

City Council/AlexRenew Board CSO Subcommittee/Workgroup

Meeting No. 10

January 7, 2021

Presentation Outline

- RiverRenew Progress Update
- 2021-2022 Stakeholder Advisory Group Update
- RiverRenew Permitting Process Overview
- Meet Traylor-Shea
- Schedule and Next Steps

Holland Lane Lot Establishment



Building J Demolition at AlexRenew



RiverRenew Snapshot

RiverRenew Projects:

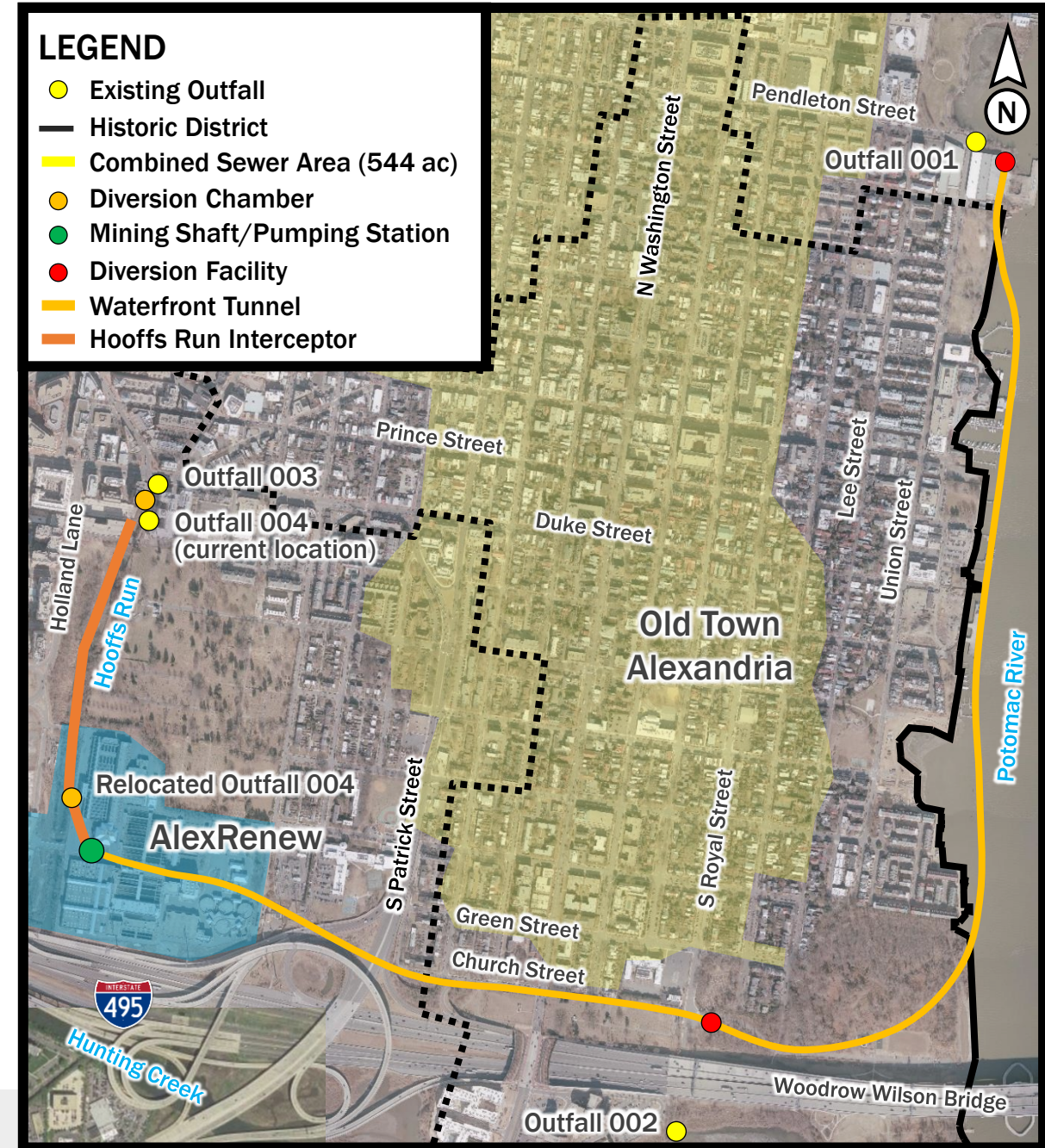
- Tunnel Project
- Building J Facilities Relocation and Decommissioning
- 108 to 116 Million Gallons per Day
- Site Security and Access

Estimated RiverRenew Capital Cost:

- \$613 million

RiverRenew Schedule:

- July 2018 – July 2025 (Substantial Completion of Tunnel Project)



RiverRenew Progress Update

Traylor-Shea Joint Venture Awarded Tunnel System Project in November 2020 – Work Currently Underway



Core Project Team from **Blue Plains Tunnel**:
Engineering News Record's Top Project of 2016



Strong Local Presence

- Traylor headquartered in Alexandria, VA
- Shea headquartered in Washington, DC
- Local Jacobs offices throughout metro area



Extensive experience in construction of **tunnels**,
combined sewer structures, and **pumping stations**



History of team working together (Traylor, Shea,
and Jacobs)



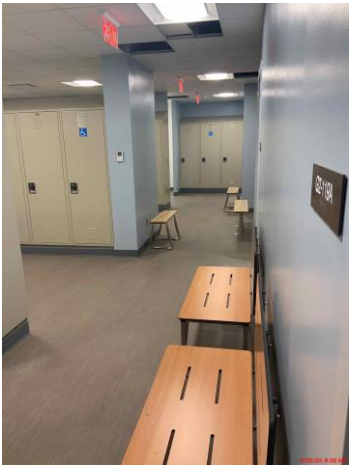
TRAYLOR
TRAYLOR BROS., INC.

ch2m. now
JACOBS

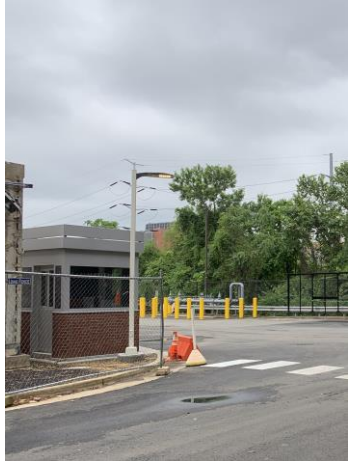
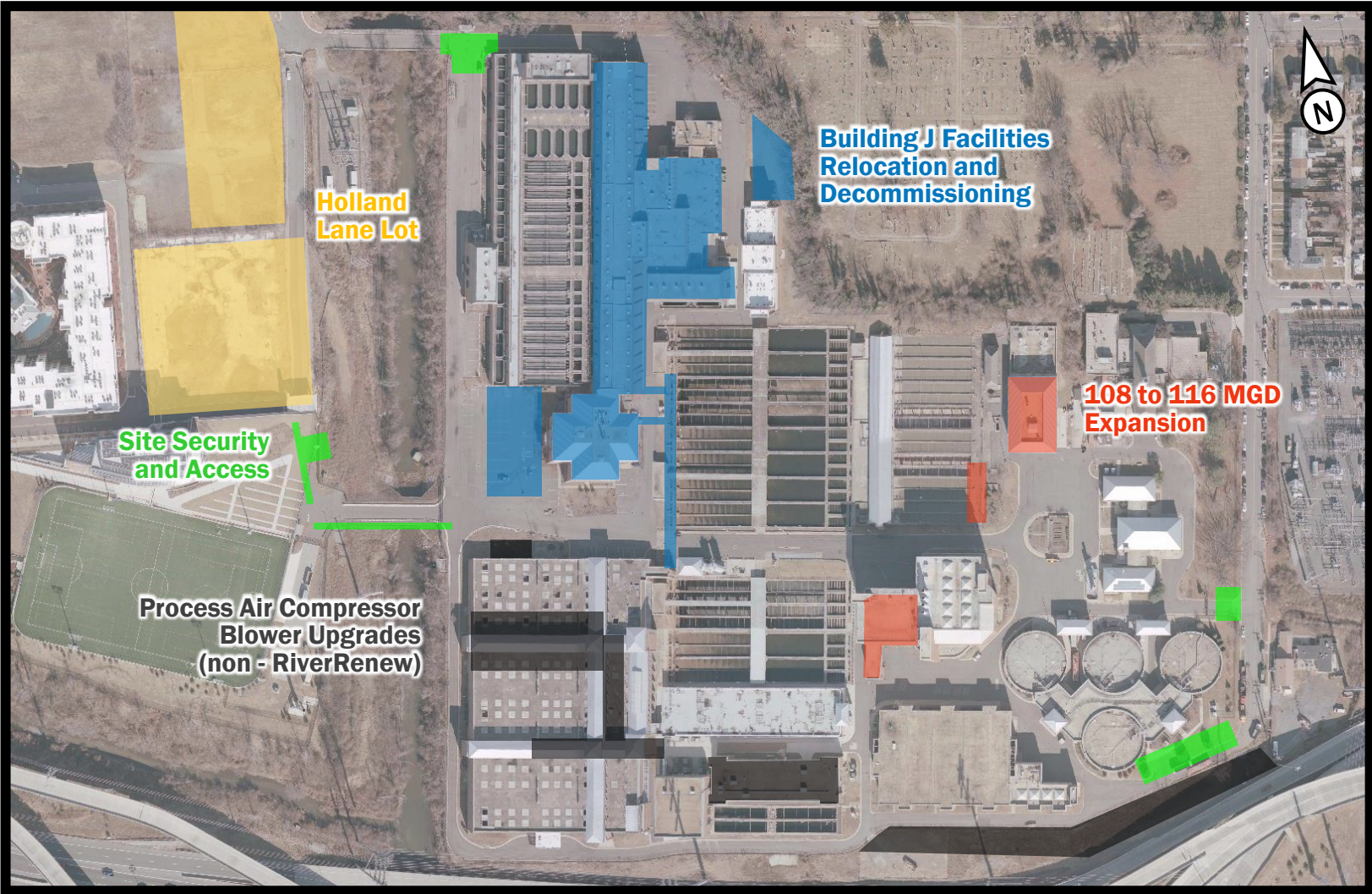
Building J, 108 to 116, and Site Security Construction Projects are Nearing Completion at AlexRenew



Building J: New lab



Building J: New locker rooms



New security booth



108 to 116: Upgraded pumps



**On-time Completion
of 108 to 116
Million Gallons per
Day Project on
December 11**

Building J Demolition is On-Schedule



Holland Lane Lot is Complete



Robinson Terminal North Warehouse Demolition Completed in December 2020



South Royal Street Archaeology and Tree Clearing Complete



2021-2022 RiverRenew Stakeholder Advisory Group

2021-2022 RiverRenew Stakeholder Advisory Group At-a-Glance

Membership

8-member group committed to being active and engaged in the stakeholder process

Outfall 001	North Old Town Independent Citizens' Association* Tobacco Quay, Waterfront Residences or Rivergate
Outfall 002	Old Town Civic Association* South Old Town
Outfalls 003/4	Eisenhower Partnership* Carlyle community or Duke Street corridor
At-large	Resident with interest in RiverRenew Resident with engineering or construction background

**Denotes nomination*

Timeframe

Term: January 2021 – January 2022

Meetings: Every other month (Virtually if needed)

Term Period: 1 year

Selection Process

Established via **City Council Resolution No. 2959** in September 2020

Applications Opened September 23, 2020 and Closed November 8, 2020

Balanced and diverse group of citizens representing neighborhoods, businesses, and environmental groups who commit to being active and engaged in the stakeholder process

Charge

- Review and monitor construction/program progress
- Communicate progress to the community by leveraging existing networks
- Identify concerns and receive input from the public
- Provide recommendations regarding mitigation of construction impacts

2021-2022 RiverRenew SAG Members



Mark McNutt
Interest in RiverRenew



Liz Birnbaum
Carlyle or Duke St. Corridor



Ailing Bressman
Engineering or Construction
Background



Dan Bradfield
South Old Town



Erik Olson
NOTICE Nominee



Yvonne Callahan
OTCA Nominee



Morgan Babcock
Eisenhower Partnership
Nominee



Mace Carpenter
Tobacco Quay,
Waterfront Residences,
or Rivergate

2021-2022 RiverRenew SAG Meeting Topics (Draft)

- SAG Member Introductions
- RiverRenew Overview
- RiverRenew Progress Update
- Design-Build Permitting Process
- Meet Traylor-Shea
- General Construction Schedule

**February 2021
SAG Meeting**

**April 2021
SAG Meeting**

**June 2021
SAG Meeting**

**August 2021
SAG Meeting**

**October 2021
SAG Meeting**

**December 2021
SAG Meeting**

- SAG Feedback
- Construction Update
- TBM Update
- Outreach Update
- Pendleton St. Listening Session Prep

- SAG Feedback
- Construction Update
- Outreach Update
- WATER Fund Event Prep

- SAG Feedback
- Construction Update
- Outreach Update
- Groundbreaking Ceremony
- Duke St. Listening Session Prep

- SAG Feedback
- Construction Update
- Outreach Update
- Royal St. Listening Session Prep

- SAG Feedback
- Construction Update
- TBM Progress Update
- Outreach Update

RiverRenew Permitting Process Overview

In 2018, AlexRenew and the City Executed an Outfall Transfer Agreement to Establish Roles for RiverRenew

Representatives from each department tasked with regulatory review

**City
Regulatory
Team**

**Program
Meetings**

City Staff will attend AlexRenew coordination meetings

Two members each from the City Council and AlexRenew Board to review and guide plans, design, implementation and costs to minimize community impacts and maximize community benefits

**City
Council/
AlexRenew
Workgroup**

Fees

No fees will be charged to either party for Program components

AlexRenew and the City are Finalizing an Outfall Transfer Agreement Amendment to Document the RiverRenew Permitting Process

Main Components of RiverRenew Permitting Process:



**Partial Site Plan
Release Process**
to allow mobilization to site,
while completing final design



Escalation Ladder
to timely resolve issues



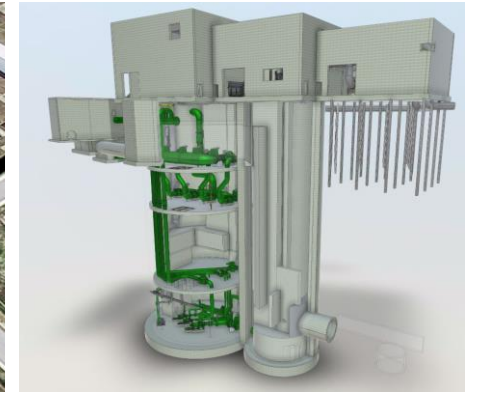
Timeframe
for review and approval of
Submittals

Tunnel System Project Development Special Use Permits (DSUP)

Outfall Sites DSUP 2018-00020



Pumping Station DSUP 2019-00013



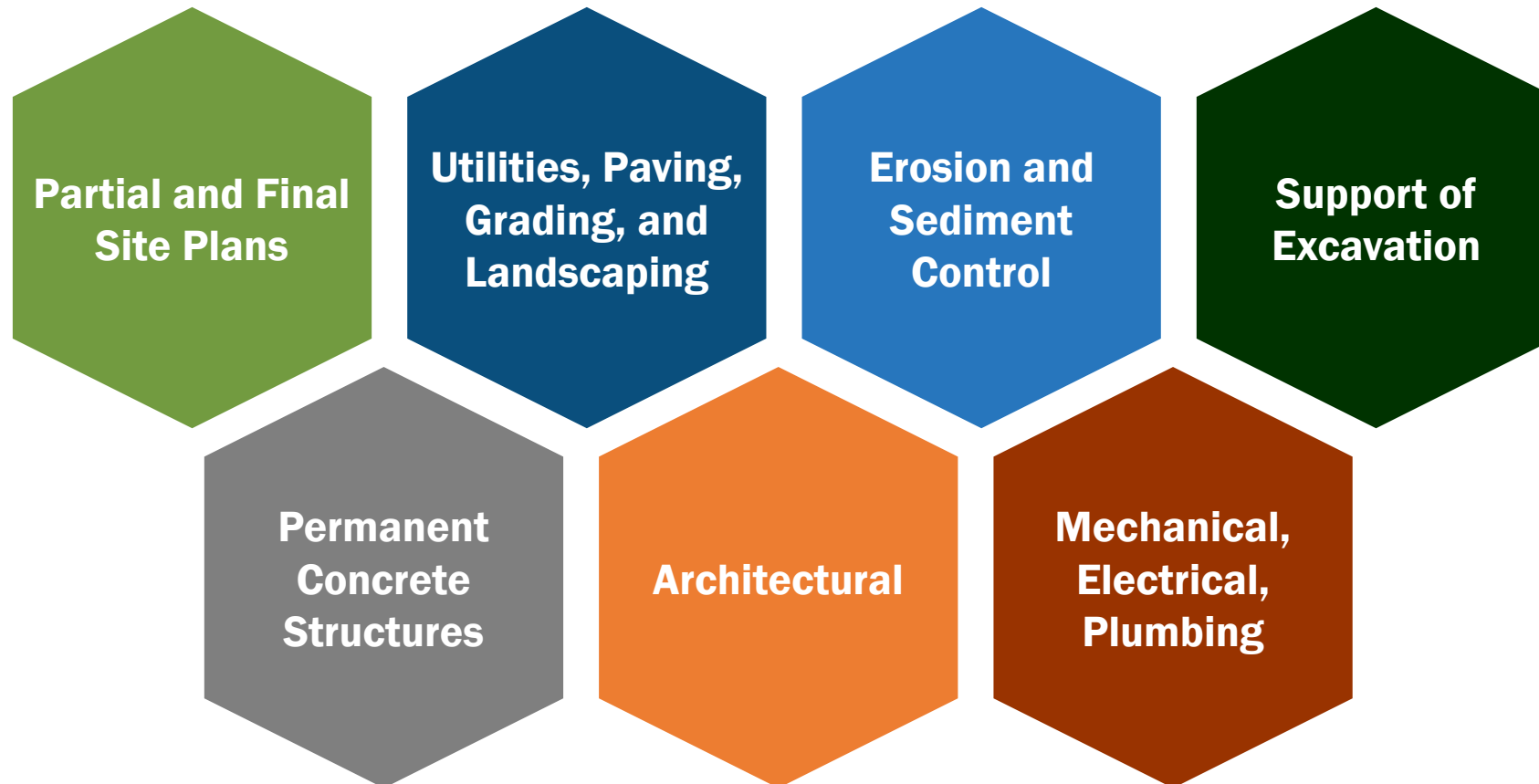
Each DSUP requires:

Site Plan
Approvals

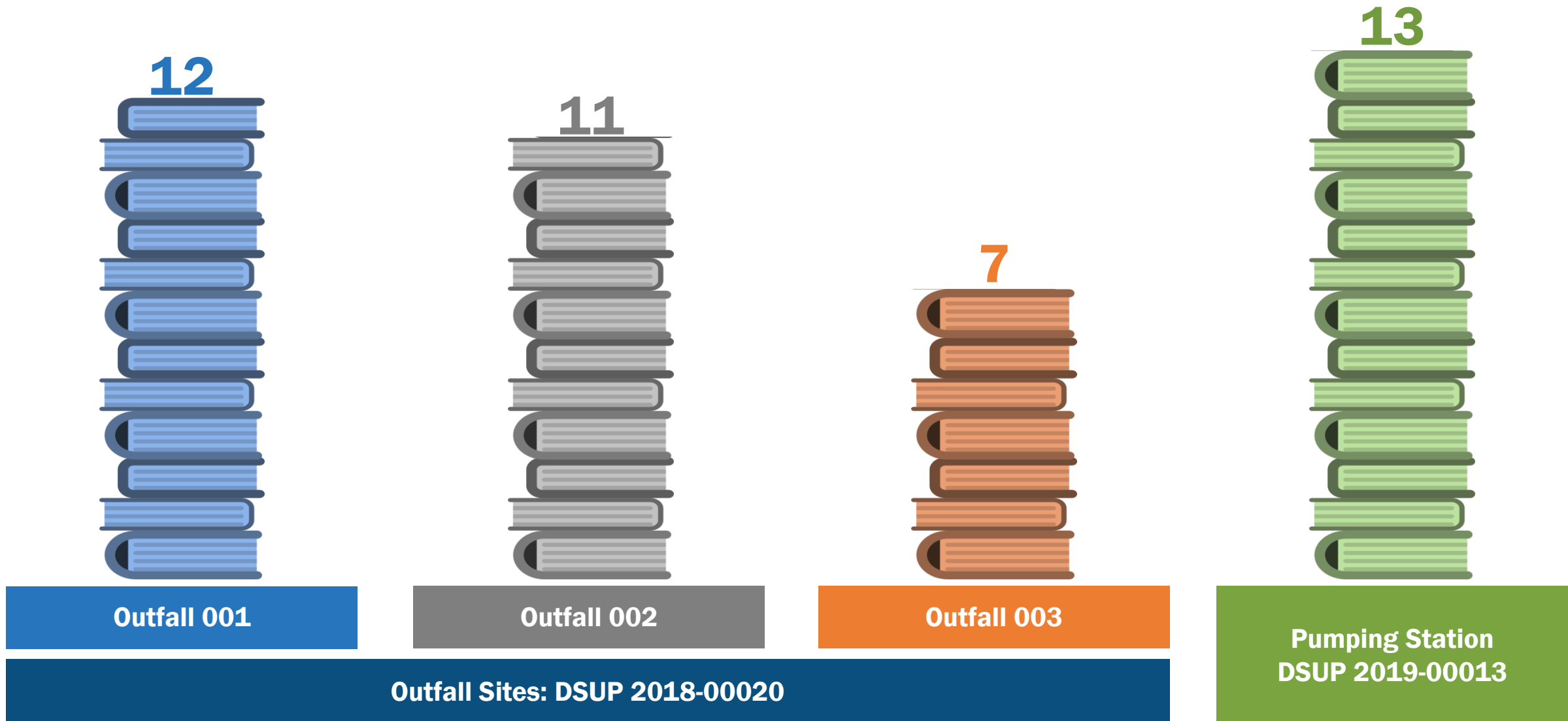
Building Permits

T&ES Permits

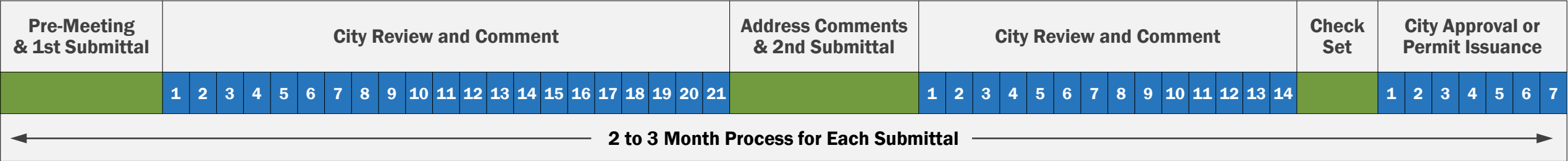
Types of Design-Build Submittals for Tunnel System Project



Estimated Number of Submittals for the Tunnel System Project



Outfall Transfer Agreement Amendment Process for Review of Tunnel System Project Submittals by City



Each Submittal Requires Engagement of Following City Departments:

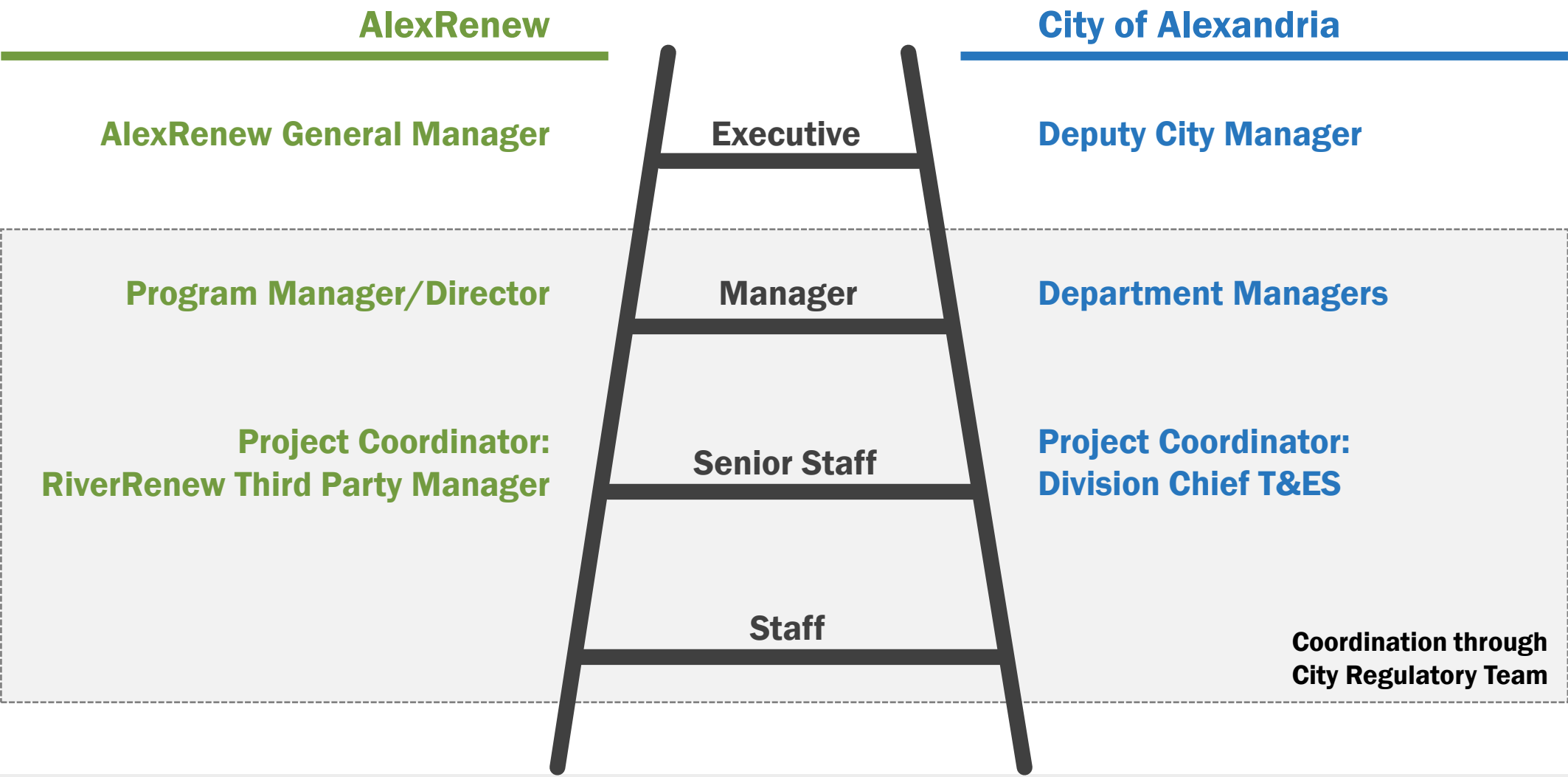
Planning & Zoning

Code

T&ES

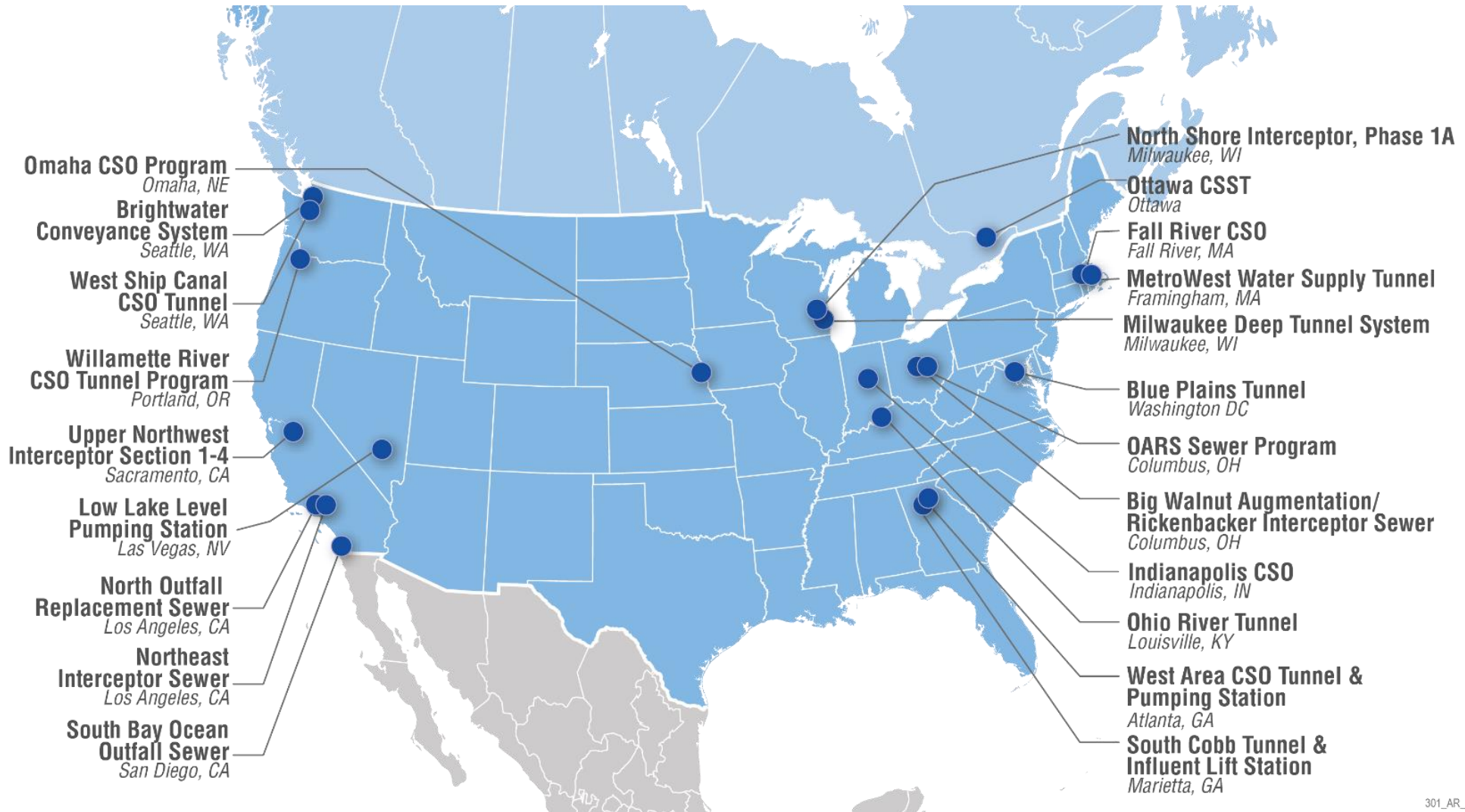
- AlexRenew/Design-Builder
- City of Alexandria

Outfall Transfer Agreement Amendment Escalation Ladder to Quickly Resolve Issues



Meet Traylor-Shea

Extensive Experience Delivering Similar Projects Eliminates Learning Curves and Brings Best Practices to AlexRenew



301_AR_WDC_4

Jean-Marc Wehrli is Traylor-Shea's Project Manager for the Tunnel Project



Local experience as Project Manager on the Purple Line



20 miles of tunnel work valued at \$1.5B



24 years of underground construction experience



Key Traylor-Shea Tunnel Project Executives



Chris Hebert
Vice President,
Underground Division
Manager, Traylor Bros.,
Inc.



Mike Krulc, PE
Project Sponsor



Jim Marquardt
Project Sponsor



Mark Johnson, CEng
Project Design Director

Key Traylor-Shea Tunnel Project Personnel



Richard Taylor
Design Coordinator



Samer Sadek, PhD, PE
Design Manager



Jeff Brandt, PE
Construction Manager



Ryan Nelson
Pump Station
Construction Manager

Key Projects Delivered by Traylor-Shea Team

	TRAYLOR	SHEA	JACOBS*
Westside Subway Extension, Phase 1 LACMTA Los Angeles, CA 2014 - Present	✓	✓	✓
Blue Plains Tunnel DC Water Washington, DC 2011 - 2015	✓		✓
South Cobb Tunnel Cobb County Water System Cobb County, GA 2007 - 2010	✓	✓	
Upper Northwest Interceptor 1&2 SRCSD Sacramento, CA 2007 - 2010	✓	✓	✓
Brightwater Conveyance System King County Wastewater Division Bothell, WA 2005 - 2009	✓	✓	
San Vicente Pipeline SDCWA San Diego, CA 2005 - 2010	✓	✓	✓
Northeast Interceptor Sewer City of Los Angeles Los Angeles, CA 2002 - 2005	✓	✓	
North Outfall Sewer - East Central Interceptor LA Public Works Los Angeles, CA 2000 - 2005	✓	✓	
Arrowhead Water Conveyance Tunnels MWD Los Angeles, CA 2003 - 2009	✓	✓	✓
Gold Line Metro LACMTA Los Angeles, CA 2004 - 2007	✓		✓
University Link Contract U220 Sound Transit Seattle, WA 2009 - 2013	✓		✓
Queens Bored Tunnel of the Eastside Access Project NYMTA New York 2009 - 2013	✓		✓
Ohio River Tunnel Louisville and Jefferson County Metropolitan Sewer District Louisville, KY 2017 - Present	✓	✓	
North Outfall Replacement Sewer City of LA Board of Public Works Los Angeles, CA 1989 - 1992	✓	✓	
Metrowest Tunnel MWRA Boston, MA 1996 - 2003	✓	✓	

Traylor +
Shea
30
years

Traylor +
Jacobs
20
years

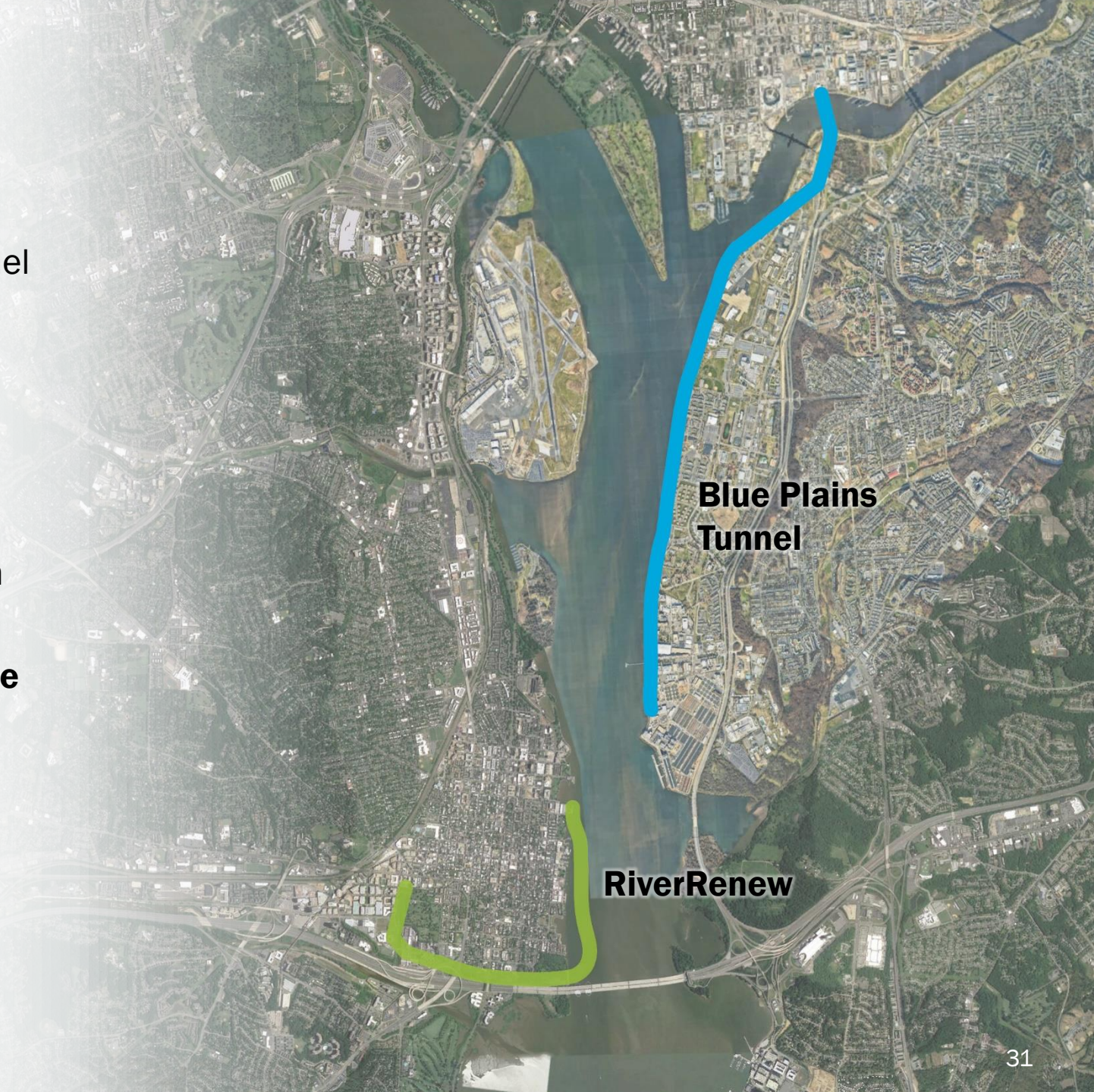
* including CH2M HILL and Halcrow

Traylor-Shea's First Project Together was North Outfall Replacement Sewer, Los Angeles, 1989



Blue Plains Tunnel Project Achievements

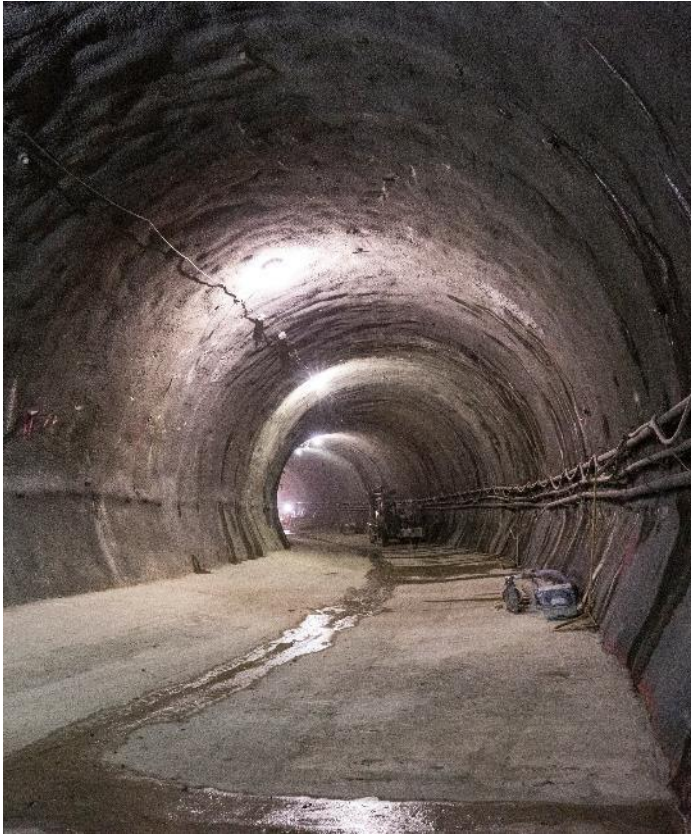
- **Constructed in the same ground** using a tunnel boring machine (Lady Bird)
- Lady Bird mined the **23-ft diameter, 4.5-mile-long tunnel in 23 months**
- Tunnel mined from an **active wastewater treatment plant**
- Coordinated with **concurrent pumping station construction**
- Completed with **no impacts to Consent Decree milestones**
- **Under budget**
- 1.4 million man-hours with **zero lost time incidents**
- Numerous national and international **awards**



Westside Subway Extension, Los Angeles, CA



Purple Line Light Rail Transit Project, MD



Corman Kokosing is a Key Traylor-Shea Construction Partner

- **Extensive experience in:**
 - Structural concrete/steel
 - Mechanical
 - Equipment setting
 - Startup and commissioning
- **Strong local manpower resource**
- **Past experience in the City of Alexandria**
- **Experience working with Traylor on DC Water projects**

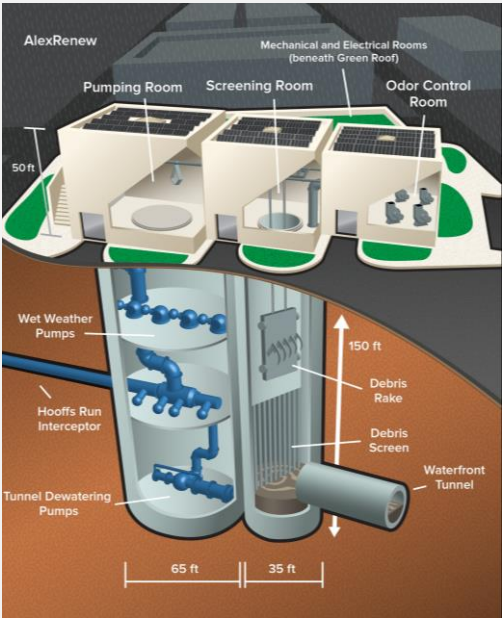
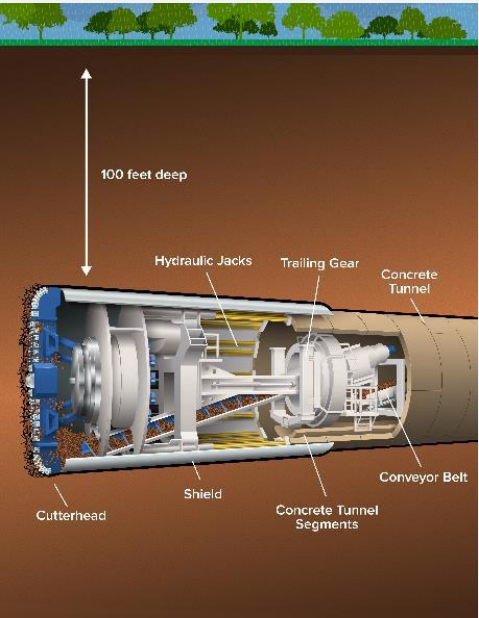
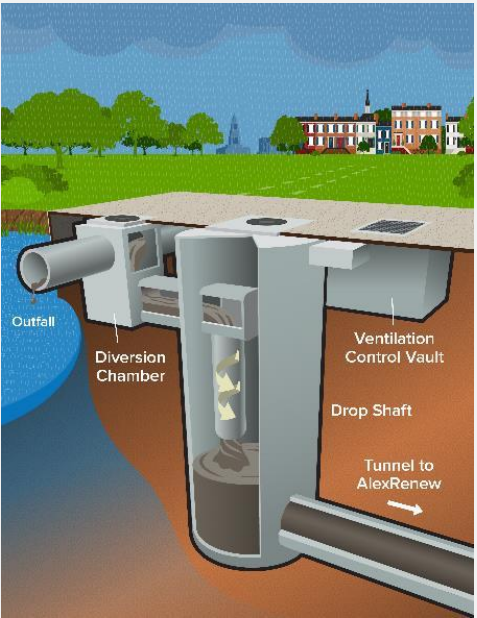
**Strong local
presence
for the past
99 years**

Tunnel Project Schedule and Next Steps

Tunnel Project Schedule

■ Design
 ■ Construction
 ■ Commissioning
 ■ Punchlist

Project Component	2021	2022	2023	2024	2025	2026
Overall						
WRRF						
Outfall 001						
Outfall 002						
Waterfront Tunnel						
Hooffs Run Interceptor						
Pumping Station						



RiverRenew Next Steps

- **Council-Board Workgroup Quarter 2 Meeting** | April 2021
- **Building J Project Completion** | April 2021
- Virtual **Community Listening Session** to Meet Traylor-Shea | last week of February 2021
- Virtual **2021-2022 Stakeholder Advisory Group** Meeting | February 2021
- **Groundbreaking** at AlexRenew | Summer 2021
- **Tunnel Boring Machine** Purchase Order from Manufacturer | Summer 2021



To learn more, visit www.RiverRenew.com