final design of each phase is undertaken. However, the preliminary design sizes are provided within this document for general understanding of project scale and to assist with impact evaluation.

The six phases of the Master Plan Alternative include the following:

- **Phase 1:** Construction of an impoundment within Elton Rogers Park, via rehabilitation of an existing dam and construction of two new dikes within the park property. The existing dam was constructed circa 1872 by the Bridgeport Hydraulic Company and was in use until the early 1930s. In its current deteriorated condition, the dam no longer impounds a significant quantity of water.

- **Phase 2:** Three main components: (1) construction of a detention area for storage within Svihra Park (and adjacent private parcel) with a 18-inch outlet pipe to Island Brook, (2) construction of 3,850 linear feet (LF) of 9-ft x 5-ft box culvert in Wayne Street, Bronx Avenue, and Hunting Street, to divert Ox Brook flows to the new detention area, and (3) construction of a 12-ft x 5-ft box culvert to reroute a section of Ox Brook from a point approximately 100 feet south of Rocton Ave. to Quince Street. From Quince Street, a 60-inch diameter pipe will discharge a specified flow back to the existing Ox Brook channel, with the remaining flow will be discharged to the Svihra Park diversion. The existing Ox Brook channel in the affected reach will remain in place to convey local runoff.

- **Phase 3:** Channel and crossing improvements from Lincoln Boulevard upstream to Quince Street. Open channel sections will be improved to either a trapezoidal or rectangular cross-sections, with five (5) street crossings improved with box culverts.

- **Phase 4:** Channel and crossing improvements from Rocton Avenue to Burnsford Avenue. Open channel sections will be improved to either a trapezoidal or rectangular cross-sections, the culvert beneath Burnsford Avenue will be replaced, and three (3) additional crossings will be improved with larger diameter culverts.

- **Phase 5:** Channel and crossing upgrades from Burnsford Avenue upstream to Lourmel Street. The existing open channel section between Burnsford Avenue and Stoehrs Place will be improved to a trapezoidal cross-section. Between Lourmel Street and Stoehrs Place, the existing brook is piped. As an element of the project, improved piped sections will be installed, ranging in size from 54-inches to 84-inches in diameter.

- **Phase 6:** Construction of the Island Brook diversion to the Elton Rogers Park detention area, with approximately 650 LF of 10-ft x 3-ft box culvert in Old Town Road. This phase would also include the construction of an 18-inch pipe discharging flow from the dam to Ox Brook at Lourmel Street and additional excavation for additional detention volume within Elton Rogers Park.

This alternative would reduce flooding damages and emergency response needs along Ox Brook and would significantly reduce or eliminate the 1% annual chance storm flood hazard area along the brook, resulting in significant community benefits. **This alternative was selected as the preferred alternative (Proposed Action) and carried throughout the EIE.**

Phase 1 Subalternates from Tighe & Bond - These two subalternates were proposed by Tighe & Bond during the design development process for the Phase 1 dam reconstruction. Subalternates identified were for:

- Potential use of a depression east of the main proposed impoundment to create a detention area that would then be tied to the main impoundment area; and

- Potential construction of a cut-off channel in the Park Drive right-of-way to intercept runoff from the east and reduce flows to Luther Street, reducing the impoundment volume needs for the dam reconstruction.

Both of these subalternatives were dismissed because each would result in additional vernal pool and/or wetland impacts, as compared to the Phase 1 design which is proposed.

Phases 2-6 Subalternates to Kasper Master Plan Elements – Two main subalternatives were considered as part of Kasper's work for Phases 2-6, namely:

- An alternative diversion option (compared to Svihra Park diversion), which would reroute flows below streetlines to the Rooster River; and

- Alternative design storm considerations looking at varying levels of protection (designing for lesser storms).

The alternative diversion route was dismissed as it would result in a longer length of conduit construction, would require rebuilding the Lincoln Boulevard diversion structure, and would result in higher construction impacts and costs.

The consideration of using a lower level of design storm was dismissed as it would result in significant residual flooding within the Ox Brook corridor, which would not meet the purpose and need for the Project.

Impacts and Mitigation

The following table summarizes the impacts of the Proposed Action on the natural, physical, and socioeconomic environment and presents the mitigation proposed to reduce impacts to those resources that would be negatively impacted. More specific discussions of impacts and mitigation and presented within the main body of the EIE.

Table ES-1. Summary of Impacts and Minimization/Mitigation Measures

Environmental Element	Impacts	Impact Minimization & Mitigation
Geology, Soils, Agricultural Soils, Topography	Excavation and fill within Elton Rogers Park for dam reconstruction, berm creation, and overexcavation. Excavation and fill for Svihra Park detention area creation. Grading along open channel areas for channel improvements.	Installation of erosion and sedimentation controls during and after construction, along with General Permit registration and SWPCP
Water Resources	Temporary disturbance of stream channels for improvements and stabilization activities. Temporary disturbances in Elton Rogers and Svihra Park areas. Reduction in 1% annual chance flood hazard areas, reductions in stream erosion, and reduction in flooding effects on water quality (benefits).	Installation of erosion and sedimentation controls during and after construction, along with General Permit registration and SWPCP. Stabilization of channel sections with appropriate materials based on flows/velocities. Appropriate design using up to date methods and precipitation values to account for climate change. Map change revisions relative to FEMA Flood Hazard Areas post-construction.
Site Ecology and Wetland Resources	Direct wetland impacts, as summarized in EIE.	In lieu fee for mitigation, as well as restoration and other mitigation in conjunction with permits

Environmental Element	Impacts	Impact Minimization & Mitigation
Endangered, Threatened, and Special Concern Species and Habitats	Not applicable, no identified species.	Not applicable. No identified species per NDDB mapping.
Traffic, Bicycle and Pedestrian Access	Temporary construction phase impacts due to detours and temporary closures for culvert crossing improvements. Will improve conditions overall by reducing flooding of roadways, which will reduce road closures and detours.	Construction phase maintenance and protection of traffic plan; noticing, signage and alternative routing during construction.
Air Quality	Temporary construction phase increases in air emissions from construction vehicles.	Minimize construction idling, use of vehicle emission control devices, idling limited to 3 minutes or less, control of fugitive dust
Noise	Temporary construction phase increases in noise from construction vehicles and activities.	Limiting construction to daytime hours, minimizing construction idling, notice to sensitive receptors in coordination with City
Light/Shadow	No new significant sources of light, although vegetation removal along stream sections may result in temporary visual changes.	Limiting construction to daytime hours to extent possible, vegetative mitigation in design process
Utilities	Utilities may need to be slightly modified or temporarily interrupted during construction.	Contacting Call Before You Dig, utility coordination meetings and planning, outage protocols
Aesthetics/Viewsheds	Vegetation removal along stream sections may result in temporary visual changes.	Vegetative mitigation as part of design process
Solid Waste & Recycling	Generation of debris and waste materials during construction.	Proper handing and offsite disposal of construction waste
Cultural Resources	Impacts to the existing dam in Elton Rogers Park to improve its function and safety.	Mitigation for Elton Rogers Park Dam impacts per SHPO
Pesticides, Toxic or Hazardous Materials	Potential disturbance of contaminated materials during construction.	Investigations and proper handling, removal, and disposal of contaminated materials encountered, remediation if needed.
Energy Use & Conversion	No long-term change in energy usage	N/A
Public Health & Safety	Improvements to public health and safety through reduction in flooding and residents/businesses contacting floodwaters, reduction in demand on emergency services (benefits).	N/A, overall positive benefit
Land Use, Neighborhoods, and Recreational Resources	Small impacts to existing trails in Elton Rogers Park. Overall positive benefits on neighborhood through flooding reductions.	Trail adjustments in parks if needed
Population, Employment, Income, Housing and Commercial Properties	Overall positive benefits to business and residential homes and residents through flooding reductions, but some need for acquisitions or easements to accommodate final design of Phases 2-6.	Overall positive benefit, Fair market value purchases for any needed acquisitions

Potential Certificates, Permits, and Approvals

The following table summarizes the main environmental certificates, permits, and approvals that would be likely to be required for the construction and operation of the Proposed Action.

Table ES-2. Potential Certificates, Permits, and Approvals Required for Ox Brook Master Plan Implementation

Certificate, Permit, or Approval	Reviewing Agency	Comments
Section 404 Authorization	USACE	Required for discharge of dredged or fill materials into Waters of the U.S., including wetlands. Project may be reviewed as a Pre-Construction Notification activity or may require an Individual Permit, pending USACE determination.
401 Water Quality Certificate	CT DEEP	Required by Section 401 of the Clean Water Act for projects affecting wetlands or watercourses.
Non-Consumptive Diversion Permit	CT DEEP	Required for projects which modify or alter surface waters including collection and discharge of runoff from a watershed area of 100 acres or more, and/or relocation, retention, detention, bypass, channelization, piping, culverting, ditching, or damming of waters with a drainage area of 100 acres or more.
Flood Management Certification	CT DEEP	Required for projects receiving state funding that are in or affecting floodplains or natural or man-made storm drainage facilities. Note: To date, only Phase 1 of the Project has state funding.
Dam Safety Repair and Alteration Permit	CT DEEP	Required for projects involving repairs and alterations to dams.
Section 106 Consultation	SHPO	CT DEEP and USACE permits require consultation with the SHPO. A SHPO Letter of No Adverse Effect or development of a Memorandum of Understanding or mitigation plan that satisfies SHPO concerns is needed for these permits.
Inland Wetlands and Watercourses Permit	CT DEEP and City of Bridgeport Inland Wetlands and Watercourses Agency	Permit required for work in/near wetlands and watercourses. The DEEP Dam Safety and Repair Permit will incorporate inland wetlands and watercourses review and mitigation as an element of this process. For subsequent project phases on non-dam related work, local inland wetlands approvals are anticipated to be needed for any work in resource areas.
Demolition Permit	City of Bridgeport	Required for demolition of buildings, if applicable where an acquisition is needed for Project Phases 2-6.
General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (Construction Stormwater General Permit)	CT DEEP	For projects involving greater than one acre of earth disturbance; coverage requires registration and preparation and implementation of a Stormwater Pollution Control Plan.

The following permits may also be needed, depending on the final design elements of Phases 2-6: Soil and Special Waste Disposal (CT DEEP); Groundwater Remediation Wastewater to a Sanitary Sewer (CT DEEP); Demolition Permit (City), Building Permit (City), and other approvals relative to utility outages and minor modifications.

Once various phases of the Project are complete, the City may also wish to pursue community-initiated map revisions (such as a Letter of Map Revision or LOMR) with FEMA to reduce or eliminate flood hazard areas associated with Ox Brook along the Project Area.

Public Involvement and EIE Review/Comments

A Notice of Scoping was placed on the Council of Environmental Quality's (CEQ) *Environmental Monitor* website on October 5, 2021, to inform and solicit comments on the Proposed Action from agency reviewers and other interested parties. The Notice of Scoping and supplemental materials regarding the Project were also posted on the City of Bridgeport's website to inform residents/businesses within the city of the scoping meeting. The public Scoping Meeting was held virtually (due to the ongoing COVID-19 pandemic) on Monday October 18, 2021, at 7:00 PM via Zoom®. The City of Bridgeport subsequently posted the Scoping Meeting presentation slides and a transcript of the Scoping Meeting on its website for public review. During the scoping period which ended November 4, 2021, no public comments on the Project were provided and no state agencies or departments provided comments.

To provide additional opportunities for agencies and the public to comment on the Project, a Notice of EIE availability is being published in the Environmental Monitor on February 22, 2022, and is also being published in the Connecticut Post and La Voz Hispana in accordance with CEPA requirements (3 times over the course of three weeks). A public meeting on the EIE will be held as advertised. An electronic copy of this EIE will be available for review on the DEEP public notices website. In addition, paper copies will be available for review in the city of Bridgeport at the Town Clerk's Office and the North End Library. This EIE is also being provided directly to the agencies/groups identified in the Distribution section for review and comment.

Written comments on the EIE and any other pertinent information must be sent or postmarked by April 11, 2022. Comments must be sent to:

Frederick Riese
CT Department of Energy and Environmental Protection (CT DEEP)
79 Elm Street, Hartford, CT 06106
PHONE: 860-424-4110
FAX: 860-424-4053
EMAIL: Frederick.riese@ct.gov

CT DEEP will review all such materials submitted by that time and consider comments made at the public hearing and will prepare responses to the substantive comments made. Based on the EIE and comments received during the EIE public comment period, CT DEEP will submit a Record of Decision to the State Office of Policy and Management, which will review the documentation, including responses to comments, and make a Determination of Adequacy based on the materials submitted.

Conclusion

The Proposed Action will have a net positive benefit relative to natural, physical, and socioeconomic resources of the Ox Brook corridor and the City of Bridgeport. The Project would result in a reduction in the frequency and severity of flooding in the corridor and reduce the number of properties within the 1% annual chance flood hazard area. The Proposed Action

would result in decreased flooding impacts to residences and businesses, decreased need for emergency response personnel and resources, and improve conditions along a degraded urban waterway.

Distribution

The EIE will be distributed to the following agencies, departments, and interested parties:

- U.S. Army Corps of Engineers, New England Division (USACE)
- State of Connecticut Office of Policy and Management (OPM)
- Connecticut Council on Environmental Quality (CEQ)
- State of Connecticut Department of Energy and Environmental Protection
- State of Connecticut Historic Preservation Office (SHPO)
- Metropolitan Council of Governments (MetroCOG)
- The Honorable Marilyn Moore, State Senator, Senate District 22
- The Honorable Dennis Bradley, State Senator, Senate District 23
- The Honorable John F. "Jack" Hennessy, State Representative, House District 127
- City of Bridgeport
    - Town Clerk
    - Mayor Gamin
    - City Council Members (132nd, 133rd, 134th, and 135th Districts)
    - Police Department
    - Parks & Recreation Dept.
    - Engineering Dept.
    - Office of Emergency Management and Homeland Security
    - Public Facilities Department
    - Water Pollution Control Authority
    - Zoning Department
    - Office of Planning and Economic Development
    - North Branch Library
- Lake Forest Association

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LIST OF ABBREVIATIONS

AHS	Archaeological and Historical Services, Inc.
APE	Area of Potential Effects
BCA	Benefit Cost Analysis
BCR	Benefit Cost Ratio
BFE	Base Flood Elevation
BMPs	Best Management Practices
C&D	Conservation and Development
CAA	Clean Air Act
CBYD	Call Before You Dig
CED	Comprehensive Economic Development
CEPA	Connecticut Environmental Policy Act
CEQ	Council on Environmental Quality
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
cfs	cubic feet per second
CGP	Construction General Permit
CGS	Connecticut General Statutes
CHMM	Certified Hazardous Materials Manager
CO	Carbon monoxide
CORRACTS	RCRA Corrective Action Report
CPCS	Contaminated or Potentially Contaminated Sites
CSOs	Combined Sewer Overflows
CT DEEP	Connecticut Department of Energy and Environmental Protection
CT ENF	Connecticut Enforcement Case Listing
dB	decibel

dBA	decibel (A-weighted)
ECHO	Enforcement and Compliance History Online
EDR	Environmental Data Resources, Inc.
EIE	Environmental Impact Evaluation
EJ	Environmental Justice
EMS	Emergency Medical Services
EMT	Emergency Medical Technician
ENR	Engineering News Record
EOC	Emergency Operations Center
EP	Environmental Professional
EPA	U.S. Environmental Protection Agency
EPCRA	Emergency Planning and Community Right-to-Know Act
ERNS	Environmental Response Notification System
ESA	Endangered Species Act
FEMA	Federal Emergency Management Agency
FIFRA	Federal Insecticide, Fungicide, & Rodenticide Act
FIS	Flood Insurance Study
ft	Foot/Feet
H&H	Hydrologic and Hydraulic
HIST AUTO	Historical Auto Stations Database
HIST CLEANERS	Historical Cleaners Database
HMPU	Hazard Mitigation Plan Update
HSWA	Hazardous and Solid Waste Amendments
LEP	Licensed Environmental Professional
LF	linear foot/feet

LOMR	Letter of Map Revision
LUST	Leaking Underground Storage Tank
MetroCOG	Connecticut Metropolitan Council of Governments
mgd	Million gallons per day
MS4	Municipal Separate Storm Sewer System
N/A	Not Applicable
NAAQS	National Ambient Air Quality Standards
NATA	National Air Toxics Assessment
NDDB	Natural Diversity Data Base
NFHL	National Flood Hazard Layer
NFIP	National Flood Insurance Program
NOAA	National Oceanic and Atmospheric Administration
NO_x	Nitrogen oxides
NPL	National Priority List
NRHP	National Register of Historic Places
O_3	Ozone
OEMHS/LEPC	Office of Emergency Management & Homeland Security/Local Emergency Planning Committee
OPM	Office of Policy and Management
Pb	Lead
PM_{10}	Particulate matter with diameter of 10 microns or less
$PM_{2.5}$	Particulate matter with diameter of 2.5 microns or less
PMF	Probable Maximum Flood
RCRA	Resource, Conservation, and Recovery Act
RCSA	Regulations of Connecticut State Agencies
RGA	Recovered Government Archive

RSRs	Remediation Standard Regulations
SCG	Southern Connecticut Gas
SDADB	Site Discovery and Assessment Database
SEH	Significant Environmental Hazards
SEMS	Superfund Enterprise Management System
SF	Square foot/feet
SHPO	State Historic Preservation Office
SHWS	State Hazardous Waste Sites
SO_2	Sulfur dioxide
SRHP	State Register of Historic Places
SWF/LF	Solid Waste Facilities and Landfill Sites
SWPCP	Stormwater Pollution Control Plan
TP-40	Technical Paper No. 40
TSCA	Toxic Substances Control Act
TSDF	Treatment Storage and Disposal Facilities
UIC	Underground Injection Control
U.S.	United States
USACE	U.S. Army Corps of Engineers
USCB	United States Census Bureau
USCG	United States Coast Guard
USDA	United States Department of Agriculture
UST	Underground Storage Tank
VMT	Vehicle Miles Traveled
VOCs	Volatile Organic Compounds
WPCA	Water Pollution Control Authority

1.0 INTRODUCTION

This Environmental Impact Evaluation (EIE) has been prepared for the Ox Brook Flood Control Master Plan Project (the Project, Proposed Action), a six (6) phase project to address chronic flooding along Ox Brook in Bridgeport. The EIE has been prepared pursuant to the requirements of the Connecticut Environmental Policy Act (CEPA) as promulgated under Section 22a-1 to 22a-1h of the Connecticut General Statutes (CGS) and as amended by Public Act 02-121 which requires that State-sponsored actions that have the potential for causing negative environmental impact be evaluated. That evaluation, in the form of an EIE, is to be made available to government agencies, the public, and other interested parties for review and comment. The sponsoring agency for this EIE is the State of Connecticut Department of Energy and Environmental Protection (CT DEEP).

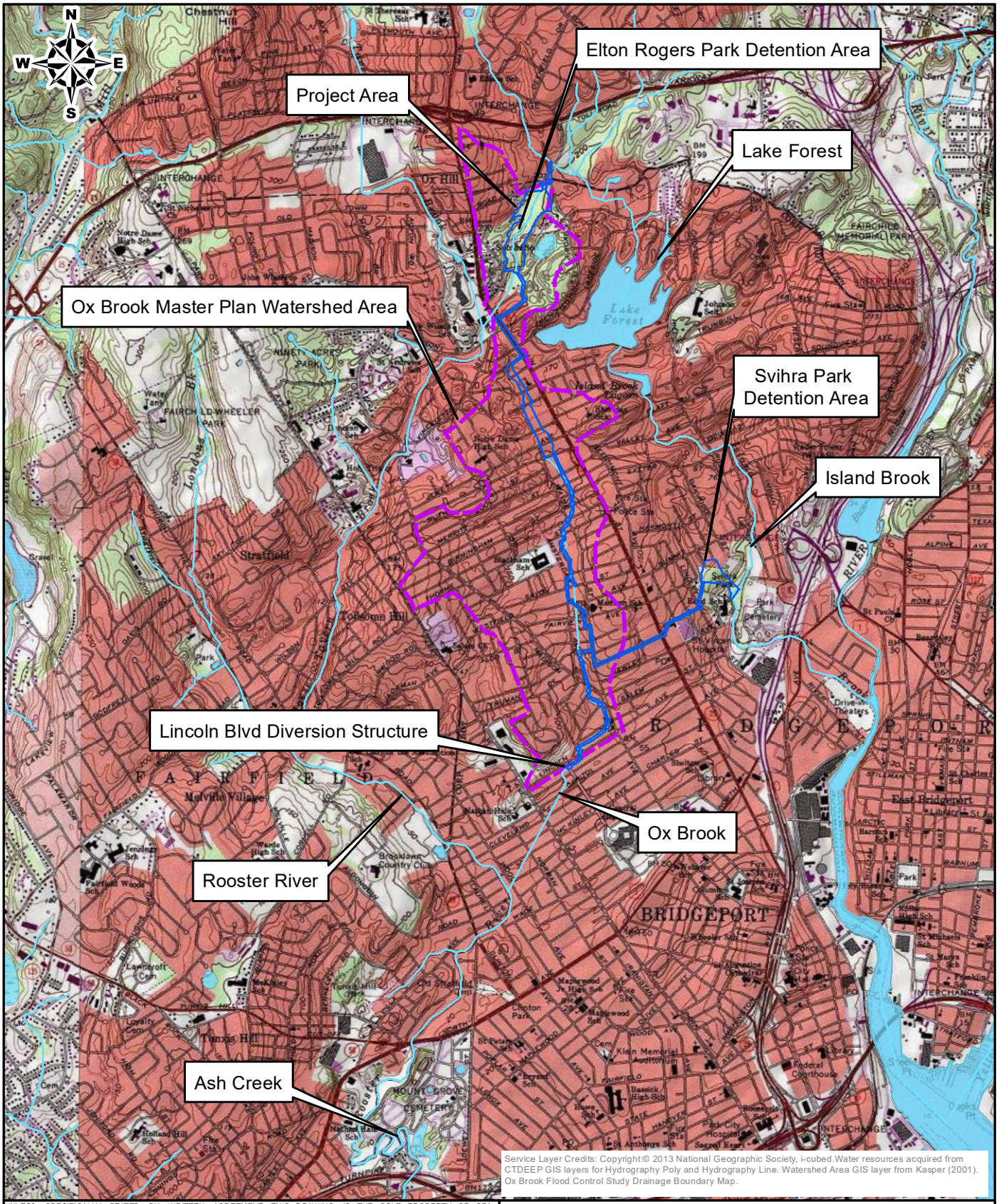
1.1 BACKGROUND

Bridgeport has a long history of flooding along various watercourses and coastal areas of the city, including along Ox Brook. There is an established history of flooding and flood-related impacts along Ox Brook over the past 50+ years, including recent storms, such as a flash flooding event in September 2018 and, most recently, flooding associated with the remnants of Hurricane Ida in September 2021.

Figure 1-1 is a Locus Map showing Ox Brook's location within the city of Bridgeport, as well as its relationship to other local watercourses in the city. Ox Brook flows north to south through residential and commercial areas in the city, eventually discharging to the Rooster River. The brook has its headwaters in Elton Rogers Park upstream of an existing dam and has a relatively narrow watershed, as defined by Kasper Group (2001). The dam was constructed circa 1872 by the Bridgeport Hydraulic Company and was in use until the early 1930s. In its current deteriorated condition, the dam no longer impounds a significant amount of water and acts as a flow-through system. Rooster River has several main tributaries located to the west of the Ox Brook watershed, including Horse Tavern Brook and Londons Brook. Rooster River eventually transitions to a tidally influenced watercourse, Ash Creek, which discharges to Long Island Sound.

Ox Brook is an urbanized watercourse flowing through residential and commercial areas with a mix of open channel areas and piped/culverted sections, with piped sections or box culverts at street crossings. Within Elton Rogers Park, upstream and downstream of an existing dam within the park, there are open channel sections. Just north of Luther Street, the brook enters a subsurface piped system that runs along Luther Street, then crosses Main Street to Lourmel Street. Based on existing conditions mapping from Kasper Associates, from Lourmel Street to Glendale Avenue the brook continues within pipes. Between Glendale Avenue and Englewood Avenue, there is a short open channel section. Between Englewood Avenue and Stoehrs Place, the brook is again located within a pipe. From Stoehrs Place to Savoy Street, the brook is primarily open channel sections, with piped sections or culverts at street crossings. South of Savoy Street, the brook is culverted to Westfield Avenue, with a mix of culverted and open channel sections between Westfield and Tremont Avenues. The brook is culverted to Harlem Avenue, from which point it is primarily open channel sections with culverts at street crossings down to Lincoln Boulevard, where it enters what is known as the Lincoln Boulevard diversion structure (constructed as part of prior downstream flood improvement projects), which diverts a certain level of flows to the Rooster River. The remaining flows continue within Ox Brook.

The City of Bridgeport and the adjacent municipality of Fairfield have undertaken other flood control projects over the years, including projects on the Rooster River and sections of Ox Brook. Studies, planning, modeling, and design of flood control improvements in the Ox Brook corridor have spanned four decades.



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SCALE IN FEET

OX BROOK FLOOD CONTROL MASTER PLAN EIE
BRIDGEPORT, CT

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
CITY OF BRIDGEPORT
BRIDGEPORT, CT

LOCUS MAP

PROJ MGR: JRB	REVIEWED BY: TEJ	CHECKED BY: SLL	FIGURE	
DESIGNED BY: JRC	DRAWN BY: JRC	SCALE: 1 in = 3,000 ft	1-1	
DATE: FEBRUARY 2022	PROJECT NO: 15.0166920.00	REVISION NO: -	SHEET NO: 1 OF 1	

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Studies related to flooding along Ox Brook began in the 1970s and culminated in a 2001 Ox Brook Flood Control Study with a master plan of improvements prepared by Kasper Group, Inc. (also referred to as Kasper Associates, or Kasper). Since that time, a complete design for the first phase of the master plan of improvements was undertaken by another consultant, Tighe and Bond.

1.2 PURPOSE AND NEED

Bridgeport has a long history of flooding within the Ox Brook corridor and in other areas of the city. Studies of flooding along Ox Brook date back to at least the 1970s; however, development of a comprehensive solution has taken decades. Due to the scale of the flooding problems and the cost of potential solutions, including the Proposed Action, full implementation of the Project is anticipated to require a significant period of time.

Repeated flooding events within the Ox Brook watershed have resulted in continued:

- Property damages to residential structures (homes, garages, outbuildings) and commercial/industrial businesses;
- Infrastructure damage and the need for maintenance personnel to address blockages and damages;
- Roadway and sidewalk closures and detours affecting vehicles, bicycles, and pedestrians;
- Safety hazards posed by floodwaters and the need for emergency response by Fire Department, Police Department, and emergency medical services to establish and maintain detours and road closures, coordinate evacuations, and provide other assistance to those affected by flooding;
- Health hazards associated with sewer overflows and/or interruptions of services or other water quality impacts associated with floodwaters; and
- Trauma and negative effects on homeowners due to repeated losses and risks associated with flooding.

While damages associated with individual storms have been estimated for some events, as discussed in later sections of this EIE, overall damages are difficult to track, as many residents and businesses do not report damages to the City or seek Federal Emergency Management Agency (FEMA) reimbursement. In addition, because of the duration of time that flooding issues have existed, documentation of damages from decades prior no longer exist within City records.

Photos 1-1 and 1-2, taken by City staff, show conditions in the Ox Brook corridor during a September 2018 storm.



Photo 1-1. Flooding at Woodside Avenue at Main Street



Photo 1-2. Flooding Along Goldenrod Avenue, with Emergency Personnel Onsite

The City's Office of Emergency Management & Homeland Security/Local Emergency Planning Committee (OEMHS/LEPC) also has a listing of streets that repeatedly flood (2018), which includes many streets/intersections in the vicinity of the Ox Brook corridor including:

- Main Street/Frenchtown Road
- Main Street/Goldenrod Avenue
- Main Street/Stoehrs Place
- Main Street/Fern Street
- Wayne Street/Fern Street
- Wayne Street/Stoehrs Place
- Wayne Street/Goldenrod Avenue
- Wayne Street/Jewett Street
- Wayne Street/Ruth Street
- Fairview Avenue/Wayne Street
- Amsterdam Avenue/Harlem Street
- Amsterdam Avenue/Westfield Avenue
- Savoy Street/Amsterdam Avenue
- Savoy Street/Cornell Street
- Savoy Street/Marsdale Avenue
- Lincoln Avenue/Lincoln Boulevard
- Lincoln Avenue/Arlington Street
- Lincoln Boulevard/Garfield Avenue

The purpose of the Proposed Action is to alleviate chronic flooding along the Ox Brook corridor through implementation of the six-phase Ox Brook Flood Control Master Plan Project. Implementation of the Master Plan, including construction of detention/storage areas with diversions, open channel improvements, and piped and culverted section improvements, will reduce the frequency, duration, and severity of flooding along Ox Brook, resulting in reduced and/or avoided flood-

related risks and damages for residents and businesses in the Project Area defined herein. Implementation of the Proposed Action would result in reduced flood-related property damages, reduced demands on emergency services in the city, reduced safety/health risks and trauma for residents/businesses, and reduced infrastructure impacts.

The 2001 Kasper Master Plan was designed such that, when fully implemented, the program would result in both Island Brook and Ox Brook being able to *"adequately convey waters resulting from a 100-year storm event."* The 2001 report by Kasper suggests that the proposed improvements were designed for the 100-year storm at that time. However, it must be noted that today's 100-year return frequency, 24-hour duration rainfall depth for Bridgeport (8.43 inches), as published in the National Oceanic and Atmospheric Administration (NOAA*) Atlas 14, Volume 10, Precipitation-Frequency Atlas of the United States, Northeastern States*, released in November 2015, is about 17% greater than the rainfall depth used by Kasper (7.20 inches), which would have been defined by the precipitation frequency estimates available from Technical Paper No. 40 (TP-40), "Rainfall Frequency Atlas of the U.S.", 1961. Therefore, what would have been considered a "100-year storm" in 2001 would now be a storm of a smaller (more frequent) return interval, while today's "100-year storm" is more significant than what was considered in 2001 to be the "100-year storm." Generally speaking, any flow rates or volumes identified by Kasper in the development of the Master Plan and referenced in this EIE document as the "100-year storm" for Project Phases 2-6 are based on the 100-year return frequency, 24-hour duration rainfall depth for Bridgeport of 7.20 inches from TP-40. Analyses performed by Tighe & Bond for the design of Phase 1 as described herein are based on the NOAA Atlas 14 rainfall depths; therefore, any references to the "100-year storm" in the context of Phase 1 of the Master Plan in this EIE document are based on a rainfall depth of 8.43 inches.

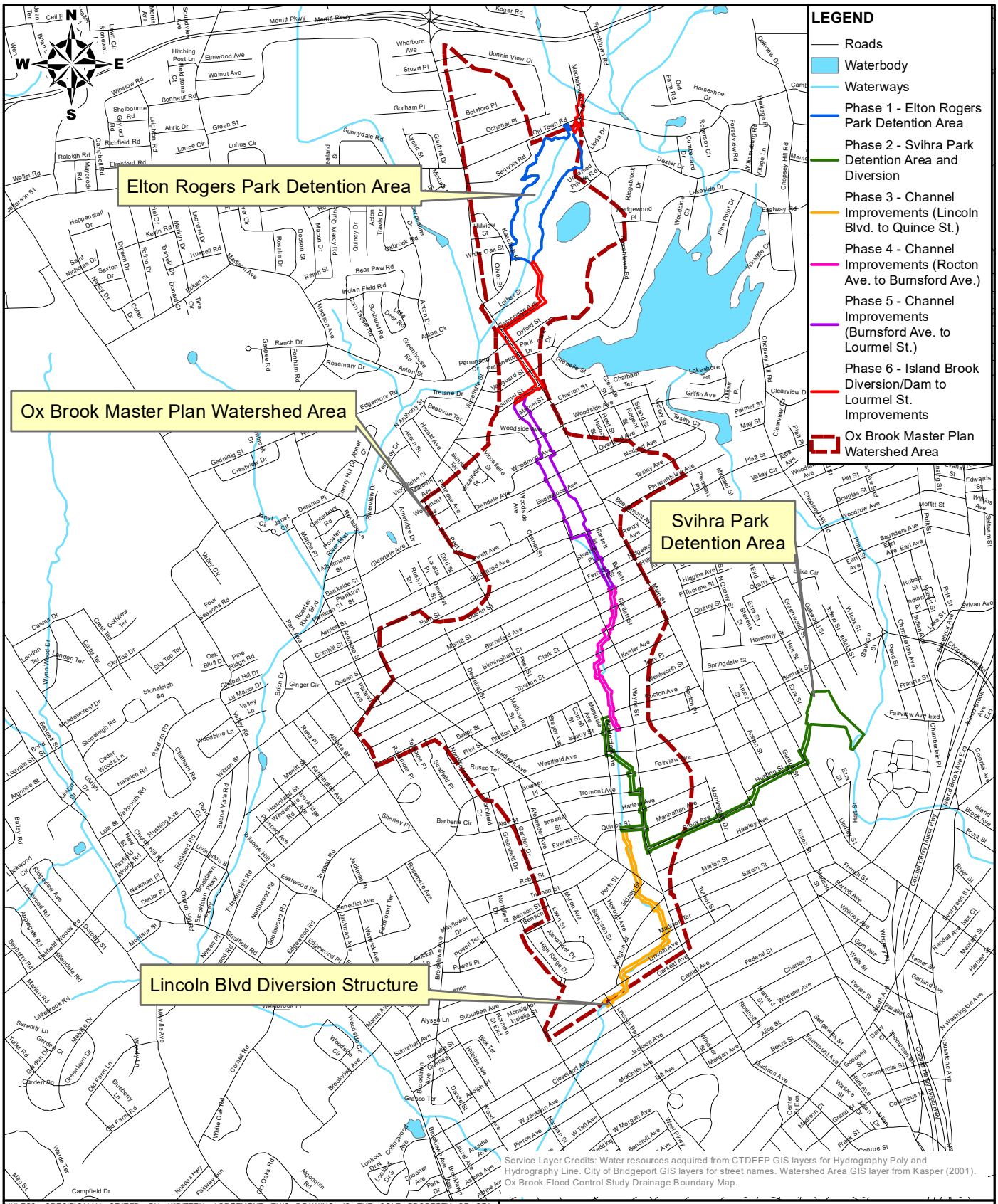
While this change does not affect either the purpose or the need for the Project, it is important to note because, during final Project design for later phases of the Project, the ability to provide adequate conveyance for the modern 100-year storm event may result in differing individual Project components, or the design may need to provide for flood protection for a lesser storm event for feasibility or cost considerations. Phase 1 of the Project, which is the only phase that currently has state funding for construction, has been designed to account for the most recent engineering guidance relative to design storms.

1.3 DESCRIPTION OF THE PROPOSED ACTION

The Proposed Action is the implementation of the six-phase Ox Brook Flood Control Master Plan Project as described in this EIE and as designed and conceptualized by the City of Bridgeport and its consultants. This Project was developed over a period from the 1970s through the early 2000s, with more recent work in the last five years for the first phase of the Project, as represented in drawings and an engineering report by Tighe & Bond (*Elton Rogers Park Dam Rehabilitation Engineering Report* (September 30, 2018) and *City of Bridgeport, Connecticut, Elton Rogers Park Dam Reconstruction, CTDEEP Dam ID #1512, Dam Construction Permit Submission, Complete Set 34 Sheets* (June 24, 2019 revision and an earlier set dated September 30, 2018)) and by Kasper Group Inc. (Kasper) in their reports entitled *Ox Brook Flood Control Study*, dated April 30, 2001 and *Interim Report – Hydrology and Hydraulics – Ox Brook*, dated 1992. **Appendix A** includes the 2001 Kasper study, as well as the Tighe & Bond drawings.

The Ox Brook Flood Control Master Plan Project extends generally from Elton Rogers Park to the downstream Project limit at Lincoln Boulevard, as shown in **Figure 1-2**. The contributing watershed to the Ox Brook Flood Control Master Plan Project extends from its headwaters in Trumbull, north of Elton Rogers Park, to Lincoln Boulevard and is approximately 1.1 square miles in area.

Lincoln Boulevard is the downstream limit of the Project, as this location is the site of a previously constructed diversion structure that limits excess flood flows into the lower section of Ox Brook and conveys them directly to the downstream Rooster River. The Proposed Action does not include any work downstream of the diversion structure.



Service Layer Credits: Water resources acquired from CTDEEP GIS layers for Hydrography Poly and Hydrography Line. City of Bridgeport GIS layers for street names. Watershed Area GIS layer from Kasper (2001). Ox Brook Flood Control Study Drainage Boundary Map.

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SCALE IN FEET

OX BROOK FLOOD CONTROL MASTER PLAN EIE
BRIDGEPORT, CT

PROJECT PHASING PLAN

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
CITY OF BRIDGEPORT
BRIDGEPORT, CT

PROJ MGR:	JRB	REVIEWED BY:	TEJ	CHECKED BY:	SLL
DESIGNED BY:	JRC	DRAWN BY:	JRC	SCALE:	1 in = 2,000 ft
DATE:	FEBRUARY 2022	PROJECT NO:	15.0166920.00	REVISION NO:	-

FIGURE **1-2**

SHEET NO: 1 OF 1

Pipe and structure sizes included in the following description are those outlined in the previous studies, including the *Elton Rogers Park Dam Rehabilitation Engineering Report*, for City of Bridgeport, Connecticut, by Tighe & Bond, September 30, 2018 (Phase 1) and the *Ox Brook Flood Control Study*, by Kasper Group Inc. (Kasper), Bridgeport, Connecticut, April 30, 2001, stamped "PRELIMINARY" (Phases 2-6).

While the Phase 1 portion of the Master Plan has been fully designed by Tighe and Bond and is not expected to change significantly, the elements described for Phases 2-6 may vary from what is discussed in this EIE, once the final design of each phase is undertaken. Phases 2-6 have been designed only to a preliminary level, as part of the Kasper Master Plan work which culminated in 2001. Since the date of the Kasper Master Plan (2001), engineering considerations related to design storm precipitation values and climate change have resulted in modifications to standard practices. While the final design of Phase 1 has considered updated engineering design values since that work is recent, the preliminary level of design for the remaining phases will need to be updated with these considerations during the final design process. As such, the preliminary design sizes are provided here for general understanding of Project scale and to assist with impact evaluations, with the understanding that the final design may result in modifications. Should the final design result in significant changes to projected impacts, the CEPA process may be revisited for the applicable phases in coordination with OPM.

Because of uncertainties in the final design and impacts, assumptions were made to define the Project Area for this EIE. To define the Project Area for the purposes of CEPA review of potential project-related environmental impacts, GZA used existing information from the 2001 Kasper Master Plan, the Tighe & Bond Phase 1 final design documents, and other available city and state of Connecticut data as the primary sources to identify potential impact areas. For Phase 1, impact areas are well-defined and include areas that would be subject to inundation/use for detention of stormwater runoff as a result of the dam rehabilitation, areas to be affected by dam and dike/berm construction/rehabilitation, and staging and access areas for construction.

For Phases 2-6 of the Project, information from Kasper is preliminary, such that a definitive Project Area is not well-defined. Because Phases 2-6 are only at the preliminary level of design, establishing a corridor width for potential impacts allows for the conservative assessment of potential project impacts, acknowledging that final design may result in minor changes to channel widths or alignments based on updated final modeling, updated survey, and final engineering and design. Based on the proposed improvements, the Project Area (as shown on **Figures 1-1 and 1-2**) was defined as a minimum offset of 25 feet from either side of the proposed watercourse or piped section centerline, establishing a minimum 50 foot (ft) wide corridor as the Project Area along most of the length of the Project. At roadways, bridges, and culvert crossings, an offset of 50 feet on either side of the centerline (100 ft wide corridor) was established as the Project Area within the roadway right-of-way. The wider offset at roadway crossings is meant to reflect the culvert and pipe street crossing replacements which may result in the potential need for utility relocations or modifications and potential staging. In areas where the proposed centerline or work area was not well-defined in the 2001 Kasper report, a wider offset was used to reflect that uncertainty. The Project Area defined for this EIE is anticipated to be conservative and representative of areas where direct Project impacts may occur related to piped section, culvert, and open channel improvements, as well as the construction of detention/storage areas.

The six (6) phases of the Master Plan are described below and depicted geographically in **Figure 1-2**. The phases are organized chronologically in the order that the Project would be constructed. The phases must be completed in this order to address the flood control improvements in a manner that would not cause downstream impacts.

- **Phase 1:** The first phase of the Master Plan is the construction of an impoundment within Elton Rogers Park, via rehabilitation of an existing dam and construction of two dikes within the park property. The purpose of the impoundment is to provide detention and reduce the peak flow discharged to Ox Brook. As envisioned in the 2001

Kasper report, Phase 1 originally included the construction of an 18-inch pipe discharging flow from the dam to Ox Brook at Lourmel Street. Subsequent studies by Tighe & Bond determined that construction of the outlet pipe to Lourmel Street could be deferred to the final phase of the Master Plan. For the Proposed Action, the 18-inch pipe is being considered as part of Phase 6.

- **Phase 2:** The second phase of the Master Plan includes three components: (1) construction of a detention area for storage within Svihra Park with a 18-inch outlet pipe to Island Brook, (2) construction of 3,850 linear feet (LF) of 9-ft x 5-ft box culvert in Wayne Street, Bronx Avenue, and Hunting Street, to divert Ox Brook flows to the new detention area, and (3) construction of a 12-ft x 5-ft box culvert to reroute a section of Ox Brook from a point approximately 100 feet south of Rocton Avenue along Amsterdam Avenue, through several backyards, down Tremont Avenue to Wayne Street to Quince Street. From Quince Street, a 60-inch diameter pipe will discharge a specified maximum flow back to the existing Ox Brook channel. The remainder of the flow will be discharged to the 9-ft x 5-ft box culvert at Wayne Street to the Svihra Park diversion. The existing Ox Brook channel in the affected reach will remain in place to convey local runoff. This Phase is dependent on the purchase of a 9.9-acre private parcel adjacent to City-owned Svihra Park and Read Elementary School lands, as the detention area would be primarily located on this parcel which would become part of the park. The City is in the process of pursuing this land acquisition. References in this document to Svihra Park are written as though this parcel is part of Svihra Park.

- **Phase 3:** The third phase of the Master Plan includes channel and crossing improvements from Lincoln Boulevard upstream to Quince Street. Open channel sections will be improved to either trapezoidal or rectangular cross-sections within this reach. Five (5) street crossings will be improved with box culverts.

- **Phase 4:** The fourth phase of the Master Plan includes channel and crossing improvements from Rocton Avenue to Burnsford Avenue. Open channel sections will be improved to either trapezoidal or rectangular cross-sections within this reach. The culvert beneath Burnsford Avenue will be replaced. Three (3) additional crossings will be improved with larger diameter culverts.

- **Phase 5:** The fifth phase of the Master Plan includes channel and crossing upgrades from Burnsford Avenue upstream to Lourmel Street. The existing open channel section between Burnsford Avenue and Stoehrs Place will be improved to a trapezoidal cross-section. Between Lourmel Street and Stoehrs Place, the existing brook is piped. As an element of the project, improved piped sections will be installed, ranging in size from 54-inches to 84-inches in diameter, increasing in size as the brook flows downstream.

- **Phase 6:** The final phase of the Master Plan includes construction of the Island Brook diversion to the Elton Rogers Park detention area. This will consist of approximately 650 LF of 10-ft x 3-ft box culvert in Old Town Road. This culvert size was estimated by Kasper based on the design diversion flow of 200 cubic feet per second (cfs), but the Tighe & Bond design indicated that a diversion flow of 250 cfs could be accommodated. This phase would also include the construction of an 18-inch pipe discharging flow from the dam to Ox Brook at Lourmel Street, as well as one area of additional excavation within the proposed impoundment area from Phase 1 in Elton Rogers Park. This overexcavation area was originally designed to be part of Phase 1, but due to cost considerations and the fact that the additional detention volume would not be needed until the Island Brook diversion was completed, this additional excavation work was moved to Phase 6.

The following table (**Table 1-1**) summarizes proposed improvements based on the 2001 Kasper report and updated Tighe & Bond work:

Table 1-1. Summary of Proposed Action Elements

Project Phase	Section	Improvement/Proposed Section	Easement or Acquisitions Proposed?
1	Elton Roger's Park Detention Area	Dam rehabilitation and construction of two berms	No
2	Svihra Park Detention Area	Detention area with berm construction, with piped overflow to Island Brook	Yes – acquisition of 9.9-acre parcel next to Svihra Park.
2	From between Rocton Ave. and Savoy St., along Amsterdam Ave., over to and across Fairview Ave., to Tremont Ave., along Wayne St.	Box culvert (12 ft W x 5 ft H), with existing system to remain	Yes
2	Along Quince St. between Amsterdam Ave. and Wayne St.	60" diameter pipe	No
2	Diversion down Wayne St. from Quince St., along Bronx Ave., Hunting St., and to end of Fairview Ave.	Box culvert (9 ft W x 5 ft H)	Yes
3	Quince St. to Madison Ave.	Vertical wall concrete channel (9 ft W x 6 ft H)	No
3	Madison Ave.	Box culvert (10 ft W x 6 ft H)	No
3	Madison Ave. to Sidney St.	Trapezoidal riprap channel (12 ft W bottom, 1.5:1 H:V side slopes, 6 ft H)	Yes
3	Sidney St.	Box culvert (10 ft W x 6 ft H)	No
3	Sidney St. to Arlington St.	Vertical Wall Concrete Channel (10 ft W x 6 ft H)	No
3	Arlington St.	Box culvert (10 ft W x 6 ft H)	No
3	Arlington St. to Madison Ter.	Vertical Wall Concrete Channel (10 ft W x 6 ft H)	No
3	Madison Ter. to area between Madison Ter. and Lincoln Ave.	Box culvert (10 ft W x 6 ft H)	No
3	Area between Madison Ter. and Lincoln Ave. to Arlington St.	Vertical Wall Concrete Channel (10 ft W x 6 ft H)	No
3	Short section just upstream of Lincoln Ave.	Trapezoidal riprap channel (12 ft W bottom, 1.5:1 H:V side slopes, 6 ft H)	Yes
3	Lincoln Ave.	Box culvert (10 ft W x 6 ft H)	No
3	Lincoln Ave. to Lincoln Blvd.	Vertical Wall Concrete Channel (10 ft W x 6 ft H)	No
4	Burnsford Ave. to Thorme St.	Trapezoidal riprap channel (8 ft W bottom, 1.5:1 H:V side slopes, 6 ft H) with 108" diameter piped culvert crossings at streets	Yes
4	Thorme St. to Savoy St.	Trapezoidal riprap channel with channel dredging (10 ft W bottom, 1.5:1 H:V side slopes, 6 ft H)	Yes
5	Lourmel St. to Glendale Ave.	54" diameter pipe	Yes
5	Glendale Ave. to Jewett Ave.	72" diameter pipe	Yes
5	Jewett Ave. to Stoehrs Pl.	84" diameter pipe	Yes
5	Stoehrs Pl. to Burnsford Ave.	Trapezoidal riprap channel (10 ft W bottom, 1.5:1 H:V side slopes, 6 ft H)	No

Project Phase	Section	Improvement/Proposed Section	Easement or Acquisitions Proposed?
6	Between Machalowski Rd. and Frenchtown Rd.	Overflow diversion chamber	Yes
6	Intersection of Old Town Rd. and Frenchtown Rd. to Elton Rogers Park detention area	Box culvert (10 ft W x 3 ft H)	No
6	Elton Rogers Park detention area dam outflow to Lourmel St.	18" Pipe	Yes
6	Elton Rogers Park detention area	Overexcavation area construction for additional detention	No

1.4 PUBLIC PARTICIPATION AND AGENCY COORDINATION

Because of the long history of flooding, the City of Bridgeport has sought state assistance in funding programs to reduce flooding across the city, including along the Ox Brook corridor. Because of the complexity of the solutions needed, the City is pursuing a phased approach to flood mitigation, as described in detail in this EIE. The State Bond Commission approved $5.14 million in funding in May 2017 to support the first phase of the Ox Brook Flood Control Project. No funding has been allocated or received for subsequent phases of the project at this time. This CEPA process is being conducted to address the entire proposed flood mitigation plan as a whole to provide a comprehensive overview of potential impacts and mitigation, as is preferred for multi-phase projects, although funding has only been sought and granted for the first phase of the Project.

As part of the CEPA process, public and agency coordination and involvement are key. The CEPA process provides two formal periods for public and agency input and participation. The first is during the scoping process and the second is upon release of the EIE.

The CEPA process for this Project was initiated with a public scoping notice. A Notice of Scoping was placed on the Council of Environmental Quality's (CEQ) *Environmental Monitor* website on October 5, 2021, and re-posted in the *Environmental Monitor* on October 19, 2021, and November 2, 2021. The Notice of Scoping and supplemental materials regarding the Project were also posted on the City of Bridgeport's website to inform residents and businesses within the city of the scoping meeting. The public Scoping Meeting was held virtually (due to the ongoing COVID-19 pandemic) on Monday October 18, 2021, at 7:00 PM via Zoom®. Representatives from CT DEEP, the City of Bridgeport, and GZA were in attendance at the meeting, but no members of the public attended and no comments were received during the meeting. The City of Bridgeport subsequently posted the Scoping Meeting presentation slides and a transcript of the Scoping Meeting on its website for public review. During the scoping period which ended November 4, 2021, no public comments on the Project were received and no state agencies or departments provided comments. As part of the EIE process, the State Historic Preservation Office (SHPO) was contacted and basic Project information provided. The SHPO indicated that because a Phase 1A cultural resources study was being conducted and included with the EIE, they would wait until the EIE is published and provide comments at that time.

The original Notice of Scoping, Scoping Meeting presentation slides, Scoping Meeting transcript, and Post-Scoping Notice are included in **Appendix B** of this EIE. As no public or agency comments were received on the Project, none are appended to this document.

Notice of EIE availability for public and agency review and comment was posted in the Environmental Monitor on February 22, 2022, and is also being published in the Connecticut Post and La Voz Hispana. A public meeting on the EIE will be held as advertised. An electronic copy of this EIE will be available for review on DEEP's website for public notices. In addition, paper copies will be available for review in the city of Bridgeport at the Town Clerk's Office and the North End Library.

This EIE was also provided directly to the following agencies for review and comment (a complete distribution list with addresses is included in **Appendix C**):

- U.S. Army Corps of Engineers, New England Division (USACE)
- State of Connecticut Office of Policy and Management (OPM)
- Connecticut Council on Environmental Quality (CEQ)
- State of Connecticut Department of Energy and Environmental Protection
- State of Connecticut Historic Preservation Office (SHPO)
- Metropolitan Council of Governments (MetroCOG)
- The Honorable Marilyn Moore, State Senator, Senate District 22
- The Honorable Dennis Bradley, State Senator, Senate District 23
- The Honorable John F. "Jack" Hennessy, State Representative, House District 127
- City of Bridgeport
    - Town Clerk
    - Mayor Gamin
    - City Council Members (132nd, 133rd, 134th, and 135th Districts)
    - Police Department
    - Parks & Recreation Dept.
    - Engineering Dept.
    - Office of Emergency Management and Homeland Security
    - Public Facilities Department
    - Water Pollution Control Authority
    - Zoning Department
    - Office of Planning and Economic Development
    - North Branch Library
- Lake Forest Association

2.0 ALTERNATIVES ANALYSIS

The following subsections describe each alternative and subalternative considered during project development. Included is a summary of the relative impacts of each alternative/subalternative on natural, cultural, and socioeconomic resources, as well as a summary of the costs and benefits of each.

Alternatives and subalternatives considered are as follows:

- No Action Alternative
- Ox Brook Flood Control Master Plan Alternative
- Phase 1 Subalternates from Tighe & Bond (Subalternatives to Kasper Master Plan elements)
- Phases 2-6 Subalternates to Kasper Master Plan elements

2.1 NO ACTION ALTERNATIVE

The No Action Alternative is required to be analyzed as part of the CEPA process. For the Project, the No Action Alternative would result in Ox Brook within the Project Area remaining in its current state, with no alterations or improvements to its culverts and street crossings, open channel sections, and piped sections. Similarly, no improvements or work would occur within Elton Rogers Park, and the existing dam would remain in its current state. The capacity of the existing Ox Brook system would remain generally the same in terms of flow rates and the limited detention capacity of the dam at Elton Rogers Park. Existing insufficient infrastructure would continue to degrade and perform inadequately over time, with no improvements, other than those that may be undertaken by the City in response to storm events and emergencies in the event of failure, blockage, necessary flood response, or issues related to individual system components. The No Action Alternative would not provide opportunities to address climate change, with increasingly more frequent, intense storm events resulting in more frequent flooding within the system and increases in the extent of flooding and damages.

The No Action alternative has been determined to be unacceptable by the City of Bridgeport. Under the No Action Alternative, the system capacity and floodplain limits would remain as-is or increase in extent over time in response to changes in storm events and climate change.

Under this alternative, the following conditions would persist or worsen over time:

- Continued potential for public health and safety concerns from flooding;
- 403 land parcels in the Project Area would remain at least partially within the FEMA designated Zone A (1% Annual Chance Flood Hazard Area). Any property that is backed by a federal mortgage loan would still be required to obtain flood insurance;
- Continued flooding of parcels along Ox Brook associated with storm events will result in additional flood damage and financial losses; and
- Continued need for diversion of City resources and emergency response agencies (police, fire, ambulance) before, during, and after events with the potential for flooding.

For these reasons, the No Action Alternative has been dismissed, as it does not satisfy the basic purpose and need to alleviate flooding in the Ox Brook corridor within the city of Bridgeport.

2.2 OX BROOK FLOOD CONTROL MASTER PLAN ALTERNATIVE

As previously identified in Section 1.3 (Description of the Proposed Action), the Ox Brook Flood Control Master Plan is a six (6) phase project to improve flood control in the Ox Brook watershed in the City of Bridgeport. It was developed by the City and its consultants, based on flood control studies performed over a period from the 1970s through the early 2000s, namely Kasper Group, in reports entitled *Ox Brook Flood Control Study*, dated April 30, 2001 and *Interim Report – Hydrology and Hydraulics – Ox Brook*, dated 1992. The first phase of the Project, which includes development of flood storage through improvements to an existing dam and creation of additional berms (dikes) in Elton Rogers Park, has been subject to more recent engineering studies and design as detailed in the *Elton Rogers Park Dam Rehabilitation Engineering Report* (Tighe & Bond, September 30, 2018) and *City of Bridgeport, Connecticut, Elton Rogers Park Dam Reconstruction, CTDEEP Dam ID #1512, Dam Construction Permit Submission, Complete Set 34 Sheets* (Tighe & Bond, June 24, 2019). **Appendix A** includes the 2001 Kasper study, as well as the 2018 and 2019 Tighe & Bond drawings (note that the earlier set of Tighe & Bond drawings is included because it shows an overexcavation area which would be part of Phase 6).

The Project Area for the Master Plan extends generally from Elton Rogers Park at the north end to its downstream limit at Lincoln Boulevard to the south, as shown in **Figure 1-2**. The pipe and structure sizes included in this alternatives discussion are those outlined in the previous studies, including the *Elton Rogers Park Dam Rehabilitation Engineering Report*, for City of Bridgeport, Connecticut, by Tighe & Bond, September 30, 2018 (Phase 1) and the *Ox Brook Flood Control Study*, by Kasper Group Inc. (Kasper), Bridgeport, Connecticut, April 30, 2001, stamped "PRELIMINARY" (Phases 2-6). As discussed in the description of the Proposed Action in Section 1, while the Phase 1 portion of the Master Plan has been fully designed and is not expected to change significantly, the elements described for Phases 2-6 may vary from what is stated here once the final design of each phase is undertaken. However, the preliminary design sizes are provided here for general understanding of project scale and to assist with impact evaluation.

The six phases of the Master Plan are summarized below and more fully described in Section 1.3.

- **Phase 1:** Construction of an impoundment within Elton Rogers Park, via rehabilitation of the existing dam and construction of two dikes within the park property.

- **Phase 2:** Three main components: (1) construction of a detention area for storage within Svihra Park (and adjacent private parcel) with a 18-inch outlet pipe to Island Brook, (2) construction of 3,850 linear feet (LF) of 9-ft x 5-ft box culvert in Wayne Street, Bronx Avenue, and Hunting Street, to divert Ox Brook flows to the new detention area, and (3) construction of a 12-ft x 5-ft box culvert to reroute a section of Ox Brook from a point approximately 100 feet south of Rocton Ave. to Quince Street. From Quince Street, a 60-inch diameter pipe will discharge a specified flow back to the existing Ox Brook channel, with the remaining flow will be discharged to the Svihra Park diversion. The existing Ox Brook channel in the affected reach will remain in place to convey local runoff.

- **Phase 3:** Channel and crossing improvements from Lincoln Boulevard upstream to Quince Street. Open channel sections will be improved to either a trapezoidal or rectangular cross-sections, with five (5) street crossings improved with box culverts.

- **Phase 4:** Channel and crossing improvements from Rocton Avenue to Burnsford Avenue. Open channel sections will be improved to either a trapezoidal or rectangular cross-sections, the culvert beneath Burnsford Avenue will be replaced, and three (3) additional crossings will be improved with larger diameter culverts.

- **Phase 5:** Channel and crossing upgrades from Burnsford Avenue upstream to Lourmel Street. The existing open channel section between Burnsford Avenue and Stoehrs Place will be improved to a trapezoidal cross-section.

Between Lourmel Street and Stoehrs Place, the existing brook is piped. As an element of the project, improved piped sections will be installed, ranging in size from 54-inches to 84-inches in diameter.

- **Phase 6:** Construction of the Island Brook diversion to the Elton Rogers Park detention area, with approximately 650 LF of 10-ft x 3-ft box culvert in Old Town Road. This phase would also include the construction of an 18-inch pipe discharging flow from the dam to Ox Brook at Lourmel Street and additional excavation to increase storm-water detention volume within Elton Rogers Park.

The Master Plan incorporates a number of improvements that can be categorized as follows:

- **Upstream Storage** – construction of upstream detention areas for the temporary storage of stormwater runoff;
- **Flow Diversion** – Re-routing of flows to new detention areas and diverting water on a more regional approach between stream systems;
- **Structural** – reconstruction or replacement of culverts or other hydraulic structures;
- **Geometric** – channel depth and width modifications, channel reconfigurations; and
- **Properties** – requiring easements or acquisition for Master Plan improvements.

In locations where open channel sections are being improved to either a trapezoidal or rectangular cross-section, the trapezoidal cross-section, to be lined with riprap, has been specified, unless lateral constraints exist which would require a more narrow, rectangular cross-section.

Deviations in alignment from the existing channel have been proposed in locations where the alternate alignment would be necessary to avoid construction in congested areas, to facilitate construction by minimizing temporary easement access on private property and excessive clearing, to facilitate future access for inspection and maintenance, and to minimize ancillary facilities such as fencing, trash racks, debris collectors, and appurtenances for safety protection.

For Phase 1 of the Master Plan, Tighe & Bond initially produced hydrologic and hydraulic (H&H) analyses for Ox Brook in 2015 and finalized its analyses in 2018 and 2019. These analyses focused on Phase 1 flood control improvements through the increased detention capacity and rehabilitation of the dam in Elton Rogers Park. Tighe & Bond's effort did not include analysis or design for Phases 2 through 6, which include improvements to conveyance infrastructure downstream of the dam; however, the effort did provide basic consideration of the hydraulic contribution from the Phase 6 addition of a flood bypass channel from the adjacent Island Brook watershed to the Rogers Park dam reservoir. The Phase 1 flood control improvements have been designed to a level sufficient for application to CT DEEP for a Dam Construction Permit. The design includes detailed plans for improvements to the dam in Elton Rogers Park, including construction phasing and access, erosion and sediment control, wetland mitigation, and structural details for spillway and outlet construction.

For Phases 2-6 of the Master Plan, the design has progressed to the preliminary level only. In order to construct Phases 2 – 6 of the Master Plan, the hydrologic and hydraulic modeling will need to be updated with current methodologies and data, including rainfall data that reflects the current state of engineering practice (i.e., NOAA Atlas 14). Currently, there is no funding in place to advance the design and modeling for Phases 2-6, or for construction of Phases 2 – 6 of the Master Plan. As funding is secured for final design, the conclusive sizing and layout of the Master Plan components may change.

The combination of improvements to be implemented as part of the Master Plan are intended to reduce flooding along Ox Brook between Elton Rogers Park and Lincoln Boulevard without exceeding the flow capacity of the existing diversion chamber in Lincoln Boulevard at the downstream end of the Project Area. Improvements that would simply upsize pipes, culverts, and channels within the Project Area would result in excessive flows reaching the diversion chamber. To mitigate excess flows at the diversion chamber, the Master Plan incorporates a regional approach, with detention within Elton Rogers Park and Svihra Park and a series of transfers between the Ox Brook and Island Brook watersheds.

The 2001 report by Kasper describes the regional approach to address the Ox Brook flooding without shifting the flooding to other parts of the city, by transferring water between Ox Brook and Island Brook. The Master Plan, as developed by Kasper, requires that the peak flow discharged from the dam in Elton Rogers Park not exceed 20 cfs during the 100-year storm. The proposed Phase 1 dam improvements, designed by Tighe & Bond, will provide attenuation of peak flows such that the discharge from the dam will be limited to 20 cfs during the 100-year storm in keeping with the Kasper parameter. The Phase 1 improvements will provide benefit to the downstream Ox Brook, whether or not the remaining phases are constructed.

The maximum allowed 100-year flow at the Lincoln Boulevard diversion chamber is 1,000 cfs according to the Master Plan. To maintain this flow limit, in addition to the flow attenuation at Elton Rogers Park, the Master Plan includes a diversion of 676 cfs from Ox Brook near Savoy Street to a proposed detention area on a parcel adjacent to the current Svihra Park. The proposed detention area will attenuate flows to a maximum 100-year discharge of 20 cfs to Island Brook. The last phase of the Master Plan will be the diversion of flow from Island Brook to the impoundment in Elton Rogers Park. The Kasper study identified a maximum 100-year flow of 200 cfs to be diverted from Island Brook to Elton Rogers Park. Tighe & Bond designed the dam and impoundment to be able to safely accept a peak flow of 250 cfs, to account for the increase in the 100-year flow between 2001 and current estimates.

Table 1-1 in Section 1.3 summarizes the structural and geometric components of the Master Plan Alternative related to proposed hydraulic improvements to alleviate flooding associated with Ox Brook. The Master Plan alternative includes a number of actions that would require potential property easements or acquisitions, as much of the brook is along private properties. The table in Section 1.3 identifies areas where easements or acquisitions are currently anticipated to be required. Phase 1 is not anticipated to require easements or acquisitions, but subsequent phases (Phases 2-6) are. As final design continues for Phases 2-6, more detailed information will be determined as to what is needed, and the City will coordinate with individual owners, as discussed herein.

<u>Phase 1: Additional Detention in Elton Rogers Park</u>

Elton Rogers Park Pond Dam (CT Dam #1512) is currently listed on the CT DEEP "List of Registered Dams in CT with Owner Type, October 2020" as an unregistered Class A dam with multiple owners. A Class A dam, as defined by the Regulations of Connecticut State Agencies (RCSA) Sec. 22a-409-2, is a low hazard potential dam which, if it were to fail, would result in damage to agricultural land, damage to unpaved local roadways, or minimal economic loss. The factors used to evaluate and assign a hazard potential are the physical characteristics of the dam, such as the dam height and capacity of the impoundment, the location of the dam, the areas impacted by a failure of the dam, and potential damage to property, infrastructure, or threat to human life.

The proposed rehabilitated dam will have a height of 21 feet and an impoundment volume of 190 acre-ft at the dam crest. Design plans for Phase 1 (dam rehabilitation) are included in **Appendix A**. Given the development downstream of the dam in the watershed, a dam of the proposed size, if it were to fail, could be expected to result in probable loss of life, major damage to habitable structures, residences, including, but not limited to, industrial or commercial buildings, hospitals, convalescent homes, or schools, damage to major utility facilities, including public water supply, sewage treatment plants, fuel storage facilities, power plants, or electrical substations causing widespread interruption of these services, damage to arterial roadways, or great economic loss. Therefore, the rehabilitated dam would be a high hazard potential (Class C) dam under RCSA Sec. 22a-409-2, and must be designed to safely pass the Probable Maximum Flood (PMF) with 30 inches of freeboard (Tighe & Bond, 2018).

The Phase 1 dam improvements were designed to provide attenuation of peak flows in the watershed, such that the maximum flow to the downstream system at Luther Street would be 20 cfs during a 1% frequency storm (100-year storm). The 20 cfs value is based on the maximum flow allowed to the Luther Street drainage system based on the 2001 Kasper

study, as described above. Also, the potential for overtopping of Luther Street was evaluated for both the existing condition and with the improvements at Elton Rogers Park. The analysis shows that with the proposed improvements the flood flows will not exceed the 20 cfs limitation established in the 2001 study for Luther Street. Peak flow at Luther Street will be reduced from 89.2 cfs to 19.0 cfs, which constitutes a 78% reduction in flow. Luther Street is not expected to overtop for the 1% annual chance (100-year) storm, while it currently overtops for storms greater than a 50% annual chance (2-year) frequency under existing conditions.

The hydrologic analysis for the Tighe & Bond Phase I improvements design was based on precipitation depth data published by NOAA Atlas 14.

Since the proposed dam will have a high hazard potential due to downstream development, the dam's auxiliary spillway was designed to pass the PMF. The PMF for the project area was estimated by T&B based on 33 inches of precipitation in a 24-hour period, as indicated by charts in the National Weather Service's Hydrometeorological Report No. 51, June 1978. Based on the modeling, the required size of the auxiliary spillway would be 51 feet wide, and located on the main dam. The auxiliary spillway was set to elevation 201.0. The PMF water surface elevation is 202.2, which is almost four feet less than the dam crest of 206.0, allowing for freeboard.

The geometry of the proposed dam embankment was developed by matching the existing dam crest elevation, and flattening the upstream and downstream dam side slopes to an inclination of 2.5 horizontal to 1 vertical (2.5:1). The dam embankment cross-section includes fill placed upstream of the centerline of the embankment crest consisting of low permeability borrow for seepage cutoff purposes, overlain by a 2-foot thick layer of stone riprap to protect against erosion due to wave action. The low permeability borrow has a minimum thickness of two feet. On the downstream slope, the cross-section includes a filter sand blanket and toe drain to filter, collect, and discharge embankment seepage in a controlled manner. The toe drain consists of a drain pipe, surrounded by a minimum of 6 inches of crushed stone, surrounded by a minimum of 12 inches of filter sand. The filter sand blanket has a minimum thickness of 12 inches. There is additional granular fill with specific gradation requirements on the downstream slope. The downstream slope will have a grass surface for reduced construction cost and ease of visual inspection in comparison to stone riprap. The proposed dam embankment geometry was evaluated by Tighe and Bond for seepage and slope stability to verify that the design meets or exceeds recommended factors of safety.

The elevation at the crest of the existing dam is approximately 2.5 feet higher than the elevation at the northeast extent of the planned impoundment area, near the intersection of Old Town Road and Frenchtown Road. Therefore, if the impoundment were to fill to the dam crest, it would overtop the land at the northeast corner of the impoundment, without additional measures to contain flows. Accordingly. the Phase 1 design includes the construction of two dikes, or berms, at the northeast corner of the impoundment, near the intersection of Old Town Road and Frenchtown Road, to prevent overtopping and flooding into the Old Town and Frenchtown Road areas.

The outlet control structure for the proposed dam was designed with a lower level outlet consisting of a 6-inch orifice opening at Elevation 188.0, a mid-level outlet comprised of an additional 6-inch diameter orifice at Elevation 195.5, and a high-level outlet consisting of a 6-foot wide weir at Elevation 198.0. The structure includes a 48-inch ductile iron pipe at Elevation 188.0, equipped with a sluice gate to allow for drawdown of the pond for maintenance. The dam will discharge to the channel immediately downstream of the dam without installation of additional outlet piping.

The Tighe & Bond design for Phase 1 also considered some elements which will be part of Phase 6 of the Project, which will include enlargement of the existing impoundment by excavating an area of approximately 2.5 acres along the eastern side of the existing impoundment. This will provide additional detention volume necessary to attenuate peak outflows from the dam to the 20 cfs limit for the 100-year storm once the diversion from Island Brook is connected. Phase 6 of the Master Plan includes a 200 cfs diversion from Island Brook at Frenchtown Road to the proposed Elton Rogers Park

detention area via a 10-foot by 3-foot box culvert. The diversion was initially computed in the 2001 Kasper study based upon the TP-40 rainfall depths, which are 20.5% less than the currently available rainfall depths from NOAA Atlas 14, for the 1% annual chance (100-year) recurrence interval. To account for this change, Tighe & Bond increased the estimated size of the diversion for the 1% annual chance storm by 20.5% to 242 cfs, rounding up to 250 cfs. While Tighe & Bond accounted for this diversion in the calculations for design of the dam, the Phase 1 design did not include the Island Brook diversion structure. Final design of the diversion will need to be performed prior to construction of Phase 6.

2.2.1 Phase 1 Subalternates from Tighe & Bond

Two subalternates were considered in the design of Phase 1, per Tighe & Bond's *Elton Rogers Park Dam Rehabilitation Engineering Report* (2018).

Sub-Alternate 1

The first subalternate was the potential use of a depression, currently located to the east of the existing main impoundment, as additional flood storage. This subalternate would require the construction of a berm to convert the depression into a pond for storage, and then the interconnection of the depression with the existing main impoundment. This subalternative was dismissed after evaluation indicated that there were significant vernal pool habitats in the area (See **Appendix A**, Sheet C1.00), which would be impacted. The elimination of this subalternate resulted in the need to identify other options for storage, which led to the alternative to enlarge the existing main impoundment, as included in the final Phase 1 design.

Sub-Alternate 2

The second subalternate considered in the design of Phase 1 was the potential construction of a cut-off channel in the Park Drive right-of-way to intercept runoff from the east and direct it around Luther Street to reduce the flow to Luther Street and to reduce the extent of excavation required to enlarge the existing impoundment behind the existing dam. This subalternative was dismissed because the cut-off channel would further disturb wetlands in the area, in addition to the wetlands that would already be disturbed for the dam improvements.

2.2.2 Phases 2-6 Subalternates from Kasper

A subalternate for limiting the peak flow to 1,000 cfs at the Lincoln Boulevard downstream diversion chamber was considered for Phase 2 of the Master Plan. As an alternative to the construction of a detention pond in Svihra Park and the diversion through Bronx Avenue, the piping of Ox Brook from Lincoln Boulevard westward within Capitol Avenue to Laurel Avenue then proceeding southward to discharge into the Rooster River was considered. This alternative would involve installation of approximately 5,500 linear feet of conduit within developed streets, and would also require the reconstruction of the diversion chamber in Lincoln Boulevard. The diversion to Svihra Park was chosen as the preferred alternative because it would not require the reconstruction of the diversion chamber and would include a shorter length of new conduit construction (3,500 linear feet), resulting in less construction impacts and costs. Both subalternates are shown in **Figure 2-1**, which is taken from the 2001 Kasper report. The Svihra Park diversion was carried through the remainder of the Master Plan process and is included as part of the Proposed Action.

In addition to this diversion subalternate, the Kasper work also considered different levels of protection (designing to accommodate different storm events – 10-yr versus 25-yr, as described earlier in this document; however, designing for only the 10-yr storm resulted in significant remaining flooding, and was dismissed from further consideration).

A 1980 report by Kasper describes that the proposed improvements were designed (sized) for a 4% annual chance storm event ("25-year storm") and checked for performance during a 1% annual chance storm event ("100-year storm"). The evaluation indicated that there would be some residual flooding in undeveloped areas between Thorme Street and Burns-ford Avenue during the 100-year storm. Alternative sizing to accommodate a smaller, 10% annual chance storm event ("10-year storm") was also developed and examined for performance during a 100-year storm but was shown to have significantly greater flooding.

Beyond these subalternates, it should be noted that the Kasper work was an iterative process that considered multiple rounds of design iterations, reviewing many configurations of differing sizes for pipes, culverts, and open channel sections, as well as diversions over Kasper's 20+ years of involvement in the Project.



Figure 2-1. Kasper Master Plan Subalternate for Piped Diversions (taken from Kasper, 2001).

2.3 OTHER FLOOD PROTECTION METHODS

Flood protection measures provide means of minimizing flooding impacts to development and structures within a floodplain. Flood protection measures may include techniques such as:

- Acquisition/relocation,
- Levees/floodwalls,

- Dry or wet floodproofing, and/or
- Elevation of structures.

A description of these options follows, along with potential benefits, drawbacks, and impacts, with information derived from FEMA's 2012 *Engineering Principles and Practices for Retrofitting Flood-Prone Residential Structures (Third Edition)* and 2014 *Homeowner's Guide to Retrofitting - Six Ways to Protect Your Home From Flooding*. **Table 2-1** at the end of this section summarizes the advantages and disadvantages of each technique of mitigation.

2.3.1 Acquisition/Relocation

Acquisition involves the purchase of properties within the 1% annual chance flood hazard area by the City of Bridgeport and demolition of structures within this area and relocation of residents/businesses to a new location outside the floodplain. For relocation, structures within the 1% annual chance flood hazard area would need to be moved to another location outside of the regulated floodplain area.

These options would remove the adverse economic, health, and safety impacts that can occur to property owners as a result of flood events. With this alternative, inundation in the floodplain would no longer result in impacts to safety, health, or property related to residential and commercial properties, although the potential for impacts to infrastructure would remain. In the instance of relocation of the structure outside the floodplain, or if the acquired structures are demolished, the floodplain can provide a greater storage area to contain flood flows. This would potentially reduce impacts not only in the local floodplain, but also for those downstream.

There are approximately 403 parcels located partially or wholly within the 1% annual chance flood hazard area along Ox Brook within the Project Area, due to its urbanized nature. Large costs would be incurred by the City to acquire and demolish the properties (with coordination to relocate residents and businesses to other locations within the city) and/or to relocate structures outside the floodplain, rendering this option impractical. Additionally, land outside of the floodplain would be required to relocate structures, which would be difficult in an urbanized area. Finally, this option would not reduce the extent of flooding or the need for roadway closures and associated emergency response.

For the reasons stated above, wholesale acquisition and/or relocation is not considered a viable alternative. However, in conjunction with the Master Plan improvements, some level of acquisition may be required, which will be determined during final design of individual phases of the Project.

2.3.2 Levees/Floodwalls

Levees and floodwalls are types of physical barriers for protection against floodwaters, constructed along waterway shorelines, parallel to the direction of flow. Levees are made from compacted earth, with wide bases and sloped sides for stability. Floodwalls are typically vertical structures composed of concrete, masonry, steel, or a combination of these materials. Both levees and floodwalls can be constructed at either a small scale or at the scale of an entire city.

While these structures contain flood flows within the channel and floodplain areas, they also block interior storm drainage and tributaries from discharging to the waterway. As such, appurtenant structures such as interior drainage systems, gates, pumping stations, and closure structures must be constructed, creating a complex system which must be operated and maintained at a significant cost, with the potential for catastrophic impacts in the event of failure.

Due to the urbanized nature of the neighborhoods along the Ox Brook and proximity of a significant number of structures immediately adjacent to the brook, installation of a large-scale levee or floodwall system would require that a significant number of properties on both sides of the brook's alignment be purchased by the City in order to construct levees or

floodwalls. In addition, levees and floodwalls will restrict access to and views of the waterway and they may be considered unsightly by residents, and, while marginal, the ecological functions of the existing open channel sections of Ox Brook would be impaired. As such, the construction of levees or floodwalls is not considered a viable option for the Ox Brook system.

2.3.3 Dry or Wet Floodproofing

Dry floodproofing makes use of impermeable membranes, waterproof coatings, or supplemental layers of concrete or masonry to make a structure watertight. Dry floodproofing is typically only effective to a height of three feet above the ground elevation per USACE (2012, 2014), after which hydrostatic pressure can no longer be withstood by the walls. Openings such as doors and windows must have temporary or permanent shielding installed to prevent floodwater from entering the structure. These shields will require human intervention to be installed, which will require warning time. Should there not be adequate warning time, or a leak in the system, damage to the structure and contents may be as significant as the case where no floodproofing was completed.

Wet floodproofing allows for floodwater to enter uninhabited parts of a structure without causing significant damage to the structure or its contents. Allowing the floodwater to enter a structure prevents hydrostatic pressure from causing structural or wall damage. In wet floodproofing, utilities must be elevated above flood elevation. Cleaning of the area may still be necessary following a flood event, particularly if inundated with sediment or contaminants such as chemicals or sewage that make the structure uninhabitable. This clean up could be both expensive and extensive.

While floodproofing may be considered during final design for some structures in conjunction with the Project, it is not considered a viable alternative at the scale of the Project, due to the large number of structures that are currently subject to flooding, and due to the significant limitations of floodproofing as an option.

2.3.4 Elevation of Structures

Elevation is the raising of a structure above the base flood elevation through the use of piles, piers, posts, or columns. Elevation of a structure can be expensive, particularly for large structures such as apartment or office buildings, or those with basements. Additionally, while this option will protect the structure and its contents, the structure could still be impacted by utility loss and lack of accessibility during a flood event.

If the City were to pursue elevation of homes as an option and were to seek state or federal funding for such an activity, under Chapter 476a of the Connecticut General Statutes, Section 25-68 b-o, elevation of homes is considered to be a “critical activity”, which, in a coastal community, would require the structure to be elevated to the 500-year (0.2% annual chance flood) base flood elevation (BFE) plus 2 ft of freeboard per communications with DEEP.

Due to its significant costs and limitations, combined with the large number of structures within the Project Area that must remain accessible during storm events, the elevation of structures subject to flooding is not considered a viable alternative.

2.3.5 Summary of Flood Protection Measures

Table 2-1 summarizes advantages and disadvantages associated with each of the identified flood protection measures.

Table 2-1. Other Flood Protection Measures – Summary of Advantages/Disadvantages

Mitigation Method	Advantages	Disadvantages
Acquisition	Reduces or removes flood risk and associated strains to contents and residents, can allow for better floodplain management.	Expensive, requires residents to relocate, may require demolition of structures.
Relocation	Reduces or removes flood risk and associated strains to structure and contents, can allow for better floodplain management.	Expensive, requires new land.
Levees/Floodwalls	Reduces flood risk and associated strains to structure and contents, does not require alteration to the structure.	Can restrict access to structure, requires more land, requires interior drainage system, may require warning time. Does not completely eliminate flood risk.
Dry Floodproofing	Does not require extra land, can reduce flood risk and associated strains to structure and contents.	Requires warning time, may result in structural damage if it fails, can only be used for design depths of three feet. Does not completely eliminate flood risk.
Wet Floodproofing	Does not require extra land, reduces hydrostatic pressure on floors and walls.	Requires warning time, may require extensive cleanup after flood event making the structure temporarily uninhabitable. Does not completely eliminate flood risk.
Elevation of Structures	Reduces flood risk and associated strains to structure and contents, does not require additional land, uses established methods.	Expensive, may impact accessibility, may adversely affect structure's appearance and accessibility, require considerations for seismic, wind, and water flow when designing.

Reference: FEMA, 2012. Engineering Principles and Practices for Retrofitting Flood-Prone Residential Structures (Third Edition) (FEMA P-259).

2.4 COMPARISON OF ALTERNATIVES

The alternatives and subalternatives described above were evaluated relative to one another in order to select the preferred alternative, in this case, the Ox Brook Flood Control Master Plan.

Table 2-2 compares each of the alternatives against potential impacts. This table considers permanent impacts associated with the implementation of each alternative, not construction-phase impacts, which are described in Section 6.

Table 2-2. Comparison of Potential Impacts by Alternative

	Alternative				
Topic	**No Action**	**Ox Brook Flood Control Master Plan**	**Phase 1 Subalternates** • **Secondary detention area** • **Cut-Off Channel**	**Phases 2-6 Subalternates** • **Alternate to Svihra Park Diversion** • **Different Design Storm Protection**	**Other Flood Protection Methods** • **Acquisition/Relocation** • **Floodwalls/Levees** • **Floodproofing** • **Elevation**
NATURAL RESOURCES					
Geology, Soils, Agricultural Soils, Topography	No impacts	Changes in topography are required to create detention areas and create stabilized channels. No impacts to agricultural soils.	These options would require additional grading/earthwork and soil/topography/geology impacts, as compared to the Master Plan Alternative. No impacts to agricultural soils.	Lesser design storms would result in lesser improvements, which would reduce earthwork needed as compared to the Master Plan Alternative. No impacts to agricultural soils.	Floodwalls/levees would require significant earthwork. Acquisition and demolition would require foundation backfills. Floodproofing and elevation would not require significant impacts relative to this topic. For all methods, no impacts to agricultural soils would be anticipated.
Water Resources	High flow events will continue to cause bank erosion and degradation of concrete/masonry channel walls with impacts to surface water quality. No change to regulatory floodplain from existing conditions.	Alternative would result in stabilization of banks and improvements to degraded structural sections of the brook. Master Plan implementation would result in reduction of regulatory floodplain limits, with proper documentation.	These alternatives would be largely similar to the Master Plan, as those elements would still be included.	This alternative would not result in diversion to Svihra Park, as such, there would be no changes to flows in Island Brook. With a lesser design storm, a larger regulatory floodplain would remain post-implementation, as compared to the Proposed Action.	Floodwalls/levees may modify the existing regulatory floodplain, but not remove it. Other methods would not alter the regulatory floodplain and stream flooding would still occur.
Site Ecology and Wetland Resources	No impacts	Wetland impacts would occur in Elton Rogers Park and Svihra Park and watercourses would be impacted along open channel sections. Impacts are discussed in Section 3.	Would result in additional wetland and vernal pool impacts, which are undesirable, as compared to Proposed Action.	These subalternatives would result in less direct wetlands impacts than the Proposed Action. However, the different design storm option would not reduce flooding to the desired degree along Ox Brook.	These methods would result in less wetlands impacts than the Proposed Action, as they would include the removal and/or elevation of structures, work with/interior to structures, rather than detention areas. The floodwall option would still result in impacts within open channel sections of the brook.
Endangered, Threatened, and Special Concern Species and Habitats	Not Applicable, none present	Not Applicable, none present	Not Applicable, none present	Not Applicable, none present	Not Applicable, none present
PHYSICAL ENVIRONMENT					
Traffic, Bicycle and Pedestrian Access	Continued flooding will result in periodic temporary road and sidewalk closures when roadways and sidewalks are inundated.	No impacts associated with the Project. Limited flooding may still occur, depending on ultimate design.	Same as Master Plan Alternative.	No impacts associated with the Project. With lesser design storm, more flooding may still occur as compared to Master Plan Alternative.	Floodwalls/levees would limit flooding, but could result in the need for closure structures at certain points along roads, which would limit access during storms. The other methods would not alter flood patterns, such that infrastructure impacts, periodic roadway and sidewalk impacts and closures would continue.
Air Quality	No impacts	No impacts	No impacts	No impacts	No impacts
Noise	No impacts	No impacts	No impacts	No impacts	No impacts
Light/Shadow	No impacts	Vegetation removal may allow for more light penetration in certain areas along roads and the stream until it regrows.	Same as Master Plan Alternative.	Similar to Master Plan Alternative, although lesser design criteria may result in slightly less vegetation removal being needed.	Floodwalls/levees would likely require vegetation removal which would impact light penetration, as with the Master Plan Alternative. Other methods would not necessarily require vegetation removal, but removal of homes under acquisition/relocation option would alter light/shadow.
Utilities	No impacts are anticipated, unless culvert or roadway failures occur due to flood damages.	Modifications to utility alignments associated with road crossing culvert replacements may be required at certain locations. Service ability/patterns will not change.	Impacts would be similar to Master Plan Alternative, as work would still include Master Plan elements.	Alternative diversion would have significantly more utility conflicts and require more effort for modifications than Master Plan Alternative with Svihra Park diversion. Differing design storm could result in smaller culverts, which may require less utility impacts.	No impacts

	Alternative				
Topic	**No Action**	**Ox Brook Flood Control Master Plan**	**Phase 1 Subalternates** • **Secondary detention area** • **Cut-Off Channel**	**Phases 2-6 Subalternates** • **Alternate to Svihra Park Diversion** • **Different Design Storm Protection**	**Other Flood Protection Methods** • **Acquisition/Relocation** • **Floodwalls/Levees** • **Floodproofing** • **Elevation**
Aesthetics/Viewsheds	No impacts	Vegetation removal may allow for visibility in certain areas along houses, roads and the stream until it regrows.	Same as Master Plan Alternative.	Impacts would be similar to Master Plan Alternative, minus impacts within Svihra Park and adjacent area.	This alternative would have significant visual impacts if homes were removed and/or elevated or levees/floodwalls constructed.
Solid Waste/Recycling	No impacts	No impacts beyond maintenance debris removal	No impacts beyond maintenance debris removal	No impacts beyond maintenance debris removal	No impacts beyond maintenance debris removal
Cultural Resources	No impacts	Dam rehabilitation would impact the Elton Rogers Dam, which is potentially eligible for the State Register of Historic Places. No other historic or archaeological resources impacts.	Same as Master Plan Alternative, as work would still include Master Plan elements for dam rehabilitation.	Same as Master Plan Alternative, as work would still include Master Plan elements for dam rehabilitation.	No impacts, assuming work at Elton Rogers Park would not be included.
Pesticides, Toxic or Hazardous Materials	No impacts	No long-term impacts anticipated	No long-term impacts anticipated	No long-term impacts anticipated	No long-term impacts anticipated
Energy Use and Conservation	No impacts	No impacts	No impacts	No impacts	No impacts
SOCIOECONOMIC RESOURCES					
Public Health & Safety	Continued flooding will result in continued demands on emergency services personnel and the Office of Emergency Management and Homeland Security for road closures, diversions, and rescue/response activities.	Reduced frequency and severity in flooding will result in reduced demands on emergency personnel/departments.	Same as Master Plan Alternative.	Change in diversion would not likely change the benefits of the Master Plan, so impacts would be similar. Change in design storm would mean a diminished benefit, as compared to the Master Plan, resulting in less of a reduction in demand for emergency services.	These would result in decreased demand for emergency services, but would still likely require responses for those trapped in the case of elevation, and for potential closure structure response for floodwall/levee solutions, as well as the sustained need for diversions and road closures.
Land Use, Neighborhoods, and Recreational Resources	No impacts	No major changes anticipated. Minor losses of available recreation areas due to increased inundation.	No major changes anticipated. Minor losses of available recreation areas due to increased inundation, slightly more than in Master Plan Alternative.	No major changes anticipated. Minor losses of available recreation areas due to increased inundation, slightly less than Master Plan Alternative due to lack of use of Svihra Park area.	Acquisition and relocation option would remove housing and change character of neighborhoods. Floodwalls/levees would divide housing units and impact appearance of neighborhoods. No impacts to recreational resources.
Population, Employment, Income, and Housing and Commercial Properties	Chronic flooding will result in continued damages to residential and commercial properties.	Master Plan would reduce flooding impacts on population and housing, resulting in less damages and financial losses for owners.	Same as Master Plan Alternative.	Same as Master Plan Alternative for diversion alternative. Different design criteria would result in decreased flood protection and result in more damages than Master Plan.	Significant impacts to housing for acquisition/relocation/elevation alternatives. Floodwalls/levees may result in increased property impacts, as compared to Master Plan Alternative.
Economic Impacts	No project construction costs will be incurred, but flooding and associated damages to property and infrastructure will continue to occur and worsen with climate change, resulting in continued economic losses.	Project will have capital cost of $68.3 million and will require upkeep, but will result in reduction in frequency and severity of flooding and flood damages and reduction of regulatory floodplain within the corridor.	Similar costs and benefits anticipated.	Alternative diversion was estimated to have higher construction costs. Different design storm protection would result in lower project cost, but not provide same degree of benefits in flood damage reduction.	Costs would vary by option, but would include: • Costs to purchase properties and demo structures, restore floodplain • Costs for construction of floodwalls/levees • Costs to floodproof structures • Costs to elevate existing structures These are not anticipated to be feasible on a large scale.

3.0 EXISTING ENVIRONMENT AND ANALYSIS OF IMPACTS

3.1 NATURAL ENVIRONMENT

3.1.1 Geology, Soils, Agricultural Soils, and Topography

3.1.1.1 Existing Conditions

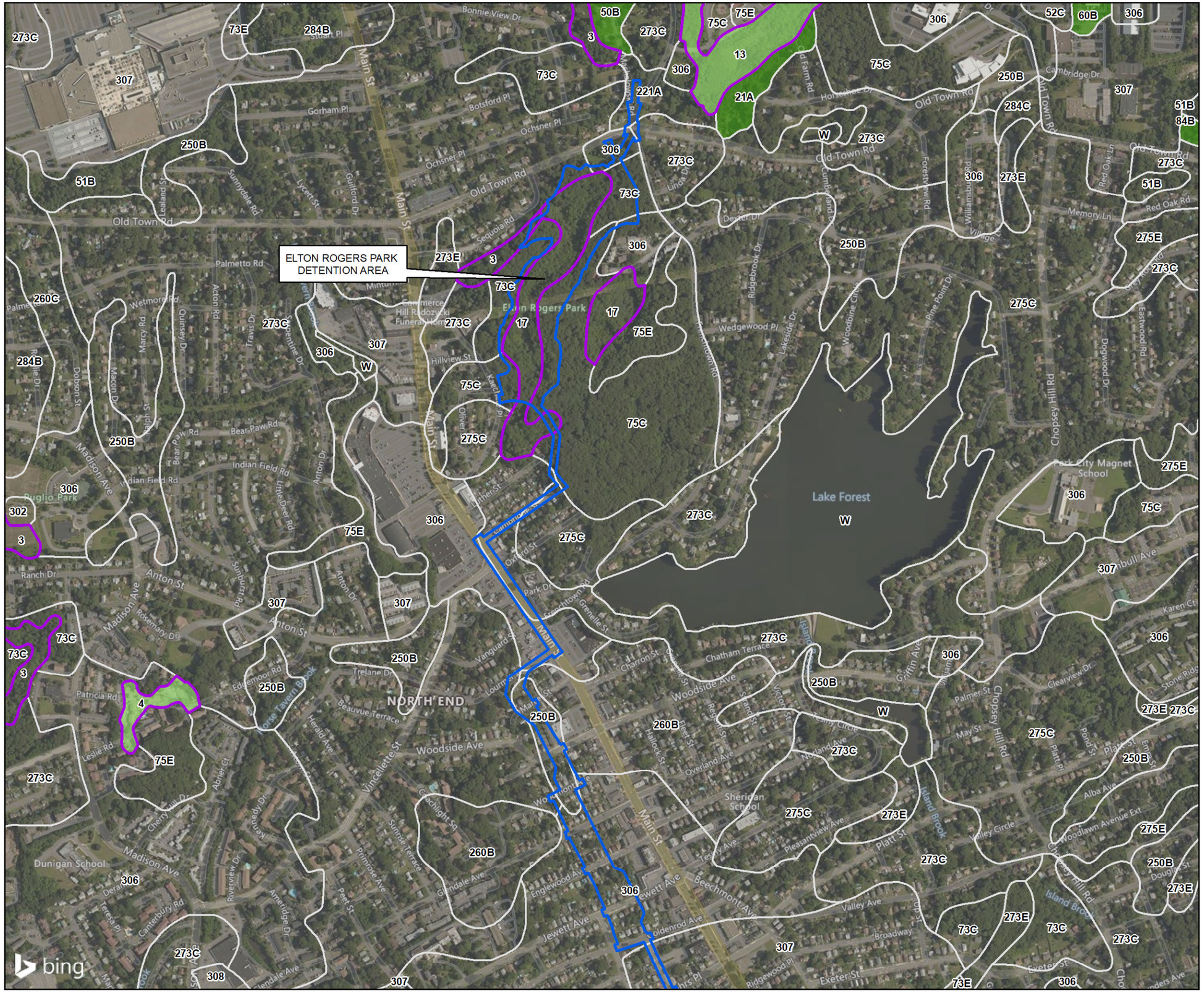
Soils/Agricultural Soils

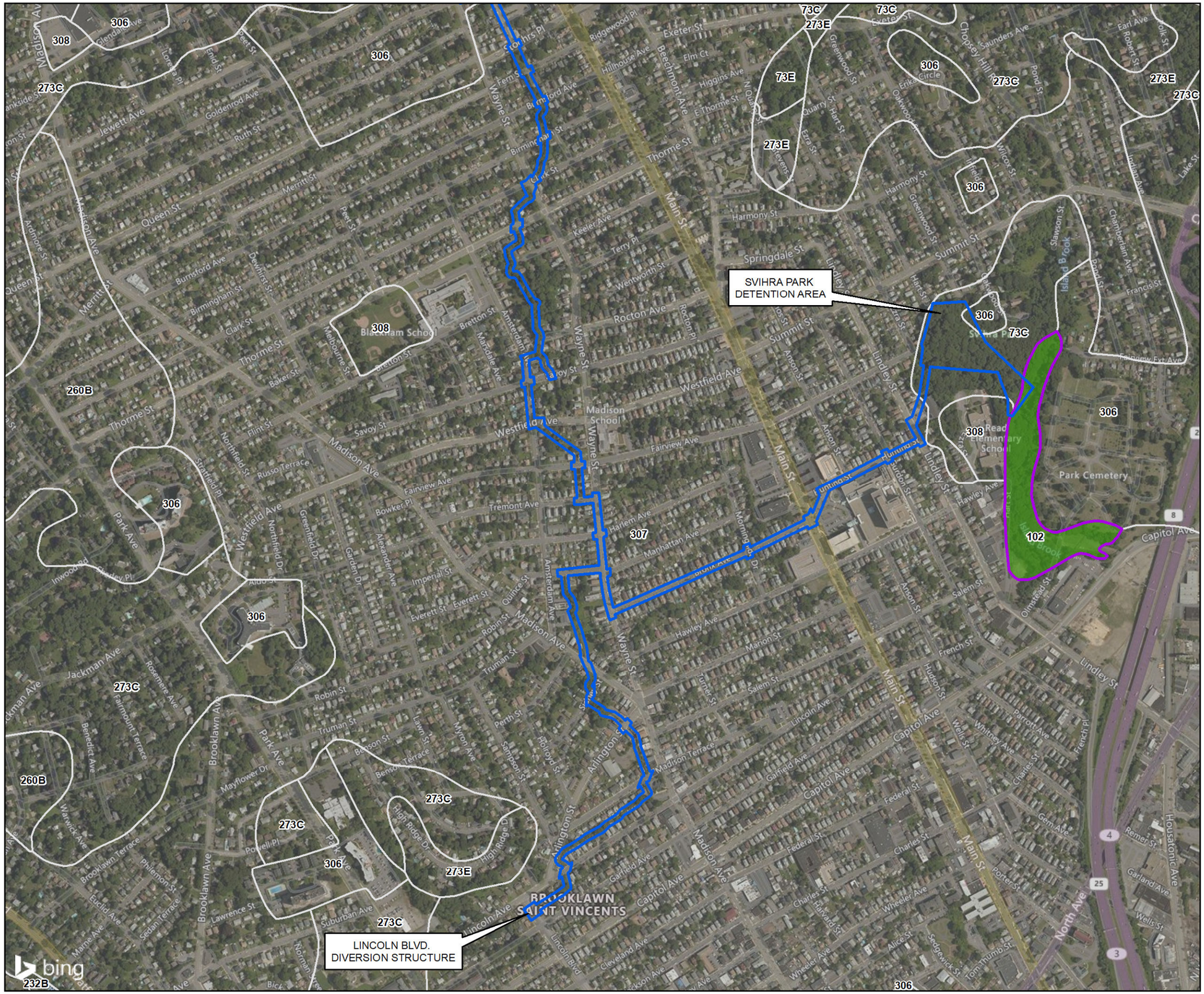
The primary soils identified within the Project Area per the CT DEEP Soils GIS layer are classified as either Urban Land (28.0%), Timakwa and Natchaug soils (17.5%), Charlton-Chatfield complex soils (3-15% slopes, very rocky) (10.7%), and Udorthents-Urban Land complex (10.5%).

Table 3-1 summarizes soils within the Project Area and indicates those that are identified as Inland Wetland Soils, based on the CT DEEP Inland Wetlands Soils Geographic Information System (GIS) layer. **Figure 3-1** shows the mapped soils within the corridor, as well as agricultural soils and inland wetland soils locations.

Table 3-1. Summary of Soils and Characteristics within Ox Brook Project Area

Map Unit	Acres	Inland Wetland Soil?	Soil Parent Material	Drainage Class
Ridgebury, Leicester, and Whitman soils, extremely stony	0.1	Yes, Poorly Drained and Very Poorly Drained Soils	Lodgement Till	Poorly drained
Timakwa and Natchaug soils	9.7	Yes, Poorly Drained and Very Poorly Drained Soils	Shallow Organic - In-land	Very poorly drained
Charlton-Chatfield complex, 3 to 15 percent slopes, very rocky	9.8	No	Melt-out Till - Moder-ate to Bedrock	Well drained
Hollis-Chatfield-Rock outcrop complex, 3 to 15 percent slopes	5.5	No	Melt-out Till - Shallow to Bedrock	Well drained
Pootatuck fine sandy loam	0.3	Yes, Alluvial and Floodplain Soils	Alluvial Floodplain	Moderately well drained
Ninigret-Urban land complex, 0 to 5 percent slopes	0.5	No	Urban Influenced	Moderately well drained
Sutton-Urban land complex, 0 to 8 per-cent slopes	3.0	No	Urban Influenced	Moderately well drained
Charlton-Urban land complex, 3 to 8 percent slopes	0.1	No	Urban Influenced	Well drained
Urban land-Charlton-Chatfield com-plex, rocky, 3 to 15 percent slopes	2.7	No	Urban Influenced	Well drained
Urban land-Chatfield complex, rocky, 3 to 15 percent slopes	0.4	No	Urban Influenced	Well drained
Udorthents-Urban land complex	8.0	No	Urban Influenced	Well drained
Urban land	15.6	No	Urban Influenced	Not rated
Udorthents, smoothed	0.1	No	Urban Influenced	Moderately well drained


ELTON ROGERS PARK
DETENTION AREA
Elton Rogers Park
Lake Forest
NORTH END
Sheridan School
Park City Magnet School
Dunigan School
Puglio Park
Commerce Hill Rudozynski Funeral Home
Main St
Old Town Rd
Woodside Ave
Madison Ave
Anton St
Bear Paw Rd
Indian Field Rd
Hillview St
Wedgewood Pl
Chopsey Hill Rd
Old Farm Rd
Cambridge Dr
Bonnie View Dr
Stuart Pl
Gorham Pl
Botsford Pl
Ochsner Pl
Sunnydale Rd
Lycett St
Guilford Dr
Lealand St
Palmetto Rd
Wetmore Rd
Acton Rd
Marcy Rd
Travis Dr
Spentine Dr
Dobson St
Ralph St
Macon Dr
Madison Ave
Rosemary Dr
Anton Dr
Sunset Rd
Ranch Dr
Little Deer Rd
Rivertown Rd
Sequoia Rd
Linda Dr
Dexter Dr
Ridgebrook Dr
Lakeside Dr
Woodbine Ct
Pine Point Dr
Eastwood Rd
Dogwood Dr
Memory Ln
Red Oak Ln
Red Oak Rd
Williamsburg Rd
Forestview Rd
Cumberland Rd
Village Ct
Horseshoe Dr
Old Town Rd
Kasch Park Pl
Oliver
Luther St
Commonwealth Ave
Oxford St
Park Dr
Grenelle St
Broadtown Rd
Vanguard
Louis
Trelane Dr
Edgemoor Rd
Horse Tavern Brook
Beauvue Terrace
Herald Ave
Vincellette St
Abner Ct
Leslie Rd
Patricia Rd
Ranch Dr
Cherry Ln
Dr
Keneyon Dr
Riverview Dr
Canterbury Rd
Teresa Pl
Derar
Primrose Ave
Sunrise Terrace
Coachlight Sq
Glendale Ave
Englewood Ave
Peet St
Amridge Dr
Jewett Ave
Goldenrod Ave
Beechmont Ave
Valley Ave
Broadway
Ridgewood Pl
Exeter St
Chatham Terrace
Charron St
Hallock St
Regent St
Victor St
Overland Ave
Pleasantview Ave
Terry Ave
Island Brook
Griffin Ave
Clearview Dr
Stone Ridge
Palmer St
May St
Platt St
Platt Pl
Pond St
Valley Circle
Woodlawn Avenue Ext
Alba Ave
Douglas St
Island Brook
Meadowbrook Rd
Karen Ct
Ensign Rd
Cumberland Rd
Lounsbury
Main St
Old Town Rd
Old Town Rd
Old Town Rd



LEGEND

N

- Project Area
- Soils Map Unit
- Inland Wetland Soils
- Prime Farmland Soils

MAP ID	SOIL UNIT
3	Ridgebury, Leicester, and Whitman soils, extremely stony
17	Timakwa and Natchaug soils
73C	Charlton-Chatfield complex, 3 to 15 percent slopes, very rocky
75C	Hollis-Chatfield-Rock outcrop complex, 3 to 15 percent slopes
102	Pootatuck fine sandy loam
221A	Ninigret-Urban land complex, 0 to 5 percent slopes
250B	Sutton-Urban land complex, 0 to 8 percent slopes
260B	Charlton-Urban land complex, 3 to 8 percent slopes
273C	Urban land-Charlton-Chatfield complex, rocky, 3 to 15 percent slopes
275C	Urban land-Chatfield complex, rocky, 3 to 15 percent slopes
306	Udorthents-Urban land complex
307	Urban land
308	Udorthents, smoothed

NOTES:

1. BASE MAP SOURCE: BING 2020-2021 IMAGERY.

2. SOILS DATA ACQUIRED FROM CT DEEP GIS LAYERS FOR SOIL SURVEY GEOGRAPHIC DATABASE (SSURGO) SOILS, INLAND WETLAND SOILS AND FARMLAND SOILS CONNECTICUT.

700 350 0 700 Feet

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OX BROOK FLOOD CONTROL MASTER PLAN EIE
BRIDGEPORT, CT

SOILS MAP

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
CITY OF BRIDGEPORT
BRIDGEPORT, CT

PROJ MGR: JRB	REVIEWED BY: TEJ	CHECKED BY: SLL	FIGURE 3-1
DESIGNED BY: JRC	DRAWN BY: JRC	SCALE: 1 in = 700 ft	
DATE: FEBRUARY 2022	PROJECT NO: 15.0166920.00	REVISION NO:	SHEET NO: 2 OF 2

According to the United States Department of Agriculture's (USDA's) *Soil Survey of Fairfield County, Connecticut* (1981) and *Soil Survey of the State of Connecticut* (2008), Urban Land is described as areas with more than 85% of the surface covered by urban structures. Timakwa and Natchaug soils are usually found in woodland or wildlife habitat areas, and have a muck layer underlaying a combination of gravelly loamy sands, silt loam, and sandy loams. Charlton-Chatfield is a fine sandy loam usually found on hills and ridges. Udorthents-Urban Land complex includes areas covered by buildings, pavement, or altered by cut/fill.

Areas of the Project within Elton Rogers Park include Timakwa and Natchaug soils, Charlton-Chatfield complex (3-15% slopes, very rocky), Hollis-Chatfield-Rock outcrop complex (3-15% slope), and Hollis-Chatfield-Rock outcrop complex (15-45% slope). Hollis-Chatfield-Rock outcrop complex is a gravelly, well-drained fine sandy loam primarily found in woodlands. Areas within the Project Area in Svihra Park are primarily mapped as Charlton-Chatfield complex (3-15% slopes, very rocky) and Udorthents-Urban Land complex.

Most of the remainder of the Project Area corridor is mapped as Urban land and Udorthents-Urban Land complex.

The most common soil parent material in the Project Area is Urban Influenced (30.3 acres) followed by Melt-out Till – Moderate to Bedrock (9.8 acres), Shallow Organic – Inland (9.7 acres), and Melt-out Till – Shallow to Bedrock (5.5 acres).

According to the CT DEEP Farmland Soils GIS datalayer, only a small portion of the Project Area overlaps with Prime Farmland Soils – 0.3 acres – located along the far southeastern edge of Svihra Park.

Surficial Geology

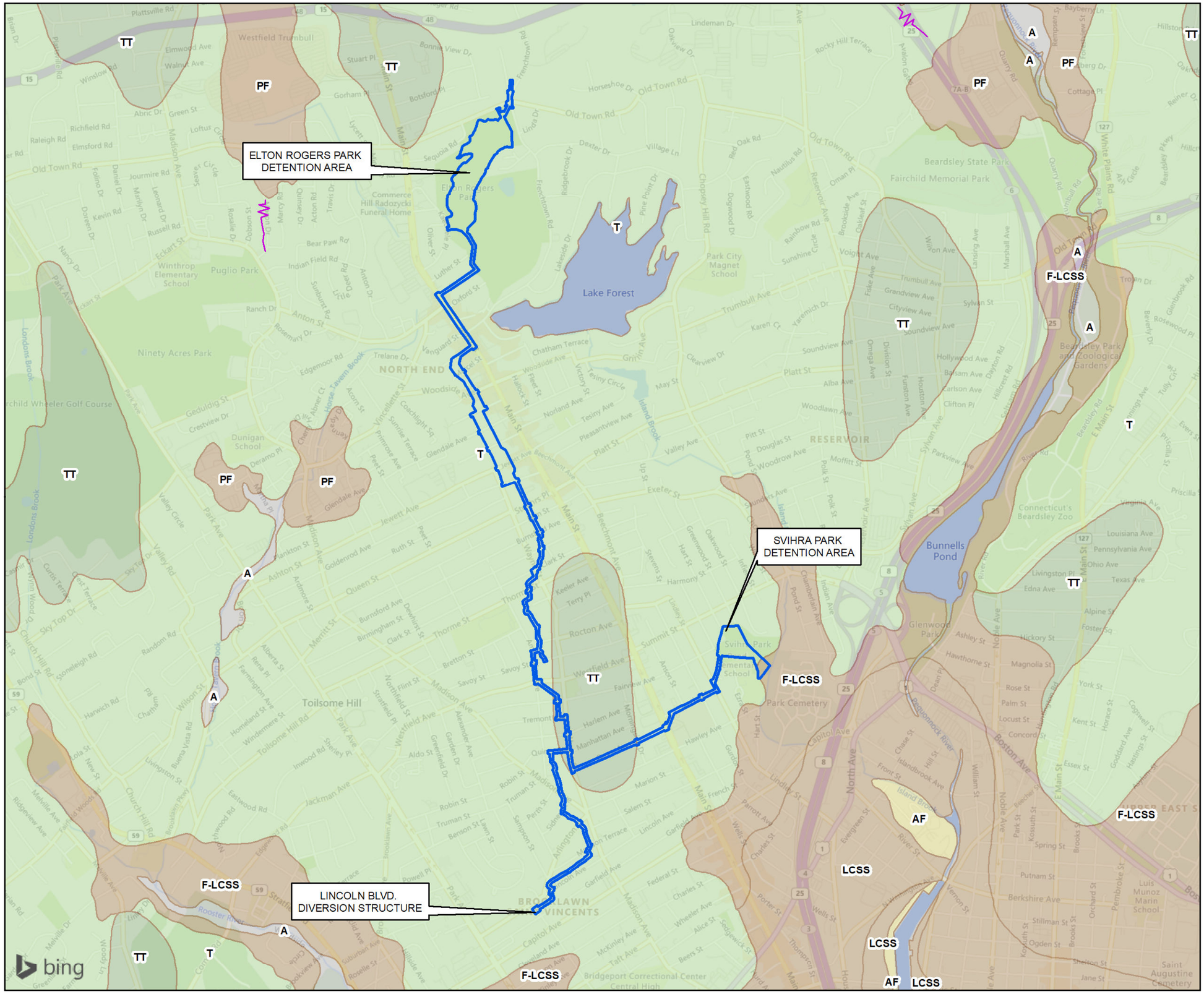
According to the CT DEEP Quaternary Geology (Surficial geology) GIS datalayer, most of the Project Area is mapped as "Till". The exceptions include a small area mapped as "Thick Till", in Phase 2 areas along Wayne Street and Bronx Avenue. In addition, a small portion of the Project Area at the east end of Svihra Park is mapped as "Sediment Dammed Lake and Pond Deposits". **Figure 3-2** depicts the surficial geology within the Project Area.

Bedrock Geology

Based on a review of the CT DEEP Bedrock Geology GIS datalayer, the Project Area overlays six bedrock formations. The northern section of the Project Area south to Goldenrod Avenue is mapped as a "Shelton (white gneiss) Member of Trap Falls Formation". A short section of the Project Area is mapped as "Carringtons Pond Member of Trap Falls Formation" as it crosses Goldenrod Avenue and runs down Bartlett Street. The Project Area from the Bartlett Street area to Clark Street is mapped as "Straits Schist". The Project corridor then crosses a small area of "Basal member of the Straits Schist". Starting at Thorme Street, the Project Area south to Amsterdam Avenue is mapped as "Trap Falls Formation". The remaining southern portions of the Project Area are mapped as "Pumpkin Ground Member of Harrison Gneiss". **Figure 3-3** depicts the bedrock geology within the Project Area.

Topography

The topography within the Project Area generally decreases in elevation north to south along the corridor based on the topographic GIS datalayers provided by the City (data accessed Oct 2021). Elevations range from roughly Elevation 186 along the Project centerline at Lourmel Street to Elevation 52 at Lincoln Boulevard, near the diversion structure, an elevation change of approximately 134 feet over approximately 11,500 feet (2.2 miles) of corridor along the main Project centerline (roughly 1% average slope).



LEGEND

- Project Area
- Glacial Lake Spillway
- Natural Postglacial Deposits
- Artificial Fill
- Sediment Dammed Lake/Pond Deposits
- Till
- Thick Till

N

NOTES:

1. BASE MAP SOURCE: © 2022 MICROSOFT CORPORATION © 2022 TOMTOM

2. QUATERNARY GEOLOGY DATA ACQUIRED FROM CT DEEP GIS LAYERS FOR QUATERNARY GEOLOGY

1,500 750 0 1,500 Feet

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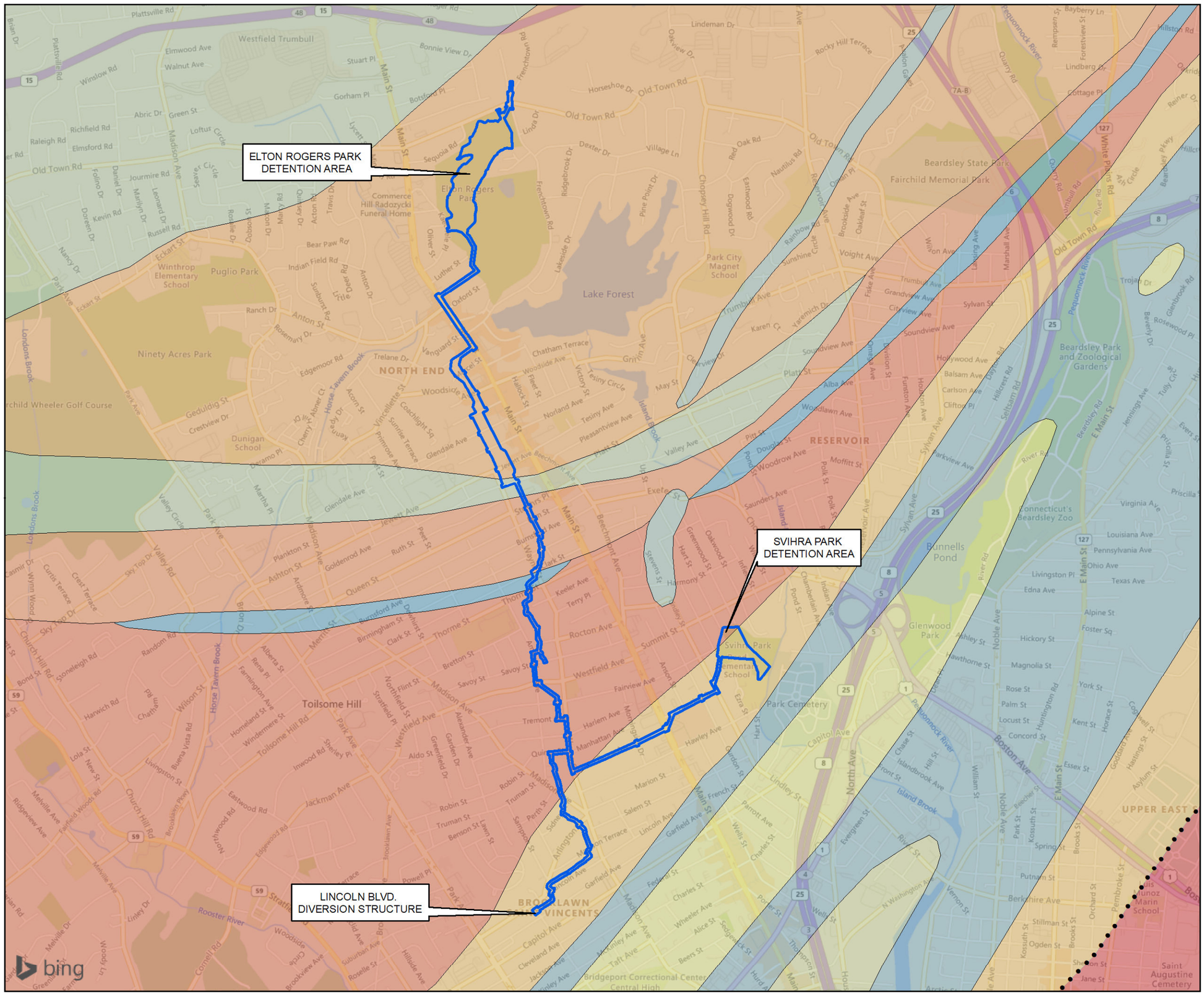
QUATERNARY GEOLOGY MAP

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
CITY OF BRIDGEPORT
BRIDGEPORT, CT

PROJ MGR: JRB	REVIEWED BY: TEJ	CHECKED BY: SLL	FIGURE 3-2
DESIGNED BY: JRC	DRAWN BY: JRC	SCALE: 1 in = 1,500 ft	
DATE: FEBRUARY 2022	PROJECT NO: 15.0166920.00	REVISION NO:	SHEET NO: 1 OF 1



LEGEND



- Project Area
- Contact
- Map Limit

FORMATION

- Basal member of the Straits Schist
- Beardsley Member of Harrison Gneiss
- Buttress Dolerite
- Carringtons Pond Member of Trap Falls Formation
- Golden Hill Schist
- Ordovician granitic gneiss
- Pumpkin Ground Member of Harrison Gneiss
- Shelton (white gneiss) Member of Trap Falls Formation
- The Straits Schist
- Trap Falls Formation
- Unmapped

NOTES:

1. BASE MAP SOURCE: © 2022 MICROSOFT CORPORATION © 2022 TOMTOM

2. BEDROCK GEOLOGY DATA ACQUIRED FROM CT DEEP

1,500 750 0 1,500 Feet

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BEDROCK GEOLOGY MAP

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GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		CITY OF BRIDGEPORT BRIDGEPORT, CT	
PROJ MGR: JRB	REVIEWED BY: TEJ	CHECKED BY: SLL	FIGURE 3-3
DESIGNED BY: JRC	DRAWN BY: JRC	SCALE: 1 in = 1,500 ft	
DATE: FEBRUARY 2022	PROJECT NO: 15.0166920.00	REVISION NO:	SHEET NO: 1 OF 1

Elton Rogers Park is located at the north end of the Project Area. Starting at the western side of the project boundary that cuts across the park, elevation steadily declines, opening to areas of relatively flat terrain that were historically impounded by the dam onsite according to the Phase 1 dam rehabilitation drawings entitled "City of Bridgeport, Connecticut, Elton Rogers Park Dam Reconstruction, CT DEEP Dam ID #1512, Dam Construction Permit Submission" prepared by Tighe and Bond (2019). Heading east, the landscape gradually rises in elevation again and is undulating with elevated areas of ledge present in some areas and relatively flat depressed areas with wetlands in others, rising again toward the park's eastern boundary on Frenchtown Road (Tighe and Bond, 2019). Elevations within the overall park range from approximately El. 190 to El. 259.

Svihra Park and the adjacent private property proposed for detention is located between Lindley Street on the west and Island Brook on the east. According to Kasper Associates, Inc.'s Utilities drawing (1983) and the City's topographic contours GIS datalayer, the eastern half of the park slopes gradually to the southeast, toward Island Brook. In the western portion of the park, the terrain becomes more diversified with areas sloping down toward the southeast intermixed with areas of gentle slopes with little to no change in elevation. Elevations within the park appear to range from approximately El. 22 near Island Brook to El. 90 in the western portions of the park and adjacent property within the Project Area.

3.1.1.2 Impacts

Much of the soils in the Project Area have historically been disturbed, including areas of Elton Rogers Park associated with past dam construction. The Project will require soil excavation and fill materials being placed within Elton Rogers Park and Svihra Park associated with the detention areas proposed at those locations. This will alter the topography in limited locations within the parks through the construction of berms and the rehabilitation of the dam. Work within Elton Rogers Park and Svihra Park and adjacent parcel for detention areas will also result in the need for excavation of surficial rock materials and potentially bedrock, as they are encountered. Ledge and potentially exposed bedrock appear to be present at both of these locations.

Within Elton Rogers Park, an area is also proposed for the construction of supplemental detention (approximately 105,300 square feet (SF) in areal extent), which will result in excavation and removal of soil and rock materials within that area. In addition, the dam rehabilitation and construction of two berms at the north end of the park will result in fill materials being placed, as shown in the drawings included in **Appendix A**.

Work along the linear portion of the Project for improvements to open channel and piped or culverted sections will also require excavation and structural fill materials along the corridor, including placement of riprap along channels in specific locations. Along the corridor, work will include excavation, subgrade preparation, channel or piped connection improvements, and backfill for restoration.

Impacts to farmland soils are not anticipated as the only area of farmland soils that intersects the Project Area is at the far eastern limits of the Project Area along Island Brook in the Svihra Park area. It is not anticipated that work would be performed in this area.

In the short-term, there will be construction impacts associated with the Project, which can result in erosion and sedimentation impacts, unless properly managed, a topic which is discussed more fully under the Stormwater topic in the Utilities section of this EIE.

3.1.1.3 Mitigation

To prevent or minimize erosion and sedimentation impacts during construction, control measures will be needed, such as limiting disturbance, inlet protection, perimeter controls, slope controls (erosion control blanket, tackifier, etc.), restoration, and anti-tracking pads, among other methods. This is more fully discussed under Stormwater.

Should soil units planned for excavation contain hazardous, toxic, or otherwise regulated constituents, the removal, storage, and disposal of such soils would require a materials management plan and coordination/permitting with CT DEEP. This is not anticipated to be an issue for Phase 1 of the Project in Elton Rogers Park and will be reviewed in more detail for the remaining phases of the Project as design development progresses.

Rock removal may result in vibrations or other impacts related to the processes used (hammering, explosives, etc.) and potential impacts will need to be addressed by a pre-excavation survey prior to rock removal, and a mitigation and monitoring plan developed prior to construction, as well as notifications to the public. Since much of the anticipated rock removal would be in Elton Rogers Park, which is fairly isolated, impacts would be lessened, as compared to more populated areas in denser residential neighborhoods.

3.1.2 Water Resources (Surface Water, Groundwater, Floodplains, Coastal Resources)

3.1.2.1 Existing Conditions

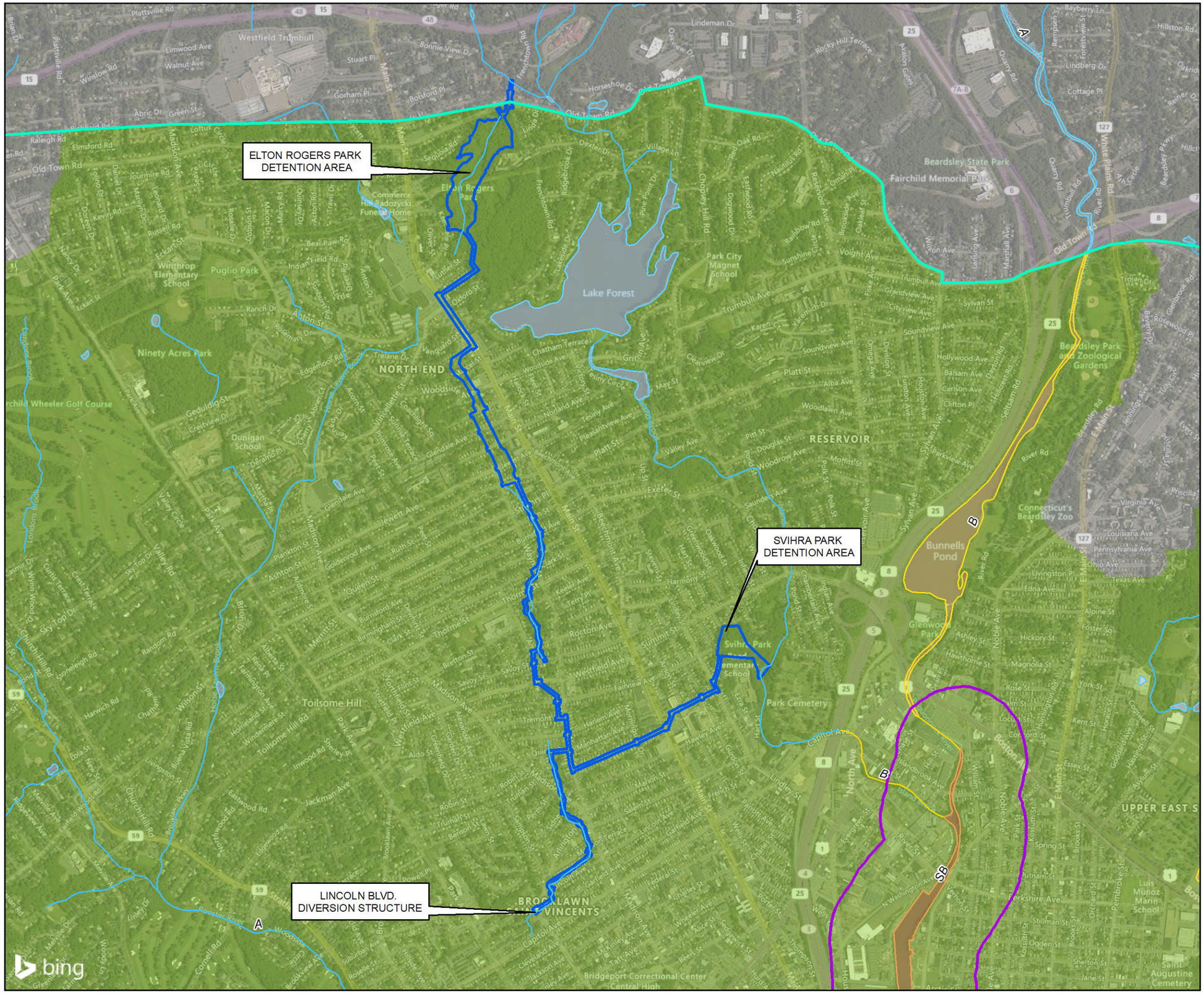
Surface Water

According to GIS datalayers from CT DEEP, the Project Area lies within the Southwest Coast Major Basin, which includes the coast from Stratford, CT to Rye, NY, and also within the Southwest Eastern Regional Basin. The Project Area also straddles the Ash Creek and Pequonnock River Subregional basins, with most of the Project Area located in the Ash Creek Subregional basin, with the Svihra Park diversion area being in the Pequonnock River Subregional basin.

Surface water in the Project Area flows generally in a north-south direction in Ox Brook along a combination of open channel and culverted/piped sections. Water enters Ox Brook via overland flow or via various stormwater outfalls along the brook. The surface water quality classification for Ox Brook is Class A, designating it for use as habitat for fish, other aquatic life and wildlife, potential drinking water supplies, recreation, navigation, and water supply for industry and agriculture. Discharges into waters classified as Class A are generally restricted to discharges from public or private drinking water treatment systems, dredging and dewatering, and emergency and clean water discharges.

Rooster River and Island Brook are near the Ox Brook corridor, and both have their own histories of flooding. Rooster River is located west and south of the Project Area and has two main tributaries (Horse Tavern Brook and Londons Brook), both of which are located west of the Project Area. Ox Brook is also a tributary of Rooster River and discharges to it downstream of the Project Area. Island Brook is located generally east of the Project Area. The surface water quality classifications for both Rooster River and Island Brook are Class A. **Figure 3-4** shows surface water quality classifications in the Project Area and vicinity.

Most of the city is served by public water supplies. All reservoirs that are part of the public water supply are located outside and upgradient of the Project Area.



LEGEND

- Project Area
- Coastal Area
- Coastal Boundary

Ground Water Quality

- GA
- GB
- A
- B, B*
- SB

Surface Water Quality

- A
- B, B*
- SB

N

NOTES:

1. BASE MAP SOURCE: BING 2020-2021 IMAGERY.

2. WATER RESOURCE DATA ACQUIRED FROM CT DEEP GIS LAYERS FOR COASTAL AREA, COASTAL BOUNDARY, GROUND WATER CLASSIFICATIONS POLYGON, AND SURFACE WATER QUALITY SET.

1,500 750 0 1,500 Feet

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OX BROOK FLOOD CONTROL MASTER PLAN EIE
BRIDGEPORT, CT

WATER RESOURCES MAP

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GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
CITY OF BRIDGEPORT
BRIDGEPORT, CT

PROJ MGR: JRB	REVIEWED BY: TEJ	CHECKED BY: SLL	FIGURE 3-4
DESIGNED BY: JRC	DRAWN BY: JRC	SCALE: 1 in = 1,500 ft	
DATE: FEBRUARY 2022	PROJECT NO: 15.0166920.00	REVISION NO:	SHEET NO: 1 OF 1

Groundwater

Figure 3-4 shows groundwater quality classifications in the Project Area and vicinity. As shown, groundwater throughout most of the Project Area is classified as GB (CT DEEP, 2018), which indicates that the area is highly urbanized or has intense industrial activity and has public water supply service available. According to the CT DEEP classification (2015), "such groundwater may not be suitable for human consumption without treatment due to waste discharges, spills, or leaks of chemicals or other land use impacts".

An area at the northern end of the Project Area is classified as GA (CT DEEP, 2015). Groundwaters with a GA designation are within "the area of existing private water supply wells or an area with the potential to provide water to public or private water supply wells". Groundwater within areas with a GA designation is presumed by the CT DEEP to be suitable for drinking or other domestic uses without treatment.

Most of the city is served by public water supplies. Wells which are part of the public water supply are located outside of the Project Area.

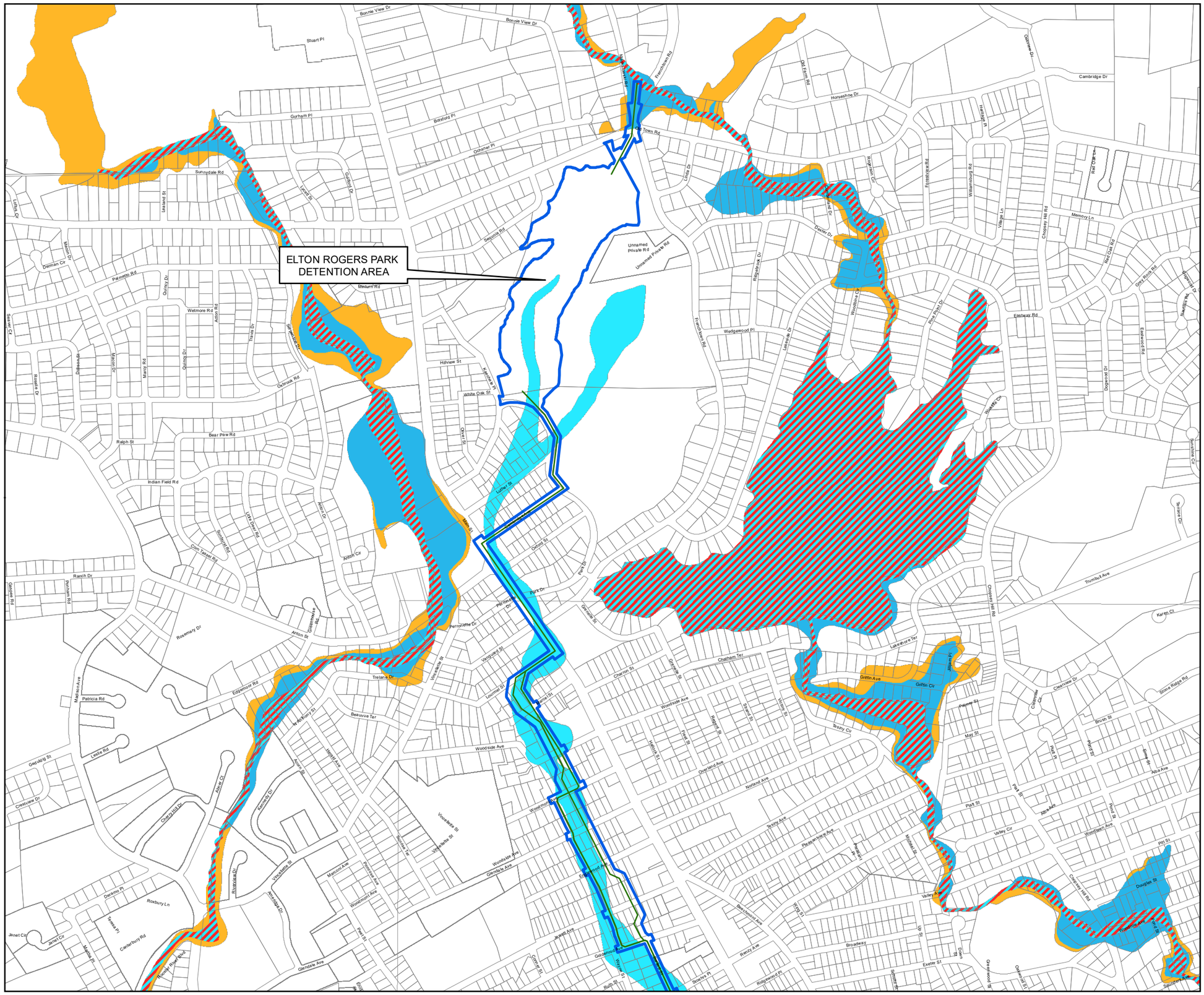
Coastal Resources

Bridgeport is located north of Long Island Sound. The Pequonnock River runs north-south through the City and discharges to Long Island Sound. The entire city has been classified as a Coastal Area as defined in CGS 22a-94(a). However, none of the Project Area is located within the Coastal Boundary, which is a subset of the Coastal Area defined by CGS 22a-93(5). There are no coastal resources within the Project Area. The Project Area relative to the Coastal Area and the Coastal Boundary is shown on **Figure 3-4**.

Floodplains

A floodplain is an area which is susceptible to inundation by floodwaters, typically adjacent to a river. Limits of a floodplain can vary based on flood frequency and severity. For instance, smaller floods may happen more frequently but have flood limits closer to the main channel of a stream or river, while events with more extensive flooding limits happen less frequently. A flood which has a 1% chance of occurring in any given year is sometimes known as "100-year flood" and is referred to by FEMA as the 1% annual chance flood. A flood which has a 0.2% chance of occurring in any given year is known as a "500-year flood" and is defined by FEMA as the 0.2% annual chance flood. When a larger time frame is considered, the chances of both floods increases. For instance, the chance of the 1% annual chance flood event occurring over a 10-year period is 9.6%, while the probability of the 1% annual chance flood event occurring over a 30-year period (the length of many standard mortgages), is 26%. The limits of the 1% and 0.2% annual floods as determined by FEMA along the Ox Brook corridor according to the most recent FEMA National Flood Hazard Layer (NFHL) are shown on **Figure 3-5**.

The current Flood Insurance Study (FIS) that encompasses the city of Bridgeport is the FIS for Fairfield County, Connecticut with the revision date of October 16, 2013. FIS are published by FEMA and establish the boundaries for both the 1% annual chance flood and the 0.2% annual chance flood. FEMA considers the 1% annual chance flood to be the base flood, with the 0.2% annual chance flood to be an area of additional risk for flooding. As previously discussed in Section 2, elevation of a home using state and/or federal funding is considered a critical activity and would require elevation of the residence to the 0.2% annual chance flood elevation plus 2 ft in a coastal community, per communications with DEEP and CT General Statute 25-68.



LEGEND

N

- Project Area
- Project Centerline
- Parcels

Flood Zone, Hazard

- A, 1% Annual Chance Flood Hazard
- AE, 1% Annual Chance Flood Hazard
- AE, Regulatory Floodway
- X, 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- X, AREA OF MINIMAL FLOOD HAZARD

NOTES:

1. FLOOD ZONE DATA ACQUIRED FROM FEMA FAIRFIELD COUNTY GIS LAYERS FOR NATIONAL FLOOD HAZARD LAYER. CITY OF BRIDGEPORT GIS LAYERS FOR PARCELS AND STREET NAMES.

2. FEMA FIRM PANEL 09001C0429G EFFECTIVE 06/18/2010 AND 09001C0427F EFFECTIVE 07/08/2013.

700 350 0 700 Feet

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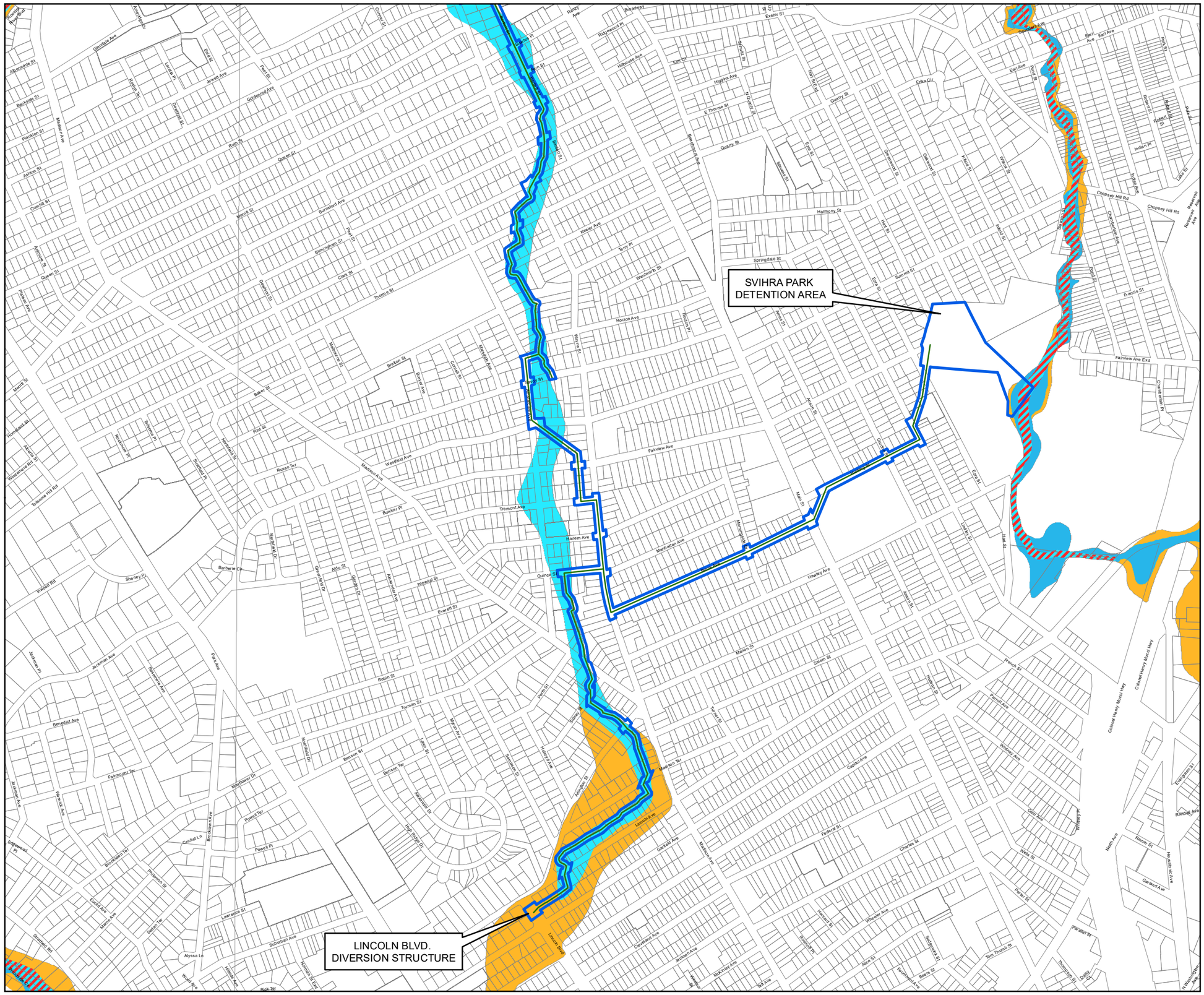
OX BROOK FLOOD CONTROL MASTER PLAN EIE
BRIDGEPORT, CT

FEMA NATIONAL FLOOD HAZARD LAYER MAP

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: CITY OF BRIDGEPORT BRIDGEPORT, CT	
PROJ MGR: JRB	REVIEWED BY: TEJ	CHECKED BY: SLL	FIGURE 3-5
DESIGNED BY: JRC	DRAWN BY: JRC	SCALE: 1 in = 700 ft	
DATE: FEBRUARY 2022	PROJECT NO: 15.0166920.00	REVISION NO:	SHEET NO: 1 OF 2



LEGEND

N

- Project Area
- Project Centerline
- Parcels

Flood Zone, Hazard

- A, 1% Annual Chance Flood Hazard
- AE, 1% Annual Chance Flood Hazard
- AE, Regulatory Floodway
- X, 0.2 PCT ANNUAL CHANCE FLOOD HAZARD
- X, AREA OF MINIMAL FLOOD HAZARD

NOTES:

1. FLOOD ZONE DATA ACQUIRED FROM FEMA FAIRFIELD COUNTY GIS LAYERS FOR NATIONAL FLOOD HAZARD LAYER. CITY OF BRIDGEPORT GIS LAYERS FOR PARCELS AND STREET NAMES.

2. FEMA FIRM PANEL 09001C0429G EFFECTIVE 06/18/2010 AND 09001C0427F EFFECTIVE 07/08/2013.

700 350 0 700 Feet

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OX BROOK FLOOD CONTROL MASTER PLAN EIE
BRIDGEPORT, CT

FEMA NATIONAL FLOOD HAZARD LAYER MAP

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
CITY OF BRIDGEPORT
BRIDGEPORT, CT

PROJ MGR: JRB	REVIEWED BY: TEJ	CHECKED BY: SLL	FIGURE 3-5
DESIGNED BY: JRC	DRAWN BY: JRC	SCALE: 1 in = 700 ft	
DATE: FEBRUARY 2022	PROJECT NO: 15.0166920.00	REVISION NO:	SHEET NO: 2 OF 2

FEMA manages the National Flood Insurance Program (NFIP) which provides flood insurance to property owners, renters, and businesses. This insurance is available to anyone in a participating NFIP community. Flood insurance is available for purchase to anyone in those communities, not just those that live within a regulated floodplain. Flood insurance is required for homes and businesses in high-risk flood areas with government-backed mortgage loans, as well as those who live in a high-risk area and received federal disaster assistance.

The area of 1% annual chance floodplain along Ox Brook within the Project Area is approximately 50 acres and contains approximately 403 parcels. The majority of the floodplain is densely developed. Based on City GIS data (Buildings Structures layer), the 1% annual chance area includes approximately 347 structures either partially or wholly within the flood hazard area (191 residential structures – some of which may be multi-family - with 136 auxiliary structures – garages, sheds, etc.; approximately 19 commercial structures (based on Google Earth review); and one structure identified as a structural ruin in the City's GIS data). Based on insurance claim data provided by FEMA and information maintained by the City, flood impacts have been documented along the Ox Brook corridor, with no single location being a focal point.

The Rooster River and Island Brook corridors also have identified 1% and 0.2% annual chance flood areas, as well as areas of regulatory Floodway. There is no regulatory Floodway along the Ox Brook corridor.

3.1.2.2 Impacts

Surface Water

Ox Brook has been heavily impacted to date by the intense development that surrounds the brook. Sections of the brook have been buried, piped, and culverted, and many sections that remained as open channel have faced encroachment and channelization as development in the watershed progressed. The proposed Project includes plans to resize and, in some cases, realign piped sections of the brook and to provide stable engineered cross sections for open channel sections, with the goal of improving the hydraulic function of the system and reducing flooding. In Elton Rogers Park and Svihra Park, detention areas would be created, which would result in open water storage areas that would discharge to Ox Brook and Island Brook, respectively. The Svihra Park diversion and upgradient diversion from Island Brook to Ox Brook at Elton Rogers Park would result in transfer out of, then back to the Island Brook system, with a goal of allowing both systems to function in a manner to reduce flooding impacts along both streams.

The reduction of flooding in developed areas will reduce the chance for pollutants to enter the floodwater. Polluted floodwaters can further degrade water quality along Ox Brook, more than current urbanization and stormwater inputs already affect the system.

Groundwater

The Project is not expected to result in significant adverse impacts to groundwater quality. The reduction of flooding in developed areas will reduce the potential for floodwaters to contact pollutants. These contaminated floodwaters can recharge groundwater; therefore, the Project has the potential to improve groundwater quality in the area. Creation of the detention areas at Elton Rogers Park and Svihra Park will allow for a modest increase in retention and potential recharge in an otherwise urban area, where the level of imperviousness otherwise limits infiltration opportunities.

Coastal Resources

The Project Area is not located within the Connecticut Coastal Boundary and does not have coastal resources, therefore the Project will not result in any adverse impacts to such resources.

The reduction of flooding in developed areas will reduce the chance for pollutants to enter Ox Brook and to be transported downstream to tidally-influenced surface waters and Long Island Sound. Therefore, a reduction in polluted floodwaters will have a positive impact on coastal waters downstream.

Floodplains

The primary purpose for implementation of the Ox Brook Flood Control Master Plan Project is to reduce flooding impacts for residents and businesses within the city of Bridgeport. Project implementation will result in a reduction in flooding in the Ox Brook area and ideally, with detailed modeling and subsequent filings with FEMA, in the elimination of or a significant reduction in the regulated 1% annual chance flood limits within the corridor. The 2001 Kasper design report indicated that the Project design and intent was to enable "both streams [Ox Brook and Island Brook] to adequately convey waters resulting from a 100-year event" (Kasper, 2001). Because Phases 2-6 of the Project are still preliminary, the number of properties which could be removed from the 1% annual chance flood limits will be determined through future final design work for the various phases; however, the intent remains to remove as many properties as is feasible from the floodplain. As such, the Project will have a positive impact through the reduction in flooding along the corridor and reduction of those within regulated floodplain areas.

3.1.2.3 Mitigation

Surface Water

Design development will include more detailed modeling for Phases 2-6 of the Project and the transfers between Island Brook and Ox Brook to ensure that the Project is designed appropriately for the anticipated design flows and velocities and to maintain or improve aquatic habitat. In the modeling and design for Phases 2-6, future climate change considerations will be made, much as they have been for the design of Phase 1, using the most up to date precipitation data/projections.

During construction, erosion and sedimentation controls will be installed to control potential impacts to surface waters during construction of the Proposed Action, as discussed in other sections of this EIE (see Section 3.2.5.3).

Groundwater

As adverse impacts to groundwater are not expected, no mitigation measures are proposed.

Coastal Resources

As adverse impacts to coastal waters are not anticipated, no mitigation measures are currently proposed.

Floodplains

Because the Project will result in a reduction in flooding for residents and businesses and in the 1% annual chance floodplain, which are positive impacts, no specific mitigation measures are proposed.

3.1.3 Site Ecology and Wetland Resources

Bridgeport is a heavily developed city in southwestern Connecticut. Typical of other urban environments in New England, much of the city's development preceded the onset of environmental laws and regulations in the 1970s, and little consideration was given at the time of development to protecting and preserving wetlands and other natural systems such as forests and general open/green space. The pattern of stream channelization and culverting and encroachment along

floodplain areas typical in New England cities has contributed to the resultant flooding problems in the Ox Brook watershed and associated property damage and threats to human health and safety. Two areas within the Project Area which are less disturbed environments are Elton Rogers Park and Svihra Park, located at the northern and eastern ends of the Project Area, respectively. Between these two parks, Ox Brook is primarily channelized with minimal ecological value, although some ingrowth patches of small tree stands and riparian areas are present. Many segments of the brook are buried underground in pipes and culverts; however, there are segments of open channel that flow between and behind houses and other structures, particularly in the southern segments of the Project Area. Overall, the open channel portions of the system are fragmented and are not a significant wildlife corridor. Within the Project Area, almost 60% of the Ox Brook system is currently piped, with approximately 5,910 LF of open channel, including the channel from the dam outlet to Luther Street.

3.1.3.1 Existing Conditions

Elton Rogers Park

Elton Rogers Park is bounded by Frenchtown Road to the south and east, Kaechele Place to the west, and Sequoia Road and Old Town Road to the north. The park is surrounded by urban/suburban development, with Ox Brook flowing from north to south through the park.

Elton Rogers Park was owned by the Bridgeport Hydraulic Company from ca. 1872 to the 1930s. The company operated a dam in the area that is now the park, which impounded the 15-acre Ox Stream Reservoir. After the reservoir was decommissioned and the property sold, a developer started earth moving activities for a residential subdivision, but the development was never constructed. The City purchased the land in the early 1970s (T&B, 2018).

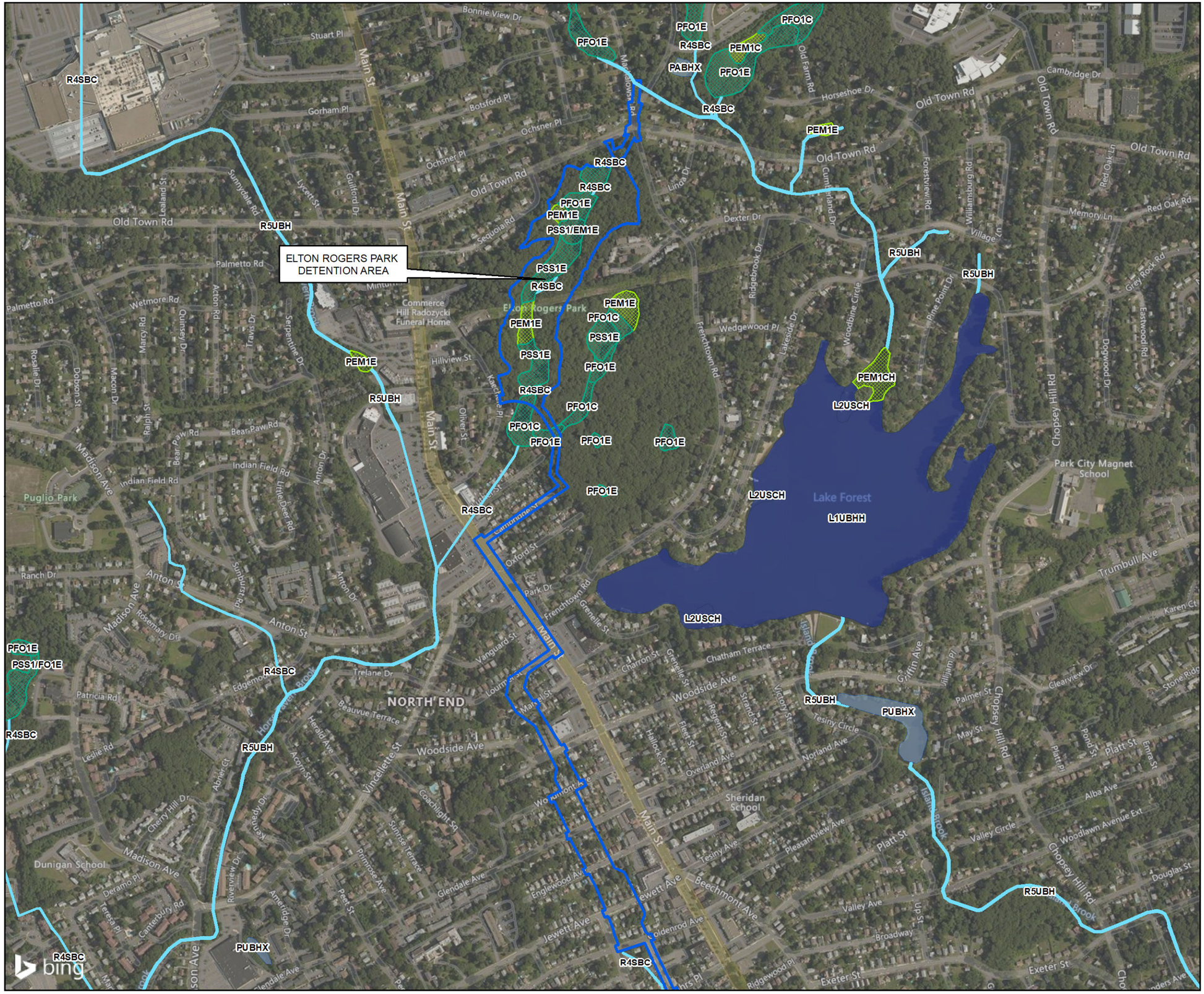
The park is used for passive recreation, with a matrix of unmarked trails running internally in the park. It is forested, consisting of primarily sugar maples (*Acer saccharum*), red and white oaks (*Quercus spp*.), beeches (*Fagus spp*.), white and black birch (*Betula spp.*) as the primary canopy tree composition in the upland areas.

Areas around the brook are typical of fresh water inland wetlands and representative vegetation reported by Tighe & Bond (2018) includes red maple (*Acer rubrum*), highbush blueberry (*Vaccinium corymbosum*), sweet pepperbush (*Clethra alnifolia*), winterberry (*Ilex verticillata*), silky dogwood (*Cornus amomum*), alder (*Alnus spp*.), arrowwood (*Viburnum recognitum*), and spicebush (*Lindera benzoin*). Emergent marsh is present and these areas are predominantly vegetated by common reed (*Phragmites australis*), reed canarygrass (*Phalaris arundinacea*) and sensitive fern *(Onoclea sensibilis*). Shrub inclusions, notably willow (*Salix bebbiana* and *Salix discolor*) were observed throughout the marsh areas (T&B, 2018).

Soils were identified in the Tighe and Bond Engineering Report for the Elton Rogers Park Dam Rehabilitation Project as:

- Timakwa and Natchaug soils (Map Unit 17)
- Ridgebury, Leicester, and Whitman soils (Map Unit 3)
- Aquents

According to the U.S. Fish and Wildlife Service, National Wetland Inventory's online wetlands mapper, the following wetland communities are found within the affected area of Elton Rogers Park. These wetland classifications are based on the Cowardin classification system. The National Wetlands Inventory mapping for the Project Area is included as **Figure 3-6**.



LEGEND

N

- Project Area
- Freshwater Pond
- Lake
- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- Riverine

NWI CODE	NWI CLASSIFICATION CODE
PEM1E	Palustrine (P), Emergent (EM), Persistent (1), and Seasonally Flooded/Saturated (E)
PFO1C	Palustrine (P), Forested (fo), Broad-Leaved Deciduous (1), and Seasonally Flooded (C)
PFO1E	Palustrine (P), Forested (fo), Broad-Leaved Deciduous (1), and Seasonally Flooded/Saturated (E)
PSS1/EM1E	Palustrine (P), Scrub-Shrub (SS), Broad-Leaved Deciduous (1), Emergent (EM), Persistent (1), and Seasonally Flooded/Saturated (E)
PSS1E	Palustrine (P), Scrub-Shrub (SS), Broad-Leaved Deciduous (1), and Seasonally Flooded/Saturated (E)
R4SBC	Riverine (R), Intermittent (4), Streambed (SB), and Seasonally Flooded (C)
R5UBH	Riverine (R), Unknown Perennial (5), Unconsolidated Bottom (UB), and Permanently Flooded (H)

NOTES:

1. BASE MAP SOURCE: BING 2020-2021 IMAGERY.

2. WETLAND DATA ACQUIRED FROM FWS GIS LAYERS FOR NATIONAL WETLANDS INVENTORY WETLANDS. ESTIMATED WETLAND ACQUIRED FROM ROSE. TISO & CO. PHASING PLAN DATED 07 02 2005.

700 350 0 700 Feet

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OX BROOK FLOOD CONTROL MASTER PLAN EIE
BRIDGEPORT, CT

NATIONAL WETLANDS INVENTORY MAP

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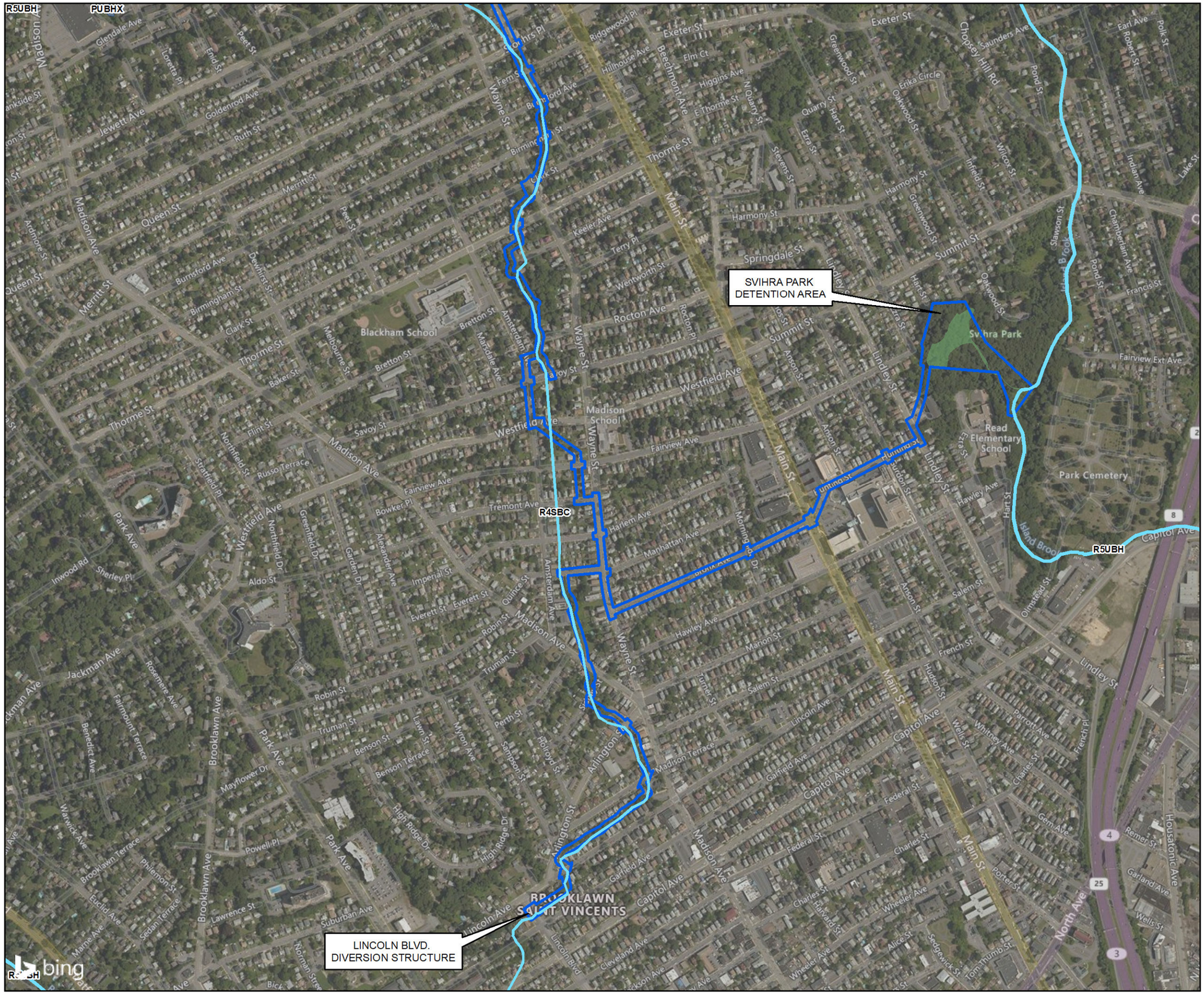
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
CITY OF BRIDGEPORT
BRIDGEPORT, CT

PROJ MGR: JRB	REVIEWED BY: TEJ	CHECKED BY: SLL	FIGURE 3-6
DESIGNED BY: JRC	DRAWN BY: JRC	SCALE: 1 in = 700 ft	
DATE: FEBRUARY 2022	PROJECT NO: 15.0166920.00	REVISION NO:	SHEET NO: 1 OF 2



LEGEND

N

- Project Area
- Freshwater Pond
- Estimated Wetland
- Riverine

NWI CODE	NWI CLASSIFICATION CODE
PEM1E	Palustrine (P), Emergent (EM), Persistent (1), and Seasonally Flooded/Saturated (E)
PFO1C	Palustrine (P), Forested (fo), Broad-Leaved Deciduous (1), and Seasonally Flooded (C)
PFO1E	Palustrine (P), Forested (fo), Broad-Leaved Deciduous (1), and Seasonally Flooded/Saturated (E)
PSS1/EM1E	Palustrine (P), Scrub-Shrub (SS), Broad-Leaved Deciduous (1), Emergent (EM), Persistent (1), and Seasonally Flooded/Saturated (E)
PSS1E	Palustrine (P), Scrub-Shrub (SS), Broad-Leaved Deciduous (1), and Seasonally Flooded/Saturated (E)
R4SBC	Riverine (R), Intermittent (4), Streambed (SB), and Seasonally Flooded (C)
R5UBH	Riverine (R), Unknown Perennial (5), Unconsolidated Bottom (UB), and Permanently Flooded (H)

NOTES:

1. BASE MAP SOURCE: BING 2020-2021 IMAGERY.

2. WETLAND DATA ACQUIRED FROM FWS GIS LAYERS FOR NATIONAL WETLANDS INVENTORY WETLANDS. ESTIMATED WETLAND ACQUIRED FROM ROSE. TISO & CO. PHASING PLAN DATED 07 02 2005.

700 350 0 700 Feet

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OX BROOK FLOOD CONTROL MASTER PLAN EIE
BRIDGEPORT, CT

NATIONAL WETLANDS INVENTORY MAP

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
CITY OF BRIDGEPORT
BRIDGEPORT, CT

PROJ MGR: JRB	REVIEWED BY: TEJ	CHECKED BY: SLL	FIGURE 3-6
DESIGNED BY: JRC	DRAWN BY: JRC	SCALE: 1 in = 700 ft	
DATE: FEBRUARY 2022	PROJECT NO: 15.0166920.00	REVISION NO:	SHEET NO: 2 OF 2

PFO1E/EME1 (Palustrine, Forested, Broad-Leaved Deciduous, Seasonally Flooded/Saturated) – Forested Freshwater Wetland Adjacent to Ox Brook – intermixed with EME1 (Emergent Seasonally Flooded Persistent) – Emergent Freshwater Swamp

This is a forested palustrine system which includes all nontidal wetlands dominated by trees, shrubs, persistent emergents, emergent mosses or lichens, broad-leaved deciduous dominants, and which is seasonally flooded or saturated. This is a typical New England forested swamp. This type of wetland is present at the park to the north of the electrical transmission lines just east of Sequoia Rd.

PSS1E (Palustrine, Shrub-Scrub, Broad-Leaved Deciduous, Emergent, Persistent, Seasonally Flooded/Saturated) – Shrub Freshwater Wetland Adjacent to Ox Brook

This is a scrub-shrub broad-leaved dominated palustrine system dominated by woody vegetation less than 20 feet tall, with emergent and persistent vegetation in the herbaceous layer which is also seasonally flooded or saturated.

R4SBC (Riverine, Intermittent, Streambed, Seasonally Flooded) – Ox Brook

This is a riverine (stream channel) system with some deepwater habitats within a channel, intermittent and seasonally flooded, often associated with the spring thaw and stormwater events. PSS1E and R4SBC are present together, with PSS1E generally bordering wetlands along Ox Brook, from Old Town Road south to where the brook exits the park at Luther Street. Between the dam and the piped system entrance at Luther Street, there is approximately 680 LF of stream.

Luther St. to Quince St./Wayne St.

While the wetlands present at Elton Rogers Park have identifiable ecological value and provide recreational value to the community, the channel within Ox Brook between Luther St. and Quince St. has limited ecological value and is primarily piped. Approximately 24% of this section of the brook is open channel (approximately 2,370 LF), consisting of a combination of soil and concrete/stone substrates. The open channel substrates contain sand from application to the nearby roadways during winter storms in past years. This has negatively affected flow and ecological value. Many of the shrubs or small tree-sized woody plants grow within the sands and mucky areas as well as in the walls of the channel itself where they either grow in cracks of the concrete or between some areas of dry-laid stone. Only small mammals and birds would use these exposed areas of the brook and there would be some but little value to fish, reptiles, and amphibians.

R4SBC (Riverine, Intermittent, Streambed, Seasonally Flooded) – Ox Brook

This is a riverine (stream channel) with some deepwater habitats within a channel which is intermittent and seasonally flooded. It is often associated with the spring thaw and stormwater events.

R5UBH (Riverine, Unknown Perennial, Unconsolidated Bottom Permanently Flooded) – Ox Brook

This denotes a stream channel which has not been identified as either perennial or intermittent; this is common for many small urban streams in New England's heavy infrastructure situation. This can also refer to piped sections of streams.

Quince St./Wayne St. to Lincoln Blvd.

The channel within Ox Brook between Quince St. and Lincoln Blvd has some ecological value as well given that almost 80% of this segment is open channel (2,860 LF) consisting of a combination of soil and concrete substrates. However, wildlife movement is limited by culverted/buried pipe segments throughout this section of the Project Area. The open channel substrates contain sand from application to the nearby roadways during winter storms in past years. This has negatively

affected flow and ecological value. Many of the shrubs or small tree-sized woody plants grow within the sands and mucky areas as well as in the walls of the channel itself where they either grow in cracks of the concrete or between some areas of dry-laid stone. Only small mammals and birds would use these exposed areas of the brook and there would be only minor value to fish, reptiles, and amphibians.

R4SBC (Riverine, Intermittent, Streambed, Seasonally Flooded) – Ox Brook

This denotes a riverine system (stream channel) with some deepwater habitats within a channel which is intermittent and seasonally flooded. It is often associated with the spring thaw and stormwater events.

R5UBH (Riverine, Unknown Perennial, Unconsolidated Bottom Permanently Flooded) – Ox Brook

This denotes a stream channel which has not been identified as either perennial or intermittent; this is common for many small urban streams in New England's heavy infrastructure situation. This can also refer to piped sections of streams.

Quince St./Wayne St. to Svihra Park

The proposed diversion piping from Lincoln Blvd to Svihra Park will be buried primarily below existing City-owned public roads. As the system is piped for a long stretch with no daylighting, this will have limited to no ecological value.

Svihra Park

Svihra Park is a 3-acre park with some ecological value common to small urban parks, with an adjacent undeveloped private parcel (9.9 acres) which the City is negotiating to purchase for use in the Project. The area is bounded to the west by Ezra St. and Fairview Ave., to the south by Read Elementary School, to the east by Island Brook and Park Cemetery and St Mary's Ukrainian Church to the north. The park and adjacent private parcel contain mostly uplands to the west and north. Based on prior mapping of the private parcel and a review of aerial photography, a wetland exists within the middle of the area, although details are limited, as access to the private property was not available during this study period. From aerial photography, it appears to be a deciduous forested wetland with red maple overstory, with an emergent understory. Island Brook flows near the eastern border of the park and private parcel, following topography.

PFO1E/EME1 (Palustrine, Forested, Broad-Leaved Deciduous, Seasonally Flooded/Saturated) – Forested Freshwater Wetland Adjacent to Ox Brook

The wetland is likely defined as a forested palustrine system which includes all nontidal wetlands dominated by trees, shrubs, persistent emergents, emergent mosses or lichens, broad-leaved deciduous dominants, and which is seasonally flooded or saturated. This is a typical New England forested swamp.

R5UBH (Riverine, Unknown Perennial, Unconsolidated Bottom Permanently Flooded) – Island Brook

Island Brook is also a *R5UBH,* similar to Ox Brook, with upstream inputs occurring all year and with less piped areas than Ox Brook.

Along the northwestern portion of Svihra Park and the adjacent private parcel, topographic elevations suggest that a portion of the park holds water during storm events as it is lower in grade than the surrounding streets such as Hart Street and Ezra Street. A small channel is identifiable which suggests flow from the northwest to the southeast to Island Brook. Species composition and soil types are unknown for this location. The soil type in this location is Charlton-Chatfield complex type, which is a well-drained soil type typical of upland soils.

Wetland Functions and Values within Project Area

U.S. Army Corps of Engineers (USACE) published *The Highway Mythology Workbook Supplement, Wetlands Functions and Value, A Descriptive Approach.* USACE's approach was to provide wetlands design engineers, wetland scientists, and the public as a whole, a guide to identify the functions and values of individual wetlands. They identified these in the following classifications Groundwater Recharge/Discharge, Floodflow Alteration (Storage and Desynchronization), Fish and Shellfish Habitat, Sediment/Toxicant/Pathogen Retention, Nutrient Removal, Retention and Transformation, Production Export, Sediment/Shoreline Stabilization, Wildlife Habitat, Recreation (Consumptive and Nonconsumptive), Educational/Scientific Value, Visual Quality/Aesthetics, and Threatened or Endangered Species Habitat.

A principal function common to all reaches of the Ox Brook watercourse and its associated riparian vegetated wetlands (except the channelized/buried portions) is groundwater discharge. The Proposed Action is a flood management project and any additional discharge to groundwater is paramount as a function and value.

Table 3-2. Primary Wetland Functions and Values

Function/Value	Elton Rogers Park	Luther St. to Quince St./ Wayne St.	Quince St./Wayne St. to Lincoln Blvd.	Quince St./Wayne St. to Svihra Park	Svihra Park*
Groundwater Recharge/Discharge	High	Low	Low	N/A	Medium
Floodflow Alteration (Storage and Desynchronization)	High	Low	Low	N/A	Medium
Fish and Shellfish Habitat	Low	Low	Low	N/A	Low
Sediment/Toxicant/Pathogen Retention	High	Low	Low	N/A	Low
Nutrient Removal, Retention and Transformation	High	Low	Low	N/A	Low
Production Export	Medium	Low	Low	N/A	Low
Sediment/Shoreline Stabilization	Medium	Medium	Medium	N/A	Low
Wildlife Habitat	Medium	Low	Low	N/A	Low
Recreation (Consumptive and Nonconsumptive)[1]	Medium	Low	Low	N/A	Low
Educational and/or Scientific Value	Medium	Low	Low	N/A	Low
Visual Quality/Aesthetics	Medium	Low	Low	N/A	Low
Threatened or Endangered Species Habitat	Low	Low	Low	N/A	Low

Source: USACE Highway Methodology Workbook Supplement, 1995 (USACE, 1995)
[1] Consumptive opportunities consume or diminish the plants, animals, or other resources that are intrinsic to the wetland. Non-consumptive opportunities do not consume or diminish these resources.
* This location refers only to the northwest portion of Svihra Park

3.1.3.2 Impacts

Direct impacts are those associated with filling or excavation of wetlands due to dam and berm/dike construction, channel or bank modifications, or construction within the watercourse. Wetlands, the watercourse, or both may also be directly impacted by installation, replacement, or modification to culverts and other drainage features, and the construction and use of temporary access structures and staging areas.

Temporary impacts to wetlands are those that would occur during construction activities. Potential impacts could result from a variety of activities such as cutting of riparian vegetation, disturbance of wetland soils by heavy construction machinery, temporary diversion of watercourses, dewatering of work areas within wetland boundaries, discharge of dewatering flow, installation of erosion and sedimentation controls, and temporary increases in water temperature and turbidity, among other activities.

The USACE Methodology for wetland evaluation and impact assessment was used as the basis for assessing impacts associated with the flood control improvements. The functions and values of those wetlands that are expected to be impacted were assessed, as well as avoidance and minimization of likely wetland impact areas.

Impacts to corridor area wetlands could potentially affect several of the functions and values as discussed above. The functions and values assessment undertaken revealed that the principal functions with the greatest potential impact are Groundwater Discharge and Floodflow Alteration (storage). Phase 1 of the Project would significantly benefit flood storage within the Project Area which is a significant benefit to properties and public safety.

The principal function with the second greatest impact would be Groundwater Recharge/Discharge (most sites within the corridor are discharge areas which sustains the base flow of Ox Brook); others include, Sediment/Toxicant/Pathogen Retention and Recreation.

The least-affected functions and values are education, uniqueness/heritage, visual/aesthetics, and finfish habitat, rare and endangered species. These functions and values are not impacted to a great extent because they are encountered less often or would still be provided within the system overall since major elements of these functions are incorporated into the conceptual design either directly or indirectly.

Elton Rogers Park

Within Elton Rogers Park, a dam rehabilitation and water diversion to the park area will result in increased inundation by flood water. Currently, impounded water, and to some degree Ox Brook flow itself within the channel, provide the hydrology to create wetlands behind the dam which wouldn't have otherwise been present as bordering wetlands on each side of the channel. The proposed flood control improvements will require temporary and permanent impacts to wetlands within the park, including impacts areas adjacent to existing wetlands.

Estimated wetland impacts are provided herein. Tighe & Bond prepared the Elton Rogers Park Dam Reconstruction Permit Submission, dated September 30, 2018 (see **Appendix A**) and impact numbers were calculated for wetland impacts and impoundment enlargement. Those values are provided herein.

An impoundment enlargement area is proposed at Elton Rogers Park, with the intent to use the dam to increase the storage volume, thereby relieving some of the flooding associated with storm events. Within the proposed impoundment enlargement area, some areas close to the dam will become inundated for longer periods during the year. This will result in impacts or modifications to wetland areas because, based on the plans in T&B (2018), the invert (bottom) elevation of the lowest level outlet (a 48" drawdown pipe located at the bottom of the outlet control structure) is positioned at elevation 188.1, with a proposed inundation elevation of 190.1 for the 1-inch rainfall event (increase of square footage from 652 to 25,911) and elevation 192.4 for a 1-year rainfall event(increase of square footage from 41,058 to 86,770). The existing low-level orifice through the outlet structure has an invert at elevation 184.0. This shows that under proposed conditions, more of the park will be inundated during certain times, covering more of the existing wetlands than existing conditions do.

An increase in discharge to groundwater in locations in and around the existing wetlands may result, thereby enhancing existing wetlands, although this will result in some fringing vegetated inland wetlands which are seasonally flooded to experience increased inundation. This will result in a change in wetland type at Elton Rogers Park from forested and scrub-shrub to open water and emergent. Adjacent to the dam, existing trees will need to be removed for dam safety compliance.

In the southern portion of Elton Rogers Park, an outlet pipe is proposed to be installed between the dam and Cambridge Street. This pipe is proposed to be 18" in diameter with a required maintenance width of 10' along the pipe corridor. The pipe will need to be installed through a wetland near the dam, identified as PFO1E, and will require some trees to be removed and a temporary trench to be installed. The pipe would run to Cambridge Street. While the existing channel between the dam and Luther Street will remain, the modification in the flow path may alter the hydrologic regime in the stream and wetland at this location.

Table 3-3. Wetland Impacts at Elton Rogers Park

Area	Wetland / Watercourse Impacts
Staging Area off Kaechele Place	None
Watercourse South of Dam	85 LF
Dam	Direct: 19,777 SF Indirect: 9,228 SF Total: 29,005 SF
Temporary Access from Dam to Impoundment Enlargement Area	None
Impoundment Enlargement Area	Direct: 4,231 SF Indirect: 3,998 SF Total: 37,234 SF
Northeast Dike	None
Cambridge Street	1,700 SF (estimated)

Note: Source of impact values for dam and impoundment enlargement area: Tighe & Bond *Engineering Report*, 2018. Other values estimated using GIS and information from Tighe & Bond re: impacts.

Luther St. to Quince St./Wayne St.

During Phase 1 and Phase 6, there will be little to no impacts outside of Elton Rogers Park. As the Project progresses in Phases 2-5, portions of Ox Brook will be impacted for channel improvements to open channel portions of the Project. Temporary construction phase impacts will occur for channel modifications, which have the potential for some impacts to fisheries and microbiota. It is expected that impacts will be temporary and at that, once restored, the aquatic species will quickly repopulate. Impacts to vegetation and the brook in areas that will remain as open channel will occur, as the vegetation will be removed where needed for construction activities, and the bases and sides of the channel segments will be modified and stabilized. Although the ecological value is low in these areas, it does exist. Over time, new sediment deposition locations will form, and lost value will return.

Piped and culverted portions of the system run mostly along city streets, such as Cambridge St. to Main St., down Lourmel St., under and between houses between Lourmel St. and Goldenrod Ave., all the way to Lincoln Blvd. and over to Svihra

Park. The limited areas proposed to be piped rather than left as open channel will lose ecological function except to maintain flow connectivity.

Overall, in this section, approximately 60 LF of net open channel will be added. The short open channel segment between Glendale and Englewood Avenues will be converted to piped, but two other sections that are currently piped (one in the area of Fern Street to Burnsford Avenue and one area near Savoy St.) will become open channel.

Quince St./Wayne St. to Lincoln Blvd.

Channel improvements from Lincoln Blvd. and Quince St./Wayne St. are primarily in open channel areas, with some piped areas under city streets in culverts such as under Madison Terrace, Arlington Street, and Madison Avenue for example. Improvements to the open channel will require the reforming of the channel walls. As in other areas, ecological function is present but limited and will be impacted temporarily by construction activities which include vegetation removal and substrate work. This will impact any aquatic species present in the channel and other small birds and mammals present in the vegetation or in the channel walls and substrate. Within this segment, there will be net change in the length and distribution of open channel sections.

Quince St./Wayne St. to Svihra Park

All of the proposed areas between Quince St. and Svihra Park will be piped under existing streets, and as such, no impacts to ecological function are anticipated, except for those related to the diversion of flow from Ox Brook to Island Brook in this location.

Svihra Park

A new detention area is proposed at Svihra Park and the adjacent private parcel. Based on limited available information, it appears the detention area would be approximately 3 acres, located in an area which, based on information associated with past site development (Rose Tiso & Co., 2005), appears to contain approximately 1.8 acres of wetland area. After reviewing topographic mapping and aerial photography, it is likely that this area receives stormwater discharge from local streets such as Ezra St., Hart St., and others. The new detention area proposed will require the removal of trees which are located within the footprint of the proposed detention area in order to excavate the detention storage volume. It is likely that inundation from stormwater and diverted stream flows in this area will result in an emergent marsh wetland over the long term. Greater inundation at this location may change is vegetation regime; currently, aerial photographs show that it is a mature deciduous forested area.

The Proposed Action will result in the increased discharges to Island Brook at the park/private parcel location. This discharge will need to be quantified not only for stormwater design but also for any potential impacts by increased flow in the channel, such as bank overtopping. This possibly may change the channel boundaries and this may also impact the stream's functions and values as described above.

3.1.3.3 Mitigation

Most of the wetland-related impacts associated with the flood mitigation measures would be attributed to work at Elton Rogers Park and Svihra Park, as well as impacts to the riverine perennial watercourse riparian areas along the brook.

While the detention areas being created at Elton Rogers and Svihra Parks will result in wetland impacts, this work would also provide opportunities for additional flood storage and wetland habitat creation in those areas. The local wetland approval issued for Phase 1 of the Project in April 2018 included restoration requirements in areas disturbed for Project

laydown and the additional flood storage area which will include created wetland. Restoration requirements include elements such as tree and shrub planting, rock piles for wildlife habitat, microtopography, and minimum average soil depths.

Direct impact to wetlands and watercourses resources within the Project Area may be mitigated through implementation of the USACE's In-Lieu Fee program, as is currently proposed for Phase 1 of the Project. The In-Lieu Fee program is one in which a project proponent who cannot reasonably avoid or mitigate an impact to wetlands pays into the program (currently coordinated between USACE and the Connecticut Audubon Society) where money is paid by the proponent (based on a unit fee per square foot of impact by wetland type) which is then used to enhance another wetland or wetland system within the same watershed. It has not been determined if this is the final course of action, but this would be determined on a phase-by-phase basis and is currently proposed for impacts associated with Phase 1 of the Project.

The State of Connecticut and local municipalities do not participate in the In-Lieu-Fee program. As such, it is anticipated that additional restoration or mitigation measures will be imposed by the Bridgeport Inland Wetlands and Watercourses Commission and CT DEEP as part of their respective review processes for the various project phases.

As the channel work is to improve and restore the condition of current degraded and eroded channel sections, there will be an overall net improvement to wetland conditions, therefore mitigation may not be required.

3.1.4 Endangered, Threatened, and Special Concern Species or Habitats

3.1.4.1 Existing Conditions

Rare species and their habitats are regulated under the Connecticut Endangered Species Act (ESA) (CGS Section 26-303 to 26-315) and the Federal Endangered Species Act. The purpose of these acts is to conserve, protect, restore and enhance any endangered or threatened species listed at the state or national level. The Northern long-eared bat is federally listed as a threatened species across Connecticut; however, the CT DEEP Natural Diversity Data Base (NDDB) mapping indicates that there are no known hibernacula within Bridgeport or surrounding communities and no known maternity roost trees in the area. The CT DEEP List of Endangered, Threatened, and Special Concern Species, prepared pursuant to Connecticut's Public Act 89-224 "An Act Establishing a Program for the Protection of Endangered and Threatened Species" (1989) was referenced to identify potential listed species in the Project Area, with the listing categories defined as follows in the Act:

- "**Endangered Species**": any native species documented by biological research and inventory to be in danger of extirpation throughout all or a significant portion of its range within the state and to have no more than five occurrences in the state, and any species determined to be an "endangered species" pursuant to the federal Endangered Species Act.

- "**Threatened Species**": any native species documented by biological research and inventory to be likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range within the state and to have no more than nine occurrences in the state, and any species determined to be a "threatened species" pursuant to the federal Endangered Species Act, except for such species determined to be endangered by the Commissioner in accordance with Section 4 of this act.

- "**Species of Special Concern**": any native plant species or any native nonharvested wildlife species documented by scientific research and inventory to have a naturally restricted range or habitat in the state, to be at a low population level, to be in such high demand by man that its unregulated taking would be detrimental to the conservation of its population or has been extirpated from the state.

According to CT DEEP's NDDB GIS datalayer (last updated June 2021, accessed Oct 2021) no endangered, threatened, or special concern species areas are identified in or adjacent to the Project Area. The closest mapped area is 0.67 miles away from the Project Area, beyond the Ox Brook watershed.

3.1.4.2 Impacts

As there are no identified NDDB areas within the Project Area or immediate vicinity, the Project is not expected to impact listed Connecticut species or their habitats.

3.1.4.3 Mitigation

As no impacts to listed species are anticipated, no mitigation is proposed at this time relative to Endangered, Threatened, or Special Concern species.

3.2 PHYSICAL ENVIRONMENT AND INFRASTRUCTURE

3.2.1 Traffic, Bicycle, and Pedestrian Access

3.2.1.1 Existing Conditions

The Project Area primarily includes local roadways in urbanized neighborhoods. The nearest highway is Route 1, which is located south of the Project Area. Route 15 is located to the north of the Project Area, with Route 8 to the east. The majority of the Project Area is located west of Main Street, with the exception of areas associated with Phases 2 and 6, which are located to the east of Main Street. Main Street and Lincoln Boulevard are the only four-lane roads crossed by the Project Area; the majority are two-lane local roadways. Most streets overlapping with the Project Area have sidewalks for pedestrians, except for areas along Cambridge Street, Lourmel Street, Marcel, Street, Kaechele Place, and parts of Woodside Avenue. North of Elton Rogers Park, Old Town Road, Frenchtown Road, and Machalowski Road do not have sidewalks. According available state and local GIS data, there are no bike paths/bikeways within the Project Area corridor. In addition, there are a few off-road walking trails within Elton Rogers Park and Svihra Park within or adjacent to the Project Area.

There are numerous existing street crossings where Ox Brook crosses under roadways, through a combination of box culverts and piped crossings, listed below from north to south:

- Luther Street
- Main Street
- Lourmel Street
- Marcel Street
- Woodside Avenue
- Woodmont Avenue
- Glendale Avenue
- Englewood Avenue
- Jewett Avenue
- Goldenrod Avenue
- Queen Street/Stoehrs Place
- Fern Street
- Burnsford Avenue
- Birmingham Street
- Clark Street
- Wayne Street
- Thorme Street
- Rocton Avenue
- Savoy Street
- Westfield Avenue
- Fairview Avenue
- Amsterdam Avenue
- Tremont Avenue
- Harlem Avenue
- Quince Avenue
- Madison Avenue
- Sidney Street
- Arlington Street
- Madison Terrace
- Lincoln Avenue
- Lincoln Boulevard

3.2.1.2 Impacts

Construction of the proposed Project will cause short-term disruptions to local traffic and pedestrian/bicycler rider usage patterns along city streets in the Project Area for construction of improved street pipe and culvert crossings, as well as temporary disruptions associated with the construction of diversion box culverts associated with the Svihra Park and Elton Rogers Park detention areas.

The Proposed Project would cross or run along additional streets, listed below from north to south, with new culverted sections, primarily related to the Svihra Park diversion and Island Brook diversion to the Elton Rogers Park detention area:

- Machalowski Road
- Old Town Road
- Frenchtown Road
- Cambridge Street
- Bartlett Street
- Stoehrs Place
- Bronx Avenue
- Hunting Street
- Lindley Street

In the long-term, the Project will have a positive impact on transportation in this area of the city for vehicles, pedestrians, and bicycle riders. Many of the roadways within the Project Area currently flood, making them impassable at times. The improvements associated with the Proposed Action will result in decreased flooding of local streets, thus improving pass-ability, as well as safety of these roadways and walkways post-construction.

3.2.1.3 Mitigation

The only negative transportation/traffic impact associated with the Project will be short-term disruptions related to construction. The City of Bridgeport will inform residents of construction through the local newspaper and will ensure that the contractor(s) establish plans for the maintenance and protection of traffic, including setting up detours and signage and accommodations for home and business access and parking. Because of the dense network of streets in the Project Area, anticipated detours will require relatively short distances with minimum increased travel time.

3.2.2 Air Quality

3.2.2.1 Existing Conditions

Under the Federal Clean Air Act (CAA) and its associated amendments (42 USC 7401 et seq.), the federal government regulates and sets National Ambient Air Quality Standards (NAAQS) for six "criteria" air pollutants through the United States Environmental Protection Agency (EPA) by developing human health-based and/or environmentally-based criteria which are used to set primary standards (human health-based) and secondary standards (prevention of environmental and property damage based).

The six criteria air pollutants are listed below:

- Nitrogen oxides (NO_x),
- Sulfur dioxide (SO_2),
- Lead (Pb),
- Carbon monoxide (CO),
- Particulate matter with a diameter of 10 microns or less (PM_{10}) and 2.5 microns or less ($PM_{2.5}$), and
- Ozone (O_3).

In accordance with CAA requirements, the State of Connecticut has adopted its own air quality standards that mimic the NAAQS and are administered by the CT DEEP. The CT DEEP Bureau of Air Management Ambient Air Monitoring Group monitors air quality to protect the public health and environment. In order to assess air quality, a network of monitoring stations is located throughout the state. According to the *Connecticut 2020 Ambient Air Monitoring 5-Year Network Assessment*, the current network consists of 14 stations, which monitor from one to several air pollutants. The two air monitoring sites nearest to the Project Area are the Roosevelt School in Bridgeport, and the Stratford Unites States Coast Guard (USCG) Lighthouse. The Roosevelt School site collects data for $PM_{2.5}$, PM_{10}, and SO_2, while the Stratford Lighthouse site collects data for ozone.

Areas of the state are designated as "attainment" or "non-attainment" for a particular criterion pollutant based on the monitoring data. Attainment areas are those which show no exceedances of the primary or secondary air quality standards. According to the EPA *GreenBook* website (2021), the entire state of Connecticut is in attainment for $PM_{2.5}$, SO_2, Pb, and NO_2. Fairfield County was designated as "Maintenance" for CO, as of September 27, 2010. However, portions of the state of Connecticut, including the Project Area, are designated as moderate nonattainment for 8-hour ozone, per the 2015 standard.

Under the Clean Air Amendments of 1990, each state was required to develop a Title V operating permit program to regulate major sources of air pollution and other sources subject to federal Clean Air Act requirements. In Bridgeport, the companies with Title V permits include Bridgeport Energy (issued September 2021), PSEG Power Connecticut, LLC (Bridgeport Harbor Station) (issued April 2019), Sprague Operating Resources, LLC (issued January 2020), and Wheelabrator Bridgeport, L.P. (issued December 2014).

Sources of air pollution in the Project Area are derived from stationary sources and mobile sources.

Mobile Sources

Emissions from mobile sources, i.e., automobiles, principally include CO, nitrogen oxides - NO_x, and volatile organic compounds - VOCs. NO_x and VOCs are of concern because in hot, sunny weather they can contribute to the formation of ozone on a regional (mesoscale) basis. Therefore, these pollutants are typically most problematic in the summer and are related to the total Vehicle Miles Traveled (VMT) in the region.

Conversely, CO is most problematic in the winter, since CO emissions are highest when low temperatures favor the incomplete combustion of gasoline in vehicle engines. The formation of extended queues at stop signs and signalized intersections is a necessary condition for CO concentrations to exceed air quality standards. When cars idle in queue over a period of time, accelerate, and decelerate they produce emissions in excess of what would be generated if the cars were traveling in an uninterrupted or sporadically interrupted flow. The effects of CO are most concentrated immediately adjacent to traffic corridors and, therefore, are more appropriately considered on a local (microscale) basis.

Existing mobile sources of air pollution in the Project Area are limited to traffic generated by commuters, residences, and local businesses.

Stationary Sources

Stationary sources include air emissions related to energy sources, such as boilers, furnaces, or commercial and industrial sources. Existing conditions related to Ox Brook do not involve any stationary sources of air emissions, as the brook and associated culverts, channels, and piped sections do not have any energy demands.

3.2.2.2 Impacts

Potential air quality impacts would be limited to construction phase impacts from mobile sources associated with construction vehicles, as well as limited vehicle traffic detours associated with temporary traffic diversions around the Project Area construction. Construction-related air quality impacts can be caused by exhaust emissions from construction equipment and fugitive dust (e.g. windblown dust from the construction area), but these impacts would be temporary. During construction, temporary stationary source pollutants would be generated by the fuel burning equipment needed for construction, such as temporary generators and stationary construction equipment. Mobile sources of air pollution would be associated with operating construction vehicles, such as excavators, bulldozers, dump trucks, cranes, etc.

Post-construction, the Project will not result in new mobile or stationary sources of air pollutants.

3.2.2.3 Mitigation

To mitigate these temporary construction-phase impacts, the Project will incorporate the best management practices identified herein. Construction work in the Project Area will adhere to the following measures and all applicable local, state, and federal policies, to mitigate temporary air quality impacts during the construction period:

- All diesel-powered non-road construction equipment with engine horsepower ratings of 60 and above that are on the Project or are assigned to the contract for a period in excess of 30 consecutive calendar days shall be retrofitted with emission control devices (oxidation catalysts, or similar retrofit equipment control technology);
- All motor vehicles and construction equipment (both on-highway and non-road) shall comply with all pertinent state and federal regulations relative to exhaust emission controls and safety;
- Idling of delivery and dump trucks or other diesel-powered equipment shall be limited to three (3) minutes during non-active use in accordance with RCSA (Regulations of Connecticut State Agencies) Section 22a-174- 18(b)(3)(C);
- All work shall be conducted to ensure that harmful effects are not caused to adjacent sensitive receptors such as residences. Diesel engines shall be located away from fresh air intakes, air conditioners, and windows, except for when in motion; and,
- Control of fugitive dust through best management practices (BMPs) shall be required. In addition to using vegetative cover over large areas of disturbed earth, water can be effective as a control measure against fugitive dust on construction sites if applied often enough. In necessary, solid fencing tall enough to keep dust from migrating offsite could be applied.

3.2.3 Noise

3.2.3.1 Existing Conditions

Several factors affect the perception of noise by the people who are exposed to it. These include the actual noise level, the frequencies involved, and the duration of exposure. The noise heard by humans is the result of a sound source inducing vibration in the air. The vibration produces alternating bands of varying densities in the air, spreading outward from the source in the same way as ripples do on water. The result is a fluctuation from the normal atmospheric pressure, or sound waves. The ear is sensitive to sound pressure fluctuations, which are converted into auditory sensations. The loudness of a noise source is indicated by the amplitude of the sound pressure. The amplitude is a measure of the difference between atmosphere pressure (in the absence of noise) and the total pressure (with noise present).

The unit of sound pressure is the decibel (dB). The decibel scale is a logarithmic scale. A logarithmic scale is used due to the intensity of the range of sound; it is convenient to compress the scale to encompass all sounds that need to be measured. The human ear has an extremely wide range of response to sound amplitude. A method for weighting the frequency spectrum to more closely represent how humans hear and perceive noise is called A-weighting. This method gives less weight (or emphasis) to both the high and low frequency ends of the spectrum where human response is poor. A-weighting is widely accepted as an appropriate measure to describe the effects of environmental noise. When a noise level is so weighted, its level would be written as dBA.

In addition to sound pressure and frequency, the type of sound is important when considering human impacts, as certain types of sounds may be more acceptable than others. Human annoyance based on noise depends on factors such as personal sensitivity to noise and the source, number of occurrences, and time of day.

Federal noise regulations include the Noise Pollution Act of 1972, which placed the primary responsibility for noise control with state and local governments. At the state level, the Noise Pollution Control Statutes in Chapter 442 identify the limits of sound that may be emitted from a specific site and what activities are excluded or exempt. Examples of exempt noise sources are mobile sources, safety alarms, construction and demolition equipment, and sporting events. Noise zones are classified as Zone A, B, or C, as described below:

- Zone A includes residential areas, hotels, cultural activities, entertainment and recreational activities, historic sites, and undeveloped land.
- Zone B includes transportation, communication, and utilities, parking areas, trade, various business services, cultural, recreational, and entertainment, amusement areas, reports, parks, and water areas.
- Zone C includes manufacturing, warehousing, military establishments, mining, and other services.

The City of Bridgeport maintains its own noise control regulations, stated in Chapter 8.80. As shown in **Table 3-4,** taken below from 8.80.040, the City's standards mimic the State's noise standards, although the defined limits of the terms daytime and nighttime differ from the State regulations.

The City of Bridgeport defines "Day-time hours" as 7AM through 6PM Monday through Friday, and the hours between 9AM through 6PM on Saturday and Sunday, while "Night-time hours" are defined as 6PM-7AM Monday through Friday and 6PM-9AM Saturday and Sunday.

Table 3-4. City of Bridgeport Noise Standards

Emitter' s Zone	Industrial	Commercial	Residential/Day	Residential/Night
Residential	62 dBA	55 dBA	55 dBA	45 dBA
Commercial	62 dBA	62 dBA	55 dBA	45 dBA
Industrial	70 dBA	66 dBA	61 dBA	51 dBA

In relation to construction activities and equipment, the City of Bridgeport states in Section 8.80.040(E)(7), noise created by construction equipment during daytime hours is exempt from the City of Bridgeport regulations, provided that construction noise during nighttime hours does not surpass the regulation's maximum noise levels. The excavation of streets or highways, as stated in 8.80.050(C)(7), if not necessary for public safety, is prohibited between 6PM-7AM Monday through Friday and 6PM-9AM on Saturday and Sunday and nonlegal holiday weekdays, unless the excavation is necessary for public safety, even if maximum noise levels have not been exceeded.

Noise is often considered in terms of sensitive potential receptor locations, therefore the impact discussion herein focuses on such locations. The study corridor was assessed for potential noise generation sources and receptors in the Project Area or adjacent. Existing noise in the Project Area is linked to existing land uses (residential, open space, with limited commercial/industrial uses) and to traffic along existing roadways. The only noise directly associated with Ox Brook and its associated sections (culverts, piped sections, open water channels) is due to the passive movement of water within the system.

A desktop analysis to review potential receptors identified approximately 27 non-residential receptor sites within 500 ft of the Ox Brook Project Area representing potentially noise-sensitive sites such as schools, learning centers, daycares, places of worship, cemeteries, funeral homes, parks, hospitals/medical care facilities, and libraries (see **Table 3-5**). In addition, there are numerous residential properties throughout the corridor that are close to the proposed construction work.

Table 3-5. Non-Residential Noise Receptors Proximal to Ox Brook.

Receptor	Approximate Distance from Ox Brook Work Areas (ft)	Direction from Construction
Schools/Learning Centers		
Blackham School	212	W
Cheyenne's Early Learning Center	643	W
Madison School	134	E
Ms. LeShonda's Neighbor School	104	W
Precious Memories Early Childhood Learning Center	537	E
Read Middle School	300	E
The Connection - Start Program Bridgeport	128	E
Training Direct - Bridgeport Campus	128	E
Places of Worship, Cemeteries, and Funeral Homes		
AEMJC Prayer Line and Prayer Requests	10	E
Bridgeport Bible Fellowship Church	212	W
Congregation Agudas Achim	186	W
Home Church New England, Inc	380	E
Iglesia Bautista La Nueva Jerusalen	48	E
New Jerusalem Baptist Church	48	E
St Mary's Ukrainian Church	413	NE
Commerce Hill Radozycki Funeral Home	873	NW
Park Cemetery	200	E
Parks		
Elton Rogers Woodland Park	0	E
Svihra Park	0	N
Hospitals/Medical Care Facilities		
AFC Urgent Care Bridgeport	37	E
Northbridge Health Care Center (Nursing Home)	115	N
Saint Vincent's Hospital	10	S

Receptor	Approximate Distance from Ox Brook Work Areas (ft)	Direction from Construction
Daycares		
Busy Beaver Extended Day Program Inc	4	E
Kidz Learning Day Care	516	S
Little Stars Daycare	28	S
The Precious Moment Daycare	508	E
Libraries		
Daniel T. Banks Health Science Library	10	S

3.2.3.2 Impacts

Noise impacts associated with the Project Area would be limited to the construction-phase. Construction will result in temporary construction-phase impacts associated with the construction and demolition equipment needed to construct the Project. No long-term noise impacts are anticipated, due to the nature of the Project. **Table 3-5** includes non-residential sensitive noise receptors within 500 ft of the Project Area, which may experience increased noise levels during construction.

Noise levels experienced during construction at these locations and residential properties in the Project Area and vicinity will depend on a variety of factors including, but not limited to: distance from construction, type of construction and equipment used, elevation relative to construction, presence of noise-abating objects (fences, trees, buildings), wind direction, and humidity.

3.2.3.3 Mitigation

Construction noise is exempt under State noise regulations and as described above in the City's noise control regulations; however, as discussed in the Air Quality section of this EIE, vehicle idling will be limited to three minutes, prohibiting extensive idling noise. In addition, the majority of the construction activities associated with the Project will be during daytime hours as defined by the City of Bridgeport's regulations; however, in limited cases due to deadlines or types of work being constructed, there may be requests from the Contractor for waivers from these requirements. The Contractor shall also provide notice to sensitive receptors prior to construction activities, in coordination with the City.

3.2.4 Light and Shadow

3.2.4.1 Existing Conditions

There are three kinds of light pollution: trespass, skyglow and glare. Light trespass is light that extends beyond property lines. Skyglow is the garish blue hue seen overhead from artificial light scattering in the atmosphere. The reflected light masks the background stars and creates a pallid-looking sky. Glare is light striking your eye directly from the source. The Project Area is characterized by varying degrees of luminescence, but it is primarily highly illuminated because of the dense residential and commercial development and the density of improved streets with overhead lighting. More commercial areas such as the Main Street corridor and areas near St. Vincent's Medical Center generally have higher levels of luminescence than the surrounding residential portions of the Project Area.

Areas of lower luminescence include the undeveloped Elton Rogers Park at the northern end of the Project Area, where density of development and streets is reduced, as well as the Svihra Park area and adjacent parcel proposed for the detention area, which are both primarily wooded and undeveloped. For each of these, there is some degree of light trespass

and skyglow associated with the adjacent urbanized neighborhoods. In addition, some portions of the Project Area currently include open channel areas between homes and streets, which may have lower levels of luminescence.

3.2.4.2 Impacts

The Proposed Action may result in temporary increases in light trespass where trees are removed for the reconstruction or widening of existing open channels. During construction, there may be an increase in light needed for construction at dawn and dusk hours, although the majority of the work will be done during the City's designated daytime hours per the City's noise regulations. There will be no long term increases in light emission that will occur as a result of the Project, due to the nature of the Project.

3.2.4.3 Mitigation

Light emissions from construction work will be minimized by conducting the majority of work during daylight hours. Along the reconstructed/newly constructed channels where light trespass may increase, fast growing vegetation could be planted to mitigate the impact. There are no long-term impacts anticipated as a result of the Project; as such, no other formal mitigation is proposed relative to light and shadow.

3.2.5 Utilities

For discussions regarding electricity and natural gas utilities, please refer to the Energy section of this document. All other utilities are discussed in this section.

3.2.5.1 Existing Conditions

Water Supply

The public water supply in Bridgeport is provided by the Aquarion Water Company (Aquarion) by a series of reservoirs and well fields. Water generated from these sources is filtered, treated through disinfection, fluoridation and other methods, and distributed to approximately 372,400 people throughout the greater Bridgeport area to satisfy an average demand of 44 million gallons per day (mgd). The current sources of Aquarion's water supply are the Aspetuck, Easton Lake, Far Mill, Hemlocks, Means Brook, Saugatuck, Trap Falls, and West Pequonnock Reservoirs and Westport and Coleytown well fields (Aquarion Water Company, 2020). Aquarion is responsible for not only for supplying water, but also ensuring operation and routine maintenance of the system.

None of the reservoirs are within three miles of the Project Area, and the reservoirs and wells are outside of the Ox Brook 1% annual chance floodplain and the Project Area.

Wastewater

The sanitary sewer system is operated by the City of Bridgeport's Water Pollution Control Authority (WPCA). The WPCA is responsible for the operation of two wastewater treatment plants, the West Side Treatment Plant with a capacity of 30 mgd and the East Side Treatment Plant with a capacity of 10 mgd (SLR Consulting, 2021). Both treatment plants are located at the south end of the city, outside of the Project Area. The entire system has approximately 290 miles of sewer main with nine pump stations. Treated effluent from the West Side Treatment Plant is discharged to Cedar Creek in Black Rock Harbor and effluent from the East Side Treatment Plant is discharged to Powerhouse Channel in the Pequonnock River. The Project Area discharges into the portion of the system which is treated at the West Side Treatment Plant.

Portions of Bridgeport have a combined sewer system. However, the system in the Project Area is a separate storm sewer system, as discussed in the Stormwater section. In CSO areas, during periods of high wastewater volume during larger precipitation events, some wastewater may be either partially treated at one of the treatment plants or be discharged via one of 25 combined sewer overflows (CSOs) directly into a surface water (a CSO event). The City's CSOs are subject to a Long-Term CSO Control Plan and multiple Administrative Consent Orders with CT DEEP, which include milestones for addressing CSOs in the City's system.

Based on a review of CT DEEP's Bypass and CSO Events Public Viewer in October 2021, three CSO events, all in excess of 100,000 gallons, occurred outside of the Project Area, downstream of the proposed Svihra Park discharge area into Island Brook in 2021. Two bypass events were also identified within the Project Area associated with a separate sanitary sewer system, at Bartlett Street and Goldenrod Avenue in 2020 and Bartlett Street and Stoehrs Place in 2021. A bypass event also occurred near the Project Area along Goldenrod Avenue in 2017. All three bypass events were caused by blockages in the sewer system due to grease, according to the DEEP viewer.

Stormwater

The City's municipal stormwater system is a combination of a separate storm sewer system and a combined sewer system (as mentioned above in the wastewater section). The City is actively working on sewer separation projects to address those areas that still have combined sewers. Areas north of Route 1, including in the Project Area where stormwater discharges to Ox Brook, are generally separate storm sewer systems, while areas south of Route 1 are generally combined sewers or in the process of separation (City of Bridgeport, 2011). There are approximately 22 stormwater outfalls which discharge to Ox Brook, based on City outfall mapping (City of Bridgeport, 2021b). The City is in the process of developing comprehensive system mapping at this time.

The City's Department of Public Facilities has a *Storm Water Management Manual*, last revised in May 2019, which was developed to provide design standards in accordance with the City's Storm Water Management Regulations.

The City is also subject to CT DEEP's General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4s) (the current permit's effective dates are July 1, 2017-June 30, 2022). The City developed a Stormwater Management Plan (last updated February 2020), which defines the various Minimum Control Measures that the City will undertake for MS4 permit compliance.

Telecommunications

Telecommunications (land line telephone and cable/internet) are provided to city residents and businesses by multiple companies, including but not limited to Frontier, Optimum, Ooma, and Community Phone.

3.2.5.2 Impacts

The final design of the Project will review existing utility layouts and identify conflicts and utilities that will be affected by construction. The design will consider how to avoid, limit, or mitigate potential impacts to existing utilities and how to preserve services during the construction phase of the Project.

Water Supply

Impacts associated to the proposed Project are expected to be temporary, associated with culvert and pipe installation within street lines during construction. A limited temporary increase in water demand is also possible due to dust control and watering of newly planted or seeded areas following ground disturbance related to construction activities.

As Ox Brook lies topographically and hydrologically downgradient from the reservoirs and wells Aquarion uses for the city's water supply, the proposed Project would not impact the city's water supply or demand. In addition, the proposed Project would not have a water demand associated with its long-term function.

Wastewater

During the construction phase, there may be temporary impacts to the sanitary sewer lines due to in-street work associated with culvert and pipe replacements. No long-term impact to the city's sanitary sewer lines, pumping stations, or wastewater treatment plants are expected, as the Project does not involve the generation of additional sewage which would require treatment.

Stormwater

Since stormwater outfalls may outlet at or directly adjacent to stream channels or within street crossing culverts, it is anticipated that minor modifications will be needed to stormwater outfall locations along the Project Area in conjunction with construction. Outfall locations and characteristics will be confirmed as part of final design and needed modifications made, while ensuring the continued function of the system during construction. No large-scale changes to the piped stormwater systems contributing to Ox Brook are proposed as part of this work. The Elton Rogers Park and Svihra Park detention areas will provide for storage of stormwater runoff, reducing peak flows to the Ox Brook corridor which will help provide for additional channel capacity for stormwater runoff from streets during storm events in the brook.

The Project will not result in development or pavement of additional areas, with the types of development often associated with impervious cover changes, such as increased volumes and rates of runoff. Some surface treatments will differ along channel sections, which could include alterations in area of riprap channel or concrete channel. Final design will need to account for any such changes. The overall Project is meant to reduce flooding and improve channel capacity, both benefits in terms of stormwater management.

Typical construction practices have the potential to result in temporary areas of disturbed soil being exposed to rainfall and stormwater runoff. This can result in erosion and/or sediment transport, if not properly managed on a construction site, resulting in siltation and water quality impacts. Without proper controls, construction activities can also result in other pollutants contacting stormwater, such as:

- Oils and greases from fueling, maintenance, and storage of equipment;
- Construction debris and litter that may be tracked or blown offsite;
- Hazardous materials such as paints, preservatives, curing agents, and other fluids; and
- Fertilizer and pesticide runoff associated with site restoration activities.

The forthcoming mitigation section discusses measures which will be taken to reduce the potential for construction phase impacts related to stormwater.

Telecommunications

During construction, there could be minor temporary disruptions to telecommunications services in the event that utility poles need relocation or modification along the Project Area alignment, but no long-term impacts will be associated with the Project, as there will be no change in demand for telecommunications from the Proposed Action.

3.2.5.3 Mitigation

Utility coordination meetings with all affected parties will be held prior to construction in order to avoid potential conflicts or impacts. As discussed in the impacts section, the final design of all phases will consider how to avoid, limit, or mitigate impacts related to construction and how to address temporary service disruptions.

By law, any contractor or other party engaged in ground disturbance must determine the location of utilities that occur in the work area prior to the start of any excavation using mechanized or powered equipment. Connecticut state law requires that one contacts "Call Before You Dig" (CBYD) at 811 or 800-922-4455 at least 48 business hours prior to excavation. This is meant to address public utilities only and does not address private underground pipes and cables.

All underground utilities will be located and marked in the field prior to construction by the contractor in order to avoid accidental damage to utilities. Once utilities have been located, standard protocols will require that contractors working in areas that have the potential to disrupt utilities would need to protect, support, divert, or remove the system. If the construction work requires taking a utility out of service, a temporary or alternative system is installed until construction activities are completed in that area, with either the original system being reconnected and brought online, or an improved system being connected.

Stormwater

The Project overall will have a positive effect on capacity within Ox Brook, the receiving water for the area's stormwater runoff. The Project will be designed in accordance with all applicable local, state, and federal regulations relative to stormwater.

Temporary impacts to the stormwater system may occur during construction however, so controls are needed. The various phases of the Project will as a whole result in more than one acre of earth disturbance, and as such are subject to the CT DEEP *General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities*, also known as the Construction General Permit or CGP. Projects subject to this permit need to develop a Stormwater Pollution Control Plan (SWPCP) to cover the construction phase of the Project and need to file a registration with CT DEEP for coverage under the CGP. BMPs for construction and, if applicable, post-construction phase controls, would be required, as well as inspections, monitoring, and reporting. Construction phase stormwater erosion and sedimentation controls must be developed in accordance with the *Guidelines for Soil Erosion and Sediment Control* (the Guidelines), the *Stormwater Quality Manual*, and/or the Connecticut Department of Transportation *Qualified Products List*.

Each Project phase will require preparation of a SWPCP and registration with CT DEEP for CGP coverage. Erosion and sedimentation control measures will be incorporated into the design to reduce or avoid construction phase impacts to stormwater, including measures for spill prevention, standards for use of fertilizers and pesticides and hazardous materials, and erosion and sedimentation controls.

Water Supply

No disruption to public water service for a significant length of time would be allowed due to health and sanitation obligations. If a longer outage is necessary, temporary piping will be used to convey water around the construction area to maintain services. If additional water is required for dust control or watering of planted or seeded areas during the construction period, that supply can be trucked into the work areas, or drawn from non-drinking water sources meeting water quality criteria (Class B or better).

Wastewater

No disruption to sanitary sewer service for any significant length of time would be allowed due to health and sanitation obligations. Temporary piping and pump stations can be utilized to convey sewage around work areas during the construction period.

Telecommunications

No significant disruptions to service are anticipated, nor are changes in demand for telecommunications. As such, no specific mitigation is warranted.

3.2.6 Aesthetics/Viewsheds

3.2.6.1 Existing Conditions

Ox Brook flows through a densely settled, primarily residential area of Bridgeport. Its headwater is in Elton Rogers Park where a stone dam originally constructed in the 1800s formerly impounded a wooded wetland. Within the park, the views and aesthetics of Ox Brook are favorable as they are in a wooded, naturalized area. The dam is made of native, natural stone, and the woodland intact with wildlife value.

Downstream of Elton Rogers Park, Ox Brook is piped below ground for over 3,000 feet before briefly daylighting at Glendale Avenue. Where the brook returns to an open channel, it consists of hardened channels with either stone or concrete walls or riprapped slopes, as well as more naturalized sections. There are some sections where the brook appears to be a more "natural" stream channel with earthen banks, in areas where the channel is in residential back and side yard areas. In the areas where Ox Brook flows within an open channel, much of it is hidden from public view because it flows through the back yards of private homes or is screened by thick vegetation. Where the brook becomes visible to the public is primarily at street crossings on either end of a culvert. At these points, debris is often evident (tires, carts, garbage) and invasive plant vegetation (Japanese knotweed) is seen densely established along its bank in many locations. **Photo 3-1 and Photo 3-2** show current conditions along various sections of the brook.



Photo 3-1. Photo of Open Channel Section Without Concrete Walls at Burnsford Avenue



Photo 3-2. Existing Open Channel Section with Vertical Concrete/Masonry Walls at Arlington Street

Photo 3-1 shows a more naturalized open channel cross section without channelized or riprap sidewalls, located downstream of Burnsford Avenue (photo taken facing southwest). This view shows significant erosion along the channel, as well as woody and other debris along the banks.

Photo 3-2 shows an existing concrete/masonry vertical-walled channel section at Arlington Street and is taken facing upstream (facing northwest). The photo shows the proximity of existing development (fencing, driveway, garage structure, and parking lot) to the channel and is consistent with observations in other highly developed reaches of the corridor.

3.2.6.2 Impacts

During construction, there will be a temporary negative impact to aesthetics due to vegetation clearing and the presence of construction activities. Construction phase visual impacts would occur via the removal of vegetation associated with land clearing for bank excavation and regrading along slopes, but it is expected that vegetation would infill over time or be part of landscaping plans associated with final design of the individual Project phases.

In the long-term, the Proposed Action will alter the views of Ox Brook by either widening the existing open stream channel with a trapezoidal riprap channel or by reconstructing vertical walled concrete channels. Views of the brook will be increased by the widening the brook channel and the needed removal of vegetation during construction. Many portions of the brook which are currently not visible due to dense tree, shrub and vine growth will become visible from the yards of residences and commercial properties as a result of the Project. Needed vegetation removal may also result in increased views between adjacent homes and properties along the corridor until vegetation regrows or is replanted.

Where the new concrete channels are proposed along the brook, the old deteriorating vertical walls built of various materials (stone, concrete) will be removed and new cement concrete walls will be constructed, a positive aesthetic impact. Where modifications to other existing channel sections are proposed, the improvements will address erosion and deterioration along the banks, as well as manmade debris that has accumulated over the years or been placed by homeowners

in efforts to reduce flooding impacts on their properties. These are also anticipated to be positive impacts for aesthetics for those abutting the brook.

The detention areas at both Elton Rogers Park and Svihra Park will result in areas that are primarily already wet being more inundated and in additional excavation, changing the aesthetics of those areas, although they will remain natural looking in nature beyond the berm or dam construction and will remain in a park-like setting. The areas affected are most likely not used actively now due to their wet nature. They will remain in vegetated, undeveloped areas.

3.2.6.3 Mitigation

The Proposed Action offers overall positive impacts to the aesthetics of the brook and its surrounding properties. While there will be a temporary loss of vegetation along the banks of the brook associated with construction activities, this will be mitigated by planting vegetation along the banks that is appropriate for the soil, water flow and aesthetic needs of each particular segment.

3.2.7 Solid Waste and Recycling

3.2.7.1 Existing Conditions

Solid waste and recycling materials are currently generated by residences and businesses within the Project Area. According to information provided by staff from the City of Bridgeport's Engineering Department and Public Facilities (personal communications with J. Urquidi and D. Valdegas (October 8 and 9, 2021)), the City is responsible for residential trash and recycling pickup. Trash is picked up weekly and transported directly to WIN Bridgeport Resco, which is located in the city. Trash from the City's transfer station at 475 Asylum Street is also brought to the same facility. Recycling is collected bi-weekly and taken to Oak Ridge Waste and Recycling in Shelton, Connecticut. Tires collected are brought to Don Stevens Tire in Southington, Connecticut, while metal is taken to Sims Metal Management in North Haven, Connecticut. Cardboard is transported to Oak Ridge Waste and Recycling, while brush and leaves are brought to the City's recycling center at Seaside Park.

For other entities (commercial, institutional, industrial, etc.), solid waste and recycling is collected onsite in dumpsters and receptacles for collection and transport by licensed private waste haulers to licensed disposal facilities.

3.2.7.2 Impacts

The Project will not result in long-term impacts to the generation or disposal of municipal solid waste or recycling associated with residences or businesses in Bridgeport. Expected short-term impacts include the generation of construction waste associated with the implementation of the Project (waste materials from culvert/piped section replacements, open channel modifications, and debris associated with demolition required for the Project). The potential for encountering hazardous waste associated with demolition is discussed in the "Pesticides, Toxic or Hazardous Materials" section.

As with the current system, periodic maintenance will be needed to remove accumulated trash, debris, and vegetated materials from the system and disposed of properly.

3.2.7.3 Mitigation

Construction waste will be properly managed and disposed of by the Project contractor(s) to prevent the release of waste materials to the environment, including the use of covered containers for waste material storage and removal. All waste will be disposed of offsite in accordance with all local, state, and federal requirements, as applicable.

3.2.8 Cultural Resources

The Connecticut Environmental Protection Act requires that state-funded or assisted projects evaluate their effects on historic properties, which include archaeological sites and historic districts as well as individual buildings, structures (such as bridges), and objects. Historic properties also include places of traditional cultural or religious importance to Native American tribes and other groups. Historic properties are defined as those listed in or eligible for listing in the State and/or National Registers of Historic Places (S/NRHP).

This section addresses archaeological (subsurface) and above-ground historic resources.

Area of Potential Effects

The study area for identifying and evaluating potential impacts to historic and archaeological resources is the Area of Potential Effects (APE), which is presented in Figures 1 and 2 of the report *Phase IA Archaeological Assessment Survey/Historic Resources Survey, Ox Brook Flood Control Master Plan* prepared by Archaeological and Historical Services, Inc. (AHS) (2021) (**Appendix D**).

Archaeological and Above-Ground Historic Properties Surveys

The surveys conducted by AHS in the Fall of 2021 to identify and evaluate archaeological and above-ground historic properties are described in *Phase IA Archaeological Assessment Survey/Historic Resources Survey, Ox Brook Flood Control Master Plan* (**Appendix D**). The report also contains a discussion of the survey methodology and evaluation criteria.

3.2.8.1 Existing Conditions

Archaeological Resources

No recorded archaeological sites are within the APE. Also, the archaeological assessment survey identified no areas of archaeological sensitivity within the APE. The entire APE is highly developed and landscaped, which has destroyed any pre-colonial Native Americans or historic period sites that may have once been present. Even in Elton Rogers Park, the APE portions are heavily cut, landscaped and quarried, leaving no intact soils in which subsurface sites could have survived.

Above-Ground Historic Resources

No properties in the APE were assessed as State or National Register-eligible, with one exception: the Ox Stream Reservoir/Bridgeport Hydraulic Company Dam in Elton Rogers Park.

The dam was constructed by 1872 as part of the Island Brook Supply System, which ultimately included the Ox Stream, Horse Tavern, and Island Brook Reservoirs. The dam is not only a locally significant example of water system engineering, but also, with the other dams in the Island Brook Supply system, it helped Bridgeport to continue its rapid expansion during the end of the 19th and the beginning of the 20th centuries by providing both drinking water and water for fire-fighting. Although the dam is somewhat overgrown and no longer functional, it retains significant integrity of location, setting, materials, workmanship, feeling, and association to demonstrate its role as a dam. While the dam appears to retain sufficient integrity and significance for the SRHP, without clear connections to the other dams in the system, it lacks sufficient significance to be recommended as potentially eligible to the NRHP.

Two hundred thirty-nine (239) buildings more than 45 years old, mostly single-family houses, were evaluated. Most date to the 20th century and were assessed as ineligible because of diminished integrity of design, materials, and/or setting or because of limited historical significance.

3.2.8.2 Impacts

Archaeological Resources

There are no archaeological resources or areas of archaeological sensitivity in the APE that will be impacted by the Project as currently proposed. In Elton Rogers Park, visible quarrying evidence may be associated with construction of the Ox Stream Reservoir/Bridgeport Hydraulic Company Dam, but the quarrying evidence is not itself a SRHP- or NRHP-eligible resource.

Above-Ground Historic Resources

As the proposed work will replace existing culverts, modify open channel stream sections, or be buried underground, there will be no effects on historic resources within the APE with the exception of the dam, which is proposed for rehabilitation. The dam is potentially eligible for SRHP listing; therefore, the Project has potential to impact this historic resource due to the proposed rehabilitation which includes flattening the slopes to 2.5 H to 1 V, installation of impermeable material, and installation of riprap, in order to bring the dam up to current dam safety and design standards. This will physically and visually alter the dam.

3.2.8.3 Mitigation

There is only one potential impact to historical resources: the rehabilitation of the dam. Possible impact mitigation measures include state-level (SHPO-level) photographic documentation and signage in Elton Rogers Park about the dam's history of water supply for the city of Bridgeport. Mitigation of impacts would be addressed in a Memorandum of Agreement between the City of Bridgeport, the SHPO, and CT DEEP.

3.2.9 Pesticides, Toxic or Hazardous Materials

3.2.9.1 Existing Conditions

A preliminary assessment was undertaken within the Project corridor to determine the potential for encountering hazardous materials or contaminated sites during the construction of the Proposed Action. The following summarizes the investigation's objectives:

- To identify, where possible at the planning level, the relative risk of exposure of construction and regulatory personnel to toxic and/or hazardous materials during implementation of Proposed Action;
- To identify conceptually the potential environmental liability associated with property easements or acquisition; and
- To potentially avoid additional costs associated with redesign, remediation, permitting or planning delays, should contaminated sites be encountered during construction or improvement activity.

The assessment was based upon a review of environmental database results within a 1/8-mile buffer area around the Project Area. The database review was augmented by desktop surveys in order to screen for the presence of land use typically associated with a high risk of uncontrolled or unregulated loss, seepage, or other release of hazardous or otherwise regulated materials for sites that may not have reported releases to date.

A review of state and federal environmental regulatory agency records was conducted within the Project Area with buffer by Environmental Data Resources, Inc. (EDR). This record review included a search of the following federal regulatory databases (with definitions as provided by EDR, with limited modifications to identify abbreviations, etc.):

- National Priority List (NPL, Superfund): The NPL is a subset of the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) and identifies over 1,200 sites for priority cleanup under the Superfund Program.
- Superfund Enterprise Management System (SEMS): This database tracks hazardous and potentially hazardous waste sites and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The SEMS-ARCHIVE list, which was formerly known as the CERCLIS-NFRAP and renamed to SEMS ARCHIVE by the EPA in 2015, was also searched.
- Environmental Response Notification System (ERNS): This database records and stores information on reported releases of oil and hazardous substances.
- Resource, Conservation, and Recovery Act (RCRA): RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by RCRA. Non-Generators do not presently generate hazardous waste. The RCRA Corrective Action Report (CORRACTS) and Treatment Storage and Disposal Facilities (TSDF) lists were also included in the database search.
- Listings from the Enforcement and Compliance History Online (ECHO) database provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.
- A list of potential drycleaners, and potential historical gas/service stations in EDR's Exclusive Historical Cleaner (HIST CLEANERS) and Historical Auto Stations (HIST AUTO) databases.
- FTTS: FIFRA/ TSCA Tracking System – FIFRA ((Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act): this database tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). The HIST FTTS database was also searched.

The following state databases were searched by EDR:

- Inventory of State hazardous waste sites (SHWS) or suspected hazardous waste sites listed in the Site Discovery and Assessment Database (SDADB) and/or the Contaminated or Potentially Contaminated Sites (CPCS) database;
- Connecticut Property Transfer Act Filings;
- Records of CT DEEP-registered underground storage tank (UST) sites;
- Records of CT DEEP-registered leaking underground storage tank (LUST) and Recovered Government Archive (RGA) LUST sites;
- Connecticut Enforcement Case Listing (CT ENF)
- A listing of solid waste facilities and landfill sites (SWF/LF) on file with CT DEEP;
- Records from CT DEEP's Significant Environmental Hazards (SEH), Underground Injection Control (UIC) and Drycleaner Facilities (DRYCLEANERS) databases; and
- Records of oil or chemical spills reported to the CT DEEP (SPILLS database).

The table provided in **Appendix E** presents a consolidated summary of EDR's database search results, and search results within the 1/8 mile buffer of the Project Area are depicted on **Figure 3-7**.

It is important to note that in many cases, a property listed in one database may also be listed in another database, with the same root cause (*i.e.*, a property may be listed in the SPILLS database and the LUST database for the same release of oil or hazardous material). It is likewise important to note that although some databases may indicate the storage or generation of an oil or hazardous material at a given property (as with the UST and RCRA Generator databases), this in itself does not necessarily indicate that a release of these materials has occurred to the environment. For this reason, it is GZA's opinion that records indicative of a higher risk of impact to the subject Project Area would be those where contamination was or is known to be present, or where contamination is suspected.

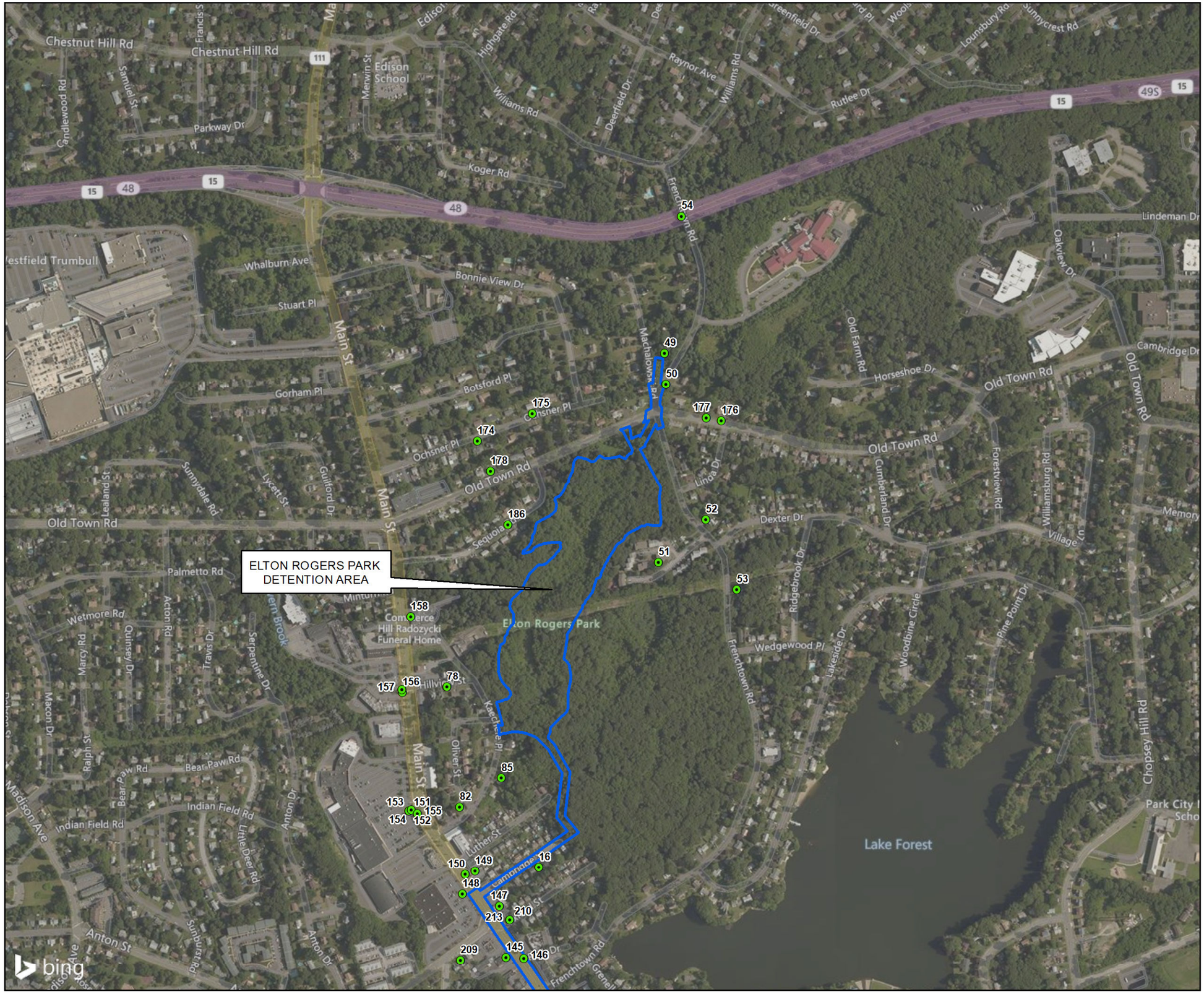
Generally, this would include the NPL, SEMS, SEMS-ARCHIVE, ERNS, LUST, SHWS, SDADB, CPCS, SEH, and SPILLS listings, although other databases can also be used as general indicators for the potential for contamination to be present. Additionally, some properties may have achieved regulatory closure with respect to identified releases, though residual contamination may still be present and require special handling and management procedures in accordance with state or federal regulations. Please note: it is beyond the scope of this EIE and this assessment to perform a detailed review of each property identified by EDR.

A general summary of database findings and a discussion of these findings follows. When later phases of the Proposed Action are fully designed and detailed limits of work and any property impacts are more specifically addressed, more specific due diligence related to the potential for onsite contamination will be needed, beyond this planning level exercise.

- None of the database records returned by EDR were mapped within the approximate boundaries of either Elton Rogers Park or Svihra Park, including the private property adjacent to Svihra Park.
- EDR did not return records from the NPL, Delisted NPL, SEMS, SEMS Archive, RCRA CORRACTS, RCRA TSDF, SHWS or SWF/LF databases from within the Project Area or within a 1/8-mile buffer of the estimated Project Area[1].
- Within the estimated Project Area, EDR returned records from the following databases: 3 records from LUST (and 4 within RGA LUST), 2 records from UST, 37 records from SPILLS, 2 records ECHO; 2 records from CPCS, 1 record from DRYCLEANERS, 1 record from CT ENF), 2 records from HIST AUTO, and 1 record from HIST CLEANER.

Within 1/8-mile of the estimated Project boundaries, EDR returned records from the following databases: 9 records from RCRA Generators, 1 record from ERNS, 8 records from SDADB, 19 records from LUST (and 4 within RGA LUST), 19 records from UST, 190 records from SPILLS, 2 records from FTTS (and 2 records from HIST FTTS), 17 records ECHO; 18 records from CPCS, 1 record from DRYCLEANERS, 14 records from ENF, 1 record from SEH, 1 record from UIC, 18 records from HIST AUTO, and 8 record from HIST CLEANER.

[1] These databases likewise did not contain records for properties within a ½-mile buffer of the estimated Project Area. Due to the length of the Project Area and the amount of records returned for some databases, GZA focused its database review on a 1/8-mile buffer area for standard due diligence practices.



LEGEND

- Project Area
- Current of Former Areas of Concern

N

NOTES:

1. BASE MAP SOURCE: BING 2020-2021 IMAGERY.

2. ENVIRONMENTAL CONCERNS DATA ACQUIRED FROM ENVIRONMENTAL DATA RESOURCES, INC.

600 300 0 600 Feet

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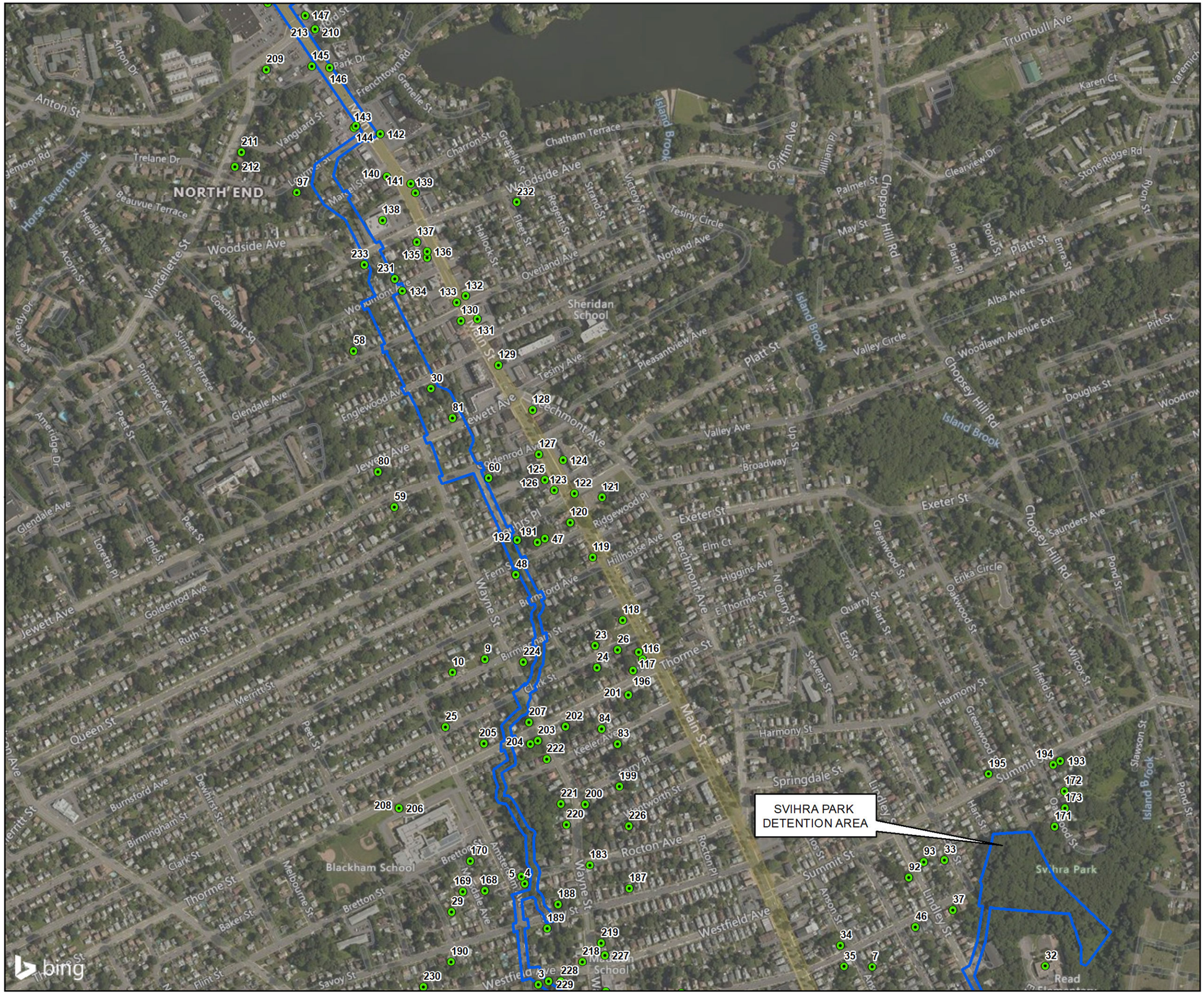
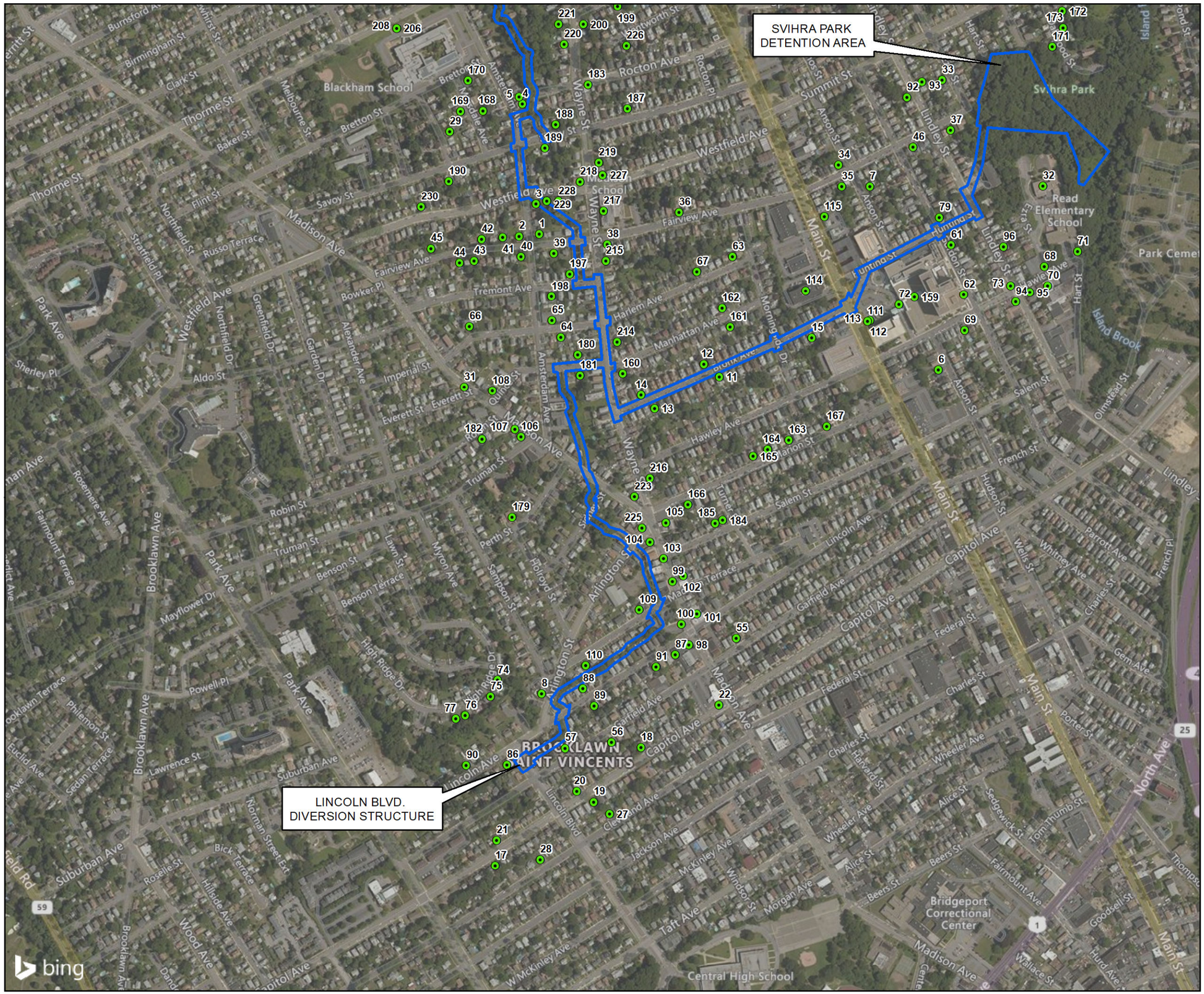
OX BROOK FLOOD CONTROL MASTER PLAN EIE
BRIDGEPORT, CT

CURRENT OR FORMER AREAS OF POTENTIAL ENVIRONMENTAL CONCERN

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: CITY OF BRIDGEPORT BRIDGEPORT, CT	
PROJ MGR: JRB	REVIEWED BY: TEJ	CHECKED BY: SLL	FIGURE 3-7
DESIGNED BY: JRC	DRAWN BY: JRC	SCALE: 1 in = 600 ft	
DATE: FEBRUARY 2022	PROJECT NO: 15.0166920.00	REVISION NO:	SHEET NO: 1 OF 3


NORTH END
Sheridan School
Blackham School
Read
Svihra Park
SVIHRA PARK DETENTION AREA
Main St
Thorme St
Westfield Ave
Woodside Ave
Platt St
Springdale St
Harmony St
Broadway
Valley Ave
Valley Circle
Exeter St
Chatham Terrace
Tesiny Circle
Norland Ave
Overland Ave
Pleasantview Ave
Woodlawn Avenue Ext
Alba Ave
Roctron Ave
Trumbull Ave
Anton St
Woodside Ave
Glendale Ave
Jewett Ave
Goldenrod Ave
Ruth St
Queen St
Burnsford Ave
Birmingham St
Clark St
Bretton St
Baker St
Savoy St
Flint St
Beauvue Terrace
Trelane Dr
Vincellette St
Coachlight Sq
Sunrise Terrace
Primrose Ave
Peet St
Ameridge Dr
Kenneth Dr
Acorn St
Herald Ave
Horse Tavern Brook
Island Brook
Chopsey Hill Rd
Griffin Ave
Palmer St
May St
Platt Pl
Pond St
Emma St
Clearview Dr
Stone Ridge Rd
Karen Ct
Trumbull Ave
Saunders Ave
Pitt St
Douglas St
Woodrow
Exeter St
Elm Ct
Higgins Ave
Greenwood St
Oakwood St
Erika Circle
Ezra St
Hart St
Quarry St
N Quarry St
E Thorme St
Stevens St
Infield St
Wilcox St
Harmony St
Springdale St
Summit St
Lindley St
Island Brook
Pond St
Slawson St
Ridgewood Pl
Hillhouse Ave
Beechmont Ave
Wayne St
Fern St
Merritt St
Dewhirst St
Melbourne St
Amsterdam Ave
Englewood Ave
Goldenrod Ave
Loretta Pl
Enid St
Peet St
Jewett Ave
Glendale Ave
Primrose Ave
Sunrise Terrace
Coachlight Sq
Vincellette St
Acorn St
Herald Ave
Beauvue Terrace
Horse Tavern Brook
Trelane Dr
Anton St
Anton Dr
Park Dr
Frenchtown Rd
Grenelle St
Vanguard St
Charron St
Fleet St
Regent St
Strand St
Victory St
Hallock St
Island Brook
Griffin Ave
William Pl
Chopsey Hill Rd
Clearview Dr
Stone Ridge Rd
Ron St
Pond St
Platt St
Emma St
Platt Pl
May St
Palmer St
Alba Ave
Woodlawn Avenue Ext
Pitt St
Douglas St
Woodrow
Trumbull Ave
Karen Ct
Yaremich
Saunders Ave
Exeter St
Broadway
Valley Ave
Valley Circle
Pleasantview Ave
Tesiny Ave
Tesiny Circle
Norland Ave
Overland Ave
Woodside Ave
Chatham Terrace
Charron St
Grenelle St
Frenchtown Rd
Park Dr
Anton Dr
Anton St
Trelane Dr
Beauvue Terrace
Horse Tavern Brook
Herald Ave
Acorn St
Vincellette St
Coachlight Sq
Sunrise Terrace
Primrose Ave
Peet St
Ameridge Dr
Kenneth Dr
Glendale Ave
Jewett Ave
Goldenrod Ave
Ruth St
Queen St
Burnsford Ave
Birmingham St
Clark St
Bretton St
Baker St
Thorme St
Savoy St
Flint St
Westfield Ave
Broadway
Exeter St
Springdale St
Harmony St
Summit St
Lindley St
Island Brook
Pond St
Slawson St
Ridgewood Pl
Hillhouse Ave
Beechmont Ave
Wayne St
Fern St
Merritt St
Dewhirst St
Melbourne St
Amsterdam Ave
Englewood


SVIHRA PARK
DETENTION AREA
LINCOLN BLVD.
DIVERSION STRUCTURE
Blackham School
Read Elementary School
Svihra Park
Park Cemetery
Bridgeport Correctional Center
Central High School
BROOKLAWN SAINT VINCENTS
Thorme St
Clark St
Bretton St
Baker St
Flint St
Savoy St
Madison Ave
Russo Terrace
Fairview Ave
Tremont Ave
Bowker Pl
Harlem Ave
Manhattan Ave
Westfield Ave
Rocton Ave
Wayne St
Summit St
Lindley St
Main St
Anson St
Hart St
Hawley Ave
Salem St
Island Brook
Park Ave
Northfield St
Stratfield Pl
Sherley Pl
Aldo St
Greenfield Dr
Garden Dr
Alexander Ave
Imperial St
Everett St
Amsterdam Ave
Quincy St
Marion Ave
Truman St
Robin St
Rosemere Ave
Fairmount Terrace
Brooklawn Ave
Benson St
Benson Terrace
Myron Ave
Perth St
Sampson St
Holroyd St
Arlington St
Mayflower Dr
Powell Pl
High Ridge Dr
Philemon St
Sedan Terrace
Euclid Ave
Lawrence St
Suburban Ave
Lincoln Ave
Lincoln Blvd
Norman Street Ext
Bick Terrace
Roselle St
Hillside Ave
Wood Ave
Brooklawn Terrace
Mountain Terrace
Garfield Ave
Capitol Ave
Federal St
Charles St
Wheeler Ave
Harvard St
Alice St
Sedgewick St
Tom Thumb St
Beers St
Fairmount Ave
Goodsell St
Hurd Ave
Wallace St
Madison Ave
Taft Ave
Morgan Ave
Windsor St
McKinley Ave
Jackson Ave
Cleveland Ave
W McKinley Ave
Lincoln Ave
Whitney Ave
Parrott Ave
French Pl
Gem Ave
Porter St
North Ave
Lincoln Blvd
Hudson St
Wells St
Charles St
Olmstead St
Island Brook
Hart St
Lindley St
Anson St
Summit St
Hawley Ave
Salem St
French St
Lincoln Ave
Capitol Ave
Main St
Wayne St
Westfield Ave
Rocton Ave
Fairview Ave
Bowker Pl
Tremont Ave
Harlem Ave
Manhattan Ave
Morningside Dr
Huntington St
Lindley St
Anson St
Hart St
Hawley Ave
Island Brook
Olmstead St

3.2.9.2 Impacts

Short-term impacts apply to the construction period and include the potential for increased construction costs or lengthened construction schedules should contaminated materials be encountered within the Project Area. Short-term impacts are more likely than long-term impacts and could be possible for certain properties located within the approximate Project Area that were identified in higher-risk records returned by EDR, including (but not limited to) the following:

- 4005-4007, 4316, and 4402 Main Street, which all appeared in the LUST database. The 4005-4007 Main Street property has a "completed" LUST status, while the record for 4316 Main Street is listed as "pending", though the "incident date" for the record is listed as February 8, 1993. The 4005-4007 and 4316 Main Street properties also appeared in the CPCS databases.
- Other properties along Main Street which appeared in databases indicating the potential for contamination related to historic use of the properties as either a drycleaner (Colonial Cleaners), or auto service station (Exxon Co USA No. 31660/Ligouris Service Center/Brake Centers of America and Service Rite Shell No. 136286)

As noted above, EDR returned 37 SPILLS records from within the approximate Project area (including some along Main Street). The majority of these records have a "Facility Status" of "Closed", though GZA notes that spill records may often represent only the initial spill response and may not document subsequent cleanup efforts (where warranted or required). Alternatively, they may also represent historic releases of oil or hazardous material which have been adequately addressed from a regulatory perspective. As shown in the summary table in **Appendix E**, there are SPILLS records for multiple properties, which do not have a closed SPILLS status and which do not appear in other databases. With the exception of one of these records, these releases would not be expected to pose a significant concern, based on the age of the releases (ranging between 21 and 29 years old), the material or quantity of material released, or a combination of these factors. A record from the property at 514 Lincoln Avenue indicates 30 gallons of No. 2 Fuel Oil was released from an aboveground storage tank in 2020. No other pertinent information regarding cleanup is provided in the record. Therefore, this property may pose a more significant risk to the Project Area than the other unresolved SPILL records.

As shown in the summary table in **Appendix E**, the majority of records returned from outside of the approximate Project Area (but within the 1/8-mile buffer) were from the SPILLS database and were distributed across numerous streets, as summarized below:

- Of the LUST records within the buffer area, two properties on Main Street (2800 and 3691 Main), one property on Lindley Avenue and one property on Marion Street have LUST statuses of either "cleanup initiated" or "pending".
- There are 13 LUST records with a "completed" status.
- Of the SDADB records in the buffer area, 5 were reported independent of the LUST database and 4 were these were located on Main Street. Three of the Main Street records indicate possible historical property use either as an auto service station (Engborg Burgar M Jr/All Car Service & Repair Corp/ Valvoline Instant Oil Change and Cumberland Gulf No. 60914 /Cumberland Farms Inc.) or drycleaner (Clean-o-Rama/Brookside Drycleaners. Inc.). The remaining SDADB record was for a property (listed as multiple parcels – 505, 594 and 645) Sylvan Street. The "Clean-o-Rama" property is also listed in the CPCS database for two addresses; 4531-4575 Main Street and 4533 Main Street.
- Within the buffer area, one Underground Injection Control (UIC) record was returned for a property at 3956 Main Street, related to a 2011 permit issued for the application of remedial additives to address residual contamination.

- One ERNS record was returned for a property at 4 Everett Street, for an overfilling of a basement home heating oil tank in 2010.

In summary, the potential to encounter known, suspected, or residual contamination exists within the approximate Project Area and surrounding buffer, due to its urbanized history. In addition, urban fill materials may be present within the Project Area, although the park areas of Elton Rogers Park and Svihra Park have a lower potential for contamination, due to their undeveloped nature and lack of documented releases or issues in those areas. The property adjacent to Svihra Park proposed for the detention area does not have any documented releases identified, but based on views of the property from City property and adjacent streets, the land appears to be altered, with evidence of past fill. As part of the purchase of that property, past uses and potential contamination should be assessed. Potentially contaminated materials encountered during construction would be subject to regulation under the CT DEEP's Remediation Standard Regulations (RSRs). This typically would require removing the contamination source, excavating contaminated materials, securing stockpiles of potentially contaminated material, testing and characterizing the material, and properly disposing of the materials. At some locations, stockpiling of contaminated materials may pose a logistical problem as space may be limited. Should excavation and stockpiling of contaminated materials be required, the materials would likely be transported to an off-site stockpile area (in accordance with a material management plan), adding additional cost to the Project.

In areas where the groundwater table is expected to be close to the ground surface, temporary drawdown of the water table may be required during excavation. Groundwater extracted in areas of contamination would require treatment and discharge under a CT DEEP wastewater discharge permit. Should excavation prove to be infeasible (e.g., due to existence of structures, depth of contamination plume, etc.) an alternative method of remediation would be required which could add substantial time and cost constraints to the project. Contractors bidding on construction or demolition work would need to have the capacity to respond to any unforeseen and previously unencountered or unknown media impacted by regulated constituents. A materials management plan would need to be prepared to provide guidance on how to manage media impacted by constituents of environmental concern.

In general, portions of the Project requiring demolition of older structures or excavation in proximity to areas of known or suspected contamination or requiring excavation of urban soils would present the greatest risk of encountering hazardous or contaminated material during implementation of flood control measures. The potential sites proximal to the Project Area identified as having current or former environmental concerns are summarized in the table provided in **Appendix E**.

Long-term impacts are those impacts whose effects are measurable beyond the construction period. An example of this type of impact would be encountering previously undiscovered areas of buried wastes and/or contamination on City property or in areas where construction easements or acquisitions are associated with the Project. Such a discovery could be longer term in nature due to the fact that assignment of a responsible party, assessment, and cleanup activities can sometimes last years, depending on the nature of the release and because the activities would be initiated after the start of the Project.

3.2.9.3 Mitigation

Potential impacts from and to hazardous materials sites would be mitigated via the use of engineering controls and managed via work plans approved by the CT DEEP Waste Management Division. All hazardous materials encountered as part of the work will be handled, removed from the Project Area, and disposed of in accordance with all applicable local, state, and federal regulations. Proper notifications will be made to the applicable agencies if any such materials are encountered during the work and work stopped until proper precautions can be taken to address the materials.

Any property acquisitions proposed during the future detailed design of individual phases, including the private parcel adjacent to Svihra Park, would be subject to further environmental investigations using a phased, progressively more

detailed approach as required by the Innocent Land Owners Defense established under CERCLA. These investigations typically include one or more of the following depending upon the results of each progressive study:

- Phase I Environmental Site Assessment;
- Phase II Environmental Site Assessment - Subsurface Investigation;
- Phase III Remedial Investigation/Feasibility Study;
- Supplemental environmental investigations such as inspections of buildings and structures to determine presence of lead paint, asbestos, polychlorinated biphenyls, mercury switches and components, and other hazardous building components;
- Pre-demolition inspections to determine hazardous building component quantities; and
- Building demolitions.

Other specialized studies or follow up investigations are typically warranted for complex sites. Through analyses of the properties in question in this progressive manner, data is collected on the presence/absence of contamination, the extent of contamination, the identity of the constituents, and the options available for abatement or remediation are assessed and explored. Soils impacted by chemical constituents that may be encountered during construction activities would be brought to secure stockpiled areas to be temporarily stored pending chemical constituent sampling and analysis. Such temporary stockpiles would typically be formed by concrete block and lined with HDPE. At the stockpile, accumulated soils would be sampled for disposal characterization to meet the permit requirements of potential off-site facilities.

A competent Environmental Professional (EP) defined as a Certified Hazardous Materials Manager (CHMM), a Licensed Environmental Professional (LEP) or combination thereof is appointed responsible for the proper management and disposal of impacted excavated material in accordance with all applicable laws. The EP is responsible for making decisions about segregation of materials into discrete stockpiles based upon visual and olfactory evidence and/or proposed receiving facility criteria. In the event that materials are encountered that are visually contaminated, the EP takes additional steps as appropriate for requisite management (*e.g.*, any required regulatory notification, containment measures, and sampling requirements). The EP would also manage materials in areas where environmental land use restrictions may be in place due to known contamination.

3.2.10 Energy (Use and Conservation)

3.2.10.1 Existing Conditions

Electricity in the Project Area is provided by United Illuminating via overhead distribution lines. Natural gas service in the Project Area is provided by Southern Connecticut Gas (SCG), an AVANGRID Company, which serves approximately 206,000 customers (a population of approximately 838,506) in the greater New Haven and Bridgeport areas in the southern portion of the state with approximately 2,500 miles of natural gas distribution pipelines (SCG, 2021). In addition, some residences and businesses may heat their homes or facilities using heating oil-fired boilers/furnaces.

3.2.10.2 Impacts

Energy usage will be required during construction, but no long-term increases or changes in energy usage will result from the Proposed Action once construction is completed, based on the nature of the Project.

3.2.10.3 Mitigation

The Proposed Action is not expected to result in increases in energy usage. Therefore, no mitigation is warranted.

3.3 SOCIOECONOMIC RESOURCES

3.3.1 Public Health and Safety

3.3.1.1 Existing Conditions

The City of Bridgeport's public health and safety needs are served by the City's Police Department, Fire Department, and the Office of Emergency Management and Homeland Security/Local Emergency Planning Committee (OEMHS/LEPC), as well as local Emergency Medical Technicians (EMTs). All information in this section has been provided by the City's OEMHS/LEPC Director, unless otherwise noted.

The existing flooding along Ox Brook is currently a threat to public health and safety. Individuals may be susceptible to drowning due to flooded properties or vehicles driving through flooded streets. The flooding of buildings can also leave behind contaminants or result in sewage releases, leaving environmental risks for property owners and residents. The water inundation can also result in mold, another health risk. During flooding events, some roads are impassible, resulting in delays for responding emergency personnel, another risk.

Fire Department

The City of Bridgeport's Fire Department consists of approximately 300 firefighters who typically work 24-hour shifts, with 66 active at any one time. There are eight firehouses that cover the entire city. Engine 12 and Engine 16 cover the Ox Brook area of the city and would be the ones to respond to a flooding event along Ox Brook. Engine 12 is located at 265 Beechmont Avenue and Engine 16 is located at 3115 Madison Avenue, both in the North End neighborhoods of the city. The Fire Department is the designated first responder to flood calls, but the Police Department will respond to assist with road closures, and the City's ESU and SCUBA teams assist with water rescues. Specialized response equipment includes flat bottomed boats, military vehicles, and Zodiac-type watercraft. During flood response calls, the Fire Department typically assists with rescues and evacuations. There are no reported issues with fire stations flooding in the Ox Brook area.

Police Department

The City's Police Department consists of 301 police officers who typically work three 8-hour shifts, with an average of 40-60 officers per shift. The city is divided into the Central, East, and West Police Districts. There is a single police headquarters building located at 300 Congress Street downtown, but there are multiple police division buildings scattered throughout the city. During flood events, the Police Department is typically called upon to assist with water rescues and road closures. They have specialized equipment, including a SCUBA unit, flat bottomed boats, BearCat and MRAP military vehicles, and marine unit boats if there is coastal flooding.

Emergency Medical Services (EMS)

AMR is the EMS provider for the City of Bridgeport. The closest medical facility to the Ox Brook area is the St. Vincent's Medical Center, located at 2800 Main Street. St. Vincent's is a Catholic hospital which is part of Hartford HealthCare. According to information available online from the hospital, St. Vincent's has a 60-bed emergency room, including specialized trauma and critical care suites, a fast track area, dedicated OB/GYN rooms, a pediatric area, and behavioral health areas. The hospital provides both inpatient and outpatient services. Bridgeport Hospital is also located nearby at 267 Grant Street and is affiliated with Yale New Haven Health. This hospital also provides emergency services and is Connecticut's only burn center.

Office of Emergency Management and Homeland Security/Local Emergency Planning Committee

The City of Bridgeport's OEMHS/LEPC has 57 staff members, with responsibilities for overall emergency coordination, emergency planning and incident command support for the City. The OEMHS responds to events such as natural hazards (hurricanes, thunderstorms, tornadoes, winter storms, floods, extreme heat/cold etc.), man-made hazards (civil disorder, strikes, terrorism, chemical releases), transportation accidents, utility failures, environmental hazards (toxic releases/spills, etc.), epidemics/pandemics, and war-related incidents. The OEMHS also updates the City's emergency operations plans, trains emergency personnel, and warns and informs the public regarding emergencies and disasters on various platforms. The City has an Emergency Communications Center (911) with 12 dedicated lines and maintains the Bridgeport Emergency Operations Center (EOC) as needed. Residents can register for the City's Citizen Alert System to be notified of weather and emergency alerts. The OEMHS also has a public education program, Ready Bridgeport, which allows residents to learn about potential hazards in the city and how to prepare for them.

3.3.1.2 Impacts

In the long-term, implementation of the Proposed Action will result in reduced flooding impacts within the Ox Brook area. This reduction in the frequency and severity of flooding events would be anticipated to result in a reduced need for emergency services response to flooding events to address road closures, detours, evacuations, and rescues, all of which will be positive impacts.

The reduction in flooding occurrences and severity will also lessen hazards for drowning and environmental contaminants from floodwaters and mold resulting from remaining moisture in structures. Keeping roads open during storm events will also allow for faster response times, all positive impacts.

During construction of the various phases, there will be temporary needs for short-term roadway closures or traffic detours associated with construction of the various improvements, which may result in temporary additional demand for police details in the area.

3.3.1.3 Mitigation

Since long-term impacts are all positive, no specific mitigation is needed. However, there would be short-term impacts during construction, as discussed above. For each of the phases, a detailed Maintenance and Protection of Traffic Plan will be developed by the designer or contractor(s) to ensure that the flow of traffic can be maintained with minimal disruptions to travel. These plans will be coordinated with city and state officials, as appropriate.

Traffic coordination meetings will be held with all affected parties prior to any construction, closures, or detours being established. These meetings are necessary to brief emergency personnel (Police, Fire, Ambulance, OEMHS, schools, hospitals, and other critical assets). Residential traffic coordination can be addressed by door to door notices, local announcements, newspaper and local news announcements, and notices on the City's website.

The Traffic Plan will include information relative to the use of police, barriers, temporary signals, and signage, among other methods, to help coordinate traffic flow around work areas. Because the network of streets is dense in the Project Area, detours and diversions will be short, resulting in only limited increases in travel time.

3.3.2 Land Use/Neighborhoods/Recreational Resources

3.3.2.1 Existing Conditions

Land Use/Neighborhoods

Bridgeport is Connecticut's largest city and is the most densely populated municipality in the state, with approximately 9,020 people per square mile per the 2010 Census, denser than the capital city of Hartford. The Project Area is located in the North End and Brooklawn / St. Vincent's neighborhoods, per City mapping.

Per information from *Plan Bridgeport*, current land uses within Bridgeport vary, with residential uses accounting for 32% of Bridgeport's total land area, followed by parks/open space and waterbodies (25%). Transportation uses (roads, high-ways, railroads) cover 18% of Bridgeport's land, while commercial, industrial, and institutional uses comprise 15%. Land uses within the Project Area are primarily residential, with smaller pockets of commercial, industrial, and institutional uses, as shown in **Figure 3-8**.

Properties within the Project Area are zoned primarily as various residential neighborhood zoning classifications, with smaller areas zoned as office or core areas or mixed use as shown in the Zoning Map (**Figure 3-9**). The two park areas are zoned as Parks and Open Space.

Recreational Resources

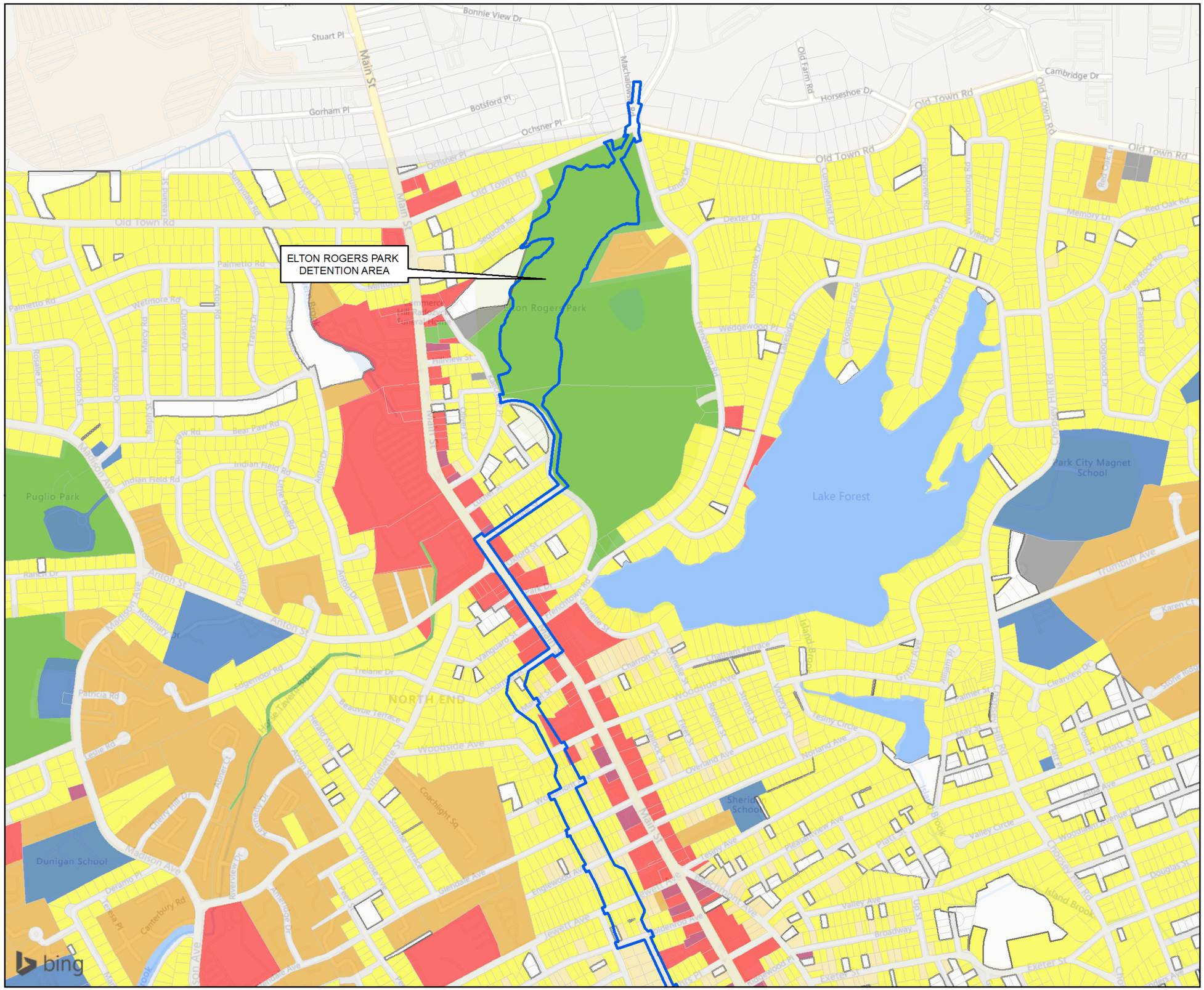
Bridgeport is known as "The Park City," and municipal parks are key resources within the city. The city has a Parks Board and there is a Master Plan for both Veterans Memorial Park (formerly Ninety Acres) and Seaside Park, but not for Elton Rogers or Svihra Parks.

Figure 3-10 depicts Open Space and Recreational Areas within the Project Area and vicinity. Municipal open space includes land uses such as cemeteries, preserved open space, recreational areas, and schools.

Along the Project Area there are two municipal parks: Elton G. Rogers Park in the north and Svihra Park in the east. Both parks are currently used as passive recreational areas. In Elton Rogers Park, trails are located in the south and connect to Kaechele Pl., Luther St., Cambridge Ave., and Frenchtown Rd, according to City mapping.

The northern portion of Elton Rogers Park is primarily wetland areas, so trails have not been developed there. One trail crosses the top of Elton Rogers Dam, as shown in **Photo 3-3**. This is the only trail that connects the western and eastern sides of the park, otherwise one must cross Ox Brook and associated wetlands on either side of the dam.

In Svihra Park, there is a long trail that leads between a residential area at the corner of Ezra Street and Fairview Avenue and the Read Elementary School (also along Ezra Street) (see **Photo 3-4**). There are no formal trails or other use for the private parcel adjacent to Svihra Park, which is undeveloped. The City's intent is to acquire the private parcel and add that land to Svihra Park.


ELTON ROGERS PARK
DETENTION AREA
Main St
Old Town Rd
Bonnie View Dr
Stuart Pl
Gorham Pl
Botsford Pl
Ochsner Pl
Machalow Rd
Old Farm Rd
Horseshoe Dr
Cambridge Dr
Dexter Dr
Wedgewood Pl
Red Oak Rd
Memory Ln
Grey Rock Rd
Eastwood Rd
Dogwood Dr
Palmetto Rd
Wetmore Rd
Quincy Dr
Marcy Rd
Rosalie Dr
Dodson St
Ralph St
Bear Paw Rd
Indian Field Rd
Hillview St
Elton Rogers Park
Lake Forest
Park City Magnet School
Puglio Park
Anton St
Madison Ave
Rosemary Dr
Edgemoor Rd
Trelane Dr
Patricia Rd
Hyde Tavern Road
NORTH END
Beauvue Terrace
Howard Ave
Woodside Ave
Overland Ave
Coachlight Sq
Sunset Terrace
Primrose Ave
Glendale Ave
Englewood Ave
Jewett Ave
Cherry Hill Dr
Deramo Pl
Canterbury Rd
Dunigan School
Sheridan School
Charron St
Clarkham Terrace
Trumbull Ave
Karen Ct
Clearview Dr
Stone Ridge
Platt St
Valley Circle
Broadway
Exeter St
Douglas St
Island Brook
Lesley Circle
Frenchtown Rd
Grenfell St
Orford St
Lenox St
Vanguard St
Lauralton Rd
Lexington Ave
Bunnell St
Lunn Ln
Lee Ln
Lee Ct
Lee Pl
Lee Ter
Lee Rd
Lee Dr
Lee Ave
Lee St
Lee Cir
Lee Way
Lee Blvd
Lee Pkwy
Lee Trl
Lee Hwy
Lee Expy
Lee Tpke
Lee Fwy
Lee Sq
Lee Plz
Lee Mall
Lee Ctr
Lee Bldg
Lee Hall
Lee Lib
Lee Mus
Lee Gal
Lee Thr
Lee Aud
Lee Arc
Lee Obs
Lee Pla
Lee Zoo
Lee Bot
Lee Gar
Lee Nur
Lee Cem
Lee Mon
Lee Mem
Lee Tom
Lee Vau
Lee Cry
Lee Mau
Lee Sar
Lee Cat
Lee Bas
Lee Fon
Lee Pon
Lee Riv
Lee Cre
Lee Bay
Lee Gul
Lee Sea
Lee Ocn
Lee Isl
Lee Pen
Lee Cap
Lee Bch
Lee Dun
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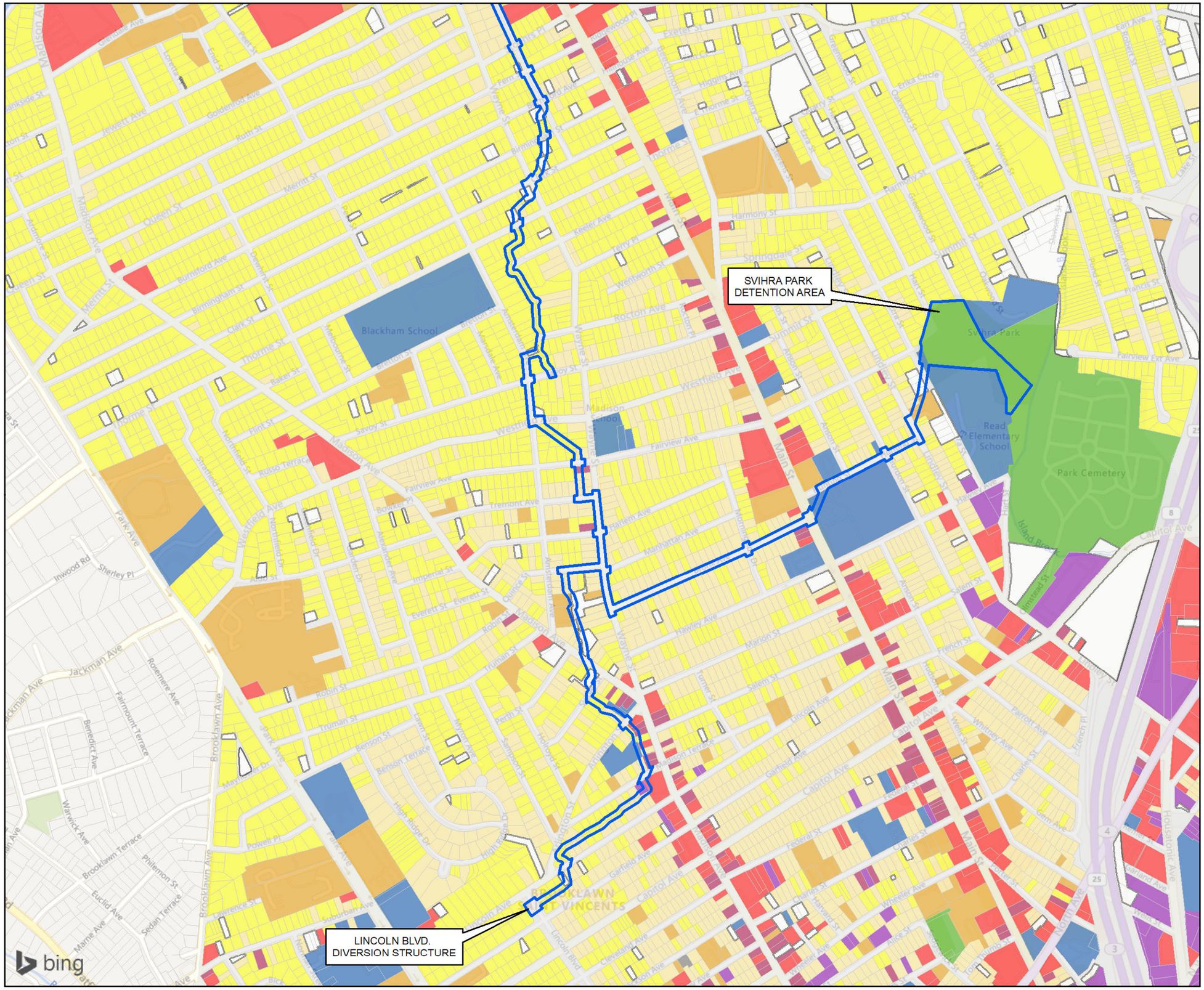
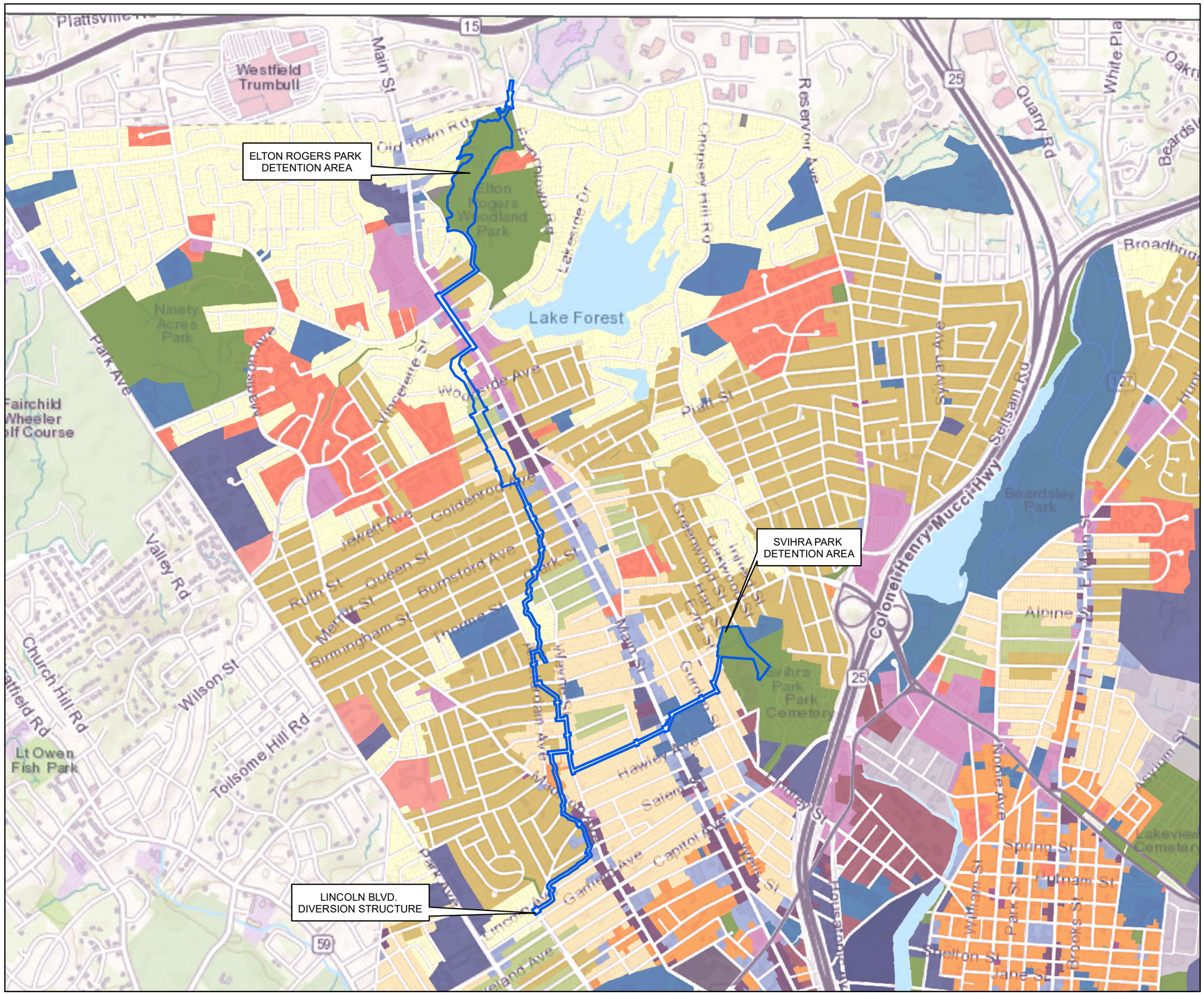

SVIHRA PARK
DETENTION AREA
LINCOLN BLVD.
DIVERSION STRUCTURE
Blackham School
Madison School
Read Elementary School
Svihra Park
Park Cemetery
Island Beach
Pleasure Beach
Bridgeport Harbor
Long Island Sound
Fairfield
Trumbull
Stratford
Milford
Bridgeport
Park Ave
Madison Ave
Queen St
Merritt St
Burnford Ave
Birmingham St
Clark St
Thorme St
Baker St
Savoy St
Flint St
Russo Terrace
Fairview Ave
Tremont Ave
Westfield Ave
Leeder Ave
Terry Pl
Wentworth St
Rocton Ave
Springdale St
Harmony St
Exeter St
Higgins Ave
Erika Circle
Oakwood St
Ernest St
Hillside Ave
Thorme St
Main St
Summit St
Fairview Ext Ave
Francis St
Inwood Rd
Sherley Pl
Jackman Ave
Rosemere Ave
Fairmount Terrace
Benedict Ave
Warwick Ave
Brooklawn Terrace
Philemon St
Euclid Ave
Marne Ave
Sedan Terrace
Brooklawn Ave
Lawrence St
Suburban Ave
Jewett Ave
Goldenrod Ave
Ruth St
Elmore St
Ferris St
Grenfell Ave
Melbourne St
Britton St
Hamilton Ave
Armstrong Ct
Northfield St
Strathmore Pl
Boothe Pl
Field Dr
Aldo St
Northfield Dr
Imperial St
Everett St
Robin St
Truman St
Benson St
Benson Terrace
Mayfield Dr
Powell Pl
Highridge Dr
Fairview Ave
Manhattan Ave
Amsterdam Ave
Warren St
Clarence St
Madison St
Hayley Ave
Marion St
Salem St
Lincoln Ave
Garfield Ave
Capitol Ave
Federal St
Wheeler Ave
Harvard St
Charles St
Hollister St
Sampson St
Perth St
Roosevelt Dr
Lincoln Blvd
Cleveland Ave
Wilson Ave
Hamilton Ave
Ardmore Rd
Ardmore Pl
Ardmore Ave
Ardmore Terrace
Monroe St
Madison St
Main St
Broad St
Linden St
Lindley St
Atlantic St
Arctic St
Atlantic Ave
Arctic St
Seaview Ave
Stratford Ave
Bostwick Ave
Boston Ave
Crescent Ave
Seaside Park
Seaside Park Ave
Seaside St
Goldenrod Ave
Jewett Ave
Merritt St
Queen



LEGEND

N

Project Area

Bridgeport Zoning

- DX2 Downtown Edge
- MX1 Mixed-Use Corridor
- MX2 Mixed-Use Centers
- MXN Mixed Use Neighborhood
- RX1 Residential-Office Corridor
- RX2 Residential-Office Center
- N1 Traditional Neighborhood
- N2 Mid-Century Neighborhood
- N4 Suburban Neighborhood
- NX1 Neighborhood Mix 1
- NX2 Neighborhood Mix 2
- NX3 Mixed Residential 1
- NX4 Mixed Residential 2
- CX Heavy Commercial-Wholesale
- IX Office-Industrial Centers
- I Industrial
- P1 Parks and Open Space
- P2 Civic and Institutional
- P4 Utility-Energy Infrastructure
- P5 Detention-Correction Facilities

NOTES:

1. BASE MAP SOURCE: CITY OF BRIDGEPORT ZONING MAP, EFFECTIVE JANUARY 1, 2022

2. ZONING DATA ACQUIRED FROM CTDEEP GIS LAYERS FOR FAIRFIELD AND TRUMBULL PARCELS. CITY OF BRIDGEPORT ZONING MAP, EFFECTIVE JANUARY 1, 2022. AVAILABLE AT: HTTPS://CODE.ZONEBRIDGEPORT.COM/MAP.

1,500 750 0 1,500 Feet

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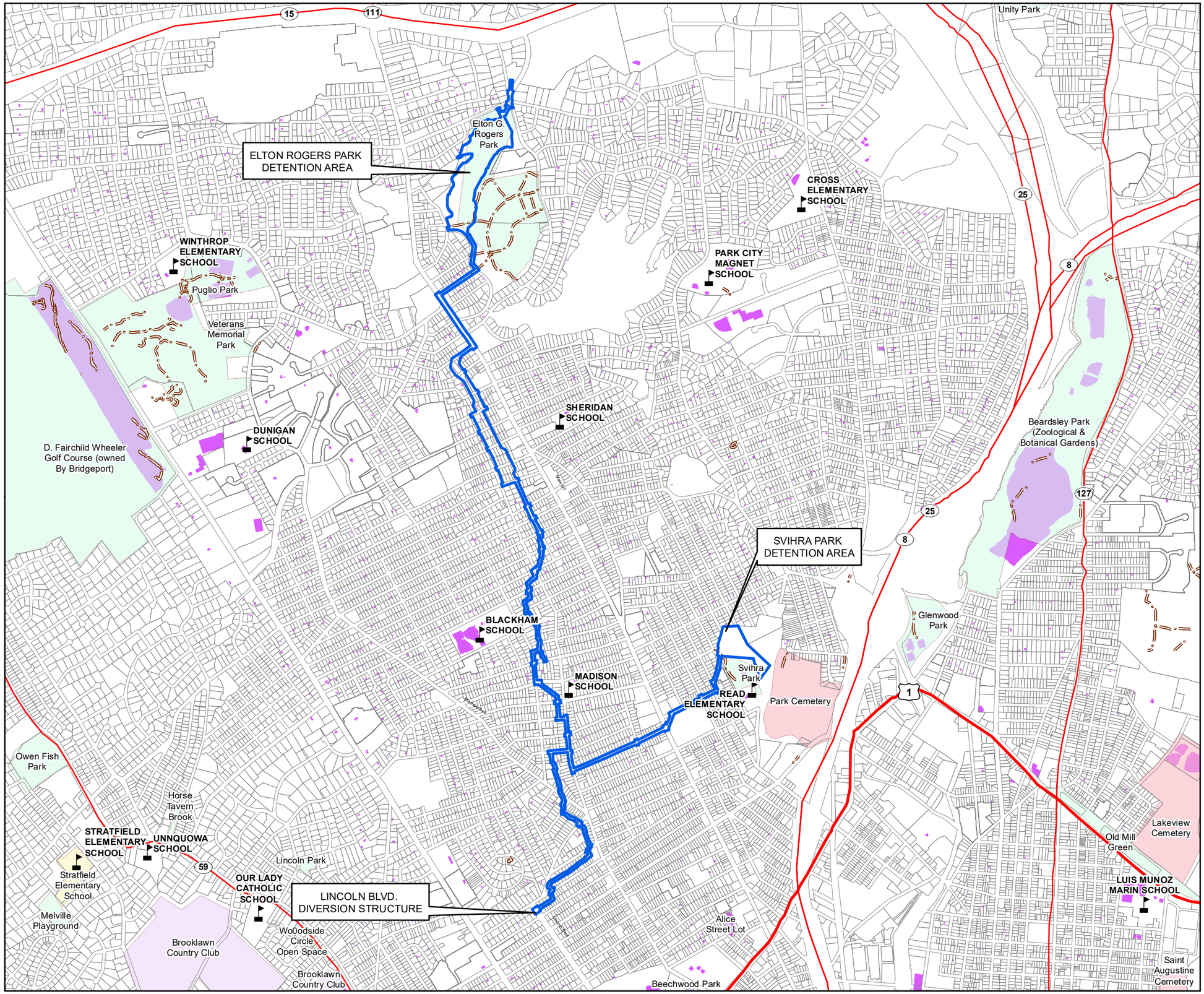
OX BROOK FLOOD CONTROL MASTER PLAN EIE
BRIDGEPORT, CT

ZONING MAP

PREPARED BY:		PREPARED FOR:	
GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		CITY OF BRIDGEPORT BRIDGEPORT, CT	
PROJ MGR: JRB	REVIEWED BY: TEJ	CHECKED BY: SLL	FIGURE 3-9
DESIGNED BY: JRC	DRAWN BY: JRC	SCALE: 1 in = 1,500 ft	
DATE: FEBRUARY 2022	PROJECT NO: 15.0166920.00	REVISION NO:	SHEET NO: 1 OF 1



LEGEND

- Project Area
- School
- Trails
- Park Sports Facilities
- Parcels

Municipal Open Space

- Cemetery
- Existing Preserved Open Space
- General Recreation
- School

N

NOTES:

1. OPEN SPACE ACQUIRED FROM CTDEEP GIS LAYERS FOR 1997 MUNICIPAL AND PRIVATE OPEN SPACE, CONNECTICUT ROUTES, FAIRFIELD AND TRUMBULL PARCELS. CITY OF BRIDGEPORT GIS LAYERS FOR SCHOOLS, PATH TRAILS, PARK SPORT FACILITIES AND PARCELS.

1,500 750 0 1,500 Feet

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OX BROOK FLOOD CONTROL MASTER PLAN EIE
BRIDGEPORT, CT

OPEN SPACE AND RECREATIONAL AREAS MAP

PREPARED BY:
GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com

PREPARED FOR:
CITY OF BRIDGEPORT
BRIDGEPORT, CT

PROJ MGR: JRB	REVIEWED BY: TEJ	CHECKED BY: SLL	FIGURE 3-10
DESIGNED BY: JRC	DRAWN BY: JRC	SCALE: 1 in = 1,500 ft	
DATE: FEBRUARY 2022	PROJECT NO: 15.0166920.00	REVISION NO:	SHEET NO: 1 OF 1



Photo 3-3. Trail along crest of the existing Elton Rogers Park Dam



Photo 3-4. View from Near Entrance of Svihra Park Looking Along Trail Toward Read School, with Views of Park and Private Property

3.3.2.2 Impacts

There will be no long-term changes to overall current land uses or zoning as a result of the Project, although as discussed elsewhere, there will be some private property impacts associated with the Project related to channel/culvert improvements, which will result in the need for some easements and acquisitions, to be determined during final design. Limited impacts to commercial properties will also occur, but these will be temporary in nature as well and land use type will not change. Positive impacts include the reduction damages from the flooding of Ox Brook to residential, commercial, and industrial properties.

Modifications will occur in Elton Rogers Park and the proposed Svihra Park area. A portion of the proposed Svihra Park area is currently privately held and will be purchased and converted to municipal open space. Although the overall open space/undeveloped land use will not change, the construction of the storage areas in these parcels will result in certain portions of the parcels being more inundated and less accessible at times and result in modifications to existing trails. However, the areas to be inundated are already primarily wet in nature and unlikely to be highly used for recreation now beyond passive viewing.

3.3.2.3 Mitigation

As discussed elsewhere in this EIE, there will not be significant changes in overall land use, but easements and acquisitions will be required for certain areas, which will be negotiated and fair and equitable compensation given to affected property owners. The City of Bridgeport will provide fair and equitable compensation to affected property owners directly affected by the Proposed Action. Such activities would be carried out in accordance with the State's Uniform Relocation Assistance Act, impacted residents will receive full market value purchase and relocation costs paid by City in accordance with the Act.

Trails in Elton Rogers Park and Svihra Park may need to be reviewed and adjustments considered for the future by the City. During repair of the dam, there will temporarily be no access across it from east to west, as wetlands are on the north and south sides of the dam. Patrons will have to use alternate trails during that period.

3.3.3 Population, Employment, Income, Housing, and Commercial Property

3.3.3.1 Existing Conditions

Population, Employment, Income

There are several measures of economic conditions of the state of Connecticut, as well as the regions and municipalities within the state. Comparisons of these metrics for Bridgeport, with regional and statewide statistics provide insight into the relative economic health of the city.

According to the United States Census Bureau, Bridgeport's 2020 total population was 148,654. Population increased by 1% from July 2010 to April 2020 (USCB, 2020). The age range was 6.4% for persons under the age of 5, 23.1% for persons under the age of 18, 11.3% for persons aged 65 and older, and 59.2% for persons aged 18 to 65.

In order to better understand the demographics of the neighborhoods most likely affected by the Proposed Action, specific census tracts in Bridgeport were examined. According to the U.S. Census Bureau, a census tract is:

> *"a small, relatively permanent statistical subdivision of a county delineated by a local committee of census data users for the purpose of presenting data. Census tract boundaries normally follow visible features,*

but may follow governmental unit boundaries and other non-visible features in some instances; they always nest within counties. Designed to be relatively homogeneous units with respect to population characteristics, economic status, and living status at the time of establishment, census tracts average about 4,000 inhabitants."

The following census tracts may be affected by the Proposed Action: Tracts 904, 724, 727, 2572, 729, 723, 722, 725, and 726. The following table highlights the 2020 demographic data for the selected census tracts compared to overall city demographics. **Figure 3-11** depicts the census tract boundaries in the Project Area and their associated neighborhoods.

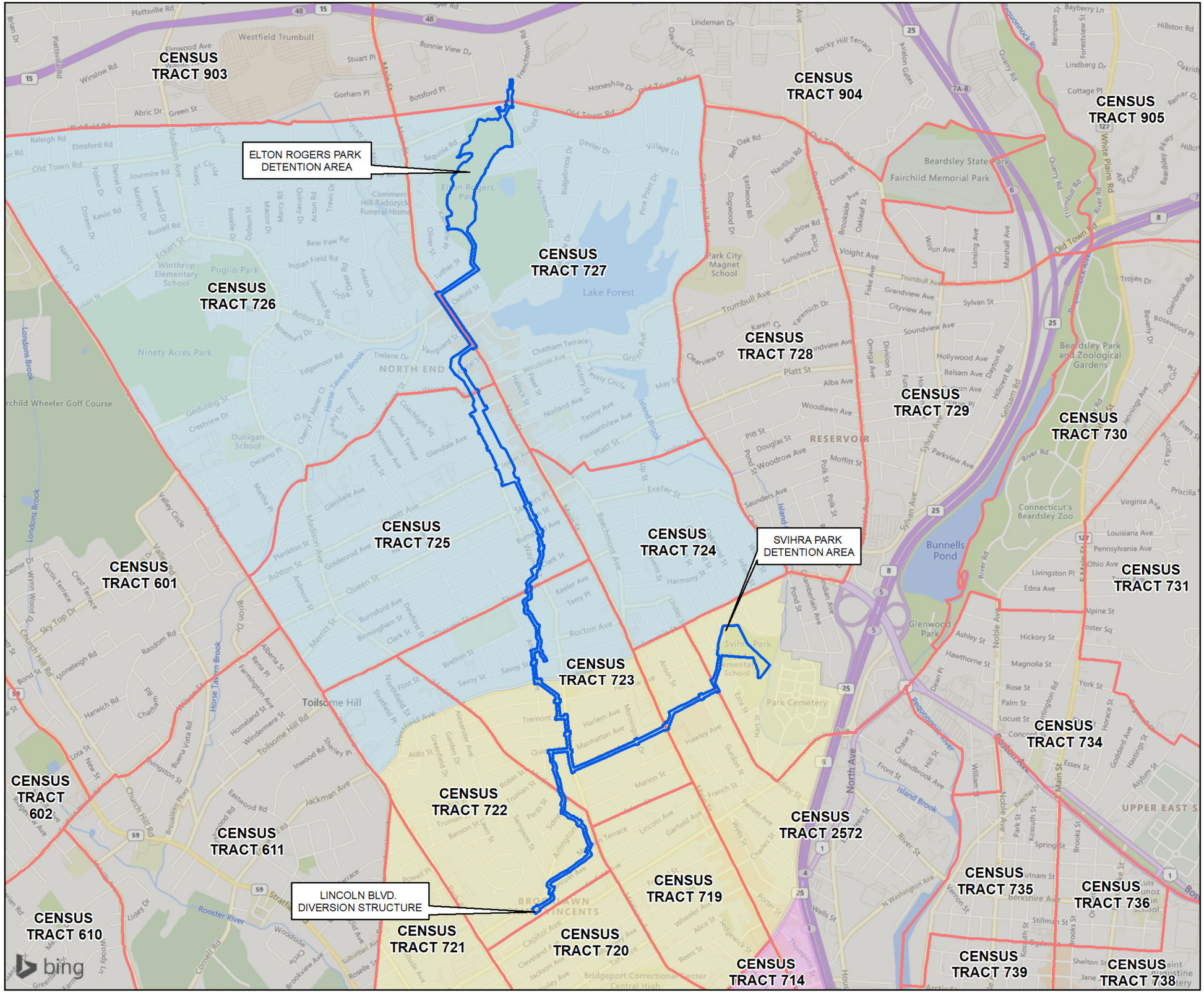
Table 3-6. 2020 U.S. Census Demographic Data for Bridgeport and Select Census Tracts within the Project Area

Census Tract	Population of Tract	% of City Population	White (% of Tract Population)	Black (% of Tract Population)	Hispanic Non-White (% of Tract Population)	Asian Pacific (% of Tract Population)
Tract 904	6,714	4.52	4,438 (66%)	725 (11%)	1,024 (15%)	615 (9%)
Tract 724	2,833	1.91	552 (19%)	1,183 (42%)	1,065 (38%)	128 (5%)
Tract 727	3,849	2.59	1,016 (26%)	1,444 (38%)	1,372 (36%)	142 (4%)
Tract 2572	4,087	2.75	688 (17%)	1,718 (42%)	1,760 (43%)	106 (3%)
Tract 729	4,849	3.26	730 (15%)	2,569 (53%)	1,722 (36%)	112 (2%)
Tract 723	5,404	3.64	1,234 (23%)	1,844 (34%)	2,097 (39%)	183 (3%)
Tract 722	3,944	2.65	1,505 (29%)	979 (34%)	1,288 (33%)	126 (3%)
Tract 725	5,843	3.93	2,232 (39%)	1,496 (26%)	1,908 (33%)	243 (4%)
Tract 726	7,746	5.21	4,350 (56%)	1,518 (20%)	1,643 (21%)	345 (4%)
TOTAL	**45,269**	**30.00**	**16,745**	**13,479**	**13,885**	**2,000**

The variation in the population of various races by tract largely correlates to the geolocation of the tract, with higher percentage of white populations in the northern tracts (904 and 726) and Asian Pacific populations in tract 904. Further to the south, closer to downtown areas and areas with higher population densities, higher percentages of black and non-white Hispanic were documented. Such areas, which consist of the southern tracts in the Project Area, have more rental properties and multi-family homes.

Bridgeport is an Environmental Justice Community. EPA defines Environmental Justice as the "fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation and enforcement of environmental laws, regulations and policies" and where fair treatment means that "no group of people should bear a disproportionate share of the negative environmental consequences resulting from industrial, governmental and commercial operations or policies". Communities most impacted by environmental harms and risks are typically referred to as "Environmental Justice (EJ) communities" or, as the EPA also defines them, "overburdened communities." There are a few factors that go into identifying EJ communities, including where there is: (1) disproportionate exposure to environmental hazards and (2) increased vulnerability to said hazards.

According to EPA (2021), minority, low-income, tribal, or indigenous populations often experience disproportionate environmental harms and risks. "This disproportionality can be a result of greater vulnerability to environmental hazards, lack of opportunity for public participation, or other factors. Increased vulnerability may be attributable to an accumulation of negative or lack of positive environmental, health, economic, or social conditions within these populations or places. The term describes situations where multiple factors, including both environmental and socioeconomic stressors, may act cumulatively to affect health and the environment and contribute to persistent environmental health disparities".



LEGEND

- Project Area
- 2020 Census Tract

Neighborhoods

- Brooklawn / St Vincent's
- Hollow
- North End

N

NOTES:

1. BASE MAP SOURCE: © 2022 MICROSOFT CORPORATION © 2022 TOMTOM

2. CENSUS DATA ACQUIRED FROM CITY OF BRIDGEPORT GIS LAYERS FOR NEIGHBORHOODS. CENSUS BUREAU'S MAF/TIGER DATABASE GIS LAYERS FOR 2020 CENSUS TRACT.

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OX BROOK FLOOD CONTROL MASTER PLAN EIE
BRIDGEPORT, CT

2020 CENSUS TRACT MAP

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PROJ MGR: JRB	REVIEWED BY: TEJ	CHECKED BY: SLL	FIGURE 3-11
DESIGNED BY: JRC	DRAWN BY: JRC	SCALE: 1 in = 1,500 ft	
DATE: FEBRUARY 2022	PROJECT NO: 15.0166920.00	REVISION NO:	SHEET NO: 1 OF 1

In 2019 dollars, the median household income from 2015-2019 in the city of Bridgeport was $46,662 and 21.8% of Bridgeport's population was identified as persons in poverty.

According to the 2020 U.S. Census, Bridgeport's racial population distribution is:

- 41.0% Hispanic Non-White
- 35.1% Black
- 20.1% White
- 3.4% Asian Pacific
- 0.4 % Native American

Of those aged over five, 48.8% of Bridgeport citizens speak a language other than English at home on a daily basis (USCB, 2020). According to data available from the Census Bureau, 21% of households do not have a broadband internet subscription and according to Advance Connecticut (2021), 20% have no access to a vehicle.

Table 3-7. City of Bridgeport Education Summary

Four-Year Graduation Rates within Bridgeport School District	76.0%
Percent of Population Attaining High School Diploma	76.4%
Percent of Population Attaining Bachelor's Degree or Higher	18.8%

The U.S. Environmental Protection Agency's EJScreen, an online mapper, helps to identify environmental risks for communities around the country. Some risks in particular are tracked by EPA and help to identify to Environmental Justice Communities what may be present at a location and the percentile that location's exposure hazard is relative to the state as a whole. EPA has identified Particulate Matter, Ozone, National Air Toxics Assessment (NATA) Diesel, NATA Respiratory, Traffic Proximity, Lead Paint Indicator, Superfund Proximity, Risk Management Proximity, Hazardous Waste Proximity, and Wastewater Discharge Indicator as having high percentile risk for the Project Area. Certain indicators are worth pointing out for the Project Area with high percentiles (greater than 90), such as Particulate Matter, Ozone, NATA Diesel, NATA Respiratory, Traffic Proximity, and Lead Paint Indicator. Some of these such as particulate matter, NATA Diesel, NATA Respiratory Proximity and Traffic are all correlated with urban environments, Lead Indicator is likely due to the age of the housing in the Project Area.

Housing/Commercial Properties

The Census Bureau website (census.gov) was reviewed to provide a summary of housing characteristics within Bridgeport as a whole, summarized in **Table 3-8**.

Table 3-8. City of Bridgeport Housing Characteristics

Total # of Households	50,638
Average # of Persons per Household	2.79
Percent of Residents Remaining in Same Location Year to Year	83.1%
Median Home Value	$174,700
Home Ownership Rate	43%
Owner-Occupied Housing Rate	41.8%
Median Monthly Mortgage Cost	$1,937
Median Gross Rent	$1,163

The corridor along the Project Area consists primarily of single- and multi-family homes with some commercial and industrial areas. Generally, the further south along the Project Area, the more multi-family homes are present. Most homes date from around the 1950's, when Bridgeport was built out after World War II. Some buildings were built as single-family homes and converted to multi-family homes more recently, as is typical of many New England industrial towns. Other homes were built with the intention of housing multiple families in several units in one building (see the Zoning Map, **Figure 3-9**).

Many properties in the Project Area are located in areas identified in the FEMA National Flood Hazard Layer. Most properties which are in the zones are primarily located in Hazard Class A, 1% Annual Chance of flooding (also known as the 100-Year Flood Zone), as shown in **Figure 3-5**.

3.3.3.2 Impacts

In accordance with the CT DEEP Environmental Equity Policy, proposed state and federal actions should not result in disproportionately high and adverse human health or environmental effects on minority and low-income populations. This policy is similar to Federal Executive Order 12898, "Federal Actions to Address Environmental Justice in Minority Populations and Low-Income Populations" issued by former President Clinton. Of the nine census tracts along Ox Brook, seven have relatively high minority populations (population less than 70 percent White). Each of these are located along the southern end of the Project Area.

Tracts 724, 2572, and 729 have some of the highest minority populations of any census tracts in Bridgeport. Approximately 80% of each tract's population is Hispanic, Black or Asian Pacific.

The Proposed Action is a flood control improvements project, which is expected to have positive impacts on the city and its residents through a reduction in chronic flooding, which currently results in repeated physical damages to properties, as well as negative impacts to quality of life and health.

The Proposed Action is anticipated to have positive impacts as follows:

- Flooding will be significantly reduced, resulting in less property damage to residential, commercial, and industrial property, as well as reduced impacts to transportation routes (buses, pedestrian routes, etc.) due to flooding;
- The health and safety of residents during storm events will be improved due to a reduction in flooding and the potential for residents to contact floodwaters in the Project Area and beyond;
- Construction of the flood mitigation improvements will have direct and indirect economic benefits to the city such as the reduction of loss of time spent at work, at school, or at other activities which propel the economy because of a reduction in flooding events that currently result in temporary closures of businesses and for residents to miss work/school, etc. due to the need to deal with flood repairs/losses;
- The Project will result in the potential for reduced need for residents to purchase flood insurance; and
- Potential for increased property values due to a decrease in flood impacts on these properties.

Once the Project is completed, revised FEMA mapping may be pursued by the City and certain owners' properties may eventually be located outside of the 100-year floodplain. It should be stated that this is not likely to occur for several decades after all phases of the Project are complete. At that point, there will be an opportunity for the City and/or its affected citizens in the Project Area to request map amendments from FEMA to reduce the mapped flood hazard areas.

Because the existing brook (piped and open channel sections) runs through and along city streets, but also along private properties (both residential and commercial), any project of improvements would result in work on private properties or areas with existing easements. Phase 1 work within Elton Rogers Park will occur fully on City-owned property and much

of the work for the Phase 2 Svihra Park diversion and for other culvert street crossing improvements will be along existing City streets. Work for the Svihra Park diversion and detention area will however require purchase of a private parcel of land, which is already under negotiation between the City and the owner for acquisition and is anticipated to occur within the next year.

Work on other privately held parcels will require the City to negotiate temporary (construction phase) or permanent easements or to acquire parcels where the Project may require permanent larger-scale use of a parcel. Kasper (2001) made a preliminary assessment of general project sections that may require easements or acquisitions, but because of the preliminary nature of the design, did not designate specific parcels that would require these actions. Kasper identified areas for potential easements/acquisitions as the following (from north to south):

- An area north of the intersection of Old Town Road with Frenchtown Road and Machalowski Road
- Lourmel Street to Goldenrod Avenue
- Burnsford Avenue to Savoy Street
- Westfield Avenue to Tremont Avenue
- Arlington Street to Lincoln Avenue

During Phase 1 and Phase 6, there will be little to no housing or property impacts, as the modifications made to Elton Rogers Park will be localized and in City-owned properties or rights-of-way (minor impacts to localized traffic will be temporary).

As the Project progresses in Phases 2-5, there are potential impacts to housing and properties, particularly in locations where open channel sections exist and channel improvements are proposed or in areas where existing culverted or piped sections run through yards and private properties. Such areas will have temporary construction impacts associated with channel improvements/reconstruction. For certain properties, temporary or permanent easements will need to be acquired for the improvements and in limited locations, acquisitions may be necessary in order to construct Master Plan elements. As Phases 2-6 have been designed only to a preliminary level, the magnitude and extent of easements and acquisitions are unknown at this time, although estimates have been made of certain areas that may require easements or acquisitions, as part of the Kasper work (2001), as identified above. As design on these phases continues, determinations will be made as to what easements and acquisitions are needed and discussions will ensue with property owners.

Structural integrity of homes and outbuildings will need to be considered during the design phase and construction of each Project Phase. In some cases, structures such as garages have been constructed across the brook or immediately adjacent to it. As final design progresses, individual structures and properties will need to be assessed to determine what action may be needed.

3.3.3.3 Mitigation

Mitigation will likely entail the negotiation of easements and/or acquisitions of properties as may be needed for each Project Phase. This is a project cost and will take time and negotiations to accomplish over the various phases. Minority populations will be impacted by the Proposed Action, as much of the housing stock within the Project Area is either owned or rented by minority populations, particularly by those located nearer to the southern portion of the Proposed Action. Bridgeport's Plan of Conservation and Development published in 2019 (*Plan Bridgeport*) calls to integrate more public and affordable housing in residential development by 2029 and for the strengthening of neighborhoods by improving quality of life. While the Project will result in improvements to quality of life through the reduction of flooding, property impacts, and impacts to health and safety for residents and businesses in the area, it will result in temporary construction phase

impacts to properties and streets within the Project Area. These will be temporary and will result in infrastructure improvements that will benefit the overall Project Area in the long-term.

Traffic patterns will require temporary mitigative efforts such as detours, the closure of lanes, or other actions as appropriate. Some local streets will have access temporarily impacted and other streets such as Main Street will require the closure of lanes and detours by the City. Certain businesses may also see construction phase impacts during work within streets, but care will be taken to keep Main Street and other businesses accessible and open during construction. A plan will be developed during the design process that incorporates signage and detouring, as needed.

While the Project will result in positive overall impacts to the community as a result of decreased flooding, easements and acquisitions needed for construction, as determined during final design, will directly impact specific property owners. The City of Bridgeport will provide fair and equitable compensation to affected property owners directly affected by the Proposed Action through easements and acquisitions. Such activities will be carried out in accordance with the State's Uniform Relocation Assistance Act.

3.3.4 Economic Impact Analysis

As part of the CEPA review, the relative economic costs and benefits of the Proposed Action were considered.

3.3.4.1 Costs

Costs for implementation of the Proposed Action (all six phases) were estimated by Kasper in 2001 (for all phases) and by Tighe & Bond (for dam rehabilitation work only). GZA reviewed the cost estimates prepared by both designers as part of this EIE process. Since the time of the Kasper cost estimate, certain elements of the Project have been modified to be included in different phases of the Project (such as the connection between the dam and Lourmel Street) and more accurate cost estimates were prepared for the dam rehabilitation work based on more complete design development. Also, significant time has passed since the original estimate in 2001.

As such, cost estimates from Kasper and Tighe and Bond required adjustment to reflect phasing changes and to better reflect escalated total project costs in 2021 dollars. GZA used the Engineering News Record (ENR) *Construction Cost Index History* to escalate costs from 2001 and 2019 dollars to 2021 dollars for the Kasper and Tighe and Bond cost estimates, respectively, and adjusted line item costs between phases for Kasper's estimate to reflect phase changes since 2001. For simplicity, GZA included all dam rehabilitation related costs as Phase 1 of the Project, although overexcavation costs which would be included in Phase 6 were identified in Tighe & Bond's cost estimate.

The overall Project cost in October 2021 dollars is estimated at $68.3 million dollars. This includes construction costs; future engineering, design, and permitting; easements and acquisitions; designer services during construction; and local administrative services; as well as a construction contingency.

3.3.4.2 Benefits

The Project Area and areas beyond are currently subject to a pattern of chronic flooding, leading to repeated damages to residences and businesses in the area of Ox Brook, such as:

- Property damages to residential structures (homes, garages, outbuildings) and commercial/industrial businesses;
- Infrastructure damage and the need for municipal personnel to address culvert blockages and damages;
- Roadway and sidewalk closures and detours affecting vehicles, bicycles, and pedestrians;

- Business interruptions caused a flooding event;
- Loss of service to roadways and/or utilities and implementation and maintenance of any detours caused by a flooding event;
- Environmental damages caused by a flooding event (e.g., cleanup of wastewater overflow into properties);
- Overtime pay for Emergency Response to a flooding event;
- Safety hazards posed by floodwaters and the need for emergency response by Fire Department, Police Department, and emergency medical services to establish and maintain detours and road closures, coordinate evacuations, and provide other assistance to those affected by flooding;
- Health hazards associated with sewer overflows, interruptions of services, or other water quality impacts associated with floodwaters; and
- Trauma and negative effects on homeowners due to repeated losses and risks associated with flooding.

Implementation of the Proposed Action will result in a decrease in flooding in the Project Area and Ox Brook area overall, resulting in decreases in the types of damages identified above. These can be viewed in a cost-benefit analysis as "benefits", also sometimes referred to as "avoided damages". Flooding reduction can also provide economic benefits by encouraging reinvestment in properties and by increasing property values, as owners gain confidence that flooding will not continue to cause damages, and as owners and renters find the neighborhood more desirable with reduced flooding impacts.

Reduction of flooding events and these types of damages will result in improved quality of life, health, and safety for the residents and businesses within the watershed, and a reduction in disruptions for those parties, although these benefits are difficult to quantify through a numerical analysis. As previously discussed, the city of Bridgeport is an Environmental Justice (EJ) community, and areas along Ox Brook and within the Ox Brook watershed have EJ populations which are either minority, low income, or language isolated, or some combination of these demographics. These populations are often less likely to have flood insurance for a variety of reasons (cost, awareness of the program and its benefits, renting vs. ownership, etc.). These populations may also be less likely to have the means of repairing flood damages or replacing flood losses and may be less aware or able to address the health hazards (mold, etc.) posed after flood waters recede from their homes. In addition, those that rent may be unable to make repairs themselves because they are dependent upon a landlord or owner to do so.

FEMA provided the City and GZA with city-wide data regarding National Flood Insurance Program policies which were active as of November 13, 2020. City-wide there were 754 active policies as of that date. GZA geocoded the available data to review the number of policies within the regulated FEMA floodplain along Ox Brook and summarized the data in **Table 3-9** below. For clarity, flood insurance may be purchased by property owners, renters and businesses, regardless of whether they live in a flood hazard area, as long as they live in a participating community. The City of Bridgeport is a participating community in the NFIP.

Table 3-9. National Flood Insurance Program Policies within Ox Brook Area.

Geographic Area	# Parcels	# Active NFIP Policies*
Ox Brook FEMA (100-Year) Floodplain	403	67

** Note that there may be multiple policies per parcel in the case of multi-family units or rental units. Similarly, there may be multiple parcels reflected in a single policy for multi-family development such as apartments.*

As shown in the table, less than 20% of the properties within the regulated FEMA floodplain had flood insurance as of the date of the data shared by FEMA. Since flood damages are typically not included in basic insurance policies, this suggests that many residents and businesses within the floodplain are not insured for losses related to flooding. This lack of coverage illustrates the vulnerabilities of the population in the area of Ox Brook to uninsured flood losses.

Damages Data

Some of these impacts and damages are more easily quantifiable than others. In the effort to quantify damages that could be avoided through implementation of the Proposed Action for a benefit-cost analysis, GZA requested information relative to damages from FEMA and the City of Bridgeport, through its OEMHS, which maintains records of damages for some events. The City has not maintained any significant separate records of efforts needed to address flooding, such as emergency response expenses, maintenance and damage repair expenses along the brook, or records relative to closures and detours, so monetary values were tied to reported property damages, as recorded by FEMA or the City.

FEMA Damages Data

GZA was provided city-wide flood damage data from FEMA associated with the National Flood Insurance Program (NFIP) (FEMA, 2020). Data was provided for claims during the period from August 30, 1977 to July 3, 2020. GZA geocoded data to limit the review to claims likely to be tied to flooding from Ox Brook. There were 97 paid claims identified within the study area, with paid damages identified at $503,738 (note that this total is based on a summation of claim values and not adjusted by year to reflect inflation). The data were then reviewed for dates where there appeared to be a larger number of claims with larger loss values related to Ox Brook flooding.

Five events were identified as those with the highest level of losses during the data period. These are tabulated below with identified damages. Note that damages are not in current day dollars, but rather represent payment amounts at the time of the loss:

Table 3-10. FEMA Damages Data for Specific Storm Events.

Event Date/Dates	Number of Claims	Reported FEMA Damages
January 20 and 21, 1979	9	$13,562
April 9 and 10, 1980	15	$23,808
June 6, 1982	17	$31,739
April 22 and 23, 2006	10	$49,718
September 24-26, 2018	13	$145,450

City of Bridgeport Office of Emergency Management and Homeland Security (OEMHS) Data

In addition to the FEMA data provided, the City of Bridgeport's OEMHS provided tabulated damages information for two storms:

- The remnants of Hurricane Ida on September 1st and 2nd, 2021, which according to the CT Post, resulted in 5.94 inches of rainfall at the city's Airport (CTPOST, 2021); and
- An event on September 25, 2018, which the OEMHS characterized as a "flash flood" event, which resulted in 6.78 inches of rainfall in the North End of the city (Bridgeport OEM, 2018).

The City provided tabulated city-wide damages for each of the two storms, which GZA geocoded using GIS to identify which reported damages were in the watershed to Ox Brook. The City identified reported damages for the Ida remnant storm event of $177,860 within the watershed and damages in the amount of $401,100 associated with the September 2018 event. These were the only storms for which damage data were available from the City and provide a limited cross section to show the history and pattern of costs borne by the City and its residents relative to flooding events. With the anticipated effects of climate change, it is anticipated that more frequent and more intense storm events will occur and cause increased effects and damages within the city. According to the *Connecticut Physical Climate Science Assessment Report – Observed trends and projections of temperature and precipitation* prepared by the Connecticut Institute for Resilience and Climate Adaptation (2019), annual total precipitation in Connecticut is projected to increase by approximately 8% by midcentury (2040-2069) and 10% by late century (2070-2099). Increased precipitation levels and intensity of storms will result in additional impacts to residents and businesses. According to the City, drainage systems in the area are undersized and larger storms (>2 inches), hurricanes, tropical storms, and more intense events already result in flooding and damages, which will continue to worsen over time.

3.3.4.3 Analysis and Discussion

While damages associated with individual storm events have been estimated for some historic and more recent events, overall damages are difficult to track, as many residents and businesses do not report damages to the City or seek FEMA reimbursement, especially in situations where residents, particularly in EJ populations, may be underinsured, not have any flood insurance, or are not versed on the pathways for reporting losses or seeking potential reimbursements for damages. In addition, because of the duration of time that flooding issues have existed, tracking for older storms from decades prior may no longer exist within City records. Due to the long history of flood events, fatigue from repeated losses may also set in with residents, resulting in decreased damage reports.

The damages that have been reported for past storms do not tell the complete story of the impacts from flooding events, as they do not include values for overtime emergency responder labor, City labor to clear blockages and debris and to repair infrastructure damages, and other costs that are more difficult to quantify, such as lost work time, business closures, detour time, road and sidewalk closure impacts to pedestrians and bicyclers, and trauma to those subject to repeated flooding.

While implementation of the Proposed Action will result in a major cost expenditure over a period of years, it would significantly reduce the incidence and severity of flooding along Ox Brook, potentially removing up to 347 structures from the FEMA 1% Annual Chance Flood Hazard Area. Reductions in flooding will also clearly provide a benefit to residents and businesses in these flood-prone areas, significantly improve the lives of those who live, work, visit, or travel through the watershed.

3.3.5 Consistency with Plans, Policies, and Regulations

The City of Bridgeport, MetroCOG, and the state of Connecticut have developed several comprehensive planning documents that outline goals and objectives for the development and conservation of land in the city. Bridgeport's Planning Office independently and in conjunction with the regional and the State agencies have also developed plans to bring Bridgeport into the future. The most pertinent and comprehensive plans are summarized herein along with an assessment of the Proposed Action's consistency with each plan.

3.3.5.1 Consistency with Adopted Municipal and Regional Plans

Plan Bridgeport, Master Plan of Conservation and Development (2019)

Plan Bridgeport (Fitzgerald & Halladay, 2019) is the City's current Master Plan of Conservation and Development and "establishes a vision for Bridgeport's physical form, economic and social health, and quality of life. That vision provides a foundation for policy and funding decisions and informs the City's zoning regulations, which protect the health, safety and welfare of the people of Bridgeport".

Plan Bridgeport emphasized four areas, or themes, recommended for prioritization: waterfront development, transit-oriented development, neighborhoods, and housing. The plan calls for creating "…the necessary conditions for increased residential development, at all price points and of all types, that can be financed without City assistance."

Plan Bridgeport has six guiding principles (Fitzgerald & Halladay, 2019):

1. Bridgeport is a Livable City

   Bridgeport has the largest population and highest density of Connecticut's cities, with 147,000 residents and roughly 30,000 jobs. Within its 16 square-mile area, Bridgeport has many land uses, including 32% residential, 25% parks or water bodies, and 15% commercial, industrial, and institutional. In addition to these primary land uses, 18% of Bridgeport's land is occupied by streets, highways, and railroads.

   Bridgeport as a livable city requires maintenance of transportation systems and walkability, as well as maintenance of housing and resiliency of neighborhoods. The Proposed Action will result in decreased flooding, which will keep streets and sidewalks from being closed due to frequent flooding events and reduce maintenance needs, in keeping with Goal 3 of this principle. The reduction in the frequency and severity of flooding events will also protect housing in the neighborhoods along Ox Brook. Implementation of the Proposed Action will also be in keeping with Goal 11 to improve neighborhood resiliency through flooding risk reduction.

2. Bridgeport has a Robust Economy

   Bridgeport has had a long history as an industrial and financial center, but industries have declined since their peak during the World War II era, resulting in a decline in jobs that continues to the present day. Employment has decreased from 61,750 jobs in 1990 to 42,178 in 2017 according to the 2019 report. The City is focused on economic development and focused on initiatives such as downtown redevelopment, mixed use corridors, and a focus on strengthening working and living opportunities in the city.

   The Proposed Action's improvements to reduce flooding impacts in Bridgeport's neighborhoods will work towards this goal as so many areas along Ox Brook will have reduced impacts from flooding. This supports goal 11 of this principle to support housing, by reducing repeated flood damages to homes, which will hopefully provide opportunities for housing reinvestment. The Proposed Action will not result in changes to the economy related to jobs, growth or downtown redevelopment, but will support overall improvements to quality of life for those along the corridor.

3. Bridgeport is an Equitable City

   According to *Plan Bridgeport*, "the presence of equity in a city can be identified by the provision of, and access to, services and resources that are just and fair. Equity provides opportunities for all people to grow and be secure throughout their lives."

Bridgeport has struggled with equity issues, with low incomes and high rates of poverty, burdened with high housing costs, food insecurity, safety and health services needs, and education needs.

The Proposed Action will ensure sustained and reliable infrastructure and reduction in flooding in the future, reducing environmental hazards and climate change risks associated with the continued and worsening flooding along Ox Brook, in keeping with Goal 5 of this principle in the plan.

4. Bridgeport is a Healthy Community

   This principle outlines resources available to populations in the city and discusses steps needed to help the community access resources and become more healthy, including health education and making the community aware of available resources, reductions in existing health hazards such as air pollution, water quality, brownfields, trash and blighted properties, and other sources of pollution.

   The Proposed Action will help reduce incidences of flooding, which will result in improved conditions and less hazards from floodwaters, such as mold in buildings, pollutants in runoff and floodwaters, and potential sewer overflows from flood events, supporting Goal 6 to support the needs of residents to live in a cleaner environment and Goal 9 relative to water quality. It also is in keeping with Goal 13 relative to potential health emergencies, such as extreme weather events.

5. Bridgeport Values Nature

   Bridgeport's natural resources are identified as an important asset to the city and the region in this Plan. As stated in *Plan Bridgeport*, the City has an open space system "that includes forests, parks, gardens, wetlands, rivers, ponds, lakes, and waterfront areas including harbors and Long Island Sound. While over 86% of Bridgeport's land is developed, the remaining 14% is comprised of a rich diversity of open space".

   Elton Rogers Park and Svihra Parks will remain as passive recreational spaces available to those in the local neighborhoods as part of this Project and the Project will reduced flooding impacts and provide for better management of flood flows, in keeping with this principle.

6. Bridgeport is a Regional Center

   Bridgeport is the largest city in Connecticut and one of the largest along Long Island Sound. It is proximal to New York City, New Jersey, and Boston. Transportation infrastructure from Boston to Washington D.C., including Interstate 95, Amtrak rail lines, and the Port Jefferson Ferry terminal, run through Bridgeport. Bridgeport's location offers significant economic, educational, governmental, and institutional assets to the region.

   The City attracts many visitors and businesspeople, but has vulnerabilities related to its coastal location. The reduction in flooding within the Project Area from the Proposed Action will improve resilience and protection of the city's businesses and assets, and ensure continued accessibility to transportation routes, all supporting the City's growth as a regional center.

<u>City of Bridgeport, Dept. of Public Facilities Storm Water Management Manual (2019)</u>

The City has established this design manual in accordance with the City's Storm Water Management Regulations to provide standards to be used to prepare plans that will be reviewed within the Subdivision Regulations, Zoning Regulations and the Inland Wetland-Watercourse Regulations of the City of Bridgeport. The standards within the manual are a guide

to bring any application to the permitting stage. Discharge of stormwater from private sites is allowable under city ordinances, but the manual's guidelines must be followed to ensure compliance.

The design of the Proposed Action will take into account criteria and policies of the Storm Water Management Manual in its design, such as hydrologic and hydraulic design criteria including flow control requirements specific to developments located in flood prone areas, minimum WPCA/engineering standards, redevelopment within flood hazard zones, and the development of operation & maintenance plans for systems to be located in Ox Brook.

Connecticut Metropolitan Council of Governments Regional Plan (2015)

Connecticut is divided into nine planning regions responsible for cooperative planning across areas including land use, transportation, housing, public facilities, open space, environment, energy and economic development. Connecticut's planning regions provide a means for municipalities to address common interests and coordinate with state and federal plans and programs.

MetroCOG, which covers Bridgeport, Easton, Fairfield, Monroe, Stratford and Trumbull is the lead regional agency of the Comprehensive Economic Development (CED) Strategy and administers, coordinates and oversees the planning process for the region with each municipality's planning department. Regional Planning, Environmental Planning, Economic Development, Land Use and Zoning, and Emergency Management are all areas for which MetroCOG develops comprehensive strategies. This information is made publicly available via its website: https://ctmetro.org/.

The MetroCOG's most recent Regional Plan is *Reconnect 1 Region: A Comprehensive Plan for the MetroCOG Region* (2015). This plan cites three main principles as a vision for the region's future: Reconnected, Revitalized, and Resilient. Reconnected focuses on joint efforts between municipalities and transit and transportation services. Revitalized focuses on redevelopment of downtown areas and brownfields, with education, neighborhood, and industrial improvements. Resilient focuses on housing, employment, sense of place, natural systems, natural hazard resilience, and energy and resource efficiency for industries and construction.

The Proposed Action is consistent with MetroCOG's Comprehensive Economic Development Strategy because the project is a flood control project that will reduce flooding through infrastructure improvements in areas with vulnerable populations and protect residences and businesses within the community, consistent with Section 4.4C of the Regional Plan. The Project is also consistent with Section 8.3 of the Regional Plan regarding Hazard Mitigation Strategies, including increased drainage capacity and protecting roadways/infrastructure.

2019 Natural Hazard Mitigation Plan Update, 2019

MetroCOG produced a multi-jurisdictional Natural Hazard Mitigation Plan Update (HMPU) for the region (2019), which was approved by FEMA August 9, 2019. As stated in the document, the plan's purpose is "to reduce the loss of life, personal injury and damage to property, infrastructure and natural, cultural and economic resources from a natural disaster in the Greater Bridgeport Region". The plan discusses the possible impact from hurricanes, inland and coastal flooding, sea level rise, winter storms, dam failures, among other hazards. A Hazard Mitigation Workshop with the public occurred on March 12, 2019, with a goal from this workshop relative to Ox Brook stated as follows: "Look to aggregate engineering studies and other resource materials for all inland rivers and waterways across City (i.e. Ox Brook, Rooster River, Island Brook, etc.) and initiate a comprehensive identification, assessment, and prioritization of flood reduction projects that integrate immediate and longer-term vulnerabilities and strengths of infrastructure such as bridges and culverts." Ox Brook is cited as an area of particular concern due to channelization and constrictions that result in flooding. The plan also cites acquisition of land for a detention area (the parcel next to Svihra Park) as a priority, as well as implementation of the Ox Brook Flood Control Project.

3.3.5.2 Consistency with State Plans

Revised Draft of the State Plan of Conservation and Development: The Plan for Connecticut 2018-2023 and Locational Guide Map

The existing State Plan of Conservation and Development (C&D) covers the period from 2013-2018. A draft plan is also available for the period 2018-2023, which is expected to be considered by the legislature for approval in their 2021 session. Both plans are discussed herein because of the timing of this EIE.

The Office of Policy and Management, in accordance with Connecticut General Statutes Section 16a-29 has developed the documents *Conservation & Development Policies: The Plan for Connecticut 2013-2018* (2013) and *Conservation & Development Policies: The Plan for Connecticut 2018-2023* (2019 revision) which outline the state's overall planning framework. In addition to the State C&D Plan requirements, CGS Sections 8-23 and 8-35a provide requirements for municipalities and regional planning organizations to prepare and update their plans of conservation and development at least once a decade. While there is no statutory requirement for a municipal plan to be consistent with either the regional plan or the State C&D Plan, the regional plans must "note any inconsistencies" with the growth management policies in the State C&D Plan. A new provision of CGS Section 8-23(b) requires each municipality to have a formally adopted plan in place, which is no more than ten years old on or after July 1, 2014, in order to remain eligible for discretionary state funding (OPM, 2019).

The revised draft plan is very similar to the previous draft but includes provisions for waterfront development and sea level rise, which would not apply to the Proposed Action.

The Recommended Draft 2018-2023 State C&D Plan Locational Guide Map and Priority Funding Areas has been developed and is publicly available online through an interactive web application. Elton Rogers Park and Svihra Park are shown as "Legally Protected Land." Much of the Ox Brook corridor from Main St. to Lincoln Blvd. is labeled as "Balanced Priority Funding Area" and areas and neighborhoods surrounding the brook are identified as "Priority Funding Areas". These areas are all similarly identified in the existing mapping as well.

There are six main growth principles:

1. Redevelop and revitalize regional center and areas with existing or currently planned physical infrastructure
2. Expand housing opportunities and design choices to accommodate a variety of household types and needs
3. Concentrate development around transportation nodes and along major transportation corridors to support the viability of transportation options
4. Conserve and restore the natural environment, cultural and historical resources, and traditional rural lands
5. Protect and ensure the integrity of environmental assets critical to public health and safety
6. Promote integrated planning across all levels of government to address issues on a statewide, regional, and local basis

The Proposed Action is consistent with the main principles of this plan because it serves to reduce the effects of flooding within the Project Area and will serve to enhance the priority funding areas as well as the legally protected land by increasing resilience of the city to the impacts of flooding. This will serve to revitalize areas with existing infrastructure within a Regional Center, which Bridgeport is (Principle #1), will protect housing in areas of vulnerable populations (Principle #2), will maintain open space areas in the two parks (Principle #4), and will protect assets by addressing urban areas

with known flooding impacts (Principle #5). The Project does not include new development, so Principle #3 is not applicable, and Principle #6 is more related to the larger broad-scale planning process between communities and is not applicable here.

4.0 CUMULATIVE EFFECTS

Only Phase 1 of the Project has state funding at this time, but the Proposed Action includes all six phases of the Project and has been considered as a single Project for the purposes of CEPA. According to CEPA Regulation Sec. 22a-1a-3(b), cumulative impacts are defined as:

> *Cumulative effects are the effects on the environment which result from the incremental impact of the action when considered with past, present or reasonably foreseeable future actions to be undertaken by the sponsoring or participating agencies. In reviewing an action for its cumulative effects as required by subsection (a) of this section, an agency shall consider that cumulative effects include the incremental effects of similar actions with similar environmental effects and the incremental effects of a sequence of actions undertaken pursuant to an ongoing agency program which may have a significant environmental effect, even though the individual component actions would not. (CEPA Regulations, as amended 9/9/19)*

There are no CT DEEP owned State Parks, State Forests, or Wildlife Management Areas in the Project Area or adjacent, and CT DEEP as the Sponsoring Agency has indicated that they are not aware of any recent, current, or proposed CT DEEP projects in the Project Area or adjacent. As such, there are no anticipated cumulative impacts associated with the Proposed Action.

5.0 UNAVOIDABLE ADVERSE ENVIRONMENTAL IMPACTS

Unavoidable adverse impacts are defined as those that meet the following two criteria:

- There are no reasonably practicable mitigation measures to eliminate the impacts; and
- There are no reasonable alternatives to the Proposed Action that would meet the purpose and need of the action, eliminate the impact, and not cause other or similar significant adverse impacts.

As described in the Section headings addressing "Mitigation," a number of the potential impacts identified for the proposed Project could be mitigated. However, in some cases, project impacts would not be immediately or fully mitigated. As described below, unmitigated adverse impacts to a number of resources have been identified.

5.1 CONSTRUCTION PHASE

Stormwater/Water Resources/Wetlands and Site Ecology: Excavation within the Project Area for construction and utility relocation would increase the potential for erosion and sediment transport during wet weather periods while bare earth is exposed; however, this will be mitigated by implementing a Stormwater Pollution Control and Prevention Plan as required by the Construction Stormwater General Permit.

Transportation: During construction, there would be a temporary increase in truck traffic near the construction areas and at streets and intersections surrounding the work areas. There may be temporary increases in traffic on local streets due to detours around work areas and short-term street closures needed for street crossing work.

Air Quality: Temporary, insignificant impacts to air quality from vehicular emissions, construction equipment, and dust would likely result from construction-related activities.

Noise: During construction of the proposed improvements, there would be short-term increases in noise levels in and around the construction sites.

Light/Shadow and Aesthetics/Viewsheds: There will be a temporary increase in light if and when construction needs to take place during dawn and dusk hours. This will be minimized by adhering to normal working hours (7 AM – 5 PM), but may be unavoidable during the winter months when the amount of sunlight during these working hours is limited. Vegetation removal along work areas may also impact viewsheds temporarily until vegetation can be replaced.

Utilities: Short-term utility disruptions may be needed during construction related to utility relocations at street crossings.

Solid Wastes and Recycling: Construction activities would result in the temporary generation of additional solid waste due to site preparation and demolition including: the removal of surplus soils, utility relocation, and construction material packaging and waste.

Pesticides, Toxic or Hazardous Materials: The analysis of previously recorded spills and incidents has revealed that there is a probability of encountering contaminated soils during construction. Construction activities associated with structures or locations with known contamination would need to be conducted under the auspices of a material management plan. Hydrogeologic investigations of subsurface media may be required in areas where soil may be excavated or regarded and

where groundwater may be encountered. Pre-demolition inspections would be required prior to the demolition, renovation, or modification of existing structures that are known or suspected of having hazardous material building components such as lead, asbestos, mercury and others.

Energy: Construction-related energy usage would produce a one-time energy demand including the energy utilized in construction and installation of construction materials.

5.2 OPERATIONAL PHASE

Light/Shadow and Aesthetics/Viewsheds: The proposed flood control improvements would result in impacts in some areas due to vegetation removal making some areas more visible (neighboring homes, etc.) or more susceptible to light intrusion. Replantings will take time to establish and provide privacy and light blocking abilities.

Solid Waste and Recycling: Routine maintenance of the channel(s) and the dam under operational phase would generate periodic solid waste and recyclable "green waste" (e.g., coarse woody debris, etc.) as the channel is periodically cleared of objects that wash, fall, or are thrown into the stream channel thereby creating potential obstructions at constriction points.

Energy: Periodic maintenance of the Ox Brook channel would consume additional energy for maintenance efforts – largely in the form of motor vehicle fuels needed for heavy equipment (e.g., backhoes equipped with grapplers to remove large debris such as downed trees etc., from the stream channels), and during active work on Elton Rogers Dam.

6.0 IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF RESOURCES

The following is a summary of the non-recoverable resources associated with implementation of flood control improvements along Ox Brook. The Proposed Action will result in an irreversible and irretrievable use of vegetation, wildlife habitat, private lands and structures, State-eligible historic resources, certain visual and aesthetic qualities of the corridor, fossil fuels, labor, construction materials, and funding. These commitments of resources are discussed below. For detailed information, see the appropriate subsections of Section 3 in this EIE.

What may be considered irreversible and irretrievable in regard to wetland and watercourse impact is the loss of mature trees along the riparian corridor. Replacement of these trees and their maturation to fully grown sizes would take many years and thus would not occur within the remaining lifetime of some adult citizens living in the corridor.

Implementation of flood control improvements along Ox Brook would require a substantial commitment of state and federal funds for construction and maintenance that is not retrievable (i.e., cannot be offset by collected fees) but is generally considered financially beneficial to the city and its residents on a long- term planning basis in that it reduces the magnitude, scale, and frequency of financial loss associated with property damage impacts, lost productivity, and the commitment of municipal resources following flood events. All of the alternatives requiring construction and potential property acquisition would require the use of these resources to varying degrees. The estimated construction cost for implementation of the Proposed Action is $68 million (October 2021 dollars). The maintenance and operation costs would be borne primarily by Bridgeport taxpayers.

There would be expenditures of fossil fuels, labor, and drainage appurtenances construction materials such as concrete pipe, concrete for channel walls, aggregate, riprap, and bituminous materials. Additionally, labor, energy, and natural resources would be used in the fabrication and preparation of construction materials. These materials are generally not retrievable.

Implementation of the Project will likely generate some surplus soil materials that would not meet reuse criteria without treatment to remediate contaminants of environmental concern. Those soils that pose remediation challenges to meet re-use criteria would need to be disposed of off-site in an appropriate facility in accordance with state and federal regulations resulting in an irretrievable commitment of time, labor, and energy.

The commitment of these resources is based on the concept that local, regional, and state residents will benefit by the reduction in flooding and flood related damages. These benefits will consist of improved health and safety for residents and capacity to meet a higher design level storm flow capacity along Ox Brook and therefore reduce flooding risk within historically flood-prone sectors of the city. It is anticipated that these benefits will outweigh the commitment of resources needed to plan for, respond to, manage, rectify, and mitigate impacts associated with flooding events that occur under existing conditions and those needed to respond to repetitive property losses by residents and businesses.

7.0 SUMMARY OF MITIGATION MEASURES

Table 7-1 summarizes the impact minimization and mitigation measures that would be employed as part of the Proposed Action. These measures offer means of avoiding or minimizing temporary (construction phase) and permanent (operational phase) impacts to the natural, physical, and socioeconomic elements of the Project Area.

Table 7-1. Summary of Impact Minimization & Mitigation Measures

Environmental Element	Impact Minimization & Mitigation Measures	Project Phase	Responsibility
Geology, Soils, Agricultural Soils, Topography	Installation of erosion and sedimentation controls during and after construction, along with General Permit registration and SWPCP	Construction	Contractor
Water Resources	Installation of erosion and sedimentation controls during and after construction, along with General Permit registration and SWPCP. Stabilization of channel sections with appropriate materials based on flows/velocities. Appropriate design using up to date methods and precipitation values to account for climate change. Map change revisions relative to FEMA Flood Hazard Areas post-construction.	Design & Construction	Engineer, City, Contractor
Site Ecology and Wetland Resources	In lieu fee for mitigation, as well as restoration and other mitigation in conjunction with permits	Design & Construction	Engineer, City, Contractor
Endangered, Threatened, and Special Concern Species and Habitats	Not applicable. No identified species per NDDB mapping.	N/A	N/A
Traffic, Bicycle and Pedestrian Access	Construction phase maintenance and protection of traffic plan; noticing, signage and alternative routing during construction.	Construction	Contractor
Air Quality	Minimize construction idling, use of vehicle emission control devices, idling limited to 3 minutes or less, control of fugitive dust	Construction	Contractor, City
Noise	Limiting construction to daytime hours, minimizing construction idling, notice to sensitive receptors in coordination with City	Construction	Contractor, City
Light/Shadow	Limiting construction to daytime hours to extent possible, vegetative mitigation in design process	Construction	Engineer, Contractor
Utilities	Contacting Call Before You Dig, utility coordination meetings and planning, outage protocols	Design & Construction	Contractor
Aesthetics/Viewsheds	Vegetative mitigation as part of design process	Design & Construction	Engineer, Contractor
Solid Waste & Recycling	Proper handing and offsite disposal of construction waste	Construction	Contractor
Cultural Resources	Mitigation for Elton Rogers Park Dam impacts per SHPO	Design & Construction	Engineer, City, Contractor
Pesticides, Toxic or Hazardous Materials	Investigations and proper handling, removal, and disposal of contaminated materials encountered, remediation if needed.	Design & Construction	Engineer, LEP, City, Contractor

Environmental Element	Impact Minimization & Mitigation Measures	Project Phase	Responsibility
Energy Use & Conversion	N/A	N/A	N/A
Public Health & Safety	N/A, overall positive benefit	N/A	N/A
Land Use, Neighborhoods, and Recreational Resources	Trail adjustments in parks if needed	Design & Construction	Engineer, City, Contractor
Population, Employment, Income, Housing and Commercial Properties	Overall positive benefit, Fair market value purchases for any needed acquisitions	Design	City

8.0 POTENTIAL CERTIFICATES, PERMITS, AND APPROVALS

Table 8-1 summarizes the environmental-related certificates, permits and approvals that would likely be required for the construction and operation of projects associated with the Master Plan. Note that for the Section 401 Water Quality Certificate, Pre-Construction Notification (CT General Permit), Non-Consumptive Water Diversion, and for State-issued Inland Wetlands and Watercourses authorizations, the State has a single Land and Water Resources Division (LWRD) License Application, although the authorizations are identified separately below.

Table 8-1. Potential Certificates, Permits and Approvals Required for Ox Brook Master Plan Implementation

Certificate, Permit, or Approval	Reviewing Agency	Comments
Section 404 Authorization	USACE	Required for discharge of dredged or fill materials into Waters of the U.S., including wetlands. Project may be reviewed as a Pre-Construction Notification activity or may require an Individual Permit, pending USACE determination.
401 Water Quality Certificate	CT DEEP	Required by Section 401 of the Clean Water Act for projects affecting wetlands or watercourses.
Non-Consumptive Diversion Permit	CT DEEP	Required for projects which modify or alter surface waters including collection and discharge of runoff from a watershed area of 100 acres or more, and/or relocation, retention, detention, bypass, channelization, piping, culverting, ditching, or damming of waters with a drainage area of 100 acres or more.
Flood Management Certification	CT DEEP	Required for projects receiving state funding that are in or affecting floodplains or natural or man-made storm drainage facilities. Note: To date, only Phase 1 of the Project has state funding.
Dam Safety Repair and Alteration Permit	CT DEEP	Required for projects involving repairs and alterations to dams.
Section 106 Consultation	SHPO	CT DEEP and USACE permits require consultation with the SHPO. A SHPO Letter of No Adverse Effect or development of a Memorandum of Understanding or mitigation plan that satisfies SHPO concerns is needed for these permits.
Inland Wetlands and Watercourses Permit	CT DEEP and the City of Bridgeport Inland Wetlands and Watercourses Agency	Permit required for work in/near wetlands and watercourses. The DEEP Dam Safety and Repair Permit will incorporate inland wetlands and watercourses review and mitigation as an element of its process. For subsequent project phases on non-dam related work, local inland wetlands approvals are anticipated to be needed for any work in resource areas.
Demolition Permit	City of Bridgeport	Required for demolition of buildings, if applicable where an acquisition is needed for Project Phases 2-6.
General Permit for Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (Construction Stormwater General Permit)	CT DEEP	For projects involving greater than one acre of earth disturbance; coverage requires registration and preparation and implementation of a Stormwater Pollution Control Plan.

The following permits may also be needed, depending on the final design elements of Phases 2-6: Soil and Special Waste Disposal (CT DEEP); Groundwater Remediation Wastewater to a Sanitary Sewer (CT DEEP); Demolition Permit (City), Building Permit (City), and other approvals relative to utility outages and minor modifications.

Once various phases of the Project are complete, the City may also wish to pursue community-initiated map revisions (such as a Letter of Map Revision or LOMR) with FEMA to reduce or eliminate flood hazard areas associated with Ox Brook along the Project Area.

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Appendix A – Proposed Action Drawings for Phase 1 and 2001 Kasper Master Plan

(Note that full-size drawings have been reduced for inclusion in this document)

CITY OF BRIDGEPORT, CONNECTICUT

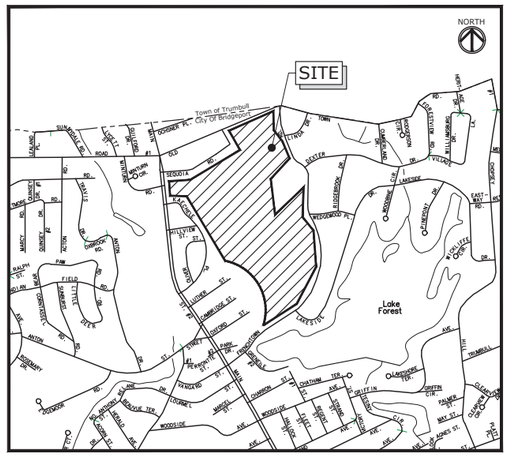
ELTON ROGERS PARK DAM RECONSTRUCTION

CTDEEP DAM ID #1512

DAM CONSTRUCTION PERMIT SUBMISSION

JUNE 24, 2019

LIST OF DRAWINGS	
SHEET NO.	TITLE
	COVER SHEET
C0.00	TYPICAL SECTIONS, GENERAL NOTES, ABBREVIATIONS AND LEGEND
C1.00	EXISTING CONDITIONS PLAN
C1.10	EXISTING CONDITIONS ENLARGEMENT
C1.20	SUBSURFACE EXPLORATION LOGS
C2.00	SITE PREPARATION PLAN
C3.00	INDEX PLAN
C3.10	OUTLET AREA ENLARGEMENT
C3.11	PRIMARY DAM ENLARGEMENT
C3.20	NORTHEAST AREA ENLARGEMENT
C4.00	CONSTRUCTION PHASING PLAN
C4.10	SEDIMENT AND EROSION CONTROL - PHASE 1
C4.20	SEDIMENT AND EROSION CONTROL - PHASE 2A & 2B
C4.30	SEDIMENT AND EROSION CONTROL - PHASE 3
C4.40	SEDIMENT AND EROSION CONTROL - PHASE 4
C4.50	SEDIMENTATION & EROSION CONTROL NOTES, NARRATIVE & DETAILS
C4.51	SEDIMENTATION & EROSION CONTROL DETAILS
C5.00	CROSS SECTIONS
C6.00	SITE DETAILS
C6.10	SITE DETAILS
C7.00	WETLAND IMPACTS
C7.10	WETLAND PLANTING PLAN OVERVIEW
C7.11	WETLAND PLANTING ENLARGEMENT PLAN - DAM AREA
C7.12	WETLAND PLANTING ENLARGEMENT PLAN - STORAGE EXPANSION AREA
S1.00	STRUCTURAL GENERAL NOTES AND DETAILS
S2.00	SPILLWAY PLAN AND ELEVATION
S2.10	SPILLWAY WALL ELEVATIONS AND FOUNDATION PLAN
S2.20	SPILLWAY WALL SECTIONS
S2.30	SPILLWAY WALL SECTIONS
S3.00	PEDESTRIAN BRIDGE OVER SPILLWAY
S3.10	SPILLWAY BRIDGE SECTIONS AND DETAILS
S4.00	OUTLET CONTROL STRUCTURE DETAILS
S4.10	OUTLET CONTROL STRUCTURE DETAILS
S4.20	OUTLET CONTROL STRUCTURE DETAILS



LOCATION MAP
SCALE: 1"=1000'

SCALE IN FEET
0 1000' 2000'
GRAPHIC SCALE

PREPARED BY:
Tighe&Bond
www.tighebond.com
1000 Bridgeport Avenue
Suite 320
Shelton, CT 06484
(203) 712-1100

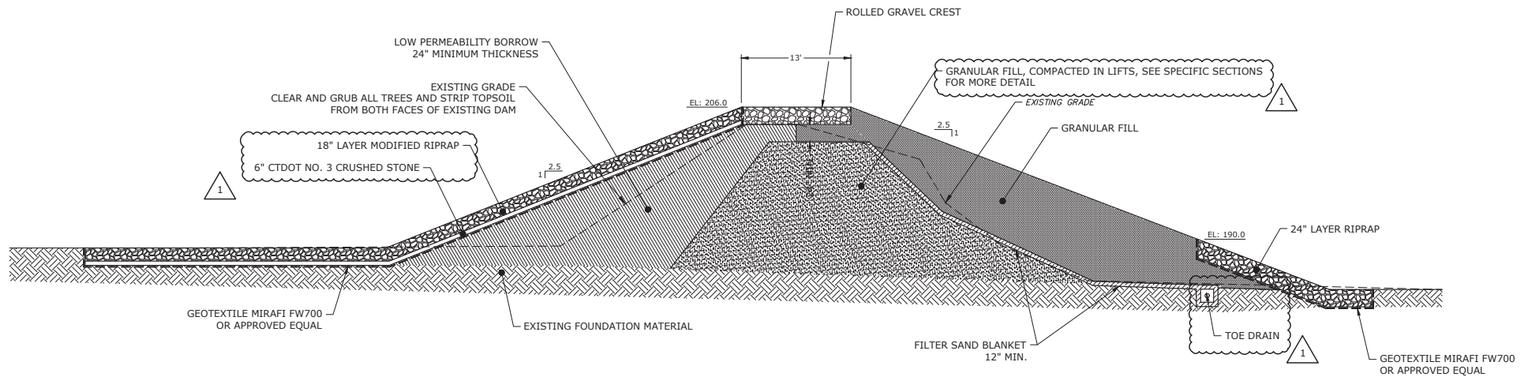
DANA HUFF, P.E.

JOSEPH A. CANAS, P.E.

PREPARED FOR:
CITY OF BRIDGEPORT

COMPLETE SET 34 SHEETS

Jun 17, 2019 - 11:23am Plotted By: Canas1
Tighe & Bond, Inc. J:\JOB\B0694\Drawing\Sheet\Design\B0694-C-000-COVR.dwg



TYPICAL SECTION
SCALE: 1" = 8'

SCALE IN FEET
0 8' 16'
GRAPHIC SCALE

GENERAL NOTES

1. THE 90% DESIGN DRAWINGS ARE FOR DISCUSSION PURPOSES ONLY AND SHALL NOT BE USED FOR CONSTRUCTION.
2. ALL ELEVATIONS SHOWN ARE IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. EXISTING CONDITIONS INFORMATION IS COMPILED FROM CITY OF BRIDGEPORT GEOGRAPHIC INFORMATION SYSTEMS AND SURVEY INFORMATION PROVIDED BY PEREIRA ENGINEERING, SHELTON, CONNECTICUT.
4. TREE LOCATIONS AND SIZES SHOWN ARE TO BE VERIFIED BY THE CONTRACTOR IN THE FIELD. ALL TREES, WHETHER SHOWN OR NOT, CONFLICTING WITH THE WORK SHALL BE REMOVED AND PAID FOR AS PROVIDED FOR IN THE SPECIFICATIONS.
5. THE ACCURACY AND COMPLETENESS OF SUBSURFACE INFORMATION SHOWN ON THESE PLANS IS NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE FOR THEMSELF, PRIOR TO BIDDING, THE LOCATIONS AND ELEVATIONS OF ALL UTILITIES WHICH SHALL AFFECT THEIR CONSTRUCTION, THE CONTRACTOR MUST ADEQUATELY SUPPORT ALL UTILITIES AND SHALL BE RESPONSIBLE FOR ALL DAMAGE TO THESE LINES CAUSED BY THEIR OPERATIONS.
6. THE CONTRACTOR SHALL CONTACT THE TOLL FREE "CALL BEFORE YOU DIG" PHONE NUMBER 1-800-422-4455 OR 811, TWO BUSINESS DAYS BEFORE ANY EXCAVATION OCCURS.
7. PROPERTY LINES SHOWN ARE BASED UPON THE BEST AVAILABLE INFORMATION AND EXISTING MONUMENTS FOUND IN THE FIELD ARE T2 ACCURACY.
8. REINFORCED CONCRETE PIPE SHALL BE CLASS IV UNLESS OTHERWISE NOTED.
9. ANY EXISTING FEATURES DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE, AS ORDERED BY THE ENGINEER.
10. WETLANDS IDENTIFIED AND FLAGGED BY MATTHEW DAVISON, PSS, PWS, CPESC OF TIGHE & BOND.
11. ALL SURFACES NOT OTHERWISE TREATED WITH A SPECIFIED SURFACE TREATMENT SHALL BE SEEDED WITH NEW ENGLAND WETLAND PLANTS EROSION CONTROL/RESTORATION MIX.

ABBREVIATIONS

ALUM	ALUMINUM	NO.	NUMBER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	O.C.	ON CENTER
		OD	OUTSIDE DIAMETER
BIT	BITUMINOUS	OSHA	OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION
BW	BOTTOM OF WALL ELEVATION		
CB	CATCH BASIN	PE	PROFESSIONAL ENGINEER
CM/S	CENTIMETERS PER SECOND	PG	PAGE
CONC	CONCRETE	PSI	POUNDS PER SQUARE INCH
CPESC	CERTIFIED PROFESSIONAL IN SEDIMENT & EROSION CONTROL	PSS	PROFESSIONAL SOILS SCIENTIST
		PWS	PROFESSIONAL WETLAND SCIENTIST
DIA	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DIP	DUCTILE IRON PIPE	R.O.W.	RIGHT-OF-WAY
EL.	ELEVATION	SAN	SANITARY
ELEV	ELEVATION	SF	SQUARE FEET
EXIST	EXISTING	TF	TOP OF FRAME
EW	ENDWALL	TW	TOP OF WALL ELEVATION
FT.	FOOT/FEET	TYP	TYPICAL
GS ELEV.	GROUND SURFACE ELEVATION	V	VERTICAL
H	HORIZONTAL	VERT. FT.	VERTICAL FEET
HW	HEADWALL	VOL	VOLUME
ID	INSIDE DIAMETER	W	WIDE
IN.	INCHES	WF	WETLAND FLAG
IN^2	INCHES SQUARED	WT	WEIGHT
INV	INVERT		
L	LONG	AASHTO	ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
LB.	POUND		
LBS.	POUNDS	CFR	CODE OF FEDERAL REGULATIONS
LF	LINEAR FEET		
MAX	MAXIMUM		
MIN	MINIMUM		
MH	MANHOLE		
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988		
N/F	NOW OR FORMERLY		

LEGEND:

- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN CATCH BASIN
- PROPOSED STORM DRAIN LINE
- B-XX — EXISTING BORING LOCATION
- PROPERTY LINE
- XXX — PROPOSED CONTOUR
- 185 — EXISTING CONTOUR
- WF 2 — WETLAND FLAG & BOUNDARY
- WETLAND AREA
- WB WB WB — WETLAND UPLAND REVIEW AREA
- EXISTING STONE WALL
- X / C.XX — CROSS-SECTION IDENTIFIER
- X / C.XX — ELEVATION IDENTIFIER
- X / C.XX — DETAIL IDENTIFIER

MATERIAL SPECIFICATIONS:

GRANULAR FILL. GRANULAR FILL SHALL CONSIST OF INERT MATERIAL THAT IS HARD, DURABLE STONE AND SAND, FREE FROM LOAM AND CLAY, SURFACE COATINGS AND DELETERIOUS MATERIALS. THE COARSE AGGREGATE SHALL HAVE A PERCENTAGE OF WEAR, BY THE LOS ANGELES ABRASION TEST, OF NOT MORE THAN 50.

GRANULAR FILL SHALL CONFORM TO THE FOLLOWING:

SIEVE SIZE	PERCENT PASSING BY WEIGHT	
	MIN.	MAX.
⅔ LOOSE LIFT THICKNESS	100	--
NO. 10	30	95
NO. 40	10	70
NO. 200	0	15

LOW PERMEABILITY BORROW - LOW PERMEABILITY SOIL SHALL BE FREE FROM FOREIGN MATERIALS. THE PERMEABILITY SHALL BE NO GREATER THAN $1X10^{-6}$CM/S. AT 95% COMPACTION. LOW PERMEABILITY MATERIAL SHALL BE CONSISTENT WITH ONE OF THE FOLLOWING USCS DESIGNATIONS:

GC - CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES.
GM - SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
SC - CLAYEY SANDS, SAND-CLAY MIXTURES.
SM - SILTY SANDS, SAND-SILT MIXTURES.
ML - INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY.
MH - INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS.
CH - INORGANIC CLAYS OF HIGH PLASTICITY INDEX, FAT CLAYS
CL - INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY INDEX, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS LEAN CLAYS.

ROLLED GRAVEL - MATERIALS FOR THIS ITEM SHALL CONSIST OF SOUND, TOUGH, DURABLE PARTICLES OF BANK OR CRUSHED GRAVEL, OR RECLAIMED MISCELLANEOUS AGGREGATE, OR MIXTURES THEREOF WITH THE RESULTANT UNIFORM BLEND CONTAINING NO MORE THAN 2% BY WEIGHT (MASS) OF ASPHALT CEMENT. THE MATERIALS SHALL CONSIST OF SOUND, TOUGH, DURABLE PARTICLES OF BANK OR CRUSHED GRAVEL. ALL MATERIALS SHALL BE FREE FROM THIN OR ELONGATED PIECES, LUMPS OF CLAY, LOAM, OR VEGETABLE MATTER. IT SHALL MEET GRADING "A" EXCEPT THAT THE TOP COURSE OF THE ROLLED BANK GRAVEL SURFACE SHALL CONFORM TO GRADING "C."

	A	B	C
SQUARE MESH SIEVES	PERCENT PASSING BY WEIGHT (MASS)		
PASS 5 INCH (125 MM)		100	
PASS 3 1/2 INCH (90 MM)	100	90-100	
PASS 1 1/2 INCH (37.5 MM)	55-100	55-95	100
PASS 3/4 INCH (19 MM)			45-80
PASS 1/4 INCH (6.3 MM)	25-60	25-60	25-60
PASS #10 (2.0 MM)	15-45	15-45	15-45
PASS #40 (425 MM)	5-25	5-25	5-25
PASS #100 (150 MM)	0-10	0-10	0-10
PASS #200 (75 MM)	0-5	0-5	0-5

STANDARD RIPRAP - MATERIALS FOR THIS ITEM SHALL CONSIST OF SOUND, TOUGH, DURABLE AND ANGULAR ROCK, FREE FROM DECOMPOSED STONES OR OTHER DEFECTS IMPAIRING ITS DURABILITY. THE SIZE OF A STONE AS HEREINAFTER SPECIFIED SHALL BE ITS LEAST DIMENSION. BROKEN CONCRETE OR ROUNDED STONES ARE NOT ACCEPTABLE.

THIS MATERIAL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

a) NOT MORE THAN 15% OF THE RIPRAP BY WEIGHT SHALL BE SCATTERED SPALLS AND STONES LESS THAN 6 INCHES IN SIZE.

b) NO STONE SHALL BE LARGER THAN 30 INCHES IN SIZE, AND AT LEAST 75% OF THE WEIGHT SHALL BE STONES AT LEAST 15 INCHES IN SIZE.

FILTER SAND. FILTER SAND SHALL BE FREE FROM ICE AND SNOW, ROOTS, SILT, CLAY, LOAM, SHALE, AND OTHER DELETERIOUS OR ORGANIC MATTER. FILTER SAND SHALL CONFORM TO THE QUALITY REQUIREMENTS OF ASTM C33, AND SHALL CONFORM TO THE FOLLOWING GRADATION REQUIREMENTS:

SIEVE SIZE	PERCENT PASSING BY WEIGHT	
	MIN.	MAX.
½"	100	--
⅜"	85	100
#4	60	100
#16	35	80
#50	10	55
#100	2	10
#200	0	2

INTERMDIATE RIPRAP. MATERIALS FOR THIS ITEM SHALL CONSIST OF SOUND, TOUGH, DURABLE AND ANGULAR ROCK, FREE FROM DECOMPOSED STONES OR OTHER DEFECTS IMPAIRING ITS DURABILITY. THE SIZE OF A STONE AS HEREINAFTER SPECIFIED SHALL BE ITS LEAST DIMENSION. BROKEN CONCRETE OR ROUNDED STONES ARE NOT ACCEPTABLE.

STONE SIZE	% OF THE WEIGHT
18 IN	0
10 - 18 IN	30 - 50
6 - 10 IN	30 - 50
4 - 6 IN	20 - 30
2 - 4 IN	10 - 20
< 2 IN	0 - 10

MODFIIED RIPRAP. MATERIALS FOR THIS ITEM SHALL CONSIST OF SOUND, TOUGH, DURABLE AND ANGULAR ROCK, FREE FROM DECOMPOSED STONES OR OTHER DEFECTS IMPAIRING ITS DURABILITY. THE SIZE OF A STONE AS HEREINAFTER SPECIFIED SHALL BE ITS LEAST DIMENSION. BROKEN CONCRETE OR ROUNDED STONES ARE NOT ACCEPTABLE.

STONE SIZE	% OF THE WEIGHT
10 IN	0
6 - 10 IN	20 - 50
4 - 6 IN	30 - 60
2 - 4 IN	30 - 40
1 - 2 IN	10 - 20
< 1 IN	0 - 10

Tighe&Bond
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1000 Bridgeport Avenue
Suite 320
Shelton, CT 06484
(203) 712-1100

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION
1	06/24/19	DAM SAFETY COMMENTS

PROJECT NO: B0694
FILE: B0694-C-000-GENR.dwg
DRAWN BY:
CHECKED: JAC
APPROVED: DH

TYPICAL SECTIONS, GENERAL NOTES, ABBREVIATIONS AND LEGEND

SCALE: AS NOTED

C0.00

Last Saved: 5/28/2019
Plotted On: Jun 17, 2019-11:24am By: Canas
Tighe & Bond J:\B0694\Drawings\Sheet Design\B0694-C-000-GENR.dwg

06/17/2019



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SCALE IN FEET
0 100' 200'
GRAPHIC SCALE

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION
1	02/15/19	REMOVED EXTRA STORAGE AREA

PROJECT NO:	B0694
FILE:	B0694-C-000-STAGE.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

REGULATED ACTIVITIES MAP

SCALE: 1" = 100'

E1.00

06/17/2019

Last Saved: 7/19/2018
Plotted: 06/17/2019 11:24am By: Canas
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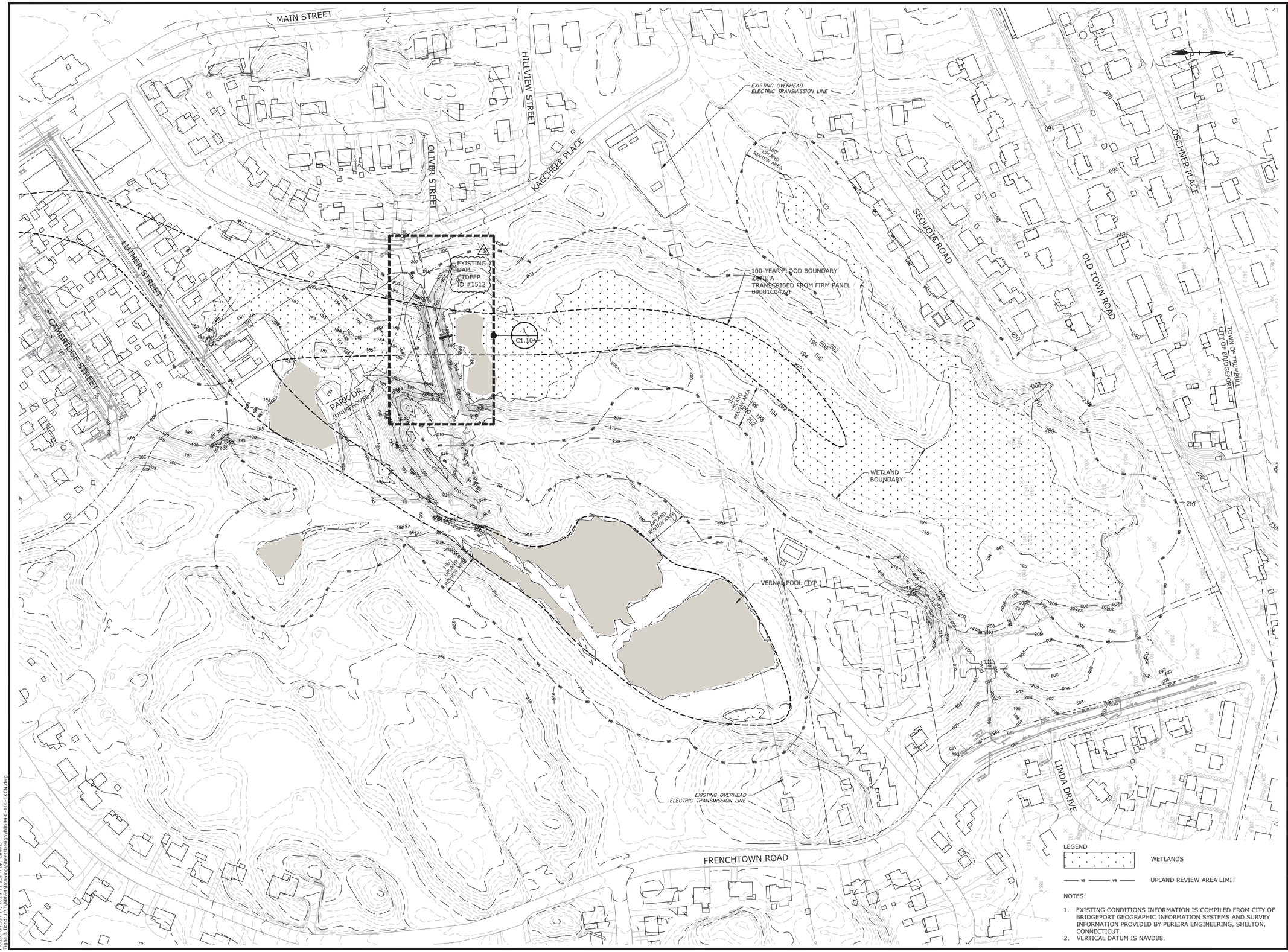

LEGEND

WETLANDS

UPLAND REVIEW AREA LIMIT

NOTES:

1. EXISTING CONDITIONS INFORMATION IS COMPILED FROM CITY OF BRIDGEPORT GEOGRAPHIC INFORMATION SYSTEMS AND SURVEY INFORMATION PROVIDED BY PEREIRA ENGINEERING, SHELTON, CONNECTICUT.
2. VERTICAL DATUM IS NAVD88.

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SCALE IN FEET
0 100' 200'
GRAPHIC SCALE

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-C-100-EXCN.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

EXISTING CONDITIONS PLAN

SCALE: 1" = 100'

C1.00

06/17/2019

Last Saved: 5/6/2019
Plotted On:Jun 17, 2019-11:25am By: CanasJ
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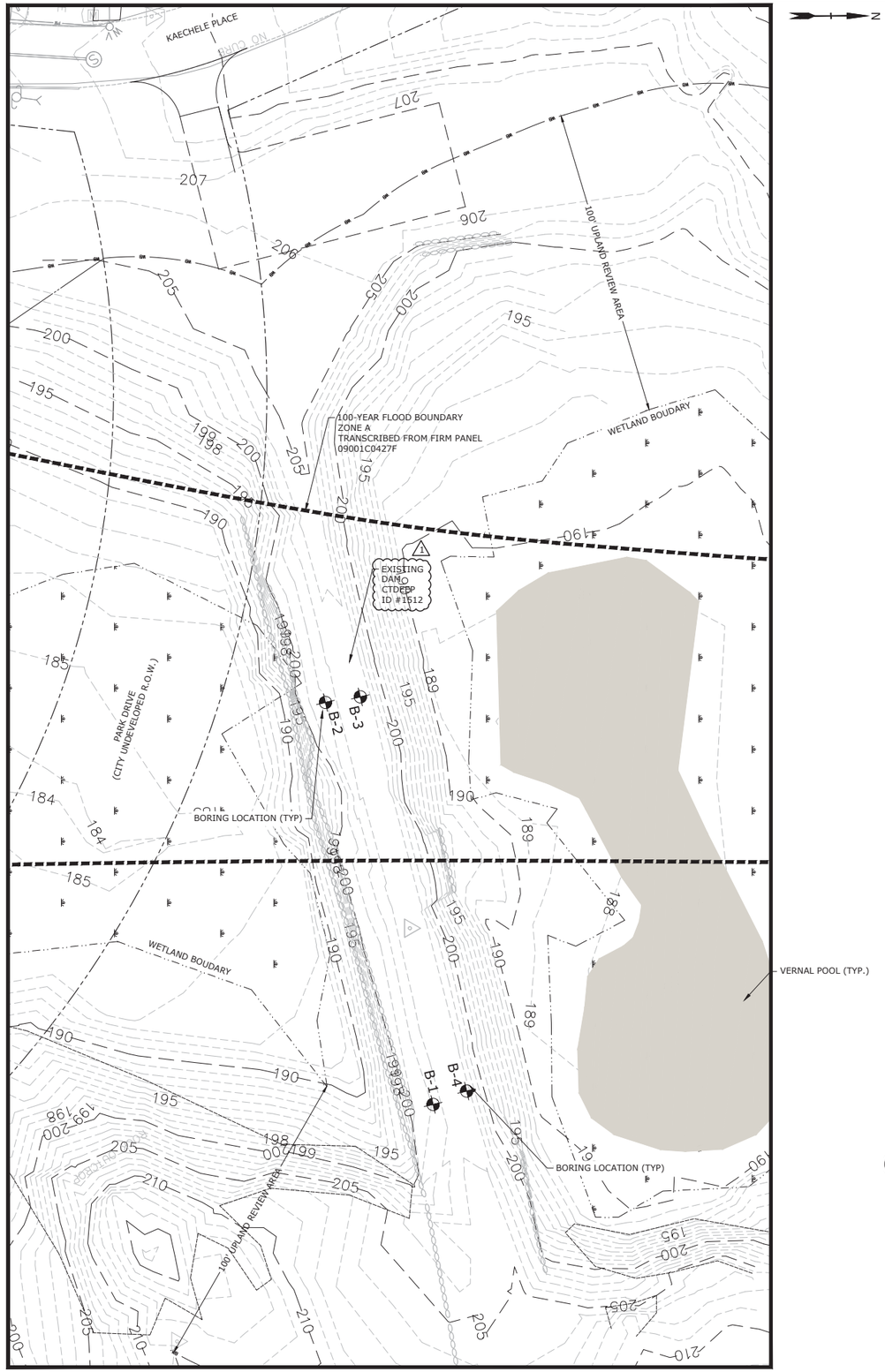

N

1 **EXISTING CONDITIONS ENLARGEMENT**

LEGEND

WETLANDS

UPLAND REVIEW AREA LIMIT

NOTES:

1. EXISTING CONDITIONS INFORMATION IS COMPILED FROM CITY OF BRIDGEPORT GEOGRAPHIC INFORMATION SYSTEMS AND SURVEY INFORMATION PROVIDED BY PEREIRA ENGINEERING, SHELTON, CONNECTICUT.
2. VERTICAL DATUM IS NAVD88.

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SCALE IN FEET
0 20' 40'
GRAPHIC SCALE

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION
1	06/24/19	DAM SAFETY COMMENTS

PROJECT NO:	B0694
FILE: B0694-C-100-EXCN.dwg	
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

EXISTING CONDITIONS ENLARGEMENT PLAN

SCALE: 1" = 20'

C1.10

06/17/2019

Last Saved: 5/6/2019
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Tighe&Bond
Consulting Engineers

Project: Elton Rodgers Park Dam
Location: Bridgeport, CT
Client: City of Bridgeport

Boring No. B-1
Page 1 of 2
File No. B-0694
Checked by: Z. Baum/C. Haker

Drilling Co.: General Borings
Foreman: Bob Poynton
T&B Rep.: Chris Dubuque
Date Start: 09/09/14 End: 09/09/14
Location See Exploration Location Plan
GS. Elev. 201' Datum: NAVD 88

	Casing	Sampler
Type	HW	Split Spoon
I.D./O.D.	4" / 4-1/4"	1-3/8"/2"
Hammer Wt.	300#	140#
Hammer Fall	30"	30"
Other	Cathead	Cathead

Groundwater Readings

Date	Time	Depth	Casing	Sta. Time
9/9/2014	See Note 1			

Depth (ft.)	Casing Blows Per Ft.	Sample No. / Rec. (in)	Sample Depth (ft.)	Blows Per 6"	Sample Description	General Stratigraphy	Notes	Well Construction
5		S1/12	0-2	3-4	S1: Medium dense, light brown, SILT and fine	EMBANKMENT FILL		No Well Installed
				6-7	SAND, trace Gravel			
					Grinding on boulder from 3 ft to 5 ft			
	20	S2/15	5-7	7-4	S2: Medium dense, light brown, SILT and fine SAND, trace Gravel			
	150			7-60	Grinder bit used from 6.5 ft to 7.5 ft to clear boulder			
	20							
10	52				Grinder bit used from 9 ft to 10 ft.			
	31	S3/15	10-12	13-19	S3: Medium dense, light brown, SILT and			
	45			19-16	fine to medium SAND, trace Gravel			
	42							
	30							
15	41							
	33	S4&4A/12	15-17	20-24	S4: Top 7" Dense, light brown, SILT and fine to medium SAND, trace Gravel			
	49			18-14	S4A: Bottom 5" Dense, gray to light brown, SILT, some fine to medium Sand			
	47					19.5'		
	70							
20	100				Grinder bit used 19.5 ft to 21 ft			
	125					SILTY SAND		
	211/3"	S5/12	21-22.5	60-113	S5: Very dense, gray to brown, fine to medium SAND, some Silt, trace Gravel			
	110			110				
	235/3"				Grinder bit was used 23.25 ft to 24.25 ft			
25	114							
	155	S6/12	25-27	52-65	S6: Very dense, brown, fine to medium SAND, some Silt, trace Gravel			
	212			103-100				
	185							
	215							
30	218							

Notes:
1. Groundwater level, if any, unable to be determined due to drilling method.
2.The top 18" of material was scraped off with the backhoe to create a level working area.

Proportions Used

TRACE (TR.)	0 - <10%
LITTLE (LI.)	10 - <20%
SOME (SO.)	20 - <35%
AND	35 - <50%

Density/Consistency

VERY LOOSE	0-4	VERY SOFT	<2
LOOSE	4-10	SOFT	2-4
MEDIUM DENSE	10-30	MEDIUM	4-8
DENSE	30-50	STIFF	8-15
VERY DENSE	>50	VERY STIFF	15-30
		HARD	>30

Tighe&Bond
Consulting Engineers

Project: Elton Rodgers Park Dam
Location: Bridgeport, CT
Client: City of Bridgeport

Boring No. B-1
Page 2 of 2
File No. B-0694
Checked by: Z. Baum/C. Haker

Depth (ft.)	Casing Blows Per Ft.	Sample No. / Rec. (in)	Sample Depth: (ft.)	Blows Per 6"	Sample Description	General Stratigraphy	Notes	Well Construction
		S7&7A/8	30-31.7	36-100	S7: 5" Very dense, brown, fine to medium SAND, some Silt	30.5'		No Well Installed
					S7A: 3" Very dense, light gray ,completely weathered bedrock			
		C1/60	31.7-36.7	3 min	C1:Hard, fresh, slightly fractured, fine to medium	Bedrock		
				3 min	grained, light gray, Shelton Member of Trap Falls			
35				3 min	Formation, GNEISS, close, steep joints			
				4 min	RQD=97%			
				4 min				
					Bottom of Exploration at 36.7 feet			
40								
45								
50								
55								
60								
65								

Notes:

Tighe&Bond
Consulting Engineers

Project: Elton Rodgers Park Dam
Location: Bridgeport, CT
Client: City of Bridgeport

Boring No. B-2
Page 1 of 1
File No. B-0694
Checked by: Z. Baum/C. Haker

Drilling Co.: General Borings
Foreman: Bob Poynton
T&B Rep.: Chris Dubuque
Date Start: 09/09/14 End: 09/10/14
Location See Exploration Location Plan
GS. Elev. 202' Datum: NAVD 88

	Casing	Sampler
Type	HW	Split Spoon
I.D./O.D.	4" / 4-1/4"	1-3/8"/2"
Hammer Wt.	300#	140#
Hammer Fall	30"	30"
Other	Cathead	Cathead

Groundwater Readings

Date	Time	Depth	Casing	Sta. Time
9/10/2014	See Note 1			

Depth (ft.)	Casing Blows Per Ft.	Sample No. / Rec. (in)	Sample Depth (ft.)	Blows Per 6"	Sample Description	General Stratigraphy	Notes	Well Construction
5		S1/6	0-2	4-7	S1: Medium dense, light brown, SILT and fine	EMBANKMENT FILL		No Well Installed
				7-8	SAND, trace Gravel			
	33	S2/6	5-7	19-16	S2: Dense, light brown, SILT and fine SAND, trace Gravel			
	26			15-13	1" thick Dark Brown, SILT and fine SAND lens			
	26				at 6 feet			
	39							
10	25							
	45	S3/8	10-12	14-14	S3: Dense, brown, fine to medium SAND and SILT,			
	55			18-34	trace Gravel			
	56							
	28	P1	13	N/A	Failing head permeability test.			
15	41				Hydraulic conductivity = 4 x 10^{-6} cm/s			
	9	S4/0	15-17	17-27	S4: No recovery			
	12			15-30				
	37				17.5 ft. may have drilled through wood			
	53				18 ft. wash water turned gray	18.5'		
	27				19 ft. wash water turned back to brown			
20	19	S5/12	20-22	8-18	S5: Dense, gray, fine to medium SAND, trace Gravel, trace Silt	SAND		
	54			24-38				
	90							
	339/11"				Grinder bit used from 23.9 ft to 25 ft	23.5'		
	105							
25	59	S6/6	25-26	40-105	S6: Very dense, red brown, SAND and SILT, trace gravel	SAND and SILT		
	285/11"				Grinder bit used from 27.5 ft to 28.5 ft			
		S7/0	28.5	50/0"	S7: Split spoon was bouncing at 28.5'			
30					Bottom of Exploration at 28.5 feet due to refusal			

Notes:
1. Groundwater level, if any, unable to be determined due to drilling method.
2. The top 12" of material was scraped off with the backhoe to create a level working surface.

Proportions Used

TRACE (TR.)	0 - <10%
LITTLE (LI.)	10 - <20%
SOME (SO.)	20 - <35%
AND	35 - <50%

Density/Consistency

VERY LOOSE	0-4	VERY SOFT	<2
LOOSE	4-10	SOFT	2-4
MEDIUM DENSE	10-30	MEDIUM	4-8
DENSE	30-50	STIFF	8-15
VERY DENSE	>50	VERY STIFF	15-30
		HARD	>30

Tighe&Bond
Consulting Engineers

Project: Elton Rodgers Park Dam
Location: Bridgeport, CT
Client: City of Bridgeport

Boring No. B-3
Page 1 of 1
File No. B-0694
Checked by: Z. Baum/C. Haker

Drilling Co.: General Borings
Foreman: Bob Poynton
T&B Rep.: Chris Dubuque
Date Start: 09/10/14 End: 09/11/14
Location See Exploration Location Plan
GS. Elev. 203.0 Datum: NAVD 88

	Casing	Sampler
Type	HW	Split Spoon
I.D./O.D.	4" / 4-1/4"	1-3/8"/2"
Hammer Wt.	300#	140#
Hammer Fall	30"	30"
Other	Cathead	Cathead

Groundwater Readings

Date	Time	Depth	Casing	Sta. Time
9/11/2014	See Note 1			

Depth (ft.)	Casing Blows Per Ft.	Sample No. / Rec. (in)	Sample Depth (ft.)	Blows Per 6"	Sample Description	General Stratigraphy	Notes	Well Construction
5		S1/12	0-2	5-6	S1: Medium dense, light brown, SILT and SAND, trace Gravel	EMBANKMENT FILL		No Well Installed
				7-8				
		S2/10	5-7	5-26	S2: Very dense, light brown, SILT and SAND, some Gravel			
				34-32				
	53	S3/13	7-9	30-25	S3: Very dense, light brown, GRAVEL, some fine to medium SAND, little Silt			
10	64			27-23				
	83							
		S4/8	10-12	20-25	S4: Dense, red brown, fine to medium SAND and SILT, some Gravel			
				23-19				
	22	S5/12	12-14	20-13	S5: Dense, red brown, fine to medium SAND and SILT, some Gravel			
	20			30-21				
15	22							
	15	S6/11	15-17	10-9	S6: Medium dense, red brown, fine to medium SAND and Clayey SILT, some Gravel, trace Organics (wood & root matter)			
	32			10-7		17'		
	17	S7/12	17-19	7-10	1" light gray, fine to medium SAND in the tip of the split spoon			
	37			28-25	S7: Medium dense, light gray, fine to medium SAND, some Silt			
20	76	P1	20	N/A	Failing head permeability test. Hydraulic conductivity = 2 x 10^{-7} cm/s			
	15	S8/10	20-22	9-9	S8: Medium dense, light gray, fine to medium SAND, some Silt, trace Gravel with lens of Clayey			
	26			8-14	SILT, some fine Sand	SILTY SAND		
	23	S9/16	22-24	19-23	S9: Very dense, light gray, fine to medium SAND some Silt, some Gravel			
	57	S9A/16		48-57	S9A: Very dense, light gray, fine to medium SAND, some Silt, some Gravel			
25	145							
	77	S10/12	25-27	54-105	S10: Very dense, light brown, fine to medium SAND, some Silt, some Gravel			
	147			57-78	S11: 4" Very dense, light brown, fine to coarse SAND, some Gravel, little Silt			
	103	S11/8	27-29	44-54	S11A: 4" Very dense, red brown, fine to coarse SAND, some Gravel, little Silt			
	114	S11A/8		100/3"	S12: Grinder bit to 29.3' / Split spoon was bouncing at 29'-3"			
30	170/3"	S12/0	29.3	50/0"	Bottom of Exploration at 29.3 feet due to refusal			

Notes:
1. Groundwater level, if any, unable to be determined due to drilling method.
2. The top 6" of material was scraped off with the backhoe to create a level working surface. B-3 is about 12" higher than B-2 and they are about 15' apart.

Proportions Used

TRACE (TR.)	0 - <10%
LITTLE (LI.)	10 - <20%
SOME (SO.)	20 - <35%
AND	35 - <50%

Density/Consistency

VERY LOOSE	0-4	VERY SOFT	<2
LOOSE	4-10	SOFT	2-4
MEDIUM DENSE	10-30	MEDIUM	4-8
DENSE	30-50	STIFF	8-15
VERY DENSE	>50	VERY STIFF	15-30
		HARD	>30

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Consulting Engineers

Project: Elton Rodgers Park Dam
Location: Bridgeport, CT
Client: City of Bridgeport

Boring No. B-4
Page 1 of 1
File No. B-0694
Checked by: Z. Baum/C. Haker

Drilling Co.: General Borings
Foreman: Bob Poynton
T&B Rep.: Chris Dubuque
Date Start: 09/11/14 End: 09/11/14
Location See Exploration Location Plan
GS. Elev. 203 Datum: NAVD 88

	Casing	Sampler
Type	HW	Split Spoon
I.D./O.D.	4" / 4-1/4"	1-3/8"/2"
Hammer Wt.	300#	140#
Hammer Fall	30"	30"
Other	Cathead	Cathead

Groundwater Readings

Date	Time	Depth	Casing	Sta. Time
9/11/2014	See Note 1			

Depth (ft.)	Casing Blows Per Ft.	Sample No. / Rec. (in)	Sample Depth (ft.)	Blows Per 6"	Sample Description	General Stratigraphy	Notes	Well Construction
5		S1/6	0-2	4-4	S1: Loose, light brown, SILT and fine SAND, trace Gravel, roots	EMBANKMENT FILL		No Well Installed
				3-4				
	27	S2/17	5-7	10-14	S2: Meduim dense, light brown, SILT and fine SAND, trace Gravel			
	39			14-29	1" of red brown, fine SAND and SILT in center of sample			
	63							
10	70							
	13	S3/14	10-12	11-17	S3: Dense, red brown, SILT and fine SAND, trace Gravel			
	36			24-16		18.5'		
	29							
	26					SILT and SAND		
15	25							
	2	S4/2	15-17	13-8	S4: Medium dense, gray brown, SILT and CLAY, some fine SAND			
	11			5-4		21'		
	7	S5/14	17-19	3-3	S5: Loose fine, gray brown, clayey SILT and fine SAND, trace Gravel			
	7			3-4				
	9				S6:8" Dense, gray SILT and fine to medium SAND,			
20		S6&6A/14	20-22	16-20	trace Gravel; S6A: 6" Dense, red brown, fine to			
				26-27	medium SAND, trace Silt	SAND		
		S7/10	22-23.2	25-34	S7: Very dense, brown, fine to coarse SAND, some Gravel, trace Silt			
				110/2"	Bottom of Exploration at 23.2 feet			
25								
30								

Notes:
1. Groundwater level, if any, unable to be determined due to drilling method.

Proportions Used

TRACE (TR.)	0 - <10%
LITTLE (LI.)	10 - <20%
SOME (SO.)	20 - <35%
AND	35 - <50%

Density/Consistency

VERY LOOSE	0-4	VERY SOFT	<2
LOOSE	4-10	SOFT	2-4
MEDIUM DENSE	10-30	MEDIUM	4-8
DENSE	30-50	STIFF	8-15
VERY DENSE	>50	VERY STIFF	15-30
		HARD	>30

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Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION

PROJECT NO: B0694
FILE: B0694-C-100-EXCN.dwg
DRAWN BY: MDS
CHECKED: JAC
APPROVED: DH

SUBSURFACE EXPLORATION LOGS

SCALE: 1" = 20'

C1.20

06/17/2019

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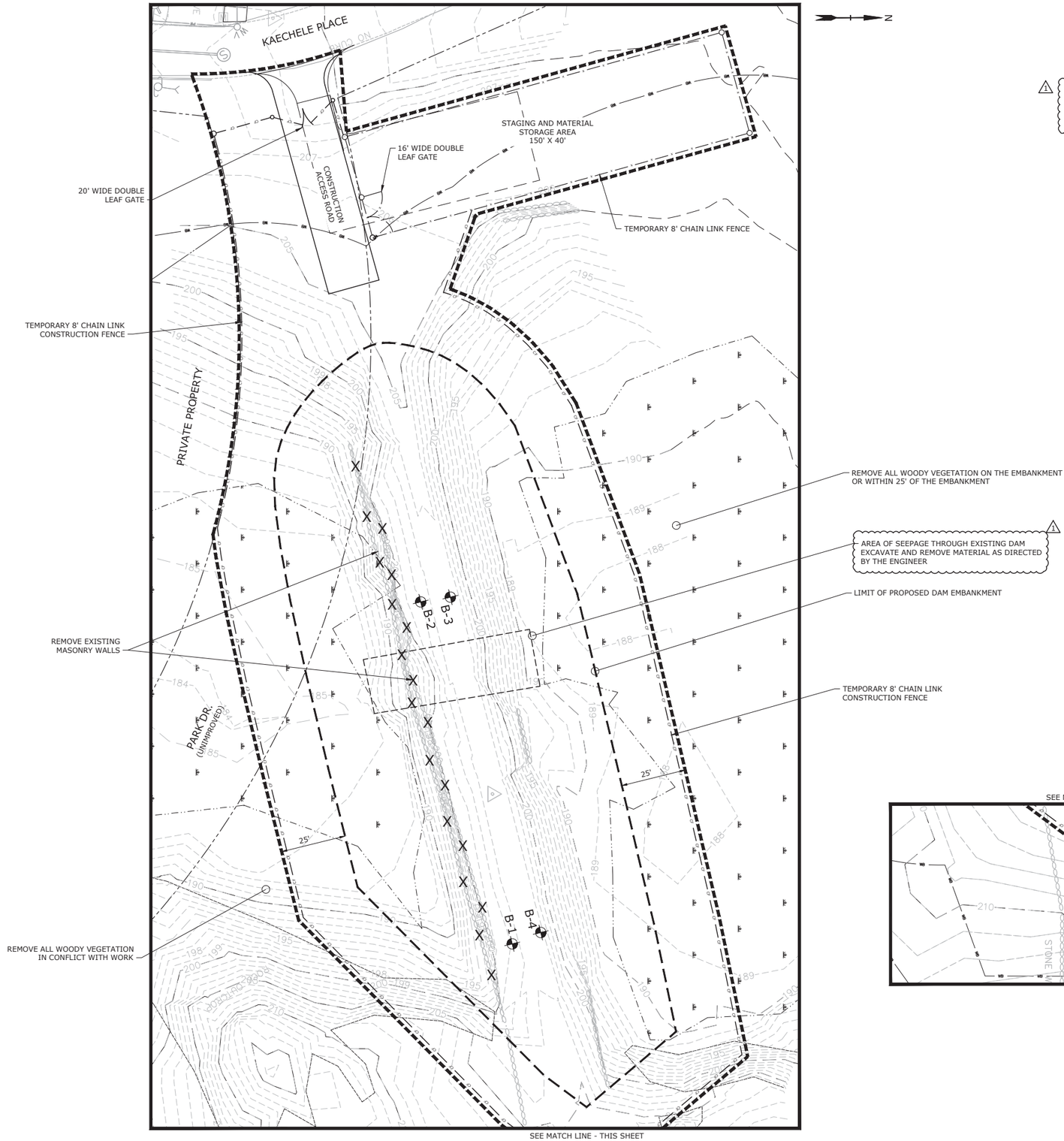

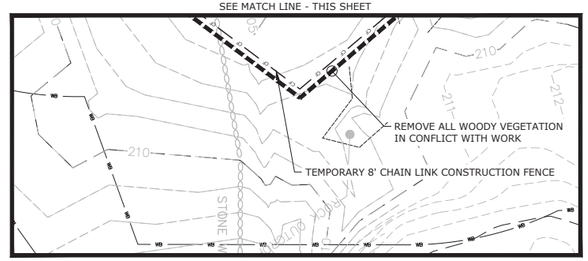

NOTES:

1. EXISTING CONDITIONS INFORMATION IS COMPILED FROM CITY OF BRIDGEPORT GEOGRAPHIC INFORMATION SYSTEMS AND SURVEY INFORMATION PROVIDED BY PEREIRA ENGINEERING, SHELTON, CONNECTICUT.
2. VERTICAL DATUM IS NAVD88.
3. REFER TO SEDIMENTATION AND EROSION DRAWINGS FOR SEQUENCING AND REQUIRED CONTROLS.
4. ORGANIC SOILS AND MATERIALS AND UNSUITABLE MATERIALS BELOW EXISTING GRADE ARE TO BE REMOVED. ENGINEER TO DETERMINE DEPTH OF REMOVAL AND SUITABILITY OF MATERIAL. WHERE SUCH MATERIAL IS REMOVED, IT SHALL BE REPLACED WITH SUITABLE FILL MATERIAL AND COMPACTED AS DIRECTED BY THE ENGINEER.

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Shelton, CT 06484
(203) 712-1100

SCALE IN FEET
0 20' 40'
GRAPHIC SCALE

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION
1	06/24/19	DAM SAFETY COMMENTS

PROJECT NO:	B0694
FILE:	B0694-C-200-PREP.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

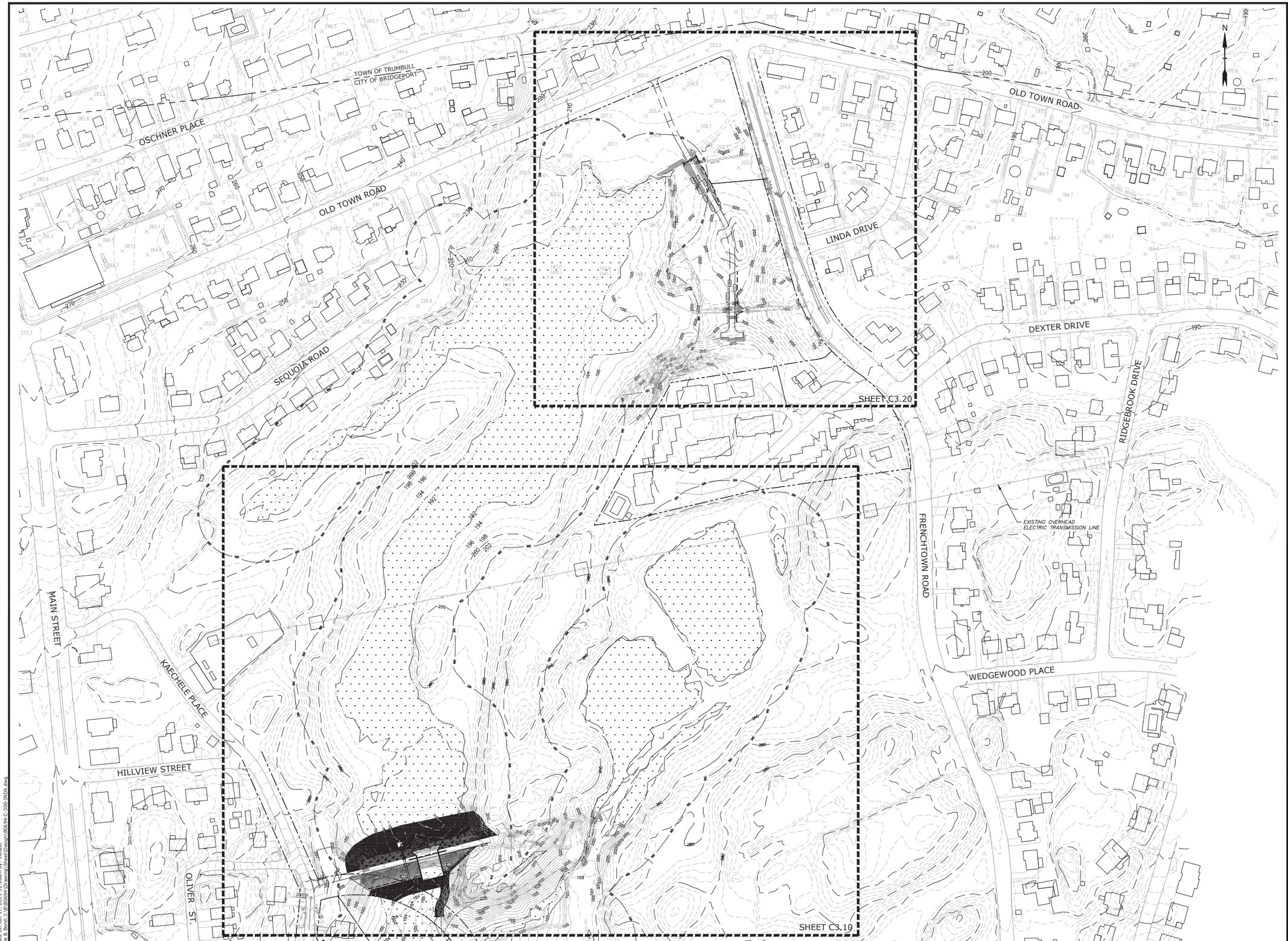
SITE PREPARATION PLAN

SCALE: 1" = 20'

C2.00

06/17/2019

Last Saved: 5/8/2019
Plotted On:Jun 17, 2019-11:26am By: Canas3
Tighe & Bond:J:\B\B0694\Drawing\Sheet\Design\B0694-C-200-PREP.dwg



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1000 Bridgeport Avenue
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(203) 712-1100

SCALE IN FEET
0 100' 200'
GRAPHIC SCALE

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION
2	06/24/19	DAM SAFETY COMMENTS
1	02/15/19	REMOVED EXTRA STORAGE AREA

PROJECT NO:	B0694
FILE:	B0694-C-300-INDX.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

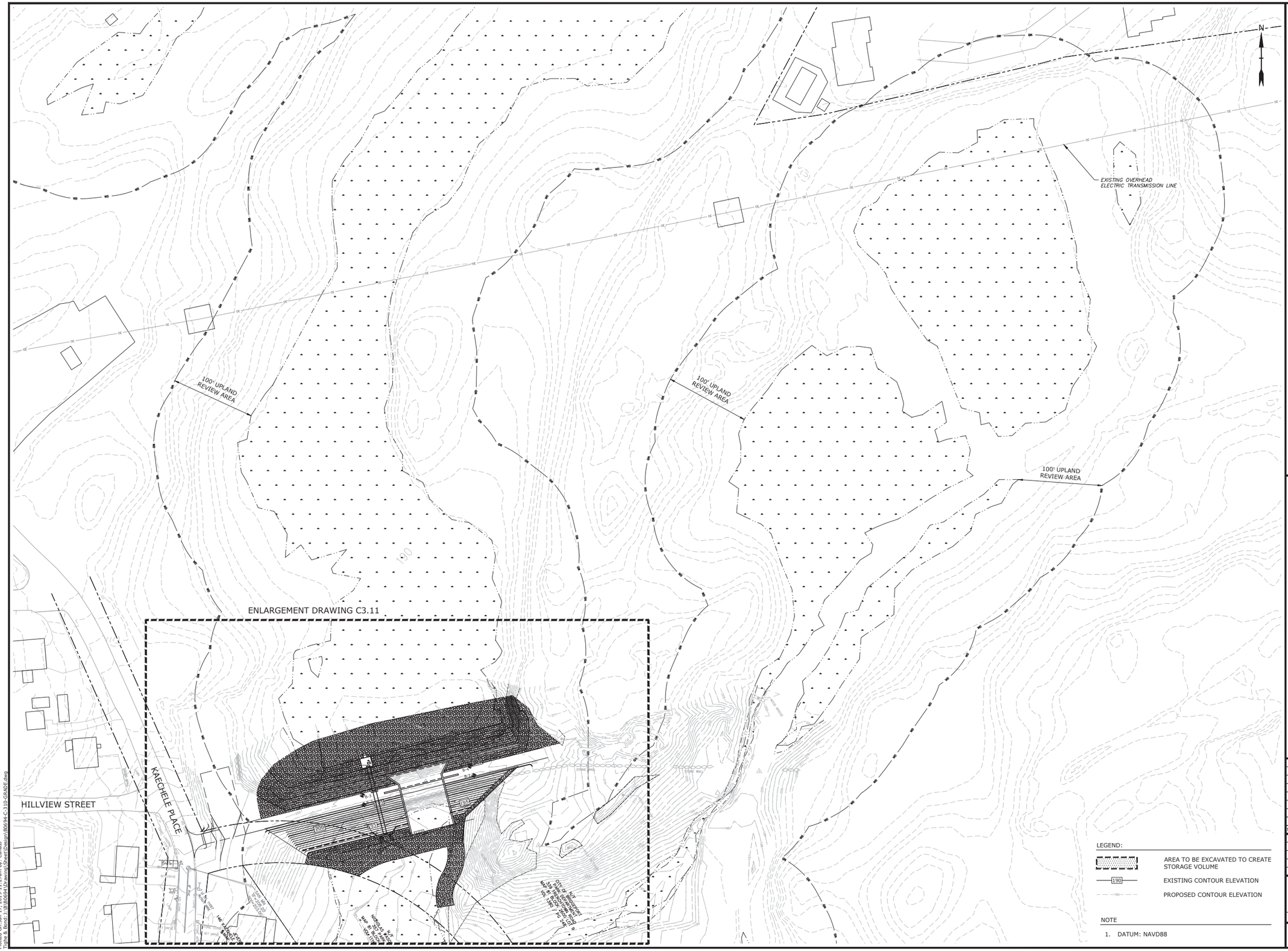
INDEX PLAN

SCALE: 1" = 100'

C3.00

Last Saved: 5/9/2019
Plotted On: Jun 17, 2019-11:26am By: CanasJ
Tighe & Bond: J:\B\B0694\Drawing\Sheet\Design\B0694-C-300-INDX.dwg

06/17/2019



LEGEND:

AREA TO BE EXCAVATED TO CREATE STORAGE VOLUME

190 EXISTING CONTOUR ELEVATION

190 PROPOSED CONTOUR ELEVATION

NOTE

1. DATUM: NAVD88

Tighe&Bond
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1000 Bridgeport Avenue
Suite 320
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(203) 712-1100

SCALE IN FEET
0 50' 100'
GRAPHIC SCALE

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION
1	02/15/19	REMOVED EXTRA STORAGE AREA

PROJECT NO:	B0694
FILE:	B0694-C-310-GRADE.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

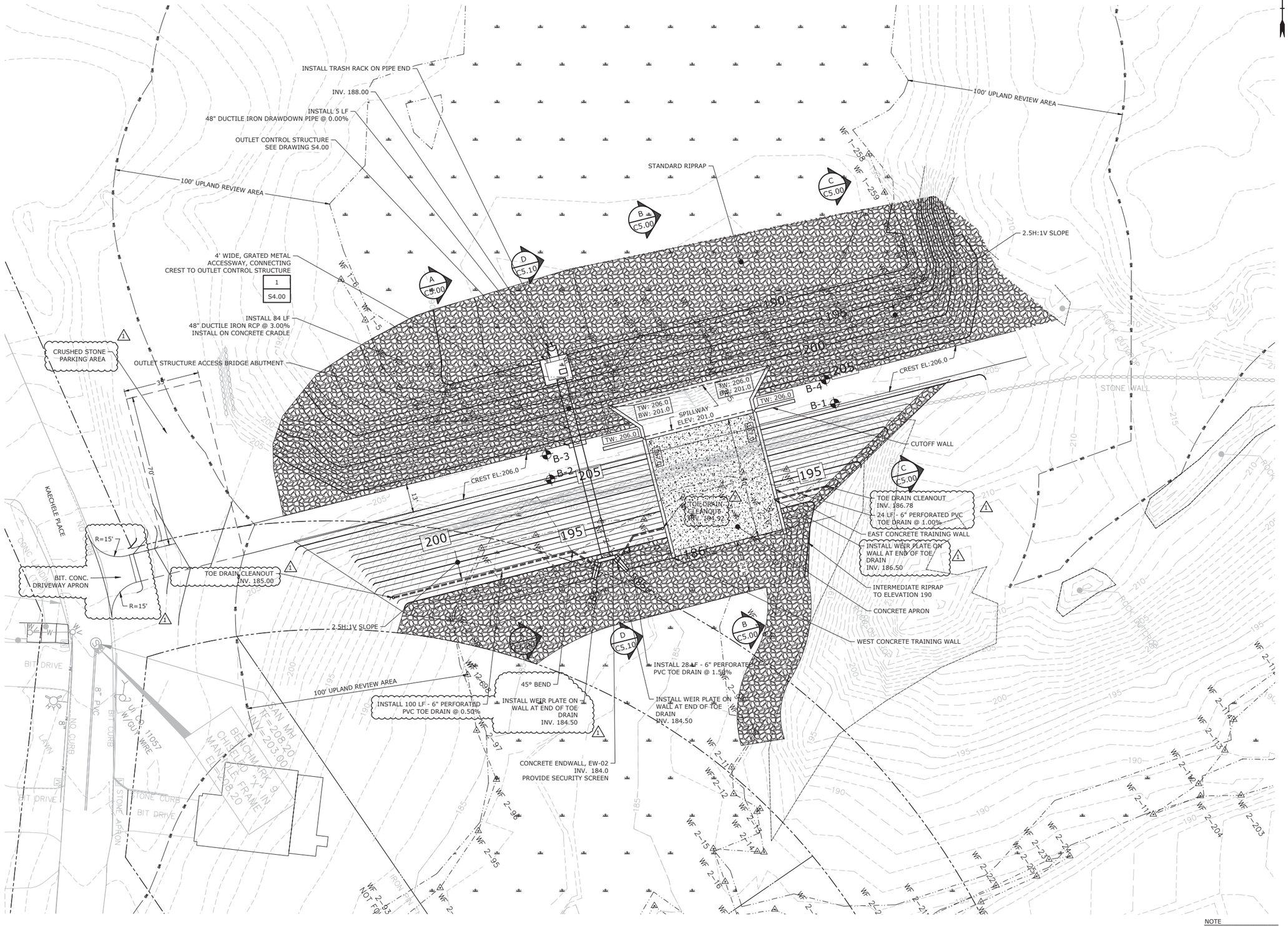
OUTLET AREA ENLARGEMENT PLAN

SCALE: 1" = 50'

C3.10

06/17/2019

Last Saved: 6/17/2019
Plotted On:Jun 17, 2019-11:27am By: CanasJ
Tighe & Bond:J:\B\B0694\Drawing\Sheet\Design\B0694-C-310-GRADE.dwg


INSTALL TRASH RACK ON PIPE END
INV. 188.00
INSTALL 5 LF
48" DUCTILE IRON DRAWDOWN PIPE @ 0.00%
OUTLET CONTROL STRUCTURE
SEE DRAWING S4.00
100' UPLAND REVIEW AREA
STANDARD RIPRAP
4' WIDE, GRATED METAL
ACCESSWAY, CONNECTING
CREST TO OUTLET CONTROL STRUCTURE
1
S4.00
INSTALL 84 LF
48" DUCTILE IRON RCP @ 3.00%
INSTALL ON CONCRETE CRADLE
CRUSHED STONE
PARKING AREA
OUTLET STRUCTURE ACCESS BRIDGE ABUTMENT
KAECHELE PLACE
R=15'
BIT. CONC.
DRIVEWAY APRON
TOE DRAIN CLEANOUT
INV. 185.00
2.5H:1V SLOPE
100' UPLAND REVIEW AREA
INSTALL 100 LF - 6" PERFORATED
PVC TOE DRAIN @ 0.50%
45° BEND
INSTALL WEIR PLATE ON
WALL AT END OF TOE
DRAIN
INV. 184.50
CONCRETE ENDWALL, EW-02
INV. 184.0
PROVIDE SECURITY SCREEN
SAN MH
RIM=208.20
INV=203.00
BENCHMARK 9
CHISELED "X" IN
MANHOLE FRAME
ELEV=208.20
TW: 206.0
BW: 201.0
SPILLWAY
ELEV: 201.0
CREST EL:206.0
B-1
B-2
B-3
B-4
CUTOFF WALL
TOE DRAIN CLEANOUT
INV. 194.92
TOE DRAIN CLEANOUT
INV. 186.78
24 LF - 6" PERFORATED PVC
TOE DRAIN @ 1.00%
EAST CONCRETE TRAINING WALL
INSTALL WEIR PLATE ON
WALL AT END OF TOE
DRAIN
INV. 186.50
INTERMEDIATE RIPRAP
TO ELEVATION 190
CONCRETE APRON
WEST CONCRETE TRAINING WALL
INSTALL 28 LF - 6" PERFORATED
PVC TOE DRAIN @ 1.50%
INSTALL WEIR PLATE ON
WALL AT END OF TOE
DRAIN
INV. 184.50
2.5H:1V SLOPE
ROCK OUTCROP
STONE WALL
WF 1-258
WF 1-259
WF 1-5
WF 1-8
WF 2-97
WF 2-95
WF 2-96
WF 2-63
WF 2-205
WF 2-12
WF 2-13
WF 2-14
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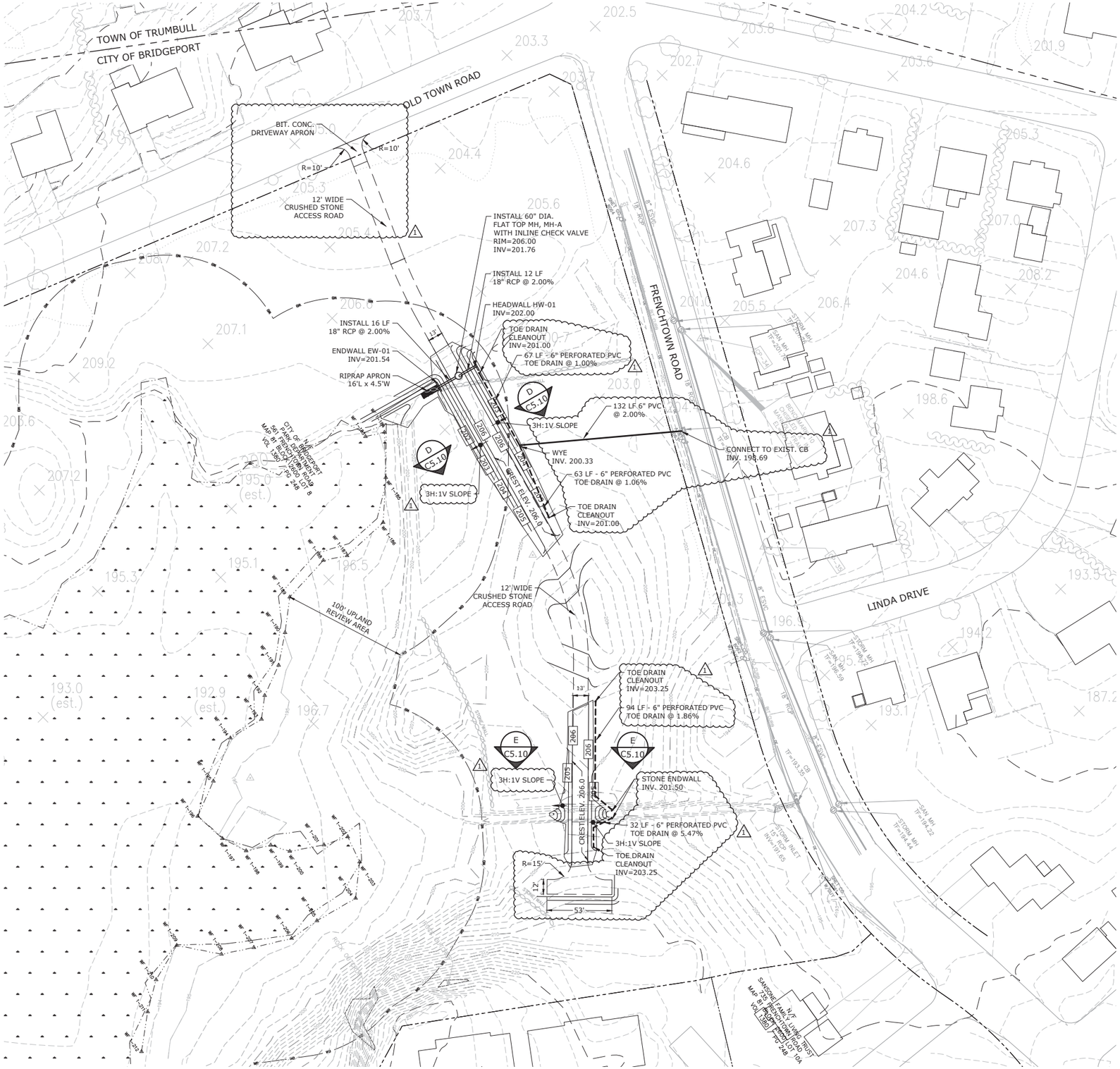
WF 2-31
WF



NOTE
1. DATUM: NAVD88

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SCALE IN FEET
0 40' 80'
GRAPHIC SCALE

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION
1	06/24/19	DAM SAFETY COMMENTS

PROJECT NO:	B0694
FILE:	B0694-C-310-GRADE.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

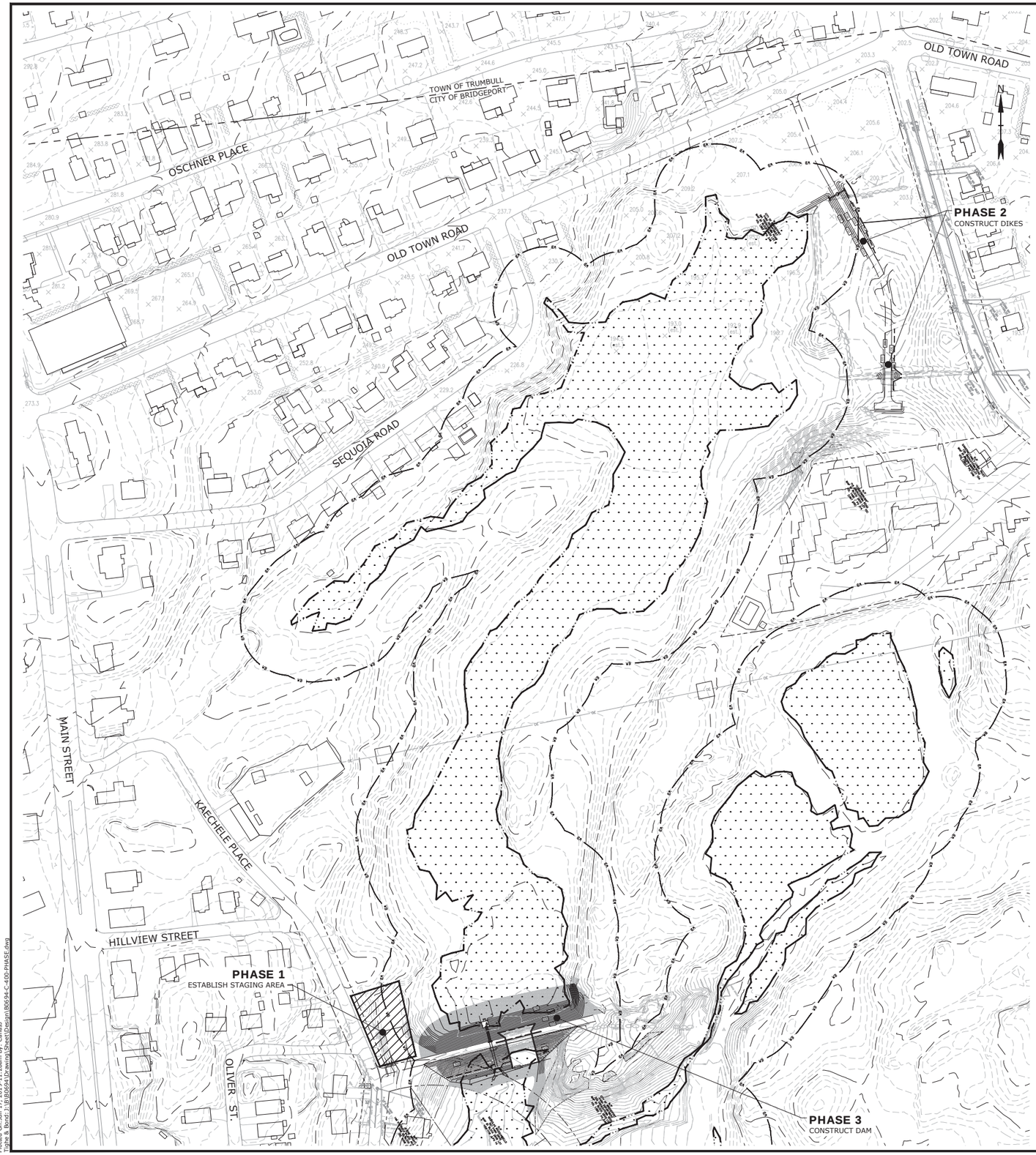
NORTHEAST AREA ENLARGEMENT PLAN

SCALE: 1" = 40'

C3.20

06/17/2019

Last Saved: 6/17/2019
Plotted On:Jun 17, 2019-11:27am By: CanasJ
Tighe & Bond:J:\B\B0694\Drawing\Sheet\Design\B0694-C-310-GRADE.dwg



CONSTRUCTION SEQUENCE - PHASE 1

1. CONDUCT A PRE-CONSTRUCTION MEETING WITH THE OWNER OR OWNER'S REPRESENTATIVE, CITY ENGINEER, DESIGN ENGINEER, SITE ENGINEER, CONTRACTOR AND SITE SUPERINTENDENT TO ESTABLISH THE LIMITS OF CONSTRUCTION, CONSTRUCTION PROCEDURES AND MATERIAL STOCKPILE AREAS.
2. FIELD STAKE THE LIMITS OF CONSTRUCTION.
3. INSTALL ALL APPLICABLE SOIL AND EROSION CONTROL MEASURES AROUND THE PERIMETER OF THE SITE TO THE EXTENT POSSIBLE. THIS WILL INCLUDE SILTATION FENCE AROUND THE PROJECT AS SHOWN ON THE PLANS.
4. INSTALL CONSTRUCTION ACCESS ROAD AND ANTI-TRACKING PAVEMENT IN THE AREAS AS SHOWN ON THE PLANS. ALL CONSTRUCTION ACCESS SHALL BE INTO THE SITE THROUGH THE ANTI-TRACKING PADS.
5. ESTABLISH TEMPORARY STAGING AREA.
6. INSTALL SILT SACKS AND HAYBALE BARRIERS AROUND EXISTING CATCH BASINS TO REMAIN AS INDICATED ON THE PLANS.
7. INSTALL DRAINAGE SYSTEM TO THE EXTENT NECESSARY TO PROVIDE POSITIVE DRAINAGE.
8. PROVIDE SILT FENCE/HAYBALE BARRIER AROUND SOIL STOCKPILE AREA. PROVIDE TEMPORARY VEGETATIVE COVER (DEFINED IN EROSION CONTROL NOTES) ON ALL EXPOSED SURFACES.
9. ESTABLISH PERMANENT VEGETATIVE COVER.

CONSTRUCTION SEQUENCE - PHASE 2

1. FIELD STAKE CONSTRUCTION LIMITS.
2. INSTALL CONSTRUCTION ENTRANCE.
3. CLEAR AND GRUB CONSTRUCTION LIMITS.
4. INSTALL PERIMETER EROSION CONTROLS.
5. CONSTRUCT BERMS.
6. STABILIZE DISTURBED AREAS.

CONSTRUCTION SEQUENCE - PHASE 3

1. THIS PHASE MY NOT BE COMPLETED UNTIL PHASE 2 IS COMPLETED.
2. FIELD STAKE CONSTRUCTION LIMITS.
3. MAINTAIN AND REFRESH PHASE 1 EROSION CONTROLS.
4. CLEAR AND GRUB CONSTRUCTION LIMITS.
5. INSTALL PERIMETER EROSION CONTROLS.
6. INSTALL OUTLET PIPING
7. CONSTRUCT OUTLET CONTROL STRUCTURE.
8. CONSTRUCT AUXILIARY SPILLWAY.
9. DEPOSIT AND COMPACT FILL MATERIALS TO FORM DAM CREST.
10. STABILIZE UPSTREAM AND DOWNSTREAM SLOPES.
11. PLACE DOWNSTREAM AND UPSTREAM RIPRAP PROTECTION.
12. ESTABLISH VEGETATED SLOPE ON DOWNSTREAM SIDE.
13. STABILIZE SURROUNDING DISTURBED AREA.

NOTE:

1. ACCESS TO CONSTRUCTION AREAS SHALL BE SECURED BY TEMPORARY 8' CHAIN LINK FENCE. FENCING SECURED AREA MUST BE MINIMUM TO CONDUCT WORK TO ALLOW PUBLIC ACCESS TO REMAINDER OF PARK.

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SCALE IN FEET
0 100' 200'
GRAPHIC SCALE

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION
2	06/24/19	DAM SAFETY COMMENTS

PROJECT NO:	B0694
FILE:	B0694-C-400-PHASE.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

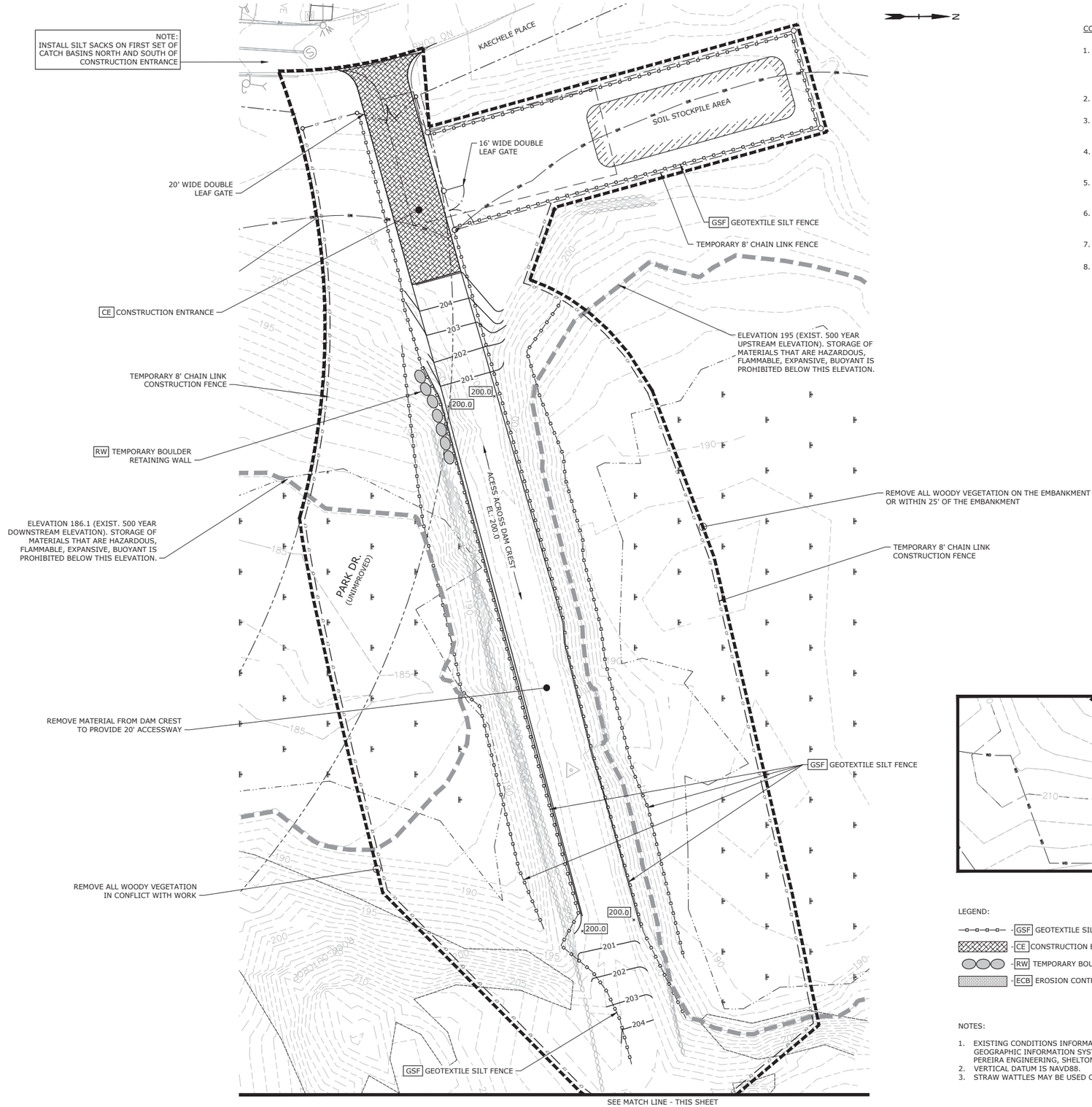
CONSTRUCTION PHASING PLAN

SCALE: 1" = 100'

C4.00

06/17/2019

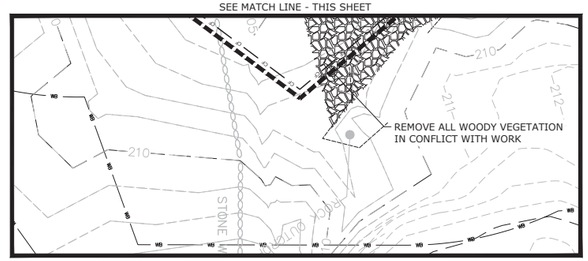
Last Saved: 5/7/2019
Plotted On: Jun 17, 2019 9:11:28am By: Canas!
T:\Civil & Dams\2018\B0694\Drawings\Const Design\B0694-C-400-PHASE.dwg



CONSTRUCTION SEQUENCE - PHASE 1

1. CONDUCT A PRECONSTRUCTION MEETING WITH THE OWNER OR OWNER'S REPRESENTATIVE, CITY ENGINEER, DESIGN ENGINEER, CONTRACTOR AND SITE SUPERINTENDENT TO ESTABLISH THE LIMITS OF CONSTRUCTION, CONSTRUCTION PROCEDURES AND MATERIAL STOCKPILE AREAS.
2. FIELD STAKE THE LIMITS OF CONSTRUCTION.
3. INSTALL APPLICABLE SOIL AND EROSION CONTROL MEASURES AROUND THE PERIMETER OF THE SITE TO THE MAXIMUM EXTENT POSSIBLE.
4. INSTALL CONSTRUCTION ENTRANCE AND FENCING AROUND CONSTRUCTION STAGING AND STORAGE AREA.
5. INSTALL SILT SACKS ON THE FIRST SET OF CATCH BASINS NORTH AND SOUTH OF THE SITE ENTRANCE ON KAECHELE PLACE.
6. BEGIN TO REMOVE MATERIAL FROM DAM TO PROVIDE A LEVEL 20' WIDE ACCESSWAY ACROSS THE DAM.
7. STOCKPILE MATERIAL IN STAGING AREA, AND HAUL OFF SITE.
8. PROVIDE STABILIZED GRAVEL SURFACE A FOR ACCESSWAY.

SEE MATCH LINE - THIS SHEET



LEGEND:

- GSF GEOTEXTILE SILT FENCE
- CE CONSTRUCTION ENTRANCE
- RW TEMPORARY BOULDER RETAINING WALL
- ECB EROSION CONTROL BLANKET

NOTES:

1. EXISTING CONDITIONS INFORMATION IS COMPILED FROM CITY OF BRIDGEPORT GEOGRAPHIC INFORMATION SYSTEMS AND SURVEY INFORMATION PROVIDED BY PEREIRA ENGINEERING, SHELTON, CONNECTICUT.
2. VERTICAL DATUM IS NAVD88.
3. STRAW WATTLES MAY BE USED ON DAM IN LIEU OF GEOTEXTILE SILT FENCE.

SCALE IN FEET
0 20' 40'
GRAPHIC SCALE

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Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION

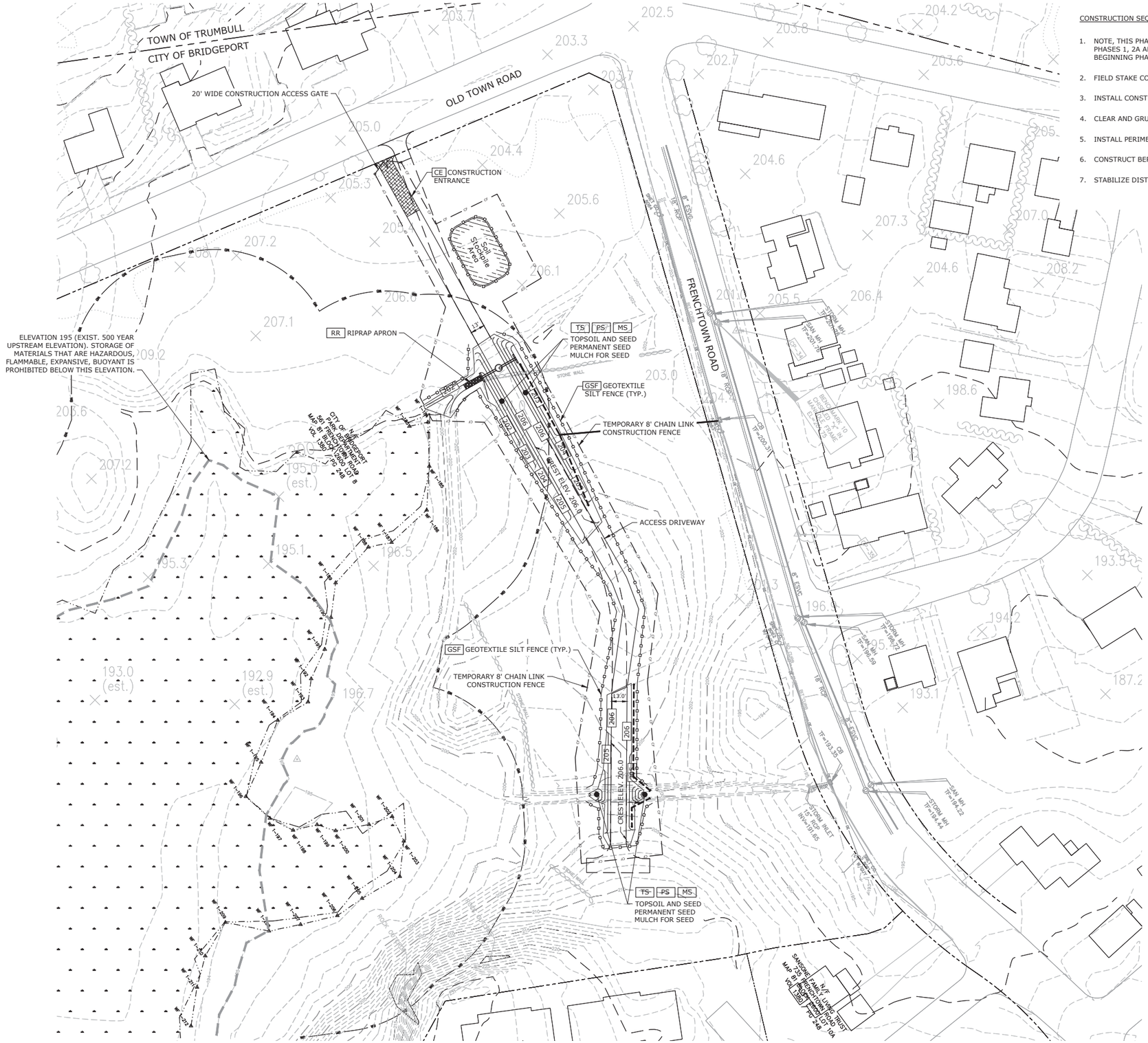
PROJECT NO:	B0694
FILE:	B0694-C-410-SESC.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

SEDIMENT AND EROSION CONTROL PLAN - PHASE 1

SCALE: 1" = 20'

C4.10

Last Saved: 2/13/2019
Plotted On:Jun 17, 2019-11:28am By: CanasJ
Tighe & Bond:J:\B\B0694\Drawing\Sheet\Design\B0694-C-410-SESC.dwg
06/17/2019



CONSTRUCTION SEQUENCE - PHASE 3

1. NOTE, THIS PHASE MAY BE PERFORMED CONCURRENTLY WITH PHASES 1, 2A AND/OR 2B, BUT MUST BE COMPLETED BEFORE BEGINNING PHASE 4.
2. FIELD STAKE CONSTRUCTION LIMITS.
3. INSTALL CONSTRUCTION ENTRANCE.
4. CLEAR AND GRUB CONSTRUCTION LIMITS.
5. INSTALL PERIMETER EROSION CONTROLS.
6. CONSTRUCT BERMS.
7. STABILIZE DISTURBED AREAS.

LEGEND:

- CE CONSTRUCTION ENTRANCE
- ECB EROSION CONTROL BLANKET
- GSF GEOTEXTILE SILT FENCE
- MS MULCH FOR SEED
- PS PERMANENT SEEDING
- RR RIPRAP APRON
- TS TOPSOIL & SEED

SCALE IN FEET
0 40' 80'
GRAPHIC SCALE

NOTE
1. DATUM: NAVD88

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Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION
1	06/24/19	DAM SAFETY COMMENTS

PROJECT NO:	B0694
FILE:	B0694-C-420-SESC.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

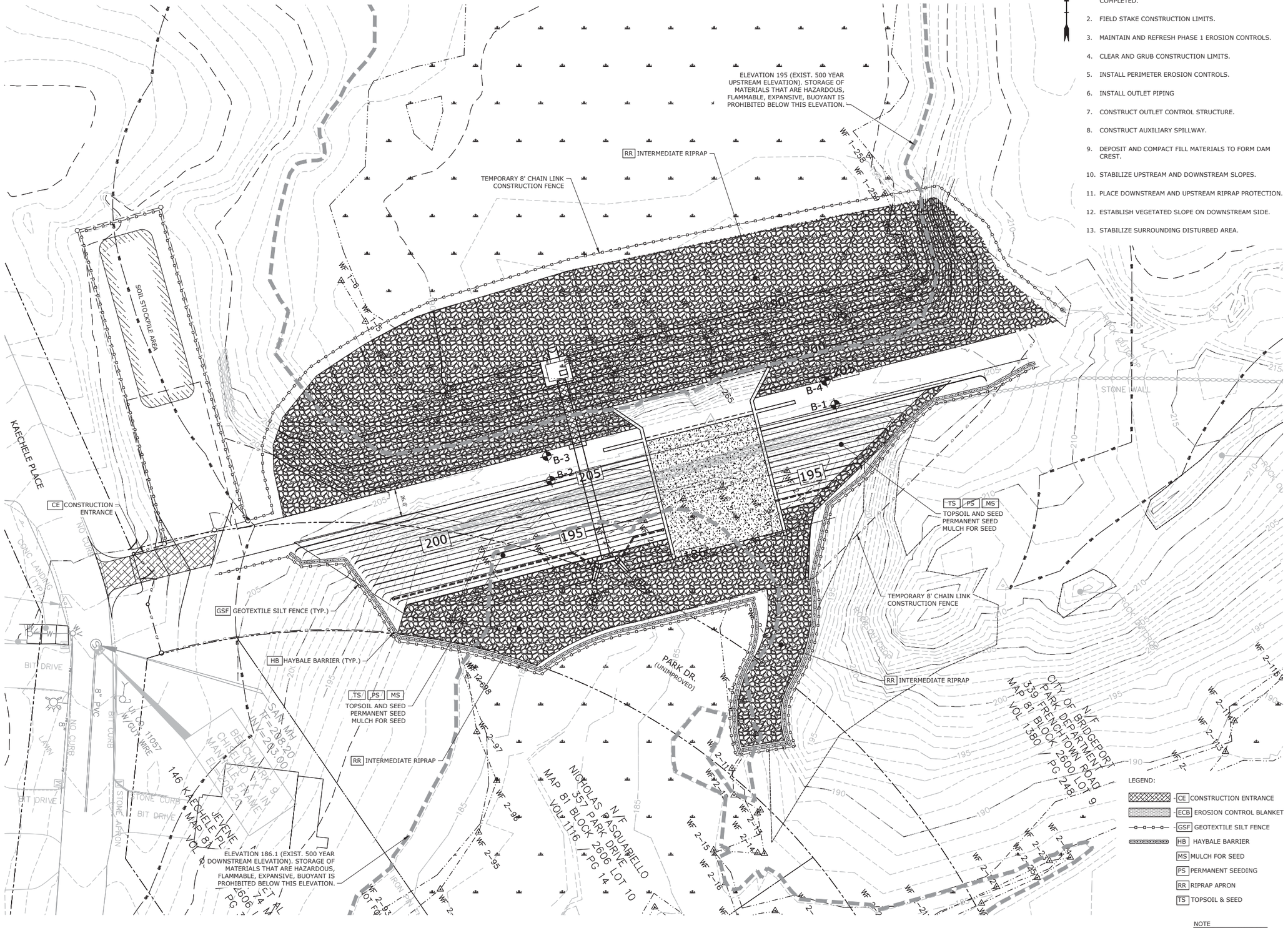
SEDIMENT AND EROSION CONTROL PLAN - PHASE 2

SCALE: 1" = 40'

C4.20

06/17/2019

Last Saved: 2/13/2019
Plotted On: Jun 17, 2019-11:29am By: Canasi
File & Path: J:\B0694\Drawing\Sheet\Design\B0694-C-420-SESC.dwg



N

CONSTRUCTION SEQUENCE - PHASE 4

1. THIS PHASE MY NOT BE COMPLETED UNTIL PHASE 3 IS COMPLETED.
2. FIELD STAKE CONSTRUCTION LIMITS.
3. MAINTAIN AND REFRESH PHASE 1 EROSION CONTROLS.
4. CLEAR AND GRUB CONSTRUCTION LIMITS.
5. INSTALL PERIMETER EROSION CONTROLS.
6. INSTALL OUTLET PIPING
7. CONSTRUCT OUTLET CONTROL STRUCTURE.
8. CONSTRUCT AUXILIARY SPILLWAY.
9. DEPOSIT AND COMPACT FILL MATERIALS TO FORM DAM CREST.
10. STABILIZE UPSTREAM AND DOWNSTREAM SLOPES.
11. PLACE DOWNSTREAM AND UPSTREAM RIPRAP PROTECTION.
12. ESTABLISH VEGETATED SLOPE ON DOWNSTREAM SIDE.
13. STABILIZE SURROUNDING DISTURBED AREA.

LEGEND:

- CE CONSTRUCTION ENTRANCE
- ECB EROSION CONTROL BLANKET
- GSF GEOTEXTILE SILT FENCE
- HB HAYBALE BARRIER
- MS MULCH FOR SEED
- PS PERMANENT SEEDING
- RR RIPRAP APRON
- TS TOPSOIL & SEED

NOTE
1. DATUM: NAVD88

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SCALE IN FEET
0 20' 40'
GRAPHIC SCALE

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-C-440-SESC.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

SEDIMENT AND EROSION CONTROL PLAN - PHASE 3

SCALE: 1" = 20'

C4.30

06/17/2019

Last Saved: 5/7/2019
Plotted On: Jun 17, 2019-11:30am By: CanasJ
Tighe & Bond: J:\B\B0694\Drawing\Sheet\Design\B0694-C-440-SESC.dwg

EROSION CONTROL NOTES

1. ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", DEP BULLETIN NO. 34, AND ALL AMENDMENTS AND ADDENDA THERETO AS PUBLISHED BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION.
2. LAND DISTURBANCE SHALL BE KEPT TO THE MINIMUM NECESSARY FOR CONSTRUCTION OPERATIONS.
3. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLAN AND ELSEWHERE AS ORDERED BY THE ENGINEER OR CITY.
4. ALL CATCH BASINS SHALL BE PROTECTED WITH A SILT SACKS, HAYBALE RING, SILT FENCE OR BLOCK AND STONE INLET PROTECTION THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED.
5. WHENEVER POSSIBLE, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION. SEE "EROSION CONTROL NARRATIVE".
6. ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD AS ORDERED BY THE ENGINEER.
7. ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
8. SEDIMENT REMOVED SHALL BE DISPOSED OF OFF SITE OR IN A MANNER AS REQUIRED BY THE ENGINEER.
9. THE CONSTRUCTION CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF ALL CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PERIOD.
10. ALL DISTURBED AREAS TO BE LEFT EXPOSED FOR MORE THAN 30 DAYS SHALL BE PROTECTED WITH A TEMPORARY VEGETATIVE COVER. SEED THESE AREAS WITH PERENNIAL RYEGRASS AT THE RATE OF 40 LBS. PER ACRE (1 LB. PER 1,000 SQ. FT). APPLY SOIL AMENDMENTS AND MULCH AS REQUIRED TO ESTABLISH A UNIFORM STAND OF VEGETATION OVER ALL DISTURBED AREAS.
11. THE CONSTRUCTION CONTRACTOR SHALL UTILIZE APPROVED METHODS/MATERIALS FOR PREVENTING THE BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES ONTO ADJACENT PROPERTIES AND SITE AREAS.
12. THE CONSTRUCTION CONTRACTOR SHALL MAINTAIN A SUPPLY OF SILT FENCE/HAYBALES AND ANTI-TRACKING CRUSHED STONE ON SITE FOR EMERGENCY REPAIRS.
13. ALL DRAINAGE STRUCTURES SHALL BE PERIODICALLY INSPECTED WEEKLY BY THE CONSTRUCTION CONTRACTOR AND CLEANED TO PREVENT THE BUILD-UP OF SILT.
14. THE CONSTRUCTION CONTRACTOR SHALL CAREFULLY COORDINATE THE PLACEMENT OF EROSION CONTROL MEASURES WITH THE PHASING OF CONSTRUCTION.
15. KEEP ALL PAVED ROADWAYS CLEAN. SWEEP AND SCRAPE BEFORE FORECASTED STORMS.
16. TREAT ALL UNPAVED SURFACE WITH 4" MINIMUM OF TOPSOIL PRIOR TO FINAL STABILIZATION.
17. HAYBALE BARRIERS AND SILT FENCING SHALL BE INSTALLED ALONG THE TOE OF CRITICAL CUT AND FILL SLOPES.
18. THE CONTRACTOR SHALL NOTIFY THE CITY OF BRIDGEPORT'S ENVIRONMENTAL OFFICIAL PRIOR TO THE INSTALLATION OF EROSION CONTROLS, CUTTING OF TREES, OR ANY EXCAVATION.
19. ALL TRUCKS LEAVING THE SITE MUST BE COVERED.
20. SOME CONTROL MEASURES ARE PERMANENT. THESE STRUCTURES SHALL BE CLEANED AND REPLENISHED AT THE END OF CONSTRUCTION. LOCATIONS OF THE PERMANENT CONTROL STRUCTURES ARE SHOWN ON THE DRAINAGE PLANS.
23. ALL SEDIMENTATION AND EROSION CONTROLS SHALL BE CHECKED WEEKLY AND/OR AFTER EACH RAIN FALL EVENT. NECESSARY REPAIRS SHALL BE MADE WITHOUT DELAY.
24. PRIOR TO ANY FORECASTED RAINFALL, EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED AND REPAIRED AS NECESSARY.
25. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, EROSION CONTROLS MAY BE REMOVED ONCE AUTHORIZATION TO DO SO HAS BEEN SECURED FROM THE CITY. DISTURBED AREAS SHALL BE SEEDED AND MULCHED.

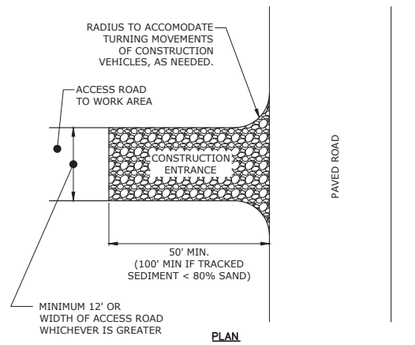
EROSION CONTROL NARRATIVE

THE STORMWATER MANAGEMENT MEASURES WILL ADDRESS THE STORMWATER QUALITY ONCE THE SITE HAS BEEN CONSTRUCTED AND STABILIZED. SEDIMENTATION AND EROSION CONTROL MEASURES WILL BE INSTALLED DURING CONSTRUCTION WHICH WILL MINIMIZE ADVERSE IMPACTS FROM CONSTRUCTION ACTIVITIES.

ALL SEDIMENTATION AND EROSION CONTROL MEASURES PROPOSED FOR THIS DEVELOPMENT HAVE BEEN DESIGNED IN ACCORDANCE WITH THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL" AS PUBLISHED BY THE CONNECTICUT COUNCIL ON SOIL EROSION AND WATER CONSERVATION. ADDITIONAL GUIDELINES HAVE ALSO BEEN FOLLOWED THAT ARE AVAILABLE FROM THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION AS RECOMMENDED FOR SEDIMENTATION CONTROL DURING CONSTRUCTION ACTIVITIES.

GENERAL

1. THE PROPOSED PROJECT IS ENTITLED "ELTON ROGERS PARK DAM RECONSTRUCTION" IN BRIDGEPORT, CONNECTICUT.
2. ESTIMATED:
   PROJECT START: SPRING 2020
   PROJECT COMPLETION: FALL 2020
3. EROSION CONTROL NARRATIVE REFERS TO DRAWINGS C4.00 THROUGH C4.30
4. THE SITE IS LOCATED AT ELTON ROGERS PARK IN BRIDGEPORT, CONNECTICUT.



CONSTRUCTION ENTRANCE
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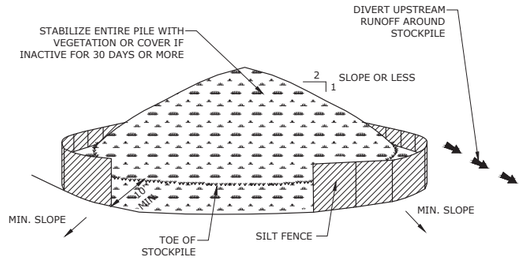
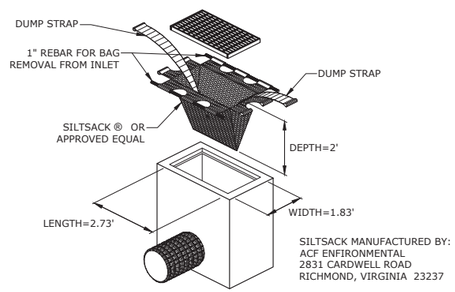


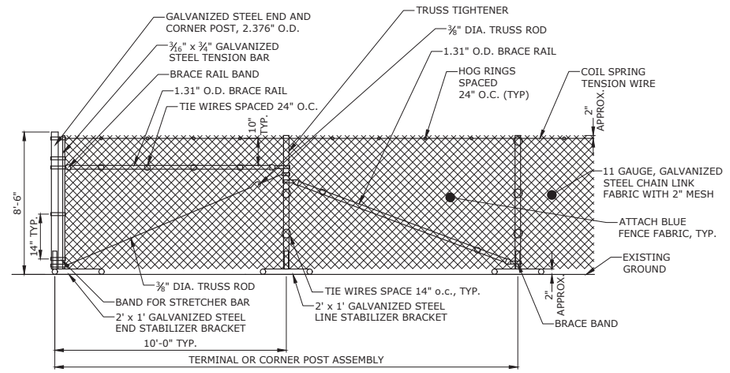
INSTALLATION NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2H:1V.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR HAYBALES, THEN STABILIZED WITH VEGETATION OR COVERED.

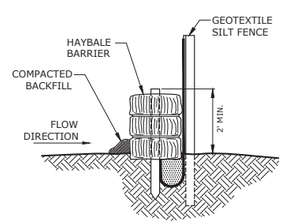
SOIL STOCKPILING
NO SCALE



SILTSACK®
NO SCALE

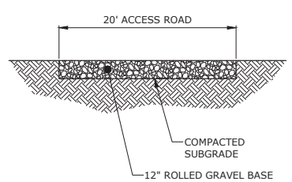


8' TEMPORARY CHAIN LINK CONSTRUCTION FENCE
NO SCALE

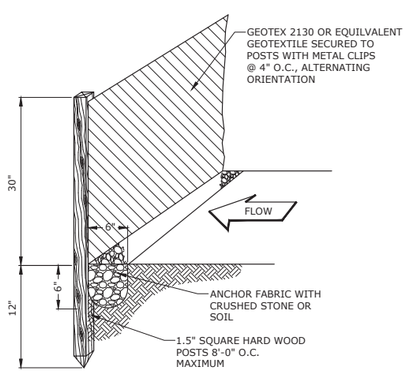


BACKFILL AND COMPACT THE EXCAVATED SOIL AS SHOWN ON THE UPHILL SIDE OF THE BARRIER TO PREVENT PIPING.

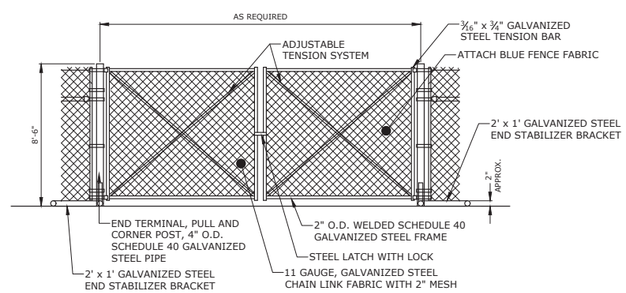
SILT FENCE AND HAYBALE
COMBINED BARRIER
NO SCALE



CONSTRUCTION
ACCESS ROAD
NO SCALE



SILT FENCE
NO SCALE



8' TEMPORARY CHAIN LINK CONSTRUCTION GATE
NO SCALE

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Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE: B0694-C-440-SESC.dwg	
DRAWN BY:	TAS
CHECKED:	JAC
APPROVED:	DH

SEDIMENT & EROSION CONTROL NOTES, NARRATIVE, AND DETAILS

SCALE: AS NOTED

C4.40

06/17/2019

Last Saved: 5/7/2019
Plotted On: Jun 17, 2019 9:11:39am By: Canas
T:\Jobs & Data\2018\B0694\Drawings\Sheet Design\B0694-C-440-SESC.dwg

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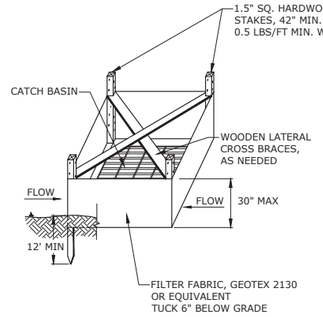
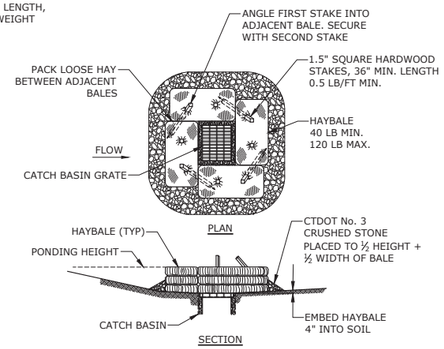
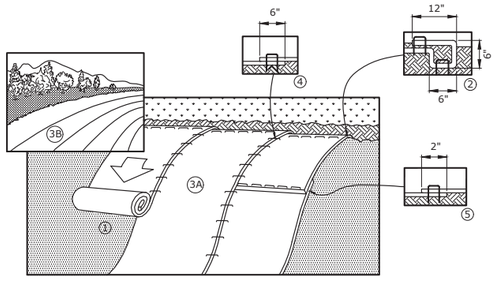


SILT FENCE INSTALLATION AT CATCH BASIN AT LOW POINTS



HAYBALE FILTER INSTALLATION AT CATCH BASIN AT LOW POINTS

CATCH BASIN EROSION CONTROL
NO SCALE

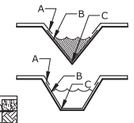


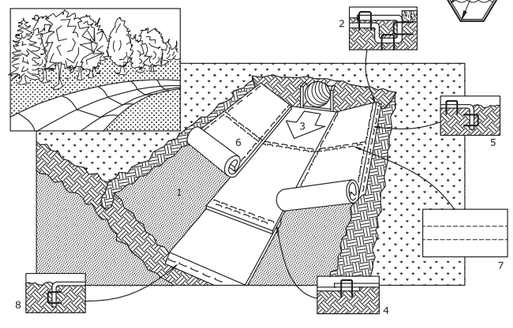
1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE, 36" OVER THE GRADE BREAK, BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UPSLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES SPACED 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS DOWN THE SLOPE. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SOIL SURFACE BY PLACING STAPLES IN APPROPRIATE LOCATIONS AS SHOWN ON THE STAPLE PATTERN GUIDE.
4. STAPLE LENGTHS SHALL BE A MINIMUM OF 8 INCHES.
5. EROSION CONTROL BLANKET TO BE NORTH AMERICAN GREEN SC150BN

EROSION CONTROL BLANKET
FOR SLOPE PROTECTION
NO SCALE

NOTE:
HORIZONTAL STAPLE SPACING SHOULE BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE RECOMMENDATIONS FOR CHANNELS.

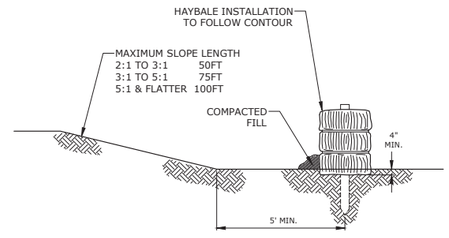
CRITICAL POINTS
A. OVERLAPS AND SEAMS
B. PROJECTED WATER LINE
C. CHANNEL BOTTOM/SIDE SLOPE VERTICIES



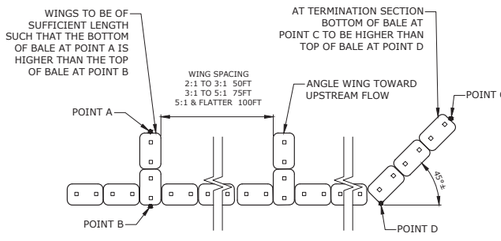


1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW ON BOTTOM OF CHANNEL.
4. PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH A 6" OVERLAP. USE A DOUBLE ROW OF STAGGERED STAPLES 4" APART TO SECURE BLANKETS.
5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. BLANKETS ON SIDE SLOPES MUST BE OVERLAPPED 4" OVER THE CENTER BLANKET AND STAPLED (2" FOR C350 MATTING).
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A ROW OF STAPLES 4' APART OVER THE ENTIRE WIDTH OF THE CHANNEL. PLACE A SECOND ROW 4" BELOW THE FIRST ROW IN A STAGGERED PATTERN.
8. TERMINAL END OF THE BLANKETS MUST BE ANCHORED IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

EROSION CONTROL BLANKET INSTALLATION
NO SCALE



PLACEMENT AT TOE OF SLOPE



WING AND TERMINAL SECTIONS

HAYBALE BARRIER
NO SCALE

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-C-440-SESC.dwg
DRAWN BY:	TAS
CHECKED:	JAC
APPROVED:	DH

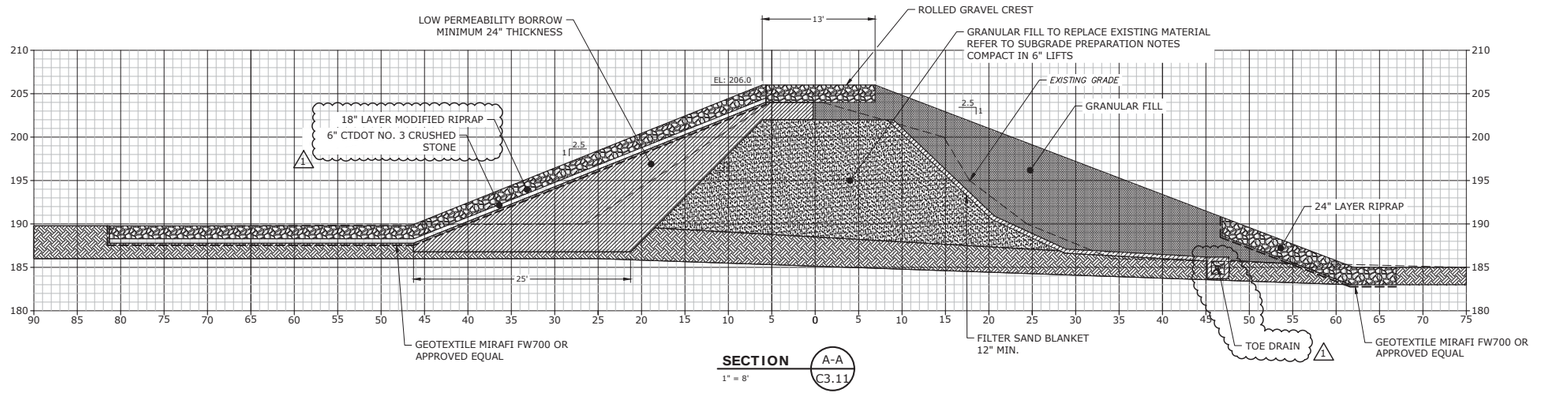
SEDIMENT & EROSION CONTROL DETAILS

SCALE: AS NOTED

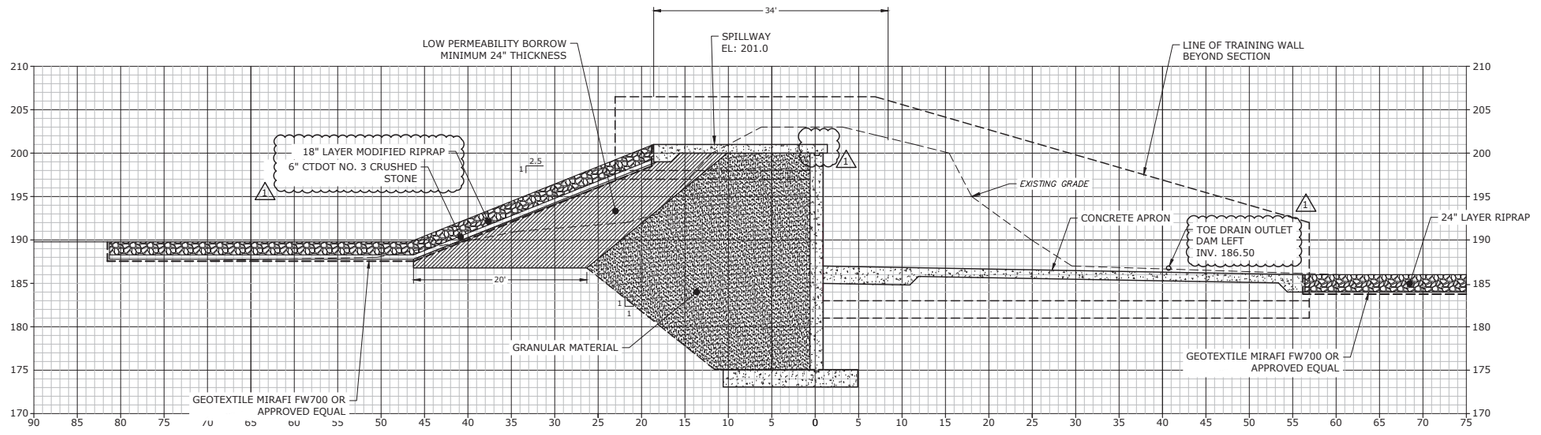
C4.41

06/17/2019

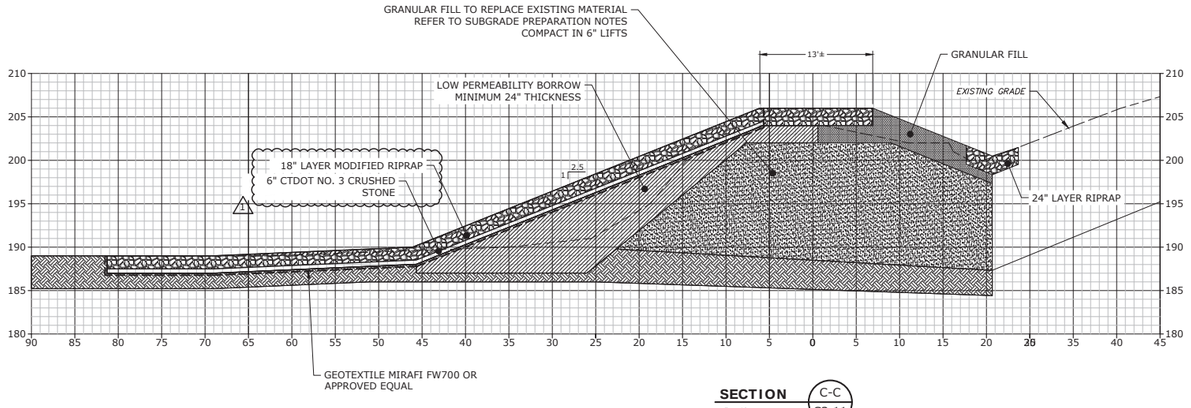
Last Saved: 5/7/2019
Plotted On: Jun 17, 2019 11:38am By: Canas1
File: K:\Bridgeport\B0694\Drawings\Sheet Design\B0694-C-440-SESC.dwg



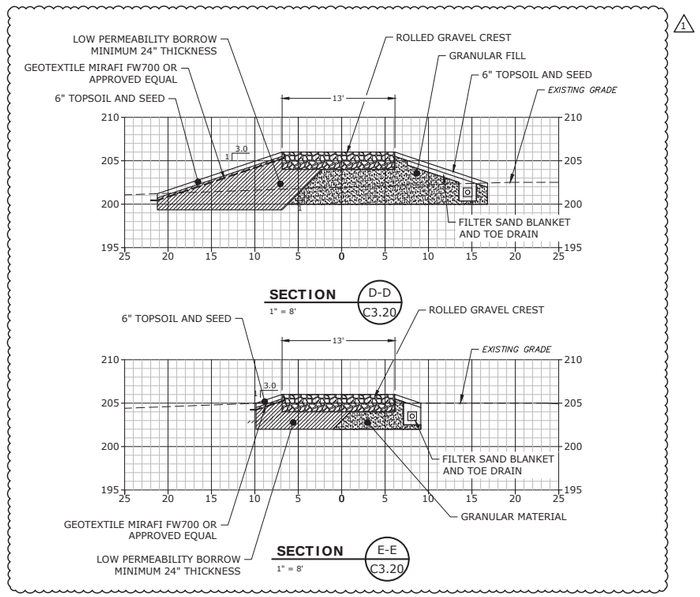
SECTION A-A
1" = 8' C3.11



SECTION B-B
1" = 8' C3.11



SECTION C-C
1" = 8' C3.11



SECTION D-D
1" = 8' C3.20

SECTION E-E
1" = 8' C3.20

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Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION
1	06/24/19	DAM SAFETY COMMENTS

PROJECT NO: B0694
FILE: B0694-C-500-SECT.dwg
DRAWN BY:
CHECKED: JAC
APPROVED: DH

CROSS-SECTIONS

SCALE: 1" = 8'

C5.00

Last Saved: 6/17/2019
Plotted On: Jun 17, 2019-11:38am By: Canas1
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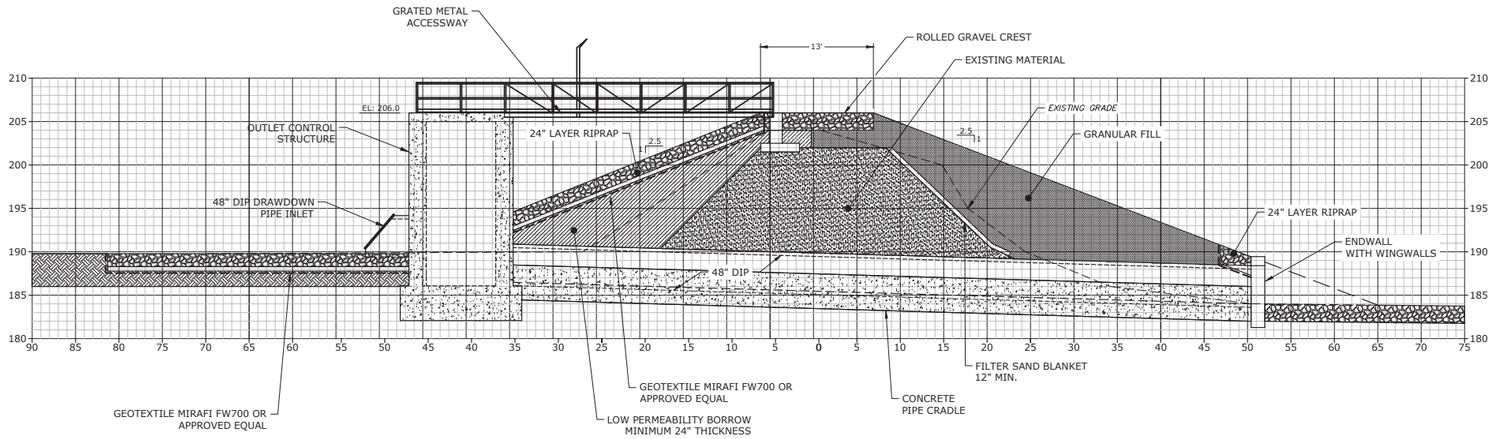

SECTION D C3.11
1" = 8'

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Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION
1	06/24/19	DAM SAFETY COMMENTS

PROJECT NO:	B0694
FILE:	B0694-C-500-SECT.dwg
DRAWN BY:	
CHECKED:	JAC
APPROVED:	DH

CROSS-SECTIONS

SCALE: 1" = 8'

C5.10

06/17/2019

Last Saved: 6/17/2019
Plotted On:Jun 17, 2019-11:30am By: Canas3
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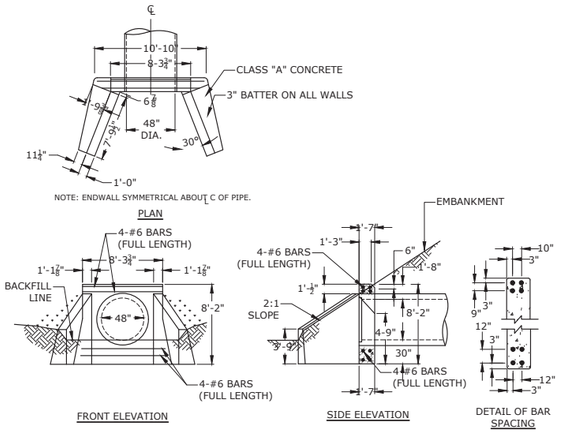
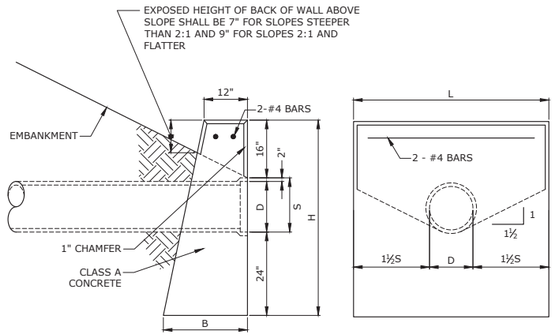


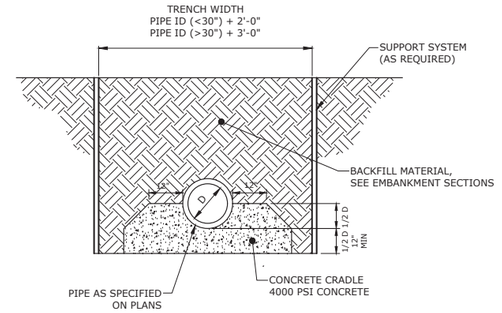
WING TYPE ENDWALLS - EW-02
NO SCALE



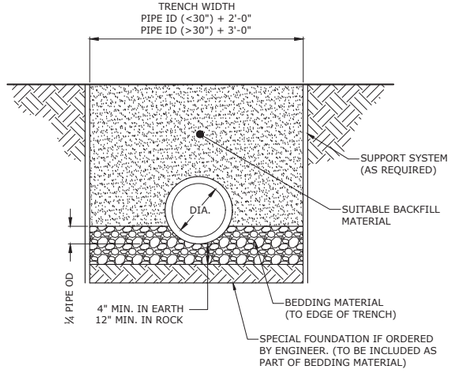
H=TOTAL HEIGHT OF ENDWALL
B=WIDTH OF BASE
D=INSIDE DIAMETER OF PIPE
S=HEIGHT OF SLOPE ABOVE PIPE INVERT AT FACE OF WALL (D+2)
L=LENGTH OF WALL (3S+D)

D	B	H	L	S	BATTER
12"	1'-11¼"	4'-6"	4'-6"	1'-2"	2½"
15"	1'-11⅞"	4'-9"	5'-6"	1'-5"	2½"
18"	2'-0¼"	5'-0"	6'-6"	1'-8"	2½"
24"	2'-1⅞"	5'-6"	8'-6"	2'-2"	2½"
30"	2'-3"	6'-0"	10'-6"	2'-8"	2½"
36"	2'-7⅛"	6'-6"	12'-6"	3'-2"	3"
42"	2'-9"	7'-0"	14'-6"	3'-8"	3"
48"	2'-10½"	7'-6"	16'-6"	4'-2"	3"

CONCRETE ENDWALLS AND HEADWALLS EW-01 & HW-01
NO SCALE



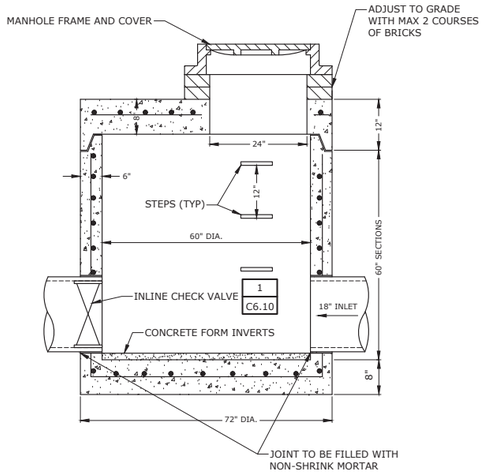
CIRCULAR PIPE THROUGH EMBANKMENTS
NO SCALE



NOTE:

1. ONLY FOR USE BEYOND DAM OR DIKE EMBANKMENT LIMITS

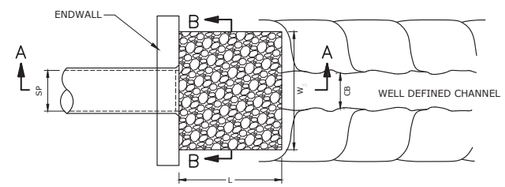
CIRCULAR R.C.P. TRENCH BEDDING
(PIPE DIAMETERS < 48")
NO SCALE



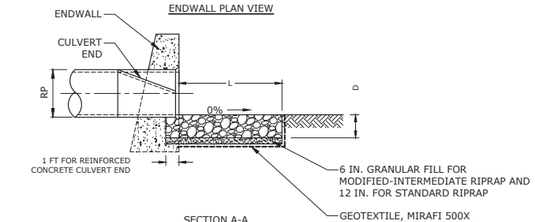
NOTES:

1. JOINT SEALANT SHALL BE PREFORMED BUTYL RUBBER MASTIC TYPE SEAL COMPLYING WITH AASHTO M198.
2. REINFORCING ASTM A185, 0.17 IN^2/VERT. FT.
3. 5,000 PSI CONCRETE @ 28 DAYS.
4. MANHOLE STEP TO BE USED MEETS OSHA REGULATION 20 CFR 1910.27 AND SECTION 11 ASTM SPECIFICATION C-473.
5. METHOD OF MANUFACTURE: WET CAST.
6. BASE SECTION MONOLITHIC.
7. KNOCKOUTS FOR PIPES 4" MIN. FROM TOP AND BOTTOM OF SECTION.

60" DIA. FLAT TOP MANHOLE
NO SCALE

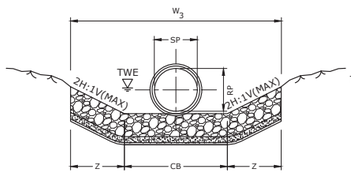


ENDWALL PLAN VIEW



SECTION A-A
CULVERT END AND ENDWALL

Z	CHANNEL SIDE SLOPE
2	2H : 1V
3	3H : 1V
4	4H : 1V
5	5H : 1V
6	6H : 1V



SECTION B-B
CULVERT END AND ENDWALL

CB= CHANNEL BOTTOM
TWE= TAILWATER ELEVATION
SP= { MAX. INSIDE PIPE SPAN (NON-CIRCULAR SECTIONS) / INSIDE PIPE DIAMETER (CIRCULAR SECTIONS)
RP= { MAX. INSIDE PIPE RISE (NON-CIRCULAR SECTIONS) / INSIDE PIPE DIAMETER (CIRCULAR SECTIONS)
LA= LENGTH OF RIPRAP APRON MEASURED FROM THE END OF CULVERT END SECTION OR FACE OF ENDWALL
D= { 12" IN. MODIFIED RIPRAP / 18" IN. INTERMEDIATE RIPRAP / 36" IN. STANDARD RIPRAP
W_3= USE WHICHEVER IS GREATER: { 3S / 2 (Z) (TWE + 0.3 M) + CP / 2 (Z) (0.7 RP) + CB

RIPRAP APRON AT EW-01
NO SCALE

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Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-C-600-DETL.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

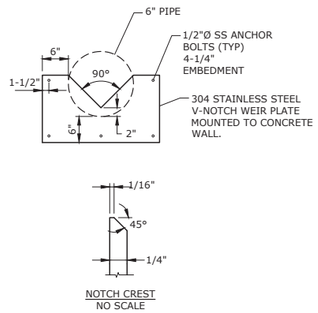
SITE DETAILS

SCALE: AS NOTED

C6.00

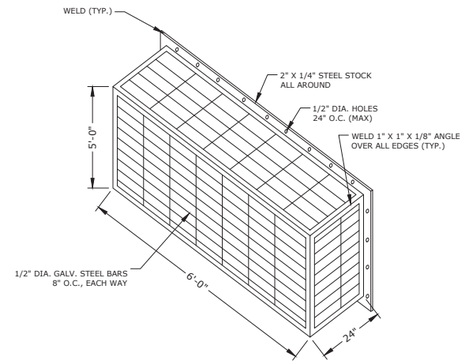
06/17/2019

Last Saved: 6/5/2019
Plotted On: Jun 17, 2019 - 11:31am By: Canakl
Layout & Model: J:\B\B0694\Drawing\Sheet Design\B0694-C-600-DETL.dwg



NOTCH CREST
NO SCALE

TOE DRAIN WEIR PLATE
NO SCALE



SECURITY SCREEN AT ENDWALL EW-02
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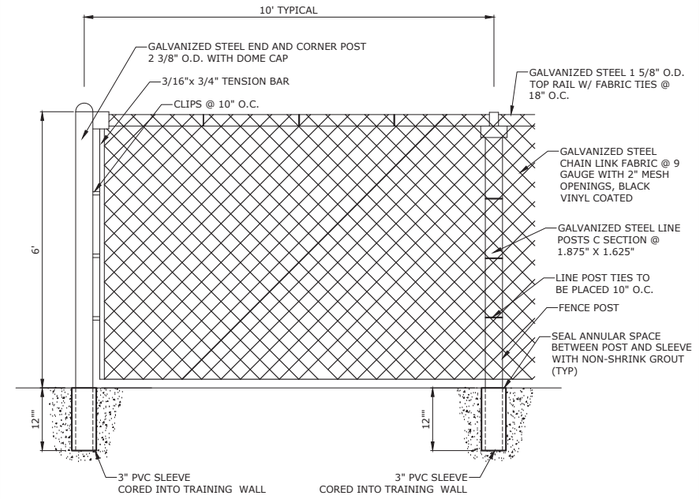

VINYL-COATED MESH
6' CHAIN LINK FENCE
NO SCALE

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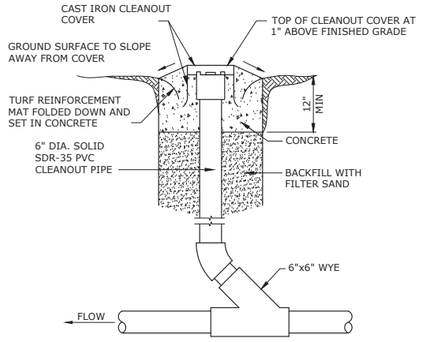

TOE DRAIN CLEANOUT
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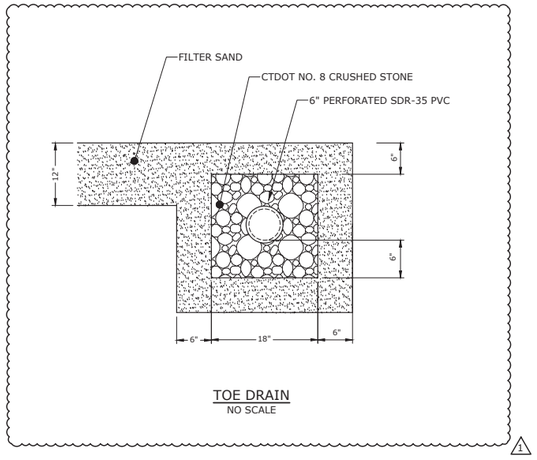
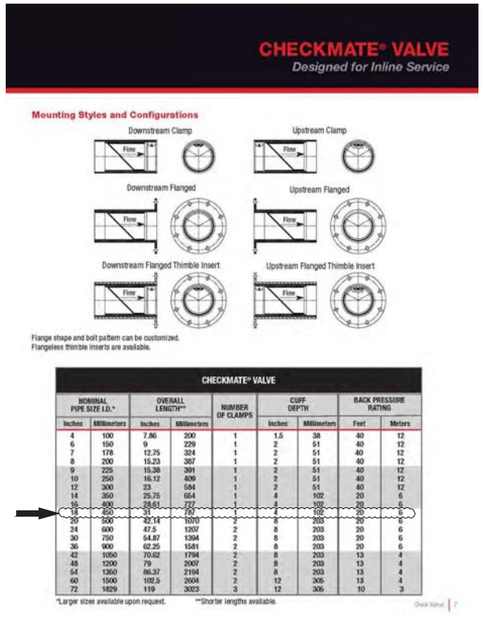


TOE DRAIN
NO SCALE

1



CHECKMATE® VALVE

NOMINAL PIPE SIZE I.D.*		OVERALL LENGTH**		NUMBER OF CLAMPS	CUFF DEPTH		BACK PRESSURE RATING	
Inches	Millimeters	Inches	Millimeters		Inches	Millimeters	Feet	Meters
4	100	7.86	200	1	1.5	38	40	12
6	150	9	229	1	2	51	40	12
7	178	12.75	324	1	2	51	40	12
8	200	15.23	387	1	2	51	40	12
9	225	15.38	391	1	2	51	40	12
10	250	16.12	409	1	2	51	40	12
12	300	23	584	1	2	51	40	12
14	350	25.75	654	1	4	102	20	6
16	400	28.61	727	1	4	102	20	6
18	450	31	787	1	4	102	20	6
20	500	42.14	1070	2	8	203	20	6
24	600	47.5	1207	2	8	203	20	6
30	750	54.87	1394	2	8	203	20	6
36	900	62.25	1581	2	8	203	20	6
42	1050	70.62	1794	2	8	203	13	4
48	1200	79	2007	2	8	203	13	4
54	1350	86.37	2194	2	8	203	13	4
60	1500	102.5	2604	2	12	305	13	4
72	1829	119	3023	3	12	305	10	3

*Larger sizes available upon request. **Shorter lengths available.

DETAIL 1 / C6.00

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION
1	06/24/19	DAM SAFETY COMMENTS

PROJECT NO: B0694
FILE: B0694-C-600-DETL.dwg
DRAWN BY:
CHECKED: JAC
APPROVED: DH

SITE DETAILS

SCALE: AS NOTED

C6.10

06/17/2019

Last Saved: 6/5/2019
Plotted On: Jun 17, 2019 11:31am By: Canas
File: K:\Bridgeport\B0694\Drawings\Sheet\Design\B0694-C-600-DETL.dwg



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SCALE IN FEET
0 100' 200'
GRAPHIC SCALE

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION
1	02/15/19	REMOVED EXTRA STORAGE AREA

PROJECT NO:	B0694
FILE:	B0694-C-700-WETL.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

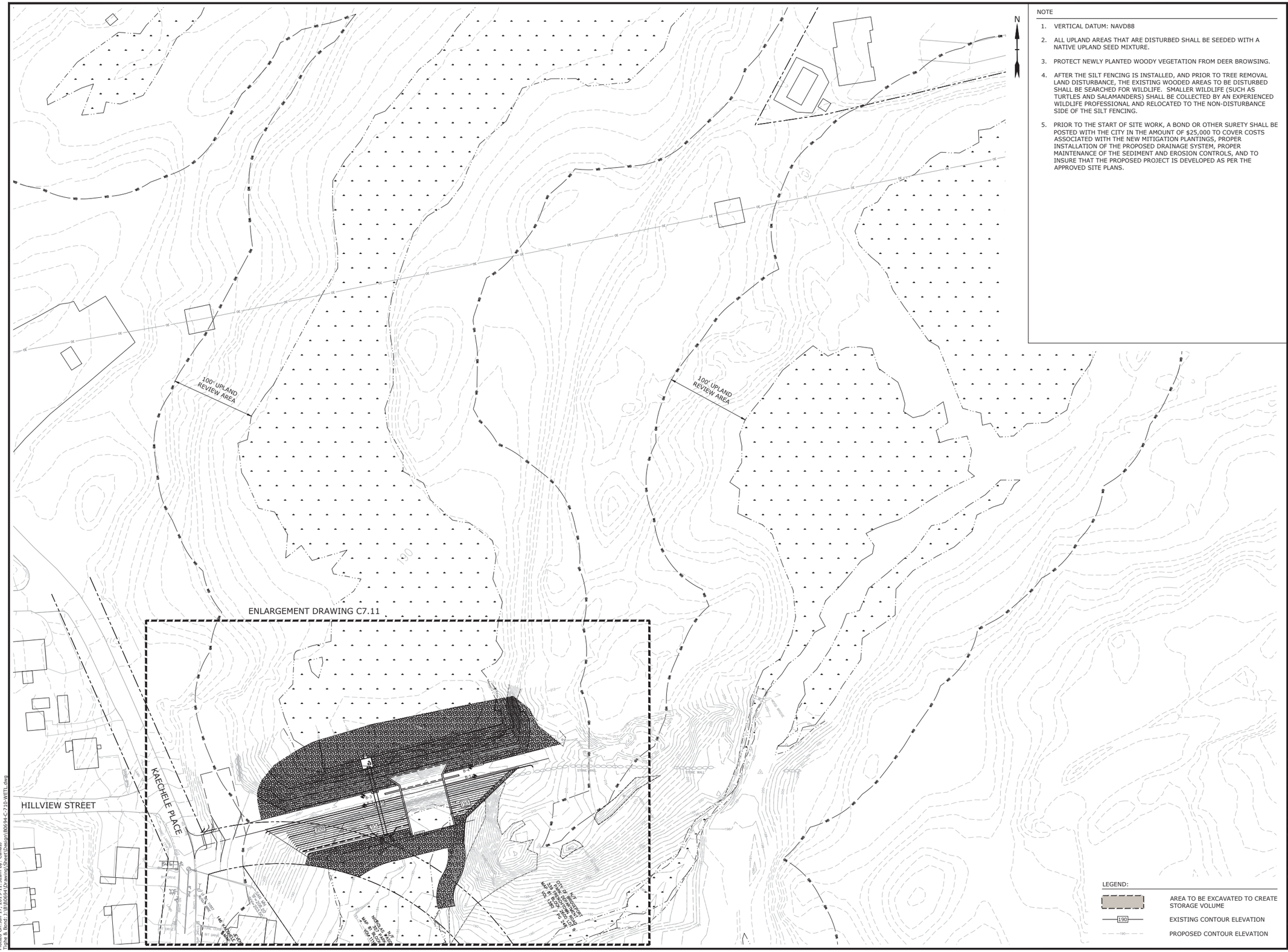
WETLAND IMPACTS

SCALE: 1" = 100'

C7.00

06/17/2019

Last Saved: 2/13/2019
Plotted: 02/15/2019 11:31am By: Canas
Tighe & Bond: J:\B\B0694\Drawing\Sheet\Design\B0694-C-700-WETL.dwg



NOTE

1. VERTICAL DATUM: NAVD88
2. ALL UPLAND AREAS THAT ARE DISTURBED SHALL BE SEEDED WITH A NATIVE UPLAND SEED MIXTURE.
3. PROTECT NEWLY PLANTED WOODY VEGETATION FROM DEER BROWSING.
4. AFTER THE SILT FENCING IS INSTALLED, AND PRIOR TO TREE REMOVAL LAND DISTURBANCE, THE EXISTING WOODED AREAS TO BE DISTURBED SHALL BE SEARCHED FOR WILDLIFE. SMALLER WILDLIFE (SUCH AS TURTLES AND SALAMANDERS) SHALL BE COLLECTED BY AN EXPERIENCED WILDLIFE PROFESSIONAL AND RELOCATED TO THE NON-DISTURBANCE SIDE OF THE SILT FENCING.
5. PRIOR TO THE START OF SITE WORK, A BOND OR OTHER SURETY SHALL BE POSTED WITH THE CITY IN THE AMOUNT OF $25,000 TO COVER COSTS ASSOCIATED WITH THE NEW MITIGATION PLANTINGS, PROPER INSTALLATION OF THE PROPOSED DRAINAGE SYSTEM, PROPER MAINTENANCE OF THE SEDIMENT AND EROSION CONTROLS, AND TO INSURE THAT THE PROPOSED PROJECT IS DEVELOPED AS PER THE APPROVED SITE PLANS.

SCALE IN FEET
0 50' 100'
GRAPHIC SCALE

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Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION
1	02/15/19	REVISED EXTRA STORAGE AREA

PROJECT NO:	B0694
FILE:	B0694-C-710-WETL.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

WETLAND PLANTING PLAN OVERVIEW

SCALE: 1" = 50'

C7.10

06/17/2019

Last Saved: 5/28/2019
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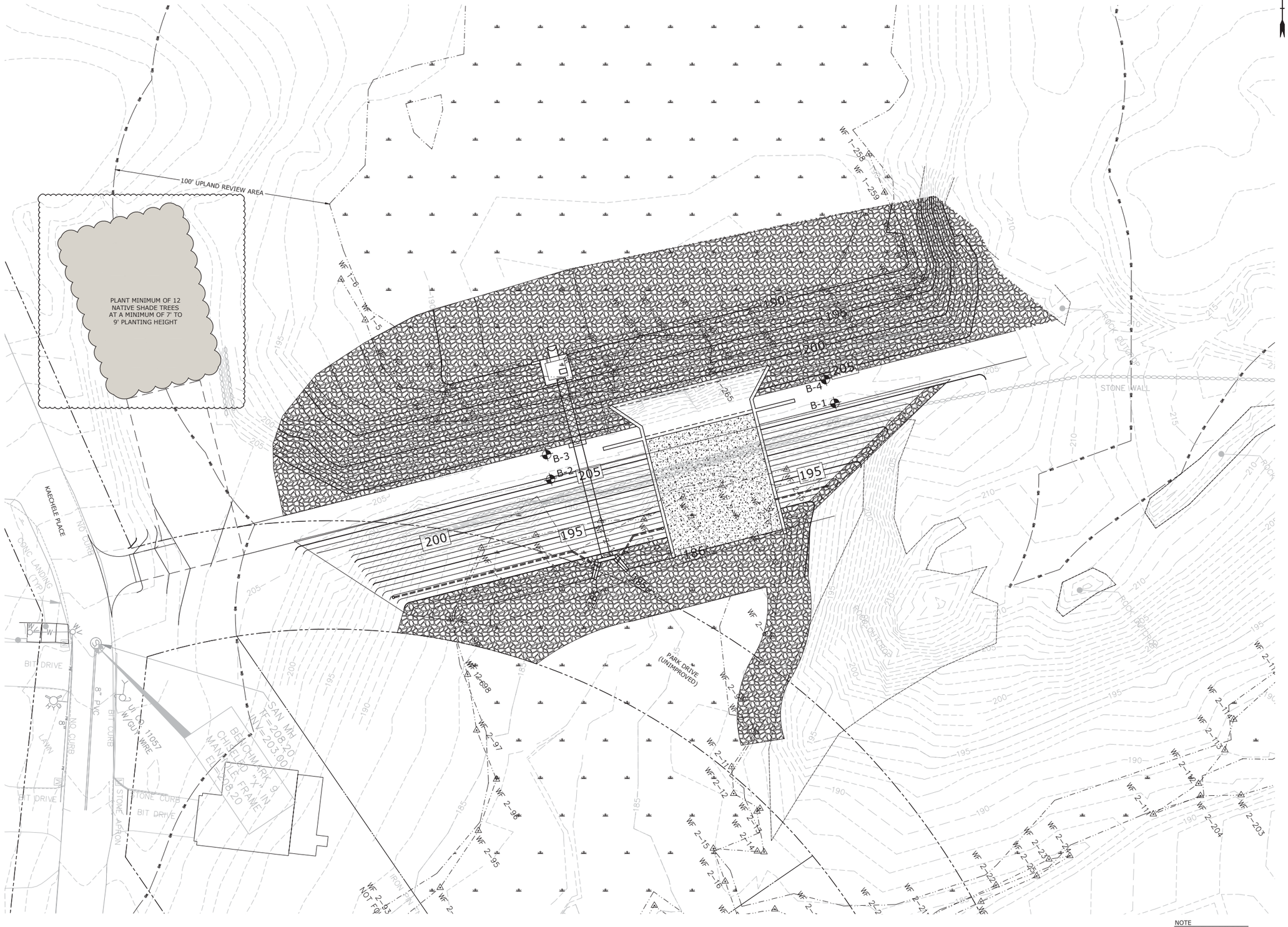
N
100' UPLAND REVIEW AREA
PLANT MINIMUM OF 12
NATIVE SHADE TREES
AT A MINIMUM OF 7' TO
9' PLANTING HEIGHT
WF 1-258
WF 1-259
WF 1-8
WF 1-5
B-1
B-2
B-3
B-4
205
200
195
190
185
210
215
KAECHELE PLACE
NO CURB
CONC LANDING (TYP)
BIT DRIVE
8" PVC
BIT CURB
LAWN
STONE CURB
STONE APRON
SAN MH
RIM=208.20
INV=203.00
BENCH MARK 9
CHISELED "X" IN
MANHOLE FRAME
ELEV=208.20
PARK DRIVE
(UNIMPROVED)
STONE WALL
ROCK OUTCROP
ROCK OUTCROP
WF 2-98
WF 2-97
WF 2-96
WF 2-95
WF 2-94
WF 2-93
WF 2-92
WF 2-91
WF 2-12
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WF

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GENERAL

G1 STRUCTURAL WORK SHALL CONFORM TO CONNECTICUT STATE BUILDING CODE, LATEST EDITION, INCLUDING MOST RECENT ADDENDA, AND CONTRACT DOCUMENTS. IN CASE OF CONFLICT, MOST STRINGENT REQUIREMENT SHALL GOVERN.

G2 CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS RELATED TO THIS PROJECT.

G3 CONTRACTOR SHALL EXAMINE DRAWINGS FOR ALL TRADES FOR THE VERIFICATION OF LOCATION AND DIMENSIONS OF ALL CHASES, INSERTS, OPENINGS, SLEEVES AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

G4 PROVIDE CAULKING AT ALL CONTROL JOINTS. PROVIDE COMPRESSIBLE FILLER AND SEALANT AT ALL EXPANSION AND ISOLATION JOINTS.

G5 PROVIDE PREMOLDED JOINT FILLER WHERE SLABS ON GRADE ABUT WALLS AND COLUMNS.

REINFORCEMENT

R1 DETAILING, FABRICATION, AND ERECTION OF REINFORCEMENT, UNLESS OTHERWISE NOTED, SHALL CONFORM TO ACI "BUIDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318)" AND ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315)", LATEST EDITION.

R2 STEEL REINFORCEMENT UNLESS OTHERWISE SHOWN SHALL CONFORM TO ASTM A615 GRADE 60 MINIMUM (YIELD STRENGTH - 60,000 PSI).

R3 PROVIDE AND SCHEDULE ON SHOP DRAWINGS, ALL NECESSARY ACCESSORIES TO HOLD REINFORCEMENT SECURELY IN POSITION: MINIMUM REQUIREMENTS SHALL BE: HIGH CHAIRS, 4'-0" ON CENTER, #5 SUPPORT BAR FOR HIGH CHAIRS, SLAB BOLSTERS, 3'-6" ON CENTER, ALL WIRE CHAIRS AND BOLSTERS TO BE PLASTIC TIPPED.

R4 THE CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT SHALL BE AS FOLLOWS, UNLESS OTHERWISE SHOWN:

(A) CAST-IN-PLACE CONCRETE.

	EXPOSED TO EARTH, WATER, OR WEATHER	NOT EXPOSED TO EARTH, WATER, OR WEATHER
(a) SLAB ON GRADE	3 INCHES	2 INCHES
(b) BEAM STIRRUPS	2 INCHES	1 1/2 INCHES
(c) BEAM MAIN REBARS	2 1/2 INCHES	2 INCHES
(d) SLAB'S #3 TO #5 INCL'S	1 1/2 INCHES	3/4 INCHES
(e) SLABS #6 TO #11 INCL'S	2 INCHES	3/4 INCHES
(f) WALL #11 BAR OR SMALLER	2 INCHES	3/4 INCHES

(g) Note: MAXIMUM DEVIATION FROM THESE REQUIREMENTS SHALL BE +1/4" FOR SECTIONS TEN (10) INCHES OR LESS, AND +1/2" FOR SECTIONS OVER TEN (10) INCHES THICK.

(B) IN NO CASE SHALL THE COVER BE LESS THAN THE BAR DIAMETER.

R5 WHERE CONTINUOUS BARS ARE CALLED FOR THEY SHALL BE RUN CONTINUOUSLY AROUND CORNERS AND LAPPED AT NECESSARY SPLICES OR HOOKED AT DISCONTINUOUS ENDS.

R6 WHERE REINFORCEMENT IS NOT SHOWN ON DRAWINGS, PROVIDE REINFORCEMENT IN ACCORDANCE WITH APPLICABLE TYPICAL DETAILS OR SIMILAR TO THAT SHOWN FOR MOST NEARLY SIMILAR SITUATIONS, AS DETERMINED BY THE ENGINEER. IN NO CASE SHALL REINFORCEMENT BE LESS THAN MINIMUM REINFORCEMENT PERMITTED BY THE APPLICABLE CODES, NOR LESS THAN THE FOLLOWING:

(A) STRUCTURAL SLABS-.0028 GROSS CONCRETE AREA IN EACH DIRECTION
(B) STRUCTURAL WALLS-.0028 GROSS CONCRETE AREA IN EACH DIRECTION

R7 WHERE REINFORCEMENT IS CALLED FOR IN SECTION, REINFORCEMENT IS CONSIDERED TYPICAL WHEREVER THE SECTION APPLIES.

R8 REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

R9 REINFORCEMENT COUPLER SPLICES SHALL BE MECHANICAL DEVICES CAPABLE OF TRANSMITTING THE ULTIMATE TENSILE AND COMPRESSIVE STRENGTH OF THE BAR.

R10 INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO SCHEDULED CONCRETE PLACEMENT. NOTIFY ENGINEER OF COMPLETION AT LEAST 24 HOURS PRIOR TO SCHEDULED COMPLETION OF PLACEMENT OR REINFORCEMENT.

R11 REINFORCEMENT SHALL BE SET BEFORE PLACING CONCRETE. SETTING ANY REINFORCEMENT INTO WET CONCRETE IS PROHIBITED.

CONCRETE

C1 CONCRETE WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318), AND SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING (ACI 301).

C2 CONCRETE SHALL BE CONTROLLED CONCRETE, PROPORTIONED, MIXED AND PLACED UNDER THE SUPERVISION OF AN APPROVED CONCRETE TESTING AGENCY OR THE ENGINEER.

C3 CONCRETE SHALL BE NORMAL WEIGHT CONCRETE AND SHALL HAVE A COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED AND SHALL BE AIR ENTRAINED (SEE SPECS)

C4 THE USE OF CONSTRUCTION JOINTS WHERE SHOWN ON THE DRAWINGS IS MANDATORY. OMISSIONS, ADDITIONS OR CHANGES SHALL NOT BE MADE EXCEPT WITH THE SUBMISSION OF A WRITTEN REQUEST TOGETHER WITH DRAWINGS OF THE PROPOSED JOINT LOCATIONS FOR APPROVAL OF THE STRUCTURAL ENGINEER.

C5 WHERE CONSTRUCTION JOINTS ARE NOT SHOWN, DRAWINGS SHOWING LOCATION OF CONSTRUCTION JOINTS AND CONCRETE PLACING SEQUENCE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PREPARATION OF THE REINFORCEMENT SHOP DRAWINGS.

C6 CONCRETE SLABS SHALL BE CAST SO THAT THE SLAB THICKNESS IS AT NO POINT LESS THAN THAT INDICATED ON THE DRAWINGS.

C7 CONCRETE SLABS AND WALLS SHALL BE CAST ALTERNATELY OR IN A CHECKERBOARD FASHION SO THAT ADJACENT SECTIONS ARE PLACED NO SOONER THAN THREE DAYS APART. AT LEAST TWO DAYS MUST ELAPSE AFTER PLACING CONCRETE IN WALLS BEFORE PLACING FLOOR SYSTEM SUPPORTED THEREON.

C8 CONCRETE SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS EXCEPT WHERE SHOWN OR NOTED.

C9 EXPOSED EDGES OF CONCRETE ELEMENTS SHALL HAVE CHAMFERED CORNERS.

C10 ONLY CRITICAL CONSTRUCTION JOINTS ARE SHOWN. SEE SPECIFICATIONS FOR REQUIRED MAXIMUM SPACING OF CONSTRUCTION JOINTS.

FOUNDATIONS

F1 NO CONCRETE SHALL BE PLACED IN WATER OR ON FROZEN GROUND.

F2 BOTTOM OF FOUNDATION ELEVATIONS GIVEN ON DRAWINGS ARE TO BE CONSIDERED MINIMUM DEPTHS. CONTRACTOR SHALL HAVE FURTHER EXCAVATION AS REQUIRED TO REACH GOOD BEARING.

F3 ALL EXCAVATIONS FOR FOOTINGS SHALL BE FINISHED BY HAND FOR THE LAST 6".

F4 ALL FINISHED EXCAVATIONS SHALL BE INSPECTED BY THE ENGINEER BEFORE ANY CONCRETE IS PLACED.

F5 ALL BACKFILL UNDER OR ADJACENT TO ANY PORTION OF THE STRUCTURES SHALL BE COMPACTED IN 6" LIFTS. SEE SPECIFICATIONS.

F6 REMOVE UNSUITABLE FILL AND/OR IMPROVE THE SUBGRADE PER SPECIFICATION REQUIREMENTS. BACKFILL WITH COMPACTED STRUCTURAL (GRANULAR) FILL.

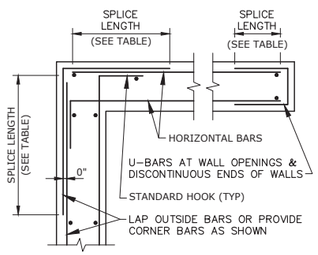
F7 ALL EMBANKMENT MATERIALS SHALL BE PLACED ON FIRM, UNSATURATED MATERIALS, FREE OF ORGANICS, FROZEN, OR OTHERWISE DELETERIOUS MATERIALS. THE PROJECT ENGINEER SHALL REVIEW ALL FOUNDATION PREPARATION AND CONFIRM ITS SUITABILITY PRIOR TO PLACEMENT OF EMBANKMENT MATERIALS. THE ENGINEER MAY ORDER THAT UNSUITABLE MATERIALS BE REPLACED AND PREPARED APPROPRIATELY AS IDENTIFIED IN NOTE F6.

BAR SIZE DESIGNATION		DEVELOPMENT LENGTH (INCHES)	SPLICE LENGTH (INCHES)	
ENGLISH	METRIC	Ld	CLASS B	CLASS B TOP BARS
#5	#16	24	31	40
#6	#19	29	37	48
#7	#22	42	54	70
#8	#25	48	62	81

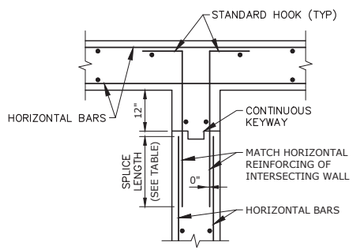
REBAR SPLICE LENGTH SCHEDULE

NOTES:

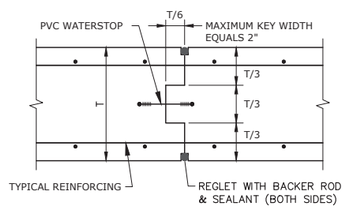
1. IF CLEAR SPACING BETWEEN THE REBARS IS LESS THAN THREE BAR DIAMETERS, OR IF COVER IS LESS THAN TWO BAR DIAMETERS, INCREASE THE SPLICE LENGTH BY AN ADDITIONAL 50%.
2. IF EPOXY COATED REBAR IS USED, INCREASE THE SPLICE LENGTH BY AN ADDITIONAL 50%.
3. IF LIGHTWEIGHT CONCRETE IS USED, INCREASE THE SPLICE LENGTH BY AN ADDITIONAL 30%.
4. THE MINIMUM REBAR SPLICE LENGTH SCHEDULE IS BASED ON F'c= 4,000 PSI AND Fy= 60,000 PSI. ADJUST FOR OTHER STRENGTHS USING ACI-318.
5. FOR HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW, INCREASE THE DEVELOPMENT LENGTH BY AN ADDITIONAL 30%.
6. WHEN BARS OF DIFFERENT SIZE ARE LAP SPLICED, THE SPLICE LENGTH SHALL BE THE LARGER OF EITHER THE DEVELOPMENT LENGTH OF THE LARGER BAR OR THE SPLICE LENGTH OF THE SMALLER BAR.



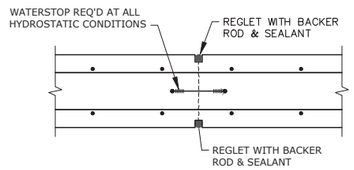
PLAN OF HORIZONTAL REINFORCING AT CORNERS OF CONCRETE WALLS
NO SCALE



PLAN OF HORIZONTAL REINFORCING AT CONCRETE WALL INTERSECTIONS
NO SCALE



CONSTRUCTION JOINT
NO SCALE



NOTE:
CONCRETE IS PLACED MONOLITHICALLY ON BOTH SIDES OF ALL CONTRACTION JOINTS

CONCRETE WALL CONTRACTION JOINT
NO SCALE

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION
1	06/24/19	DAM SAFETY COMMENTS

PROJECT NO: B0694
FILE: B0694-S-100-STRUC.dwg
DRAWN BY: T&B
CHECKED: JAC
APPROVED: DH

STRUCTURAL GENERAL NOTES AND DETAILS

SCALE: AS NOTED

S1.00

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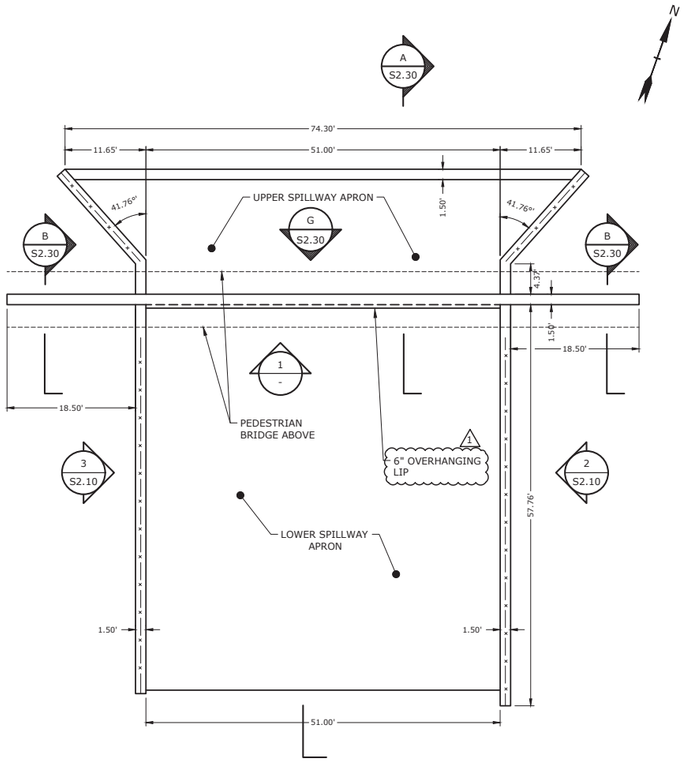
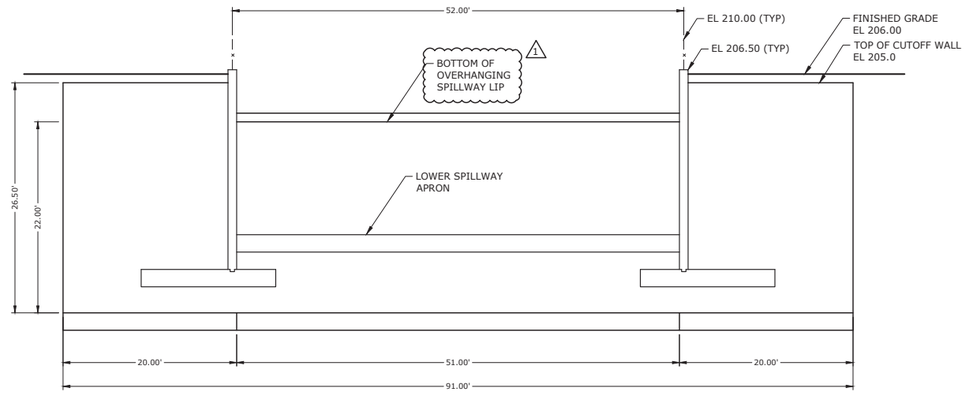


SPILLWAY DETAIL - PLAN VIEW
SCALE: 1"=10'



SPILLWAY CUTOFF WALL ELEVATION

ELEVATION 1 -
SCALE: 1/8" = 1'

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Elton Rogers Park Dam Reconstruction

City of Bridgeport

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1	06/24/19	DAM SAFETY COMMENTS

PROJECT NO:	B0694
FILE: B0694-S-100-STRUC.dwg	
DRAWN BY:	RAS
CHECKED:	JAC
APPROVED:	DH

SPILLWAY PLAN AND ELEVATION

SCALE: AS NOTED

S2.00

06/17/2019

Last Saved: 5/28/2019
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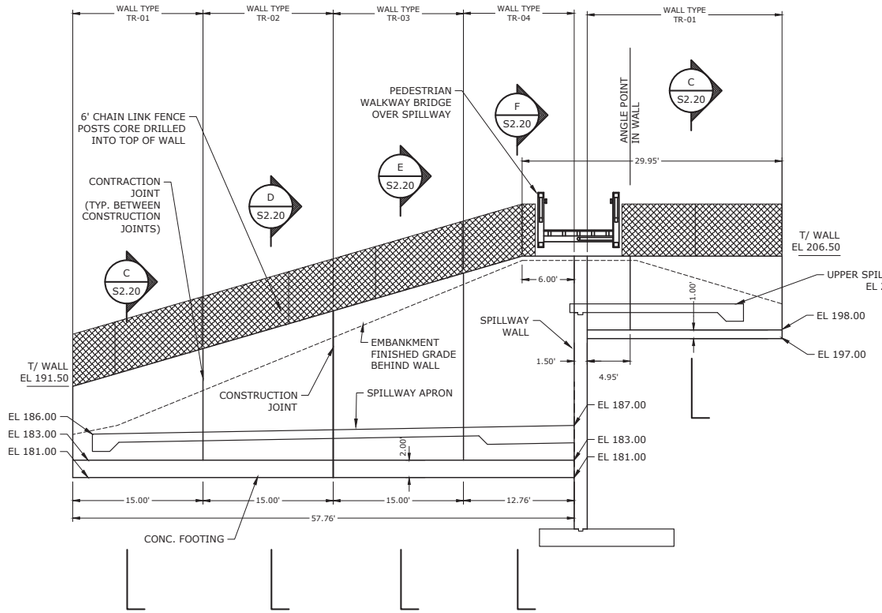
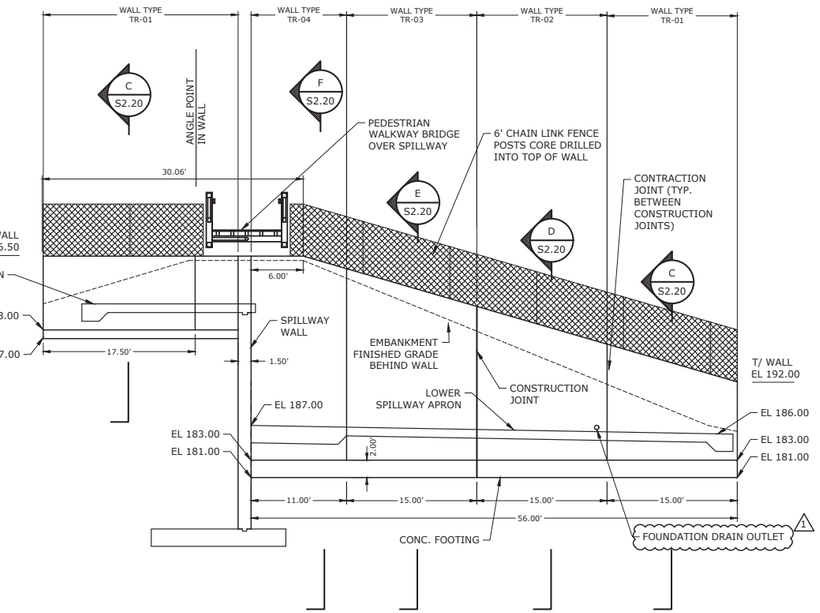


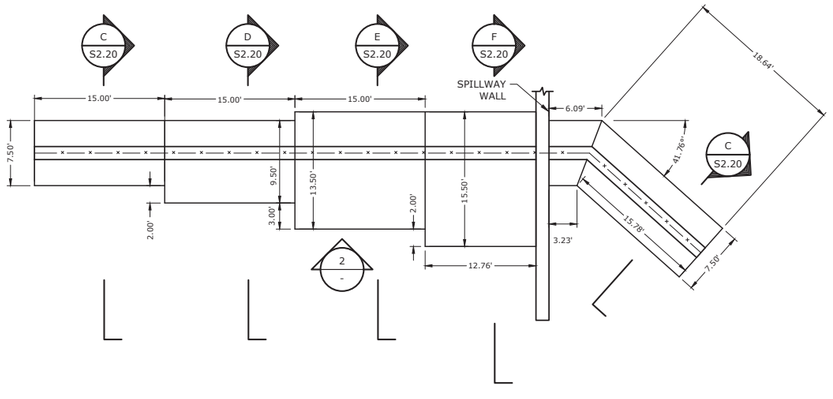
EAST TRAINING WALL DETAIL - ELEVATION

ELEVATION 2 S2.00
SCALE: 1/8" = 1'

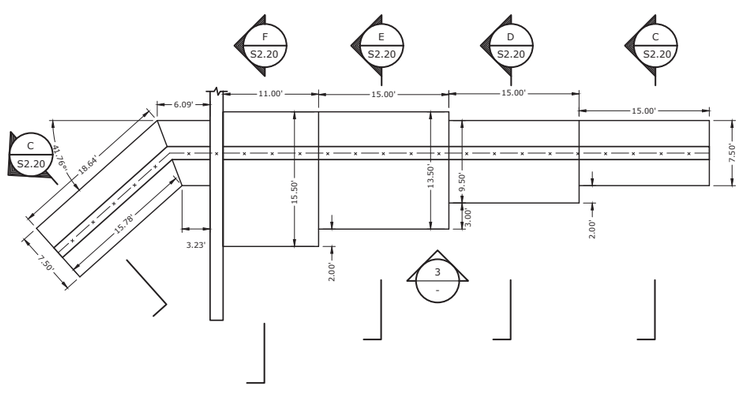


WEST TRAINING WALL DETAIL - ELEVATION

ELEVATION 3 S2.00
SCALE: 1/8" = 1'



EAST TRAINING WALL FOOTING DETAIL - PLAN VIEW
SCALE: 1"=8'



WEST TRAINING WALL FOOTING DETAIL - PLAN VIEW
SCALE: 1"=8'

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Elton Rogers Park Dam Reconstruction

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SPILLWAY WALL ELEVATIONS AND FOUNDATION PLAN

SCALE: AS NOTED

S2.10

Last Saved: 5/28/2019
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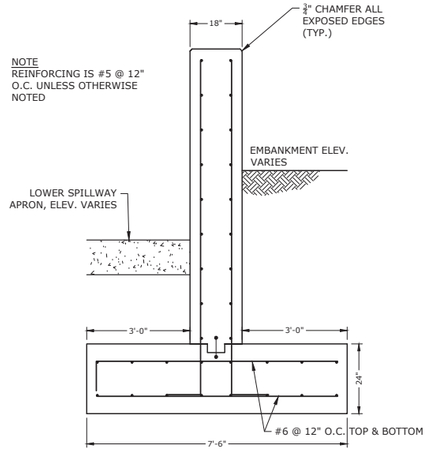
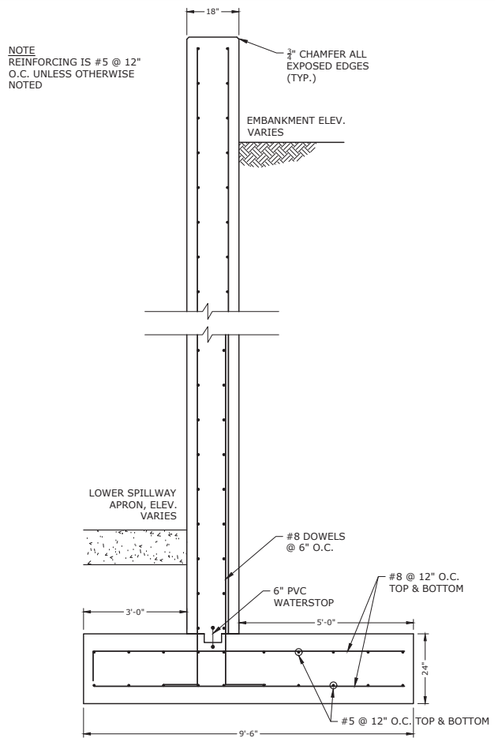


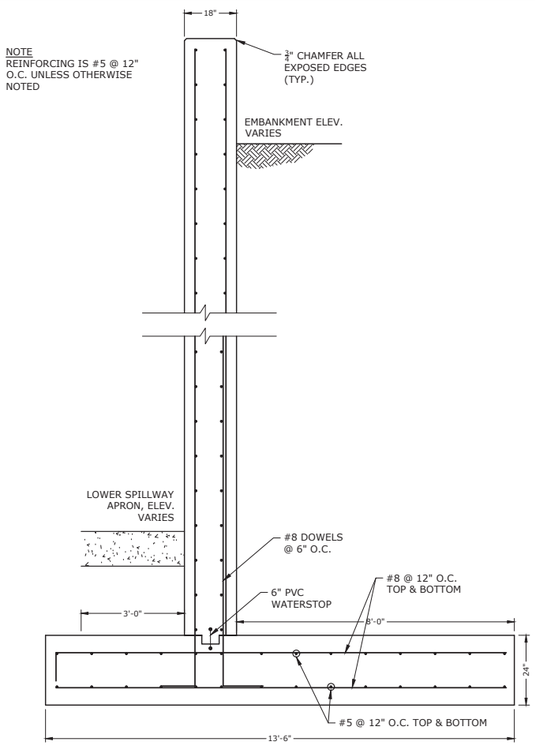
WALL TYPE TR-1

SECTION C
SCALE: 1/2" = 1'



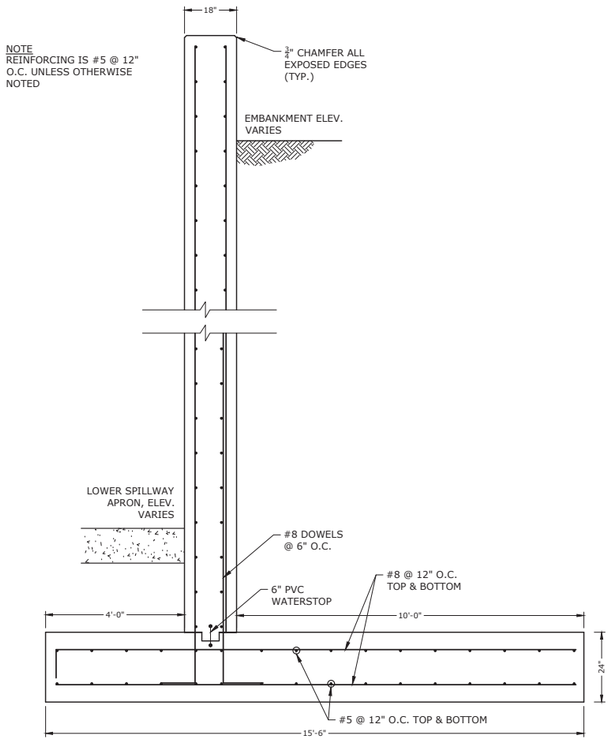
WALL TYPE TR-2

SECTION D
SCALE: 1/2" = 1'



WALL TYPE TR-3

SECTION E
SCALE: 1/2" = 1'



WALL TYPE TR-4

SECTION F
SCALE: 1/2" = 1'

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Elton Rogers Park Dam Reconstruction

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DRAWN BY:	RAS
CHECKED:	JAC
APPROVED:	DH

SPILLWAY WALL SECTIONS

SCALE: AS NOTED

S2.20

06/17/2019

Last Saved: 5/28/2019
Plotted On:Jun 17, 2019-11:34am By: CanasJ
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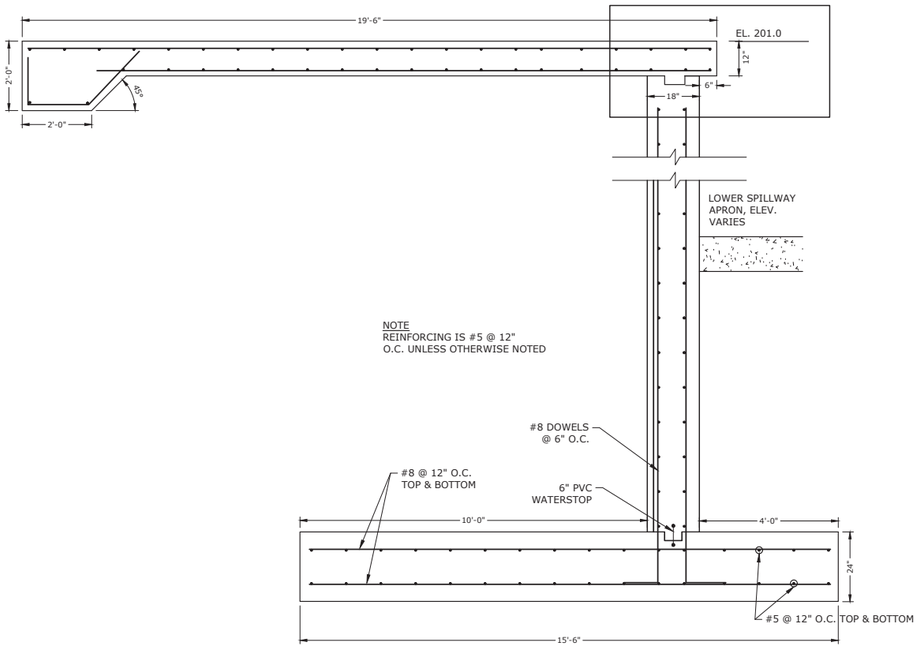
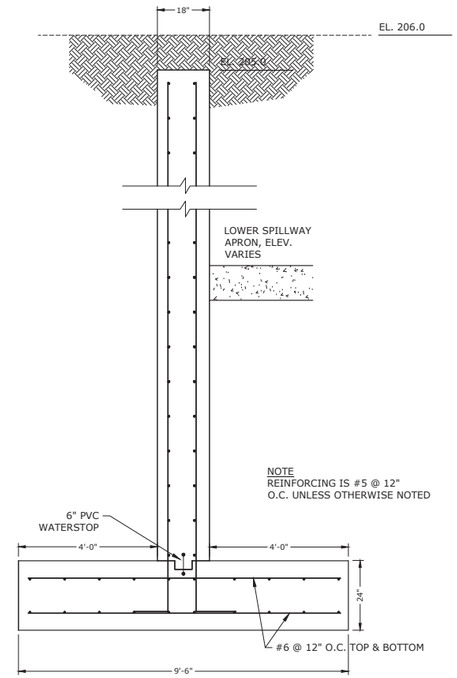


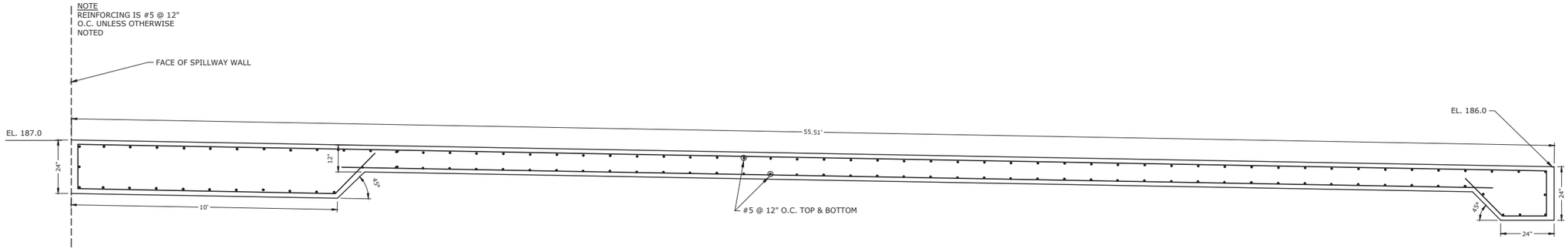
SPILLWAY WALL

SECTION A S2.00
SCALE: 1/2" = 1'



CUTOFF WALL

SECTION B S2.00
SCALE: 1/2" = 1'



LOWER SPILLWAY APRON

SECTION G S2.00
SCALE: 1/2" = 1'

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SPILLWAY
WALL SECTIONS

SCALE: AS NOTED

S2.30

06/17/2019

Last Saved: 5/28/2019
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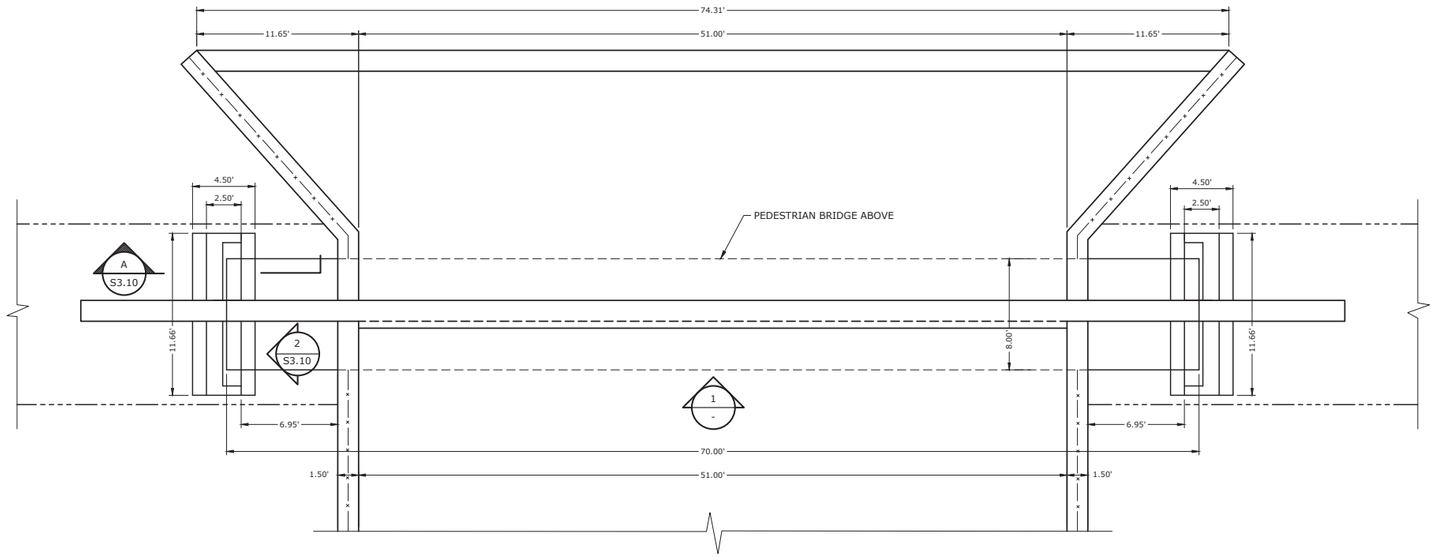
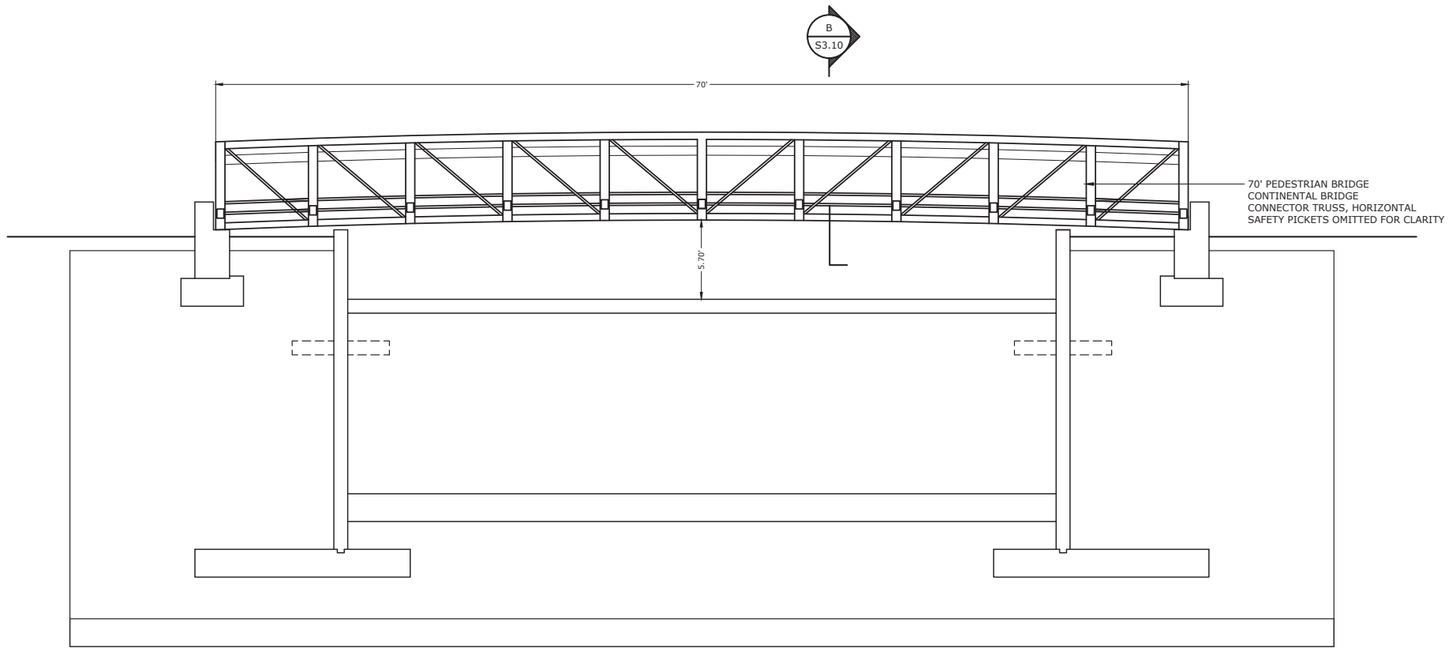


OVERFLOW STRUCTURE DETAILS - PLAN VIEW
SCALE: 1"=5'



PEDESTRIAN BRIDGE OVER SPILLWAY

ELEVATION 1 -
SCALE: 1" = 5'

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Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

September 30, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE: B0694-S-100-STRUC.dwg	
DRAWN BY:	RAS
CHECKED:	JAC
APPROVED:	DH

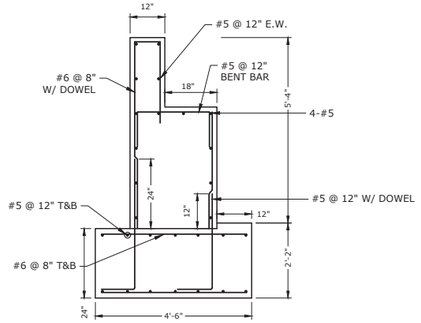
PEDESTRIAN BRIDGE OVER SPILLWAY

SCALE: AS NOTED

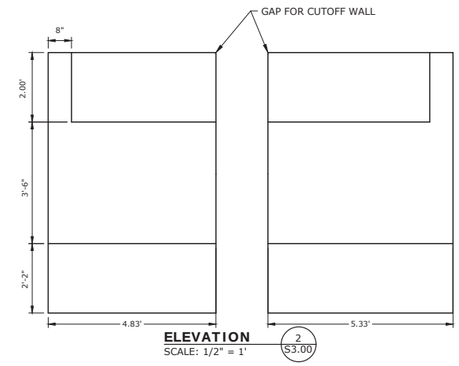
S3.00

06/17/2019

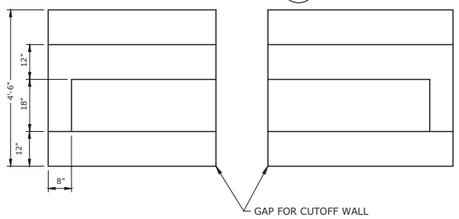
Last Saved: 5/28/2019
Plotted On: Jun 17, 2019-11:35am By: CanasJ
Tighe & Bond:J:\B\B0694\Drawing\Sheet\Design\B0694-S-100-STRUC.dwg



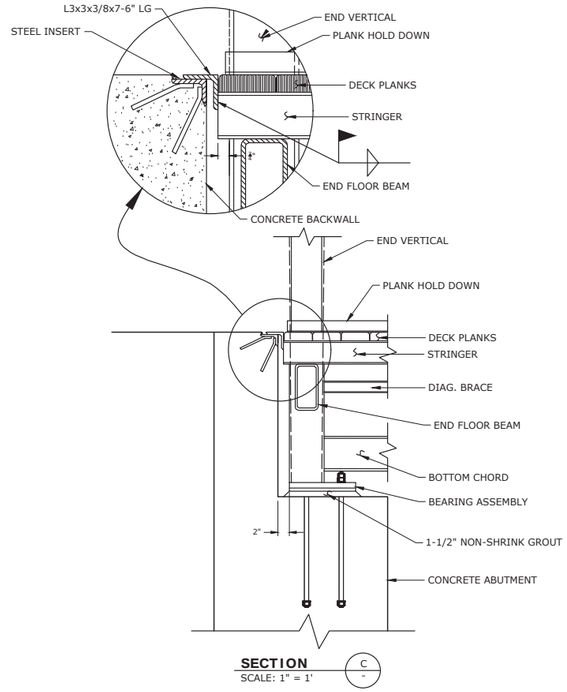
SECTION (A / S3.00)
SCALE: 1/2" = 1'



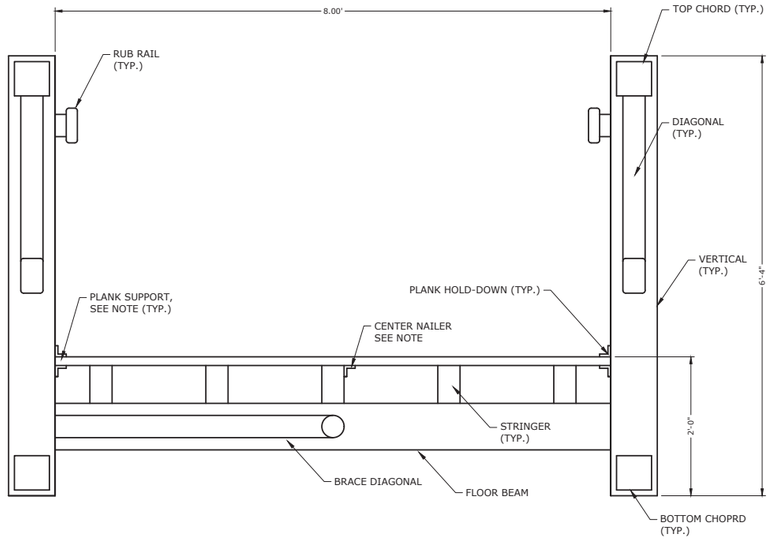
ELEVATION (2 / S3.00)
SCALE: 1/2" = 1'



PLAN

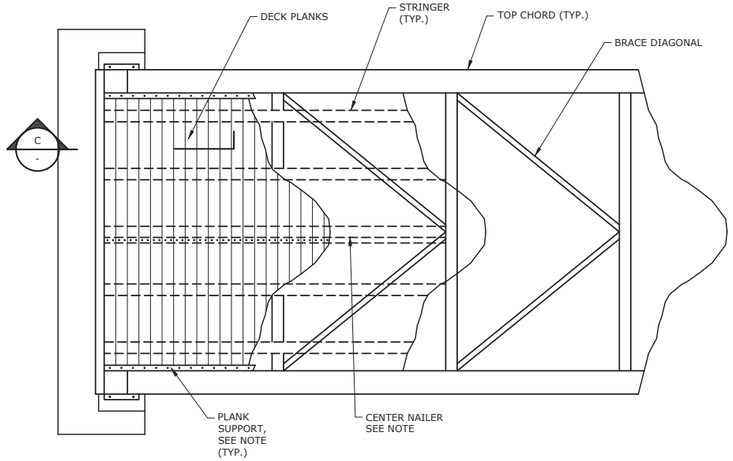


SECTION (C / -)
SCALE: 1" = 1'



NOTE
1. USE $\frac{3}{16}$" DIA. TORX NUTTON HEAD GR8 ACQ OLIVE DRAB PLATED SELF-TAPPING SCREWS FOR PLANK ATTACHMENT.
2. USE ONE SCREW PER PLANK AT EACH PLANK HOLD DOWN AND TWO SCREWS PER PLANK AT CENTER NAILER

SECTION (B / S3.00)
SCALE: 1" = 1'



NOTE
1. USE $\frac{3}{16}$" DIA. TORX NUTTON HEAD GR8 ACQ OLIVE DRAB PLATED SELF-TAPPING SCREWS FOR PLANK ATTACHMENT.
2. USE ONE SCREW PER PLANK AT EACH PLANK HOLD DOWN AND TWO SCREWS PER PLANK AT CENTER NAILER

BRIDGE PARTIAL PLAN
SCALE: 1/4" = 1'

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Elton Rogers Park Dam Reconstruction

City of Bridgeport

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September 30, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-S-100-STRUC.dwg
DRAWN BY:	RAS
CHECKED:	JAC
APPROVED:	DH

SPILLWAY BRIDGE SECTIONS AND DETAILS

SCALE: AS NOTED

S3.10

06/17/2019

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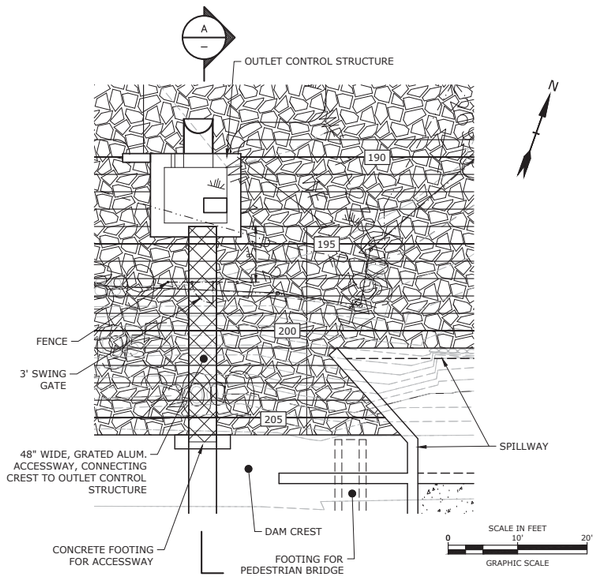
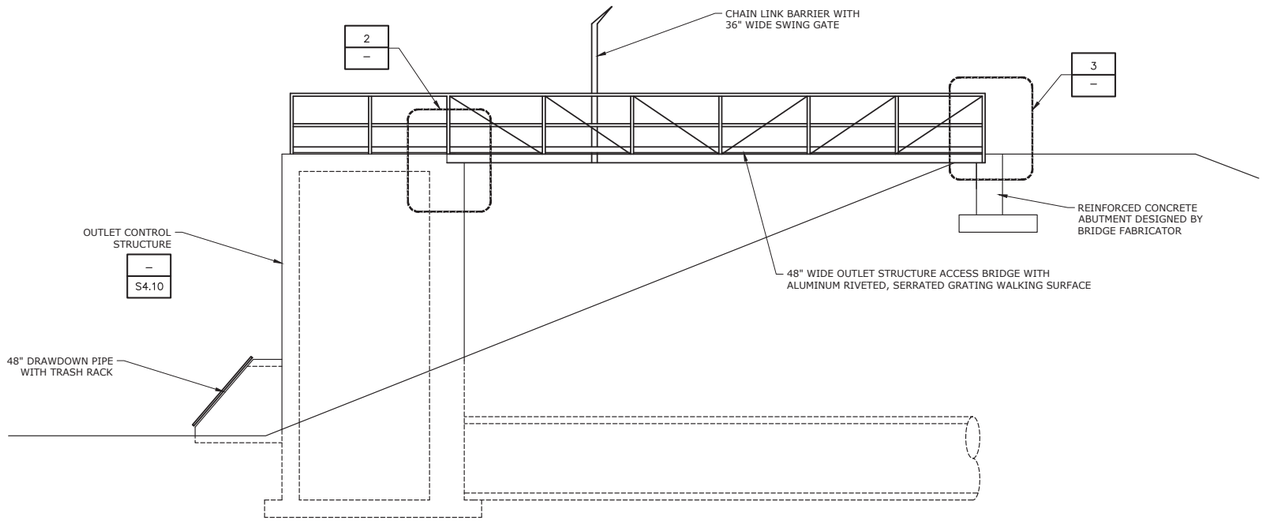
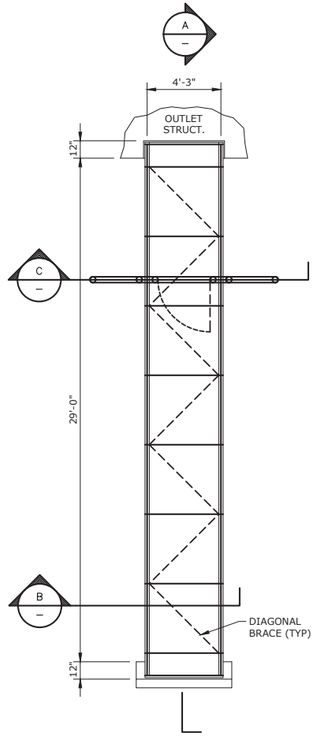


OUTLET STRUCTURE ACCESS BRIDGE ENLARGEMENT

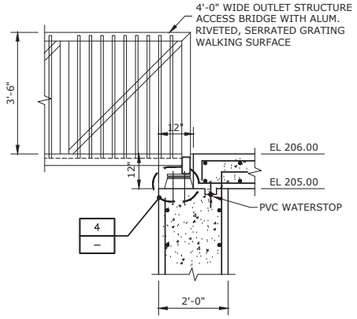
DETAIL 1 / 1" = 10'



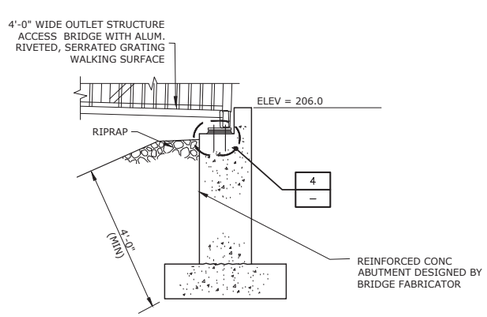
A – CROSS SECTION AT OUTLET CONTROL ACCESS BRIDGE
SCALE: 1" = 4'



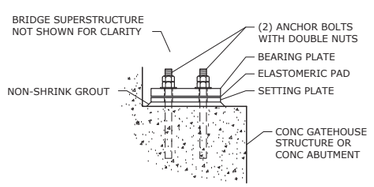
OUTLET STRUCTURE ACCESS BRIDGE
1/4"=1'-0"



DETAIL 2 / 1/2"=1'-0"



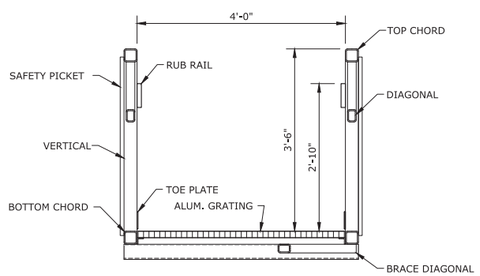
DETAIL 3 / 1/2"=1'-0"



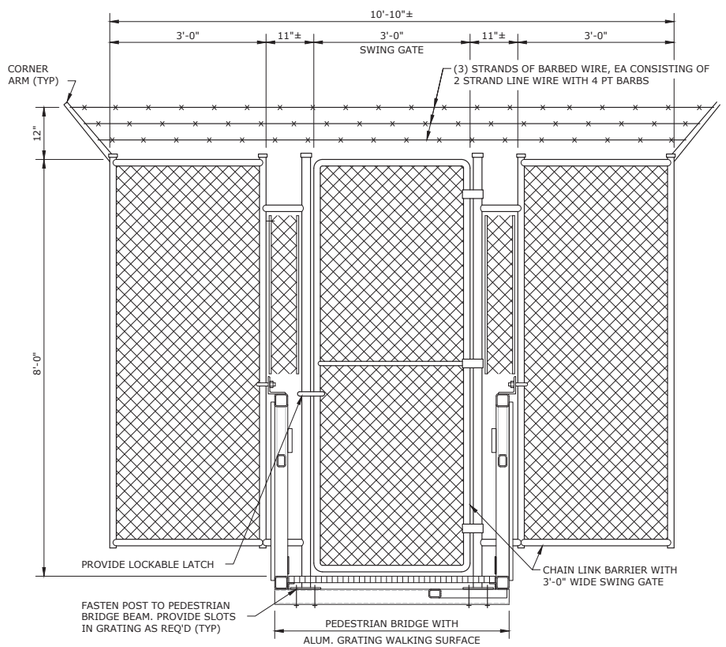
NOTE:
SETTING PLATE, ELASTOMERIC PAD, BEARING PLATE, AND ANCHOR BOLTS FURNISHED BY PEDESTRIAN BRIDGE MANUFACTURER.

OUTLET STRUCTURE ACCESS BRIDGE BEARING PLATE

DETAIL 4 / NO SCALE



B – OUTLET STRUCTURE ACCESS BRIDGE SECTION
SCALE: 3/4" = 1'



C – ACCESS GATE SECTION
SCALE: 3/4" = 1'

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September 30, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-S-400-STRUC.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

OUTLET CONTROL STRUCTURE DETAILS

SCALE: AS NOTED

S4.00

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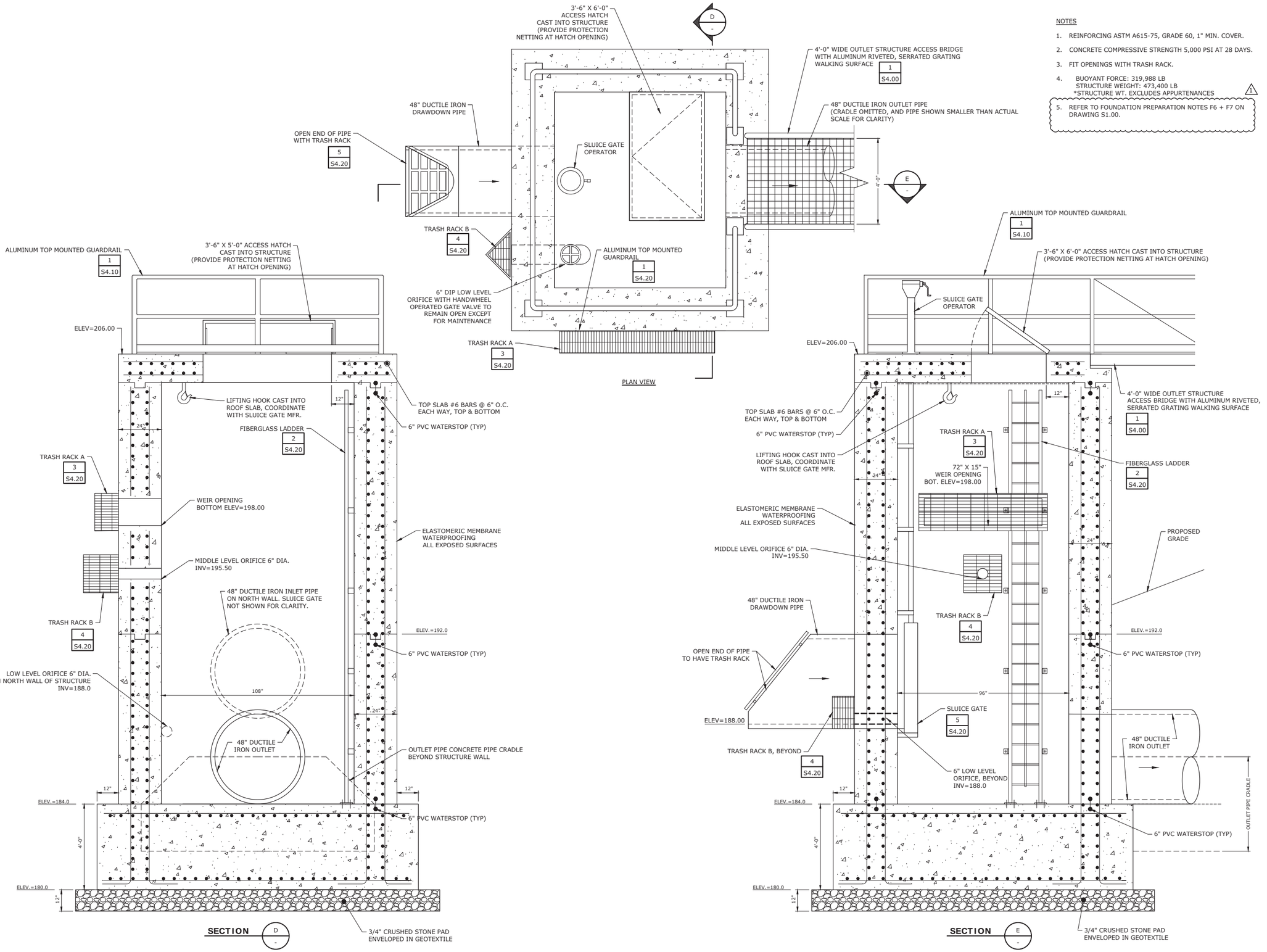

NOTES

1. REINFORCING ASTM A615-75, GRADE 60, 1" MIN. COVER.
2. CONCRETE COMPRESSIVE STRENGTH 5,000 PSI AT 28 DAYS.
3. FIT OPENINGS WITH TRASH RACK.
4. BUOYANT FORCE: 319,988 LB
   STRUCTURE WEIGHT: 473,400 LB
   *STRUCTURE WT. EXCLUDES APPURTENANCES
5. REFER TO FOUNDATION PREPARATION NOTES F6 + F7 ON DRAWING S1.00.

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MARK	DATE	DESCRIPTION
1	06/24/19	DAM SAFETY COMMENTS

PROJECT NO:	B0694
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DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

OUTLET CONTROL STRUCTURE DETAILS

SCALE: AS NOTED

S4.10

06/17/2019

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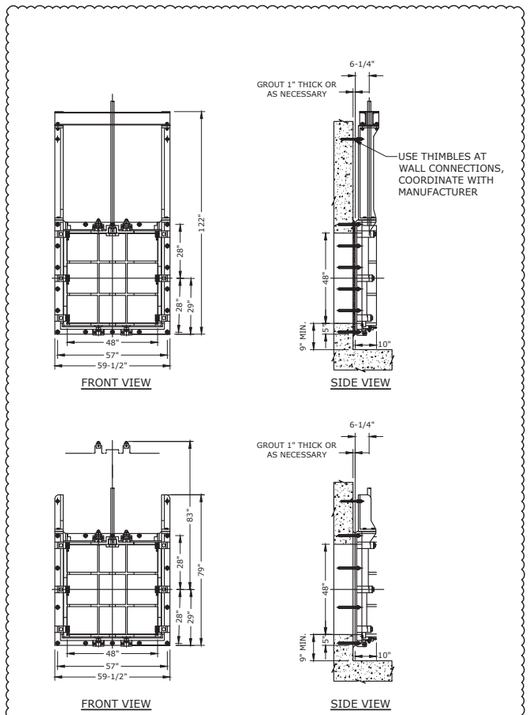


FRONT VIEW SIDE VIEW

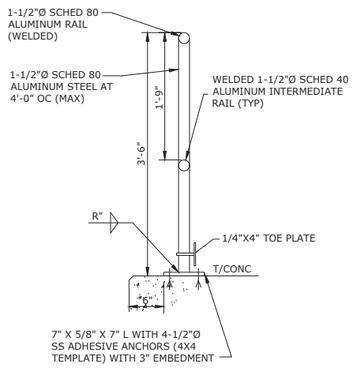
FRONT VIEW SIDE VIEW

NOTES:

1. SLUICE GATE SHALL BE MOUNTED USING CAST-IN-PLACE THIMBLES
2. GATE TO BE 48" x 48" CAST IRON INTEGRAL FRAME SLIDE GATE BY RODNEY HUNT, ORANGE, MA, MODEL A-103.

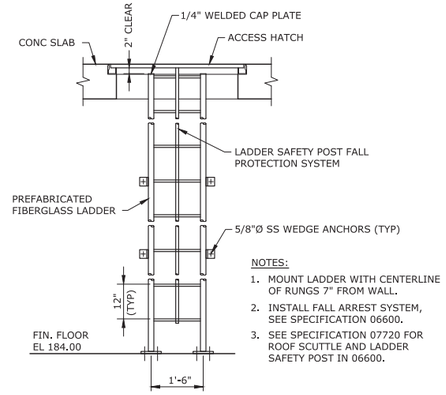
SLUICE GATE
NO SCALE

DETAIL 5 C4.20



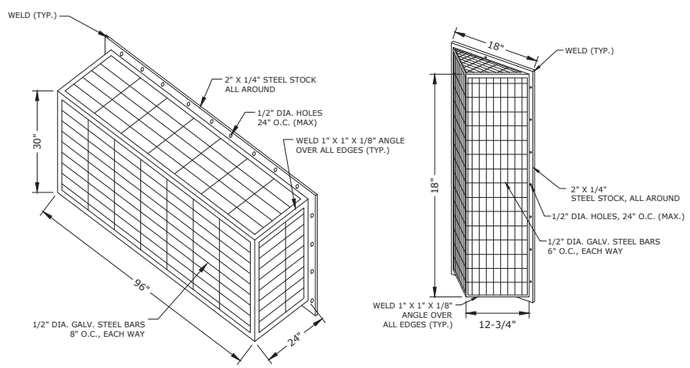
TOP MOUNTED GUARD RAIL DETAIL
NO SCALE

DETAIL 1 C4.10



FIBERGLASS LADDER
NO SCALE

DETAIL 2 C4.10



TRASH RACK A
NO SCALE

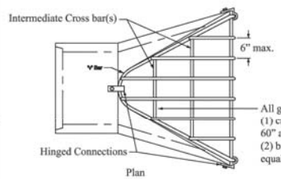
TRASH RACK B
NO SCALE

NOTES

1. TRASH RACK TO BE CENTERED OVER OPENING.
2. STEEL TO CONFORM TO ASTM A36.
3. ALL SURFACES TO BE COATED WITH ZRC COLD GALAVANIZING COMPOUND AFTER WELDING.
4. TRASH RACK TO BE FASTENED TO THE WALL WITH 1/2" MASONRY ANCHORS.
5. TRASH RACK SHALL BE REMOVABLE.

DETAIL 4 C4.10

Trash Guard For Flared Ends



Round		Arch	
Pipe Size	H	Pipe Size	H
12"	2-1/2"	22"-29"	4"
15"	3"	36"-44"	5"
18"-24"	4"	51"-65"	6"
27"-36"	5"	73"-102"	7"
42"-54"	6"		
60"-72"	7"		
78"-90"	8"		

Hot dip galvanized per ASTM A123

Bar Sizes

Standard Design					Heavy Design				
	Pipe Size	Hole Dia. Required	Bolt Dia.	Bar Size		Pipe Size	Hole Dia. Required	Bolt Dia.	Bar Size
Round	12"-24"	3/4"	5/8"	5/8"	Round	12"-24"	3/4"	5/8"	3/4"
	27"-48"	7/8"	3/4"	3/4"		27"-48"	7/8"	3/4"	1"
	54"-90"	1-1/8"	1"	1"		54"-90"	1-1/8"	1"	1-1/4"
Arch	22"-29"	3/4"	5/8"	5/8"	Arch	22"-29"	3/4"	5/8"	3/4"
	36"-59"	7/8"	3/4"	3/4"		36"-59"	7/8"	3/4"	1"
	65"-102"	1-1/8"	1"	1"		65"-102"	1-1/8"	1"	1-1/4"
Bolt Lg. = Pipewall Thk. + 2-1/2"					Elliptical	14"x23"	3/4"	5/8"	3/4"
						19"x30"	3/4"	5/8"	3/4"
						24"x38"	7/8"	3/4"	3/4"
						29"x45"	7/8"	3/4"	3/4"
						34"x53"	7/8"	3/4"	3/4"
						38"x60"	7/8"	3/4"	3/4"
						43"x68"	1-1/8"	1"	1"
						48"x76"	1-1/8"	1"	1"
						53"x83"	1-1/8"	1"	1"

HAALA INDUSTRIES

1201 Hwy 4 South
Sleepy Eye, MN 56085
Ph: 507-794-5821
Fax: 507-794-5823
www.haala.com

Contact: Scott Haala
scott@haala.com
Ph: 507-794-5821 ext. 115
Cell: 507-920-9182

DETAIL 5 C4.10

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OUTLET CONTROL STRUCTURE DETAILS

SCALE: AS NOTED

S4.20

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06/17/2019

CITY OF BRIDGEPORT, CONNECTICUT

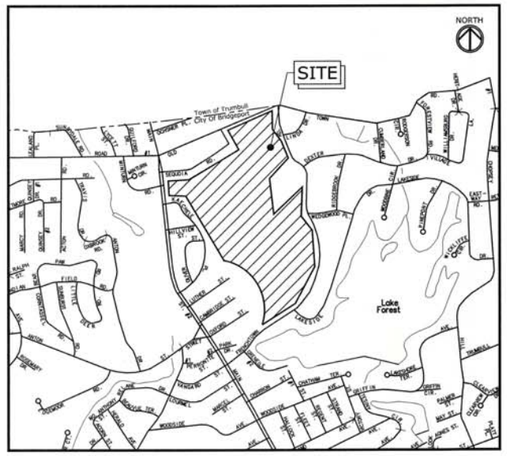
ELTON ROGERS PARK DAM RECONSTRUCTION

DAM CONSTRUCTION PERMIT SUBMISSION

SEPTEMBER 30, 2018

LIST OF DRAWINGS

SHEET NO.	TITLE
	COVER SHEET
C0.00	TYPICAL SECTIONS, GENERAL NOTES, ABBREVIATIONS AND LEGEND
C1.00	EXISTING CONDITIONS PLAN
C1.10	EXISTING CONDITIONS ENLARGEMENT
C1.20	SUBSURFACE EXPLORATION LOGS
C2.00	SITE PREPARATION PLAN
C3.00	INDEX PLAN
C3.10	OUTLET AREA ENLARGEMENT
C3.11	PRIMARY DAM ENLARGEMENT
C3.20	NORTHEAST AREA ENLARGEMENT
C4.00	CONSTRUCTION PHASING PLAN
C4.10	SEDIMENT AND EROSION CONTROL - PHASE 1
C4.20	SEDIMENT AND EROSION CONTROL - PHASE 2A & 2B
C4.30	SEDIMENT AND EROSION CONTROL - PHASE 3
C4.40	SEDIMENT AND EROSION CONTROL - PHASE 4
C4.50	SEDIMENTATION & EROSION CONTROL NOTES, NARRATIVE & DETAILS
C4.51	SEDIMENTATION & EROSION CONTROL DETAILS
C5.00	CROSS SECTIONS
C6.00	SITE DETAILS
C6.10	SITE DETAILS
C7.00	WETLAND IMPACTS
C7.10	WETLAND PLANTING PLAN OVERVIEW
C7.11	WETLAND PLANTING ENLARGEMENT PLAN - DAM AREA
C7.12	WETLAND PLANTING ENLARGEMENT PLAN - STORAGE EXPANSION AREA
S1.00	STRUCTURAL GENERAL NOTES AND DETAILS
S2.00	SPILLWAY PLAN AND ELEVATION
S2.10	SPILLWAY WALL ELEVATIONS AND FOUNDATION PLAN
S2.20	SPILLWAY WALL SECTIONS
S2.30	SPILLWAY WALL SECTIONS
S3.00	PEDESTRIAN BRIDGE OVER SPILLWAY
S3.10	SPILLWAY BRIDGE SECTIONS AND DETAILS
S4.00	OUTLET CONTROL STRUCTURE DETAILS
S4.10	OUTLET CONTROL STRUCTURE DETAILS
S4.20	OUTLET CONTROL STRUCTURE DETAILS



LOCATION MAP
SCALE: 1"=1000'

SCALE IN FEET
0 1000' 2000'
GRAPHIC SCALE

PREPARED BY:
Tighe&Bond
www.tighebond.com
1000 Bridgeport Avenue
Suite 320
Shelton, CT 06484
(203) 712-1100

DANA HUFF, P.E.

JOSEPH A. CANAS, P.E.

PREPARED FOR:
CITY OF BRIDGEPORT

COMPLETE SET 34 SHEETS

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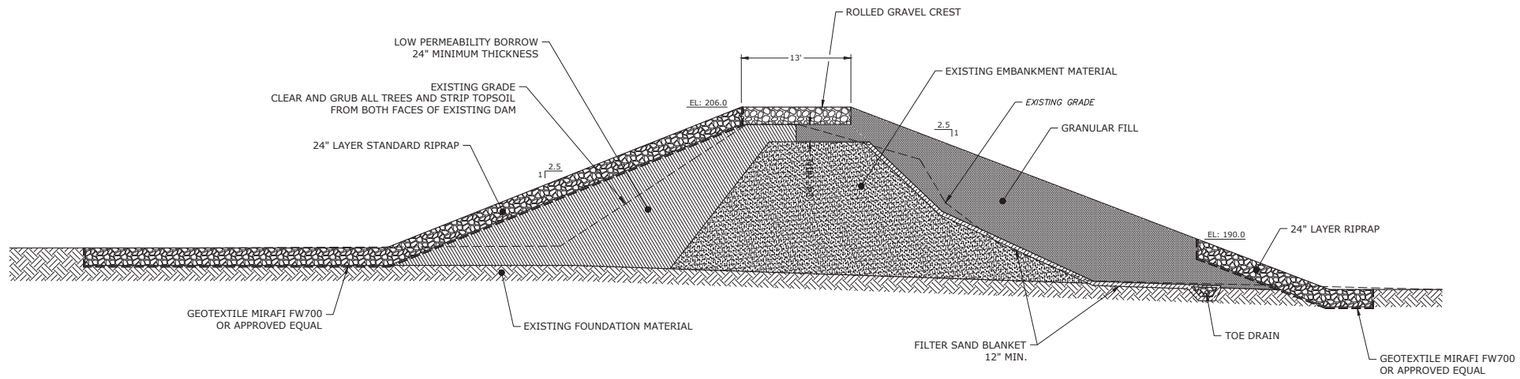

TYPICAL SECTION
SCALE: 1" = 8'

SCALE IN FEET
0 8' 16'
GRAPHIC SCALE

GENERAL NOTES

1. THE 90% DESIGN DRAWINGS ARE FOR DISCUSSION PURPOSES ONLY AND SHALL NOT BE USED FOR CONSTRUCTION.
2. ALL ELEVATIONS SHOWN ARE IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
3. EXISTING CONDITIONS INFORMATION IS COMPILED FROM CITY OF BRIDGEPORT GEOGRAPHIC INFORMATION SYSTEMS AND SURVEY INFORMATION PROVIDED BY PEREIRA ENGINEERING, SHELTON, CONNECTICUT.
4. TREE LOCATIONS AND SIZES SHOWN ARE TO BE VERIFIED BY THE CONTRACTOR IN THE FIELD. ALL TREES, WHETHER SHOWN OR NOT, CONFLICTING WITH THE WORK SHALL BE REMOVED AND PAID FOR AS PROVIDED FOR IN THE SPECIFICATIONS.
5. THE ACCURACY AND COMPLETENESS OF SUBSURFACE INFORMATION SHOWN ON THESE PLANS IS NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE FOR THEMSELF, PRIOR TO BIDDING, THE LOCATIONS AND ELEVATIONS OF ALL UTILITIES WHICH SHALL AFFECT THEIR CONSTRUCTION, THE CONTRACTOR MUST ADEQUATELY SUPPORT ALL UTILITIES AND SHALL BE RESPONSIBLE FOR ALL DAMAGE TO THESE LINES CAUSED BY THEIR OPERATIONS.
6. THE CONTRACTOR SHALL CONTACT THE TOLL FREE "CALL BEFORE YOU DIG" PHONE NUMBER 1-800-422-4455 OR 811, TWO BUSINESS DAYS BEFORE ANY EXCAVATION OCCURS.
7. PROPERTY LINES SHOWN ARE BASED UPON THE BEST AVAILABLE INFORMATION AND EXISTING MONUMENTS FOUND IN THE FIELD ARE T2 ACCURACY.
8. REINFORCED CONCRETE PIPE SHALL BE CLASS IV UNLESS OTHERWISE NOTED.
9. ANY EXISTING FEATURES DISTURBED OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE, AS ORDERED BY THE ENGINEER.
10. WETLANDS IDENTIFIED AND FLAGGED BY MATTHEW DAVISON, PSS, PWS, CPESC OF TIGHE & BOND.
11. ALL SURFACES NOT OTHERWISE TREATED WITH A SPECIFIED SURFACE TREATMENT SHALL BE SEEDED WITH NEW ENGLAND WETLAND PLANTS EROSION CONTROL/RESTORATION MIX.

ABBREVIATIONS

ALUM	ALUMINUM
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BIT	BITUMINOUS
BW	BOTTOM OF WALL ELEVATION
CB	CATCH BASIN
CM/S	CENTIMETERS PER SECOND
CONC	CONCRETE
CPESC	CERTIFIED PROFESSIONAL IN SEDIMENT & EROSION CONTROL
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
EL.	ELEVATION
ELEV	ELEVATION
EXIST	EXISTING
EW	ENDWALL
FT.	FOOT/FEET
GS ELEV.	GROUND SURFACE ELEVATION
H	HORIZONTAL
HW	HEADWALL
ID	INSIDE DIAMETER
IN.	INCHES
IN²	INCHES SQUARED
INV	INVERT
L	LONG
LB.	POUND
LBS.	POUNDS
LF	LINEAR FEET
MAX	MAXIMUM
MIN	MINIMUM
MH	MANHOLE
NAVD88	NORTH AMERICAN VERTICAL DATUM OF 1988
N/F	NOW OR FORMERLY
NO.	NUMBER
O.C.	ON CENTER
OD	OUTSIDE DIAMETER
OSHA	OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION
PE	PROFESSIONAL ENGINEER
PG	PAGE
PSI	POUNDS PER SQUARE INCH
PSS	PROFESSIONAL SOILS SCIENTIST
PWS	PROFESSIONAL WETLAND SCIENTIST
RCP	REINFORCED CONCRETE PIPE
R.O.W.	RIGHT-OF-WAY
SAN	SANITARY
SF	SQUARE FEET
TF	TOP OF FRAME
TW	TOP OF WALL ELEVATION
TYP	TYPICAL
V	VERTICAL
VERT. FT.	VERTICAL FEET
VOL	VOLUME
W	WIDE
WF	WETLAND FLAG
WT	WEIGHT
AASHTO	ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
CFR	CODE OF FEDERAL REGULATIONS

LEGEND:

- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN CATCH BASIN
- PROPOSED STORM DRAIN LINE
- B-XX — EXISTING BORING LOCATION
- PROPERTY LINE
- XXX — PROPOSED CONTOUR
- 185 — EXISTING CONTOUR
- WF 2-43 — WETLAND FLAG & BOUNDARY
- WETLAND AREA
- WB WB WB — WETLAND UPLAND REVIEW AREA
- EXISTING STONE WALL
- X / C.XX — CROSS-SECTION IDENTIFIER
- X / C.XX — ELEVATION IDENTIFIER
- X / C.XX — DETAIL IDENTIFIER

MATERIAL SPECIFICATIONS:

GRANULAR FILL. THIS MATERIAL SHALL HAVE THE PHYSICAL CHARACTERISTICS OF SOILS DESIGNATED AS TYPE GW, GP, GM, SW, SP OR SM, UNDER USCS AND SHALL NOT BE SPECIFIED AS GRAVEL BORROW, SAND BORROW, SPECIAL BORROW MATERIAL OR OTHER PARTICULAR KIND OF BORROW. IT SHALL HAVE PROPERTIES SUCH THAT IT MAY BE READILY SPREAD AND COMPACTED FOR THE FORMATION OF EMBANKMENTS. THE BORROW SHALL NOT INCLUDE ROCKS WITH A MAJOR DIMENSION GREATER THAN 8 INCHES.

LOW PERMEABILITY BORROW - LOW PERMEABILITY SOIL SHALL BE FREE FROM FOREIGN MATERIALS. THE PERMEABILITY SHALL BE NO GREATER THAN $1X10^{-6}$CM/S. AT 95% COMPACTION. LOW PERMEABILITY MATERIAL SHALL BE CONSISTENT WITH ONE OF THE FOLLOWING USCS DESIGNATIONS:

GC - CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES.
GM - SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
SC - CLAYEY SANDS, SAND-CLAY MIXTURES.
SM - SILTY SANDS, SAND-SILT MIXTURES.
ML - INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY.
MH - INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS.
CH - INORGANIC CLAYS OF HIGH PLASTICITY INDEX, FAT CLAYS
CL - INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY INDEX, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS.

ROLLED GRAVEL - MATERIALS FOR THIS ITEM SHALL CONSIST OF SOUND, TOUGH, DURABLE PARTICLES OF BANK OR CRUSHED GRAVEL, OR RECLAIMED MISCELLANEOUS AGGREGATE, OR MIXTURES THEREOF WITH THE RESULTANT UNIFORM BLEND CONTAINING NO MORE THAN 2% BY WEIGHT (MASS) OF ASPHALT CEMENT. THE MATERIALS SHALL CONSIST OF SOUND, TOUGH, DURABLE PARTICLES OF BANK OR CRUSHED GRAVEL. ALL MATERIALS SHALL BE FREE FROM THIN OR ELONGATED PIECES, LUMPS OF CLAY, LOAM, OR VEGETABLE MATTER. IT SHALL MEET GRADING "A" EXCEPT THAT THE TOP COURSE OF THE ROLLED BANK GRAVEL SURFACE SHALL CONFORM TO GRADING "C."

	A	B	C
SQUARE MESH SIEVES	PERCENT PASSING BY WEIGHT (MASS)		
PASS 5 INCH (125 MM)		100	
PASS 3 1/2 INCH (90 MM)	100	90-100	
PASS 1 1/2 INCH (37.5 MM)	55-100	55-95	100
PASS 3/4 INCH (19 MM)			45-80
PASS 1/4 INCH (6.3 MM)	25-60	25-60	25-60
PASS #10 (2.0 MM)	15-45	15-45	15-45
PASS #40 (425 MM)	5-25	5-25	5-25
PASS #100 (150 MM)	0-10	0-10	0-10
PASS #200 (75 MM)	0-5	0-5	0-5

STANDARD RIPRAP - MATERIALS FOR THIS ITEM SHALL CONSIST OF SOUND, TOUGH, DURABLE AND ANGULAR ROCK, FREE FROM DECOMPOSED STONES OR OTHER DEFECTS IMPAIRING ITS DURABILITY. THE SIZE OF A STONE AS HEREINAFTER SPECIFIED SHALL BE ITS LEAST DIMENSION. BROKEN CONCRETE OR ROUNDED STONES ARE NOT ACCEPTABLE.

THIS MATERIAL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

a) NOT MORE THAN 15% OF THE RIPRAP BY WEIGHT SHALL BE SCATTERED SPALLS AND STONES LESS THAN 6 INCHES IN SIZE.
b) NO STONE SHALL BE LARGER THAN 30 INCHES IN SIZE, AND AT LEAST 75% OF THE WEIGHT SHALL BE STONES AT LEAST 15 INCHES IN SIZE.

Tighe&Bond
www.tighebond.com
1000 Bridgeport Avenue
Suite 320
Shelton, CT 06484
(203) 712-1100

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

July 31, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-C-000-GENR.dwg
DRAWN BY:	
CHECKED:	JAC
APPROVED:	DH

TYPICAL SECTIONS, GENERAL NOTES, ABBREVIATIONS AND LEGEND

SCALE: AS NOTED

C0.00

09/11/2018

Last Saved: 7/30/2018
Plotted On: Sep 11, 2018 - 10:20am By: Canas1
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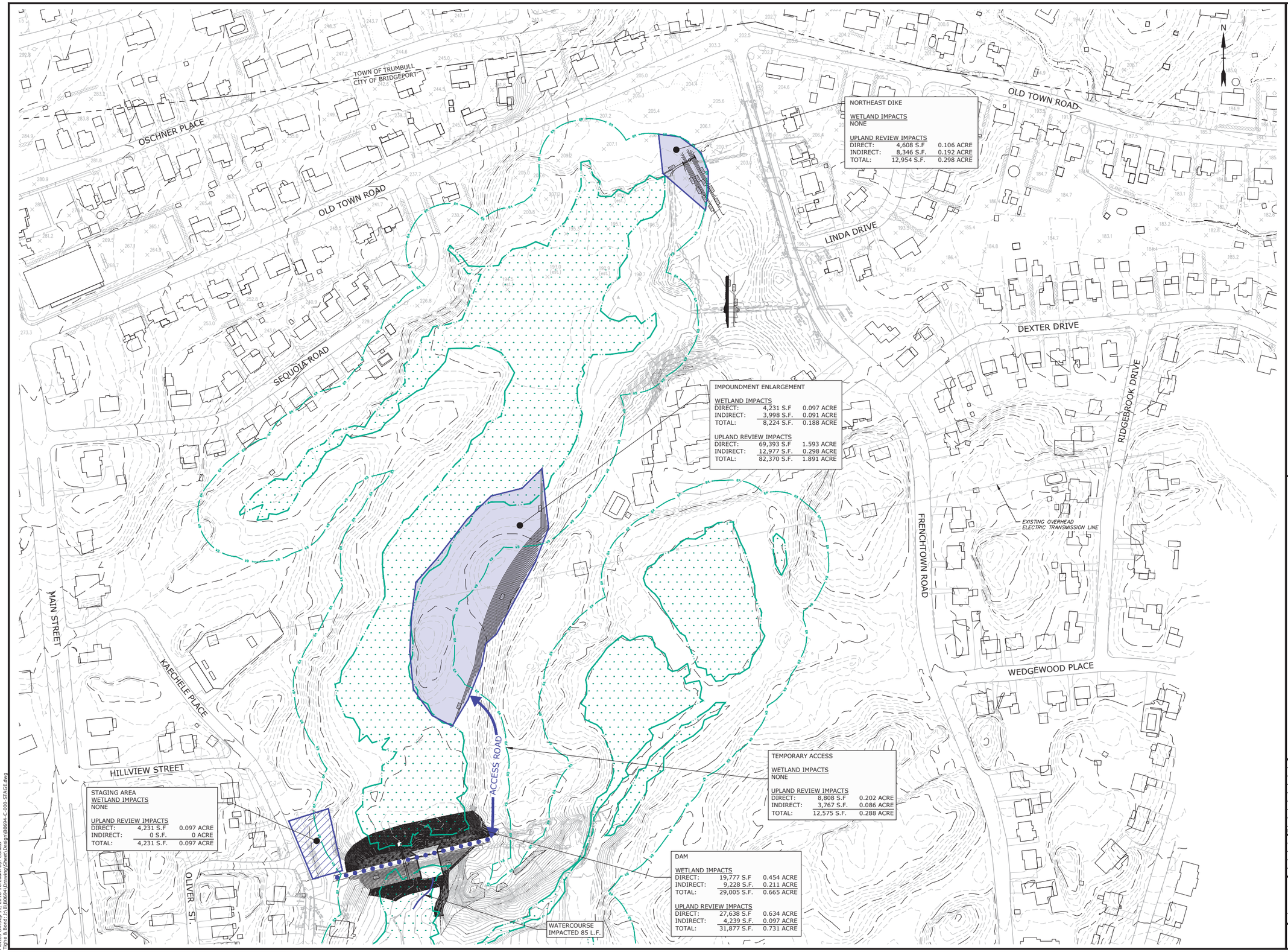

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SCALE IN FEET
0 100' 200'
GRAPHIC SCALE

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

July 31, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-C-000-STAGE.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

REGULATED ACTIVITIES MAP

SCALE: 1" = 100'

E1.00

09/11/2018

Last Saved: 7/19/2018 10:20am By: Canal
Plotted: 07/19/2018 10:20am By: Canal
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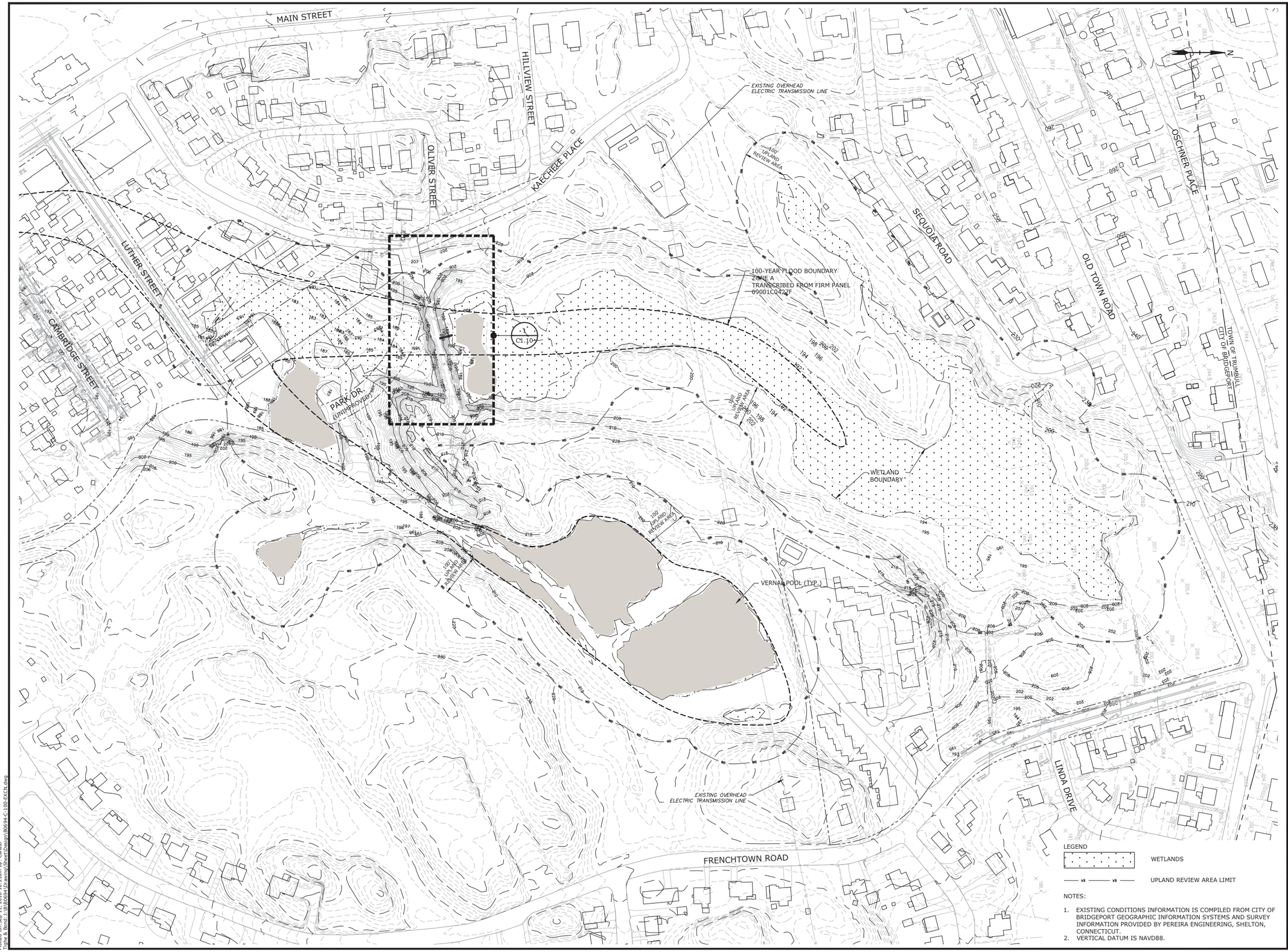

LEGEND

WETLANDS

UPLAND REVIEW AREA LIMIT

NOTES:

1. EXISTING CONDITIONS INFORMATION IS COMPILED FROM CITY OF BRIDGEPORT GEOGRAPHIC INFORMATION SYSTEMS AND SURVEY INFORMATION PROVIDED BY PEREIRA ENGINEERING, SHELTON, CONNECTICUT.
2. VERTICAL DATUM IS NAVD88.

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SCALE IN FEET
0 100' 200'
GRAPHIC SCALE

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

July 31, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-C-100-EXCN.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

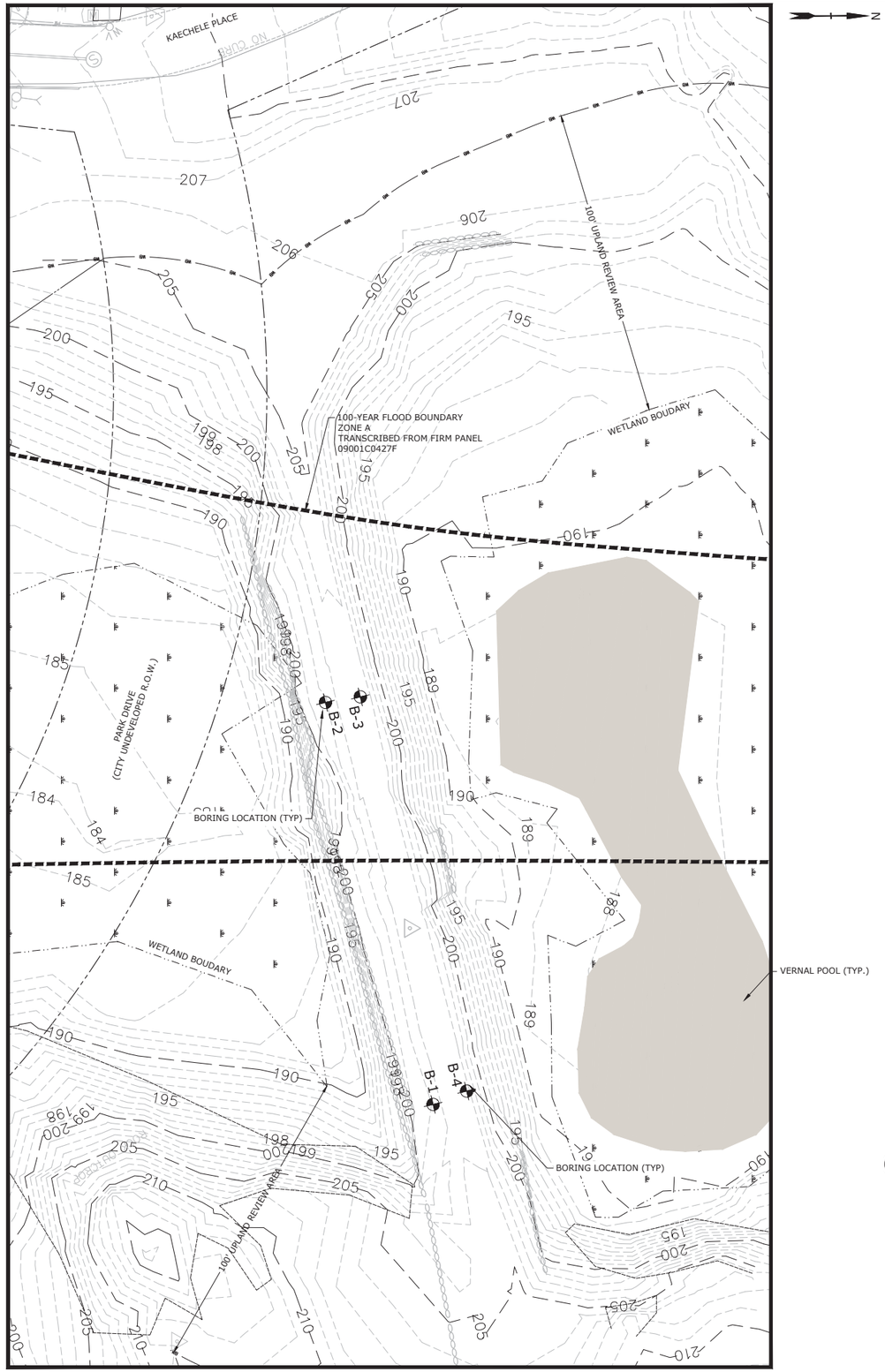
EXISTING CONDITIONS PLAN

SCALE: 1" = 100'

C1.00

09/11/2018

Last Saved: 7/24/2018
Plotted On:Sep 11, 2018-10:21am By: Canas
Tighe & Bond:J:\B\B0694\Drawing\Sheet\Design\B0694-C-100-EXCN.dwg



N

1 **EXISTING CONDITIONS ENLARGEMENT**

LEGEND

WETLANDS

UPLAND REVIEW AREA LIMIT

NOTES:

1. EXISTING CONDITIONS INFORMATION IS COMPILED FROM CITY OF BRIDGEPORT GEOGRAPHIC INFORMATION SYSTEMS AND SURVEY INFORMATION PROVIDED BY PEREIRA ENGINEERING, SHELTON, CONNECTICUT.
2. VERTICAL DATUM IS NAVD88.

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SCALE IN FEET
0 20' 40'
GRAPHIC SCALE

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

July 31, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-C-100-EXCN.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

EXISTING CONDITIONS ENLARGEMENT PLAN

SCALE: 1" = 20'

C1.10

09/11/2018

Last Saved: 7/24/2018
Plotted On:Sep 11, 2018-10:21am By: CanasJ
Tighe & Bond:J:\B\B0694\Drawing\Sheet\Design\B0694-C-100-EXCN.dwg

Tighe&Bond
Consulting Engineers

Project: Elton Rodgers Park Dam
Location: Bridgeport, CT
Client: City of Bridgeport

Boring No. B-1
Page 1 of 2
File No. B-0694
Checked by: Z. Baum/C. Haker

Drilling Co.: General Borings
Foreman: Bob Poynton
T&B Rep.: Chris Dubuque
Date Start: 09/08/14 End: 09/09/14
Location See Exploration Location Plan
GS. Elev. 202' Datum: NAVD 88

	Casing	Sampler
Type	HW	Split Spoon
I.D./O.D.	4" / 4-1/4"	1-3/8"/2"
Hammer Wt.	300#	140#
Hammer Fall	30"	30"
Other	Cathead	Cathead

Groundwater Readings

Date	Time	Depth	Casing	Sta. Time
9/9/2014	See Note 1			

Depth (ft.)	Casing Blows Per Ft.	Sample No. / Rec. (in)	Sample Depth (ft.)	Blows Per 6"	Sample Description	General Stratigraphy	Notes	Well Construction
5		S1/12	0-2	3-4	S1: Medium dense, light brown, SILT and fine	EMBANKMENT FILL		No Well Installed
				6-7	SAND, trace Gravel			
					Grinding on boulder from 3 ft to 5 ft			
	20	S2/15	5-7	7-4	S2: Medium dense, light brown, SILT and fine SAND, trace Gravel			
	150			7-60	Grinder bit used from 6.5 ft to 7.5 ft to clear			
					boulder			
10	20							
	52				Grinder bit used from 9 ft to 10 ft.			
	31	S3/15	10-12	13-19	S3: Medium dense, light brown, SILT and			
	45			19-16	fine to medium SAND, trace Gravel			
	42							
	30							
15	41							
	33	S4&4A/12	15-17	20-24	S4: Top 7" Dense, light brown, SILT and fine to medium SAND, trace Gravel			
	49			18-14	S4A: Bottom 5" Dense, gray to light brown, SILT, some fine to medium Sand			
	47					18.5'		
	70							
20	100				Grinder bit used 19.5 ft to 21 ft			
	125							
	211/3"	S5/12	21-22.5	60-113	S5: Very dense, gray to brown, fine to medium SAND, some Silt, trace Gravel			
	110			110				
	235/3"				Grinder bit was used 23.25 ft to 24.25 ft	SILTY SAND		
	114							
25	155	S6/12	25-27	52-65	S6: Very dense, brown, fine to medium SAND, some Silt, trace Gravel			
	212			103-100				
	185							
	215							
30	218							

Notes:
1. Groundwater level, if any, unable to be determined due to drilling method.
2.The top 18" of material was scraped off with the backhoe to create a level working area.

Proportions Used

TRACE (TR.)	0 - <10%
LITTLE (LI.)	10 - <20%
SOME (SO.)	20 - <35%
AND	35 - <50%

Density/Consistency

VERY LOOSE	0-4	VERY SOFT	<2
LOOSE	4-10	SOFT	2-4
MEDIUM DENSE	10-30	MEDIUM	4-8
DENSE	30-50	STIFF	8-15
VERY DENSE	>50	VERY STIFF	15-30
		HARD	>30

Tighe&Bond
Consulting Engineers

Project: Elton Rodgers Park Dam
Location: Bridgeport, CT
Client: City of Bridgeport

Boring No. B-1
Page 2 of 2
File No. B-0694
Checked by: Z. Baum/C. Haker

Depth (ft.)	Casing Blows Per Ft.	Sample No. / Rec. (in)	Sample Depth (ft.)	Blows Per 6"	Sample Description	General Stratigraphy	Notes	Well Construction
	S7&7A/8		30-31.7	36-100	S7: 5" Very dense, brown, fine to medium SAND, some GR	30.5'		No Well Installed
					S7A: 3" Very dense, light gray ,completely weathered bedrock			
	C1/60		31.7-36.7	3 min	C1:Hard, fresh, slightly fractured, fine to medium	Bedrock		
				3 min	grained, light gray, Shelton Member of Trap Falls			
35				3 min	Formation, GNEISS, close, steep joints			
				4 min	RQD=97%			
				4 min				
					Bottom of Exploration at 36.7 feet			
40								
45								
50								
55								
60								
65								

Notes:

Tighe&Bond
Consulting Engineers

Project: Elton Rodgers Park Dam
Location: Bridgeport, CT
Client: City of Bridgeport

Boring No. B-2
Page 1 of 1
File No. B-0694
Checked by: Z. Baum/C. Haker

Drilling Co.: General Borings
Foreman: Bob Poynton
T&B Rep.: Chris Dubuque
Date Start: 09/09/14 End: 09/10/14
Location See Exploration Location Plan
GS. Elev. 202' Datum: NAVD 88

	Casing	Sampler
Type	HW	Split Spoon
I.D./O.D.	4" / 4-1/4"	1-3/8"/2"
Hammer Wt.	300#	140#
Hammer Fall	30"	30"
Other	Cathead	Cathead

Groundwater Readings

Date	Time	Depth	Casing	Sta. Time
9/10/2014	See Note 1			

Depth (ft.)	Casing Blows Per Ft.	Sample No. / Rec. (in)	Sample Depth (ft.)	Blows Per 6"	Sample Description	General Stratigraphy	Notes	Well Construction
5		S1/6	0-2	4-7	S1: Medium dense, light brown, SILT and fine	EMBANKMENT FILL		No Well Installed
				7-8	SAND, trace Gravel			
	33	S2/6	5-7	19-16	S2: Dense, light brown, SILT and fine SAND, trace Gravel			
	26			15-13	1" thick Dark Brown, SILT and fine SAND lens			
	26				at 6 feet			
10	39							
	25							
	45	S3/8	10-12	14-14	S3: Dense, brown, fine to medium SAND and SILT,			
	55			18-34	trace Gravel			
	56							
	28	P1	13	N/A	Falling head permeability test.			
	41				Hydraulic conductivity = 4 x 10^{-5} cm/s			
15	9	S4/0	15-17	17-27	S4: No recovery			
	12			15-30				
	37				17.5 ft. may have drilled through wood			
	53				18 ft. wash water turned gray	18.5'		
	27				19 ft. wash water turned back to brown			
20	19	S5/12	20-22	8-18	S5: Dense, gray, fine to medium SAND, trace Gravel, trace Silt	SAND		
	54			24-38				
	90							
	339/11"				Grinder bit used from 23.9 ft to 25 ft	23.5'		
	105							
25	59	S6/6	25-26	40-105	S6: Very dense, red brown, SAND and SILT, trace Gravel	SAND and SILT		
	285/11"				Grinder bit used from 27.5 ft to 28.5 ft			
		S7/0	28.5	50/0"	S7: Split spoon was bouncing at 28.5'			
30					Bottom of Exploration at 28.5 feet due to refusal			

Notes:
1. Groundwater level, if any, unable to be determined due to drilling method.
2. The top 12" of material was scraped off with the backhoe to create a level working surface.

Proportions Used

TRACE (TR.)	0 - <10%
LITTLE (LI.)	10 - <20%
SOME (SO.)	20 - <35%
AND	35 - <50%

Density/Consistency

VERY LOOSE	0-4	VERY SOFT	<2
LOOSE	4-10	SOFT	2-4
MEDIUM DENSE	10-30	MEDIUM	4-8
DENSE	30-50	STIFF	8-15
VERY DENSE	>50	VERY STIFF	15-30
		HARD	>30

Tighe&Bond
Consulting Engineers

Project: Elton Rodgers Park Dam
Location: Bridgeport, CT
Client: City of Bridgeport

Boring No. B-3
Page 1 of 1
File No. B-0694
Checked by: Z. Baum/C. Haker

Drilling Co.: General Borings
Foreman: Bob Poynton
T&B Rep.: Chris Dubuque
Date Start: 09/10/14 End: 09/11/14
Location See Exploration Location Plan
GS. Elev. 203.0 Datum: NAVD 88

	Casing	Sampler
Type	HW	Split Spoon
I.D./O.D.	4" / 4-1/4"	1-3/8"/2"
Hammer Wt.	300#	140#
Hammer Fall	30"	30"
Other	Cathead	Cathead

Groundwater Readings

Date	Time	Depth	Casing	Sta. Time
9/11/2014	See Note 1			

Depth (ft.)	Casing Blows Per Ft.	Sample No. / Rec. (in)	Sample Depth (ft.)	Blows Per 6"	Sample Description	General Stratigraphy	Notes	Well Construction
5		S1/12	0-2	5-6	S1: Medium dense, light brown, SILT and SAND, trace Gravel	EMBANKMENT FILL		No Well Installed
				7-8				
		S2/10	5-7	5-26	S2: Very dense, light brown, SILT and SAND, some Gravel			
				34-32				
	53	S3/13	7-9	30-25	S3: Very dense, light brown, GRAVEL, some fine to medium SAND, little Silt			
	64			27-23				
10	83							
		S4/8	10-12	20-25	S4: Dense, red brown, fine to medium SAND and SILT, some Gravel			
				23-19				
	22	S5/12	12-14	20-13	S5: Dense, red brown, fine to medium SAND and SILT, some Gravel			
	20			30-21				
15	22							
	15	S6/11	15-17	10-9	S6: Medium dense, red brown, fine to medium SAND and Clayey SILT, some Gravel, trace Organics (wood & root matter)			
	32			10-7		17'		
	17	S7/12	17-19	7-10	1" light gray, fine to meduim SAND in the tip of the split spoon			
	37			28-25	S7: Medium dense, light gray, fine to medium SAND, some Silt			
	76	P1	20	N/A	Falling head permeability test. Hydraulic conductivity = 2 x 10^{-3} cm/s			
20	15	S8/10	20-22	9-9	S8: Medium dense, light gray, fine to medium SAND, some Silt, trace Gravel with lens of Clayey			
	26			8-14	SILT, some fine Sand	SILTY SAND		
	23	S9/16	22-24	19-23	S9: Very dense, light gray, fine to medium SAND some Silt, some Gravel			
	57	S9A/16		48-57	S9A: Very dense, light gray, fine to medium SAND, some Silt, some Gravel			
25	145							
	77	S10/12	25-27	54-105	S10: Very dense, light brown, fine to medium SAND, some Silt, some Gravel			
	147			57-78	S11: 4" Very dense, light brown, fine to coarse SAND, some Gravel, little Silt			
	103	S11/8	27-29	44-54	S11A: 4" Very dense, red brown, fine to coarse SAND, some Gravel, little Silt			
	114	S11A/8		100/3"	S12: Grinder bit to 29.3' / Split spoon was bouncing at 29'-3"			
30	170/3"	S12/0	29.3	50/0"	Bottom of Exploration at 29.3 feet due to refusal			

Notes:
1. Groundwater level, if any, unable to be determined due to drilling method.
2. The top 6" of material was scraped off with the backhoe to create a level working surface. B-3 is about 12" higher than B-2 and they are about 15' apart.

Proportions Used

TRACE (TR.)	0 - <10%
LITTLE (LI.)	10 - <20%
SOME (SO.)	20 - <35%
AND	35 - <50%

Density/Consistency

VERY LOOSE	0-4	VERY SOFT	<2
LOOSE	4-10	SOFT	2-4
MEDIUM DENSE	10-30	MEDIUM	4-8
DENSE	30-50	STIFF	8-15
VERY DENSE	>50	VERY STIFF	15-30
		HARD	>30

Tighe&Bond
Consulting Engineers

Project: Elton Rodgers Park Dam
Location: Bridgeport, CT
Client: City of Bridgeport

Boring No. B-4
Page 1 of 1
File No. B-0694
Checked by: Z. Baum/C. Haker

Drilling Co.: General Borings
Foreman: Bob Poynton
T&B Rep.: Chris Dubuque
Date Start: 09/11/14 End: 09/11/14
Location See Exploration Location Plan
GS. Elev. 203 Datum: NAVD 88

	Casing	Sampler
Type	HW	Split Spoon
I.D./O.D.	4" / 4-1/4"	1-3/8"/2"
Hammer Wt.	300#	140#
Hammer Fall	30"	30"
Other	Cathead	Cathead

Groundwater Readings

Date	Time	Depth	Casing	Sta. Time
9/11/2014	See Note 1			

Depth (ft.)	Casing Blows Per Ft.	Sample No. / Rec. (in)	Sample Depth (ft.)	Blows Per 6"	Sample Description	General Stratigraphy	Notes	Well Construction
5		S1/6	0-2	4-4	S1: Loose, light brown, SILT and fine SAND, trace Gravel, roots	EMBANKMENT FILL		No Well Installed
				3-4				
	27	S2/17	5-7	10-14	S2: Meduim dense, light brown, SILT and fine SAND, trace Gravel			
	39			14-29	1" of red brown, fine SAND and SILT in center of sample			
	63							
	70							
10								
	13	S3/14	10-12	11-17	S3: Dense, red brown, SILT and fine SAND, trace Gravel			
	36			24-16				
	29							
	26					18.5'		
	25							
15	2	S4/2	15-17	13-8	S4: Medium dense, gray brown, SILT and CLAY, some fine SAND			
	11			5-4				
	7	S5/14	17-19	3-3	S5: Loose fine, gray brown, clayey SILT and fine SAND, trace Gravel	SILT and SAND		
	7			3-4				
	9				S6:8" Dense, gray SILT and fine to medium SAND,			
20		S6&6A/14	20-22	16-20	trace Gravel; S6A: 6" Dense, red brown, fine to	21'		
				26-27	medium SAND, trace Silt			
		S7/10	22-23.2	25-34	S7: Very dense, brown, fine to coarse SAND, some Gravel, trace Silt	SAND		
				110/2"	Bottom of Exploration at 23.2 feet			
25								
30								

Notes:
1. Groundwater level, if any, unable to be determined due to drilling method.

Proportions Used

TRACE (TR.)	0 - <10%
LITTLE (LI.)	10 - <20%
SOME (SO.)	20 - <35%
AND	35 - <50%

Density/Consistency

VERY LOOSE	0-4	VERY SOFT	<2
LOOSE	4-10	SOFT	2-4
MEDIUM DENSE	10-30	MEDIUM	4-8
DENSE	30-50	STIFF	8-15
VERY DENSE	>50	VERY STIFF	15-30
		HARD	>30

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Suite 320
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Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

July 31, 2018

MARK	DATE	DESCRIPTION

PROJECT NO: B0694
FILE: B0694-C-100-EXCN.dwg
DRAWN BY: MDS
CHECKED: JAC
APPROVED: DH

SUBSURFACE EXPLORATION LOGS

SCALE: 1" = 20'

C1.20

09/11/2018

Last Saved: 7/24/2018
Plotted On: Sep 11, 2018 10:21am By: Canas
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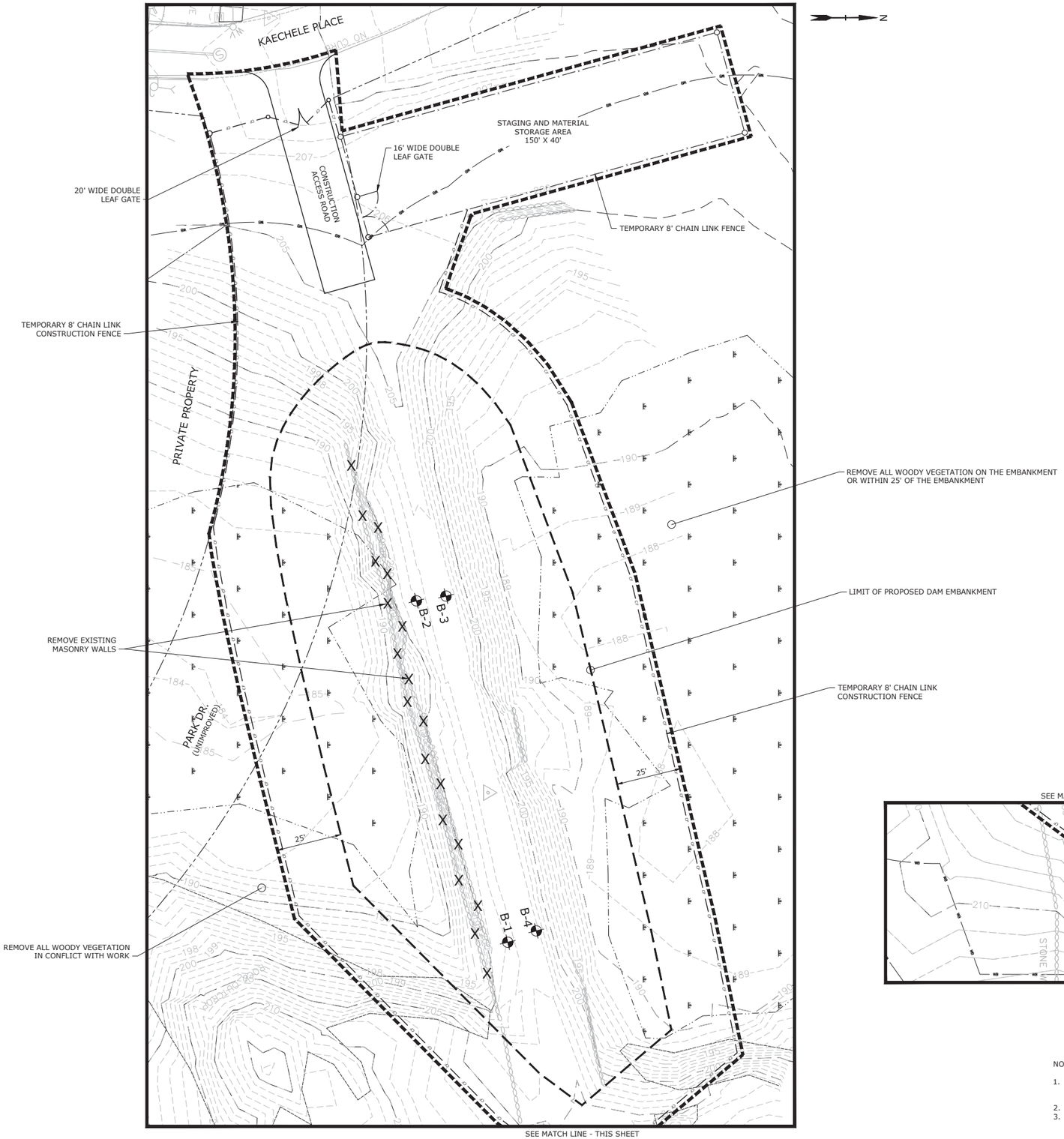

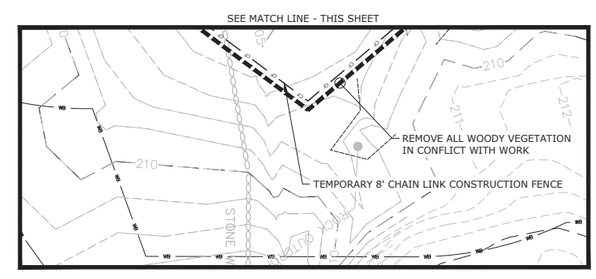

NOTES:

1. EXISTING CONDITIONS INFORMATION IS COMPILED FROM CITY OF BRIDGEPORT GEOGRAPHIC INFORMATION SYSTEMS AND SURVEY INFORMATION PROVIDED BY PEREIRA ENGINEERING, SHELTON, CONNECTICUT.
2. VERTICAL DATUM IS NAVD88.
3. REFER TO SEDIMENTATION AND EROSION DRAWINGS FOR SEQUENCING AND REQUIRED CONTROLS.

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SCALE IN FEET
0 20' 40'
GRAPHIC SCALE

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

July 31, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-C-200-PREP.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

SITE PREPARATION PLAN

SCALE: 1" = 20'

C2.00

09/11/2018

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Plotted On:Sep 11, 2018-10:22am By: CanasJ
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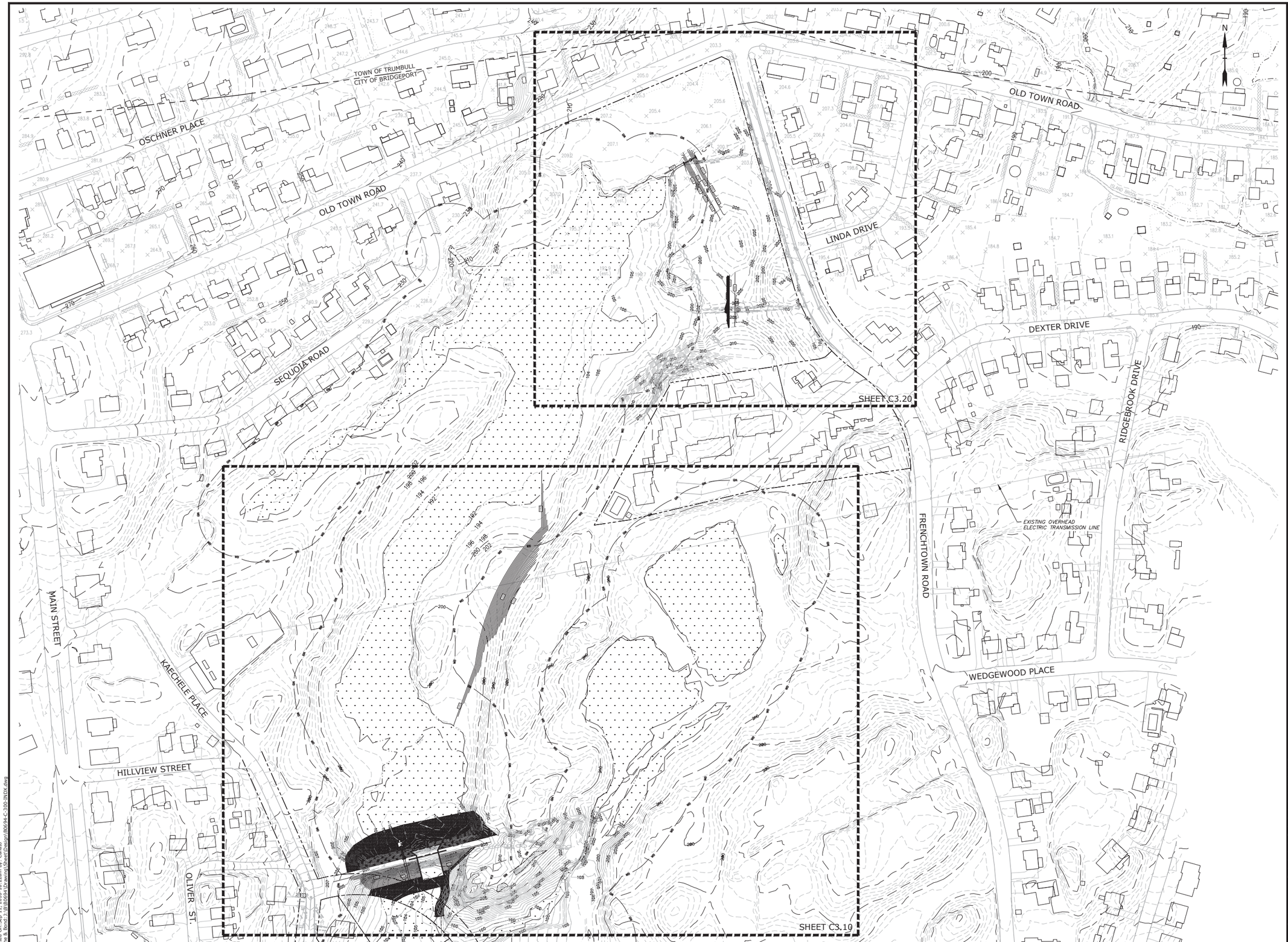

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SCALE IN FEET
0 100' 200'
GRAPHIC SCALE

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City of Bridgeport

Bridgeport, Connecticut

July 31, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-C-300-INDX.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

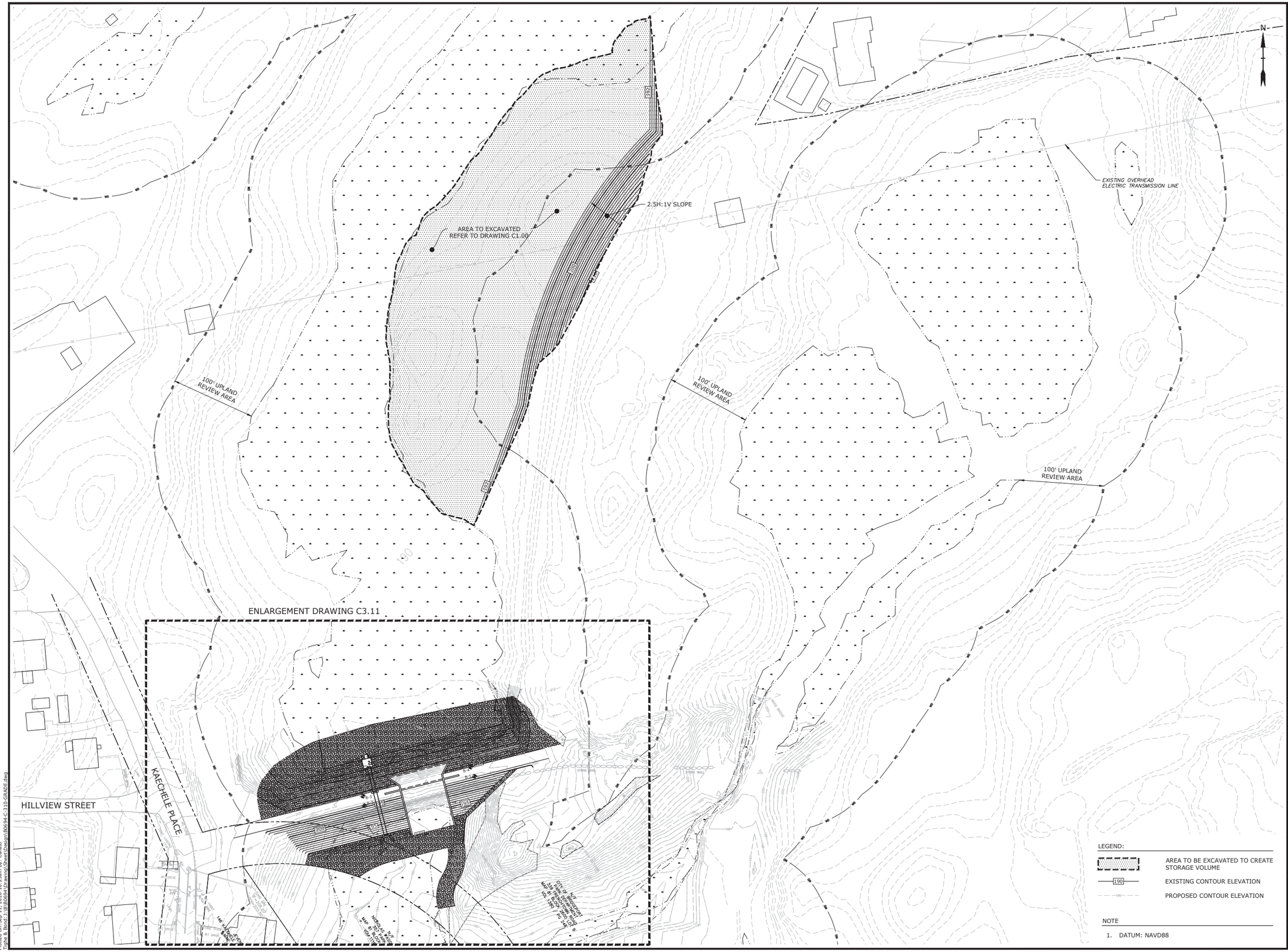
INDEX PLAN

SCALE: 1" = 100'

C3.00

Last Saved: 7/24/2018
Plotted On:Sep 11, 2018-10:22am By: CanasJ
Tighe & Bond:J:\B\B0694\Drawing\Sheet\Design\B0694-C-300-INDX.dwg

09/11/2018



LEGEND:

AREA TO BE EXCAVATED TO CREATE STORAGE VOLUME

EXISTING CONTOUR ELEVATION

PROPOSED CONTOUR ELEVATION

NOTE

1. DATUM: NAVD88

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SCALE IN FEET
0 50' 100'
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July 31, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-C-310-GRADE.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

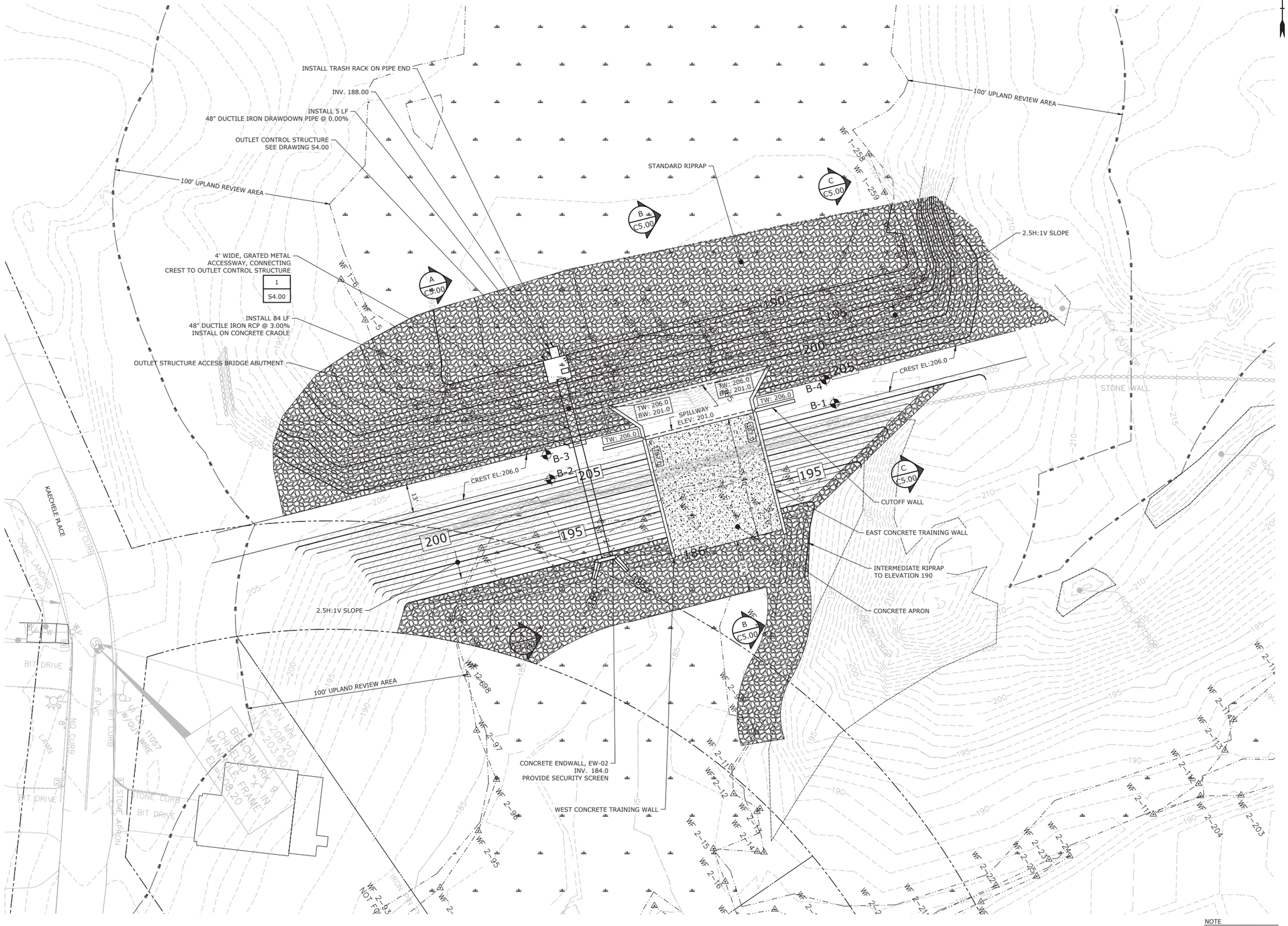
OUTLET AREA ENLARGEMENT PLAN

SCALE: 1" = 50'

C3.10

09/11/2018

Last Saved: 7/30/2018
Plotted On:Sep 11, 2018-10:23am By: CanasJ
Tighe & Bond:J:\B\B0694\Drawing\Sheet\Design\B0694-C-310-GRADE.dwg



NOTE
1. DATUM: NAVD88

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SCALE IN FEET
0 20' 40'
GRAPHIC SCALE

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

July 31, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-C-310-GRADE.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

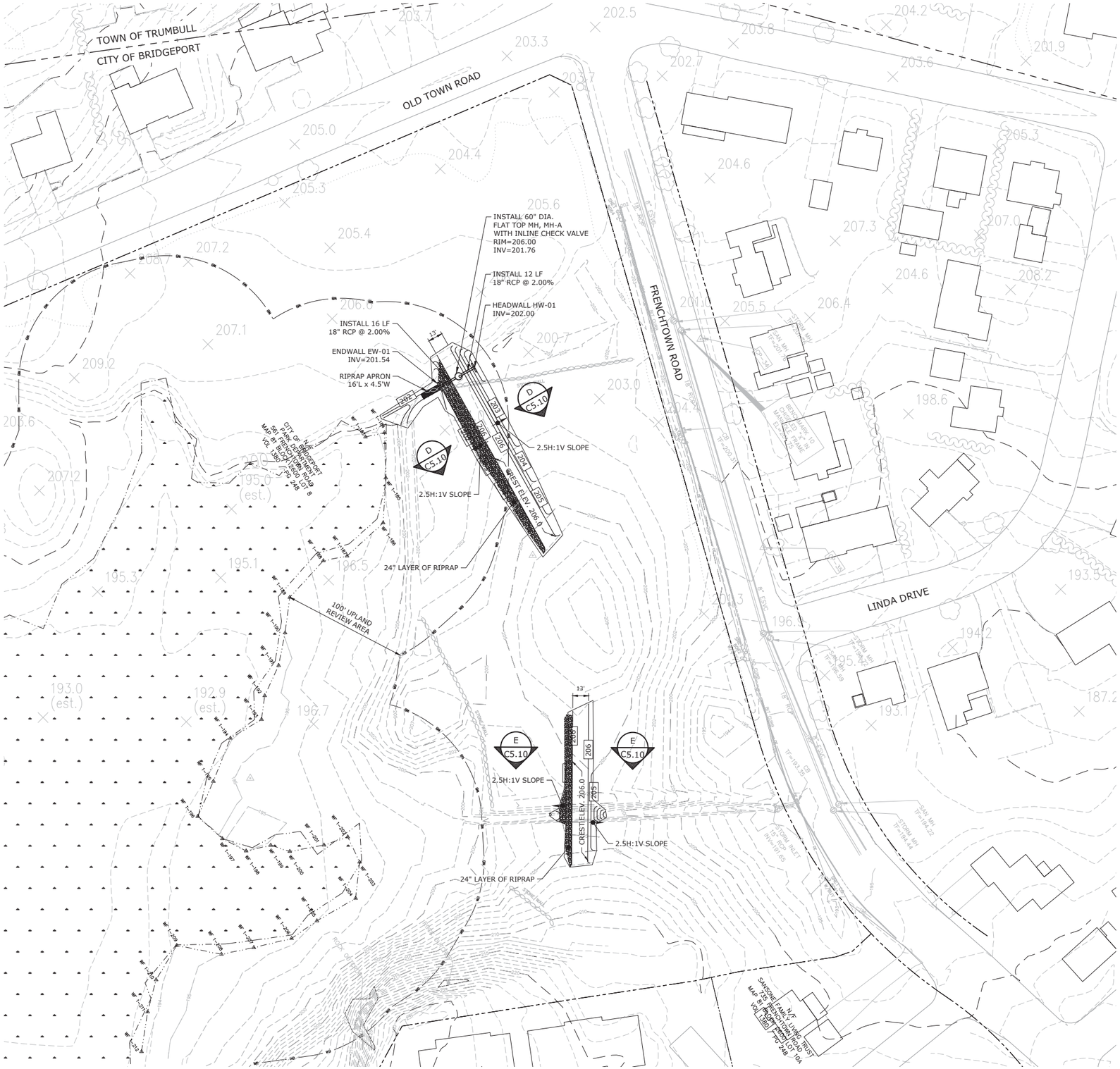
PRIMARY DAM ENLARGEMENT PLAN

SCALE: 1" = 20'

C3.11

09/11/2018

Last Saved: 7/30/2018
Plotted On: Sep 11, 2018 - 10:23am By: Canas1
File: K:\Bos\10\B0694\Drawing Sheet\Design\B0694-C-310-GRADE.dwg


TOWN OF TRUMBULL
CITY OF BRIDGEPORT
OLD TOWN ROAD
FRENCHTOWN ROAD
LINDA DRIVE
INSTALL 60" DIA. FLAT TOP MH, MH-A WITH INLINE CHECK VALVE RIM=206.00 INV=201.76
INSTALL 12 LF 18" RCP @ 2.00%
HEADWALL HW-01 INV=202.00
INSTALL 16 LF 18" RCP @ 2.00%
ENDWALL EW-01 INV=201.54
RIPRAP APPORN 16'L x 4.5'W
D C5.10
2.5H:1V SLOPE
CREST ELEV. 206.0
24" LAYER OF RIPRAP
100' UPLAND REVIEW AREA
E C5.10
13'
CREST ELEV. 206.0
CITY OF BRIDGEPORT 461 FRENCHTOWN ROAD MAP 81 BLOCK 2 LOT 8 VOL 1380 / PG 248
SAKSONE FAMILY LIVING TRUST 2 FRENCHTOWN ROAD MAP 81 BLOCK 2 LOT 10A VOL 1380 / PG 246
N/F
SANITARY MH TF=200.16
STORM MH TF=199.59
STORM MH TF=194.44
STORM INLET RIM=195.65 INV=187.65
SAN MH TF=193.22
CB TF=193.35
SAN MH TF=200.16
STORM MH TF=200.51
SAN MH TF=200.16
STORM MH TF=200.51
SAN MH TF=200.16
STORM MH TF=200.51



NOTE:

1. ACCESS TO CONSTRUCTION AREAS SHALL BE SECURED BY TEMPORARY 8' CHAIN LINK FENCE. FENCING SECURED AREA MUST BE MINIMUM TO CONDUCT WORK TO ALLOW PUBLIC ACCESS TO REMAINDER OF PARK.

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SCALE IN FEET
0 100' 200'
GRAPHIC SCALE

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

July 31, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE: B0694-C-400-PHASE.dwg	
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

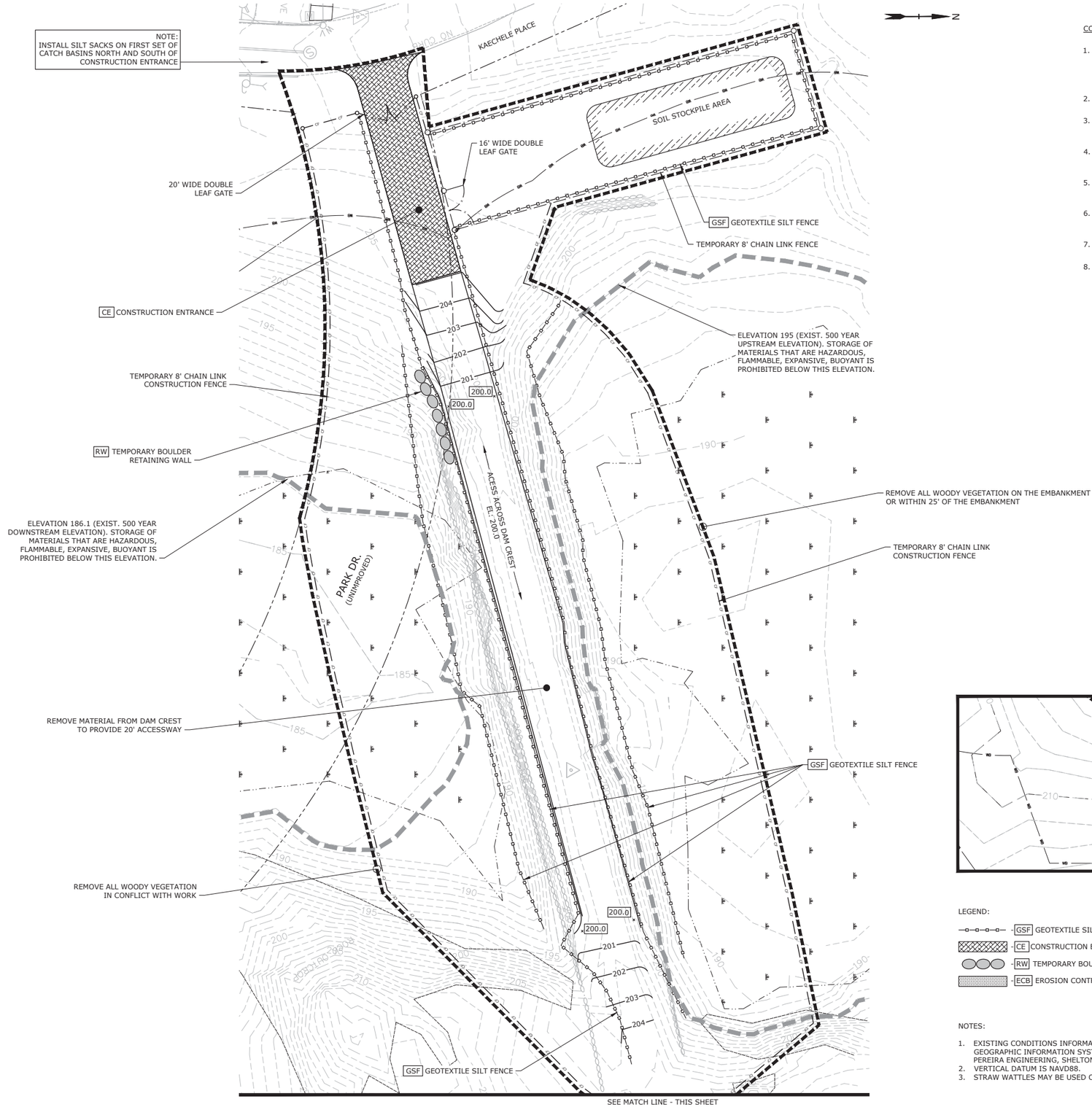
CONSTRUCTION PHASING PLAN

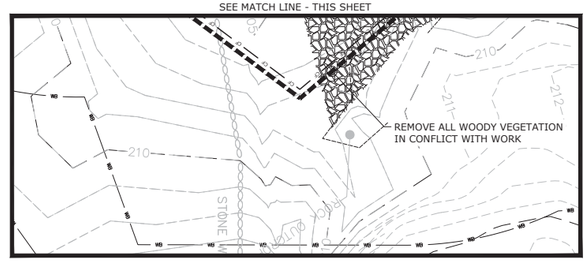
SCALE: 1" = 100'

C4.00

Last Saved: 7/30/2018
Plotted On:Sep 11, 2018-10:24am By: CanasJ
Tighe & Bond:J:\B\B0694\Drawing\Sheet\Design\B0694-C-400-PHASE.dwg

09/11/2018





CONSTRUCTION SEQUENCE - PHASE 1

1. CONDUCT A PRECONSTRUCTION MEETING WITH THE OWNER OR OWNER'S REPRESENTATIVE, CITY ENGINEER, DESIGN ENGINEER, CONTRACTOR AND SITE SUPERINTENDENT TO ESTABLISH THE LIMITS OF CONSTRUCTION, CONSTRUCTION PROCEDURES AND MATERIAL STOCKPILE AREAS.
2. FIELD STAKE THE LIMITS OF CONSTRUCTION.
3. INSTALL APPLICABLE SOIL AND EROSION CONTROL MEASURES AROUND THE PERIMETER OF THE SITE TO THE MAXIMUM EXTENT POSSIBLE.
4. INSTALL CONSTRUCTION ENTRANCE AND FENCING AROUND CONSTRUCTION STAGING AND STORAGE AREA.
5. INSTALL SILT SACKS ON THE FIRST SET OF CATCH BASINS NORTH AND SOUTH OF THE SITE ENTRANCE ON KAECHELE PLACE.
6. BEGIN TO REMOVE MATERIAL FROM DAM TO PROVIDE A LEVEL 20' WIDE ACCESSWAY ACROSS THE DAM.
7. STOCKPILE MATERIAL IN STAGING AREA, AND HAUL OFF SITE.
8. PROVIDE STABILIZED GRAVEL SURFACE A FOR ACCESSWAY.

LEGEND:

- GSF GEOTEXTILE SILT FENCE
- CE CONSTRUCTION ENTRANCE
- RW TEMPORARY BOULDER RETAINING WALL
- ECB EROSION CONTROL BLANKET

NOTES:

1. EXISTING CONDITIONS INFORMATION IS COMPILED FROM CITY OF BRIDGEPORT GEOGRAPHIC INFORMATION SYSTEMS AND SURVEY INFORMATION PROVIDED BY PEREIRA ENGINEERING, SHELTON, CONNECTICUT.
2. VERTICAL DATUM IS NAVD88.
3. STRAW WATTLES MAY BE USED ON DAM IN LIEU OF GEOTEXTILE SILT FENCE.

SCALE IN FEET
0 20' 40'
GRAPHIC SCALE

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Elton Rogers Park Dam Reconstruction

City of Bridgeport

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July 31, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-C-410-SESC.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

SEDIMENT AND EROSION CONTROL PLAN - PHASE 1

SCALE: 1" = 20'

C4.10

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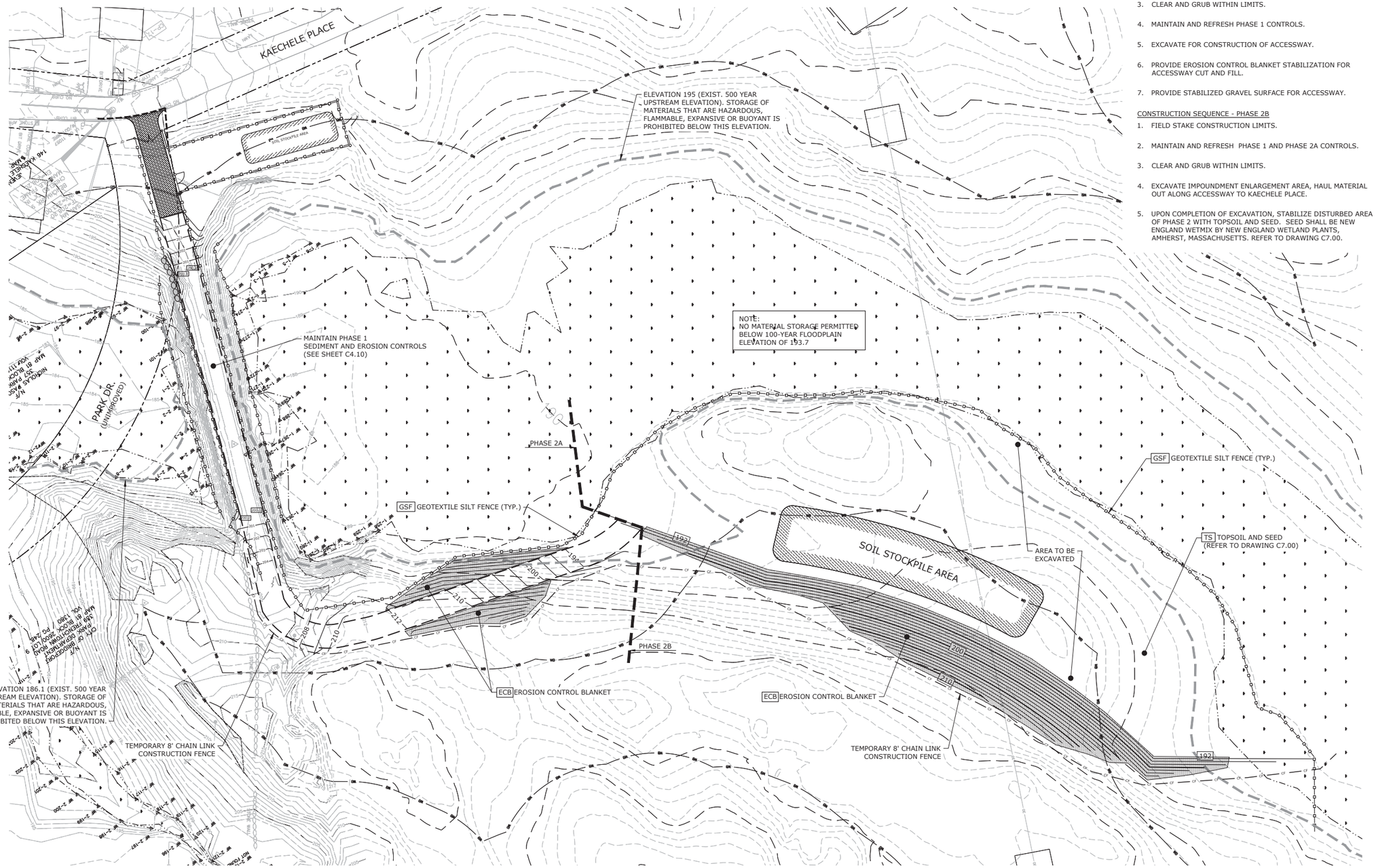
Plotted On:Sep 11, 2018-10:24am By: CanasJ
Tighe & Bond:J:\B\B0694\Drawing\Sheet\Design\B0694-C-410-SESC.dwg
09/11/2018



N

CONSTRUCTION SEQUENCE - PHASE 2A

1. FIELD STAKE CONSTRUCTION LIMITS.
2. INSTALL PERIMETER EROSION CONTROLS.
3. CLEAR AND GRUB WITHIN LIMITS.
4. MAINTAIN AND REFRESH PHASE 1 CONTROLS.
5. EXCAVATE FOR CONSTRUCTION OF ACCESSWAY.
6. PROVIDE EROSION CONTROL BLANKET STABILIZATION FOR ACCESSWAY CUT AND FILL.
7. PROVIDE STABILIZED GRAVEL SURFACE FOR ACCESSWAY.

CONSTRUCTION SEQUENCE - PHASE 2B

1. FIELD STAKE CONSTRUCTION LIMITS.
2. MAINTAIN AND REFRESH PHASE 1 AND PHASE 2A CONTROLS.
3. CLEAR AND GRUB WITHIN LIMITS.
4. EXCAVATE IMPOUNDMENT ENLARGEMENT AREA, HAUL MATERIAL OUT ALONG ACCESSWAY TO KAECHELE PLACE.
5. UPON COMPLETION OF EXCAVATION, STABILIZE DISTURBED AREA OF PHASE 2 WITH TOPSOIL AND SEED. SEED SHALL BE NEW ENGLAND WETMIX BY NEW ENGLAND WETLAND PLANTS, AMHERST, MASSACHUSETTS. REFER TO DRAWING C7.00.

LEGEND:

- CE CONSTRUCTION ENTRANCE
- ECB EROSION CONTROL BLANKET
- GSF GEOTEXTILE SILT FENCE
- TS TOPSOIL & SEED

SCALE IN FEET
0 40' 80'
GRAPHIC SCALE

NOTE
1. DATUM: NAVD88

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July 31, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-C-420-SESC.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

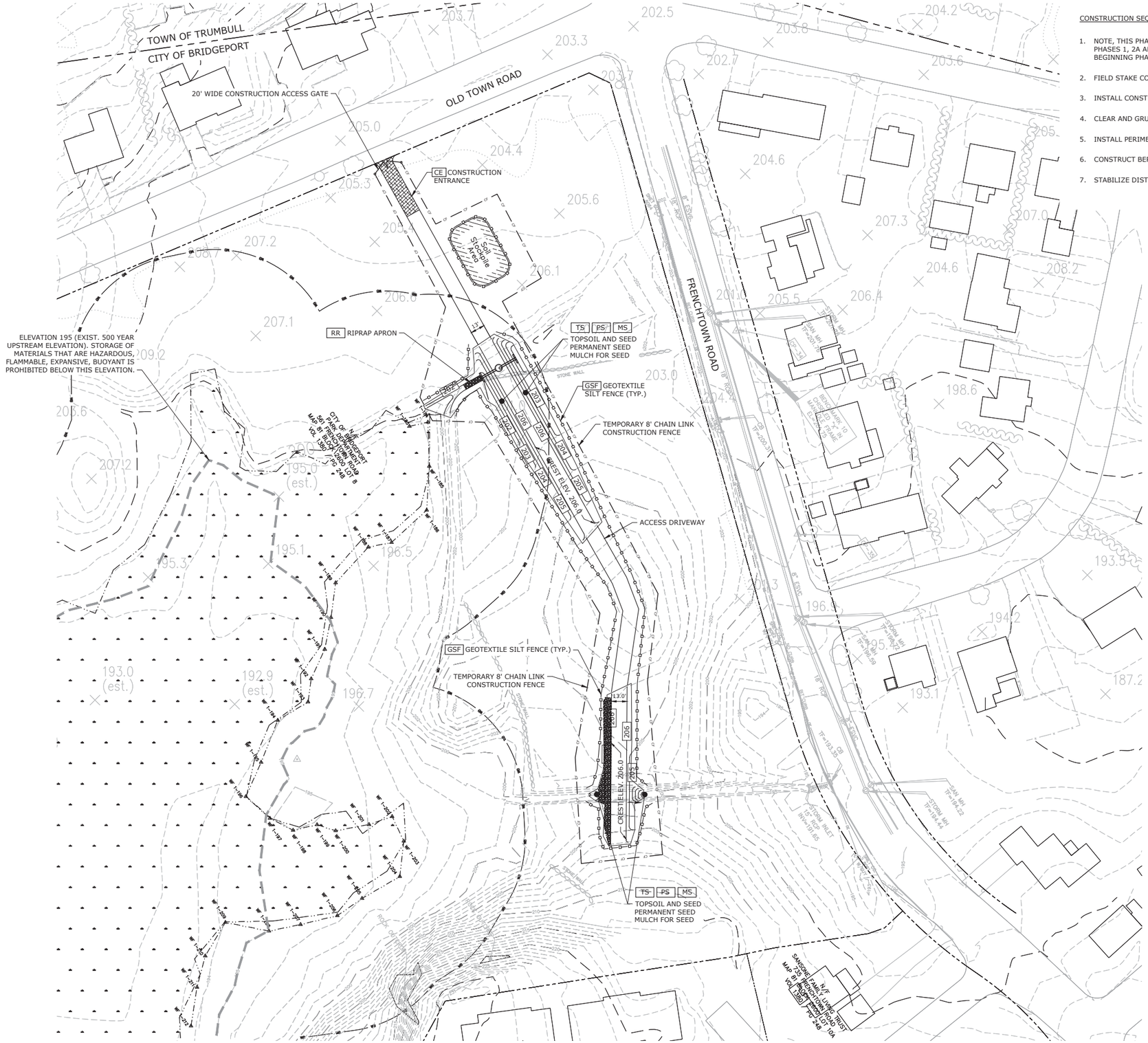
SEDIMENT AND EROSION CONTROL PLAN PHASE 2A & 2B

SCALE: 1" = 40'

C4.20

09/11/2018

Last Saved:7/30/2018
Plotted On:Sep 11, 2018 10:25am By: CaseyJ
Dwg is Saved in B0694\10 Drawing\Sheet Design\B0694-C-420-SESC.dwg



CONSTRUCTION SEQUENCE - PHASE 3

1. NOTE, THIS PHASE MAY BE PERFORMED CONCURRENTLY WITH PHASES 1, 2A AND/OR 2B, BUT MUST BE COMPLETED BEFORE BEGINNING PHASE 4.
2. FIELD STAKE CONSTRUCTION LIMITS.
3. INSTALL CONSTRUCTION ENTRANCE.
4. CLEAR AND GRUB CONSTRUCTION LIMITS.
5. INSTALL PERIMETER EROSION CONTROLS.
6. CONSTRUCT BERMS.
7. STABILIZE DISTURBED AREAS.

LEGEND:

- CE CONSTRUCTION ENTRANCE
- ECB EROSION CONTROL BLANKET
- GSF GEOTEXTILE SILT FENCE
- MS MULCH FOR SEED
- PS PERMANENT SEEDING
- RR RIPRAP APRON
- TS TOPSOIL & SEED

SCALE IN FEET
0 40' 80'
GRAPHIC SCALE

NOTE
1. DATUM: NAVD88

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July 31, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-C-420-SESC.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

SEDIMENT AND EROSION CONTROL PLAN - PHASE 3

SCALE: 1" = 40'

C4.30

09/11/2018

Last Saved: 7/30/2018
Plotted On:Sep 11, 2018-10:25am By: CanasJ
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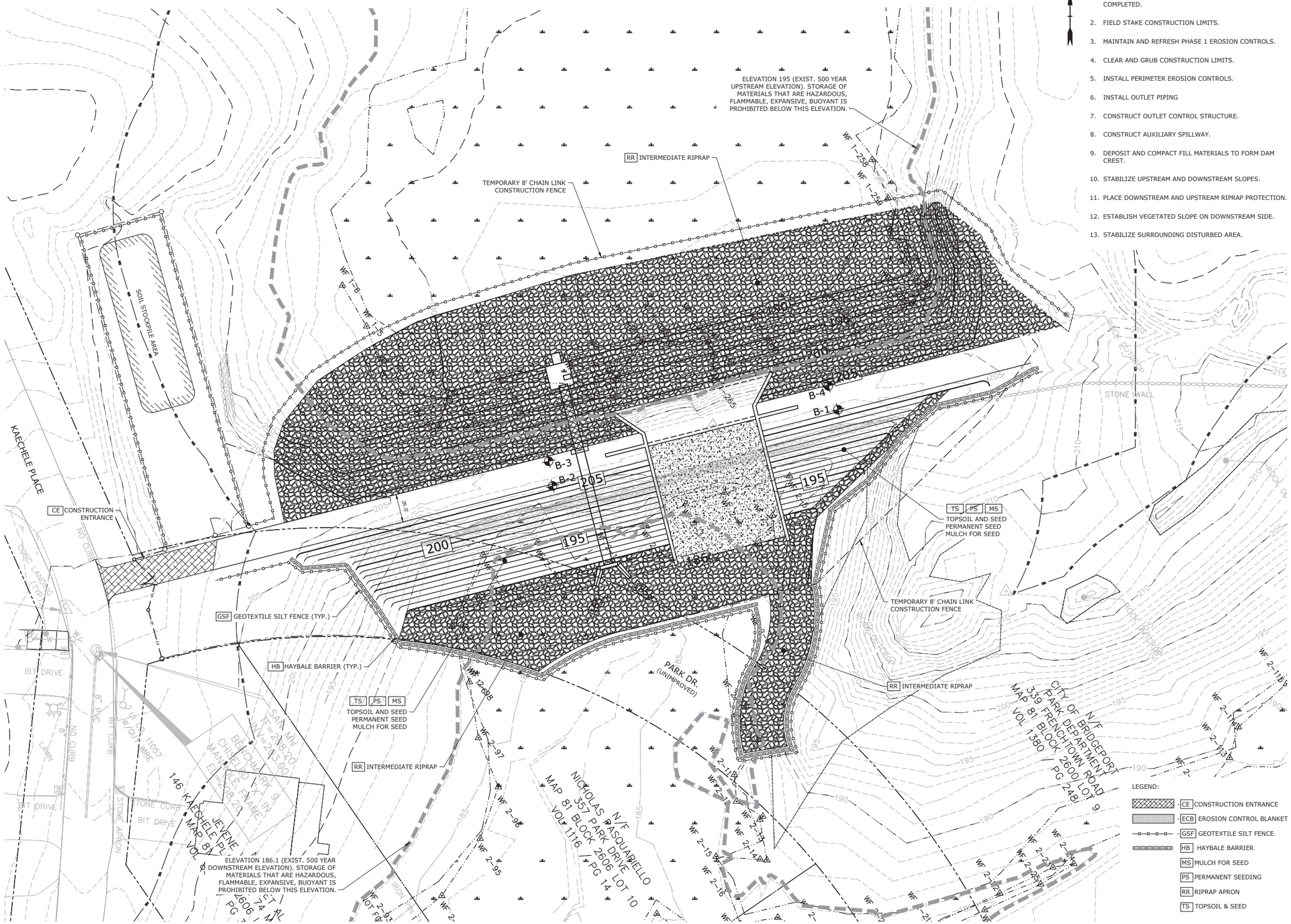

N

CONSTRUCTION SEQUENCE - PHASE 4

1. THIS PHASE MY NOT BE COMPLETED UNTIL PHASE 3 IS COMPLETED.
2. FIELD STAKE CONSTRUCTION LIMITS.
3. MAINTAIN AND REFRESH PHASE 1 EROSION CONTROLS.
4. CLEAR AND GRUB CONSTRUCTION LIMITS.
5. INSTALL PERIMETER EROSION CONTROLS.
6. INSTALL OUTLET PIPING
7. CONSTRUCT OUTLET CONTROL STRUCTURE.
8. CONSTRUCT AUXILIARY SPILLWAY.
9. DEPOSIT AND COMPACT FILL MATERIALS TO FORM DAM CREST.
10. STABILIZE UPSTREAM AND DOWNSTREAM SLOPES.
11. PLACE DOWNSTREAM AND UPSTREAM RIPRAP PROTECTION.
12. ESTABLISH VEGETATED SLOPE ON DOWNSTREAM SIDE.
13. STABILIZE SURROUNDING DISTURBED AREA.

LEGEND:

- CE CONSTRUCTION ENTRANCE
- ECB EROSION CONTROL BLANKET
- GSF GEOTEXTILE SILT FENCE
- HB HAYBALE BARRIER
- MS MULCH FOR SEED
- PS PERMANENT SEEDING
- RR RIPRAP APRON
- TS TOPSOIL & SEED

NOTE
1. DATUM: NAVD88

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SCALE IN FEET
0 20' 40'
GRAPHIC SCALE

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

July 31, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-C-440-SESC.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

SEDIMENT AND EROSION CONTROL PLAN - PHASE 4

SCALE: 1" = 20'

C4.40

09/11/2018

Last Saved: 7/30/2018
Plotted On:Sep 11, 2018-10:26am By: CanasJ
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EROSION CONTROL NOTES

1. ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL", DEP BULLETIN NO. 34, AND ALL AMENDMENTS AND ADDENDA THERETO AS PUBLISHED BY THE CONNECTICUT DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION.
2. LAND DISTURBANCE SHALL BE KEPT TO THE MINIMUM NECESSARY FOR CONSTRUCTION OPERATIONS.
3. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AS SHOWN ON THE PLAN AND ELSEWHERE AS ORDERED BY THE ENGINEER OR CITY.
4. ALL CATCH BASINS SHALL BE PROTECTED WITH A SILT SACKS, HAYBALE RING, SILT FENCE OR BLOCK AND STONE INLET PROTECTION THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL ALL DISTURBED AREAS ARE THOROUGHLY STABILIZED.
5. WHENEVER POSSIBLE, EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO CONSTRUCTION. SEE "EROSION CONTROL NARRATIVE".
6. ADDITIONAL CONTROL MEASURES SHALL BE INSTALLED DURING THE CONSTRUCTION PERIOD AS ORDERED BY THE ENGINEER.
7. ALL SEDIMENTATION AND EROSION CONTROL MEASURES SHALL BE MAINTAINED IN EFFECTIVE CONDITION THROUGHOUT THE CONSTRUCTION PERIOD.
8. SEDIMENT REMOVED SHALL BE DISPOSED OF OFF SITE OR IN A MANNER AS REQUIRED BY THE ENGINEER.
9. THE CONSTRUCTION CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION AND MAINTENANCE OF ALL CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PERIOD.
10. ALL DISTURBED AREAS TO BE LEFT EXPOSED FOR MORE THAN 30 DAYS SHALL BE PROTECTED WITH A TEMPORARY VEGETATIVE COVER. SEED THESE AREAS WITH PERENNIAL RYEGRASS AT THE RATE OF 40 LBS. PER ACRE (1 LB. PER 1,000 SQ. FT). APPLY SOIL AMENDMENTS AND MULCH AS REQUIRED TO ESTABLISH A UNIFORM STAND OF VEGETATION OVER ALL DISTURBED AREAS.
11. THE CONSTRUCTION CONTRACTOR SHALL UTILIZE APPROVED METHODS/MATERIALS FOR PREVENTING THE BLOWING AND MOVEMENT OF DUST FROM EXPOSED SOIL SURFACES ONTO ADJACENT PROPERTIES AND SITE AREAS.
12. THE CONSTRUCTION CONTRACTOR SHALL MAINTAIN A SUPPLY OF SILT FENCE/HAYBALES AND ANTI-TRACKING CRUSHED STONE ON SITE FOR EMERGENCY REPAIRS.
13. ALL DRAINAGE STRUCTURES SHALL BE PERIODICALLY INSPECTED WEEKLY BY THE CONSTRUCTION CONTRACTOR AND CLEANED TO PREVENT THE BUILD-UP OF SILT.
14. THE CONSTRUCTION CONTRACTOR SHALL CAREFULLY COORDINATE THE PLACEMENT OF EROSION CONTROL MEASURES WITH THE PHASING OF CONSTRUCTION.
15. KEEP ALL PAVED ROADWAYS CLEAN. SWEEP AND SCRAPE BEFORE FORECASTED STORMS.
16. TREAT ALL UNPAVED SURFACE WITH 4" MINIMUM OF TOPSOIL PRIOR TO FINAL STABILIZATION.
17. HAYBALE BARRIERS AND SILT FENCING SHALL BE INSTALLED ALONG THE TOE OF CRITICAL CUT AND FILL SLOPES.
18. THE CONTRACTOR SHALL NOTIFY THE CITY OF BRIDGEPORT'S ENVIRONMENTAL OFFICIAL PRIOR TO THE INSTALLATION OF EROSION CONTROLS, CUTTING OF TREES, OR ANY EXCAVATION.
19. ALL TRUCKS LEAVING THE SITE MUST BE COVERED.
20. SOME CONTROL MEASURES ARE PERMANENT. THESE STRUCTURES SHALL BE CLEANED AND REPLENISHED AT THE END OF CONSTRUCTION. LOCATIONS OF THE PERMANENT CONTROL STRUCTURES ARE SHOWN ON THE DRAINAGE PLANS.
23. ALL SEDIMENTATION AND EROSION CONTROLS SHALL BE CHECKED WEEKLY AND/OR AFTER EACH RAIN FALL EVENT. NECESSARY REPAIRS SHALL BE MADE WITHOUT DELAY.
24. PRIOR TO ANY FORECASTED RAINFALL, EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED AND REPAIRED AS NECESSARY.
25. AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, EROSION CONTROLS MAY BE REMOVED ONCE AUTHORIZATION TO DO SO HAS BEEN SECURED FROM THE CITY. DISTURBED AREAS SHALL BE SEEDED AND MULCHED.

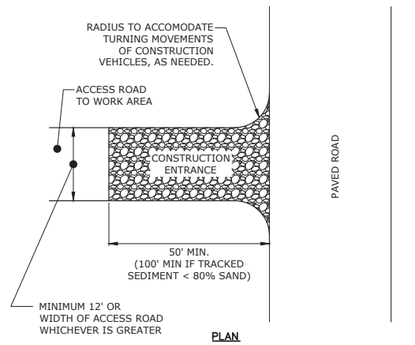
EROSION CONTROL NARRATIVE

THE STORMWATER MANAGEMENT MEASURES WILL ADDRESS THE STORMWATER QUALITY ONCE THE SITE HAS BEEN CONSTRUCTED AND STABILIZED. SEDIMENTATION AND EROSION CONTROL MEASURES WILL BE INSTALLED DURING CONSTRUCTION WHICH WILL MINIMIZE ADVERSE IMPACTS FROM CONSTRUCTION ACTIVITIES.

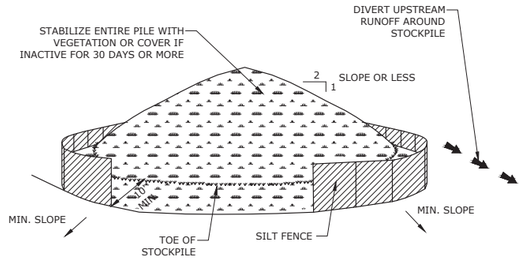
ALL SEDIMENTATION AND EROSION CONTROL MEASURES PROPOSED FOR THIS DEVELOPMENT HAVE BEEN DESIGNED IN ACCORDANCE WITH THE "2002 CONNECTICUT GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL" AS PUBLISHED BY THE CONNECTICUT COUNCIL ON SOIL EROSION AND WATER CONSERVATION. ADDITIONAL GUIDELINES HAVE ALSO BEEN FOLLOWED THAT ARE AVAILABLE FROM THE CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION AS RECOMMENDED FOR SEDIMENTATION CONTROL DURING CONSTRUCTION ACTIVITIES.

GENERAL

1. THE PROPOSED PROJECT IS ENTITLED "ELTON ROGERS PARK DAM RECONSTRUCTION" IN BRIDGEPORT, CONNECTICUT.
2. ESTIMATED:
   PROJECT START: SPRING 2019
   PROJECT COMPLETION: SUMMER 2020
3. EROSION CONTROL NARRATIVE REFERS TO DRAWINGS C4.00 THROUGH C4.40
4. THE SITE IS LOCATED AT ELTON ROGERS PARK IN BRIDGEPORT, CONNECTICUT.



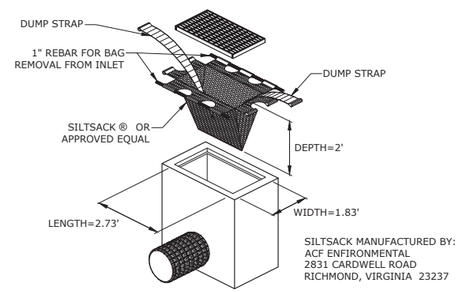
CONSTRUCTION ENTRANCE
NO SCALE



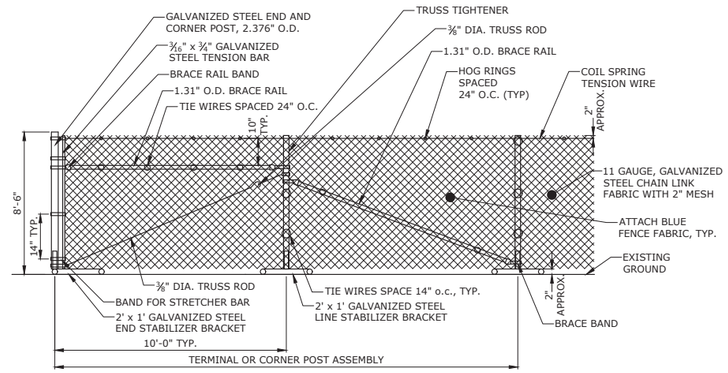
INSTALLATION NOTES:

1. AREA CHOSEN FOR STOCKPILING OPERATIONS SHALL BE DRY AND STABLE.
2. MAXIMUM SLOPE OF STOCKPILE SHALL BE 2H:1V.
3. UPON COMPLETION OF SOIL STOCKPILING, EACH PILE SHALL BE SURROUNDED WITH EITHER SILT FENCING OR HAYBALES, THEN STABILIZED WITH VEGETATION OR COVERED.

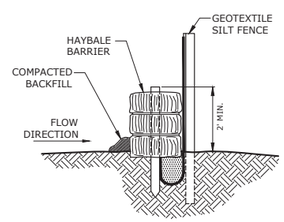
SOIL STOCKPILING
NO SCALE



SILTSACK®
NO SCALE

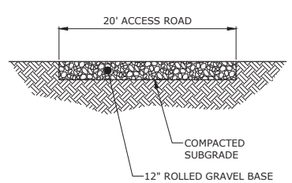


8' TEMPORARY CHAIN LINK CONSTRUCTION FENCE
NO SCALE

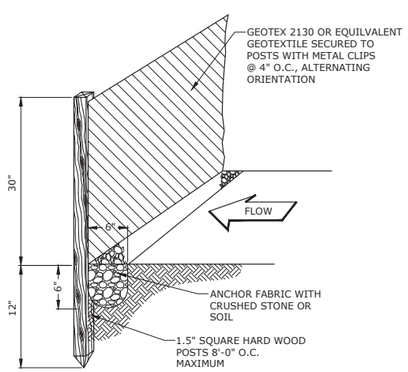


BACKFILL AND COMPACT THE EXCAVATED SOIL AS SHOWN ON THE UPHILL SIDE OF THE BARRIER TO PREVENT PIPING.

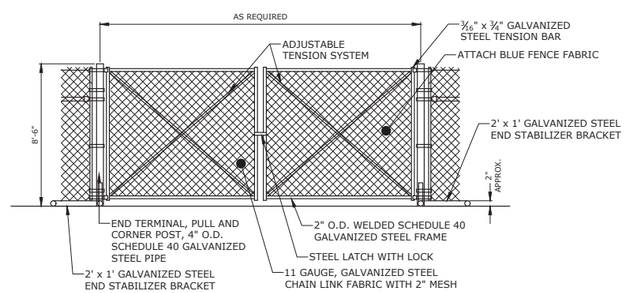
SILT FENCE AND HAYBALE
COMBINED BARRIER
NO SCALE



CONSTRUCTION
ACCESS ROAD
NO SCALE



SILT FENCE
NO SCALE



8' TEMPORARY CHAIN LINK CONSTRUCTION GATE
NO SCALE

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Shelton, CT 06484
(203) 712-1100

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

July 31, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE: B0694-C-440-SESC.dwg	
DRAWN BY:	TAS
CHECKED:	JAC
APPROVED:	DH

SEDIMENT & EROSION CONTROL NOTES, NARRATIVE, AND DETAILS

SCALE: AS NOTED

C4.50

09/11/2018

Last Saved: 7/30/2018
Plotted On: Sep 11, 2018 - 10:26am By: Canal
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EROSION CONTROL NARRATIVE

CONSTRUCTION SEQUENCE - PHASE 1

1. CONDUCT A PRE-CONSTRUCTION MEETING WITH THE OWNER OR OWNER'S REPRESENTATIVE, CITY ENGINEER, DESIGN ENGINEER, SITE ENGINEER, CONTRACTOR AND SITE SUPERINTENDENT TO ESTABLISH THE LIMITS OF CONSTRUCTION, CONSTRUCTION PROCEDURES AND MATERIAL STOCKPILE AREAS.
2. FIELD STAKE THE LIMITS OF CONSTRUCTION.
3. INSTALL ALL APPLICABLE SOIL AND EROSION CONTROL MEASURES AROUND THE PERIMETER OF THE SITE TO THE EXTENT POSSIBLE. THIS WILL INCLUDE SILTATION FENCE AROUND THE PROJECT AS SHOWN ON THE PLANS.
4. INSTALL CONSTRUCTION ACCESS ROAD AND ANTI-TRACKING PAVEMENT IN THE AREAS AS SHOWN ON THE PLANS. ALL CONSTRUCTION ACCESS SHALL BE INTO THE SITE THROUGH THE ANTI-TRACKING PADS.
5. ESTABLISH TEMPORARY STAGING AREA.
6. INSTALL SILT SACKS AND HAYBALE BARRIERS AROUND EXISTING CATCH BASINS TO REMAIN AS INDICATED ON THE PLANS.
7. INSTALL DRAINAGE SYSTEM TO THE EXTENT NECESSARY TO PROVIDE POSITIVE DRAINAGE.
8. PROVIDE SILT FENCE/HAYBALE BARRIER AROUND SOIL STOCKPILE AREA. PROVIDE TEMPORARY VEGETATIVE COVER (DEFINED IN EROSION CONTROL NOTES) ON ALL EXPOSED SURFACES.
9. ESTABLISH PERMANENT VEGETATIVE COVER.

CONSTRUCTION SEQUENCE - PHASE 2A

1. FIELD STAKE CONSTRUCTION LIMITS.
2. INSTALL PERIMETER EROSION CONTROLS.
3. CLEAR AND GRUB WITHIN LIMITS.
4. MAINTAIN AND REFRESH PHASE 1 CONTROLS.
5. EXCAVATE FOR CONSTRUCTION OF ACCESSWAY.
6. PROVIDE EROSION CONTROL BLANKET STABILIZATION FOR ACCESSWAY CUT AND FILL.
7. PROVIDE STABILIZED GRAVEL SURFACE FOR ACCESSWAY.

CONSTRUCTION SEQUENCE - PHASE 2B

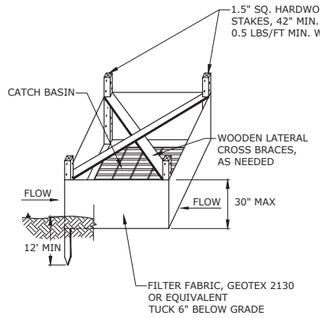
1. FIELD STAKE CONSTRUCTION LIMITS.
2. MAINTAIN AND REFRESH PHASE 1 AND PHASE 2A CONTROLS.
3. CLEAR AND GRUB WITHIN LIMITS.
4. EXCAVATE IMPOUNDMENT ENLARGEMENT AREA, HAUL MATERIAL OUT ALONG ACCESSWAY TO KAECHELE PLACE.
5. UPON COMPLETION OF EXCAVATION, STABILIZE DISTURBED AREA OF PHASE 2 WITH TOPSOIL AND SEED. SEED SHALL BE NEW ENGLAND WETMIX BY NEW ENGLAND WETLAND PLANTS, AMHERST, MASSACHUSETTS.

CONSTRUCTION SEQUENCE - PHASE 3

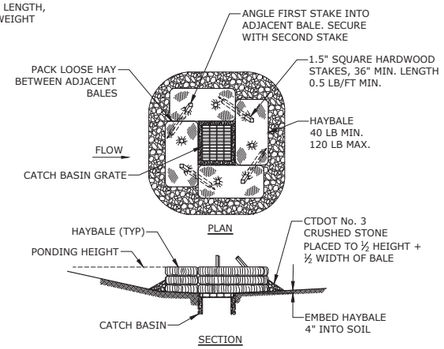
1. NOTE, THIS PHASE MAY BE PERFORMED CONCURRENTLY WITH PHASES 1, 2A AND/OR 2B, BUT MUST BE COMPLETED BEFORE BEGINNING PHASE 4.
2. FIELD STAKE CONSTRUCTION LIMITS.
3. INSTALL CONSTRUCTION ENTRANCE.
4. CLEAR AND GRUB CONSTRUCTION LIMITS.
5. INSTALL PERIMETER EROSION CONTROLS.
6. CONSTRUCT BERMS.
7. STABILIZE DISTURBED AREAS.

CONSTRUCTION SEQUENCE - PHASE 4

1. THIS PHASE MY NOT BE COMPLETED UNTIL PHASE 3 IS COMPLETED.
2. FIELD STAKE CONSTRUCTION LIMITS.
3. MAINTAIN AND REFRESH PHASE 1 EROSION CONTROLS.
4. CLEAR AND GRUB CONSTRUCTION LIMITS.
5. INSTALL PERIMETER EROSION CONTROLS.
6. INSTALL OUTLET PIPING
7. CONSTRUCT OUTLET CONTROL STRUCTURE.
8. CONSTRUCT AUXILIARY SPILLWAY.
9. DEPOSIT AND COMPACT FILL MATERIALS TO FORM DAM CREST.
10. STABILIZE UPSTREAM AND DOWNSTREAM SLOPES.
11. PLACE DOWNSTREAM AND UPSTREAM RIPRAP PROTECTION.
12. ESTABLISH VEGETATED SLOPE ON DOWNSTREAM SIDE.
13. STABILIZE SURROUNDING DISTURBED AREA.

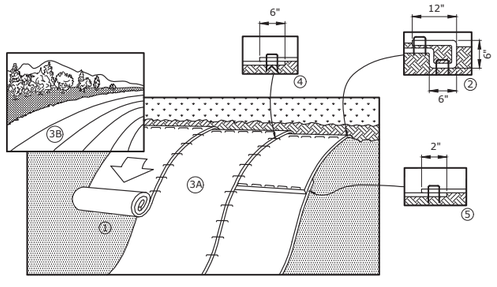


SILT FENCE INSTALLATION AT CATCH BASIN AT LOW POINTS



HAYBALE FILTER INSTALLATION AT CATCH BASIN AT LOW POINTS

CATCH BASIN EROSION CONTROL
NO SCALE

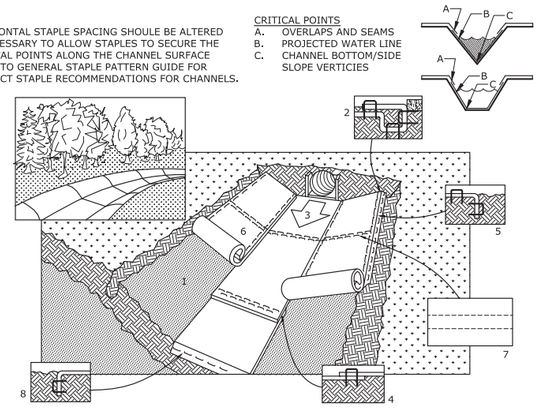


1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED.
2. BEGIN AT THE TOP OF THE SLOPE, 36" OVER THE GRADE BREAK, BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UPSLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES SPACED 12" APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS DOWN THE SLOPE. ALL BLANKETS MUST BE SECURELY FASTENED TO THE SOIL SURFACE BY PLACING STAPLES IN APPROPRIATE LOCATIONS AS SHOWN ON THE STAPLE PATTERN GUIDE.
4. STAPLE LENGTHS SHALL BE A MINIMUM OF 8 INCHES.
5. EROSION CONTROL BLANKET TO BE NORTH AMERICAN GREEN SC150BN

EROSION CONTROL BLANKET
FOR SLOPE PROTECTION
NO SCALE

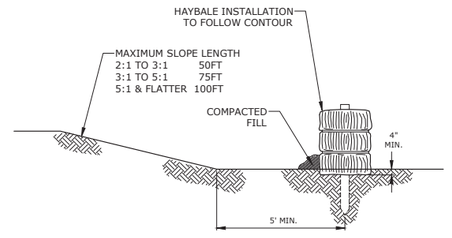
NOTE:
HORIZONTAL STAPLE SPACING SHOULE BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE RECOMMENDATIONS FOR CHANNELS.

CRITICAL POINTS
A. OVERLAPS AND SEAMS
B. PROJECTED WATER LINE
C. CHANNEL BOTTOM/SIDE SLOPE VERTICIES

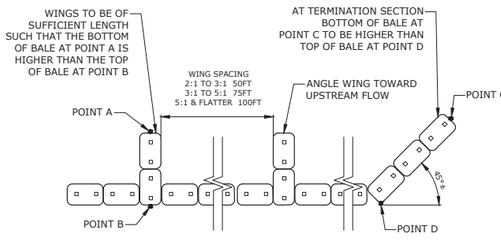


1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF LIME, FERTILIZER, AND SEED.
2. BEGIN AT THE TOP OF THE CHANNEL BY ANCHORING THE BLANKET IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
3. ROLL CENTER BLANKET IN DIRECTION OF WATER FLOW ON BOTTOM OF CHANNEL.
4. PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH A 6" OVERLAP. USE A DOUBLE ROW OF STAGGERED STAPLES 4" APART TO SECURE BLANKETS.
5. FULL LENGTH EDGE OF BLANKETS AT TOP OF SIDE SLOPES MUST BE ANCHORED IN 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
6. BLANKETS ON SIDE SLOPES MUST BE OVERLAPPED 4" OVER THE CENTER BLANKET AND STAPLED (2" FOR C350 MATTING).
7. IN HIGH FLOW CHANNEL APPLICATIONS, A STAPLE CHECK SLOT IS RECOMMENDED AT 30 TO 40 FOOT INTERVALS. USE A ROW OF STAPLES 4' APART OVER THE ENTIRE WIDTH OF THE CHANNEL. PLACE A SECOND ROW 4" BELOW THE FIRST ROW IN A STAGGERED PATTERN.
8. TERMINAL END OF THE BLANKETS MUST BE ANCHORED IN A 6" DEEP X 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.

EROSION CONTROL BLANKET INSTALLATION
NO SCALE



PLACEMENT AT TOE OF SLOPE



WING AND TERMINAL SECTIONS

HAYBALE BARRIER
NO SCALE

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Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

July 31, 2018

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DRAWN BY:	TAS
CHECKED:	JAC
APPROVED:	DH

SEDIMENT & EROSION CONTROL DETAILS

SCALE: AS NOTED

C4.51

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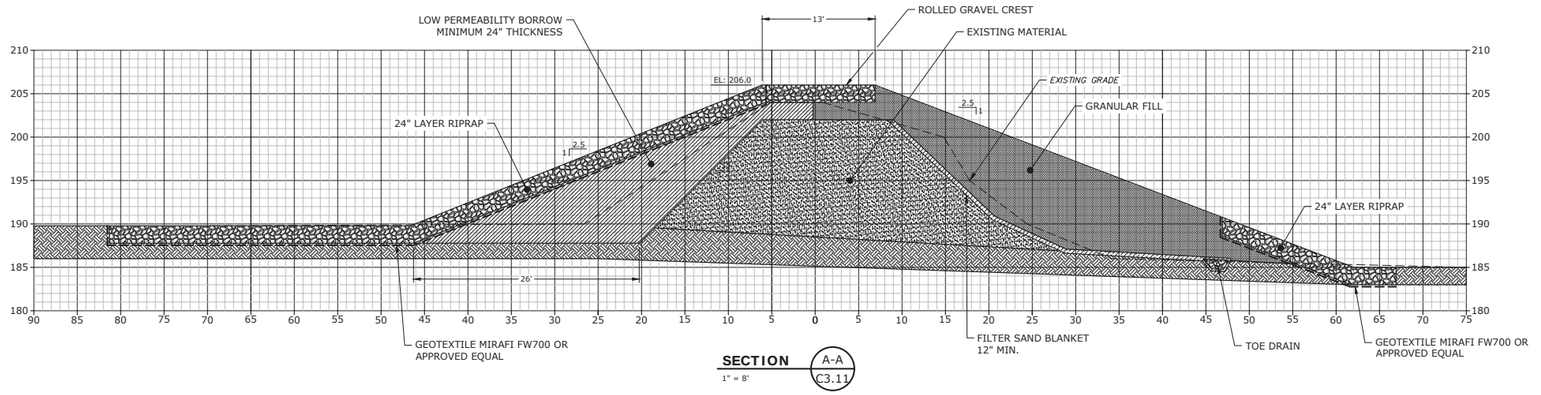
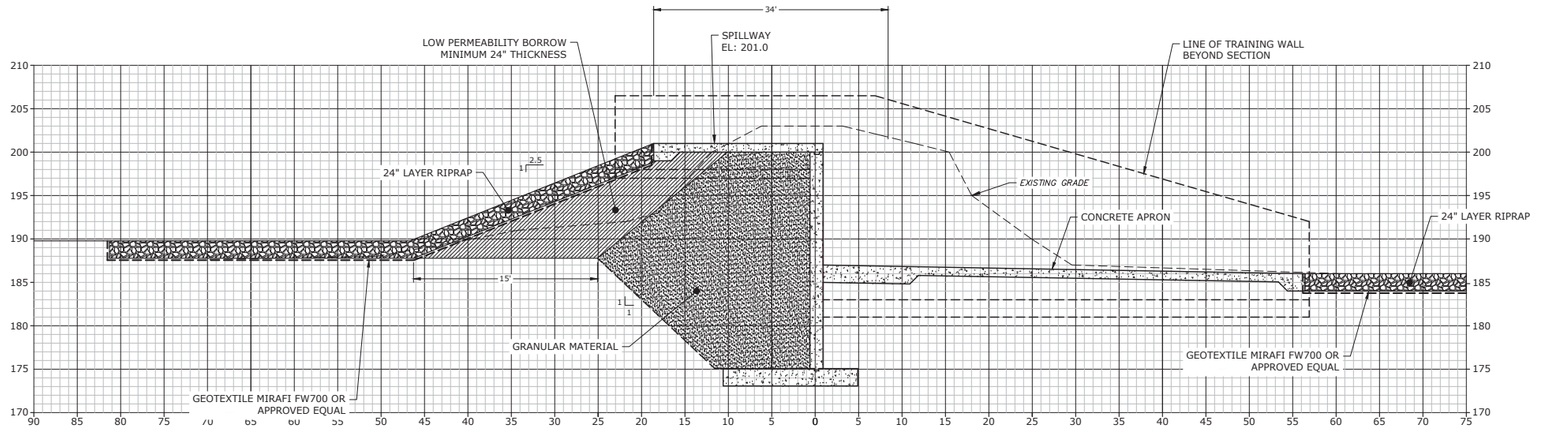
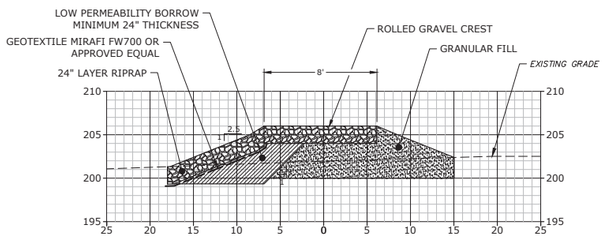


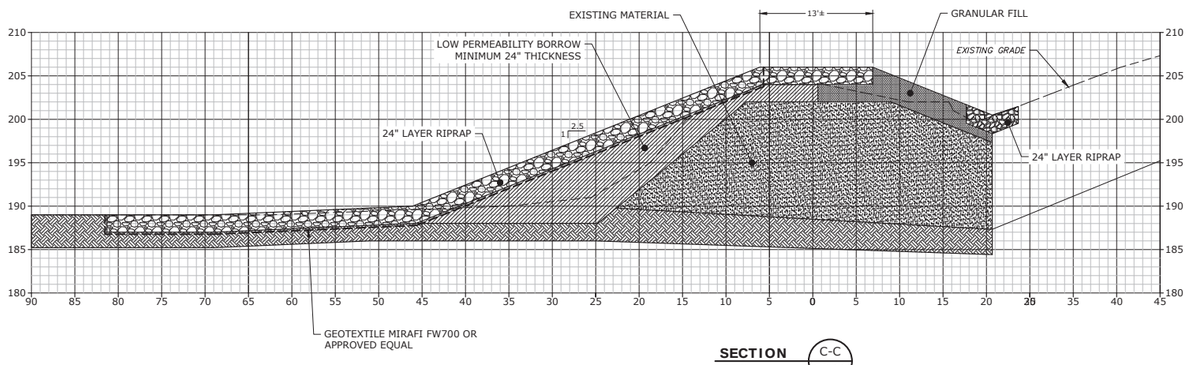
SECTION A-A C3.11
1" = 8'



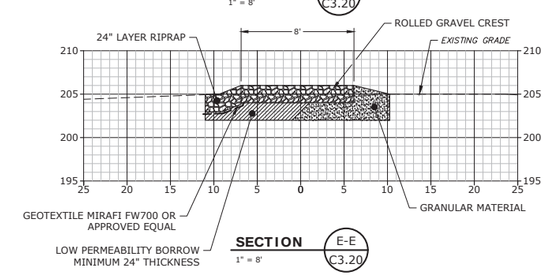
SECTION B-B C3.11
1" = 8'



SECTION D-D C3.20
1" = 8'



SECTION C-C C3.11
1" = 8'



SECTION E-E C3.20
1" = 8'

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(203) 712-1100

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

July 31, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-C-500-SECT.dwg
DRAWN BY:	
CHECKED:	JAC
APPROVED:	DH

CROSS-SECTIONS

SCALE: 1" = 8'

C5.00

09/11/2018

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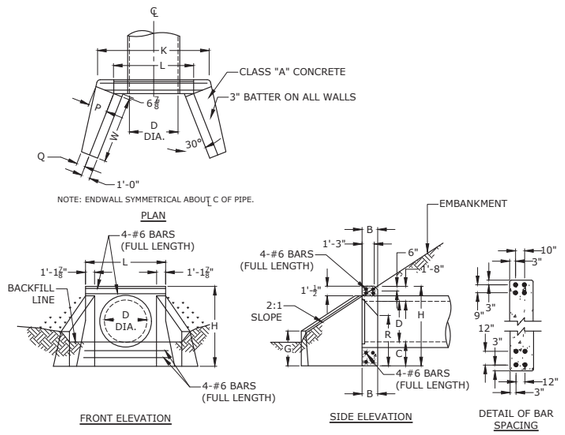
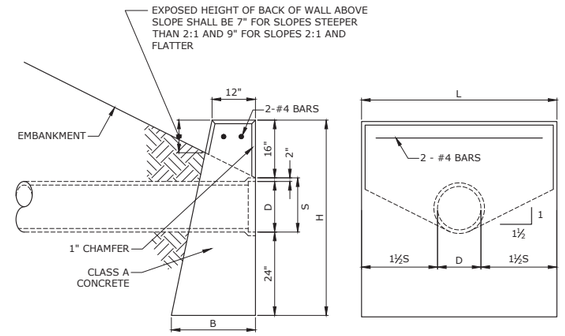


DIMENSIONS AND QUANTITIES FOR ONE WING TYPE ENDWALL												
D	B	C	G	H	K	L	P	Q	R	W	VOL.
IN. *	FT-IN	FT-IN	FT-IN	FT-IN	FT-IN	FT-IN	FT-IN	FT-IN	FT-IN	FT-IN	CY
24	1'-6"	2'-0"	3'-3"	6'-9"	9'-1 1/2"	7'-3 3/8"	1'-4 1/2"	0'-9 3/8"	3'-4 1/2"	5'-5 3/8"	5.87
36	1'-6"	2'-0"	3'-3"	6'-8"	9'-1 1/2"	7'-3 3/8"	1'-4 1/2"	0'-9 3/8"	3'-4 1/2"	5'-5 3/8"	5.87
42	1'-6"	2'-0"	3'-3"	7'-2"	9'-10 1/2"	7'-9 3/8"	1'-6 3/8"	0'-9 3/8"	3'-10 3/8"	6'-2 3/8"	6.67
48	1'-7"	2'-6"	3'-9"	8'-2"	10'-10"	8'-3 3/8"	1'-9 3/8"	0'-11 1/8"	4'-9"	7'-9 3/8"	9.11
60	1'-7"	2'-6"	3'-9"	9'-2"	12'-4 1/2"	9'-3 3/8"	2'-0 3/8"	0'-11 1/8"	5'-9"	10'-1 1/8"	12.43
72	1'-7"	2'-6"	3'-9"	10'-2"	13'-10 1/2"	10'-3 3/8"	2'-3 3/8"	0'-11 1/8"	6'-9"	12'-5"	16.30

* FOR D<36" USE DIMENSIONS LISTED FOR D=36"

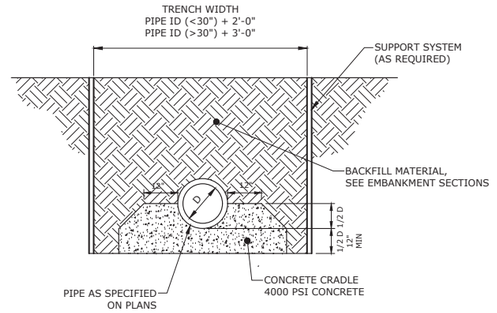
WING TYPE ENDWALLS - EW-02
NO SCALE



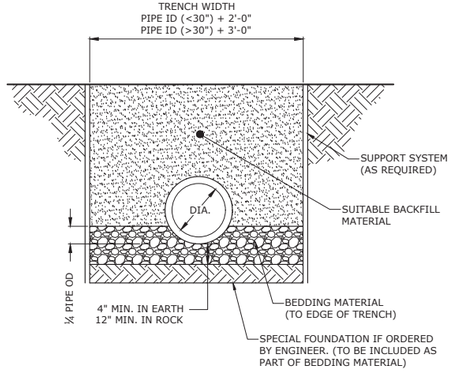
H=TOTAL HEIGHT OF ENDWALL
B=WIDTH OF BASE
D=INSIDE DIAMETER OF PIPE
S=HEIGHT OF SLOPE ABOVE PIPE INVERT AT FACE OF WALL (D+2)
L=LENGTH OF WALL (3S+D)

D	B	H	L	S	BATTER
12"	1'-11 1/4"	4'-6"	4'-6"	1'-2"	2 1/2"
15"	1'-11 7/8"	4'-9"	5'-6"	1'-5"	2 1/2"
18"	2'-0 1/4"	5'-0"	6'-6"	1'-8"	2 1/2"
24"	2'-1 3/4"	5'-6"	8'-6"	2'-2"	2 1/2"
30"	2'-3"	6'-0"	10'-6"	2'-8"	2 1/2"
36"	2'-7 1/8"	6'-6"	12'-6"	3'-2"	3"
42"	2'-9"	7'-0"	14'-6"	3'-8"	3"
48"	2'-10 1/2"	7'-6"	16'-6"	4'-2"	3"

CONCRETE ENDWALLS AND HEADWALLS EW-01 & HW-01
NO SCALE



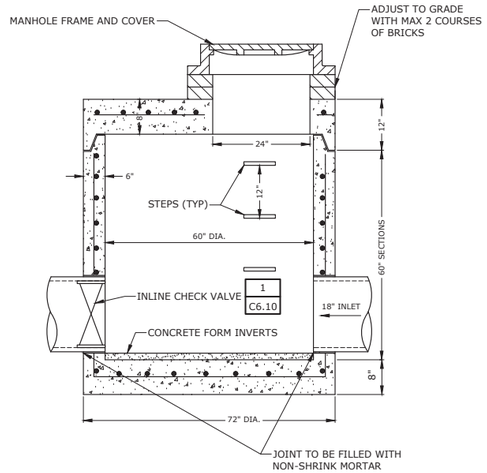
CIRCULAR PIPE THROUGH EMBANKMENTS
NO SCALE



NOTE:

1. ONLY FOR USE BEYOND DAM OR DIKE EMBANKMENT LIMITS

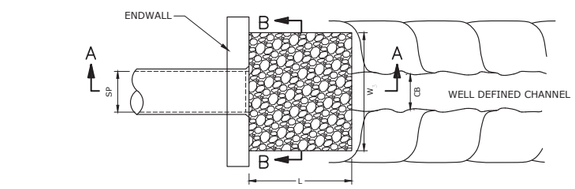
CIRCULAR R.C.P. TRENCH BEDDING
(PIPE DIAMETERS < 48")
NO SCALE



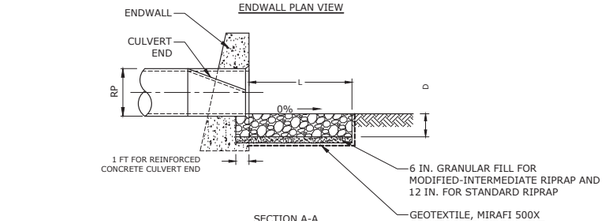
NOTES:

1. JOINT SEALANT SHALL BE PREFORMED BUTYL RUBBER MASTIC TYPE SEAL COMPLYING WITH AASHTO M198.
2. REINFORCING ASTM A185, 0.17 IN^2/VERT. FT.
3. 5,000 PSI CONCRETE @ 28 DAYS.
4. MANHOLE STEP TO BE USED MEETS OSHA REGULATION 20 CFR 1910.27 AND SECTION 11 ASTM SPECIFICATION C-473.
5. METHOD OF MANUFACTURE: WET CAST.
6. BASE SECTION MONOLITHIC.
7. KNOCKOUTS FOR PIPES 4" MIN. FROM TOP AND BOTTOM OF SECTION.

60" DIA. FLAT TOP MANHOLE
NO SCALE

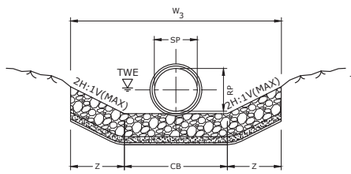


ENDWALL PLAN VIEW



SECTION A-A
CULVERT END AND ENDWALL

Z	CHANNEL SIDE SLOPE
2	2H : 1V
3	3H : 1V
4	4H : 1V
5	5H : 1V
6	6H : 1V



SECTION B-B
CULVERT END AND ENDWALL

CB= CHANNEL BOTTOM
TWE= TAILWATER ELEVATION
SP= { MAX. INSIDE PIPE SPAN (NON-CIRCULAR SECTIONS) / INSIDE PIPE DIAMETER (CIRCULAR SECTIONS)
RP= { MAX. INSIDE PIPE RISE (NON-CIRCULAR SECTIONS) / INSIDE PIPE DIAMETER (CIRCULAR SECTIONS)
LA= LENGTH OF RIPRAP APRON MEASURED FROM THE END OF CULVERT END SECTION OR FACE OF ENDWALL
D= { 12" IN. MODIFIED RIPRAP / 18" IN. INTERMEDIATE RIPRAP / 36" IN. STANDARD RIPRAP
W_3= USE WHICHEVER IS GREATER: { 3S / 2 (Z) (TWE + 0.3 M) + CP / 2 (Z) (0.7 RP) + CB

RIPRAP APRON AT EW-01
NO SCALE

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Bridgeport, Connecticut

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APPROVED:	DH

SITE DETAILS

SCALE: AS NOTED

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09/11/2018

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Plotted On: Sep 11, 2018 10:27am By: Casaki
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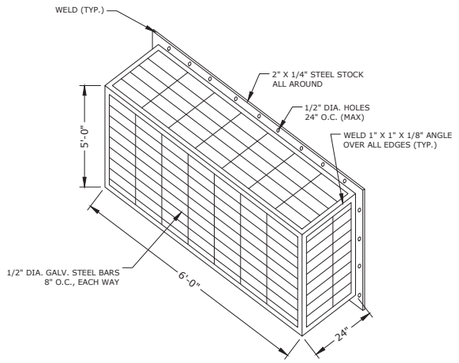

SECURITY SCREEN AT ENDWALL EW-02
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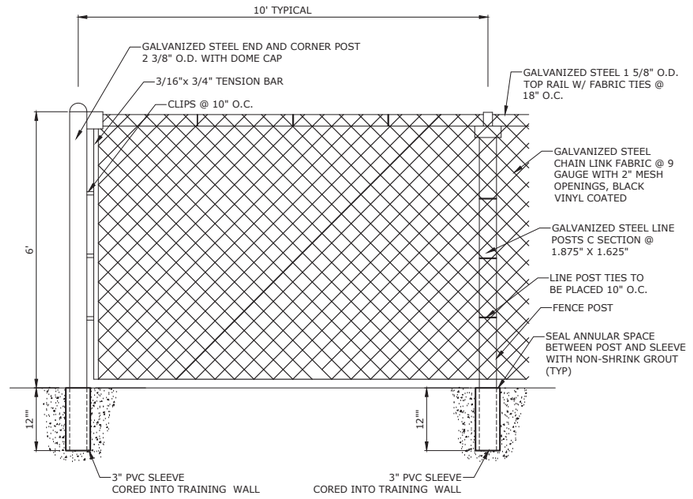
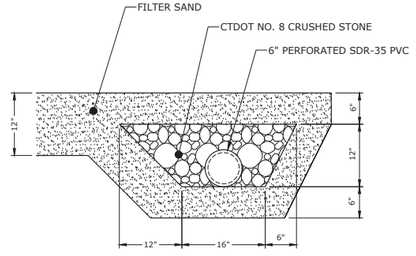


VINYL-COATED MESH
6' CHAIN LINK FENCE
NO SCALE



TOE DRAIN
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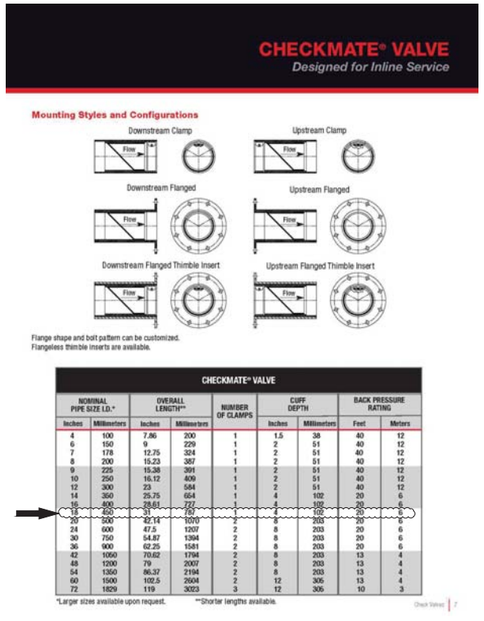
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NOMINAL PIPE SIZE I.D.*		OVERALL LENGTH**		NUMBER OF CLAMPS	CUFF DEPTH		BACK PRESSURE RATING	
Inches	Millimeters	Inches	Millimeters		Inches	Millimeters	Feet	Meters
4	100	7.86	200	1	1.5	38	40	12
6	150	9	229	1	2	51	40	12
7	178	12.75	324	1	2	51	40	12
8	200	15.23	387	1	2	51	40	12
9	225	15.38	391	1	2	51	40	12
10	250	16.12	409	1	2	51	40	12
12	300	23	584	1	2	51	40	12
14	350	25.75	654	1	4	102	20	6
16	400	28.61	727	1	4	102	20	6
18	450	31	787	1	4	102	20	6
20	500	42.14	1070	2	8	203	20	6
24	600	47.5	1207	2	8	203	20	6
30	750	54.87	1394	2	8	203	20	6
36	900	62.25	1581	2	8	203	20	6
42	1050	70.62	1794	2	8	203	13	4
48	1200	79	2007	2	8	203	13	4
54	1350	86.37	2194	2	8	203	13	4
60	1500	102.5	2604	2	12	305	13	4
72	1829	119	3023	3	12	305	10	3

*Larger sizes available upon request. **Shorter lengths available.

DETAIL 1 / C6.00

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Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

July 31, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-C-600-DETL.dwg
DRAWN BY:	
CHECKED:	JAC
APPROVED:	DH

SITE DETAILS

SCALE: AS NOTED

C6.10

Last Saved: 8/9/2018
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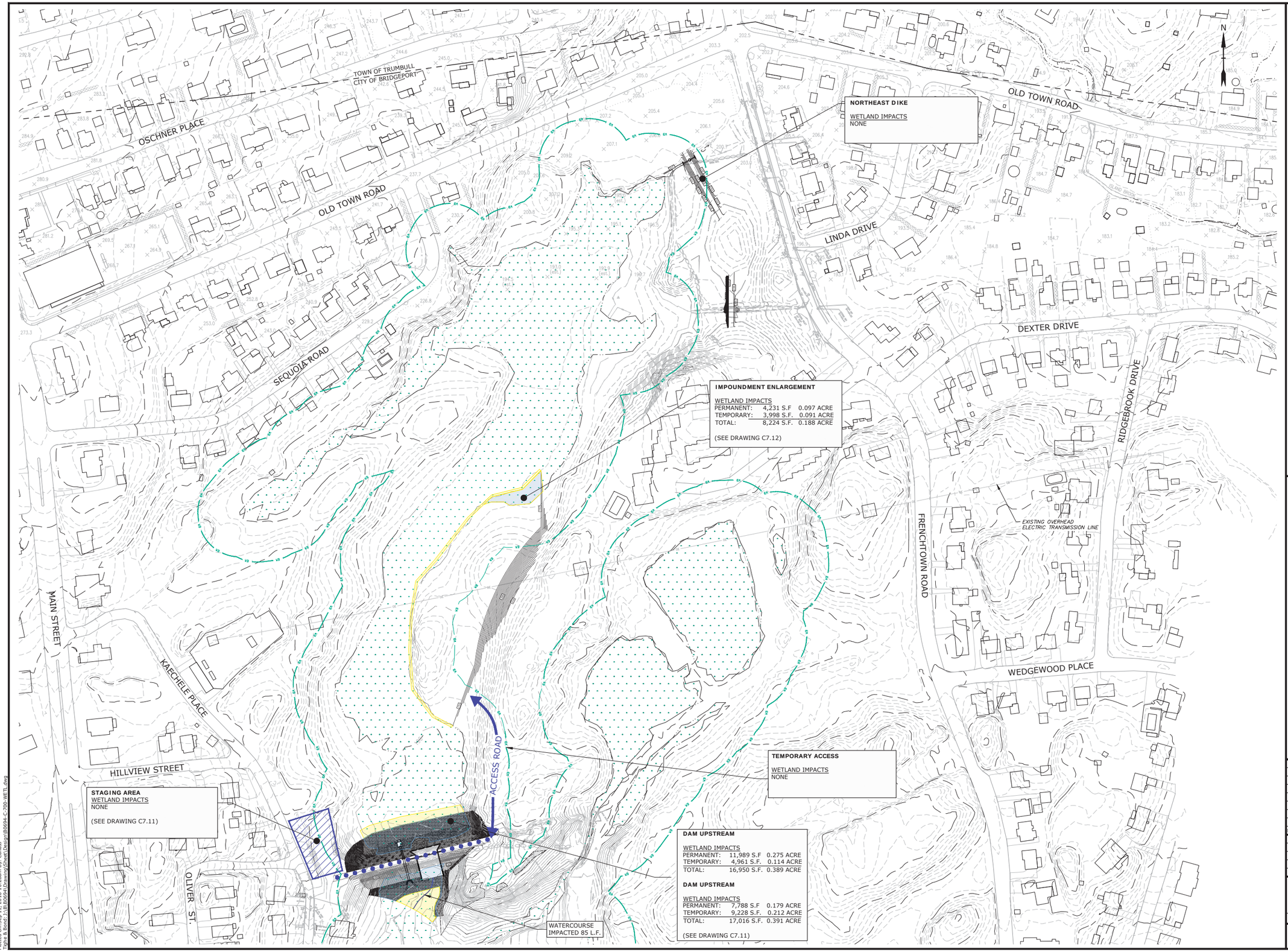

NORTHEAST DIKE

WETLAND IMPACTS
NONE

IMPOUNDMENT ENLARGEMENT

WETLAND IMPACTS

PERMANENT:	4,231 S.F	0.097 ACRE
TEMPORARY:	3,998 S.F.	0.091 ACRE
TOTAL:	8,224 S.F.	0.188 ACRE

(SEE DRAWING C7.12)

TEMPORARY ACCESS

WETLAND IMPACTS
NONE

STAGING AREA

WETLAND IMPACTS
NONE

(SEE DRAWING C7.11)

DAM UPSTREAM

WETLAND IMPACTS

PERMANENT:	11,989 S.F	0.275 ACRE
TEMPORARY:	4,961 S.F.	0.114 ACRE
TOTAL:	16,950 S.F.	0.389 ACRE

DAM UPSTREAM

WETLAND IMPACTS

PERMANENT:	7,788 S.F	0.179 ACRE
TEMPORARY:	9,228 S.F.	0.212 ACRE
TOTAL:	17,016 S.F.	0.391 ACRE

(SEE DRAWING C7.11)

WATERCOURSE IMPACTED 85 L.F.

SCALE IN FEET
0 100' 200'
GRAPHIC SCALE

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APPROVED:	DH

WETLAND IMPACTS

SCALE: 1" = 100'

C7.00

09/11/2018

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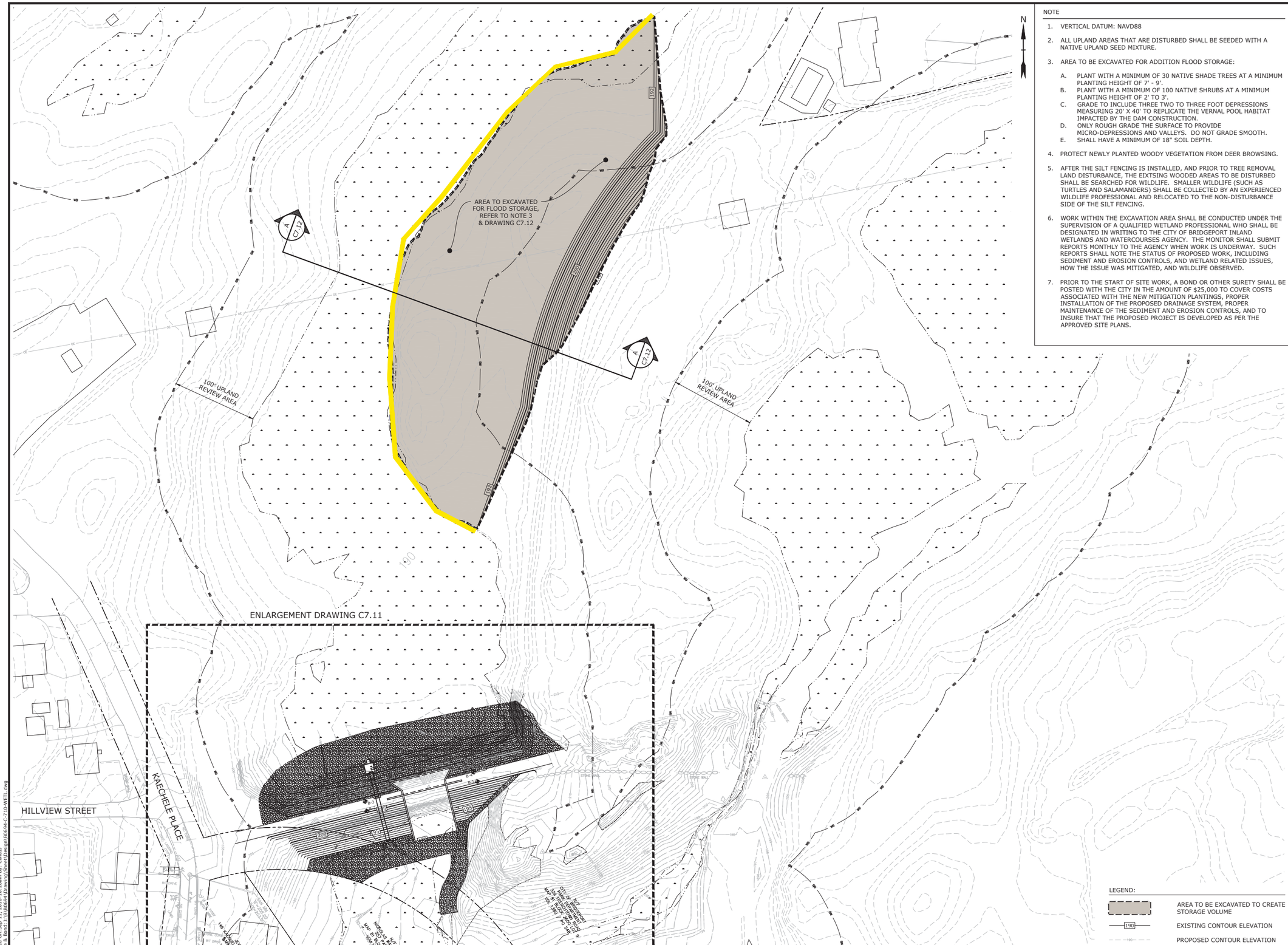

NOTE

1. VERTICAL DATUM: NAVD88
2. ALL UPLAND AREAS THAT ARE DISTURBED SHALL BE SEEDED WITH A NATIVE UPLAND SEED MIXTURE.
3. AREA TO BE EXCAVATED FOR ADDITION FLOOD STORAGE:
   - A. PLANT WITH A MINIMUM OF 30 NATIVE SHADE TREES AT A MINIMUM PLANTING HEIGHT OF 7' - 9'.
   - B. PLANT WITH A MINIMUM OF 100 NATIVE SHRUBS AT A MINIMUM PLANTING HEIGHT OF 2' TO 3'.
   - C. GRADE TO INCLUDE THREE TWO TO THREE FOOT DEPRESSIONS MEASURING 20' X 40' TO REPLICATE THE VERNAL POOL HABITAT IMPACTED BY THE DAM CONSTRUCTION.
   - D. ONLY ROUGH GRADE THE SURFACE TO PROVIDE MICRO-DEPRESSIONS AND VALLEYS. DO NOT GRADE SMOOTH.
   - E. SHALL HAVE A MINIMUM OF 18" SOIL DEPTH.
4. PROTECT NEWLY PLANTED WOODY VEGETATION FROM DEER BROWSING.
5. AFTER THE SILT FENCING IS INSTALLED, AND PRIOR TO TREE REMOVAL LAND DISTURBANCE, THE EIXTSING WOODED AREAS TO BE DISTURBED SHALL BE SEARCHED FOR WILDLIFE. SMALLER WILDLIFE (SUCH AS TURTLES AND SALAMANDERS) SHALL BE COLLECTED BY AN EXPERIENCED WILDLIFE PROFESSIONAL AND RELOCATED TO THE NON-DISTURBANCE SIDE OF THE SILT FENCING.
6. WORK WITHIN THE EXCAVATION AREA SHALL BE CONDUCTED UNDER THE SUPERVISION OF A QUALIFIED WETLAND PROFESSIONAL WHO SHALL BE DESIGNATED IN WRITING TO THE CITY OF BRIDGEPORT INLAND WETLANDS AND WATERCOURSES AGENCY. THE MONITOR SHALL SUBMIT REPORTS MONTHLY TO THE AGENCY WHEN WORK IS UNDERWAY. SUCH REPORTS SHALL NOTE THE STATUS OF PROPOSED WORK, INCLUDING SEDIMENT AND EROSION CONTROLS, AND WETLAND RELATED ISSUES, HOW THE ISSUE WAS MITIGATED, AND WILDLIFE OBSERVED.
7. PRIOR TO THE START OF SITE WORK, A BOND OR OTHER SURETY SHALL BE POSTED WITH THE CITY IN THE AMOUNT OF $25,000 TO COVER COSTS ASSOCIATED WITH THE NEW MITIGATION PLANTINGS, PROPER INSTALLATION OF THE PROPOSED DRAINAGE SYSTEM, PROPER MAINTENANCE OF THE SEDIMENT AND EROSION CONTROLS, AND TO INSURE THAT THE PROPOSED PROJECT IS DEVELOPED AS PER THE APPROVED SITE PLANS.

LEGEND:

- AREA TO BE EXCAVATED TO CREATE STORAGE VOLUME
- 190 EXISTING CONTOUR ELEVATION
- 190 PROPOSED CONTOUR ELEVATION

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GRAPHIC SCALE

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City of Bridgeport

Bridgeport, Connecticut

July 31, 2018

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CHECKED:	JAC
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WETLAND PLANTING PLAN OVERVIEW

SCALE: 1" = 50'

C7.10

09/11/2018

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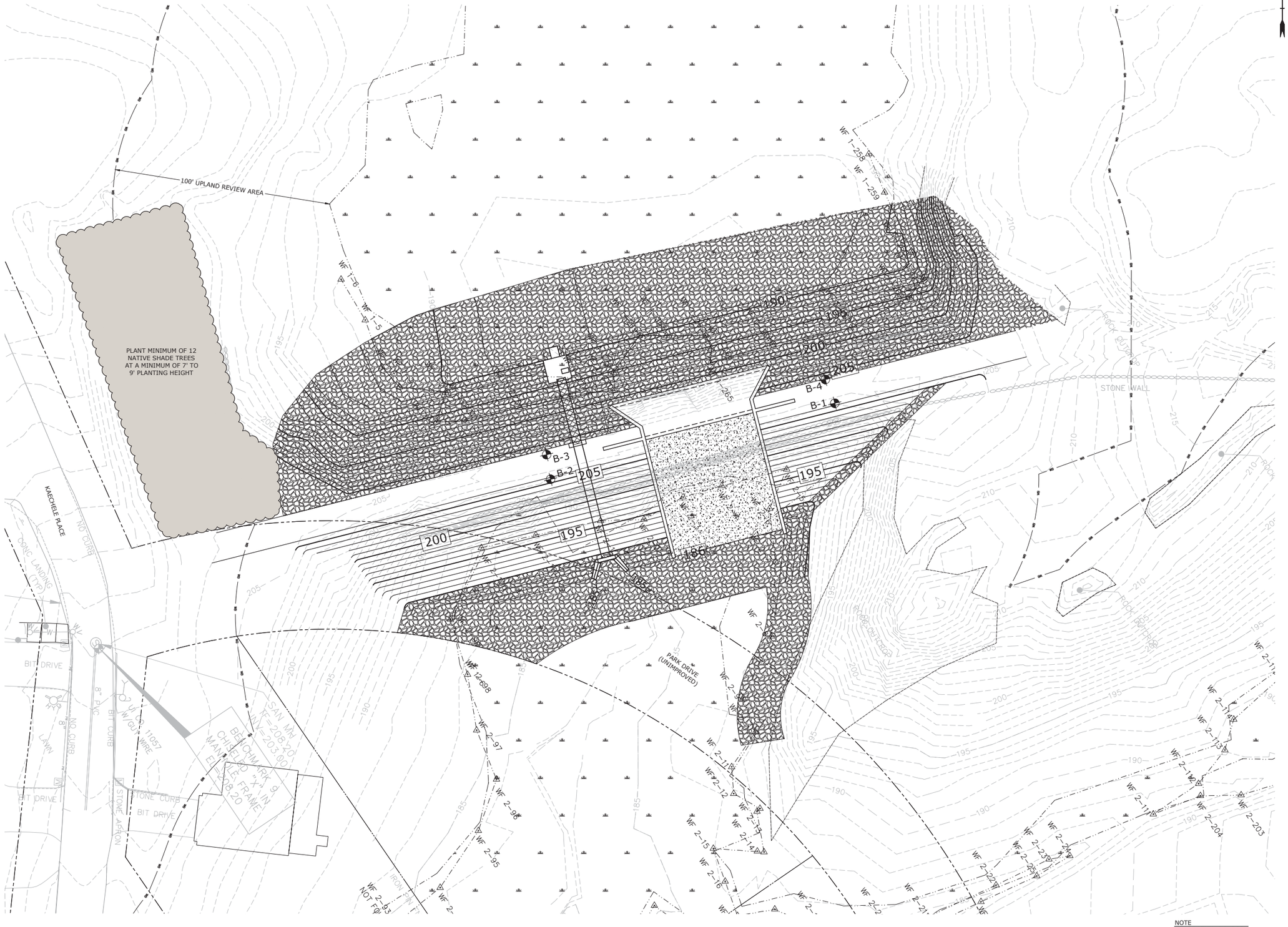

NOTE
1. DATUM: NAVD88

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SCALE IN FEET
0 20' 40'
GRAPHIC SCALE

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WETLAND PLANTING ENLARGEMENT PLAN - DAM AREA

SCALE: 1" = 20'

C7.11

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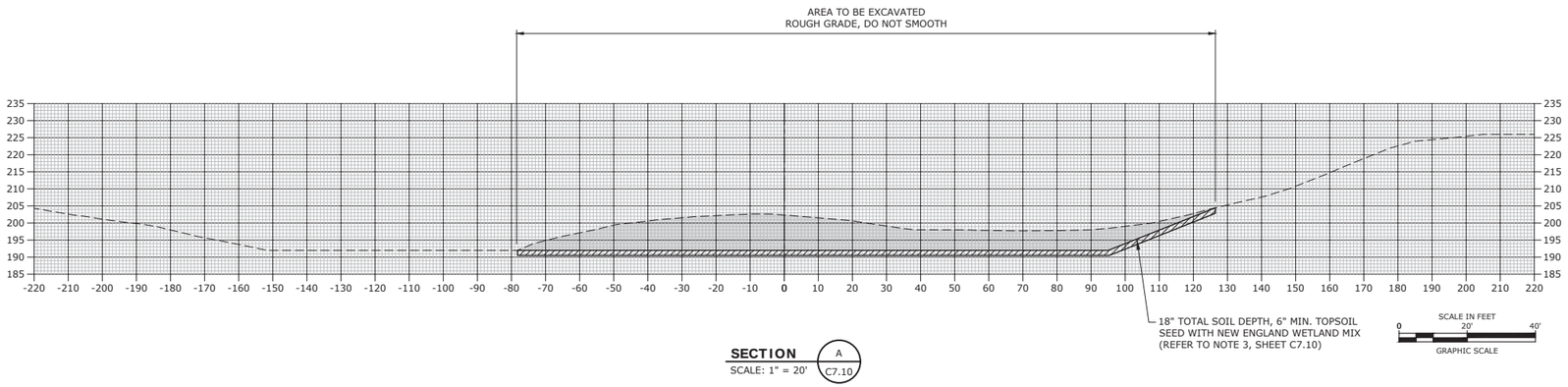
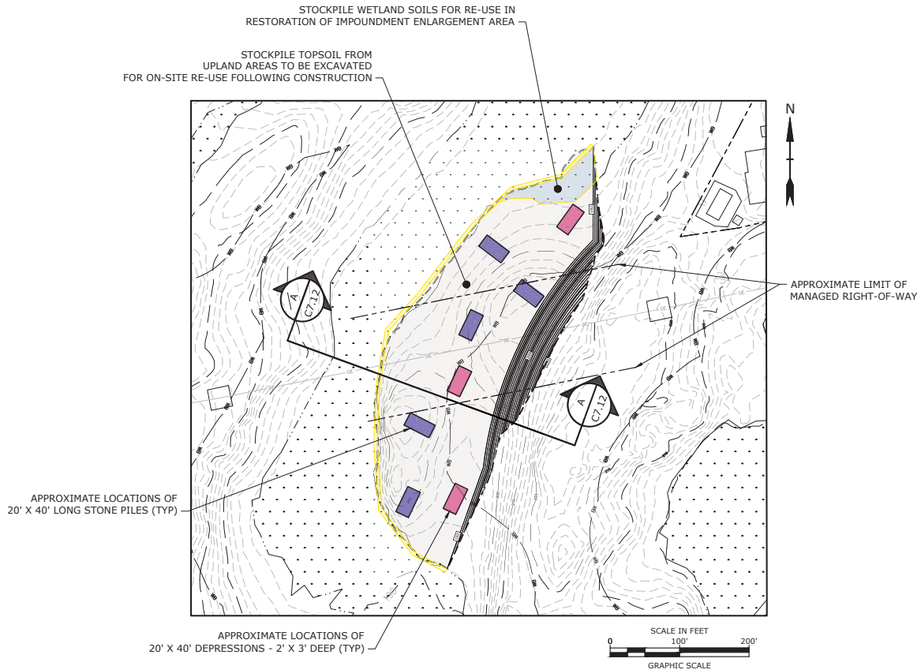


SECTION A / C7.10
SCALE: 1" = 20'



IMPOUNDMENT AREA ENLARGEMNT
SCALE: 1" = 100'

PLANTING PLAN NOTES:

1. THE FOLLOWING SPECIES ARE RECOMMENDED FOR THE TREE AND SHRUB PLANTING IN THE IMPOUNDMENT ENLARGEMENT AREA BASED ON PLANTS FOUND AT THE SITE. SELECTION FROM THIS LIST TO BE MADE BASED ON STOCK AVAILIBLITY WITH A MINIMUM OF 3 TREE SPECIES AND 5 SHRUB SPECIES. THIRTY TREES AND 100 SHRUBS WILL BE PLANTED IN THE EXPANSION AREA.
2. TREE SPECIES SHOULD NOT BE PLANTED WITHIN THE MANAGED POWERLINE ROW.
3. FINAL PLANTING LOCATIONS TO BE MADE IN THE FIELD BY THE SITE WETLAND SCIENTIST. PLANTINGS TO BE MADE IN GROUPINGS BASED ON THE RESULTING MICROTOPOGRAPHY OF THE ENLARGEMENT AREA.

IMPOUNDMENT ENLARGEMENT AREA RESTORATION NOTES:

MATERIAL TO BE STOCKPILED FROM THE ENLARGEMENT AREA FOR REUSE IN RESTORATION

- TOPSOIL AND WETLAND SOIL
- LARGE SURFACE STONES
- LARGE WOODY DEBRIS (FROM CUT TREES)

SPECIES LIST

TREES:

COMMON NAME	SCIENTIFIC NAME
Red Maple	*Acer rubrum*
Yellow birch	*Betula alleghaniensis*
Grey birch	*Betula populifolia*
Swamp White Oak	*Quercus bicolor*
Black Gum	*Nyssa sylvatica*
Tulip Tree	*Liriodendron tulipifera*

SHRUBS:

COMMON NAME	SCIENTIFIC NAME
Sweetpepper bush	*Clethra alnifolia*
Speckled alder	*Alnus incana*
Spicebush	*Lindera benzoin*
Highbush blueberry	*Vaccinium corymbosum*
Winterberry	*Ilex verticillata*
Silky dogwood	*Cornus amomum*
Arrowwood	*Viburnum dentatum*
Witchhazel	*Hamamelis virginiana*
Willow*Salix*	*bebbiana*
Buttonbush	*Cephalanthus occidentalis*

NOTE
1. DATUM: NAVD88

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WETLAND PLANTINGS ENLARGEMENT PLAN - STORAGE EXPANSION AREA

SCALE: AS NOTED

C7.12

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GENERAL

G1 STRUCTURAL WORK SHALL CONFORM TO CONNECTICUT STATE BUILDING CODE, LATEST EDITION, INCLUDING MOST RECENT ADDENDA, AND CONTRACT DOCUMENTS. IN CASE OF CONFLICT, MOST STRINGENT REQUIREMENT SHALL GOVERN.

G2 CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS RELATED TO THIS PROJECT.

G3 CONTRACTOR SHALL EXAMINE DRAWINGS FOR ALL TRADES FOR THE VERIFICATION OF LOCATION AND DIMENSIONS OF ALL CHASES, INSERTS, OPENINGS, SLEEVES AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS.

G4 PROVIDE CAULKING AT ALL CONTROL JOINTS. PROVIDE COMPRESSIBLE FILLER AND SEALANT AT ALL EXPANSION AND ISOLATION JOINTS.

G5 PROVIDE PREMOLDED JOINT FILLER WHERE SLABS ON GRADE ABUT WALLS AND COLUMNS.

REINFORCEMENT

R1 DETAILING, FABRICATION, AND ERECTION OF REINFORCEMENT, UNLESS OTHERWISE NOTED, SHALL CONFORM TO ACI "BUIDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318)" AND ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315)", LATEST EDITION.

R2 STEEL REINFORCEMENT UNLESS OTHERWISE SHOWN SHALL CONFORM TO ASTM A615 GRADE 60 MINIMUM (YIELD STRENGTH - 60,000 PSI).

R3 PROVIDE AND SCHEDULE ON SHOP DRAWINGS, ALL NECESSARY ACCESSORIES TO HOLD REINFORCEMENT SECURELY IN POSITION: MINIMUM REQUIREMENTS SHALL BE: HIGH CHAIRS, 4'-0" ON CENTER, #5 SUPPORT BAR FOR HIGH CHAIRS, SLAB BOLSTERS, 3'-6" ON CENTER, ALL WIRE CHAIRS AND BOLSTERS TO BE PLASTIC TIPPED.

R4 THE CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT SHALL BE AS FOLLOWS, UNLESS OTHERWISE SHOWN:

(A) CAST-IN-PLACE CONCRETE.	EXPOSED TO EARTH, WATER, OR WEATHER	NOT EXPOSED TO EARTH, WATER, OR WEATHER
(a) SLAB ON GRADE	3 INCHES	2 INCHES
(b) BEAM STIRRUPS	2 INCHES	1 1/2 INCHES
(c) BEAM MAIN REBARS	2 1/2 INCHES	2 INCHES
(d) SLAB'S #3 TO #5 INCL'S	1 1/2 INCHES	3/4 INCHES
(e) SLABS #6 TO #11 INCL'S	2 INCHES	3/4 INCHES
(f) WALL #11 BAR OR SMALLER	2 INCHES	3/4 INCHES

(g) Note: MAXIMUM DEVIATION FROM THESE REQUIREMENTS SHALL BE +1/4" FOR SECTIONS TEN (10) INCHES OR LESS, AND +1/2" FOR SECTIONS OVER TEN (10) INCHES THICK.

(B) IN NO CASE SHALL THE COVER BE LESS THAN THE BAR DIAMETER.

R5 WHERE CONTINUOUS BARS ARE CALLED FOR THEY SHALL BE RUN CONTINUOUSLY AROUND CORNERS AND LAPPED AT NECESSARY SPLICES OR HOOKED AT DISCONTINUOUS ENDS.

R6 WHERE REINFORCEMENT IS NOT SHOWN ON DRAWINGS, PROVIDE REINFORCEMENT IN ACCORDANCE WITH APPLICABLE TYPICAL DETAILS OR SIMILAR TO THAT SHOWN FOR MOST NEARLY SIMILAR SITUATIONS, AS DETERMINED BY THE ENGINEER. IN NO CASE SHALL REINFORCEMENT BE LESS THAN MINIMUM REINFORCEMENT PERMITTED BY THE APPLICABLE CODES, NOR LESS THAN THE FOLLOWING:

(A) STRUCTURAL SLABS-.0028 GROSS CONCRETE AREA IN EACH DIRECTION
(B) STRUCTURAL WALLS-.0028 GROSS CONCRETE AREA IN EACH DIRECTION

R7 WHERE REINFORCEMENT IS CALLED FOR IN SECTION, REINFORCEMENT IS CONSIDERED TYPICAL WHEREVER THE SECTION APPLIES.

R8 REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

R9 REINFORCEMENT COUPLER SPLICES SHALL BE MECHANICAL DEVICES CAPABLE OF TRANSMITTING THE ULTIMATE TENSILE AND COMPRESSIVE STRENGTH OF THE BAR.

R10 INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO SCHEDULED CONCRETE PLACEMENT. NOTIFY ENGINEER OF COMPLETION AT LEAST 24 HOURS PRIOR TO SCHEDULED COMPLETION OF PLACEMENT OR REINFORCEMENT.

R11 REINFORCEMENT SHALL BE SET BEFORE PLACING CONCRETE. SETTING ANY REINFORCEMENT INTO WET CONCRETE IS PROHIBITED.

CONCRETE

C1 CONCRETE WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318), AND SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING (ACI 301).

C2 CONCRETE SHALL BE CONTROLLED CONCRETE, PROPORTIONED, MIXED AND PLACED UNDER THE SUPERVISION OF AN APPROVED CONCRETE TESTING AGENCY OR THE ENGINEER.

C3 CONCRETE SHALL BE NORMAL WEIGHT CONCRETE AND SHALL HAVE A COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED AND SHALL BE AIR ENTRAINED (SEE SPECS)

C4 THE USE OF CONSTRUCTION JOINTS WHERE SHOWN ON THE DRAWINGS IS MANDATORY. OMISSIONS, ADDITIONS OR CHANGES SHALL NOT BE MADE EXCEPT WITH THE SUBMISSION OF A WRITTEN REQUEST TOGETHER WITH DRAWINGS OF THE PROPOSED JOINT LOCATIONS FOR APPROVAL OF THE STRUCTURAL ENGINEER.

C5 WHERE CONSTRUCTION JOINTS ARE NOT SHOWN, DRAWINGS SHOWING LOCATION OF CONSTRUCTION JOINTS AND CONCRETE PLACING SEQUENCE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PREPARATION OF THE REINFORCEMENT SHOP DRAWINGS.

C6 CONCRETE SLABS SHALL BE CAST SO THAT THE SLAB THICKNESS IS AT NO POINT LESS THAN THAT INDICATED ON THE DRAWINGS.

C7 CONCRETE SLABS AND WALLS SHALL BE CAST ALTERNATELY OR IN A CHECKERBOARD FASHION SO THAT ADJACENT SECTIONS ARE PLACED NO SOONER THAN THREE DAYS APART. AT LEAST TWO DAYS MUST ELAPSE AFTER PLACING CONCRETE IN WALLS BEFORE PLACING FLOOR SYSTEM SUPPORTED THEREON.

C8 CONCRETE SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS EXCEPT WHERE SHOWN OR NOTED.

C9 EXPOSED EDGES OF CONCRETE ELEMENTS SHALL HAVE CHAMFERED CORNERS.

C10 ONLY CRITICAL CONSTRUCTION JOINTS ARE SHOWN. SEE SPECIFICATIONS FOR REQUIRED MAXIMUM SPACING OF CONSTRUCTION JOINTS.

FOUNDATIONS

F1 NO CONCRETE SHALL BE PLACED IN WATER OR ON FROZEN GROUND.

F2 BOTTOM OF FOUNDATION ELEVATIONS GIVEN ON DRAWINGS ARE TO BE CONSIDERED MINIMUM DEPTHS. CONTRACTOR SHALL HAVE FURTHER EXCAVATION AS REQUIRED TO REACH GOOD BEARING.

F3 ALL EXCAVATIONS FOR FOOTINGS SHALL BE FINISHED BY HAND FOR THE LAST 6".

F4 ALL FINISHED EXCAVATIONS SHALL BE INSPECTED BY THE ENGINEER BEFORE ANY CONCRETE IS PLACED.

F5 ALL BACKFILL UNDER OR ADJACENT TO ANY PORTION OF THE STRUCTURES SHALL BE COMPACTED IN 6" LIFTS. SEE SPECIFICATIONS.

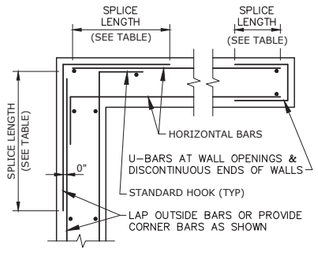
F6 REMOVE UNSUITABLE FILL AND/OR IMPROVE THE SUBGRADE PER SPECIFICATION REQUIREMENTS. BACKFILL WITH COMPACTED STRUCTURAL (GRANULAR) FILL UP TO THE UNDERSIDE OF THE BUILDING SLABS. SEE SPECIFICATIONS.

BAR SIZE DESIGNATION		DEVELOPMENT LENGTH (INCHES)	SPLICE LENGTH (INCHES)	
ENGLISH	METRIC	Ld	CLASS B	CLASS B TOP BARS
#5	#16	24	31	40
#6	#19	29	37	48
#7	#22	42	54	70
#8	#25	48	62	81

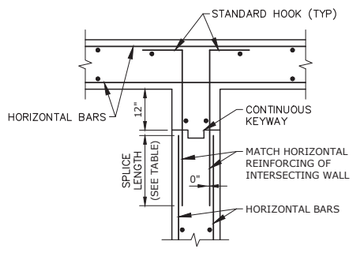
REBAR SPLICE LENGTH SCHEDULE

NOTES:

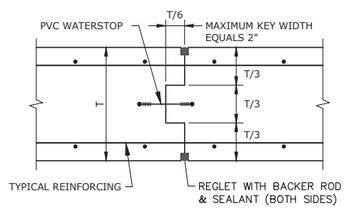
1. IF CLEAR SPACING BETWEEN THE REBARS IS LESS THAN THREE BAR DIAMETERS, OR IF COVER IS LESS THAN TWO BAR DIAMETERS, INCREASE THE SPLICE LENGTH BY AN ADDITIONAL 50%.
2. IF EPOXY COATED REBAR IS USED, INCREASE THE SPLICE LENGTH BY AN ADDITIONAL 50%.
3. IF LIGHTWEIGHT CONCRETE IS USED, INCREASE THE SPLICE LENGTH BY AN ADDITIONAL 30%.
4. THE MINIMUM REBAR SPLICE LENGTH SCHEDULE IS BASED ON F'c= 4,000 PSI AND Fy= 60,000 PSI. ADJUST FOR OTHER STRENGTHS USING ACI-318.
5. FOR HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW, INCREASE THE DEVELOPMENT LENGTH BY AN ADDITIONAL 30%.
6. WHEN BARS OF DIFFERENT SIZE ARE LAP SPLICED, THE SPLICE LENGTH SHALL BE THE LARGER OF EITHER THE DEVELOPMENT LENGTH OF THE LARGER BAR OR THE SPLICE LENGTH OF THE SMALLER BAR.



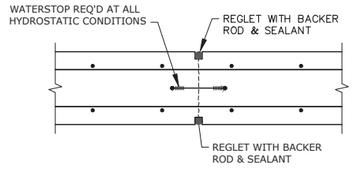
PLAN OF HORIZONTAL REINFORCING AT CORNERS OF CONCRETE WALLS
NO SCALE



PLAN OF HORIZONTAL REINFORCING AT CONCRETE WALL INTERSECTIONS
NO SCALE



CONSTRUCTION JOINT
NO SCALE



NOTE:
CONCRETE IS PLACED MONOLITHICALLY ON BOTH SIDES OF ALL CONTRACTION JOINTS

CONCRETE WALL CONTRACTION JOINT
NO SCALE

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Bridgeport, Connecticut

July 31, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-S-100-STRUC.dwg
DRAWN BY:	T&B
CHECKED:	JAC
APPROVED:	DH

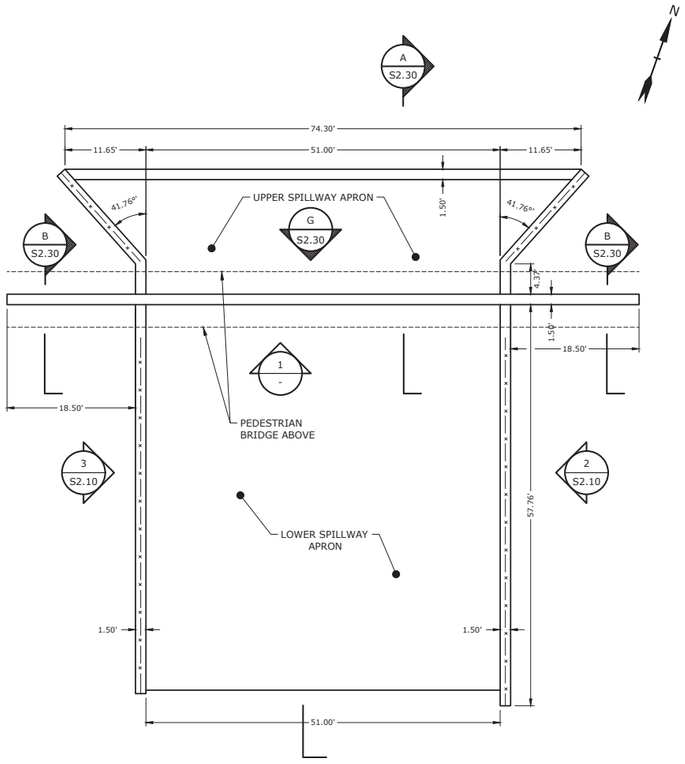
STRUCTURAL GENERAL NOTES AND DETAILS

SCALE: AS NOTED

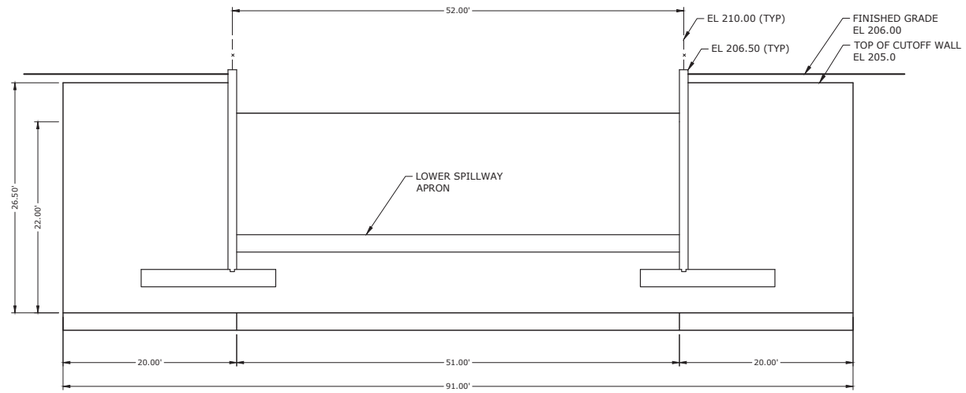
S1.00

09/11/2018

Last Saved:7/30/2018
Plotted On:Sep 11, 2018 - 10:29am By: Casaki
Plotted & Saved:J:\B0694\Drawings\Sheet Design\B0694-S-100-STRUC.dwg



SPILLWAY DETAIL - PLAN VIEW
SCALE: 1"=10'



SPILLWAY CUTOFF WALL ELEVATION

ELEVATION 1 -
SCALE: 1/8" = 1'

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Elton Rogers Park Dam Reconstruction

City of Bridgeport

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July 31, 2018

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PROJECT NO:	B0694
FILE: B0694-S-100-STRUC.dwg	
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APPROVED:	DH

SPILLWAY PLAN AND ELEVATION

SCALE: AS NOTED

S2.00

09/11/2018

Last Saved: 7/30/2018
Plotted On:Sep 11, 2018-10:29am By: CanasJ
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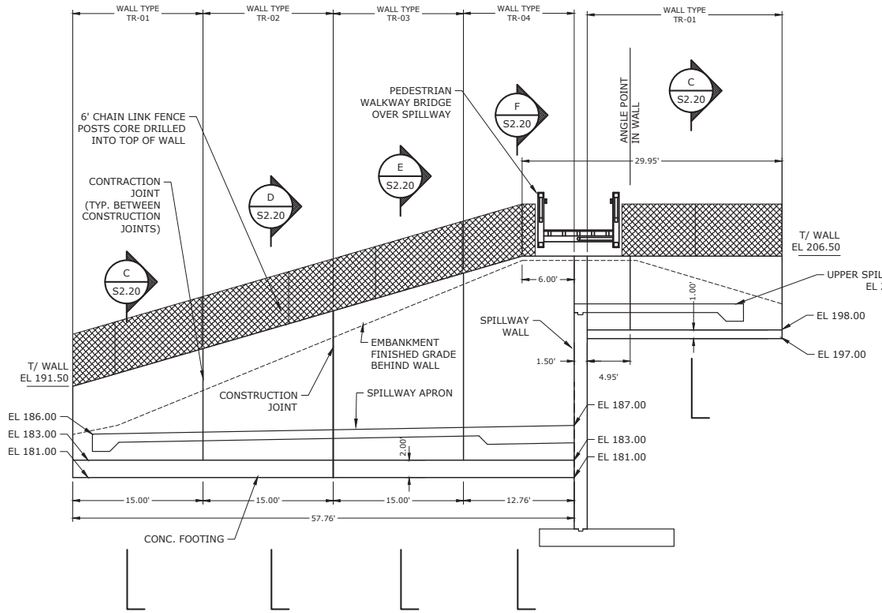
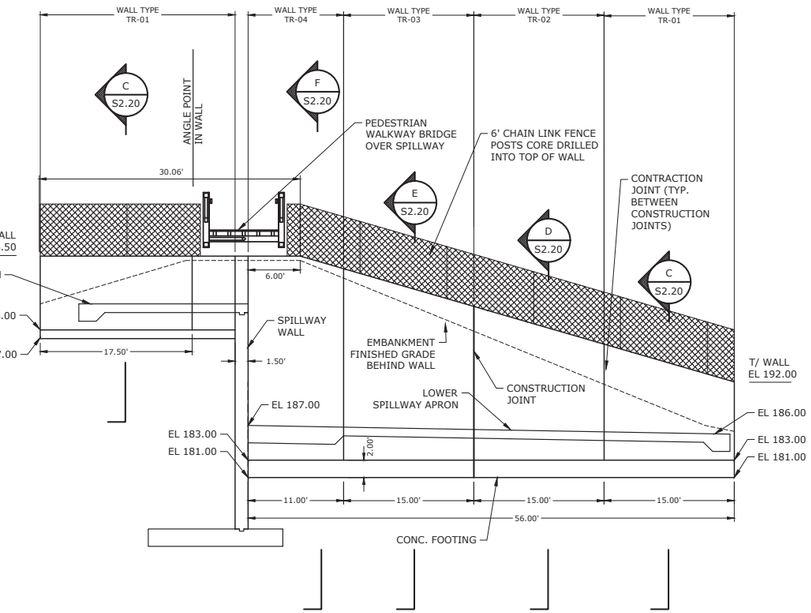


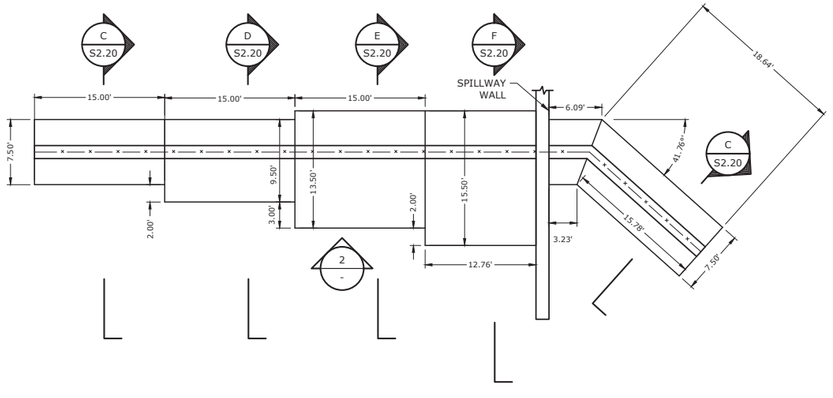
EAST TRAINING WALL DETAIL - ELEVATION

ELEVATION 2 S2.00
SCALE: 1/8" = 1'

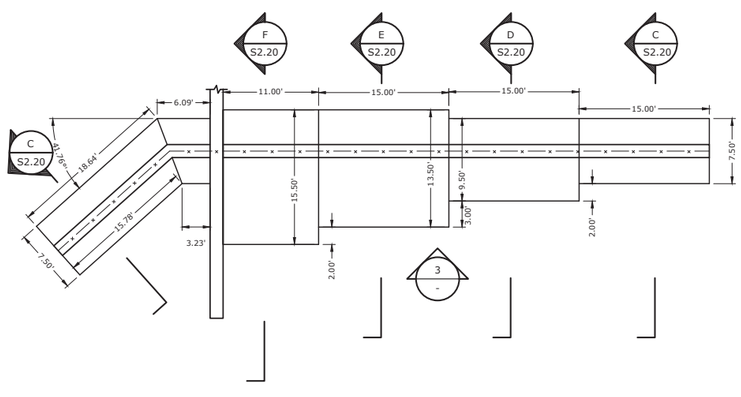


WEST TRAINING WALL DETAIL - ELEVATION

ELEVATION 3 S2.00
SCALE: 1/8" = 1'



EAST TRAINING WALL FOOTING DETAIL - PLAN VIEW
SCALE: 1"=8'



WEST TRAINING WALL FOOTING DETAIL - PLAN VIEW
SCALE: 1"=8'

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APPROVED:	DH

SPILLWAY WALL ELEVATIONS AND FOUNDATION PLAN

SCALE: AS NOTED

S2.10

09/11/2018

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Plotted On:Sep 11, 2018-10:30am By: Canas1
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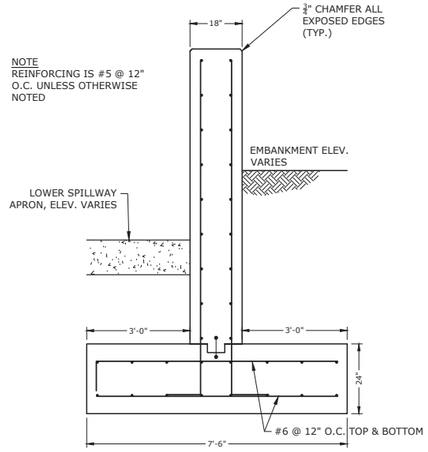
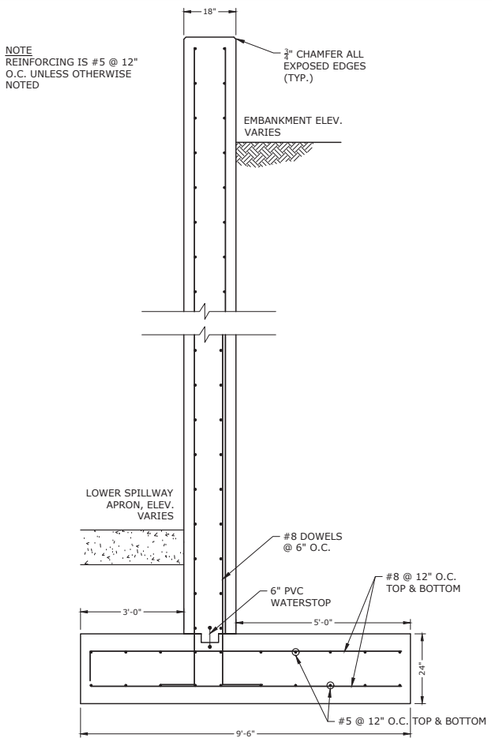


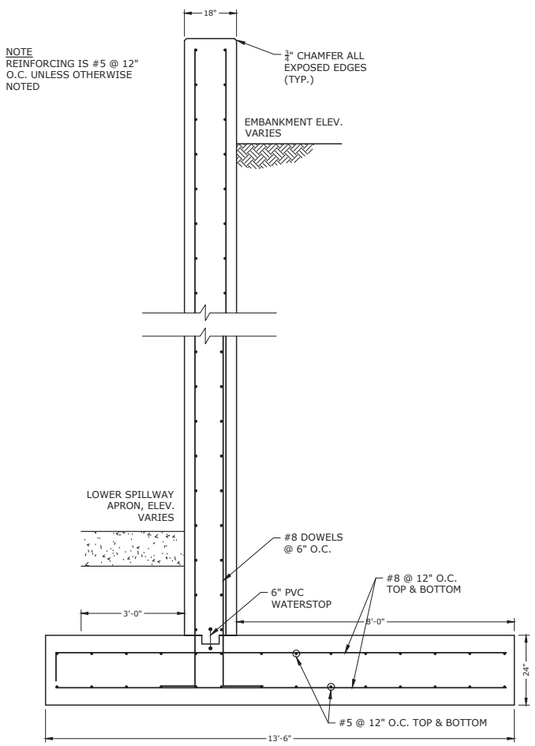
WALL TYPE TR-1

SECTION C
SCALE: 1/2" = 1'



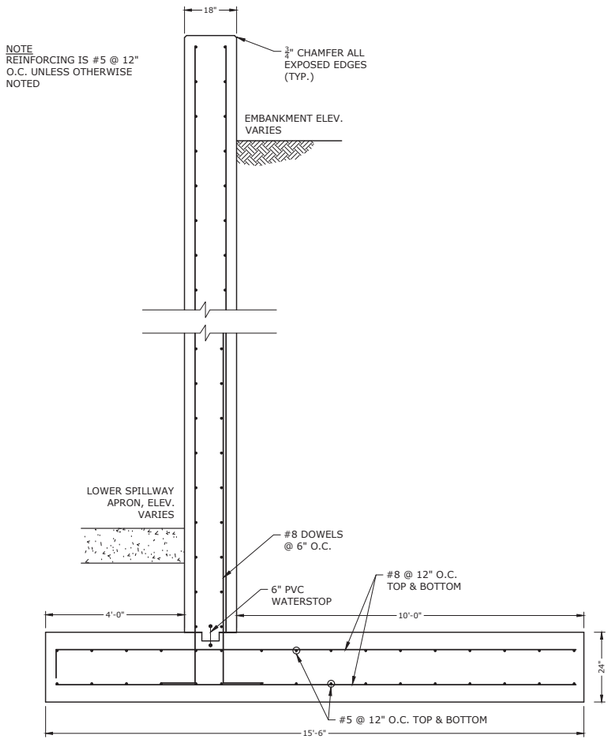
WALL TYPE TR-2

SECTION D
SCALE: 1/2" = 1'



WALL TYPE TR-3

SECTION E
SCALE: 1/2" = 1'



WALL TYPE TR-4

SECTION F
SCALE: 1/2" = 1'

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APPROVED:	DH

SPILLWAY WALL SECTIONS

SCALE: AS NOTED

S2.20

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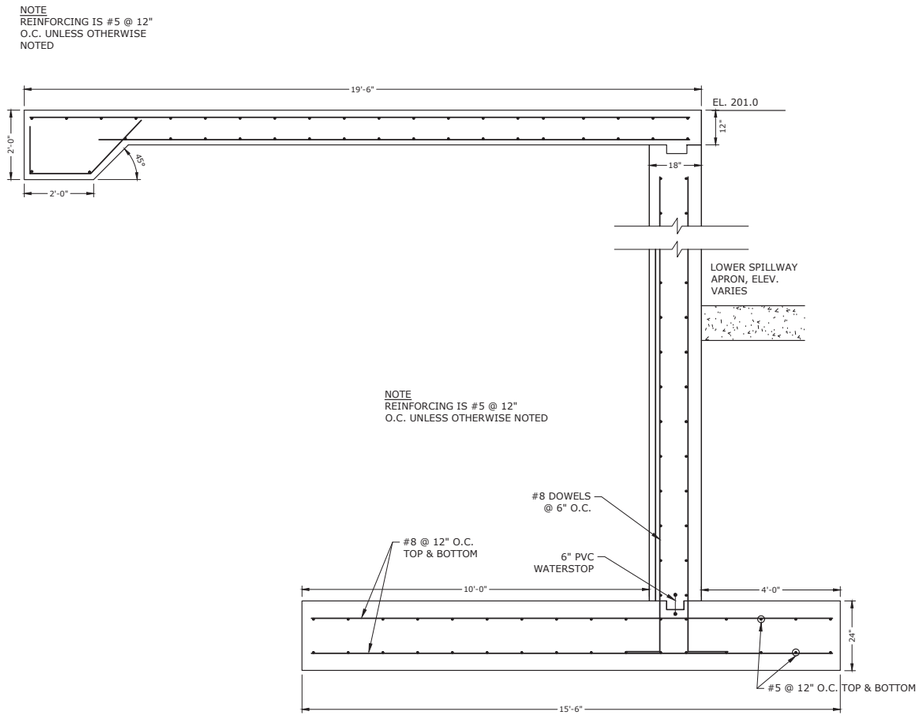
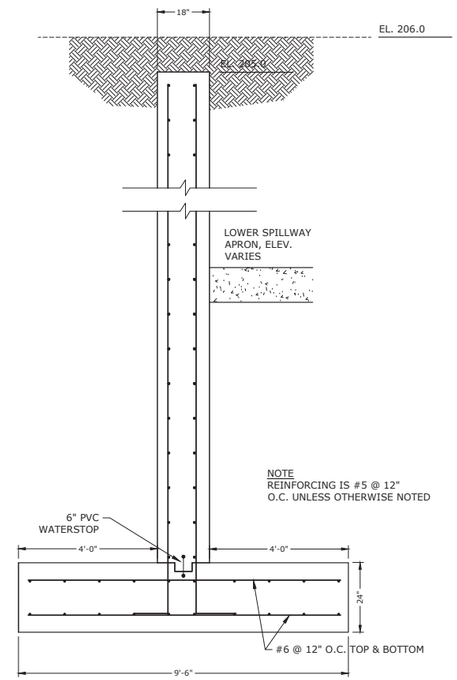
Plotted On:Sep 11, 2018-10:31am By: CanasJ
Tighe & Bond:J:\B\B0694\Drawing\Sheet\Design\B0694-S-100-STRUC.dwg



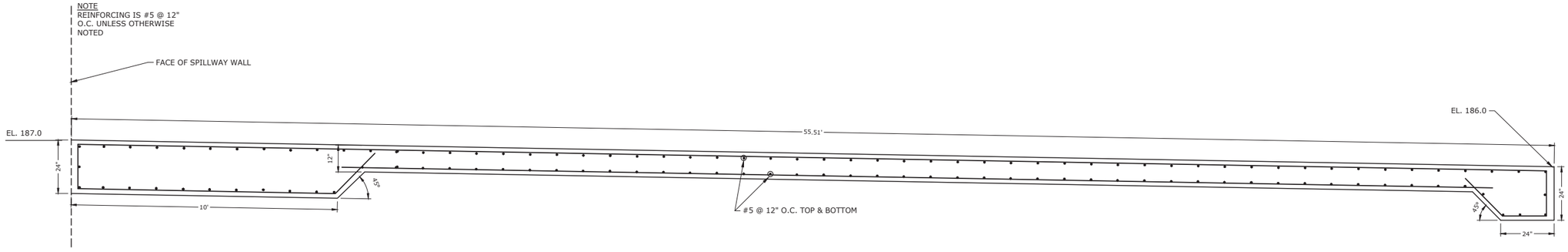
SPILLWAY WALL

SECTION A S2.00
SCALE: 1/2" = 1'



CUTOFF WALL

SECTION B S2.00
SCALE: 1/2" = 1'



LOWER SPILLWAY APRON

SECTION G S2.00
SCALE: 1/2" = 1'

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SPILLWAY WALL SECTIONS

SCALE: AS NOTED

S2.30

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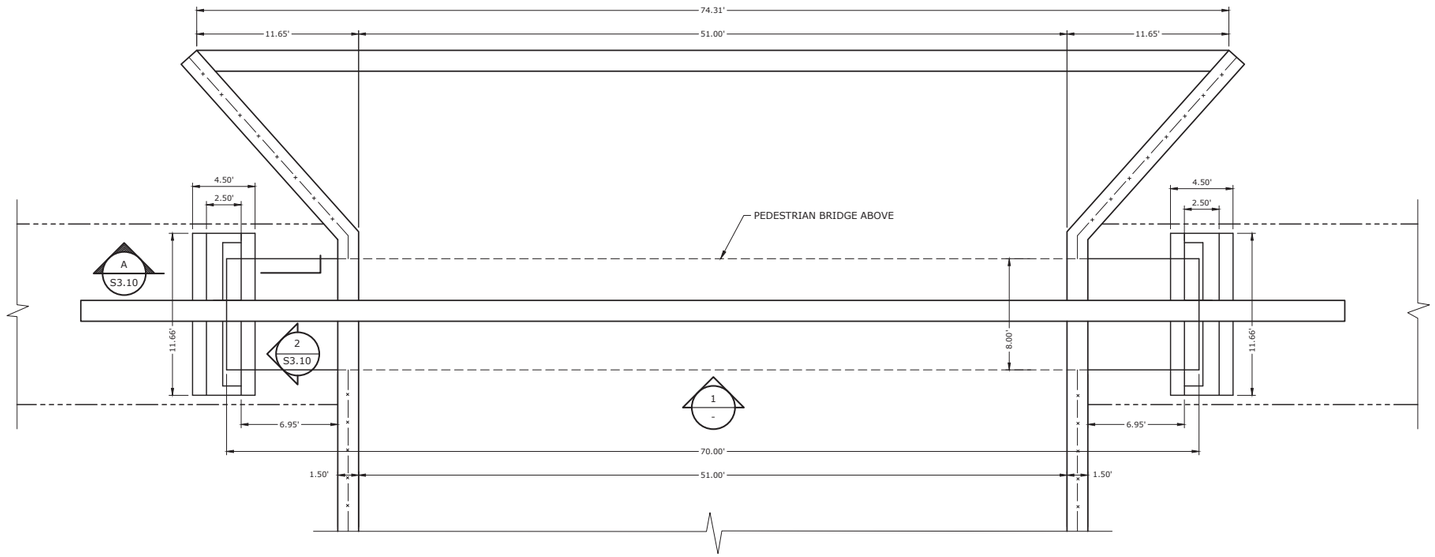
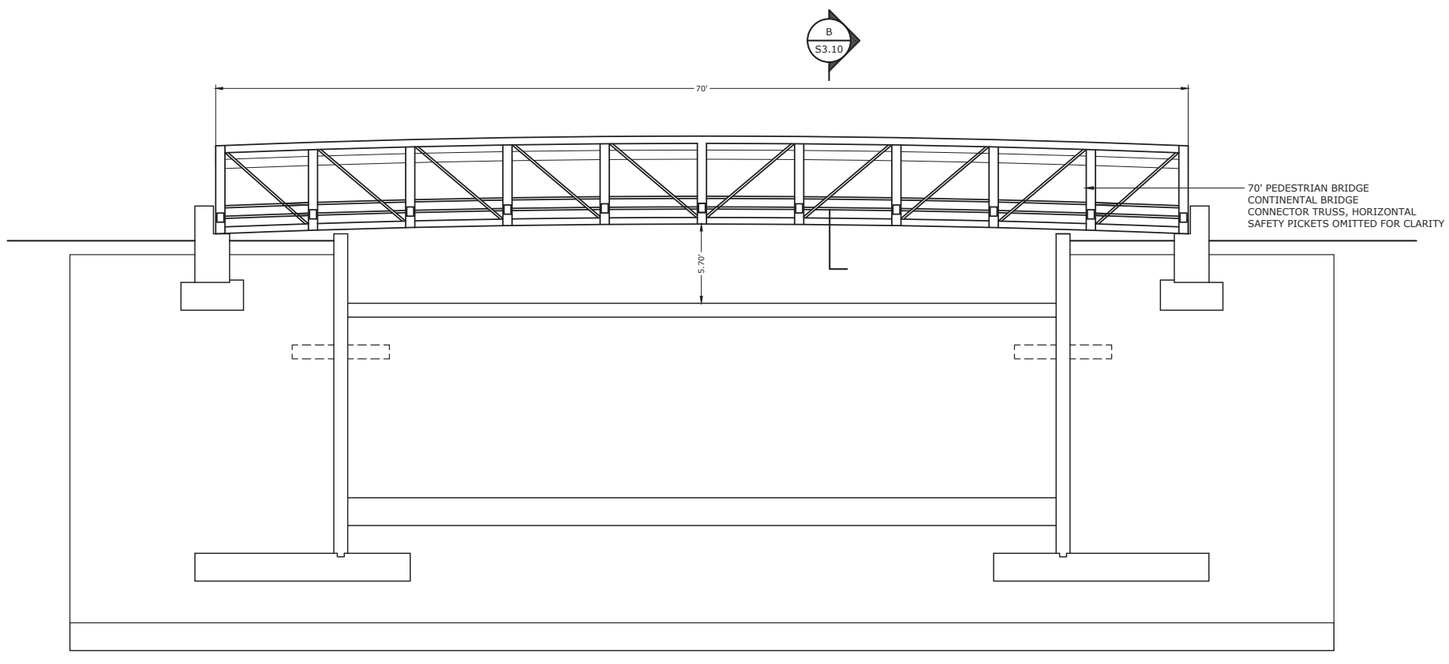


OVERFLOW STRUCTURE DETAILS - PLAN VIEW
SCALE: 1"=5'



PEDESTRIAN BRIDGE OVER SPILLWAY

ELEVATION 1 -
SCALE: 1" = 5'

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CHECKED:	JAC
APPROVED:	DH

PEDESTRIAN BRIDGE OVER SPILLWAY

SCALE: AS NOTED

S3.00

Last Saved: 7/30/2018
Plotted On:Sep 11, 2018-10:31am By: CanasJ
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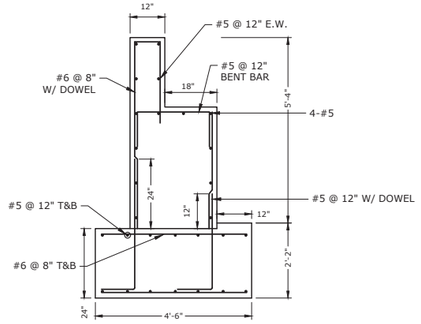
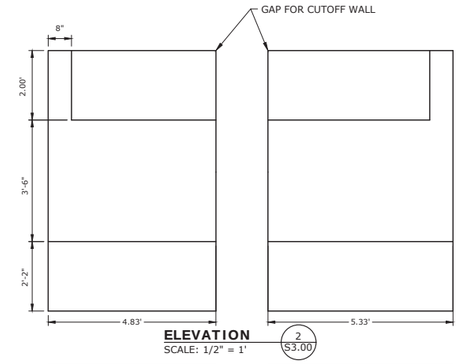
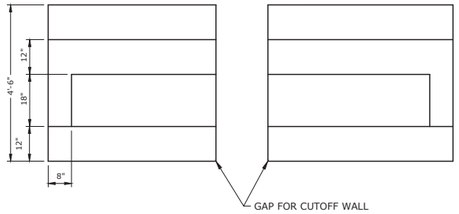


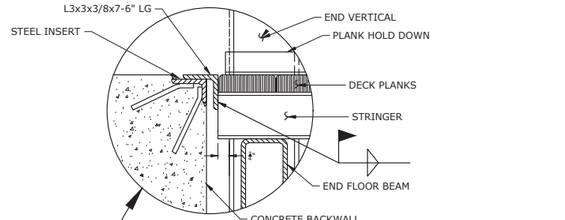
SECTION (A / S3.00)
SCALE: 1/2" = 1'

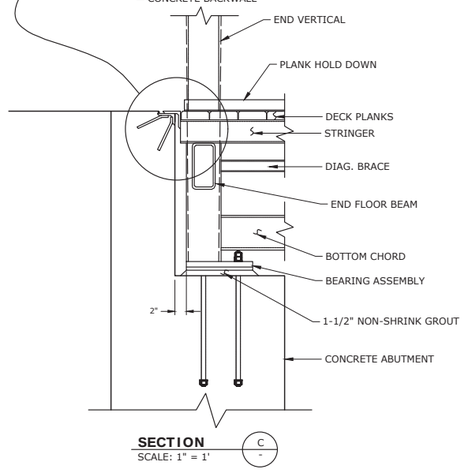


ELEVATION (2 / S3.00)
SCALE: 1/2" = 1'

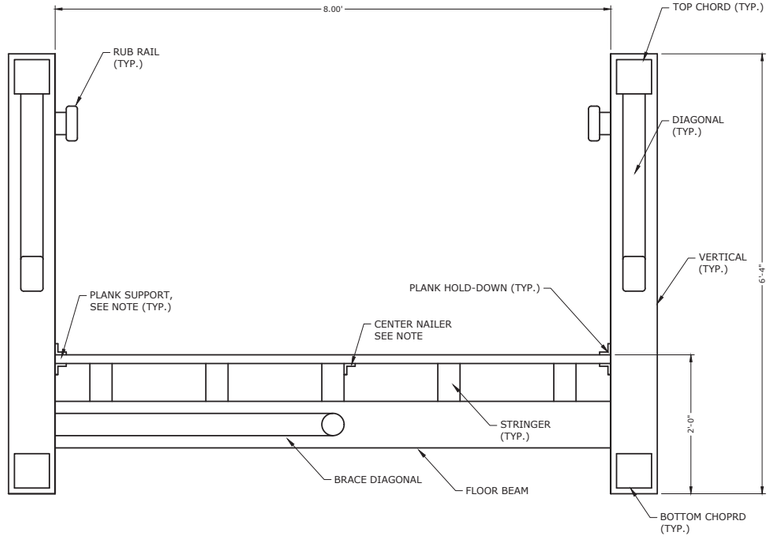


PLAN



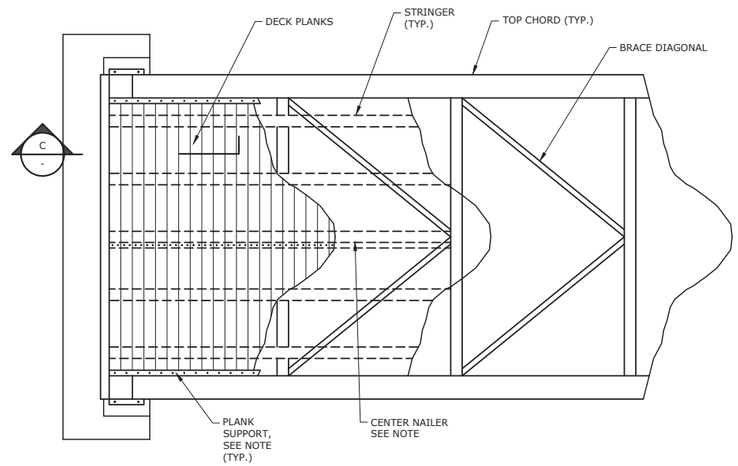


SECTION (C / -)
SCALE: 1" = 1'



NOTE
1. USE $\frac{3}{15}$" DIA. TORX NUTTON HEAD GR8 ACQ OLIVE DRAB PLATED SELF-TAPPING SCREWS FOR PLANK ATTACHMENT.
2. USE ONE SCREW PER PLANK AT EACH PLANK HOLD DOWN AND TWO SCREWS PER PLANK AT CENTER NAILER

SECTION (B / S3.00)
SCALE: 1" = 1'



NOTE
1. USE $\frac{3}{15}$" DIA. TORX NUTTON HEAD GR8 ACQ OLIVE DRAB PLATED SELF-TAPPING SCREWS FOR PLANK ATTACHMENT.
2. USE ONE SCREW PER PLANK AT EACH PLANK HOLD DOWN AND TWO SCREWS PER PLANK AT CENTER NAILER

BRIDGE PARTIAL PLAN
SCALE: 1/4" = 1'

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Elton Rogers Park Dam Reconstruction

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July 31, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
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CHECKED:	JAC
APPROVED:	DH

SPILLWAY BRIDGE SECTIONS AND DETAILS

SCALE: AS NOTED

S3.10

09/11/2018

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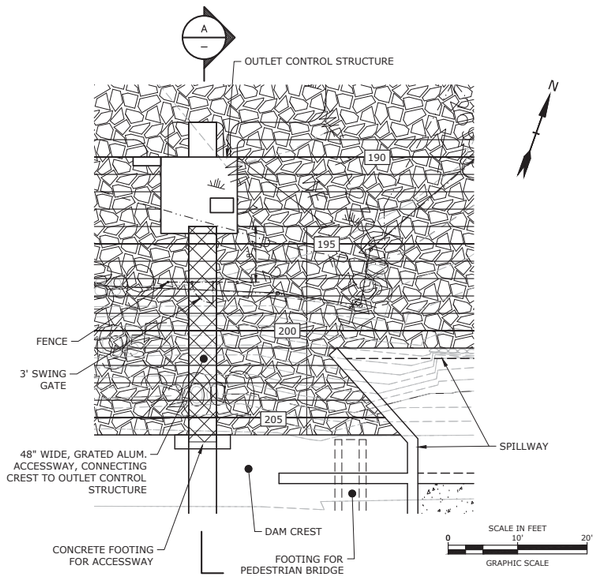
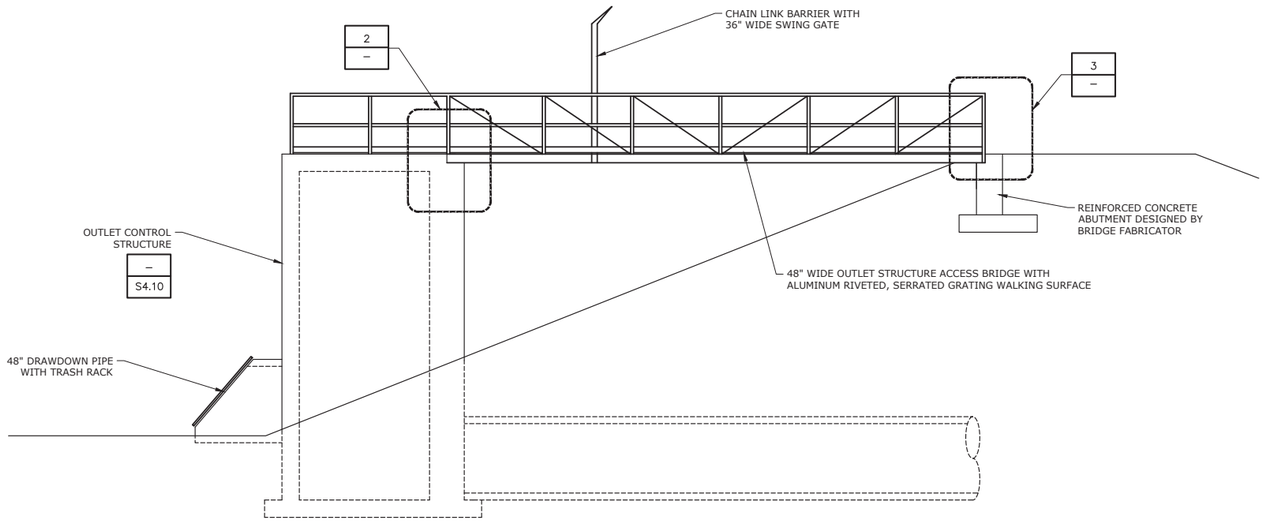
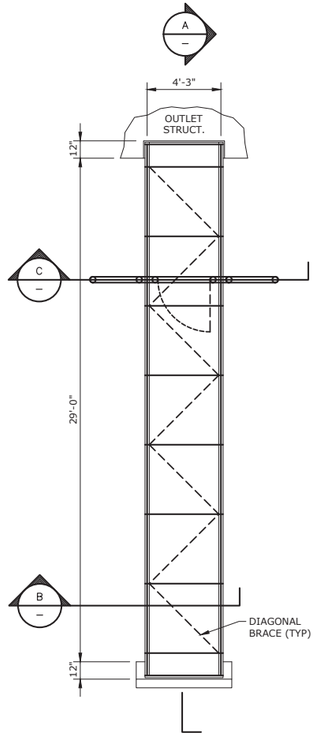


OUTLET STRUCTURE ACCESS BRIDGE ENLARGEMENT

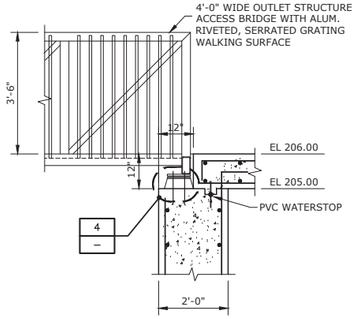
DETAIL 1 / –
1" = 10'



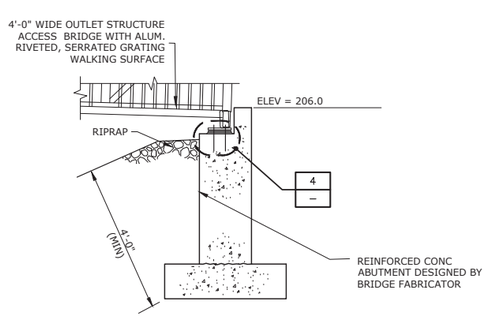
A / – CROSS SECTION AT OUTLET CONTROL ACCESS BRIDGE
SCALE: 1" = 4'



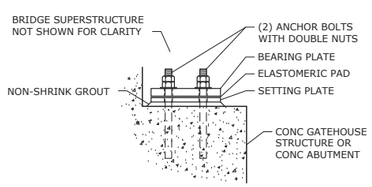
OUTLET STRUCTURE ACCESS BRIDGE
1/4"=1'-0"



DETAIL 2 / –
1/2"=1'-0"



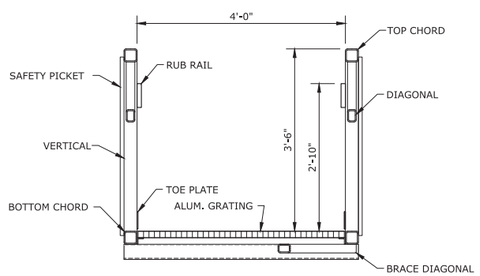
DETAIL 3 / –
1/2"=1'-0"



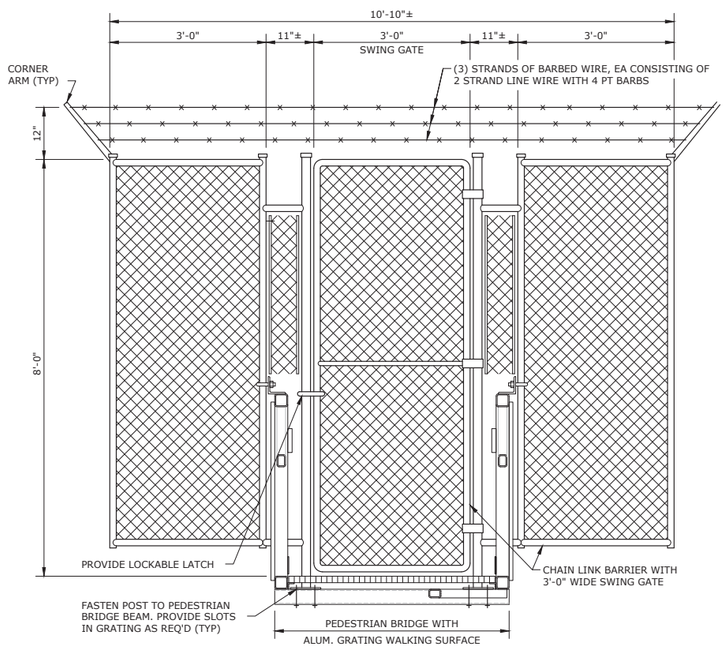
NOTE:
SETTING PLATE, ELASTOMERIC PAD, BEARING PLATE, AND ANCHOR BOLTS FURNISHED BY PEDESTRIAN BRIDGE MANUFACTURER.

OUTLET STRUCTURE ACCESS BRIDGE BEARING PLATE

DETAIL 4 / –
NO SCALE



B / – OUTLET STRUCTURE ACCESS BRIDGE SECTION
SCALE: 3/4" = 1'



C / – ACCESS GATE SECTION
SCALE: 3/4" = 1'

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OUTLET CONTROL STRUCTURE DETAILS

SCALE: AS NOTED

C4.00

09/11/2018

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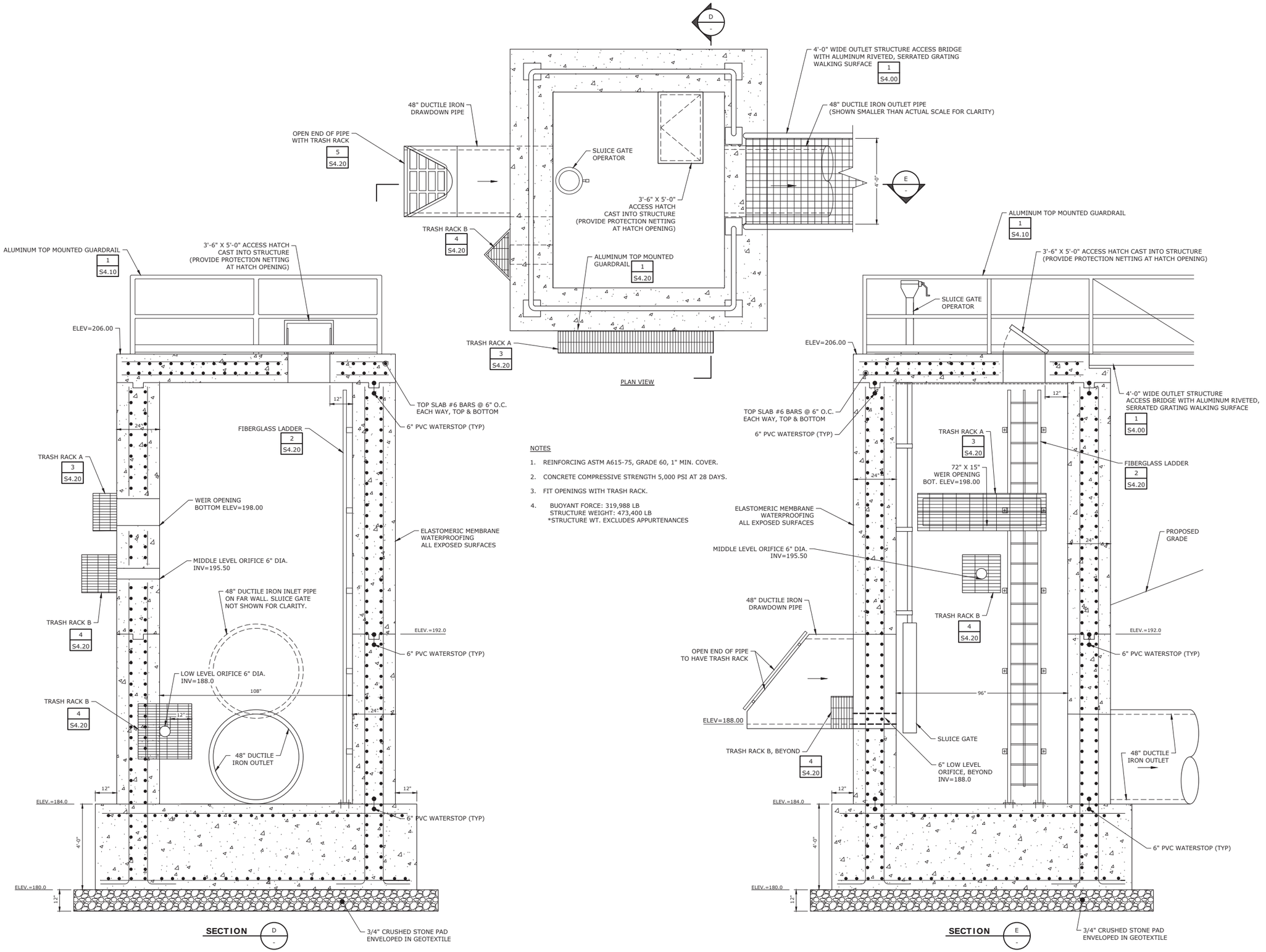

NOTES

1. REINFORCING ASTM A615-75, GRADE 60, 1" MIN. COVER.
2. CONCRETE COMPRESSIVE STRENGTH 5,000 PSI AT 28 DAYS.
3. FIT OPENINGS WITH TRASH RACK.
4. BUOYANT FORCE: 319,988 LB
   STRUCTURE WEIGHT: 473,400 LB
   *STRUCTURE WT. EXCLUDES APPURTENANCES

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S4.10

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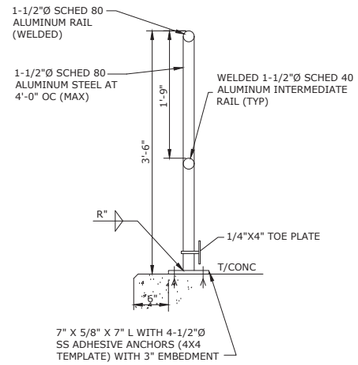
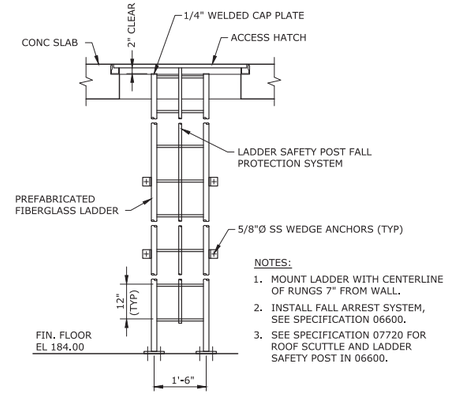
Layout: Sheet J:\B0694\Drawing\Sheet\Design\B0694-S-400-STRUC.dwg



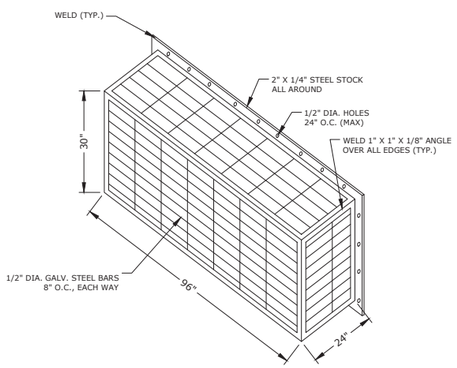
TOP MOUNTED GUARD RAIL DETAIL
NO SCALE

DETAIL 1 | C4.10

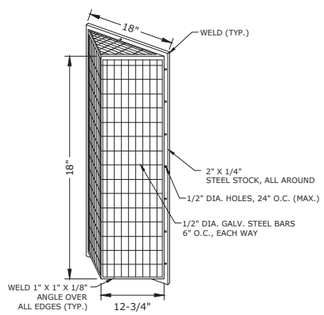


FIBERGLASS LADDER
NO SCALE

DETAIL 2 | C4.10



TRASH RACK A
NO SCALE



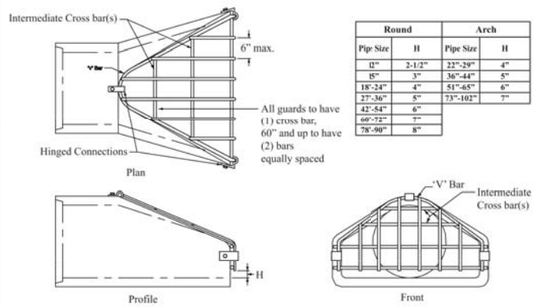
TRASH RACK B
NO SCALE

NOTES

1. TRASH RACK TO BE CENTERED OVER OPENING.
2. STEEL TO CONFORM TO ASTM A36.
3. ALL SURFACES TO BE COATED WITH ZRC COLD GALAVANIZING COMPOUND AFTER WELDING.
4. TRASH RACK TO BE FASTENED TO THE WALL WITH 1/2" MASONRY ANCHORS.
5. TRASH RACK SHALL BE REMOVABLE.

DETAIL 4 | C4.10

Trash Guard For Flared Ends



Round		Arch	
Pipe Size	H	Pipe Size	H
12"	2-1/2"	22"-29"	4"
15"	3"	36"-44"	5"
18"-24"	4"	51"-65"	6"
27"-36"	5"	73"-102"	7"
42"-54"	6"		
60"-72"	7"		
78"-90"	8"		

Hot dip galvanized per ASTM A123

Bar Sizes

Standard Design					Heavy Design				
	Pipe Size	Hole Dia. Required	Bolt Dia.	Bar Size		Pipe Size	Hole Dia. Required	Bolt Dia.	Bar Size
Round	12"-24"	3/4"	5/8"	5/8"	Round	12"-24"	3/4"	5/8"	3/4"
	27"-48"	7/8"	3/4"	3/4"		27"-48"	7/8"	3/4"	1"
	54"-90"	1-1/8"	1"	1"		54"-90"	1-1/8"	1"	1-1/4"
Arch	22"-29"	3/4"	5/8"	5/8"	Arch	22"-29"	3/4"	5/8"	3/4"
	36"-59"	7/8"	3/4"	3/4"		36"-59"	7/8"	3/4"	1"
	65"-102"	1-1/8"	1"	1"		65"-102"	1-1/8"	1"	1-1/4"
Bolt Lg. = Pipewall Thk. + 2-1/2"					Elliptical	14"x23"	3/4"	5/8"	3/4"
						19"x30"	3/4"	5/8"	3/4"
						24"x38"	7/8"	3/4"	3/4"
						29"x45"	7/8"	3/4"	3/4"
						34"x53"	7/8"	3/4"	3/4"
						38"x60"	7/8"	3/4"	3/4"
						43"x68"	1-1/8"	1"	1"
						48"x76"	1-1/8"	1"	1"
						53"x83"	1-1/8"	1"	1"

HAALA INDUSTRIES
1201 Hwy 4 South
Sleepy Eye, MN 56085
Ph: 507-794-5821
Fax: 507-794-5823
www.haala.com
Contact: Scott Haala
scott@haala.com
Ph: 507-794-5821 ext. 115
Cell: 507-920-9182

DETAIL 5 | C4.10

Tighe&Bond
www.tighebond.com
1000 Bridgeport Avenue
Suite 320
Shelton, CT 06484
(203) 712-1100

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

July 31, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-S-400-STRUC.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

OUTLET CONTROL STRUCTURE DETAILS

SCALE: AS NOTED

S4.20

09/11/2018

Last Saved: 8/9/2018
Plotted On: Sep 11, 2018 - 10:33am By: Canael
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file

OXBROOK FLOOD CONTROL STUDY

KASPER GROUP INC.
968 FAIRFIELD AVENUE
BRIDGEPORT, CT 06606

PRELIMINARY

April 30, 2001

CONTENTS

HYDROLOGIC CALCULATIONS FOR EXISTING CONDITIONS

HYDROLOGIC CALCULATIONS FOR UPSTREAM DRAINAGE IMPROVEMENTS

HYDRAULIC CALCULATIONS

I. INTRODUCTION

The intent of this flood control project is to implement improvements along Ox Brook to reduce the potential for flooding. This project will serve as a continuation to improvements already in place downstream for the Rooster River and the section of Ox Brook located west (downstream) of Lincoln Boulevard.

This office performed a study for the City of Bridgeport Flood and Erosion Control Board entitled Flood Control Study, Ox Brook, Bridgeport, Connecticut dated February, 1980. This study defined discharges resulting from storms of various frequencies and the extent of flooding under existing conditions. Improvements were evaluated which would relieve flooding in a manner consistent with existing and anticipated future development. The recommendations made in the study will be the basis of design and construction of the improvements for this flood control project.

II. EXISTING CONDITIONS

A. Purpose and Need

Review of published flood maps reveals approximately 225 residential structures are impacted by a flood of this magnitude. In addition to the main residences, approximately 160 additional structures (garages and sheds) and 2 commercial structures would be inundated during the flood.

The State of Connecticut Department of Economic and Community Development lists the median sale price of a home in the City of Bridgeport as $92,000 for the year of 1999. Using this value, an estimated $20,700,000.00 of real estate can be adversely impacted by Ox Brook floodwaters.

In addition to the financial implications of the Ox Brook flooding, a serious threat to life and safety is present. Several roads are flooded and impassable during flooding events. Floodwaters would negate several emergency access routes leading to an increase in response time. In addition, floodwaters flowing over the roadways are a significant threat to people and vehicles that underestimate the danger and attempt to cross.

B. Study Area

Ox Brook is located in the northwesterly portion of the City of Bridgeport as shown in Figure 1. The project limits for this study are shown in Figure 2. The area includes the watershed for the Ox Brook extending from just south of the Merritt Parkway (Rte. 15) to Lincoln Avenue. The watershed is approximately 1.08 square miles in size and consists primarily of single and multi-family residential developments on quarter acre lots with minor areas of commercial development located along Main Street and Madison Avenue. The Ox Brook Flood Control project has its southerly (downstream) extent at Lincoln Boulevard where it meets improvements already in place and constructed as part of the Rooster River Flood Control Project. A diversion chamber is located within Lincoln Boulevard to which the improvements

proposed in this study will be connected. A plan and cross-section of this chamber is included as Figures 3a and 3b.

Due to intense development and encroachment on the brook occurring over the years, the area has compiled a long history of flooding. Significant additional development in this area is unlikely due to the lack of available land. Any future development would be on such a small scale that the effect on the watershed would be negligible.

C. Existing Channel

Ox Brook travels through the western portion of the City of Bridgeport from the Trumbull townline in the north to its confluence with the Rooster River near Long Island Sound. The total reach within the city is between 14,000 and 15,000 feet and the brook travels through a variety of environs and channel sections throughout its run. A more thorough discussion of the brook and its characteristics, beginning at its downstream extent follows:

1. As mentioned previously, the Ox Brook is a tributary to the Rooster River. The confluence of the two is located in the vicinity of Hughes Avenue and Laurel Avenue. Prior to this, the brook flows through a diversion chamber located in Lincoln Boulevard. The chamber contains a 30-inch pipe that allows dry weather flows to continue in the Ox Brook channel, while excessive flows are diverted via an overflow weir to a 108-inch concrete pipe flowing to the Rooster River. Schematic diagrams of the chamber are included as Figures 3 and 4.

2. Northward from Lincoln Boulevard to Madison Avenue, the brook flows behind residential houses in an open channel. Side slopes consist of a combination of vertical concrete retaining walls and natural side slopes. The channel width varies from 4 to 15 feet. Ox Brook flows under several garages within this reach and just prior to crossing Madison Terrace; it flows under a commercial building.

3. North of Madison Terrace, channel flow is maintained with the exception of street crossings. In this reach the brook flows through the rear yard of several residences.

4. The brook is contained in a 3.5-foot wide concrete box culvert from Harlem Avenue to Amsterdam Avenue. The depth of the culvert varies from 3.5 feet to 7.4 feet. Channel flow resumes on the south side of Fairview Avenue.

5. Between Fairview Avenue and Savoy Street, the brook alternates between channel and pipe flow. The channels are predominately contained within concrete walls with an approximate width of 2 feet and a depth varying from 2.3 feet to 5 feet. Pipe sizes range from 42-inches to 72-inches. Larger pipe diameters are located upstream of smaller ones, a practice going against hydraulic engineering convention.

6. Ox Brook flows through a natural channel between Savoy Street and Thorme Street with several short areas of stone and concrete walls up to Rocton Avenue. The channel is approximately 3 to 4 feet deep and travels through a somewhat

wooded area with various sections containing randomly placed stone and stone wall side slopes. There are several bends in the brook's alignment through this reach.

7. North of Thorme Street the brook remains channeled through yard areas alternating with street culvert crossings up to Stoehrs Place. The 42" pipe under Burnsford Avenue acts as a control for the flow downstream channel even though this reduces frequency flooding downstream it is the cause for flooding upstream of Burnsford Avenue. The channel in this reach is very silted due to street drainage. The brook is piped between Stoehrs Place and Lourmel Street with the exception of a short channel section next to Glendale Avenue. Pipe sizes range from 30-inch to 48-inch.

III. HYDRAULICS

A detailed review of the hydrologic and hydraulic data from the 1980 study was performed and compared to present conditions. This data was supplemented with updated information as required in order to perform the revised analysis.

Kasper Group, Inc. (KGI) retained Leonard Jackson Associates (LJA) to provide hydrologic and hydraulic consulting services for the project. LJA reviewed supplemented data provided by KGI to determine the existing hydrology within the Ox Brook study area. The Army Corps of Engineers HEC-1 computer model was employed in the analysis. The study area was divided into twenty separate sub-areas to more accurately represent the contribution of tributary drainage systems within the watershed. The sub-areas are shown in Figure 4.

Runoff hydrographs were developed for each sub-area for the 10, 25, 50, and 100-year 24-hour duration design storms. Hydrographs were developed using an SCS Type III rainfall distribution and the SCS dimensionless hydrograph method within HEC-1. Times of concentration were computed form each sub-area using SCS methodology and converted to the "SCS lag" time for input into the model. Curve numbers were computed based on soil types, land use data obtained from the City of Bridgeport zoning maps, and field observations. A summary of the curve numbers is included as Table 1.

The HEC-1 computer program was used to generate, lag and combine hydrographs as shown in Figure 5. In addition, the routing affect of the Burnsford Avenue culvert was modeled using the Modified Puls Routine. Computed flows for the 10, 25, 50, and 100-year design storms are presented in Table 2.

Under current conditions the culvert beneath Burnsford Avenue plays a significant role in the hydraulics of the Ox Brook. The brook flows under the road through a 42-inch pipe. The elevation of the road crown, approximately 20 feet above the invert of the pipe, effectively makes Bunsford Avenue a dam during high-flow events.

The culvert beneath Burnsford Avenue must be replaced in order to alleviate flood conditions upstream of it. The improvement in upstream conditions by removal of the damming effect of the road will, unfortunately, merely shift the worst of the flooding farther downstream. Floodwaters at various crossroads are presented in Table 2. The table shows floodwater

quantities for both existing conditions and those that would exist if an adequately sized culvert were to be installed in Burnsford Avenue. Examination of the table reveals that in a 100-year storm event, flood waters reaching Lincoln Avenue will increase from 1293 cubic feet per second (cfs) to 1937 cfs, a net increase of 644 cfs. The flood control structure located in Lincoln Avenue has a maximum capacity of 1000 cfs, or merely 52% of the anticipated flow.

V. PROPOSED IMPROVEMENTS

A. Available Alternates

Three options were identified pertaining to the Ox Brook Flood Control Study. The first alternative examined was a "No Action" alternative. The routine flooding of the area coupled with its threat to the life, safety, and economic well being of the residents in the area make this alternative unacceptable.

The remaining alternatives explore improvements to the channel and routing of water at the downstream limit of the study area. Improvements to Ox Brook can be divided into two segments, those upstream of the existing diversion and those downstream of it. The available options for improvements upstream of the diversion chamber are somewhat limited by hydraulics and the intense development in the area. Options are limited to conduit size, type and location. These are areas best explored and more thoroughly evaluated during the final design phase of the project.

Two options were evaluated for the reach south of the diversion chamber. These options are shown in Figure 5. The first option explored included piping of the Ox Brook from Lincoln Boulevard westward within Capitol Avenue to Laurel Avenue then proceeding southward to discharge into the Rooster River. This option would involve installation of approximately 5500 linear feet of conduit within a developed street. In addition, reconstruction of the diversion chamber in Lincoln Boulevard would be required. The second option considered piping flow through Bronx Avenue to a retention area to be constructed in Shvihra Park. This option involves installation of approximately 3500 feet of pipe and would not require the reconstruction of the diversion chamber. These two options are shown in Figure 5.

VI. RECOMMENDED IMPROVEMENTS

Options to adequately address the flooding of Ox Brook within the confines of the watershed are limited, costly and would require unacceptable disruptions of residences and businesses in the area to implement.

The limited capacity of the existing diversion chamber in Lincoln Boulevard prohibits simple upgrading of pipe, channel and culvert sizes throughout the project area. As previously discussed, improvements that limit flooding and allow free flow to Lincoln Boulevard will result in nearly 700 cfs of excessive flow to the diversion chamber. Alternates were explored which would eliminate flooding in the area for the design storm and yet, not result in flows exceeding the capacity of the diversion chamber. Schemes developed under these criteria would solve the flooding problem and not require excessive and expensive rework of recently completed flood control projects downstream from the diversion chamber in Lincoln Boulevard.

A regional approach was adopted to economically address the flooding associated with the Ox Brook. The potential for attenuation of floodwaters in both the Ox Brook and the Island Brook drainage basins was explored. Methods and quantities of water transfer between the two were examined to establish design criteria that would eliminate flooding in the Ox Brook channel without shifting the flooding to other parts of the City.

A schematic plan of the proposed design is included as Figure 6. Rogers Park, a 90-acre open space is located in the upper reaches of the Ox Brook basin. The park is currently undeveloped and represents a significant storage potential. A dam is needed in order to utilize the full potential.

Construction of the dam and outlet structure coupled with replacement of the culvert under Burnsford Avenue will improve conditions in the channel but will cause flooding in the vicinity of Lincoln Boulevard due to the limited capacity of the diversion chamber and conduit downstream of it. Peak flows calculated at the chamber with the above listed improvements in place were 1676 cfs, or 676 cfs greater than the capacity of the chamber.

The dam proposed for Rogers Park will have greater storage capacity than can be utilized by the Ox Brook. A connection to the Island Brook is recommended to fully utilize this capacity. A total of 200 cfs can be diverted from Island Brook to Rogers Park.

In order to maintain a maximum flow rate of 1000 cfs at the diversion chamber, an additional transfer between the basins is proposed for Fairview Avenue. A flow of 676 cfs will be diverted from the Ox Brook back to the Island Brook basin at this location. Additional storage is proposed for Shvihra Park with an outflow back to Island Brook of 20 cfs.

Additional improvements to the channel are proposed for the various reaches of the Ox Brook. These improvements are designed based upon the flows resulting from construction of the two detention areas and transfer of stormwaters between the basins. The improvements are shown in Figure 10, attached to this report.

Phasing of the improvements is critical to ensure maintenance of adequate capacity within the two affected waterways. Figure 7 reflects a proposed plan where the flood control project is divided into six phases. The phases are proposed to allow improvements to the channel without creating additional flooding problems in downstream reaches. The phasing of the project is detailed below:

A. Phase One

The first phase of the project consists of construction of a series of berms in Roger's Park. Outlet control will consist of an 18-inch pipe discharging to the Ox Brook at Lourmel Street. This phase will reduce the peak flow in the Ox Brook and, therefore, the frequency of flooding events.

B. Phase Two

The second phase of flood improvements to the Ox Brook consists of three items. The first item is construction of a detention pond in the Svihra area.

Floodwaters will be outlet through an 18-inch pipe to the Island Brook. The second item consists of construction of construction of 3850 LF of 9' x5' box culvert in Wayne Street, Bronx Avenue, and Hunting Street. This conduit will eventually discharge into the Svihra detention pond. The final construction included in this phase consists of rerouting of Ox Brook from a point approximately 100 feet south of Rocton Avenue. The brook will be rerouted along Amsterdam Avenue, through several backyards, and Wayne Street to Quince Street using a 12' x5' box culvert. A 60-inch pipe beneath Quince Street will discharge the maximum manageable flow back into the existing Ox Brook channel. The existing channel in the affected reach will remain in place to convey local runoff.

Construction of this phase will reduce localized flooding and make upstream improvements possible without adverse impacts elsewhere.

C. Phase Three

The third proposed phase of the flood control project includes improvement of the existing channel and culverts under crossing streets from Lincoln Boulevard to Quince Street. The channel cross-section will be improved to a trapezoidal or rectangular section.

Completion of this phase will reduce local flooding and allow for additional upstream improvements without adverse impacts.

D. Phase Four

The fourth phase of the proposed project consists of upgrades to the Ox Brook channel from Rocton Avenue to Burnsford Avenue. The culvert beneath Burnsford Avenue would be replaced in this phase. Channel improvements would consist of construction of either a rectangular or trapezoidal cross-section.

This fourth phase of construction will be a continuation of the improvements implemented in the second and third phase. This phase will allow for further improvements upstream and remove the constriction at Burnsford Avenue.

E. Phase Five

The fifth phase of construction is further upgrades to the existing Ox Brook channel. These improvements, which would also include the installation of a culvert, would occur between Burnsford Avenue and Lourmel Street.

Construction of this phase will decrease local flooding and complete the improvements to the channel so the final phase can be implemented.

F. Phase Six

The final phase of construction for the Ox Brook Flood Control Project will consists of the installation of approximately 650 LF of 10' x 3' box culvert in Old Town Road. This culvert will divert approximately 200 cfs from the Island Brook to the detention area in Roger's Park, constructed in Phase 1.

Completion of this phase will enable transfer of floodwaters from Island Brook to the Ox Brook at this location and a transfer back to Island Brook from Ox Brook through the detention area at Svihra Park. With the completion of this phase, both streams will adequately convey waters resulting from a 100-year storm event.

VII. ESTIMATED COSTS

The estimated construction costs for the Ox Brook Flood Control Project were calculated. Several references were utilized in the preparation of this estimate. Sources that were consulted included the Means book for construction costs, Connecticut Department of Transportation, "Weighted Unit Prices ", pricing from applicable suppliers and Kasper Group, Inc.'s knowledge and data base regarding local bidding practices.

Estimated costs are included in Table 3. No allowance has been made to project the costs through an anticipated project schedule. A total project cost of $24.2 million has been derived.

OXBROOK FLOOD CONTROL PROJECT
BRIDGEPORT, CONNECTICUT
TABLE 1
SUMMARY OF SUBBASIN CHARACTERISTICS

Prep. By: RK

SUBAREA	BASIN AREA		CURVE NUMBER	TIME OF CONC. (hours)	S.C.S. LAG (hours)
	(acres)	(sq.mi.)			
1	33.3	0.0520	78	0.49	0.29
2	39.3	0.0614	71	0.69	0.41
3	31.4	0.0491	67	0.56	0.33
4	8.0	0.0125	78	0.39	0.23
5	28.9	0.0452	79	0.51	0.30
6	70.0	0.1094	80	0.30	0.18
7	42.2	0.0659	80	0.27	0.16
8	38.1	0.0595	85	0.79	0.47
9	49.4	0.0772	83	0.74	0.44
10	27.3	0.0427	86	0.36	0.22
11	36.0	0.0563	78	0.56	0.33
12	30.3	0.0473	77	0.42	0.25
13	18.6	0.0291	77	0.49	0.30
14	17.7	0.0277	79	0.29	0.17
15	51.2	0.0800	79	0.33	0.20
16	28.9	0.0452	86	0.34	0.20
17	59.5	0.0930	82	0.56	0.33
18	14.9	0.0233	85	0.68	0.41
19	13.9	0.0217	79	0.36	0.22
20	51.6	0.0806	84	0.45	0.27

OX BROOK FLOOD CONTROL PROJECT
PEAK RUNOFF RATES
BRIDGEPORT, CT
Table 2

Prep. By: RK

Sub Area	Street name	EXISTING FLOWS				PROP.ESTIMATED FLOWS				
		10	25	50	100	10	25	50	100	
	Rogers Park					-144	-186	-213	-261	<--Roger's Park
1+2+3+4	Luther St.	155	200	229	281	11	14	16	20	storage
	Cambridge St.									
	Oxford St.									
	Perrontte St.									
5	Lourmel St.	204	261	298	366	60	75	85	105	
	Marcel St.									
	Woodside Ave.									
	Woodmont Ave.									
	Glendale Ave.									
	Englewood Ave.									
6	Jewett Ave	335	424	481	586	191	238	268	325	
7	Golden Rod Ave.	428	539	610	739					
	Ruth St.									
8	Stoehrs Pl.	484	608	686	829					
	Merritt St.									
42" pipe	Burnsford Ave.	168	175	179	185	340	422	473	568	<--Full capacity
9+10	Birmingham St.									pipe
	Clarke St.									
	Thorme St.									
12	Keeler Ave.	278	312	332	369	450	559	626	752	
	Terry Pl.									
13	Rocton Ave.	426	495	539	618	598	742	833	1001	
14	Savoy St.	454	531	579	668					
11+15	Amsterdam Ave.	547	646	709	822	719	893	1003	1205	
	Westfield Ave.					-413	-508	-568	-676	<--To Svihra are
	Fairview Ave.									detention
	Tremont Ave.									
	Amsterdam Ave.									
	Harlem Ave.	635	778	867	1027					
	Quince St.									
16+17	Madison Ave.	719	862	951	1111	478	601	678	818	
	Sidney St.									
	Arlington St.									
	Madison Ter.									
18+19+20	Lincoln Ave.	835	1001	1106	1293					
	Lincoln Blvd.					594	740	833	1000	

OX BROOK FLOOD CONTROL PROJECT
BRIDGEPORT, CT
TABLE 3
COST ESTIMATE OF RECOMMENDED IMPROVEMENTS
APRIL 24, 2001

Prep. By: RK

			PHASE 1		PHASE 2		PHASE 3		PHASE 4		PHASE 5		PHASE 6		TOTAL	
DESCRIPTION	UNIT	PRICE	QUAN	PRICE	QUAN	PRICE	QUAN	PRICE	QUAN	PRICE	QUAN	PRICE	QUAN	PRICE	QUAN	PRICE
ROGERS PARK																
REMOVAL OF EXIST. BERM	CY	$17	11000	$181,500		$0		$0		$0		$0		$0	11000	$181,500
NEW BERM	CY	$28	30000	$825,000		$0		$0		$0		$0		$0	30000	$825,000
RIPRAP	SY	$55	3000	$165,000		$0		$0		$0		$0		$0	3000	$165,000
18" RCP ROGERS PARK TO LOURMEL ST	LF	$154	2700	$415,800		$0		$0		$0		$0		$0	2700	$415,800
48" RCP - ON STREET	LF	$578		$0		$0		$0		$0	150	$86,625		$0	150	$86,625
54" RCP - BACK YARDS	LF	$413		$0		$0		$0		$0	1300	$536,250		$0	1300	$536,250
72" RCP - BACK YARDS	LF	$440		$0		$0		$0		$0	700	$308,000		$0	700	$308,000
84" RCP - BACK YARDS	LF	$605		$0		$0		$0		$0	1100	$665,500		$0	1100	$665,500
96" RCP - ST. CROSSINGS W/HEADWALLS	LF	$1,540		$0		$0		$0	385	$592,900	60	$92,400		$0	445	$685,300
108" RCP - ST. CROSSINGS W/HEADWALLS	LF	$1,650		$0		$0		$0	180	$297,000		$0		$0	180	$297,000
9X5' BOX - BRONX AVE, MAIN ST, SVIHRA AREA	LF	$1,650		$0	3850	$6,352,500		$0		$0		$0		$0	3850	$6,352,500
10X3' BOX - ISLAND BROOK TO ROGERS PARK	LF	$1,100		$0		$0		$0		$0		$0	650	$715,000	650	$715,000
10X6' BOX - ON STREET	LF	$1,348		$0		$0	335	$451,413		$0		$0		$0	335	$451,413
12X5' BOX - ON STREET	LF	$1,430		$0	1000	$1,430,000		$0		$0		$0		$0	1000	$1,430,000
12X5' BOX - BACKYARD	LF	$990		$0	1000	$990,000		$0		$0		$0		$0	1000	$990,000
RIPRAP TRAPEZOIDAL CHANNEL	LF	$385		$0		$0	150	$57,750	1350	$519,750	300	$115,500		$0	1800	$693,000
VERTICAL WALL CONCRETE CHANNEL	LF	$660		$0		$0	2450	$1,617,000		$0		$0		$0	2450	$1,617,000
SVIHRA AREA EXCAVATION, GRADING, BERM	LS	$880,000		$0	1	$880,000		$0		$0		$0		$0	1	$880,000
REMOVAL AND DISPOSAL OF HAZARDOUS MATERIAL	LS		1	$91,779	1	$558,113	1	$122,936	1	$81,507	1	$104,324	1	$41,342	1	$1,000,000
SUB TOTAL				$1,679,079		##########		$2,249,098		$1,491,157		$1,908,599		$756,342		$18,294,888
MOBILIZATION & DISMANTLING, GENERAL	LS		1	$251,862	1	$1,531,592	1	$337,365	1	$223,674	1	$286,290	1	$113,451	1	$2,744,233
SUB TOTAL				$1,930,940		##########		$2,586,463		$1,714,830		$2,194,889		$869,793		$21,039,121
CONSTRUCTION CONTINGENCY 15%				$289,641		$1,761,331		$387,969		$257,225		$329,233		$130,469		$3,155,868
TOTAL				$2,220,581		##########		$2,974,433		$1,972,055		$2,524,122		$1,000,262		$24,194,989

NOTES:

1. Above costs do not include costs involved with easements and acquisitions, engineering services and government administration costs.

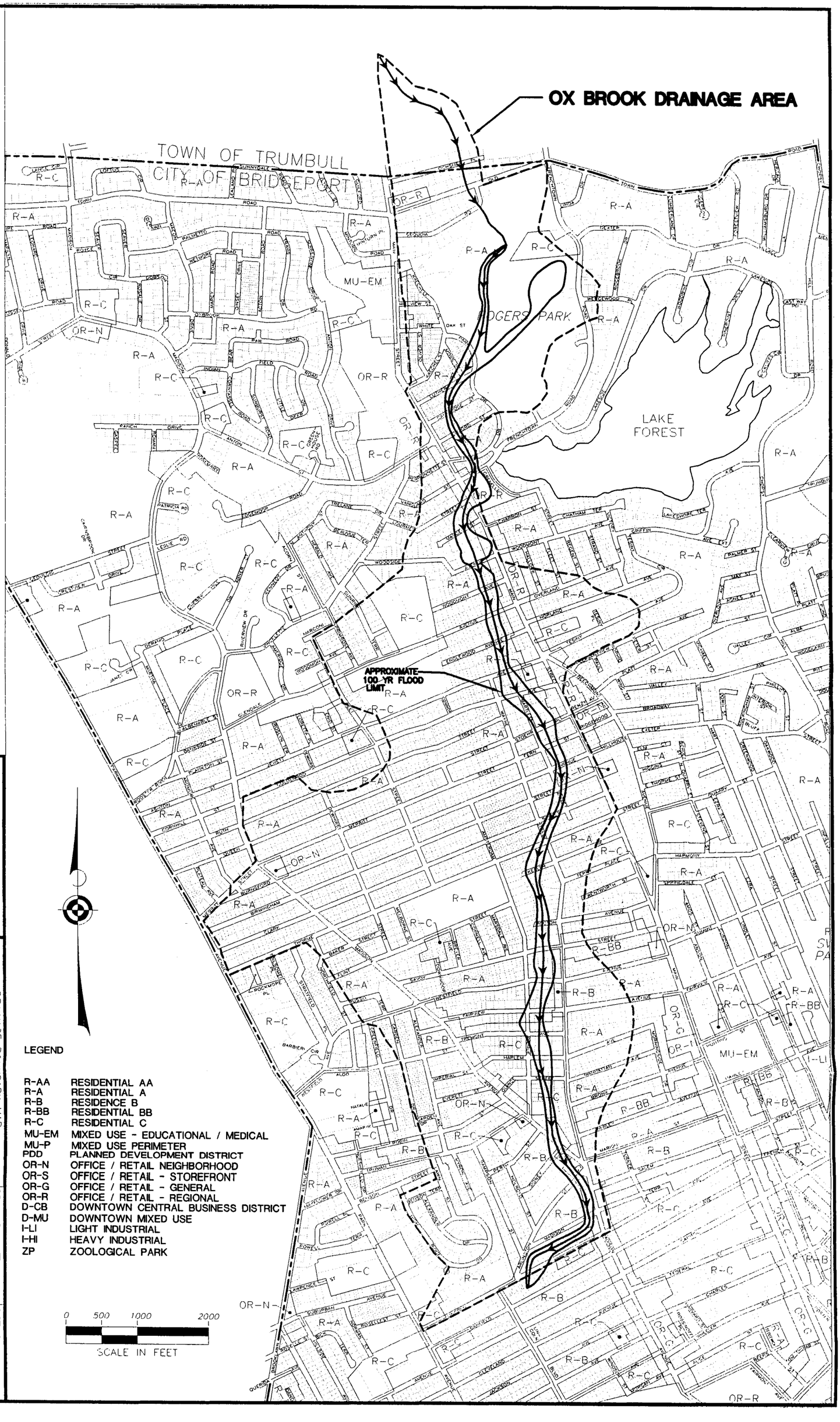
2. Unit prices for piping & box culvert include paving, rock excavation, curb & sidewalk restoration, misc. costs



KREPER GROUP INC.
Engineers • Architects • Surveyors

OX BROOK
BRIDGEPORT, CONNECTICUT

DRAWN BY: EWL	SHEET NO.
CHECKED BY: RLP	
CAD FILE: FIG-1.DWG	FIG-1
DESIGN BY: RK	
SCALE: N.T.S.	
DATE: 04-30-01	



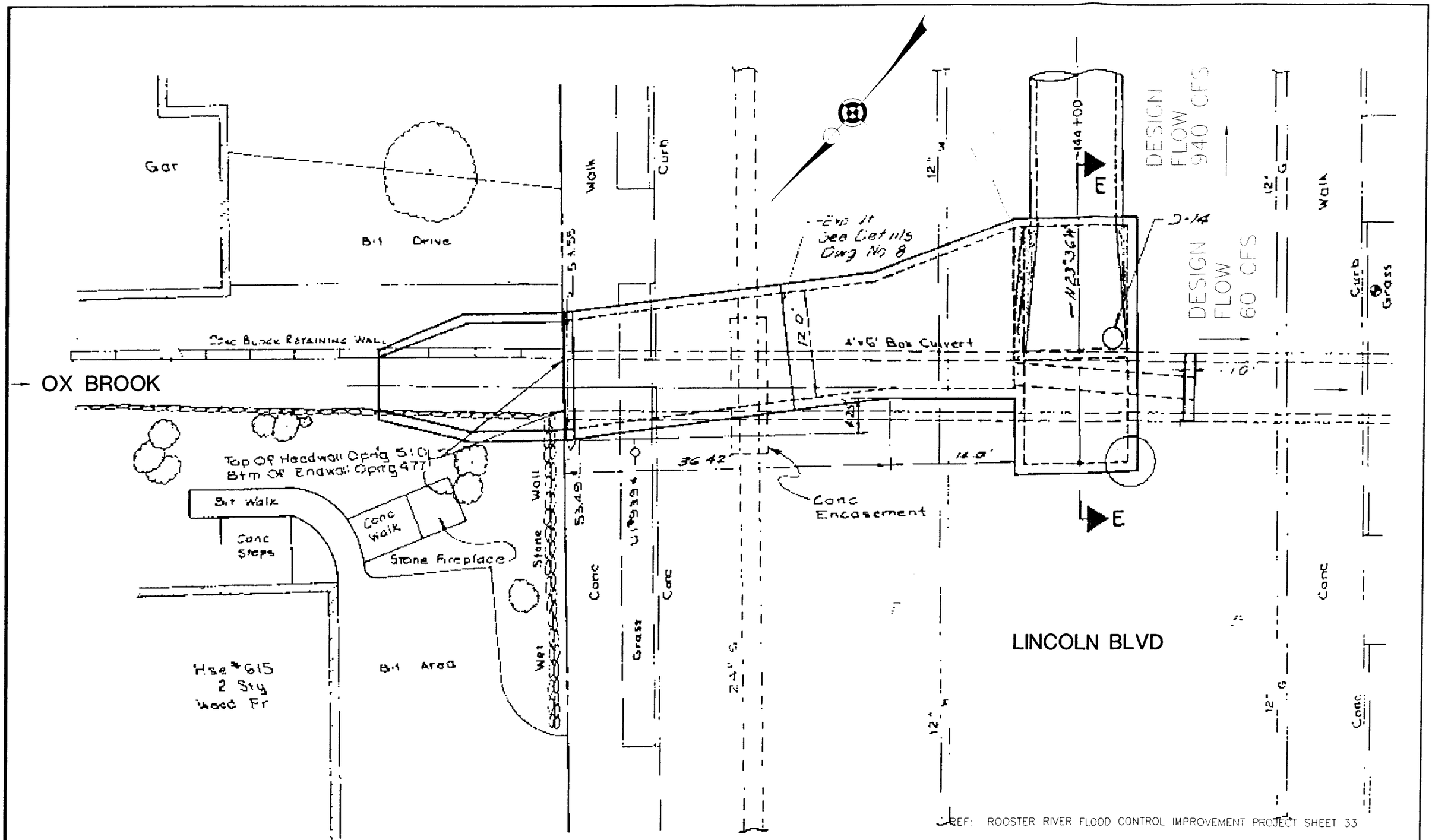
KASPER GROUP INC.
Engineers • Architects • Surveyors
80 YEARS OF EXCELLENCE

DRAINAGE BOUNDARY MAP
OX BROOK FLOOD CONTROL PROJECT
BRIDGEPORT, CONNECTICUT
PREPARED FOR
THE CITY OF BRIDGEPORT

DRAWN BY: LTT
CHECKED BY: RK
CAD FILE: H:/6811/DRAINAGEAEA
PROJECT NO: 6811
SCALE: 1"=1000'
DATE: APRIL 2001

SHEET NO

FIG. 2



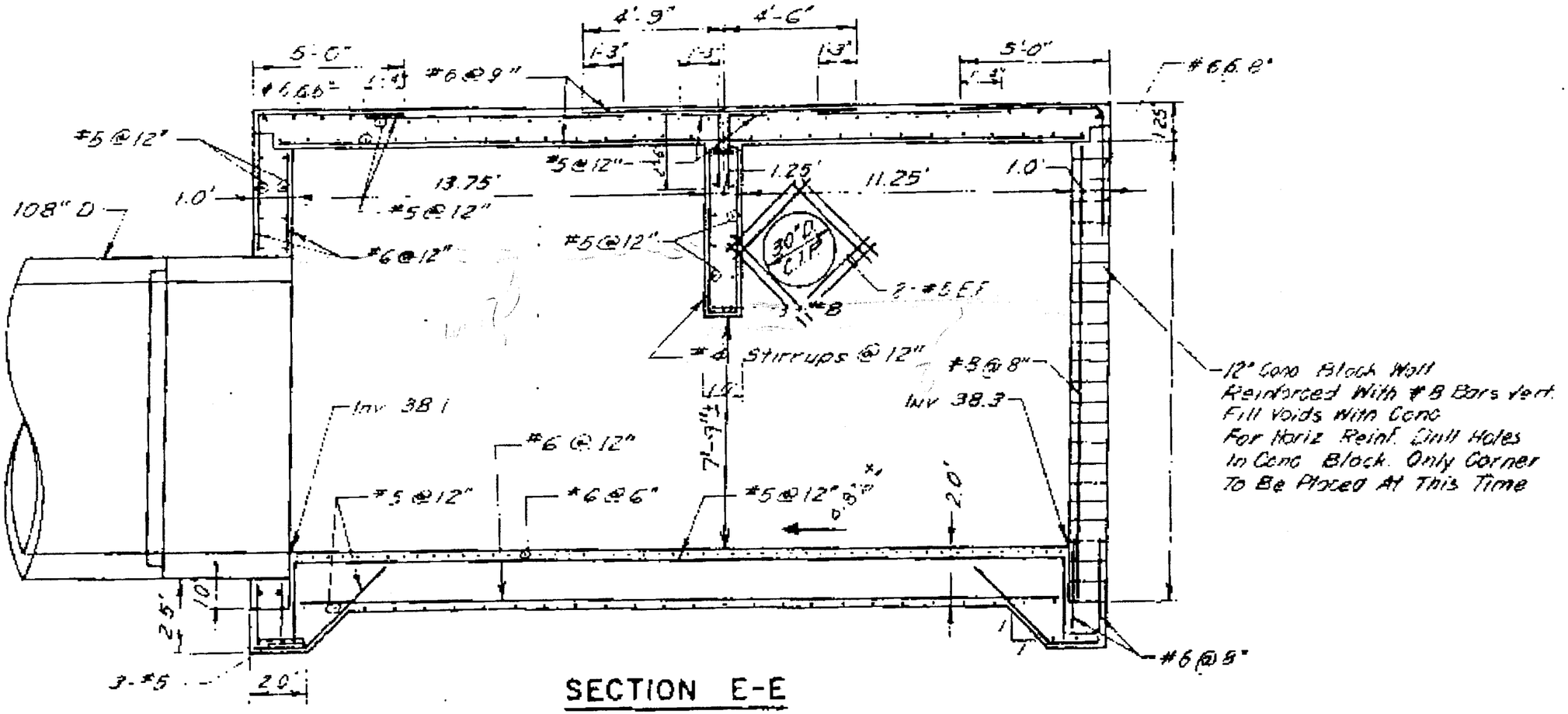
REF: ROOSTER RIVER FLOOD CONTROL IMPROVEMENT PROJECT SHEET 33

WORK TO BE PERFORMED UNDER OX BROOK FLOOD CONTROL PROJECT

WORK PERFORMED UNDER ROOSTER RIVER FLOOD CONTROL PROJECT

KASPER GROUP INC.
Engineers • Architects • Surveyors

EXIST DVERSION STRUCTURE PLAN	DRAWN BY: LTT	SHEET NO.
OX BROOK FLOOD CONTROL PROJECT	CHECKED BY: RK	FIG. 3a
BRIDGEPORT, CONNECTICUT	CAD FILE: H/6811/DETAIL1	
PREPARED FOR	PROJECT NO: 6811	
THE CITY OF BRIDGEPORT	SCALE: 1"=10'	
	DATE: APRIL 2001	



SECTION E-E

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

REF: ROOSTER RIVER FLOOD CONTROL IMPROVEMENT PROJECT SHEET 33

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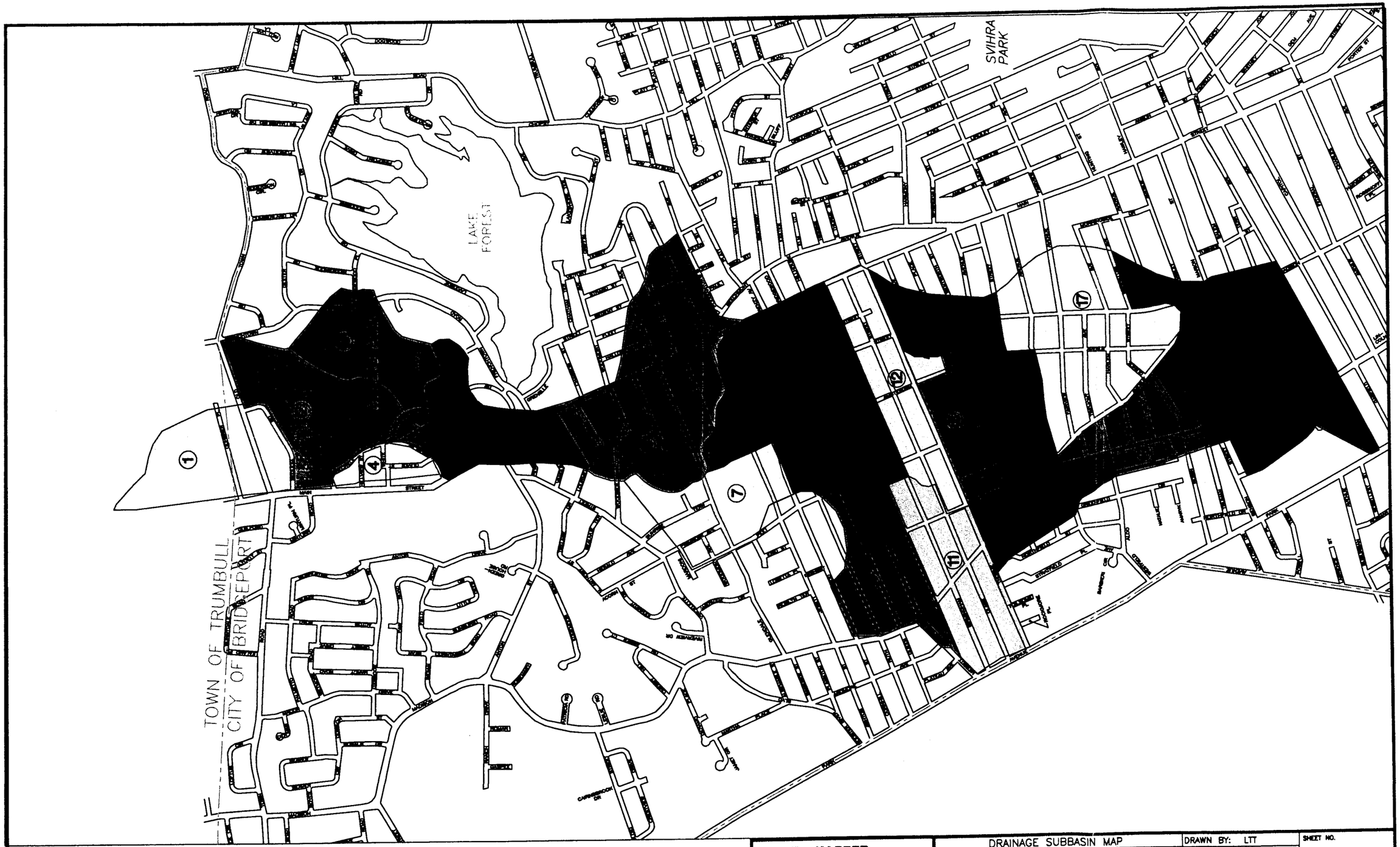
www.kasperpnc.com
998 Fairfield Avenue Bridgeport, CT. 06605
(203) 576-1902 • Fax (203) 366-2220

EXIST DVERSION STRUCTURE SECTION
OX BROOK FLOOD CONTROL PROJECT
BRIDGEPORT, CONNECTICUT
PREPARED FOR
THE CITY OF BRIDGEPORT

DRAWN BY:	LTT
CHECKED BY:	RK
CAD FILE:	H/6811/DETAIL2
PROJECT NO:	6811
SCALE:	1"=4'
DATE:	APRIL 2001

SHEET NO.
FIG. 3b



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50 YEARS OF EXCELLENCE

DRAINAGE SUBBASIN MAP

OX BROOK FLOOD CONTROL PROJECT
BRIDGEPORT, CONNECTICUT

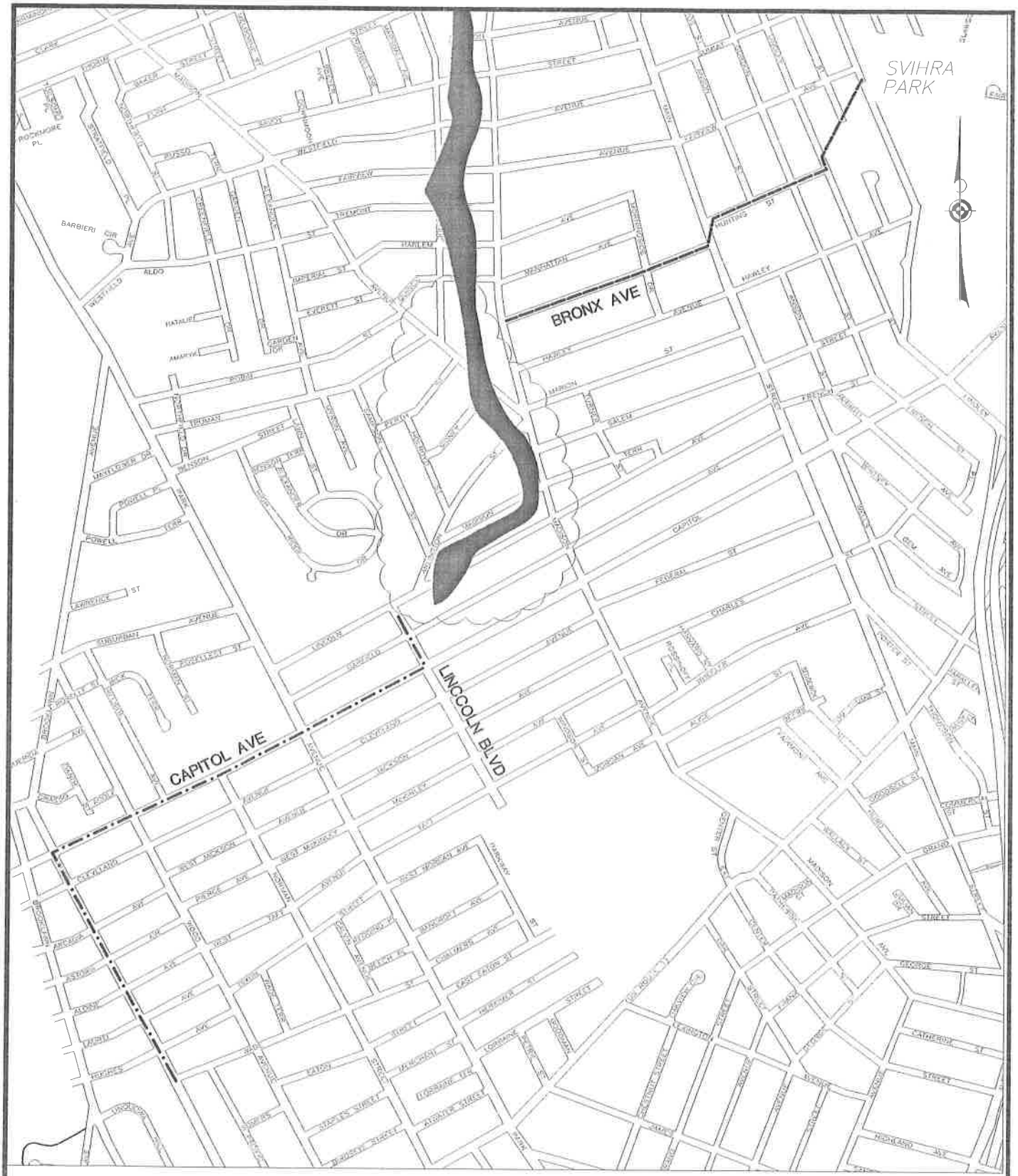
PREPARED FOR

THE CITY OF BRIDGEPORT

DRAWN BY:	LTT
CHECKED BY:	RK
CAD FILE:	H/6811/SUBBASIN
PROJECT NO:	6811
SCALE:	1"=1000'
DATE:	APRIL 2001

SHEET NO.

FIG. 4



----- ALTERNATE 1 3500' (RECOMMENDED ALTERNATE)
----- ALTERNATE 2 5500'
3,200' OF ADDITIONAL CHANNEL IMPROVEMENT NEEDED FOR ALTERNATE 2

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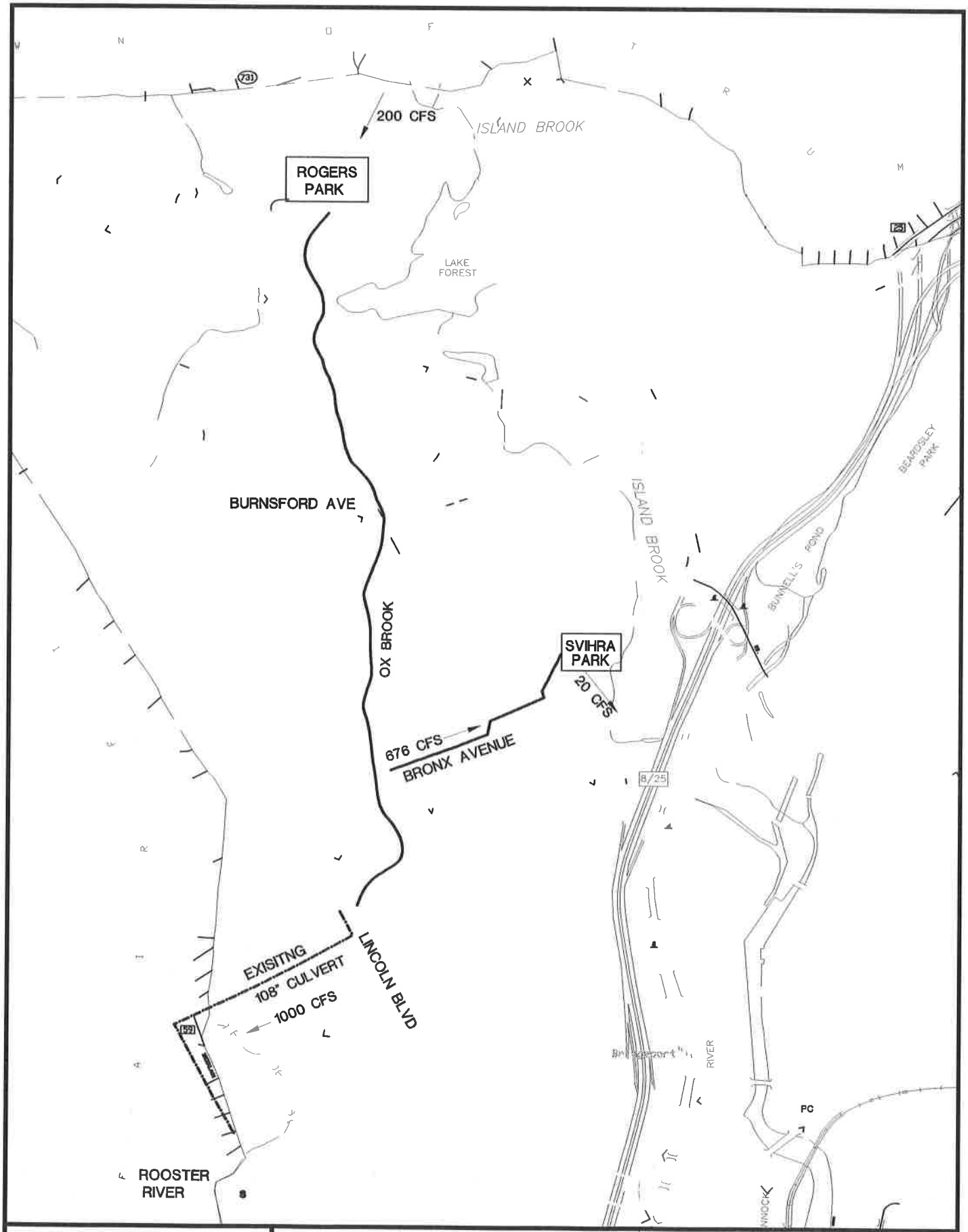
PROPOSED ALTERNATES
OX BROOK FLOOD CONTROL PROJECT
BRIDGEPORT, CONNECTICUT
PREPARED FOR
THE CITY OF BRIDGEPORT

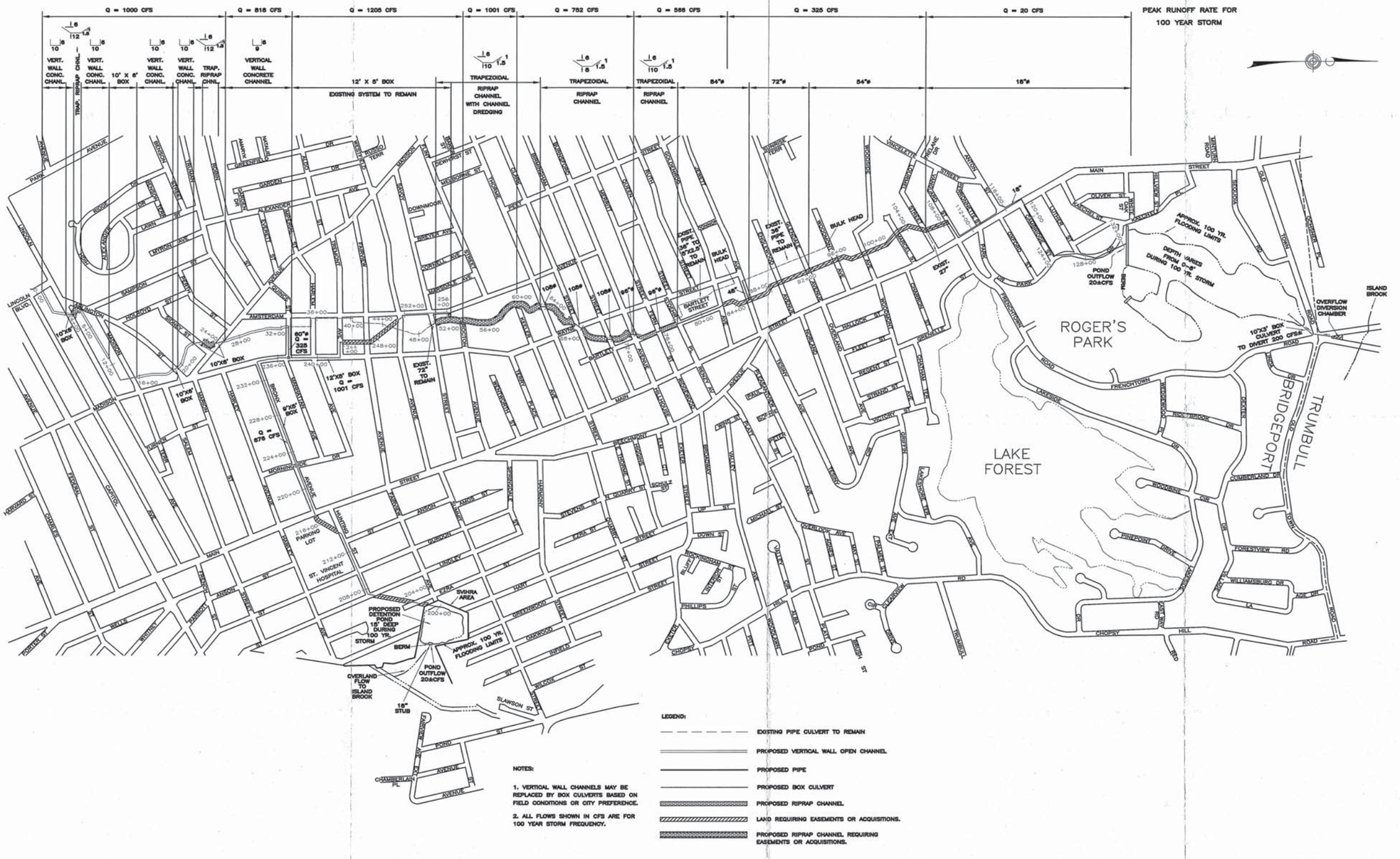
DRAWN BY:	LTT
CHECKED BY:	RK
CAD FILE:	H/6811/IMPROVEMENT
DESIGN BY:	RK
SCALE:	1"=1000'
DATE:	4-13-2001

SHEET NO.

FIG. 5



KASPER GROUP INC. Engineers ▪ Architects ▪ Surveyors 80 YEARS OF EXCELLENCE	CONCEPTUAL DRAINAGE PLAN OX BROOK FLOOD CONTROL PROJECT BRIDGEPORT, CONNECTICUT PREPARED FOR THE CITY OF BRIDGEPORT	DRAWN BY: LTT CHECKED BY: RK CAD FILE: H/6811/FIGURE6 DESIGN BY: RK SCALE: 1"=2000' DATE: 4-30-2001	SHEET NO. FIG. 6



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REVISIONS			
NO.	BY	DATE	DESCRIPTION
1		MAY 98	ADDED STATIONING

PROJECT TITLE

OX BROOK FLOOD CONTROL PROJECT
BRIDGEPORT, CT

PREPARED FOR:
THE CITY OF BRIDGEPORT

SHEET TITLE

RECOMMENDED IMPROVEMENT

CAD FILE: H:\USER\RAW\OXBROOK	SCALE: 1"=400'
PROJECT NUMBER: 98K68111N	DATE: APRIL 1998

SEAL

SHEET NUMBER

FIG 7

Appendix B – Public Scoping Notice, Presentation Slides, and Transcript, Post-Scoping Notice

(Note that no public or agency comments were received during the Scoping Period; thus, no comments are appended)

Connecticut State
Council on Environmental Quality

(/CEQ)

Current Issue (/CEQ/Environmental-Monitor/Environmental-Monitor/Environmental-Monitor---Current-Issue)
Archives (/CEQ/Environmental-Monitor/Environmental-Monitor-Archives/Environmental-Monitor-Archives)
Publication Dates (/CEQ/Environmental-Monitor/Publication-Dates)
What is CEPA (/OPM/IGPP-MAIN/Responsible-Growth/CEPA/Overview-of-Connecticut-Environmental-Policy-Act)
- CEPA Statutes (/CEQ/Environmental-Monitor/CEPA-Statutes)
- CEPA Regulations (/CEQ/Environmental-Monitor/CEPA-Regulations)
- What is Scoping? (/CEQ/Environmental-Monitor/What-is-Scoping)
- What to Expect at a Scoping Meeting? (/CEQ/Environmental-Monitor/What-to-Expect-at-a-Scoping-Meeting)
- How to Request a Public Scoping Meeting (/CEQ/Environmental-Monitor/How-to-Request-a-Public-Scoping-Meeting)
Guide to the State Lands Transfer Process (/CEQ/Environmental-Monitor/State-Lands-Transfer-Process)

Search Council on Environmental Quality



October 5, 2021

Scoping Notice

1. Notice of Scoping for Eagleville Green, Mansfield - Multifamily Housing Development, Mansfield.
2. Notice of Scoping for Replacement of Bridge No. 00162 - I-95 over Metro North Railroad, West Haven.
3. **NEW!** Notice of Scoping for the Ox Brook Flood Control Master Plan, Bridgeport.

Scoping Notice - Post-Scoping Notice (Need More Time)

No notice for additional time has been submitted for publication in this edition.

Post-Scoping Notice

No Post-Scoping notice has been submitted for publication in this edition.

Environmental Impact Evaluation (EIE)

1. **NEW!** Notice of an Environmental Impact Evaluation (EIE) for Naugatuck Valley Regional Wastewater Study, Ansonia, Derby, and Seymour.

3. Notice of Scoping for the Ox Brook Flood Control Master Plan

Project Title: Ox Brook Flood Control Master Plan and Environmental Impact Evaluation

Addresses of possible locations: Various locations along Ox Brook in the City of Bridgeport, extending from Elton Rogers Park at the north end to Lincoln Boulevard at the south end of the Project (See Figures 1 and 2 below).

Municipality where proposed action might be located: Bridgeport

Project Description: The Connecticut Department of Energy and Environmental Protection (CT DEEP) is funding the implementation of Phase 1 of the Ox Brook Flood Control Master Plan, a six-phase project. Phase 1 of the Project has progressed through permitting level design with permit applications submitted, while the remaining Phases (Phases 2-6) are at the preliminary design phase. Note that the overall Project is anticipated to take decades to complete and that funding has only been identified for Phase 1 at this time. The Project is being proposed to address a long history of flooding along the corridor, resulting in roadway flooding and repeated damages to properties along Ox Brook. The Project is located generally along Ox Brook in the City of Bridgeport, CT, roughly extending from Elton Rogers Park at the north (upstream) end (off Kaechele Place) to Lincoln Boulevard at the south (downstream) end (between Lincoln Ave. and Garfield Ave.).

The six phases of the Project are:

• Phase 1: Construction of a storage impoundment within Elton Rogers Park, via rehabilitation of the existing dam and construction of two dikes within the park property, to provide storage and reduce the peak flow discharged to Ox Brook.

• Phase 2: Three main components: (1) construction of a detention pond for storage within Svihra Park with a 18-inch outlet pipe to Island Brook, (2) construction of 3,850 linear feet of 9-ft x 5-ft box culvert in Wayne Street, Bronx Avenue, and Hunting Street, to divert Ox Brook flows to the new detention area, and (3) construction of a 12-ft x 5-ft box culvert to reroute a segment of Ox Brook from a point approximately 100 feet south of Rocton Avenue along Amsterdam Avenue, through several backyards, down Tremont Avenue to Wayne Street to Quince Street. From Quince Street, a 60-inch diameter pipe will discharge flow back to the existing Ox Brook channel. The remainder of the flow would be discharged to the 9-ft x 5-ft box culvert at Wayne Street. The existing Ox Brook channel in the affected reach would remain in place to convey local runoff.

• Phase 3: Channel and crossing improvements from Lincoln Boulevard upstream to Quince Street. Open channel segments would be improved to either a trapezoidal or rectangular cross-sections within this reach. Five street crossings would be improved with box culverts.

• Phase 4: Channel and crossing improvements from Rocton Avenue to Burnsford Avenue. Open channel segments will be improved to either a trapezoidal or rectangular cross-sections within this reach. The culvert beneath Burnsford Avenue would be replaced. Three additional crossings would be improved with larger diameter culverts.

• Phase 5: Channel and crossing upgrades from Burnsford Avenue upstream to Lourmel Street. The existing open channel segment between Burnsford Avenue and Stoehr Place would be improved to a trapezoidal cross-section. Between Lourmel Street and Stoehr Place, the existing brook is piped and improved sections will be installed, ranging in size from 54-inches to 84-inches in diameter.

• Phase 6: Construction of the Island Brook diversion to the Elton Rogers Park storage area. This will consist of approximately 650 LF of 10-ft x 3-ft box culvert in Old Town Road. This phase would also include the construction of an 18-inch pipe discharging flow from the dam to Ox Brook at Lourmel Street.

CT DEEP will be preparing an Environmental Impact Evaluation (EIE) which will incorporate comments from the scoping meeting and evaluate the No Action alternative, the Master Plan alternative, subalternates within the Master Plan, and other Flood Protection Measures.

Project Maps: Click here for maps for this project for general locations of the project area and phases: **Figure 1: Locus Map (-/media/5B8774AEB04D49E28C5E68145ABFFE42.ashx)**; **Figure 2: Project Phasing Plan (-/media/7A1F35A56CA74A3DACA502348B07181B.ashx)**

Additional mapping can be viewed at **Ox Brook Scoping** , and please contact Fred Riese at 860-424-4110 to arrange to view in-person at CT DEEP at 79 Elm Street.

Written comments from the public are welcomed and will be accepted until the close of business on: **Thursday, November 4, 2021**

There will be a Public Scoping Meeting for this proposed action:

DATE: **Monday, October 18, 2021**

TIME: 7:00pm EST

PLACE: Virtual/ Zoom

NOTES: The meeting will be held virtually using Zoom and can be accessed using the following link and passcode:

Meeting ID: 927 2412 2339 Passcode: 958744

Individuals with limited internet access can listen tot he meeting by calling 646 876 9923 and entering the Meeting ID/ Participant Code when prompted.

https://gza.zoom.us/j/92724122339 (https://gza.zoom.us/j/92724122339)

Written comments and/ or questions about the meeting or project should be sent to the following (Please use "Ox Brook" in the subject line for emails):

Name: Fred Riese

Agency: Connecticut Department of Energy and Environmental Protection

Address: 79 Elm Street, Hartford CT 06106

Phone: 860-424-4110

Fax: 860-424-4053

E-Mail: Frederick.Riese@ct.gov

What Happens Next: CT DEEP will prepare an Environmental Impact Evaluation (EIE) under the Connecticut Environmental Policy Act (CEPA). The EIE will be available for public comment in late fall/winter of 2021/2022. A Post-Scoping Notice will appear in a future edition of the Environmental Monitor.

Scoping Notice - Post-Scoping Notice (Need More Time)

If an agency is unable to publish a Post-Scoping Notice within six months after the comment period for scoping, the agency will publish an update with an action status and an estimate as to when a Post-Scoping Notice will be published. Such an update will be published by the agency at six-month intervals until the Post-Scoping Notice is published. Read More (/CEQ/Environmental-Monitor/CEPA-Regulations#22a-1a-7) (http:)

No notice for additional time has been submitted for publication in this edition.

Post-Scoping Notice

A Post-Scoping Notice is the determination by a sponsoring agency, after publication of a Scoping Notice and consideration of comments received, whether an Environmental Impact Evaluation (EIE) (https://www.cga.ct.gov/current/pub/chap_439.htm#sec_22a-1b) needs to be prepared for a proposed State action. (/CEQ/Environmental-Monitor/CEPA-Regulations)Read More (/CEQ/Environmental-Monitor/CEPA-Regulations#22a-1a-7)

No Post-Scoping Notice has been submitted for publication in this edition.

EIE Notice

After Scoping, an agency that wishes to undertake an action that could significantly affect the environment must produce, for public review and comment, a detailed written evaluation of the expected environmental impacts. This is called an Environmental Impact Evaluation (EIE) (https://www.cga.ct.gov/current/pub/chap_439.htm#sec_22a-1b). Read More (/CEQ/Environmental-Monitor/CEPA-Regulations#22a-1a-8)

The following EIE Notice has been submitted for publication in this edition.

---

1. Notice of an Environmental Impact Evaluation (EIE) for Naugatuck Valley Regional Wastewater Study

Municipalities where proposed action is to be located: Ansonia, Derby, Seymour

Project Description: The Department of Energy and Environmental Protection (DEEP), together with the Naugatuck Valley Council of Governments (NVCOG), evaluated potential wastewater treatment consolidation alternatives for five municipalities in the Naugatuck Valley. The purpose and need of this study are to identify and evaluate feasible and cost-effective options for reducing the number of treatment facilities while addressing the wastewater treatment challenges faced by the participating municipalities, in order to lower their future wastewater treatment costs and enhance

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Connecticut Environmental Policy Act

Public Scoping Meeting

Ox Brook Flood Control Master Plan Project

Connecticut Department of Energy & Environmental Protection

October 18, 2021

AGENDA

Welcome

Fred Riese, CT DEEP

- **Introductions**
- **Purpose of the Meeting**
- **How to Participate in Tonight's Meeting**
- **CEPA Process**

Ox Brook Flood Control Master Plan Presentation

Jennifer Burke, GZA

- **Project Setting**
- **Purpose and Need**
- **Proposed Action and Project Phases**
- **Alternatives**
- **Potential Impacts**
- **EIE Topic Areas**

Comments from the Public

INTRODUCTIONS

CT DEEP (Sponsoring Agency)
- Fred Riese
- Dan Biron

City of Bridgeport
- Jon Urquidi, City Engineer

GZA GeoEnvironmental, Inc (GZA)
- Stephen Lecco
- Jennifer Burke
- Seth Taylor

PURPOSE OF THE MEETING

- **To inform the public as well as local, state, and federal agencies about the Proposed Action**

- **To receive comments regarding the elements to be included in the EIE**

- **To comply with the Connecticut Environmental Policy Act (CEPA)**

HOW TO PARTICIPATE IN TONIGHT'S MEETING

- **Please remain muted during the presentation and hold comments until the end**
- **If you would like to speak during the public comment period tonight:**
  - **Please add your name in the CHAT box and use the RAISE HAND feature (Under Reactions Tab)**
  - **When called upon, please unmute yourself (you may see a request popup to unmute)**
  - **Please provide your name and address before your comments**
  - **Please limit your comments to 3 minutes (Note: you can also provide comments via email or in writing – info will be provided at the end)**
- **The public comment time tonight and the comment period is your time to be heard**
- **If you are having audio issues, you can call into the meeting on a phone with the Scoping Notice information *(Audio call: 646-876-9923 and enter Meeting ID/Participant Code 927 2412 2339 and password 958744 if prompted) – please remain muted***

CEPA PROCESS

- Connecticut Environmental Policy Act ("CEPA")
- Conn. Gen. Statutes Sections 22a-1 through 22a-1h
- State Agency Actions of Certain Size or Potential Impact Require Compliance with CEPA
- State Agency Involvement
- Public Involvement Process



CEPA PROCESS

Register With CEQ for CEPA Notices at http://www.ct.gov/ceq

State Action Triggers CEPA Review

Public Scoping Period
(30-day public review and comment period)

Public Scoping Meeting
October 18, 2021

Comment Period Ends
November 4, 2021

Review of Public and Agency Comments
Identification of Issues
Alternatives Analysis
Evaluation of Impacts

Post-Scoping Notice

Environmental Impact Evaluation ("EIE") Published
(45-day public review and comment period)

Public Hearing
Winter 2021/2022

Public and Agency Review/Comment
Winter 2021/2022

Record of Decision
(submitted to Office of Policy and Management for a Determination of Adequacy; posted on agency website)

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PROJECT SETTING/PURPOSE AND NEED

- **Long history of flooding within multiple areas of Bridgeport, including Ox Brook**
  - **Repeated flood damages to homes, businesses**
  - **Emergency response demands**
  - **Public safety and health risks**
- **Studies have been undertaken since the 1970s to identify potential solutions**







PURPOSE AND NEED

To alleviate chronic flooding along the Ox Brook corridor through implementation of the Ox Brook Flood Control Master Plan



PROPOSED ACTION

- **Ox Brook Flood Control Master Plan Implementation**
  - **In 2001 a six (6) Phase Project was proposed to reduce flooding**
  - **Detailed design was completed for Phase 1 only**
  - **Phases 2-6 are at the preliminary design phase (final design needed)**
- **State funding has only been identified for Phase 1**
- **Phases 2-6 of the project may take decades to complete and still need funding and design**
- **For CEPA, the entire project (Phases 1-6) is being included in the review process**





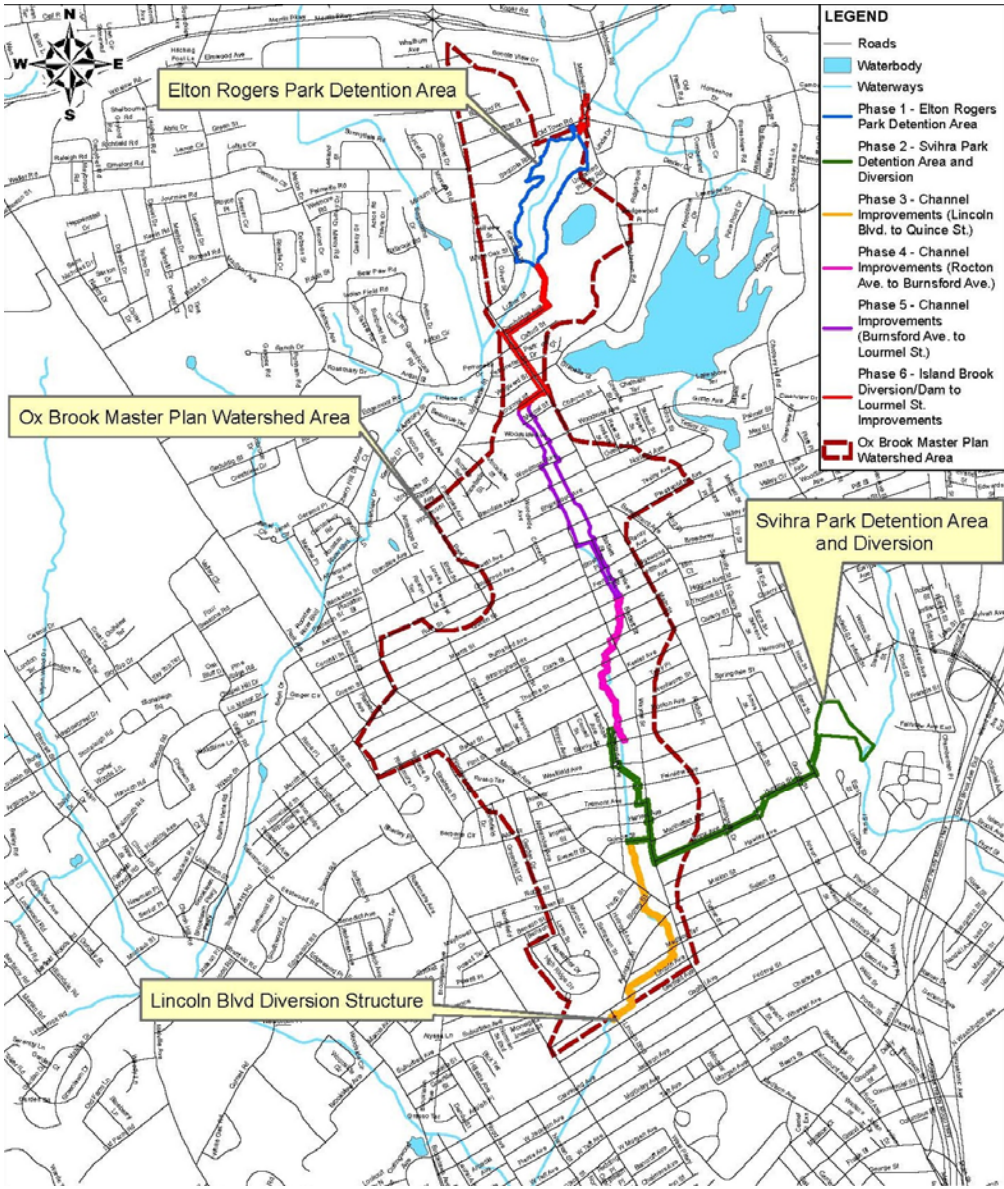
Stream segments at Arlington, Thorme Street crossings, end of Bartlett Street

PROJECT LOCATION

- **Along Ox Brook in the City of Bridgeport**
  - **Northern limits at Elton Rogers Park**
  - **Southern limits at Lincoln Boulevard between Lincoln Ave./Garfield Street**







PROJECT PHASING – PHASE 1

- **Construction of a storage impoundment within Elton Rogers Park, via rehabilitation of the existing dam and construction of two dikes within the park property to provide storage and reduce the peak flow discharged to the upstream end of Ox Brook**



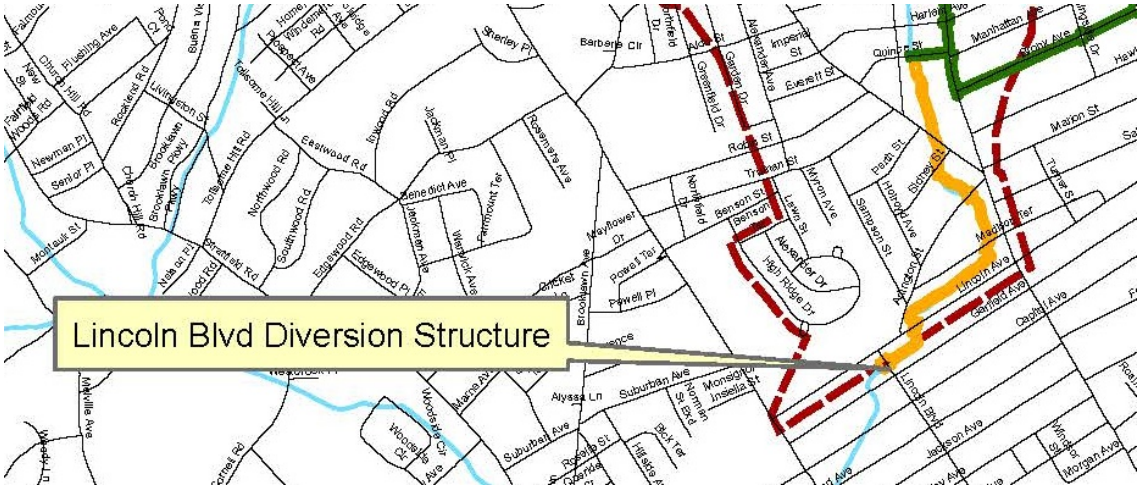
PROJECT PHASING – PHASE 2

- Construction of:
  - Detention area for storage within Svihra Park with outlet to Island Brook
  - Box culvert in Wayne Street, Bronx Avenue, and Hunting Street, to divert Ox Brook flows to Svihra Park
  - Box culvert to reroute a segment of Ox Brook from a point approximately 100 feet south of Rocton Avenue along Amsterdam Avenue, through several backyards, down Tremont Avenue to Wayne Street to Quince Street
  - From Quince Street, a 60-inch diameter pipe will discharge flow back to the existing Ox Brook channel
  - The remainder of the flow will be discharged to the box culvert at Wayne Street
  - The existing Ox Brook channel in the affected reach will remain in place to convey local runoff



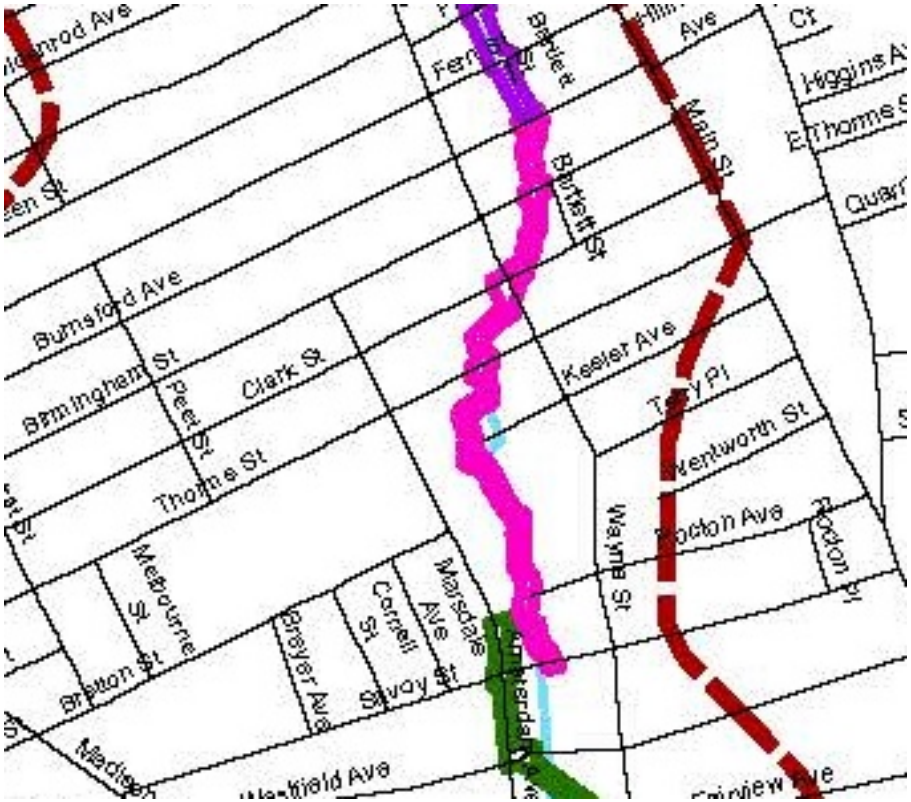
PROJECT PHASING – PHASE 3

- Channel and crossing improvements from Lincoln Boulevard upstream to Quince Street
- Open channel segments will be improved to either a trapezoidal or rectangular cross-sections within this reach
- Five (5) crossings will be improved with box culverts



PROJECT PHASING – PHASE 4

- Channel and crossing improvements from Rocton Avenue to Burnsford Avenue
- Open channel segments will be improved to either a trapezoidal or rectangular cross-sections within this reach
- The culvert beneath Burnsford Avenue will be replaced
- Three (3) additional crossings will be improved with larger diameter culverts



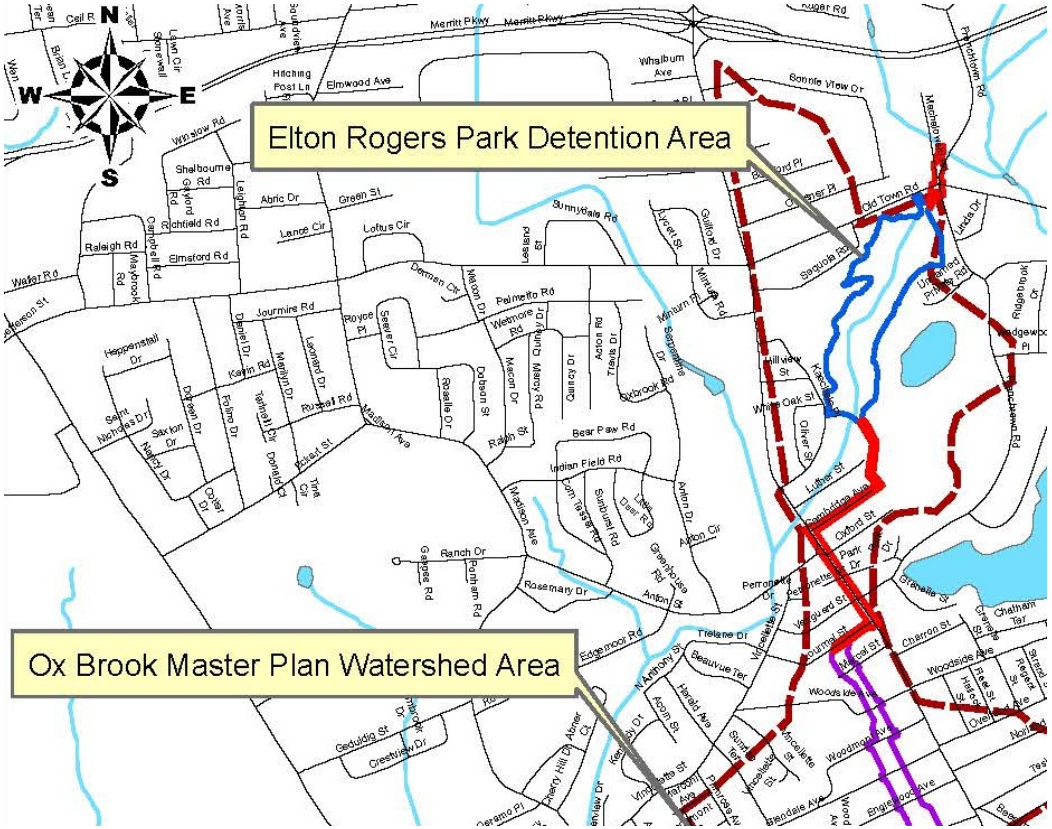
PROJECT PHASING – PHASE 5

- Channel and crossing upgrades from Burnsford Avenue upstream to Lourmel Street
- The existing open channel segment between Burnsford Avenue and Stoehr Place will be improved to a trapezoidal cross-section
- Between Lourmel Street and Stoehr Place, Ox Brook will be enclosed in a conduit, ranging in size from 54-inches to 84-inches in diameter



PROJECT PHASING – PHASE 6

- Construction of the Island Brook diversion to the Elton Rogers Park storage area with a box culvert in Old Town Road
- Construction of an 18-inch pipe discharging flow from the dam to Ox Brook at Lourmel Street



ALTERNATIVES TO BE CONSIDERED

- **No Action Alternative**
- **Master Plan Alternative (Preferred Alternative/Proposed Action)**
- **Subalternates from the Master Plan and Phase 1 design**
- **Flood Protection Measures**

ALTERNATIVES CONSIDERED

- **No Action Alternative**
  - **No action would be taken, flooding would continue to occur and worsen in response to climate change (more frequent and intense storm events)**
- **Master Plan Alternative (Preferred Alternative/Proposed Action)**
- **Subalternates within the Master Plan and Phase 1 design**
- **Flood Protection Measures**

ALTERNATIVES CONSIDERED

- No Action Alternative
- **Master Plan Alternative (Preferred Alternative/Proposed Action)**
  - **Ox Brook Flood Control Master Plan would be implemented over time to address flooding issues through improvements to the existing Ox Brook system**
- Subalternates within the Master Plan and Phase 1 design
- Flood Protection Measures

ALTERNATIVES CONSIDERED

- No Action Alternative
- Master Plan Alternative (Preferred Alternative/Proposed Action)
- **Subalternates within the Master Plan and Phase 1 design**
  - **During the Master Planning process, subalternates were identified:**
    - **Instead of Phase 2 Svihra Park detention and diversion, pipe Ox Brook from Lincoln Blvd within Capital Ave. to Laurel Ave. then south to Rooster River**
    - **Consideration of different pipe sizes, types, and channel sizes, etc.**
  - **Two subalternates as part of Phase 1 design:**
    - **Use of depression east of existing main impoundment for additional storage**
    - **Potential construction of cut-off channel in the Park Drive right-of-way**
- Flood Protection Measures

ALTERNATIVES CONSIDERED

- No Action Alternative
- Master Plan Alternative (Preferred Alternative/Proposed Action)
- Subalternates within the Master Plan and Phase 1 design
- **Flood Protection Measures**
  - **Acquisition/relocation**
  - **Levees/floodwalls**
  - **Floodproofing (dry or wet)**
  - **Elevation of structures**

POTENTIAL IMPACTS AND MITIGATION

- **Impacts to physical, natural, and socioeconomic resources will be identified and described as part of the CEPA process**
- **Significant impacts will be mitigated**
- **Mitigation measures will be identified during the CEPA process and carried through design and construction**

TYPICAL EIE EVALUATION REVIEW AREAS

- Geology/Soils/Topography
- Water Resources
- Site Ecology and Wetland Resources
- Endangered, Threatened, and Special Concern Species
- Traffic/Bicycle/Pedestrian Access
- Air Quality
- Noise
- Light and Shadow, Aesthetics
- Utilities
- Solid Waste and Recycling
- Cultural Resources (Historic & Archaeological)
- Pesticides, Toxic or Hazardous Materials
- Energy
- Socioeconomic Resources
- Public Health and Safety
- Benefit/Cost Analysis
- Consistency with Plans, Policies, Regulations
- Cumulative Impacts

COMMENTS

- **Oral public comments are welcome now**
- **Written comments due at close of business on November 4, 2021 (or must be post-marked by this date)**
- **Send written comments to:**

Fred Riese
CT Department of Energy and Environmental Protection (CT DEEP)
79 Elm Street
Hartford, CT 06106
Phone: 860-424-4110
Fax: 860-424-4053
Email: Frederick.riese@ct.gov

- **Additional project information is available on the City website at: https://www.bridgeportct.gov/filestorage/341650/341652/368103/OXBROOKSCOPING.pdf**

Register With CEQ for CEPA Notices at http://www.ct.gov/ceq

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COPY

CONNECTICUT ENVIRONMENTAL POLICY ACT

PUBLIC SCOPING MEETING

HELD VIA ZOOM VIDEOCONFERENCE

OX BROOK FLOOD CONTROL MASTER PLAN PROJECT

OCTOBER 18, 2021

COMMENCING AT 7:00 P.M.

PRESENT:

FREDERICK RIESE, CT DEEP

DAN BIRON, CT DEEP

JON URQUIDI, CITY ENGINEER

STEPHEN LECCO, GZA GEOENVIRONMENTAL, INC.

SETH TAYLOR, GZA GEOENVIRONMENTAL, INC.

JENNIFER BURKE, GZA GEOENVIRONMENTAL, INC.

Jennifer Still, SHR, License No. SHR000301
Shea & Driscoll, LLC
30 Pepperbox Road
Waterford, CT 06385

MR. RIESE: Good evening, ladies and gentleman. This is the public scoping meeting on the Connecticut Environmental Policy Act for the Ox Brook Flood Control Project Master Plan in Bridgeport. It is 7:10 p.m. on October 18th, and we will begin the presentation. We will cover several topics. The next slide will show the agenda for tonight's meeting, and I'm Fred Riese. I'm with the Department of Energy and Environmental Protection. Others who are with us here tonight also from my department, Dan Biron; and both he and I are senior environmental analysts with the department. We also have Jon Urquidi, City Manager of the City of Bridgeport; and from GZA Associates we have Stephen Lecco who is associate principal of GZA, Jennifer Burke who is the senior project manager, and Seth Taylor who is the project manager.

The purpose of tonight's meeting -- well, that will be covered in the next slide. We'll explain that. But we're going to be going through the purpose of the meeting, give you some instructions on how to participate in the meeting, and what the CEPA, Connecticut Environmental Policy Act, process is about which drives this meeting; and then we'll turn it over to Jennifer Burke of GZA who will discuss the project setting, purpose and need, proposed action, and project

phases, alternatives, potential impacts, and the Environmental Impact Evaluation topical areas. And then by that point hopefully we will have comments from the public, which is the primary reason we're here tonight.

So next slide, Jen.

And these again -- these are the participants in tonight's -- well, the project team for tonight's meeting, and the next slide will cover the purpose of the meeting.

As you can see, I think the first is pretty explanatory, to inform the public as well as local, state, and federal officials about the proposed action. That's not only happening through this meeting, but it's happening through the scoping notice that was put in the Environmental Monitor, which is a publication of the Council of Environmental Quality as well as the newspaper notice.

We hope to receive comments regarding the elements to be included in the EIE. The purpose of the comments -- well, we're looking basically to find out what topics we may -- we should include in the document especially the topics that we may have somehow managed to overlook or that you wish to make us aware of. As you'll see in later slides, the public comments will be accepted through November 4th.

And to comply with the Connecticut Environmental Policy Act, the Connecticut Environmental Policy Act requires a public scoping meeting actually only if it's requested by 25 people or an organization that has at least 25 members. However, we're proactively holding this scoping meeting tonight for public informational purposes as well as to gather any comment that may be offered and -- well, we're -- we're hoping since that's the purpose we're here that we will get some public comment and also be able to inform members of the public as well as agencies and governments more about this project.

So we'll move on to the next slide.

At the moment since we don't have any public here to benefit from the slide, I'll simply mention that this meeting is being recorded; and it's recorded so that we'll have this both for our value to go back and look at any comments that are received as well as for archival value. So the meeting, to let everyone know, is recorded. If we do get some public speakers attending later on, I will -- I or Jen will bring up that point again just because we want to let everyone know that they are being recorded.

So move to the next slide.

Okay. The Connecticut Environmental Policy

Act is what drives this. It's a piece of legislation which requires state agencies to look at the environmental impacts of their actions or at least of their more significant actions and to state how they would attempt to mitigate -- avoid or mitigate those impacts.

The third bullet there stating the actions of certain size or potential impact require compliance with the Connecticut Environmental Policy Act. For the Department of Energy and Environmental Protection -- our environmental classification document includes an item that says construction of flood control projects, except projects which essentially consist of drainage improvements, have no federal funding because federal funding would kick it into the National Environmental Policy Act. The Ox Brook Project does meet the criteria in the environmental classification document.

State agency action -- DEEP is the sponsoring and funding state agency; and as far as the public involvement process, beyond the scoping meeting we will have the Environmental Impact Evaluation which this will lead to which will be circulated for public review and comment. So there will be a further opportunity down the road to comment on this project.

As part of that process, we also would

anticipate holding another public meeting under CEPA in order to gather comments on the Environmental Impact Evaluation that will be done either very late this year or more likely early in 2022. Don't want to set any time frames that are too specific because the process can sometimes be a little bit volatile.

The next slide will show a little bit more a flow chart of how the CEPA process works. Again, certain state agency actions trigger CEPA. Those are actions which show up on an environmental classification document which is a document either agencies can individually maintain or the Office of Policy and Management maintains one that serves statewide overall agencies. This particular action -- this flood control project shows up -- or meets the criteria in the Department of Energy and Environmental Protection's environmental classification document, so it becomes a CEPA action.

Public scoping meeting is what is going on right now. The comment period will run through November 4th; and the review of actions through the EIE process, including this scoping meeting, impacts will be identified. We will look at alternatives. We will look at how to mitigate or avoid the impacts. Other comments -- other areas such as what permits are needed

for the project but -- and then we'll look at impacts to specific resources that may come into play.

As it says, this process is leading toward an Environmental Impact Evaluation which will have its own comment period sometime likely this winter; and that will have a 45-day comment period. Ultimately those comments will be responded to, and the agency will prepare a record of decision to forward to OPM, the Office of Policy and Management. In that record decision, we will again state what the action is, if we have made a decision to go ahead with the action as proposed, or if we're making any modifications based on information that may have come to light during the EIE process as well as having to document certain things like the original scoping notice, the original notice of availability of the document, and the distribution of most of the documents. So there are certain administrative things that are covered; but in general the important thing is that we will include a list of the public comments which were received and our responses to address each of those comments.

That concludes the discussion on the CEPA process. We'll now move to specific discussion outlining what the proposed action is, and for that which is the -- certainly the more important,

interesting portion of the presentation, Jennifer Burke will take us through that.

Thank you, Jennifer.

MS. BURKE: Thanks, Fred; and thank you, everyone, for being here this evening.

So the project we're going to be discussing tonight is the Ox Brook Flood Control Master Plan project, and I just wanted to provide a little bit of a geographic orientation for you. So at the center of the -- at the map here, you'll see an area in dark blue; and that is the project area we'll be discussing tonight which goes along Ox Brook.

So Ox Brook flows from north to south on that alignment before it discharges to the Rooster River down at the south and center portion of the screen. The Rooster River has two main tributaries which are west of Ox Brook: Londons Brook and then also, of course, Horse Tavern Brook. And then to the east of Ox Brook is Island Brook which flows north/south to Lake Forest and then down to the Pequonnock River.

So those that may live in Bridgeport or others that are familiar with the region know that there's a long history of flooding in multiple areas of Bridgeport, including the Ox Brook corridor. In the Ox Brook corridor, there is a history of repeated flood

damages to homes and businesses. There are emergency response demands based on this history of flooding, including police and fire response, road closures, diversions, basement pump-outs, and other sort of emergency services that may be required during a flood such as evacuations or rescues.

These repeated flood events also cause public health and safety risks, not only from contact with flood waters but from risks associated with being in inundated cars and other such activities.

So that documents the need for a study to be done. Since the 1970s there's been a history of studies; and some earlier action, especially within the Rooster River corridor, there's been some flood mitigation actions that have already been taken.

So the purpose of this work is to remediate the chronic flooding along the Ox Brook corridor through the implementation of the Ox Brook Flood Control Master Plan to alleviate situations like you see here which was over the last few years in town.

So the proposed action that we'll be discussing tonight is the implementation of the master plan. In 2001, Kasper Associates proposed a six-phase master plan project that would reduce flooding within the watershed to Ox Brook. Of that six-phase project, a

detailed design has been completed for Phase 1 only by Tighe & Bond. Phases 2 through 6 are more of a long-range goal, and those are the preliminary design phase only. Final design is still needed for this work. And at this time state funding has only been identified for Phase 1 of the project. Phases 2 through 6, because they're still a preliminary design and don't have dollars associated with them yet, may take decades to complete; but for CEPA we're looking at the project holistically for Phases 1 through 6 because OPM prefers with such long-rage projects that they're looked at in one shot so that all potential impacts can be assessed.

So the photos you see here just give you an idea of some of the existing stream channel segments along Ox Brook as they appear today.

So the northern limits of the project we'll be discussing today are Elton Rogers Park, which is in blue at the top of your screen. The photo on the left here is actually a photo of the existing remanence of a dam at Elton Rogers Park.

The southern limits or downstream limits of the project we'll be discussing are at Lincoln Boulevard between Lincoln Ave. and Garfield Street; and the photo on the right is that area just before it goes into the Lincoln Boulevard diversion structure that's shown on

your map here. And I wanted to show this figure before we talk about the individual six phases because it shows how all the phases relate, and it also gives you an idea of the extent of the project.

The other thing it shows is the inner play between Ox Brook and Island Brook. While Kasper worked on some of their studies from the '70s through 2001, they realized that a regional approach was needed to address the flooding within the Ox Brook corridor and the adjacent Island Brook corridor; and as part of their work, they proposed a diversion of some flow from the Island Brook corridor into the Ox Brook corridor at the north end of the project and then diversion of flows from Ox Brook back to Island Brook towards the south end of the corridor. And we'll be discussing that in detail tonight, but I just wanted to point this out while there's a holistic map of the system up.

So Phase 1 of the project is for the construction of a storage impoundment within Elton Rogers Park, and this would be done by using the existing dam and rehabilitating it as well as the construction of two small dikes or berms in the northeastern portion of the park. And this will allow for this area to serve as storage and also to reduce the peak flow that's discharging to the upstream end of the

Ox Brook system; and this is an important first step on its own because it will help detain and slow flows entering the Ox Brook system even before Phases 2 through 6 are implemented.

Phase 2 of the project is also a phase that includes storage and detention this time at Svihra Park which is on the east side of the map you see here. So under this phase of the project a detention area would be constructed within Svihra Park that would outlet to Island Brook to the east. In order to facilitate that, a diversion needs to be constructed to divert flows from Island -- from Ox Brook -- sorry -- until it can reach Svihra Park; and this would be completed by construction of a diversion along Wayne Street, Bronx Ave., and Hunting Street over to Svihra Park. In order to accomplish this, the diversion would start with diverting flows south of Rocton Ave., along Amsterdam Ave., across backyards, down along Tremont Ave., and then out to Wayne Street.

At the junction with Quince Street, flows would have two options. They would probably be directed via a 60-inch diameter pipe back into the Ox Brook channel while the remainder would be developed -- would be directed towards Svihra Park. This phase of the project would also allow the existing channel to remain,

and that would continue to handle some local runoff as well.

So with these two diversions set up and storage areas, then the focus can turn to the actual channel and crossing improvements. The channel and crossing improvements have to be done in order after the detention has been created in order to make sure that there won't be impacts to downstream areas associated with the project. So Phase 3 starts at the downstream end and looks at channel and crossing improvements from Lincoln Boulevard north to Quince Street. This segment is already primarily open channel, and the open channel segments would be improved to either include a trapezoidal or rectangular cross section within the reach; and in addition multiple road crossings, five in total, would be improved as part of this phase.

Phase 4 is north of the area of the Svihra Park diversion which was Phase 2, and this includes channel and crossing improvements from Rocton Ave. to Burnsford Ave.; and Burnsford Ave. being here on the north end. So under this, open channel segments will be improved with either trapezoidal or rectangular cross sections within the reach. The culvert at Burnsford Ave. will be replaced, and three additional crossings will also be improved with larger diameter culverts.

So Phase 5 continues to the north; so the pink here you see is Phase 4, and this is Phase 5. Phase 5 includes channel and crossing upgrades from Burnsford Ave. at the south to Lourmel Street at the north; and in this section there's only one small open channel segment between Burnsford and Stoehr Place, and that will be improved to a trapezoidal channel. Between Lourmel Street and Stoehr Place, the brook will be enclosed in a conduit that will be improved and range in size from 54 inches to 84 inches in any diameter along this section.

So for Phase 6, we're down to the last phase; and there's two distinct elements, the first of which is the construction of an 18-inch pipe discharging flow from the dam to Ox Brook at Lourmel Street here along existing roadways. And then the last piece of the six-phase project is the final connection between Island Brook and Ox Brook systems by the construction of a diversion box culvert that will discharge underneath Old Town Road.

And with that all six phases would be completed, and the connections between Island Brook and Ox Brook would also be complete.

So as part of the CEPA process, we will be looking at various alternatives that have been considered throughout the project's time line. They're

indicated here, and I'll describe each one in a little bit of detail.

So the first is the no action alternative, which is exactly what it sounds like. Under this alternative, no action would be taken. Flooding would continue to occur along Ox Brook in homes and businesses and would most likely be worsening in response to climate change where we have more frequent and intense storm events.

The second alternative is the master plan alternative, which is the proposed action we've discussed tonight as the preferred alternative. Under this alternative, the master plan would be implemented over time to address flooding issues along the corridor through improvements to the existing system.

And over the years through the development of the project, subalternates have been looked at within the Kasper Master Plan and also within the Phase 1 design for Elton Rogers Park done by Tighe & Bond.

During the master planning process by Kasper, they looked at a specific subalternate for Phase 2. Instead of using the Svihra Park detention and diversion, they looked at the potential to pipe Ox Brook from Lincoln Boulevard within Capitol Ave., to Laurel Ave., and then south to the Rooster River. So instead

of a diversion with a surface storage area, there would be a diversion directly to the Rooster River out of Ox Brook. They also looked throughout the years and considered different pipe sizes, types, and channel sizes as part of an iterative design process to try to optimize the best solution from the project.

Tighe & Bond, as part of the Phase 1 design, also came out with two subalternates, the first of which was the use of a depression that's located east of the existing main impoundment area to see if they could add additional storage that way.

The second was for the potential cutoff channel construction in the Park Drive right-of-way.

And these will all be discussed in more detail in the EIE.

And the final alternative being considered is other flood protection measures such as acquisition and relocation of properties and homes, levies or flood walls being constructed along the stream system, dry or wet flood proofing for homes or businesses, and also the elevation of structures, taking a structure and elevating the main living floors above the flood level.

So each of these will be discussed in detail during the EIE and will be presented as well as part of the public hearing at the end of the EIE process.

So when it's being developed, the EIE will look at potential impacts and mitigation for those impacts. It will look at impacts to physical, natural, and socioeconomic resources associated with the proposed action and describe those fully. If there are significant impacts, those will need to be mitigated; and mitigation measures will be identified as part of the CEPA process to be carried out through the design and construction of the project.

And for those that may not be familiar with the types of review areas that are included in a typical EIE evaluation, these are just a set of the potential issue areas that we would be looking at: things like geology and soil; water resources; wetlands; rare species, if they're present; things like noise, and utilities. We look at cultural resources, socioeconomic resources, impacts or potential impacts relative to public health and safety among others. And these will be assessed as part of the EIE evaluation.

And tonight we're welcoming comments for those who may be familiar with the project area and may have comments on any of these items or potentially on other items that they feel need to be reviewed as part of the CEPA process.

And at this point I'll conclude the formal

presentation, and we can open it up to comments from the public if there's anyone that's on this call and would like to participate. For those that may not have been able to attend this evening, written comments are due at the close of business on November 4th, or they at least need to be postmarked by this date. Written comments can be sent to Fred Riese at Connecticut DEEP at Elm Street in Hartford at the address you see here or via e-mail to frederick.riese@ct.gov.

There's also additional project information that's been posted on the City website, and the link is here if anyone's interested in reviewing that.

As Fred mentioned, the intent is to have the EIE ready by the -- around the end of the year, in the December to January time frame; at which time it will be noticed in the Environmental Monitor for those that would be interested in reviewing that document.

If you would like to gain notices about the CEPA -- about CEPA and the Environmental Monitor, you can go to www.ct.gov/ceq and sign up to receive those notices on their website as well.

So at this point if we have members of the public that would like to comment, we would open the meeting up to them. If you'd like to comment, you can add your name to the chat box or you can raise your hand

in the system and we can call on you that way. Once we call on you, we will be able to unmute you. We just ask that members of the public give their name and their address for the record. We will be -- as we said, this meeting is being recorded, and we also will have a transcript developed.

MR. RIESE: And, Jen, I'll just add to that that in addition to the -- when the EIE has been developed and is ready to be circulated, in addition to the notice that will be in the Environmental Monitor, there be will be notices printed in the -- in the Bridgeport paper for -- we're required to have by statute three notices over a course of three weeks advising people of the availability of the document, where to get the document, and where to address comments; so that outlet will also be available for information.

MS. BURKE: Thanks, Fred.

At this point, I don't believe there are members of the public on the call. I believe everyone that's in attendance is associated with the project at this point.

MR. RIESE: Right.

MS. BURKE: So we'll definitely wait a few more minutes to see if anyone joins to make public

comments.

MR. RIESE: Yep. We're showing 7:37. Let's give it maybe three more minutes. The fact that there is no one indicated as participating probably means there's pretty small chances of anybody tuning in at this point.

Let's see here, I did want to mention -- I'm not sure if there would be anybody who would be listening to the recordings but not seeing the slides; but if there were such a person and who wants to submit comments, although we have the address posted here and Jen did read it, the address is Fred -- and my last name is spelled R-i-e-s-e, just to make sure I get it -- at Connecticut Department of Energy and Environmental Protection, 79 Elm Street, Hartford 06106.

And we really like to get mail, so please do write in. It would be great to hear from the public.

MS. BURKE: Right. And we will be posting a copy of the slides on the City's website to try to make that available to the public to see if anyone may see that and provide public commentary as well.

And we should say the next step in the process will be the -- you know, once the comment period's closed, any comments that we receive written or oral will be reviewed by DEEP and by the City; and the EIE

process will be underway developing information, developing the document, and reacting to any comments that are received in that period.

If they indicate that a certain scope item needs to be addressed during that process, once the EIE is drafted, there will be a 45-day comment period for the public again to comment on the EIE document itself.

And the City's hoping to implement at least Phase 1 of this project this year in -- or this coming year -- sorry -- in 2022.

MR. RIESE: And I'll just add that in addition to comments, which is what we're really after -- but in addition to comments, if anyone has any questions about the project that we can answer, we'd be happy to take those questions by phone or e-mail or however and get answers back to you; so I'll offer that as a no-cost extra.

MS. BURKE: And at this point, I'm still seeing seven participants, including the City, GZA, and Connecticut DEEP. There's no members from the public registered on the call at the moment.

MR. RIESE: Okay. Well, I -- I like to give every opportunity for public comment; but I think at this point we've probably received what we're going to get. So hopefully through other means through the

recording or the posting on the City's website people will get this information as well.

MS. BURKE: I also would like to thank everyone for their attention that might be able to hear this recording or view the slides.

And at this point, I'm going to stop the recording of the formal meeting as there are no comments available from the public.

MR. RIESE: And to note it's 7:40 p.m. We're closing this meeting.

C E R T I F I C A T E

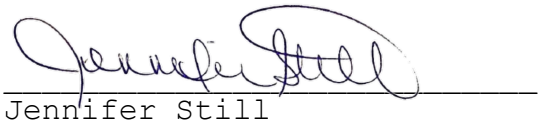
STATE OF CONNECTICUT:

COUNTY OF WINDHAM:

I, Jennifer Still, Licensed Shorthand Reporter and Notary Public, duly commissioned and qualified, do hereby certify that the preceding testimony was reduced to writing by me pursuant to the Connecticut Practice Book and Governor Lamont's Executive Order 7Q; and that it is a true record of the testimony to the best of my ability.

I further certify that I am neither attorney or counsel for, nor related to or employed by any of the parties to the action in which this deposition is taken, and further that I am not a relative or employee of any attorney employed by the parties thereto or financially interested in the action.

IN WITNESS WHEREOF, I have hereunto set my hand this 2nd day of November, 2021, at Danielson, Connecticut.



Jennifer Still
Licensed Shorthand Reporter and Notary Public
My Commission Expires August 31, 2025
License No. 0000301

Connecticut State
Council on Environmental Quality

(/CEQ)

Current Issue (/CEQ/Environmental-Monitor/Environmental-Monitor/Environmental-Monitor---Current-Issue)
Archives (/CEQ/Environmental-Monitor/Environmental-Monitor-Archives/Environmental-Monitor-Archives)
Publication Dates (/CEQ/Environmental-Monitor/Publication-Dates)
What is CEPA (/OPM/IGPP-MAIN/Responsible-Growth/CEPA/Overview-of-Connecticut-Environmental-Policy-Act)
- CEPA Statutes (/CEQ/Environmental-Monitor/CEPA-Statutes)
- CEPA Regulations (/CEQ/Environmental-Monitor/CEPA-Regulations)
- What is Scoping? (/CEQ/Environmental-Monitor/What-is-Scoping)
- What to Expect at a Scoping Meeting? (/CEQ/Environmental-Monitor/What-to-Expect-at-a-Scoping-Meeting)
- How to Request a Public Scoping Meeting (/CEQ/Environmental-Monitor/How-to-Request-a-Public-Scoping-Meeting)
Guide to the State Lands Transfer Process (/CEQ/Environmental-Monitor/State-Lands-Transfer-Process)

Search Council on Environmental Quality



December 7, 2021

Scoping Notice

1. Notice of Scoping for Mirror Lake Improvements at the University of Connecticut, Mansfield.
2. Notice of Scoping for South Campus Residence Hall at the University of Connecticut, Mansfield
3. **NEW!** Notice of Scoping for Kensington State Fish Hatchery Solar Project, Berlin.
4. **NEW!** Notice of Scoping for State of Connecticut Department of Correction Solar Projects at Cheshire.
5. **NEW!** Notice of Scoping for State of Connecticut Department of Correction Solar Projects at Enfield/Somers.

Scoping Notice - Post-Scoping Notice (Need More Time)

No notice for additional time has been submitted for publication in this edition.

Post-Scoping Notice

1. **NEW!** Post-Scoping Notice for Ox Brook Flood Control Master Plan, Bridgeport.
2. **NEW!** Post-Scoping Notice for Replacement of Stiles Bridge - Route 191 over Scantic River, East Windsor.

The ground mounted PV system of Osborn is proposed to be built on previously farmed land located on the North West side of Osborn Correctional Institution. This PV system consists of approximately 4,830 solar panels with a capacity of approximately 1.8 MW. The total area of this PV system is roughly 5.7 acres. This proposed location is roughly 65 LF East of a grassland bird mitigation area.

Project Maps: Osborn Solar Array Map (-/media/6411F5DCEC714B668FB50324F0A5D6D2.ashx), Willard Solar Array Map (-/media/4C19CF3CC96F452B9422CDE1EBB337A6.ashx), Robinson Solar Array Map A (-/media/AB49A9FEAB394098B443C2FE7D0A02C5.ashx), Robinson Solar Array Map B (-/media/173A4F1B44CB488F8C687DFC5CEE91C0.ashx), Enfield Solar Array Map (-/media/156CFBD70699457B9B30C0E803C64B5E.ashx), Enfield Overview (-/media/6677CA408C764C2D8FE461C730AA6D2C.ashx).

Written comments from the public are welcomed and will be accepted until the close of business on: **January 6, 2022.**

Any person may ask the sponsoring agency to hold a public scoping meeting by sending such a request to the address below. If a public scoping meeting is requested by 25 or more individuals, or by an association that represents 25 or more members, the sponsoring agency shall schedule a public scoping meeting. Such requests must be made by: **December 17, 2021.**

Written comments, questions and/or requests for a public scoping meeting should be sent to:

Name: Michael Barrera

Agency: Department of Administrative Services

Address: 450 Columbus Boulevard, Suite 1501, Hartford, CT 06103

Phone: 860-713-5267

E-Mail: Michael.Barrera@ct.gov

Inquiries and requests to view and or copy documents, pursuant to the Freedom of Information Act, must be submitted to:

Name: Anthony Campanelli

Agency: Department of Corrections

Address: 24 Wolcott Hill Rd. Wethersfield, CT 06109

E-Mail: Anthony.campanelli@ct.gov

What Happens Next: The Department of Administrative Services will make a determination whether to proceed with preparation of an Environmental Impact Evaluation (EIE) or that the project does not require the preparation of an EIE under the Connecticut Environmental Policy Act (CEPA). A Post-Scoping Notice of its decision will appear in a future edition of the *Environmental Monitor*.

Scoping Notice - Post-Scoping Notice (Need More Time)

If an agency is unable to publish a Post-Scoping Notice within six months after the comment period for scoping, the agency will publish an update with an action status and an estimate as to when a Post-Scoping Notice will be published. Such an update will be published by the agency at six-month intervals until the Post-Scoping Notice is published. Read More (/CEQ/Environmental-Monitor/CEPA-Regulations#22a-1a-7) (http:)

No notice for additional time has been submitted for publication in this edition.

Post-Scoping Notice

A Post-Scoping Notice is the determination by a sponsoring agency, after publication of a Scoping Notice and consideration of comments received, whether an Environmental Impact Evaluation (EIE) (https://www.cga.ct.gov/current/pub/chap_439.htm#sec_22a-1b) needs to be prepared for a proposed State action. (/CEQ/Environmental-Monitor/CEPA-Regulations)Read More (/CEQ/Environmental-Monitor/CEPA-Regulations#22a-1a-7)

The following Post-Scoping Notices have been submitted for publication in this edition.

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1. Post-Scoping Notice for Ox Brook Flood Control Master Plan

Addresses of Possible Project Location: Various locations along Ox Brook in the City of Bridgeport, extending from Elton Rogers Park at the north end to Lincoln Boulevard at the south end.

Municipality where it would be located: Bridgeport

CEPA Determination: On October 5, 2021, the Department of Energy and Environmental Protection published a **Notice of Scoping (https://portal.ct.gov/CEQ/Environmental-Monitor/Environmental-Monitor-Archives/2021/October-5-2021)** to solicit public comments for this proposed action in the *Environmental Monitor*.

A virtual public scoping meeting was held on Monday, October 18, 2021 at 7:00 pm.

No comments were received during the public comment period or at the Public Scoping Meeting.

The Department of Energy and Environmental Protection has determined to proceed with the preparation of an Environmental Impact Evaluation (EIE).

Agency contact:

Name: Frederick Riese

Agency: Department of Energy and Environmental Protection

Address: 79 Elm Street, Hartford CT 06106

Phone: 860-424-4110

E-Mail: Frederick.Riese@ct.gov

Inquiries and requests to view and or copy documents, pursuant to the Freedom of Information Act, must be submitted to the sponsoring State Agency.

What Happens Next: The Department of Energy and Environmental Protection will prepare an Environmental Impact Evaluation (EIE) under the Connecticut Environmental Policy Act for the proposed action. The EIE is expected to be available for pubic review and comment in the first quarter of 2022. When the EIE is completed, it will be published in a future edition of the *Environmental Monitor*.

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2. Post-Scoping Notice for Replacement of Stiles Bridge - Route 191 over Scantic River

Address of Possible Project Location: Route 191 over Scantic River. Mile point 2.73 of Route 191

Municipality where it would be located: East Windsor

CEPA Determination: On April 20, 2021, the Connecticut Department of Transportation published a **Notice of Scoping (https://portal.ct.gov/CEQ/Environmental-Monitor/Environmental-Monitor-Archives/2021/April-20-2021)** to solicit public comments for this proposed project in the *Environmental Monitor*. A virtual public scoping meeting was held on Tuesday May 4, 2021 and the project comment period concluded on May 21, 2021.

Comments from the **Connecticut Department of Energy and Environmental Protection (CTDEEP) (-/media/F3D2BAD169A84F878D7D9A4D09603403.ashx)** were received during the public comment period, however no comments from the public were received during that time. A synopsis of the comments received and CTDOT's responses are included in the **Environmental Review Checklist (-/media/ABCCA2B392524B16A14405406B903397.ashx)**.

After consideration of the comments received, the CTDOT has determined that the project does not require the preparation of an Environmental Impact Evaluation (EIE) under the Connecticut Environmental Policy Act (CEPA). The agency's conclusion is documented in a **Memo of Findings and Determination (-/media/977938769E7B45A3BC9C8530C2BED12F.ashx)** and the **Environmental Review Checklist (-/media/ABCCA2B392524B16A14405406B903397.ashx)**.

Agency contact (E-Mail Preferred):

Name: Kevin Fleming, Transportation Planner

Agency: Connecticut Department of Transportation, Bureau of Policy and Planning

Address: 2800 Berlin Turnpike, Newington, CT, 06131

Phone: 860-594-2924

E-Mail: Kevin.Fleming@ct.gov

Inquiries and requests to view and or copy documents, pursuant to the Freedom of Information Act, must be submitted to the sponsoring State Agency.

Name: Ms. Alice M. Sexton

Appendix C – Distribution List

DISTRIBUTION LIST

Note: for those recipients with email addresses identified, EIE copies were transmitted electronically via a link, for all others paper copies were submitted. Paper copies will be provided upon request.

U.S. Army Corps of Engineers
New England District, Regulatory Division
696 Virginia Road
Concord, MA 01742-2751
Attention: Kevin Kotelly
Kevin.r.kotelly@usace.army.mil

State of Connecticut Office of Policy & Management
450 Capitol Avenue
Hartford, CT 06106-1379
Attention: Matthew Pafford

Connecticut Council on Environmental Quality
79 Elm Street
Hartford, CT 06106
Attention: Peter Hearn

State of Connecticut Department of Energy & Environmental Protection
79 Elm Street
Hartford, CT 06106-5127
Attention: Frederick Riese
(hard copy and electronic copy)
Frederick.riese@ct.gov

State of Connecticut Department of Economic & Community Development
State Historic Preservation Office (SHPO)
450 Columbus Boulevard, Suite 5
Hartford, CT 06103
Attention: Catherine Labadia
(hard copy and electronic copy)
Catherine.labadia@ct.gov

MetroCOG
1000 Lafayette Boulevard, 9th floor
Bridgeport, CT 06604
Attention: Matthew Fulda
mfulda@ctmetro.org

The Honorable Marilyn Moore
State Senator, District 22
Legislative Office Building, Room 3300
Hartford, CT 06106-1591
Marilyn.moore@cga.ct.gov

The Honorable Dennis Bradley
State Senator, District 23
Legislative Office Building, Room 3300
Hartford, CT 06106-1591
Dennis.bradley@cga.ct.gov

The Honorable John (Jack) Hennessy
State Representative, District 127
Legislative Office Building, Room 5002
Hartford, CT 06106-1591
Jack.hennessey@cga.ct.gov

City of Bridgeport Town Clerk
City Hall Room 122
45 Lyon Terrace
Bridgeport, CT 06604
Attn: Charles D. Clemons, Jr., Town Clerk

City of Bridgeport Mayor's Office
Margaret E. Morton Government Center
999 Broad Street
Bridgeport, CT 06604
Attn: Mayor Joseph P. Ganim
mayor@bridgeportct.gov

City of Bridgeport Police Department
300 Congress Street
Bridgeport, CT 06604
Attn: Rebecca Garcia, Acting Chief
bptctpd@bridgeportct.gov

City of Bridgeport Parks Department
7 Quarry Road
Trumbull, CT 06611
Attn: Luis Burgos, Parks & Recreation Manager
Luis.burgos@bridgeportct.gov

City of Bridgeport Engineering Department
City Hall Room 216
45 Lyon Terrace
Bridgeport, CT 06604
Attn: Jon Urquidi, P.E., City Engineer
Jon.urquidi@bridgeportct.gov

City of Bridgeport Office of Emergency Management and Homeland Security
581 North Washington Avenue
Bridgeport, CT 06604
Attn: Scott Appleby, Director of OEMHS
Scott.appleby@bridgeportct.gov

City of Bridgeport Public Facilities
999 Broad Street
Bridgeport, CT 06604
Attn: Craig Nadrizny, Acting Director
Craig.nadrizny@bridgeportct.gov

City of Bridgeport Water Pollution Control Authority
695 Seaview Avenue
Bridgeport, CT 06607
Attn: Lauren McBennett Mappa, P.E., General Mgr.
Lauren.mcbennettmappa@bridgeportct.org

City of Bridgeport Zoning Department
City Hall Room 210
45 Lyon Terrace
Bridgeport, CT 06604
Attn: Dennis Buckley, Zoning Administrator
Dennis.buckley@bridgeportct.gov

City of Bridgeport Office of Planning and Economic Development
999 Broad Street
Bridgeport, CT 06604
Attn: Thomas J. Gill, Director
Thomas.gill@bridgeportct.gov

City of Bridgeport City Council Members
132nd District
Marcus.Brown@bridgeportct.gov
Mary.Brantley@bridgeportct.gov
133rd District
Jeanette.Herron@bridgeportct.gov
Aikeem.Boyd@bridgeportct.gov
134th District
Michelle.Lyons@bridgeportct.gov
AmyMarie.Vizzo-Paniccia@bridgeportct.gov
135th District
Mary.McBride-Lee@bridgeportct.gov
Rosalina.Roman-Christy@bridgeportct.gov

City of Bridgeport Public Library - North Branch
3455 Madison Avenue
Bridgeport, CT 06606

Lake Forest Association
424 Frenchtown Road
Bridgeport, CT 06606
Attn: Ursula Meyer, Secretary
Ursulameyer111@gmail.com

Appendix D – Phase IA Report

Phase IA Archaeological Assessment Survey/Historic Resources Survey

Ox Brook Flood Control Master Plan Environmental Impact Evaluation

Bridgeport, Connecticut

Prepared for

GZA GeoEnvironmental, Inc.
1350 Main Street, Suite 1400
Springfield, Massachusetts 01103

By

Archaeological and Historical Services, Inc.
569 Middle Turnpike
Storrs, Connecticut 06268

For submission to

City of Bridgeport

Authors:

James Sexton, Ph.D.

Ross K. Harper, Ph.D.

DRAFT: November 30, 2021
FINAL: December 14, 2021

AHS CULTURAL RESOURCE MANAGEMENT

Abstract and Management Summary

An archaeological and historical resource assessment survey of the Ox Brook Flood Control Project Master Plan was completed under the Connecticut Environmental Protection Act and in accordance with the *Environmental Review Primer for Connecticut's Archaeological Resources* and the Secretary of Interior's *Guidelines of Archaeology and Historic Preservation*. Over 200 structures more than 45 years old are in the Area of Potential Effects (APE). The vast majority date to the 20th century, and none of the buildings were assessed as eligible for listing in the State or National Registers of Historic Places (S/NRHP) because of issues relating to integrity.

Only one historic resource was assessed as potentially eligible for listing in the SRHP: the Ox Stream Reservoir/Bridgeport Hydraulic Company Dam in Elton Rogers Park. The stone and earthen dam, although no longer functional, is a locally significant example of water system engineering, and helped Bridgeport continue its rapid expansion during the 19th and early 20th centuries by providing drinking water and water for firefighting. It retains integrity of location, setting, materials, workmanship, feeling and association.

No areas of archaeological sensitivity are present in the APE, which is characterized as highly landscaped and disturbed. The portions of the APE in Elton Rogers Park have been pervasively disturbed and retain no integrity. Outside of the APE, the Park appears to retain integrity.

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1. Introduction and Scope of Work

1.1 INTRODUCTION

The City of Bridgeport, in collaboration with the Connecticut Department of Energy and Environmental Protection (CTDEEP), is undertaking an Environmental Impact Evaluation (EIE) for a proposed flood control project master plan for the Ox Brook Flood Control Project in Bridgeport, Connecticut (Figure 1). Ox Brook flows through the western portion of Bridgeport. Due to bank encroachment and significant development, the areas around the brook are subject to flooding from small storm events. Streets, structures and property, both public and private, are impacted during periods of heavy rains or snow melt. Several drainage studies have been conducted on the area dating back to the 1970s in an effort to determine a long-term flood control solution. Current plans call for a phased approach to solving the problem, with six different phases (Figure 2) indicated:

Phase 1: Construction of a storage impoundment within Elton Rogers Park, via rehabilitation of the existing dam and construction of two dikes within the park property, to provide storage and reduce the peak flow discharged to Ox Brook.

Phase 2: Three main components: (1) construction of a detention pond for storage within Svihra Park with an 18-inch outlet pipe to Island Brook, (2) construction of 3,850 linear feet of 9-x 5-foot box culvert in Wayne Street, Bronx Avenue, and Hunting Street, to divert Ox Brook flows to the new detention area, and (3) construction of a 12-x 5-foot box culvert to reroute a segment of Ox Brook from a point approximately 100 feet south of Rocton Avenue along Amsterdam Avenue, through several backyards, down Tremont Avenue to Wayne Street to Quince Street. From Quince Street, a 60-inch-diameter pipe will discharge flow back to the existing Ox Brook channel. The remainder of the flow would be discharged to the 9-x 5-foot box culvert at Wayne Street. The existing Ox Brook channel in the affected reach would remain in place to convey local runoff.

Phase 3: Channel and crossing improvements from Lincoln Boulevard upstream to Quince Street. Open channel segments would be improved to either trapezoidal or rectangular cross-sections within this reach. Five street crossings would be improved with box culverts.

Phase 4: Channel and crossing improvements from Rocton Avenue to Burnsford Avenue. Open channel segments will be improved to either trapezoidal or rectangular cross-sections within this reach. The culvert beneath Burnsford Avenue would be replaced. Three additional crossings would be improved with larger diameter culverts.

Phase 5: Channel and crossing upgrades from Burnsford Avenue upstream to Lourmel Street. The existing open channel segment between Burnsford Avenue and Stoehrs Place would be improved to a trapezoidal cross-section. Between Lourmel Street and Stoehrs Place, the existing brook is piped and improved sections will be installed, ranging in size from 54 inches to 84 inches in diameter.

Phase 6: Construction of the Island Brook diversion to the Elton Rogers Park storage area. This will consist of approximately 650 linear feet of 10-feet x 3-feet box culvert in Old Town Road. This phase would also include the construction of an 18-inch pipe discharging flow from the dam to Ox Brook at Lourmel Street.

Because CTDEEP will provide funding for the project, the project must comply with the Connecticut Environmental Policy Act (CEPA), which requires that state projects be evaluated concerning "the disruption or alteration of a historic, architectural, or archaeological resource or its setting." Properties subject to CEPA include those listed in or eligible for listing in the National Register of Historic Places (NRHP) or State Register of Historic Places (SRHP). The Connecticut State Historic Preservation Office (CTSHPO) is a mandated review agency under CEPA, and CEPA compliance requires preparation of an EIE. An archaeological and historical resource assessment survey of the Ox Brook Flood Control Project Master Plan was completed under the Connecticut Environmental Protection Act and in accordance with the *Environmental Review Primer for Connecticut's Archaeological Resources* and the Secretary of Interior's *Guidelines of Archaeology and Historic Preservation*.

This report presents the results of documentary research, field inspections, and evaluation of historic properties that may be affected by the various proposed project alternatives. The report was prepared by Archaeological and Historical Services, Inc. (AHS) under contract to GZA GeoEnvironmental, Inc., the project's consulting engineer. The Phase IA Archaeological and Historical Resource Assessment Survey that forms the basis of this report was conducted in accordance with The Secretary of the Interior's Standards and Guidelines for Identification for Archaeology and Historic Preservation and The Secretary of the Interior's Standards and Guidelines for Evaluation (1983 and ongoing revisions). The survey was confined to an Area of Potential Effects (APE) (Figures 1 and 2). AHS personnel inspected the APE several times during November 2021. Thorough surveys of the project areas were conducted on foot from the public right-of-way, resulting in field notes and over 500 photographs of potentially historic properties. Areas of archaeological sensitivity were noted based on documentary data and pedestrian survey. No subsurface testing was conducted beyond a series of one-inch-diameter hand-powered soil probes in select areas.

The results of the historic properties evaluation will be summarized in an EIE prepared as part of the Ox Brook Flood Control Project under CEPA. This technical report will be appended to the EIE.

The conclusions and recommendations herein are the opinion of the historic preservation consultant. Actual determinations of NRHP and SRHP eligibility and assessment of effects are properly part of the ongoing consultative process between CTDEEP and CTSHPO and will be further developed as the project progresses.

This report is organized as follows: Section 2 presents the methodology used; Section 3 provides environmental, pre-colonial and contact period background context of the APE; Section 4 provides a historical background context; Section 5 provides the results of the archaeological survey, including Existing Conditions and Potential Effects; Section 6 addresses the historic resources, inclusive of Existing Conditions and Potential Effects; and Section 7 presents conclusions and recommendations.

1.2 DELINEATION OF THE AREA OF POTENTIAL EFFECTS

The Area of Potential Effects (APE) is delineated as the Project Area on the maps of the Ox Brook Flood Control Master Plan. The APE is defined as a 25-foot buffer to each side of the center line of the proposed work; at street intersections the buffer was increased to 50 feet on each side of the centerline (Figures 3a-3h). It runs from Machabowski and Frenchtown Roads in Trumbull, before crossing into Bridgeport and running through Elton Rogers Park, south to the intersection of Quince, Manhattan, and Wayne

Streets, where the project splits in two. One section runs south down Wayne Street to Bronx Avenue and then east to Svihra Park. The second section runs south from Quince Street to Madison Terrace, where it turns southwest to a point near the north end of Lincoln Boulevard. This area was chosen to allow for the assessment of potential direct and indirect effects related to the project.

Direct effects are those that physically alter historic resources, such as removing or altering an existing resource and diminishing its integrity of location, design, setting, materials, or workmanship. Physical impact to subsurface archaeological sites is also a direct effect. Indirect effects include intrusions posed by new construction that alter the setting or feeling of a resource. The most common indirect effect comes from visual changes to the surroundings of a resources; other types of indirect effects could include noise or vibrations that would change the resource's setting or feeling. The potential indirect visual effects are twofold: a) the loss of elements that are an important part of the properties' settings and historical character, and b) the introduction of incompatible modern construction that would diminish the properties' integrity of setting or feeling. Because the project involves work either underground or in existing culverts the potential visibility of the new work is limited.

No assessment of construction easement, staging, storage and access areas, noise and/or vibration effects on State or National Register-listed or eligible resources could be made, as these are not yet known. As the design process moves forward, additional potential impacts to historic properties may be noted.

1.3 PROJECT PERSONNEL

Historian James Sexton conducted the historical background research and historic (above-ground) resource identification, field-checking historic resources in the APE and photographing them to document existing conditions. Sexton also evaluated the historic resources for potential listing in the NRHP and SRHP. Senior Archaeologist Ross Harper conducted the archaeological and environmental background research and archaeological sensitivity assessment. AHS President Mary Harper served as project manager.

2. Methodology

2.1 HISTORICAL RESOURCES RESEARCH

In order to establish an overall historical context and help in the identification of historic (i.e., above-ground) resources, AHS consulted general published histories of Bridgeport such as Danenberg (1936), Waldo (1897), and Orcutt (1886). Additional research was undertaken to establish the historic contexts for evaluating resources in the project vicinity, including materials in the CTSHPO inventory files, the Connecticut Historical Society's digital collection, and online historic map and newspaper collections. AHS also assembled a series of historic maps of the project area (Appendix C), and searched existing NRHP and SRHP forms for individual properties and districts.

Fieldwork was undertaken based on a GIS-based version of the APE which was compared to the City of Bridgeport's GIS based plat maps. Properties identified as intersecting the APE were identified, and those which had been constructed prior to 1976 were included as potential historic properties and subject to field review. (A cut-off age of 45 years old or older, rather than the National Register of Historic Places benchmark of 50 years old or older, was chosen because of the expected duration of the project.) All properties that met this criteria were photographed and assessor database information was reviewed. These are presented in Table 1.

2.2 ARCHAEOLOGICAL AND CULTURAL RESOURCE RESEARCH

AHS researched the files of recorded archaeological sites at the Office of State Archaeology (OSA) and CTSHPO. Relevant cultural resource management reports and archaeological publications were reviewed to develop pre-colonial Native American and historic-period contexts preparatory to assessing the potential for significant buried archaeological sites to be present in the APE. Environmental sources on hydrology, geology and soils were reviewed to establish an understanding of the natural environment that existed prior to urbanization and to also help understand the level of disturbance in the APE.

Historical maps, local histories and primary documents were researched to establish a historic-period context and aid in identifying archaeologically sensitive areas in the APE parcels. Aerial photographs and windshield survey helped refine AHS's assessment of archaeological sensitivity. Subsurface sampling in the form of one-inch hand-powered soil cores was conducted in parts of the APE in the assessment survey.

2.3 EVALUATION OF SIGNIFICANCE

No historic resources within or adjacent to the APE are currently listed in the NRHP or SRHP. Resources identified by the project historians within the APE were evaluated for their potential eligibility for listing in the NRHP and SRHP by applying the respective criteria of significance. At this time, archaeological sites are excluded from the eligibility evaluation because no subsurface testing was possible to ascertain their presence or eligibility nor were any archaeological remnants of sites, such as mill ruins, observed.

2.3.1 National Register of Historic Places Criteria of Significance

The criteria for listing in the NHRP are generally used in historic and archaeological surveys as a bar metric for assessing the significance of historic, archaeological and cultural resources. Resources determined by CTSHPO or a federal agency to be NRHP-eligible are provided a measure of protection from federally funded or federally-permitted projects in that impacts to them must be avoided, minimized or mitigated. Such resources are also accorded state protection under CEPA.

The National Register criteria of significance state the following:

The quality of significance in American history, architecture, archaeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and:

Criterion A	That are associated with events that have made a significant contribution to the broad patterns of our history; or
Criterion B	That are associated with the lives of persons significant in our past; or
Criterion C	That embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
Criterion D	That have yielded or may be likely to yield, information important in history or prehistory.

Resources may qualify under one or more of the National Register eligibility criteria.

The NRHP generally excludes from consideration several types of properties. Besides those less than 50 years old, excluded categories include cemeteries, commemorative properties, resources that have been moved, and religious properties. Such properties can qualify by meeting one or more Criteria Considerations, however. For example, a cemetery may qualify if its overall layout typifies 19th-century cemetery landscape architecture or if the distinctive design of most of its markers illuminates the history of funerary art. Similarly, a church could qualify if its architecture were exceptional.

2.3.2 National Register of Historic Places Integrity

Historic properties were also evaluated for their integrity, which is the ability of a resource to visually convey its significance. The seven aspects of integrity are: location, design, setting, materials, workmanship, feeling, and association. Most historic resources have been altered from their original appearance over time, but the question of integrity hinges on the judgment of whether the resource as it exists today retains enough integrity to be able to convey its historical or architectural significance. The property must still possess several, if not most, aspects of the historical identity for which it is significant. The NRHP defines these aspects of integrity as follows:

1. Location is the place where the historic property was constructed or the place where the historic event occurred.

2. Design is the combination of elements that create the form, plan, space, structure, and style of a property.
3. Setting is the physical environment of a historic property.
4. Materials are the physical elements that were combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property.
5. Workmanship is the physical evidence of the crafts of a particular culture or people during any given period in history or prehistory.
6. Feeling is a property's expression of the aesthetic or historic sense of a particular period of time.
7. Association is the direct link between an important historic event or person and a historic property.

2.3.3 State Register of Historic Places

Properties listed in the NRHP are automatically listed in the Connecticut SRHP; properties can also be listed in just the Connecticut SRHP without listing in the NRHP. The criteria for listing in the SRHP are similar to Criteria A, C, and D of the NRHP. The SRHP numbers its criteria: SRHP Criterion 1 combines NRHP Criteria A and B, SRHP Criterion 2 is the same as NRHP Criterion C, and SRHP Criterion 3 is the same as NRHP Criterion D. The exclusions associated with the NRHP, however, do not apply to SRHP eligibility, so churches, cemeteries, moved properties, etc. that might be ineligible for the NRHP could qualify for the SRHP.

3. Environmental, Pre-Colonial and Contact Period Context

3.1 ENVIRONMENTAL BACKGROUND

The purpose of this section is to provide general information on the environmental context of the APE. Humans, like most species, are sensitive to variations in habitat, and can be generally expected to settle in areas providing both reliable and predictable resources. While climate change over the course of the last 11,000 years has repeatedly transformed the environment in the Northeast, many basic characteristics of the landscape have remained relatively stable. Local geology and topography present important controls on the development and potential organization of habitats and provide archaeologists with one means of identifying enduring features of the landscape around which people in the past would have organized themselves.

3.1.1 Physiography

The APE is located in the Coastal Slope region of Connecticut (Bell 1985). The coastal slope commences about 12 miles north of the coast, where the topography begins to drop steeply (about 50 feet per mile) to the coast. The Coastal Slope represents a portion of southern New England that was once covered by loose sediments from the former Coastal Plain. Those sediments protected the bedrock from eroding as quickly as surrounding areas. Erosion eventually washed these sediments away, but this period of protection spared the bedrock of the Coastal Slope from the deep erosion that occurred further inland. This process resulted in a gentler topography, which increased the agricultural potential of the Coastal Slope relative to upland areas and contributed to the intensive Woodland period (agricultural) and early European settlement of the Connecticut coast.

3.1.2 Bedrock and Surficial Geology

Bridgeport lies within the volcanic belt of Connecticut (one of three belts – carbonate, clastic, and volcanic). The volcanic belt is composed of metamorphic schists and granites that formed during the Ordovician period, between 500 and 400 million years ago.

Approximately 21,000 years ago, Connecticut and Long Island Sound were covered with glacial ice that was about a mile thick. The glacial ice continually moved south, picking up loose material on the ground surface. As the glacier melted, the material it had collected was re-deposited, creating a long east-west moraine. As the climate warmed, the glacier retreated to the north. About 17,500 years ago, a temporary cooling of the climate caused the ice front to cease its northward movement. The ice front halted along a line that ran offshore from the Bridgeport project area, forming the Captain Islands-Norwalk Islands moraine.

The water released from the melting glacier washed large quantities of finer-grained sediments into low-lying areas resulting in sand and gravel deposits in the Connecticut valleys. In higher and flatter areas, the glacier deposited till, a mixture of variously-sized sediments. As the glacier retreated, it left behind a series

of outwash features, including drumlins, eskers, and kettle lakes and kames. The majority of the APE is overlain in fine-grained outwash sediments of finely bedded sand layers indicative of former deltaic deposits, and artificial fill deposits. Recent work in a similar coastal environment in Norwalk has shown that artificial fill units mapped on the statewide surficial and quaternary geologic maps are often incorrect and that intact soil sequences may remain in developed coastal settings (Leslie and Ouimet 2017).

3.1.3 Soils

The soils in the APE are predominantly associated with as Urban Land, Udorthents, and Udorthent-Urban Land complex throughout most of the APE south of the Elton G. Rogers Woodland Park. This area is dominated by dense urban development. Udorthent and Urban-land complex soils are associated with excavated and filled lands, generally in areas where the original soil has been covered with impervious surfaces like asphalt or concrete. Urban land soils can also refer to areas where the natural soils have been cut away or covered with fill deposits (USDA 2015). In areas with these designations, natural soil sequences may sometimes be found in vacant lots, lawns, wooded areas, parks, and other undeveloped areas interspersed between roads and buildings, and some are capped by roads, sidewalks, etc. Therefore, the Urban Land or Udorthent complex designation does not necessarily indicate pervasive disturbance. The potential for intact archaeological resources remains in undeveloped areas and beneath developed areas. Most of Ox Brook within the APE and south of the Ox Brook Dam in Elton Rogers Park has been culverted and buried beneath the streets, sidewalks and house lots. Ox Brook is still intermittently exposed in short sections in a few areas. Soils within Elton G. Rogers Woodland Park APE are dominated by Hollis-Chatfield-Rock outcrop complex, 3 to 15 percent slopes, with steep elevations in some areas. These areas a generally associated with lower archaeological sensitivity due to the dense surficial stones, ledge, and slope.

3.1.4 Ecological Context

The APE is located near the Connecticut coast of Long Island Sound, and west and parallel to the Pequonnock River Valley (Figures 1 and 2). The Pequonnock River is an approximately 17-mile-long river, which originates in Monroe and flows in a generally south-oriented direction until emptying into the Long Island Sound at Bridgeport Harbor. The Pequonnock River has one main tributary, the West Branch of the Pequonnock River, which also originates in Monroe. Historically, the Pequonnock River hosted the southernmost Atlantic salmon (Salmo salmar) spawning runs, which would have provided an important spring food source for pre-colonial Native Americans.

The APE is associated with the northern section of Ox Brook, which now appears to originate in Elton G. Rogers Woodland Park and flows southerly into the Rooster River. The Rooster River, in turn, becomes the Ash Creek, which empties into Long Island Sound. The historic watercourse of Ox Brook is not precisely known, as the brook does not appear complete on historic or modern maps as large sections have been culverted and buried and some sections appear to have been physically rerouted.

3.2 PRE-COLONIAL NATIVE AMERICAN BACKGROUND

Although a relatively large number of Native American archaeological sites have been identified in coastal Connecticut, the understanding of pre-colonial cultures in the area remains incomplete. Only a small percentage of the recorded sites along the coast have undergone professional archaeological investigations. Many of the sites were recorded and excavated by avocational archaeologists and collectors and many others were destroyed by extensive modern development of coastal areas. Information from several important sites, investigated by avocational and/or professional archaeologists (Coffin 1937, 1938, 1940, 1946, 1951; Glynn 1953; Lavin 1988; Praus 1942; Russell 1942), has contributed to the understanding of Native lifeways in coastal areas. Important coastal sites include Grannis Island (Site 93-3) in New Haven Harbor (Glynn 1953; Lavin 1988), the Old Lyme Shell Heap (Lavin 1988), Mago Point in Waterford (McBride 1984b), Fort Shantok and Shantok Cove in Montville (Salwen 1966; Salwen and Ottesen 1972; Williams 1972), the Thomas Site in Groton (Butler 1946), and the Davis Farm Site in Stonington. A number of regional archaeological surveys have also been conducted in coastal areas of Connecticut and have provided a great deal of information on the nature and distribution of archaeological sites in these areas (McBride 1984a).

Below is a summary of the regional and local culture history, based on the current local archaeological record for Connecticut and the greater Northeast. The era predating the arrival of Europeans, which lasted roughly 11,000 years, is subdivided into several major periods coinciding with broad technological and settlement patterns observed in the archaeological record.

3.2.1 Paleoindian Period (11,000-9,500 B.P.)

In the Northeast, the Paleoindian Period dates from 11,000 to 9,500 years before present (B.P.), as measured in radiocarbon years, and coincides with the final glacial period, known as the Younger Dryas. Following a brief warming trend in the region, the Younger Dryas marked a return to colder, glacial conditions and ice-sheet re-expansion in portions of eastern North America (McWeeney 1999).

The earliest archaeological evidence for human occupation in New England dates to approximately 11,000 B.P. (Spiess et al. 1998) and in Connecticut to around 10,200 B.P. (Moeller 1980; Jones 1999). Paleoindian sites are characterized by distinctive lithic tools kits that include fluted points and unifacial tools such as side- and end-scrapers. Data reflecting Paleoindian land-use patterns and subsistence activities in the Northeast is relatively scarce (Spiess et al. 1998). It is assumed that Paleoindian people exploited a wide range of food resources, including large and small game, fish, wild plant foods, and perhaps extinct megafauna (Meltzer 1988; Jones 1998). Most archaeologists also believe that caribou played a significant, if seasonal, role in the Paleoindian subsistence strategy. Settlement patterns during this period are poorly understood. The range of identified sites includes large base camps, small residential camps, and small, task-specific loci. Taken all together, the archaeological evidence suggests a settlement system based on small, highly mobile social groups exploiting dispersed seasonally available resources.

Few intact Paleoindian sites have been found in Connecticut. According to former State Archaeologist Nicholas Bellantoni, about 50 fluted points have been recovered as isolated finds across Connecticut (Bellantoni 1995), but only two sites have been investigated and published in detail: the Templeton Site in Washington (Moeller 1980, 1984; Singer 2017) and the Hidden Creek Site on the Mashantucket Pequot Reservation in Ledyard (Jones 1997). More recently, excavations were conducted at the Ohomowauke

Paleoindian Site, which is also located on the Mashantucket Pequot reservation, indicating repeated use of wetlands by Paleoindians (Singer 2017). A handful of other sites have received more cursory attention. In 2005, a probable Paleoindian component was identified in the Route 7/15 Interchange in Norwalk (Jones et al. 2005). The scarcity of identified Paleoindian sites suggests a low population density during this period. The small size of most Paleoindian sites and the high degree of landscape disturbance over the past 10,000 years likely contribute to poor site visibility. And, rising sea levels have likely inundated early sites, which are now offshore.

3.2.2 Archaic Period (9,500-2,700 B.P.)

The Archaic Period dates from 9,500 to 2,700 B.P. in the Northeast and it marks a time of dynamic and shifting subsistence and settlement patterns, but the general trend is one of generalist hunter-gatherer populations utilizing a variety of seasonally available resources. The period is subdivided into the Early, Middle and Late Archaic periods on the basis of associated changes in environment, projectile point styles, and inferred adaptations (Snow 1980; McBride 1984a). Each sub-period is discussed briefly below.

3.2.2.1 The Early Archaic Period (9,500-8,000 B.P.)

Pollen evidence from swamp cores indicates a gradual warming and drying trend beginning around 10,000 B.P. (McWeeney 1999). By this time Pleistocene megafauna had been replaced by modern cool-temperate game species such as moose, muskrat, and beaver. Deer populations likely increased in abundance at the end of this period, when oak began to dominate upland forests. As the climate stabilized, plant and animal resources may have become more abundant and predictable, enabling Early Archaic populations to exploit a wider range of seasonal resources. Early Archaic sites are poorly represented in the regional archaeological record and this likely reflects continued low population densities. The dearth of Early Archaic sites may be due in part to changing environmental conditions which have deeply buried, inundated, or destroyed many early sites, or to the difficulty of recognizing some Early Archaic assemblages (Funk 1996; Jones 1998; Forrest 1999).

Archaeologists have recovered Early Archaic stone tool assemblages from several sites in the Northeast. The recovered data suggest that this period can be characterized by a number of distinct traditions. The most poorly understood period, that between 9,500 and 9,000 B.P., appears to reflect both local Late Paleoindian and intrusive southern Piedmont Tradition Early Archaic influences. A quartz lithic industry in which projectile points are extremely rare occurs locally between roughly 9,000 and 8,500 B.P. The Sandy Hill Site on the Mashantucket Pequot Reservation demonstrates this pattern (Forrest 1999, Jones and Forrest 2003). The site represents a local expression of a much broader techno-complex referred to as the Gulf of Maine Archaic Tradition (Robinson et al. 1992). Sandy Hill produced evidence of multiple semi-subterranean living structures and a variety of plant-food remains, including abundant cattail roots and hazelnuts. More recently, Jones and Leslie (2017) presented evidence for a Gulf of Maine Archaic Tradition site in Plainville, Massachusetts, dated to approximately 8,700 B.P., uncalibrated.

Archaeological evidence indicates a shift in Early Archaic period technology about 8,500 years ago, marked by the arrival of an apparently intrusive temperate forest-adapted culture that utilized bifurcate-based projectile points typically manufactured from non-regional materials (Jones 1998, 1999). The Dill Farm Site in East Haddam is one of the best-documented bifurcate sites in Connecticut (Pfeiffer 1986). Archaeological investigations at this site identified cooking/refuse features, quartz flakes, retouched tools,

bifurcate-based projectile points, and subsistence remains, including charred nuts and mammal bone associated with a radiocarbon date of 8,560 +/- 270 B.P. Bifurcate points are documented throughout the state, though most appear to represent isolated finds without apparent associated artifacts. Bifurcate points are commonly manufactured from rhyolite probably originating from a Boston Basin source or from Hudson Valley chert, but few are made from local lithic materials such as quartzite.

3.2.2.2 The Middle Archaic Period (8,000-6,000 B.P.)

Based on pollen evidence, the climate became warmer and drier during the Middle Archaic period and alluvial terraces developed along the state's major river systems (Jones 1999; Jones et al. 2008). This period marks the establishment of most modern nut tree species, which provided a new and abundant food resource for both human foragers and game animals such as bear, deer, and turkey. Evidence of Middle Archaic period occupation in Connecticut is more widely documented than for the preceding periods and it suggests adaptation to local resources during a period of population increase (McBride 1984a; Jones 1999). Archaeological evidence of grooved axes suggests that wood became an increasingly important raw material during the Middle Archaic, while the presence of pebble net-sinkers and plummets on some regional sites implies a growing reliance on marine and riverine resources (Dincauze 1976; Snow 1980). Despite their relative abundance, sites in Connecticut have yielded limited information on Middle Archaic subsistence and land-use patterns (Jones 1999). Archaeological assemblages are characterized by the presence of Neville and Stark projectile points and large flake tools usually manufactured from local materials such as quartzite. The Middle Archaic settlement pattern appears to have been seasonally oriented toward large upland interior wetlands (McBride 1984a and b; Jones 1999) and the data suggest seasonal re-use of such locales over long periods of time. The Dill Farm Site and the sites around Great Cedar Swamp on the Mashantucket Pequot Reservation reflect this pattern (Jones 1999, 2004). The limited number of period coastal and riverine sites may be due to rising sea levels that have resulted in deep alluvial burial.

3.2.2.3 Late Archaic Period (6,000-2,700 B.P.)

The Late Archaic period in the Northeast is characterized by an essentially modern distribution of plant and animal populations. Based on archaeological evidence for population increase, burial ritual, and long-distance exchange networks, the Late Archaic is often considered a time of cultural florescence (Dincauze 1975; Snow 1980; Ritchie 1994; Cassedy 1999). This period is one of the best-documented temporal sequences in southern New England, and is characterized by three major cultural traditions: the Laurentian (ca. 5,500-4,500 B.P.), the Narrow-stemmed (ca. 4,500-3,500 B.P.), and the Terminal Archaic (ca. 3,800-2,700 B.P.). Late Archaic sites are common throughout the state, although the period between ca. 6,000 and 5,000 B.P. remains poorly documented. During most of this period, settlement strategies revolved around large, seasonally revisited settlements located in riverine areas and along large wetland terraces, and smaller, more temporary special-purpose sites in the interior and uplands (Ritchie 1969; McBride 1984a and b; Cassedy 1997, 1999). The nature and distribution of sites suggest aggregation during summer months, with seasonal dispersal into smaller groups during the cold weather (McBride and Dewar 1981). In general, the Late Archaic appears to represent a continuation of the land-use and resource-acquisition patterns observed during the Middle Archaic.

The Laurentian Tradition (Ritchie 1965) was originally thought to reflect a hunting and fishing culture with origins in the upper St. Lawrence Valley. In Connecticut, its local manifestations may simply represent the adoption of Laurentian technological traits by local residents (Hoffman 1990; Ives 2009). The settlement

pattern appears to reflect a central-based wandering pattern (sensu Beardsley et al. 1956) in which numerous small communities exploited a wide variety of settings (Snow 1980: 230). In southern New England, Laurentian sites are more common in the interior than along the coast. This pattern suggests that Laurentian groups were primarily adapted to upland and riverine environments, with more limited exploitation of coastal areas on a seasonal basis (e.g., Snow 1980, Kingsley and Roulette 1990). Laurentian sites are characterized by a distinctive tool kit which includes diagnostic side-notched and corner-notched projectile points, often found in association with adzes, axes, gouges, ulus, and slate knives.

The transition to the Small- or Narrow-stem phase of the Late Archaic includes notable changes in lithic raw material use. During this phase, the use of quartzite declines significantly and quartz becomes by far the most commonly used material. This pattern has promoted the argument that population increase at this time restricted the availability of even regionally available resources like quartzite. The Narrow-stem phase is characterized by the development of a new quartz cobble technology that focused on the reduction of cobble cores into useful blanks for the production of projectile points, especially the narrow-stemmed forms. It is not known whether restrictions on raw material access drove the development of this new technology or if the technology drove raw material selection. Archaeologically identifiable features are more common on sites from this period and include broad fire-cracked-rock pavements, earth ovens, and some fire-cracked-rock hearths.

Narrow-stemmed phase sites are the most abundant of any period represented in Connecticut. The more notable Narrow Stemmed sites in Connecticut's coastal zones include the Archaic Midden Site in Haddam and the Grannis Island Site in New Haven (Glynn 1953; Lavin 1988). The Archaic Midden Site has been partially submerged by rising sea levels and is only visible at low tide. This may be typical of many Late Archaic sites in the region, indicating the potential of encountering sites under salt marshes or in coves or bays. Recent research interprets the Cove River Site in West Haven to represent a seasonal base camp associated with the Narrow Stemmed Tradition (Cuzzone et al. 2009).

The Terminal Archaic period appears to mark a transition in settlement and perhaps subsistence strategies (Dincauze 1975). A number of technological innovations appear during this period, including the manufacture and use of steatite bowls and the rare production of cord-marked and grit-tempered pottery. The use of quartz declined during this period, while the exploitation of regionally available quartzites increased. Imported chert and other non-local lithics such as argillite, rhyolite, and felsite are found in high proportions in Terminal Archaic lithic assemblages. This pattern appears to indicate renewed social and economic contact with a broader region. Fire-cracked-rock features are often associated with this period and likely reflect intensive food-processing activities. Identified site locations suggest that settlement was focused on expansive lacustrine and wetland areas and upper river terraces, rather than floodplains (McBride and Dewar 1981). The interior and uplands appear to have been less extensively used during this period (McBride 1984a and b), though this may be a reflection of small, difficult-to-locate logistical hunting sites. The Terminal Archaic period also marks the appearance of human cremation burials (Dincauze 1968; Robinson 1996; Leveillee 1999). These cultural attributes may represent intrusive peoples or ideas, but the debate over the possibility of migration remains active (see, for example, Robinson 1996: 38-39).

3.2.3 The Woodland Period (2,700-450B.P.)

The Woodland period is characterized by the increased use of clay pottery, celts, and exotic raw materials, as well as the introduction of bow-and-arrow technology, smoking pipes and horticulture (Lavin and Russell 1984; Feder 1984, 1999). An increase in site size and complexity suggests a trend toward greater sedentism and social complexity, probably the result of a growth in the population base, particularly at the end of this period (McBride and Dewar 1987; Lavin 1988; Jones 2002). The Woodland Period has been traditionally subdivided into Early, Middle, and Late periods on the basis of ceramic styles, settlement and subsistence patterns, and political and social developments (Ritchie 1969, 1994; Snow 1980; Lavin and Russell 1984). Despite these changes, most recent scholars see the Woodland as a period well-rooted in the traditions and lifeways of the preceding Archaic period (Feder 1984, 1999).

3.2.3.1 Early Woodland Period (2,700-2,000 B.P.)

Most documented sites in Connecticut containing Early Woodland components are situated along the coast or at the mouths of major rivers such as the Quinnipiac, Connecticut, Thames, and Mystic, although a number of interior upland locations have also been documented.

The Early Woodland period remains poorly understood, and sites from this period are less well-represented in the archaeological record than sites from the preceding phases of the Late Archaic. This leads some to argue for a probable population decline during the Early Woodland (Fiedel 2001). On the other hand, the apparent dearth of Early Woodland sites may simply reflect the biases of site-recognition strategies (Juli and McBride 1984). Direct association of Narrow-stemmed projectile points with Woodland Period radiocarbon-dated contexts (Herbster and Chereau 1999, 2001, 2003; Herbster 2004), as well as the stratigraphic association of Narrow-stemmed points with Woodland types (Lavin and Russell 1984; Cuzzone and Hartenberger 2009), suggest the possibility that Woodland Period assemblages are frequently misidentified as Late Archaic. The observed change in site patterning from the previous periods may also be a reflection of shifting settlement strategies that promoted the formation of larger, but fewer, seasonal aggregation camps (Jones 2002). Research suggests that year-round habitation of some sites was established by the late Early Woodland period (Ceci 1980; Bernstein 1990).

Early Woodland regional complexes are generally characterized by stemmed, tapered, and side-notched (Meadowood) point forms and preforms, often of Onondaga chert; thick, grit-tempered, cord-marked ceramics; tubular stone pipes; burial ritual; and indications of long-distance trade/exchange networks (Lavin and Russell 1984; Juli 1999). It is possible that incipient horticulture focused on native plant species such as goosefoot (Chenopodium sp.) had begun by this time (George 1997). The existence of stone pipes also suggests that tobacco was being traded into the region, if not locally produced, by the Early Woodland.

Despite the rarity of Early Woodland sites, a number of very large, deep pit features attributed to this period have been found across southern New England. These pits may represent nut-storage facilities and clusters of these features could indicate repeated use of nut-gathering locations by families, perhaps with established rights to certain groves. This would represent a break from presumed earlier patterns based on more mobile kin-based social units with relatively open access to local areas (Jones 2002).

3.2.3.2 *Middle Woodland Period (2,000-1,200 B.P.)*

The Middle Woodland Period is characterized by increased diversity in ceramic style and form, continued examples of long-distance exchange (especially of jasper), and at its end, the introduction of tropical cultigens (Dragoo 1976; Snow 1980; Juli 1999). Much of the current knowledge of the Middle Woodland Period in southern New England is extrapolated from Ritchie's (1994) work in New York State. Ritchie noted an increased use of plant foods such as goosefoot (Chenopodium sp.), which he suggested had a substantial impact upon social and settlement patterns. George (1997) reiterated this hypothesis for the Middle Woodland of Connecticut. Ritchie also noted an increase in the frequency and size of storage facilities during the Middle Woodland period, which may reflect a growing trend toward sedentism (Ritchie 1994; Snow 1980). At this time, jasper tool preforms imported from eastern Pennsylvania appear to have been entering the region through broad, formalized exchange networks (Luedtke 1987).

In Connecticut, Middle Woodland sites are relatively rare outside of coastal and near-coastal contexts. Archaeological evidence of settlement patterns suggests an increased frequency of large sites adjacent to wetlands and tidal marshes along the Connecticut River, a decline in large upland occupations, and a corresponding increase in upland temporary camps (McBride 1984a). This pattern may reflect a reduction in residential mobility, likely related to the development, by 2,000 B.P., of modern tidal marshes and estuaries in low-lying riverine areas. The tidal marshes would have supported a wide variety of terrestrial and aquatic animal and plant resources, allowing longer residential stays (McBride 1984a).

3.2.3.3 *Late Woodland Period (1,200-450 B.P.)*

The Late Woodland period is characterized by population aggregation in villages along coastal and riverine locales; more intensive use of maize, beans, and squash; changes in ceramic technology, form, style, and function; the eventual establishment of year-round villages; and the use of the upland-interior areas by small, domestic units or organized task groups on a temporary and short-term basis. The settlement pattern suggests a trend toward intensified settlement in larger villages and hamlets in coastal and riverine areas. It has been hypothesized that these changes can be attributed to the introduction of maize, beans, and squash, but the importance of cultigens in the diet of southern New England groups, especially those with access to coastal resources remains unclear (Ceci 1980; McBride 1984a; McBride and Dewar 1987; Bendremer and Dewar 1993; Ritchie 1994; Chilton 1999). Although sites clearly demonstrate the use of tropical cultigens in the Connecticut River valley, wild plant and animal resources were still a primary component of the aboriginal diet. The use of imported cherts increased over time in the Connecticut River valley, suggesting possible social, economic, and/or political ties to the Hudson Valley region. Affinities in pottery styles also suggest western ties at this end of this period (Feder 1999).

3.3 CONTACT PERIOD NATIVE AMERICAN HISTORY

While the APE today is characterized by industrial and urban development, it has a rich Contact and historic past. Between 1520 and 1650, initial European settlement in southern New England had a significant impact on Native American groups in Connecticut and profoundly altered the pre-Contact geopolitical landscape. In the Late Woodland and early Contact periods, indigenous settlement focused on or adjacent to the floodplains of major rivers and tributaries, reflecting the importance of agricultural activities, fishing, harbors, and access to transportation and communication routes (Pagoulatos 1990). After 1600 AD, contact with Europeans likely catalyzed shifts in settlement and subsistence strategies,

including the intensification of maize agriculture, the hunting and trapping of fur-bearing animals, including beaver, and wampum production. Planting in the spring required a focused, cooperative kin-based effort, while the capture of anadromous fish at waterfalls and choke-points brought together households as it had for millennia. From late summer through winter, small household groups from larger village-based communities continued to use upland areas for hunting, trapping, and gathering. The introduction of a market economy related to the development of a large-scale fur-trading industry led to rapidly shifting alliances and power struggles between the various Native American groups in Connecticut. At the same time, Native communities struggled to maintain traditional lifeways as epidemic diseases decimated populations (Carlson et al 1992). Encroachment by newly arrived European settlers also contributed to the rearrangement of the physical and social landscape.

The explorations of Giovanni da Verrazanno in 1524 and Adriaen Block in 1614 are the most often noted examples of early contact between the region's Native population and Europeans, although it is likely that numerous less well-documented fishermen and traders infiltrated the waters of Long Island Sound and interacted with Native populations throughout the 16th century. For the interior tribes, direct contact with Europeans took longer. By the end of the Pequot War in 1637, however, rapid colonization and sales of land by Native sachems to English colonists were well underway. In the decade that followed, new towns were quickly established and an estimated 20,000 English settled Connecticut during the Great Migration (1629-1642).

At the time of European contact the APE was inhabited by Indigeous people identified as Pequonnocks, a subset of the Paugussett Tribe, a large confederation that occupied southwestern Connecticut roughly from the Saugatuck River to West Haven and north including much of the lower Housatonic River watershed. Wilcoxson (1939) identified a possible Contact-era fortified village, lying somewhere between the Black Rock Cove and Ash Creek (previously referred to as the Uncaway River). This contact-era fort was likely a fortified village, and was located near an "old Indian planting field" and may have held a garrison of 200 warriors during the Pequot War (Wilcoxson 1940). Following the Great Swamp Fight in Fairfield which led to the end of the Pequot War in 1637, the English and their Native allies pursued the Pequots to the mouth of the Pequonnock River, and a small skirmish ensued. This area was eventually sold to the town of Fairfield by the Pequonnocks in 1681 (Wilcoxson 1940). A pre-revolutionary war era map delineates Bridgeport Harbor as "Indian Harbor", reflecting its Pequonnock past (Adams 1928).

Following the end of the Pequot War, English colonists began settling coastal towns in former Pequot lands and in land purchases with other groups. The APE lies within the original town bounds of Stratford and adjacent to the town of Fairfield, which were both settled in 1639. The territory of the Pequonnocks lay between the towns of Fairfield and Stratford, within the current APE. Indigenous populations continued to decline through disease and dispossession, and reservations were established, such as the Mashantucket Pequot in 1666 and the Wangunk in 1673. The Golden Hill Reservation was created by the colonists in 1639, at a sacred spring location now in modern downtown Bridgeport, divesting the Pequonnocks of their land. Many Pequonnocks lived at this reservation, at least early on; Wilcoxson (1940) suggests that over 100 wigwams (houses) and associated peoples were present at the reservation. The Golden Hill Reservation was sold off by a state-appointed overseer in 1802 (Brilvitch 2007). None of the original Indian reservations exist today, all having passed into non-Indian ownership by the mid-19th century.

Consequently, some Native Americans relocated to other Indigenous communities. Others joined, Native Christian communities, and ethnically admixed communities that formed in the state's developing coastal

urban centers, where careers in the maritime and service industries were available. A prime example of this type of coastal community can be found in Bridgeport's Little Liberia (or Ethiope) community.

Located north and beyond the outskirts of Bridgeport's coastal settlement around Bridgeport Harbor, the APE remained sparsely settled throughout the colonial period and much of the 19th century. The 1856 Clark map of Fairfield County shows only the southern section of Ox Brook as it must have been considered too small to include by the cartographers (Figure 4) (Chace et al 1856). The northern part of Bridgeport was sparsely settled and appears to have been sparsely settled and typical Connecticut farmland of the period. The 1893 U.S.G.S., the first of its kind for the area, and just prior to the industrial boon in Bridgeport, similarly shows that the northern parts of town were still sparsely developed (USGS 1891) (Figure 5). By the time the 1931 Dolph and Stewart map was made, northern Bridgeport had been greatly transformed and was now covered by extensive urban development and the reservoir was still full of water (Figure 6). When the 1934 Fairchild aerial photography was taken of the area, the reservoir, however, was drained of water and had been opened or breached by this time. Larger sections of Ox Brook, however, were still open at this time and had not been culverted and buried. For the remainder of the 20th century the area around the APE continued to infill and more sections of ox Brook were buried.

4. Historical Period Context

4.1 EURO-AMERICAN SETTLEMENT TO THE MID-19TH CENTURY

Bridgeport is Connecticut's largest city, located at the mouth of the Pequonnock River on Long Island Sound. The area was first inhabited by the indigenous Paugussett tribe, which farmed and fished in the river and Long Island Sound. The first documented English settlers arrived in 1644, and they also subsisted on farming and fishing. During the Revolutionary War, a settlement known as Newfield grew near State and Water streets. To the west, Black Rock Harbor was a natural harbor used by privateers as a safe landing place for captured prizes (Orcutt 1886). Bridgeport's development in the historic period generally followed two separate paths, with the coastal areas being settled and developed first and the outlying parts of the town, such as the modern North Bridgeport and Brooklawn/St. Vincent neighborhoods that the APE traverses, following along at a later time.

4.2 TRANSPORTATION

Connecticut coastal shipping began to expand in the 1790s, fueled by the West Indies trade for sugar and rum, as demand increased for provisions such as livestock, grains, lumber, and manufactured goods. In part, as a result of the growth in coastal shipping in 1800, Newfield was incorporated as the Borough of Bridgeport in the Town of Stratford (*The Public Statute Laws* 1808). This marked the beginning of the process of Bridgeport becoming a separate and independent place.

One of the tools that fed the growth of coastal shipping was a series of chartered turnpikes that provided farmers with well-maintained roads (at a cost) to move their goods from the interior of the state to the coast for easier transport throughout the country and internationally. As historian Richard de Luca notes:

> At a crucial time in the young nation's history, when neither national nor state governments could provide funds for construction of roads, state charters allowed groups of investors to purchase shares of stock in turnpike corporations. In exchange for building and maintaining turnpikes with private funds, the turnpike company could charge travelers a toll for the use of its facility and thereby make a profit for its shareholders (connecticuthistory.org/early-turnpikes-in-connecticut/).

One of these, the Bridgeport to Newtown Turnpike, was chartered in 1801 and during the first half of 19th century it formed a north-south conduit through the APE:

> among the first enterprises [after the Borough was formed] was obtaining a charter for the Bridgeport and Newtown Turnpike Company, in 1801. This was a boon to the farmers on its line, and to the merchants. Over this turnpike a continuous stream of teams passed up and down until the railroads changed the conditions. (Municipal Register 1901)

The turnpike can be seen in the 1811 Warren map of Connecticut (Figure 7). It followed the route of present-day Main Street. It formed a spine along which the APE developed. In 1886 "Fairfield County dissolved all turnpike corporations in its jurisdiction" (Jayne n.d.).

Bridgeport continued to grow during the early 19th century, with its population increasing nearly 38 percent between 1810 (the first year it was counted as a separate place) and 1820 (U.S. Decennial Census). It became a township in May, 1821 with land taken from Stratford and Fairfield. The City of Bridgeport was incorporated May 1836, and the town and city consolidated in 1838. Throughout this time, the APE was settled in a relatively dispersed pattern, with few roads traversing it on maps and no identifiable population centers.

One of Bridgeport's first actions as a city was to obtain bond funding for the Housatonic Railroad and secure the line's terminus in Bridgeport (Municipal Register 1901). The Housatonic line opened in 1840, connecting the city to Danbury, New Milford, and Albany, and providing an alternate route for goods shipped on the Erie Canal (when the Hudson River was frozen). The Housatonic Line also provided a depot in North Bridgeport, closer to the APE than the line's terminus near the harbor, cutting the distance that local farmers and manufacturers had to travel before connecting to a commercial transportation system that could move their goods beyond the immediate area. The New York and New Haven Railroad began operation in 1848, connecting Bridgeport to New York City as well as to shoreline towns. Beginning in 1849, the Naugatuck Railroad linked Bridgeport to Waterbury and Winsted (Clouette and Roth 1984; Brilvitch 2007). While the railroads provided a new method for farmers and manufacturers to get their goods to market, there is no clear connection between the new rail lines and growth in the northern part of the town. The 1856 Fairfield County Map (Chace) shows the APE as a predominantly residential or rural area with with houses evenly dispersed along the turnpike and the roads that intersected it (Figure 4). A few traditional industries are interspersed among the homesteads: a tannery, brick yard and bone works near the north end of the APE, and a slaughterhouse east of the APE inside the bypass created by modern-day Beechmont Avenue. The 1864 Fairfield County Atlas (Beers) shows the North Bridgeport station on the Housatonic Line to the southeast of the APE (Figure 8). The property owners and businesses shown along the APE do not seem to have been greatly affected by this new, closer access to the rail lines. Few of the businesses in the area are changed, and only the Bridgeport Nursery seems to be advertising their goods for sale outside of the town -- a January 31, 1867 advertisement in the *Waterbury Daily American* identifies the nursery's agent in the Naugatuck Valley and his ability to faithfully fulfill orders.

4.2.1 Bridgeport's 19th-Century Industrial Growth

In the 1830s Bridgeport emerged as a major production center for saddles, carriages, and clothing. These products were made by hand, in large workshops, and in sufficient quantities for export. As a major railroad hub for western Connecticut and a city with a good harbor and a skilled workforce, Bridgeport was in a prime position for industrial growth by the 1850s.

The city's lack of a significant source of water power was overcome by importing coal for steam power. Bridgeport lacked a seed industry that would begin processes of diversification and mass production, and it was P. T. Barnum that led the importation of manufacturing that required skilled workers to produce highly complex, valuable goods (Clouette and Roth 1984: 20-21). In 1851, Barnum and his partner William H. Noble undertook the building of a "new city" on the east side of the Pequonnock River, including factories, housing, shops, churches, schools, and Washington Park (Saxon 1989: 11, 192; Barnum 1871: 758). They built a factory on speculation that, beginning in the mid-1850s, was occupied by the highly successful Wheeler and Wilson sewing machine company (Waldo 1897: 955). Drawn by the city's growing expertise in precision metalwork manufacturing, the Howe sewing machine company moved to

Bridgeport in the 1860s. Industry continued to grow as enterprising metalwork workers established their own shops. Bridgeport became known for a wide range of metal products such as steam engines, machine and hand tools, gauges, wire, pipes, springs, chains, mechanical toys, knives, scissors, cutlery, locks, and bronze monuments and statuary. As with the introduction of the railroad to Bridgeport, the industrial growth of the town appears to have left the APE relatively unaffected. The 1888 Bridgeport Atlas (G.M. Hopkins), which includes lot lines and acreage, shows the area filled with properties in excess of 10 acres (Figures 9a-9c). As late as this point in time, the area remains predominantly residential and rural.

4.2.2 Bridgeport Hydraulic Company

The most significant change in the vicinity of the APE is the appearance on the 1888 Bridgeport Atlas of three reservoirs (Horse Tavern, Ox Stream, and Island Brook) connected by aqueducts and owned by the Bridgeport Hydraulic Company.

The Bridgeport water system, which would ultimately be run by Bridgeport Hydraulic, started in 1818 with a system of bored-out pipes that ran from springs near the intersection of Golden Hill and Hewit Street [sic] Streets through the main streets of the borough. By 1833, the company was chartered as the Bridgeport Golden Hill Aqueduct Company. As noted by Nelson,

> While the system delivered an adequate supply of drinking water, in 1845, a massive fire destroyed much of the town's business district. The need for water for suppressing fires would require a larger delivery system and a much larger supply (Nelson 2020)

In response, the Bridgeport Water Company was formed in 1853. It was granted the "exclusive priveilege of laying down water pipes in the public streets, on condition that they should furnish the city and the inhabitants with a full supply of pure water for domestic, mechanical and all ordinary purposes, both public and private" (Orcutt 1886: 776-7). The company completed a masonry tank reservoir at Factory Pond and a dam on the Pequonnock River, creating Lower Bunnell's Reservoir, before declaring bankruptcy in 1855. In 1857, a special act of the Connecticut Legislative session created the Bridgeport Hydraulic Company to assume the operations of the Bridgeport Water Company. Between 1864 and 1872 Bridgeport Hydraulic added the Island Brook Supply System, which included two of the three connected reservoirs noted above (Nelson 2020). By that point, the Bridgeport Hydraulic Company system included five reservoirs with a capacity of 498,950,000 gallons; the 12 foot deep, 40 acre Ox Stream Reservoir had a capacity of 178,000,000 gallons. At that time, the company was planning to increase their water storage capacity with the addition of two reservoirs on Horse Tavern Stream (to the west of the APE) (Bridgeport Daily Standard, 9-11-1872, n.p.). These reservoirs were added in the late 1870s, after P.T. Barnum assumed control of the company. Barnum was also a stockholder in a competing company, the Citizens Water Company, which owned the rights to damming the Mill River in Easton. With the completion of a dam there in 1887, the Bridgeport Hydraulic Company started the process of procuring water for the city outside of it, ultimately adding five more large reservoirs located in Huntington, Fairfield, Easton, and Shelton by the late 1930s (Nelson 2020; Danenberg 1936: 69). The need for water from outside the growing city was emphasized by events during the first half of the 1920s. *The Bridgeport Telegram* reported in 1927, "For half a century Ox Stream flowed into Island Brook Reservoir and was part of the city's water supply. Then, a few years ago, it became contaminated and the Hydraulic Co. turned it back to it's natural bed." While the action prevented the city's water supply from being contaminated, it had unexpected consequences. The *Bridgeport Telegram* recounted how unsuspecting property owners had

built in the abandoned watercourse, only to have their property flooded when the Hydraulic Company reflooded it. The *Telegram* story indicated that the City was undertaking work to clear the stream and improve culverts so that it could handle a larger volume of water during storms (*Bridgeport Telegram,* Nov. 25, 1927, p. 16). The Ox Stream Reservoir was decommissioned and emptied of water between 1931 and 1934 (Dolph & Stewart, 1931; Fairchild, 1934). The property was sold to a developer who began grading but the land but never progressed far on his plan for redeveloping it (Tighe & Bond, 1-1).

4.2.3 The Need for Housing

The growth in Bridgeport's industrial base during the second half of the 19th century led to an increase in the town's population. More factories needed more workers, and the workers needed housing. From the 1850 census through the 1920 census Bridgeport's population grew dramatically. No ten year period saw a population increase of less than 40%. The 1840-1850 period saw the population increase by nearly 130% while the 1850-1860 and 1880-1890 periods saw increases of more than 75% (U.S. Census, 1840-1930).

This growth turned Bridgeport into a diverse working-class city of immigrants. Worker housing was needed near factories, and landowners in the South End of town were the first to see the development opportunities. William D. Bishop (1827-1904), president of the Naugatuck Railroad as well as the first president of the New York, New Haven and Hartford Railroad, was among them. Bishop left the railroad in 1879 because of ill health; several years later he developed a planned community of workers' cottages several blocks from the New York, New Haven and Hartford freight yard, between Main and Broad streets (Orcutt 1886: 700-703; Waldo 1897: 787). Their first major Bridgeport project (with P. T. Barnum in the mid 1870s) was successful and they continued to design housing for the working class, including four developments in Bridgeport. Completed in 1881, the Bishop cottages were first occupied by German, Irish, and rural New England families, representative of Bridgeport's late 19th-century working class (Brilvitch 1979).

While the south end began to be developed for workers, the north end lagged. The 1891 USGS map for the area and the 1893 Connecticut Atlas both show the difference in development between the south and north ends of the town: the lower Poquonock River is flanked by tightly grouped urban block filled, for the most part, with housing; the north part of town retains is dispersed settlement along widely spaced roads (USGS 1893; Hurd 1893) (Figures 5 and 10). By 1910, the Bridgeport Atlas (Kershaw) demonstrates that housing and population pressure has led to the beginnings of subdividing in the vicinity of the APE. Starting with the areas around Main Street and Woodside Street one can begin to see the subdivisions taking place on properties that had formerly been undivided. For the most part, while lots are drawn, few buildings appear to have been constructed. Nevertheless, the change in character for the area has begun, and the future of small lots with houses placed close to each other can easily be seen (Figure 11a-f). The 1931 map of the area confirms the pattern, with all of the streets in the APE delineated (if not always in their current configurations – some have been truncated while others have been extended) (Figure 6). The 1934 aerial photo (Fairchild) provides a clear depiction of how things had changed in the APE (Figure 12). One can see paved streets lined with houses, paved streets with some of their lots empty, and even unpaved streets with only a few houses or no houses at all (Figure 12). At this time, developments with modern suburban density had not yet filled in this part of Bridgeport. By the time of the 1951 aerial (Figure 13), streets were paved and the majority of the developments had been completed. (To the west

of Main Street and the north end of the APE, several new developments appear to be in the process of being completed and very few open fields remain.) By 1970 the final piece of suburban development, modern strip malls, had been added to the landscape in the vicinity of the APE (Figure 14).

5. Results of Archaeological Assessment

The APE has a 10,000-year-old record of occupation by indigenous peoples, followed by Euro-American colonists, African Americans, and later, peoples from all over the globe. Dense residential and business development has destroyed many of these sites, but pockets of intact, undisturbed sediments in which archaeological sites have been identified in urban areas.

5.1 EXISTING CONDITIONS: ARCHAEOLOGICAL RESOURCES

5.1.1 Previously Identified Pre-Colonial Archaeological Sites

AHS reviewed the files of previously-documented archaeological sites in the files of the OSA and CTSHPO. Several archaeological assessment surveys have been conducted near the APE. In 2018 AHS completed a Historic and Archaeological Resources Evaluation Report of the Bridgeport National Disaster Resilience & Rebuild by Design (Carnell and Leslie 2018). No previously recorded archaeological sites have been recorded within the APE. Six archaeological sites have been recorded approximately within one mile of the APE, four of which are pre-colonial and four are historic period (Figure 15). A review and discussion of those sites is presented below. Sites reported in the general vicinity of the APE are clustered along the lower Pequonnock River, which provided many resources for Native American subsistence and settlement, including fish and shellfish, game animals, waterfowl, and watercourses for travel. The sites include large shell heaps and burial grounds, the majority of which are dated to the Late Woodland period. Due to the large-scale disturbances from urban development and early excavation dates, none of these archaeological sites are thought to be preserved or eligible for listing in the NRHP.

Several pre-colonial human burial locations have been identified south of the APE, usually exposed during construction activities (Figure 15). Native American burial sites are associated with Sites 15-13 and 15-14, though little information has been preserved about them. Site 15-14 was discovered and destroyed during railroad construction near the old site of the Bridgeport Gas Works (Batchelor and Steck 1941).

Other indigenous burial sites have been recorded within Bridgeport, to the south of the APE and provide further context. In 2004 PAST, Inc. conducted archaeological monitoring of a Connecticut Department of Transportation project based on reports in 19th- and 20th-century sources that the remains of two human skeletons were observed during construction of an industrial building on Bostwick Avenue (recorded by the OSA as Site 15-10); the reports indicated that the remains lay directly beneath a brick wall and could not be removed (Forrest and Harper 2004). No human remains were found in the monitoring, but the documentation of building construction on top of burial sites indicated that the potential for human remains to be present even in disturbed settings is a very real possibility. Samuel Orcutt, in 1886, also recorded numerous Native American burials that were unearthed as part of an extension of Waldemere Avenue, associated with an expansion of Seaside Park.

In addition to burial sites, numerous Native American activity/occupation sites have been reported from the Bridgeport Harbor vicinity. Site 15-1 is represented by a large shell midden called the “Berkshire Shell Heap” site. The site was documented by early antiquarian archeologists and was associated with Levanna

triangular projectile points, oyster and quahog shells, deer bones, a "bone scraper" tool, and other stone tools (Coffin 1940; Batchelor and Steck 1941). In general, the City of Bridgeport can be considered to have high archaeological potential for Native American sites, especially Late Woodland period villages, burial places, and shell mounds. Although the city has undergone extensive development in the early 20th century, there may still be pockets of intact and preserved sites.

5.1.2 Previously Identified Historical Period Archaeological Sites

Four historical period archaeological sites have been identified within an approximately one-mile radius of the APE (Figure 15). Sites 15-2, 3, and 4 are submerged vessels that lie just north of the APE within the Peqounnock River. Site 15-2, the Berkshire No. 7, is a wooden and steel barge that was constructed in 1935 and measures approximately 104 feet in length. Sites 15-3 is the Elmer S. Dailey, measuring 105 feet in length, built in 1915, and modified in 1928; it is the only known surviving wooden canal boat that was used along the Erie Canal. Site 15-4, the Priscilla Dailey, is a wooden canal boat that measures 111 feet in length and was originally built in 1928 for use along the Champlain Canal. Stewart J. Dailey, a former driver on the Erie Canal, purchased these three boats for use as lighterage cargo transport along the New Jersey, New York, and Connecticut coasts (Clouette 1978a; Clouette 1978b; Clouette 1978c). Each of these vessels is listed individually in the NRHP under Criterion A.

Site 15-9, located to the north of the APE, is believed to be the 18th-century reservation of the Golden Hill Paugusset Tribe; "2 or 3 skeletons" were found during the construction of Bridgeport High School. The OSA, when it recorded the site in 1968, believed it to be destroyed (Batchelor and Steck 1941). This reservation was sold off in 1802, and it was this catalyst that likely set into motion the resettling of the APE by Pequonnocks, into the area that would become Little Liberia. The remnants of the reservation are likely destroyed today, as with the fortified village, although intact portions may still be preserved underneath urban and industrial fill.

5.1.3 Existing Conditions: Evaluation of Potential Archaeological Sites and Areas of Sensitivity

The APE was carefully evaluated to determine if there are areas of potential archaeological sensitivity (i.e., that have the potential to contain intact, significant sites), and/or visible archaeological sites such as foundations or mill remains. The APE was walked over and the soil integrity assessed with one-inch hand-powered soil cores in select locations (Figure 16). These areas included Elton Rogers Park at the north end of the APE, the Ox Brook water system from the park to Lincoln Boulevard, the southern terminus, and an eastward leg to Svihra Park. Svihra Park was not evaluated in the field at this time due to access issues, although visual observation from its perimeter was done to make a general assessment.

Elton Rogers Park is comprised of an approximately 74-acre area that is primarily covered by mixed hardwoods and wetlands that flank Ox Brook, which generally flows through the center of the park from north to south. The wetlands are also partially formed from the Ox Brook Reservoir silt deposits when it was part of the Bridgeport Hydraulic Company from 1875 to the 1930s. The Park interior is characterized by large boulders and rock outcroppings throughout, including some worked quarries, particularly on the eastern side of the APE. The Park is generally bordered by Old Town Road to the north, Kaechele Place to the west, and Frenchtown Road to the south and east, and is surrounded by single-family residences and condominiums. In the southern section of the Park are the remnants of the earthen and stone dam

structure, which has long been out of use and no longer holds water. The Park is also crossed by high-power lines from east to west.

The proposed Staging Area between Kaechele Place and the Dam is a flat artificial terrace made with two dry-laid fieldstone retaining walls, with one on the east side and the other on the north (Photograph 1). The terrace may have been formed as a staging area when the dam was built, thereby creating a flat and level work surface on the western slope. A soil core (C1) in this area was characterized by a thick developing topsoil and fill (Figure 17). The northeast corner of the terrace wall has partially collapsed due to tree growth.

The large earthen and stone dam has long fallen into disrepair and water now slowly percolates under the structure. There are several sections of outer stone walls that are still intact (Photographs 2 and 3). The center of the dam has undergone considerable collapse and erosion, but the top of the dam still serves as an informal hiking trail. The area on and around the dam is now covered with trees and brush.

On the east side of the dam, the terrain is especially uneven and covered with boulders, rock outcroppings, and large piles of irregularly shaped quarried stone. Boreholes from the drilling and splitting of stone are visible on some stones (Photographs 4 and 5). The large 2 ½-inch-diameter drill-hole types are characteristic of late historic mechanical drilling (post-ca. 1875). There is also of an old access road through the quarry and a number of deep holes in the side of the east slope where large masses of stone were removed during quarrying activities. This quarry extends along the east side of the reservoir to where the elevated high-voltage overhead high-power lines cross the park. A soil core in a level area (C2) showed a shallow developing topsoil and duff over B subsoil. This area appears to have had the original topsoil removed, probably during the quarrying activities. This entire section of the park, including the proposed Impounding Enlargement Area, has been extensively disturbed from quarrying activities and has no archaeological sensitivity. The quarry was likely used to provide stone for the dam construction. The area associated with the high-power lines has also been thoroughly disturbed and possesses no archaeological potential. Outside of the APE, areas of the Park do appear to have more intact soils and associated archaeological sensitivity.

The area in the northeast section of the park is associated with a proposed Northeast Dike construction. This area is near where Old Town Road and Frenchtown Road meet and is just south of the Bridgeport-Trumbull Town Line. This area is characterized by several fieldstone walls, a long and deep modern-era drainage ditch, and evidence of previous earthmoving activities (Photograph 6). Two soil cores were taken in this area (C3 and C4). Soil core C3 showed a thin developing fill/duff over fill. Soil core C4 was taken in a naturally elevated area. This elevated area is covered by woods but appears to have been graded (Photograph 7). Several soil cores in this area were repeatedly refused due to bedrock. Soil core C4 was able to penetrate the topsoil and encountered a thick fill over what appeared to be redeposited subsoil below that. This northern section of Elton Rogers Park associated with the proposed Northeast Dike construction has also undergone extensive earthmoving and has no archaeological sensitivity.

The western edge of the park is characterized by a steep artificial embankment of fill and boulders that extends along the western edge of Old Town Road and Sequoia Road. The large and steep fill deposits, which extend into the park, appear to have been created when the nearby subdivision was built. Below Sequoia Road are several areas in the park that are undeveloped and have archaeological sensitivity, however they are well out of the associated APE and will not be impacted. Soil core C5 was placed on a low and flat area north of the dam covered with hardwood trees. This area was found to be comprised of

wetland soils just below the thin AO and topsoil. This area is just outside of the APE north of the dam, artificial terrace, and proposed Staging Area. The remainder of the north side of the park does not have archaeological sensitivity and will not be impacted.

From Elton Rogers Park south, the APE is associated with a long segment of Ox Brook to Lincoln Boulevard (Figures 1 and 2). Another section runs from Ox Brook at Bronx Avenue east to Svihra Park which will serve as Detention Area and Diversion. Each section of Ox Brook in the APE was carefully assessed for potential archaeological sensitivity. The area is characterized by a dense 20th-century urban development with single-family homes, apartments, and small businesses. Most of Ox Brook in the APE has been culverted and buried and now lies hidden below the streets, sidewalks, and yards and is not visible. In some areas there are remnant hints of the lower topography associated with the historic course of the brook, though in much of the APE there is no indication that the brook flows just underneath the ground surface. In several areas Ox Brook emerges from the culvert and is exposed, these areas were also carefully inspected for archaeological sensitivity. Descriptions of the open areas are below and are numbered 1-8 from north to south (Figure 18).

1) Near the intersection of Bartlett Street and Stoehrs Place, Ox Brook emerges behind several residences (Photograph 8). The brook is flanked by trees and overgrowth, and on the east bank is a slowly collapsing cement retaining wall. The other bank is made of trap rock. This area has been heavily and repeatedly landscaped with no remnants of original soils.

2) At the intersection of Clark Street and Wayne Street, Ox Brook emerges and is open (Photograph 9). This area has undergone relatively recent earthmoving associated with yard landscaping to the edges of the brook. A cast iron utility pipe also crosses through this area.

3) This section of Ox brook, also at Clark Street and Wayne Street, is associated with heavily landscaped yards including the construction of a tall fieldstone retaining wall on the north bank and large blocks of stone set onto the east bank (Photograph 10).

4) A section of Ox Brook emerges at the end of Keeler Avenue, a no-outlet street. This narrow section of the brook has been heavily landscaped up to the edges of its banks (Photograph 11). This section is also heavily disturbed.

5) At Savoy Street and Amsterdam Avenue, Ox Brook has been heavily modified with high retaining walls of fieldstone, brick, and cement (Photograph 12). On the east side is a paved parking area, and on the west the bank has been modified by yard landscaping. A small wooden ornamental bridge spans the brook here.

6) This area of Ox Brook, associated with Amsterdam Avenue to Quince Street, has also been intensively impacted by landscaping and high retaining walls (Photograph 13). The walls appear to have been built at about the same time. On the east side of the brook is a parking lot and on the west side is a fence and a landscaped yard.

7) At Wayne Steet and Arlington Street, Ox Brook is significantly deeper and wider (Photograph 14). The retaining walls are also more than six feet in height. The walls in this section of Ox Brook were skillfully built of stone and cement. On the west side of the brook, a line of stones was set at the top of the wall to form a curb for the driveway.

8) At the southern end of the Ox Brook APE is Lincoln Boulevard and Garfield Avenue (Photograph 15). Here the brook is wider and deeper, and the retaining walls are high and made from poured cement. The banks of the brook have been completely landscaped to accommodate housing and parking.

5.2 POTENTIAL EFFECTS TO ARCHAEOLOGICAL RESOURCES

The archaeological assessment identified no areas of archaeological sensitivity in the APE. Evidence of quarrying activity was noted in Elton Rogers Park, which is of historical interest but is not considered in and of itself significant enough to rise to the level of NRHP eligibility. As part of the dam complex, the quarrying, which may well have been torn for dam construction, may be eligible for inclusion in the SRHP (see historic resources discussion in Section 6). Soil probes throughout the park APE showed disturbed soils and significant land modification that disturbed or destroyed any archaeological sites which may have once been present.

Much of Ox Brook has been buried or culverted, and the land modification to achieve that eliminated any intact soils and associated archaeological potential.

The remainder of the APE is densely developed, with little to no archaeological sensitivity.

In sum, there will be no effects to any archaeological resources by the project construction as currently planned.

6. Results of Historic Resource Assessment

The APE has a rich, complex history and retains many historic-period resources (defined as at least fifty years old). The APE includes one known pre-Revolutionary War-period house; five houses from the end of the 19th-century; a variety of smaller housing from 1900-1976; and a few small mixed-use and commercial buildings. Within the APE, the majority of properties are less than 45 years of age. (Although with few exceptions, the minimum age to qualify for NRHP eligibility is 50 years old or older, the benchmark of 45 years old was used to allow for the expected several-year lifespan of the project). AHS noted no NRHP-listed or -potentially eligible historic properties or districts within the APE. AHS identified one historic resource as potentially eligible to the SRHP during fieldwork; it may be affected, directly or indirectly, by the proposed project. A list, and photographs, of all of the properties evaluated, are in Appendix C.

6.1 EXISTING CONDITIONS: HISTORIC RESOURCES

6.1.1 National Register-listed Individual Properties

AHS's review of the NRHP database, the NPS on-line GIS tool, and the CT SHPO spreadsheet of historic resources identified no NRHP-listed individual properties within the APE.

6.1.2 National Register-listed Districts

AHS's review of the NRHP database, the NPS on-line GIS tool, and the CT SHPO spreadsheet of historic resources identified no NRHP-listed historic districts within the APE.

6.1.3 Potential National Register-eligible Individual Properties

AHS's field survey of historic resources identified no individual properties that are recommended as potentially eligible to the NRHP within the APE.

6.1.4 Potential National Register-eligible Districts

AHS's field survey of historic resources identified no historic districts that are recommended as potentially eligible to the NRHP within the APE.

6.1.5 Potential State Register-eligible Individual Properties

AHS's field survey of historic resources identified one individual property that is recommended as potentially eligible to the SRHP within the APE, the former Ox Stream Reservoir Dam (Photographs 16-18). The dam was constructed by 1872 as part of the Island Brook Supply System, which ultimately included the Ox Stream, Horse Tavern, and Island Brook Reservoirs. The dam is not only a locally significant example of water system engineering, but also, with the other dams in the Island Brook Supply system, it

helped Bridgeport to continue its rapid expansion during the end of the 19th and the beginning of the 20th centuries by providing both drinking water and water for firefighting. Although the dam is somewhat overgrown and no longer functional, it retains significant integrity of location, setting, materials, workmanship, feeling, and association to demonstrate its role as a dam. While the dam appears to retain sufficient integrity and significance for the SRHP, without clear connections to the other dams in the system it lacks sufficient significance to be recommended as potentially eligible to the NRHP.

6.1.6 Potential State Register-eligible Districts

AHS's field survey of historic resources identified no historic districts that are recommended as potentially eligible to the SRHP within the APE.

The APE is made up of a group of heterogeneous neighborhoods that mix a variety of different housing styles. Some of the neighborhoods, especially along the larger north-south streets like Main Street, Wayne Street, and Madison Avenue, include commercial or mixed residential-commercial buildings. Several building types are noteworthy but not prevalent. The Joseph French House, 13 Frenchtown Road, Trumbull is the only 18th-century building in the APE (see Appendix C for a photograph of the building; photographs of all the buildings in the APE, arranged by address, are included there). While it is traditionally thought to date to the 1760s, later additions, including an attached garage, "eyebrow windows," and an overhanging roof mean that the building no longer clearly conveys its age. Similarly, the five building from the second half of the 19th century are not strongly representative of the period or styles in which they were constructed due to later modifications. An illustrative example of this is 371 Wayne Street. Due to modern siding and windows and the enclosing of a front port, the building no longer retains sufficient integrity to clearly express its history. The majority of the remaining residential buildings fall into five distinct categories by type and style: Queen Anne, Craftsman, Cape, Colonial, and Ranch. It is these five types that make up the majority of the housing in the APE. The Queen Anne buildings are generally two stories with porches (sometimes of two stories with the second story offset to one side of the porch) and often include bay windows and cross-gable roofs. The house at 240 Bronx Avenue is an illustrative example of this type. One minor variant, which occurs with some frequency, is inclusion of a full-width second-story porch; 87 Bronx Avenue is a good example of this type. Craftsman buildings, with full-width front porches recessed under the roof, prominent dormers, and exposed rafter tails are well represented in the APE by 593 Wayne Street. Cape-style buildings are plentiful in the APE. They are generally one-story buildings, with a simple, rectangular plan, side gable roof and symmetrical façade. A representative example of the type can be seen at 233 Birmingham Street. The Colonial type appears in some variety in the APE, with examples including one- and two-story examples, side- and front-gable examples, and peaked- and gambrel roof examples. The connecting idea behind all of these houses is that they are attempting to recreate colonial forms (or modern ideas of colonial forms) to meet 20th-century needs. Illustrative examples can be found at 311 Cambridge Street, 82 Goldenrod Avenue, and 64 Woodmont Street. Ranch houses are also plentiful in the APE, especially in the post-World War II era. These are characterized by a wide plan that emphasizes the horizontal and are often capped with low-pitched roofs. The house at 235 Keeler Avenue is a good example of this type, while 120 Clarke Street demonstrates the Split-Level variation (where one half of the house is raised above the garage and the floor levels are staggered).

6.2 EVALUATION OF POTENTIAL EFFECTS ON HISTORIC RESOURCES

The APE was carefully evaluated with an infield walkover on the public right-of-way and a review of historic documents, maps, and photographs. The surveyed areas included Frenchtown Road in Trumbull, Elton Rogers Park, the Ox Brook water system from the park to Lincoln Boulevard and to Svihra Park. Svihra Park was not evaluated infield at this time due to access issues, although visual observations were made from its perimeter. The APE includes the now dry Ox Stream Reservoir area in Elton Rogers Park and its dam and the Ox Brook water system that is carried by underground pipes and open culverts for its length, with the exception of the Wayne Street to Svihra Park leg, which will be in new underground box culverts. The proposed work will follow the current arrangement of open and underground culverts, limiting the visibility of the new work.

As noted above, one resource, the Ox Stream Reservoir Dam, is recommended by AHS as potentially eligible for listing in the SRHP. The rest of the APE includes one potentially 18th-century building and more than 200 buildings dating from the mid-19th to the mid-20th century within the APE. The buildings were assessed as not eligible for listing in the NRHP or SRHP, primarily because of diminished integrity of design, materials, and/or setting or because of limited historical significance. The most common alterations to design were the enclosure of formerly open porches and the conversion of formerly single occupancy buildings into those with multiple units. The most common alterations to materials were the introduction of modern siding and windows. Integrity of setting was most frequently diminished through the introduction of modern buildings into otherwise historic streetscapes. The limited historical significance stems from the way in which the area was developed: larger lots were generally subdivided in the first half of the 20th century without the benefit of architectural designs. They appear to lack the "distinctive characteristics of a type, period, or method of construction," do not "represent the work a master or possess high artistic values," nor do any of the properties collectively represent "a significant and distinguishable entity whose components lack individual distinction." Photographs of all of the properties within the APE appear in Appendix C.

As the proposed work will replace existing culverts or be buried underground, there will be no effects on historic resources within the APE with the exception of the dam itself, which is proposed for rehabilitation. As AHS recommends the dam as potentially eligible to the SRHP, there is the possibility that the proposed work will have an effect on it. Potential mitigation for a direct effect to the dam could include state-level documentation and signage in Elton Rogers Park explaining the dam's historical significance.

7. Conclusion and Recommendations

7.1 ARCHAEOLOGICAL RESOURCES

The APE is associated with a large area of Ox Brook within Elton Rogers Park, from Elton Rogers Park south to Lincoln Boulevard and an eastern section of proposed Detention Area and Diversion from Bronx Avenue to Svihra Park. Svihra Park was not evaluated in detail due to access issues, although visual observations from its perimeter were made under leaf-off conditions so that a general assessment could be made. The APE within Elton Rogers Park includes the proposed Staging Area, the Dam, the Northeast Dike, and the Impounding Enlargement Area. A careful visual examination and soil coring have determined that the APE has undergone extensive disturbance due to historic quarrying activities, probably related to the construction of the dam, terracing, landscaping with push piles, drainage ditches, and a power line. The APE within Elton Rogers Park has no archaeological sensitivity. The APE associated with the course of Ox Brook from Elton Rogers Park south to Lincoln Boulevard is characterized by extensive sections of the brook culverted and buried. The few open areas of Ox Brook are associated with extensive modern residential landscaping, retaining walls, deposits of trap rocks, and paved parking lots and driveways. As the brook flow increases with its course to the south, the retaining walls are consistently higher and more substantial to accommodate the increased water flow. Each section of the brook reflects individual adaptations and constriction techniques. This area has no archaeological sensitivity. The area from Bronx Avenue to Svihra Park is densely developed and has no archaeological sensitivity. In summary, no part of the APE associated with Ox Brook Flood Control Project as currently proposed has archaeological sensitivity. If project actions extend outside of the current APE, especially in Rogers Park, additional survey may be warranted as parts of the park outside of the APE appeared to be intact.

7.2 HISTORIC RESOURCES

The APE retains a wide range of historic-period resources, the majority of which date from the mid-19th to the mid-20th centuries. While these buildings, landscapes, structures, and objects reflect Bridgeport's rich and complex history, only the Ox Stream Reservoir Dam appears to retain sufficient integrity and significance to be recognized with listing in the SRHP. Actual determination of SRHP eligibility is properly part of the ongoing consultative process among CTDEEP and CTSHPO.

As the project design process moves forward, the potential effects will need to be evaluated accordingly, including both direct effects and indirect effects. Indirect effects involve a) the loss of elements that are an important part of the properties' settings and historical character, and b) the introduction of incompatible modern construction that would diminish the properties' integrity of setting, feeling, and association. No assessment of construction easement, staging, storage and access areas, noise and/or vibration effects on National Register-listed or eligible resources could be made, as there is not yet sufficient data. As the project design evolves, additional potential impacts to historic resources should be noted.

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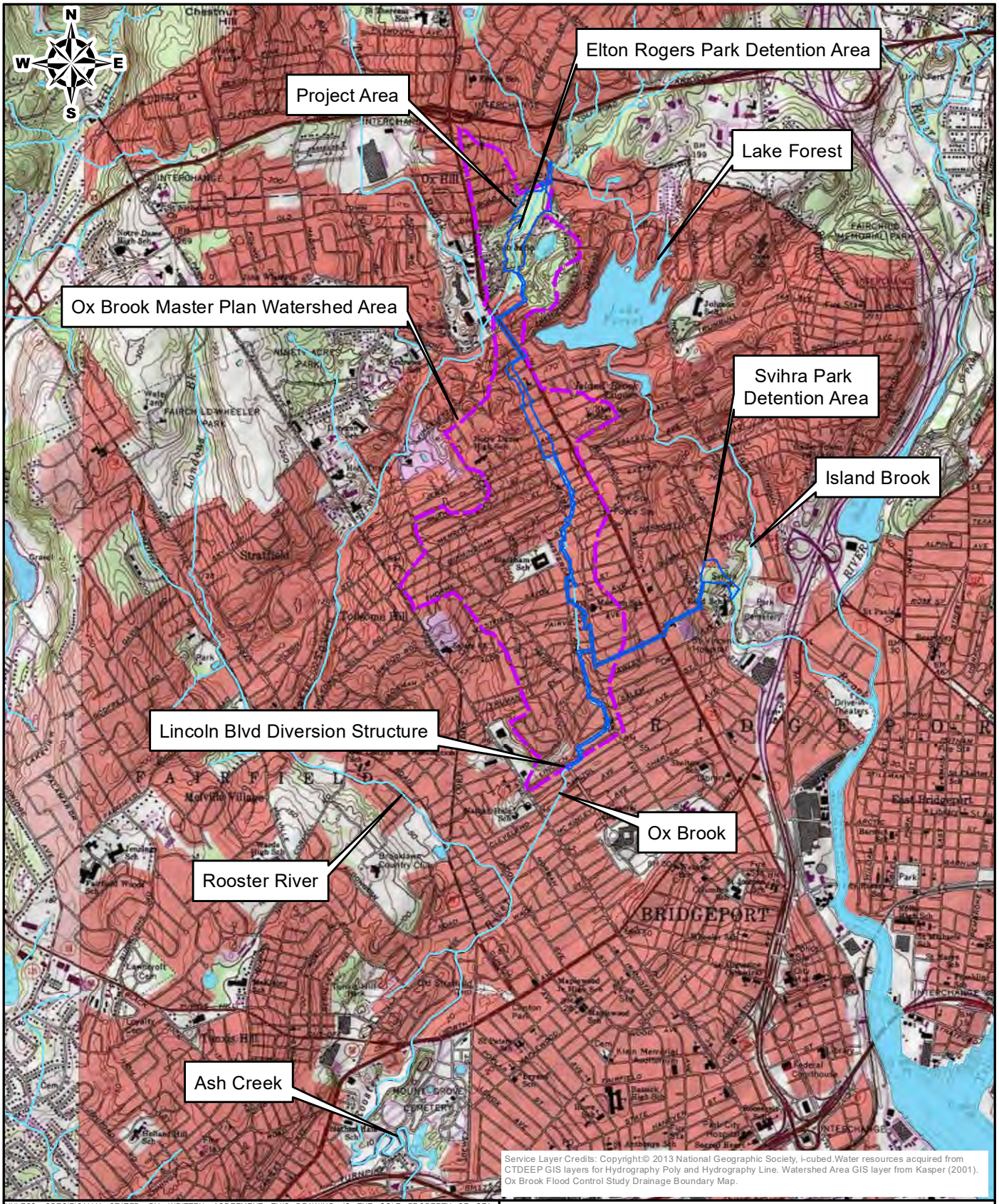
APPENDIX A: Figures



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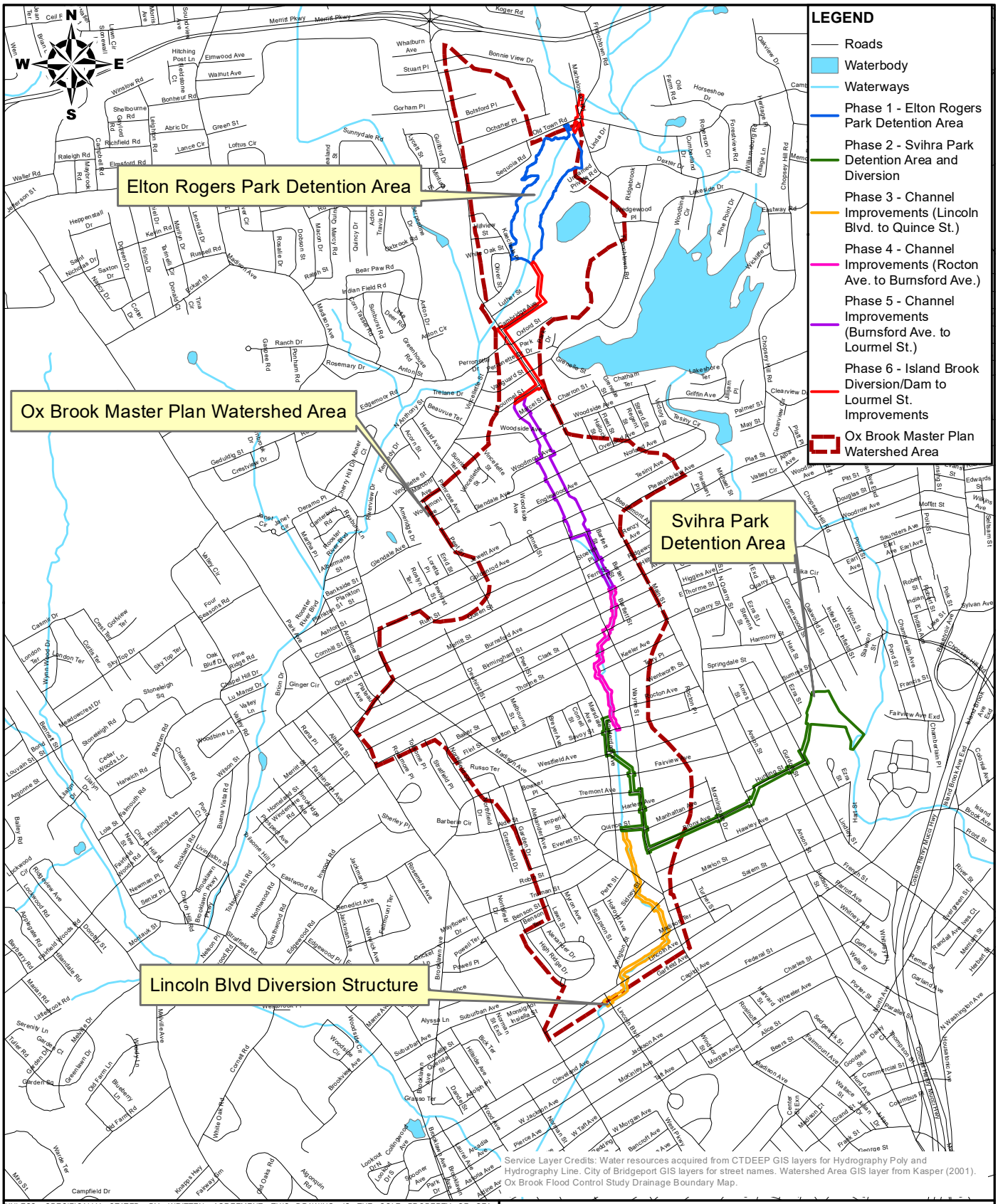

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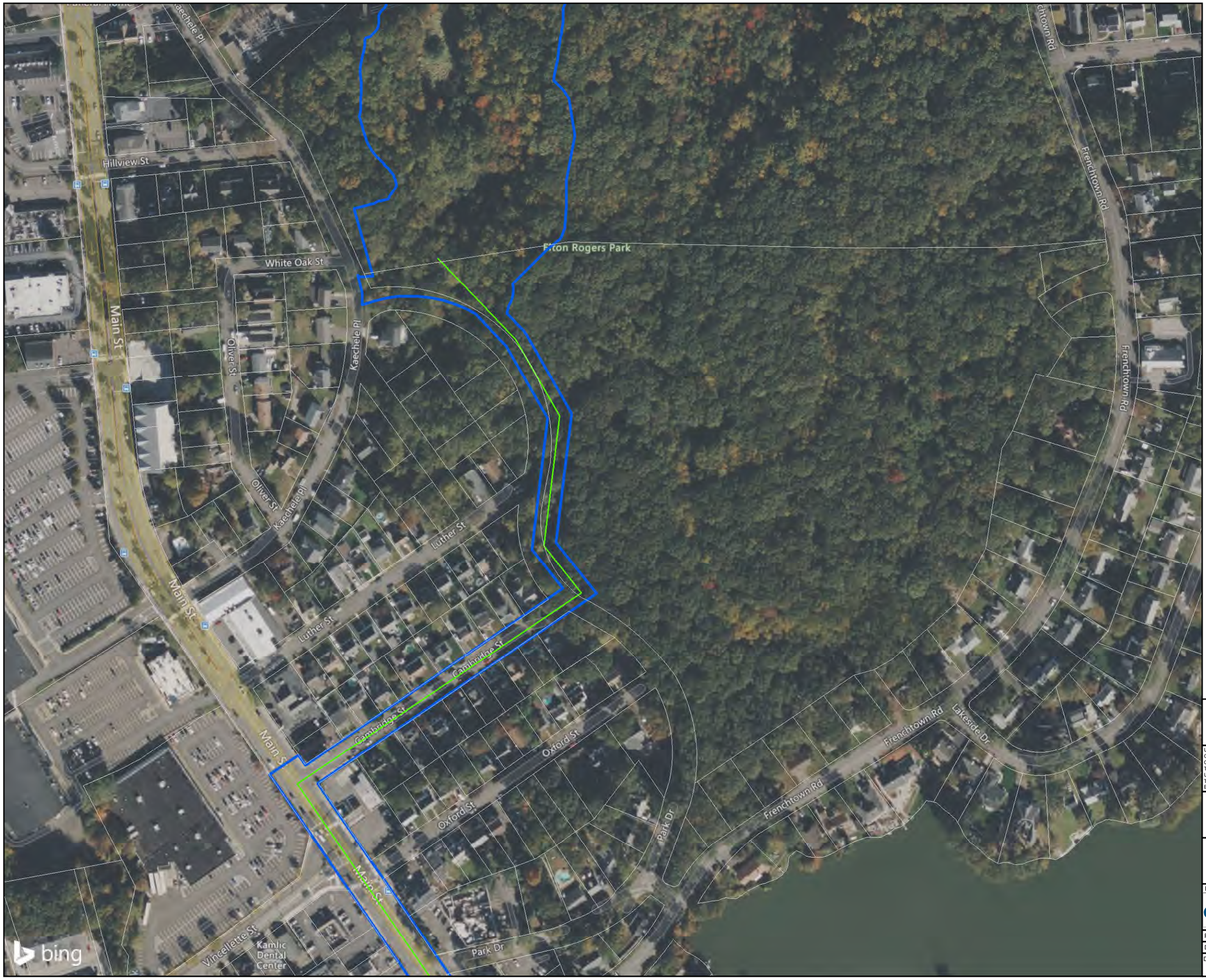

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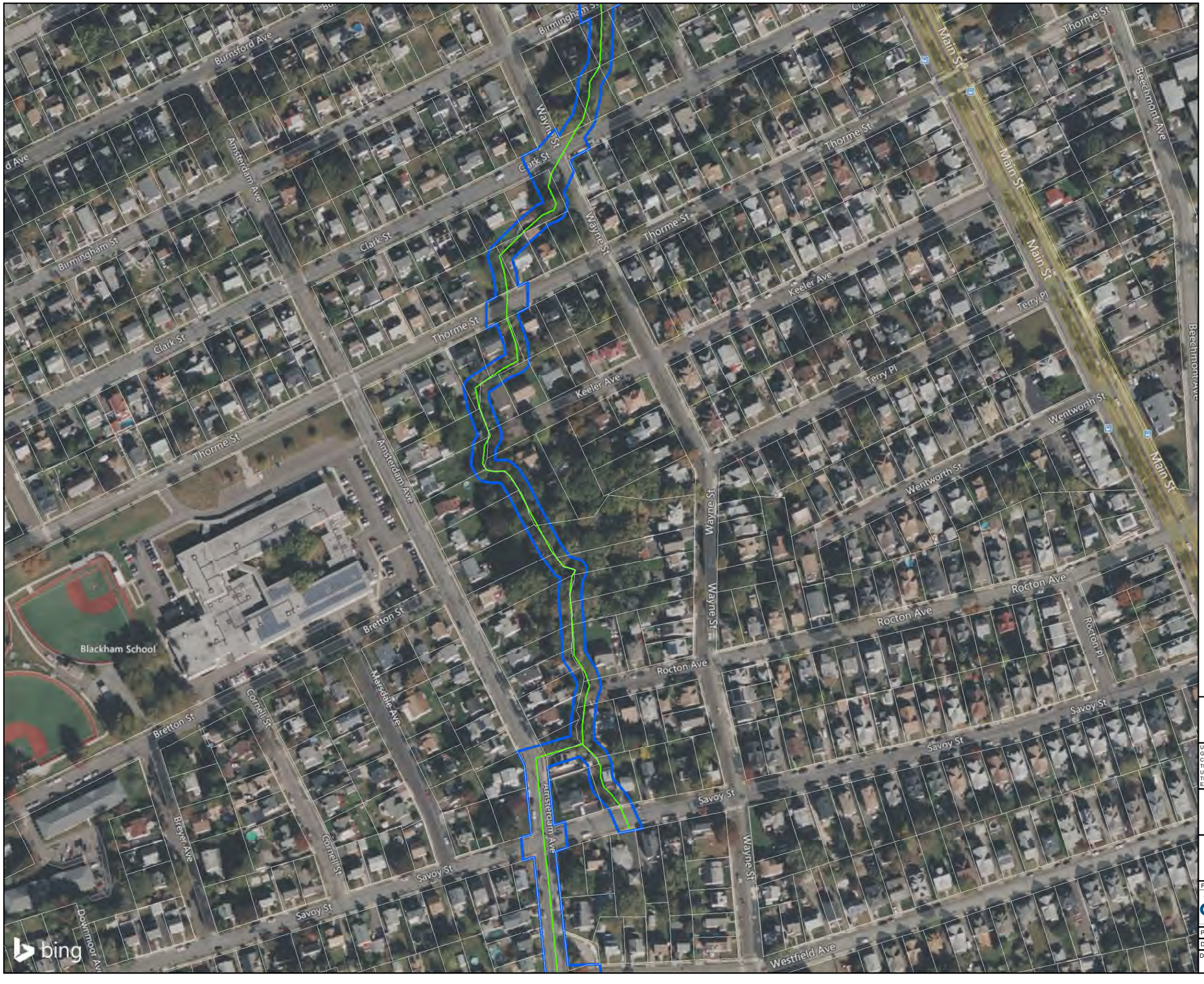

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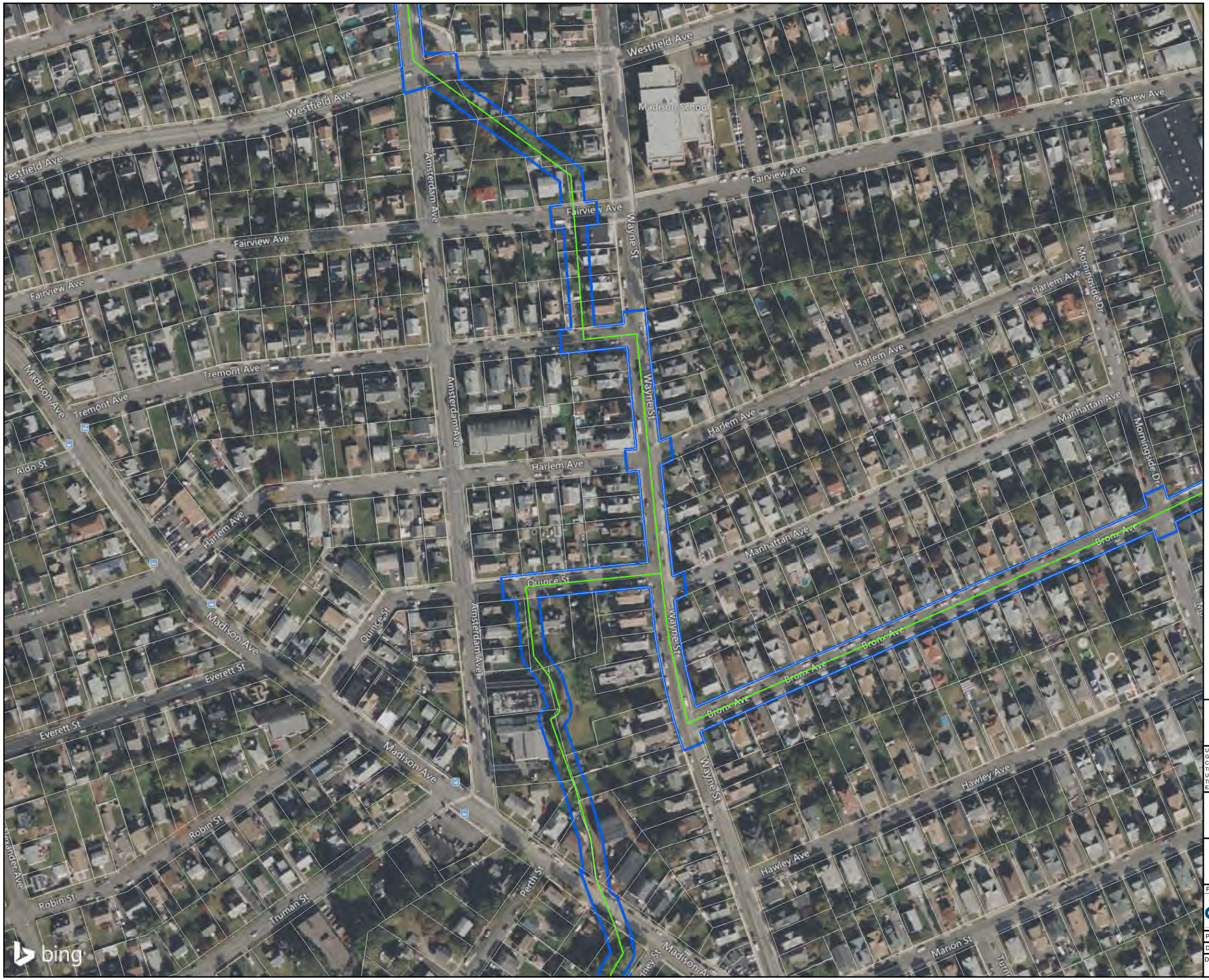
PROJ MGR: JRB	REVIEWED BY: TEJ	CHECKED BY: SLL	FIGURE 3E
DESIGNED BY: JRC	DRAWN BY: JRC	SCALE: 1 in = 200 ft	
DATE: DECEMBER 2021	PROJECT NO: 15.0166920.00	REVISION NO:	



LEGEND

N

- Parcels
- Project Area
- Project Centerline

NOTES:

1. BASE MAP SOURCE: BING 2020-2021 IMAGERY.

200 100 0 200 Feet

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR THE USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

OX BROOK FLOOD CONTROL MASTER PLAN EIE
BRIDGEPORT, CT

AERIAL MAP

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: CITY OF BRIDGEPORT BRIDGEPORT, CT	
PROJ MGR: JRB	REVIEWED BY: TEJ	CHECKED BY: SLL	FIGURE 3F
DESIGNED BY: JRC	DRAWN BY: JRC	SCALE: 1 in = 200 ft	
DATE: DECEMBER 2021	PROJECT NO: 15.0166920.00	REVISION NO:	



LEGEND

- Parcels
- Project Area
- Project Centerline

N

NOTES:

1. BASE MAP SOURCE: BING 2020-2021 IMAGERY.

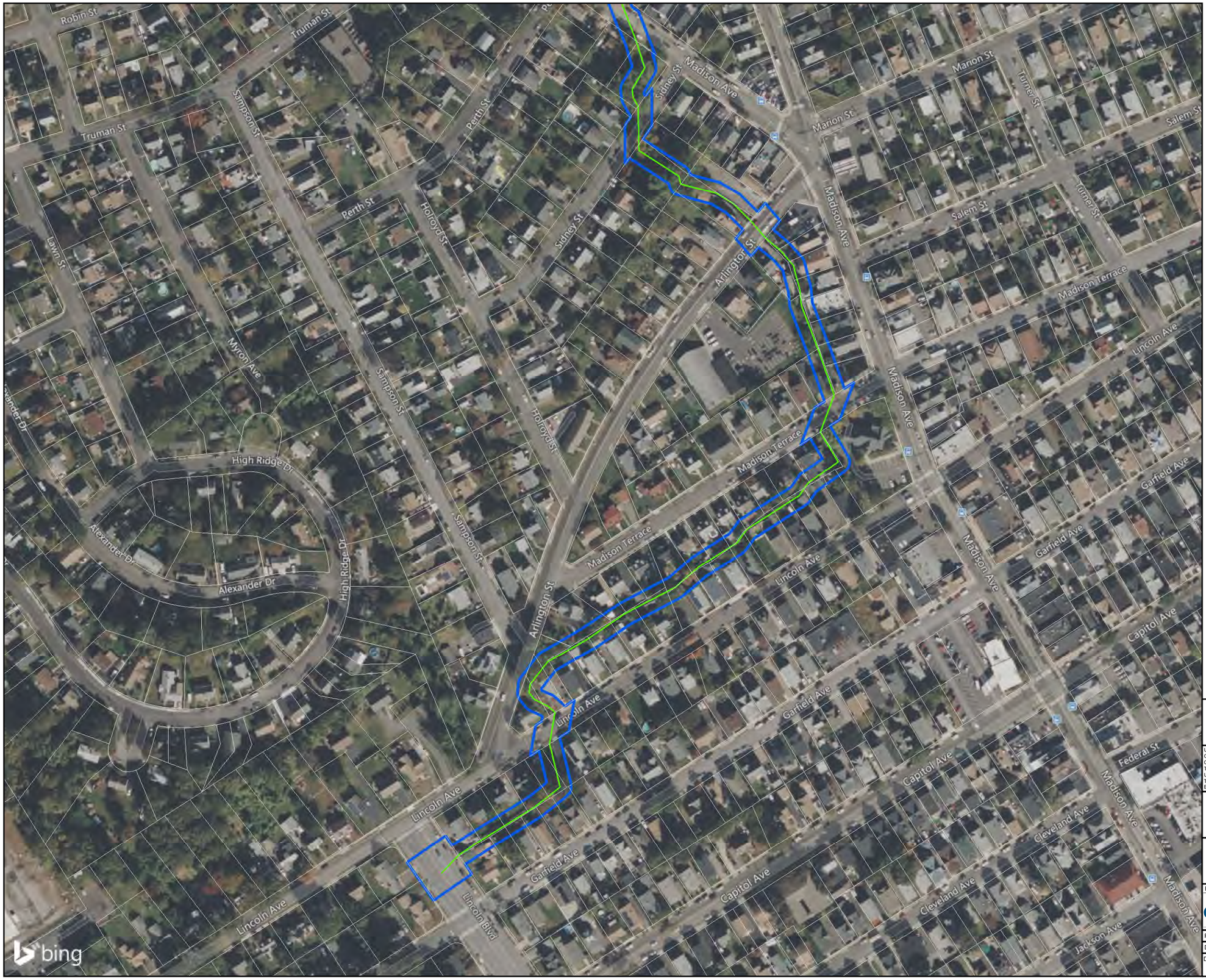
200 100 0 200 Feet

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR THE USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

OX BROOK FLOOD CONTROL MASTER PLAN EIE
BRIDGEPORT, CT

AERIAL MAP

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: CITY OF BRIDGEPORT BRIDGEPORT, CT	
PROJ MGR: JRB	REVIEWED BY: TEJ	CHECKED BY: SLL	FIGURE 3G
DESIGNED BY: JRC	DRAWN BY: JRC	SCALE: 1 in = 200 ft	
DATE: DECEMBER 2021	PROJECT NO: 15.0166920.00	REVISION NO:	



LEGEND

N

- Parcels
- Project Area
- Project Centerline

NOTES:

1. BASE MAP SOURCE: BING 2020-2021 IMAGERY.

200 100 0 200 Feet

UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR THE USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

OX BROOK FLOOD CONTROL MASTER PLAN EIE
BRIDGEPORT, CT

AERIAL MAP

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: CITY OF BRIDGEPORT BRIDGEPORT, CT	
PROJ MGR: JRB	REVIEWED BY: TEJ	CHECKED BY: SLL	FIGURE 3H
DESIGNED BY: JRC	DRAWN BY: JRC	SCALE: 1 in = 200 ft	
DATE: DECEMBER 2021	PROJECT NO: 15.0166920.00	REVISION NO:	



Figure 4: Section of the 1856 Clark Map of Fairfield County, Connecticut showing the general location of the APE (red line). At this time the Bridgeport Hydraulic Company had not built the dam and reservoir and development was sparse in the northern section of Bridgeport. Only the most southern part of Ox Brook appears must have been considered too small to include.

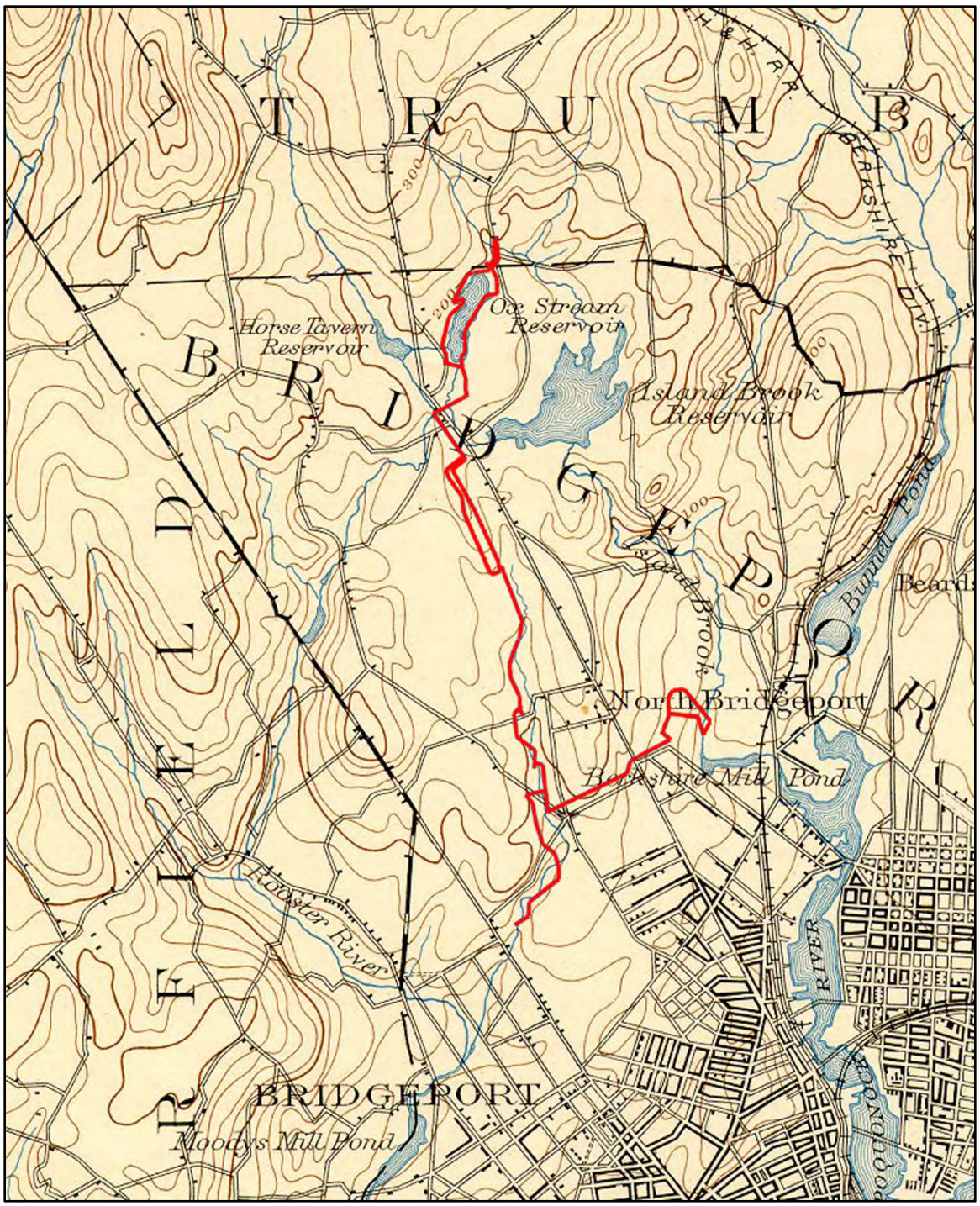


Figure 5: Section of the 1891 USGS topographical map showing the general location of the APE (red lines). The Bridgeport Hydraulic Company's reservoir, called the "Ox Stream Reservoir" is shown, as well as most of Ox Brook to the south. Most of the APE remained undeveloped at this time.

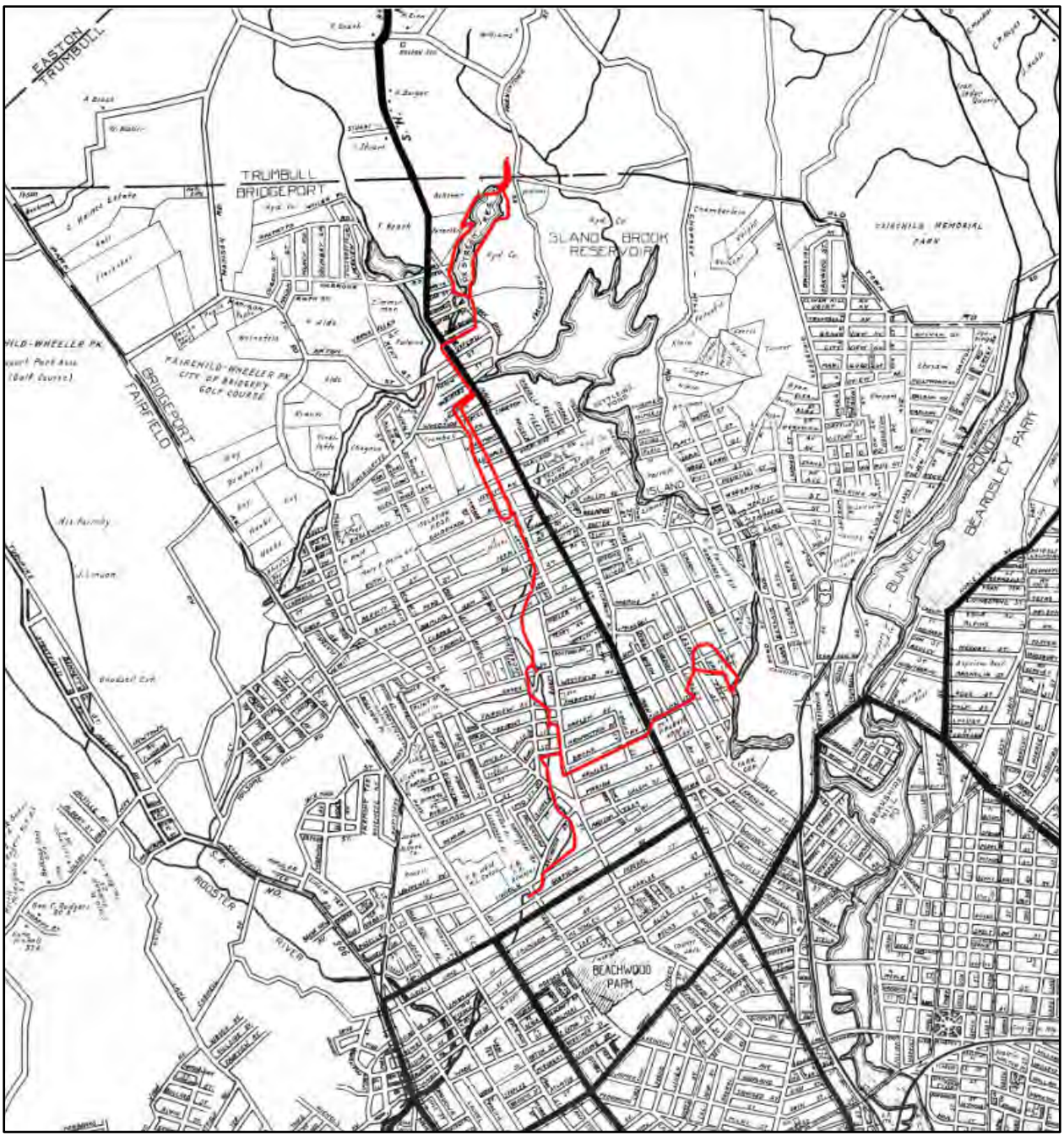


Figure 6: Section of the 1931 Dolph and Stewart map of Bridgeport showing the general location of the APE (red lines). By this time the northern sections of Bridgeport had now undergone extensive urban development. Much of Ox Brook, however, was still exposed and had not yet been culverted and buried.



Figure 7: Section of the 1811 Warren Map of Connecticut showing the Bridgeport to Newtown Turnpike running through the project area.

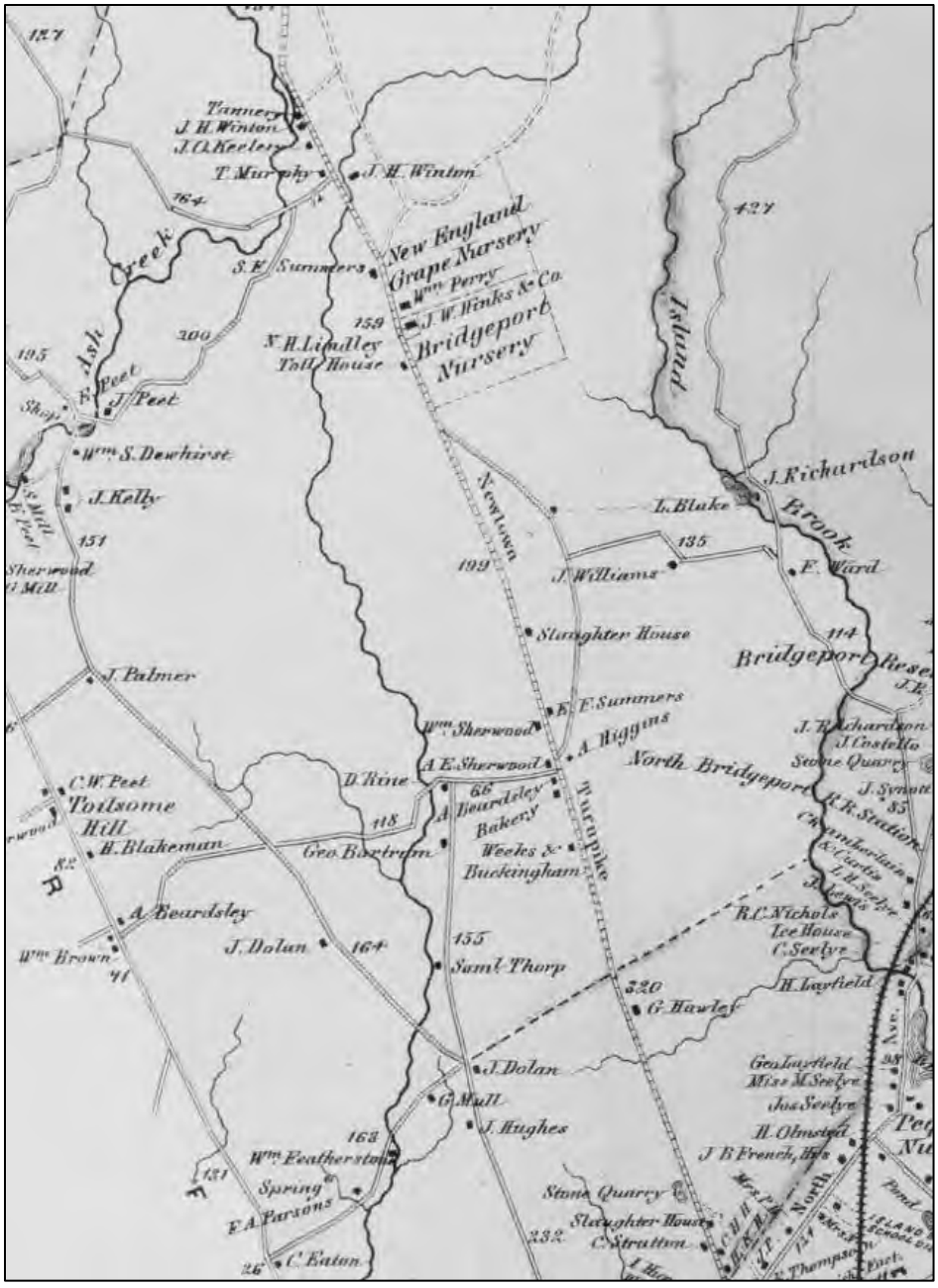


Figure 8: Section of the Bridgeport Map from the 1864 Beers Atlas of Fairfield County showing the general location of the APE. The North Bridgeport station and the Housatonic Line are at the bottom right edge of the image.

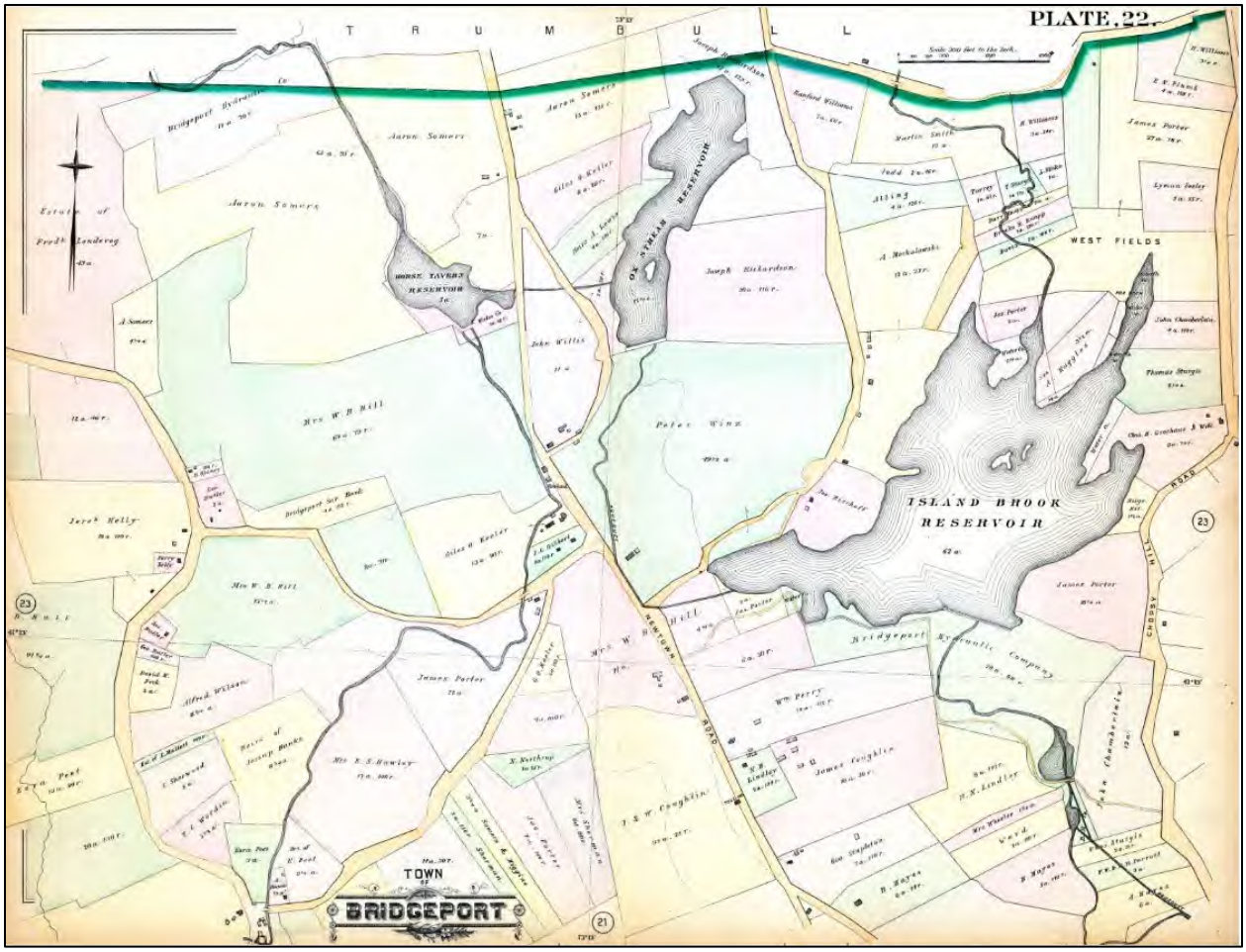


Figure 9a: Plate 22 from the 1888 Hopkins Atlas of Bridgeport showing the northern end of the APE. At this point, the area was still lightly settled with large plots of land predominating.

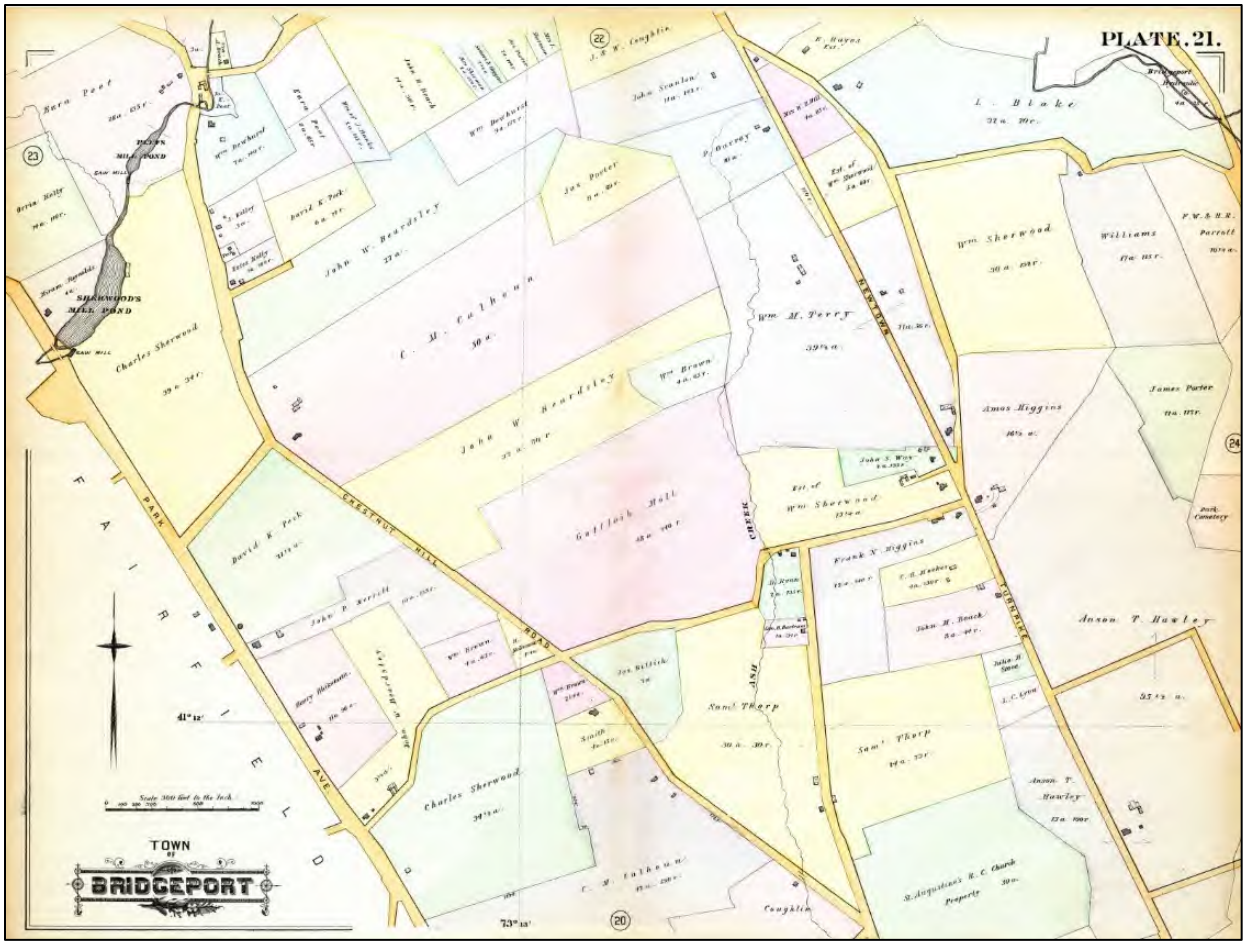


Figure 9b: Plate 21 from the 1888 Hopkins Atlas of Bridgeport showing the southern end of the APE. At this point, the area was still lightly settled with large plots of land predominating.

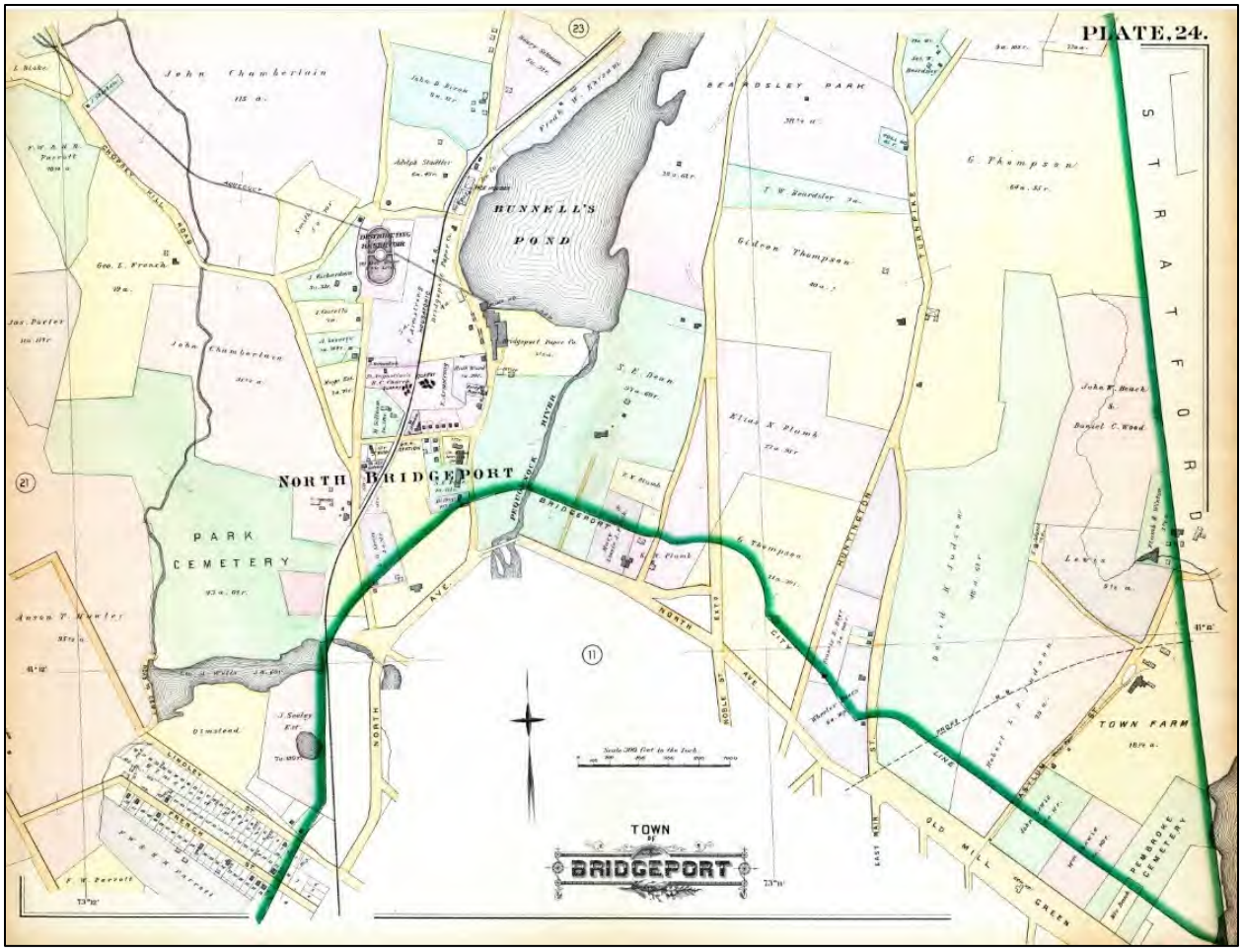


Figure 9c: Plate 24 from the 1888 Hopkins Atlas of Bridgeport showing the eastern part of the APE (at the left edge of the plate). At this point, the area was still lightly settled with large plots of land predominating.

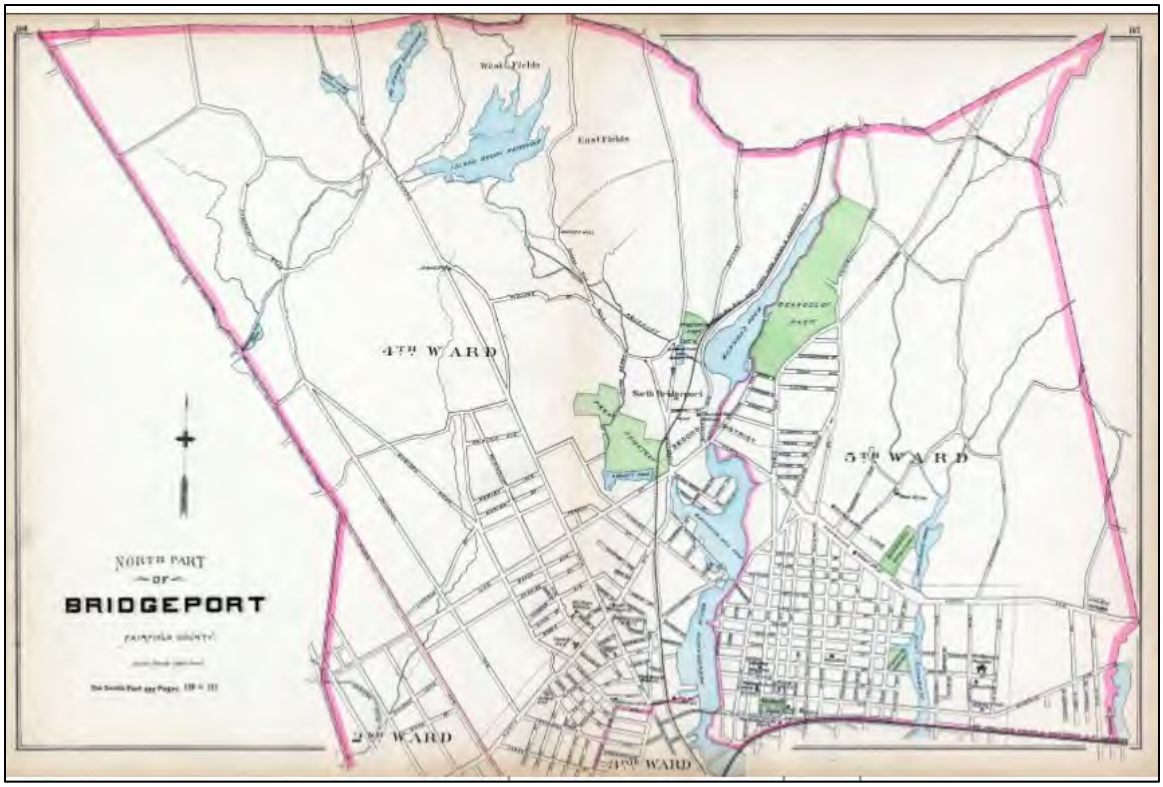


Figure 10: The north part of Bridgeport in the 1893 Connecticut State Atlas, showing the difference in development patterns in the north and south parts of the town. The three reservoirs are visible at the top of the plate.



Figure 11a: The northwest part of the APE in Plate 1 of Kershaw's 1910 Bridgeport Atlas. Subdivisions can be seen at the lower right corner of the map.

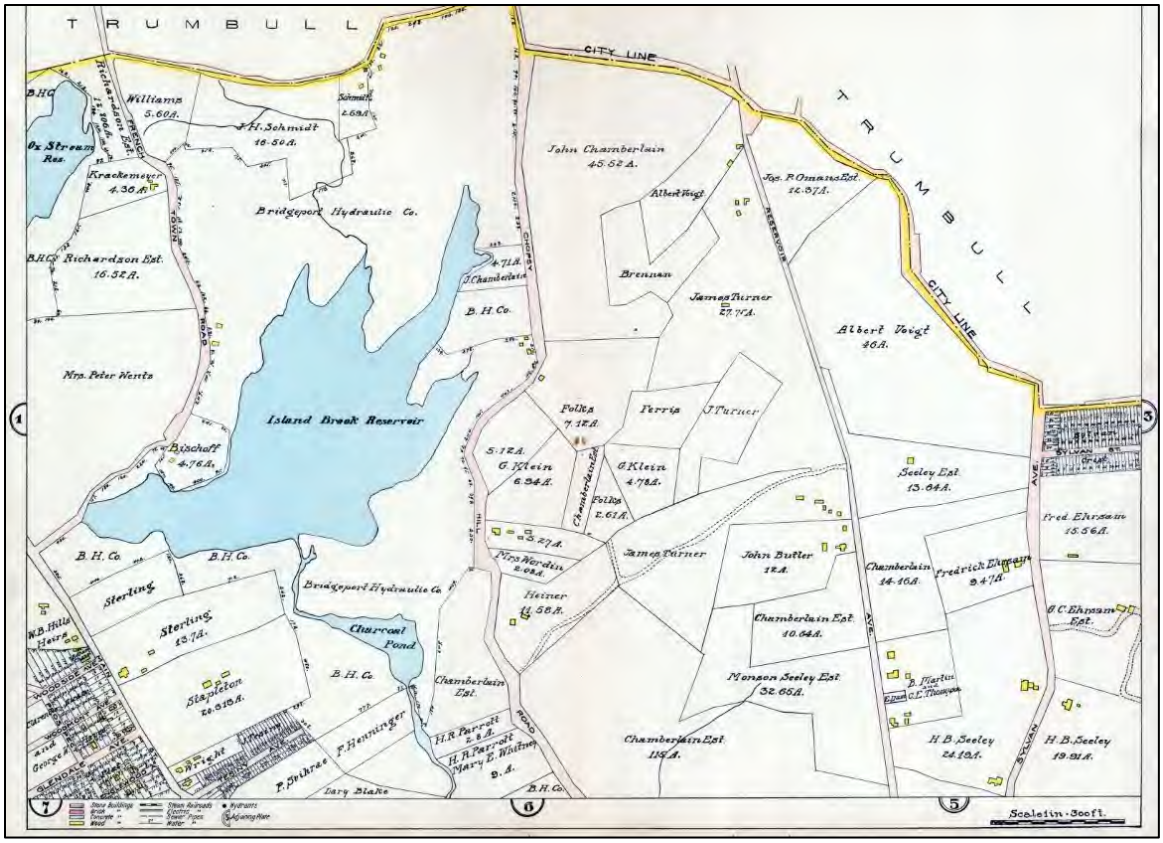


Figure 11b: The northeast part of the APE in Plate 2 of Kershaw's 1910 Bridgeport Atlas. Subdivisions can be seen at the lower left corner of the map.

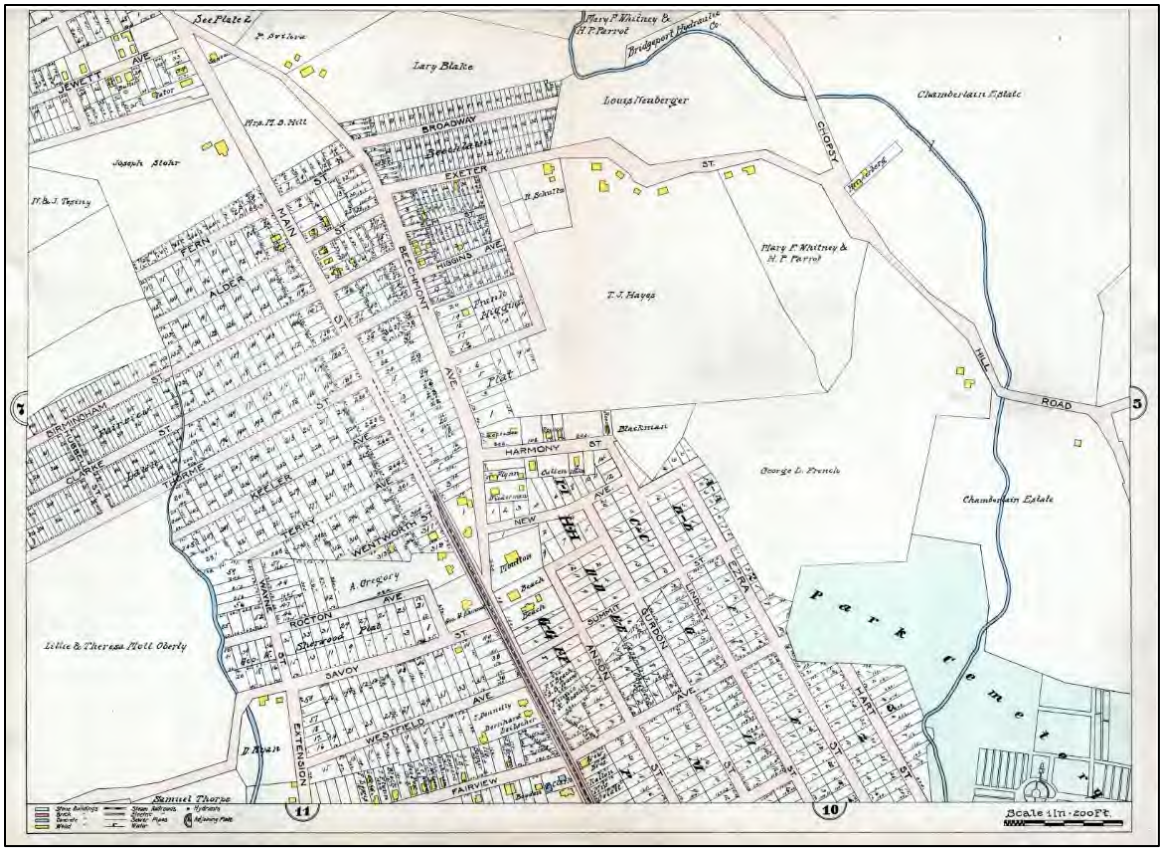


Figure 11c: The central and east part of the APE in Plate 6 of Kershaw's 1910 Bridgeport Atlas. Subdivisions can be seen in the left half of the map. While the lots have been laid out, few buildings have been constructed at this time.



Figure 11d: The west part of the middle of the APE in Plate 7 of Kershaw's 1910 Bridgeport Atlas. Subdivisions can be seen at the lower right corner of the map.



Figure 11e: The southwest part of the APE in Plate 11 of Kershaw's 1910 Bridgeport Atlas. Subdivisions can be seen in the right half of the map.

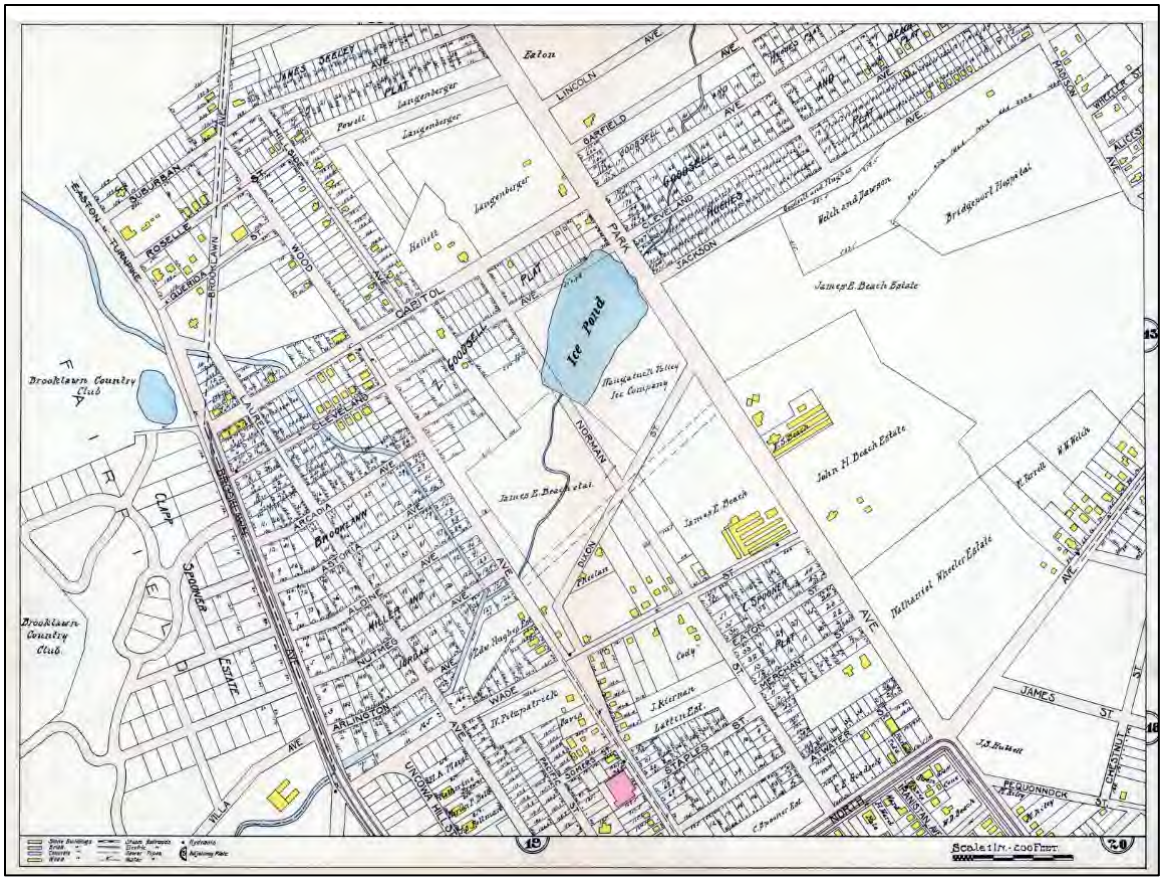


Figure 11f: The south end of the APE in Plate 12 of Kershaw's 1910 Bridgeport Atlas. Subdivisions can be seen at the lower right corner of the map.



Figure 12: The 1934 aerial photo of the north end of the APE. The Ox Stream Reservoir, which sat between the two visible reservoirs, has been drained.

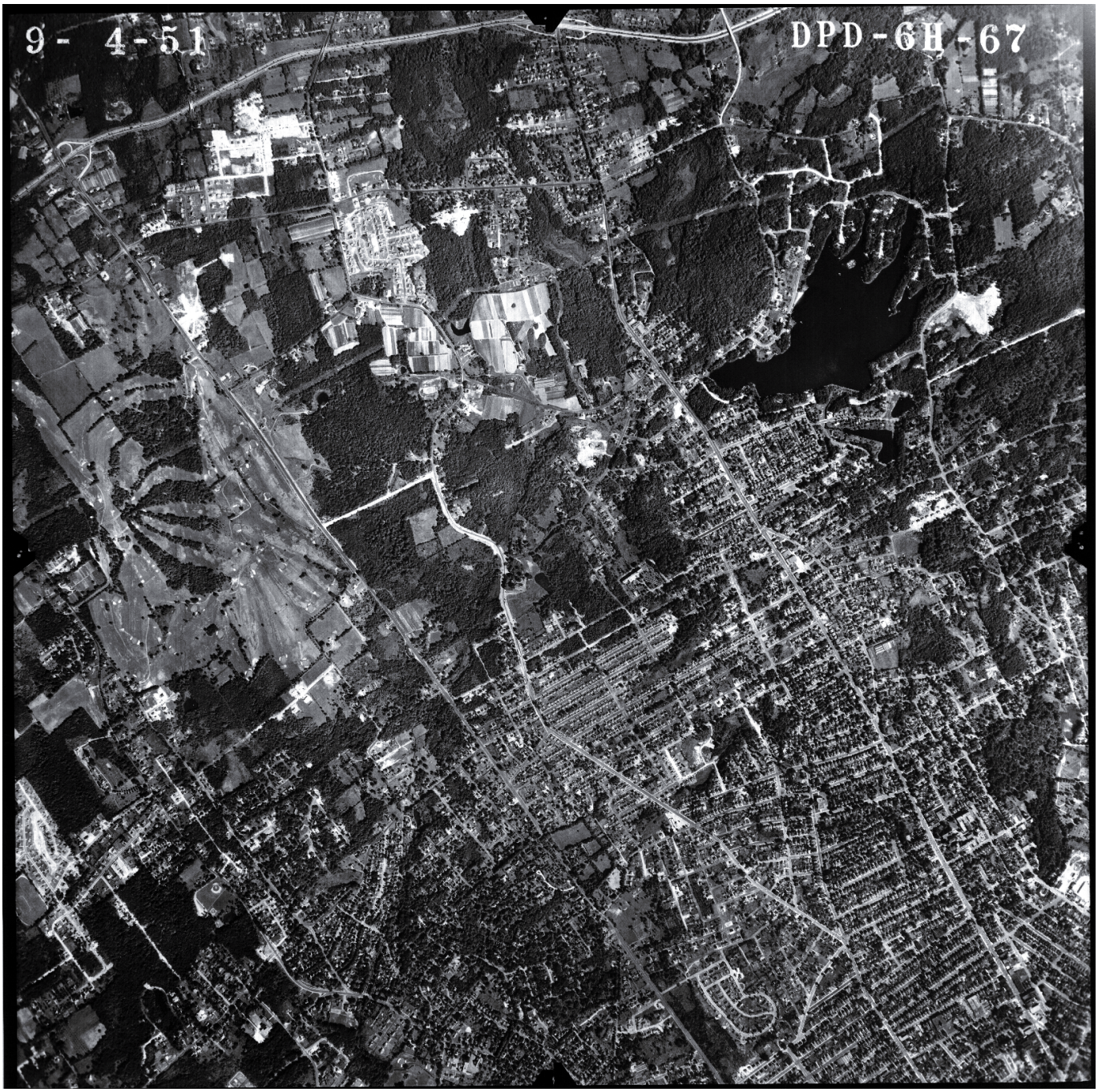


Figure 13: The 1951 aerial photo of the APE. The majority of the developments had been completed and street system is similar to the modern-day layout of the area.



Figure 14: The 1971 aerial photo of the APE. The strip mall along Man Street can been seen at the bottom center of the photograph.

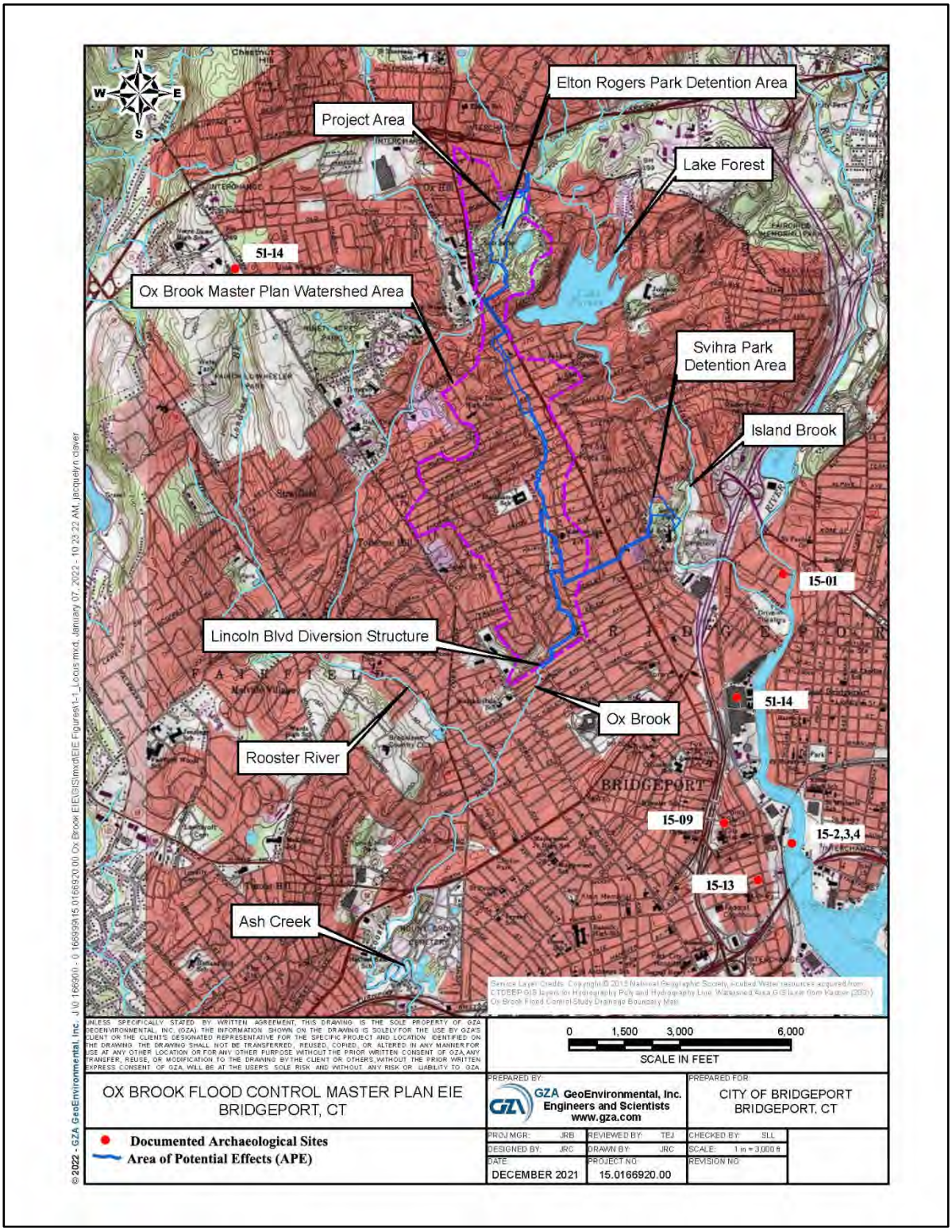
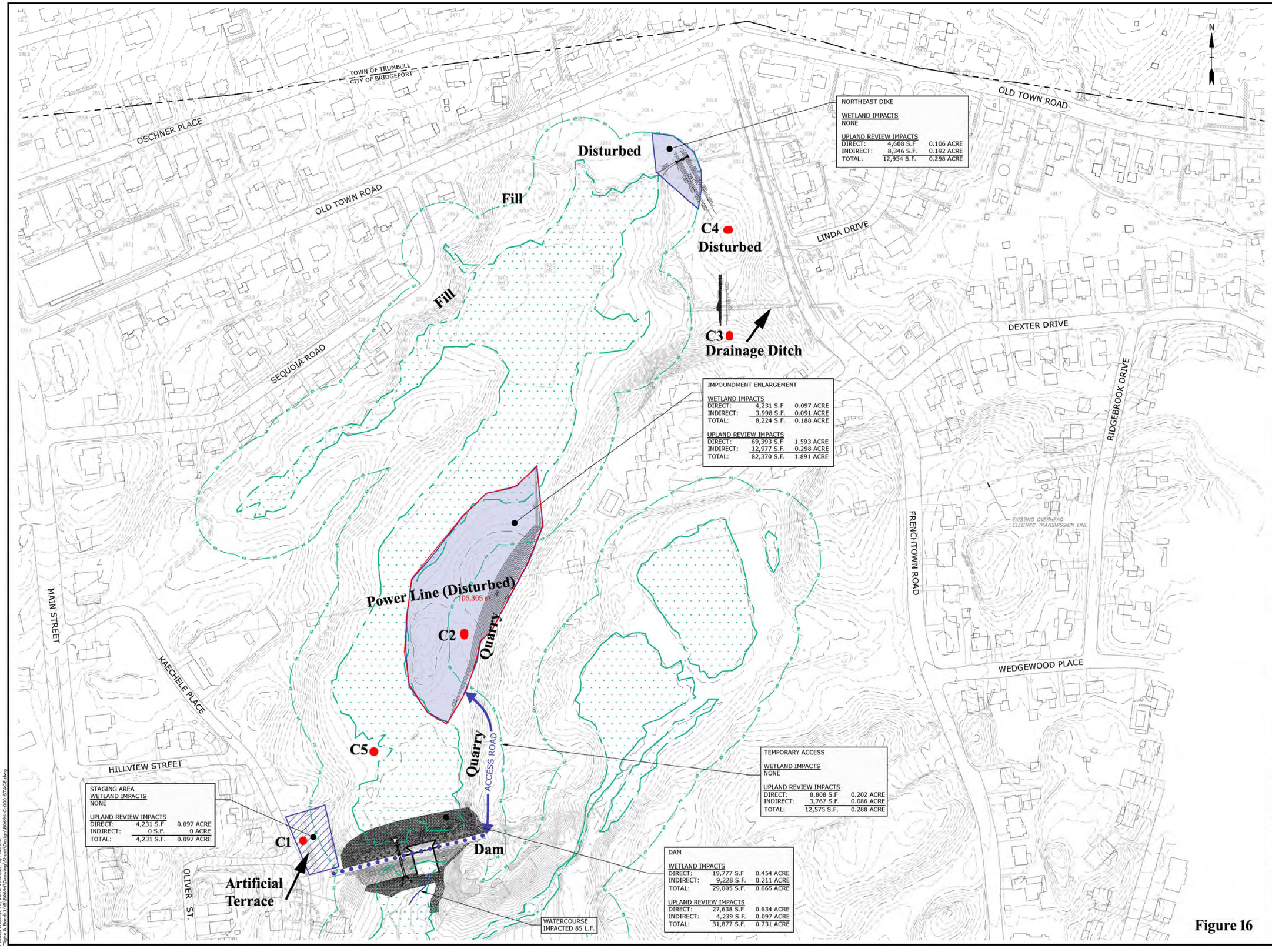


Figure 15: Documented archaeological sites (red dots) approximately within one mile from the APE (dark blue).



NORTHEAST DIKE

WETLAND IMPACTS
NONE

UPLAND REVIEW IMPACTS

DIRECT:	4,608 S.F	0.106 ACRE
INDIRECT:	8,346 S.F.	0.192 ACRE
TOTAL:	12,954 S.F.	0.298 ACRE

IMPOUNDMENT ENLARGEMENT

WETLAND IMPACTS

DIRECT:	4,231 S.F	0.097 ACRE
INDIRECT:	3,998 S.F.	0.091 ACRE
TOTAL:	8,224 S.F.	0.188 ACRE

UPLAND REVIEW IMPACTS

DIRECT:	69,393 S.F	1.593 ACRE
INDIRECT:	12,977 S.F.	0.298 ACRE
TOTAL:	82,370 S.F.	1.891 ACRE

TEMPORARY ACCESS

WETLAND IMPACTS
NONE

UPLAND REVIEW IMPACTS

DIRECT:	8,808 S.F	0.202 ACRE
INDIRECT:	3,767 S.F.	0.086 ACRE
TOTAL:	12,575 S.F.	0.288 ACRE

STAGING AREA
WETLAND IMPACTS
NONE

UPLAND REVIEW IMPACTS

DIRECT:	4,231 S.F	0.097 ACRE
INDIRECT:	0 S.F.	0 ACRE
TOTAL:	4,231 S.F.	0.097 ACRE

DAM

WETLAND IMPACTS

DIRECT:	19,777 S.F	0.454 ACRE
INDIRECT:	9,228 S.F.	0.211 ACRE
TOTAL:	29,005 S.F.	0.665 ACRE

UPLAND REVIEW IMPACTS

DIRECT:	27,638 S.F	0.634 ACRE
INDIRECT:	4,239 S.F.	0.097 ACRE
TOTAL:	31,877 S.F.	0.731 ACRE

WATERCOURSE IMPACTED 85 L.F.

Figure 16

Tighe&Bond
www.tighebond.com
1000 Bridgeport Avenue
Suite 320
Shelton, CT 06484
(203) 712-1100

SCALE IN FEET
0 100' 200'
GRAPHIC SCALE

Elton Rogers Park Dam Reconstruction

City of Bridgeport

Bridgeport, Connecticut

July 31, 2018

MARK	DATE	DESCRIPTION

PROJECT NO:	B0694
FILE:	B0694-C-000-STAGE.dwg
DRAWN BY:	MDS
CHECKED:	JAC
APPROVED:	DH

REGULATED ACTIVITIES MAP

SCALE: 1" = 100'

E1.00

09/11/2018

Last Saved: 7/18/2018
Plotted On:Sep 11, 2018-10:20am By: Canas1
Tighe & Bond:J:\B\B0694\Drawing\Sheet\Design\B0694-C-000-STAGE.dwg

AHS, Inc. **Soil Probe Log**

Project: Bridgeport Ox Brook **Site:** ---- **Town:** Bridgeport, CT **Phase:** 1A **Exc.** RH/QH **Date:** 11/18/21

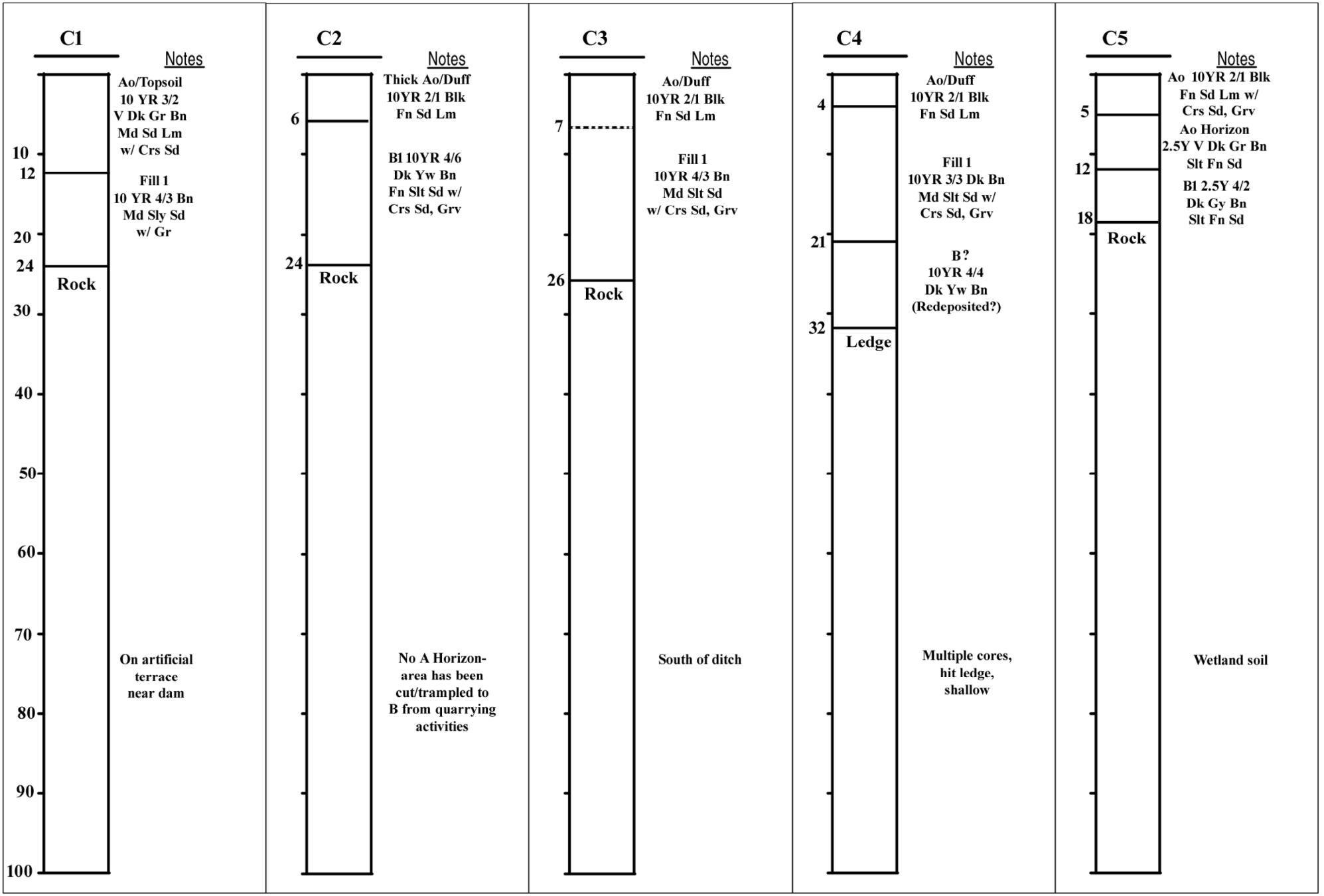


Figure 17

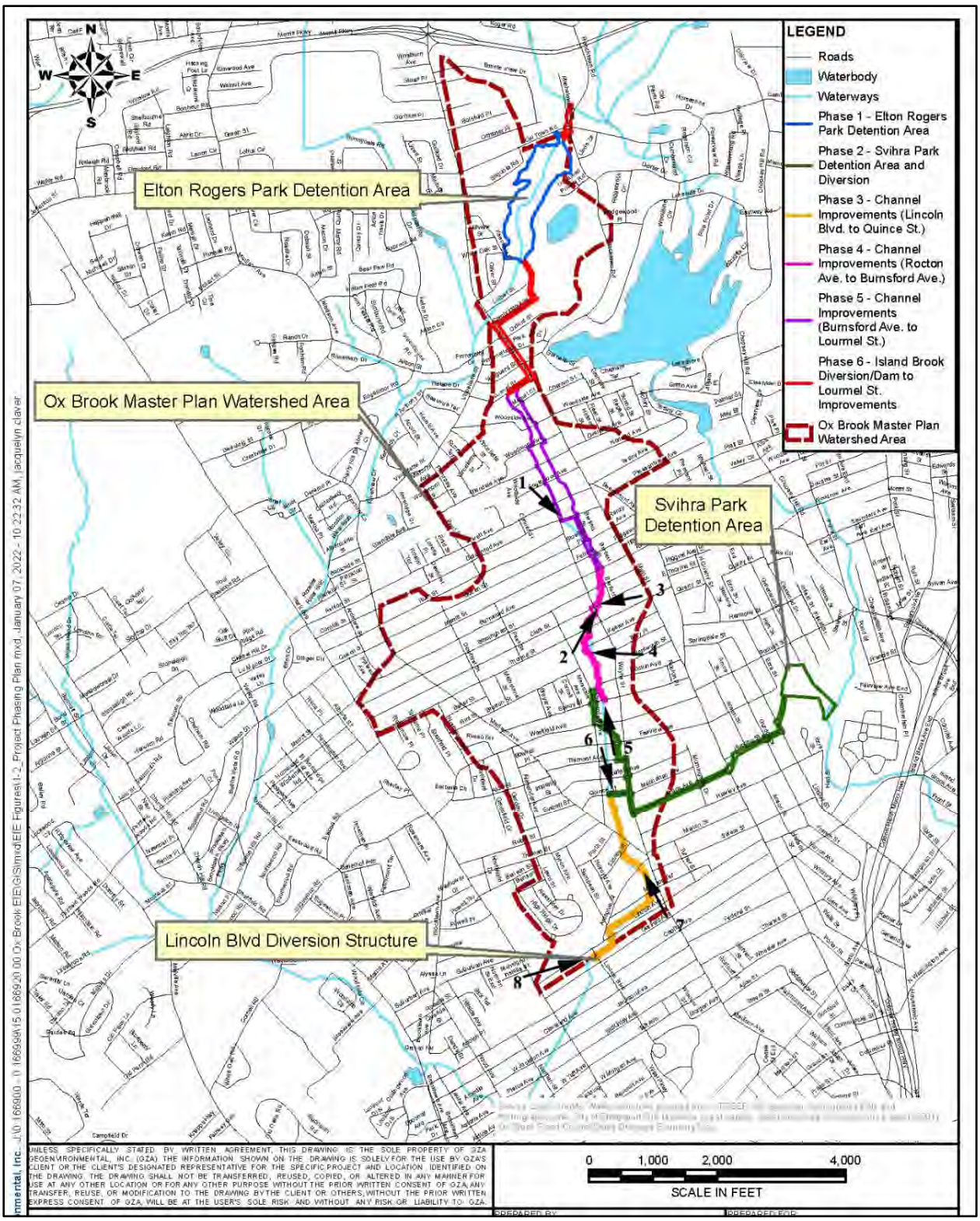


Figure 18: Numbered locations 1-8 of photographs documenting select locations of the Ox Brook APE between Elton Rogers Brook and Lincoln Boulevard from North to South.

APPENDIX B: Photographs



Photograph 1: The artificial terrace made from dry-laid fieldstone that is between the dam and Kaechele Place. This is part of the proposed Staging Area, view south.



Photograph 2: The top of the Bridgeport Hydraulic Company dam, taken from the west side, view east. Today there is a hiking trail over the top of it.



Photograph 3: The Bridgeport Hydraulic Dam viewed from the northeast side looking southwest. The center of the dam structure has undergone considerable collapse and erosion.



Photograph 4: A view of the large quarry on the east side of the APE. Note the irregularly shaped split rocks and the large drilling bore hole. The scale is 10 centimeters.



Photograph 5: A view of the quarry in the eastern part of the APE and associated with the proposed Impounding Enlargement area and proposed temporary access road, view south.



Photograph 6: a large and deep drainage ditch located in the northeastern section of the APE and the proposed Northeast Dike. The ditch appears to be modern and extends east to west from Frenchtown Road to the edge of the wetlands.



Photograph 7: Raised elevation area in the northeast section of the APE associated with the proposed Northeast Dike. This area was found to be associated with shallow ledge and extensively graded soils on top of it, view southeast.



Photograph 8: Area of Ox Brook at Bartlett Street and Stoehrs Place, view south. The west bank is bordered by a leaning pored cement retaining wall and the east bank is associated with trap rock.



Photograph 9: Section of Ox Brook at Wayne and Clark streets. This area has undergone relatively recent earthmoving associated with yard landscaping to the edges of the brook. A cast iron utility pipe also crosses through this area, view northeast.



Photograph 10: Ox Brook at Clark Street and Wayne Street, facing west. This area has been heavily impacted by yard landscaping including the construction of a fieldstone retaining wall on the north bank and large blocks of stone set into the south bank.



Photograph 11: A section of Ox Brook that is exposed at the end of Keeler Avenue, view west. This narrow section of the brook as been heavily landscaped up to its edges with retaining walls.



Photograph 12: This section of Ox Brook at Savoy Street and Amsterdam Avenue has been modified with high retaining walls made from cement, fieldstones, and bricks, view north. On the east side of the brook is pavement on the west side is landscaped lawn. Note the small ornamental bridge spanning the brook.



Photograph 13: Ox Brook is exposed in a section at Amsterdam Avenue and Quince Street. These high stone and cement retaining walls appear to have been built about the same time. view south. On the east side of the brook is a parking lot and on the west side is a tall yard fence.



Photograph 14: At Wayne Steet and Arlington Street Ox Brook can be seen to be deeper and wider. Consequently, the retaining walls are also higher. The walls in this section of Ox Brook were methodically built of stone and cement and are over six feet high, view northwest. Stones were set at the top of the west side to form a curb for the driveway.



Photograph 15: At the southernmost end of the APE is Lincoln Boulevard and Garfield Avenue, view east. This area has been thoroughly landscaped to accommodate house lots and parking. The brook's retaining walls are high and made from poured cement.



Photograph 16: Looking east along the top of the dam. It remains a clearly identifiable feature in the landscape.



Photograph 17: Looking north at the south (downstream) side of the dam. Evidence of its stepped face are still visible.



Photograph 18: Detail of the dry-laid masonry of the dam face. Photograph looking north at the south (downstream) side.

APPENDIX C: Table of Pre-1976 Houses in Area of Potential Effects

Table 1 – List of pre-1976 Houses in APE arranged by address; photographs follow same order

Map	Block	Lot	Street Number	Street Name	Assessor Construction Date
52	2218	5	48	AMSTERDAM	1968
52	2218	3	68	AMSTERDAM	1918
52	2218	2	78	AMSTERDAM	1918
52	2218	1	88	AMSTERDAM	1918
58	2230	10	294	AMSTERDAM	1926
58	2230	1	308	AMSTERDAM	1926
58	2266	2	412	AMSTERDAM	1950
58	2266	15	434	AMSTERDAM	1933
58	2265	19	442	AMSTERDAM	1938
58	2265	18	450	AMSTERDAM	1933
58	2265	17	460	AMSTERDAM	1938
58	2265	15	480	AMSTERDAM	1951
58	2265	14	494	AMSTERDAM	1932
58	2265	12	504	AMSTERDAM	1960
58	2265	34	520	AMSTERDAM	1952
58	2265	33	534	AMSTERDAM	1951
58	2271	9	550	AMSTERDAM	1968
65	2271	7	560	AMSTERDAM	1956
52	2213	14	24	ARLINGTON	1916
52	2210	20	37	ARLINGTON	1930
52	2213	13	46	ARLINGTON	1912
52	2210	54	51	ARLINGTON	1910
52	2210	56	85	ARLINGTON	1961
52	2272	37	205	ARLINGTON	1907
65	2372	18	195	BIRMINGHAM	1953
65	2373	15	208	BIRMINGHAM	1953
65	2373	13	210	BIRMINGHAM	1947
65	2372	21	233	BIRMINGHAM	1954
59	2223	17	24	BRONX	1913
59	2216	13	29	BRONX	1919
59	2223	16	34	BRONX	1913
59	2216	14	37	BRONX	1913
59	2223	15	38	BRONX	1914
59	2223	14	44	BRONX	1918
59	2216	15	45	BRONX	1914
59	2223	13	50	BRONX	1915
59	2223	12	52	BRONX	1915
59	2216	16	53	BRONX	1918

Table 1 – List of pre-1976 Houses in APE arranged by address; photographs follow same order

Map	Block	Lot	Street Number	Street Name	Assessor Construction Date
59	2216	17	57	BRONX	1914
59	2216	18	71	BRONX	1905
59	2216	19	79	BRONX	1918
59	2216	1	87	BRONX	1918
52	2217	31	161	BRONX	1915
52	2217	32	171	BRONX	1919
52	2217	33	181	BRONX	1914
52	2217	34	191	BRONX	1927
52	2217	35	201	BRONX	1919
52	2238	11	232	BRONX	1913
52	2238	10	242	BRONX	1915
52	2238	9	252	BRONX	1915
52	2238	8	262	BRONX	1919
52	2238	4	306	BRONX	1924
81	2608	17	301	CAMBRIDGE	1920
81	2607	13	302	CAMBRIDGE	1930
81	2608	18	311	CAMBRIDGE	1940
81	2607	12	312	CAMBRIDGE	1923
81	2607	11	324	CAMBRIDGE	1955
81	2608	19	329	CAMBRIDGE	1922
81	2607	10	336	CAMBRIDGE	1948
81	2607	9	344	CAMBRIDGE	1949
65	2372	15	120	CLARKE	1959
65	2371	24	153	CLARKE	1962
65	2326	27	199	CLARKE	1950
73	2307	16	55	ENGLEWOOD	1925
73	2308	5	66	ENGLEWOOD	1897
73	2307	17	67	ENGLEWOOD	1958
73	2308	4	76	ENGLEWOOD	1910
73	2307	17	77	ENGLEWOOD	1887
73	2308	3	82	ENGLEWOOD	1918
73	2307	18	85	ENGLEWOOD	1940
73	2308	2	92	ENGLEWOOD	1914
73	2307	1	97	ENGLEWOOD	1940
73	2318	11	106	ENGLEWOOD	1955
73	2319	14	107	ENGLEWOOD	1960
59	2230	13	558	FAIRVIEW	1961
65	2323	1	99	FERN	1962

Table 1 – List of pre-1976 Houses in APE arranged by address; photographs follow same order

Map	Block	Lot	Street Number	Street Name	Assessor Construction Date
Trumbull		18	13	FRENCHTOWN ROAD	1769
46	2205	8	554	GARFIELD	1942
46	2205	7	560	GARFIELD	1918
46	2205	6	572	GARFIELD	1907
46	2205	5	578	GARFIELD	1943
46	2205	4	586	GARFIELD	1943
45	2205	3	596	GARFIELD	1906
45	2205	2	602	GARFIELD	1940
73	2309	5	56	GLENDALE	1909
73	2309	4	64	GLENDALE	1913
73	2308	15	65	GLENDALE	1938
73	2308	16	75	GLENDALE	1957
73	2309	3	84	GLENDALE	1950
73	2308	17	85	GLENDALE	1941
73	2309	2	94	GLENDALE	1939
73	2317	6	104	GLENDALE	1948
73	2318	12	105	GLENDALE	1970
73	2306	5	72	GOLDENROD	1966
73	2306	5	82	GOLDENROD	1967
73	2306	24	96	GOLDENROD	1947
73	2306	25	104	GOLDENROD	1959
65	2306	18	116	GOLDENROD	1951
59	2123	14	60	HUNTING	1915
59	2123	13	66	HUNTING	1917
59	2123	12	74	HUNTING	1920
59	2123	11	84	HUNTING	1920
59	2123	10	88	HUNTING	1911
59	2123	9	98	HUNTING	1918
59	2123	8	104	HUNTING	1911
73	2306	13	43	JEWETT	1899
73	2306	14	49	JEWETT	1892
73	2307	6	54	JEWETT	1913
73	2307	5	56	JEWETT	1913
73	2307	2	60	JEWETT	1913
73	2307	4	84	JEWETT	1940
73	2306	15	89	JEWETT	1917
73	2307	3	90	JEWETT	1919

Table 1 – List of pre-1976 Houses in APE arranged by address; photographs follow same order

Map	Block	Lot	Street Number	Street Name	Assessor Construction Date
73	2306	23	91	JEWETT	1949
73	2306	17	105	JEWETT	1939
73	2319	13	114	JEWETT	1943
73	2306	1	115	JEWETT	1952
65	2271	12	208	KEELER	1951
65	2271	11	224	KEELER	1971
58	2265	6	235	KEELER	1958
52	2272	20	394	LINCOLN	1932
52	2272	19	400	LINCOLN	1932
52	2272	18	406	LINCOLN	1932
52	2272	17	410	LINCOLN	1932
52	2272	15	430	LINCOLN	1949
52	2272	14	440	LINCOLN	1964
52	2272	13	452	LINCOLN	1928
52	2272	11	470	LINCOLN	1928
52	2272	10	476	LINCOLN	1928
52	2272	9	492	LINCOLN	1947
52	2272	7	502	LINCOLN	1948
52	2272	6	514	LINCOLN	1953
46	2272	41	528	LINCOLN	1951
46	2272	3	536	LINCOLN	1950
46	2205	43	553	LINCOLN	1952
46	2205	46	577	LINCOLN	1949
45	2205	48	589	LINCOLN	1952
45	2205	1	601	LINCOLN	1944
45	2205	1	615	LINCOLN	1973
59	2125	47	950	LINDLEY	1956
59	2125	46	960	LINDLEY	1923
59	2125	7	966	LINDLEY	1923
59	2125	49	994	LINDLEY	1960
59	2125	4	1002	LINDLEY	1933
73	2312	21	45	LOURMEL	1919
73	2313	11	62	LOURMEL	1964
73	2312	26	91	LOURMEL	1955
52	2210	11	236	MADISON	1943
52	2210	10	244	MADISON	1942
52	2272	27	247	MADISON	1930
52	2272	29	269	MADISON	1940

Table 1 – List of pre-1976 Houses in APE arranged by address; photographs follow same order

Map	Block	Lot	Street Number	Street Name	Assessor Construction Date
52	2272	30	275	MADISON	1966
52	2272	31	291	MADISON	1940
52	2272	32	301	MADISON	1946
52	2272	33	309	MADISON	1947
52	2272	34	327	MADISON	1941
52	2272	35	329	MADISON	1940
52	2272	36	341	MADISON	1941
52	2272	39	355	MADISON	1941
52	2272	40	365	MADISON	1947
52	2210	46	1115	MADISON	1953
52	2210	47	1123	MADISON	1926
52	2210	48	1135	MADISON	1926
52	2210	49	1147	MADISON	1962
52	2210	50	1155	MADISON	1931
52	2210	51	1171	MADISON	1963
52	2210	52	1175	MADISON	1939
52	2210	53	1183	MADISON	1941
52	2218	34	1330	MADISON	1941
52	2218	11	1340	MADISON	1972
59	2216	12	2837	MAIN	1914
59	2223	18	2857	MAIN	1910
81	2611	3	4196	MAIN	1959
81	2314	14	4281	MAIN	1960
81	2314	16	4301	MAIN	1970
52	2238	1	205	MANHATTAN	1929
73	2312	12	52	MARCEL	1920
73	2312	11	56	MARCEL	1913
73	2311	18	59	MARCEL	1949
73	2311	3	75	MARCEL	1957
73	2312	9	90	MARCEL	1955
73	2311	24	95	MARCEL	1957
52	2218	39	45	QUINCE	1949
58	2265	21	252	ROCTON	1950
58	2266	13	255	ROCTON	1951
58	2266	5	264	SAVOY	1955
58	2266	4	286	SAVOY	1960
58	2270	3	314	SAVOY	1941
89	2600	16	148	SEQUOIA	1962

Table 1 – List of pre-1976 Houses in APE arranged by address; photographs follow same order

Map	Block	Lot	Street Number	Street Name	Assessor Construction Date
89	2600	15	170	SEQUOIA	1962
52	2213	21	29	SIDNEY	1941
52	2213	22	49	SIDNEY	1960
65	2322	11	97	STOEHRS	1957
65	2326	11	254	THORME	1931
65	2326	10	262	THORME	1931
65	2326	9	268	THORME	1951
65	2271	19	281	THORME	1949
65	2271	20	293	THORME	1970
65	2271	1	315	THORME	1970
65	2271	2	323	THORME	1954
52	2218	26	107	WAYNE	1925
52	2218	27	117	WAYNE	1926
52	2238	3	156	WAYNE	1937
52	2218	31	161	WAYNE	1930
52	2218	32	171	WAYNE	1929
52	2218	33	181	WAYNE	1926
59	2221	10	231	WAYNE	1927
59	2224	6	254	WAYNE	1920
59	2224	5	266	WAYNE	1923
59	2224	4	278	WAYNE	1920
59	2224	3	288	WAYNE	1923
59	2224	2	298	WAYNE	1926
59	2228	7	305	WAYNE	1925
59	2224	36	308	WAYNE	1955
59	2228	8	317	WAYNE	1920
59	2228	9	327	WAYNE	1917
59	2228	10	341	WAYNE	1920
59	2230	12	361	WAYNE	1921
59	2230	5	371	WAYNE	1852
59	2230	6	391	WAYNE	1900
58	2265	26	585	WAYNE	1926
58	2265	27	593	WAYNE	1914
58	2265	28	603	WAYNE	1917
58	2265	29	615	WAYNE	1914
65	2372	12	800	WAYNE	1947
59	2230	8	297	WESTFIELD	1925
58	2230	9	311	WESTFIELD	1926

Table 1 – List of pre-1976 Houses in APE arranged by address; photographs follow same order

Map	Block	Lot	Street Number	Street Name	Assessor Construction Date
73	2309	15	49	WOODMONT	1907
73	2310	6	52	WOODMONT	1924
73	2309	16	61	WOODMONT	1912
73	2310	5	64	WOODMONT	1909
73	2310	4	74	WOODMONT	1923
73	2309	16	75	WOODMONT	1972
73	2309	18	83	WOODMONT	1935
73	2310	3	84	WOODMONT	1928
73	2317	7	105	WOODMONT	1955
73	2310	13	347	WOODSIDE	1949
73	2311	3	382	WOODSIDE	1909
73	2310	16	383	WOODSIDE	1951

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Address: 48 AMSTERDAM AV
Map/Block/Lot/Unit: 52-2218-5

Year Built (Assessor): 1968
Description (Assessor): Apartments

Setting: Residential neighborhood of one- and two-story Queen Anne-, Cape-, and Colonial-style buildings built ca. 1918-1968 many of which have been updated with modern siding and/or windows



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Address: 68 AMSTERDAM AV
Map/Block/Lot/Unit: 52-2218-3

Year Built (Assessor): 1918
Description (Assessor): Three Family

Setting: Residential neighborhood of one- and two-story Queen Anne-, Cape-, and Colonial-style buildings built ca. 1918-1968 many of which have been updated with modern siding and/or windows



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Address: 78 AMSTERDAM AV
Map/Block/Lot/Unit: 52-2218-2

Year Built (Assessor): 1918
Description (Assessor): Three Family

Setting: Residential neighborhood of one- and two-story Queen Anne-, Cape-, and Colonial-style buildings built ca. 1918-1968 many of which have been updated with modern siding and/or windows



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Address: 88 AMSTERDAM AV
Map/Block/Lot/Unit: 52-2218-1

Year Built (Assessor): 1918
Description (Assessor): Three Family

Setting: Residential neighborhood of one- and two-story Queen Anne-, Cape-, and Colonial-style buildings built ca. 1918-1968 many of which have been updated with modern siding and/or windows



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 294 AMSTERDAM AV
Map/Block/Lot/Unit: 58-2230-10

Year Built (Assessor): 1926
Description (Assessor): Colonial

Setting: Residential neighborhood of one- and two-story Queen Anne-, Cape-, and Colonial-style buildings built ca. 1918-1968 many of which have been updated with modern siding and/or windows



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 308 AMSTERDAM AV
Map/Block/Lot/Unit: 58-2230-1

Year Built (Assessor): 1926
Description (Assessor): Colonial

Setting: Residential neighborhood of one- and two-story Queen Anne-, Cape-, and Colonial-style buildings built ca. 1918-1968 many of which have been updated with modern siding and/or windows



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 412 AMSTERDAM AV
Map/Block/Lot/Unit: 58-2266-2

Year Built (Assessor): 1950
Description (Assessor): Colonial

Setting: Residential neighborhood of one- and two-story Queen Anne-, Cape-, and Colonial-style buildings built ca. 1918-1968 many of which have been updated with modern siding and/or windows



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 434 AMSTERDAM AV
Map/Block/Lot/Unit: 58-2266-15

Year Built (Assessor): 1933
Description (Assessor): Colonial

Setting: Residential neighborhood of one- and two-story Queen Anne-, Cape-, and Colonial-style buildings built ca. 1918-1968 many of which have been updated with modern siding and/or windows



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Address: 442 AMSTERDAM AV
Map/Block/Lot/Unit: 58-2265-19

Year Built (Assessor): 1938
Description (Assessor): Colonial

Setting: Residential neighborhood of one- and two-story Queen Anne-, Cape-, and Colonial-style buildings built ca. 1918-1968 many of which have been updated with modern siding and/or windows



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Address: 450 AMSTERDAM AV
Map/Block/Lot/Unit: 58-2265-18

Year Built (Assessor): 1933
Description (Assessor): Colonial

Setting: Residential neighborhood of one- and two-story Queen Anne-, Cape-, and Colonial-style buildings built ca. 1918-1968 many of which have been updated with modern siding and/or windows



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 460 AMSTERDAM AV
Map/Block/Lot/Unit: 58-2265-17

Year Built (Assessor): 1938
Description (Assessor): Colonial

Setting: Residential neighborhood of one- and two-story Queen Anne-, Cape-, and Colonial-style buildings built ca. 1918-1968 many of which have been updated with modern siding and/or windows



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Address: 480 AMSTERDAM AV
Map/Block/Lot/Unit: 58-2265-15

Year Built (Assessor): 1951
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-story Queen Anne-, Cape-, and Colonial-style buildings built ca. 1918-1968 many of which have been updated with modern siding and/or windows



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 494 AMSTERDAM AV
Map/Block/Lot/Unit: 58-2265-14

Year Built (Assessor): 1932
Description (Assessor): Colonial

Setting: Residential neighborhood of one- and two-story Queen Anne-, Cape-, and Colonial-style buildings built ca. 1918-1968 many of which have been updated with modern siding and/or windows



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Address: 504 AMSTERDAM AV
Map/Block/Lot/Unit: 58-2265-12

Year Built (Assessor): 1960
Description (Assessor): Ranch

Setting: Residential neighborhood of one- and two-story Queen Anne-, Cape-, and Colonial-style buildings built ca. 1918-1968 many of which have been updated with modern siding and/or windows



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Address: 520 AMSTERDAM AV
Map/Block/Lot/Unit: 58-2265-34

Year Built (Assessor): 1952
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-story Queen Anne-, Cape-, and Colonial-style buildings built ca. 1918-1968 many of which have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 534 AMSTERDAM AV
Map/Block/Lot/Unit: 58-2265-33

Year Built (Assessor): 1951
Description (Assessor): Colonial

Setting: Residential neighborhood of one- and two-story Queen Anne-, Cape-, and Colonial-style buildings built ca. 1918-1968 many of which have been updated with modern siding and/or windows



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Address: 550 AMSTERDAM AV
Map/Block/Lot/Unit: 58-2271-9

Year Built (Assessor): 1968
Description (Assessor): Split-Level

Setting: Residential neighborhood of one- and two-story Queen Anne-, Cape-, and Colonial-style buildings built ca. 1918-1968 many of which have been updated with modern siding and/or windows



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 560 AMSTERDAM AV
Map/Block/Lot/Unit: 65-2271-7

Year Built (Assessor): 1956
Description (Assessor): Split-Level

Setting: Residential neighborhood of one- and two-story Queen Anne-, Cape-, and Colonial-style buildings built ca. 1918-1968 many of which have been updated with modern siding and/or windows



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Address: 24 ARLINGTON ST
Map/Block/Lot/Unit: 52-2213-14

Year Built (Assessor): 1916
Description (Assessor): Three Family

Setting: Residential neighborhood of one- and two-story Cape- and Colonial-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 37 ARLINGTON ST
Map/Block/Lot/Unit: 52-2210-20

Year Built (Assessor): 1930
Description (Assessor): Conventional

Setting: Residential neighborhood of one- and two-story Cape- and Colonial-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 46 ARLINGTON ST
Map/Block/Lot/Unit: 52-2213-13

Year Built (Assessor): 1912
Description (Assessor): Bungalow

Setting: Residential neighborhood of one- and two-story Cape- and Colonial-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 51 ARLINGTON ST
Map/Block/Lot/Unit: 52-2210-54

Year Built (Assessor): 1910
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Cape- and Colonial-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 85 ARLINGTON ST
Map/Block/Lot/Unit: 52-2210-56

Year Built (Assessor): 1961
Description (Assessor): Churches

Setting: Residential neighborhood of one- and two-story Cape- and Colonial-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 205 ARLINGTON ST
Map/Block/Lot/Unit: 52-2272-37

Year Built (Assessor): 1907
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Cape- and Colonial-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 195 BIRMINGHAM ST
Map/Block/Lot/Unit: 65-2372-18

Year Built (Assessor): 1953
Description (Assessor): Ranch

Setting: Residential neighborhood of predominantly Cape- and Ranch-style buildings, including two- and three-unit buildings, built in the first quarter of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 208 BIRMINGHAM ST
Map/Block/Lot/Unit: 65-2373-15

Year Built (Assessor): 1953
Description (Assessor): Cape Cod

Setting: Residential neighborhood of predominantly Cape- and Ranch-style buildings, including two- and three-unit buildings, built in the first quarter of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 210 BIRMINGHAM ST
Map/Block/Lot/Unit: 65-2373-13

Year Built (Assessor): 1947
Description (Assessor): Cape Cod

Setting: Residential neighborhood of predominantly Cape- and Ranch-style buildings, including two- and three-unit buildings, built in the first quarter of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 233 BIRMINGHAM ST
Map/Block/Lot/Unit: 65-2372-21

Year Built (Assessor): 1954
Description (Assessor): Cape Cod

Setting: Residential neighborhood of predominantly Cape- and Ranch-style buildings, including two- and three-unit buildings, built in the first quarter of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 24 BRONX AV
Map/Block/Lot/Unit: 59-2223-17

Year Built (Assessor): 1913
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 29 BRONX AV
Map/Block/Lot/Unit: 59-2216-13

Year Built (Assessor): 1919
Description (Assessor): Three Family

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 34 BRONX AV
Map/Block/Lot/Unit: 59-2223-16

Year Built (Assessor): 1913
Description (Assessor): Two Family

Setting:

Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 37 BRONX AV
Map/Block/Lot/Unit: 59-2216-14

Year Built (Assessor): 1913
Description (Assessor): Three Family

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 38 BRONX AV
Map/Block/Lot/Unit: 59-2223-15

Year Built (Assessor): 1914
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 44 BRONX AV
Map/Block/Lot/Unit: 59-2223-14

Year Built (Assessor): 1918
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 45 BRONX AV
Map/Block/Lot/Unit: 59-2216-15

Year Built (Assessor): 1914
Description (Assessor): Three Family

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 50 BRONX AV
Map/Block/Lot/Unit: 59-2223-13

Year Built (Assessor): 1915
Description (Assessor): Conventional

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 52 BRONX AV
Map/Block/Lot/Unit: 59-2223-12

Year Built (Assessor): 1915
Description (Assessor): Conventional

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 53 BRONX AV
Map/Block/Lot/Unit: 59-2216-16

Year Built (Assessor): 1918
Description (Assessor): Three Family

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 57 BRONX AV
Map/Block/Lot/Unit: 59-2216-17

Year Built (Assessor): 1914
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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Address: 71 BRONX AV
Map/Block/Lot/Unit: 59-2216-18

Year Built (Assessor): 1905
Description (Assessor): Three Family

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 79 BRONX AV
Map/Block/Lot/Unit: 59-2216-19

Year Built (Assessor): 1918
Description (Assessor): Three Family

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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Address: 87 BRONX AV
Map/Block/Lot/Unit: 59-2216-1

Year Built (Assessor): 1918
Description (Assessor): Three Family

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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Address: 161 BRONX AV
Map/Block/Lot/Unit: 52-2217-31

Year Built (Assessor): 1915
Description (Assessor): Three Family

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 171 BRONX AV
Map/Block/Lot/Unit: 52-2217-32

Year Built (Assessor): 1919
Description (Assessor): Three Family

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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Address: 181 BRONX AV
Map/Block/Lot/Unit: 52-2217-33

Year Built (Assessor): 1914
Description (Assessor): Three Family

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 191 BRONX AV
Map/Block/Lot/Unit: 52-2217-34

Year Built (Assessor): 1927
Description (Assessor): Conventional

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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Address: 201 BRONX AV
Map/Block/Lot/Unit: 52-2217-35

Year Built (Assessor): 1919
Description (Assessor): Three Family

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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Address: 232 BRONX AV
Map/Block/Lot/Unit: 52-2238-11

Year Built (Assessor): 1913
Description (Assessor): Three Family

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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Address: 242 BRONX AV
Map/Block/Lot/Unit: 52-2238-10

Year Built (Assessor): 1915
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 252 BRONX AV
Map/Block/Lot/Unit: 52-2238-9

Year Built (Assessor): 1915
Description (Assessor): Three Family

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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Address: 262 BRONX AV
Map/Block/Lot/Unit: 52-2238-8

Year Built (Assessor): 1919
Description (Assessor): Three Family

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 306 BRONX AV
Map/Block/Lot/Unit: 52-2238-4

Year Built (Assessor): 1924
Description (Assessor): Conventional

Setting: Residential neighborhood of one- and two-story Craftsman- and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with enclosed porches, modern siding, and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 301 CAMBRIDGE ST
Map/Block/Lot/Unit: 81-2608-17

Year Built (Assessor): 1920
Description (Assessor): Conventional

Setting: Residential neighborhood of Cape-, Colonial, and Craftsman-style buildings. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 302 CAMBRIDGE ST
Map/Block/Lot/Unit: 81-2607-13

Year Built (Assessor): 1930
Description (Assessor): Conventional

Setting: Residential neighborhood of Cape-, Colonial, and Craftsman-style buildings. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 311 CAMBRIDGE ST
Map/Block/Lot/Unit: 81-2608-18

Year Built (Assessor): 1940
Description (Assessor): Colonial

Setting: Residential neighborhood of Cape-, Colonial, and Craftsman-style buildings. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 312 CAMBRIDGE ST
Map/Block/Lot/Unit: 81-2607-12

Year Built (Assessor): 1923
Description (Assessor): Conventional

Setting: Residential neighborhood of Cape-, Colonial, and Craftsman-style buildings. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 324 CAMBRIDGE ST
Map/Block/Lot/Unit: 81-2607-11

Year Built (Assessor): 1955
Description (Assessor): Cape Cod

Setting: Residential neighborhood of Cape-, Colonial, and Craftsman-style buildings. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 329 CAMBRIDGE ST
Map/Block/Lot/Unit: 81-2608-19

Year Built (Assessor): 1922
Description (Assessor): Conventional

Setting: Residential neighborhood of Cape-, Colonial, and Craftsman-style buildings. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 336 CAMBRIDGE ST
Map/Block/Lot/Unit: 81-2607-10

Year Built (Assessor): 1948
Description (Assessor): Cape Cod

Setting: Residential neighborhood of Cape-, Colonial, and Craftsman-style buildings. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 344 CAMBRIDGE ST
Map/Block/Lot/Unit: 81-2607-9

Year Built (Assessor): 1949
Description (Assessor): Cape Cod

Setting: Residential neighborhood of Cape-, Colonial, and Craftsman-style buildings. Many have been updated with modern siding and/or windows.



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Address: 120 CLARKE ST
Map/Block/Lot/Unit: 65-2372-15

Year Built (Assessor): 1959
Description (Assessor): Split-Level

Setting: Residential neighborhood of one- and two-story Ranch-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 153 CLARKE ST
Map/Block/Lot/Unit: 65-2371-24

Year Built (Assessor): 1962
Description (Assessor): Ranch

Setting: Residential neighborhood of one- and two-story Ranch-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 199 CLARKE ST
Map/Block/Lot/Unit: 65-2326-27

Year Built (Assessor): 1950
Description (Assessor): Ranch

Setting: Residential neighborhood of one- and two-story Ranch-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 55 ENGLEWOOD AV
Map/Block/Lot/Unit: 73-2307-16

Year Built (Assessor): 1925
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Colonial-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 66 ENGLEWOOD AV
Map/Block/Lot/Unit: 73-2308-5

Year Built (Assessor): 1897
Description (Assessor): Conventional

Setting: Residential neighborhood of one- and two-story Colonial-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 67 ENGLEWOOD AV
Map/Block/Lot/Unit: 73-2307-17

Year Built (Assessor): 1958
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-story Colonial-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 76 ENGLEWOOD AV
Map/Block/Lot/Unit: 73-2308-4

Year Built (Assessor): 1910
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Colonial-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 77 ENGLEWOOD AV
Map/Block/Lot/Unit: 73-2307-17

Year Built (Assessor): 1887
Description (Assessor): Colonial

Setting: Residential neighborhood of one- and two-story Colonial-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 82 ENGLEWOOD AV
Map/Block/Lot/Unit: 73-2308-3

Year Built (Assessor): 1918
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Colonial-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 85 ENGLEWOOD AV
Map/Block/Lot/Unit: 73-2307-18

Year Built (Assessor): 1940
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Colonial-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 92 ENGLEWOOD AV
Map/Block/Lot/Unit: 73-2308-2

Year Built (Assessor): 1914
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Colonial-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 97 ENGLEWOOD AV
Map/Block/Lot/Unit: 73-2307-1

Year Built (Assessor): 1940
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Colonial-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 106 ENGLEWOOD AV
Map/Block/Lot/Unit: 73-2318-11

Year Built (Assessor): 1955
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-story Colonial-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 107 ENGLEWOOD AV
Map/Block/Lot/Unit: 73-2319-14

Year Built (Assessor): 1960
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Colonial-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 558 FAIRVIEW AV
Map/Block/Lot/Unit: 59-2230-13

Year Built (Assessor): 1961
Description (Assessor): Split-Level

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows. A three-story brick elementary school and a combined commercial/residential building sit at the intersection with Wayne Street.



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Address: 99 FERN ST
Map/Block/Lot/Unit: 65-2323-1

Year Built (Assessor): 1962
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one-story Ranch- and Cape-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 13 FRENCHTOWN ROAD
Map/Block/Lot/Unit: F--18

Year Built (Assessor): 1769
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one-story Ranch- and Cape-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 554 GARFIELD AV
Map/Block/Lot/Unit: 46-2205-8

Year Built (Assessor): 1942
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Colonial- and Ranch-style buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 560 GARFIELD AV
Map/Block/Lot/Unit: 46-2205-7

Year Built (Assessor): 1918
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Colonial- and Ranch-style buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 572 GARFIELD AV
Map/Block/Lot/Unit: 46-2205-6

Year Built (Assessor): 1907
Description (Assessor): Conventional

Setting: Residential neighborhood of one- and two-story Colonial- and Ranch-style buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 578 GARFIELD AV
Map/Block/Lot/Unit: 46-2205-5

Year Built (Assessor): 1943
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Colonial- and Ranch-style buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 586 GARFIELD AV
Map/Block/Lot/Unit: 46-2205-4

Year Built (Assessor): 1943
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Colonial- and Ranch-style buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 596 GARFIELD AV
Map/Block/Lot/Unit: 45-2205-3

Year Built (Assessor): 1906
Description (Assessor): Conventional

Setting: Residential neighborhood of one- and two-story Colonial- and Ranch-style buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 602 GARFIELD AV
Map/Block/Lot/Unit: 45-2205-2

Year Built (Assessor): 1940
Description (Assessor): Ranch

Setting: Residential neighborhood of one- and two-story Colonial- and Ranch-style buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 56 GLENDALE AV
Map/Block/Lot/Unit: 73-2309-5

Year Built (Assessor): 1909
Description (Assessor): Colonial

Setting: Residential neighborhood of one- and two-story Colonial-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 64 GLENDALE AV
Map/Block/Lot/Unit: 73-2309-4

Year Built (Assessor): 1913
Description (Assessor): Colonial

Setting: Residential neighborhood of one- and two-story Colonial-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 65 GLENDALE AV
Map/Block/Lot/Unit: 73-2308-15

Year Built (Assessor): 1938
Description (Assessor): Colonial

Setting: Residential neighborhood of one- and two-story Colonial-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 75 GLENDALE AV
Map/Block/Lot/Unit: 73-2308-16

Year Built (Assessor): 1957
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-story Colonial-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 84 GLENDALE AV
Map/Block/Lot/Unit: 73-2309-3

Year Built (Assessor): 1950
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-story Colonial-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 85 GLENDALE AV
Map/Block/Lot/Unit: 73-2308-17

Year Built (Assessor): 1941
Description (Assessor): Colonial

Setting: Residential neighborhood of one- and two-story Colonial-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 94 GLENDALE AV
Map/Block/Lot/Unit: 73-2309-2

Year Built (Assessor): 1939
Description (Assessor): Colonial

Setting: Residential neighborhood of one- and two-story Colonial-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 104 GLENDALE AV
Map/Block/Lot/Unit: 73-2317-6

Year Built (Assessor): 1948
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-story Colonial-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 105 GLENDALE AV
Map/Block/Lot/Unit: 73-2318-12

Year Built (Assessor): 1970
Description (Assessor): Raised Ranch

Setting: Residential neighborhood of one- and two-story Colonial-, Cape-, and Queen Anne-style buildings, including two-unit and multi-unit buildings, built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 72 GOLDENROD AV
Map/Block/Lot/Unit: 73-2306-5

Year Built (Assessor): 1966
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings, including two-unit buildings, built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 82 GOLDENROD AV
Map/Block/Lot/Unit: 73-2306-5

Year Built (Assessor): 1967
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings, including two-unit buildings, built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 96 GOLDENROD AV
Map/Block/Lot/Unit: 73-2306-24

Year Built (Assessor): 1947
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings, including two-unit buildings, built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 104 GOLDENROD AV
Map/Block/Lot/Unit: 73-2306-25

Year Built (Assessor): 1959
Description (Assessor): Ranch

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings, including two-unit buildings, built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 116 GOLDENROD AV
Map/Block/Lot/Unit: 65-2306-18

Year Built (Assessor): 1951
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings, including two-unit buildings, built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 60 HUNTING ST
Map/Block/Lot/Unit: 59-2123-14

Year Built (Assessor): 1915
Description (Assessor): Conventional

Setting: Residential neighborhood of one- and two-story Queen Anne-Craftsman-, Colonial- and Cape-style buildings built in the first half of the 20th century, a four-story apartment block, and the large institutional campus of St. Vincent Medical Center.



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Address: 66 HUNTING ST
Map/Block/Lot/Unit: 59-2123-13

Year Built (Assessor): 1917
Description (Assessor): Conventional

Setting: Residential neighborhood of one- and two-story Queen Anne-Craftsman-, Colonial- and Cape-style buildings built in the first half of the 20th century, a four-story apartment block, and the large institutional campus of St. Vincent Medical Center.



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Address: 74 HUNTING ST
Map/Block/Lot/Unit: 59-2123-12

Year Built (Assessor): 1920
Description (Assessor): Three Family

Setting: Residential neighborhood of one- and two-story Queen Anne-Craftsman-, Colonial- and Cape-style buildings built in the first half of the 20th century, a four-story apartment block, and the large institutional campus of St. Vincent Medical Center.



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Address: 84 HUNTING ST
Map/Block/Lot/Unit: 59-2123-11

Year Built (Assessor): 1920
Description (Assessor): Three Family

Setting: Residential neighborhood of one- and two-story Queen Anne-Craftsman-, Colonial- and Cape-style buildings built in the first half of the 20th century, a four-story apartment block, and the large institutional campus of St. Vincent Medical Center.



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Address: 88 HUNTING ST
Map/Block/Lot/Unit: 59-2123-10

Year Built (Assessor): 1911
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Queen Anne-Craftsman-, Colonial- and Cape-style buildings built in the first half of the 20th century, a four-story apartment block, and the large institutional campus of St. Vincent Medical Center.



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Address: 98 HUNTING ST
Map/Block/Lot/Unit: 59-2123-9

Year Built (Assessor): 1918
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Queen Anne-Craftsman-, Colonial- and Cape-style buildings built in the first half of the 20th century, a four-story apartment block, and the large institutional campus of St. Vincent Medical Center.



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Address: 104 HUNTING ST
Map/Block/Lot/Unit: 59-2123-8

Year Built (Assessor): 1911
Description (Assessor): Conventional

Setting: Residential neighborhood of one- and two-story Queen Anne-Craftsman-, Colonial- and Cape-style buildings built in the first half of the 20th century, a four-story apartment block, and the large institutional campus of St. Vincent Medical Center.



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Address: 43 JEWETT AV
Map/Block/Lot/Unit: 73-2306-13

Year Built (Assessor): 1899
Description (Assessor): Conventional

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 49 JEWETT AV
Map/Block/Lot/Unit: 73-2306-14

Year Built (Assessor): 1892
Description (Assessor): Conventional

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 54 JEWETT AV
Map/Block/Lot/Unit: 73-2307-6

Year Built (Assessor): 1913
Description (Assessor): Conventional

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 56 JEWETT AV
Map/Block/Lot/Unit: 73-2307-5

Year Built (Assessor): 1913
Description (Assessor): Conventional

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 60 JEWETT AV
Map/Block/Lot/Unit: 73-2307-2

Year Built (Assessor): 1913
Description (Assessor): Conventional

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 84 JEWETT AV
Map/Block/Lot/Unit: 73-2307-4

Year Built (Assessor): 1940
Description (Assessor): Colonial

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 89 JEWETT AV
Map/Block/Lot/Unit: 73-2306-15

Year Built (Assessor): 1917
Description (Assessor): Conventional

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 90 JEWETT AV
Map/Block/Lot/Unit: 73-2307-3

Year Built (Assessor): 1919
Description (Assessor): Colonial

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 91 JEWETT AV
Map/Block/Lot/Unit: 73-2306-23

Year Built (Assessor): 1949
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 105 JEWETT AV
Map/Block/Lot/Unit: 73-2306-17

Year Built (Assessor): 1939
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 114 JEWETT AV
Map/Block/Lot/Unit: 73-2319-13

Year Built (Assessor): 1943
Description (Assessor): Colonial

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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PHOTOGRAPHIC DOCUMENTATION OF PROPERTIES

IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 115 JEWETT AV
Map/Block/Lot/Unit: 73-2306-1

Year Built (Assessor): 1952
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 208 KEELER AV
Map/Block/Lot/Unit: 65-2271-12

Year Built (Assessor): 1951
Description (Assessor): Ranch

Setting: Residential neighborhood of one- and two-story Craftsman-, Cape-, Colonial-, and Ranch-style buildings built in the first three-quarters of the 20th century. A pair of Spanish Ecclectic buildings sit opposite each other at the intersection with Wayne Street. Many of the houses have been updated with additions, modern siding, and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 224 KEELER AV
Map/Block/Lot/Unit: 65-2271-11

Year Built (Assessor): 1971
Description (Assessor): Raised Ranch

Setting: Residential neighborhood of one- and two-story Craftsman-, Cape-, Colonial-, and Ranch-style buildings built in the first three-quarters of the 20th century. A pair of Spanish Ecclectic buildings sit opposite each other at the intersection with Wayne Street. Many of the houses have been updated with additions, modern siding, and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 235 KEELER AV
Map/Block/Lot/Unit: 58-2265-6

Year Built (Assessor): 1958
Description (Assessor): Ranch

Setting: Residential neighborhood of one- and two-story Craftsman-, Cape-, Colonial-, and Ranch-style buildings built in the first three-quarters of the 20th century. A pair of Spanish Ecclectic buildings sit opposite each other at the intersection with Wayne Street. Many of the houses have been updated with additions, modern siding, and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 394 LINCOLN AV
Map/Block/Lot/Unit: 52-2272-20

Year Built (Assessor): 1932
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-unit Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 400 LINCOLN AV
Map/Block/Lot/Unit: 52-2272-19

Year Built (Assessor): 1932
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-unit Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 406 LINCOLN AV
Map/Block/Lot/Unit: 52-2272-18

Year Built (Assessor): 1932
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-unit Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 410 LINCOLN AV
Map/Block/Lot/Unit: 52-2272-17

Year Built (Assessor): 1932
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-unit Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 430 LINCOLN AV
Map/Block/Lot/Unit: 52-2272-15

Year Built (Assessor): 1949
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-unit Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 440 LINCOLN AV
Map/Block/Lot/Unit: 52-2272-14

Year Built (Assessor): 1964
Description (Assessor): Ranch

Setting: Residential neighborhood of one- and two-unit Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 452 LINCOLN AV
Map/Block/Lot/Unit: 52-2272-13

Year Built (Assessor): 1928
Description (Assessor): Three Family

Setting: Residential neighborhood of one- and two-unit Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 470 LINCOLN AV
Map/Block/Lot/Unit: 52-2272-11

Year Built (Assessor): 1928
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-unit Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 476 LINCOLN AV
Map/Block/Lot/Unit: 52-2272-10

Year Built (Assessor): 1928
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-unit Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 492 LINCOLN AV
Map/Block/Lot/Unit: 52-2272-9

Year Built (Assessor): 1947
Description (Assessor): Colonial

Setting: Residential neighborhood of one- and two-unit Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 502 LINCOLN AV
Map/Block/Lot/Unit: 52-2272-7

Year Built (Assessor): 1948
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-unit Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 514 LINCOLN AV
Map/Block/Lot/Unit: 52-2272-6

Year Built (Assessor): 1953
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-unit Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 528 LINCOLN AV
Map/Block/Lot/Unit: 46-2272-41

Year Built (Assessor): 1951
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-unit Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 536 LINCOLN AV
Map/Block/Lot/Unit: 46-2272-3

Year Built (Assessor): 1950
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-unit Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 553 LINCOLN AV
Map/Block/Lot/Unit: 46-2205-43

Year Built (Assessor): 1952
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-unit Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 577 LINCOLN AV
Map/Block/Lot/Unit: 46-2205-46

Year Built (Assessor): 1949
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-unit Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 589 LINCOLN AV
Map/Block/Lot/Unit: 45-2205-48

Year Built (Assessor): 1952
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-unit Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 601 LINCOLN AV
Map/Block/Lot/Unit: 45-2205-1

Year Built (Assessor): 1944
Description (Assessor): Colonial

Setting: Residential neighborhood of one- and two-unit Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 615 LINCOLN AV
Map/Block/Lot/Unit: 45-2205-1

Year Built (Assessor): 1973
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-unit Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 950 LINDLEY ST
Map/Block/Lot/Unit: 59-2125-47

Year Built (Assessor): 1956
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Queen Anne, -Craftsman-, Colonial- and Cape-style buildings built in the first half of the 20th century, with an infill a four-story apartment block built in 1987.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 960 LINDLEY ST
Map/Block/Lot/Unit: 59-2125-46

Year Built (Assessor): 1923
Description (Assessor): Bungalow

Setting: Residential neighborhood of one- and two-story Queen Anne, -Craftsman-, Colonial- and Cape-style buildings built in the first half of the 20th century, with an infill a four-story apartment block built in 1987.



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Address: 966 LINDLEY ST
Map/Block/Lot/Unit: 59-2125-7

Year Built (Assessor): 1923
Description (Assessor): Bungalow

Setting: Residential neighborhood of one- and two-story Queen Anne, -Craftsman-, Colonial- and Cape-style buildings built in the first half of the 20th century, with an infill a four-story apartment block built in 1987.



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Address: 994 LINDLEY ST
Map/Block/Lot/Unit: 59-2125-49

Year Built (Assessor): 1960
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Queen Anne, -Craftsman-, Colonial- and Cape-style buildings built in the first half of the 20th century, with an infill a four-story apartment block built in 1987.



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Address: 1002 LINDLEY ST
Map/Block/Lot/Unit: 59-2125-4

Year Built (Assessor): 1933
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Queen Anne, -Craftsman-, Colonial- and Cape-style buildings built in the first half of the 20th century, with an infill a four-story apartment block built in 1987.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 45 LOURMEL ST
Map/Block/Lot/Unit: 73-2312-21

Year Built (Assessor): 1919
Description (Assessor): Conventional

Setting: Mixed commercial/residential neighborhood with commercial buildings, generally sited behind large parking lots, along Main Street with residential buildings on the cross streets.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 62 LOURMEL ST
Map/Block/Lot/Unit: 73-2313-11

Year Built (Assessor): 1964
Description (Assessor): Cape Cod

Setting: Mixed residential/commercial neighborhood of Cape- and Ranch-style buildings built in the middle of the 20th century, with commercial buildings at the intersection with Main Street.



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Address: 91 LOURMEL ST
Map/Block/Lot/Unit: 73-2312-26

Year Built (Assessor): 1955
Description (Assessor): Cape Cod

Setting: Mixed commercial/residential neighborhood with commercial buildings, generally sited behind large parking lots, along Main Street with residential buildings on the cross streets.



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Address: 236 MADISON TR
Map/Block/Lot/Unit: 52-2210-11

Year Built (Assessor): 1943
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. There are several light-industrial and commercial buildings near the intersection with Madison Avenue.



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Address: 244 MADISON TR
Map/Block/Lot/Unit: 52-2210-10

Year Built (Assessor): 1942
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. There are several light-industrial and commercial buildings near the intersection with Madison Avenue.



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Address: 247 MADISON TR
Map/Block/Lot/Unit: 52-2272-27

Year Built (Assessor): 1930
Description (Assessor): Warehouse

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. There are several light-industrial and commercial buildings near the intersection with Madison Avenue.



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Address: 269 MADISON TR
Map/Block/Lot/Unit: 52-2272-29

Year Built (Assessor): 1940
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. There are several light-industrial and commercial buildings near the intersection with Madison Avenue.



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Address: 275 MADISON TR
Map/Block/Lot/Unit: 52-2272-30

Year Built (Assessor): 1966
Description (Assessor): Ranch

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. There are several light-industrial and commercial buildings near the intersection with Madison Avenue.



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Address: 291 MADISON TR
Map/Block/Lot/Unit: 52-2272-31

Year Built (Assessor): 1940
Description (Assessor): Two Family

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. There are several light-industrial and commercial buildings near the intersection with Madison Avenue.



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Address: 301 MADISON TR
Map/Block/Lot/Unit: 52-2272-32

Year Built (Assessor): 1946
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. There are several light-industrial and commercial buildings near the intersection with Madison Avenue.



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Address: 309 MADISON TR
Map/Block/Lot/Unit: 52-2272-33

Year Built (Assessor): 1947
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. There are several light-industrial and commercial buildings near the intersection with Madison Avenue.



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Address: 327 MADISON TR
Map/Block/Lot/Unit: 52-2272-34

Year Built (Assessor): 1941
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. There are several light-industrial and commercial buildings near the intersection with Madison Avenue.



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Address: 329 MADISON TR
Map/Block/Lot/Unit: 52-2272-35

Year Built (Assessor): 1940
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. There are several light-industrial and commercial buildings near the intersection with Madison Avenue.



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Address: 341 MADISON TR
Map/Block/Lot/Unit: 52-2272-36

Year Built (Assessor): 1941
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. There are several light-industrial and commercial buildings near the intersection with Madison Avenue.



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Address: 355 MADISON TR
Map/Block/Lot/Unit: 52-2272-39

Year Built (Assessor): 1941
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. There are several light-industrial and commercial buildings near the intersection with Madison Avenue.



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Address: 365 MADISON TR
Map/Block/Lot/Unit: 52-2272-40

Year Built (Assessor): 1947
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-story Colonial- and Cape-style buildings built in the first half of the 20th century. There are several light-industrial and commercial buildings near the intersection with Madison Avenue.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 1115 MADISON AV
Map/Block/Lot/Unit: 52-2210-46

Year Built (Assessor): 1953
Description (Assessor): Stores/Apt

Setting: Mixed residential/commercial neighborhood of Colonial-style buildings built in the middle of the 20th century, with modern infill housing, and commercial buildings at the intersection with Amsterdam Avenue and interspersed with housing from Wayne Street to Madison Terrace.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 1123 MADISON AV
Map/Block/Lot/Unit: 52-2210-47

Year Built (Assessor): 1926
Description (Assessor): Res Style Comm

Setting: Mixed residential/commercial neighborhood of Colonial-style buildings built in the middle of the 20th century, with modern infill housing, and commercial buildings at the intersection with Amsterdam Avenue and interspersed with housing from Wayne Street to Madison Terrace.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 1135 MADISON AV
Map/Block/Lot/Unit: 52-2210-48

Year Built (Assessor): 1926
Description (Assessor): Three Family

Setting: Mixed residential/commercial neighborhood of Colonial-style buildings built in the middle of the 20th century, with modern infill housing, and commercial buildings at the intersection with Amsterdam Avenue and interspersed with housing from Wayne Street to Madison Terrace.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 1147 MADISON AV
Map/Block/Lot/Unit: 52-2210-49

Year Built (Assessor): 1962
Description (Assessor): Restaurant

Setting: Mixed residential/commercial neighborhood of Colonial-style buildings built in the middle of the 20th century, with modern infill housing, and commercial buildings at the intersection with Amsterdam Avenue and interspersed with housing from Wayne Street to Madison Terrace.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 1155 MADISON AV
Map/Block/Lot/Unit: 52-2210-50

Year Built (Assessor): 1931
Description (Assessor): Colonial

Setting: Mixed residential/commercial neighborhood of Colonial-style buildings built in the middle of the 20th century, with modern infill housing, and commercial buildings at the intersection with Amsterdam Avenue and interspersed with housing from Wayne Street to Madison Terrace.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 1171 MADISON AV
Map/Block/Lot/Unit: 52-2210-51

Year Built (Assessor): 1963
Description (Assessor): Stores/Apt

Setting: Mixed residential/commercial neighborhood of Colonial-style buildings built in the middle of the 20th century, with modern infill housing, and commercial buildings at the intersection with Amsterdam Avenue and interspersed with housing from Wayne Street to Madison Terrace.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 1175 MADISON AV
Map/Block/Lot/Unit: 52-2210-52

Year Built (Assessor): 1939
Description (Assessor): Stores/Apt

Setting: Mixed residential/commercial neighborhood of Colonial-style buildings built in the middle of the 20th century, with modern infill housing, and commercial buildings at the intersection with Amsterdam Avenue and interspersed with housing from Wayne Street to Madison Terrace.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 1183 MADISON AV
Map/Block/Lot/Unit: 52-2210-53

Year Built (Assessor): 1941
Description (Assessor): Dry Cleaner/Laundry

Setting: Mixed residential/commercial neighborhood of Colonial-style buildings built in the middle of the 20th century, with modern infill housing, and commercial buildings at the intersection with Amsterdam Avenue and interspersed with housing from Wayne Street to Madison Terrace.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 1330 MADISON AV
Map/Block/Lot/Unit: 52-2218-34

Year Built (Assessor): 1941
Description (Assessor): Two Family

Setting: Mixed residential/commercial neighborhood of Colonial-style buildings built in the middle of the 20th century, with modern infill housing, and commercial buildings at the intersection with Amsterdam Avenue and interspersed with housing from Wayne Street to Madison Terrace.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 1340 MADISON AV
Map/Block/Lot/Unit: 52-2218-11

Year Built (Assessor): 1972
Description (Assessor): Two Family

Setting: Mixed residential/commercial neighborhood of Colonial-style buildings built in the middle of the 20th century, with modern infill housing, and commercial buildings at the intersection with Amsterdam Avenue and interspersed with housing from Wayne Street to Madison Terrace.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 2837 MAIN ST
Map/Block/Lot/Unit: 59-2216-12

Year Built (Assessor): 1914
Description (Assessor): Stores/Apt

Setting: Mixed commercial/residential neighborhood with commercial buildings, generally sited behind large parking lots, along Main Street with residential buildings on the cross streets.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 2857 MAIN ST
Map/Block/Lot/Unit: 59-2223-18

Year Built (Assessor): 1910
Description (Assessor): Three Family

Setting: Mixed commercial/residential neighborhood with commercial buildings, generally sited behind large parking lots, along Main Street with residential buildings on the cross streets.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 4196 MAIN ST
Map/Block/Lot/Unit: 81-2611-3

Year Built (Assessor): 1959
Description (Assessor): Retail Strip

Setting: Mixed commercial/residential neighborhood with commercial buildings, generally sited behind large parking lots, along Main Street with residential buildings on the cross streets.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 4281 MAIN ST
Map/Block/Lot/Unit: 81-2314-14

Year Built (Assessor): 1960
Description (Assessor): Res Style Comm

Setting: Mixed commercial/residential neighborhood with commercial buildings, generally sited behind large parking lots, along Main Street with residential buildings on the cross streets.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 4301 MAIN ST
Map/Block/Lot/Unit: 81-2314-16

Year Built (Assessor): 1970
Description (Assessor): Fast Food Chain

Setting: Mixed commercial/residential neighborhood with commercial buildings, generally sited behind large parking lots, along Main Street with residential buildings on the cross streets.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 205 MANHATTAN AV
Map/Block/Lot/Unit: 52-2238-1

Year Built (Assessor): 1929
Description (Assessor): Colonial

Setting: Residential neighborhood of one- and two-unit Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 52 MARCEL ST
Map/Block/Lot/Unit: 73-2312-12

Year Built (Assessor): 1920
Description (Assessor): Conventional

Setting: Residential neighborhood of one- and two-unit Colonial- and Cape-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows. The street abuts the commercial district along Main Street.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 56 MARCEL ST
Map/Block/Lot/Unit: 73-2312-11

Year Built (Assessor): 1913
Description (Assessor): Conventional

Setting: Residential neighborhood of one- and two-unit Colonial- and Cape-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows. The street abuts the commercial district along Main Street.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 59 MARCEL ST
Map/Block/Lot/Unit: 73-2311-18

Year Built (Assessor): 1949
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-unit Colonial- and Cape-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows. The street abuts the commercial district along Main Street.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 75 MARCEL ST
Map/Block/Lot/Unit: 73-2311-3

Year Built (Assessor): 1957
Description (Assessor): Ranch

Setting: Residential neighborhood of one- and two-unit Colonial- and Cape-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows. The street abuts the commercial district along Main Street.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 90 MARCEL ST
Map/Block/Lot/Unit: 73-2312-9

Year Built (Assessor): 1955
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-unit Colonial- and Cape-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows. The street abuts the commercial district along Main Street.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 95 MARCEL ST
Map/Block/Lot/Unit: 73-2311-24

Year Built (Assessor): 1957
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-unit Colonial- and Cape-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows. The street abuts the commercial district along Main Street.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 45 QUINCE ST
Map/Block/Lot/Unit: 52-2218-39

Year Built (Assessor): 1949
Description (Assessor): Two Family

Setting: Residential neighborhood of one-, two-, and multi-unit Queen Anne- and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 252 ROCTON
Map/Block/Lot/Unit: 58-2265-21

Year Built (Assessor): 1950
Description (Assessor): Cape Cod

Setting: Residential neighborhood of one- and two-story Craftsman-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 255 ROCTON AV
Map/Block/Lot/Unit: 58-2266-13

Year Built (Assessor): 1951
Description (Assessor): Ranch

Setting: Residential neighborhood of one- and two-story Craftsman-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 264 SAVOY ST
Map/Block/Lot/Unit: 58-2266-5

Year Built (Assessor): 1955
Description (Assessor): Colonial

Setting: Residential neighborhood of Queen Anne-, Colonial-, Cape-, and Ranch-style buildings built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 286 SAVOY ST
Map/Block/Lot/Unit: 58-2266-4

Year Built (Assessor): 1960
Description (Assessor): Split-Level

Setting: Residential neighborhood of Queen Anne-, Colonial-, Cape-, and Ranch-style buildings built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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Address: 314 SAVOY ST
Map/Block/Lot/Unit: 58-2270-3

Year Built (Assessor): 1941
Description (Assessor): Cape Cod

Setting: Residential neighborhood of Queen Anne-, Colonial-, Cape-, and Ranch-style buildings built in the first three-quarters of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 148 SEQUOIA RD
Map/Block/Lot/Unit: 89-2600-16

Year Built (Assessor): 1962
Description (Assessor): Ranch

Setting: Residential neighborhood of Ranch-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 170 SEQUOIA RD
Map/Block/Lot/Unit: 89-2600-15

Year Built (Assessor): 1962
Description (Assessor): Ranch

Setting: Residential neighborhood of Ranch-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 29 SIDNEY ST
Map/Block/Lot/Unit: 52-2213-21

Year Built (Assessor): 1941
Description (Assessor): Cape Cod

Setting: Residential neighborhood of Colonial-, Cape-, and Ranch-style buildings built in the middle decades of the 20th century. Some have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 49 SIDNEY ST
Map/Block/Lot/Unit: 52-2213-22

Year Built (Assessor): 1960
Description (Assessor): Ranch

Setting: Residential neighborhood of Colonial-, Cape-, and Ranch-style buildings built in the middle decades of the 20th century. Some have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 97 STOEHRS PL
Map/Block/Lot/Unit: 65-2322-11

Year Built (Assessor): 1957
Description (Assessor): Cape Cod

Setting: Residential neighborhood of Colonial-, Cape-, and Ranch-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 254 THORME ST
Map/Block/Lot/Unit: 65-2326-11

Year Built (Assessor): 1931
Description (Assessor): Colonial

Setting: Residential neighborhood of Colonial-, Cape-, and Ranch-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 262 THORME ST
Map/Block/Lot/Unit: 65-2326-10

Year Built (Assessor): 1931
Description (Assessor): Colonial

Setting: Residential neighborhood of Colonial-, Cape-, and Ranch-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 268 THORME ST
Map/Block/Lot/Unit: 65-2326-9

Year Built (Assessor): 1951
Description (Assessor): Two Family

Setting: Residential neighborhood of Colonial-, Cape-, and Ranch-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 281 THORME ST
Map/Block/Lot/Unit: 65-2271-19

Year Built (Assessor): 1949
Description (Assessor): Colonial

Setting: Residential neighborhood of Colonial-, Cape-, and Ranch-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 293 THORME ST
Map/Block/Lot/Unit: 65-2271-20

Year Built (Assessor): 1970
Description (Assessor): Raised Ranch

Setting: Residential neighborhood of Colonial-, Cape-, and Ranch-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 315 THORME ST
Map/Block/Lot/Unit: 65-2271-1

Year Built (Assessor): 1970
Description (Assessor): Raised Ranch

Setting: Residential neighborhood of Colonial-, Cape-, and Ranch-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 323 THORME ST
Map/Block/Lot/Unit: 65-2271-2

Year Built (Assessor): 1954
Description (Assessor): Ranch

Setting: Residential neighborhood of Colonial-, Cape-, and Ranch-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 107 WAYNE ST
Map/Block/Lot/Unit: 52-2218-26

Year Built (Assessor): 1925
Description (Assessor): Three Family

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 117 WAYNE ST
Map/Block/Lot/Unit: 52-2218-27

Year Built (Assessor): 1926
Description (Assessor): Three Family

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 156 WAYNE ST
Map/Block/Lot/Unit: 52-2238-3

Year Built (Assessor): 1937
Description (Assessor): Two Family

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 161 WAYNE ST
Map/Block/Lot/Unit: 52-2218-31

Year Built (Assessor): 1930
Description (Assessor): Three Family

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 171 WAYNE ST
Map/Block/Lot/Unit: 52-2218-32

Year Built (Assessor): 1929
Description (Assessor): Three Family

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 181 WAYNE ST
Map/Block/Lot/Unit: 52-2218-33

Year Built (Assessor): 1926
Description (Assessor): Three Family

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 231 WAYNE ST
Map/Block/Lot/Unit: 59-2221-10

Year Built (Assessor): 1927
Description (Assessor): Three Family

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 254 WAYNE ST
Map/Block/Lot/Unit: 59-2224-6

Year Built (Assessor): 1920
Description (Assessor): Two Family

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 266 WAYNE ST
Map/Block/Lot/Unit: 59-2224-5

Year Built (Assessor): 1923
Description (Assessor): Two Family

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 278 WAYNE ST
Map/Block/Lot/Unit: 59-2224-4

Year Built (Assessor): 1920
Description (Assessor): Two Family

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 288 WAYNE ST
Map/Block/Lot/Unit: 59-2224-3

Year Built (Assessor): 1923
Description (Assessor): Three Family

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 298 WAYNE ST
Map/Block/Lot/Unit: 59-2224-2

Year Built (Assessor): 1926
Description (Assessor): Two Family

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 305 WAYNE ST
Map/Block/Lot/Unit: 59-2228-7

Year Built (Assessor): 1925
Description (Assessor): Two Family

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 308 WAYNE ST
Map/Block/Lot/Unit: 59-2224-36

Year Built (Assessor): 1955
Description (Assessor): Two Family

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 317 WAYNE ST
Map/Block/Lot/Unit: 59-2228-8

Year Built (Assessor): 1920
Description (Assessor): Three Family

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 327 WAYNE ST
Map/Block/Lot/Unit: 59-2228-9

Year Built (Assessor): 1917
Description (Assessor): Three Family

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 341 WAYNE ST
Map/Block/Lot/Unit: 59-2228-10

Year Built (Assessor): 1920
Description (Assessor): Res Style Comm

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 361 WAYNE ST
Map/Block/Lot/Unit: 59-2230-12

Year Built (Assessor): 1921
Description (Assessor): Two Family

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 371 WAYNE ST
Map/Block/Lot/Unit: 59-2230-5

Year Built (Assessor): 1852
Description (Assessor): Conventional

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 391 WAYNE ST
Map/Block/Lot/Unit: 59-2230-6

Year Built (Assessor): 1900
Description (Assessor): Conventional

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 585 WAYNE ST
Map/Block/Lot/Unit: 58-2265-26

Year Built (Assessor): 1926
Description (Assessor): Colonial

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 593 WAYNE ST
Map/Block/Lot/Unit: 58-2265-27

Year Built (Assessor): 1914
Description (Assessor): Two Family

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 603 WAYNE ST
Map/Block/Lot/Unit: 58-2265-28

Year Built (Assessor): 1917
Description (Assessor): Two Family

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 615 WAYNE ST
Map/Block/Lot/Unit: 58-2265-29

Year Built (Assessor): 1914
Description (Assessor): Colonial

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 800 WAYNE ST
Map/Block/Lot/Unit: 65-2372-12

Year Built (Assessor): 1947
Description (Assessor): Ranch

Setting: Residential neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first half of the 20th century. Many have been updated with modern siding and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 297 WESTFIELD AV
Map/Block/Lot/Unit: 59-2230-8

Year Built (Assessor): 1925
Description (Assessor): Conventional

Setting: Residential neighborhood of predominantly Colonial-style buildings built in the first half of the 20th century. Some have been updated with modern siding and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 311 WESTFIELD AV
Map/Block/Lot/Unit: 58-2230-9

Year Built (Assessor): 1926
Description (Assessor): Colonial

Setting: Residential neighborhood of predominantly Colonial-style buildings built in the first half of the 20th century. Some have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 49 WOODMONT AV
Map/Block/Lot/Unit: 73-2309-15

Year Built (Assessor): 1907
Description (Assessor): Two Family

Setting: Residential neighborhood of Colonial-, Cape-, and Ranch-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 52 WOODMONT AV
Map/Block/Lot/Unit: 73-2310-6

Year Built (Assessor): 1924
Description (Assessor): Ranch

Setting: Residential neighborhood of Colonial-, Cape-, and Ranch-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 61 WOODMONT AV
Map/Block/Lot/Unit: 73-2309-16

Year Built (Assessor): 1912
Description (Assessor): Colonial

Setting: Residential neighborhood of Colonial-, Cape-, and Ranch-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 64 WOODMONT AV
Map/Block/Lot/Unit: 73-2310-5

Year Built (Assessor): 1909
Description (Assessor): Conventional

Setting: Residential neighborhood of Colonial-, Cape-, and Ranch-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 74 WOODMONT AV
Map/Block/Lot/Unit: 73-2310-4

Year Built (Assessor): 1923
Description (Assessor): Conventional

Setting: Residential neighborhood of Colonial-, Cape-, and Ranch-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 75 WOODMONT AV
Map/Block/Lot/Unit: 73-2309-16

Year Built (Assessor): 1972
Description (Assessor): Cape Cod

Setting: Residential neighborhood of Colonial-, Cape-, and Ranch-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 83 WOODMONT AV
Map/Block/Lot/Unit: 73-2309-18

Year Built (Assessor): 1935
Description (Assessor): Cape Cod

Setting: Residential neighborhood of Colonial-, Cape-, and Ranch-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 84 WOODMONT AV
Map/Block/Lot/Unit: 73-2310-3

Year Built (Assessor): 1928
Description (Assessor): Colonial

Setting: Residential neighborhood of Colonial-, Cape-, and Ranch-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 105 WOODMONT AV
Map/Block/Lot/Unit: 73-2317-7

Year Built (Assessor): 1955
Description (Assessor): Cape Cod

Setting: Residential neighborhood of Colonial-, Cape-, and Ranch-style buildings built in the middle decades of the 20th century. Many have been updated with modern siding and/or windows.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 347 WOODSIDE AV
Map/Block/Lot/Unit: 73-2310-13

Year Built (Assessor): 1949
Description (Assessor): Res Style Comm

Setting: Mixed residential/commercial neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first three quarters of the 20th century and commercial buildings at the intersection with Main Street.



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IN THE AREA OF POTENTIAL EFFECTS (APE)

THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 382 WOODSIDE AV
Map/Block/Lot/Unit: 73-2311-3

Year Built (Assessor): 1909
Description (Assessor): Colonial

Setting: Mixed residential/commercial neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first three quarters of the 20th century and commercial buildings at the intersection with Main Street.



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THAT ARE MORE THAN 45 YEARS OLD AND NOT RECOMMENDED AS ELIGIBLE FOR THE NATIONAL REGISTER OF HISTORIC PLACES

Address: 383 WOODSIDE AV
Map/Block/Lot/Unit: 73-2310-16

Year Built (Assessor): 1951
Description (Assessor): Cape Cod

Setting: Mixed residential/commercial neighborhood of Queen Anne-, Colonial-, and Cape-style buildings built in the first three quarters of the 20th century and commercial buildings at the intersection with Main Street.



Appendix E – Summary of Current or Former Environmental Concerns and EDR Database Report Excerpts

A Summary of Sites Associated with Current or Former Environmental Concerns

ID Number	Address	Name	Database	SPILLS Closed? (Y/N)
1	270 AMSTERDAM AVENUE		RGA LUST (not reported), SPILLS (closed)	Y
2	273 AMSTERDAM AVE		SPILLS (closed)	Y
3	308 AMSTERDAM AVE.		SPILLS (closed)	Y
4	434 AMSTERDAM AVE		SPILLS (closed)	Y
5	442 AMSTERDAM AVE		SPILLS (closed)	Y
6	139 ANSON ST.		SPILLS (closed)	Y
7	386 ANSON STREET	Mike Lewis	SPILLS (closed)	Y
8	256 ARLINGTON STREET		SPILLS (closed)	Y
9	282 BIRMINGHAM ST		SPILLS (closed)	Y
10	324 BIRMINGHAM ST		SPILLS (closed)	Y
11	183 BRONX AVENUE		SPILLS (closed)	Y
12	194 BRONX AVE		SPILLS (closed)	Y
13	271 BRONX AVE.		SPILLS (closed)	Y
14	284 BRONX AVENUE		SPILLS (closed)	Y
15	53 BRONX AVE		SPILLS (not reported)	
16	349 CAMBRIDGE STREET		SPILLS (closed)	Y
17	1225 CAPITAL AVE.		SPILLS (closed)	Y
18	984 CAPITAL AVE		SPILLS (closed)	Y
19	1075 CAPITOL AVE		SPILLS (closed)	Y
20	1086 CAPITOL AVE		SPILLS (closed)	Y
21	1204 CAPITOL AVE		SPILLS (closed)	Y
22	CAPITOL & MADISON AVE		SPILLS (closed)	Y
23	54 CLARK ST.		SPILLS (closed)	Y
24	63 CLARK ST		SPILLS (closed)	Y
25	276 CLARKE ST.		SPILLS (closed)	Y
26	33 CLARKE STREET	Frank Carrano	CPCS, LUST (completed), RGA LUST, SPILLS (closed)	Y
27	210 CLEVELAND AVE		SPILLS (closed)	Y
28	306 CLEVLAND AVE		SPILLS (closed)	Y
29	38 CORNELL STREET		SPILLS (closed)	Y
30	77 ENGLEWOOD AVE		SPILLS (closed)	Y
31	4 EVERETT STREET		ERNS, SPILLS (closed)	Y
32	130 EZRA ST	Read Middle School	ECHO, SPILLS (closed), UST (permanently closed, currently in use)	Y
33	349 EZRA STREET		SPILLS (closed)	Y

ID Number	Address	Name	Database	SPILLS Closed? (Y/N)
34	196 FAIRVIEW AVE		SPILLS (closed)	Y
35	205 FAIRVIEW AVE.		SPILLS (closed)	Y
36	414 FAIRVIEW AVE	United Illuminating	FTTS, HIST FTTS, SPILLS (not reported)	
37	47 FAIRVIEW AVE.		RGA LUST (not reported), SPILLS (closed)	Y
38	513 FAIRVIEW AVENUE		SPILLS (closed, not reported)	
39	577 FAIRVIEW AVE		SPILLS (closed)	Y
40	627 FAIRVIEW AVENUE		SPILLS (closed)	Y
41	630 FAIRVIEW AVE		SPILLS (closed)	Y
42	670 FAIRVIEW AVE		SPILLS (closed)	Y
43	681 FAIRVIEW AVENUE		SPILLS (closed)	Y
44	691 FAIRVIEW AVENUE	Pereira Residence	CPCS, LUST (completed), RGA LUST, SPILLS (closed)	Y
45	724 FAIRVIEW AVE		SPILLS (closed)	Y
46	99 FAIRVIEW AVE		SPILLS (closed)	Y
47	42 FERN ST	970 Torringford Street STN LLC	EDR Hist Auto	
48	99 FERN STREET		RGA LUST (not reported), SPILLS (closed)	Y
49	31 FRENCHTOWN RD		SPILLS (closed)	Y
50	8 FRENCH TOWN ROAD		SPILLS (closed)	Y
51	715 FRENCHTOWN	Melisi Angelo	EDR Hist Auto	N/A
52	720 FRENCHTOWN ROAD		SPILLS (closed)	Y
53	640 FRENCH TOWN STREET		SPILLS (closed)	Y
54	RT.15 NB & FRENCHTOWN RD. OVERPASS		SPILLS (closed)	Y
55	310 GARFIELD AVE		SPILLS (closed)	Y
56	513 GARFIELD AVE		SPILLS (closed)	Y
57	572 GARFIELD		SPILLS (closed)	Y
58	160 GLENNDALE AVE		SPILLS (closed)	Y
59	195 GOLDENROD AVE		SPILLS (closed)	Y
60	69 GOLDEN ROD AVE		SPILLS (closed)	Y
61	280 GORDON ST		SPILLS (not reported)	
62	GORDON STREET - BACK SIDE OF ST. VINCENT'S HOSPITAL		SPILLS (closed)	Y
63	14 HARLEM AVENUE		SPILLS (closed)	Y
64	255 HARLEM AVENUE		SPILLS (closed)	Y
65	260 HARLEM AVE APT 2B	Bedells Amoco	EDR Hist Auto	N/A

ID Number	Address	Name	Database	SPILLS Closed? (Y/N)
66	370 HARLEM AVE		SPILLS (closed)	Y
67	64 HARLEM AVE		SPILLS (closed)	Y
68	HAWLEY AVE/EZRA ST		SPILLS (not reported)	
69	175 HAWLEY AVE		SPILLS (closed)	Y
70	65A HAWLEY AVENUE	The Dry Cleaning Station, M2MTEL LLC	ECHO, RCRA NonGen/NLR, CT Property (not reported)	
71	HAWLEY AVE AT HART ST		SPILLS (closed)	Y
72	HAWLEY AVENUE		SPILLS (closed)	Y
73	LINLY/HAWLEY		SPILLS (not reported)	
74	161 HIGH RIDGE DRIVE		SPILLS (closed)	Y
75	191 HIGH RIDGE DR.		SPILLS (closed)	Y
76	221 HIGH RIDGE DRIVE		SPILLS (closed)	Y
77	233 HIGH RIDGE DRIVE		SPILLS (closed)	Y
78	43 HILLVIEW ST	Tom Corbett Residence	CPCS, LUST (completed), RGA LUST, SPILLS (not reported)	
79	40 HUNTING STREET		SPILLS (closed)	Y
80	195 JEWETT AVE		SPILLS (not reported)	
81	56 JEWETT STREET		SPILLS (closed)	Y
82	37 KAECHELE PLACE		SPILLS (closed)	Y
83	83 KEELER AVE		SPILLS (closed)	Y
84	94 KEELER AVE		SPILLS (closed)	Y
85	KOECHLE PLACE		SPILLS (not reported)	
86	325 LINCOLN BLVD.		SPILLS (closed)	Y
87	391 LINCOLN AVE		SPILLS (not reported)	Y
88	514 LINCOLN AVE.		SPILLS (not reported)	
89	525 LINCOLN AVE		SPILLS (closed)	Y
90	692 LINCOLN AVE		SPILLS (closed)	Y
91	421 LINCOLN AVE		SPILLS (closed)	Y
92	1115 LINDLEY ST		SPILLS (closed)	Y
93	1122 LINDLEY STREET		SPILLS (closed)	Y
94	819 LINDLEY STREET	Paul's Service Center Inc	EDR Hist Auto, LUST (cleanup initiated), RGA LUST (not reported), UST (permanently closed), SPILLS (closed)	Y
95	820 LINDLEY ST		SPILLS (closed)	Y
96	886 LINDLEY ST. AT HUNTING ST. AND HAWLEY AVE.		SPILLS (closed)	Y

ID Number	Address	Name	Database	SPILLS Closed? (Y/N)
97	111 LOURMEL ST		SPILLS (closed)	Y
98	1041 MADISON AVE	Grand Garage	EDR Hist Auto, CPCS, LUST (completed), SPILLS (closed), UST (permanently closed)	Y
99	1046 - 1050 MADISON AVENUE		SPILLS (closed)	Y
100	1075 MADISON AVENUE		SPILLS (closed)	Y
101	1088 MADISON AV	Lincoln Cleaners	EDR Hist Cleaner	N/A
102	1128 MADISON AVE	CT DEP Emerg Resp per CGS22A-451	SPILLS (closed)	Y
103	1165 MADISON AVE	Madison Cleaners, Madison Service Laundry Inc	ECHO, EDR Hist Cleaner, RCRA-SQG	N/A
104	1183 MADISON AVE	Continental Cleaners & Tailors	ECHO, EDR Hist Cleaner, RCRA-SQG	N/A
105	1210 MADISON AVE	Mike's Sunoco	EDR Hist Auto, UST (Permanently Closed, Currently in Use), LUST (LUST Completed), SPILLS (closed, not reported)	
106	1405 MADISON AVE.		SPILLS (closed)	Y
107	1415 MADISON AVE		SPILLS (closed)	Y
108	1470 MADISON AVE		SPILLS (closed)	Y
109	254 MADISON TERRACE		SPILLS (closed)	Y
110	355 MADISON TERR		SPILLS (closed)	Y
111	2790 MAIN ST.		SPILLS (closed)	Y
112	2800 MAIN STREET	St. Vincent's Medical Center	CPCS, LUST (cleanup initiated), CT Property (not reported), ECHO, RCRA-LQG, SDADB, SPILLS (closed), UST (permanently closed, currently in use), FTTS, HIST FTTS, RGA LUST (not reported)	Y
113	2820 MAIN ST	Stratford Exxon Inc	EDR Hist Auto	N/A
114	2875 MAIN STREET		SPILLS (not reported)	
115	2962 MAIN STREET	Dr. Weinstein	CPCS, LUST (completed), RGA LUST, SPILLS (closed)	Y
116	3451 MAIN STREET		SPILLS (closed)	Y
117	3461 MAIN STREET		SPILLS (closed)	Y
118	3495 MAIN ST		SPILLS (closed)	Y
119	3591 MAIN ST.		SPILLS (closed)	Y
120	3653 MAIN STREET		SPILLS (closed)	Y
121	3658 MAIN STREET	SNET	CT Property, SDADB	

ID Number	Address	Name	Database	SPILLS Closed? (Y/N)
122	3668 MAIN STREET	Southern New England Tele Co, North Bridgeport Central Office (3721)	RCRA NonGen/NLR, SPILLS (not reported), UST (permanently closed, currently in use), ECHO	
123	3691 MAIN STREET	T&B Mobil Station, Mobil Service Station 01-HEQ (10419), Mobil Corp #06-HEQ	EDR Hist Auto, ECHO, RCRA-SQG, SPILLS (closed, not reported, open), UST (permanently closed, currently in use), CT Property (not reported), LUST (cleanup initiated), RGA LUST (not reported), SDADB	
124	3710 MAIN ST	CVS Pharmacy 2143	ECHO, RCRA-LQG	N/A
125	3715 MAIN ST (REAR) PRIVATE RESIDENCE		RGA LUST (not reported), SPILLS (closed)	Y
126	3715 MAIN STREET SUITE 203		SPILLS (closed)	Y
127	3741 MAIN STREET	The Sherwin Williams Co	ECHO, RCRA NonGen/NLR, CPCS, LUST (completed), RGA LUST, SPILLS (closed)	Y
128	3800 MAIN STREET	Niski John, Consumers Petroleum of Connecticut	EDR Hist Auto, UST (permanently closed), CPCS (not reported, pending), CT Property (not reported), LUST, RGA LUST (not reported), SDADB	N/A
129	3876 MAIN ST	Burnsford Cleaners Inc	EDR Hist Cleaner	N/A
130	3939 MAIN ST	Main Street Wash and Dry	EDR Hist Cleaner	N/A
131	3940 MAIN ST	Broadbent Donald	EDR Hist Auto	N/A
132	3956 MAIN STREET	Bedells American Service Station, AAMACO, Main Freedom Fuels, Former AMOCO No. 5089, Former BP Service Station No. 5089	EDR Hist Auto, LUST (completed), SPILLS (not reported, closed), UIC, UST (permanently closed, currently in use), CPCS (LUST completed), RGA LUST, SHE	
133	3965 MAIN ST		SPILLS (closed)	Y
134	4005 - 4007 MAIN STREET	Allan Martini	CPCS, LUST (completed), SPILLS (closed)	Y
135	4031 MAIN ST	Buzz's Enterprises Inc 910130, Buzz's SVS Station, Di Cesare Anthony D	ECHO, EDR Hist Auto, SPILLS (not reported), UST (permanently closed)	

ID Number	Address	Name	Database	SPILLS Closed? (Y/N)
136	4045 MAIN ST	Buzz's Enterprises Inc, Bereket Citgo	EDR Hist Auto, UST (currently in use)	
137	4063 MAIN ST	Sunoco Service Station, Lucs & Wellington	ECHO, EDR Hist Auto, RCRA-VSQG, UST (permanently closed, currently in use)	
138	4083 MAIN STREET	Walgreens No. 7522	ECHO, RCRA-VSQG	
139	4100 MAIN STREET	Modernized Cleaners	ECHO, EDR Hist Cleaner, RCRA NonGen/NLR, SPILLS (closed)	Y
140	4143 MAIN ST.		RGA LUST (not reported), SPILLS (closed)	Y
141	4154 MAIN STREET	Engborg Burgar M Jr, All Car Service & Repair Corp, Valvoline Instant Oil Change	EDR Hist Auto, UST (permanently closed), CT Property (not reported), SDADB	
142	4198 MAIN ST	Colonial Cleaners	Drycleaners, ECHO, EDR Hist Cleaner, RCRA NonGen/NLR	
143	4219 MAIN STREET	McDonald's USA LLC	SPILLS (closed)	Y
144	4225 MAIN STREET		SPILLS (closed)	Y
145	4315 MAIN ST	Exxon Co USA No. 31660, Ligouris Service Center, Brake Centers of America	ECHO, EDR Hist Auto, RCRA NonGen/NLR, UST (permanently closed)	
146	4316 MAIN STREET	Exxon Service Station No. 31660	CPCS, LUST (pending), RGA LUST (not reported)	
147	4402 MAIN STREET	Service Rite Shell No. 136286	EDR Hist Auto, LUST (completed), SPILLS (closed), UST (permanently closed, currently in use), RGA LUST	Y
148	4425 MAIN ST		SPILLS (not reported)	
149	4444 MAIN ST	Carpenter Chiropractic Associates	UST (permanently closed)	
150	4464 MAIN STREET	Cumberland Gulf No. 60914, Cumberland Farms Inc	EDR Hist Auto, UST (permanently closed), CT Property (not reported), SDADB	
151	4531 MAIN ST	Finast Supermarket	UST (temporarily closed), SPILLS (not reported)	
152	4531-4575 MAIN ST	Brookside Plaza	SPILLS (not reported)	
153	4531-4577 MAIN STREET	Clean-O-Rama	CPCS (not reported), CT Property (not reported)	

ID Number	Address	Name	Database	SPILLS Closed? (Y/N)
154	4533 MAIN ST	Clean-O-Rama, Brookside Dry Cleaners Inc	CPCS (not reported), Drycleaners, ECHO, EDR Hist Cleaner, RCRA NonGen/NLR, SDADB, UST (currently in use)	
155	4563 MAIN ST	Brookside Dry Cleaners Inc	EDR Hist Cleaner, RCRA NonGen/NLR	
156	4695 MAIN ST	Maritime Leasing Corp, Cardiomed of Connecticut LLC	EDR Hist Auto, SPILLS (closed)	Y
157	4699 MAIN STREET		SPILLS (closed)	Y
158	4790 MAIN ST		SPILLS (closed)	Y
159	ST. VINCENT'S HOSPITAL, 2800 MAIN ST. - ER ENTRANCE		SPILLS (closed)	Y
160	195 MANHATTAN AVE		SPILLS (closed)	Y
161	47 MANHATTEN AVE.		SPILLS (closed)	Y
162	58 MANHATTAN AVE		SPILLS (closed)	Y
163	134-136 MARION STREET		SPILLS (closed)	Y
164	168 MARION STREET	Leonard Rutkowsky	CPCS, LUST (cleanup initiated), RGA LUST (not reported), SPILLS (closed)	Y
165	186-188 MARION ST		SPILLS (closed)	Y
166	285 MARION ST		SPILLS (not reported)	
167	86 MARION ST		SPILLS (closed)	Y
168	46 MARSDALE AVE		SPILLS (closed)	Y
169	69 MARSDALE AVE		SPILLS (closed)	Y
170	92 MARSDALE AVE		RGA LUST (not reported), SPILLS (closed)	Y
171	25 OAKWOOD STREET		SPILLS (closed)	Y
172	60 OAKWOOD ST		SPILLS (closed)	Y
173	10 OAKWOOD DR POLE 9323		SPILLS (closed)	Y
174	112 OCHSNER PLACE		SPILLS (closed)	Y
175	77 OCHSNER ST.	Walter Kell	CPCS, LUST (completed), RGA LUST, SPILLS (closed)	Y
176	2170 OLD TOWN RD		SPILLS (closed)	Y
177	2200 OLD TOWN ROAD		SPILLS (closed)	Y
178	2478 OLD TOWN ROAD		SPILLS (not reported)	
179	104 PERTH ST		SPILLS (not reported)	
180	30 QUINCE STREEET		SPILLS (closed)	Y
181	41 QUINCE ST.		SPILLS (closed)	Y
182	35 ROBIN STREET		SPILLS (closed)	Y

ID Number	Address	Name	Database	SPILLS Closed? (Y/N)
183	225 ROCTON AVENUE	Acero Residence	CPCS, LUST (completed), RGA LUST, SPILLS (closed)	Y
184	460 SALEM STREET		SPILLS (closed)	Y
185	470 SALEM ST		SPILLS (closed)	Y
186	125 SAQUOIA ROAD		SPILLS (closed)	Y
187	156 SAVOY ST		SPILLS (closed)	Y
188	252 SAVOY STREET		SPILLS (closed)	Y
189	269 SAVOY ST		SPILLS (closed)	Y
190	399 SAVOY ST,		SPILLS (closed)	Y
191	STOEHR PLACE/FERN ST		SPILLS (closed)	Y
192	55 STOEHRS RD		SPILLS (not reported)	
193	131 SUMMITT STREET		SPILLS (closed)	Y
194	141 SUMMIT ST.		SPILLS (closed)	Y
195	220 SUMMITT AVE		SPILLS (closed)	Y
196	505, 599 & 645 SYLVAN AVENUE	Equestrian Estates Development	CT Property (not reported), SDADB	
197	30 TREMONT AVE.		SPILLS (closed)	Y
198	55 TREMONT AVE	Pezzella	CPCS, LUST (completed), RGA LUST, SPILLS (closed)	Y
199	105 TERRY PLACE		RGA LUST (not reported), SPILLS (closed)	Y
200	153 TERRY PLACE		SPILLS (closed)	Y
201	121 THORME ST		SPILLS (closed)	Y
202	213 THORME ST.		RGA LUST (not reported), SPILLS (closed)	Y
203	251 THORME STREET		SPILLS (closed)	Y
204	261 THORME ST		SPILLS (closed)	Y
205	314 THORME ST		SPILLS (closed)	Y
206	425 THORME ST	Blackham School, Southwest, CHC, SBHC, MXI Environmental HHHWC	ECHO, RCRA-VSQG, UST (permanently closed)	
207	254 THORNE ST.		SPILLS (closed)	Y
208	425 THORNE ST		SPILLS (not reported)	
209	55 VINCELETTE STREET		RGA LUST (not reported), SPILLS (closed)	Y
210	VINCELETT ST. COACHLIGHT CONDO, BLDG 5		SPILLS (closed)	Y
211	169 VINCELLETTE ST.		SPILLS (closed)	Y

A Summary of Sites Associated with Current or Former Environmental Concerns

ID Number	Address	Name	Database	SPILLS Closed? (Y/N)
212	189 VINCELLETTE STREET		SPILLS (closed)	Y
213	VINCELETTE		SPILLS (not reported)	
214	216 WAYNE ST		SPILLS (not reported)	
215	322 WAYNE ST.		SPILLS (closed)	Y
216	36-38 WAYNE ST		SPILLS (closed)	Y
217	376 WAYNE ST.	City of Bridgeport	CPCS, LUST (completed), RGA LUST, SPILLS (closed)	Y
218	423 WAYNE ST		RGA LUST (not reported), SPILLS (closed)	Y
219	448 WAYNE STREET		SPILLS (closed)	Y
220	603 WAYNE STREET		SPILLS (closed)	Y
221	639 WAYNE STREET		SPILLS (closed)	Y
222	695 WAYNE STREET		SPILLS (closed)	Y
223	7 WAYNE STREET	Porter Service Station, Five Corner Auto Sales, Porter's Mobil	EDR Hist Auto, UST (permanently closed), CPCS, LUST (completed), ECHO, RGA LUST	N/A
224	820 WAYNE STREET		SPILLS (closed)	Y
225	MADISON/WAYNE ST		SPILLS (not reported)	
226	113 WENTWORTH ST		SPILLS (not reported)	
227	226 WESTFIELD AVENUE	Israel Rubin	CPCS, LUST (completed), RGA LUST, SPILLS (closed)	Y
228	297 WESTFIELD AVE		SPILLS (closed)	Y
229	311 WESTFIELD AVE		RGA LUST (not reported), SPILLS (closed)	Y
230	472 WESTFIELD AVE		SPILLS (closed)	Y
231	52 WOODMONT AVENUE		SPILLS (closed)	Y
232	169 WOODSIDE AVENUE	Woltch Residence	LUST (pending), RGA LUST (not reported), SPILLS (closed)	Y
233	383 WOODSIDE AVE		SPILLS (closed)	Y

= Address within estimated Project Area

EXCERPT OF COMPLETE REPORT
ONLY EXECUTIVE SUMMARY AND MAP
FINDINGS SUMMARY PROVIDED FOR
BREVITY

Ox Brook Flood Control Master Plan Project EIE
Ox Brook Flood Control Master Plan Project EIE
Bridgeport, CT 06606

Inquiry Number: 6710494.5s
October 19, 2021

EDR Area / Corridor Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	0.250		0	0	NR	NR	NR	0
Proposed NPL	0.250		0	0	NR	NR	NR	0
NPL LIENS	0.250		0	0	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	0.250		0	0	NR	NR	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.250		0	0	NR	NR	NR	0
SEMS	0.250		0	0	NR	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.250		0	0	NR	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	0.250		0	0	NR	NR	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.250		0	0	NR	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		2	0	NR	NR	NR	2
RCRA-SQG	0.250		3	0	NR	NR	NR	3
RCRA-VSQG	0.250		4	2	NR	NR	NR	6
Federal institutional controls / engineering controls registries								
LUCIS	0.250		0	0	NR	NR	NR	0
US ENG CONTROLS	0.250		0	0	NR	NR	NR	0
US INST CONTROLS	0.250		0	0	NR	NR	NR	0
Federal ERNS list								
ERNS	0.250		1	2	NR	NR	NR	3
State- and tribal - equivalent CERCLIS								
CT SHWS	0.250		0	0	NR	NR	NR	0
CT SDADB	0.250		8	1	NR	NR	NR	9
State and tribal landfill and/or solid waste disposal site lists								
CT SWF/LF	0.250		0	0	NR	NR	NR	0
State and tribal leaking storage tank lists								
CT LUST	0.250	3	19	24	NR	NR	NR	46
INDIAN LUST	0.250		0	0	NR	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CT UST	0.250	2	19	7	NR	NR	NR	28
CT AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
CT ENG CONTROLS	0.250		0	0	NR	NR	NR	0
CT AUL	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
CT VCP	0.250		0	0	NR	NR	NR	0
INDIAN VCP	0.250		0	0	NR	NR	NR	0
State and tribal Brownfields sites								
CT BROWNFIELDS	0.250		0	0	NR	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.250		0	0	NR	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
CT SWRCY	0.250		0	0	NR	NR	NR	0
INDIAN ODI	0.250		0	0	NR	NR	NR	0
ODI	0.250		0	0	NR	NR	NR	0
DEBRIS REGION 9	0.250		0	0	NR	NR	NR	0
IHS OPEN DUMPS	0.250		0	0	NR	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.250		0	0	NR	NR	NR	0
CT CDL	0.250		0	0	NR	NR	NR	0
US CDL	0.250		0	0	NR	NR	NR	0
Local Land Records								
CT PROPERTY	0.250		9	1	NR	NR	NR	10
CT LIENS	0.250		0	0	NR	NR	NR	0
LIENS 2	0.250		0	0	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.250		0	0	NR	NR	NR	0
CT SPILLS	0.250	37	190	137	NR	NR	NR	364
CT SPILLS 90	0.250		0	0	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250	2	7	1	NR	NR	NR	10
FUDS	0.250		0	0	NR	NR	NR	0
DOD	0.250		0	0	NR	NR	NR	0
SCRD DRYCLEANERS	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
US FIN ASSUR	0.250		0	0	NR	NR	NR	0
EPA WATCH LIST	0.250		0	0	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.250		0	0	NR	NR	NR	0
TRIS	0.250		0	0	NR	NR	NR	0
SSTS	0.250		0	0	NR	NR	NR	0
ROD	0.250		0	0	NR	NR	NR	0
RMP	0.250		0	0	NR	NR	NR	0
RAATS	0.250		0	0	NR	NR	NR	0
PRP	0.250		0	0	NR	NR	NR	0
PADS	0.250		0	0	NR	NR	NR	0
ICIS	0.250		4	0	NR	NR	NR	4
FTTS	0.250		2	1	NR	NR	NR	3
MLTS	0.250		4	2	NR	NR	NR	6
COAL ASH DOE	0.250		0	0	NR	NR	NR	0
COAL ASH EPA	0.250		0	0	NR	NR	NR	0
PCB TRANSFORMER	0.250		0	0	NR	NR	NR	0
RADINFO	0.250		0	0	NR	NR	NR	0
HIST FTTS	0.250		2	1	NR	NR	NR	3
DOT OPS	0.250		0	0	NR	NR	NR	0
CONSENT	0.250		0	0	NR	NR	NR	0
INDIAN RESERV	0.250		0	0	NR	NR	NR	0
FUSRAP	0.250		0	0	NR	NR	NR	0
UMTRA	0.250		0	0	NR	NR	NR	0
LEAD SMELTERS	0.250		0	0	NR	NR	NR	0
US AIRS	0.250		7	0	NR	NR	NR	7
US MINES	0.250		1	0	NR	NR	NR	1
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.250	5	49	20	NR	NR	NR	74
UXO	0.250		0	0	NR	NR	NR	0
ECHO	0.250	2	17	3	NR	NR	NR	22
DOCKET HWC	0.250		0	0	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CT AIRS	0.250	1	4	2	NR	NR	NR	7
CT ASBESTOS	0.250	19	152	80	NR	NR	NR	251
CT CPCS	0.250	2	18	14	NR	NR	NR	34
CT DRYCLEANERS	0.250	1	1	1	NR	NR	NR	3
CT ENF	0.250	1	14	4	NR	NR	NR	19
CT Financial Assurance	0.250		0	0	NR	NR	NR	0
CT LEAD	0.250	8	14	11	NR	NR	NR	33
CT LWDS	0.250		0	0	NR	NR	NR	0
CT MANIFEST	0.250	4	48	13	NR	NR	NR	65
NJ MANIFEST	0.250		1	0	NR	NR	NR	1
PA MANIFEST	0.250		2	2	NR	NR	NR	4
RI MANIFEST	0.250		3	1	NR	NR	NR	4
NY MANIFEST	0.250	2	4	0	NR	NR	NR	6
CT NPDES	0.250		14	2	NR	NR	NR	16
CT SEH	0.250		1	0	NR	NR	NR	1
CT UIC	0.250		1	0	NR	NR	NR	1
MINES MRDS	0.250		0	0	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR Hist Auto	0.250	2	18	3	NR	NR	NR	23
EDR Hist Cleaner	0.250	1	8	0	NR	NR	NR	9
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
CT RGA HWS	0.250		0	0	NR	NR	NR	0
CT RGA LUST	0.250	4	35	25	NR	NR	NR	64
- Totals --		96	686	360	0	0	0	1142

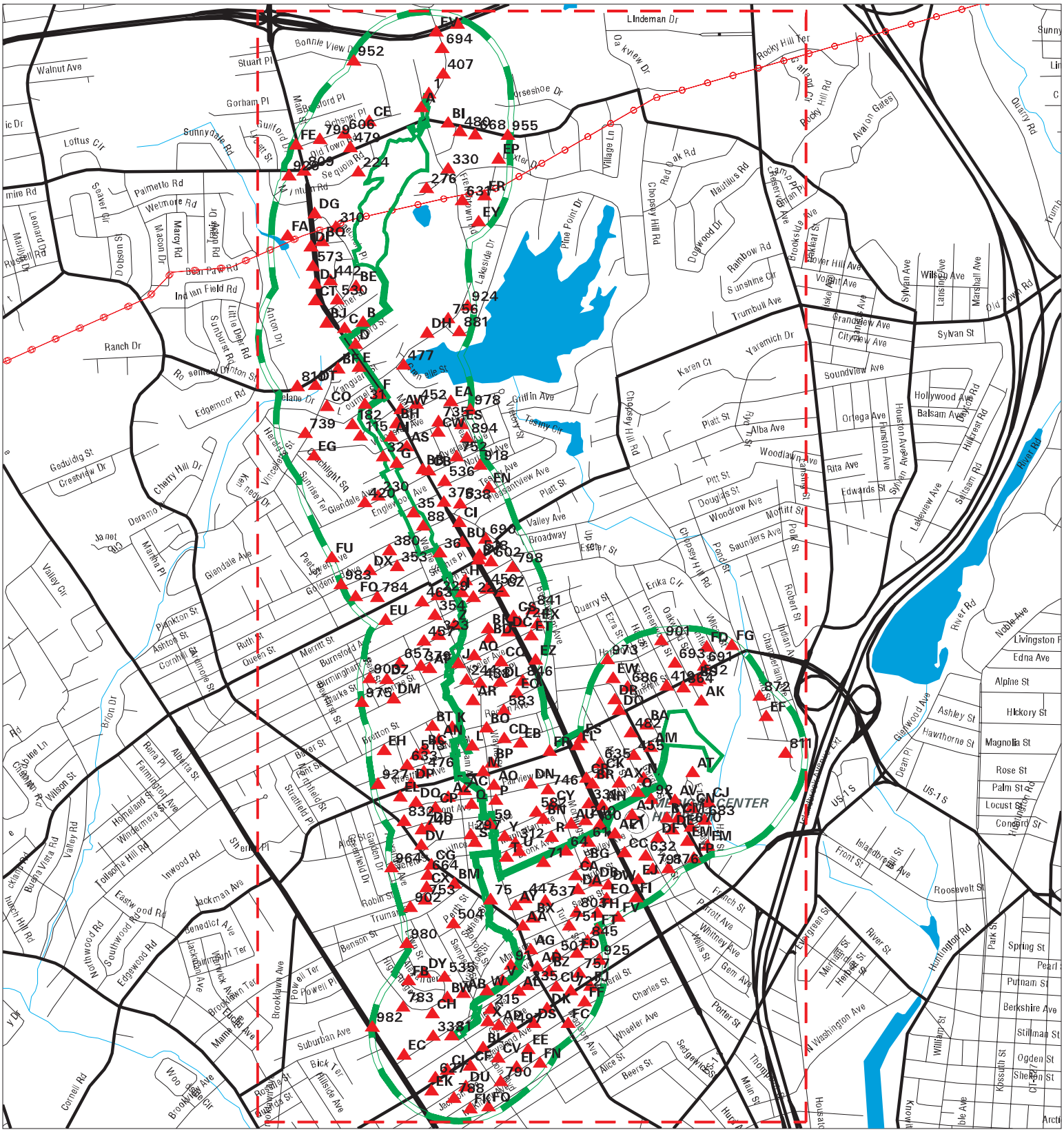
NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Focus Map - 1 - 6710494.5s



SITE NAME: Ox Brook Flood Control Master Plan Project EIE	CLIENT: GZA GeoEnvironmental, Inc
ADDRESS: Ox Brook Flood Control Master Plan Project EIE	CONTACT: Adam Cote
CITY/STATE: Bridgeport CT	INQUIRY #: 6710494.5s
ZIP: 06606	DATE: 10/19/21

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

SUBJECT PROPERTY INFORMATION

ADDRESS

OX BROOK FLOOD CONTROL MASTER PLAN PROJECT EIE
BRIDGEPORT, CT 06606

TARGET PROPERTY SEARCH RESULTS

The Target Property was identified in the following databases.

Page Numbers and Map Identifcations refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

STANDARD ENVIRONMENTAL RECORDS

State and tribal leaking storage tank lists

CT LUST: Leaking Underground Storage Tank List

A review of the CT LUST list, as provided by EDR, and dated 06/07/2021 has revealed that there are 3 CT LUST sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
SHELL SERVICE STATIO LUST Id: 48669	***4402 MAIN ST***	***D14 / 1***	***94***
EXXON SERVICE STATIO LUST Id: 31025	***4316 MAIN STREET***	***E23 / 1***	***115***
ALLAN MARTINI LUST Id: 36742	***4005 - 4007 MAIN STR***	***G34 / 1***	***315***

State and tribal registered storage tank lists

CT UST: Underground Storage Tank Data

A review of the CT UST list, as provided by EDR, and dated 05/17/2021 has revealed that there are 2 CT UST sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
SHELL SERVICE STATIO	4402 MAIN ST	D8 / 1	67

Facility Id: 15-2861 Tank Status: Permanently Closed Tank Status: Currently In Use			
BRAKE CENTERS OF AME Facility Id: 15-3402 Tank Status: Permanently Closed	4315 MAIN ST	E17 / 1	103

ADDITIONAL ENVIRONMENTAL RECORDS

Records of Emergency Release Reports

CT SPILLS: Oil & Chemical Spill Database

A review of the CT SPILLS list, as provided by EDR, and dated 06/08/2021 has revealed that there are 37 CT SPILLS sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
Not reported Case Number: 6401	31 FRENCHTOWN RD	1 / 1	58
Not reported Facility Status: Closed Case Number: 200309099	8 FRENCH TOWN ROAD	A3 / 1	61
Not reported Facility Status: Closed Case Number: 200202136	349 CAMBRIDGE STREET	B5 / 1	63
Not reported Case Number: 5253	4425 MAIN ST	C6 / 1	64
Not reported Facility Status: Closed Case Number: 200507112	4402 MAIN, AVE	D9 / 1	90
Not reported Facility Status: CLOSED Case Number: 201202784	4402 MAIN ST (SHELL	D11 / 1	92
SHELL SERVICE STATIO Facility Status: closed Case Number: 200504279	***4402 MAIN ST***	***D14 / 1***	***94***
Not reported Facility Status: CLOSED Case Number: 201603999	4225 MAIN STREET	F25 / 1	119
MCDONALDS USA LLC Facility Status: Closed Case Number: 200202173	***4219 MAIN STREET***	***F26 / 1***	***120***
Not reported Facility Status: CLOSED Case Number: 201804612	383 WOODSIDE AVE	32 / 1	313
Not reported Facility Status: CLOSED	52 WOODMONT AVENUE	G33 / 1	314

Case Number: 200907325			
ALLAN MARTINI Facility Status: Closed Case Number: 9905320	***4005 - 4007 MAIN STR***	***G34 / 1***	***315***
Not reported Facility Status: Closed Case Number: 200306791	77 ENGLEWOOD AVE	35 / 1	320
Not reported Facility Status: CLOSED Case Number: 201606543	69 GOLDEN ROD AVE	36 / 1	321
Not reported Case Number: 103	55 STOEHRS RD	H37 / 1	322
Not reported Facility Status: Closed Case Number: 200106606	99 FERN STREET	I40 / 1	325
Not reported Facility Status: Closed Case Number: 200101322	254 THORNE ST.	J41 / 1	326
Not reported Facility Status: CLOSED Case Number: 201102778	434 AMSTERDAM AVE	K44 / 1	328
Not reported Facility Status: Closed Case Number: 200003626	269 SAVOY ST	L45 / 1	330
Not reported Facility Status: CLOSED Case Number: 200600927	297 WESTFIELD AVE	M46 / 1	331
Not reported Facility Status: closed Case Number: 200005590	311 WESTFIELD AVE	M48 / 1	332
Not reported Facility Status: CLOSED Case Number: 200603029	308 AMSTERDAM AVE.	M49 / 1	333
Not reported Facility Status: CLOSED Case Number: 201300501	40 HUNTING STREET	N52 / 1	336
Not reported Case Number: 200008243	513 FARIVIEW AVE	P56 / 1	340
Not reported Facility Status: CLOSED Case Number: 201100503	30 TREMONT AVE.	Q57 / 1	341
Not reported Case Number: 5815	53 BRONX AVE	61 / 1	347
Not reported Facility Status: CLOSED Case Number: 200301719	30 QUINCE STREEET	S63 / 1	350
Not reported Facility Status: CLOSED Case Number: 201701200	194 BRONX AVE	R65 / 1	353
Not reported	194 BRONX AVE	R66 / 1	354

Facility Status: CLOSED Case Number: 201701799			
Not reported Facility Status: CLOSED Case Number: 200704833	41 QUINCE ST.	S68 / 1	356
Not reported Facility Status: Closed Case Number: 200406733	183 BRONX AVENUE	R69 / 1	357
Not reported Facility Status: closed Case Number: 200202244	284 BRONX AVENUE	U73 / 1	360
Not reported Facility Status: Closed Case Number: 200505762	271 BRONX AVE.	U74 / 1	362
Not reported Facility Status: Closed Case Number: 200505944	355 MADISON TERR	W78 / 1	365
Not reported Case Number: 202004667	514 LINCOLN AVE.	W79 / 1	366
Not reported Facility Status: CLOSED Case Number: 201701469	572 GARFIELD	X80 / 1	367
Not reported Facility Status: CLOSED Case Number: 200602998	325 LINCOLN BLVD.	81 / 1	368

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 09/13/2021 has revealed that there are 2 RCRA NonGen / NLR sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EXXON CO USA 31660 EPA ID:: CTD983877283	***4315 MAIN ST***	***E18 / 1***	***105***
COLONIAL CLEANERS EPA ID:: CTD980906796	***4198 MAIN ST***	***F30 / 1***	***124***

FINDS: Facility Index System/Facility Registry System

A review of the FINDS list, as provided by EDR, and dated 05/05/2021 has revealed that there are 5 FINDS sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
SHELL SERVICE STATIO Registry ID:: 110030360026	4402 MAIN ST	D12 / 1	93
EXXON CO USA 31660	***4315 MAIN ST***	***E18 / 1***	***105***

Registry ID:: 110002490162			
BRAKE CENTERS OF AME Registry ID:: 110030411392	4315 MAIN ST	E20 / 1	111
AFC URGENT CARE Registry ID:: 110070057055	4200 MAIN ST	F28 / 1	122
COLONIAL CLEANERS Registry ID:: 110002478943	***4198 MAIN ST***	***F30 / 1***	***124***

ECHO: Enforcement & Compliance History Information

A review of the ECHO list, as provided by EDR, and dated 06/26/2021 has revealed that there are 2 ECHO sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EXXON CO USA 31660 Registry ID: 110002490162	***4315 MAIN ST***	***E18 / 1***	***105***
COLONIAL CLEANERS Registry ID: 110002478943	***4198 MAIN ST***	***F30 / 1***	***124***

CT AIRS: Permitted Air Sources Listing

A review of the CT AIRS list, as provided by EDR, and dated 05/07/2021 has revealed that there is 1 CT AIRS site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
COLONIAL CLEANERS	***4198 MAIN ST***	***F30 / 1***	***124***

CT ASBESTOS: Asbestos Notification Listing

A review of the CT ASBESTOS list, as provided by EDR, and dated 02/28/2021 has revealed that there are 19 CT ASBESTOS sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
DIANA ESTRADA	5 MACHALOWSKI ROAD	A2 / 1	60
JESUS ROSADO	360 CAMBRIDGE ST	B4 / 1	62
4425 MAIN STREET, LL	4425 MAIN ST	C7 / 1	66
AMERIDGE CONDOS	1 VINCELETTE AVE.	D15 / 1	101
MCDONALDS USA LLC	***4219 MAIN STREET***	***F26 / 1***	***120***
ALEX BREINER	4196 MAIN ST	F27 / 1	122
MCDONALDS USA,LLC	50 LOURMEL STREET	31 / 1	313
LUIS CABRAL	55 STOEHRS PL	H38 / 1	324
ANNA KOHLER	262 THORME ST	J42 / 1	327
WEST COAST CAPITAL G	434 AMSTERDAM AVE	K43 / 1	328
BILL MILLER	40 HUNTING ST	N51 / 1	336
MR. LOU PROVENZANO	290 GURDON ST.	N54 / 1	339
ABRAHAM CISSE	88 HUNTING ST	O55 / 1	340
TONY OBUCKOWSKI	141 BRONX AVENUE	R67 / 1	355
DONNA BLAKE	205 MANHATTAN AVE.	T70 / 1	358
RYAN	191 BRONX AVE	71 / 1	358
JOHN ARONE TC CONTRA	1308 MADISON AVE	75 / 1	363
CHURCH/SYNAGOGUE	301 MADISON TERRACE	V76 / 1	363

EXECUTIVE SUMMARY

Site	Address	Map ID / Focus Map(s)	Page
REGINA SPEARS-CUFFEE	327 MADISON TER	V77 / 1	364

CT CPCS: Contaminated or Potentially Contaminated Sites

A review of the CT CPCS list, as provided by EDR, and dated 05/06/2021 has revealed that there are 2 CT CPCS sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
EXXON SERVICE STATIO	***4316 MAIN STREET***	***E23 / 1***	***115***
Lust Status: Pending			
ALLAN MARTINI	***4005 - 4007 MAIN STR***	***G34 / 1***	***315***
Lust Status: LUST Completed (DEP's significant hazard definition)			

CT DRYCLEANERS: Drycleaner Facilities

A review of the CT DRYCLEANERS list, as provided by EDR, and dated 07/18/2008 has revealed that there is 1 CT DRYCLEANERS site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
COLONIAL CLEANERS	***4198 MAIN ST***	***F30 / 1***	***124***

CT ENF: Enforcement Case Listing

A review of the CT ENF list, as provided by EDR, and dated 07/19/2021 has revealed that there is 1 CT ENF site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
SHELL SERVICE STATIO	***4402 MAIN ST***	***D14 / 1***	***94***
Status: Active			
Enforcement Action Id: NVAR17369--14158			
Enforcement Action Id: NOVUST-GB16-0027			

CT LEAD: Lead Inspection Database

A review of the CT LEAD list, as provided by EDR, and dated 03/26/2014 has revealed that there are 8 CT LEAD sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
Not reported	18 HUNTING ST APT 2	N50 / 1	334
Not reported	66 HUNTING ST	O53 / 1	338
Not reported	34 TREMONT AVE	Q58 / 1	342
Not reported	275 WAYNE ST	59 / 1	344
Not reported	2859 MAIN ST	60 / 1	345
Not reported	162 BRONX AVE	R62 / 1	349
Not reported	123 BRONX AVE FL 2	64 / 1	352
Not reported	254 BRONX AVE APT 3F	U72 / 1	359

CT MANIFEST: Hazardous Waste Manifest Data

A review of the CT MANIFEST list, as provided by EDR, and dated 03/24/2021 has revealed that there are 4 CT MANIFEST sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
SHELL SERVICE STATIO EPA Id: CESQG	***4402 MAIN ST***	***D14 / 1***	***94***
EXXON STATION EPA Id: CTP000011839	4315 MAIN ST	E21 / 1	112
NANCY LIQUORI EPA Id: CTD983877283	4315 MAIN STREET	E22 / 1	113
COLONIAL CLEANERS EPA Id: CTD980906796	***4198 MAIN ST***	***F30 / 1***	***124***

NY MANIFEST: Facility and Manifest Data

A review of the NY MANIFEST list, as provided by EDR, and dated 01/01/2019 has revealed that there are 2 NY MANIFEST sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
BRAKE CENTERS OF AME EPA ID: CTP033721995	4315 MAIN ST	E16 / 1	101
EXXON CO USA 31660 EPA ID: CTD983877283	***4315 MAIN ST***	***E18 / 1***	***105***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR Exclusive Historical Auto Stations

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 2 EDR Hist Auto sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
SERVICE RITE SHELL	4402 MAIN ST	D13 / 1	93
LIGOURIS SERVICE CEN	4315 MAIN ST	E19 / 1	111

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there is 1 EDR Hist Cleaner site within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
COLONIAL CLRS OF BRI	4198 MAIN ST	F29 / 1	123

EXECUTIVE SUMMARY

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

CT RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

A review of the CT RGA LUST list, as provided by EDR, has revealed that there are 4 CT RGA LUST sites within the requested target property.

Site	Address	Map ID / Focus Map(s)	Page
SHELL FACILITY NO. 1	4402 MAIN STREET	D10 / 1	91
EXXON SERVICE STATIO	4316 MAIN STREET	E24 / 1	119
Not reported	99 FERN STREET	I39 / 1	325
Not reported	311 WESTFIELD AVE	M47 / 1	332

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Page Numbers and Map Identifcations refer to the EDR Area/Corridor Report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

A review of the RCRA-LQG list, as provided by EDR, and dated 09/13/2021 has revealed that there are 2 RCRA-LQG sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
ST VINCENT'S MEDICAL EPA ID:: CTD072147259	***2800 MAIN ST***	***ESE 0 - 1/8 (0.020 mi.)***	***AE179 / 1***	***2373***
CVS PHARMACY 2143 EPA ID:: CTR000509588	3710 MAIN ST	ENE 0 - 1/8 (0.096 mi.)	BU522 / 1	3183

RCRA-SQG: RCRA - Small Quantity Generators

A review of the RCRA-SQG list, as provided by EDR, and dated 09/13/2021 has revealed that there are 3 RCRA-SQG sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
CONTINENTAL CLEANERS	***1183 MADISON AVE***	***E 0 - 1/8 (0.013 mi.)***	***AA95 / 1***	***470***

EPA ID:: CTD981062391				
MADISON CLEANERS	***1165 MADISON AVE***	***ENE 0 - 1/8 (0.018 mi.)***	***AA109 / 1***	***492***
EPA ID:: CTD983868639				
MOBIL OIL CORP SERV	***3691 MAIN ST***	***NE 0 - 1/8 (0.069 mi.)***	***BU391 / 1***	***2711***
EPA ID:: CTD983878471				

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

A review of the RCRA-VSQG list, as provided by EDR, and dated 09/13/2021 has revealed that there are 6 RCRA-VSQG sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
WALGREENS #7522	4083 MAIN STREET	ENE 0 - 1/8 (0.022 mi.)	AI197 / 1	2430
EPA ID:: CTR000518316				
SUNOCO SERVICE STA	***4063 MAIN ST***	***ENE 0 - 1/8 (0.042 mi.)***	***AS261 / 1***	***2555***
EPA ID:: CTD000842187				
MXI ENV HHHWC	425 THORME ST	W 0 - 1/8 (0.118 mi.)	DM611 / 1	3492
EPA ID:: CTP000033918				
MXI ENVIRONMENTAL HH	425 THORME ST	W 0 - 1/8 (0.118 mi.)	DM616 / 1	3497
PETCO #3778	4559 MAIN ST	WSW 1/8 - 1/4 (0.126 mi.)	DJ662 / 1	3630
EPA ID:: CTR000517862				
ALEXANDERS TUXEDOS	***3079 MAIN ST***	***NW 1/8 - 1/4 (0.188 mi.)***	***FL874 / 1***	***3881***
EPA ID:: CTD045170792				

Federal ERNS list

ERNS: Emergency Response Notification System

A review of the ERNS list, as provided by EDR, and dated 06/14/2021 has revealed that there are 3 ERNS sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
Not reported	4 EVERETT ST	W 0 - 1/8 (0.109 mi.)	CG565 / 1	3428
NRC Report #: 937222				
Incident Date Time: 2010-04-16 09:00:00				
Not reported	272 GOLDENROD AVENUE	WSW 1/8 - 1/4 (0.136 mi.)	DX709 / 1	3698
NRC Report #: 1262191				
Incident Date Time: 10/16/2019 15:00				
Not reported	2613 MAIN ST	SSE 1/8 - 1/4 (0.209 mi.)	FI943 / 1	4061

State- and tribal - equivalent CERCLIS

CT SDADB: Site Discovery and Assessment Database

A review of the CT SDADB list, as provided by EDR, and dated 04/23/2010 has revealed that there are 9 CT SDADB sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
ST. VINCENT'S MEDICA Facility Id: 3902	***2800 MAIN ST***	***ESE 0 - 1/8 (0.020 mi.)***	***AE128 / 1***	***2264***
CUMBERLAND FARMS INC Facility Id: 3870	4464 MAIN STREET	NW 0 - 1/8 (0.022 mi.)	C195 / 1	2427
MOBIL CORP. #06-HEQ Facility Id: 1931	***3691 MAIN STREET***	***NE 0 - 1/8 (0.069 mi.)***	***BU385 / 1***	***2699***
VALVOLINE INSTANT OI Facility Id: 3906	***4154 MAIN STREET***	***SE 0 - 1/8 (0.071 mi.)***	***AW404 / 1***	***2758***
CONSUMERS PETROLEUM Facility Id: 3877	***3800 MAIN STREET***	***ENE 0 - 1/8 (0.080 mi.)***	***CI471 / 1***	***3111***
EQUESTRIAN ESTATES D Facility Id: 2842	***505, 599 & 645 SYLVA***	***E 0 - 1/8 (0.109 mi.)***	***DC567 / 1***	***3429***
SNET Facility Id: 3898	***3658 MAIN STREET***	***ENE 0 - 1/8 (0.116 mi.)***	***602 / 1***	***3480***
CLEANORAMA INC Facility Id: 1609	***4533 MAIN ST***	***NW 0 - 1/8 (0.123 mi.)***	***CT643 / 1***	***3538***
SHELL STATION Facility Id: 2916	2613 MAIN STREET	SSE 1/8 - 1/4 (0.209 mi.)	FI935 / 1	4032

State and tribal leaking storage tank lists

CT LUST: Leaking Underground Storage Tank List

A review of the CT LUST list, as provided by EDR, and dated 06/07/2021 has revealed that there are 43 CT LUST sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
ST. VINCENT'S MEDICA LUST Id: 31618	***2800 MAIN ST***	***ESE 0 - 1/8 (0.020 mi.)***	***AE128 / 1***	***2264***
PEZZELLA LUST Id: 36353	***55 TREMONT AVE***	***WSW 0 - 1/8 (0.027 mi.)***	***Q211 / 1***	***2445***
CITY OF BRIDGEPORT LUST Id: 36101	***376 WAYNE ST.***	***ENE 0 - 1/8 (0.034 mi.)***	***AO233 / 1***	***2469***
GRAND GARAGE LUST Id: 28095	***1041 MADISON AVE***	***ESE 0 - 1/8 (0.038 mi.)***	***AD247 / 1***	***2485***
Not reported LUST Id: 60491	***1210 MADISON AVENUE***	***NE 0 - 1/8 (0.041 mi.)***	***AA255 / 1***	***2529***
MOBIL STATION (PORTE LUST Id: 31018	***7 WAYNE STREET***	***NNE 0 - 1/8 (0.045 mi.)***	***AY296 / 1***	***2598***
ACERO RESIDENCE	***225 ROCTON AVENUE***	***E 0 - 1/8 (0.062 mi.)***	***BO346 / 1***	***2650***

LUST Id: 36923				
TOM CORBETT RESIDENC	***43 HILLVIEW***	***WNW 0 - 1/8 (0.063 mi.)***	***BQ351 / 1***	***2657***
LUST Id: 30567				
ISRAEL RUBIN	***226 WESTFIELD AVENUE***	***NE 0 - 1/8 (0.067 mi.)***	***BP375 / 1***	***2684***
LUST Id: 33928				
MOBIL SERVICE STATIO	***3691 MAIN STREET***	***NE 0 - 1/8 (0.069 mi.)***	***BU387 / 1***	***2703***
LUST Id: 48663				
3741 MAIN STREET	***3741 MAIN STREET***	***ENE 0 - 1/8 (0.069 mi.)***	***BU395 / 1***	***2741***
LUST Id: 31437				
AAMACO	***3956 MAIN ST***	***E 0 - 1/8 (0.074 mi.)***	***CB429 / 1***	***2979***
LUST Id: 35133				
DR. WEINSTEIN	***2962 MAIN STREET***	***NNW 0 - 1/8 (0.075 mi.)***	***BR443 / 1***	***3077***
LUST Id: 32058				
WALTER KELL	***77 OCHSNER ST.***	***NW 0 - 1/8 (0.076 mi.)***	***CE454 / 1***	***3090***
LUST Id: 35266				
CONSUMERS PETROLEUM	***3800 MAIN STREET***	***ENE 0 - 1/8 (0.080 mi.)***	***CI471 / 1***	***3111***
LUST Id: 35522				
FRANK CARRANO	***33 CLARKE STREET***	***E 0 - 1/8 (0.086 mi.)***	***BK483 / 1***	***3130***
LUST Id: 36157				
PEREIRA RESIDENCE	***691 FAIRVIEW AVENUE***	***SW 0 - 1/8 (0.105 mi.)***	***CP541 / 1***	***3392***
LUST Id: 34525				
LEONARD RUTKOWSKY	***168 MARION STREET***	***SSE 0 - 1/8 (0.109 mi.)***	***DA553 / 1***	***3407***
LUST Id: 33569				
Not reported	819 LINDLEY STREET	SSE 0 - 1/8 (0.109 mi.)	CM554 / 1	3411
LUST Id: 48931				
SCHNEIDER, EUGENE &	***215 CLEVELAND AVE***	***SE 1/8 - 1/4 (0.128 mi.)***	***CV675 / 1***	***3644***
LUST Id: 34375				
HIGH SCHOOL	***425 THOMAS ST.***	***W 1/8 - 1/4 (0.134 mi.)***	***DM697 / 1***	***3672***
LUST Id: 29720				
CARDILLO	***169 TREMONT AVENUE***	***WNW 1/8 - 1/4 (0.134 mi.)***	***DD698 / 1***	***3675***
LUST Id: 32799				
CERVERA RESIDENCE	***150 GURDON***	***SSE 1/8 - 1/4 (0.135 mi.)***	***DE700 / 1***	***3680***
LUST Id: 29299				
MR. FRANK JIANATASIO	***371 CLARK ST.***	***W 1/8 - 1/4 (0.136 mi.)***	***DZ713 / 1***	***3702***
LUST Id: 36186				
COCCA	***115 SAVOY STREET***	***ENE 1/8 - 1/4 (0.137 mi.)***	***EB717 / 1***	***3709***
LUST Id: 48932				
UNKNOWN	***140 GURDON STREET***	***SSE 1/8 - 1/4 (0.143 mi.)***	***DE727 / 1***	***3721***
LUST Id: 34978				
PEOPLE'S SAVINGS BAN	***790 LINCOLN AVENUE***	***WSW 1/8 - 1/4 (0.146 mi.)***	***EC732 / 1***	***3728***
LUST Id: 37342				
COLE	***219 JACKSON AVENUE***	***SE 1/8 - 1/4 (0.158 mi.)***	***790 / 1***	***3783***
LUST Id: 34618				
RAY VIDA	***450 DEXTER DR.***	***E 1/8 - 1/4 (0.158 mi.)***	***EP795 / 1***	***3791***
LUST Id: 36270				
WOLTCH RESIDENCE	***169 WOODSIDE AVENUE***	***NE 1/8 - 1/4 (0.171 mi.)***	***ES814 / 1***	***3813***

LUST Id: 49001				
OSWALDO TORRES LUST Id: 37137	***90-92 JACKSON AVE***	***ESE 1/8 - 1/4 (0.181 mi.)***	***EE843 / 1***	***3844***
GREG DREW / CENTURY LUST Id: 33035	***53 WILCOX STREET***	***NNE 1/8 - 1/4 (0.183 mi.)***	***FD848 / 1***	***3852***
GEORGE SEPI ,DBA DON LUST Id: 32734	***215 SALEM ST 550 UST***	***SSE 1/8 - 1/4 (0.187 mi.)***	***FI867 / 1***	***3871***
SELL FACILITY NO. 13 LUST Id: 48619	2613 MAIN STREET	SSE 1/8 - 1/4 (0.209 mi.)	FI930 / 1	4030
Not reported LUST Id: 49089	2613 MAIN STREET	SSE 1/8 - 1/4 (0.209 mi.)	FI937 / 1	4037
SHELL FACILITY NO. 1 LUST Id: 48646	2613 MAIN STREET	SSE 1/8 - 1/4 (0.209 mi.)	FI938 / 1	4038
SHELL FACILITY 13628 LUST Id: 48749	2613 MAIN STREET	SSE 1/8 - 1/4 (0.209 mi.)	FI941 / 1	4060
SHELL FACILITY #1362 LUST Id: 48630	2613 MAIN STREET	SSE 1/8 - 1/4 (0.209 mi.)	FI942 / 1	4061
SHELL FACILITY NO. 1 LUST Id: 45737	2613 MAIN STREET	SSE 1/8 - 1/4 (0.209 mi.)	FI945 / 1	4063
SHELL FACILITY NO. 1 LUST Id: 48667	2613 MAIN STREET	SSE 1/8 - 1/4 (0.209 mi.)	FI948 / 1	4065
SHELL FACILITY NO. 1 LUST Id: 48687	2613 MAIN STREET	SSE 1/8 - 1/4 (0.209 mi.)	FI949 / 1	4065
NOVA REALTY LUST Id: 31087	140 LINCOLN AVENUE	ENE 1/8 - 1/4 (0.216 mi.)	FT958 / 1	4077
UNKNOWN LUST Id: 31069	140 LINCOLN AVENUE	ENE 1/8 - 1/4 (0.216 mi.)	FT963 / 1	4078

State and tribal registered storage tank lists

CT UST: Underground Storage Tank Data

A review of the CT UST list, as provided by EDR, and dated 05/17/2021 has revealed that there are 26 CT UST sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
ST. VINCENT'S MEDICA Facility Id: 15-3388 Tank Status: Permanently Closed Tank Status: Currently In Use	***2800 MAIN ST***	***ESE 0 - 1/8 (0.020 mi.)***	***AE128 / 1***	***2264***
CARPENTER CHIROPRACT Facility Id: 15-11280 Tank Status: Permanently Closed	4444 MAIN ST	N 0 - 1/8 (0.021 mi.)	C187 / 1	2406
CUMBERLAND GULF #609 Facility Id: 15-3398 Tank Status: Permanently Closed	4464 MAIN ST	NW 0 - 1/8 (0.022 mi.)	C189 / 1	2413
GRAND GARAGE	***1041 MADISON AVE***	***ESE 0 - 1/8 (0.038 mi.)***	***AD247 / 1***	***2485***

Facility Id: 15-3528 Tank Status: Permanently Closed				
1210 MADISON AVE Facility Id: 15-2119 Tank Status: Permanently Closed Tank Status: Currently In Use	1210 MADISON AVE	NE 0 - 1/8 (0.041 mi.)	AA252 / 1	2499
MAIN STREET SUNOCO Facility Id: 15-3420 Tank Status: Permanently Closed Tank Status: Currently In Use	4063 MAIN ST	ENE 0 - 1/8 (0.042 mi.)	AS257 / 1	2538
READ SCHOOL Facility Id: 15-2366 Tank Status: Permanently Closed Tank Status: Currently In Use	130 EZRA ST	W 0 - 1/8 (0.043 mi.)	AT264 / 1	2559
BUZZ'S ENTERPRISES, Facility Id: 15-3545 Tank Status: Permanently Closed	4031 MAIN ST	NE 0 - 1/8 (0.044 mi.)	AS279 / 1	2578
FIVE CORNER AUTO SAL Facility Id: 15-3687 Tank Status: Permanently Closed	7 WAYNE ST	NNE 0 - 1/8 (0.045 mi.)	AY295 / 1	2591
BEREKET CITGO Facility Id: 15-12800 Tank Status: Currently In Use	4045 MAIN ST	NE 0 - 1/8 (0.049 mi.)	AS308 / 1	2610
MOBIL S/S #HEQ R/S # Facility Id: 15-3224 Tank Status: Permanently Closed Tank Status: Currently In Use	3691 MAIN ST	NE 0 - 1/8 (0.069 mi.)	BU392 / 1	2715
ALL CAR SERVICE & RE Facility Id: 15-3177 Tank Status: Permanently Closed	4154 MAIN ST	SE 0 - 1/8 (0.071 mi.)	AW403 / 1	2753
MAIN FREEDOM FUELS Facility Id: 15-2333 Tank Status: Permanently Closed Tank Status: Currently In Use	3956 MAIN ST	E 0 - 1/8 (0.074 mi.)	CB436 / 1	3040
3800 MAIN Facility Id: 15-2946 Tank Status: Permanently Closed	3800 MAIN ST	ENE 0 - 1/8 (0.080 mi.)	CI468 / 1	3105
NORTH BRIDGEPORT CEN Facility Id: 15-3535 Tank Status: Permanently Closed Tank Status: Currently In Use	3668 MAIN ST	ENE 0 - 1/8 (0.087 mi.)	BV492 / 1	3143
PAULS SERVICE CENTER Facility Id: 15-3304 Tank Status: Permanently Closed	819 LINDLEY ST	SSE 0 - 1/8 (0.109 mi.)	CM556 / 1	3415
BLACKHAM SCHOOL, SOU Facility Id: 15-2943 Tank Status: Permanently Closed	425 THORME ST	W 0 - 1/8 (0.118 mi.)	DM618 / 1	3499
CLEAN - O - RAMA, IN Facility Id: 15-3312 Tank Status: Currently In Use	4533 MAIN ST	NW 0 - 1/8 (0.123 mi.)	CT642 / 1	3537
FINAST SUPERMARKET	4531 MAIN ST	NW 0 - 1/8 (0.124 mi.)	CT652 / 1	3617

Facility Id: 15-3680 Tank Status: Temporarily Closed				
FRIENDLY SERVICE #25 Facility Id: 15-3195 Tank Status: Permanently Closed	941 MADISON AVE	SE 1/8 - 1/4 (0.132 mi.)	DK689 / 1	3659
DAVES AUTO SALES AND Facility Id: 15-2926 Tank Status: Permanently Closed Tank Status: Currently In Use	1564 MADISON AVE	W 1/8 - 1/4 (0.136 mi.)	DV704 / 1	3685
DOMENIC MONACO Facility Id: 15-11936 Tank Status: Permanently Closed	16 GRENELLE ST	E 1/8 - 1/4 (0.167 mi.)	EA807 / 1	3803
CITY OF BRIDGEPORT F Facility Id: 15-11847 Tank Status: Permanently Closed	265 BEECHMONT AVE	E 1/8 - 1/4 (0.191 mi.)	EX877 / 1	3972
SHERIDAN SCHOOL Facility Id: 15-2931 Tank Status: Permanently Closed	280 TESINY AVE	ENE 1/8 - 1/4 (0.192 mi.)	EN889 / 1	3986
SHELL SERVICE STATIO Facility Id: 15-3207 Tank Status: Permanently Closed Tank Status: Currently In Use	2613 MAIN ST	SSE 1/8 - 1/4 (0.209 mi.)	FI939 / 1	4038
CATHOLIC CENTER Facility Id: 15-3542 Tank Status: Permanently Closed Tank Status: Currently In Use	238 JEWETT AVE	WSW 1/8 - 1/4 (0.218 mi.)	FU968 / 1	4082

ADDITIONAL ENVIRONMENTAL RECORDS

Local Land Records

CT PROPERTY: Property Transfer Filings

A review of the CT PROPERTY list, as provided by EDR, and dated 04/09/2021 has revealed that there are 10 CT PROPERTY sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
ST. VINCENT'S MEDICA	***2800 MAIN ST***	***ESE 0 - 1/8 (0.020 mi.)***	***AE128 / 1***	***2264***
CUMBERLAND FARMS INC	4464 MAIN STREET	NW 0 - 1/8 (0.022 mi.)	C193 / 1	2424
MOBIL SERVICE STATIO	***3691 MAIN STREET***	***NE 0 - 1/8 (0.069 mi.)***	***BU387 / 1***	***2703***
VALVOLINE INSTANT OI	***4154 MAIN STREET***	***SE 0 - 1/8 (0.071 mi.)***	***AW404 / 1***	***2758***
CONSUMERS PETROLEUM	***3800 MAIN STREET***	***ENE 0 - 1/8 (0.080 mi.)***	***CI471 / 1***	***3111***
EQUESTRIAN ESTATES D	***505, 599 & 645 SYLVA***	***E 0 - 1/8 (0.109 mi.)***	***DC567 / 1***	***3429***
M2MTEL, LLC FORMER D	65A HAWLEY AVENUE	SE 0 - 1/8 (0.114 mi.)	CN585 / 1	3449
SNET	***3658 MAIN STREET***	***ENE 0 - 1/8 (0.116 mi.)***	***602 / 1***	***3480***
CLEAN-O-RAMA	4531-4577 MAIN STREE	NW 0 - 1/8 (0.124 mi.)	CT649 / 1	3607
1 AUTOMOTIVE SOLUTIO	710 LINDLEY STREET	SSE 1/8 - 1/4 (0.220 mi.)	FM976 / 1	4091

Records of Emergency Release Reports

CT SPILLS: Oil & Chemical Spill Database

A review of the CT SPILLS list, as provided by EDR, and dated 06/08/2021 has revealed that there are 327 CT SPILLS sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
Not reported Facility Status: CLOSED Case Number: 201700766	195 MANHATTAN AVE	ESE 0 - 1/8 (0.010 mi.)	T82 / 1	369
Not reported Facility Status: closed Case Number: 9804044	VINCELETT ST. COACHL	NE 0 - 1/8 (0.010 mi.)	D83 / 1	370
Not reported Case Number: 5899	VINCELETTE	NE 0 - 1/8 (0.010 mi.)	D84 / 1	371
Not reported Case Number: 5422	216 WAYNE ST	E 0 - 1/8 (0.011 mi.)	Y85 / 1	373
Not reported Facility Status: Closed Case Number: 200202387	442 AMSTERDAM AVE	W 0 - 1/8 (0.011 mi.)	K87 / 1	376
Not reported Facility Status: Closed Case Number: 200109773	56 JEWETT STREET	WSW 0 - 1/8 (0.011 mi.)	88 / 1	377
Not reported Facility Status: closed Case Number: 200406069	820 WAYNE STREET	WNW 0 - 1/8 (0.012 mi.)	Z90 / 1	379
Not reported Facility Status: CLOSED Case Number: 200603464	254 MADISON TERRACE	WNW 0 - 1/8 (0.012 mi.)	91 / 1	380
Not reported Case Number: 1056	280 GORDON ST	SE 0 - 1/8 (0.013 mi.)	92 / 1	381
Not reported Facility Status: CLOSED Case Number: 201503123	256 ARLINGTON STREET	WNW 0 - 1/8 (0.013 mi.)	AB97 / 1	477
Not reported Facility Status: CLOSED Case Number: 200902559	252 SAVOY STREET	NE 0 - 1/8 (0.013 mi.)	L98 / 1	478
Not reported Case Number: 2220	MADISON/WAYNE ST	NE 0 - 1/8 (0.014 mi.)	AA99 / 1	479
Not reported Facility Status: Closed Case Number: 9908595	322 WAYNE ST.	NNE 0 - 1/8 (0.017 mi.)	P103 / 1	486
Not reported Facility Status: closed Case Number: 200002132	2790 MAIN ST.	SE 0 - 1/8 (0.018 mi.)	AE111 / 1	675
Not reported Facility Status: CLOSED Case Number: 201604498	261 THORME ST	E 0 - 1/8 (0.019 mi.)	J114 / 1	677
ST. VINCENT'S MEDICA	***2800 MAIN ST***	***ESE 0 - 1/8 (0.020 mi.)***	***AE128 / 1***	***2264***

Facility Status: Closed Case Number: 200109830				
Not reported Facility Status: CLOSED Case Number: 201007320	2800 MAIN STREET ST.	ESE 0 - 1/8 (0.020 mi.)	AE143 / 1	2342
Not reported Facility Status: CLOSED Case Number: 201205794	2800 MAIN STREET, ST	ESE 0 - 1/8 (0.020 mi.)	AE160 / 1	2354
Not reported Facility Status: Closed Case Number: 200303563	2800 MAIN ST/ HALLEY	ESE 0 - 1/8 (0.020 mi.)	AE162 / 1	2356
Not reported Facility Status: Closed Case Number: 9807956	2800 MAIN STREET - S	ESE 0 - 1/8 (0.020 mi.)	AE175 / 1	2370
Not reported Facility Status: Closed Case Number: 200501322	111 LOURMEL ST	WSW 0 - 1/8 (0.020 mi.)	182 / 1	2401
Not reported Facility Status: CLOSED Case Number: 201006921	314 THORME ST	W 0 - 1/8 (0.020 mi.)	AF183 / 1	2402
Not reported Facility Status: Closed Case Number: 200506482	577 FAIRVIEW AVE	WSW 0 - 1/8 (0.021 mi.)	Q184 / 1	2403
Not reported Facility Status: closed Case Number: 200203743	1046 - 1050 MADISON	ENE 0 - 1/8 (0.021 mi.)	AG185 / 1	2405
Not reported Facility Status: Closed Case Number: 200408285	1075 MADISON AVENUE	E 0 - 1/8 (0.022 mi.)	AD201 / 1	2436
Not reported Facility Status: Closed Case Number: 9801455	STOEHR PLACE/FERN ST	NE 0 - 1/8 (0.023 mi.)	H205 / 1	2441
Not reported Facility Status: Closed Case Number: 200106389	270 AMSTERDAM AVENUE	SW 0 - 1/8 (0.027 mi.)	AC208 / 1	2443
Not reported Facility Status: Closed Case Number: 200008244	513 FAIRVIEW AVENUE	E 0 - 1/8 (0.027 mi.)	P209 / 1	2444
PEZZELLA Facility Status: Closed Case Number: 9903710	***55 TREMONT AVE***	***WSW 0 - 1/8 (0.027 mi.)***	***Q211 / 1***	***2445***
Not reported Facility Status: Closed Case Number: 200304335	251 THORME STREET	E 0 - 1/8 (0.028 mi.)	J212 / 1	2449
Not reported Facility Status: Closed Case Number: 200303910	25 OAKWOOD STREET	ENE 0 - 1/8 (0.029 mi.)	AK214 / 1	2451
Not reported Facility Status: Closed	525 LINCOLN AVE	E 0 - 1/8 (0.029 mi.)	215 / 1	2452

Case Number: 200202000				
Not reported Facility Status: Closed Case Number: 200005325	47 FAIRVIEW AVE.	W 0 - 1/8 (0.032 mi.)	AM218 / 1	2454
Not reported Facility Status: Closed Case Number: 200001587	255 HARLEM AVE.	N 0 - 1/8 (0.032 mi.)	S220 / 1	2456
Not reported Facility Status: Closed Facility Status: CLOSED Case Number: 9605412 Case Number: 9606480	255 HARLEM AVENUE	N 0 - 1/8 (0.032 mi.)	S221 / 1	2457
Not reported Facility Status: Closed Case Number: 200503501	46 MARSDALE AVE	W 0 - 1/8 (0.032 mi.)	AN223 / 1	2460
Not reported Facility Status: CLOSED Case Number: 200807707	125 SAQUOIA ROAD	WNW 0 - 1/8 (0.033 mi.)	224 / 1	2461
Not reported Facility Status: CLOSED Case Number: 201804806	421 LICOLN AVE	SSE 0 - 1/8 (0.033 mi.)	AL226 / 1	2463
Not reported Facility Status: CLOSED Case Number: 200606763	160 GLENNDALE AVE	WSW 0 - 1/8 (0.034 mi.)	230 / 1	2467
CITY OF BRIDGEPORT Facility Status: Closed Case Number: 9902770	***376 WAYNE ST.***	***ENE 0 - 1/8 (0.034 mi.)***	***AO233 / 1***	***2469***
CT DEP EMERG RESP PE Facility Status: Closed Case Number: 200308259	***1128 MADISON AVE***	***ENE 0 - 1/8 (0.035 mi.)***	***AG234 / 1***	***2473***
Not reported Case Number: 3930	391 LINCOLN AVE	SE 0 - 1/8 (0.036 mi.)	235 / 1	2475
Not reported Facility Status: Closed Case Number: 200101959	47 MANHATTEN AVE.	NNW 0 - 1/8 (0.036 mi.)	R236 / 1	2477
Not reported Case Number: 202004342	2875 MAIN STREET	NNW 0 - 1/8 (0.037 mi.)	240 / 1	2480
Not reported Facility Status: Closed Case Number: 200308771	695 WAYNE STREET	E 0 - 1/8 (0.038 mi.)	244 / 1	2483
GRAND GARAGE Facility Status: Closed Case Number: 200007009	***1041 MADISON AVE***	***ESE 0 - 1/8 (0.038 mi.)***	***AD247 / 1***	***2485***
Not reported Facility Status: Closed Case Number: 200303003	603 WAYNE STREET	ENE 0 - 1/8 (0.040 mi.)	AR251 / 1	2498
Not reported Facility Status: CLOSED Case Number: 201700533	***1210 MADISON AVENUE***	***NE 0 - 1/8 (0.041 mi.)***	***AA255 / 1***	***2529***

Case Number: 201901883				
Not reported Case Number: 202101027	1210 MADSION AVE SUN	NE 0 - 1/8 (0.041 mi.)	AA256 / 1	2537
READ SCHOOL Facility Status: Closed Case Number: 200108592	***130 EZRA ST***	***W 0 - 1/8 (0.043 mi.)***	***AT267 / 1***	***2563***
Not reported Facility Status: closed Case Number: 200108457	130 EZRA STREET - RE	W 0 - 1/8 (0.043 mi.)	AT268 / 1	2566
Not reported Facility Status: Closed Case Number: 200308823 Case Number: 200401602	273 AMSTERDAM AVE	S 0 - 1/8 (0.043 mi.)	AC270 / 1	2569
Not reported Facility Status: CLOSED Case Number: 201100549	886 LINDLEY ST. AT H	SE 0 - 1/8 (0.044 mi.)	AV273 / 1	2572
BUZZS SVS STATION Case Number: 1221	***4031 MAIN ST***	***NE 0 - 1/8 (0.044 mi.)***	***AS280 / 1***	***2580***
Not reported Facility Status: Closed Case Number: 200007080	423 WAYNE ST	NE 0 - 1/8 (0.044 mi.)	M286 / 1	2586
Not reported Facility Status: CLOSED Case Number: 200703581	639 WAYNE STREET	NE 0 - 1/8 (0.046 mi.)	AR298 / 1	2602
Not reported Facility Status: closed Case Number: 200108217	HAWLEY AVENUE	ESE 0 - 1/8 (0.048 mi.)	AJ299 / 1	2603
Not reported Facility Status: Closed Case Number: 200005844	4143 MAIN ST.	SSE 0 - 1/8 (0.048 mi.)	AW300 / 1	2604
Not reported Facility Status: Closed Case Number: 200503269	630 FAIRVIEW AVE	SSW 0 - 1/8 (0.049 mi.)	AZ302 / 1	2606
Not reported Facility Status: Closed Case Number: 200202582	349 EZRA STREET	WNW 0 - 1/8 (0.049 mi.)	BA303 / 1	2607
Not reported Facility Status: Closed Case Number: 200005684	213 THORME ST.	ESE 0 - 1/8 (0.049 mi.)	AQ304 / 1	2608
Not reported Facility Status: CLOSED Case Number: 200704987	10 OAKWOOD DR POLE 9	NE 0 - 1/8 (0.051 mi.)	AK311 / 1	2616
Not reported Facility Status: CLOSED Case Number: 201206226	ST. VINCENT'S HOSPIT	SSE 0 - 1/8 (0.052 mi.)	AJ315 / 1	2619
Not reported Case Number: 1614	KOECHLE PLACE	S 0 - 1/8 (0.052 mi.)	BE316 / 1	2620
Not reported Facility Status: Closed	55 VINCELETTE STREET	SW 0 - 1/8 (0.052 mi.)	BF319 / 1	2624

Case Number: 200107458				
Not reported Facility Status: Closed Case Number: 200300079	513 GARFIELD AVE	E 0 - 1/8 (0.052 mi.)	AP321 / 1	2626
Not reported Facility Status: Closed Case Number: 200208659	282 BIRMINGHAM ST	NW 0 - 1/8 (0.053 mi.)	323 / 1	2628
Not reported Facility Status: Closed Facility Status: CLOSED Case Number: 200203881 Case Number: 201104433	2200 OLD TOWN ROAD	ENE 0 - 1/8 (0.054 mi.)	BI327 / 1	2631
Not reported Facility Status: CLOSED Case Number: 201904026	720 FRENCHTOWN ROAD	E 0 - 1/8 (0.055 mi.)	330 / 1	2634
Not reported Facility Status: Closed Case Number: 200203442	692 LINCOLN AVE	W 0 - 1/8 (0.057 mi.)	333 / 1	2637
Not reported Facility Status: CLOSED Case Number: 200601049	54 CLARK ST.	E 0 - 1/8 (0.059 mi.)	BK336 / 1	2639
Not reported Facility Status: CLOSED Case Number: 201504402	69 MARSDALE AVE	W 0 - 1/8 (0.059 mi.)	AN337 / 1	2640
Not reported Facility Status: Closed Case Number: 200002718	1086 CAPITOL AVE	SSE 0 - 1/8 (0.060 mi.)	BL338 / 1	2642
Not reported Facility Status: CLOSED Case Number: 200806831	627 FAIRVIEW AVENUE	WSW 0 - 1/8 (0.060 mi.)	AZ339 / 1	2643
Not reported Facility Status: Closed Case Number: 200003109	1405 MADISON AVE.	WSW 0 - 1/8 (0.060 mi.)	BM340 / 1	2644
Not reported Facility Status: Closed Case Number: 200504511	58 MANHATTAN	NNW 0 - 1/8 (0.061 mi.)	BN343 / 1	2646
Not reported Facility Status: Closed Case Number: 200504483 Case Number: 200505290	58 MANHATTAN AVE	NNW 0 - 1/8 (0.061 mi.)	BN344 / 1	2647
ACERO RESIDENCE Facility Status: closed Case Number: 9906072	***225 ROCTON AVENUE***	***E 0 - 1/8 (0.062 mi.)***	***BO346 / 1***	***2650***
Not reported Facility Status: Closed Case Number: 200400916	448 WAYNE STREET	ESE 0 - 1/8 (0.063 mi.)	BP348 / 1	2655
Not reported Facility Status: CLOSED Case Number: 200601259	195 GOLDENROD AVE	WSW 0 - 1/8 (0.063 mi.)	353 / 1	2660
Not reported	1415 MADISON AVE	WSW 0 - 1/8 (0.064 mi.)	BM355 / 1	2662

Facility Status: closed Case Number: 200103667				
Not reported Facility Status: CLOSED Case Number: 201605875	3965 MAIN ST	ESE 0 - 1/8 (0.064 mi.)	BB356 / 1	2663
Not reported Facility Status: CLOSED Case Number: 200707502	60 OAKWOOD ST	NE 0 - 1/8 (0.065 mi.)	BS358 / 1	2665
Not reported Facility Status: CLOSED Case Number: 200707610	36-38 WAYNE ST	E 0 - 1/8 (0.065 mi.)	AY359 / 1	2666
Not reported Facility Status: Closed Case Number: 200105470	92 MARSDALE AVE	NW 0 - 1/8 (0.065 mi.)	BT360 / 1	2667
Not reported Facility Status: Closed Case Number: 200001568	670 FAIRVIEW AVE	SW 0 - 1/8 (0.066 mi.)	AZ363 / 1	2669
Not reported Facility Status: Closed Case Number: 200501779	63 CLARK ST	E 0 - 1/8 (0.066 mi.)	BD365 / 1	2671
Not reported Facility Status: Closed Case Number: 200106699	3715 MAIN ST (REAR)	ENE 0 - 1/8 (0.067 mi.)	BU369 / 1	2677
Not reported Facility Status: CLOSED Case Number: 201305157	3715 MAIN STREET SUI	ENE 0 - 1/8 (0.067 mi.)	BU370 / 1	2678
Not reported Case Number: 275	43 HILLVIEW ST	W 0 - 1/8 (0.067 mi.)	BQ372 / 1	2680
Not reported Facility Status: Closed Case Number: 200000311	226 WESTFIELD AVE.	NE 0 - 1/8 (0.067 mi.)	BP374 / 1	2682
ISRAEL RUBIN Facility Status: Closed Case Number: 9802663	***226 WESTFIELD AVENUE***	***NE 0 - 1/8 (0.067 mi.)***	***BP375 / 1***	***2684***
Not reported Facility Status: Closed Case Number: 9802406	226 WEST FIELD AVENU	NE 0 - 1/8 (0.067 mi.)	BP376 / 1	2688
Not reported Facility Status: Closed Case Number: 200301992	276 CLARKE ST.	W 0 - 1/8 (0.068 mi.)	379 / 1	2689
Not reported Case Number: 7091	195 JEWETT AVE	WSW 0 - 1/8 (0.068 mi.)	380 / 1	2690
Not reported Facility Status: CLOSED Case Number: 200603001	3691 MAIN ST. EXXON	NE 0 - 1/8 (0.069 mi.)	BU382 / 1	2694
Not reported Facility Status: CLOSED Case Number: 201701170 Case Number: 3337	3691 MAIN ST	NE 0 - 1/8 (0.069 mi.)	BU384 / 1	2695
MOBIL CORP. #06-HEQ	***3691 MAIN STREET***	***NE 0 - 1/8 (0.069 mi.)***	***BU385 / 1***	***2699***

Facility Status: CLOSED Case Number: 200901153 Case Number: 201904630				
Not reported Facility Status: OPEN Case Number: 201805907	3691 MAIN STREET	NE 0 - 1/8 (0.069 mi.)	BU386 / 1	2702
Not reported Facility Status: CLOSED Case Number: 201801443	3691 MAIN ST.	NE 0 - 1/8 (0.069 mi.)	BU390 / 1	2710
Not reported Facility Status: Closed Case Number: 200407905	3653 MAIN STREET	NE 0 - 1/8 (0.069 mi.)	BV393 / 1	2739
Not reported Facility Status: CLOSED Case Number: 201203630	161 HIGH RIDGE DRIVE	WNW 0 - 1/8 (0.069 mi.)	BW394 / 1	2740
3741 MAIN STREET Facility Status: Closed Case Number: 9705108	***3741 MAIN STREET***	***ENE 0 - 1/8 (0.069 mi.)***	***BU395 / 1***	***2741***
Not reported Facility Status: CLOSED Case Number: 201606822	153 TERRY PLACE	ENE 0 - 1/8 (0.070 mi.)	AR399 / 1	2750
Not reported Facility Status: Closed Case Number: 200500180	2170 OLD TOWN RD	E 0 - 1/8 (0.070 mi.)	BI400 / 1	2751
Not reported Facility Status: CLOSED Case Number: 201902911	2170 OLD TOWN ROAD	E 0 - 1/8 (0.070 mi.)	BI401 / 1	2752
Not reported Facility Status: CLOSED Case Number: 200805145	1122 LINDLEY STREET	WNW 0 - 1/8 (0.072 mi.)	BA408 / 1	2763
Not reported Facility Status: CLOSED Case Number: 9605098	GORDON STREET - BACK	SSE 0 - 1/8 (0.073 mi.)	BY410 / 1	2765
Not reported Facility Status: CLOSED Case Number: 201104225	191 HIGH RIDGE DR.	W 0 - 1/8 (0.073 mi.)	BW412 / 1	2766
Not reported Facility Status: CLOSED Case Number: 200706576	4100 MAIN STREET	ENE 0 - 1/8 (0.073 mi.)	BH415 / 1	2771
Not reported Facility Status: CLOSED Case Number: 201504731	220 SUMMITT AVE	N 0 - 1/8 (0.073 mi.)	419 / 1	2969
Not reported Facility Status: CLOSED Case Number: 200700708	3956 MAIN ST - FREED	E 0 - 1/8 (0.074 mi.)	CB422 / 1	2972
Not reported Case Number: 3470	3956 MAIN ST	E 0 - 1/8 (0.074 mi.)	CB428 / 1	2977
AAMACO Facility Status: Closed	***3956 MAIN ST***	***E 0 - 1/8 (0.074 mi.)***	***CB429 / 1***	***2979***

Case Number: 9808378				
Not reported Facility Status: CLOSED Case Number: 201005049	3956 MAIN STREET (FR	E 0 - 1/8 (0.074 mi.)	CB435 / 1	3039
Not reported Facility Status: CLOSED Case Number: 201300827	3956 MAIN ST	E 0 - 1/8 (0.074 mi.)	CB437 / 1	3073
DR. WEINSTEIN Facility Status: Closed Case Number: 9900869	***2962 MAIN STREET***	***NNW 0 - 1/8 (0.075 mi.)***	***BR443 / 1***	***3077***
Not reported Facility Status: Closed Case Number: 9908415	38 CORNELL STREET	WSW 0 - 1/8 (0.075 mi.)	BC448 / 1	3084
Not reported Facility Status: Closed Case Number: 9904301	3591 MAIN ST.	NE 0 - 1/8 (0.075 mi.)	450 / 1	3085
Not reported Case Number: 4693	285 MARION ST	NE 0 - 1/8 (0.075 mi.)	BX451 / 1	3087
WALTER KELL Facility Status: Closed Case Number: 9808848	***77 OCHSNER ST.***	***NW 0 - 1/8 (0.076 mi.)***	***CE454 / 1***	***3090***
Not reported Facility Status: Closed Case Number: 200309116	99 FAIRVIEW AVE	W 0 - 1/8 (0.077 mi.)	455 / 1	3094
Not reported Facility Status: CLOSED Case Number: 201606943	324 BIRMINGHAM ST	WNW 0 - 1/8 (0.077 mi.)	457 / 1	3097
Not reported Facility Status: Closed Case Number: 200408831	1470 MADISON AVE	WSW 0 - 1/8 (0.077 mi.)	CG459 / 1	3099
Not reported Facility Status: closed Case Number: 200504454	221 HIGH RIDGE DRIVE	NW 0 - 1/8 (0.080 mi.)	CH465 / 1	3103
Not reported Facility Status: Closed Case Number: 200204668	HAWLEY AVE AT HART S	S 0 - 1/8 (0.080 mi.)	CJ472 / 1	3118
Not reported Facility Status: Closed Case Number: 200306752	1075 CAPITOL AVE	SSE 0 - 1/8 (0.081 mi.)	BL473 / 1	3119
MIKE LEWIS Facility Status: Closed Case Number: 200102988	***386 ANSON STREET***	***NNW 0 - 1/8 (0.082 mi.)***	***CK475 / 1***	***3121***
Not reported Facility Status: CLOSED Case Number: 201107552	399 SAVOY ST,	W 0 - 1/8 (0.083 mi.)	476 / 1	3123
Not reported Case Number: 202005053	2478 OLD TOWN ROAD	NW 0 - 1/8 (0.085 mi.)	479 / 1	3125
Not reported Facility Status: Closed	233 HIGH RIDGE DRIVE	NW 0 - 1/8 (0.086 mi.)	CH481 / 1	3126

Case Number: 200407913				
Not reported Facility Status: CLOSED Case Number: 200608160 Case Number: 200700836	1115 LINDLEY ST	W 0 - 1/8 (0.086 mi.)	482 / 1	3127
FRANK CARRANO Facility Status: Closed Case Number: 9902962	***33 CLARKE STREET***	***E 0 - 1/8 (0.086 mi.)***	***BK483 / 1***	***3130***
Not reported Facility Status: CLOSED Case Number: 201400695	1204 CAPITOL AVE	SSW 0 - 1/8 (0.087 mi.)	CL485 / 1	3134
Not reported Facility Status: closed Case Number: 9801118	141 SUMMIT ST.	NNE 0 - 1/8 (0.087 mi.)	BS486 / 1	3135
NORTH BRIDGEPORT CEN Case Number: 3179	***3668 MAIN ST***	***ENE 0 - 1/8 (0.087 mi.)***	***BV493 / 1***	***3151***
Not reported Facility Status: Closed Case Number: 9907779	984 CAPITAL AVE	E 0 - 1/8 (0.089 mi.)	497 / 1	3156
Not reported Case Number: 3230	LINLY/HAWLEY	SSE 0 - 1/8 (0.089 mi.)	CM498 / 1	3158
Not reported Facility Status: Closed Case Number: 200302521	310 GARFIELD AVE	E 0 - 1/8 (0.090 mi.)	BZ499 / 1	3160
Not reported Facility Status: CLOSED Case Number: 201100581	169 VINCELLETTE ST.	W 0 - 1/8 (0.090 mi.)	CO502 / 1	3162
Not reported Case Number: 4439	104 PERTH ST	W 0 - 1/8 (0.091 mi.)	504 / 1	3164
Not reported Facility Status: closed Case Number: 200208320	681 FAIRVIEW AVENUE	SW 0 - 1/8 (0.091 mi.)	CP506 / 1	3167
Not reported Facility Status: Closed Case Number: 200110053	470 SALEM ST	ENE 0 - 1/8 (0.091 mi.)	BX508 / 1	3169
Not reported Facility Status: Closed Case Number: 200300431	94 KEELER AVE	ESE 0 - 1/8 (0.092 mi.)	CQ510 / 1	3171
Not reported Facility Status: CLOSED Case Number: 200806521	131 SUMMITT STREET	NNE 0 - 1/8 (0.094 mi.)	512 / 1	3172
Not reported Facility Status: CLOSED Case Number: 200701347	3495 MAIN ST	E 0 - 1/8 (0.094 mi.)	CS514 / 1	3174
Not reported Facility Status: Closed Case Number: 200401208	189 VINCELLETTE STRE	W 0 - 1/8 (0.095 mi.)	CO516 / 1	3176
Not reported Case Number: 6640	HAWLEY AVE/EZRA ST	SE 0 - 1/8 (0.095 mi.)	CN519 / 1	3178
Not reported	205 FAIRVIEW AVE.	NNW 0 - 1/8 (0.098 mi.)	CK528 / 1	3380

Facility Status: Closed Case Number: 200207245				
Not reported Facility Status: closed Case Number: 9603911	37 KAECHELE PLACE	NW 0 - 1/8 (0.098 mi.)	530 / 1	3382
Not reported Facility Status: Closed Case Number: 200207415	156 SAVOY ST	ENE 0 - 1/8 (0.100 mi.)	CD532 / 1	3385
Not reported Facility Status: CLOSED Case Number: 200703100	460 SALEM STREET	ENE 0 - 1/8 (0.101 mi.)	BX533 / 1	3386
Not reported Facility Status: CLOSED Case Number: 201303649	210 CLEVELAND AVE	SE 0 - 1/8 (0.104 mi.)	CV539 / 1	3391
PEREIRA RESIDENCE Facility Status: Closed Case Number: 9805153	***691 FAIRVIEW AVENUE***	***SW 0 - 1/8 (0.105 mi.)***	***CP541 / 1***	***3392***
Not reported Facility Status: Closed Case Number: 200305699	35 ROBIN STREET	WSW 0 - 1/8 (0.105 mi.)	CX545 / 1	3398
Not reported Facility Status: Closed Case Number: 200307487	306 CLEVLAND AVE	SSE 0 - 1/8 (0.107 mi.)	CF546 / 1	3399
Not reported Facility Status: closed Case Number: 200404301	14 HARLEM AVENUE	NNW 0 - 1/8 (0.107 mi.)	CY547 / 1	3400
Not reported Facility Status: Closed Case Number: 200403360	14 HARLEM AVE.	NNW 0 - 1/8 (0.107 mi.)	CY548 / 1	3402
Not reported Facility Status: Closed Case Number: 200205758	820 LINDLEY ST	SSE 0 - 1/8 (0.107 mi.)	CM549 / 1	3403
Not reported Facility Status: Closed Case Number: 200002099	134-136 MARION STREE	S 0 - 1/8 (0.108 mi.)	CA550 / 1	3404
LEONARD RUTKOWSKY Facility Status: CLOSED Case Number: 9706196	***168 MARION STREET***	***SSE 0 - 1/8 (0.109 mi.)***	***DA553 / 1***	***3407***
Not reported Facility Status: Closed Case Number: 200403159	819 LINDELY ST.	SSE 0 - 1/8 (0.109 mi.)	CM557 / 1	3421
Not reported Facility Status: Closed Case Number: 200306278	86 MARION ST	SSE 0 - 1/8 (0.109 mi.)	DB560 / 1	3423
Not reported Facility Status: CLOSED Case Number: 9700485	186-188 MARION ST	SSE 0 - 1/8 (0.109 mi.)	DA561 / 1	3424
Not reported Facility Status: CLOSED	4 EVERETT STREET	W 0 - 1/8 (0.109 mi.)	CG564 / 1	3427

Case Number: 201002245				
Not reported Facility Status: CLOSED Case Number: 200603536 Case Number: 200604229	370 HARLEM AVE	WNW 0 - 1/8 (0.110 mi.)	DD568 / 1	3432
Not reported Facility Status: Closed Case Number: 200302143	121 THORME ST	ESE 0 - 1/8 (0.111 mi.)	DC570 / 1	3435
Not reported Facility Status: Closed Case Number: 200503829	3461 MAIN STREET	E 0 - 1/8 (0.112 mi.)	DC577 / 1	3440
Not reported Facility Status: Closed Case Number: 200408884	175 HAWLEY AVE	SSE 0 - 1/8 (0.113 mi.)	DF578 / 1	3441
Not reported Facility Status: CLOSED Case Number: 200606842	4790 MAIN ST	WNW 0 - 1/8 (0.113 mi.)	DG580 / 1	3443
Not reported Facility Status: Closed Case Number: 200407763	64 HARLEM AVE	NNW 0 - 1/8 (0.114 mi.)	582 / 1	3444
Not reported Case Number: 5240	113 WENTWORTH ST	E 0 - 1/8 (0.114 mi.)	583 / 1	3446
CARDIOMED OF CONNECT Facility Status: Closed Case Number: 200308966	***4695 MAIN ST***	***W 0 - 1/8 (0.115 mi.)***	***DI590 / 1***	***3461***
Not reported Case Number: 6296	MAIN ST/BROOKSIDE SH	WSW 0 - 1/8 (0.115 mi.)	DJ591 / 1	3464
Not reported Facility Status: Closed Case Number: 9801595	4699 MAIN STREET	W 0 - 1/8 (0.115 mi.)	DI597 / 1	3474
Not reported Facility Status: Closed Case Number: 200205348	83 KEELER AVE	ESE 0 - 1/8 (0.116 mi.)	CQ603 / 1	3484
Not reported Facility Status: CLOSED Case Number: 9700064	CAPITOL & MADISON AV	SE 0 - 1/8 (0.116 mi.)	DK604 / 1	3485
Not reported Facility Status: Closed Case Number: 200506521	1225 CAPITAL AVE.	SSW 0 - 1/8 (0.116 mi.)	CL605 / 1	3486
Not reported Facility Status: Closed Case Number: 200106225	112 OCHSNER PLACE	NW 0 - 1/8 (0.117 mi.)	606 / 1	3487
Not reported Facility Status: Closed Case Number: 200107024 Case Number: 200107030	105 TERRY PLACE	ENE 0 - 1/8 (0.117 mi.)	DL608 / 1	3488
Not reported Facility Status: Closed Case Number: 200205628	3451 MAIN STREET	E 0 - 1/8 (0.118 mi.)	DC609 / 1	3490
Not reported	425 THORNE ST	W 0 - 1/8 (0.118 mi.)	DM619 / 1	3500

Case Number: 3022				
Not reported Case Number: 1609	414 FAIRVIEW AVE	ENE 0 - 1/8 (0.119 mi.)	DN624 / 1	3510
Not reported Facility Status: Closed Case Number: 200305815	472 WESTFIELD AVE	W 0 - 1/8 (0.120 mi.)	DP629 / 1	3514
Not reported Facility Status: CLOSED Case Number: 201401095	640 FRENCH TOWN STRE	SE 0 - 1/8 (0.121 mi.)	631 / 1	3516
Not reported Facility Status: CLOSED Case Number: 200907049	139 ANSON ST.	SE 0 - 1/8 (0.121 mi.)	632 / 1	3517
Not reported Facility Status: CLOSED Case Number: 200706106	724 FAIRVIEW AVE	WSW 0 - 1/8 (0.122 mi.)	DQ634 / 1	3519
Not reported Facility Status: CLOSED Case Number: 201501960	196 FAIRVIEW AVE	NNW 0 - 1/8 (0.123 mi.)	635 / 1	3520
Not reported Case Number: 4325	4531 NO MAIN ST/FINA	NW 0 - 1/8 (0.124 mi.)	CT650 / 1	3611
BROOKSIDE PLAZA Case Number: 3860	***4531-4575 MAIN ST***	***NW 0 - 1/8 (0.124 mi.)***	***CT651 / 1***	***3614***
Not reported Facility Status: CLOSED Case Number: 201600293	25 EVERETT ST	WSW 1/8 - 1/4 (0.126 mi.)	664 / 1	3633
Not reported Case Number: 3077	2105-2131 OLD TOWN R	E 1/8 - 1/4 (0.127 mi.)	668 / 1	3638
Not reported Facility Status: Closed Case Number: 200003552	319 CLEVLAND AVE	S 1/8 - 1/4 (0.127 mi.)	DU672 / 1	3642
Not reported Facility Status: CLOSED Case Number: 200905542	94 TERRY PLACE	E 1/8 - 1/4 (0.127 mi.)	DL673 / 1	3643
SCHNEIDER, EUGENE & Facility Status: Closed Case Number: 9804570	***215 CLEVELAND AVE***	***SE 1/8 - 1/4 (0.128 mi.)***	***CV675 / 1***	***3644***
Not reported Facility Status: Closed Case Number: 200000714	482 WESTFIELD AVE.	W 1/8 - 1/4 (0.129 mi.)	DP684 / 1	3655
Not reported Facility Status: CLOSED Case Number: 201304735	469 EZRA STREET	WNW 1/8 - 1/4 (0.131 mi.)	686 / 1	3657
Not reported Facility Status: closed Case Number: 200009070	372 SUMMIT STREET	WNW 1/8 - 1/4 (0.131 mi.)	DO687 / 1	3658
Not reported Facility Status: Closed Case Number: 200402632	100 SUMMIT	NNE 1/8 - 1/4 (0.132 mi.)	691 / 1	3665
Not reported	71 MARION STREET	SE 1/8 - 1/4 (0.133 mi.)	DB692 / 1	3666

Facility Status: CLOSED Case Number: 201700392				
Not reported Facility Status: CLOSED Case Number: 200605724	169 OAKWOOD ST	N 1/8 - 1/4 (0.133 mi.)	693 / 1	3667
Not reported Facility Status: closed Case Number: 200110921	209 WOODSIDE AVE	ENE 1/8 - 1/4 (0.133 mi.)	CW695 / 1	3670
Not reported Facility Status: CLOSED Case Number: 200902511	396 FAIRVIEW AVENUE	ENE 1/8 - 1/4 (0.134 mi.)	DN696 / 1	3671
CARDILLO Facility Status: Closed Case Number: 9701231	***169 TREMONT AVENUE***	***WNW 1/8 - 1/4 (0.134 mi.)***	***DD698 / 1***	***3675***
Not reported Facility Status: CLOSED Case Number: 9605971	1564 MADISON AVENUE	W 1/8 - 1/4 (0.136 mi.)	DV705 / 1	3694
Not reported Facility Status: OPEN Case Number: 201905134	272 GOLDENROD AVE	WSW 1/8 - 1/4 (0.136 mi.)	DX710 / 1	3698
Not reported Facility Status: Closed Case Number: 200407174	74-76 HIGH RIDGE DRI	WNW 1/8 - 1/4 (0.136 mi.)	DY711 / 1	3699
Not reported Case Number: 4168	74 HIGH RIDGE DR	WNW 1/8 - 1/4 (0.136 mi.)	DY712 / 1	3700
MR. FRANK JIANATASIO Facility Status: Closed Case Number: 9903052	***371 CLARK ST.***	***W 1/8 - 1/4 (0.136 mi.)***	***DZ713 / 1***	***3702***
Not reported Facility Status: Closed Case Number: 200105527	17 CHARRON ST	E 1/8 - 1/4 (0.137 mi.)	EA716 / 1	3707
COCCA Facility Status: Closed Case Number: 200502355	***115 SAVOY STREET***	***ENE 1/8 - 1/4 (0.137 mi.)***	***EB717 / 1***	***3709***
Not reported Case Number: 202002822	66 ROBINS STREET	WSW 1/8 - 1/4 (0.138 mi.)	CX720 / 1	3714
Not reported Facility Status: CLOSED Case Number: 200901140	495 WESTFIELD AVENUE	WSW 1/8 - 1/4 (0.138 mi.)	DP721 / 1	3714
Not reported Facility Status: CLOSED Case Number: 201804260	3470 MAIN STREET	E 1/8 - 1/4 (0.141 mi.)	724 / 1	3718
Not reported Facility Status: CLOSED Case Number: 201401018	218 FRENCHTOWN ROAD	ESE 1/8 - 1/4 (0.143 mi.)	DH726 / 1	3720
UNKNOWN Facility Status: Closed Case Number: 9807678	***140 GURDON STREET***	***SSE 1/8 - 1/4 (0.143 mi.)***	***DE727 / 1***	***3721***
Not reported	155 ANTON ST.	SW 1/8 - 1/4 (0.144 mi.)	DT729 / 1	3726

Facility Status: Closed Case Number: 9908474				
Not reported Facility Status: CLOSED Case Number: 200601897	355 CLEVAND AVE	S 1/8 - 1/4 (0.144 mi.)	DU730 / 1	3727
PEOPLE'S SAVINGS BAN Facility Status: Closed Case Number: 200201675	***790 LINCOLN AVENUE***	***WSW 1/8 - 1/4 (0.146 mi.)***	***EC732 / 1***	***3728***
Not reported Facility Status: Closed Case Number: 200300294	196 WOODSIDE AVE	ENE 1/8 - 1/4 (0.147 mi.)	735 / 1	3733
Not reported Facility Status: Closed Case Number: 200005126	225 LINCOLN AVE	E 1/8 - 1/4 (0.147 mi.)	ED736 / 1	3735
Not reported Facility Status: CLOSED Case Number: 201803483	197 TREEMONT AVE	WNW 1/8 - 1/4 (0.148 mi.)	740 / 1	3737
Not reported Facility Status: Closed Case Number: 200401806	923 MADISON AVE	SE 1/8 - 1/4 (0.148 mi.)	DK741 / 1	3738
Not reported Facility Status: Closed Case Number: 200503530	1229 LINDLEY ST	WNW 1/8 - 1/4 (0.149 mi.)	DR742 / 1	3739
Not reported Facility Status: closed Case Number: 200108502	36 POND STREET	ENE 1/8 - 1/4 (0.149 mi.)	EF744 / 1	3742
Not reported Facility Status: Closed Case Number: 200308919	374 CLARK ST	W 1/8 - 1/4 (0.150 mi.)	DZ745 / 1	3743
Not reported Facility Status: Closed Case Number: 200503336	764 FAIRVIEW AVNUE	WSW 1/8 - 1/4 (0.151 mi.)	DQ750 / 1	3746
Not reported Facility Status: CLOSED Case Number: 200600564	166 OVERLAND AVE	ENE 1/8 - 1/4 (0.152 mi.)	752 / 1	3749
Not reported Case Number: 444	85 ROBIN ST	WSW 1/8 - 1/4 (0.152 mi.)	753 / 1	3750
Not reported Case Number: 4168	BLDG 220	NW 1/8 - 1/4 (0.154 mi.)	DY754 / 1	3751
Not reported Facility Status: Closed Case Number: 200110822	55 BREYER AVENUE	W 1/8 - 1/4 (0.154 mi.)	EH755 / 1	3753
Not reported Facility Status: Closed Case Number: 200004236	271 FRENCHTOWN RD	E 1/8 - 1/4 (0.154 mi.)	756 / 1	3754
Not reported Facility Status: closed Case Number: 200500529	243 GARFIELD AVENUE	E 1/8 - 1/4 (0.154 mi.)	757 / 1	3755
Not reported	162 JACKSON AVE	SE 1/8 - 1/4 (0.155 mi.)	EI758 / 1	3757

Facility Status: CLOSED Case Number: 200606160 Case Number: 201101525				
Not reported Facility Status: CLOSED Case Number: 200902497	509 WESTFIELD AVENUE	WSW 1/8 - 1/4 (0.155 mi.)	EL782 / 1	3775
Not reported Facility Status: CLOSED Case Number: 200702691	299 HIGH RIDGE RD	WNW 1/8 - 1/4 (0.155 mi.)	783 / 1	3776
Not reported Facility Status: CLOSED Case Number: 200804290	312 TESINY AVENUE	ENE 1/8 - 1/4 (0.156 mi.)	EN787 / 1	3780
Not reported Facility Status: Closed Case Number: 200200466	369 CLEVELAND AVE	S 1/8 - 1/4 (0.157 mi.)	788 / 1	3781
COLE Facility Status: closed Case Number: 9805552	***219 JACKSON AVENUE***	***SE 1/8 - 1/4 (0.158 mi.)***	***790 / 1***	***3783***
Not reported Facility Status: Closed Case Number: 200104510	64 WENTWORTH ST.	ENE 1/8 - 1/4 (0.158 mi.)	EO792 / 1	3788
Not reported Facility Status: Closed Case Number: 200100686	64 WENTWORTH STREET	ENE 1/8 - 1/4 (0.158 mi.)	EO793 / 1	3789
RAY VIDA Facility Status: Closed Case Number: 9903383	***450 DEXTER DR.***	***E 1/8 - 1/4 (0.158 mi.)***	***EP795 / 1***	***3791***
Not reported Facility Status: CLOSED Case Number: 200900489	23 OCHSNER PLACE	WNW 1/8 - 1/4 (0.162 mi.)	799 / 1	3797
Not reported Facility Status: closed Case Number: 200007480	284 SALEM STREET	SSE 1/8 - 1/4 (0.163 mi.)	EQ800 / 1	3798
Not reported Case Number: 202101120	276 SALEM ST.	SE 1/8 - 1/4 (0.165 mi.)	DW801 / 1	3799
Not reported Facility Status: Closed Case Number: 200205803	MAIN ST. & OLD TOWN	WNW 1/8 - 1/4 (0.168 mi.)	809 / 1	3805
Not reported Facility Status: CLOSED Case Number: 201505995	170 ANTON STREET	SW 1/8 - 1/4 (0.169 mi.)	810 / 1	3806
Not reported Case Number: 1324	127 CHAMBERLAIN PL	E 1/8 - 1/4 (0.170 mi.)	811 / 1	3807
ST VINCENTS FAMILY H Facility Status: CLOSED Case Number: 201700326	***762 LINDLEY STREET***	***SSE 1/8 - 1/4 (0.170 mi.)***	***EM813 / 1***	***3811***
WOLTCH RESIDENCE Facility Status: CLOSED Case Number: 200804935	***169 WOODSIDE AVENUE***	***NE 1/8 - 1/4 (0.171 mi.)***	***ES814 / 1***	***3813***
Not reported	299 MERRIT STREET	WNW 1/8 - 1/4 (0.172 mi.)	EU817 / 1	3818

Facility Status: CLOSED Case Number: 201102291				
Not reported Facility Status: Closed Case Number: 9906510	74 FLEET STREET	ENE 1/8 - 1/4 (0.172 mi.)	ES818 / 1	3819
Not reported Facility Status: Closed Case Number: 200003662	760 LINDLEY STREET	SSE 1/8 - 1/4 (0.173 mi.)	EM819 / 1	3820
Not reported Facility Status: Closed Case Number: 200300146	65 RIDGEBROOK DR	ESE 1/8 - 1/4 (0.173 mi.)	ER820 / 1	3821
Not reported Case Number: 3645	MERRITT PKWY/FRENCHT	N 1/8 - 1/4 (0.174 mi.)	EV821 / 1	3823
Not reported Facility Status: Closed Case Number: 200303920	FRENCH TOWN RD BY TH	N 1/8 - 1/4 (0.174 mi.)	EV822 / 1	3825
Not reported Facility Status: Closed Case Number: 200305976	RT 15 NORTH/ FRENCHT	N 1/8 - 1/4 (0.174 mi.)	EV823 / 1	3826
Not reported Facility Status: Closed Case Number: 200208045	RT.15 NB & FRENCHTOW	N 1/8 - 1/4 (0.174 mi.)	EV824 / 1	3827
Not reported Facility Status: CLOSED Case Number: 200606971	ROUTE 15 NORTH AT FR	N 1/8 - 1/4 (0.174 mi.)	EV825 / 1	3828
Not reported Facility Status: Closed Case Number: 200400789	RT 15 NORTH AND FREN	N 1/8 - 1/4 (0.174 mi.)	EV826 / 1	3830
Not reported Facility Status: CLOSED Case Number: 200701963	1274 LINDLEY STREET	WNW 1/8 - 1/4 (0.176 mi.)	EW830 / 1	3832
Not reported Facility Status: Closed Case Number: 200204779	106 WEDGEWOOD PLACE	SE 1/8 - 1/4 (0.176 mi.)	EY831 / 1	3834
Not reported Facility Status: Closed Case Number: 200006520	194-196 GARFIELD AVE	E 1/8 - 1/4 (0.177 mi.)	ED833 / 1	3835
Not reported Facility Status: closed Case Number: 200110138	194 GARFIELD AVENUE	E 1/8 - 1/4 (0.177 mi.)	ED835 / 1	3837
Not reported Facility Status: Closed Case Number: 200109774	96 JACKSON AVE	ESE 1/8 - 1/4 (0.177 mi.)	EE836 / 1	3838
Not reported Facility Status: closed Case Number: 200502403	3325 MAIN STREET	ESE 1/8 - 1/4 (0.178 mi.)	EZ837 / 1	3839
Not reported Facility Status: Closed Case Number: 200204258	205 BRETTON STREET	W 1/8 - 1/4 (0.180 mi.)	EH840 / 1	3841
OSWALDO TORRES	***90-92 JACKSON AVE***	***ESE 1/8 - 1/4 (0.181 mi.)***	***EE843 / 1***	***3844***

Facility Status: Closed Case Number: 9907006				
Not reported Facility Status: closed Case Number: 200408430	8-10 HIGH RIDGE DRIV	WNW 1/8 - 1/4 (0.181 mi.)	FB844 / 1	3848
Not reported Facility Status: CLOSED Case Number: 201504710	MADISON TERRACE AND	ENE 1/8 - 1/4 (0.181 mi.)	845 / 1	3850
Not reported Facility Status: Closed Case Number: 200301733	33 TERRY PLACE	ESE 1/8 - 1/4 (0.183 mi.)	846 / 1	3851
GREG DREW / CENTURY Facility Status: closed Facility Status: CLOSED Case Number: 9702632 Case Number: 9702924	***53 WILCOX STREET***	***NNE 1/8 - 1/4 (0.183 mi.)***	***FD848 / 1***	***3852***
Not reported Facility Status: CLOSED Case Number: 201000395	293-295 SALEM ST	SSE 1/8 - 1/4 (0.184 mi.)	EQ852 / 1	3859
Not reported Facility Status: CLOSED Case Number: 200905020	293 SALEM ST	SSE 1/8 - 1/4 (0.184 mi.)	EQ853 / 1	3860
Not reported Facility Status: CLOSED Case Number: 200905941	293-295 SALEM STREET	SSE 1/8 - 1/4 (0.184 mi.)	EQ854 / 1	3861
Not reported Facility Status: CLOSED Case Number: 201108109	900 MADISON AVE	SE 1/8 - 1/4 (0.184 mi.)	FC856 / 1	3863
Not reported Facility Status: closed Case Number: 200000165	262 FEDERAL STREET	ESE 1/8 - 1/4 (0.186 mi.)	FF863 / 1	3868
GEORGE SEPI ,DBA DON Facility Status: CLOSED Case Number: 9700478	***215 SALEM ST 550 UST***	***SSE 1/8 - 1/4 (0.187 mi.)***	***FI867 / 1***	***3871***
Not reported Facility Status: closed Case Number: 200501608	737 CAPITAL AVENUE	ESE 1/8 - 1/4 (0.187 mi.)	FJ868 / 1	3875
Not reported Facility Status: CLOSED Case Number: 200507509	325 SALEM ST	SSE 1/8 - 1/4 (0.187 mi.)	FH870 / 1	3878
Not reported Facility Status: CLOSED Case Number: 201905983	128 POND STREET	NE 1/8 - 1/4 (0.188 mi.)	872 / 1	3880
Not reported Facility Status: CLOSED Case Number: 201504713	300 MERRITT STREET	WSW 1/8 - 1/4 (0.188 mi.)	EU875 / 1	3970
Not reported Facility Status: Closed Case Number: 200009127	90 SALEM ST	ESE 1/8 - 1/4 (0.191 mi.)	876 / 1	3971
Not reported	410 DEXTER DR	E 1/8 - 1/4 (0.191 mi.)	EP882 / 1	3975

Facility Status: CLOSED Case Number: 201601370				
Not reported Facility Status: Closed Case Number: 200306283	3366 MAIN STREET	ESE 1/8 - 1/4 (0.192 mi.)	ET883 / 1	3976
Not reported Facility Status: CLOSED Case Number: 201502321	80 WEDGEWOOD PLACE	SE 1/8 - 1/4 (0.192 mi.)	EY884 / 1	3977
Not reported Facility Status: Closed Case Number: 9800932	RT 111 AT OCHSNER PL	WNW 1/8 - 1/4 (0.192 mi.)	FE885 / 1	3979
Not reported Facility Status: CLOSED Case Number: 200905694	ACROSS FROM 145 HART	SE 1/8 - 1/4 (0.194 mi.)	FM895 / 1	3990
Not reported Facility Status: CLOSED Case Number: 201205250	145 HART STREET	SE 1/8 - 1/4 (0.194 mi.)	FM896 / 1	3991
Not reported Facility Status: Closed Case Number: 200305601	2631 MAIN ST	SSE 1/8 - 1/4 (0.195 mi.)	FI900 / 1	3997
Not reported Facility Status: Closed Case Number: 200500962	321 HARMONY STREET	N 1/8 - 1/4 (0.195 mi.)	901 / 1	3998
Not reported Facility Status: closed Case Number: 200406072	509 BIRMINGHAM STREE	W 1/8 - 1/4 (0.196 mi.)	903 / 1	4000
Not reported Facility Status: Closed Case Number: 200007039	298 MCKINLEY AVE.	SSE 1/8 - 1/4 (0.197 mi.)	FO905 / 1	4001
Not reported Facility Status: Closed Case Number: 200502303	139 WOODSIDE AVE	ENE 1/8 - 1/4 (0.198 mi.)	ES908 / 1	4004
Not reported Facility Status: CLOSED Case Number: 201702877	620 GURDON ST	WNW 1/8 - 1/4 (0.198 mi.)	EW909 / 1	4005
Not reported Facility Status: Closed Case Number: 200207893	66 GURDON ST	SSE 1/8 - 1/4 (0.198 mi.)	FP910 / 1	4006
Not reported Case Number: 5048	256 RUTH ST	WSW 1/8 - 1/4 (0.200 mi.)	FQ911 / 1	4007
Not reported Facility Status: Closed Case Number: 200303050	3354 MAIN STREET	ESE 1/8 - 1/4 (0.200 mi.)	EZ912 / 1	4010
Not reported Facility Status: Closed Case Number: 9702088	HIGHRIDGE&ALEXANDER	NW 1/8 - 1/4 (0.201 mi.)	FB914 / 1	4011
Not reported Facility Status: CLOSED Case Number: 200601659	310 MCKINLEY AVE.	SSE 1/8 - 1/4 (0.202 mi.)	FO916 / 1	4013
Not reported	49-51 WESTFIELD AVEN	NW 1/8 - 1/4 (0.204 mi.)	FR917 / 1	4014

Facility Status: Closed Case Number: 200305379				
Not reported Case Number: 4081	715-717 LINDLEY	SSE 1/8 - 1/4 (0.205 mi.)	FP919 / 1	4016
Not reported Facility Status: CLOSED Case Number: 201200666	2669 OLD TOWN ROAD	W 1/8 - 1/4 (0.205 mi.)	920 / 1	4018
Not reported Facility Status: CLOSED Case Number: 201704984	515 SUMMIT STREET	NNW 1/8 - 1/4 (0.205 mi.)	FS923 / 1	4022
Not reported Facility Status: Closed Case Number: 200108311	334 FRENCHTOWN RD #4	E 1/8 - 1/4 (0.206 mi.)	924 / 1	4023
Not reported Facility Status: CLOSED Case Number: 200806211	255 RUTH STREET	SW 1/8 - 1/4 (0.206 mi.)	FQ926 / 1	4025
Not reported Facility Status: Closed Case Number: 200307182	535 SAVOY STREET	W 1/8 - 1/4 (0.209 mi.)	927 / 1	4026
Not reported Facility Status: CLOSED Case Number: 200607902	ROUTE 15 SOUTH .5 MI	NNE 1/8 - 1/4 (0.209 mi.)	928 / 1	4027
Not reported Facility Status: CLOSED Case Number: 201003897	50 WESTFIELD AVE	ENE 1/8 - 1/4 (0.209 mi.)	FR929 / 1	4029
Not reported Facility Status: OPEN Case Number: 200901219	2613 MAIN STREET, SH	SSE 1/8 - 1/4 (0.209 mi.)	FI940 / 1	4059
Not reported Facility Status: CLOSED Case Number: 200805828	2613 MAIN STREET, GA	SSE 1/8 - 1/4 (0.209 mi.)	FI944 / 1	4062
Not reported Facility Status: Closed Case Number: 200208438	51 BONIE VIEW DR.	WNW 1/8 - 1/4 (0.211 mi.)	952 / 1	4066
Not reported Case Number: 4013	CHOPSEY HILL/SUMMIT/	NE 1/8 - 1/4 (0.212 mi.)	FG953 / 1	4067
Not reported Facility Status: CLOSED Case Number: 201705054	4977 MAIN ST	WNW 1/8 - 1/4 (0.212 mi.)	FE954 / 1	4070
Not reported Facility Status: Closed Case Number: 200003292	2010 OLD TOWN RD	E 1/8 - 1/4 (0.213 mi.)	955 / 1	4071
Not reported Facility Status: CLOSED Case Number: 200900110	45 SALEM STREET	SSE 1/8 - 1/4 (0.214 mi.)	FP956 / 1	4072
Not reported Facility Status: Closed Case Number: 202005571 Case Number: 9800606	140 LINCOLN AVE	ENE 1/8 - 1/4 (0.216 mi.)	FT957 / 1	4073

Case Number: 9800624 Case Number: 9800625				
Not reported Facility Status: CLOSED Case Number: 201102520	156 ALEXANDER AVE	W 1/8 - 1/4 (0.216 mi.)	964 / 1	4079
Not reported Facility Status: Closed Case Number: 200208766	78 - 80 SLAWSON STRE	NE 1/8 - 1/4 (0.218 mi.)	FG965 / 1	4080
Not reported Facility Status: CLOSED Case Number: 200707290	149 HARMONY ST	NW 1/8 - 1/4 (0.218 mi.)	973 / 1	4088
Not reported Facility Status: CLOSED Case Number: 202001210	82 LINCOLN AVENUE UN	SSE 1/8 - 1/4 (0.218 mi.)	FV974 / 1	4089
Not reported Facility Status: CLOSED Case Number: 200601063	287 MCKINLEY AVE	SSE 1/8 - 1/4 (0.220 mi.)	FO977 / 1	4093
Not reported Facility Status: CLOSED Case Number: 201902609	100 WOODSIDE AVENUE	E 1/8 - 1/4 (0.220 mi.)	978 / 1	4094
Not reported Facility Status: Closed Case Number: 200300519	84 LAWN ST	WSW 1/8 - 1/4 (0.220 mi.)	980 / 1	4095
Not reported Facility Status: CLOSED Case Number: 9605013	EMBASSY TOWERS, 26-2	W 1/8 - 1/4 (0.221 mi.)	982 / 1	4098
Not reported Facility Status: CLOSED Case Number: 201504347	366 GOLDEN ROD AVE	WSW 1/8 - 1/4 (0.221 mi.)	983 / 1	4099
Not reported Facility Status: Closed Case Number: 200009242	72 LINCOLN AVE	SSE 1/8 - 1/4 (0.221 mi.)	FV984 / 1	4100

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 09/13/2021 has revealed that there are 8 RCRA NonGen / NLR sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
SHERWIN WILLIAMS CO EPA ID:: CTD049593791	***3741 MAIN ST***	***ENE 0 - 1/8 (0.069 mi.)***	***BU397 / 1***	***2745***
MODERNIZED CLNRS EPA ID:: CTD982715435	4100 MAIN ST	ENE 0 - 1/8 (0.073 mi.)	BH414 / 1	2768
SOUTHERN NEW ENGLAND EPA ID:: CTD980514756	***3668 MAIN ST***	***ENE 0 - 1/8 (0.087 mi.)***	***BV489 / 1***	***3138***
DRY CLEANING STATION	***65A HAWLEY AVE***	***SE 0 - 1/8 (0.114 mi.)***	***CN586 / 1***	***3451***

EPA ID:: CTR000506402				
BROOKSIDE DRY CLEANE EPA ID:: CT5000000505	***4563 MAIN ST***	***NW 0 - 1/8 (0.115 mi.)***	***CT595 / 1***	***3470***
BROOKSIDE DRY CLEANE EPA ID:: CTD981890106	***4533 MAIN ST***	***NW 0 - 1/8 (0.123 mi.)***	***CT639 / 1***	***3533***
CLEANORAMA INC EPA ID:: CTD981067804	***4533 MAIN ST***	***NW 0 - 1/8 (0.123 mi.)***	***CT643 / 1***	***3538***
PRESSURE MOULDED PLA EPA ID:: CTD001167964	***145 HART ST***	***SE 1/8 - 1/4 (0.194 mi.)***	***FM897 / 1***	***3992***

ICIS: Integrated Compliance Information System

A review of the ICIS list, as provided by EDR, and dated 11/18/2016 has revealed that there are 4 ICIS sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
ST VINCENT'S MEDICAL FRS ID:: 110001403295	***2800 MAIN ST***	***ESE 0 - 1/8 (0.020 mi.)***	***AE179 / 1***	***2373***
BUZZY'S GETTY FRS ID:: 110001408183	***4031 MAIN ST***	***NE 0 - 1/8 (0.044 mi.)***	***AS282 / 1***	***2583***
PORTER SERVICE STATI FRS ID:: 110005970299	***7 WAYNE STREET***	***NNE 0 - 1/8 (0.045 mi.)***	***AY294 / 1***	***2590***
PEOPLES REAL ESTATE FRS ID:: 110014429154	***2952 MAIN STREET***	***NNW 0 - 1/8 (0.064 mi.)***	***BR357 / 1***	***2664***

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A review of the FTTS list, as provided by EDR, has revealed that there are 3 FTTS sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
ST. VINCENTS MEDICAL Database: FTTS INSP, Date of Government Version: 04/09/2009	2800 MAIN ST.	ESE 0 - 1/8 (0.020 mi.)	AE156 / 1	2351
UNITED ILLUMINATING Database: FTTS INSP, Date of Government Version: 04/09/2009	***414 FAIRVIEW AVE***	***ENE 0 - 1/8 (0.119 mi.)***	***DN625 / 1***	***3512***
BRIDGEPORT ARCHDIOCE Database: FTTS INSP, Date of Government Version: 04/09/2009	***238 JEWETT AVE***	***WSW 1/8 - 1/4 (0.218 mi.)***	***FU966 / 1***	***4081***

MLTS: Material Licensing Tracking System

A review of the MLTS list, as provided by EDR, and dated 03/08/2021 has revealed that there are 6 MLTS sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
ST. VINCENT'S MEDICA	2800 MAIN STREET	ESE 0 - 1/8 (0.020 mi.)	AE147 / 1	2345

License Number:: 06-00843-03				
BADER, M.D., LEWIS M License Number:: 06-27804-01	4083 MAIN STREET	ENE 0 - 1/8 (0.022 mi.)	AI198 / 1	2433
CARDIOMED OF CONNECT License Number:: 06-31033-01	4695 MAIN STREET, SU	W 0 - 1/8 (0.115 mi.)	DI589 / 1	3460
RUSSO, JR., M.D., RO License Number:: 06-04499-01	4699 MAIN STREET	W 0 - 1/8 (0.115 mi.)	DI601 / 1	3480
RITZER, M. D., THEOD License Number:: 06-23533-01	2660 MAIN STREET	SSE 1/8 - 1/4 (0.155 mi.)	EJ774 / 1	3770
CARDIOLOGY PHYSICIAN License Number:: 06-30769-01	4675 MAIN STREET	W 1/8 - 1/4 (0.179 mi.)	FA839 / 1	3840

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A review of the HIST FTTS list, as provided by EDR, has revealed that there are 3 HIST FTTS sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
ST. VINCENTS MEDICAL Database: HIST FTTS INSP, Date of Government Version: 10/19/2006	2800 MAIN ST.	ESE 0 - 1/8 (0.020 mi.)	AE150 / 1	2348
UNITED ILLUMINATING Database: HIST FTTS INSP, Date of Government Version: 10/19/2006	***414 FAIRVIEW AVE***	***ENE 0 - 1/8 (0.119 mi.)***	***DN625 / 1***	***3512***
BRIDGEPORT ARCHDIOCE Database: HIST FTTS INSP, Date of Government Version: 10/19/2006	***238 JEWETT AVE***	***WSW 1/8 - 1/4 (0.218 mi.)***	***FU966 / 1***	***4081***

US AIRS: Aerometric Information Retrieval System Facility Subsystem

A review of the US AIRS list, as provided by EDR, has revealed that there are 7 US AIRS sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
ST VINCENT'S MEDICAL Database: US AIRS (AFS), Date of Government Version: 10/12/2016 EPA plant ID:: 110001403295	***2800 MAIN ST***	***ESE 0 - 1/8 (0.020 mi.)***	***AE179 / 1***	***2373***
READ SCHOOL Database: US AIRS MINOR, Date of Government Version: 10/12/2016 EPA plant ID:: 110001403035	***130 EZRA ST***	***W 0 - 1/8 (0.043 mi.)***	***AT265 / 1***	***2561***
BUZZY'S GETTY Database: US AIRS MINOR, Date of Government Version: 10/12/2016	***4031 MAIN ST***	***NE 0 - 1/8 (0.044 mi.)***	***AS282 / 1***	***2583***
PORTER SERVICE STATI Database: US AIRS MINOR, Date of Government Version: 10/12/2016 EPA plant ID:: 110005970299	***7 WAYNE STREET***	***NNE 0 - 1/8 (0.045 mi.)***	***AY294 / 1***	***2590***
SOUTHERN NEW ENGLAND Database: US AIRS MINOR, Date of Government Version: 10/12/2016 EPA plant ID:: 110001732322	***3668 MAIN ST***	***ENE 0 - 1/8 (0.087 mi.)***	***BV489 / 1***	***3138***
BROOKSIDE DRY CLEANE Database: US AIRS MINOR, Date of Government Version: 10/12/2016	***4563 MAIN ST***	***NW 0 - 1/8 (0.115 mi.)***	***CT595 / 1***	***3470***

EPA plant ID:: 110001404962

BLACKHAM SCHOOL ***425 THORME ST*** ***W 0 - 1/8 (0.118 mi.)*** ***DM614 / 1*** ***3495***
Database: US AIRS MINOR, Date of Government Version: 10/12/2016
EPA plant ID:: 110001728827

US MINES: Mines Master Index File

A review of the US MINES list, as provided by EDR, has revealed that there is 1 US MINES site within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
FROST CONSTRUCTION C Database: US MINES, Date of Government Version: 05/03/2021 Mine ID:: 4801134		SE 0 - 1/8 (0.077 mi.)	BY460 / 1	3100

FINDS: Facility Index System/Facility Registry System

A review of the FINDS list, as provided by EDR, and dated 05/05/2021 has revealed that there are 69 FINDS sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
CONTINENTAL CLEANERS Registry ID:: 110002479407	***1183 MADISON AVE***	***E 0 - 1/8 (0.013 mi.)***	***AA95 / 1***	***470***
MADISON CLEANERS Registry ID:: 110002486701	***1165 MADISON AVE***	***ENE 0 - 1/8 (0.018 mi.)***	***AA109 / 1***	***492***
ST VINCENT'S MEDICAL Registry ID:: 110001403295	***2800 MAIN ST***	***ESE 0 - 1/8 (0.020 mi.)***	***AE179 / 1***	***2373***
CARPENTER CHIROPRACT Registry ID:: 110038322570	4444 MAIN ST	N 0 - 1/8 (0.021 mi.)	C186 / 1	2406
CUMBERLAND GULF #609 Registry ID:: 110044158817	4464 MAIN STREET	NW 0 - 1/8 (0.022 mi.)	C191 / 1	2420
WALGREENS #7522 Registry ID:: 110044340264	***4083 MAIN ST***	***ENE 0 - 1/8 (0.022 mi.)***	***AI199 / 1***	***2434***
MEDICAL CENTER Registry ID:: 110041572955	UNKNOWN	SSE 0 - 1/8 (0.029 mi.)	AJ213 / 1	2451
POSH CARWASH AND DET Registry ID:: 110044342002	30 PERRONETTE DR	SW 0 - 1/8 (0.033 mi.)	E228 / 1	2466
MADISON SCHOOL Registry ID:: 110022657588	376 WAYNE STREET	ENE 0 - 1/8 (0.034 mi.)	AO232 / 1	2468
GRAND GARAGE Registry ID:: 110030421167	1041 MADISON AVE	ESE 0 - 1/8 (0.038 mi.)	AD248 / 1	2495
SUNOCO/ MADISON FOOD Registry ID:: 110030388186	1210 MADISON AVE	NE 0 - 1/8 (0.041 mi.)	AA254 / 1	2528
ROY'S SERVICE CENTER Registry ID:: 110030411800	4063 MAIN ST	ENE 0 - 1/8 (0.042 mi.)	AS258 / 1	2551
SUNOCO SERVICE STA	***4063 MAIN ST***	***ENE 0 - 1/8 (0.042 mi.)***	***AS261 / 1***	***2555***

Registry ID:: 110003007362				
READ SCHOOL Registry ID:: 110001403035	***130 EZRA ST***	***W 0 - 1/8 (0.043 mi.)***	***AT265 / 1***	***2561***
VALVOLINE INSTANT OI Registry ID:: 110044350074	4160 MAIN ST	SE 0 - 1/8 (0.044 mi.)	AW275 / 1	2576
BUZZ'S ENTERPRISES, Registry ID:: 110030424388 Registry ID:: 110001408183	***4031 MAIN ST***	***NE 0 - 1/8 (0.044 mi.)***	***AS278 / 1***	***2577***
BEREKET CITGO Registry ID:: 110064696707	4031 MAIN ST	NE 0 - 1/8 (0.044 mi.)	AS281 / 1	2583
FIVE CORNER AUTO SAL Registry ID:: 110030349834	7 WAYNE ST	NNE 0 - 1/8 (0.045 mi.)	AY293 / 1	2589
PORTER SERVICE STATI Registry ID:: 110005970299	***7 WAYNE STREET***	***NNE 0 - 1/8 (0.045 mi.)***	***AY294 / 1***	***2590***
BEREKET CITGO Registry ID:: 110038323864	4045 MAIN ST	NE 0 - 1/8 (0.049 mi.)	AS306 / 1	2609
RENTAL PROPERTY - MA Registry ID:: 110046295120	6 MANHATTAN AVENUE	NNW 0 - 1/8 (0.052 mi.)	AU318 / 1	2624
SUPERSHINE AUTO DETA Registry ID:: 110044340736	418 GARFIELD AVE	SE 0 - 1/8 (0.054 mi.)	AL328 / 1	2633
BROOKSIDE CENTER Registry ID:: 110044356595	4485 MAIN ST	NW 0 - 1/8 (0.058 mi.)	BJ335 / 1	2639
PEOPLES REAL ESTATE Registry ID:: 110014429154	***2952 MAIN STREET***	***NNW 0 - 1/8 (0.064 mi.)***	***BR357 / 1***	***2664***
CHILDREN'S DENTAL AS Registry ID:: 110069713769	3715 MAIN ST	ENE 0 - 1/8 (0.067 mi.)	BU368 / 1	2677
MOBIL S/S #HEQ R/S # Registry ID:: 110030367975	3691 MAIN ST	NE 0 - 1/8 (0.069 mi.)	BU383 / 1	2695
MOBIL STATION NO. 01 Registry ID:: 110069318045	3691 MAIN ST	NE 0 - 1/8 (0.069 mi.)	BU389 / 1	2709
MOBIL OIL CORP SERV Registry ID:: 110002491018	***3691 MAIN ST***	***NE 0 - 1/8 (0.069 mi.)***	***BU391 / 1***	***2711***
SHERWIN WILLIAMS CO Registry ID:: 110003015308	***3741 MAIN ST***	***ENE 0 - 1/8 (0.069 mi.)***	***BU397 / 1***	***2745***
ALL CAR SERVICE & RE Registry ID:: 110044164800	4154 MAIN ST.	SE 0 - 1/8 (0.071 mi.)	AW402 / 1	2753
MODERNIZED CLNRS Registry ID:: 110046255351	***4100 MAIN ST***	***ENE 0 - 1/8 (0.073 mi.)***	***BH417 / 1***	***2773***
MAIN FREEDOM FUELS Registry ID:: 110030425699	3956 MAIN ST	E 0 - 1/8 (0.074 mi.)	CB427 / 1	2976
3800 MAIN Registry ID:: 110044156267	3800 MAIN ST.	ENE 0 - 1/8 (0.080 mi.)	CI467 / 1	3105
LAKE FOREST Registry ID:: 110044207587	100 FRENCHTOWN RD	NE 0 - 1/8 (0.084 mi.)	477 / 1	3124
SO NEW ENGLAND TELEP Registry ID:: 110001732322	***3668 MAIN STREET***	***ENE 0 - 1/8 (0.087 mi.)***	***BV491 / 1***	***3142***
NORTH BRIDGEPORT CEN	3668 MAIN ST	ENE 0 - 1/8 (0.087 mi.)	BV494 / 1	3155

Registry ID:: 110030421363				
COLLUCCI LEAD ABATEM Registry ID:: 110069993768	47 HARLEM AVENUE	NNW 0 - 1/8 (0.088 mi.)	BN496 / 1	3156
CONNECTICUT HEART & Registry ID:: 110070056943	2979 MAIN ST	NW 0 - 1/8 (0.092 mi.)	CR511 / 1	3172
CVS PHARMACY 2143 Registry ID:: 110035786165	***3710 MAIN ST***	***ENE 0 - 1/8 (0.096 mi.)***	***BU524 / 1***	***3190***
2992 MAIN ST Registry ID:: 110070131197	2992 MAIN ST	NNW 0 - 1/8 (0.105 mi.)	CR544 / 1	3398
PAULS SERVICE CENTER Registry ID:: 110030362916	819 LINDLEY ST	SSE 0 - 1/8 (0.109 mi.)	CM558 / 1	3423
DRY CLEANING STATION Registry ID:: 110043667038	***65A HAWLEY AVE***	***SE 0 - 1/8 (0.114 mi.)***	***CN584 / 1***	***3448***
BLACKHAM SCHOOL Registry ID:: 110001728827	***425 THORME ST***	***W 0 - 1/8 (0.118 mi.)***	***DM614 / 1***	***3495***
MXI ENV HHHWC Registry ID:: 110070431362	***425 THORME ST***	***W 0 - 1/8 (0.118 mi.)***	***DM622 / 1***	***3504***
UNITED ILLUMINATING Registry ID:: 110011761780	414 FAIRVIEW AVE	ENE 0 - 1/8 (0.119 mi.)	DN626 / 1	3513
ORTHOCARE SPECIALIST Registry ID:: 110069316029	4747 MAIN ST	W 0 - 1/8 (0.123 mi.)	DG636 / 1	3521
BROOKSIDE DRY CLEANE Registry ID:: 110001404962	***4533 MAIN ST***	***NW 0 - 1/8 (0.123 mi.)***	***CT640 / 1***	***3536***
CLINISANITAS PC Registry ID:: 110070056636	4543 MAIN ST	NW 0 - 1/8 (0.124 mi.)	CT646 / 1	3604
BROOKSIDE PLAZA Registry ID:: 110044338801	4531-4575 MAIN ST	NW 0 - 1/8 (0.124 mi.)	CT656 / 1	3620
PETCO #3778 Registry ID:: 110070261369	***4559 MAIN ST***	***WSW 1/8 - 1/4 (0.126 mi.)***	***DJ663 / 1***	***3633***
WILLIAM MCPADDEN JR. Registry ID:: 110069405156	135 ANTON ST	SW 1/8 - 1/4 (0.127 mi.)	DT671 / 1	3641
RENTAL PROPERTY - SO Registry ID:: 110046319220	919-921 CAPITOL AVEN	SE 1/8 - 1/4 (0.128 mi.)	DS676 / 1	3649
BROOKWAY CENTER Registry ID:: 110044356586	4553 MAIN ST	SW 1/8 - 1/4 (0.128 mi.)	DJ677 / 1	3649
DAVES AUTO SALES AND Registry ID:: 110030371336	1554 MADISON AVE	W 1/8 - 1/4 (0.129 mi.)	DV681 / 1	3653
FRIENDLY SERVICE #25 Registry ID:: 110030402400	941 MADISON AVE	SE 1/8 - 1/4 (0.132 mi.)	DK688 / 1	3659
SSM BUILDERS LLC Registry ID:: 110059713868	759 LINDLEY STREET -	SSE 1/8 - 1/4 (0.156 mi.)	EM786 / 1	3780
DOMENIC MONACO Registry ID:: 110030316147	16 GRENELLE ST	E 1/8 - 1/4 (0.167 mi.)	EA806 / 1	3802
KEY LINCOLN MERCURY Registry ID:: 110044344956	LINDLEY AVE	WNW 1/8 - 1/4 (0.175 mi.)	EW828 / 1	3831
CARDIOLOGY PHYSICIAN	4675 MAIN ST	W 1/8 - 1/4 (0.179 mi.)	FA838 / 1	3840

Registry ID:: 110064472850				
GREEN GARDEN REALTY Registry ID:: 110024266257	4942 MAIN ST	WNW 1/8 - 1/4 (0.184 mi.)	FE855 / 1	3862
ALEXANDERS TUXEDOS Registry ID:: 110003014719	***3079 MAIN ST***	***NW 1/8 - 1/4 (0.188 mi.)***	***FL874 / 1***	***3881***
BRIDGEPORT FIRE STAT Registry ID:: 110030401713	265 BEECHMONT AVE	E 1/8 - 1/4 (0.191 mi.)	EX879 / 1	3974
COLLUCCI LEAD ABATEM Registry ID:: 110062632450	735 CAPITOL AVENUE -	ESE 1/8 - 1/4 (0.191 mi.)	FJ880 / 1	3974
BRIDGEPORT LEARNING Registry ID:: 110055167625 Registry ID:: 110030392288	280 TESINY AVE	ENE 1/8 - 1/4 (0.192 mi.)	EN888 / 1	3985
PRESSURE MOULDED PLA Registry ID:: 110003009039	***145 HART ST***	***SE 1/8 - 1/4 (0.194 mi.)***	***FM897 / 1***	***3992***
CARL F. DELUCIA Registry ID:: 110069403960	3100 MAIN ST	NNW 1/8 - 1/4 (0.205 mi.)	FS921 / 1	4019
SHELL SERVICE STATIO Registry ID:: 110030402516	2613 MAIN ST	SSE 1/8 - 1/4 (0.209 mi.)	FI932 / 1	4031
INNER-CITY FOUNDATIO Registry ID:: 110022647126	238 JEWETT AVE	WSW 1/8 - 1/4 (0.218 mi.)	FU969 / 1	4086
CATHOLIC CENTER Registry ID:: 110030424306	238 JEWETT AVE	WSW 1/8 - 1/4 (0.218 mi.)	FU970 / 1	4086

ECHO: Enforcement & Compliance History Information

A review of the ECHO list, as provided by EDR, and dated 06/26/2021 has revealed that there are 20 ECHO sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
CONTINENTAL CLEANERS Registry ID: 110002479407	***1183 MADISON AVE***	***E 0 - 1/8 (0.013 mi.)***	***AA95 / 1***	***470***
MADISON CLEANERS Registry ID: 110002486701	***1165 MADISON AVE***	***ENE 0 - 1/8 (0.018 mi.)***	***AA109 / 1***	***492***
ST VINCENTS MEDICAL Registry ID: 110001403295	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE158 / 1	2353
WALGREENS #7522 Registry ID: 110044340264	***4083 MAIN ST***	***ENE 0 - 1/8 (0.022 mi.)***	***AI199 / 1***	***2434***
SUNOCO SERVICE STA Registry ID: 110003007362	***4063 MAIN ST***	***ENE 0 - 1/8 (0.042 mi.)***	***AS261 / 1***	***2555***
READ SCHOOL Registry ID: 110001403035	***130 EZRA ST***	***W 0 - 1/8 (0.043 mi.)***	***AT265 / 1***	***2561***
BUZZ'S ENTERPRISES, Registry ID: 110001408183	***4031 MAIN ST***	***NE 0 - 1/8 (0.044 mi.)***	***AS278 / 1***	***2577***
PORTER SERVICE STATI Registry ID: 110005970299	***7 WAYNE STREET***	***NNE 0 - 1/8 (0.045 mi.)***	***AY294 / 1***	***2590***
MOBIL OIL CORP SERV	***3691 MAIN ST***	***NE 0 - 1/8 (0.069 mi.)***	***BU391 / 1***	***2711***

Registry ID: 110002491018				
SHERWIN WILLIAMS CO	***3741 MAIN ST***	***ENE 0 - 1/8 (0.069 mi.)***	***BU397 / 1***	***2745***
Registry ID: 110003015308				
MODERNIZED CLNRS	***4100 MAIN ST***	***ENE 0 - 1/8 (0.073 mi.)***	***BH417 / 1***	***2773***
Registry ID: 110046255351				
SO NEW ENGLAND TELEP	***3668 MAIN STREET***	***ENE 0 - 1/8 (0.087 mi.)***	***BV491 / 1***	***3142***
Registry ID: 110001732322				
CVS PHARMACY 2143	***3710 MAIN ST***	***ENE 0 - 1/8 (0.096 mi.)***	***BU524 / 1***	***3190***
Registry ID: 110035786165				
DRY CLEANING STATION	***65A HAWLEY AVE***	***SE 0 - 1/8 (0.114 mi.)***	***CN584 / 1***	***3448***
Registry ID: 110043667038				
BLACKHAM SCHOOL	***425 THORME ST***	***W 0 - 1/8 (0.118 mi.)***	***DM614 / 1***	***3495***
Registry ID: 110001728827				
MXI ENV HHHWC	***425 THORME ST***	***W 0 - 1/8 (0.118 mi.)***	***DM622 / 1***	***3504***
Registry ID: 110070431362				
BROOKSIDE DRY CLEANE	***4533 MAIN ST***	***NW 0 - 1/8 (0.123 mi.)***	***CT640 / 1***	***3536***
Registry ID: 110001404962				
PETCO #3778	***4559 MAIN ST***	***WSW 1/8 - 1/4 (0.126 mi.)***	***DJ663 / 1***	***3633***
Registry ID: 110070261369				
ALEXANDERS TUXEDOS	***3079 MAIN ST***	***NW 1/8 - 1/4 (0.188 mi.)***	***FL874 / 1***	***3881***
Registry ID: 110003014719				
PRESSURE MOULDED PLA	***145 HART ST***	***SE 1/8 - 1/4 (0.194 mi.)***	***FM897 / 1***	***3992***
Registry ID: 110003009039				

CT AIRS: Permitted Air Sources Listing

A review of the CT AIRS list, as provided by EDR, and dated 05/07/2021 has revealed that there are 6 CT AIRS sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
ST. VINCENT'S MEDICA	***2800 MAIN ST***	***ESE 0 - 1/8 (0.020 mi.)***	***AE128 / 1***	***2264***
OBS: 147				
READ SCHOOL	***130 EZRA ST***	***W 0 - 1/8 (0.043 mi.)***	***AT267 / 1***	***2563***
BLACKHAM SCHOOL, SOU	***425 THORME ST***	***W 0 - 1/8 (0.118 mi.)***	***DM623 / 1***	***3505***
CLEAN - O - RAMA, IN	4533 MAIN ST	NW 0 - 1/8 (0.123 mi.)	CT637 / 1	3521
ALEXANDERS TUXEDOS	***3079 MAIN ST***	***NW 1/8 - 1/4 (0.188 mi.)***	***FL874 / 1***	***3881***
BRIDGEPORT CITY OF	***280 TESINY AVE***	***ENE 1/8 - 1/4 (0.192 mi.)***	***EN887 / 1***	***3980***

CT ASBESTOS: Asbestos Notification Listing

A review of the CT ASBESTOS list, as provided by EDR, and dated 02/28/2021 has revealed that there are 232 CT ASBESTOS sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
GAUVIN	442 AMSTERDAM AVE	W 0 - 1/8 (0.011 mi.)	K86 / 1	376
COMMUNITY WORKS LLC	69 FERN ST	E 0 - 1/8 (0.012 mi.)	I89 / 1	378
ANDERA WHITE	460 AMSTERDAM AVENUE	W 0 - 1/8 (0.014 mi.)	K100 / 1	481
PRIMROSE CONSTRUCTIO	1089 MADISON AVE	ENE 0 - 1/8 (0.018 mi.)	AD104 / 1	487
LAURIE POSNER	185 MANHATTAN AVE	E 0 - 1/8 (0.018 mi.)	T113 / 1	676

EXECUTIVE SUMMARY

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
ST VINCENTS MED CTR	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE116 / 1	679
ST VINCENT'S HOSPITA	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE117 / 1	680
ST. VINCENT'S MEDICA	***2800 MAIN ST***	***ESE 0 - 1/8 (0.020 mi.)***	***AE118 / 1***	***680***
ST VINCENT MEDICAL C	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE119 / 1	682
ST VINCENTS MEDICAL	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE123 / 1	2261
SAINT VINCENT'S MEDI	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE124 / 1	2261
ST VINCENT MED CTR	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE125 / 1	2262
ST VINCENTS HOSPITAL	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE126 / 1	2263
ST VINCENT'S MEDICAL	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE127 / 1	2263
ST. VINCENT'S MEDICA	***2800 MAIN ST***	***ESE 0 - 1/8 (0.020 mi.)***	***AE128 / 1***	***2264***
ST VINCENTS MED CTR	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE129 / 1	2313
ST. VINCENT'S MEDICA	2800 MAIN STREET	ESE 0 - 1/8 (0.020 mi.)	AE130 / 1	2314
ST VINCENT'S MEDICAL	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE131 / 1	2314
ST. VINCENT'S HOSPIT	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE132 / 1	2315
ST VINCENTS MED CTR	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE133 / 1	2315
ST VINCENTS MEDICAL	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE135 / 1	2321
ST. VINCENTS HOSPITA	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE136 / 1	2321
ST. VINCENTS HOSPITA	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE138 / 1	2323
ST. VINCENT'S MEDICA	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE139 / 1	2324
ST. VINCENT'S MEDICA	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE140 / 1	2325
ST VINCENT'S MEDICAL	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE142 / 1	2342
ST VINCENT'S HOSPITA	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE144 / 1	2344
SST VINCENT 'S MEDIC	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE148 / 1	2346
ST. VINCENT'S MEDICA	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE149 / 1	2347
ST. VINCENT MEDICAL	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE151 / 1	2348
ST VINCENT'S MEDICAL	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE152 / 1	2349
ST VINCENT'S MEDICAL	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE153 / 1	2349
ST VINCENTS MED CTR	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE154 / 1	2350
ST. VINCENTS MEDICAL	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE155 / 1	2350
ST. VINCENT'S MEDICA	***2800 MAIN ST***	***ESE 0 - 1/8 (0.020 mi.)***	***AE157 / 1***	***2351***
ST VINCENT'S MEDICAL	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE159 / 1	2353
ST VINCENT'S MEDICAL	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE161 / 1	2355
ST VINCENT'S MEDICAL	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE163 / 1	2357
ST VINCENT'S MEDICAL	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE164 / 1	2358
ST. VINCENTS MEDICAL	2800 MAIN ST.	ESE 0 - 1/8 (0.020 mi.)	AE165 / 1	2358
ST VINCENT'S MED CTR	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE166 / 1	2359
ST. VINCENTS MEDICAL	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE167 / 1	2359
ST. VINCENT'S HOSPIT	2800 MAIN STREET	ESE 0 - 1/8 (0.020 mi.)	AE169 / 1	2361
ST VINCENTS MED CTR	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE170 / 1	2363
ST. VINCENT'S MEDICA	2800 MAIN STREET	ESE 0 - 1/8 (0.020 mi.)	AE171 / 1	2363
ST. VINCENT'S HOSPIT	***2800 MAIN ST.***	***ESE 0 - 1/8 (0.020 mi.)***	***AE172 / 1***	***2364***
ST VINCENT'S MEDICAL	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE173 / 1	2368
ST. VINCENT'S MEDICA	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE176 / 1	2371
ST VINCENTS HOSPITAL	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE178 / 1	2373
ST. VINCENT'S MEDICA	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE180 / 1	2399
ESTATE OF CONNIE MAN	173 HARLEM AVE	E 0 - 1/8 (0.020 mi.)	Y181 / 1	2400
ASCENSION HEALTH ALL	2900 MAIN ST	NW 0 - 1/8 (0.021 mi.)	AH188 / 1	2412
MARK INVESTMENT, INC	***4083 MAIN ST***	***ENE 0 - 1/8 (0.022 mi.)***	***AI196 / 1***	***2428***
MARIA ROSADO	176-178 MANHATTAN AV	E 0 - 1/8 (0.025 mi.)	Y206 / 1	2442
WARREN	342 GURDON ST	N 0 - 1/8 (0.031 mi.)	N216 / 1	2453
LESHANE LILLY	439 LINCOLN AVE 441	SE 0 - 1/8 (0.031 mi.)	AL217 / 1	2454
MR MESTER	948 WAYNE ST	WSW 0 - 1/8 (0.034 mi.)	229 / 1	2466
RESIDENCE OF TIMOTHY	147 MANHATTAN AVE	NNW 0 - 1/8 (0.036 mi.)	U237 / 1	2479
RESIDENCE OF TIMOTHY	147 MANHATTAN AVE	NNW 0 - 1/8 (0.036 mi.)	U238 / 1	2479
JEFFREY & DARLENE MA	157 MANHATTAN AVE	NNW 0 - 1/8 (0.036 mi.)	U239 / 1	2480
VINNY KOUMBAROS	533 GARFIELD AVE	ESE 0 - 1/8 (0.037 mi.)	AP241 / 1	2481

EXECUTIVE SUMMARY

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
YOSHIDA	31 SAMPSON ST	NW 0 - 1/8 (0.038 mi.)	AB242 / 1	2482
LEN MAINIERO	200 THORME STREET	ESE 0 - 1/8 (0.038 mi.)	AQ243 / 1	2482
BRIDGEPORT PUBLIC SC	130 EZRA ST	W 0 - 1/8 (0.043 mi.)	AT262 / 1	2558
BRIDGEPORT PUBLIC SC	130 EZRA ST	W 0 - 1/8 (0.043 mi.)	AT263 / 1	2559
BRIDGEPORT BOE	130 EZRA STREET	W 0 - 1/8 (0.043 mi.)	AT266 / 1	2562
READ SCHOOL	***130 EZRA ST***	***W 0 - 1/8 (0.043 mi.)***	***AT267 / 1***	***2563***
MR TUOZZOLI	253 CLARK ST	W 0 - 1/8 (0.045 mi.)	AF287 / 1	2587
JEANETTE BRIGHINDI	345-347 ANSON ST	NNW 0 - 1/8 (0.045 mi.)	AX288 / 1	2588
AMERIDGE CONDOS	13 GLENDALE AVE.	ENE 0 - 1/8 (0.049 mi.)	BB309 / 1	2614
UIL HOLDINGS CORP.	280 KAECHELE PLACE	W 0 - 1/8 (0.051 mi.)	310 / 1	2615
ELENA GRANT	146 MANHATTAN AVE	E 0 - 1/8 (0.051 mi.)	312 / 1	2617
FRANK JOSEPHINE	366 SAVOY STREET	W 0 - 1/8 (0.051 mi.)	BC313 / 1	2617
MARTIN MCGRATH	75 CLARK ST	ESE 0 - 1/8 (0.052 mi.)	BD314 / 1	2618
TANIS	356 ANSON ST	NNW 0 - 1/8 (0.053 mi.)	AX324 / 1	2629
JUDD RYWOLT	2200 OLD TOWN RD	ENE 0 - 1/8 (0.054 mi.)	BI326 / 1	2631
PEOPLES BANK	3987-3991 MAIN ST. &	E 0 - 1/8 (0.057 mi.)	BB332 / 1	2636
MARY DULLIVAN	91 KAECHELE PLACE	SSW 0 - 1/8 (0.060 mi.)	BE341 / 1	2645
AARON & LAURIE CIENI	79 VINCELETTE ST	SW 0 - 1/8 (0.062 mi.)	BF347 / 1	2654
MARCIA AJISEFENNI	170 BURNSFORD AVE	WSW 0 - 1/8 (0.064 mi.)	354 / 1	2661
FRANCKY & MICHELE GU	670 FAIRVIEW AVE	SW 0 - 1/8 (0.066 mi.)	AZ362 / 1	2669
THOMAS MCNEMAR	181 SUMMIT ST	N 0 - 1/8 (0.066 mi.)	364 / 1	2670
WALTER STANLEY	***3715 MAIN ST***	***ENE 0 - 1/8 (0.067 mi.)***	***BU366 / 1***	***2672***
BRIDGEPORT BOE	103 EZRA ST	ESE 0 - 1/8 (0.072 mi.)	AV406 / 1	2762
E SIZENSKY	27 FRENCHTOWN RD	NE 0 - 1/8 (0.072 mi.)	407 / 1	2762
STANLEY LEPORTA	490 SALEM ST	ENE 0 - 1/8 (0.073 mi.)	BX409 / 1	2764
LISA PARSIOL	317- 319 LINCOLN AVE	E 0 - 1/8 (0.073 mi.)	BZ411 / 1	2766
JOSE MARON	72 VINCELETTE ST	SW 0 - 1/8 (0.073 mi.)	BF413 / 1	2767
RICHARD GRAHAM	143 KEELER AVENUE	E 0 - 1/8 (0.074 mi.)	438 / 1	3074
ST. VINCENT'S MEDICA	2754 MAIN ST	SE 0 - 1/8 (0.074 mi.)	CC439 / 1	3075
ST VINCENT'S MEDICAL	2754 MAIN ST	SE 0 - 1/8 (0.074 mi.)	CC440 / 1	3076
ST VINCENT'S MEDICAL	2754 MAIN ST	SE 0 - 1/8 (0.074 mi.)	CC441 / 1	3076
CHIFFON DAVIDSON	65 OLIVER STREET	WSW 0 - 1/8 (0.074 mi.)	442 / 1	3077
ABD LLC	2755 MAIN ST	SSE 0 - 1/8 (0.075 mi.)	CC445 / 1	3082
ABD LLC	2755 MAIN ST	SSE 0 - 1/8 (0.075 mi.)	CC446 / 1	3083
MANUEL BURGOS	589 HAWLEY AVENUE	SSE 0 - 1/8 (0.075 mi.)	447 / 1	3083
MICHAEL ROLLERI	179-183 SAVOY STREET	E 0 - 1/8 (0.075 mi.)	CD449 / 1	3085
DERRICK BURR	64 CHARRON ST	ESE 0 - 1/8 (0.076 mi.)	452 / 1	3089
STEVE SCHULZ	1145 CAPITOL AVE	SSE 0 - 1/8 (0.077 mi.)	CF458 / 1	3098
GLORIA KILMER	479 SALEM ST	ENE 0 - 1/8 (0.078 mi.)	BX461 / 1	3100
FRANCES WASILNAK	184 MERRITT ST	WSW 0 - 1/8 (0.079 mi.)	463 / 1	3102
REX DORSEY	1075 CAPITAL AVE	SSE 0 - 1/8 (0.081 mi.)	BL474 / 1	3120
MIKE LEWIS	***386 ANSON STREET***	***NNW 0 - 1/8 (0.082 mi.)***	***CK475 / 1***	***3121***
VICTOR FERRANTE	2970 MAIN ST	NNW 0 - 1/8 (0.084 mi.)	BR478 / 1	3124
WILLIAMS	2151 OLD TOWN RD	E 0 - 1/8 (0.085 mi.)	480 / 1	3126
SNET	3668 MAIN ST	ENE 0 - 1/8 (0.087 mi.)	BV488 / 1	3138
AT & T CO	3668 MAIN ST	ENE 0 - 1/8 (0.087 mi.)	BV490 / 1	3141
JUANA WOFFARD	47 HARLEM AVE	NNW 0 - 1/8 (0.088 mi.)	BN495 / 1	3155
CITY OF BRIDGEPORT	25 EZRA STREET	SE 0 - 1/8 (0.090 mi.)	CN500 / 1	3161
BRIDGEPORT BOE	25 EZRA ST	SE 0 - 1/8 (0.090 mi.)	CN501 / 1	3162
CITY OF BRIDGEPORT	23 EZRA ST	SE 0 - 1/8 (0.090 mi.)	CN503 / 1	3163
TOM SANTELLA	1185 CAPITOL AVE	S 0 - 1/8 (0.091 mi.)	CL505 / 1	3166
HILDA MONTERROSO	270 LINCOLN AVE	E 0 - 1/8 (0.091 mi.)	507 / 1	3168
MELISSA LEFFLBINE	94 KEELER AVE	ESE 0 - 1/8 (0.092 mi.)	CQ509 / 1	3170
HERCULANO RODRIGUES	31 CORNELL STREET	W 0 - 1/8 (0.094 mi.)	513 / 1	3173
FRANK RIVERA	189 VINCELETTE ST	W 0 - 1/8 (0.095 mi.)	CO515 / 1	3175
AURA MERIDA	302-4 GARFIELD AVE	E 0 - 1/8 (0.095 mi.)	BZ517 / 1	3177

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Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
UNITED INVESTMENTS L	3690 MAIN STREET	ENE 0 - 1/8 (0.095 mi.)	518 / 1	3177
HELENE TRAGIANESE	151 SAVOY ST	E 0 - 1/8 (0.103 mi.)	CD534 / 1	3387
ROBIN WALTON	330 NORLAND AVE	ENE 0 - 1/8 (0.104 mi.)	536 / 1	3389
STEVE WHYTE	234-238 MARION ST	SSE 0 - 1/8 (0.104 mi.)	537 / 1	3389
ACCESS AMERICA	370 TESINY AVE	ENE 0 - 1/8 (0.104 mi.)	538 / 1	3390
ANSO MICHEL	241 WOODSIDE AVE	ENE 0 - 1/8 (0.105 mi.)	CW542 / 1	3397
EQUITY MANAGEMENT CO	45-47 HILLHOUSE AVE	ENE 0 - 1/8 (0.109 mi.)	CZ562 / 1	3425
RIGER DOWELL	1215 CAPITOL AVE	SSW 0 - 1/8 (0.109 mi.)	CL566 / 1	3428
BEN HUYNH	60 KEELER AVE	ESE 0 - 1/8 (0.111 mi.)	CQ569 / 1	3435
V VALENTINO	1234 CAPITOL AVE	SSW 0 - 1/8 (0.111 mi.)	CL571 / 1	3436
ST VINCENT MED CTR	129-131 HAWLEY	SE 0 - 1/8 (0.111 mi.)	DE572 / 1	3437
COSTA AGANLDO	136 MARION ST	S 0 - 1/8 (0.111 mi.)	DA574 / 1	3438
ST VINCENT'S MEDICAL	141 HAWLEY AVE	SSE 0 - 1/8 (0.112 mi.)	DE575 / 1	3439
ST VINCENTS MED CTR	141 HAWLEY AVE	SSE 0 - 1/8 (0.112 mi.)	DE576 / 1	3439
RONALD HESKE	175 HAWLEY AVE	SSE 0 - 1/8 (0.113 mi.)	DF579 / 1	3442
WILLIAM POLANCO	193 FRENCHTOWN RD	ESE 0 - 1/8 (0.113 mi.)	DH581 / 1	3444
CARDIOMED OF CONNECT	***4695 MAIN ST***	***W 0 - 1/8 (0.115 mi.)***	***DI590 / 1***	***3461***
JUDITH DEWAR	183-185 HAWLEY AVE.	SSE 0 - 1/8 (0.115 mi.)	DF592 / 1	3466
DR. ROBERT RUSSO	4699 MAIN ST	W 0 - 1/8 (0.115 mi.)	DI600 / 1	3479
BLACKHAM SCHOOL	425 THORME STREET	W 0 - 1/8 (0.118 mi.)	DM610 / 1	3491
BRIDGEPORT BOE	425 THORME ST	W 0 - 1/8 (0.118 mi.)	DM612 / 1	3494
BRIDGEPORT BOE	425 THORME ST	W 0 - 1/8 (0.118 mi.)	DM613 / 1	3495
BRIDGEPORT BOE	425 THORME ST	W 0 - 1/8 (0.118 mi.)	DM615 / 1	3496
BRIDGEPORT BOE	425 THORME ST	W 0 - 1/8 (0.118 mi.)	DM617 / 1	3499
BRIDGEPORT BOE	425 THORME ST.	W 0 - 1/8 (0.118 mi.)	DM620 / 1	3503
BRIDGEPORT BOE	425 THORME ST	W 0 - 1/8 (0.118 mi.)	DM621 / 1	3504
BLACKHAM SCHOOL, SOU	***425 THORME ST***	***W 0 - 1/8 (0.118 mi.)***	***DM623 / 1***	***3505***
JOSE MENDEZ	1244 CAPITOL AVENUE	SSW 0 - 1/8 (0.119 mi.)	627 / 1	3513
H NEVES	1165 LINDLEY ST	WNW 0 - 1/8 (0.120 mi.)	DO628 / 1	3514
JAMES V. LAVIN	824-825 CAPITOL AVE	ESE 0 - 1/8 (0.120 mi.)	CU630 / 1	3515
446 SAVOY LLC	446 SAVOY ST.	W 0 - 1/8 (0.121 mi.)	633 / 1	3518
YVETTE WRIGHT	1214 LINDLEY ST	WNW 0 - 1/8 (0.124 mi.)	DR645 / 1	3603
BROOKSIDE E & A, LLC	4531 NORTH MAIN ST	NW 0 - 1/8 (0.124 mi.)	CT653 / 1	3618
BROOKSIDE(ETA) LLC	4531 N MAIN ST	NW 0 - 1/8 (0.124 mi.)	CT654 / 1	3619
BROOKSIDE E & A LLC	4531 NORTH MAIN ST	NW 0 - 1/8 (0.124 mi.)	CT655 / 1	3620
JOSE RIVERA	399 FAIRVIEW AVE	ENE 1/8 - 1/4 (0.126 mi.)	DN665 / 1	3634
JOSE RIBIRO	397-399 FAIRVIEW AVE	ENE 1/8 - 1/4 (0.127 mi.)	DN669 / 1	3640
CARLOS PAUL	800-902 LINDLEY STRE	SSE 1/8 - 1/4 (0.127 mi.)	670 / 1	3641
MONTANARO	3490 MAIN ST	E 1/8 - 1/4 (0.129 mi.)	CS679 / 1	3651
ELVITA CLERVEAUX	153-157 MARION ST	SSE 1/8 - 1/4 (0.130 mi.)	DA685 / 1	3656
MR GROSSO	561 BEECHMONT AVE	ENE 1/8 - 1/4 (0.132 mi.)	690 / 1	3665
ANGELA FARINA	45 FRENCHTOWN ROAD	NNE 1/8 - 1/4 (0.133 mi.)	694 / 1	3669
BERNARD PATTERSON	319 CLEVELAND ST	S 1/8 - 1/4 (0.136 mi.)	DU702 / 1	3683
RAE CONTE	51-57 MARION ST	SSE 1/8 - 1/4 (0.136 mi.)	DW703 / 1	3684
WILHELMENIA COLES	66 ROBIN STREET	WSW 1/8 - 1/4 (0.138 mi.)	CX719 / 1	3713
MICHELE ROY	189 TREMONT AVE	WNW 1/8 - 1/4 (0.141 mi.)	DD723 / 1	3717
CT PROPERTIES	218 FRENCHTOWN RD	ESE 1/8 - 1/4 (0.143 mi.)	DH725 / 1	3719
TOM CARR	345 CLEVELAND AVENUE	S 1/8 - 1/4 (0.145 mi.)	DU731 / 1	3728
GABE RUSO	238-240 GARFIELD AVE	E 1/8 - 1/4 (0.148 mi.)	ED738 / 1	3736
CECILE LOBO	278 VINCELLETTE ST	WSW 1/8 - 1/4 (0.148 mi.)	739 / 1	3736
PATRICK LOMBARDI	359 FAIRVIEW AVE	NNW 1/8 - 1/4 (0.150 mi.)	746 / 1	3744
HOUTSANT KWOK	595 WOODSIDE AVE.	WSW 1/8 - 1/4 (0.151 mi.)	EG747 / 1	3745
GEORGE KWOCK	595 WOODSIDE AVE.	WSW 1/8 - 1/4 (0.151 mi.)	EG748 / 1	3745
SEBASTIAN VECCHIONE	60-64 CLEVELAND AVEN	SE 1/8 - 1/4 (0.151 mi.)	DS749 / 1	3746
ST VINCENT'S MEDICAL	2660 MAIN ST	SSE 1/8 - 1/4 (0.155 mi.)	EJ760 / 1	3761
ST. VINCENT'S MEDICA	2660 MAIN ST.	SSE 1/8 - 1/4 (0.155 mi.)	EJ761 / 1	3761

EXECUTIVE SUMMARY

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
ST VINCENT'S HOSPITA	2660 MAIN ST	SSE 1/8 - 1/4 (0.155 mi.)	EJ762 / 1	3762
MAIN STREET MEDICAL	2660 MAIN ST	SSE 1/8 - 1/4 (0.155 mi.)	EJ763 / 1	3763
ST. VINCENTS MEDICAL	2660 MAIN ST.	SSE 1/8 - 1/4 (0.155 mi.)	EJ764 / 1	3763
ST VINCENT'S MEDICAL	2660 MAIN ST	SSE 1/8 - 1/4 (0.155 mi.)	EJ765 / 1	3764
ST VINCENT'S MEDICAL	2660 MAIN ST	SSE 1/8 - 1/4 (0.155 mi.)	EJ766 / 1	3764
ST VINCENT'S MEDICAL	2660 MAIN ST	SSE 1/8 - 1/4 (0.155 mi.)	EJ767 / 1	3765
ST VINCENT"S MEDICAL	2660 MAIN STREET	SSE 1/8 - 1/4 (0.155 mi.)	EJ768 / 1	3766
2660 MAIN ST LLC	2660 MAIN ST	SSE 1/8 - 1/4 (0.155 mi.)	EJ769 / 1	3766
ST. VINCENT'S MEDICA	2660 MAIN ST., 9 SOU	SSE 1/8 - 1/4 (0.155 mi.)	EJ770 / 1	3767
MAIN ST MED CTR PART	2660 MAIN ST	SSE 1/8 - 1/4 (0.155 mi.)	EJ771 / 1	3768
ST VINCENT'S MEDICAL	2660 MAIN ST	SSE 1/8 - 1/4 (0.155 mi.)	EJ772 / 1	3769
ST VINCENT'S MEDICAL	2660 MAIN ST	SSE 1/8 - 1/4 (0.155 mi.)	EJ775 / 1	3771
ST VINCENT'S MEDICAL	2660 MAIN ST	SSE 1/8 - 1/4 (0.155 mi.)	EJ776 / 1	3772
ST VINCENT'S MEDICAL	2660 MAIN ST	SSE 1/8 - 1/4 (0.155 mi.)	EJ777 / 1	3772
MAIN ST MEDICAL CENT	2660 MAIN ST	SSE 1/8 - 1/4 (0.155 mi.)	EJ778 / 1	3773
LUCILLE DEFEO C/O RO	1275 CAPITOL AVENUE	SSW 1/8 - 1/4 (0.155 mi.)	EK780 / 1	3774
JAMES DEFEO	1275 CAPITAL AVE	SSW 1/8 - 1/4 (0.155 mi.)	EK781 / 1	3775
ANN MARIE BROWN	203 RUTH STREET	SW 1/8 - 1/4 (0.156 mi.)	784 / 1	3778
S WESTON	166 JACKSON AVE	SE 1/8 - 1/4 (0.157 mi.)	EI789 / 1	3782
ACT MANAGEMENT CO.	95 ANSON ST	SE 1/8 - 1/4 (0.158 mi.)	791 / 1	3787
GREEN	68 POND ST	NE 1/8 - 1/4 (0.159 mi.)	EF796 / 1	3795
ROY GREEN	68 POND ST	NE 1/8 - 1/4 (0.159 mi.)	EF797 / 1	3796
A MARIE EANNOTTI	7 RIDGEWOOD PL	ENE 1/8 - 1/4 (0.160 mi.)	798 / 1	3796
SANDRO PIZZICAROLA	2649 MAIN ST	SSE 1/8 - 1/4 (0.165 mi.)	EJ802 / 1	3800
JACK SULLIVAN	376 SALEM ST	SSE 1/8 - 1/4 (0.166 mi.)	803 / 1	3801
ERNESTINE BROW	85 RIDGEBROOK DR	ESE 1/8 - 1/4 (0.166 mi.)	ER804 / 1	3801
EAMESTINE BROWN	85 RIDGE BROOK DR	ESE 1/8 - 1/4 (0.166 mi.)	ER805 / 1	3802
STEVE LAGE	260 SALEM ST	SE 1/8 - 1/4 (0.167 mi.)	DW808 / 1	3804
ST VINCENTS HOSPITAL	3400 MAIN ST	E 1/8 - 1/4 (0.172 mi.)	ET816 / 1	3818
PAUL CALI	31 THORME ST	E 1/8 - 1/4 (0.174 mi.)	ET827 / 1	3831
CITY OF BRIDGEPORT	20 THORME STREET	E 1/8 - 1/4 (0.176 mi.)	EX829 / 1	3832
HERNANDER	1648-52 MADISON AVE	SW 1/8 - 1/4 (0.176 mi.)	832 / 1	3835
AER CO	904 MADISON AVE	SE 1/8 - 1/4 (0.183 mi.)	FC847 / 1	3852
GAMBRO HEALTH CARE	900-904 MADISON AVE	SE 1/8 - 1/4 (0.184 mi.)	FC857 / 1	3864
GAMBRO HEALTH CARE	900-904 MADISON AVE	SE 1/8 - 1/4 (0.184 mi.)	FC858 / 1	3864
U S HEALTH CARE DEV	900 MADISON AVE	SE 1/8 - 1/4 (0.184 mi.)	FC859 / 1	3865
U S HEALTHCARE DEV I	900 MADISON AVE	SE 1/8 - 1/4 (0.184 mi.)	FC860 / 1	3866
JEWISH FAMILY SERVIC	2370 PARK AVE	SSW 1/8 - 1/4 (0.184 mi.)	EK861 / 1	3866
ELIZABETH ROSS	30 SUMMIT STREET	NE 1/8 - 1/4 (0.187 mi.)	FG864 / 1	3869
O HERNANDEZ	315 SALEM ST	SSE 1/8 - 1/4 (0.187 mi.)	FH865 / 1	3870
ST. DIMITRIE CHURCH	345 JACKSON AVE.	S 1/8 - 1/4 (0.188 mi.)	FK871 / 1	3879
ANTHONY HERBON	553 WESTFIELD AVE	WSW 1/8 - 1/4 (0.188 mi.)	EL873 / 1	3881
CITY OF BRIDGEPORT	265 BEECHMONT AVENUE	E 1/8 - 1/4 (0.191 mi.)	EX878 / 1	3973
ALBERT PINCIARO C/O	980 LAKESIDE DR	ESE 1/8 - 1/4 (0.191 mi.)	881 / 1	3975
CITY OF BRIDGEPORT-B	280 TESINY AVENUE	ENE 1/8 - 1/4 (0.192 mi.)	EN886 / 1	3980
CITY OF BRIDGEPORT	280 TESINY AVE	ENE 1/8 - 1/4 (0.192 mi.)	EN890 / 1	3987
BRIDGEPORT BOE	280 TESINY AVE	ENE 1/8 - 1/4 (0.192 mi.)	EN891 / 1	3987
MR MARVIN GOLDSMIH	353 JACKSON AVE	S 1/8 - 1/4 (0.193 mi.)	FK892 / 1	3988
MS. SCHROEDER	45 REGENT RD	ENE 1/8 - 1/4 (0.194 mi.)	894 / 1	3989
CAROLE MICHAEL	129 ROBIN STREET	WSW 1/8 - 1/4 (0.196 mi.)	902 / 1	3999
RUG BARN	279 FEDERAL ST	ESE 1/8 - 1/4 (0.197 mi.)	FF906 / 1	4002
CAMILE GOMES	367 JACKSON AVENUE	S 1/8 - 1/4 (0.198 mi.)	FK907 / 1	4003
ANAND HOLDINGS	4950 MAIN ST	WNW 1/8 - 1/4 (0.200 mi.)	FE913 / 1	4011
DAN PORTANOVA	3319 MAIN ST	ESE 1/8 - 1/4 (0.201 mi.)	EZ915 / 1	4013
FELIPE COLON	220 NORLAND AVENUE	NE 1/8 - 1/4 (0.204 mi.)	918 / 1	4015
CATHOLIC CENTER	238 JEWETT AVE	WSW 1/8 - 1/4 (0.218 mi.)	FU971 / 1	4087

EXECUTIVE SUMMARY

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
DIOCESE OF BRIDGEPOR	238 JEWETT AVE	WSW 1/8 - 1/4 (0.218 mi.)	FU972 / 1	4087
N. BURRUANO	469 CLARK STREET	W 1/8 - 1/4 (0.220 mi.)	975 / 1	4090
CALL PETR	100 LINCOLN AVE	SSE 1/8 - 1/4 (0.220 mi.)	FV979 / 1	4095

CT CPCS: Contaminated or Potentially Contaminated Sites

A review of the CT CPCS list, as provided by EDR, and dated 05/06/2021 has revealed that there are 32 CT CPCS sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
ST. VINCENT'S MEDICA	***2800 MAIN ST***	***ESE 0 - 1/8 (0.020 mi.)***	***AE128 / 1***	***2264***
Lust Status: Cleanup Initiated				
PEZZELLA	***55 TREMONT AVE***	***WSW 0 - 1/8 (0.027 mi.)***	***Q211 / 1***	***2445***
Lust Status: LUST Completed (DEP's significant hazard definition)				
CITY OF BRIDGEPORT	***376 WAYNE ST.***	***ENE 0 - 1/8 (0.034 mi.)***	***AO233 / 1***	***2469***
Lust Status: LUST Completed (DEP's significant hazard definition)				
GRAND GARAGE	***1041 MADISON AVE***	***ESE 0 - 1/8 (0.038 mi.)***	***AD247 / 1***	***2485***
Lust Status: LUST Completed (DEP's significant hazard definition)				
MOBIL STATION (PORTE	***7 WAYNE STREET***	***NNE 0 - 1/8 (0.045 mi.)***	***AY296 / 1***	***2598***
Lust Status: LUST Completed (DEP's significant hazard definition)				
ACERO RESIDENCE	***225 ROCTON AVENUE***	***E 0 - 1/8 (0.062 mi.)***	***BO346 / 1***	***2650***
Lust Status: LUST Completed (DEP's significant hazard definition)				
TOM CORBETT RESIDENC	***43 HILLVIEW***	***WNW 0 - 1/8 (0.063 mi.)***	***BQ351 / 1***	***2657***
Lust Status: LUST Completed (DEP's significant hazard definition)				
ISRAEL RUBIN	226 WESTFIELD AVENUE	NE 0 - 1/8 (0.067 mi.)	BP373 / 1	2682
Lust Status: LUST Completed (DEP's significant hazard definition)				
3741 MAIN STREET	3741 MAIN STREET	ENE 0 - 1/8 (0.069 mi.)	BU398 / 1	2750
Lust Status: LUST Completed (DEP's significant hazard definition)				
AMOCO	3956 MAIN STREET	E 0 - 1/8 (0.074 mi.)	CB426 / 1	2976
Lust Status: LUST Completed (DEP's significant hazard definition)				
DR. WEINSTEIN	***2962 MAIN STREET***	***NNW 0 - 1/8 (0.075 mi.)***	***BR443 / 1***	***3077***
Lust Status: LUST Completed (DEP's significant hazard definition)				
WALTER KELL	***77 OCHSNER ST.***	***NW 0 - 1/8 (0.076 mi.)***	***CE454 / 1***	***3090***
Lust Status: LUST Completed (DEP's significant hazard definition)				
CONSUMERS PETROLEUM	***3800 MAIN STREET***	***ENE 0 - 1/8 (0.080 mi.)***	***CI471 / 1***	***3111***
Lust Status: Pending				
FRANK CARRANO	***33 CLARKE STREET***	***E 0 - 1/8 (0.086 mi.)***	***BK483 / 1***	***3130***
Lust Status: LUST Completed (DEP's significant hazard definition)				
PEREIRA RESIDENCE	***691 FAIRVIEW AVENUE***	***SW 0 - 1/8 (0.105 mi.)***	***CP541 / 1***	***3392***
Lust Status: LUST Completed (DEP's significant hazard definition)				
LEONARD RUTKOWSKY	***168 MARION STREET***	***SSE 0 - 1/8 (0.109 mi.)***	***DA553 / 1***	***3407***
Lust Status: Cleanup Initiated				
CLEANORAMA INC	***4533 MAIN ST***	***NW 0 - 1/8 (0.123 mi.)***	***CT643 / 1***	***3538***
CLEAN-O-RAMA	4531-4577 MAIN STREE	NW 0 - 1/8 (0.124 mi.)	CT648 / 1	3607
SCHNEIDER, EUGENE &	***215 CLEVELAND AVE***	***SE 1/8 - 1/4 (0.128 mi.)***	***CV675 / 1***	***3644***
Lust Status: LUST Completed (DEP's significant hazard definition)				
HIGH SCHOOL	***425 THOMAS ST.***	***W 1/8 - 1/4 (0.134 mi.)***	***DM697 / 1***	***3672***

Lust Status: Investigation

CARDILLO	***169 TREMONT AVENUE***	***WNW 1/8 - 1/4 (0.134 mi.)***	***DD698 / 1***	***3675***
Lust Status: LUST Completed (DEP's significant hazard definition)				
CERVERA RESIDENCE	***150 GURDON***	***SSE 1/8 - 1/4 (0.135 mi.)***	***DE700 / 1***	***3680***
Lust Status: LUST Completed (DEP's significant hazard definition)				
MR. FRANK JIANATASIO	***371 CLARK ST.***	***W 1/8 - 1/4 (0.136 mi.)***	***DZ713 / 1***	***3702***
Lust Status: LUST Completed (DEP's significant hazard definition)				
UNKNOWN	***140 GURDON STREET***	***SSE 1/8 - 1/4 (0.143 mi.)***	***DE727 / 1***	***3721***
Lust Status: LUST Completed (DEP's significant hazard definition)				
PEOPLE'S SAVINGS BAN	790 LINCOLN AVENUE	WSW 1/8 - 1/4 (0.146 mi.)	EC733 / 1	3733
Lust Status: Pending				
COLE	***219 JACKSON AVENUE***	***SE 1/8 - 1/4 (0.158 mi.)***	***790 / 1***	***3783***
Lust Status: LUST Completed (DEP's significant hazard definition)				
RAY VIDA	***450 DEXTER DR.***	***E 1/8 - 1/4 (0.158 mi.)***	***EP795 / 1***	***3791***
Lust Status: LUST Completed (DEP's significant hazard definition)				
OSWALDO TORRES	***90-92 JACKSON AVE***	***ESE 1/8 - 1/4 (0.181 mi.)***	***EE843 / 1***	***3844***
Lust Status: LUST Completed (DEP's significant hazard definition)				
GREG DREW / CENTURY	***53 WILCOX STREET***	***NNE 1/8 - 1/4 (0.183 mi.)***	***FD848 / 1***	***3852***
Lust Status: Cleanup Initiated				
Lust Status: LUST Completed (DEP's significant hazard definition)				
GEORGE SEPI ,DBA DON	***215 SALEM ST 550 UST***	***SSE 1/8 - 1/4 (0.187 mi.)***	***FI867 / 1***	***3871***
Lust Status: Cleanup Initiated				
NOVA REALTY	140 LINCOLN AVENUE	ENE 1/8 - 1/4 (0.216 mi.)	FT959 / 1	4077
Lust Status: LUST Completed (DEP's significant hazard definition)				
UNKNOWN	140 LINCOLN AVENUE	ENE 1/8 - 1/4 (0.216 mi.)	FT962 / 1	4078
Lust Status: LUST Completed (DEP's significant hazard definition)				

CT DRYCLEANERS: Drycleaner Facilities

A review of the CT DRYCLEANERS list, as provided by EDR, and dated 07/18/2008 has revealed that there are 2 CT DRYCLEANERS sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
BROOKSIDE DRY CLEANE	***4533 MAIN ST***	***NW 0 - 1/8 (0.123 mi.)***	***CT639 / 1***	***3533***
ALEXANDERS TUXEDOS	***3079 MAIN ST***	***NW 1/8 - 1/4 (0.188 mi.)***	***FL874 / 1***	***3881***

CT ENF: Enforcement Case Listing

A review of the CT ENF list, as provided by EDR, and dated 07/19/2021 has revealed that there are 18 CT ENF sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
ST. VINCENT'S MEDICA	***2800 MAIN ST***	***ESE 0 - 1/8 (0.020 mi.)***	***AE118 / 1***	***680***
Status: Active				
Enforcement Action Id: 15-0035/1501-023-04				
Enforcement Action Id: 015-4199/1301-0624				
ST. VINCENT'S MEDICA	***2800 MAIN ST***	***ESE 0 - 1/8 (0.020 mi.)***	***AE128 / 1***	***2264***

Status: Active
Enforcement Action Id: NVAR16909--12080
Enforcement Action Id: 015-3147/1701-0224
Enforcement Action Id: NVAR17471--14261
Enforcement Action Id: COAR2380--10001
Enforcement Action Id: NOVUST-GB16-0028

ST. VINCENT'S MEDICA	***2800 MAIN ST***	***ESE 0 - 1/8 (0.020 mi.)***	***AE157 / 1***	***2351***
Status: Active Enforcement Action Id: 015-3147/2001-2227 Enforcement Action Id: NOVUST-MC220-0016				
ST. VINCENT'S HOSPIT	***2800 MAIN ST.***	***ESE 0 - 1/8 (0.020 mi.)***	***AE172 / 1***	***2364***
Status: Active Enforcement Action Id: 015-0035/2001-02304				
MAIN STREET SUNOCO	4063 MAIN ST	ENE 0 - 1/8 (0.042 mi.)	AS260 / 1	2553
Status: Active Enforcement Action Id: AORTWSUST 18-029 Enforcement Action Id: NOVUST-MC212-0016 Enforcement Action Id: NOVUST-MC221-0030				
PHILLIP J. DEJESUS D	4131 MAIN ST	ENE 0 - 1/8 (0.053 mi.)	BH325 / 1	2630
Status: Active Enforcement Action Id: 015-3904/1301-0724				
CHILDREN'S DENTAL AS	3715 MAIN ST	ENE 0 - 1/8 (0.067 mi.)	BU367 / 1	2676
Status: Active Enforcement Action Id: 015-5732/1901-1628				
KUCKY	421 HAWLEY AVE	S 0 - 1/8 (0.073 mi.)	CA421 / 1	2972
Enforcement Action Id: NOVWSPST00-062				
MAIN FREEDOM FUELS	***3956 MAIN ST***	***E 0 - 1/8 (0.074 mi.)***	***CB423 / 1***	***2973***
Status: Active Enforcement Action Id: NOVUST-MC218-0003				
MAIN FREEDOM FUELS	***3956 MAIN ST***	***E 0 - 1/8 (0.074 mi.)***	***CB432 / 1***	***3037***
Status: Active Enforcement Action Id: NOVUST-JH14-0131				
NORTH BRIDGEPORT CEN	***3668 MAIN ST***	***ENE 0 - 1/8 (0.087 mi.)***	***BV493 / 1***	***3151***
Status: Active Enforcement Action Id: NOVUST-JH11-0027 Enforcement Action Id: NOVUST-JH13-0088				
2992 MAIN ST	2992 MAIN ST	NNW 0 - 1/8 (0.105 mi.)	CR543 / 1	3397
Status: Active Enforcement Action Id: 015-5221/1901-1628				
CARDIOMED OF CONNECT	***4695 MAIN ST***	***W 0 - 1/8 (0.115 mi.)***	***DI590 / 1***	***3461***
Status: Active Enforcement Action Id: 015-1461/1202-1615 Enforcement Action Id: 0015-1461/1203-1417				
RANDALL H. NEICHIN,	***4699 MAIN ST***	***W 0 - 1/8 (0.115 mi.)***	***DI599 / 1***	***3477***
Status: Active Enforcement Action Id: 015-0329/1801-0528 Enforcement Action Id: 015-1438/1301-0525				
KEN CERRITELLI	***1554 MADISON AVE***	***W 1/8 - 1/4 (0.129 mi.)***	***DV680 / 1***	***3651***
Status: Active Enforcement Action Id: NOVUST-GB16-0031				
INSTALLATION COMPANY	55 HAWLEY AVE	S 1/8 - 1/4 (0.129 mi.)	683 / 1	3654

Enforcement Action Id: NOVWSPST07-101

SHELL SERVICE STATIO	***2613 MAIN ST***	***SSE 1/8 - 1/4 (0.209 mi.)***	***FI947 / 1***	***4064***
Status: Active				
Enforcement Action Id: NOVUST-GB16-0026				
CATHOLIC CENTER	238 JEWETT AVE	WSW 1/8 - 1/4 (0.218 mi.)	FU967 / 1	4082
Status: Active				
Enforcement Action Id: NOVUST-MC219-0044				

CT LEAD: Lead Inspection Database

A review of the CT LEAD list, as provided by EDR, and dated 03/26/2014 has revealed that there are 25 CT LEAD sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
Not reported	284 AMSTERDAM AVE	SW 0 - 1/8 (0.017 mi.)	AC102 / 1	485
Not reported	110 MARCEL ST	SW 0 - 1/8 (0.019 mi.)	115 / 1	678
Not reported	538 GARFIELD AVE	E 0 - 1/8 (0.022 mi.)	X202 / 1	2437
Not reported	50 BURNSFORD AVE	NE 0 - 1/8 (0.032 mi.)	222 / 1	2459
Not reported	126 MORNINGSIDE DR	N 0 - 1/8 (0.044 mi.)	AU272 / 1	2571
Not reported	6 MANHATTAN AVE FL 1	NNW 0 - 1/8 (0.052 mi.)	AU317 / 1	2622
Not reported	380 HAWLEY AVE	SE 0 - 1/8 (0.053 mi.)	BG322 / 1	2627
Not reported	180 GLENDALE AVE	WSW 0 - 1/8 (0.073 mi.)	420 / 1	2970
Not reported	385 HAWLEY AVE	SSE 0 - 1/8 (0.077 mi.)	BG456 / 1	3095
Not reported	1093 CAPITOL AVE	SE 0 - 1/8 (0.079 mi.)	BL462 / 1	3101
Not reported	317 GARFIELD AVE 3RD	ESE 0 - 1/8 (0.099 mi.)	CU531 / 1	3383
Not reported	115 HIGH RIDGE DR	NW 0 - 1/8 (0.104 mi.)	535 / 1	3387
Not reported	409 BIRMINGHAM ST	W 0 - 1/8 (0.124 mi.)	657 / 1	3621
Not reported	921 CAPITOL AVE FL 1	SE 0 - 1/8 (0.125 mi.)	DS661 / 1	3628
Not reported	399 FAIRVIEW AVE FL	ENE 1/8 - 1/4 (0.126 mi.)	DN666 / 1	3635
Not reported	404 FAIRVIEW AVE	ENE 1/8 - 1/4 (0.127 mi.)	DN667 / 1	3636
Not reported	790 CAPITOL AVE	ESE 1/8 - 1/4 (0.140 mi.)	722 / 1	3715
Not reported	115 CLEVELAND AVE	ESE 1/8 - 1/4 (0.149 mi.)	EE743 / 1	3740
Not reported	415 SALEM ST	ENE 1/8 - 1/4 (0.152 mi.)	751 / 1	3748
Not reported	759 LINDLEY STREET	SSE 1/8 - 1/4 (0.156 mi.)	EM785 / 1	3778
Not reported	317 BEECHMONT AVE	E 1/8 - 1/4 (0.181 mi.)	841 / 1	3842
Not reported	885 MADISON AVE 2ND	SE 1/8 - 1/4 (0.185 mi.)	FC862 / 1	3867
Not reported	737 CAPITOL AVE 2ND	ESE 1/8 - 1/4 (0.187 mi.)	FJ869 / 1	3876
Not reported	175 GARFIELD AVE	E 1/8 - 1/4 (0.206 mi.)	925 / 1	4024
Not reported	137 LINCOLN AVE	ENE 1/8 - 1/4 (0.221 mi.)	FT981 / 1	4097

CT MANIFEST: Hazardous Waste Manifest Data

A review of the CT MANIFEST list, as provided by EDR, and dated 03/24/2021 has revealed that there are 61 CT MANIFEST sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
CONTINENTAL CLEANERS	1183 MADISON AVE	E 0 - 1/8 (0.013 mi.)	AA93 / 1	383
EPA Id: CTP000001243				
CONTINENTAL CLEANERS	1183 MADISON AVE	E 0 - 1/8 (0.013 mi.)	AA94 / 1	384
EPA Id: CTD981062391				
MADISON CLEANING	1165 MADISON AVE	ENE 0 - 1/8 (0.018 mi.)	AA105 / 1	488

EPA Id: CTD987868639				
MADISON CLEANERS EPA Id: CTP000005708	1165 MADISON AVE	ENE 0 - 1/8 (0.018 mi.)	AA106 / 1	489
MADISON CLEANERS EPA Id: CTD993868639	1165 MADISON AVE	ENE 0 - 1/8 (0.018 mi.)	AA107 / 1	490
MADISON CLEANERS EPA Id: CTD983868639	***1165 MADISON AVE***	***ENE 0 - 1/8 (0.018 mi.)***	***AA109 / 1***	***492***
MADISON CLEANERS EPA Id: CTP000007719	1165 MADISON AVE	ENE 0 - 1/8 (0.018 mi.)	AA110 / 1	670
ST VINCENT S MEDICAL EPA Id: CTD072147258	2800 MAIN STREET	ESE 0 - 1/8 (0.020 mi.)	AE121 / 1	683
ST VINCENTS MEDICAL EPA Id: CTD07214259 EPA Id: CTD072147259	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE122 / 1	684
ST VINCENTS MEDICAL EPA Id: CTD072947259	2800 MAIN STREET	ESE 0 - 1/8 (0.020 mi.)	AE137 / 1	2322
SAINT VINCENTS MEDIC	2800 MAIN STREET	ESE 0 - 1/8 (0.020 mi.)	AE145 / 1	2345
ST VINCENTS MEDICAL EPA Id: CTD072147253	2800 MAIN STREET	ESE 0 - 1/8 (0.020 mi.)	AE168 / 1	2360
SAINT VINCENT S MEDI EPA Id: CTD072147260	2800 MAIN STREET	ESE 0 - 1/8 (0.020 mi.)	AE174 / 1	2369
SAINT VINCENTS MEDIC EPA Id: CTD0721471259	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE177 / 1	2371
CITY OF DANBURY UNIO EPA Id: CTP000016524	4464 MAIN ST	NW 0 - 1/8 (0.022 mi.)	C192 / 1	2420
CERRITELLI GULF SERV EPA Id: CTP000008537	4464 MAIN ST	NW 0 - 1/8 (0.022 mi.)	C194 / 1	2426
MARK INVESTMENT, INC EPA Id: *CESQG	***4083 MAIN ST***	***ENE 0 - 1/8 (0.022 mi.)***	***AI196 / 1***	***2428***
PEOPLES BANK EPA Id: CTP000028489	25 WOODMONT ST	ENE 0 - 1/8 (0.022 mi.)	G204 / 1	2440
CT DEP EMERG RESP PE EPA Id: CTP000019925	***1128 MADISON AVE***	***ENE 0 - 1/8 (0.035 mi.)***	***AG234 / 1***	***2473***
ST VINCENT & BRIDGEP EPA Id: CESQG	2919 MAIN ST	WNW 0 - 1/8 (0.039 mi.)	AH250 / 1	2496
BUZZS ENTERPRISES IN EPA Id: CTP000005335	4031 MAIN ST	NE 0 - 1/8 (0.044 mi.)	AS277 / 1	2576
BUZZS SVS STATION EPA Id: CTP000015071	***4031 MAIN ST***	***NE 0 - 1/8 (0.044 mi.)***	***AS280 / 1***	***2580***
MUSTAFA TEXACO EPA Id: CTP000027735	4031 MAIN ST	NE 0 - 1/8 (0.044 mi.)	AS284 / 1	2585
ADVANCE AUTO 6213 EPA Id: CESQG	2969 MAIN ST	WNW 0 - 1/8 (0.055 mi.)	331 / 1	2635
WALTER STANLEY EPA Id: CT$000026410	***3715 MAIN ST***	***ENE 0 - 1/8 (0.067 mi.)***	***BU366 / 1***	***2672***
MOBIL OIL CORP SERV EPA Id: CTD983878471	***3691 MAIN ST***	***NE 0 - 1/8 (0.069 mi.)***	***BU391 / 1***	***2711***
MODERNIZED CLNRS	4100 MAIN ST	ENE 0 - 1/8 (0.073 mi.)	BH418 / 1	2773

EPA Id: CTP000008245 EPA Id: CTD982715435				
AMOCE EPA Id: CTP000016887	3956 MAIN ST	E 0 - 1/8 (0.074 mi.)	CB425 / 1	2975
AAMACO EPA Id: CTP000025720	***3956 MAIN ST***	***E 0 - 1/8 (0.074 mi.)***	***CB429 / 1***	***2979***
COMMARCE PARK DENTAL EPA Id: CESQG	4702 MAIN ST	W 0 - 1/8 (0.087 mi.)	BQ487 / 1	3137
CVS # 02143 EPA Id: CTR000509586	3710 MAIN STREET	ENE 0 - 1/8 (0.096 mi.)	BU523 / 1	3189
CVS 02143 EPA Id: CTR000503588 EPA Id: CTR000509588	3710 MAIN STREET	ENE 0 - 1/8 (0.096 mi.)	BU525 / 1	3191
CVS 148 EPA Id: CTR000509580	3710 MAIN ST	ENE 0 - 1/8 (0.096 mi.)	BU526 / 1	3363
BROOKSIDE ASSOC C O EPA Id: CTP000013603	4515-4575 MAIN ST	NW 0 - 1/8 (0.097 mi.)	CT527 / 1	3364
READ SCHOOL EPA Id: CTP000019612	30 EZRA ST	ESE 0 - 1/8 (0.098 mi.)	CJ529 / 1	3381
EQUITY MGT CORP EPA Id: CTP000028180	45-47 HILLHOUSE RD	ENE 0 - 1/8 (0.109 mi.)	CZ563 / 1	3426
DRY CLEANING STATION EPA Id: CTR000506402	***65A HAWLEY AVE***	***SE 0 - 1/8 (0.114 mi.)***	***CN586 / 1***	***3451***
DRY CLEANING STATION EPA Id: CTP000029520	65A HAWLEY AVE	SE 0 - 1/8 (0.114 mi.)	CN587 / 1	3458
LARRY GOTTLIEB EPA Id: CT$000028160	4697 MAIN ST	W 0 - 1/8 (0.115 mi.)	DI593 / 1	3467
JEFFREY A BABUSHIKIN EPA Id: CT$000029080	4697 MAIN ST	W 0 - 1/8 (0.115 mi.)	DI594 / 1	3468
BRIDGEPORT OPTHALMOL EPA Id: CT2034500199	4699 MAIN ST SUITE 2	W 0 - 1/8 (0.115 mi.)	DI596 / 1	3473
RANDALL H. NEICHIN, EPA Id: CT$000030700	***4699 MAIN ST***	***W 0 - 1/8 (0.115 mi.)***	***DI599 / 1***	***3477***
BROOKSIDE CLEANERS EPA Id: CTP000005949	4533 MAIN ST	NW 0 - 1/8 (0.123 mi.)	CT638 / 1	3522
CLEANORAMA INC EPA Id: CTD981067804	***4533 MAIN ST***	***NW 0 - 1/8 (0.123 mi.)***	***CT643 / 1***	***3538***
BROOKSIDE DRY CLEANE EPA Id: CTD981890106	4533 MAIN ST	NW 0 - 1/8 (0.123 mi.)	CT644 / 1	3548
STOP & SHOP EPA Id: CTP000023914	4531 NORTH MAIN ST	NW 0 - 1/8 (0.124 mi.)	CT647 / 1	3604
EDENS & AVANT NORTHE EPA Id: CTP000025649	4563 MAIN ST	WSW 0 - 1/8 (0.124 mi.)	DJ658 / 1	3622
BROOKSIDE CLNRS EPA Id: CTP000016202	4563 MAIN ST	WSW 0 - 1/8 (0.124 mi.)	DJ659 / 1	3623
KEN CERRITELLI EPA Id: CTP000011276	***1554 MADISON AVE***	***W 1/8 - 1/4 (0.129 mi.)***	***DV680 / 1***	***3651***
DAVE AUTO SALES	1564 MADISON AVE	W 1/8 - 1/4 (0.136 mi.)	DV706 / 1	3695

EPA Id: CTP000021499				
CITGO EPA Id: CTP000020086	1564 MADISON AVE	W 1/8 - 1/4 (0.136 mi.)	DV707 / 1	3696
AL SCHACHTER EPA Id: CTP000026770	2660 MAIN ST	SSE 1/8 - 1/4 (0.155 mi.)	EJ759 / 1	3759
ACCUMEDICA EPA Id: CESQG	2660 MAIN ST	SSE 1/8 - 1/4 (0.155 mi.)	EJ773 / 1	3769
STAWAT GROSS EPA Id: CT$000030530	2660 MAIN ST	SSE 1/8 - 1/4 (0.155 mi.)	EJ779 / 1	3773
ST VINCENTS FAMILY H EPA Id: CT2035765946	***762 LINDLEY STREET***	***SSE 1/8 - 1/4 (0.170 mi.)***	***EM813 / 1***	***3811***
ALEXANDERS TUXEDOS EPA Id: CTD045170792	***3079 MAIN ST***	***NW 1/8 - 1/4 (0.188 mi.)***	***FL874 / 1***	***3881***
BRIDGEPORT CITY OF EPA Id: CTP000023607	***280 TESINY AVE***	***ENE 1/8 - 1/4 (0.192 mi.)***	***EN887 / 1***	***3980***
SERINO DELUCIN EPA Id: CT$000030790	3084 MAIN ST	NNW 1/8 - 1/4 (0.193 mi.)	FL893 / 1	3988
THE UNITED ILLUMINAT EPA Id: CESQG0000000	107 JACKSON AVENUE	ESE 1/8 - 1/4 (0.195 mi.)	FN898 / 1	3995
UNITED ILLUMINATING EPA Id: CTW000512483	107 JACKSON STREET	ESE 1/8 - 1/4 (0.195 mi.)	FN899 / 1	3996
WHOLE SALE FUEL DIST EPA Id: CTP000030749	2613 MAIN ST	SSE 1/8 - 1/4 (0.209 mi.)	FI936 / 1	4034

NJ MANIFEST: Hazardous Waste Manifest Data

A review of the NJ MANIFEST list, as provided by EDR, and dated 12/31/2018 has revealed that there is 1 NJ MANIFEST site within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
ST VINCENTS HOSPITAL EPA Id: CTD072147259	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE141 / 1	2325

PA MANIFEST: Manifest Information

A review of the PA MANIFEST list, as provided by EDR, and dated 06/30/2018 has revealed that there are 4 PA MANIFEST sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
ST. VINCENTS MEDICIA Generator EPA Id: CTD072147259	2800 MAIN STREET	ESE 0 - 1/8 (0.020 mi.)	AE134 / 1	2316
BRIDGEPORT OPTHALMOL Generator EPA Id: CT2034500199	4699 MAIN ST SUITE 2	W 0 - 1/8 (0.115 mi.)	DI598 / 1	3475
ST VINCENTS FAMILY H Generator EPA Id: CT2035765946	762 LINDLEY ST	SSE 1/8 - 1/4 (0.170 mi.)	EM812 / 1	3809
NEMG BRIDGEPORT INTE	3100 MAIN ST STE 301	NNW 1/8 - 1/4 (0.205 mi.)	FS922 / 1	4020

Generator EPA Id: CT2033739100

RI MANIFEST: Manifest information

A review of the RI MANIFEST list, as provided by EDR, and dated 12/31/2019 has revealed that there are 4 RI MANIFEST sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
CONTINENTAL CLEANERS EPA Id: CTD981062391 Manifest Document Number: RIG0253045	***1183 MADISON AVE***	***E 0 - 1/8 (0.013 mi.)***	***AA95 / 1***	***470***
MADISON CLEANERS EPA Id: CTD983868639 Manifest Document Number: RIG0197385	***1165 MADISON AVE***	***ENE 0 - 1/8 (0.018 mi.)***	***AA109 / 1***	***492***
ST VINCENT'S MEDICAL EPA Id: CTD072147259 Manifest Document Number: 005240208JJK	***2800 MAIN ST***	***ESE 0 - 1/8 (0.020 mi.)***	***AE179 / 1***	***2373***
ALEXANDERS TUXEDOS EPA Id: CTD045170792 Manifest Document Number: 000093975UIS	***3079 MAIN ST***	***NW 1/8 - 1/4 (0.188 mi.)***	***FL874 / 1***	***3881***

NY MANIFEST: Facility and Manifest Data

A review of the NY MANIFEST list, as provided by EDR, and dated 01/01/2019 has revealed that there are 4 NY MANIFEST sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
ST VINCENT'S MEDICAL EPA ID: CTD072147259	***2800 MAIN ST***	***ESE 0 - 1/8 (0.020 mi.)***	***AE179 / 1***	***2373***
PEOPLES BANK EPA ID: CTP000028489	25 WOODMONT ST	ENE 0 - 1/8 (0.022 mi.)	G203 / 1	2438
READ SCHOOL EPA ID: CTP035768030	130 EZRA ST	W 0 - 1/8 (0.043 mi.)	AT269 / 1	2567
EQUITY MANAGEMENT CO EPA ID: CTP000028180	45 47 HILL HOUSE ROA	ENE 0 - 1/8 (0.109 mi.)	CZ551 / 1	3405

CT NPDES: Wastewater Permit Listing

A review of the CT NPDES list, as provided by EDR, and dated 06/16/2021 has revealed that there are 16 CT NPDES sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
FAIRFIELD SALT STORA Permit Number: GSI000020 Status: Expired Status: Active	ROUTE 15	WNW 0 - 1/8 (0.015 mi.)	Z101 / 1	482
ST. VINCENT'S MEDICA	***2800 MAIN ST***	***ESE 0 - 1/8 (0.020 mi.)***	***AE118 / 1***	***680***

Permit Number: CTMIU0297 Status: Expired				
ST. VINCENT'S MEDICA Permit Number: GPH000559 Permit Number: SP0002268 Status: Expired	***2800 MAIN ST***	***ESE 0 - 1/8 (0.020 mi.)***	***AE128 / 1***	***2264***
ST. VINCENT'S MEDICA Permit Number: GDS000174 Status: Expired	2800 MAIN ST	ESE 0 - 1/8 (0.020 mi.)	AE146 / 1	2345
WALGREENS #7522 Permit Number: GPH000942 Status: Expired Status: Active	4083 MAIN ST	ENE 0 - 1/8 (0.022 mi.)	AI200 / 1	2435
POSH CARWASH AND DET Permit Number: GVM001026 Permit Number: GVW000420 Status: Expired	30 PERRONETTE DR	SW 0 - 1/8 (0.033 mi.)	E227 / 1	2464
VALVOLINE INSTANT OI Permit Number: GVM000939 Permit Number: GVS000260 Permit Number: GVS000732 Status: Expired	4160 MAIN ST	SE 0 - 1/8 (0.044 mi.)	AW274 / 1	2574
SUPERSHINE AUTO DETA Permit Number: GVS000668	418 GARFIELD AVE	SE 0 - 1/8 (0.054 mi.)	AL329 / 1	2634
BROOKSIDE CENTER Permit Number: GSC000254 Status: Expired	4485 MAIN ST	NW 0 - 1/8 (0.058 mi.)	BJ334 / 1	2638
MAIN FREEDOM FUELS Permit Number: TA-220 Status: Expired	***3956 MAIN ST***	***E 0 - 1/8 (0.074 mi.)***	***CB423 / 1***	***2973***
CVS #2143 Permit Number: GPH000483	3710 MAIN STREET	ENE 0 - 1/8 (0.096 mi.)	BU520 / 1	3180
CVS / PHARMACY # 214 Permit Number: GPH000483 Status: Expired	3710 MAIN ST	ENE 0 - 1/8 (0.096 mi.)	BU521 / 1	3181
BPT INTERNAL MEDICAL Permit Number: GPH000307	4641 MAIN STREET	W 0 - 1/8 (0.111 mi.)	573 / 1	3438
BROOKSIDE PLAZA Permit Number: GSC000055 Status: Expired	***4531-4575 MAIN ST***	***NW 0 - 1/8 (0.124 mi.)***	***CT651 / 1***	***3614***
BROOKWAY CENTER Permit Number: GSC000253 Status: Expired	4553 MAIN ST	SW 1/8 - 1/4 (0.128 mi.)	DJ678 / 1	3650
SHELL SERVICE STATIO Permit Number: GGR001674 Status: Expired	***2613 MAIN ST***	***SSE 1/8 - 1/4 (0.209 mi.)***	***FI947 / 1***	***4064***

EXECUTIVE SUMMARY

CT SEH: List of Significant Environmental Hazards Report to DEEP

A review of the CT SEH list, as provided by EDR, and dated 09/30/2020 has revealed that there is 1 CT SEH site within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
BP SERVICE STATION #	3956 MAIN STREET	E 0 - 1/8 (0.074 mi.)	CB433 / 1	3039

CT UIC: Underground Injection Control Listing

A review of the CT UIC list, as provided by EDR, and dated 06/15/2020 has revealed that there is 1 CT UIC site within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
MAIN FREEDOM FUELS	***3956 MAIN ST***	***E 0 - 1/8 (0.074 mi.)***	***CB432 / 1***	***3037***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR Exclusive Historical Auto Stations

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there are 21 EDR Hist Auto sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
STRATFORD EXXON INC	2820 MAIN ST	SE 0 - 1/8 (0.018 mi.)	AE112 / 1	676
CERRITELLI CHEVRON S	4464 MAIN ST	NW 0 - 1/8 (0.022 mi.)	C190 / 1	2419
970 TORRINGFORD STRE	42 FERN ST	NE 0 - 1/8 (0.033 mi.)	H225 / 1	2463
GRAND GARAGE	1041 MADISON AVE	ESE 0 - 1/8 (0.038 mi.)	AD249 / 1	2496
MIKES SUNOCO	1210 MADISON AVE	NE 0 - 1/8 (0.041 mi.)	AA253 / 1	2527
LUCAS & WELLINGTON	4063 MAIN ST	ENE 0 - 1/8 (0.042 mi.)	AS259 / 1	2552
MELISI ANGELO	715 FRENCHTOWN	S 0 - 1/8 (0.044 mi.)	276 / 1	2576
DI CESARE ANTHONY D	4031 MAIN ST	NE 0 - 1/8 (0.044 mi.)	AS283 / 1	2584
PORTER SERVICE	7 WAYNE ST	NNE 0 - 1/8 (0.045 mi.)	AY290 / 1	2588
BEDELLS AMOCO	260 HARLEM AVE APT 2	SSW 0 - 1/8 (0.046 mi.)	297 / 1	2602
BUZZS ENTERPRISES IN	4045 MAIN ST	NE 0 - 1/8 (0.049 mi.)	AS307 / 1	2610
T&B MOBIL STATION	3691 MAIN	NE 0 - 1/8 (0.069 mi.)	BU381 / 1	2693
ENGBORG BURGAR M JR	4154 MAIN ST	SE 0 - 1/8 (0.071 mi.)	AW405 / 1	2761
BEDELLS AMERICAN SER	3956 MAIN ST	E 0 - 1/8 (0.074 mi.)	CB431 / 1	3037
BROADBENT DONALD	3940 MAIN ST	ENE 0 - 1/8 (0.080 mi.)	BB464 / 1	3103
NISKI JOHN	3800 MAIN ST	ENE 0 - 1/8 (0.080 mi.)	CI470 / 1	3111
PAULS SERVICE CENTER	819 LINDLEY ST	SSE 0 - 1/8 (0.109 mi.)	CM555 / 1	3414
MARITIME LEASING COR	4695 MAIN ST	W 0 - 1/8 (0.115 mi.)	DI588 / 1	3460
CERRITELLI CHEVRON S	1554 MADISON AVE 64	W 1/8 - 1/4 (0.129 mi.)	DV682 / 1	3654
WHEELER AUTO INC	1564 MADISON AVE	W 1/8 - 1/4 (0.136 mi.)	DV708 / 1	3697
BERNARDOS SHELL	2613 MAIN ST	SSE 1/8 - 1/4 (0.209 mi.)	FI931 / 1	4030

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

A review of the EDR Hist Cleaner list, as provided by EDR, has revealed that there are 8 EDR Hist Cleaner sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
CONTINENTAL CLEANERS	1183 MADISON AVE	E 0 - 1/8 (0.013 mi.)	AA96 / 1	476
MADISON SERVICE LAUN	1165 MADISON AVE	ENE 0 - 1/8 (0.018 mi.)	AA108 / 1	491
LINCOLN CLEANERS	1088 MADISON AV	ENE 0 - 1/8 (0.043 mi.)	AD271 / 1	2571
MAIN STREET WASH AND	3939 MAIN ST	ENE 0 - 1/8 (0.061 mi.)	BB342 / 1	2646
BURNSFORD CLEANERS I	3876 MAIN ST	ENE 0 - 1/8 (0.067 mi.)	378 / 1	2689
MODERNIZED CLEANERS	4100 MAIN ST	ENE 0 - 1/8 (0.073 mi.)	BH416 / 1	2772
BROOKSIDE CLEAN O RA	4533 MAIN ST	NW 0 - 1/8 (0.123 mi.)	CT641 / 1	3536
BROOKSIDE DRY CLEANE	4563 MAIN ST	WSW 0 - 1/8 (0.124 mi.)	DJ660 / 1	3628

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

CT RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

A review of the CT RGA LUST list, as provided by EDR, has revealed that there are 60 CT RGA LUST sites within approximately 0.25 miles of the requested target property.

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
ST. VINCENTS HOSPITA	2800 MAIN STREET	ESE 0 - 1/8 (0.020 mi.)	AE120 / 1	683
Not reported	270 AMSTERDAM AVENUE	SW 0 - 1/8 (0.027 mi.)	AC207 / 1	2442
PEZZELLA	55 TREMONT AVE	WSW 0 - 1/8 (0.027 mi.)	Q210 / 1	2445
Not reported	47 FAIRVIEW AVE.	W 0 - 1/8 (0.032 mi.)	AM219 / 1	2455
CITY OF BRIDGEPORT	376 WAYNE ST.	ENE 0 - 1/8 (0.034 mi.)	AO231 / 1	2468
Not reported	1041 MADISON AVE.	ESE 0 - 1/8 (0.038 mi.)	AD245 / 1	2484
GRAND GARAGE	1041 MADISON AVE.	ESE 0 - 1/8 (0.038 mi.)	AD246 / 1	2484
Not reported	423 WAYNE ST	NE 0 - 1/8 (0.044 mi.)	M285 / 1	2586
FIVE CORNER AUTO SAL	7 WAYNE STREET (MARI	NNE 0 - 1/8 (0.045 mi.)	AY289 / 1	2588
MOBIL STATION (PORTE	7 WAYNE STREET (MARI	NNE 0 - 1/8 (0.045 mi.)	AY291 / 1	2589
MOBIL STATION (PORTE	7 WAYNE STREET	NNE 0 - 1/8 (0.045 mi.)	AY292 / 1	2589
Not reported	4143 MAIN ST.	SSE 0 - 1/8 (0.048 mi.)	AW301 / 1	2605
Not reported	213 THORME ST.	ESE 0 - 1/8 (0.049 mi.)	AQ305 / 1	2609
Not reported	55 VINCELETTE STREET	SW 0 - 1/8 (0.052 mi.)	BF320 / 1	2625
ACERO RESIDENCE	225 ROCTON AVENUE	E 0 - 1/8 (0.062 mi.)	BO345 / 1	2649
TOM CORBETT RESIDENC	43 HILLVIEW	WNW 0 - 1/8 (0.063 mi.)	BQ349 / 1	2656
CORBETT RESIDENCE	43 HILLVIEW	WNW 0 - 1/8 (0.063 mi.)	BQ350 / 1	2656
HOME	43 HILLVIEW	WNW 0 - 1/8 (0.063 mi.)	BQ352 / 1	2660
Not reported	92 MARSDALE AVE	NW 0 - 1/8 (0.065 mi.)	BT361 / 1	2668
Not reported	3715 MAIN ST (REAR)	ENE 0 - 1/8 (0.067 mi.)	BU371 / 1	2679
ISRAEL RUBIN	226 WESTFIELD AVENUE	NE 0 - 1/8 (0.067 mi.)	BP377 / 1	2689
MOBIL SERVICE STATIO	3691 MAIN STREET	NE 0 - 1/8 (0.069 mi.)	BU388 / 1	2709
3741 MAIN STREET	3741 MAIN STREET	ENE 0 - 1/8 (0.069 mi.)	BU396 / 1	2745
AMOCO	3956 MAIN STREET	E 0 - 1/8 (0.074 mi.)	CB424 / 1	2975
FORMER AMOCO #05089	3956 MAIN STREET	E 0 - 1/8 (0.074 mi.)	CB430 / 1	3036
AMOCO NO. 5089	3956 MAIN STREET	E 0 - 1/8 (0.074 mi.)	CB434 / 1	3039
DR. WEINSTEIN	2962 MAIN STREET	NNW 0 - 1/8 (0.075 mi.)	BR444 / 1	3082
WALTER KELL	77 OCHSNER ST.	NW 0 - 1/8 (0.076 mi.)	CE453 / 1	3090
CONSUMERS PETROLEUM	3800 MAIN STREET	ENE 0 - 1/8 (0.080 mi.)	CI466 / 1	3104

EXECUTIVE SUMMARY

Site	Address	Direction / Distance	Map ID / Focus Map(s)	Page
3800 MAIN (FORMER CO	3800 MAIN STREET	ENE 0 - 1/8 (0.080 mi.)	CI469 / 1	3110
FRANK CARRANO	33 CLARKE STREET	E 0 - 1/8 (0.086 mi.)	BK484 / 1	3134
PEREIRA RESIDENCE	691 FAIRVIEW AVENUE	SW 0 - 1/8 (0.105 mi.)	CP540 / 1	3392
LEONARD RUTKOWSKY	168 MARION STREET	SSE 0 - 1/8 (0.109 mi.)	DA552 / 1	3407
PAUL'S SERVICE CENTE	819 LINDLEY STREET	SSE 0 - 1/8 (0.109 mi.)	CM559 / 1	3423
Not reported	105 TERRY PLACE	ENE 0 - 1/8 (0.117 mi.)	DL607 / 1	3488
SCHNEIDER, EUGENE &	215 CLEVELAND AVE	SE 1/8 - 1/4 (0.128 mi.)	CV674 / 1	3644
CARDILLO	169 TREMONT AVENUE	WNW 1/8 - 1/4 (0.134 mi.)	DD699 / 1	3679
CERVERA RESIDENCE	150 GURDON	SSE 1/8 - 1/4 (0.135 mi.)	DE701 / 1	3683
MR. FRANK JIANATASIO	371 CLARK ST.	W 1/8 - 1/4 (0.136 mi.)	DZ714 / 1	3707
Not reported	17 CHARRON ST	E 1/8 - 1/4 (0.137 mi.)	EA715 / 1	3707
COCCA	115 SAVOY STREET	ENE 1/8 - 1/4 (0.137 mi.)	EB718 / 1	3713
UNKNOWN	140 GURDON STREET	SSE 1/8 - 1/4 (0.143 mi.)	DE728 / 1	3725
PEOPLE'S SAVINGS BAN	790 LINCOLN AVENUE	WSW 1/8 - 1/4 (0.146 mi.)	EC734 / 1	3733
Not reported	225 LINCOLN AVE	E 1/8 - 1/4 (0.147 mi.)	ED737 / 1	3736
RAY VIDA	450 DEXTER DR.	E 1/8 - 1/4 (0.158 mi.)	EP794 / 1	3790
WOLTCH RESIDENCE	169 WOODSIDE AVENUE	NE 1/8 - 1/4 (0.171 mi.)	ES815 / 1	3817
Not reported	194-196 GARFIELD AVE	E 1/8 - 1/4 (0.177 mi.)	ED834 / 1	3836
OSWALDO TORRES	90-92 JACKSON AVE	ESE 1/8 - 1/4 (0.181 mi.)	EE842 / 1	3844
GREG DREW / CENTURY	53 WILCOX STREET	NNE 1/8 - 1/4 (0.183 mi.)	FD849 / 1	3858
DREW RESIDENCE	53 WILCOX STREET	NNE 1/8 - 1/4 (0.183 mi.)	FD850 / 1	3858
JANE DREW	53 WILCOX STREET	NNE 1/8 - 1/4 (0.183 mi.)	FD851 / 1	3858
GEORGE SEPI ,DBA DON	215 SALEM ST 550 US	SSE 1/8 - 1/4 (0.187 mi.)	FI866 / 1	3871
Not reported	298 MCKINLEY AVE.	SSE 1/8 - 1/4 (0.197 mi.)	FO904 / 1	4001
SHELL FACILITY NO. 1	2613 MAIN STREET	SSE 1/8 - 1/4 (0.209 mi.)	FI933 / 1	4031
SHELL FACILITY 13628	2613 MAIN STREET	SSE 1/8 - 1/4 (0.209 mi.)	FI934 / 1	4032
SELL FACILITY NO. 13	2613 MAIN STREET	SSE 1/8 - 1/4 (0.209 mi.)	FI946 / 1	4063
SHELL FACILITY #1362	2613 MAIN STREET	SSE 1/8 - 1/4 (0.209 mi.)	FI950 / 1	4066
SHELL STATION	2613 MAIN STREET	SSE 1/8 - 1/4 (0.209 mi.)	FI951 / 1	4066
UNKNOWN	140 LINCOLN AVENUE	ENE 1/8 - 1/4 (0.216 mi.)	FT960 / 1	4077
NOVA REALTY	140 LINCOLN AVENUE	ENE 1/8 - 1/4 (0.216 mi.)	FT961 / 1	4078

Appendix F – List of Preparers

LIST OF PREPARERS

The following is a list of the primary preparers of this document:

Name	Title	Firm
Stephen L. Lecco, AICP, CEP	Associate Principal – Principal Planner	GZA
Thomas E. Jenkins, Jr., P.E.	Associate Principal – Principal Engineer	GZA
Jennifer R.M. Burke, P.E., CPSWQ, LEED Green Associate	Senior Project Manager – Water Resources Engineer	GZA
Samuel J. Bell, CFM	Senior Resiliency Planner	GZA
Rosalie T.F. Starvish, P.E., CFM, CPMSM	Water Resources Engineer	GZA
Seth R. Taylor, CESSWI, CEP	Environmental Scientist	GZA
Cora Ottaviani	Ecological Scientist	GZA
Jacquelyn Claver, CE, AWB	GIS Specialist, Environmental Scientist	GZA
Rachel Crum, EIT	Civil Engineer	GZA
Mary Harper, M.A., RPA	President	AHS, Inc.
James Sexton, Ph.D.	Architectural Historian	AHS, Inc.
Ross Harper, Ph.D., RPA	Senior Historical Archaeologist	AHS, Inc.

Appendix G – Disclosure Statement

ENVIRONMENTAL CONSULTANT DISCLOSURE STATEMENT FORM

Project Title: Ox Brook Flood Control Master Plan Project EIE
Bridgeport, CT

Sponsoring Agency: CT Department of Environmental Protection

Sponsoring Agency Representative: Frederick Riese

Project/Action Description: Implementation of a Six (6) Phase Project to alleviate chronic flooding along the Ox Brook corridor within the City of Bridgeport

I, Stephen L. Lecco, hereby declare that neither GZA GeoEnvironmental, Inc., nor any of its shareholders, principals or partners, as the case may be, has any financial interest in the outcome of the environmental assessment or the use of the property described above, and will not have such interest at any time during the term of the contract or task letter, which is later.

Typed Name: Stephen L. Lecco

Authorized Signature: _____ **Date:** February 18, 2022

Name of Firm: GZA GeoEnvironmental, Inc.

Address of Firm: **1350 Main Street, Suite 1400**
Springfield, MA 01103

*****END OF STATEMENT*****