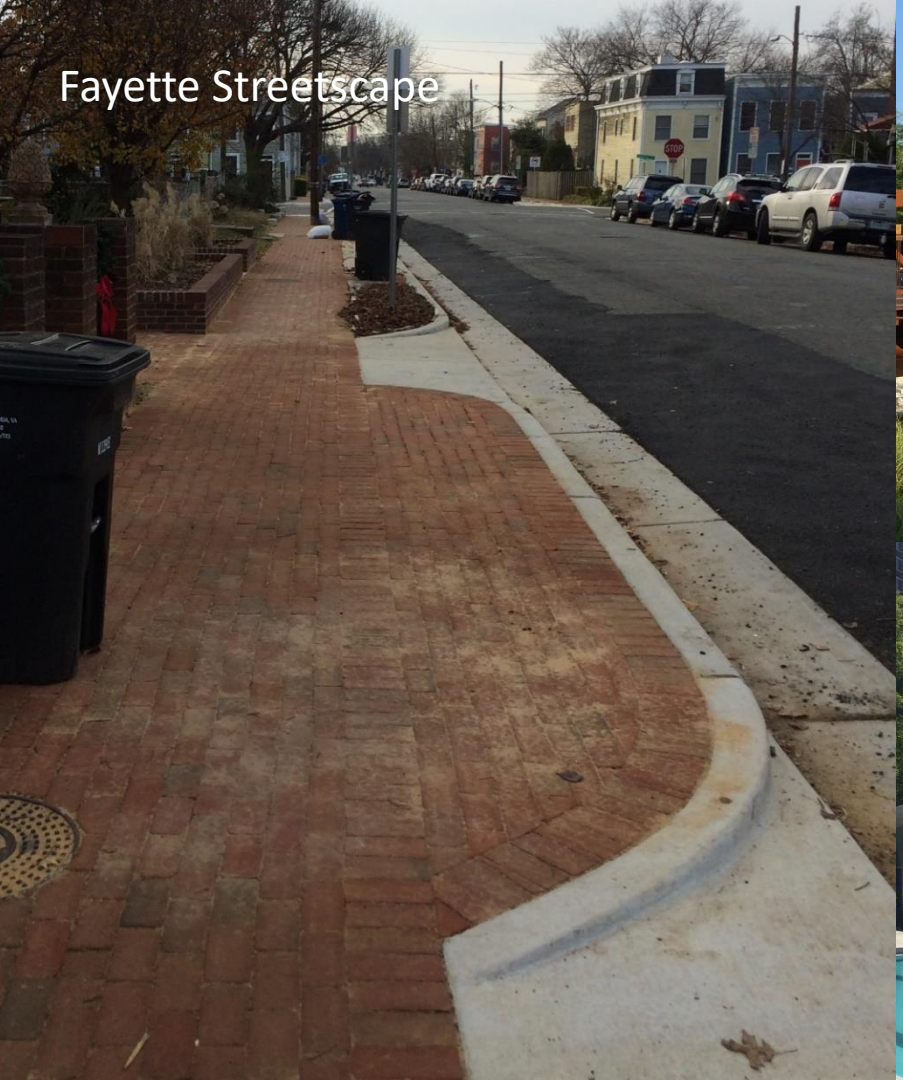
City Council Work Session

April 23, 2019

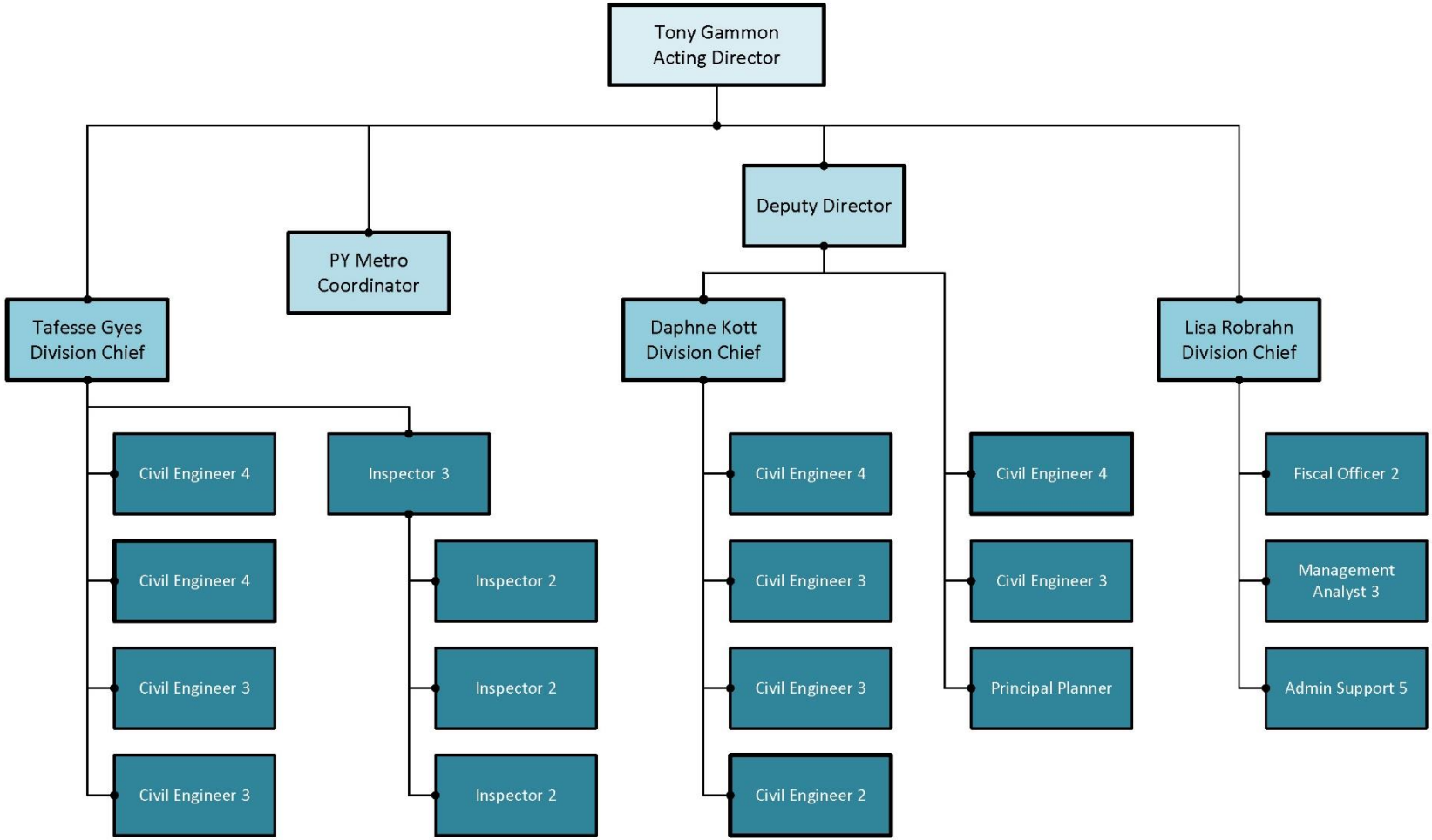
- Department of Project Implementation Overview
- Interim Waterfront Park Construction
- Waterfront Flood Mitigation Project Implementation
- RiverRenew Update

Department of Project Implementation Overview


Fayette Streetscape


Holmes Run Trail


Warwick Pool


Tony Gammon
Acting Director
PY Metro
Coordinator
Deputy Director
Tafesse Gyes
Division Chief
Daphne Kott
Division Chief
Lisa Robrahn
Division Chief
Civil Engineer 4
Civil Engineer 4
Civil Engineer 3
Civil Engineer 3
Inspector 3
Inspector 2
Inspector 2
Inspector 2
Civil Engineer 4
Civil Engineer 3
Civil Engineer 3
Civil Engineer 2
Civil Engineer 4
Civil Engineer 3
Principal Planner
Fiscal Officer 2
Management
Analyst 3
Admin Support 5

Primary Responsibilities

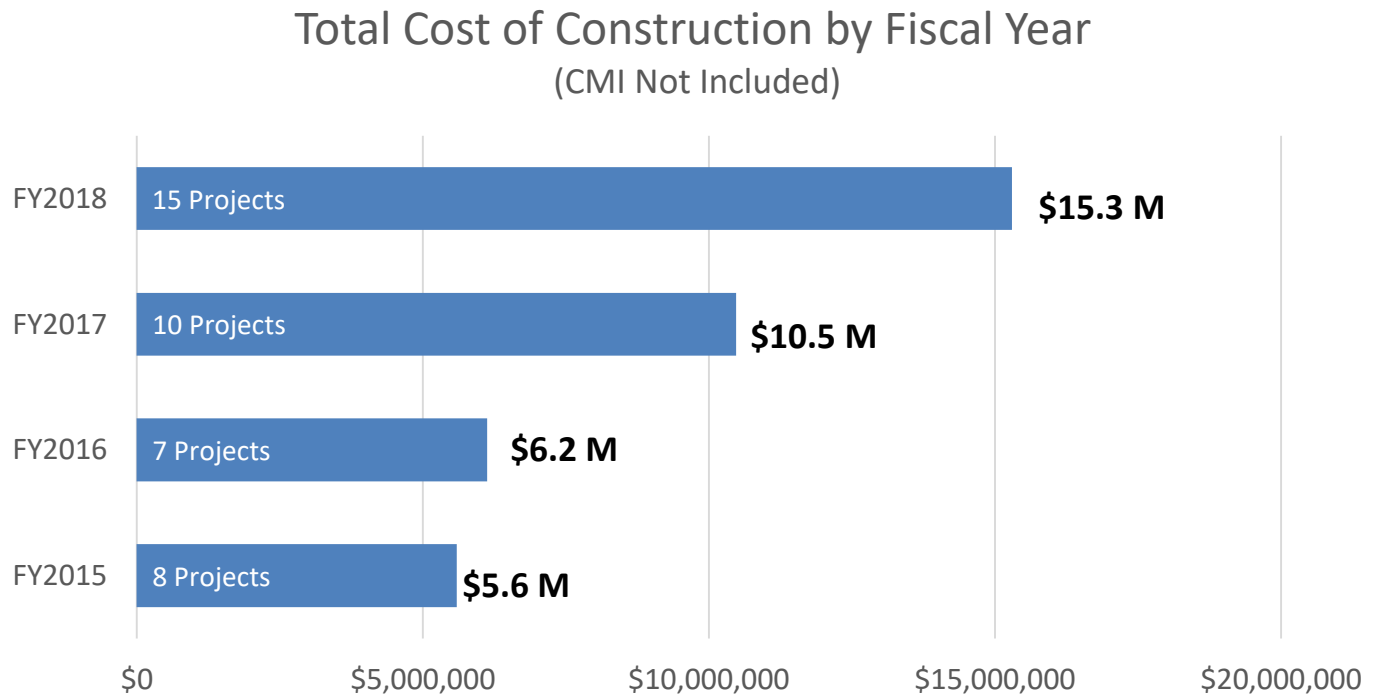
- Design and construction management for capital projects.
- Support capital budget development process.
- Implement small area plan improvements (Waterfront).
- Technical support for CSO (RiverRenew).
- City lead for Potomac Yard Metro (WMATA).

Oronoco Capping

Subject Matter Expertise

- Engineering and design
- Project and program management
- Capital project development and budgeting
- Consultant management
- Construction management
- Procurement process
- Project delivery best practices

Completed Projects



Strategic Work

- Implement projects consistently and predictably.
  - Manage civic expectations.
  - Support capital budget process.
  - Balance demands on City staff.
- Continuous improvement of subject matter expertise in project delivery.
- Maximize impact of budget by leveraging City services and consultant/contractor support.

Interim Waterfront Park Construction

www.alexandriava.gov/waterfront


old town

Waterfront Flood Mitigation Project Implementation

www.alexandriava.gov/waterfront

Timeline

January 2012 – Waterfront SAP approved by City Council.

June 2014 – Schematic Landscape and Flood Mitigation Design approved by City Council.

January 2015 – Phasing and Funding plan to City Council.

July 2015 – Waterfront priorities funded in FY16 – FY25 CIP at $61.5M.

July 2016 – Interim park funded in FY 2017 CIP.

February 2019 – City Manager proposed budget accelerating funding.

March 2019 – Interim park construction opening.

Schematic Landscape Plan - June 2014

www.alexandriava.gov/78787

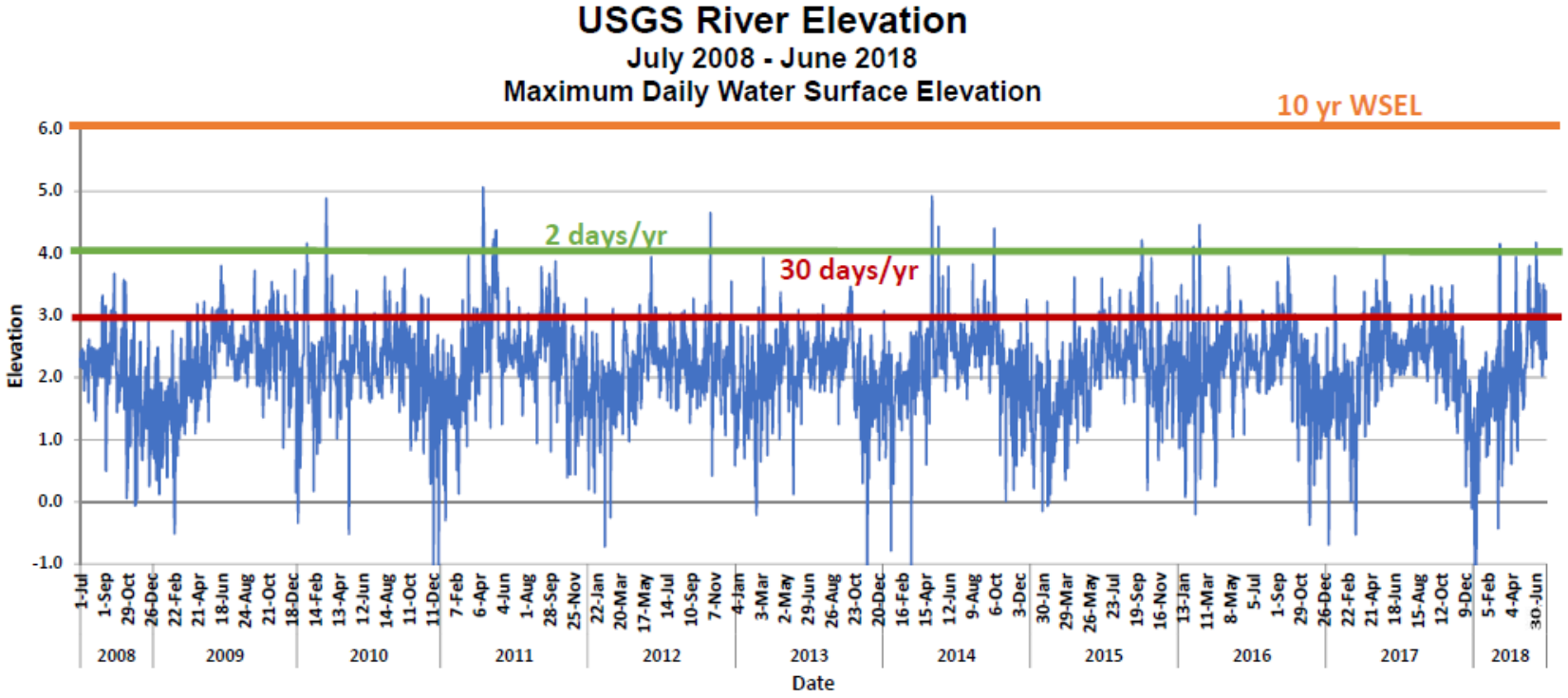
Schematic design (10%-15% detail) of SAP goals.

Incorporation of flood mitigation system into landscape.


May 2014
STOP

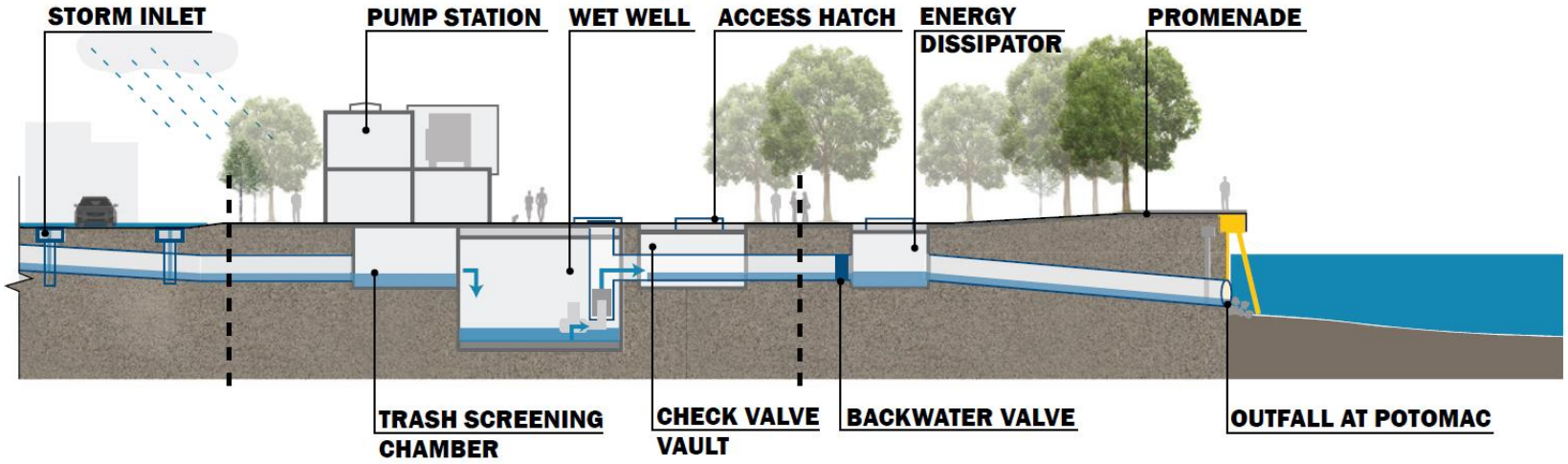

PRINCE STREET
KING STREET
CAMERON STREET
QUEEN STREET
ROYAL STREET
City Hall
FAIRFAX STREET
1749 SHORELINE
LEE STREET
UNION STREET

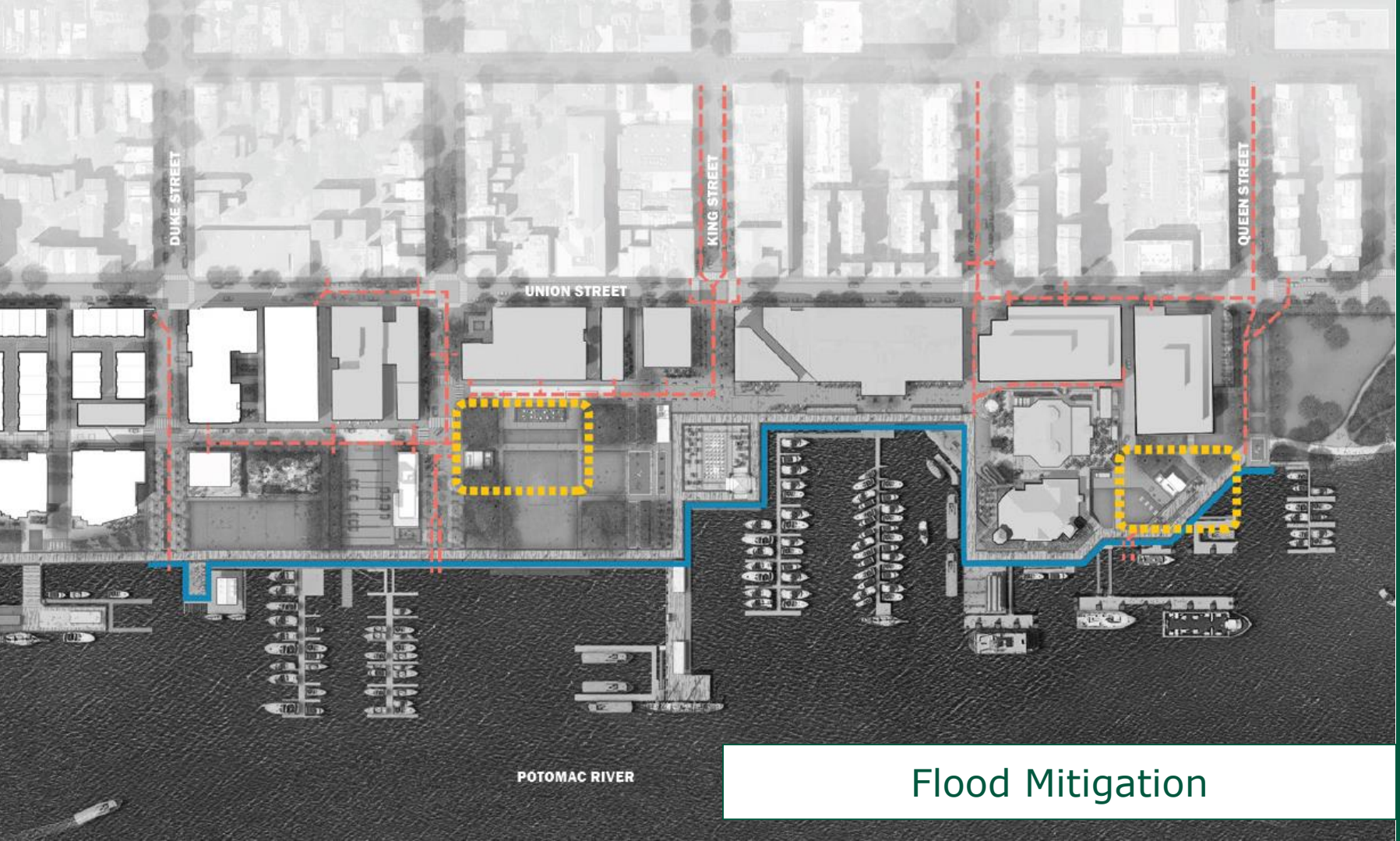
River Elevations: 10-Year Summary



FY 2020 Proposed Budget

- Unallocated funding consolidated to FY 2021
- Cost re-evaluation to be done for FY 2021 budget cycle
- Funding provides flexibility to use alternative delivery methods (progressive design-build)





Flood Mitigation

Next Steps

- Procure owner-advisor consultant.
- Conduct civic engagement to inform design elements.
- Develop priority-based construction contract package.
- Evaluate construction costs and budget.
- Develop infrastructure maintenance plan.
- Procure design-build team.

RiverRenew Update

ALEXANDRIA renew ENTERPRISES®

RiverRenew is a program owned and implemented by Alexandria Renew Enterprises, with support from the City of Alexandria.

1800 Limerick Street | Alexandria, VA 22314

RiverRenew

Proposed RiverRenew Tunnel System Routes

Waterfront Tunnel Routes*

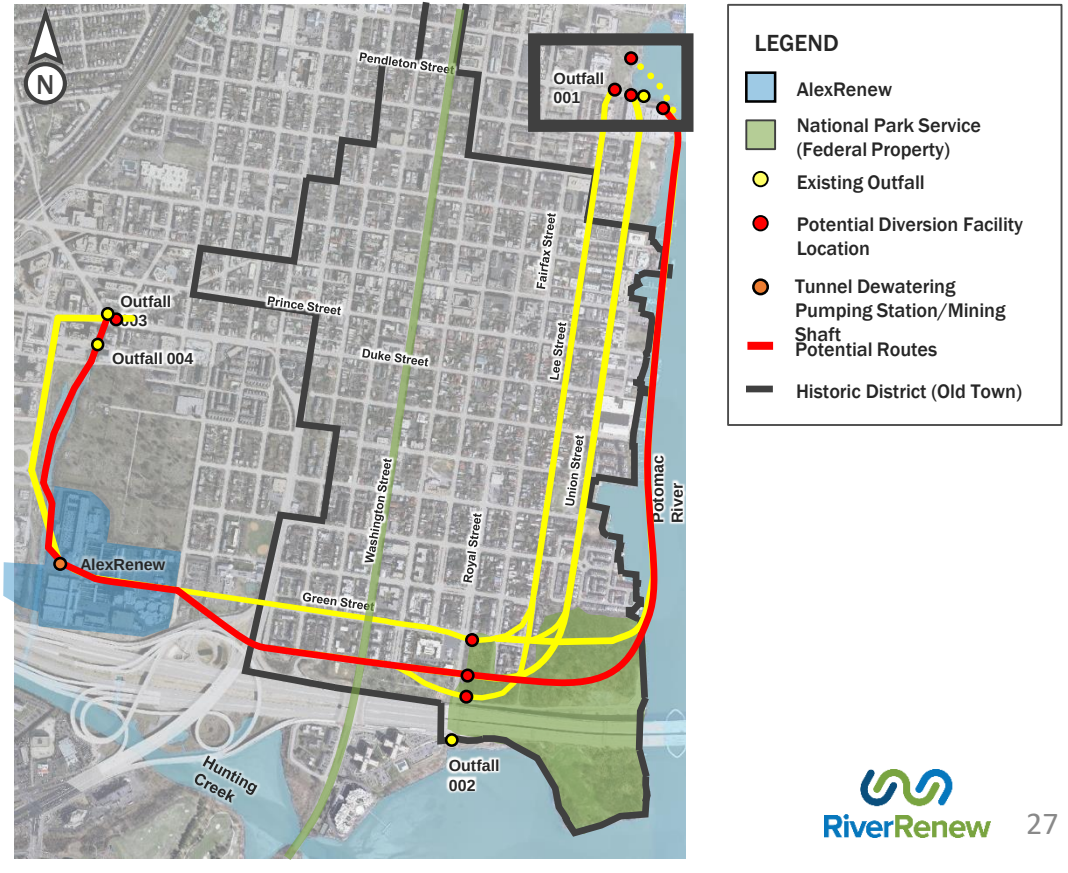
East-West	North-South
Green Street	Lee Street
Church Street	Union Street
	Potomac River

*over 100 feet deep

Hooffs Run Tunnel Routes

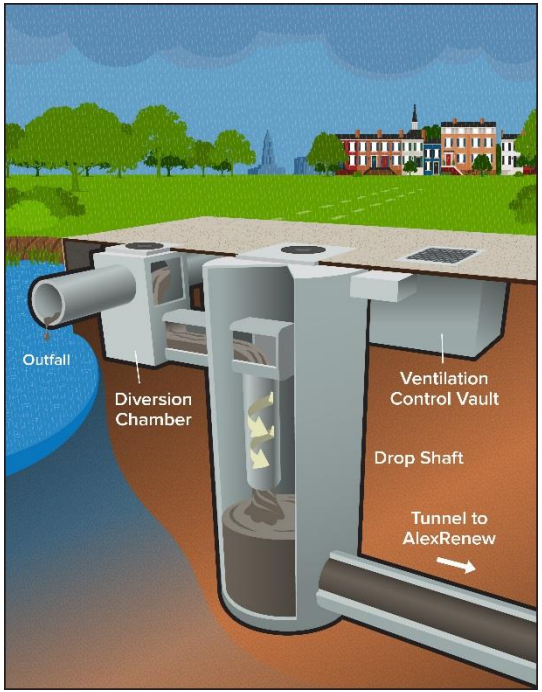
Option	Approx. Depth
Deep	100 feet
Trenchless	20 to 40 feet
Open-Cut	10 to 20 feet

Note: The selection of a final route will be determined through the Environmental Assessment process



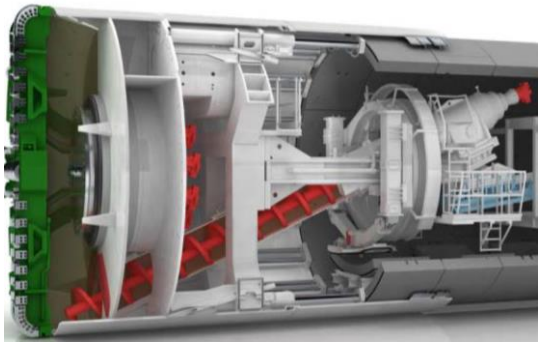
RiverRenew Tunnel System Components

Diversion Facility



Hooffs Run Tunnel (open-cut)

Waterfront Tunnel



RiverRenew

Proposed RiverRenew Work at City Waterfront

Outfall 001 Existing Conditions

The Environmental Assessment is Analyzing Four (4) Alternatives at Outfall 001 to Control Discharges of Combined Sewage

Oronoco Bay Park North

Oronoco Bay Park West

Oronoco Bay Park East

Robinson Terminal North

RiverRenew

What RiverRenew Construction Activities May Look Like at Outfall 001

Phase 1: Site Mobilization (3 months)

RiverRenew

What RiverRenew Construction Activities May Look Like at Outfall 001

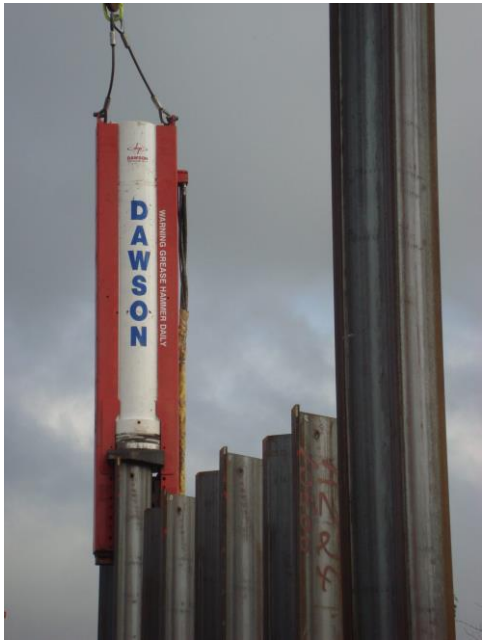
Phase 2: Cofferdam Installation (8 months)

Sheet pile installation

Finished sheet pile wall

Work within sheet pile wall

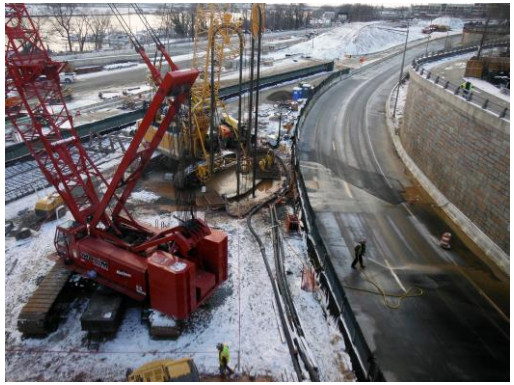
Braced sheet pile wall



Sheet pile hammer

What RiverRenew Construction Activities May Look Like at Outfall 001

Phase 3: Shaft Construction (10 months)



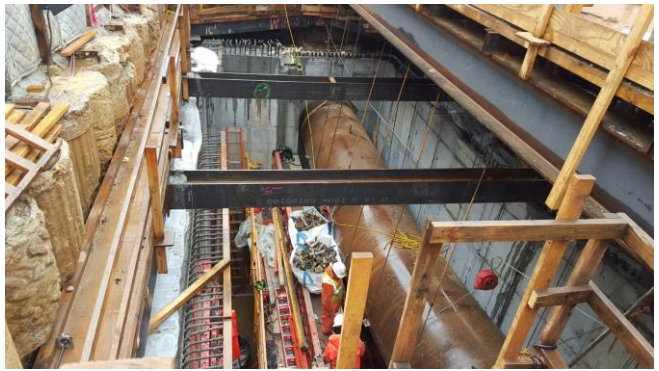
Shaft excavation support installation

Shaft excavation

Finished shaft excavation support

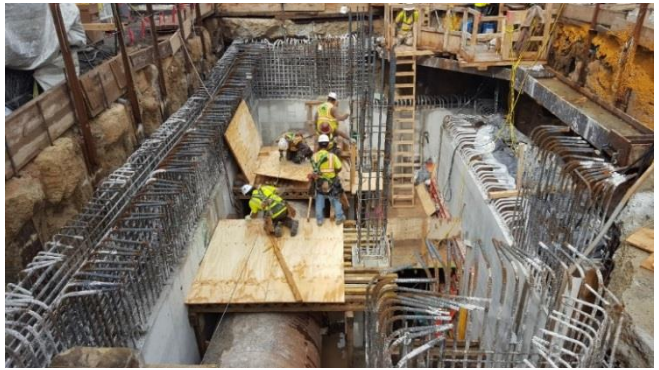
What RiverRenew Construction Activities May Look Like at Outfall 001

Phase 4: Near Surface Structures (9 months)



Excavation support and flume

Concrete formwork and pours



Reinforcing installation

Equipment installation (where necessary)

What RiverRenew Construction Activities May Look Like at Outfall 001

Phase 5: TBM Removal & Shaft Fit-out (4 months)

TBM removal

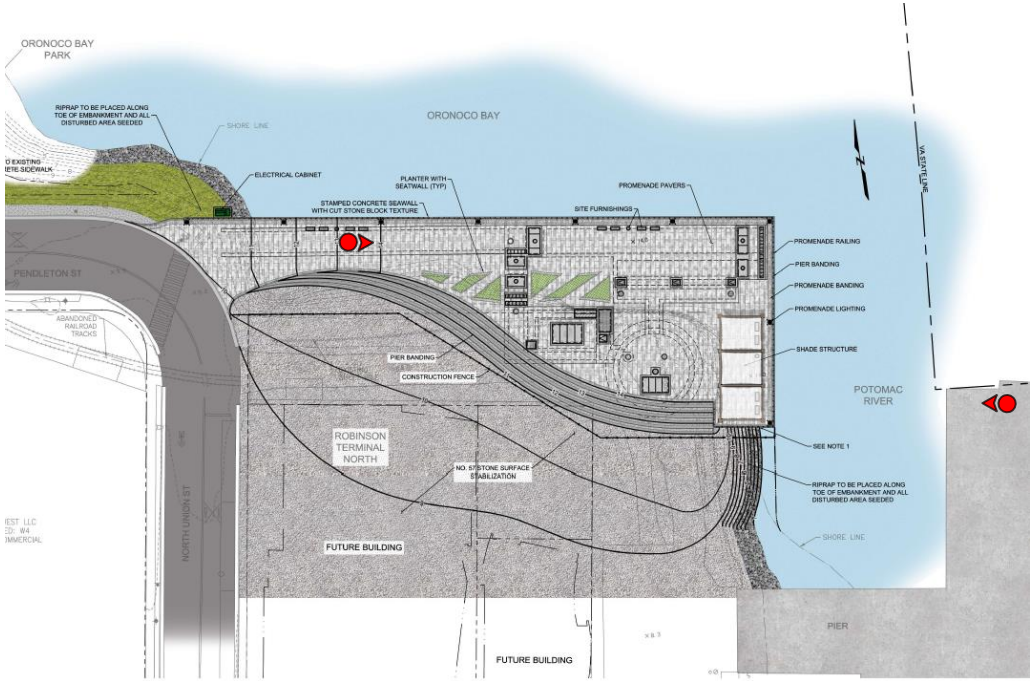
Shaft internal concrete (upper shaft)

Shaft internal concrete (lower shaft)

Shaft cover and backfill

Illustrative Renderings of Outfall 001 Diversion Facility Restoration

Robinson Terminal North Alternative



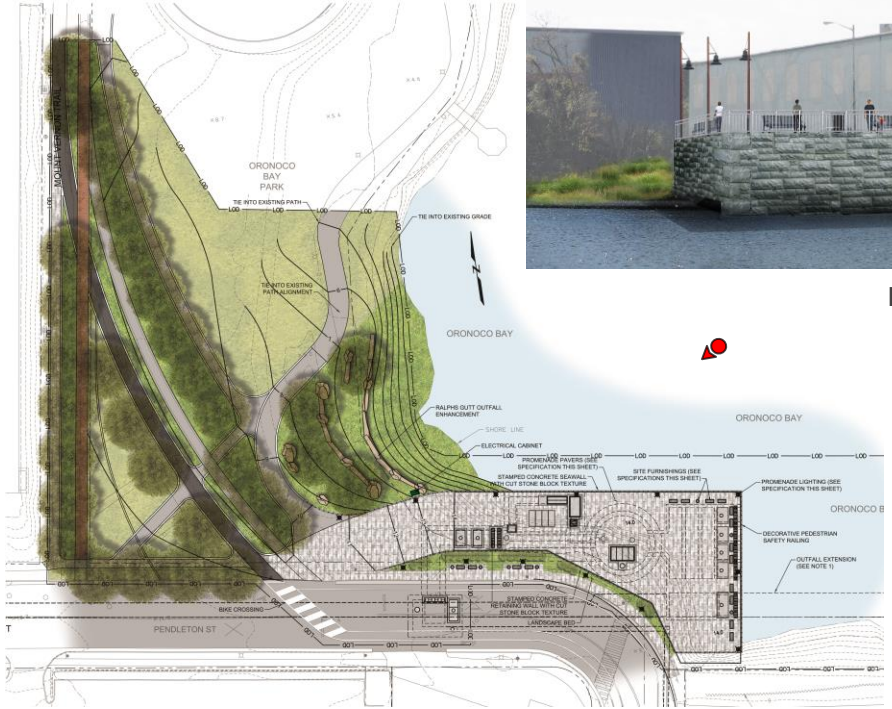
Illustrative Landscaping Plan

Rendering, looking west at Robinson Terminal North

Rendering, looking east at Robinson Terminal North

Illustrative Renderings of Outfall 001 Diversion Facility Restoration

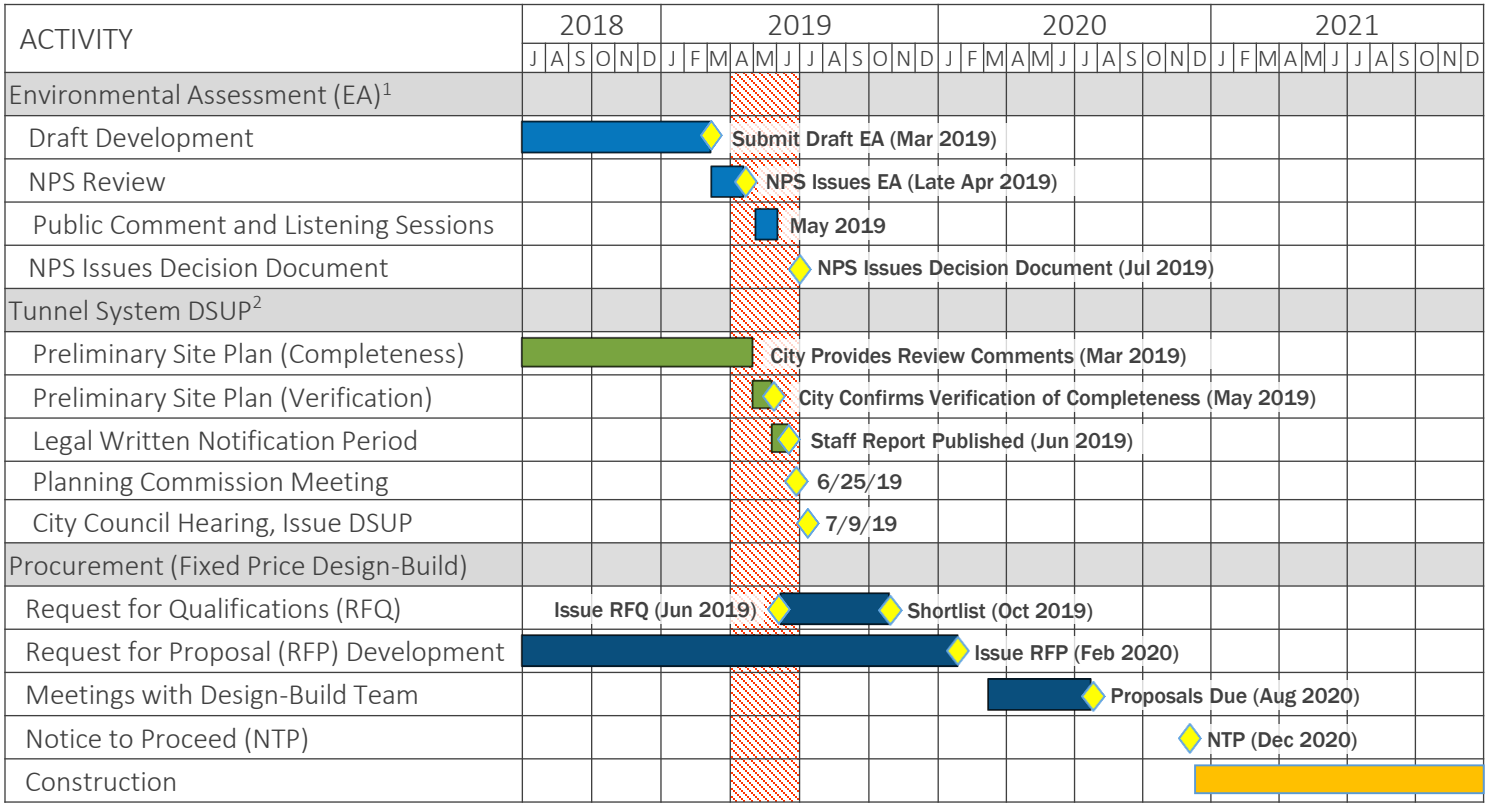
Oronoco Bay Park East Alternative



Illustrative Landscaping Plan

Rendering, looking south from Oronoco Bay

RiverRenew Tunnel System Permit and Procurement Schedule



1) EA schedule subject to NPS actions

2) DSUP: Development Special Use Permit

Questions?