

City Council/AlexRenew Board CSO Subcommittee/Workgroup

Meeting No. 15

July 13, 2022



Major Updates since April Meeting

- General Assembly House Bill 30, included **\$40 million of American Rescue Plan Act (ARPA) funding** for RiverRenew
- General Assembly House Bill 29, ensured AlexRenew can receive **\$50 million ARPA funding** previously appropriated
- **Tunnel Boring Machine** delivered to AlexRenew
- **Shaft excavation ongoing** at AlexRenew
- **Shaft slurry wall construction** underway at Royal Street Site
- **Hooffs Run Interceptor** construction progressing

Today's Presentation

- Tunnel Project Update
- Tunnel Project Look-Ahead
- Community Outreach



Tunnel Project Update

RiverRenew Tunnel Project construction schedule.

Construction Staging Area	2021	2022	2023	2024	2025
AlexRenew	Grey, Dark Blue	Orange, Red	Pink	Blue	Green
Pendleton Street	Grey	Dark Blue	Orange, Blue	Pink, Blue	Green
Royal Street	Grey	Dark Blue	Orange, Blue, Pink	Blue	Green
Hooffs Run Interceptor					
Jamieson Avenue	Grey	Dark Blue, Blue, Green	Diagonal Stripes	Green	
AAHP		Grey, Dark Blue	Diagonal Stripes	Green	

Note: Schedule is generalized and subject to change



Site Preparation



Support of Excavation



Excavation



Cut and Cover



Permanent Structures



Tunneling



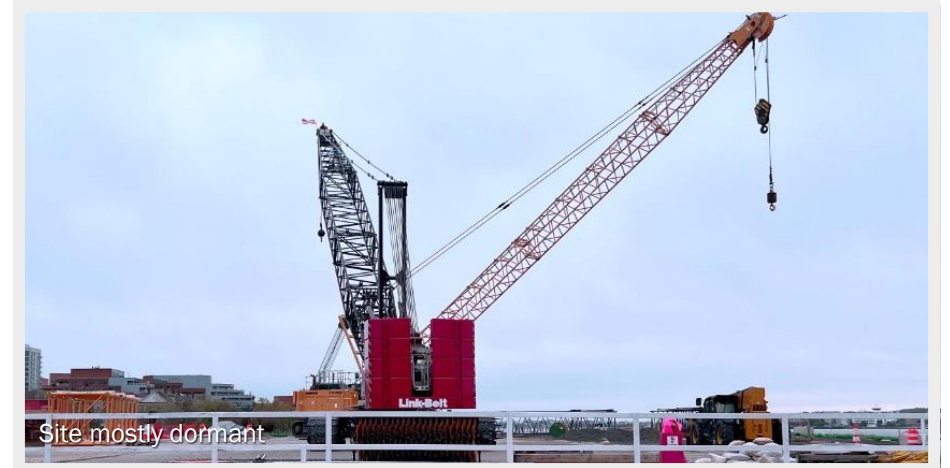
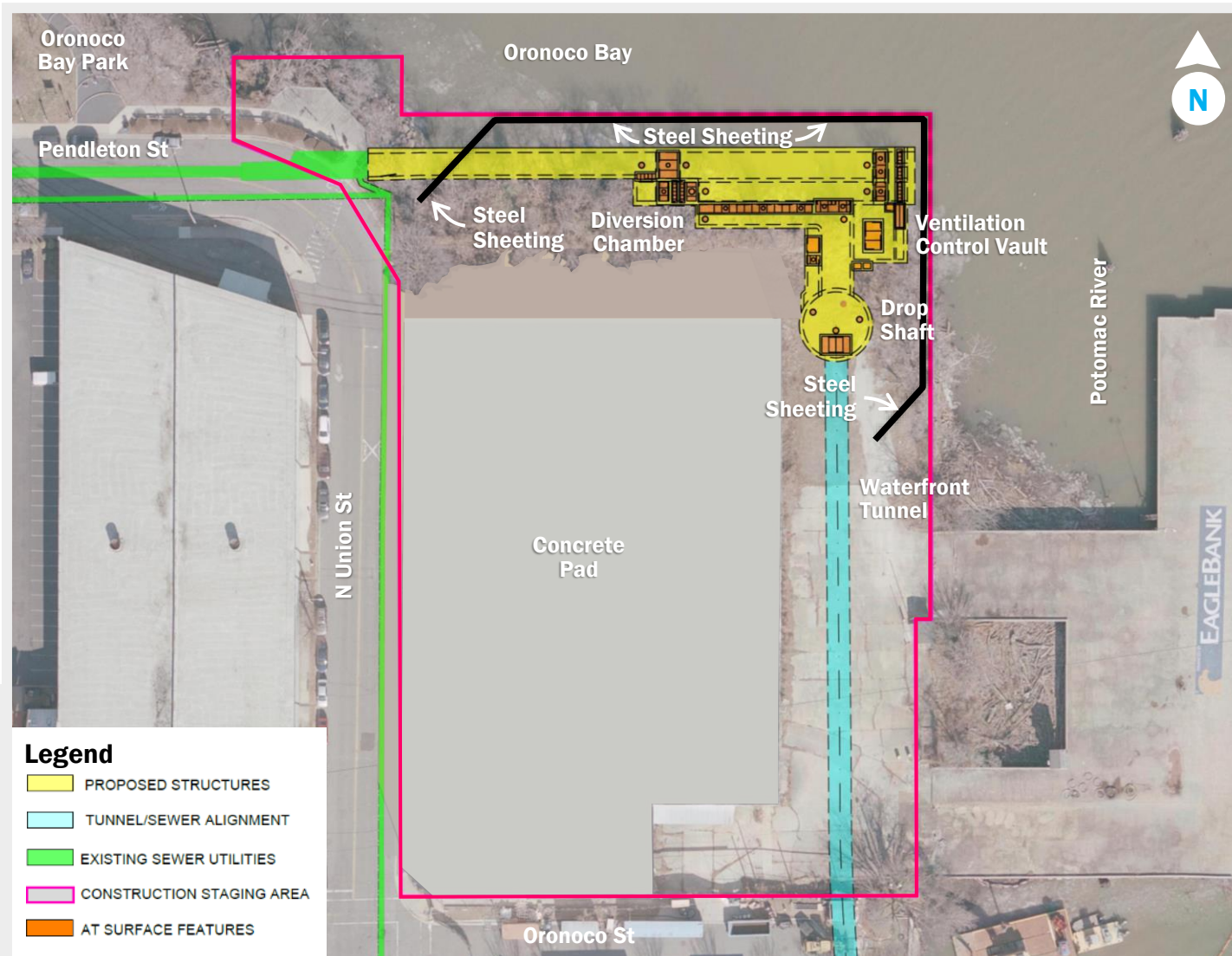
Restoration

Summary of RiverRenew Tunnel Project noise variances with the City of Alexandria.

Site	Activity	Noise variance	Hauling	Dates
Pendleton Street	Shaft slurry walls	24/7 (11 days total)	24/7 (11 days total)	Aug 2022 – Dec 2022
	Shaft excavation	5 a.m. – 11 p.m. (Mon-Fri)	7 a.m. – 6 p.m. (Mon-Fri)	Dec 2022 – May 2023
	TBM removal	24/7	7 a.m. – 6 p.m. (Mon-Fri)	Oct 2023 – Dec 2023
Royal Street	Shaft slurry walls	24/7 (9 days total)	24/7 (9 days total)	Thru Aug 2022
	Shaft excavation	5 a.m. – 11 p.m. (Mon-Fri)	7 a.m. – 6 p.m. (Mon-Fri)	Sep 2022 – Dec 2022
AlexRenew	Shaft excavation	6 a.m. – 2 a.m. (Mon-Fri)	7 a.m. – 6 p.m. (Mon-Fri)	Thru Aug 2022
	Tunnel construction	24/7	7 a.m. – 6 p.m. (Mon-Fri)	Aug 2022 – Oct 2023



Pendleton Street Site design and construction update.



Design Progress

Actual Planned As of June 30, 2022



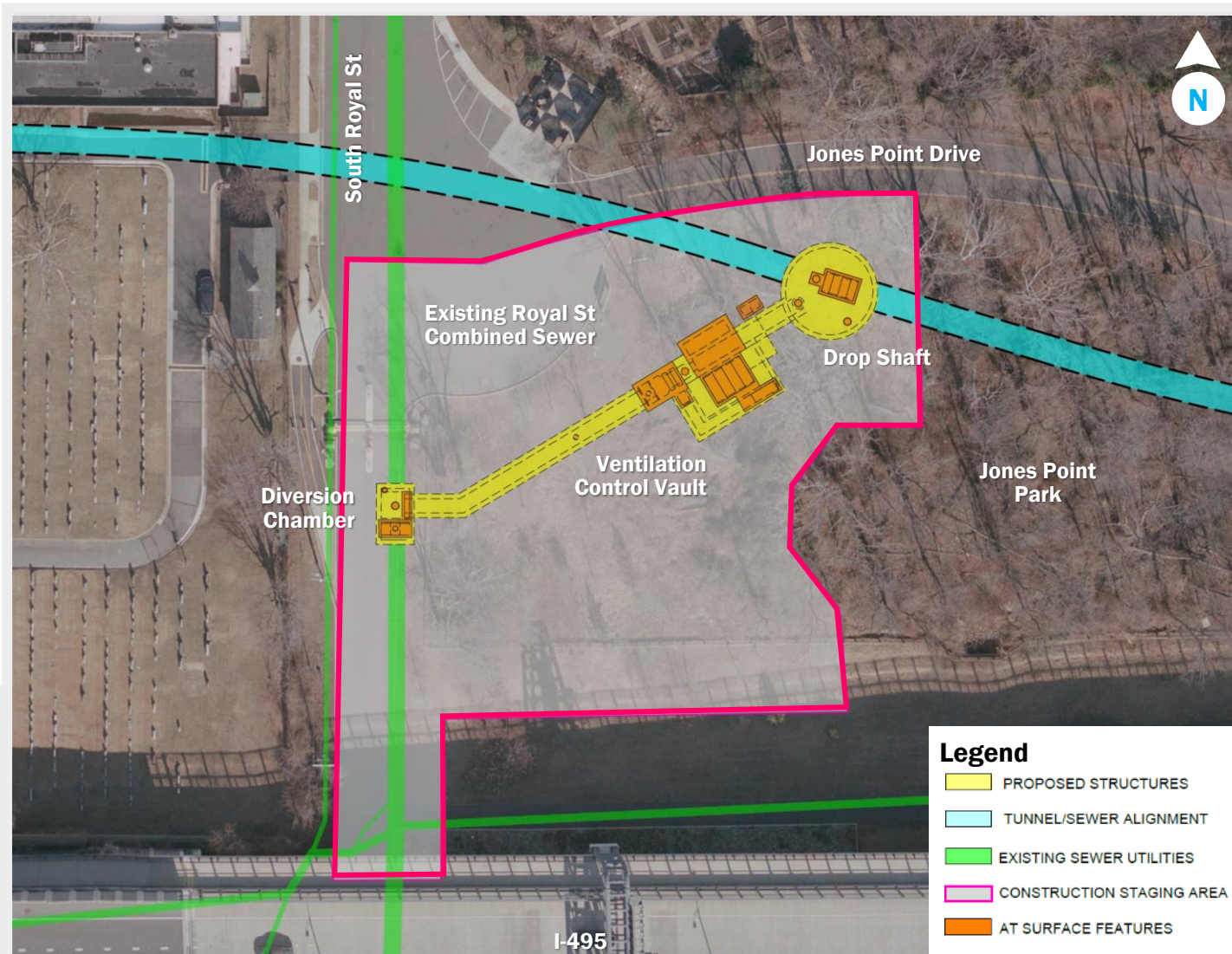
Construction Progress



Major Activities

- Preparing site for backfill
- Site mostly dormant until shaft construction begins in Aug 2022

Royal Street Site design and construction update.



Design Progress

■ Actual ▨ Planned As of June 30, 2022



Construction Progress



Major Activities

- Shaft slurry wall construction ongoing
- Bathtub panels completed

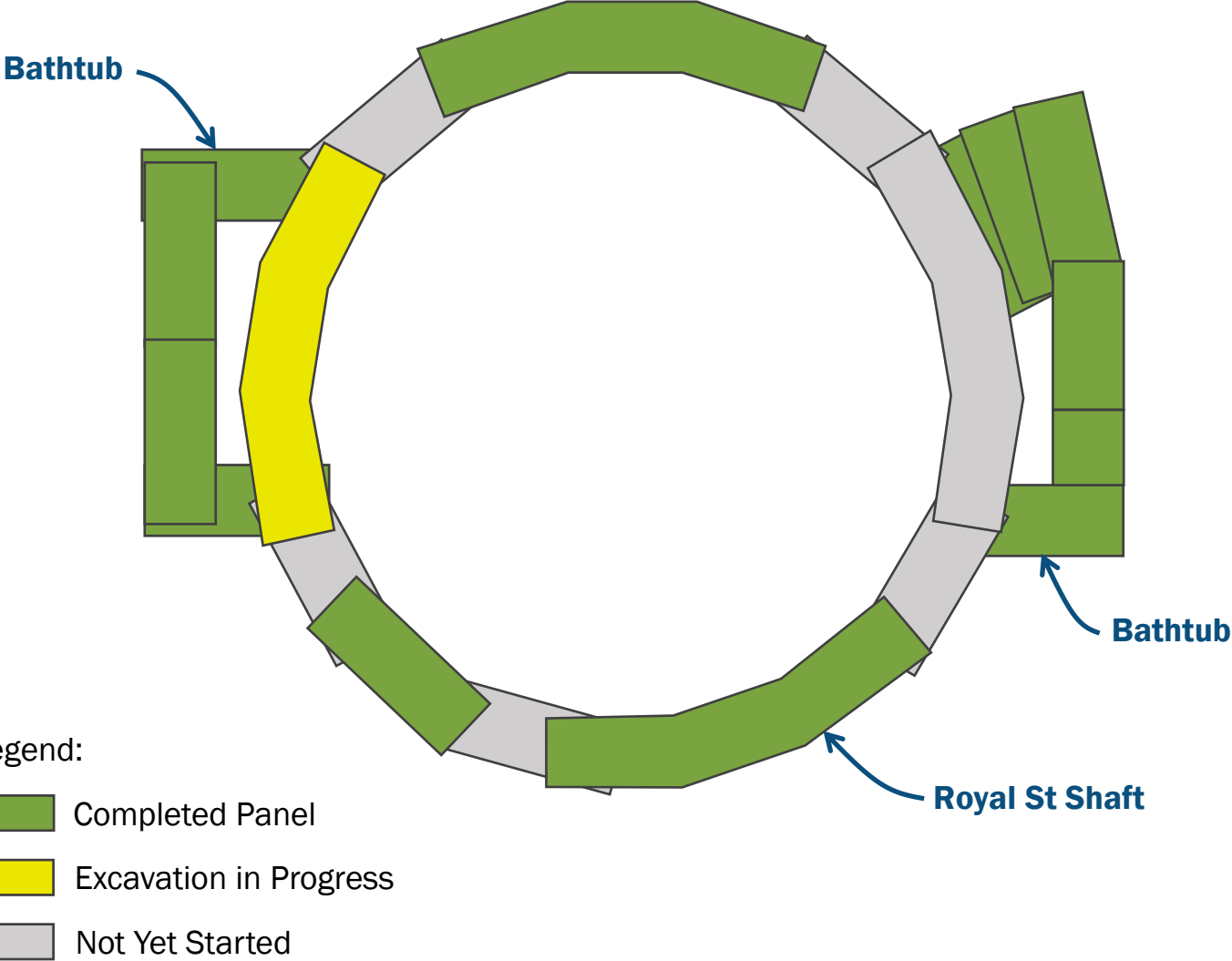
Shaft slurry wall progress at Royal Street.



2,700+ cubic yards (~340 trucks)
Concrete placed to-date



93,000+ pounds (46+ tons)
Rebar installed to-date





Flyers distributed for extended work hours at Royal Street Site

Haul routes are subject to review and approval by the City of Alexandria



S Patrick St

S Alfred St

S Columbus St

Washington St

Jefferson St

Green St

S St Asaph St

S Pitt St

S Royal St

Church St

Gibbon St

Franklin St

Heads Up!

Extended work hours on July 14* at the Royal Street site.

*Timing of extended work hours is subject to change pending COVID-19 availability.

River/ReNew crews are busy constructing shaft slurry wells at the **ROYAL STREET** site as part of our mission to prevent millions of gallons of combined sewage from polluting local waterways each year.

To complete this important work, crews will be working extended hours on July 14 to accommodate the placement of approximately 500 yards of concrete that will form sturdy temporary shaft walls.

What you can expect:

- Crews working within the fenceline at the end of South Royal Street outside of normal work hours (7 a.m. to 6 p.m.)
- Concrete delivery outside of normal work hours
- About 60 trucks over the course of the work day along South Royal, Franklin, and Gibbon Streets

Please note that this work is permitted through the City of Alexandria and necessary to accommodate these large concrete pours to keep us on schedule.

We greatly appreciate your patience as we build toward healthier waterways for Alexandria. Email us at askriverrenew@alexrenew.com or call the construction hotline at 1.800.234.6592 with any questions.



Scan the QR code to learn more about River/ReNew and shaft slurry wall construction at the Royal Street site.

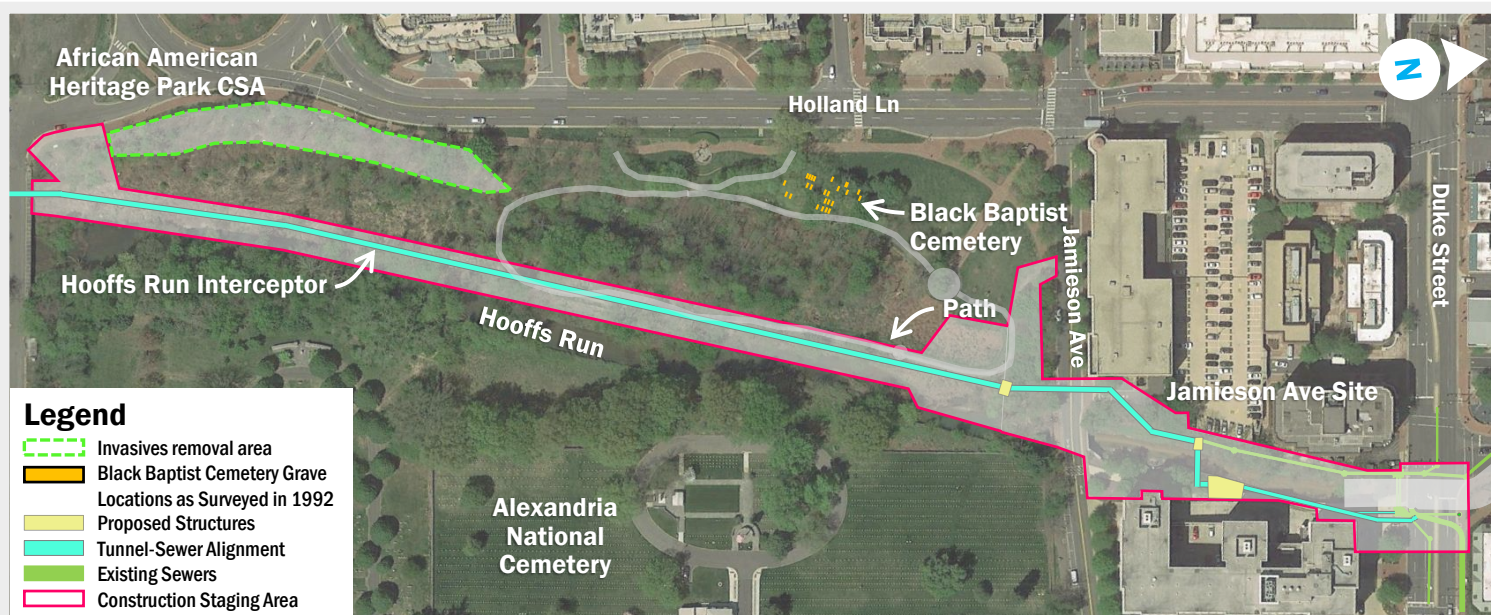
Sign-up for alerts at riverrenew.com/construction/alerts so we can keep you up to date on important project updates and notifications.



LEGEND

- Inbound/Outbound Route
- Outbound Route
- Inbound Route
- Royal Street CSA
- Properties for Flyer Distribution

Hooffs Run Interceptor design and construction update.

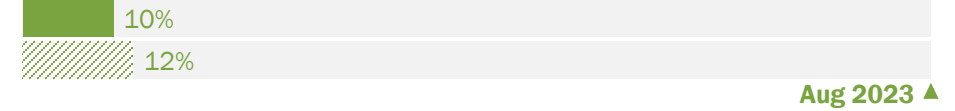


Design Progress

■ Actual ▨ Planned As of June 30, 2022



Construction Progress

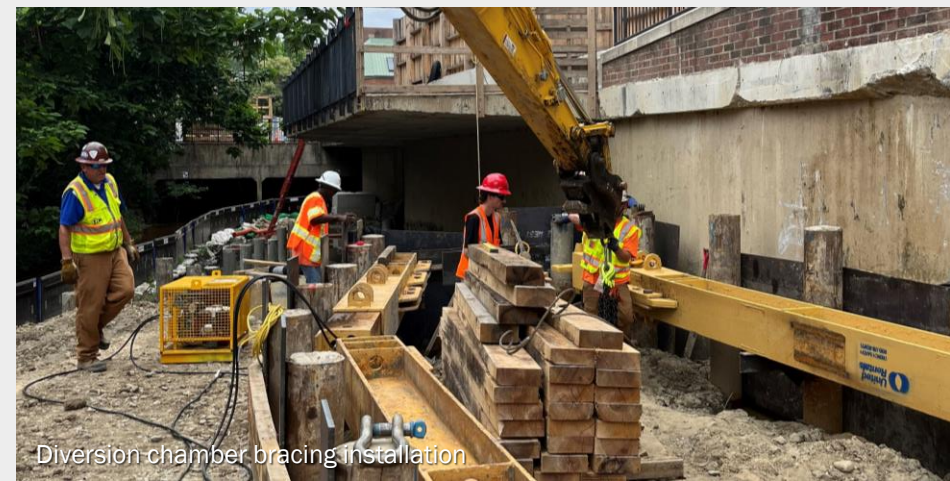


Major Activities

- Diversion chamber excavation started
- Outfall 003 extension sewer excavation started
- African American Heritage Park Site support of excavation started

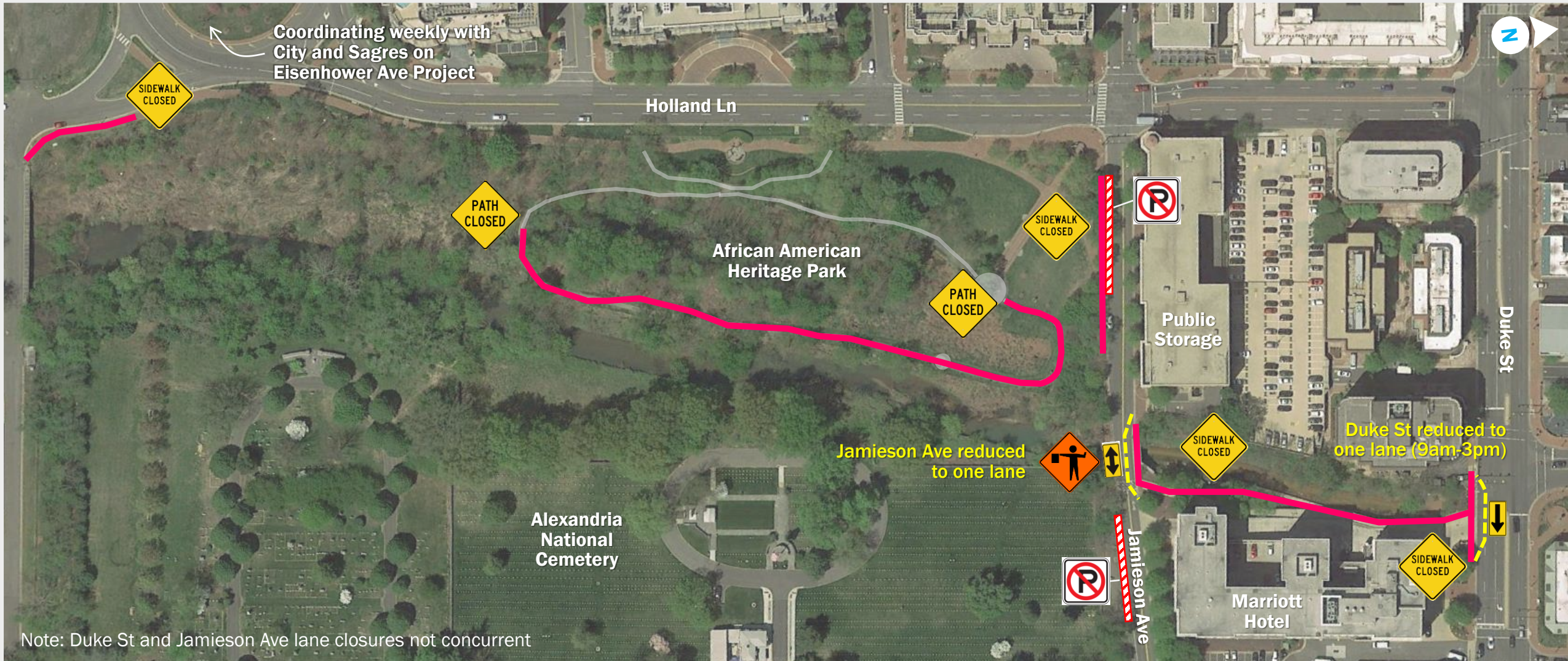


◀ African American Heritage Park Site

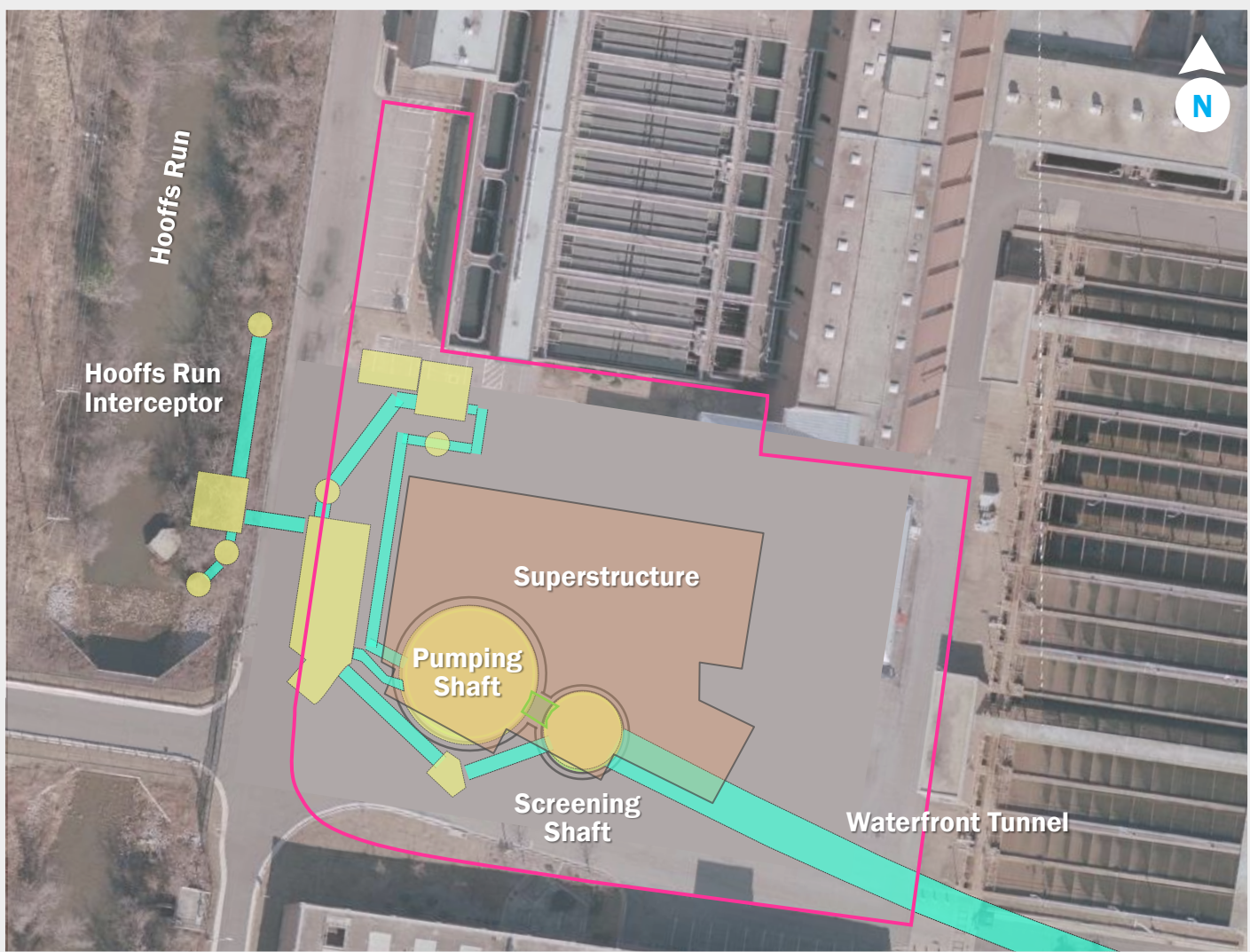


◀ Jamieson Avenue Site

Hooffs Run Interceptor road and sidewalk impacts through August 2023.



AlexRenew design and construction update.

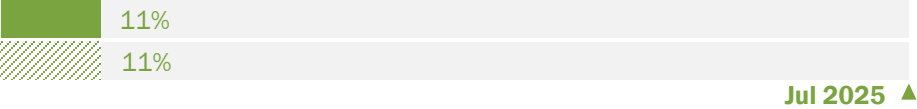


Design Progress

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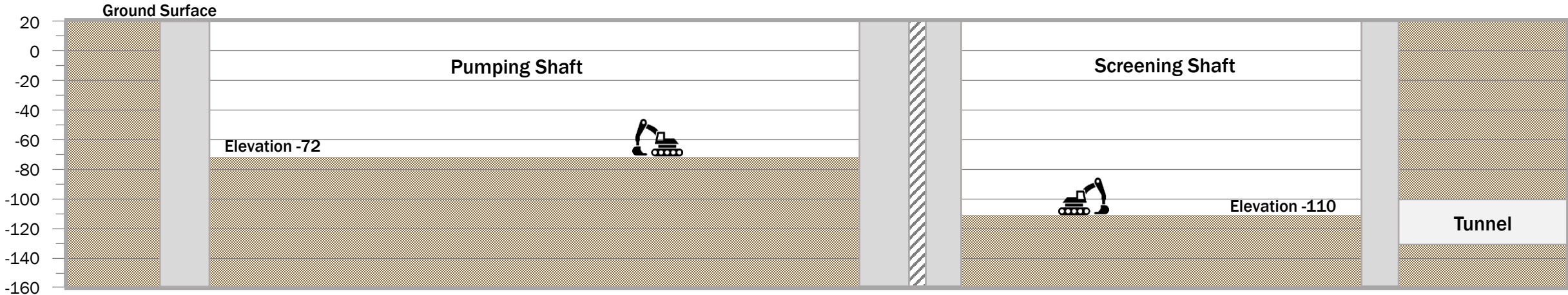
Construction Progress



Major Activities

- Depressurization wells completed
- Screening Shaft excavation nearing completion
- Pumping Shaft excavation ongoing
- TBM on-site

AlexRenew shaft excavation progress.



Note: Horizontal scale exaggerated

A high-angle, wide shot of a large circular shaft under construction. The shaft's walls are made of light-colored, textured concrete or earth. At the top, a large crane is visible against a clear blue sky. A worker in a blue safety harness is suspended in a blue metal basket, positioned near a large, dark, cylindrical pipe that runs vertically down the shaft. The scene is brightly lit, suggesting daytime. The overall atmosphere is one of active industrial construction.

Tunnel Project Look-Ahead

Tunnel umbilical installation in Screening Shaft at AlexRenew

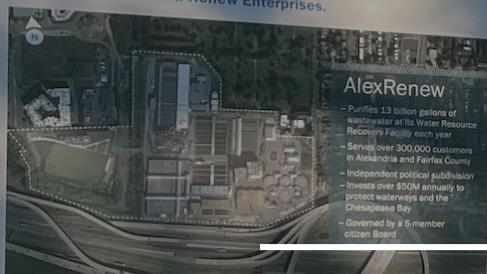
RiverRenew Tunnel Project activities over the next six months.

Construction Site	Aug	Sep	Oct	Nov	Dec	Jan
Pendleton St	Site dormant	Construct Shaft Slurry Wall			Shaft Excavation	
Royal St	Slurry Wall	Shaft Excavation			NSS Support of Excavation	
Hooffs Run North of Jamieson	Diversion Chamber Construction					
	Outfall 003 Extension and Sanitary Sewers			Open Cut Construction		
Hooffs Run South of Jamieson	Junction Chamber Construction		Open Cut Construction			
AlexRenew	Assemble and Lower TBM		TBM Initial Drive	Install Vertical Conveyor	Tunneling	
				PS Excavation	Pumping Shaft Base Slab and Waterproofing	
	Near Surface Structures (NSS) SOE		Hooffs Run Interceptor (Trenchless)		NSS Piles	

Note: Schedule is generalized and subject to change

Community Outreach

Overview of Alexandria Renew Enterprises.



AlexRenew

- Purifies 1.3 billion gallons of wastewater at its Water Resource Recovery Facility each year
- Serves over 300,000 customers in Alexandria and Fairfax County
- Independent political subdivision
- Invests over \$50M annually to protect waterways and the Chesapeake Bay
- Governed by a 5-member citizen Board

Alexandria, VA is served by both separate and combined sewer systems.



Each year, 540 million gallons of combined sewage are pumped to a wastewater treatment facility.



Upcoming Community Events.



RIVERRENEW TBM
**WELCOME
RECEPTION**
Presented by AlexRenew

SAVE THE DATE

The **subterranean** star of Alexandria's largest infrastructure project will soon arrive. Experience the debut of the RiverRenew tunnel boring machine as our esteemed guest.

JULY 14, 2022 | 9 A.M. – 11 A.M.



Upcoming RiverRenew Community Listening Sessions

July 11 - 14
6:30 - 8:30 p.m.



2022-23 Stakeholder Advisory Group Meetings

- July 21
- September 15

Sip 'n See Events

Hooffs Run: Tues 10-1
Royal St: Weds 10-1

Public Comment Period

Tunnel Boring Machine on barge in Occoquan, VA



RiverRenewTM

INVESTING IN HEALTHIER WATERWAYS FOR ALEXANDRIA