COASTAL RESOURCES MANAGEMENT

PROGRAM (RICRMP) NARRATIVE

Woonasquatucket Greenway
Promenade Street, Kinsley Avenue, & Eagle Street
Providence, Rhode Island

Prepared for:

City of Providence

Prepared by:

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1.0 PROJECT DESCRIPTION

1.1 Project Location

This report provides a summary of the proposed Woonasquatucket Greenway improvements within and adjacent to the Woonasquatucket River, Promenade Street, Kinsley Avenue, and Eagle Street in Providence. The proposed project consists of mobility improvements to provide a protected pedestrian/bicycle urban trail between Providence Place Mall and Eagle Square, including new planted areas, two pocket parks, two kayak launches, and associated utility, stormwater control measures, and landscape improvements. The purpose of this report is to describe the pre- and post-development site conditions for the entire project, and to address specific requirements for the CRMC application.

The Woonasquatucket River is a CRMC water use Class Type 4 (multi-purpose) and is one of 14 federally designated American Rivers. Its headwaters are located in North Smithfield. It flows through Providence, under the Providence Place Mall, continues southeast to join the Moshassuck River to form the Providence River and eventually the upper part of Narragansett Bay. At the project site the river is a relatively deep and wide (35-80 feet) perennial stream which flows through the project site within a well-defined channel from west to east. The riverbank is a freshwater resource that is directly associated with a tidal coastal river located seaward of the jurisdictional boundary that is regulated by the CRMC. Accordingly, the Woonasquatucket River has a riverbank wetland. The river is tidally influenced below (east of) the Rising Sun Dam – including within the entirety of the proposed limit of work.

The proposed improvements are located within existing City rights-of-way. Stormwater runoff is currently discharged directly to the Woonasquatucket River without treatment via existing City closed drainage system and pipe outfalls. Rhode Island Department of Transportation (RIDOT) jurisdiction within the project area is limited to the existing Promenade/Dean signal, I-95 offramps, and I-95 viaducts.

1.2 Existing Conditions

The project area consists of city streets, including paved travel way, concrete sidewalks, and limited grass tree lawns, and is located adjacent to the tidally influenced Woonasuatucket River. Portions of the project area are within the 100-year AE Flood Zone per FEMA Flood Insurance Rate Map 44007C0308J last revised October 2, 2015, and a much smaller portion is located within the Floodway (5,050 SF).

Stormwater runoff within the study area is typically conveyed to the Woonasquatucket River directly via catch basins with sumps, closed drainage system pipes, and stormwater outfalls to the river. The Woonasquatucket River is on the State of Rhode Island Impaired Waters Report (March 2018) 303(d) list for multiple impairments/causes. TMDLs exist for copper, lead, and zinc. Additional information related to existing and proposed drainage can be found in the **Woonasquatucket Greenway Stormwater Report.**

1.3 Proposed Conditions

The Applicant proposes to construct the following:

- A separated multi-use urban trail, converting an existing vehicular travel lane to a trail with associated pedestrian/bicycle, signage, and striping improvements and a vegetated buffer wherever possible;
- A new pocket park adjacent to Hemlock Street;
- A new pocket park at the Eagle Street/Kinsley Avenue intersection;
- A kayak launch adjacent to Kinsley Avenue near Sims Avenue;
- A kayak launch near Leland Street and Promenade Street;
- Street tree planting and associated improvements; and
- Green stormwater infrastructure bioretention systems.

Overall, the project area disturbed encompasses 5.9 acres with majority of the improvements taking place on existing paved roadway. Approximately 3.5 acres of the total disturbance consists of milling and resurfacing the existing road surface. The proposed stormwater management includes a green stormwater infrastructure (GSI) approach to capture, treat, infiltrate (where feasible), and detain runoff, when applicable and to the maximum extent practicable, by using pavement reduction and GSI practices incorporated into the overall site and landscape design. Additional information related to the design of these practices can be found in the **Woonasquatucket Greenway Stormwater Report.**

1.3.1 Kayak Launches

The two proposed kayak/non-motorized boat launches are located off Kinsley Avenue (Launch 1), and near the Leland Street and Promenade Street intersection (Launch 2). HW conducted extensive existing conditions review and alternatives investigation for potential launch locations, including mapping, multiple site walks, and a kayak tour. The existing conditions within the project areas include a vegetated bank with a slope ranging from 2:1 to 5:1. Even though they are steep, the selected locations are the most conducive areas for ramps in this section of the river. This is highlighted in the **Freshwater Wetland in the Vicinity of the Coast Narrative.**

Shoreline Protection

Due to the steep slopes along the riverbank, shoreline protection is proposed for both launches. Permanent protection is proposed upslope in both locations. For Launch 1, walls are proposed to reduce the amount of cut into the bank, and to provide seating spaces along the edge of the ramp to further promote a comfortable public connection to the river. Due to the steepness of the existing slopes, some type of structural stabilization is needed to accommodate space for the ramp. By utilizing the walls as proposed, the amount of disturbance and cut that would continue up the slope is minimized and public benefit is maximized.

For Launch 2, a flexible geotextile-soil bag system vegetated wall (FlexMSE) is proposed upslope from the ramp. In a few locations along this section the existing slope is currently 2:1. Utilizing the "bags" on the areas steeper than 2:1 along with brush cuttings and stabilizing seed mix, is proposed to withstand flooding events. Temporary protection (erosion control blanket) is provided in all other areas within the floodway while plants become established.

Concrete walls are used for Launch 1 because the ramp slopes with the flow of the river and a hard seating surface can be included without acting as a block to the river flow. Launch 2 utilizes the "bags" to blend into the existing slope and create a smooth river edge. Even though the ramp is directed upstream the flow of the river will not be impeded and the bank mimics existing conditions.

1.3.2 Construction (Checklist Item 11)

Areas expected to be impacted during construction

The majority of the area that will be impacted during construction is within the existing street right-of-way. The only locations that are not are the two kayak launches, the Hemlock Street Pocket Park, and any vegetation maintenance for viewshed establishment in the designated areas.

Time of Construction

The current schedule for the project assumes commencement of construction in the spring of 2022. and an approximately one-year construction schedule. The schedule still needs to be defined pending coordination with the City and selected contractor. Elements of the project may be bid separately to utilize various sources of funding, therefore the timeline may be extended. A five-year permit duration was discussed with CRMC representatives during pre-application meetings.

Construction method (expected type of equipment)

Construction of the urban trail, street reconfiguration, green stormwater infrastructure, and planting will be typical of municipal street work – heavy equipment will be to be determined based on coordination with the selected contractor. Proposed hardscape elements along the riverbank (walls, launch areas, etc.) are proposed as poured-in-place concrete structures to help limit construction footprint within a tight area along the bank and reduce the amount of disturbance. Construction equipment in these areas will require a mini-rubber track based excavator and mini ATV construction vehicle for excavation, grading and hauling and placement of materials.

Utilities

Expected adjustments to utilities include rim adjustments for manholes and other utility structures; converting existing drainage inlets into manholes, providing new catch basins and tying into existing structures; relocating a hydrant near the Eagle Street intersection; and providing new light posts with associated electric connections. See the submitted plans for details. Although it is expected that the proposed drainage infrastructure will be in close proximity to other utilities, based on coordination with Narragansett Bay Commission, City of Providence, and National Grid, significant utility relocation other than electrical for lighting is not anticipated.

Shore Access

Currently there is minimal shore access along this section of the river because of the existing

vehicular guardrail between the city street/sidewalks and the riverbank. Access will not become available until the entire project is complete and the riverbank is stabilized.

2.0 RICMP SECTION 1.3.1 (A) NARRATIVE (Checklist item 10)

1. Demonstrate the need for the proposed activity or alteration.

The roadway network surrounding this section of the Woonasquatucket River within the study area is the most direct connection between the west side of Providence and Downtown. The Woonasquatucket River Watershed Council (WRWC) currently maintains the River's waterfront and has worked on building public awareness to make the River a destination. However, despite these efforts, the corridor has remained vehicle-centric, discouraging multimodal use and continuing negative impacts on the health of the river. Providing an urban trail facility along the corridor to create a safe space for pedestrians and bicycles to travel along the River's waterfront will bring a sense of community to the area, allowing enjoyment of public spaces, celebration of public art, and stewardship of the river's health. Additionally, incorporating public access to the river through the kayak launches provides an opportunity for residents in the area, which has a high percentage of low-income and minority populations, to connect with the river and its natural resources. The proposed improvements are a direct result of extensive prior planning in this area of the City, including the Great Streets Initiative and the EPA-funded Woonasquatucket Vision Plan.

2. Demonstrate all local zoning ordinances, building codes, and environmental requirements have or will be met.

DEM

Currently an application for a Water Quality Certificate (WQC) is being submitted to RIDEM with all required documentation: Site Plans, Stormwater Report, Operation and Maintenance Plan, SESC Plan, and Appendix A checklist.

RIPDES

The erosion control strategy for the site involves using techniques available in the RI Erosion and Sediment Control Handbook including silt sacks for every catch basin within the project limits and downgradient drainage area. Additionally, silt socks are proposed within the limit of work for any activity inside the existing guardrail for the pocket park and kayak launches. Notes are included requiring the contractor to monitor all devices and to stabilize exposed soil if exposed for more than 24 hours. The Soil Erosion and Sediment Control Plan (SESC) is enclosed, and the project will be covered under RIPDES CGP when an Assent is issued.

Army Corps of Engineers (USACE):

The project proposes less than 1,000 SF disturbance of existing wetland. A Pre-Construction Notification (PCN) under General Permit – 5. Boat Ramps and Marine Railways is anticipated due to work occurring in tidal waters and wetlands of the U.S. No further action is expected unless the CRMC/USACE determines further information is required.

Building Code

A CRMC Building Official form was submitted to appropriate parties and can be found in Appendix B.

3. Describe the boundaries of the coastal water and land area that is anticipated to be affected.

The two proposed kayak launches will affect area between the coastal water and land area as shown in the enclosed plans. Resources in these two locations are defined as freshwater wetlands in the vicinity of the Coast. These locations are mainly vegetated with a linear wetland along the entire river bank. In both locations the bank slopes are very steep and have been degraded over time; the wetland is limited to a narrow strip adjacent to the river. Both areas have a sharp drop in grade at the bankfull elevation interface with indications of erosion and undercutting. Photos of the two launch locations can be found in Appendix A.

4. Demonstrate that the alteration or activity will not result in significant impacts on erosion and/or deposition process along the shore and in tidal water.

In both proposed launch locations the changes to the riverbank will not result in significant impacts to cause erosion and/or modify sediment deposition processes along the shore and within tidal waters. Adjustments to the bank consist of cutting into the slope and restabilizing, with no fill proposed within the floodplain. In both launch locations, the proposed condition will be an improvement over existing stability and erosion conditions. For Launch 1, revegetation of a more gentle slope and the use of site walls will mitigate erosion and add stability. For Launch 2, revegetation and the use of the flexible geotextile-soil bag system vegetated wall (FlexMSE) in areas that exceed a slope of 2:1 will mitigate potential erosion and contribute to increased stability . Public access will be limited to the proposed launch locations and long-term oversight and maintenance by both the City and the WRWC Woonasquatucket River Watershed Council, a non-profit with resources and experience maintaining infrastructure within the corridor, will ensure erosion and or slope stabilization concerns will be monitored over time and remedied when needed.

5. Demonstrate that the alteration or activity will not result in significant impacts on the abundance and diversity of plant and animal life.

The proposed project will not affect the abundance and diversity of plant and animal life because of the minimal amount of change proposed within and adjacent to the river. Currently there is 665 SF disturbance proposed for the wetland resources; however, 510 SF of that amount will be restored after construction. Additionally, a small area of the riverbed (140 SF) is being permanently adjusted, which will not significantly impact habitat value for wildlife use.

6. Demonstrate that the alteration will not unreasonably interfere with, impair, or significantly impact existing public access to, or use of, tidal waters and /or the shore.

Except for a few small openings near Eagle Street, public access to this stretch of the Woonasquatucket River is currently blocked by a vehicular guardrail. A primary goal of this project is providing better public access to the water, both visually through locating the urban trail on the river side of the streets, and physically with the addition of pocket parks and boat launches. Opening the

guardrail in two locations, and providing the boat launches/ramps to the water will improve access to the river.

7. Demonstrate that the alteration will not result in significant impacts to water circulation, flushing, turbidity and sedimentation

In both locations the changes to the river edge are minimal, with adjustments to the bank consisting of cutting into the slope and restabilizing the bank. Negligible changes in the immediate currents adjacent to the kayak launches may occur during high tide, however, no vertical structures (rails, docks, etc.) are proposed within the river.

8. Demonstrate that there will be no significant deterioration in the quality of the water in the immediate vicinity as defined by DEM

The quality of water for the entire project will be improved. Overall, the project is reducing the amount of impervious area draining directly to the watershed by 15,594 SF (0.3%). Additionally, ten GSI practices are proposed along the roadway, capturing and filtering water that previously ran directly into the river without treatment. The GSI practices treat the 1-inch water quality event for 164,001 SF of impervious area in the immediate drainage area. As noted in the drainage report, the project provides water quality treatment well in excess of the amount required as a redevelopment project.

For the proposed non-motorized boat launches, because the approach to both designs is to cut/bench into the existing bank and stabilize uphill areas, the resulting gentler slopes will encourage a more stable and naturalized wetland area. In locations where there is a steep slope, stabilization practices include the FlexMSE living wall and a site wall. These practices will stabilize the bank and discourage erosion. The proposed disturbance for the two proposed launches is minimal in comparison to the area of the project and the river as a whole.

9. Demonstrate that the alteration or activity will not result in significant impacts to areas of historic or archaeological significance.

There are historic properties located adjacent to the project. However, the majority of the project is within the city right-of-way and no historic properties will be affected by the proposed work. The Public Archaeology Laboratory (PAL) report, located in Appendix F, indicates that the Woonasquatucket River Greenway project is unlikely to cause any direct or indirect effects on historic archeological sites or architectural properties.

10. Demonstrate that the alteration or activity will not result in significant conflicts with water dependent uses and activities such as recreational boating, fishing, swimming, navigation, and commerce.

Currently water dependent uses and activities cannot be accessed from the project area because of the existing vehicular guardrail and vehicular-oriented streets bordering the river. Access to the river in this location exists south of the Providence Place Mall (Waterplace) or north of Eagle Street – outside of the project limit of work. The proposed launches will encourage the use of the river for recreation, tourism, and other water dependent uses in an area where the population is significantly

lacking access, and where connectivity to adjacent resources (the Woonasqauatucket River corridor upstream, and downtown Providence downstream) has very high value.

11. Demonstrate that measures have been taken to minimize any adverse scenic impact.

Measures have been taken to minimize adverse scenic impacts by reducing the amount of bituminous pavement, opening views to the river, providing access points for the public with the two kayak launches, and incorporating canopy trees and vegetation to soften the streetscape and provide shade. Scenic impact will be significantly improved by adding the urban pedestrian/bicycle trail and associated buffers and planting adjacent to the river, in areas that are mostly vehicular-oriented in the existing condition. Additionally, the kayak launches are designed for as minimal disturbance as possible while still meeting ADA slopes.

3.0 RICMP SECTION 1.3.1 (B) FILLING, REMOVING OR GRADING OF SHORLINE FEATURES

Fill Slopes and Cut

No fill is proposed for either launch (no displacement of existing floodplain volume). Both designs propose cutting/benching into the riverbank so as to not impact the existing floodplain. In some locations, proposed slopes that exceed 30% cannot be avoided while maintaining the ADA accessible surface. In these locations additional stabilization methods are proposed.

Excess excavated materials.

A Remedial Action Work Plan and Soil Management Plan, currently under review by RIDEM, is being provided for the site to ensure all soils are being handled properly including any contaminated soils.

Vegetation Stabilization & soil amendments

All proposed earthwork within vicinity of the shoreline feature and upslope includes stabilization practices and revegetation. To ensure excessive nutrients are not applied to the recently seeded or planted areas soil test and recommended for soil amendments for the specific vegetation proposed are required for review prior to application of any amendments.

4.0 RICMP SECTION 1.1.7 VARIANCES

Applicants requiring a variance from a standard shall make such request in writing and address the six criteria listed below.

As a part of this project, two locations (Kayak launch 1 & 2) propose regrading the riverbank and installing construction fill in these areas. A variance is requested to install the launches to achieve the project and CRMCs goals of providing public access to the river. These goals would not be possible without these alterations to the riverbank.

1. The proposed alteration conforms with applicable goals and policies of the Coastal Resources Management Program.

The proposed project conforms with goals and policies of the Coastal Resources Management Programs and specifically for SAMP goals and those listed in the Woonasquatucket and Promenade Street District Recommendations Manual. These include creating a public connection to the river, improving water quality, reducing the amount of existing pavement, and creating a greenway that is

focused on pedestrians and bicyclists. More information about how these goals are reached is in Section 6.0 of this document.

2. The proposed alteration will not result in significant adverse environmental impacts or use conflicts, including but not limited to, taking into account cumulative impacts.
   Overall the project has a positive environmental impact by improving water quality, increasing green space with native vegetation, increasing the amount of canopy cover, and creating a separated multi-use trail.

3. Due to conditions at the site in question, the applicable standard(s) cannot be met.
   Due to the project goal of creating public access points to the Woonasquatucket River, and the steep slopes adjacent to the river along the length of this section, grading and construction fill is needed within the Riverbank to create an accessible ramp to the waters edge.

4. The modification requested by the applicant is the minimum variance to the applicable standard(s) necessary to allow a reasonable alteration or use of the site.
   The impacted area has been minimized to the furthest extent practicable. The amount of disturbance and construction fill occurring on the riverbank is directly related to the amount of slope needed to create an accessible ramp (8% slope with landings) on the steep existing bank slope.

5. The requested variance to the applicable standard(s) is not due to any prior action of the applicant or the applicant's predecessors in title.
   The current channelized riverbank conditions are a result of long ago industrialization in the corridor. The applicant and or the applicants predecessors are not responsible.

6. Due to the conditions of the site in question, the standard(s) will cause the applicant to undue hardship. In order to receive relief from an undue hardship an applicant must demonstrate inter alia the nature of the hardship and that the hardship is shown to be unique or particular to the site.
   Without regrading and include construction fill in the riverbank, the project's and CRMC's goals of connecting people to the river with public access points will not be possible.

5.0 SPECIAL EXCEPTION

A special exception is requested for proposing structural fill within the wetlands. Though no displacement of existing floodplain volume is proposed, the non-motorized boat launches will require concrete ramps and slope stabilization as shown in the plans.

5.1 Public Purpose

As outlined above (2.1.1) this project provides a much-needed multi-use connection between the Woonasquatucket Greenway separated trail to the west (upstream) and downtown to the east (downstream). Additionally, the launches provide access to the river where there is none in an area that has a high percentage of low-income and minority populations. The project is the direct result of extensive public planning processes, including the Great Streets Initiative and the Woonasquatucket Vision Plan.

5.2 Minimize environmental Impacts & alternatives

The locations selected for the proposed kayak launches were based on riverbank material / slope and ease of public access constraints and opportunities, as determined by existing conditions survey, multiple site visits, and a kayak tour. As shown in the images and figures provided in Appendix A, majority of the riverbank, on either side of the river poses difficulty due to steep slopes, existing infrastructure, and/or existing walls.

Additionally, the amount of disturbance required is determined by the design of the ADA accessible path. The street elevation at the top of the bank in both launch locations is between elevation 8 or 9. To reach the river elevation with a path that has the required 8% maximum slope and 5-foot landings creates a long linear ramp along the side of the bank – thus requiring the disturbance and cut as shown on the plans.

6.0 METRO BAY SPECIAL AREA MANAGEMENT PLAN NARRATIVE (SAMP)

6.1 Introduction and Background

The Woonasquatucket River Greenway Project proposes improvements along the Woonasquatucket Rvier between the Providence Place mall and Eagle Square. This project location falls within the Metro Bay Special Area Management Plan (SAMP) boundaries. SAMP aims to make the region of the Narragansett Bay bordering Cranston, East Providence, Providence and Pawtucket a more appealing place to live and work by improving the economic, social and environmental resources of the working waterfront; attracting major developers with more predictable and efficient permitting and providing recreation and access to the water. Within the SAMP boundary the Urban Coastal Greenway Design Manual (UCG) is applicable for this project. This specific location is within the Woonasquatucket River and Promenade Street District Recommendations for Management which serves as guidance for implementing the UCG policy specifically within the coastal area between the Providence Place Mall and Atwells Avenue.

6.2 Urban Coastal Greenway

Zone

The project area falls within the Inner Harbor River Zone within the SAMP boundaries. Specifically, the project is within the Woonasquatucket River & Promenade Street District.

Contaminated Site

Majority of the project has contaminated soils and requires remedial action. A Remedial Action Work Plan (RAWP SR-28-1991) and has been submitted and reviewed by RIDEM. The Remedial Approval Letter is attached in Appendix B.

Stormwater Management Plan.

A **Stormwater Analysis and Drainage Report** pursuant to RICRMP Section 300.6 and UCG Section 150 has been developed and has been submitted with the application.

Low Impact Development (LID)

A Low Impact Development (LID) Master Design Certificate Review has been completed. The form and narrative are attached as **Appendix A**.

Public Access

The entire project is located on public, city owned land with majority of it within the public right-of-way. This provides access for the public for the entire project area, with particular improvements provided for pedestrians and bicyclists through the addition on the multi-use trail and traffic calming measures. Additionally, access to the Woonasquatucket River is being proposed in two locations where currently none exists. This allows people within the community to connect with this resource in a way that is not currently possible in this area.

Landscape

The landscape for the project strives to provide greenspace and vegetation wherever possible to take advantage of the multiple benefits offered such as habitat improvements, urban heat island reduction, water capture and transpiration, human health, and traffic calming. Landscape areas were incorporated to the maximum extent practicable however, given the location of the project within a highly industrialized area that still needs to maintain truck and car traffic, the vegetative cover the vegetated surface area has increased from approximately 2% to 6% within the limit of work.

All species being proposed for the site are native or non-invasive added plants that can handle the high stress environment of the industrialized areas. A plant list of species to be utilized is included on the Landscape Plans.

Additionally, in areas that are tight on space due to pedestrian and vehicular circulation, structural tree cells are being provided to ensure there is adequate root space to produce a healthy tree and that soils are not over compacted. Details for these cells and be found on the Grading and Drainage Detail Sheets.

6.3 Woonasquatucket River & Promenade Street District Recommendations for Management

Habitat

The vegetation species selected for the project are mainly hardy native species with some non-invasive species that are adapted to the stressful urban conditions. Use of these plants improve habitat and food sources for local insects and wildlife. The plants proposed along the river bank are species adapted to river edge conditions that will be planted densely to stabilize the bank edge. Existing vegetation along the banks is being kept to the furthest extent practical with launches designed to avoid larger existing trees. To ensure excessive nutrients are not applied to the recently seeded or planted areas soil test and recommended for soil amendments for the specific vegetation proposed are required for review prior to panting. Additional information about the specific plant species and requirements can be found on the Landscape Plan and Detail Sheets.

Currently the Woonasquatucket River Council has been addressing the existing invasive vegetation with a management plan. This work, to restore native vegetation, will continue during and after the project is implemented.

Public Access.

This project meets the vision of the Woonasquatucket River and Promenade Street District in several ways. It gives bikers and walkers priority over vehicular traffic through the use of traffic calming measures and a separated multi-use trail. It provides areas for sitting to enjoy the outdoors and two access points to the Woonasquatucket River to allow the public to connect with and utilize the resource. It defines visual corridor areas around sitting spaces to enhance the visual access to the river. All of these are specific goals highlighted in the recommendations for management to improve public access.

Sedimentation

The project improves water quality and proposes several LID practices that capture sediment before it has the opportunity to enter the river. The Low Impact Development Master Design Certificate Review From was completed and attached as **Appendix A**. More specifics related to each of the ten individual practices can be found in the **Stormwater Analysis and Drainage Report.**

7.0 COASTAL HAZARD APPLICATION

The RI CRMC Coastal Hazard Application Worksheet was completed and is submitted as **Appendix D**. The Worksheet was completed as a guide to maximize the project's resiliency to the impacts of climate change – specifically the effects of flooding and tidal changes related to sea level rise. The project proposes street a retrofit to accommodate multiple modes of travel by adding an urban trail, and in doing so will include depaving, GSI, and tree planting to reduce the effects of localized flooding and improve water quality. There are no existing or proposed building structures, marshes, wells, or septic systems within the project limit of work. Except for two proposed kayak/non-motorized boat launches, the entirety of the project is located within existing City streets, or City property and above current and future high tide elevation.

The project is proposed within a highly urban and currently disturbed setting and proposes improvements that will improve resiliency compared to the existing condition. There are not other alternatives to achieve the goals of this project; in fact, significant additional resources have been devoted to specifically address resiliency objectives and provide public benefit. A design life of 50 years (design life year is 2070) was utilized for the analysis to be conservative. Even with this relatively conservative design life, the streets within the limit of work will not be inundated. Existing drainage and sewer infrastructure within the corridor will likely be challenged by sea level rise in the future, which is outside the scope of this project except for the improvements provided by proposed depaving, GSI, and planting as noted.

The two proposed non-motorized boat launches have been sited to minimize impact as summarized in previous sections of this report. Their design is adaptable to daily tidal fluctuations and should continue to fulfill their intended function within their design life. As sea level rises access to the river can be provided at different points along the ramps. The ramps are designed to withstand daily tide and potential impacts within the floodway above current high tide, and will therefore continue do so

(with typical routine maintenance as required) as high tide levels rises over time. Minor adjustments may be necessary over the long-term.

APPENDIX A

LID Design Certificate & Narrative

CRMC
COASTAL RESOURCES MANAGEMENT COUNCIL

Low Impact Development Master Design Certificate Review Form

I Richard A. Claytor, Jr., P.E. certify that I have reviewed site plans for the
Print or type name here
Woonasquatucket River Greenway, Providence RI, and that it incorporates
Project name and location
Low Impact Development (LID) techniques to the maximum extent practicable as required in Section 150.1(b) of the CRMC Urban Coastal Greenways policy, and in accordance with the CRMC *Urban Coastal Greenways Design Manual*.

Please list the type and location of each LID practice as shown on the site plans (use additional sheets if necessary):

1. 10 Bioretention Practices, located and numbers as listed on attached sheet
2.
3.
4.
5.

IMPORTANT: Please attach a narrative on a separate sheet(s) describing each type of LID practice and the reasoning as to why it was chosen for the particular site application. Be sure to describe depth to groundwater, site limitations, brownfield contamination issues (if applicable), and the proposed maintenance schedule for each type of LID technique.

My Low Impact Development Master Design Certificate number is 1106017
Print certificate # here

(Signature) (Date) January 26, 2022

This form must be completed and attached with all new project applications submitted within the Metro Bay Region SAMP. New applications submitted without this completed form and attachment(s) will be deemed incomplete.

Woonasquatucket River Greenway
LID Master Design Certificate Review Narrative

1.0 DESIGN APPROACH

The overall design approach for the Woonasquatucket River Greenway utilized LID site-planning strategies by integrating simple, nonstructural methods into the site wherever possible, and utilizing green stormwater infrastructure (GSI) practices as design elements to control stormwater at the source. This strategy resulted in extensive tree planting and bioretention practices incorporated throughout the length of the project.

2.0 BIORETENTION AREAS

The main Low Impact Design (LID) practices proposed for the Woonasquatucket River Greenway project are bioretention pockets. The practices are located at the following stations:

1. Bioretention 3A: Station 601+90 to 602+05
2. Bioretention 3B: Station 602+50 to 602+65
3. Bioretention 4: Stations 101+06 to 102+79
4. Bioretention 5: Stations 103+80-104+75
5. Bioretention 6: Stations 106+09 to 106+38
6. Bioretention 11: Stations 119+03 to 119+80
7. Bioretention 12: Stations 120+31 to 121+00
8. Bioretention 15: Stations 122+07to 124+75
9. Bioretention 19A: Stations 305+34 to 305+93
10. Bioretention 19B: Stations 306+04 to 307+37

All 10 of the proposed practices meet the goals of LID methods listed in the Urban Coastal Greenways Design Manual to the maximum extent practicable through several techniques:

1. *Micromanagement and Controlling Stormwater at the Source:* The practices are spread out along the length of the project, making it possible to clean stormwater runoff close to the source.
2. *Simple, Nonstructural Methods:* All stormwater treatment happens on the surface, making it possible to see each practice's function. Additionally, the practices utilize several surface sediment forebays making maintenance spread out and more easily accessible.
3. *Multifunctional Landscape and Infrastructure:* The location of the practices between the multi-use trail and vehicular travel way create a green buffer between trail users and vehicular traffic. Additionally, the native vegetation creates habitat and provides a food source for insects in a highly urbanized area.
4. Drainage / Hydrology as a Design Element: The bioretention pockets are highly visible along the multi-use trail, as well as the runoff route through the Eagle Street Pocket Park. This keeps stormwater as a part of the design and creates an opportunity for education.
5. *Reduce / Minimize total Impervious Area:* The project removes 15,594 SF impervious cover.

The bioretention practice type was selected based on existing site constraints and to meet project goals. The project's location in a dense urban setting meant existing utilities, traffic requirements, and pedestrian circulation were major constraints. Utilizing the above ground practice helped avoid some utilities and served an additional function as a green buffer between pedestrians, bicyclists, and vehicular traffic. Multiple

infrastructure maintenance workshops and site meetings were held with City DPW and Woonasquatucket River Watershed Alliance to review design considerations and maintenance realities.

The majority of the site has contaminated soil due to past land uses. A Remedial Action Work Plan was developed for this project that involves removing and capping contaminated soils including to the full depth of the proposed bioretention media. Additionally, borings were completed on site that found varying soil consistency, and seasonal high groundwater was observed at a minimum 53 inches below grade.

Maintenance for the proposed the biorientation practices is outlined in the Operations & Maintenance Manual and includes the following:

Bioretention Maintenance Schedule		
General Maintenance		
Task	**Frequency**	**Time of the Year**
Site Inspection	Min. once per year & after major storm events.	Spring thru Fall
Debris removal	Min. once per year & after major storm events.	Spring thru Fall
Sediment removal	Min. once per year or when sediment is > 3" in sediment forebay; Ensure sediment does not cause blockage of flume inlet	April
Snake / Flush Underdrain	Min. Once per year	Spring
Plant Maintenance		
Task	**Frequency**	**Time of the Year**
Plant Cutting/Thinning	Annually	Early Spring
Weeding	As needed	April-October
Watering	Drought conditions only	July-August
Plant Replacement	As required	Spring or Fall preferred
Fertilizing	Should not be required	
Mulch	Do not mulch	

APPENDIX B

RIDEM Remedial Approval Letter

RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF LAND REVITALIZATION & SUSTAINABLE MATERIALS MANAGEMENT
235 Promenade Street, Providence, Rhode Island 02908

REMEDIAL APPROVAL LETTER December 6, 2021
File No. SR-28-1991

Jessica Lance, Principal Planner
City of Providence
444 Westminster Street, Suite 3A
Providence, RI 02903

RE: Woonasquatucket River Greenway
Promenade Street & Kinsley Avenue
Providence, Rhode Island

Dear Ms. Lance:

Effective April 22, 2020, the Rhode Island Department of Environmental Management's (the Department) Office of Waste Management has changed the office name to the Office of Land Revitalization and Sustainable Materials Management (LRSMM), as reflected in the re-codified 250-RICR-140-30-1, Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (the Remediation Regulations). The purpose of these regulations is to create an integrated program requiring reporting, investigation, and remediation of contaminated sites in order to eliminate and/or control threats to human health and the environment in a timely and cost-effective manner. A Remedial Approval Letter (RAL) is a document used by the Department to approve remedial actions at contaminated sites that do not involve the use of complex engineered systems or techniques (e.g. groundwater pump and treat systems, soil vapor extraction systems, etc.).

In the matter of the above-referenced property (the Site), the Department's Office of LRSMM is in receipt of the following documentation submitted pursuant to the Remediation Regulations in response to the reported release at the Site:

1. Hazardous Material Release Notification, received by the Department on April 7, 2020, and prepared by the City of Providence;

2. Soil Data Tables and Laboratory Analytical Results, received by the Department on April 7, 2020, and prepared by the City of Providence;

3. Site Investigation Report (SIR), received by the Department on July 24, 2020, and prepared by Civil & Environmental Consultants, Inc. (CEC);

4. SIR Addendum, received by the Department on December 16, 2020, and prepared by CEC;

5. SIR Addendum II, received by the Department on January 29, 2021, and prepared by CEC;

6. SIR Addendum III, received by the Department on March 4, 2021, and prepared by CEC;

7. Post-Site Investigation Public Notice, received by the Department on April 22, 2021, and prepared by CEC and the City of Providence;

8. Remedial Action Work Plan (RAWP), received by the Department on September 24, 2021, and prepared by CEC; and

9. RAWP Addendum, received by the Department on December 3, 2021, and prepared by CEC.

Together these documents fulfill the requirements of Section 1.9 (Risk Management) and Section 1.10 (Remedial Action Work Plan (RAWP)) of the Remediation Regulations.

The preferred remedial alternative involves:

- Excavation and offsite disposal of selective soils at a licensed facility. Confirmatory sampling shall be conducted from the excavation sidewalls and base to verify any remaining soils are compliant with Method 1 Direct Exposure Criteria. Any remaining jurisdictional soils shall be encapsulated by an engineered control.

- Prevention of access to contaminated soils via fencing and/or landscaping in areas where excavation and/or encapsulation of soils is not possible.

- Encapsulation of Site soils by a Department approved engineered control consisting of a minimum of two (2) feet of clean fill or an equivalent level of protection i.e. building foundations, one (1) foot of clean fill over a geotextile fabric, and/or four (4) inches of hardscape (asphalt or concrete) over six (6) inches of clean fill. In areas where encapsulation is impossible, a six (6) foot high fence shall be implemented to prevent access. Areas where fencing is being considered shall be approved by the Department.

- An Environmental Land Usage Restriction (ELUR) shall be recorded on the deed for the entire property. A Class I Survey will be required to determine the extents of the property. The ELUR shall require the performance of annual inspections to document the status of the ELUR and the condition of the engineered controls. The ELUR shall also include a Department-approved post-remediation Soil Management Plan (SMP) which will address any future activities that may disturb on-Site soils. The ELUR shall be recorded for the entire property in the Land Evidence Records for the City of Providence, and a recorded copy forwarded back to the Department within fifteen (15) days of recording.

Based upon review and consideration of the above referenced documents, the Department approves the Remedial Action Work Plan (RAWP) through this RAL provided that:

1. All work must be performed in accordance with all applicable regulations and the Department approved RAWP.

2. Start of the work described in the Department approved RAWP must be initiated within six (6)

months of issuance of this RAL.

3. Prior to initiating any remedial activities, the Department shall be provided with a list of all contractors, and their respective contact information, that will be used on Site to complete the remedial work described in the Department approved RAWP. The Department shall be notified, when feasible, a minimum of five (5) working days in advance of any changes in contractors and/or consultants involved with the remedial work on this Site. The notification must be promptly supplied in writing with complete contact information for each new contractor or consultant (including but not limited to company name and address, contact name and address, contact telephone number and e-mail address).

4. All excavated regulated soil, if not approved for encapsulation onsite, shall be disposed of off-site at an appropriately licensed disposal facility in accordance with all local, State, and Federal laws. Copies of the material shipping records and manifests associated with the disposal of the material shall be included along with the Closure Report.

5. Areas of the site where contaminated soils are to be excavated must be staged and temporarily stored in a designated area, as proposed in the RAWP, of the site with proper polyethylene covers. Any stockpiled materials, including clean fill, must be underlain and covered with polyethylene sheeting and be secured at the end of each day with all appropriate erosion and sediment controls to limit the loss of the cover and protect against storm-water and wind erosion (i.e. hay bales, rocks, silt fencing). These appropriate sedimentation and erosion controls must be in place and in proper working order at all times until all disturbed areas are stabilized and capped as proposed. Within reason, the storage location will be selected to limit the unauthorized access to the materials (i.e. away from public roadways/walkways). No regulated soil will be stockpiled on-site for greater than thirty (30) days. In the event that stockpiled soils pose a risk or threat of leaching hazardous materials, a proper leak-proof container (i.e. drum or lined roll-off) or secondary containment will be required and utilized.

6. The Office of LRSMM no longer requires the submittal of analytical data prior to clean fill being brought to a Site. It is the sole responsibility of the Performing Party and their consultant to analyze the material, certify that the material meets the Department's Residential Direct Exposure Criteria (RDEC), as defined by the Remediation Regulations, for all constituents, and is suitable for use on the Site. The Office of LRSMM strongly suggests that enough representative samples of the clean fill are collected prior to moving the material to the Site to satisfy the Performing Party and their consultant that the material meets the RDEC. Please note that the Office of LRSMM reserves its rights to sample the fill, if suspect, to confirm compliance with the RDEC.

7. All regulated soil remaining onsite shall be encapsulated by an engineered control consistent with those described in the Department approved RAWP.

8. Dust suppression techniques (i.e. watering) must be employed at all times during all soil disturbing/handling activities at the site in order to minimize the generation of fugitive dust.

9. Within sixty (60) days of completion of the work described in the Department approved RAWP, a Closure Report detailing the remedial action and including any disposal documentation shall be

submitted to the Office of LRSMM.

10. Within sixty (60) days of completion of the work described in the Department approved RAWP, the final Department approved ELUR shall be recorded in the City of Providence Land Evidence Records for the property and a stamped, certified copy returned to the Department within fifteen (15) days of recording. Upon receipt of a copy of the recorded (stamped) ELUR, the Office of LRSMM will issue a Letter of Compliance.

11. Following recording of the ELUR, the site shall be maintained and annually inspected to evaluate the compliance status of the site with the ELUR. Within thirty (30) days of each annual inspection, an evaluation report shall be prepared and submitted to the Office of LRSMM detailing the findings of the inspection and noting any compliance violations at the site.

12. Any changes in the activities detailed in the RAWP shall be reported to the Office of LRSMM by telephone within one (1) working day and in writing within five (5) business days.

13. The Office of LRSMM shall be notified forty-eight (48) hours prior to initiating the remedial activities at the site associated with the Department approved RAWP.

14. The Office of LRSMM shall be immediately notified of any site or operation condition that results in non-compliance with this RAL.

At this time, the Office of LRSMM offers its concurrence with the proposed remedial action for the property. The Department approves the RAWP provided that all activities and procedures detailed in the RAWP and RAWP Addendum are strictly adhered to. Furthermore, this letter continues to place primary responsibility for the construction, operation, maintenance, and monitoring of the approved RAWP and its associated implementation on the City of Providence. As the Responsible Party and Performing Party, the City of Providence is expected to implement the RAWP in an expeditious and professional manner that prevents non-compliance with this RAL and said RAWP, and is protective of human health and the environment.

Please note that at this time the Department does not approve the ELUR for recording in the Land Evidence Records with the City of Providence. Please forward an electronic version of the draft ELUR and the post-construction SMP in red line / strikeout format for Department review and approval. The draft ELUR and SMP shall be reviewed and approved by the Department, followed by recording of the approved ELUR, at the completion of all remedial work.

This RAL does not remove your obligation to obtain any other necessary permits from other local, State, or Federal agencies.

If you have any questions regarding this letter or would like the opportunity to meet with Department personnel, please contact me by telephone at (401) 222-2797, ext. 2777105, or by E-mail at Rachel.simpson@dem.ri.gov.

Sincerely,

Rachel T. Simpson
Senior Environmental Scientist
Office of Land Revitalization &
Sustainable Materials Management

Authorized by,

Jeffrey P. Crawford
Principal Environmental Scientist
Office of Land Revitalization &
Sustainable Materials Management

cc: Kelly J. Owens, RIDEM/LRSMM
Joseph Haberek, RIDEM/OWR
Nicholas Pisani, RIDEM/OWR
Molly Cote, Civil & Environmental Consultants, Inc.
Bonnie Nickerson, City of Providence
Martina Haggerty, City of Providence
Francisco Lovera, McMahon Associates
David Reis, Coastal Resources Management Council

APPENDIX C

Product Information & Calculations

Shear Stress Calculation for Vegetated MSE bags
Location: Transect K of FEMA Flood Study
February 2022

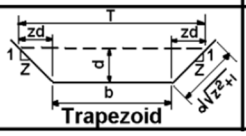
Equation from PADEP ESC Manual:
http://www.depgreenport.state.pa.us/elibrary/GetDocument?docId=7700&DocName=EROSION%20AND%20SEDIMENT%20POLLUTION%20CONTROL%20PROGRAM%20MANUAL.PDF%20%20%3Cspan%20style%3D%22color%3Agreen%3B%22%3E%3C%2Fspan%3E%20%3Cspan%20style%3D%22color%3Ablue%3B%22%3E%3C%2Fspan%3E

T=62.4RS=1.33
T= Mean Boundary Shear (lb/ft^2)
R = A/P = 6.45
P= wetted perimeter=115.26'
S= 0.33% (2'/600' as show on the Flood Profile from the FEMA Flood Study 44007CV001D 07/17/2020)

Transect K:

- Area: 743
- Elevation 7.2 – 1% annual chance flood water surface elevation with floodway

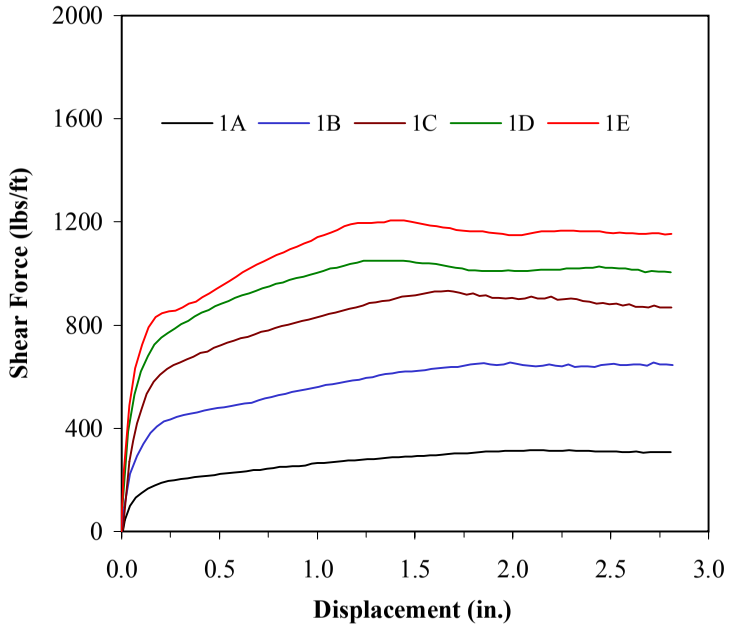
Wetted perimeter=

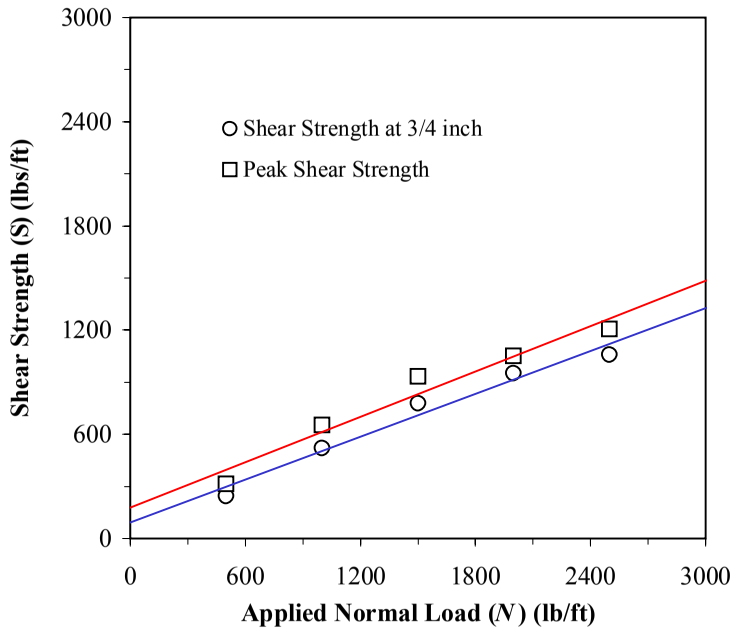
Section	Area a	Wetted Perimeter P	Hydraulic Radius r	Top Width T
	$bd + zd^2$	$b + 2d\sqrt{z^2+1}$	$\frac{bd + zd^2}{b + 2d\sqrt{z^2+1}}$	$b + 2\,zd$

B=83'
D= 7.2'
Z=2 (2:1 slope)

TREXIANA WHOLESALE AND DISTRIBUTION LTD.
BAG TO BAG SHEAR TESTING (ASTM D 6916 MODIFIED)

TEST SERIES NO. 1: Flex MSE GTX bag filled with sand against Flex MSE GTX bags filled with sand with 1 Flex MSE interlocking plate on top of the joint area between two lower bags.





Test No.	Test Specimen Width (in.)	Test Normal Stress (psi)	Equivalent Normal Load (lb/ft)	Shear Load at 3/4" (lbs)	Peak Shear Load (lbs)	Shear Strength at 3/4" (lb/ft)	Peak Shear Strength (lb/ft)	Shear Strength Equations (lb/ft)
1A	26.0	3.5	500	528	683	243	315	
1B	26.0	6.9	1000	1123	1417	518	654	$S_{0.16\text{-in.}} = 90 + (N) \tan(22^\circ)$
1C	26.0	10.4	1500	1688	2022	779	933	
1D	26.0	13.9	2000	2058	2275	950	1050	$S_{peak} = 180 + (N) \tan(24^\circ)$
1E	26.0	17.4	2500	2289	2611	1056	1205	

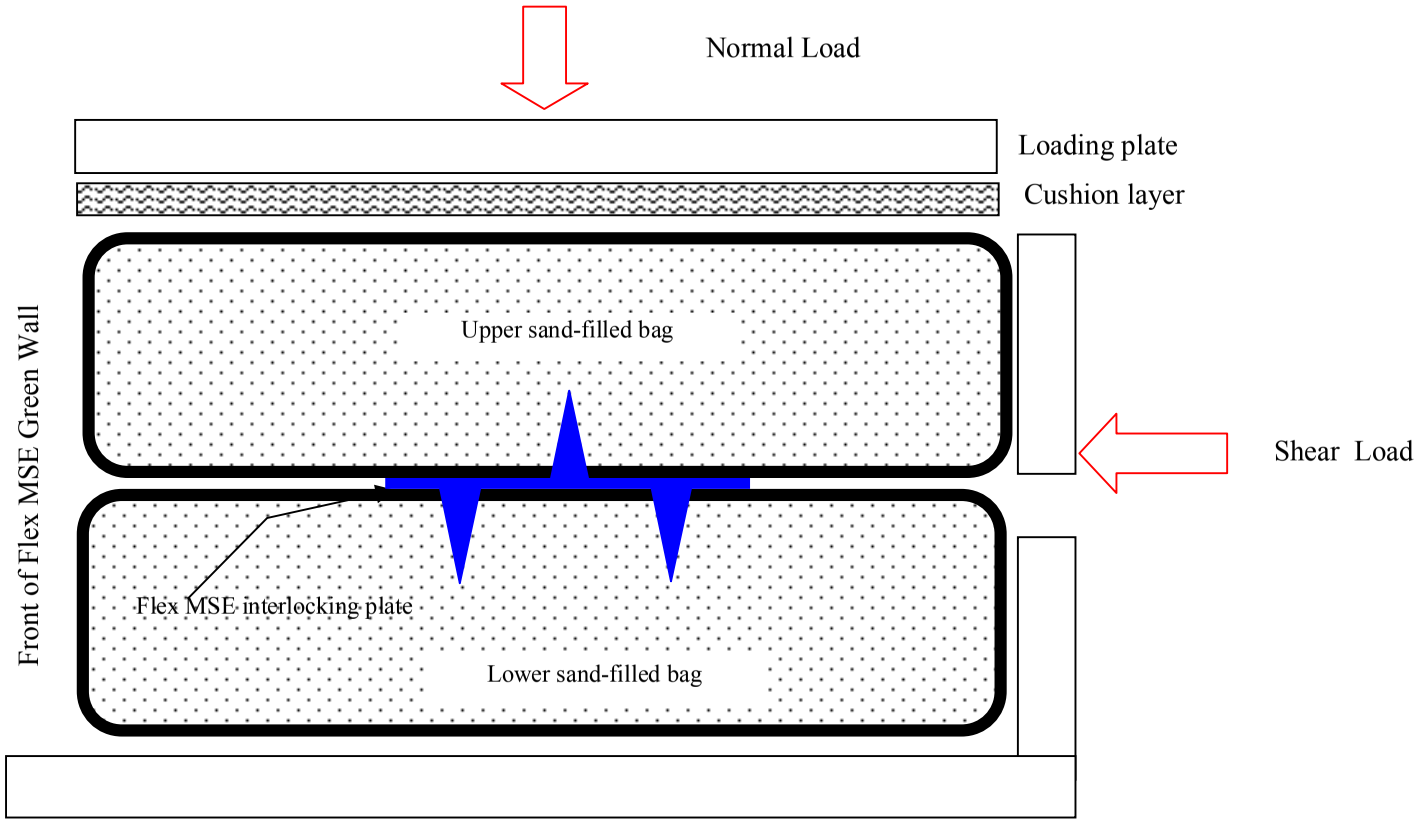
NOTES:

Approximate Dimensions of Sand -Filled Bag:	26" long x 12" wide x 5" high
Weight of Sand-Filled Bag: .	72 lbs
Approx Initial Unit Weight of Sand-Filled Bag:	80 pcf
Failure Mode of Geogrid:	Rotation and rupture of Flex MSE interlocking plate spikes and sliding between bags.

SGI TESTING SERVICES, LLC

DATE REPORTED	12/4/2013
FIGURE NO.	B-1
PROJECT NO.	SGI13040
DOCUMENT NO.	
FILE NO.	

TREXIANA WHOLESALE AND DISTRIBUTION LTD.
SHEAR STRENGTH TESTING
SCHEMATIC DIAGRAM OF SHEAR TEST CROSS-SECTION
(NOTE: NOT TO SCALE)



DATE OF REPORT: 12/4/2013

SGI TESTING SERVICES, LLC

FIGURE NO.	B-2
PROJECT NO.	SGI13040
DOCUMENT NO.	
FILE NO.	

FlexMSE®
Vegetated Wall System

Flex MSE Bag Material ASTM Ratings

This is to certify that Flex MSE Standard Bag Material is a needle-punched nonwoven geotextile composed of new polypropylene fibers, which are formed into a stable network such that the fibers retain their relative position. It is inert to biological degradation and resists naturally encountered chemicals, alkalis, and acids. Flex MSE Standard Material is manufactured in the United States and complies to ARRA Section 1605. NTPEP No. GTX-2012-01-043.

Please note that all values reflect results at the time of manufacturing and shipment.

Flex MSE Vegetated Wall System
12543 24th Ave
Surrey, BC
CANADA
V4A 2E5
www.FlexMSE.com

Mechanical Property	Test Method	M.A.R.V.	
GRAB TENSILE STRENGTH	ASTM D4632	90 lbs	401 N
ELONGATION	ASTM D4632	50 %	
TRAP TEAR	ASTM D4533	40 lbs	178 N
CBR PUNCTURE	ASTM D6241	250 lbs	1113 N
APPARENT OPENING SIZE	ASTM D4751	#50 Sieve	.3 mm
PERMITTIVITY	ASTM D4491	2.00 SEC-1	
WATER FLOW RATE	ASTM D4491	145 gpm/ft2	5907 l/min/m2
UV RESISTANCE @ 1000 HOURS	ASTM 4355*	MD 75 % - XD 94%	
BREAKING FORCE & ELONGATION	ASTM D5035	MD 75 % - XD 94 %	
MASS/UNIT WEIGHT	ASTM D5261	3.7 oz/yd2	124 g/m2

***ASTM D4355 tested at 1,000 hours of Peak UV**

LONGEVITY AND DURABILITY OF THE FLEX MSE SYSTEM

The Flex MSE System is designed to provide a permanent vegetated solution in soil retention and slope stability applications. In ideal conditions, the Flex MSE System is designed to meet project design life criteria of 120 years where full vegetated cover, screening all potential UV exposure, is achieved within 1,000 hours of Peak UV exposure after installation. The geotextiles used in the construction of a Flex MSE wall comply with all the relevant American Standards for Testing and Materials (ASTMs). These include:

ASTM 4355 UV Exposure

ASTM D4751, D4491 Drainage and Filtration

ASTM D5035 Standard Test Method for Breaking Force and Elongation of Textile Fabrics

ASTM D4595, D5262 Reinforcement

ASTM D4632, D4533, D4833 Long Term Design (survivability)

The face of the Flex MSE system is designed to become vegetated within one growing season. When it is first built, a growing medium is applied to the face protecting the geotextile bags from the elements. Once the vegetation becomes established, vegetation foliage protects the face while the vegetation root structure increases the system's structural strength.

Soils used for growing medium in the Flex MSE Bag Structure must be of reasonable quality to sustain and nurture vegetation.

Specific questions should be directed to Flex MSE at **by email to: info@FlexMSE.com**

www.FlexMSE.com

High Performance Erosion Control

Flexterra® HP-FGM™

Profile®

THE 5 Fundamentals For Sustainable Vegetation™

Profile's 5 Fundamentals are the Foundation to Sustainable Vegetation

Establishing sustainable vegetation and receiving the earliest possible Notice of Termination (NOT) are the goals of every project. Profile's 5 Fundamentals are the surest way to get you there. Picking the right erosion control material like Flexterra® HP-FGM™ is just one of the 5 steps.

1. Assess and Create Optimal Soil Conditions

Soil testing provides essential information to determine what soil amendments, if any, are required to assure a more favorable growing environment for faster, more complete vegetative growth and sustainable establishment.

2. Pick the Right Plant Species

It is essential to select plant species that are adapted to the site conditions.

3. Select the Correct Erosion Control Material

The right cover protects both seed and soil, and facilitates growth. Flexterra HP-FGM is unsurpassed in delivering outstanding performance.

4. Ensure Proper Installation

Products must be installed in accordance with manufacturer recommendations to maximize their performance.

5. Follow-up Inspections and Maintenance Practices

Continual monitoring ensures all site compliance issues are being addressed. Maintenance may be required to mitigate unexpected challenges.

Profile provides valuable assistance for each of these Fundamentals 24/7—beginning with FREE soil testing. Visit profileps3.com.

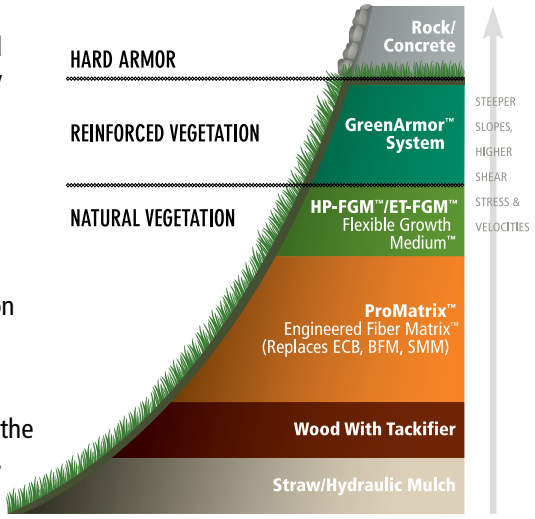
FLEXTERRA® HP-FGM™

Absolutely the Most Effective Erosion Control Medium Available

Flexterra® HP-FGM™ stands alone as the ultimate erosion control and revegetation product. Fine grading and extensive soil preparation are unnecessary, allowing you to apply the product for immediate protection and superior performance at reduced overall costs.

Flexterra HP-FGM Delivers:

- The highest germination and growth establishment of any rolled or other hydraulically applied erosion control product available
- Greater than 99% erosion control effectiveness immediately upon application
- 100% biodegradable
- Non-toxic and safe for even the most sensitive environments

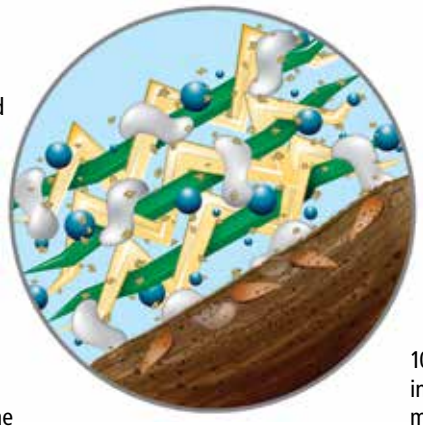


Superior erosion control across Profile's spectrum of products ensures reliable, sustainable solutions for slopes, channels, shorelines, water management projects, pipeline restorations, waste and fly ash containment sites, fine turf areas and other environmentally sensitive sites.

Patented Technologies and Greener Components Deliver Unmatched Performance

Flexterra HP-FGM combines both chemical and mechanical bonding techniques to lock the engineered medium in place and promote accelerated germination with minimal soil loss. Greener from the inside out, here's what makes it work so well:

Revolutionary patented Micro-Pore particles optimize water and nutrient retention



100% non-toxic biopolymers and water absorbents enhance erosion control resistance and growth establishment

100% recycled, virgin Thermally Refined® wood fibers produce the highest yield and coverage per unit weight, and are phyto-sanitized, eliminating weed seeds and pathogens

100% biodegradable interlocking fibers increase mechanical bonding of the matrix to provide immediate performance upon installation

A Closer Look at Micro-Pore Particles and Thermally Refined® Wood Fibers

- Micro-Pore particles capture and hold moisture and nutrients, reduce soil surface evaporation and improve oxygen exchange, which all contribute to faster, more uniform vegetation establishment.
- Micro-Pore particles also increase bond strength of the flexible growth medium, resulting in greater resistance to raindrop impact and sheet flow.

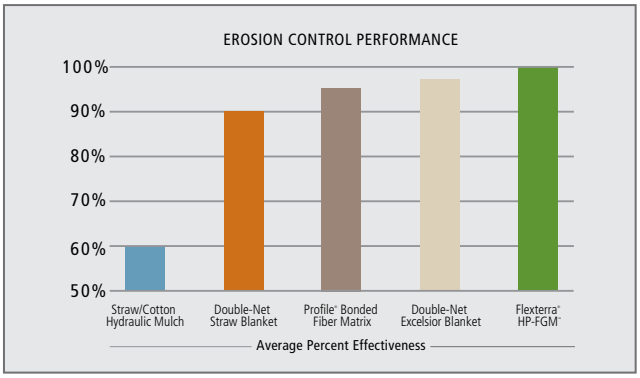
Fibers magnified 45 times by independent lab specializing in fiber analysis.

Inferior wood fibers magnified 45 times.

- 100% recycled, Thermally Refined® virgin wood chips create fine, long and highly absorbent fibers that deliver superior yield, coverage and water-holding capacity.
- Competitive refining technologies develop inferior fibers that require more bales to achieve the coverage of Profile's Thermally Refined wood fiber matrices. Additionally, claims that competitive mulches save or use less water during application just don't hold water.

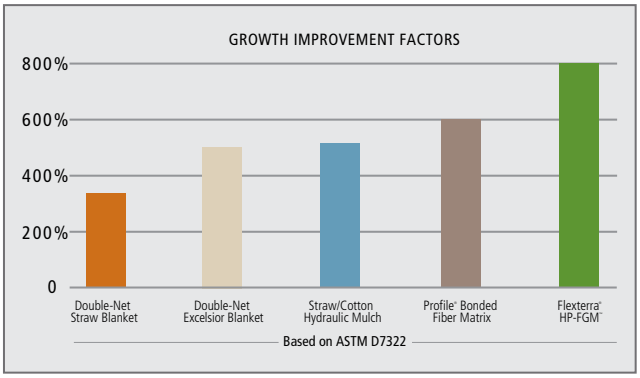
Nothing Keeps More Soil On Site

Flexterra® HP-FGM™ has demonstrated nearly perfect erosion control performance — even on slopes as severe as 0.25H:1V. In addition to minimizing soil loss, the turbidity of runoff is greatly reduced. In large scale testing, Flexterra HP-FGM reduced effluent turbidity of sandy loam soils to less than 250 Nephelometric Turbidity Units (NTUs).



Establishes Vegetation More Reliably

Quicker and complete establishment is the key to long-term erosion control. Flexterra HP-FGM has recorded the highest growth establishment rating of any erosion control product in independent laboratory testing using standard test method ASTM D7322.

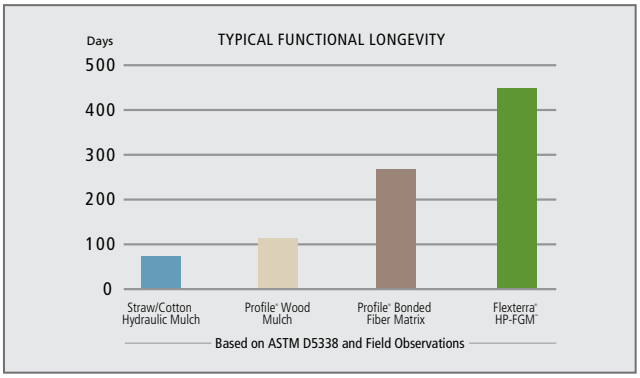


The First Erosion Control Product to Offer Documented Functional Longevity

ASTM D5338 testing protocol confirms Flexterra HP-FGM's observed functional longevity of up to 18 months. Flexterra HP-FGM is proven to last longer than other hydraulically applied erosion control products.

Long-lasting Flexterra HP-FGM is designed to:

- **Provide protection on bare soil over periods of dormancy;** assures that when more optimal growing conditions arrive, the seed and nutrients are still in place and in an environment conducive to rapid germination and emergence.
- **Increase survivability of plants;** exceptional water retention nurtures vegetation to better withstand environmental stress.
- **Accommodate a broad range of vegetative species;** safeguards and helps to cultivate even the slowest establishing species.



Flexterra® HP-FGM™ Technical Data:

	TEST METHOD	UNITS	TESTED VALUE
PHYSICAL PROPERTIES*			
Mass/Unit Area	ASTM D6566[1]	g/m² (oz/yd²)	≥ 390 (11.6)
Thickness	ASTM D6525[1]	mm (in)	≥ 5.6 (0.22)
Ground Cover	ASTM D6567[1]	%	≥ 99
Water-Holding Capacity	ASTM D7367	%	≥ 1,700
Material Color	Observed	n/a	Green
ENVIRONMENTAL PROPERTIES*			
Biodegradability	ASTM D5338	n/a	Yes
Ecotoxicity	EPA 2021.0	%	48-hr LC_{50} > 100%
Effluent Turbidity	Large Scale[5]	NTU	< 250
PERFORMANCE PROPERTIES*			
Cover Factor[2]	Large Scale[5]	n/a	≤ 0.01
Percent Effectiveness[3]	Large Scale[5]	%	≥ 99
Functional Longevity[4]	ASTM D5338	months	≤ 18
Cure Time	Observed	hours	0-2
Vegetation Establishment	ASTM D7322[1]	%	≥ 800
PRODUCT COMPOSITION			**TYPICAL VALUE**
Thermally Processed[6] (within a pressurized vessel) 100% Recycled Virgin Wood Fibers			80%
Wetting agents (including high-viscosity colloidal polysaccharides, cross-linked biopolymers, and water absorbents)			10%
Crimped Biodegradable Interlocking Fibers			5%
Micro-Pore Granules			5%

** When uniformly applied at a rate of 3,500 lb/ac (3,940 kg/ha) under laboratory conditions.*

1. *ASTM test methods developed for Rolled Erosion Control Products that have been modified to accommodate Hydraulic Erosion Control Products.*
2. *Cover Factor is calculated as soil loss ratio of treated surface versus an untreated control surface.*
3. *Percent Effectiveness = One minus Cover Factor multiplied by 100%.*
4. *Functional Longevity is the estimated time period, based upon field observations, that a material can be anticipated to provide erosion control and agronomic benefits as influenced by composition, as well as site-specific conditions, including; but not limited to—temperature, moisture and light conditions, soils, biological activity, vegetative establishment and other environmental factors.*
5. *Large Scale testing conducted at Utah Water Research Laboratory. For specific testing information, please contact a Profile technical service representative at 800-508-8681 (US and Canada) or International - +1-847-215-1144.*
6. *Heated to a temperature greater than 380 degrees Fahrenheit (193 degrees Celsius) for 5 minutes at a pressure greater than 50 psi (345 kPa).*

GREEN DESIGN ENGINEERING™
EARTH-FRIENDLY SOLUTIONS FOR SUSTAINABLE RESULTS™

Green Design Engineering™ is a holistic approach, combining environmentally beneficial design and ecologically sound products with agronomic and erosion control expertise, to provide the most effective, customized and cost-efficient solutions for erosion control and vegetative establishment.

PS³ PROFILE SOIL SOLUTIONS SOFTWARE

PS³, Profile's unique online project design and management software, is the best place to start applying The 5 Fundamentals™ to your next project. The process begins with a FREE soil test, and walks you through every Fundamental. It's the only program of its kind that integrates and compares a variety of technologies to your specific project parameters, and provides complete documentation including product specifications, installation guidelines, CAD details and other pertinent technical information. Get started by visiting **ProfilePS3.com**.

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MUSCLE WALL®
FLOOD • CONTAINMENT • STORMWATER

MUSCLE WALL FM APPROVED

MUSCLE WALL® × FM APPROVED

FLOOD • CONTAINMENT • STORMWATER

Muscle Wall is pleased to announce that we have recently been awarded FM Approval, as well as a Certificate of Compliance of all testing by The United States Army Corps of Engineers for 2-foot, 3-foot, and 4-foot Muscle Wall products.

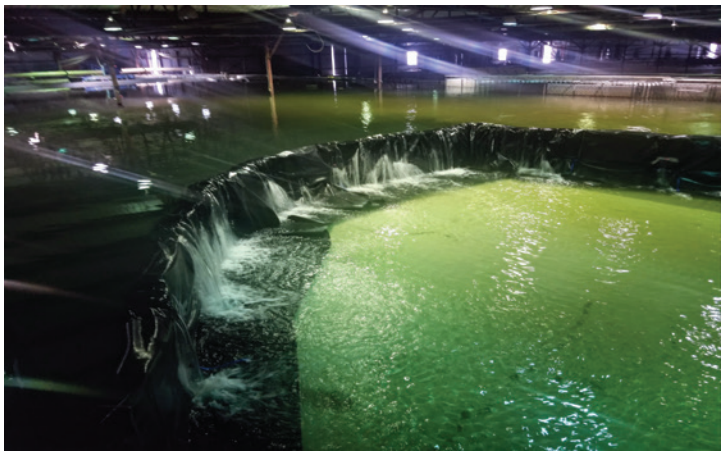
Muscle Wall is the only product on the market to receive FM Approval by USACE for a flood control barrier at 4 feet high.

US Army Corp of Engineers

USACE LAB, VICKSBURG, MS

FM Approvals is an international leader in third-party testing and certification services. They test property loss prevention products and services—for use in commercial and industrial facilities—to verify they meet rigorous loss prevention standards of quality, technical integrity and performance. They do so by employing a worldwide certification process backed by scientific research, testing, and over a century of experience.

phone | 435.213.9253 email | info@musclewall.com web | musclewall.com address | 675 N 600 W Ste. 1 Logan, UT 84321



Series of Rigorous Testing

USACE LAB, VICKSBURG, MS

1. Time of Assembly

Total assembly time was monitored by FM Approval reps from start to finish, noting all tools and equipment required for full installation.

2. Hydrostatic Tests

One foot depth - seepage & movement
Two foot depth - seepage & movement
100% depth - seepage & movement

3. Hydrodynamic Tests

Low water, small waves
Low water, medium waves
Low water, large waves
High water, small waves
High water, medium waves
High water, large waves
Overtopping

4. Debris Impact Tests

12"x10' log (610lbs dry) - 5mph
16.5"x10' log (790lbs dry) - 5mph

5. Riverine Current Test

7 ft/sec channel flow velocity for one hour

6. Post Hydrostatic Test

100% depth - seepage & movement

The FM APPROVED mark is recognized and respected worldwide. This certification is the gold standard in which engineering firms and insurance companies place their trust, and instills confidence and commands respect in the marketplace.

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APPENDIX D

CRMC Building Official Form

T

Coastal Resources Management Council
4808 Tower Hill Road Suite 3
Wakefield, RI 02879
Phone: (401) 783-3370

CRMC

FROM: Building Official DATE: July 13, 2021

SUBJ: Application of: Woonasquatucket River Greenway Project

Location: Along the Woonasquatucket River on Promenade St., Providence Place & Kinsley Ave from Providence Place Mall to Eagle Street and Kinsley intersection.

Address: Promenade St to Kinsley St Plat No. N/A Lot No. Public R.O.W.

To Construct: A Multi-use trail connecting the Woonasquatucket Trail to downtown with two pocket parks, kayak launches, green infrastructure and associated traffic amenities

I hereby certify that I have reviewed _____ foundation plan(s).
_____ plan(s) for entire structure
__X__ site plans
Titled: Plan of Proposed, Woonasquatucket River Greenway 30% Plans

Date of Plan (last revision): February 2021

__X__ and find that the issuance of a local building permit is not required as in accordance with Section _____ of the Rhode Island State Building Code.

____ and find that the issuance of a local building permit is required. I hereby certify that this permit shall be issued once the applicant demonstrates that the proposed construction/activity fully conforms to the applicable requirements of the RISBC.

____ and find that a Septic System Suitability Determination (SSD) must be obtained from the RI Dept. of Environmental Management.

____ and find that a Septic System Suitability Determination (SSD) need not be obtained from the RI Dept. of Environmental Management.

____ and find that said plans conform with all elements of the zoning ordinance, and that if said plans require zoning board approval, that the applicant has secured such approval and that the requisite appeal period has passed with no appeal filed or appeal is final. The Zoning Board approval shall expire on _____.

7/14/21
Building Official's Signature Date

__X__ and find that said plans conform with all elements of the zoning ordinance, and that if said plans require zoning board approval, that the applicant has secured such approval and that the requisite appeal period has passed with no appeal filed or appeal is final.

7/14/21
Zoning Officer's Signature Date

rev. 5/11/2001

APPENDIX E

Coastal Hazard Application Worksheet

RECEIVED
FEB. 8, 2022
COASTAL RESOURCES MANAGEMENT COUNCIL

CRMC File Number:

RI CRMC COASTAL HAZARD APPLICATION WORKSHEET

APPLICANT NAME: Horsley Witten Group

PROJECT SITE ADDRESS: Woonasquatucket River Greenway, Providence

STEP 1. PROJECT DESIGN LIFE

☐ A. For properties in a FEMA-designated **A** or **X** Zone, provide the first floor elevation (FFE) of the proposed structure referenced to NAVD88, **OR**
For properties in a FEMA-designated **V** or **Coastal A** Zone, please provide the elevation of the lowest horizontal structural member (LHSM) referenced to NAVD88.

FFE n/a **ft**

OR

LHSM elevation **ft**

☐ B. How long do you want your project to last? Identify the expected design life for the project (CRMC recommends a **minimum of 30 years**)

Design Life: 50 **yrs**

☐ C. Add the number of years you identified in 1B to the current year. (For example, if you are completing this form in the year 2020, and you want your project to last 30 years, your design life year will be 2050.)

Design Life Year: 2070

☐ D. **CHECK** beneath the sea level rise (SLR) projection that matches or comes closest to project design life year.

Year	2020	2030	2040	2050	2060	2070	2080	2090	2100
SLR	1.05	1.67	2.33	3.25	4.20	5.35	6.69	8.14	9.61
	○	○	○	○	○	◉	○	○	○

Source: Sea Level Rise (SLR) Projections (Feb. 2017). NOAA High Curve, 83% Confidence Interval. Newport, RI Tide Gauge. All values are expressed in feet relative to NAVD88. http://www.corpsclimate.us/ccaceslcurves.cfm

NOTE: The STORMTOOLS sea level rise scenarios depict how high the water will be above the average height of the daily high tide over the 19-year period between 1983 and 2001. There have been between 4 and 5 inches of sea level rise in Rhode Island since then. The higher modeled water level accounts for the uncertainties in ice sheet and ocean dynamics.

STEP 2. SITE ASSESSMENT

☐ A. Open *RICRMC Coastal Hazard Mapping Tool*. Following the tutorial along the left side of the screen, enter the project site address and turn on the sea level layer closest to the number you circled in 1D.

☐ B. **ENTER** the STORMTOOLS SLR map layer closest to the SLR value you checked in Step 1D above. If the value falls between the available STORMTOOLS SLR map layers, round up to the closest of these sea level rise (SLR) numbers: 1ft, 2ft, 3ft, 5ft, 7ft, 10ft, or 12ft

5 **ft**

☐ C. Does the STORMTOOLS SLR map layer you circled above expose your project site to future tidal inundation? **CHECK YES or NO**

○ **YES**
◉ **NO**

☐ D. List any **roads or access routes** that are potentially inundated from SLR. To do this, ZOOM OUT from your project location, change BASEMAP on the viewer to "street view" – see Step 2A.

None

*****Please be advised that CRMC staff may also review the implications of sea level rise in combination with nuisance storm flooding and discuss these potential project concerns with the applicant. Nuisance flooding impacts may be viewed in STORMTOOLS here.***

STEP 3. STORMTOOLS DESIGN ELEVATION (SDE)

☐ A. Based on the project location, CHECK the SDE Viewer for your site, and open the corresponding tab in Mapping Tool:

○ **South Coast SDE Viewer: Napatree to Pt. Judith** ○ **Narragansett Bay SDE Viewer: North and East of Pt. Judith**

☐ B. Follow the tutorial included along the left panels of the viewer to enter the address of your project site. Select the tab across the top that corresponds to the sea level rise projection you identified in STEP 1

☐ C. Click on the map at project site to identify **STORMTOOLS Design Elevation (SDE)** from the pop up box. **Enter the SDE value:** N/A **ft**

RI CRMC COASTAL HAZARD APPLICATION WORKSHEET

STEP 4. SHORELINE CHANGE

A. Using the *CRMC Shoreline Change maps*, indicate the transect number closest to your site, and erosion rate listed for that transect.

Transect Number: N/A

Erosion Rate: N/A **ft/year**

B. **CHECK** below the Projected Erosion Rate that corresponds to the design life you identified above.

Year	2050	2060	2070	2080	2090	2100
Projected Future Erosion Multiplier	1.34	1.45	1.57	1.70	1.84	2.00
	○	○	◉	○	○	○

Source: Projected Shoreline Change Rate multipliers. (Oakley et al., 2016)

C. **COMPLETE EROSION SETBACK CALCULATION:**

Historic shoreline change rate, STEP 4A		Design Life, STEP 1C		Projected Future Erosion Multiplier, STEP 4B		Erosion Setback (ft) 4A x 1C x 4B
	X		X		=	N/A

NOTE: *Setbacks are required per the CRMC Red Book, Section 1.1.9.* ***A minimum setback of 50-feet is required****, but a greater setback may be necessary and/or desirable based on this analysis.*

STEP 5. CERI & OTHER SITE CONSIDERATIONS

A. If you live in a community where a Coastal Environmental Risk Index (CERI) has been completed (Barrington, Bristol, Charlestown, Narragansett, South Kingstown, Warren, Warwick, Westerly), CHECK the level of projected damage to your location, as indicated on the map that corresponds to the design life identified in STEP 1.

CERI Level:	Moderate	High	Severe	Extreme	Inundated by 2100	Not applicable
	○	○	○	○	○	◉

B. Consider and discuss with your design consultant other forces or factors that might impact the development, such as coastal habitats, shoreline features, public access, wastewater, storm water, depth to water table/groundwater dynamics, saltwater intrusion, or other issues not listed above. In addition, pressure from rising sea levels will result in rising subsurface groundwater levels ultimately effecting wells and septic systems.

STEP 6. LARGE PROJECTS

This step is for Large Projects and Subdivisions only, six (6) or more units, as defined by the CRMC Red Book Section 1.1.6.I(1)(f). This step may be skipped for other projects.

A. Use the Sea Level Affecting Marshes Model (SLAMM) Maps to assess potential impacts to large projects and subdivisions from salt marsh migration resulting from projected sea level rise. CRMC SLAMM maps can be accessed here.

○ **YES** ◉ **NO**

The CRMC recommends using the 5-foot SLR projection within SLAMM to assess future potential project impacts on migrating marshes. Does the SLAMM map that corresponds to the design life you identified in STEP 1 expose your project site to future salt marsh migration? **CHECK YES or NO**

STEP 7: DESIGN EVALUATION

A. Using Chapter 7 of the RI Shoreline Change SAMP as a guide, investigate mitigation options for the exposure identified above and include that in the final application.

This fully completed Coastal Hazard Application Guidance worksheet must accompany the application. If you are a design or engineering professional, please print and sign here that you have discussed the findings of this worksheet with the Owner.

DESIGN/ENGINEER SIGNATURE: _____ **DATE:** 7/13/24

OWNER'S SIGNATURE: _____ **DATE:**

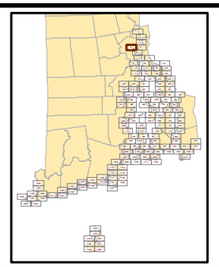
STORMTOOLS for Beginners

How does SEA LEVEL RISE affect my property?

Use these maps to turn on/off individual layers to visualize the potential impacts from storm events and sea level rise.

600ft

Map 4



N

1:10,000

0 500 1,000 1,500 2,000 Feet

This map is not the product of a professional land survey. It was created for general reference, informational, planning, and guidance use, and is not a legally authoritative source as to the location of natural or manmade features. No warranty is expressed or implied, related to the spatial accuracy, reliability, completeness, or currentness of this map.

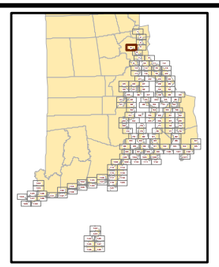
- Developed Upland
- Undeveloped Upland
- Rocky Intertidal
- Beach
- Tidal Flat
- Open Water
- Swamp
- Tidal Creek
- Salt Marsh
- Brackish Marsh
- Scrub/Shrub Transitional Marsh
- Fresh Marsh
- Hardened Shores
- Buildings
- Parcel Boundaries

Tidal Marsh Vulnerability Analysis: Current Condition

NOAA grant award #: NA12OAR4310108

Map produced by Kevin Ruddock. 4/2/2014

Map 4



N

1:10,000

0 500 1,000 1,500 2,000 Feet

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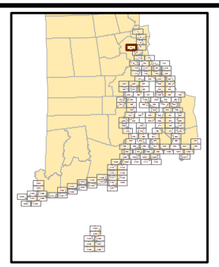
- Potential Marsh Zone
- Persistent Marsh Zone
- Potential Marsh Loss
- Open Water and Tidal Flat
- Current Fresh Wetlands
- Protected Open Space
- Hardened Shores
- Buildings
- Parcel Boundaries
- Developed Land
- CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: One Foot Sea Level Rise Model

NOAA grant award #: NA120AR4310108

Map produced by Kevin Ruddock. 4/1/2014

Map 4



N

1:10,000

0 500 1,000 1,500 2,000 Feet

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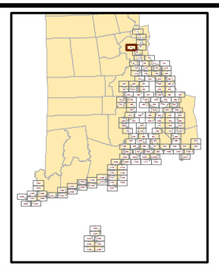
- Potential Marsh Zone
- Persistent Marsh Zone
- Potential Marsh Loss
- Open Water and Tidal Flat
- Current Fresh Wetlands
- Protected Open Space
- Hardened Shores
- Buildings
- Parcel Boundaries
- Developed Land
- CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: Three Foot Sea Level Rise Model

NOAA grant award #: NA120AR4310108

Map produced by Kevin Ruddock. 4/1/2014

Map 4



N

1:10,000

0 500 1,000 1,500 2,000 Feet

This map is not the product of a professional land survey. It was created for general reference, informational, planning, and guidance use, and is not a legally authoritative source as to the location of natural or manmade features. No warranty is expressed or implied, related to the spatial accuracy, reliability, completeness, or currentness of this map.

- Potential Marsh Zone
- Persistent Marsh Zone
- Potential Marsh Loss
- Open Water and Tidal Flat
- Current Fresh Wetlands
- Protected Open Space
- Hardened Shores
- Buildings
- Parcel Boundaries
- Developed Land
- CRMC Coastal Barriers

Tidal Marsh Vulnerability Analysis: Five Foot Sea Level Rise Model

NOAA grant award #: NA12OAR4310108

Map produced by Kevin Ruddock. 4/1/2014

APPENDIX F

List of Abutting Property Owners

Notification: Property Owners
Project: Woonasquatucket River Greenway

Plat	Lot	Unit	Address	Zip Code	Owner Name	Owner Address	City	State	Zip Code
27	16		350 Kinsley Ave	2901	Jacob Licht Inc	765 WESTMINSTER ST	PROVIDENCE	RI	02903-4018
27	16		350 Kinsley Ave	2901	Jacob Licht Inc	765 WESTMINSTER ST	PROVIDENCE	RI	02903-4018
27	260		501 Valley St	2909	Associates LLC Valley Street	235 Promenade St, Suite 100	Providence	RI	2908
67	551		295 Promenade St	2908	Foundry Lot Five Associates LLC	235 PROMENADE ST	PROVIDENCE	RI	02908-5760
27	8		431 Harris Ave	2909	Freedom City Properties LLC		North Quincy	MA	2171
27	8		431 Harris Ave	2909	Freedom City Properties LLC		North Quincy	MA	2171
67	539		297 Promenade St	2908	Foundry Parcel Six Associates Llc	235 PROMENADE ST	PROVIDENCE	RI	02908-5760
27	5		340 Kinsley Ave	2909	Jacob Licht Inc	765 WESTMINSTER ST	PROVIDENCE	RI	02903-4018
65	934		25 Eagle St	2909	Brady Sullivan Butcher Block Mill LLC	670 Commercial St., Suite 303	Manchester	NH	3101
65	934		25 Eagle St	2909	Brady Sullivan Butcher Block Mill LLC	670 Commercial St., Suite 303	Manchester	NH	3101
26	388		2 Harris Ave		Shops at Providence Place LLC	1414 Atwood Ave	Johnston	RI	2919
27	269		286 Kinsley Ave	2909	LLC OGN	1140 Reservoir Ave	Cranston	RI	2920
4	253		235 Promenade St	2908	FOUNDRY PARCEL FIFTEEN ASSOCIATES LLC	235 PROMENADE ST.,STE 100 ST	PROVIDENCE	RI	2908
4	253		235 Promenade St	2908	FOUNDRY PARCEL FIFTEEN ASSOCIATES LLC	235 PROMENADE ST.,STE 100 ST	PROVIDENCE	RI	2908
67	534		80 West Park	2908	Foundry Development Associates LLC	235 PROMENADE ST	PROVIDENCE	RI	02908-5760
27	88		459 Promenade St	2901	Paul Cuffee School	459 Promenade St	Providence	RI	2903
27	88		459 Promenade St	2901	Paul Cuffee School	459 Promenade St	Providence	RI	2903
27	88		459 Promenade St	2901	Paul Cuffee School	459 Promenade St	Providence	RI	2903
27	88		459 Promenade St	2901	Paul Cuffee School	459 Promenade St	Providence	RI	2903
27	88	00TX	459 Promenade St	2901	Paul Cuffee School	459 Promenade St	Providence	RI	2903
27	88	00TX	459 Promenade St	2901	Paul Cuffee School	459 Promenade St	Providence	RI	2903
27	88	00TX	459 Promenade St	2901	Paul Cuffee School	459 Promenade St	Providence	RI	2903
67	540		80 West Park	2908	Foundry Parcel Eight Associates LLC	235 PROMENADE ST	PROVIDENCE	RI	02908-5760
67	541		301 Promenade St	2908	FOUNDRY PARCEL EIGHT ASSOCIATES LLC	235 PROMENADE ST	PROVIDENCE	RI	02908-5734
67	402		373 Promenade St	2903	Williams Communications Inc	1025 ELDORADO Blvd	BROOMFIELD	CO	80021
27	87		35 Hemlock St	2909	Narragansett Bay Commission	One Service Rd	Providence	RI	2905
27	87		35 Hemlock St	2909	Narragansett Bay Commission	One Service Rd	Providence	RI	2905
27	87		35 Hemlock St	2909	Narragansett Bay Commission	One Service Rd	Providence	RI	2905
26	367	107	1000 Providence Pl Unit 107		Jones Johnathon Williams	1000 Providence Pl	Providence	RI	2903
26	367	112	1000 Providence Pl Unit 112		Nguyen Linh N	1000 Providence Place	Providence	RI	2903
26	367	125	1000 Providence Pl Unit 125		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	140	1000 Providence Pl Unit 140		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	149	1000 Providence Pl Unit 149		Weisman Lynn	903 Providence Pl	Providence	RI	2903
26	367	162	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	181	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	206	1000 Providence Pl		Abrahams Casey	1000 Providence Pl	Providence	RI	2903
26	367	216	1000 Providence Pl		Foy Rachel H	1000 Providence Pl	Providence	RI	2903
26	367	225	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	235	1000 Providence Pl		Eng Calvin Joey	189 Dahlgren Pl	Brooklyn	NY	11228
26	367	241	1000 Providence Pl		Gaudet Robert C	1000 Providence Pl	Providence	RI	2903
26	367	248	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	252	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	262	1000 Providence Pl		Abrahams Heather P	1000 Providence Pl	Providence	RI	2903
26	367	263	1000 Providence Pl		Dowling James F	1 Symphony Dr	Franklin	MA	2038
26	367	269	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	282	1000 Providence Pl		Li Yanan	1000 Providence Pl	Providence	RI	2903
26	367	304	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	314	1000 Providence Pl		Karamchedu Naga Padmini	1000 Providence Pl	Providence	RI	2903
26	367	330	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	337	1000 Providence Pl		Morano Jillyan	1000 Providence Pl	Providence	RI	2903
26	367	344	1000 Providence Pl		Nan Timothy	1000 Providence Pl	Providence	RI	2903
26	367	350	1000 Providence Pl		Huebner Mattias	903 Providence Pl	Providence	RI	2903
26	367	357	1000 Providence Pl		Tam Christopher SK	1020 Yates Way	San Mateo	CA	94403
26	367	364	1000 Providence Pl		Rubin Diane G Trustee	56 POINT ROK Dr	WORCESTER	MA	1604
26	367	372	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	377	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	381	1000 Providence Pl		Watson Mary-Rose	1000 Providence Pl	Providence	RI	2903
26	367	405	1000 Providence Pl		Yoon Hyejin	903 Providence Pl	Providence	RI	2903
26	367	421	1000 Providence Pl		Casanova Francis	1000 Providence Pl	Providence	RI	2903
26	367	425	1000 Providence Pl		Legmann Raviv	1000 Providence Pl	Providence	RI	2903
26	367	431	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	436	1000 Providence Pl		Wallace Joseph	1000 Providence Pl	Providence	RI	2903
26	367	442	1000 Providence Pl		Sharma Dharm	400 East 77th St	New York	NY	10075
26	367	460	1000 Providence Pl		Selvaraj Vijairam	1000 Providence Pl	Providence	RI	2903
26	367	462	1000 Providence Pl		Thompson Janet P	1000 Providence Pl	Providence	RI	2903
26	367	472	1000 Providence Pl		Dickerman Jane	903 Providence Pl	Providence	RI	2903
26	367	478	1000 Providence Pl		Butler Roberta H Trustee	1000 Providence Pl	Providence	RI	2903
26	367	481	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P440	1000 Providence Pl		Vessenes Peter M	7935 Stone Creek Dr	Chanhassen	MN	55317
26	367	P502	1000 Providence Pl		Pappas George S	903 Providence Place	Providence	RI	2903
26	367	P506	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P509	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P510	1000 Providence Pl		Connelly Robert Jeff	903 Providence Pl	Providence	RI	2903
26	367	P522	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P523	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P529	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P532	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P537	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P547	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P556	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P562	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P570	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	S115	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	S314	1000 Providence Pl		Bresler Alexander Trustee	120 POND St	OSTERVILLE	MA	2655
26	367	S319	1000 Providence Pl		Thompson John	903 Providence Pl	Providence	RI	2903
26	367	S320	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903

Abutting Property Owners
Project: Woonasquatucket River Greenway

Plat	Lot	Unit	Address	Zip Code	Owner Name	Owner Address	City	State	Zip Code
26	367	S327	1000 Providence Pl		Rubin Diane G Trustee	56 POINT ROK Dr	WORCESTER	MA	1604
26	367	S401	1000 Providence Pl		Caprio Alicia	1000 Providence Pl	Providence	RI	2903
26	367	113	1000 Providence Pl Unit 113		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	116	1000 Providence Pl Unit 116		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	129	1000 Providence Pl Unit 129		CAMACHO NELSON	PO Box 431	Auburn	MA	1501
26	367	138	1000 Providence Pl Unit 138		Lopez Marcelo Martin	903 Providence Pl	Providence	RI	2903
26	367	150	1000 Providence Pl Unit 150		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	157	1000 Providence Pl		Zander Danielle K	1000 Providence Pl	Providence	RI	2903
26	367	178	1000 Providence Pl		An Juyoung	1000 Providence Pl	Providence	RI	2903
26	367	185	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	187	1000 Providence Pl		Vernon Charles H	1000 Providence Pl	Providence	RI	2903
26	367	207	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	212	1000 Providence Pl		Shen Yifei	1000 Providence Pl	Providence	RI	2903
26	367	221	1000 Providence Pl		Bae Jongyoon	1000 Providence Pl	Providence	RI	2903
26	367	222	1000 Providence Pl		Buckley Steven G	50 Old Quarry Rd	Wrentham	MA	2093
26	367	239	1000 Providence Pl		Nolan Steven R	903 Providence Pl	Providence	RI	2903
26	367	242	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	277	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	283	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	286	1000 Providence Pl		Ganti Latha	903 Providence Pl	Providence	RI	2903
26	367	305	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	308	1000 Providence Pl		Silvia Corey	1000 Providence Pl	Providence	RI	2903
26	367	309	1000 Providence Pl		Chitikela Lakshmi Narayana Sanjeev	1000 Providence Pl	Providence	RI	2903
26	367	310	1000 Providence Pl		Kwong Cindy	1000 Providence Pl	Providence	RI	2903
26	367	322	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	327	1000 Providence Pl		Sharma Meera	1000 Providence Pl	Providence	RI	2903
26	367	329	1000 Providence Pl		D'Ambrosco Michael	1000 Providence Pl	Providence	RI	2903
26	367	347	1000 Providence Pl		Terentieva Alla	1000 Providence Pl	Providence	RI	2903
26	367	348	1000 Providence Pl		McKenna Gerard E II	903 Providence Pl	Providence	RI	2903
26	367	367	1000 Providence Pl		Lucky888 LLC	1000 Providence Pl	Providence	RI	2903
26	367	368	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	380	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	408	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	409	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	410	1000 Providence Pl		Cosgrove Jennifer L	1000 Providence Pl	Providence	RI	2903
26	367	429	1000 Providence Pl		Horowitz Steven	6 Damian Ct	North Providence	RI	2911
26	367	440	1000 Providence Pl		Seidl Lawrence	1000 Providence Pl	Providence	RI	2903
26	367	476	1000 Providence Pl		Thompson John	903 Providence Pl	Providence	RI	2903
26	367	479	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	484	1000 Providence Pl		Martel Daniel P	23 Fisherman Rd	Fairhaven	MA	2719
26	367	485	1000 Providence Pl		Greene Cody	1000 Providence Pl	Providence	RI	2903
26	367	P320	1000 Providence Pl		Jaramillo Cesar Mora	1000 Providence Pl	Providence	RI	2903
26	367	P448	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P487	1000 Providence Pl		Nolan Steven R	903 Providence Pl	Providence	RI	2903
26	367	P508	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P519	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P526	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P542	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P545	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P553	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P554	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P559	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P567	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P568	1000 Providence Pl		Wheeler James R III	903 Providence Pl	Providence	RI	2903
26	367	S111	1000 Providence Pl		Caprio Alicia	1000 Providence Pl	Providence	RI	2903
26	367	S112	1000 Providence Pl		Colaluca Joseph	903 Providence Pl	Providence	RI	2903
26	367	S225	1000 Providence Pl		Benedetti Bridget E	903 Providence Pl	Providence	RI	2903
26	367	S313	1000 Providence Pl		Jaramillo Cesar Mora	1000 Providence Pl	Providence	RI	2903
26	367	S425	1000 Providence Pl		D'Ambrosco Christine M	903 Providence Pl	Providence	RI	2903
26	367	S430	1000 Providence Pl		Hanley Michael J	1000 Providence Pl	Providence	RI	2903
26	367	109	1000 Providence Pl Unit 109		Zeng Binqian	1000 Providence Pl	Providence	RI	2903
26	367	110	1000 Providence Pl Unit 110		Marciano Anthony R Jr	1000 Providence Pl	Providence	RI	2903
26	367	114	1000 Providence Pl Unit 114		Teixeira Gilbert	1000 Providence Pl	Providence	RI	2903
26	367	119	1000 Providence Pl Unit 119		Szychulda Brent Allen	1000 Providence Pl	Providence	RI	2903
26	367	127	1000 Providence Pl Unit 127		Donohue Derek Thomas	903 Providence Pl	Providence	RI	2903
26	367	136	1000 Providence Pl Unit 136		Dias Joao F	1000 Providence Pl	Providence	RI	2903
26	367	142	1000 Providence Pl Unit 142		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	152	1000 Providence Pl Unit 152		Woghiren-Shames Kevin Osayuwamen	1000 Providence Pl	Providence	RI	2903
26	367	155	1000 Providence Pl		Robinson Cynthia L	903 Providence Pl	Providence	RI	2903
26	367	163	1000 Providence Pl		Flats LLC Pvd	1301 Atwood Ave	Johnston	RI	2919
26	367	169	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	204	1000 Providence Pl		Angelo John Gilbert	903 Providence Pl	Providence	RI	2903
26	367	208	1000 Providence Pl		Lemus Mauricio	903 Providence Pl	Providence	RI	2903
26	367	214	1000 Providence Pl		Rodio Stephen A	2139 Broad St	Cranston	RI	2905
26	367	223	1000 Providence Pl		Brosco Gian	11035 Lavander Hill Dr	Las Vegas	NV	
26	367	237	1000 Providence Pl		Sidd Sarah Brieanne	1000 Providence Pl	Providence	RI	2903
26	367	247	1000 Providence Pl		Libby Thomas H	1000 Providence Pl	Providence	RI	2903
26	367	259	1000 Providence Pl		Benedetti Bridget E	903 Providence Pl	Providence	RI	2903
26	367	260	1000 Providence Pl		Clevy Matthew A	1000 Providence Pl	Providence	RI	2903
26	367	279	1000 Providence Pl		Payumo Angela	1000 Providence Pl	Providence	RI	2903
26	367	280	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	287	1000 Providence Pl		Kant Rajeev Josef	1000 Providence Pl	Providence	RI	2903
26	367	302	1000 Providence Pl		Jain Prateek	903 Providence Pl	Providence	RI	2903
26	367	306	1000 Providence Pl		Boyd Marc I	903 Providence Pl	Providence	RI	2903
26	367	312	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	319	1000 Providence Pl	2903	Marr Edwin L Jr	19 Linden Ln	Rehoboth	MA	2769
26	367	324	1000 Providence Pl		Rodio Stephen A	2139 Broad St	Cranston	RI	2905

Abutting Property Owners
Project: Woonasquatucket River Greenway

Plat	Lot	Unit	Address	Zip Code	Owner Name	Owner Address	City	State	Zip Code
26	367	325	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	339	1000 Providence Pl		Lahoud Brandon	1000 Providence Pl	Providence	RI	2903
26	367	342	1000 Providence Pl		Castrichini Brain	1000 Providence Pl	Providence	RI	2903
26	367	359	1000 Providence Pl		Michael V Bonin	44 Oak St	Mansfield	MA	2048
26	367	366	1000 Providence Pl		Pesare Anthony G	1000 Providence Pl	Providence	RI	2903
26	367	370	1000 Providence Pl		Lyerly Reece Cameron	903 Providence Pl	Providence	RI	2903
26	367	379	1000 Providence Pl		Dworkin Stacey L	1000 Providence Pl	Providence	RI	2903
26	367	403	1000 Providence Pl		Rodriguez, Co-Tr Victoria	1000 Providence Pl	Providence	RI	2903
26	367	413	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	420	1000 Providence Pl		Shu Huntern	1000 Providence Pl	Providence	RI	2903
26	367	427	1000 Providence Pl		Boulanger Amy	1000 Providence Pl	Providence	RI	2903
26	367	438	1000 Providence Pl		Brown Bryce M	903 Providence Pl	Providence	RI	2903
26	367	103	1000 Providence Pl Unit 0103		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	105	1000 Providence Pl Unit 105		Bucchanio Sabrina	1000 Providence Pl	Providence	RI	2903
26	367	120	1000 Providence Pl Unit 120		Leather Joseph R	903 Providence Pl	Providence	RI	2903
26	367	122	1000 Providence Pl Unit 122		Westcott Julia	730 Kingstown Rd	Wakefield	RI	2879
26	367	131	1000 Providence Pl Unit 131		Farley Patrick	903 Providence Pl	Providence	RI	2903
26	367	133	1000 Providence Pl Unit 133		Goman Tatyana	1000 Providence Pl	Providence	RI	2903
26	367	145	1000 Providence Pl Unit 145		Field Donna May	903 Providence Pl	Providence	RI	2903
26	367	147	1000 Providence Pl Unit 147		Ringland Scott	PO Box 19199	Johnston	RI	2919
26	367	159	1000 Providence Pl		Mustang LLC	192 Poppasquash Rd	Bristol	RI	2809
26	367	160	1000 Providence Pl		Haley Leslie L	903 Providence Pl	Providence	RI	2903
26	367	171	1000 Providence Pl		Durand Christopher	1000 Providence Pl	Providence	RI	2903
26	367	201	1000 Providence Pl		Hong Mihee	1000 Providence Pl	Providence	RI	2903
26	367	218	1000 Providence Pl		Katz Joshua M	1000 Providence Pl	Providence	RI	2903
26	367	227	1000 Providence Pl		Shim Anthony	903 Providence Pl	Providence	RI	2903
26	367	229	1000 Providence Pl		Stephenson Raymond	903 Providence Pl	Providence	RI	2903
26	367	230	1000 Providence Pl		Harney Jeanette M	1000 Providence Pl	Providence	RI	2903
26	367	232	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	244	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	250	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	254	1000 Providence Pl		Cottrell Thompson Jennifer Lynn	1000 Providence Pl	Providence	RI	2903
26	367	256	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	267	1000 Providence Pl		Frank Matthew J	1000 Providence Pl	Providence	RI	2903
26	367	270	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	276	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	316	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	318	1000 Providence Pl		Brook Brian C	1000 Providence Pl	Providence	RI	2903
26	367	320	1000 Providence Pl		Latta Timothy D	1000 Providence Pl	Providence	RI	2903
26	367	333	1000 Providence Pl		Bresler Alexander Trustee	120 POND St	OSTERVILLE	MA	2655
26	367	335	1000 Providence Pl		Worrell Dwain	5460 White Oak Ave	Encino	CA	91316
26	367	340	1000 Providence Pl		Chua Baldwin	903 Providence Pl	Providence	RI	2903
26	367	352	1000 Providence Pl		Abroguena John Paul A	903 Providence Pl	Providence	RI	2903
26	367	354	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	361	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	362	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	373	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	375	1000 Providence Pl		Paton Kimberly	33-11 Broadway	Fair Lawn	NJ	7410
26	367	386	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	416	1000 Providence Pl		Tjitra Lidya	903 Providence Pl	Providence	RI	2903
26	367	418	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	423	1000 Providence Pl		Robinson David S	903 Providence Pl	Providence	RI	2903
26	367	432	1000 Providence Pl		Coughlin Andrew J	903 Providence Pl	Providence	RI	2903
26	367	434	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	447	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	449	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	456	1000 Providence Pl		Realty LLC Raps	499 Washington St	Auburn	MA	1501
26	367	458	1000 Providence Pl		D'Ambrosco Christine M	903 Providence Pl	Providence	RI	2903
26	367	464	1000 Providence Pl		Loureiro Manuel III	1000 Providence Pl	Providence	RI	2903
26	367	466	1000 Providence Pl		Foley Jennifer L	1000 Providence Pl	Providence	RI	2903
26	367	470	1000 Providence Pl		Paskauskas Gedas A	1000 Providence Pl	Providence	RI	2903
26	367	P202	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P474	1000 Providence Pl		Cosgrove Jennifer L	1000 Providence Pl	Providence	RI	2903
26	367	P484	1000 Providence Pl		Bucchanio Sabrina	1000 Providence Pl	Providence	RI	2903
26	367	P493	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P498	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P500	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P512	1000 Providence Pl		Shen Yifei	1000 Providence Pl	Providence	RI	2903
26	367	P514	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P527	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P534	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P536	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P551	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P561	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	S124	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	S202	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	S207	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	S209	1000 Providence Pl		Wolfe Alan	903 Providence Pl	Providence	RI	2903
26	367	S210	1000 Providence Pl		Bae Jongyoon	1000 Providence Pl	Providence	RI	2903
26	367	S226	1000 Providence Pl		Schmidt Jeanne M For Life	903 Providence Pl	Providence	RI	2903
26	367	S305	1000 Providence Pl		Georgieva Irina	1000 Providence Pl	Providence	RI	2903
26	367	S306	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	S322	1000 Providence Pl		Sabet Kathleen	1000 Providence Pl	Providence	RI	2903
26	367	S324	1000 Providence Pl		Tam Christopher SK	1020 Yates Way	San Mateo	CA	94403
26	367	S331	1000 Providence Pl		Rana Maheen A	1000 Providence Pl	Providence	RI	2903
26	367	S427	1000 Providence Pl		Casanova Francis	1000 Providence Pl	Providence	RI	2903
26	367	106	1000 Providence Pl Unit 106		Connelly Stephanie C	903 Providence Pl	Providence	RI	2903

Abutting Property Owners
Project: Woonasquatucket River Greenway

Plat	Lot	Unit	Address	Zip Code	Owner Name	Owner Address	City	State	Zip Code
26	367	108	1000 Providence Pl Unit 108		Rodio Stephen A	2139 Broad St	Cranston	RI	2905
26	367	130	1000 Providence Pl Unit 130		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	153	1000 Providence Pl Unit 153		Leung Eric K	1000 Providence Pl	Providence	RI	2903
26	367	154	1000 Providence Pl Unit 154		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	161	1000 Providence Pl		Bisciotti Nicholas J	1000 Providence Pl	Providence	RI	2903
26	367	179	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	180	1000 Providence Pl		Stucker Richard Trustee	1000 Providence Pl	Providence	RI	2903
26	367	182	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	184	1000 Providence Pl		Soltani Melody X	903 Providence Pl	Providence	RI	2903
26	367	213	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	215	1000 Providence Pl		Magee Kevin	903 Providence Pl	Providence	RI	2903
26	367	224	1000 Providence Pl		Char Harvey T Trustee	50 Summerfield Dr	Uxbridge	MA	1569
26	367	226	1000 Providence Pl		Brian Rosemarie P	903 Providence Pl	Providence	RI	2903
26	367	249	1000 Providence Pl		Schmidt Jeanne M For Life	903 Providence Pl	Providence	RI	2903
26	367	251	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	253	1000 Providence Pl		Kluk Matthew A Trustee	1000 Providence Pl	Providence	RI	2903
26	367	271	1000 Providence Pl		Ho Ding	1000 Providence Pl	Providence	RI	2903
26	367	281	1000 Providence Pl		Cortellessa John Paul III	903 Providence Pl	Providence	RI	2903
26	367	301	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	303	1000 Providence Pl		Rossi Nolan McHale	1000 Providence Pl	Providence	RI	2903
26	367	311	1000 Providence Pl		Jaramillo Cesar Mora	1000 Providence Pl	Providence	RI	2903
26	367	317	1000 Providence Pl		Rabinovitz Peter Zev	1000 Providence Pl	Providence	RI	2903
26	367	323	1000 Providence Pl		Champoax Andrea	1000 Providence Pl	Providence	RI	2903
26	367	326	1000 Providence Pl		McNeill Kia	1000 Providence Pl	Providence	RI	2903
26	367	331	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	332	1000 Providence Pl		Phal Saroeuth	1000 Providence Pl	Providence	RI	2903
26	367	338	1000 Providence Pl		Koo Austin Nash	1000 Providence Pl	Providence	RI	2903
26	367	363	1000 Providence Pl		Marzocchi Vincent Peter Jr	1000 Providence Pl	Providence	RI	2903
26	367	365	1000 Providence Pl		Rana Maheen A	1000 Providence Pl	Providence	RI	2903
26	367	415	1000 Providence Pl		Ogert Robert A	903 Providence Pl	Providence	RI	2093
26	367	422	1000 Providence Pl		Lewis Patti J	903 Providence Pl	Providence	RI	2903
26	367	428	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	430	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	437	1000 Providence Pl		Dooley Patricia A	1000 Providence Pl	Providence	RI	2903
26	367	439	1000 Providence Pl		Rogers Lindsay	1000 Providence Pl	Providence	RI	2903
26	367	450	1000 Providence Pl		Kapp Matthew M	7348 Elmridge Dr	Dallas	TX	75240
26	367	459	1000 Providence Pl		Patel Mitul T	137 Stratford Ct	Hollidaysburg	PA	16648
26	367	463	1000 Providence Pl		Flats LLC Pvd	1301 Atwood Ave	Johnston	RI	2919
26	367	465	1000 Providence Pl		Lallo Tara L	1000 Providence Pl	Providence	RI	2903
26	367	471	1000 Providence Pl		Santoro Gale	903 Providence Pl	Providence	RI	2903
26	367	473	1000 Providence Pl		Shtayermman Oren	903 Providence Pl	Providence	RI	2903
26	367	480	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	482	1000 Providence Pl		Summers Adrian B	903 Providence Pl	Providence	RI	2903
26	367	P078	1000 Providence Pl		Caprio Alicia	1000 Providence Pl	Providence	RI	2903
26	367	P473	1000 Providence Pl		Shah Ankur D	903 Providence Pl	Providence	RI	2903
26	367	P488	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P501	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P503	1000 Providence Pl		LLC Friar 903	50 Liberty Dr	Boston	MA	2210
26	367	P518	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P531	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P535	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	444	1000 Providence Pl		Crudup Jeffrey M	2 1/2 Colonial St	Charlestown	SC	29401
26	367	451	1000 Providence Pl		Lemoine Evan A	1000 Providence Pl	Providence	RI	2903
26	367	453	1000 Providence Pl		Wong Tin Lai	1000 Providence Pl	Providence	RI	2903
26	367	474	1000 Providence Pl		Flynn-Tabloff Adam	1000 Providence Pl	Providence	RI	2903
26	367	483	1000 Providence Pl		Santana Jennifer D	903 Providence Pl	Providence	RI	2903
26	367	P194	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P318	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P489	1000 Providence Pl		Benkhart Priscilla	1000 Providence Pl	Providence	RI	2903
26	367	P490	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P504	1000 Providence Pl		Leary Daniel M	1000 Providence Pl	Providence	RI	2903
26	367	P515	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P517	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P530	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P539	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P540	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P549	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P555	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P558	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P564	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P572	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	S113	1000 Providence Pl		Lyerly Reece Cameron	903 Providence Pl	Providence	RI	2903
26	367	S219	1000 Providence Pl		Crosby Judith Y	903 Providence Pl	Providence	RI	2903
26	367	S220	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	S223	1000 Providence Pl		Char Harvey T Trustee	50 Summerfield Dr	Uxbridge	MA	1569
26	367	S302	1000 Providence Pl		Thompson Janet P	1000 Providence Pl	Providence	RI	2903
26	367	S309	1000 Providence Pl		Carr Erin Elizabeth	91 Willow Winds Pky	SAINT JOHNS	FL	32259
26	367	S317	1000 Providence Pl		Rogers Lindsay	1000 Providence Pl	Providence	RI	2903
26	367	S329	1000 Providence Pl		Dworkin Stacey L	1000 Providence Pl	Providence	RI	2903
26	367	S330	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	S411	1000 Providence Pl		Mosquera Juan Miguel	2323 31ST Ave	Astoria	NY	11106
26	367	S418	1000 Providence Pl		Dooley Patricia A	1000 Providence Pl	Providence	RI	2903
26	367	115	1000 Providence Pl Unit 115		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	128	1000 Providence Pl Unit 128		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	139	1000 Providence Pl Unit 139		Fedo John	1000 Providence Pl	Providence	RI	2903
26	367	148	1000 Providence Pl Unit 148		Gallucci Ruth	1000 Providence Pl	Providence	RI	2903
26	367	151	1000 Providence Pl Unit 151		Salter Jason	1000 Providence Pl	Providence	RI	2903

Abutting Property Owners
Project: Woonasquatucket River Greenway

Plat	Lot	Unit	Address	Zip Code	Owner Name	Owner Address	City	State	Zip Code
26	367	156	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	177	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	186	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	209	1000 Providence Pl		Cassidy Schreck Margaret Rose	1000 Providence Place	Providence	RI	2903
26	367	210	1000 Providence Pl		O'leary Jr Stephen	1000 Providence Pl	Providence	RI	2903
26	367	211	1000 Providence Pl		Bachand Belinda K	903 Providence Pl	Providence	RI	2903
26	367	220	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	238	1000 Providence Pl		Benkhart Priscilla	1000 Providence Pl	Providence	RI	2903
26	367	243	1000 Providence Pl		Crosby Judith Y	903 Providence Pl	Providence	RI	2903
26	367	264	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	265	1000 Providence Pl		Dowling James F	1 Symphony Dr	Franklin	MA	2038
26	367	278	1000 Providence Pl		903 LLC	100 Westminster St	Providence	RI	2903
26	367	284	1000 Providence Pl		McCormick Colleen Mercer	903 Providence Pl	Providence	RI	2903
26	367	285	1000 Providence Pl		Goulet Andrea J	1000 Providence Pl	Providence	RI	2903
26	367	307	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	313	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	321	1000 Providence Pl		Carr Erin Elizabeth	91 Willow Winds Pky	SAINT JOHNS	FL	32259
26	367	328	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	336	1000 Providence Pl		Meier Reid Stephen	1000 Providence Pl	Providence	RI	2903
26	367	346	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	349	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P538	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P541	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	S116	1000 Providence Pl		Field Donna May	903 Providence Pl	Providence	RI	2903
26	367	S123	1000 Providence Pl		Salter Jason	1000 Providence Pl	Providence	RI	2903
26	367	S125	1000 Providence Pl		Robinson David S	903 Providence Pl	Providence	RI	2903
26	367	S203	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	S211	1000 Providence Pl		Rodio Stephen A	2139 Broad St	Cranston	RI	2905
26	367	S325	1000 Providence Pl		Staples John C	1000 Providence Pl	Providence	RI	2903
26	367	S326	1000 Providence Pl		Therrien Ann-Marie	903 Providence Pl	Providence	RI	2903
26	367	S328	1000 Providence Pl		Abroguena John Paul A	903 Providence Pl	Providence	RI	2903
26	367	S407	1000 Providence Pl		Cohen Pauline E Trustee	903 Providence Pl	Providence	RI	2903
26	367	S409	1000 Providence Pl		Sharma Dharm	400 East 77th St	New York	NY	10075
26	367	S420	1000 Providence Pl		Vessenes Peter M	7935 Stone Creek Dr	Chanhassen	MN	55317
26	367	369	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	406	1000 Providence Pl		Cho Jessica	903 Providence Pl	Providence	RI	2903
26	367	407	1000 Providence Pl		Caprio Alicia	1000 Providence Pl	Providence	RI	2903
26	367	419	1000 Providence Pl		Lee Yoojin	1000 Providence Pl	Providence	RI	2903
26	367	426	1000 Providence Pl		Georgieva Irina P	1000 Providence Pl	Providence	RI	2903
26	367	441	1000 Providence Pl		Carmichael Samuel John	1000 Providence Pl	Providence	RI	2903
26	367	475	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	486	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P486	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P505	1000 Providence Pl		Sharma Meera	1000 Providence Pl	Providence	RI	2903
26	367	P507	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P520	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P524	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P525	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P543	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P552	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P566	1000 Providence Pl		Dias Joao F	1000 Providence Pl	Providence	RI	2903
26	367	P569	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	S110	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	S224	1000 Providence Pl		Henry Kevin	903 Providence Pl	Providence	RI	2903
26	367	S312	1000 Providence Pl		Morano Jillyan	1000 Providence Pl	Providence	RI	2903
26	367	S318	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	S424	1000 Providence Pl		Kapp Matthew M	7348 Elmridge Dr	Dallas	TX	75240
26	367	S431	1000 Providence Pl		Abrahams Heather P	1000 Providence Pl	Providence	RI	2903
26	367	102	1000 Providence Pl Unit 0102		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	104	1000 Providence Pl Unit 104		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	121	1000 Providence Pl Unit 121		Peciokas Radvydas	1000 Providence Pl	Providence	RI	2903
26	367	123	1000 Providence Pl Unit 123		Hannon John Trustee	18 Eagles Nest Ridge	Salem	NH	3079
26	367	132	1000 Providence Pl Unit 132		Munoz Jorge A	1000 Providence Pl	Providence	RI	2903
26	367	134	1000 Providence Pl Unit 134		Reinhard Kurt B	1000 Providence Pl	Providence	RI	2903
26	367	144	1000 Providence Pl Unit 144		Smith Patrick	1000 Providence Pl	Providence	RI	
26	367	146	1000 Providence Pl Unit 146		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	158	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	170	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	176	1000 Providence Pl		Nugent Daniel	903 Providence Pl	Providence	RI	2903
26	367	202	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	217	1000 Providence Pl		Gearin Victoria	1000 Providence Pl	Providence	RI	2903
26	367	219	1000 Providence Pl		Wolfe Alan	903 Providence Pl	Providence	RI	2903
26	367	228	1000 Providence Pl		Golini Deana	903 Providence Pl	Providence	RI	2903
26	367	231	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	233	1000 Providence Pl		Harvey Timothy J	1000 Providence Pl	Providence	RI	2903
26	367	245	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	255	1000 Providence Pl		Zgodic Igor	1000 Providence Pl	Providence	RI	2903
26	367	257	1000 Providence Pl		Aponte Evan A	37 Lake Ter	Sparta	NJ	7871
26	367	268	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	315	1000 Providence Pl		Rosenberg Nicole Rene	1000 Providence Pl	Providence	RI	2903
26	367	334	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	341	1000 Providence Pl		Verdier Michael G	1000 Providence Pl	Providence	RI	2903
26	367	353	1000 Providence Pl		Huang Che-Chou Tomson Trustee	903 Providence Pl	Providence	RI	2903
26	367	355	1000 Providence Pl		Sabet Kathleen	1000 Providence Pl	Providence	RI	2903
26	367	360	1000 Providence Pl		LLC Friar 903	50 Liberty Dr	Boston	MA	2210
26	367	374	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	376	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903

Abutting Property Owners
Project: Woonasquatucket River Greenway

Plat	Lot	Unit	Address	Zip Code	Owner Name	Owner Address	City	State	Zip Code
26	367	383	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	385	1000 Providence Pl		Mistikawy Hany	6 Rader Ct	Portsmouth	RI	2871
26	367	401	1000 Providence Pl		Cohen Pauline E Trustee	903 Providence Pl	Providence	RI	2903
26	367	411	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	417	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	424	1000 Providence Pl		Kazakiewich Todd A	1000 Providence Pl	Providence	RI	2903
26	367	433	1000 Providence Pl		Liu Jerome	903 Providence Pl	Providence	RI	2903
26	367	435	1000 Providence Pl		Leary Daniel M	1000 Providence Pl	Providence	RI	2903
26	367	446	1000 Providence Pl		Baran Onur	903 Providence Pl	Providence	RI	2903
26	367	448	1000 Providence Pl		Therrien Ann-Marie	903 Providence Pl	Providence	RI	2903
26	367	455	1000 Providence Pl		Mosquera Juan Miguel	2323 31ST Ave	Astoria	NY	11106
26	367	457	1000 Providence Pl		Shiao Jeffrey	1000 Providence Pl	Providence	RI	2903
26	367	467	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	469	1000 Providence Pl		Sinel Daniel	1000 Providence Pl	Providence	RI	2903
26	367	P072	1000 Providence Pl		Caprio Alicia	1000 Providence Pl	Providence	RI	2903
26	367	P475	1000 Providence Pl		Baker Gary R	903 Providence Pl	Providence	RI	2903
26	367	P485	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P492	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P494	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P497	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P499	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P511	1000 Providence Pl		Castrichini Brain	1000 Providence Pl	Providence	RI	2903
26	367	P513	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P528	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P533	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P560	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P574	1000 Providence Pl		Donohue Derek Thomas	903 Providence Pl	Providence	RI	2903
26	367	S126	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	S201	1000 Providence Pl		Bisciotti Nicholas J	1000 Providence Pl	Providence	RI	2903
26	367	S227	1000 Providence Pl		Giovanni Lucia D	903 Providence Pl	Providence	RI	2903
26	367	S229	1000 Providence Pl		Robinson Cynthia L	903 Providence Pl	Providence	RI	2903
26	367	S231	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	S307	1000 Providence Pl		Latta Timothy D	1000 Providence Pl	Providence	RI	2903
26	367	S310	1000 Providence Pl		Marr Edwin L Jr	19 Linden Ln	Rehoboth	MA	2769
26	367	S323	1000 Providence Pl		Sandell Elizabeth A	1000 Providence Pl	Providence	RI	2903
26	367	S332	1000 Providence Pl		Cosgrove Jennifer L	1000 Providence Pl	Providence	RI	2903
26	367	S432	1000 Providence Pl		Tanadi Jesen	903 Providence Pl	Providence	RI	2903
26	367	101	1000 Providence Pl Unit 0101		Shinde Hetashri	1000 Providence Pl	Providence	RI	2903
26	367	111	1000 Providence Pl Unit 111		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	124	1000 Providence Pl Unit 124		Colaluca Joseph	903 Providence Pl	Providence	RI	2903
26	367	126	1000 Providence Pl Unit 126		Kuzoian Ronald B	1000 Providence Pl	Providence	RI	2903
26	367	135	1000 Providence Pl Unit 135		Velasquez Juarez Carlos A	1000 Providence Pl	Providence	RI	2903
26	367	137	1000 Providence Pl Unit 137		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	143	1000 Providence Pl Unit 143		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	203	1000 Providence Pl		Caputo Christopher M	5742 Hillsboro Pk	Nashville	TN	37215
26	367	205	1000 Providence Pl		Albernaz Gabriella	1000 Providence Pl	Providence	RI	2903
26	367	234	1000 Providence Pl		Fagan Dillon	1000 Providence Pl	Providence	RI	2903
26	367	236	1000 Providence Pl		Duran Celina	903 Providence Pl	Providence	RI	2903
26	367	240	1000 Providence Pl		M S N Properties LLC	42 Maple St	Stow	MA	1775
26	367	246	1000 Providence Pl		Baker Gary R	903 Providence Pl	Providence	RI	2903
26	367	258	1000 Providence Pl		Henry Kevin	903 Providence Pl	Providence	RI	2903
26	367	261	1000 Providence Pl		Ortega Daniel E	1000 Providence Pl	Providence	RI	2903
26	367	343	1000 Providence Pl		Silvestre Monica G	903 Providence Pl	Providence	RI	2903
26	367	345	1000 Providence Pl		Papaleo Daniel M	1000 Providence Pl	Providence	RI	2903
26	367	351	1000 Providence Pl		Ghoreishi Shahrzad	1000 Providence Pl	Providence	RI	2903
26	367	356	1000 Providence Pl		Shah Ankur D	903 Providence Pl	Providence	RI	2903
26	367	358	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	371	1000 Providence Pl		Amen Joseph P	1000 Providence Pl	Providence	RI	2903
26	367	378	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	382	1000 Providence Pl		Vasquez Hsioufen	903 Providence Pl	Providence	RI	2903
26	367	384	1000 Providence Pl		Connelly Robert Jeff	903 Providence Pl	Providence	RI	2903
26	367	387	1000 Providence Pl		Easton Betty	903 Providence Pl	Providence	RI	2903
26	367	402	1000 Providence Pl		Vessenes Peter M	7935 Stone Creek Dr	Chanhassen	MN	55317
26	367	404	1000 Providence Pl		Andrews Scott H	1000 Providence Pl	Providence	RI	2903
26	367	412	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	414	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	443	1000 Providence Pl		Staples John C	1000 Providence Pl	Providence	RI	2903
26	367	445	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	452	1000 Providence Pl		Bagheri Hassan	1000 Providence Pl	Providence	RI	2903
26	367	454	1000 Providence Pl		Butts Donald	1000 Providence Pl	Providence	RI	2903
26	367	461	1000 Providence Pl		Monacelli Dolores	35 Beach St	Narragansett	RI	2882
26	367	468	1000 Providence Pl		Eljizi Lyla M	1000 Providence Pl	Providence	RI	2903
26	367	477	1000 Providence Pl		Hanley Michael J	1000 Providence Pl	Providence	RI	2903
26	367	487	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P491	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P495	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P496	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P516	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P521	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P546	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P548	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P557	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P563	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P565	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P571	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	P573	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	S212	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903

Notification: City Owners
Project: Woonasquatucket River Greenway

Plat	Lot	Unit	Address	Zip Code	Owner Name	Owner Address	City	State	Zip Code
26	367	S301	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	S303	1000 Providence Pl		Rodio Stephen A	2139 Broad St	Cranston	RI	2905
26	367	S308	1000 Providence Pl		Watson Mary-Rose	1000 Providence Pl	Providence	RI	2903
26	367	S311	1000 Providence Pl		Providence Homes LLC	1000 Providence Pl	Providence	RI	2903
26	367	S402	1000 Providence Pl		Summers Adrian B	903 Providence Pl	Providence	RI	2903
26	367	S410	1000 Providence Pl		Shu Huntern	1000 Providence Pl	Providence	RI	2903
26	367	S412	1000 Providence Pl		Andrews Scott H	1000 Providence Pl	Providence	RI	2903
26	367	S419	1000 Providence Pl		Wong Tin Lai	1000 Providence Pl	Providence	RI	2903
26	367	S423	1000 Providence Pl		Monacelli Dolores	35 Beach St	Narragansett	RI	2882
26	367	S429	1000 Providence Pl		Lewis Patti J	903 Providence Pl	Providence	RI	2903
26	248		204 Kinsley Ave	2908	Rhode Island Holdings Inc. LMG	75 Fountain St	Providence	RI	2903
26	248		204 Kinsley Ave	2908	Rhode Island Holdings Inc. LMG	75 Fountain St	Providence	RI	2903
27	36		288 Kinsley Ave	2909	LLC OGN	1140 Reservoir Ave	Cranston	RI	2920
27	10		499 Valley St		City of Providence	City Hall	Providence	RI	2903
67	552		291 Promenade St	2908	Foundry Portfolio Associates LLC	235 PROMENADE ST	PROVIDENCE	RI	2908
27	271		430 Kinsley Ave	2909	Twin Realty Company LLC	430 Kinsley Ave	Providence	RI	2909
27	271		430 Kinsley Ave	2909	Twin Realty Company LLC	430 Kinsley Ave	Providence	RI	2909
27	47		260 Kinsley Ave	2909	Rhode Island Holdings Inc. LMG	75 Fountain St	Providence	RI	2903
65	989		355-375 Valley St	2909	Brady Sullivan Eagle Street LLC	670 Commercial St	Manchester	NH	3101
65	989		355-375 Valley St	2909	Brady Sullivan Eagle Street LLC	670 Commercial St	Manchester	NH	3101
27	1	109	532 Kinsley Ave Unit 109	2909	Douglas Michael J	532 Kinsley Ave	Providence	RI	2909
27	1	113	532 Kinsley Ave	2909	Almeida Tyler A	532 Kinsley Ave	Providence	RI	2909
27	1	118	532 Kinsley Ave Unit 118	2909	Gibson Arthur B	532 Kinsley Ave	Providence	RI	2909
27	1	202	532 Kinsley Ave Unit 202	2909	Shedd Nathaniel	532 Kinsley Ave	Providence	RI	2909
27	1	207	532 Kinsley Ave Unit 207	2909	Florence Heather	532 Kinsley Ave	Providence	RI	2909
27	1	303	532 Kinsley Ave Unit 303	2909	Korsnes Sebastian K	532 Kinsley Ave	Providence	RI	2909
27	1	403	532 Kinsley Ave Unit 403		Kenney Sandra	532 Kinsley Ave	Providence	RI	2909
27	1	102	532 Kinsley Ave Unit 102	2909	Bright Erik	532 Kinsley Ave	PROVIDENCE	RI	2909
27	1	105	532 Kinsley Ave Unit 105	2909	Horowitz Aaron J	532 Kinsley Ave	Providence	RI	2909
27	1	114	532 Kinsley Ave Unit 114	2909	Ryan Katelyn C	532 Kinsley Ave	Providence	RI	2909
27	1	117	532 Kinsley Ave Unit 117	2909	Townsend Michael	532 Kinsley Ave	Providence	RI	2909
27	1	502	532 Kinsley Ave Unit 502	2909	Magennis Matthew D	430 Northeast 9th Ave	Gainsville	FL	32601
27	1	205	532 Kinsley Ave Unit 205	2909	BAUTA NICOLAS	532 Kinsley Ave	Providence	RI	2909
27	1	100	532 Kinsley Ave Unit 100	2909	Nugent Trevor	532 Kinsley Ave	Providence	RI	2909
27	1	107	532 Kinsley Ave Unit 107	2909	Maglott Larry F	532 Kinsley Ave	Providence	RI	2909
27	1	111	532 Kinsley Ave Unit 111	2909	Tobias Graham M	532 Kinsley Ave	Providence	RI	2909
27	1	200	532 Kinsley Ave Unit 200	2909	Shapiro Anna	532 Kinsley Ave	Providence	RI	2909
27	1	101	532 Kinsley Ave Unit 101	2909	Fleming John E	532 Kinsley Ave	Providence	RI	2909
27	1	106	532 Kinsley Ave Unit 106	2909	Younger Meredith	532 Kinsley Ave	Providence	RI	2909
27	1	108	532 Kinsley Ave Unit 108	2909	Scheing Greta C	532 Kinsley Ave	Providence	RI	2909
27	1	206	532 Kinsley Ave	2909	Schmutzler Timothy N	532 Kinsley Ave	Providence	RI	2909
27	1	404	532 Kinsley Ave Unit 404		Oswald Annalisa	532 Kinsley Ave	Providence	RI	2909
27	1	103	532 Kinsley Ave Unit 103	2909	Farrell Enrique A	532 Kinsley Ave	Providence	RI	2909
27	1	104	532 Kinsley Ave Unit 104	2909	Rockefeller Clay	532 Kinsley Ave	PROVIDENCE	RI	2909
27	1	115	532 Kinsley Ave Unit 115	2909	Houllahan Robert	532 Kinsley Ave	Providence	RI	2909
27	1	116	532 Kinsley Ave Unit 116	2909	Boyer Joanna	532 Kinsley Ave	Providence	RI	2909
27	1	402	532 Kinsley Ave Unit 402	2909	Rockefeller Clayton	532 Kinsley Ave	Providence	RI	2909
27	1	501	532 Kinsley Ave Bldg 501	2909	Rockefeller Clayton A	532 Kinsley Ave	Providence	RI	2909
27	1	204	532 Kinsley Ave Unit 204	2909	Earabino Gerard J	532 Kinsley Ave	Providence	RI	2909
27	1	302	532 Kinsley Ave Unit 302	2909	Lux Benjamin D	532 Kinsley Ave	Providence	RI	2909
27	1	110	532 Kinsley Ave Unit 110	2909	Korsnes Sebastian K	532 Kinsley Ave	Providence	RI	2909
27	1	112	532 Kinsley Ave Unit 112	2909	Grant Todd	16 Tupelo Hill Dr	Cranston	RI	2920
27	1	201	532 Kinsley Ave Unit 201	2909	Read Mario L	532 Kinsley Ave	Providence	RI	2909
27	1	203	532 Kinsley Ave Unit 203	2909	Forsythe Jeremy	532 Kinsley Ave	Providence	RI	2909
27	1	304	532 Kinsley Ave Unit 304	2909	Bright Robert L	532 Kinsley Ave	Providence	RI	2909
27	1	503	532 Kinsley Ave Unit 503	2909	Chayt Michael	532 Kinsley Ave	Providence	RI	2909
27	279		68 Hemlock St		Foundry ALCO Members LLC	235 Promenade St	Providence	RI	2908
27	279		68 Hemlock St		Foundry ALCO Members LLC	235 Promenade St	Providence	RI	2908
27	279		68 Hemlock St		Foundry ALCO Members LLC	235 Promenade St	Providence	RI	2908
27	279		68 Hemlock St		Foundry ALCO Members LLC	235 Promenade St	Providence	RI	2908
67	526		45 Pleasant Valley Pkwy	2908	Jan CO ,INC	35 SOCKANOSSET CROSS RD	CRANSTON	RI	02920-5535
67	526		45 Pleasant Valley Pkwy	2908	Jan CO ,INC	35 SOCKANOSSET CROSS RD	CRANSTON	RI	02920-5535
65	977	C34E	589 Atwells Ave Unit C34E	2909	Wall Brendan	589 Atwells Ave	Providence	RI	2909
65	977	H22B	75 Eagle St Unit H22B	2909	Blumenthal David	75 Eagle St	Providence	RI	2909
65	977	H22E	75 Eagle St Unit H22E	2909	King Joseph R	75 Eagle St	Providence	RI	2909
65	977	H23G	75 Eagle St Unit H23G	2909	Pagan Angel J	75 Eagle St	Providence	RI	2909
65	977	C33E	589 Atwells Ave Unit C33E	2909	Parisi Kurtis	589 ATWELLS AVE	PROVIDENCE	RI	02909-2472
65	977	C33G	589 Atwells Ave Unit C33G	2909	Quarles Todd D	589 ATWELLS AVE	PROVIDENCE	RI	02909-2472
65	977	C34G	589 Atwells Ave Unit C34G	2909	Kubiatowicz James	589 Atwells Ave	Providence	RI	2909
65	977	H22H	75 Eagle St Unit H22H	2909	Milne G Eben	75 Eagle St	Providence	RI	2909
65	977	H23D	75 Eagle St Unit H23D	2909	Tarr Deborah	75 Eagle St	Providence	RI	2909
65	977	3	589 Atwells Ave Unit 3	2909	New England Expedition-Providence Retail LLC	222 Newbury St	Boston	MA	2116
65	977	D1	589 Atwells Ave Unit D1	2909	New England Expedition-Providence Retail LLC	222 Newbury St	Boston	MA	2116
65	977	D2	589 Atwells Ave Unit D2	2909	New England Expedition-Providence Commercial I	220 Newbury St., 4th Floor	Boston	MA	2116
65	977	C34A	589 Atwells Ave Unit C34A	2909	Benway Michael J	589 Atwells Ave	Providence	RI	2909
65	977	C34K	589 Atwells Ave Unit C34K	2909	Bell Benjamin H	589 Atwells Ave	Providence	RI	2909
65	977	H22A	75 Eagle St Unit H22A	2909	Sentkowski Peter	75 Eagle St	Providence	RI	2909
65	977	H22F	75 Eagle St Unit H22F	2909	Silva Jeffrey	75 Eagle St	Providence	RI	2909
65	977	H23F	75 Eagle St Unit H23F	2909	Cabral Matthew Lussier	75 Eagle St	Providence	RI	2909
65	977	C1	589 Atwells Ave Unit C1	2909	New England Expedition-Providence Retail LLC	222 Newbury St	Boston	MA	2116
65	977	C33B	589 Atwells Ave Unit C33B	2909	Dennis Kelly E	589 Atwells Ave	Providence	RI	2909
65	977	C33K	589 Atwells Ave Unit C33K	2909	Ambrosino Kelli	589 Atwells Ave	Providence	RI	2909
65	977	C34C	589 Atwells Ave Unit C34C	2909	EDWARDS TAWANNA Trustee	589 ATWELLS Ave	PROVIDENCE	RI	02909-2472
65	977	H23A	75 Eagle St Unit H23A	2909	Kessler Dawn Nakamura	460 Marion Parkway 1703C	Denver	CO	80209
65	977	H23E	75 Eagle St Unit H23E	2909	Malik Saberah Trustee	55 ISLAND VIEW Dr	WARWICK	RI	2886
65	977	D3	623 Atwells Ave Unit d3	2908	New England Expedition Providence I LLP	222 Newbury St 4th Floor ST	Boston	MA	2116
65	977	C34B	589 Atwells Ave Unit C34B	2909	Laderer Matthew	589 Atwells Ave	Providence	RI	2909

Abutting Property Owners
Project: Woonasquatucket River Greenway

Plat	Lot	Unit	Address	Zip Code	Owner Name	Owner Address	City	State	Zip Code
65	977	H22G	75 Eagle St Unit H22G	2909	Lindsay Kyle W	75 Eagle St	Providence	RI	2909
65	977	H23J	75 Eagle St Unit H23J	2909	DeFusco Edward N Jr	75 Eagle St	Providence	RI	2909
65	977	H23K	75 Eagle St Unit H23K	2909	Amrhein Thomas A	75 Eagle St	Providence	RI	2909
65	977	C33H	589 Atwells Ave Unit C33H	2909	Vallone Anthony J	589 Atwells Ave	Providence	RI	2909
65	977	C33J	589 Atwells Ave Unit C33J	2909	Gabor Meredith Hope	589 Atwells Ave	Providence	RI	2909
65	977	C34D	589 Atwells Ave Unit C34D	2909	GARRITY JOHN P Living Trust	589 ATWELLS AVE	PROVIDENCE	RI	02909-2472
65	977	C34F	589 Atwells Ave Unit C34F	2909	Baskin Gerald D	10 Fales Rd	Sharon	MA	2067
65	977	H1	589 Atwells Ave Unit H1	2909	New England Expedition-Providence Retail LLC	222 Newbury St	Boston	MA	2116
65	977	C33D	589 Atwells Ave Unit C33D	2909	Houle Patricia A	589 ATWELLS AVE	PROVIDENCE	RI	02909-2472
65	977	C33F	589 Atwells Ave Unit C33F	2909	Gagnon Alexander	589 Atwells Ave	Providence	RI	2909
65	977	C34H	589 Atwells Ave Unit C34H	2909	Glennon John T	589 Atwells Ave	Providence	RI	2909
65	977	C34J	589 Atwells Ave Unit C34J	2909	Markowske Lee-Ann	589 Atwells Ave	Providence	RI	2909
65	977	H22K	75 Eagle St Unit H22K	2909	Gill Paula	75 Eagle St	Providence	RI	2909
65	977	H23C	75 Eagle St Unit H23C	2909	Salemi John	75 Eagle St	Providence	RI	2909
65	977	C2	589 Atwells Ave Unit C2	2909	New England Expedition-Providence Commercial I	220 Newbury St., 4th Floor	Boston	MA	2116
65	977	C33A	589 Atwells Ave Unit C33A	2909	Levin Alexander M	150 US Highway 1BYP	Portsmouth	NH	3801
65	977	C33C	589 Atwells Ave Unit C33C	2909	589 Atwells Avenue LLC	589 Atwells Ave	Providence	RI	2909
65	977	H22C	75 Eagle St Unit H22C	2909	Winterson Deborah	75 Eagle St	Providence	RI	2909
65	977	H22D	75 Eagle St Unit H22D	2909	Toch Laura	75 Eagle St	Providence	RI	2909
65	977	H22J	75 Eagle St Unit H22J	2909	Dufresne Christine M	75 Eagle St	Providence	RI	2909
65	977	H23B	75 Eagle St Unit H23B	2909	Shoemaker David	75 Eagle St	Providence	RI	2909
65	977	H23H	75 Eagle St Unit H23H	2909	Joost Karen L	75 Eagle St	Providence	RI	2909
67	535		275 Promenade St	2908	Foundry Portfolio Associates LLC	235 PROMENADE ST	PROVIDENCE	RI	2908
27	278		36 Hemlock St		Foundry ALCO Members LLC	235 Promenade St	Providence	RI	2908
27	294		429 Valley St	2901	Locomotive Works	670 North Commercial Street, Ste 3	Manchester	NH	3101
27	294		429 Valley St	2901	Locomotive Works	670 North Commercial Street, Ste 3	Manchester	NH	3101
27	276		411 Valley St	2901	Locomotive Works	670 North Commercial Street, Ste 3	Manchester	NH	3101
27	274		27 Sims Ave	2909	Woonasquatucket Valley community Build Inc	27 Sims Ave	Providence	RI	2909
27	275		37 Sims Ave	2909	Woonasquatucket Valley community Build Inc	27 Sims Ave	Providence	RI	2909
27	273		1 Sims Ave	2909	MILHAUS LLC		PROVIDENCE	RI	2909
27	299		10 Simms Ave		Providence Redevelopment Agency	444 Westminster St Ste 3A	Providence	RI	2903
27	299		10 Simms Ave		Providence Redevelopment Agency	444 Westminster St Ste 3A	Providence	RI	2903
27	299		10 Simms Ave		Providence Redevelopment Agency	444 Westminster St Ste 3A	Providence	RI	2903
67	570		405 Promenade St	2908	Center Inc New York Blood	310 67th St	New York	NY	10065
67	570		405 Promenade St	2908	Center Inc New York Blood	310 67th St	New York	NY	10065
67	570		405 Promenade St	2908	Center Inc New York Blood	310 67th St	New York	NY	10065
67	570		405 Promenade St	2908	Center Inc New York Blood	310 67th St	New York	NY	10065
27	295		459 Valley St	2901	GNL Realty Eagle LLC	765 WESTMINSTER St	Providence	RI	2903
27	296		475 Valley St	2901	WaterFire Providence	475 Valley St	PROVIDENCE	RI	2908
26	389		10 Harris Ave	2903					

APPENDIX G

Public Archaeology Laboratory (PAL) Report

Public Archaeology Laboratory

Woonasquatucket River Greenway Project

Providence, Rhode Island

Cultural Resources Due Diligence

September 10, 2019
PAL #3684

Submitted to:
McMahon Associates, Inc.
14 Breakneck Hill Road, Suite 201
Lincoln, Rhode Island 02865

The City of Providence, with the assistance of the Rhode Island Department of Transportation (RIDOT), is proposing the Woonasquatucket River Greenway Project (the Project), a separated bikeway/shared-use path along the Woonasquatucket River. The City has contracted McMahon Associates, Inc. to provide services that include evaluation and recommendation of alternatives, full design and engineering, advertising, and post-design services for a section of the Project along Promenade Street or Kingsley Avenue between Park Street (Providence Place Mall) and Eagle Street (Eagle Square). The Project will utilize State funds and, therefore, requires consultation with the Rhode Island Historical Preservation & Heritage Commission under the Rhode Island Historic Preservation Act of 1968 (Rhode Island General Law 42-45 *et seq*.) to identify and evaluate measures to avoid and or mitigate any adverse effect.

The Public Archaeology Laboratory, Inc. (PAL), as part of the McMahon Associates team has conducted a cultural resources due diligence review to provide information about cultural resources that could be affected by the proposed Project, and to make recommendations to assist the City of Providence and RIDOT in meeting their responsibilities under RIGL 42-45 *et seq*.

Project Description

The Woonasquatucket Greenway (established 1993) extends along the portion of the river from the Providence Place Mall in Providence to Lyman Avenue in Johnston. From the mall to Eagle Street in Providence the Greenway is an on-road bike lane. The stretch from Eagle Street to Aleppo Street in Providence alternates between off-road and on-road segments. From Aleppo Street to Lyman Avenue the Greenway is as an off-road bike path/shared-use path.

The Project encompasses the section of Greenway between Park Street near the mall to Eagle Street at Eagle Square where the Greenway is bordered by Promenade Street to the north and Kingsley Avenue to the south (Figure 1, Photos 1–3). The Project involves the construction of a separated bikeway and pedestrian facility and green infrastructure. Elements of the Project will likely include moving the curb line on the River side of the Greenway to reduce the curb-to-curb width and the number of vehicular travel lanes on either side of Promenade Street and/or Providence Place/Kinsley Avenue. Additional features of the Project include measures to reduce vehicular speeding along Kinsley Avenue, Promenade Street, and Providence Place; design features such as green infrastructure; the development of pocket parks, areas for sculpture, and seating, along the River between Eagle and Park streets; improvements to physical and visual access to the River within the Project Area; an improved connection from the new Promenade/Kinsley extension of the Greenway designed through this Project and the Mall underpass across Park Street; the creation of an improved crossing from beneath the Mall across Francis Street near Finance Way for

pedestrians and bicyclists; Greenway signage near the Mall and Eagle Street; improvements to the Providence Place/Park Street/Harris intersection to allow two way traffic from Park to access Harris; and structural analyses and initial design concepts to rehabilitate two abandoned bridges over the River near Charlotte Hope Street (between Kinsley Avenue and the ALCO site) into pedestrian/bicycle only bridges/mini-pocket parks.

Recommended Area of Potential Effects

Based on the nature of the Project, including the areas of disturbance, anticipated construction activities, and the features that will be built, PAL recommends an Area of Potential Effects (APE) that includes the parts of Promenade Street, the Woonasquatucket River, Kingsley Avenue, and the properties that abut the roads on either side between Park and Eagle Streets (Figure 2). This area is sufficient to account for any direct or indirect effects that may result from construction or visual impacts from the proposed bike/pedestrian route that may result in changes to a historic property's setting.

Due Diligence Review

The purpose of the due diligence review was to identify previously recorded archaeological sites and historic architectural properties in the recommended APE for the Project. Information for the due diligence review was gathered through a search of the RIHPHC's cultural resource inventories. The file review included historic architectural properties that are listed or evaluated as eligible for listing in the State or National Registers of Historic Places (State/National Registers) and surveyed properties that have not been evaluated for registration. PAL also consulted Providence local historic district records, as well as historical maps (Beers 1870; Cushing and Walling 1851; Everts & Richards 1895; Hopkins 1875, 1882, 1918; Walling 1851, 1855) and aerial photographs (RIGIS 1939–2014) that were used to evaluate changes within the recommended APE over time. PAL also reviewed the results of several prior surveys for the I-95 Providence Viaduct Bridge #578 and bridges 579 and 583 and (Chereau 2018; Olausen and Mair 2008, 2012), was well as surveys for the Providence Cove Lands (Artemel et al. 1981, 1983, 1984) the resulted in the establishment of the Providence Cove Lands Archaeological District, a resource that was determined eligible for listing in the National Register of Historic Places in 1982.

PAL conducted a field assessment to document current conditions within the recommended APE and inspect properties that were identified during the review of RIHPHC and Providence city records. A team consisting of an architectural historian and assistant architectural historian walked the entire recommended APE, photographed all standing buildings and structures, and recorded notes about the location, appearance, condition, and potential significance of properties that are at least 50 years old and retain at least some architectural integrity.

Results

Archaeological Sensitivity

The Woonasquatucket River flows 19 miles through six cities and towns in Rhode Island. The river flowed through a rural landscape of forest and farmland from its headwaters all the way to the Great Salt Cove in Providence (Figure 3). The Woonasquatucket River served as an important resource for Pre-Contact Native Americans, both for subsistence and for transportation. Following the European settlement of the area remain unsettled, the banks of the river consisting of flats and marshes covered by thick, coarse grass. As Providence grew, the importance of the Woonasquatucket River as a source of waterpower for emerging

industry was recognized. The river through the APE was channelized and the surrounding flats and marches were filled (see Figure 3).

A review of the archaeological site files at the RIHPHC indicates that the Woonasquatucket River Greenway Project area abuts the Providence Cove Lands Archaeological District (RI 935) (see Figure 2), a resource that was determined eligible for listing in the National Register of Historic Places in 1982. The Providence Cove Lands Archaeological District is an archaeologically significant area of land and former cove waters located along the Woonasquatucket and Moshassuck rivers and the former Great Salt Cove. As presently defined, the district includes two pre-contact period sites, the Carpenter's Point Site (RI 935.1), located south of the archaeological APE, and the North Shore Site (RI 935.2) located on the opposite side of the cove, at the base of Smith Hill (Artemel et al. 1981, 1983, 1984). Neither site is within the APE. The RIHPHC site files also identify two sites in close proximity to the APE that are no longer extant, the Rhode Island Prison Archaeological Site (RI 1581) and the Roger Williams Foundry Archaeological Site (RI 1582). Both sites were mitigated through data recovery programs and the Providence Place Mall and parking garage occupy the area of these two sites.

A review of geotechnical boring logs for the Providence Viaduct Ramps Pier Repairs Project for Bridges 579 and 583 at the eastern end of the APE provided information on past and exiting soil conditions. A total of seven borings encompassing areas along Promenade Street and the Woonasquatucket River were reviewed. Four soil borings from 1958 and 1959 prior to the construction of Bridge No. 583 Pier 5 revealed natural soils from 0 to 6 ft below surface on the south bank of the Woonasquatucket River in three of these borings taken. Three soil borings from 1958 and 1973 prior to the construction of Bridge No. 583 Pier 6 revealed a combination of fill and natural soils from 0 to 6 ft below surface on the north side of the Woonasquatucket River in all three of these borings. The soil borings subjected to geotechnical review were advanced in the late 1950s, early 1960s, and early 1970s before the 1980s construction of the Providence Viaduct interchange ramp bridges and piers. The review of these borings determined that the area of Bridge No. 579 Piers 3 and 6 contained fill deposits to 6 ft below ground surface, likely related to documented late nineteenth and twentieth century filling of the former cove and river channelization to accommodate railroad freight yards and tracks and associated roadway improvements (Figure 4) (Olausen and Mair 2008, 2012). The soil borings review also determined that the area of Bridge No. 583 Piers 5 and 6 contained a combination of natural soils and fill deposits to 6 ft below surface, where fill deposits were likely related to the same past land-making episodes for the modern rail and roadway infrastructure in the present highway interchange area. Based on these soil borings the construction of the piers in the 1980s and subsequent roadway improvements on both sides of the river channel likely destroyed the integrity of any intact archaeological deposits that may have been present in natural soils, and that the proposed belowground excavation work areas presently contain fill deposits and disturbed soil contexts.

Above-Ground Resources

The recommended APE contains a total of 12 properties that have been are previously documented (Figure 5, Table 1). They include the Brown and Sharpe Manufacturing Complex, the Nicholson File Company Mill Complex, and the Providence Steel and Iron Company Complex, which are listed in the State/National Registers. The three districts and 9 other individual properties are within the Providence Landmarks District-Industrial and Commercial Buildings District (PLD-ICBD), a local historic district that was most recently expanded and updated in 2014.

The recommended APE also includes two properties, the Providence Journal Complex and The 903 Apartment Complex, that are less than 50 years of age. Two properties that were listed in the National Register are no longer extant; the Silver Top Diner was moved in 2002 and the Providence Fruit and Produce Warehouse District was demolished ca. 2008.

Table 1. Historic Architectural Properties

Map No.	Name	Address	Parcel No.	Date Built	Status	Photo No.
1	Brown and Sharpe Manufacturing Complex/The Foundry	253 Promenade Street	067-534, -535, -536, -539, -540, -541, 542, -543, -546, -547, -551, -552, -558, -559; 004-253, -255, -256	1872	NR Listed district; contributes to the PLD-ICBD	4–6
2	Nicholson File Company Mill Complex	1–45 Acorn Street/350 Kinsley Avenue	027-016	1865-mid-20th c.	NR Listed; contributes to the PLD-ICBD; Inventoried	7–8
3	Clason Architectural Metal Works	430 Kinsley Avenue	027-271	Ca. 1900	contributes to the PLD-ICBD	9–10
4	Providence Steel and Iron Company Complex	1–27 Sims Avenue	027-273, -274, -275	1902-1954	NR Listed; contributes to the PLD-ICBD	11–12
5	Monohasset Mill	530–532 Kinsley Street	027-001	1866	contributes to the PLD-ICBD;	13–14
6	Valley Worsted Mill (Part of Eagle Square Buildings)	45 Eagle Street/589 Atwells Avenue	065-977	1866	contributes to the PLD-ICBD;	15–16
7	United States Rubber Co.	355-375 Valley Street/25 Eagle Street	065-195, -934	Ca. 1900	contributes to the PLD-ICBD	17–19
8	United States Rubber Co.	429 Valley Street	027-294	1925	contributes to the PLD-ICBD	20–21
9	Rhode Island Locomotive Works	68 Hemlock Street	027-279	Ca. 1880	contributes to the PLD-ICBD	22–24
10	Governor Dyer Cooperative Market	35 Hemlock Street	027-087	1927, 1937, 1977	contributes to the PLD-ICBD	25–27
11	New England Telephone & Telegraph Co. (Cuffee School)	459 Promenade Street	027-088	1935	contributes to the PLD-ICBD	28–29
12	Congdon & Carpenter Co. Building	405 Promenade Street	065-570	1930	contributes to the PLD-ICBD; Inventoried	30–32

Recommendations

Archaeological Resources

Information collected during the archival research and field investigations was used to predict the locations and types of archaeological sites that could be expected within the Woonasquatucket River Greenway Project area. The criteria are proximity of recorded and documented sites, local land use history, environmental data, and existing conditions. Historic development within the corridor has been continuous and extensive with filling, cutting, and construction episodes. The extent of post-contact period disturbances associated with industrial, residential, and transportation development within the APE for direct impacts has likely destroyed the integrity of any pre-contact period archaeological deposits and/or early post-contact period archaeological deposits that may have existed within the Project APE. The APE has low or no archaeological sensitivity. Furthermore, the portion of the Providence Cove Lands Archaeological District within the APE will not be impacted by any proposed construction. PAL recommends that the Woonasquatucket River Greenway Project will have no impact on potentially significant archaeological sites.

Architectural Properties

Based on a review of Project plans and the results of the due diligence and field assessment PAL recommends that the Woonasquatucket River Greenway Project is unlikely to cause any direct or indirect effects on historic architectural properties. The APE consists of a mixed-use neighborhood of light industry, high-density housing, and commercial properties. The area has been heavily modified by the demolition of historic properties and modern development such as new construction and road improvements associated with the development of the Providence Place Mall. These developments have impacted the integrity of the historic landscape and setting. The primary new elements of the Woonasquatucket Greenway Project consist of altering roadway configurations within the existing road right-of-way and the creation of additional green-space to accommodate the construction of a bike-use/shared-use path that is not located directly along roadways. These project elements will not physically alter any of the historic properties in the recommended APE and the potential visual impact will not impact the setting or any other characteristic of significance of any of the properties.

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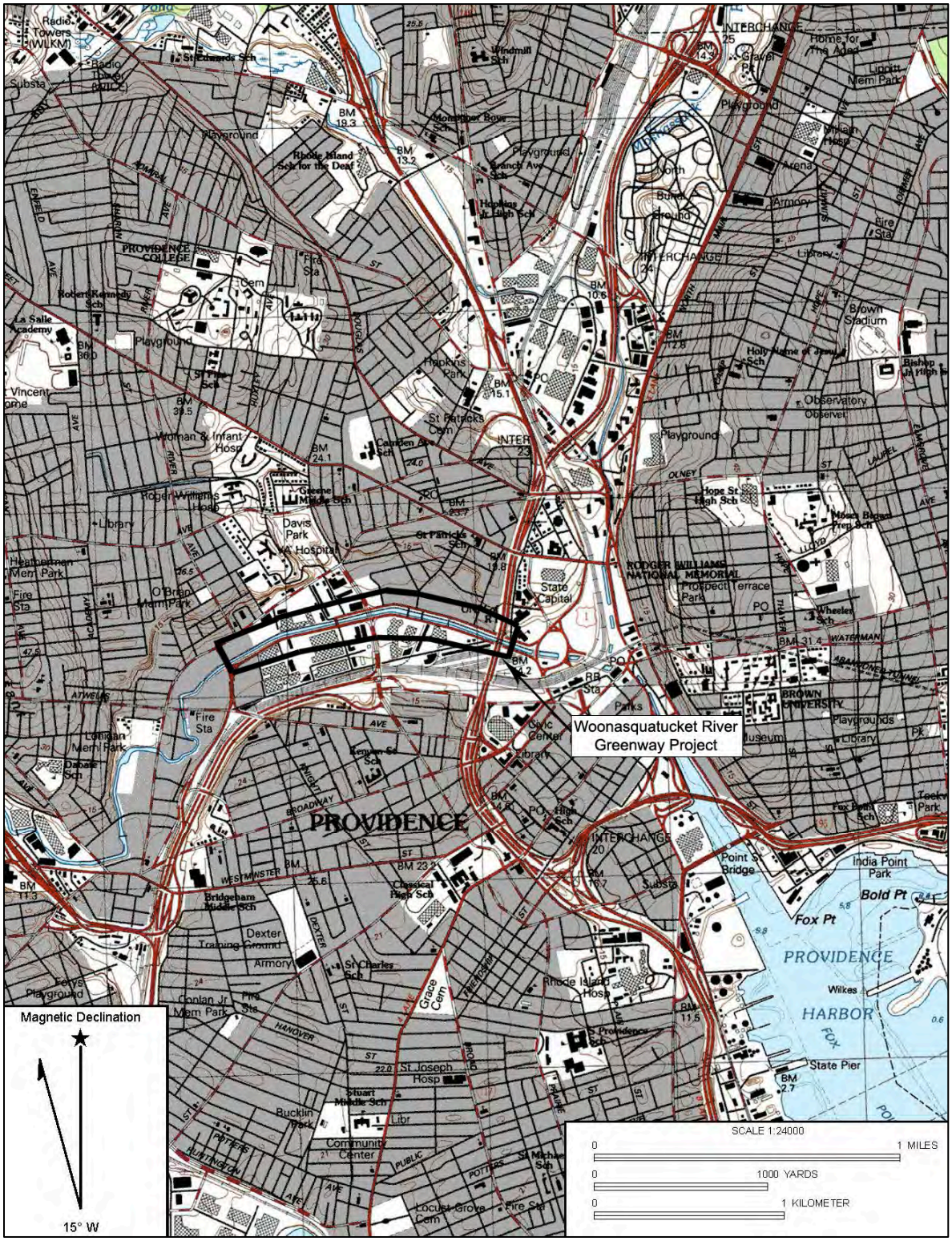


Figure 1. Woonasquatucket River Greenway Project Location.

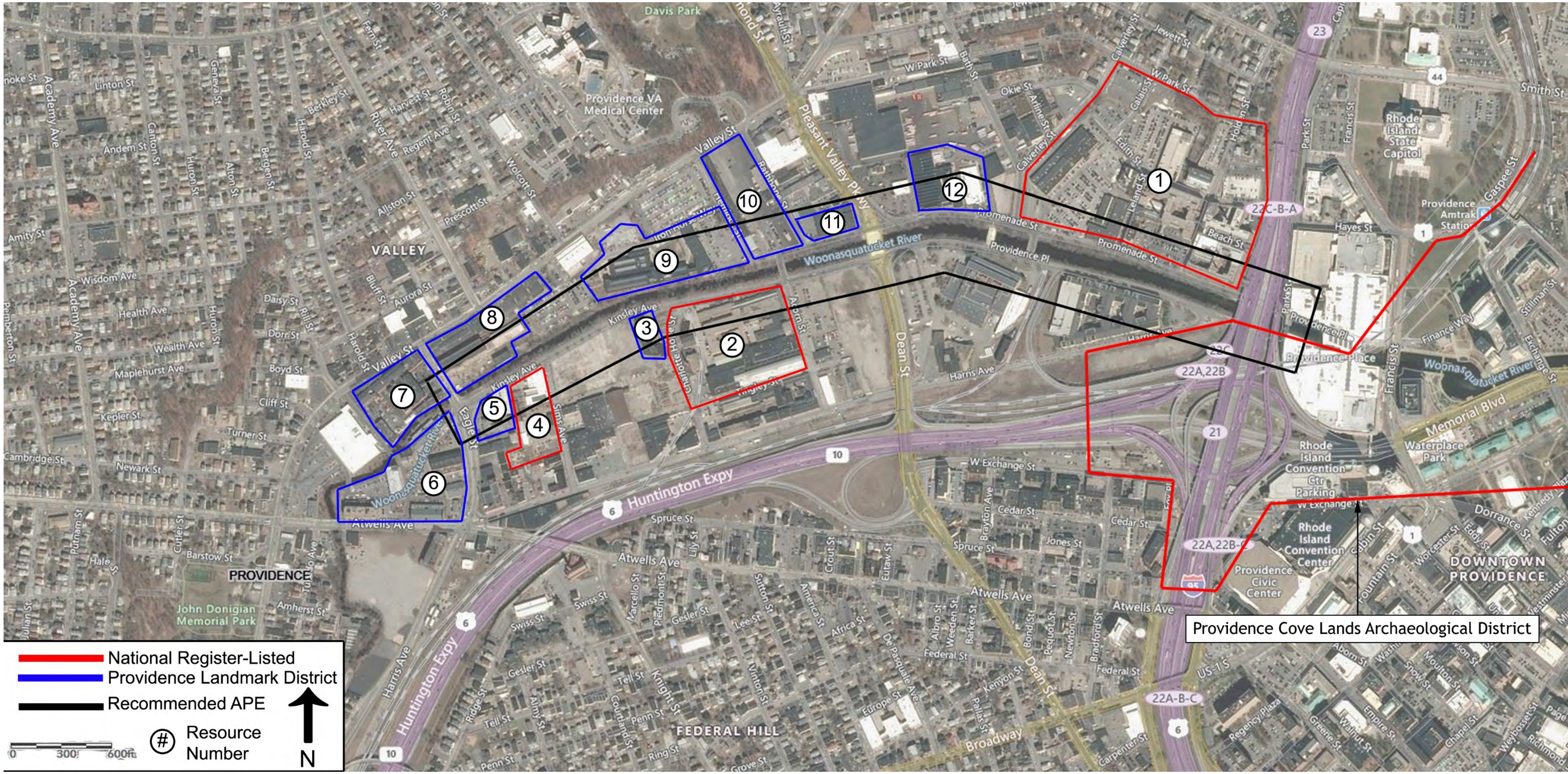
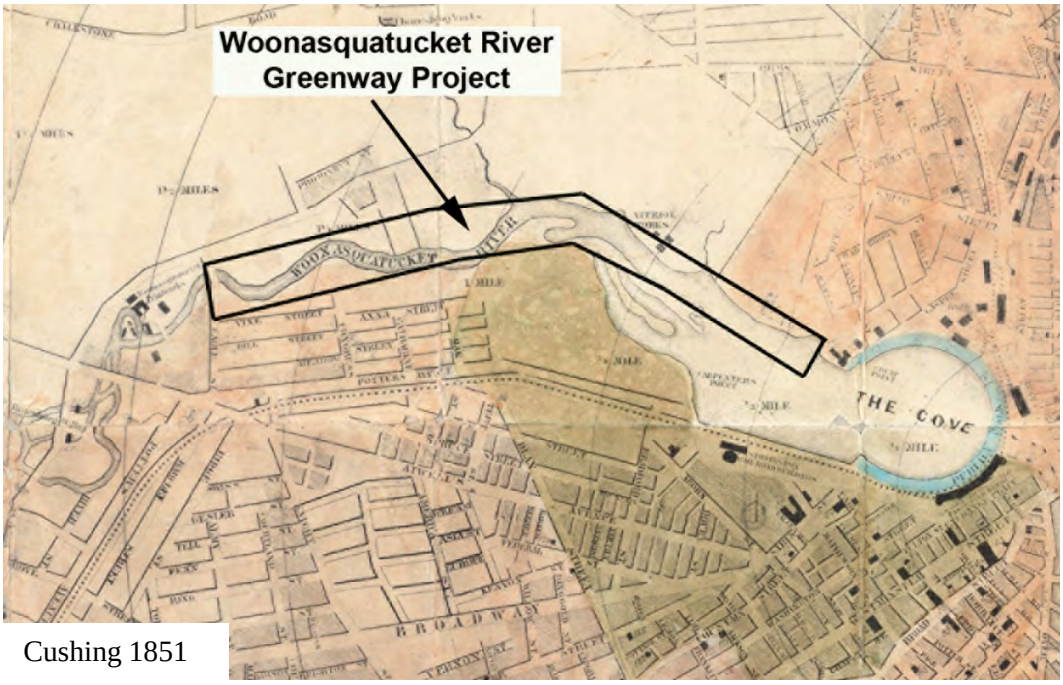
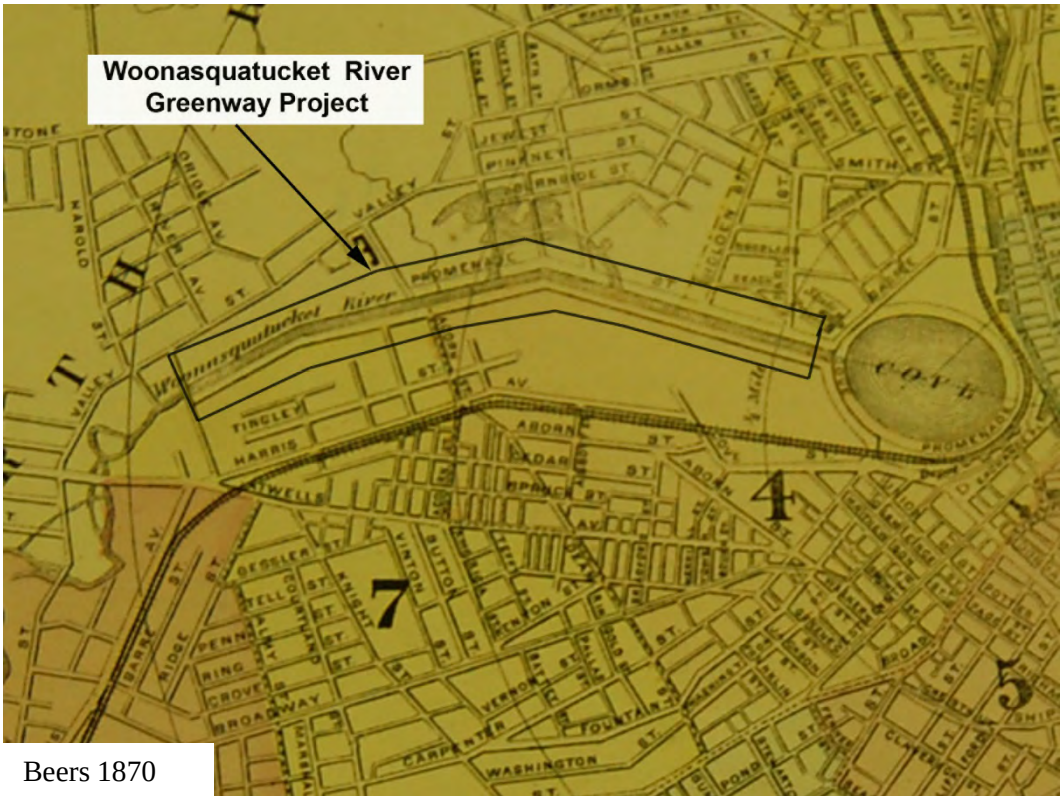


Figure 2. Recommended Area of Potential Effects (APE) and previously inventoried resources.



Cushing 1851



Beers 1870

Figure 3. Historical maps depicting the Woonasquatucket River within the Woonasquatucket River Greenway Project area.

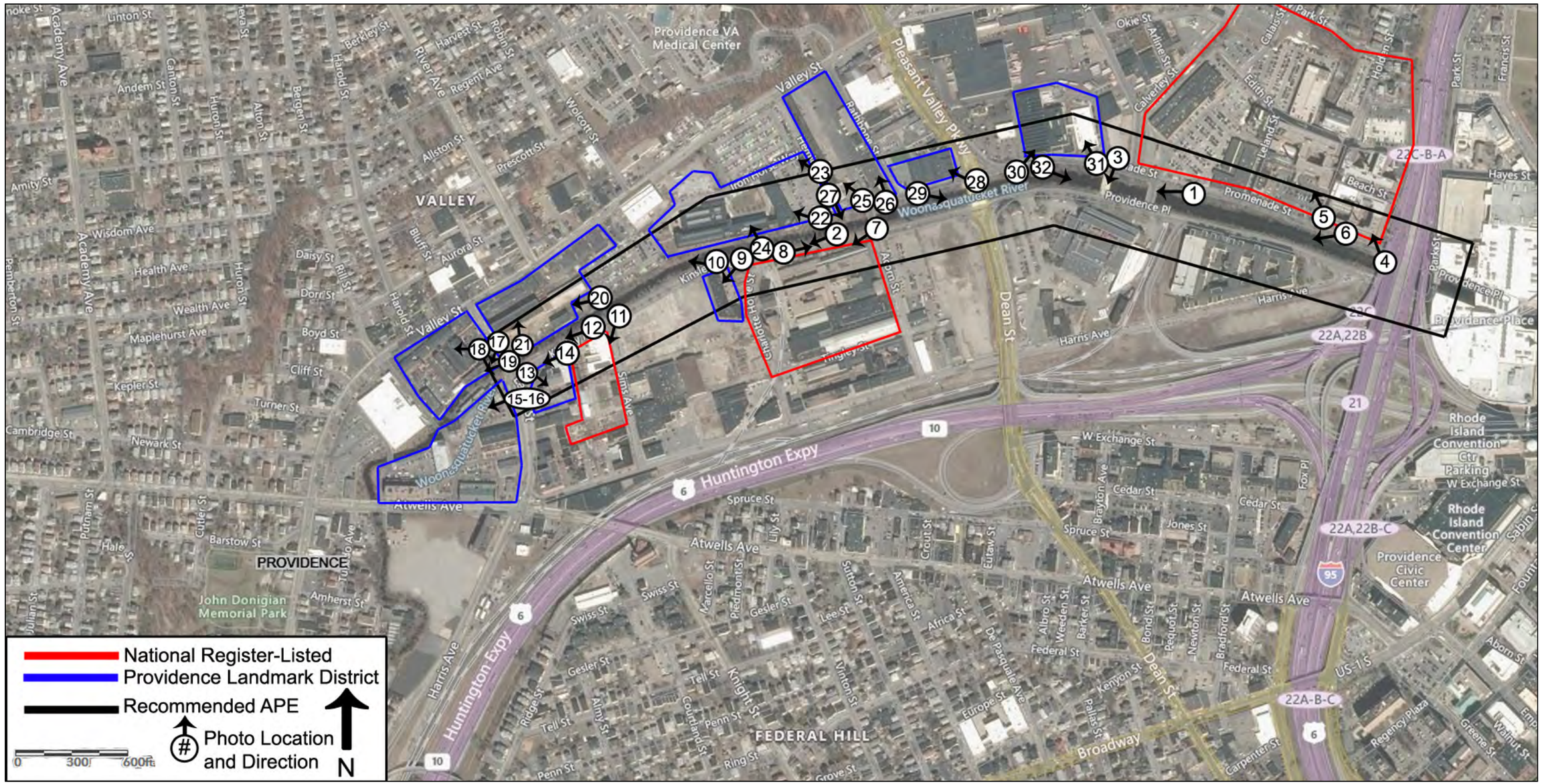


Figure 4. Location of photograph views.

Photo 1. Woonasquatucket River Greenway on Promenade Street, view west.

Photo 2. Woonasquatucket River Greenway on Kinsley Avenue, view west.

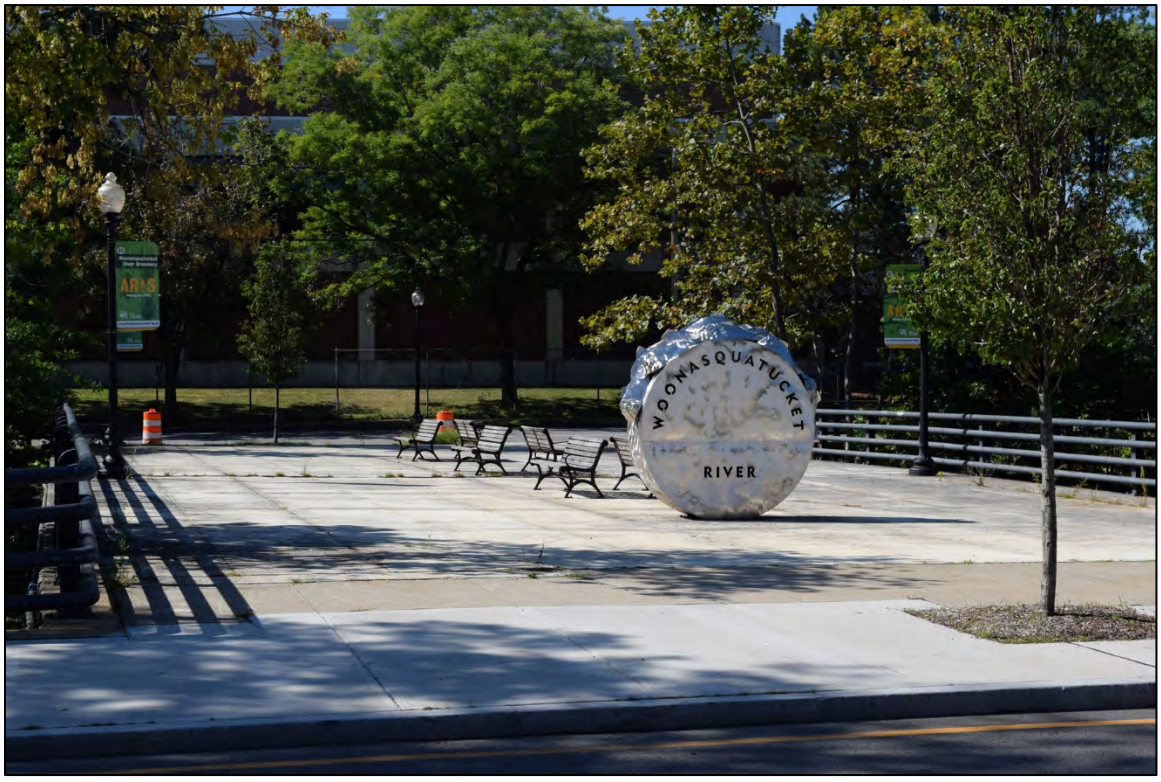


Photo 3. Woonasquatucket River Greenway between Promenade Street and Kinsley Avenue, view southwest.

Photo 4. Brown and Sharpe Manufacturing Complex/The Foundry (Map No. 1).

Photo 5. Brown and Sharpe Manufacturing Complex/The Foundry (Map No. 1).

Photo 6. View from Brown and Sharpe Manufacturing Complex/The Foundry (Map No. 1) to Woonasquatucket River Greenway, view southwest.

Photo 7. Nicholson File Company Mill Complex (Map No. 2).

Photo 8. View from Nicholson File Company Mill Complex (Map No. 2) to Woonasquatucket River Greenway, view northeast.

Photo 9. Clason Architectural Metal Works (Map No. 3).

Photo 10. View from Clason Architectural Metal Works (Map No. 3) to Woonasquatucket River Greenway, view northwest.

Photo 11. Providence Steel and Iron Company Complex (Map No. 4).

Photo 12. View from Providence Steel and Iron Company Complex (Map No. 4) to Woonasquatucket River Greenway, view west.

Photo 13. Monohasset Mill Complex (Map No. 5).

Photo 14. View from Monohasset Mill Complex (Map No. 5) to the Woonasquatucket River Greenway, view west.

Photo 15. Valley Worsted Mill (Part of Eagle Square Buildings) (Map No. 6).

Photo 16. View of the Valley Worsted Mill (Part of Eagle Square Buildings) (Map No. 6) with the Woonasquatucket River Greenway immediately north, view northwest.

Photo 17. United States Rubber Co. (Map No. 7).

Photo 18. United States Rubber Co. (Map No. 7).

Photo 19. View of United States Rubber Co. (Map No. 7) with the Woonasquatucket River Greenway south across the river.

Photo 20. United States Rubber Co. (Map No. 8).

Photo 21. View from the Woonasquatucket River Greenway to United States Rubber Co. (Map No. 8), view north.

Photo 22. Rhode Island Locomotive Works (Map No. 9).

Photo 23. Rhode Island Locomotive Works (Map No. 9).

Photo 24. View from the Woonasquatucket River Greenway to Rhode Island Locomotive Works (Map No. 9), view north.

Photo 25. Governor Dyer Cooperative Market (Map No. 10).

Photo 26. Governor Dyer Cooperative Market (Map No. 10).

Photo 27. View from Governor Dyer Cooperative Market (Map No. 10) to the Woonasquatucket River Greenway, view southeast.

Photo 28. New England Telephone & Telegraph Co. (Cuffee School) (Map No. 11).

Photo 29. View from New England Telephone & Telegraph Co. (Cuffee School) (Map No. 11) to the Woonasquatucket River Greenway, view southeast.

Photo 30. Congdon & Carpenter Co. Building (Map No. 12).

Photo 31. Congdon & Carpenter Co. Building (Map No. 12).

Photo 32. View from Congdon & Carpenter Co. Building (Map No. 12) to the Woonasquatucket River Greenway, view southeast.