

The FRAME Update

Parks, Arts & Culture Committee
January 24, 2024



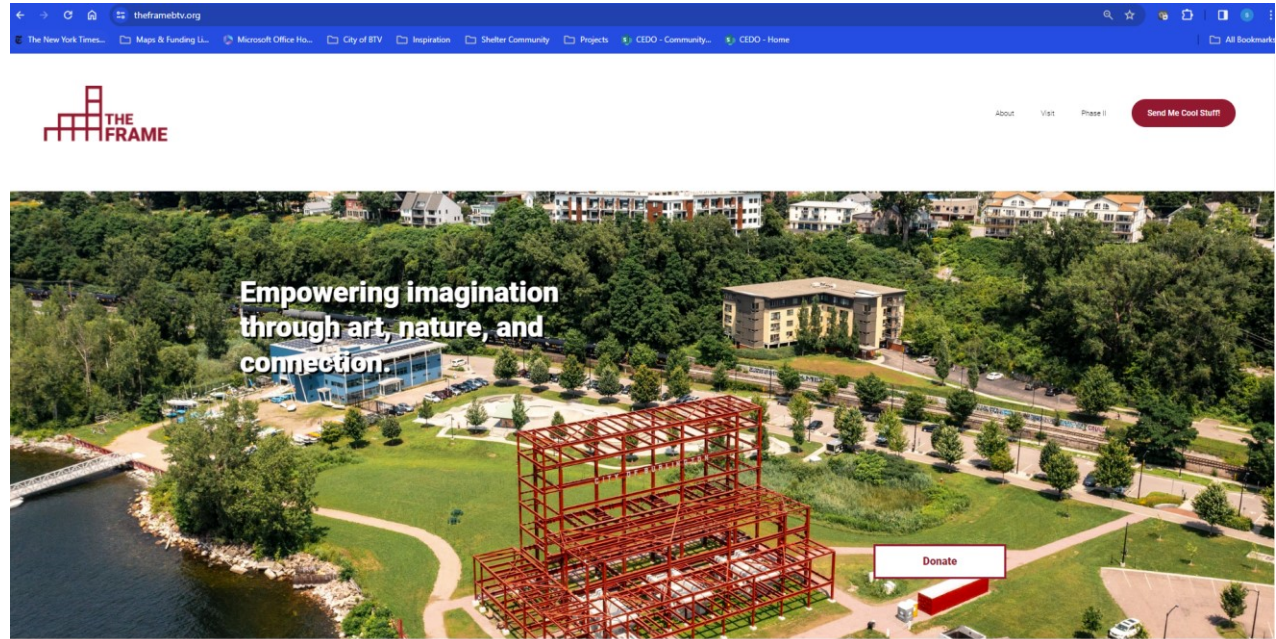
Friends of The FRAME: 2023 Programming & Activations

Phase 2 Vision

Next Steps

Friends of The FRAME

Organized to facilitate the sustained use of The Frame as an inclusive, ever-evolving public space, Friends of The Frame endeavors to present high-quality public programming, support ongoing stewardship, and empower local creativity in all of its forms.



Friends of The FRAME PILOT

the City is interested in piloting the Friends of Frame concept that has been proposed to provide dedicated and ongoing support of the FRAME as a public amenity and destination. Friends of FRAME is an independent entity that is organized to support and advance the community offerings, activities and special projects at the FRAME. The pilot phase will allow Friends of FRAME to build a foundation of relationships and sponsors and programming experience at the FRAME with financial and staff support from the City. At the same time it will provide the activation and programming approved by the City to celebrate this new chapter at the Moran site and build support for future phases.

- Friends of The Frame / City of Burlington Contract, 7/11/2022

FRAME Pilot & Better Places grant

Free public amenities

- + Bench swings, including a wheelchair accessible swing
- + WiFi hotspot
- + Picnic tables
- + Public restroom pilot with Burlington-based Wasted*

Art & activation

- + Illuminated “The FRAME” signage
- + Comprehensive historical information panels
- + Interactive community chalkboard
- + “Blue Alchemy” art installation
- + All-ages lawn games

Infrastructural support

- + Shipping container for secure onsite storage
- + Packed gravel path network
- + Custom temporary event fence system



FRAME Pilot - Events & Community

Movie Nights at The FRAME

- + 11 scheduled events, 6 rainouts
- + When weather was nice, the typical crowd was 50-100+
- + Food & beverage vendors
- + BCA team assisted with projection and sound
- + No security incidents
- + Learned a lot!

Blue Alchemy Opening

- + ~50-60 people over the course of the evening
- + Live music (sound was actually pretty good)
- + First event with no BCA assistance

Heartsong Aerial Arts Pop-Ups

Joy Riders & Vermont Skate Society Meetups

Betty's Bikes

- + Lease with BPRW



Friends of The FRAME: 2023 Programming & Activations

Phase 2 Vision

Next Steps

Phase 2 Vision - Taking the Frame from 'Safe' to Spectacular

Goals:

- + Improve accessibility and enjoyment for all ages and abilities
- + Create opportunities for year-round activation of the Frame and waterfront
- + Strengthen connectivity with adjacent destinations and park spaces
- + Build upon what people are already doing at the Frame
- + Introduce new public amenities that compliment those in nearby areas

PHASE II CONCEPTUAL DESIGN & SCOPING MVVA TEAM PROPOSAL

We would be honored to work with City Project Team to create a public realm that elevates the experience of the Frame and secures a bold transformation of Burlington's northern waterfront park system. Thank you for considering our team and please let us know if you have any questions about our proposal.

Yours Truly,



Matthew Urbanski, Principal
Michael Van Valkenburgh Associates, Inc.

Phase 2 Vision – Public Engagement

Public Meeting – September 13, 2023 (50+)
UVM Design Innovation Class
BHS City & Lake Semester Class
Post Card & Online Survey

Survey Distribution

ONLINE

Postcard QR Code
Front Porch Forum
CEDO Website
MVVA Instagram
FoTF Social Media
Seven Days Ad
QR Code On-site

PRINT

Miller Center
Leddy Arena
ONE Community Center
Fletcher Free Library
645 Pine
King Street Youth Center
Leddy Beach Bites
Movie Nights at the Frame



Phase 2 Vision – Public Engagement: Postcards

Imagine a place with...

What are you excited about coming to life at The Moran Frame?
Check off your favorites & leave a comment on the back of this card. Results will be shared with the Design Team and at the first Public Meeting later this year!



Waterfront Seating



Public Art



Water Play



Waterfront Grilling



Unique Open Space



Fun for All Ages



Views up High



Vendors/Markets



Fun for All Seasons



Concerts/Theater



Restrooms/Pavilion



Connections



More Plantings



Neighborhood Park



Fun for All Abilities



68
Postcards
Returned

Phase 2 Vision – Public Engagement: Postcards

After years of planning, Burlington's opportunity to make The Moran Frame one of the most spectacular public spaces in the country begins now, and we want to hear from you! Is there an experience missing along the waterfront that you'd like to see incorporated? Use the space below to submit your comments.



Scan the code above to download a card.

Swimming Pool that is free for public access -
Waterfront cafe - searing food + drink trucks
Please + Thank You

DROP OFF OR MAIL T

Community & Economic Development Office, City Hall
149 Church Street, Rm 32
Burlington, VT 05401



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I'd like the City to research the feasibility of a "ski-lift" running from atop the Moran To a tower located somewhere in Battery Park, or wherever more practical.
Vermont has plenty of ski lifts, expertise, and an attraction like this would attract visitors, making the Trip To and from the Waterfront Unique and alleviate car traffic down there.

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Place to hang out by the water by all ages - green space + fun for families all seasons - swim beach has been a part of this. Public beach had a lot of interesting plants, swimming, water, ice skating, but the path + structure + view is missing. Floating wooden walkway + picnic area + dog friendly + water play. More water + some public + the fountain - it possible all public access, not least not easy to promote water, Fire beach. Truly, water, still provide a public park, not just a park. Play area for all.

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Make it a place that draws people together to play, relax, engage, share and connect.
Emphasize interest that reaches across socio-economic and cultural divides.

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Scan the code above to download a card.

TAKE ADVANTAGE OF THE STRUCTURE TO HAVE SOME GREAT VIEWPOINTS FOR ALL AGES AND ALL SEASONS! IMPORTANT TO BRING MORE PEOPLE TO VISIT THE WATERFRONT - ALL YEAR ROUND! BRING LIFE TO AN EMPTY STRUCTURE

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Scan the code above to download a card.

1. Tear down the Moran Plant's remaining framework and sell the steel.
2. Make a bio-dome learning center with paths leading through a mix of structural + labeled gardens which include examples of native grasses, flowers, ground covers, etc. + fruit trees and edible bushes.
- I am horrified by the lack of local children and adults who still know so little about "Native" plants, especially the healthy edible varieties! Thanks!

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Scan the code above to download a card.

Starting to enjoy the shelter structure but would love to have a screen for outdoor movie viewing and select # of food trucks available.
There are so many talented artists in town and public art is always enjoyable. Winter time skating - not hockey but remember to Rockfield Center rink - protected from cold winds off the lake somehow.
Thank you for everything! - 116 Penn - 1500 Hand Ball, weekend

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I appreciate the creation of this process! Accessible space + services, market space for year-round small vendors sounds good, as does creative gardens, and have a walkway with a view. Great to think about something that connects other areas of the waterfront Park.

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It should be a place where all people feel welcome and can enjoy the space.

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Although many of the ideas depicted on the front are good, I think the City should create a space that takes advantage of the height & unique structure of the frame - allow access up & through it!

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Scan the code above to download a card.

So much potential. I love Friends of Frame! Check out the Iframe Farmers Market - Permanent Vendor Space + covered... means no/less hassle for vendors and all-weather (or near!) access!
Thank You!

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Scan the code above to download a card.

We need to create something unique that isn't already available along the beautiful waterfront

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Phase 2 Vision – Public Engagement: Online Survey

<https://thj79m9ottl.typeform.com/to/RuOuLpFr>

502
(and counting)
Online
Survey
Responses

1 → What are you most excited about coming to life at The Frame?

Choose as many as you like

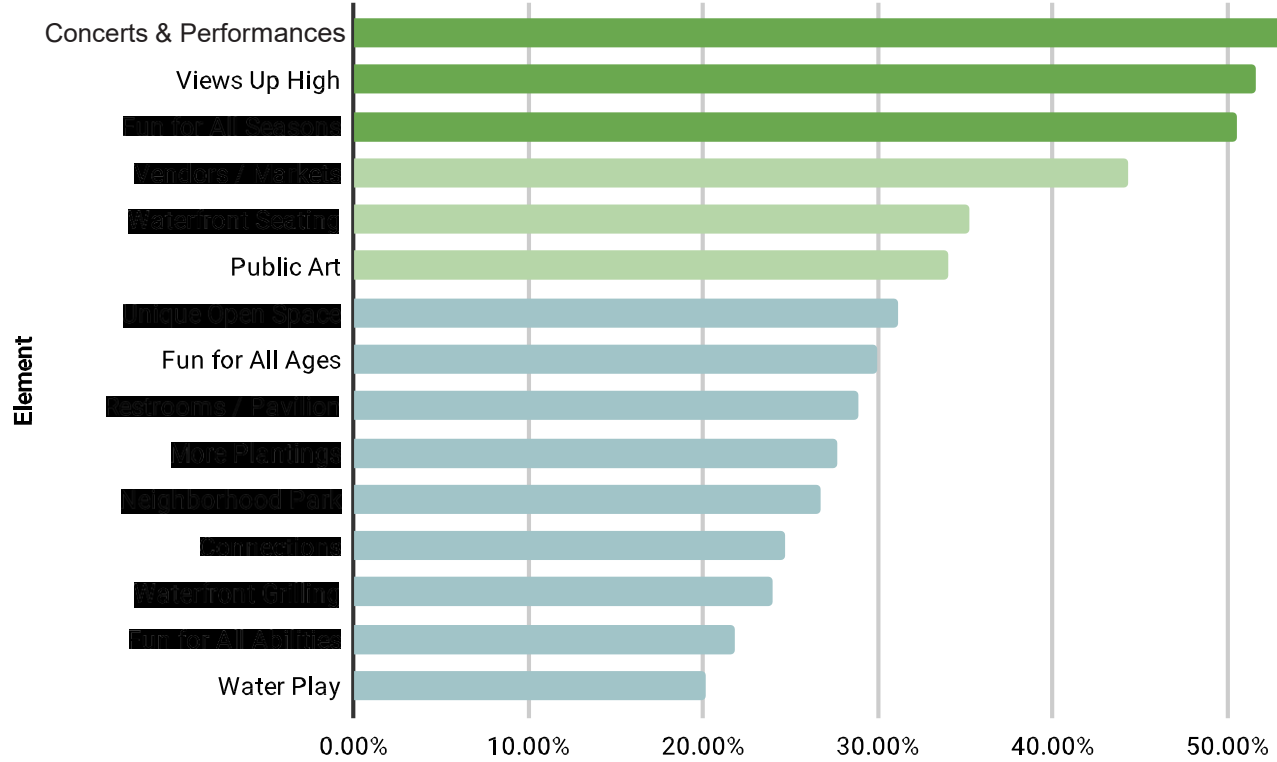
 <p>A Waterfront Grilling & Picnic Celebrations</p>	 <p>B Amenities with Multi-Seasonal Appeal</p>	 <p>C Park Paths Connected to Adjacent Neighborhoods</p>	 <p>D Moments of Connection for All Ages & Abilities</p>
 <p>E New Ways to Engage with the Lake</p>	 <p>F Site-Specific Art & Moments of Expression Outdoors</p>	 <p>G Interactive Water Features (Non-Lake)</p>	 <p>H Unique Open Spaces with Panoramic Views</p>
 <p>I Play Spaces for All Ages and Abilities</p>	 <p>J Being Elevated Up into the Frame & Landscape</p>	 <p>K Food & Beverage Vendors/Markets</p>	 <p>L Concerts & Performances, Day or Night</p>
 <p>M Park Pavilion with Restrooms & Information</p>	 <p>N Connectivity with Surrounding Park Spaces</p>	 <p>O Integration of The Frame & Landscape</p>	 <p>P Other</p>

OK ✓

Survey Responses (550+)

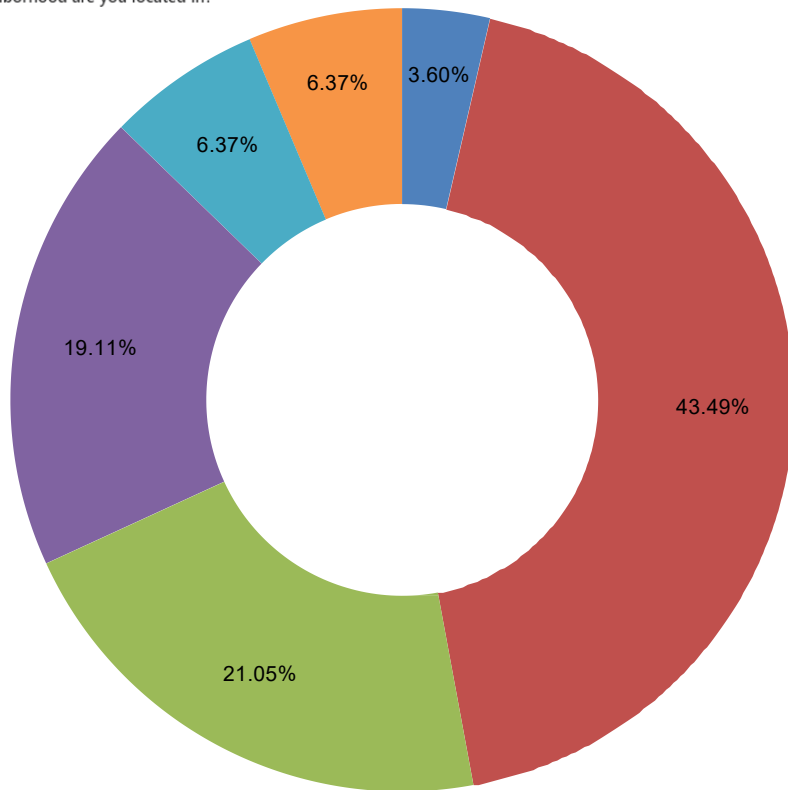
	Online	Post Cards	Total Respondents
TOTAL	486	64	550

1 What are you most excited about coming to life at The Frame?



Survey Respondents by Neighborhood

2 Which neighborhood are you located in?

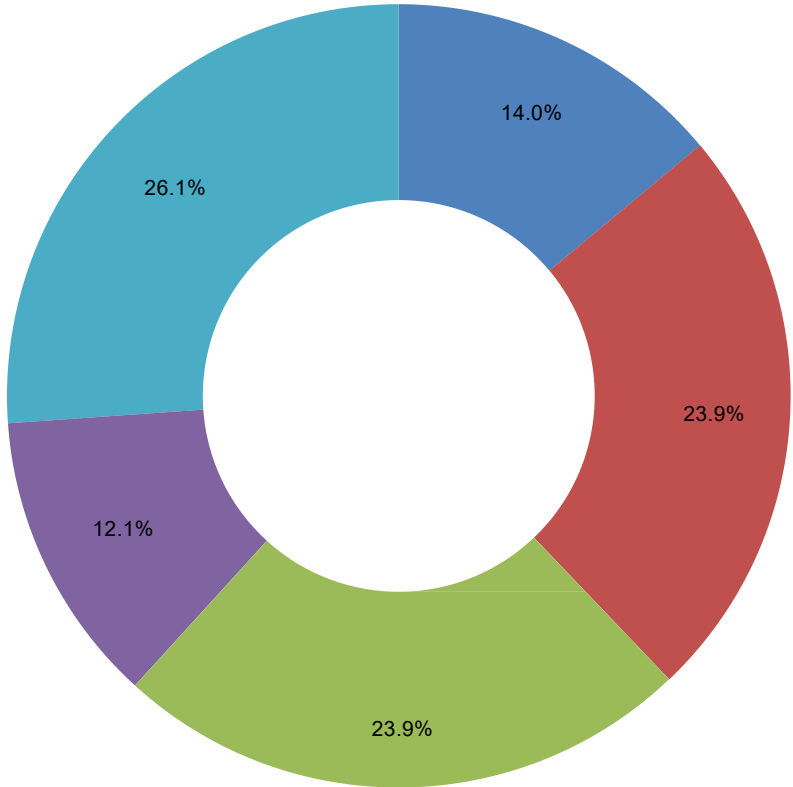


- Centennial Woods / Riverside
- Downtown / Old North End / Waterfront
- New North End
- South End
- Hill Section / University Housing
- Burlington (no neighborhood provided)

Note: This information was only available for online survey responses, not the postcards (so about 12% of the total respondents are omitted).

Main Takeaway: The most responses were from Downtown, the Old North End, and the Waterfront. These neighborhoods are represented almost 2:1 compared to their population percentage of Burlington.

Burlington Population by Neighborhood (2020)



- Centennial Woods / Riverside
- Downtown / Old North End / Waterfront
- New North End
- South End
- Hill Section / University Housing

Census data showing the % of Burlington's population in each neighborhood.

This is intended as a comparison tool to show how closely our "Burlington-based Survey Respondents by Neighborhood" percentages align with the actual population distribution in a certain neighborhood.

Note: This information was only available for online survey responses, not the postcards (so about 12% of the total respondents are omitted).

Main Takeaway: We received a disproportionately high number of responses from the South End.

Phase 2 Vision



JOIN US
Public Open
House
February 8th
3pm – 5pm

Burlington
City Arts
2nd Floor

Friends of The FRAME: 2023 Programming & Activations

Phase 2 Vision

Next Steps

- **Phase 1B**
- **Friends of The FRAME**
Programming & Activations
Phase 2 Capital Campaign



Explore feasibility
of Phase 2 vision

Phase 1B

Phase 1B is a near-term construction phase. The scope of work is a response to lessons learned over the past two years and public feedback gathered during 2023 and is intended to dovetail with the scope proposed for Phase 2.

FOCUS: the ability to host a variety of public events & performances, and vendor infrastructure.

Other items that Phase 1B is likely to include:

- + Connections / anchor points for the large-scale inflatable movie screen
- + Demolition of the “shelves” on the existing concrete pedestals & other misc. concrete repairs
- + A seasonal overhead cover system for vendor areas
- + Water connection(s) at vendor areas
- + Structural steel modifications @ Level 1 to accommodate portable stage at ground level
- + Paved connection to the Burlington Greenway
- + Clean up / Safety at boat hoist and water’s edge

Friends of The FRAME: Programming & Activations

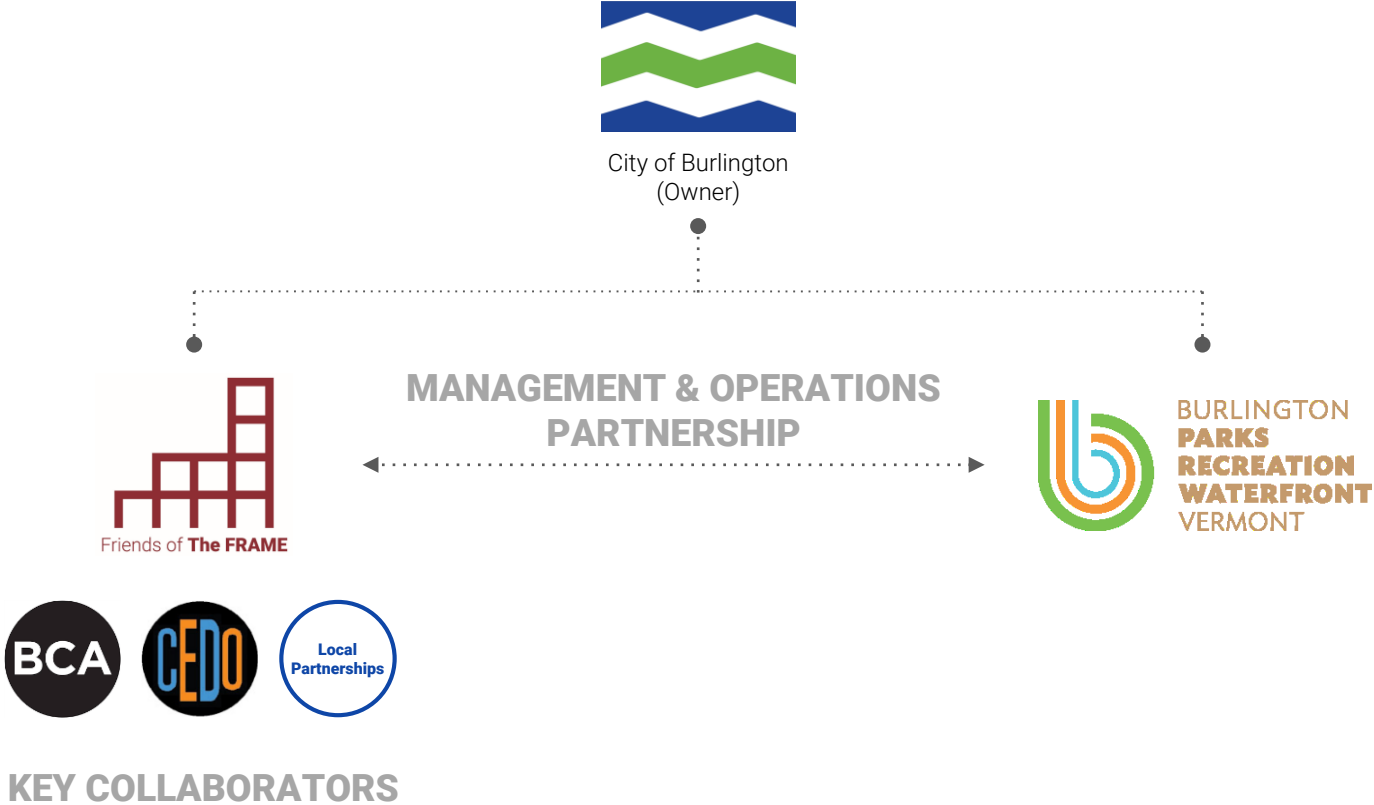
Contract with Friends of Frame to provide programming & activations for the next two summers, including:

- + Movie Nights
- + Live Performances
- + Public Art & Placemaking
- + Marketing & Engagement
- + Public Restrooms in partnership with **wasted*** (Burlington-based startup providing sustainable waste management solutions)

Friends of The FRAME: Phase 2 Capital Campaign

- + Friends of The FRAME, with the support of the City, would hire an experienced fundraising consultant, or team of consultants, to develop and implement a capital campaign strategy. This would include a private fundraising effort and grant writing effort.
- + Friends of The FRAME would facilitate and host a private “speakeasy-style” experience for potential donors and/or project champions to review conceptual design materials (physical model, renderings, cost estimate, precedent images, diagrams, etc.)
- + Prioritize finding “project champions” early on. These would generally be influential, well-connected individuals that may or may not be potential donors themselves. Some may be eventual partners (e.g. Higher Ground). This will help further legitimize the campaign and build momentum before any formal asks are made.
- + We would present the complete vision when courting donors, but we will also be able to communicate the “standalone” value of certain components. Breaking down the project this way, while largely unrealistic in terms of construction phasing, can make the full project value more digestible.
- + Anticipated timeline of 12-18 months (January 2024 - July 2025)
- + **Goal = raise enough capital to support the construction of, at a minimum, the “Essential Elements” of the Phase 2 concept**

Long-Term Management Structure



DRAFT Budget Summary

Sources

Phase 1A Remaining	\$500,000
ARPA Infrastructure	\$600,000
CDBG	\$100,000
Frame Pilot Remaining	\$4,000

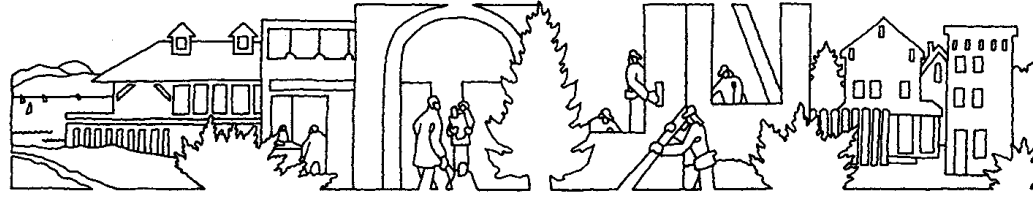
Total \$1,204,000

Uses

Friends of The FRAME 2024 & 2025	\$65,000
Phase 1B	\$600,000
Phase 2 Capital Campaign Feasibility Study	\$40,000
Phase 2 Project	\$499,000

Total \$1,204,000





COMMUNITY & ECONOMIC DEVELOPMENT OFFICE

CEDO-Managed Waterfront Ground Leases & Public Access

January 24, 2024

Background

The City owns lands along the Lake Champlain waterfront that have been redeveloped overtime by private entities under the mechanisms of Development Agreements, Memorandums of Understanding (MOU), and Ground Lease Agreements.

In addition to all construction plans and associated improvements, providing and maintaining public access to the waterfront was a key element in the redevelopment of these sites.



ECHO

Burlington Harbor Marina

Lake Champlain Sailing Center

ECHO Science Center

Public Access

“...at all times public access to the facility and Premises shall be provided to the extent consistent with the primary uses...”



ECHO Science Center

- Ground Lease Commencement Date – June 1, 1995 with an initial term of 99 years
 - Create a center for research and public and/or private education in, information about, and enjoyment of the natural, historic, social, or cultural environment
 - ...at all times public access to the facility and Premises shall be provided to the extent consistent with the primary uses specified herein.
- The purpose of this Lease is to allow Science center to construct, reconstruct, improve, use, and maintain on the Premises, all at the Science Center's sole discretion and in its exclusive authority, a facility, which may consist of one or more buildings or portions of buildings and other structures and improvements, for research and public and/or private education in, information about, and enjoyment of the natural, historic, social, or cultural environment, and to create, perform, maintain, and provide public and private recreational, cultural, civic, and educational events, facilities, including retail and food service facilities accessory to the primary uses...;

Community Sailing Center

Public Access

2024 Lease Amendment:

- Restroom facilities shall be available to the general public when the facility is open.
- Access and use of the sloped launch (currently under construction) shall be available to the general public when the facility is open.



Community Sailing Center

Purpose: to facilitate the development and operation of an educational and recreational community waterfront center

Ground Lease Commencement Date - March 21, 2016
with an initial term of 30 years

Ground Lease was made subject to:

1.1.3 All rights of way and easements reasonable and necessary **to complete the Waterfront Access North Project**, which do not unreasonably interfere with the operation of the Sailing Center;

1.1.4 The Sailing Center's **public access obligations** for the development and operation of the Sailing Center, including any conservation easement requirements under any agreement to which the City is a party or required by any local state or federal agencies or regulatory bodies with respect to public access, stormwater mitigation, shoreline erosion mitigation or similar waterfront issues;

January 9, 2024 Amendment to Ground Lease

1. Increase the Community Service Credit Cap; and
2. Memorialize general public access to portions of the facility.

Section 20.5 General Public Access

- a) Restroom facilities shall be available to the general public when the facility is open. No members of the general public will be denied access to restroom facilities.
- b) Upon completion of the expansion project, access and use of the sloped launch shall be available for use by the general public when the facility is open.

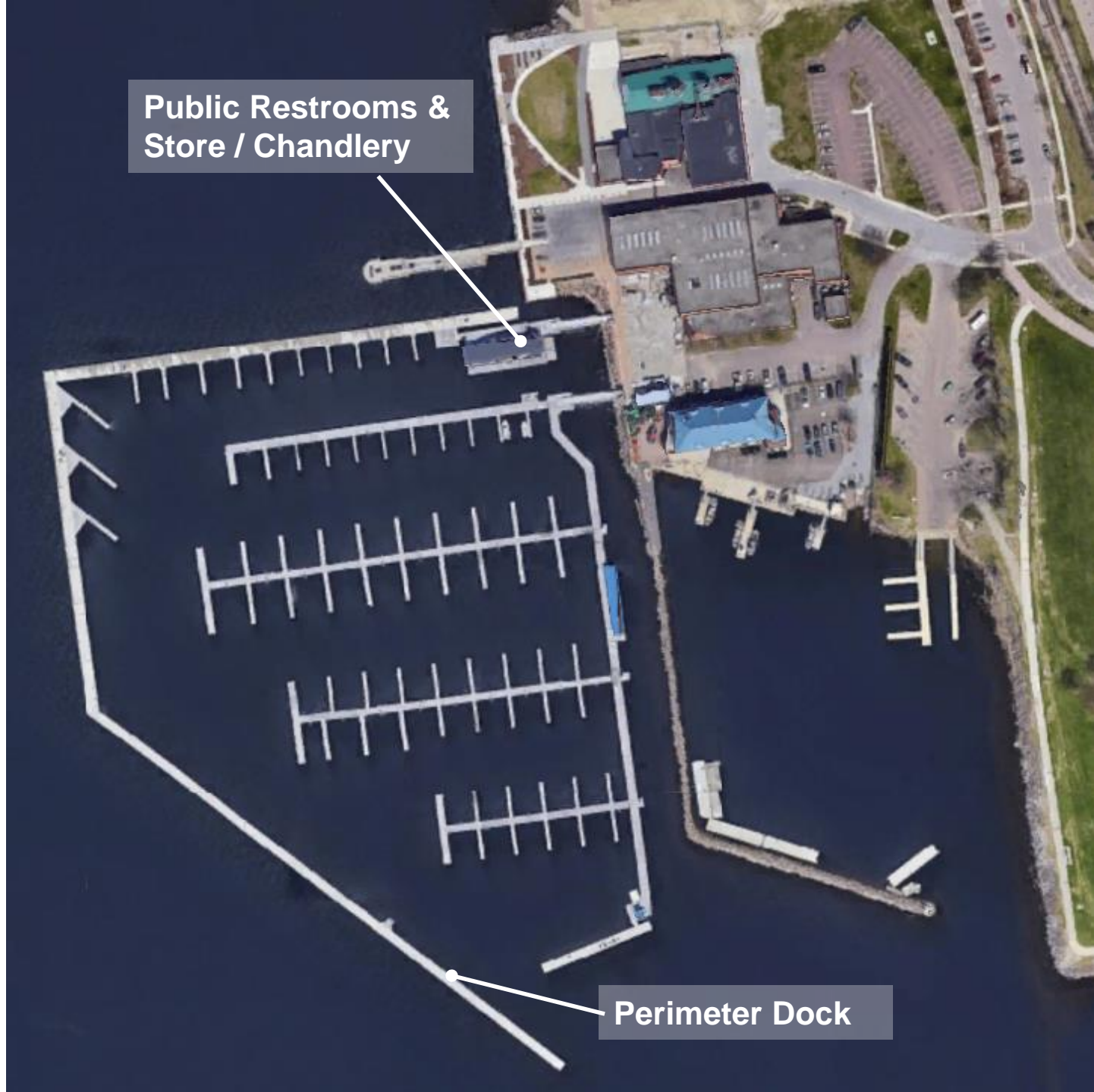
Note: The CSC allowed general public access to the restrooms in the summer of 2023 as a condition of federal funding received for their waterfront improvements that began in the fall of 2023.

Burlington Harbor Marina

Public Access

- **Public restroom facilities** (business hours)
- **Store and chandlery** (business hours)
- **Water Taxi** (business hours)
- **Perimeter dock** (7am –10pm)

"...the following areas of the Marina that will be open in season, during business hours, to pedestrians and the general public (not solely Marina clientele), subject to occupancy limits established by all applicable governmental permits, statutes, ordinances and regulations, with the understanding that priority access will be given to slip holders during certain Marina events...."



Burlington Harbor Marina

The Marina Lot is, as a part of the Burlington waterfront lands subject to the public trust doctrine, which dictates that land submerged beneath navigable waters, including land that has been filled so that it is no longer submerged, must be held in trust for public uses.

Ground Lease Commencement Date – October 25, 2017 with an initial term of 30 years

Project Public Improvements work as shown on the Site Plan

- East Parking Lot
- The Public Park (Waterworks) and development of Water Department Hardscapes
- The Marina Drop Off Plaza
- Improvements in the area of the South Parking Lot

Public Access to the Marina

The parties acknowledge that the Marina shall be accessible to the public.

Tenant hereby agrees that the following areas of the Marina that will be open in season, during business hours, to pedestrians and the general public (not solely Marina clientele), subject to occupancy limits established by all applicable governmental permits, statutes, ordinances and regulations, with the understanding that priority access will be given to slip holders during certain Marina events:

- the public restroom facilities; store and chandlery; and the water taxi stand.

The Marina's **entire perimeter dock** (i.e. the wave attenuation system) shall be open to the general public daily from 7am to 10pm...with the understanding that priority access will be given to slip holders during certain Marina events

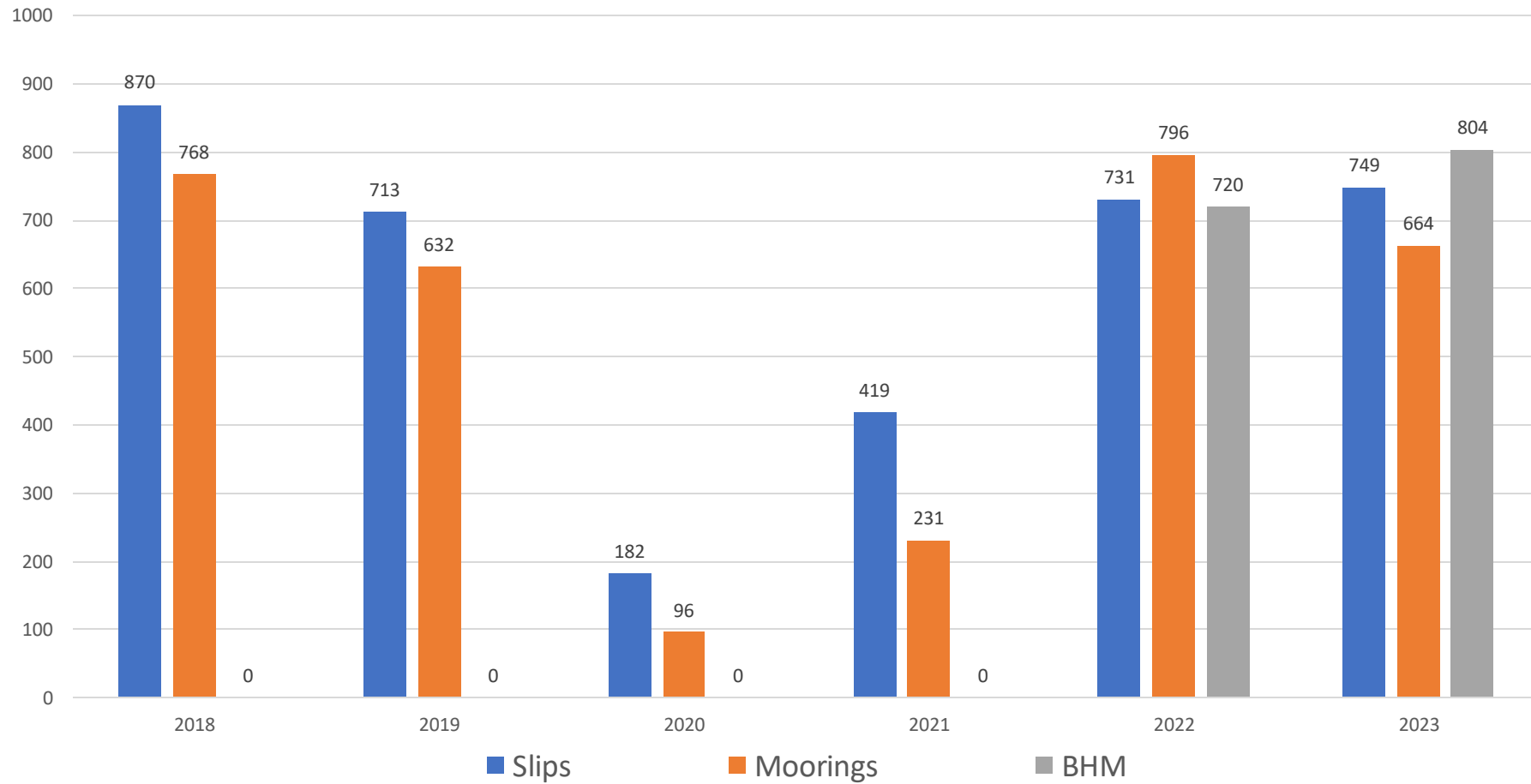


2024 PACC -Waterfront



Marina Usage

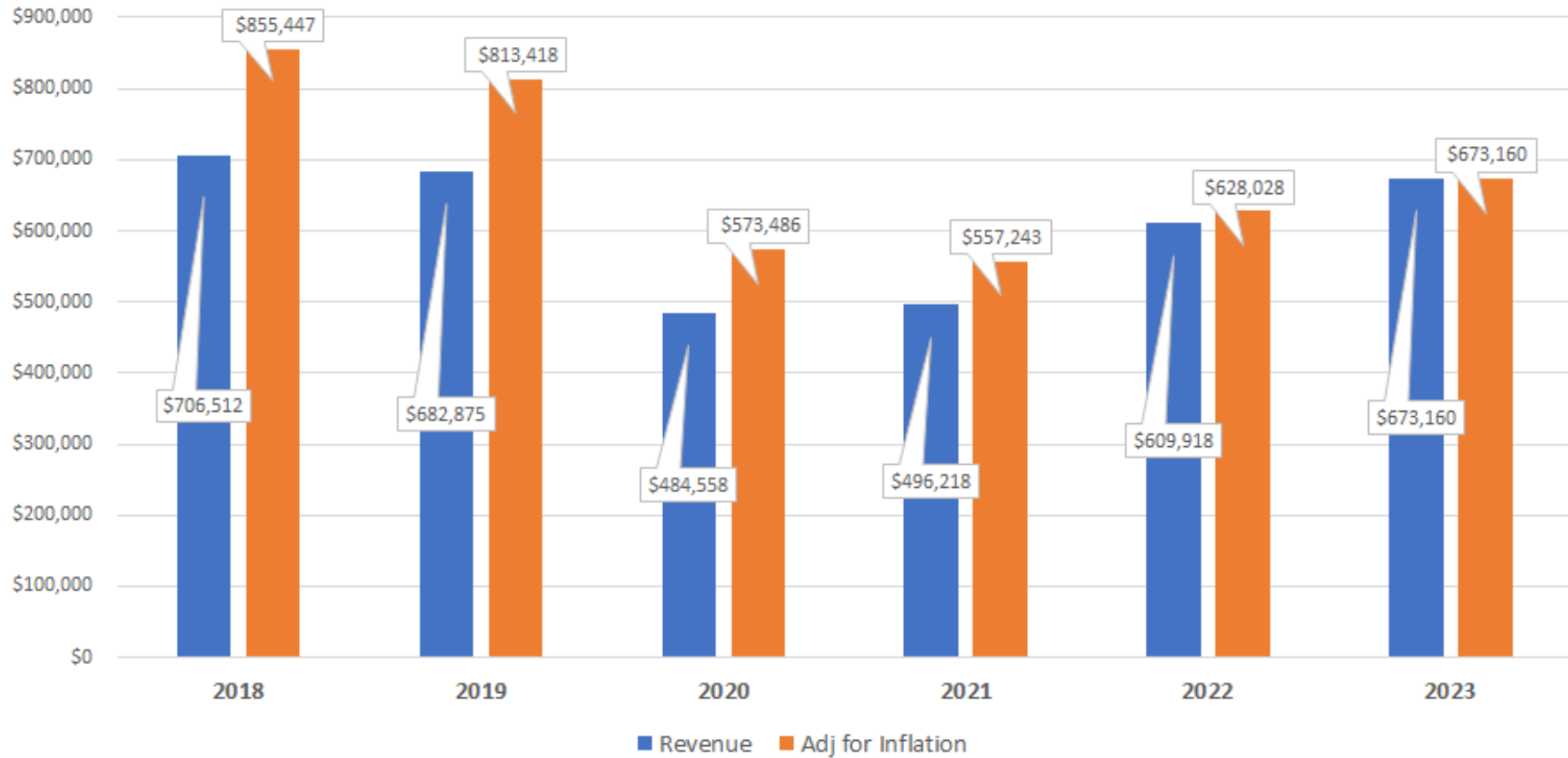
Marina Transient Visitors





Marina Slip & Mooring Revenues

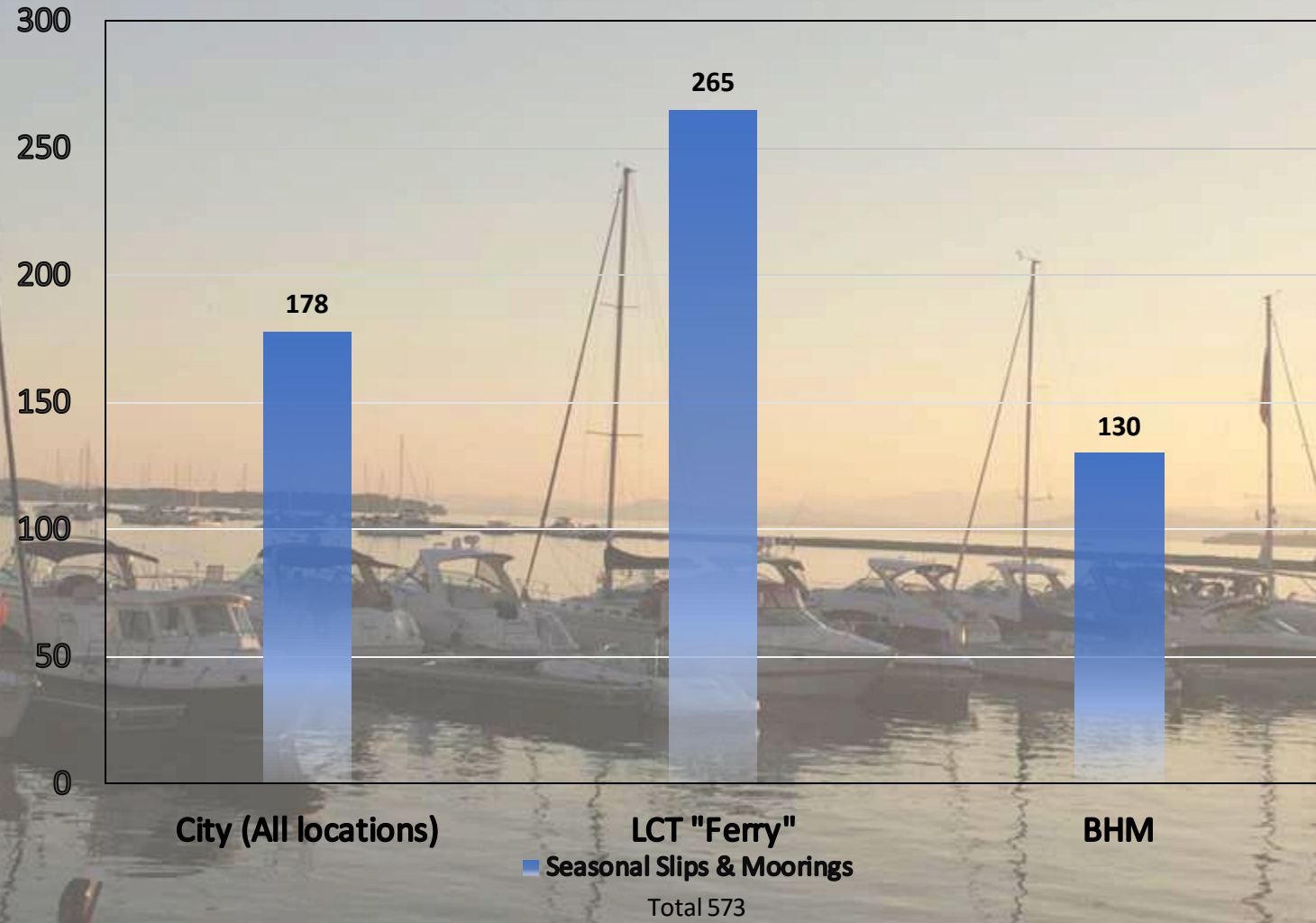
City Marina Revenue



2019 – LCT opened with their first large expansion, BHM opened
2022 – Canadian/US Border fully re-opened

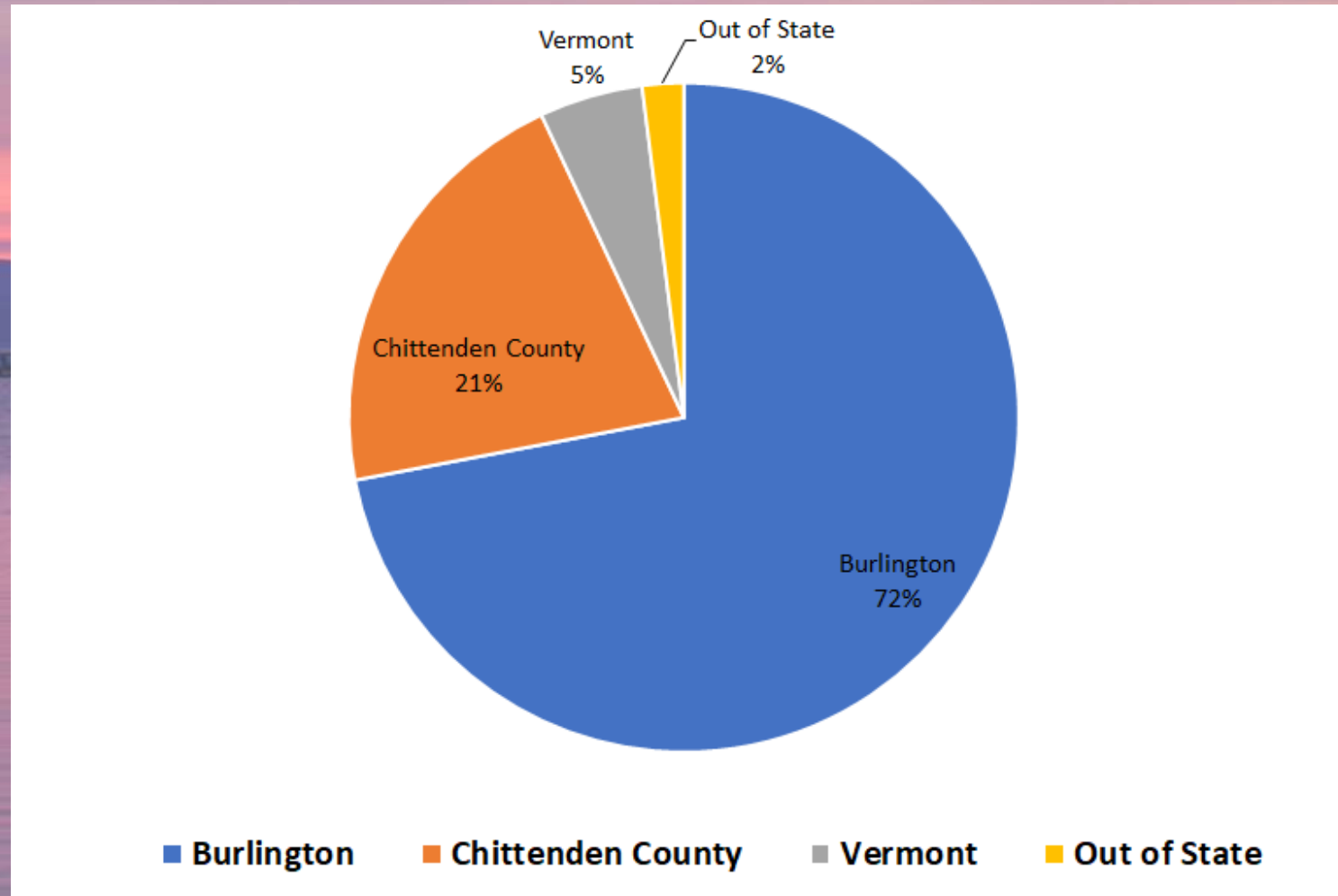


Seasonal Slips Across the Harbor





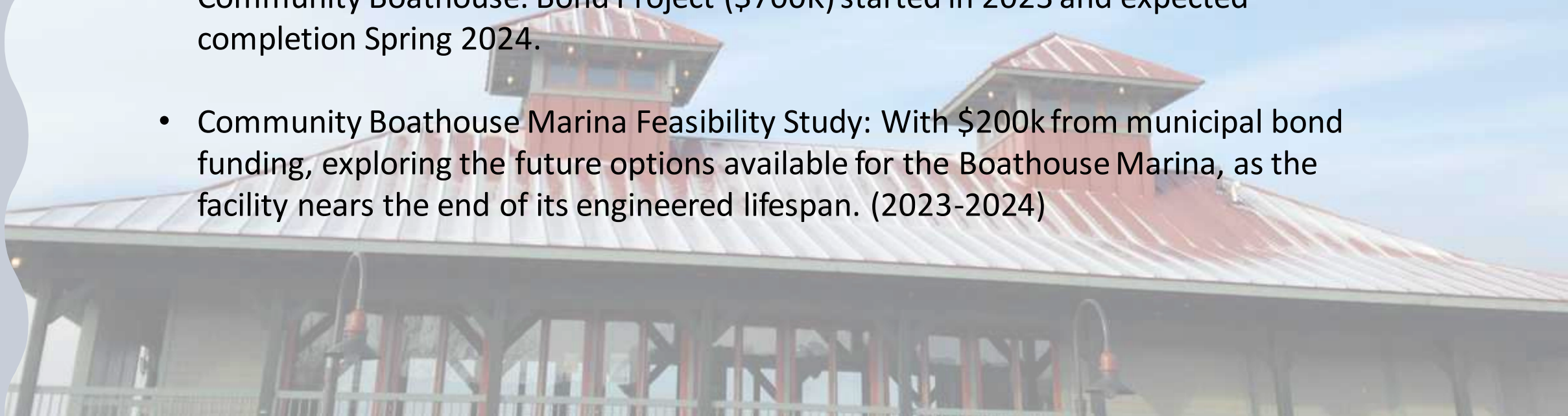
Seasonal Boaters at City Marinas: Breakdown by Home Address





Recent Marina Capital Projects & Investments

- Upgraded Seasonal Moorings at Perkins Pier: Replaced 23 moorings to a safer and more reliable mooring system (2022)
- Security Gates on Boathouse Dock Ramps (2023)
- Dredging Design, Engineering and upcoming Dredging at Perkins Pier and Community Boathouse. Bond Project (\$700K) started in 2023 and expected completion Spring 2024.
- Community Boathouse Marina Feasibility Study: With \$200k from municipal bond funding, exploring the future options available for the Boathouse Marina, as the facility nears the end of its engineered lifespan. (2023-2024)





Looking Forward: Future Projects & Direction

- Community Boathouse Marina Facility: Looking forward to finding solutions pertaining to the viability and future of this facility. We will have robust community engagement addressing the future of this Facility while understanding its past history in Burlington Harbor.
 - Themes: Public, Accessible, Recreation & Tourism
- Water Quality & The Impacts to our Recreational Waters
- Perkins Pier: Chart a course forward to how we can bring realistic improvements to the site. Siting study already complete.
- Tourism & Downtown vitality –Focus on the Waterfront/Downtown connection and how we can grow our strengths within the tourism field.

PERKINS PIER - SITING STUDY

**Parks, Arts and Culture Committee
January 22nd, 2024**



BURLINGTON
**PARKS
RECREATION
WATERFRONT**
VERMONT

PERKINS PIER SITING STUDY

Comprehensive Planning Process 2021-2022

- 4 stakeholder meetings
- 3 public meetings
- surveys
- winter onsite pop up



The poster features a stylized landscape with a blue sky, yellow sun, green hills, and a blue body of water. A sailboat with a yellow sail is on the water. The text is centered and includes the title, event details, and a list of languages.

Perkins Pier Re-imagining

Join us online for our first public workshop @ 7pm on 3/16

Interpretation Services Available
(call 802-865-7248)

我说中文 Mandarin Chinese	Yo hablo español Spanish	Ndavuga ikirundi Kirundi	म नेपाली बोल्न Nepali
Govorim Bosanski Bosnian	Je parle français French	Ngóh sǎk gǎng Gwóngdǒngwá Cantonese	Mimi Sema Kiswahili Swahili
ငါတို့ဘာသာပြောသည် Burmese/Karen	Waxaan hadal Soomaali Somali/Afa. Ma.	استطيع ان اتكلم العربية Arabic	Tôi nói tiếng Việt Vietnamese



PERKINS PIER SITING STUDY



Access & Destinations

Perkins is known as a neighborhood pier, and is accessible on foot to many neighborhoods and anchor parks in Burlington, including South End, Downtown and Old North End.

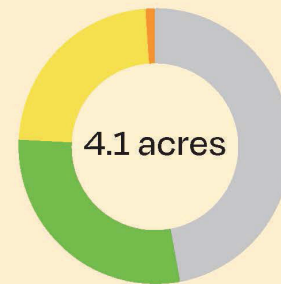
23

"Perkins Pier is an affordable, blue-collar marina, enjoyed mostly by locals"

PERKINS PIER SITING STUDY

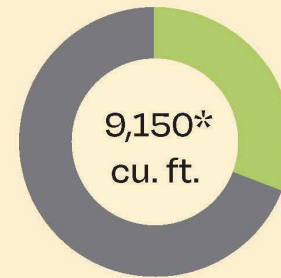


The Site Today



Land Use

- 47.1% Parking
- 28.7% Green Space
- 23.1% Hard Surface
- 1.1% Building



Permeability

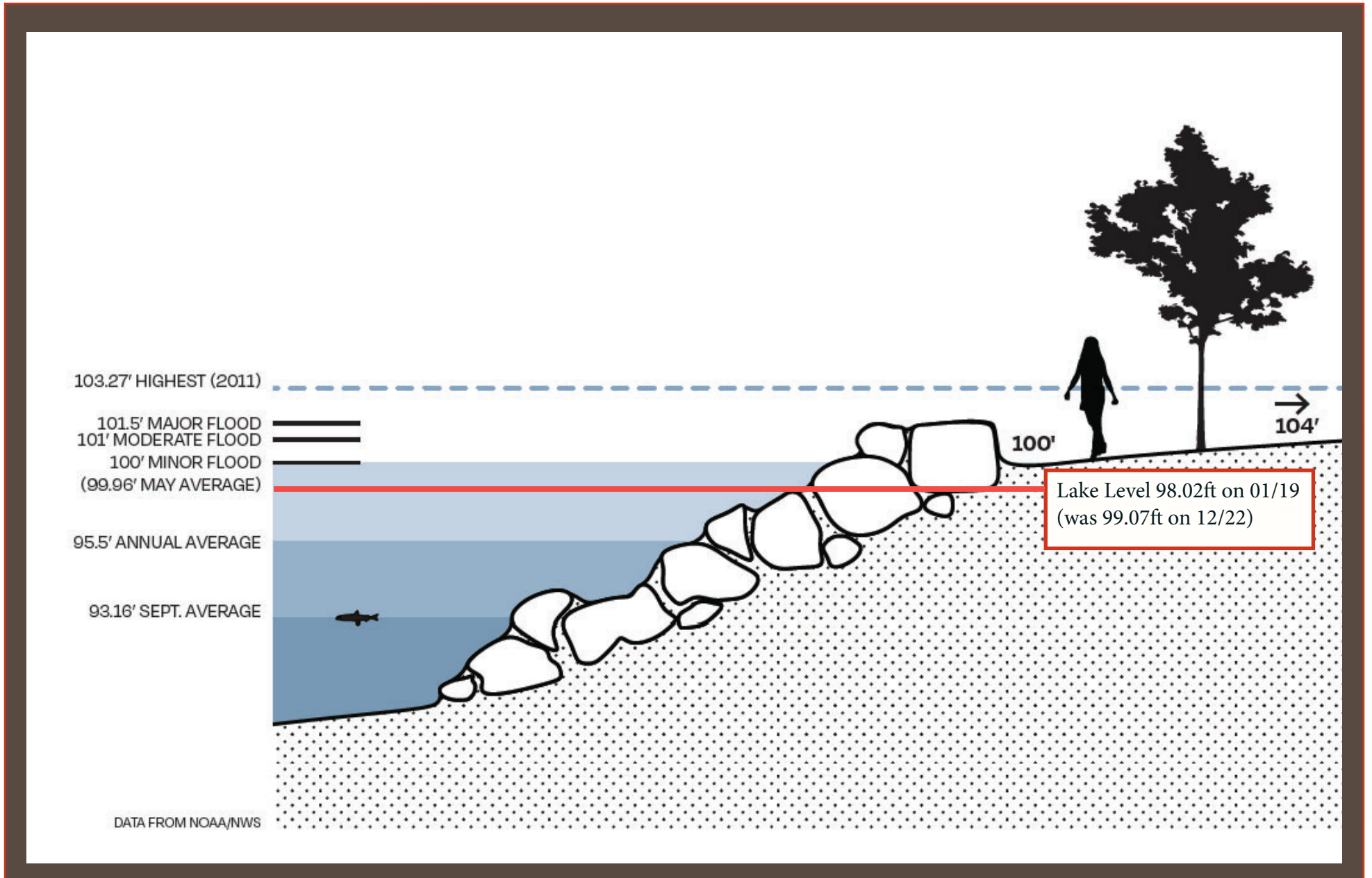
- 65% Impervious
- 35% Pervious

* "First Inch" water quality volume

30

"The park should offer improved amenities for non-boating visitors."

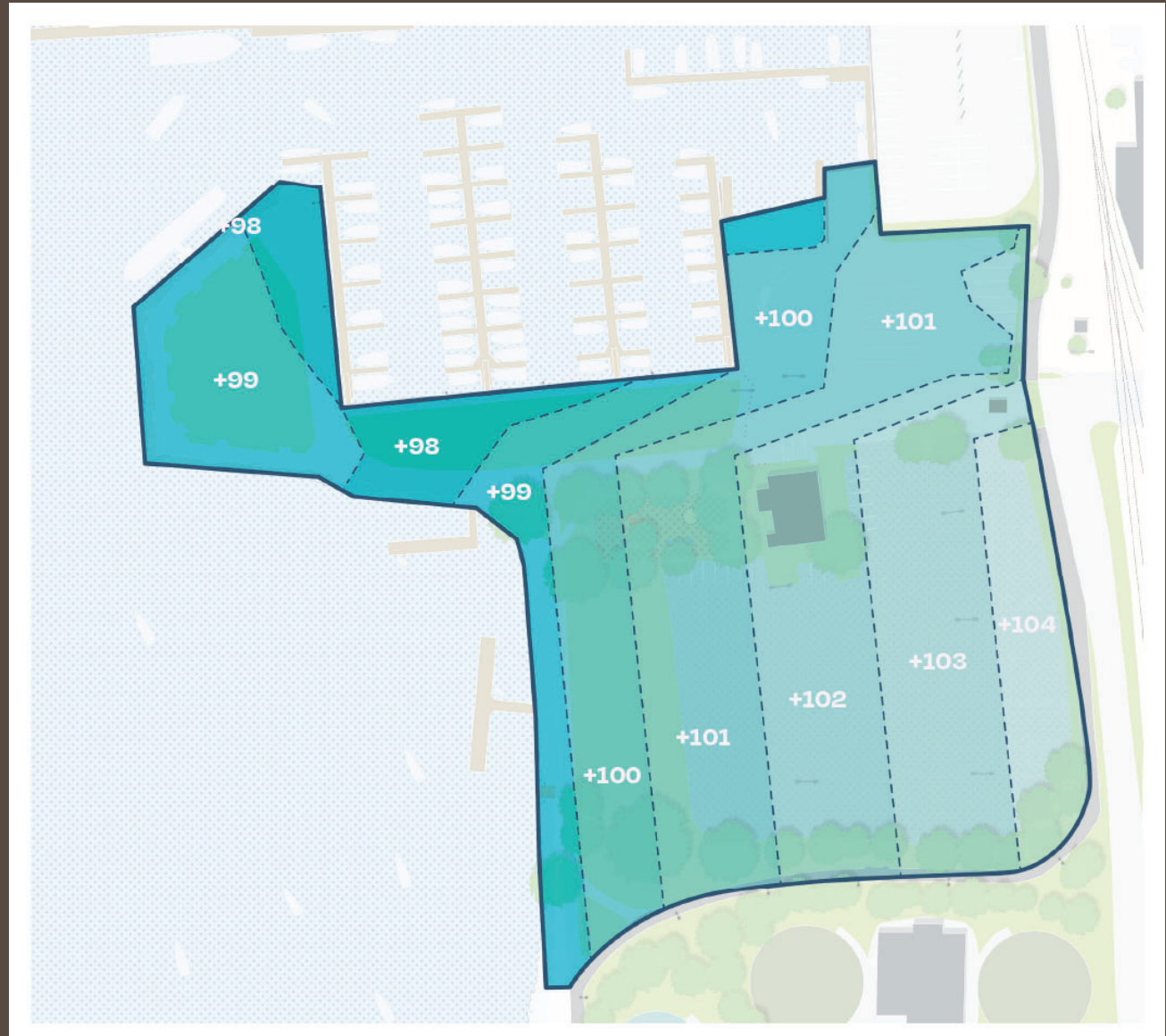
PERKINS PIER SITING STUDY



PERKINS PIER SITING STUDY

Flood Levels in 2011:

103.27' - included flooding of the Lyman Building, which includes public restrooms.

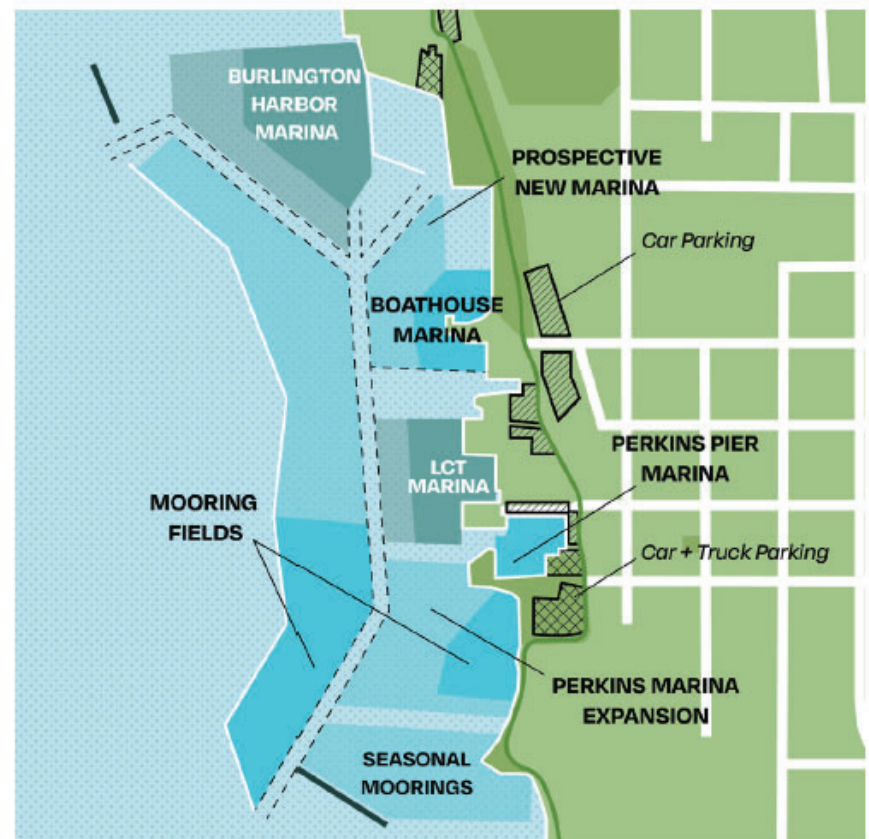


PERKINS PIER SITING STUDY



- City-managed
- Private

Current Slips in Market: 629
 Maximum Slip Capacity: 990 - 1130














- City-managed + expansion
- Private + expansion

Potential 2030 Slip Demand: 720 to 800
 Potential 2040 Slip Demand: 750 to 860

PERKINS PIER SITE PLAN



-  Play area
-  Secured dinghy dock
-  Public dock
-  Buildings
-  Benches/Tables
-  Trees
-  Greenway
-  Vehicular circulation
-  Pedestrian access
-  Secondary vehicular access
-  Railroad



PERKINS PIER SITE PLAN

 Greenway



PERKINS PIER SITE PLAN

 Play area



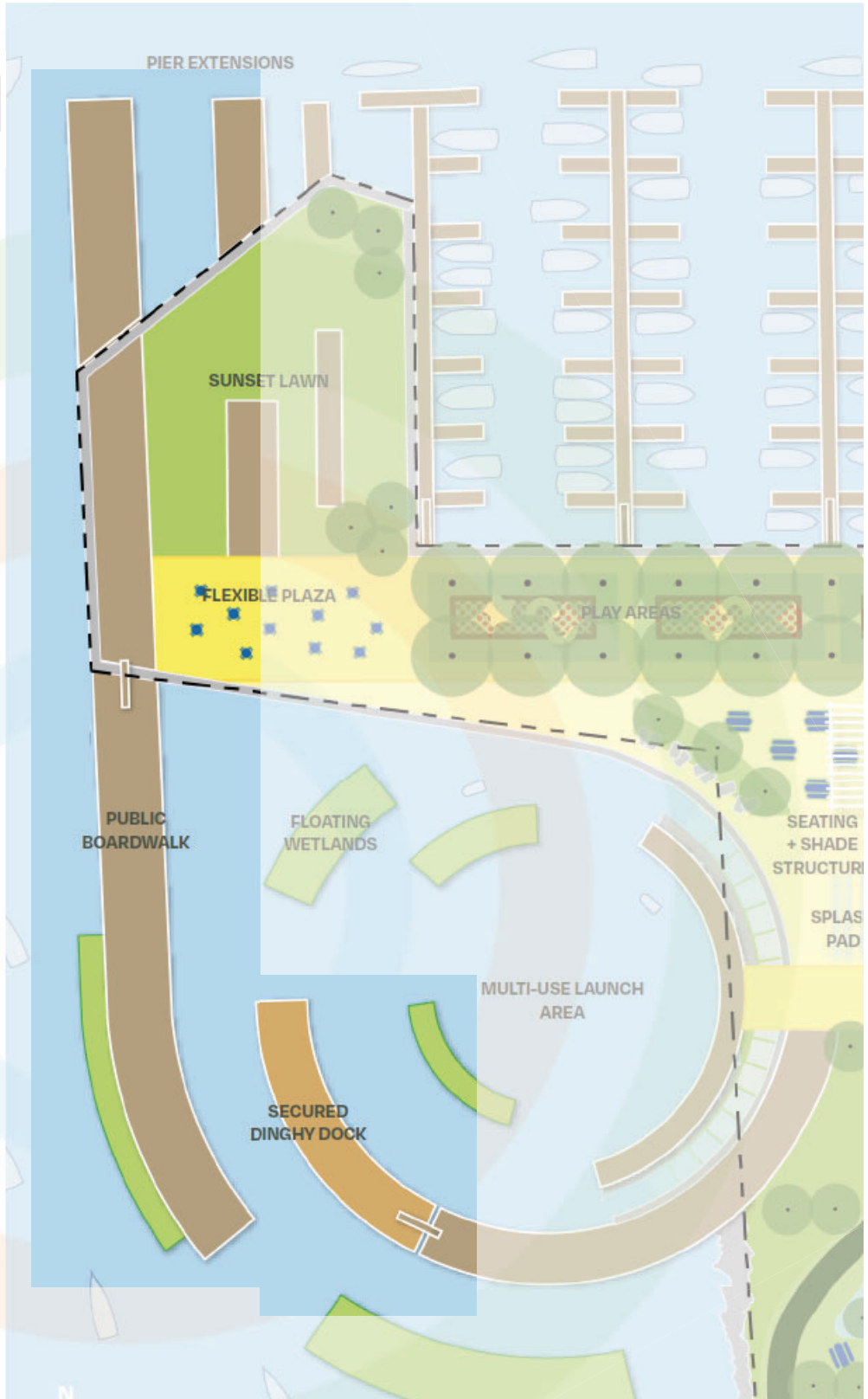
PERKINS PIER SITE PLAN

 Buildings



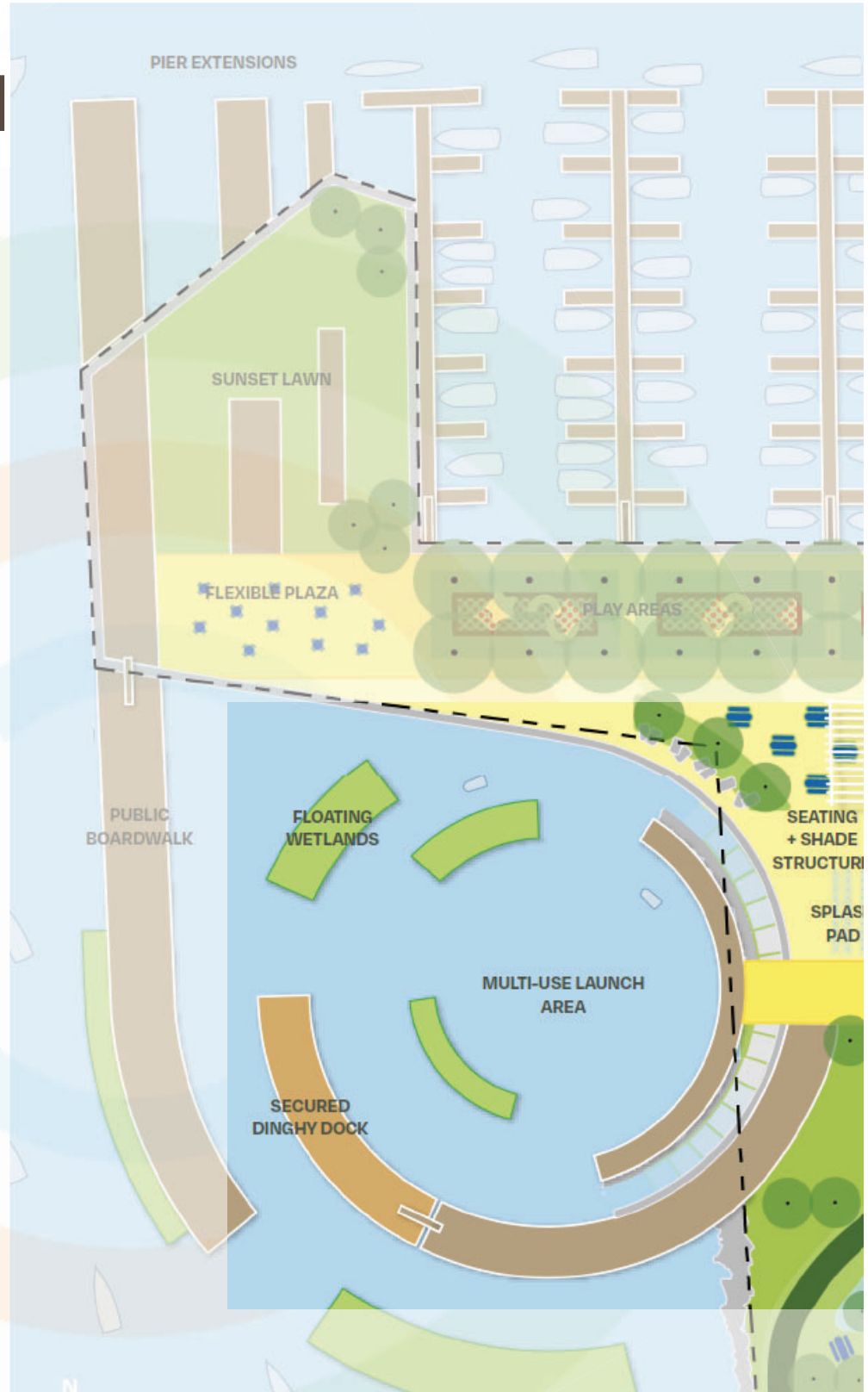
PERKINS PIER SITE PLAN

- Secured dinghy dock
- Public dock



PERKINS PIER SITE PLAN

- Secured dinghy dock
- Public dock

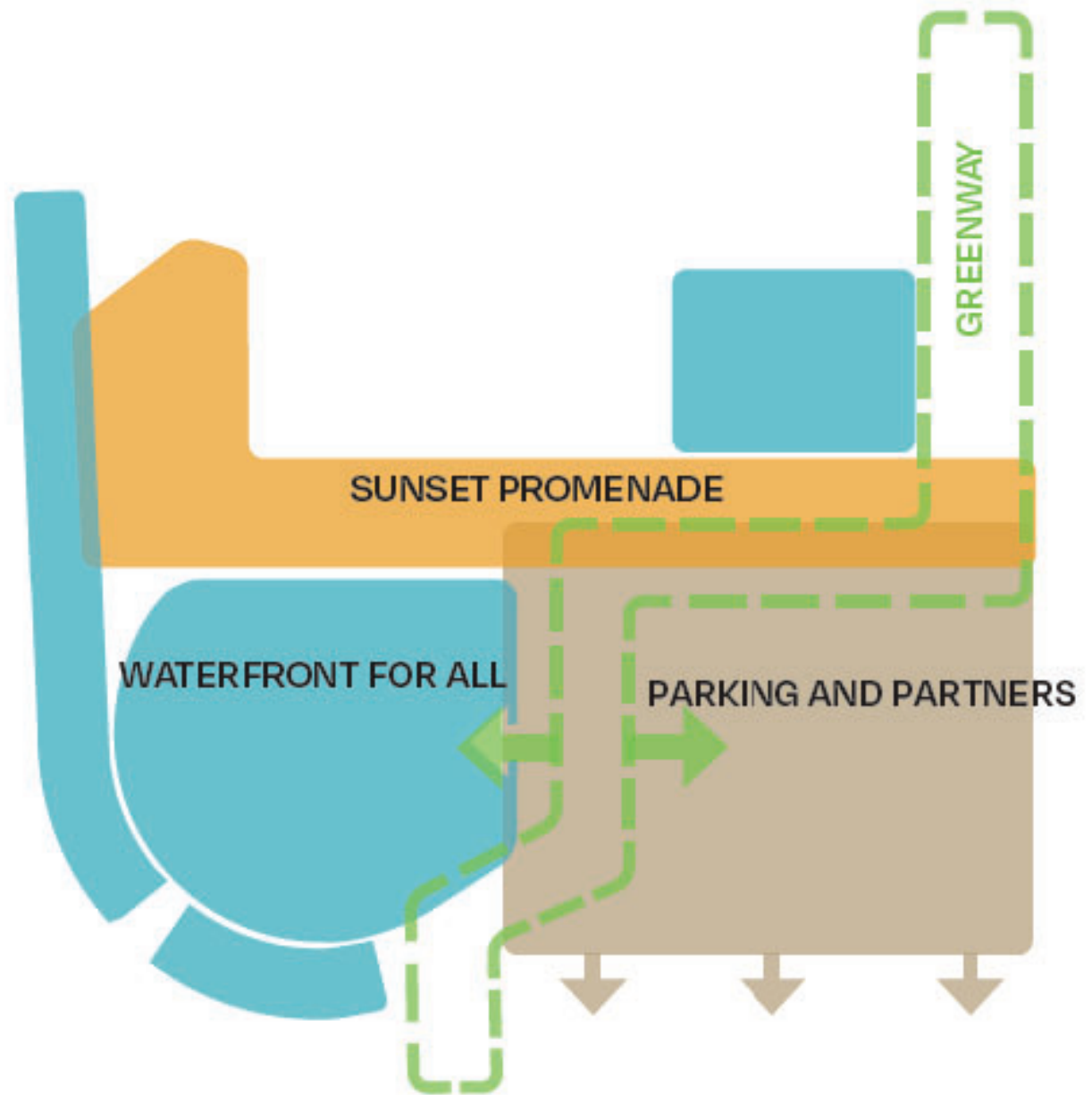


PERKINS PIER SITING STUDY

Prioritizations per public input:

Waterfront for All

*there is enabling work that needs to occur for all projects: permitting, review of easements, encumbrances and invisible investments like sheet piling and the need for a BPRW maintenance building, growing private partnerships for a public-facing building, etc.



Thank you!
Questions?

Sophie Sauvé
Parks Comprehensive Planner
ssauve@burlingtonvt.gov



BURLINGTON
**PARKS
RECREATION
WATERFRONT**
VERMONT

Improve and Modernize WWTFs for Burlington's Future



Environmental

Improve ability to meet water quality standards for Lake Champlain



Resiliency

Increase resiliency of critical wastewater treatment infrastructure and equipment against flooding and other natural disasters



Capacity

Increase capacity of Main WWTF to accommodate growth within the community



Work Safety

Improve working conditions for City staff



Odors

Reduce off-site odors from Main WWTF

WASTEWATER PLANT UPGRADE STAGES

0

1

2

3

Headworks Upgrade

- Main, North and East WWTFs
- Replace influent screen and grit removal equipment
- Upgrade North and East Headworks Buildings
- Improved working conditions (safety) in the areas with equipment improvements

Main WWTF

- Primary treatment covers and odor control
- New secondary treatment tankage
- Dewatering system upgrade
- Tertiary treatment
- Electrical distribution system replacement

Conversion of East Plant into a Pump Station & North High Priorities

- Construct East PS and FM
- Improvements to Main WWTF collection system
- North WWTF clarifiers, pumps, and Control Building

North and Main WWTFs

- Main CSO pumps
- Main Building improvements (inc. ventilation and odor control)
- Main and North sludge pumps

Engineering Support:

- Wright Pierce is assisting with WWTF Planning
- Hoyle Tanner & Assoc. is assisting with Tertiary Treatment and Integrated Planning

WWTF Improvement Stages

0

Headworks Upgrade

- Design 2023-2024
- Construction 2024-2026
- Cost Estimate \$12.8M
(Included in 2018 Bond)

1

Main WWTF

- PER 2023-2024
- Design 2024-2025
- Construction 2025-2027
- Cost Estimate \$121 M

2

East PS Conversion & North WWTF

- PER 2023-2024
- Design 2025-2026
- Construction 2026-2028
- Cost Estimate \$38 M

3

North & Main WWTFs

- PER 2026-2027
- Design 2027-2028
- Construction 2028-2029
- Cost Estimate \$82 M

WWTF Improvement Stages

0

Headworks Upgrade

- Design 2023-2024
- Construction 2024-2026
- Cost Estimate \$12.8M
(Included in 2018 Bond)

1

Main WWTF

- PER 2023-2024
- Design 2024-2025
- Construction 2025-2027
- Cost Estimate \$121 M

2

East PS Conversion & North WWTF

- PER 2023-2024
- Design 2025-2026
- Construction 2026-2028
- Cost Estimate \$38 M

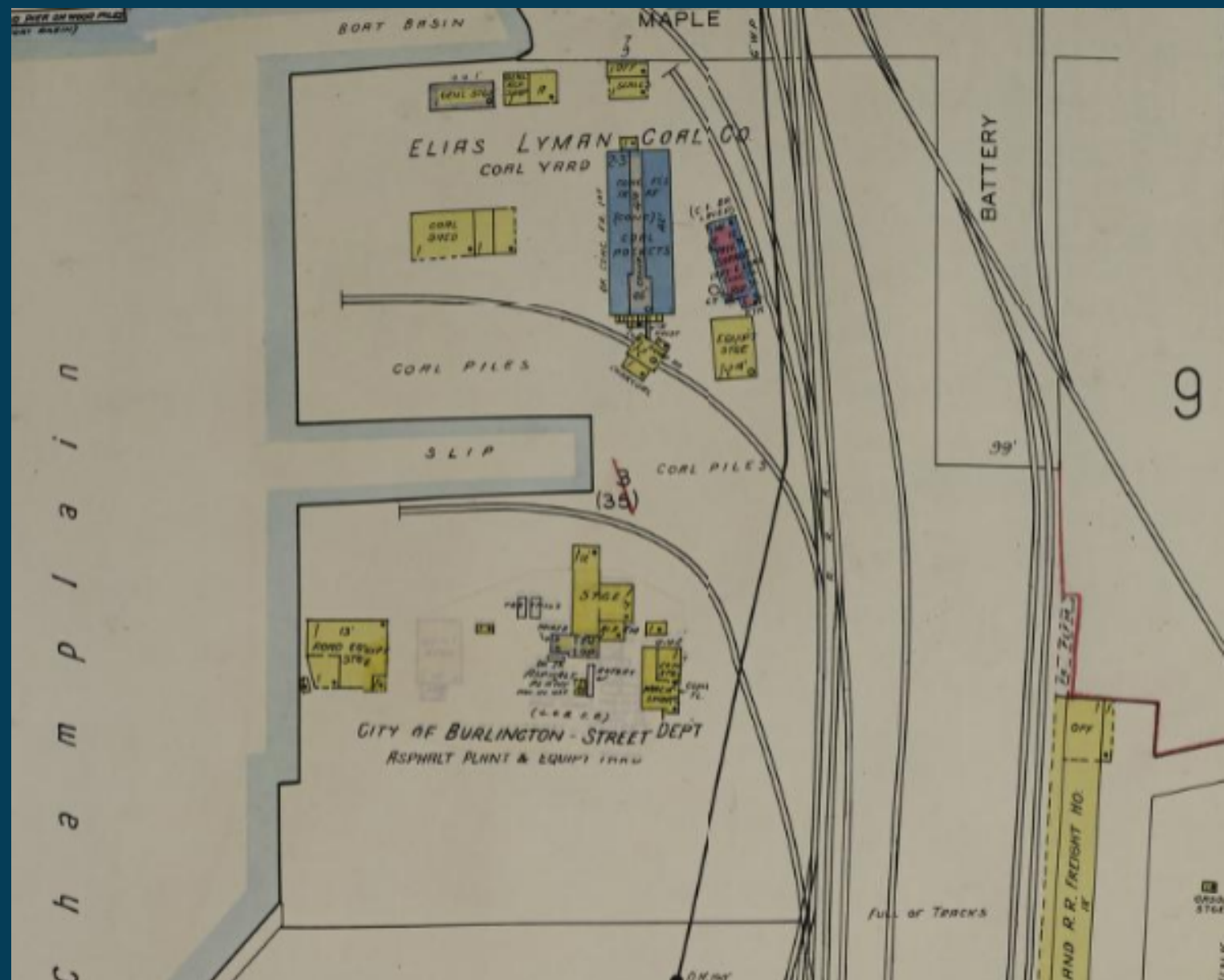
3

North & Main WWTFs

- PER 2026-2027
- Design 2027-2028
- Construction 2028-2029
- Cost Estimate \$82 M

1985 Resolution regarding the purchase and use of Perkins Pier

- “Property is acquired for the expansion of the capacity of the main sewer treatment plant....”
- “...primary use is for wastewater treatment needs..”
- “...acquired for present and future wastewater needs and capacity; and that any conflict between the needs of these two Departments will be resolved in favor of wastewater needs”



Resolution Relating to

PRIORITY USE OF ELIAS LYMAN PROPERTY

5/20/85

CITY OF BURLINGTON

In the year One Thousand Nine Hundred and ~~Eighty-five~~.....
Resolved by the City Council of the City of Burlington, as follows:

ThatWHEREAS, the voters of Burlington passed a bond issue.....
in November, 1984 to upgrade and improve the wastewater system
of the City of Burlington including expansion of the capacity
of wastewater treatment facilities; and

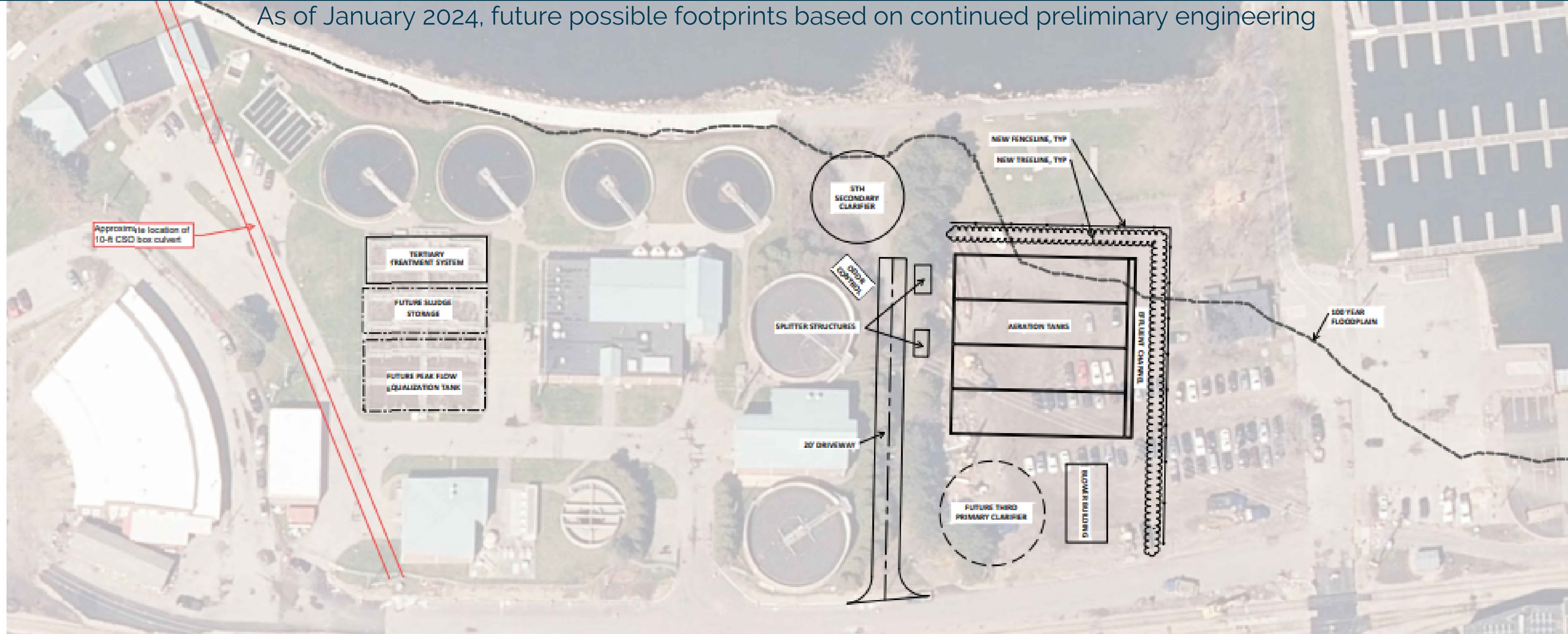
WHEREAS, the former Elias Lyman property at the foot
of Maple Street was acquired for expansion of the capacity of
the main sewer treatment plant; and

WHEREAS, the Water Resources Department and the Parks
and Recreation Department are currently planning joint use of
the property; and

WHEREAS, the Commissions of both Departments have executed
a memorandum of understanding that the primary use of the premises
is for wastewater improvement needs; that the property is acquired
for present and future wastewater needs and capacity; and that
any conflict between the needs of these two Departments will
be resolved in favor of wastewater needs.

NOW, THEREFORE, BE IT RESOLVED that the City Council
ratifies the foregoing memorandum of understanding and incorporates
it herein by reference.

As of January 2024, future possible footprints based on continued preliminary engineering



Main WWTf - Stage 1

Replace Aeration tanks in new location including new blower equipment

- Tertiary treatment equipment
- New secondary clarifier tank
- New mechanisms in all clarifiers
- New dewatering equipment
- Influent pump improvements
- Building improvements

Standby generator and electrical distribution upgrade

New odor control on primary clarifiers

- Renews infrastructure at end of life
- Increased capacity for growth
- Meets/exceeds Burlington's Lake Champlain phosphorus reduction obligation
- Ensures regulatory compliance

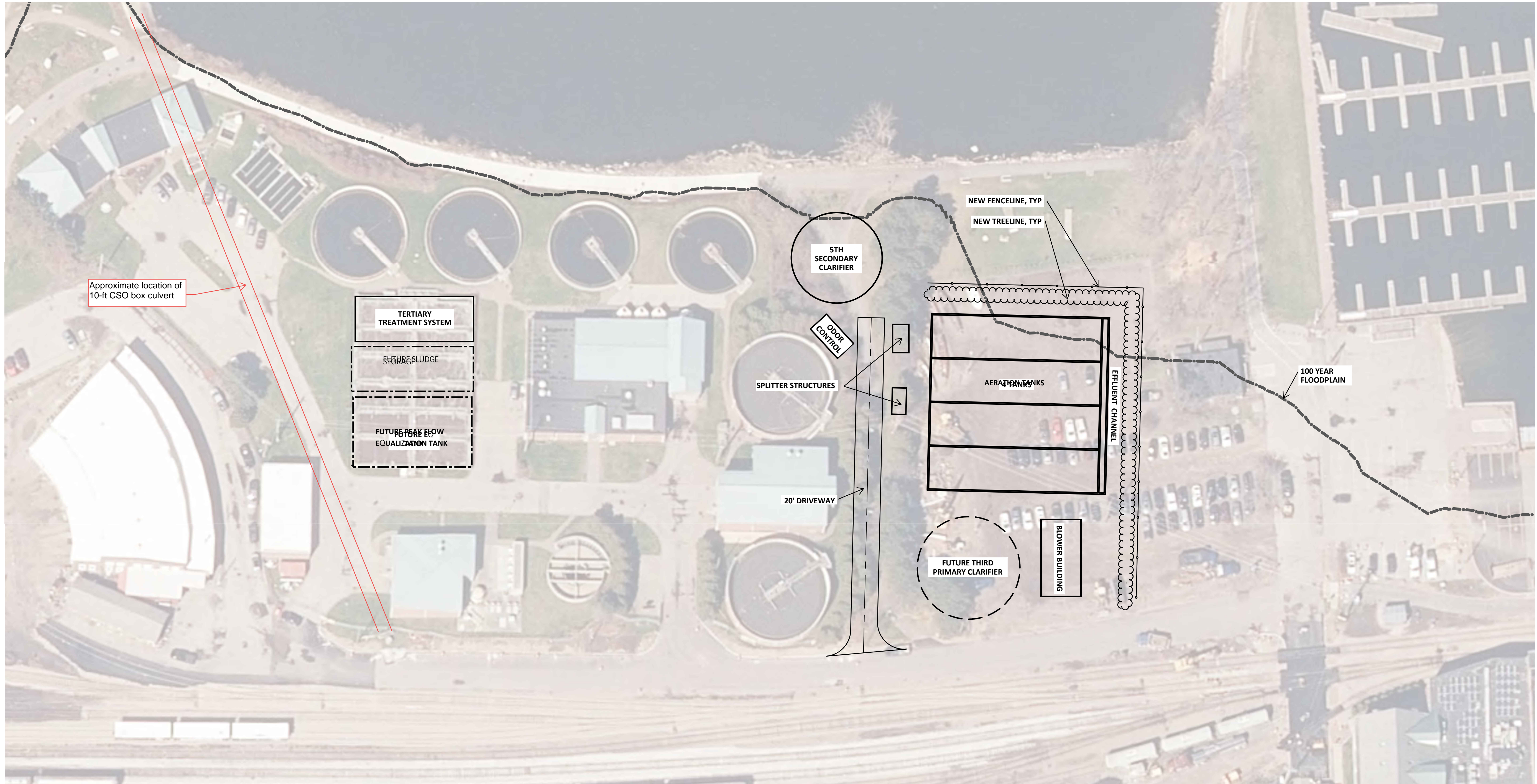
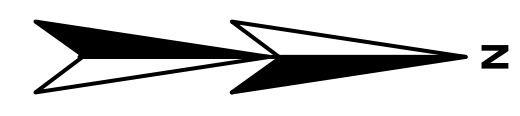
TEB:
 STAGE I IMPROVEMENTS: AERATION SYSTEM, TERTIARY TREATMENT SYSTEM, BLOWER BUILDING, 5TH SECONDARY CLARIFIER
 STAGE II IMPROVEMENTS: PEAK FLOW EQUALIZATION TANK, SLUDGE STORAGE TANK
 [FUTURE THIRD PRIMARY CLARIFIER IS NOT PART OF CURRENTLY PLANNED IMPROVEMENTS.]

Burlington Water Treatment Plant

- Last upgrade in 1984 (40 years ago)
- Source of drinking water for Burlington including Medical Center
- Infrastructure renewal is necessary, at a minimum
- Need for Water Treatment Plant Modernization Study
 - Increase redundancy and resiliency
 - Capacity evaluation
 - Advance planning for potential water quality and regulatory issues
 - more frequent turbidity (cloudy water) due to frequent storms
 - contaminants of concern (not an issue yet)
 - cyanobacteria toxins
 - PFAS
- Addition of BHM reduced adjacent expansion space



Future planning of the Northern Waterfront needs to ensure there is space for Water treatment and pumping



NOTES:

STAGE 1 IMPROVEMENTS: AERATION SYSTEM, TERTIARY TREATMENT SYSTEM, BLOWER BUILDING, 5TH SECONDARY CLARIFIER

STAGE 3 IMPROVEMENTS: PEAK FLOW EQUALIZATION TANK, SLUDGE STORAGE TANK

(FUTURE THIRD PRIMARY CLARIFIER IS NOT PART OF CURRENTLY PLANNED IMPROVEMENTS.)

DRAFT

MAIN WWTF SITE PLAN
SCALE: 1"=40'

DRAWING	BURLINGTON, VERMONT WASTEWATER TREATMENT FACILITY PHASE II UPGRADES	MAIN WWTF DRAFT FUTURE SITE PLAN	
C-10-101	WRIGHT-PIERCE 603.606.4420 www.wright-pierce.com 250 COMMERCIAL STREET, SUITE 4014, MANCHESTER, NH 03101		
PROJECT NO: 20776	DESIGNED: B. JONES CAD COORD: B. JONES CHECKED: DATE: APPROVED: DATE: SUBMISSION: PRELIMINARY DESIGN		
NO	REVISIONS		APP'D DATE
1			
2			
3			
4			
5			