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2022-2023 RiverRenew Stakeholder Advisory Group

Meeting No. 5

November 17, 2022

Recap from September Meeting

- Provided a summary of noise variances with the City of Alexandria
- Tunnel Project Update
- Community Outreach Update

Tonight's Presentation

- SAG Feedback
- Tunnel Project Update
- Community Outreach Update
- Major Takeaways

SAG Feedback



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

Tunnel Project Update

and a protect

HGL Control Structure support of excavation at AlexRenew

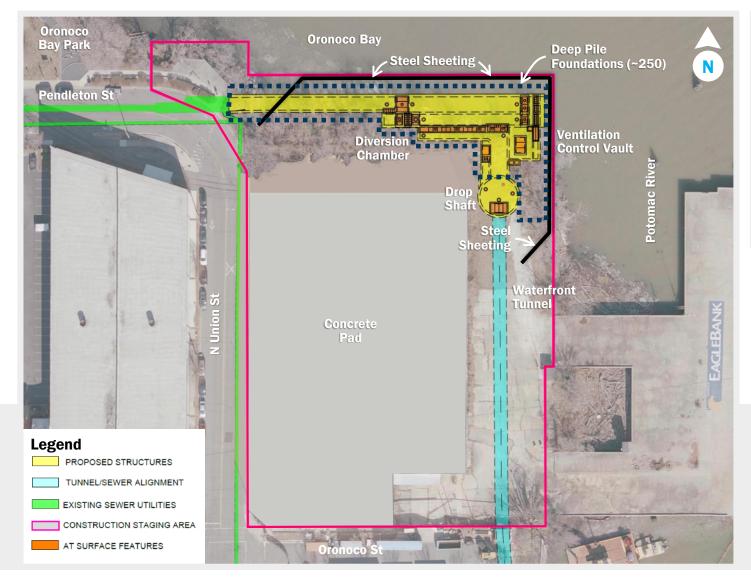
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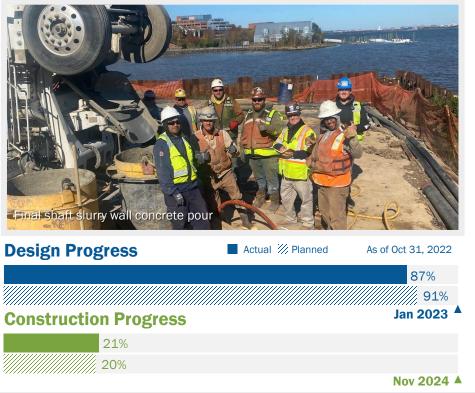
RR HS 855

Summary of RiverRenew Tunnel Project noise variances permitted by the City of Alexandria.

Site	Activity	Noise variance	Hauling	Dates
Pendleton Street	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
AlexRenew	Tunnel construction	24/7	7 a.m. – 6 p.m. (Mon-Fri)	Aug 2022 – Oct 2023

Pendleton Street Site design and construction update.





Major Activities

- Shaft slurry wall construction complete
- Preparing site for shaft excavation

Pile driving at the Pendleton Street Site will start mid-January 2023 and last through May 2023.

- 250 steel H-piles to depth of 100-feet
- Vertical and angled
- Foundation for diversion facility and promenade
- Accelerated schedule to meet milestone
- 9 a.m. 6 p.m., Mon-Fri





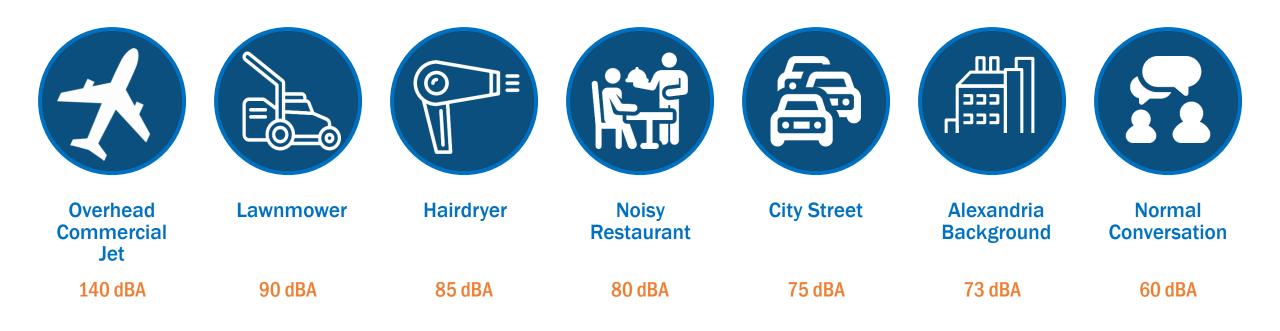
Video of steel pile driving using a diesel impact hammer.



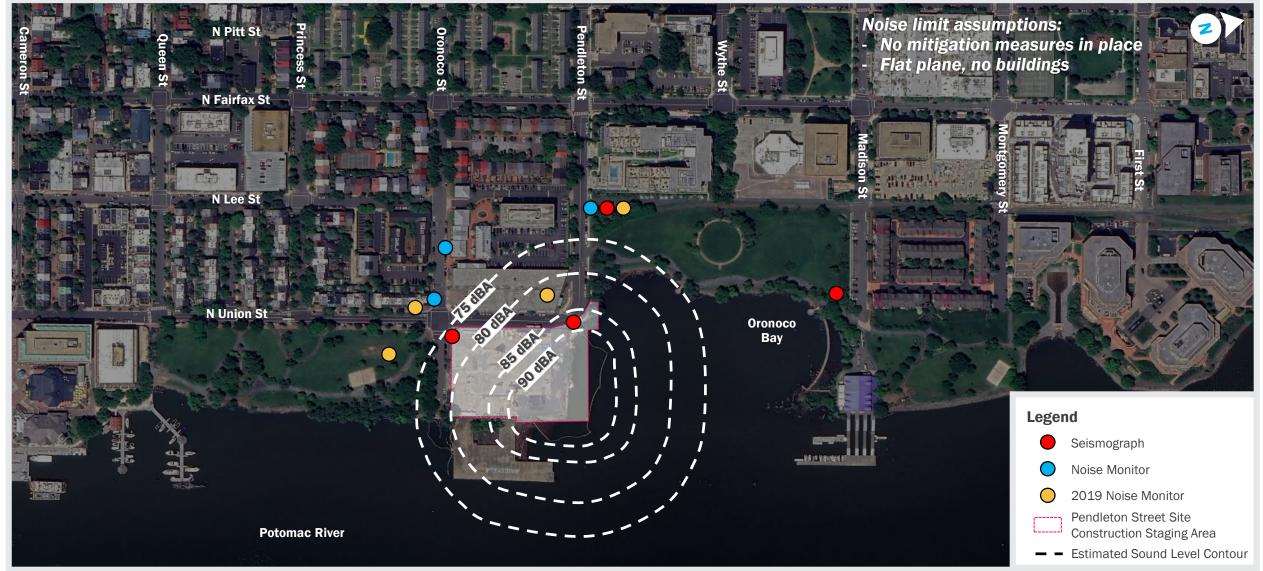
How do we measure noise level and what does it mean?

Noise level is measured in **decibels** (dB). The higher the decibels, the louder the noise. A **dBA** is a weighted scale for judging loudness that corresponds to the hearing threshold of the human ear.

Leq represents the total decibels logged over a time period.



Estimated limits of noise associated with pile driving operations at Pendleton Street Site.



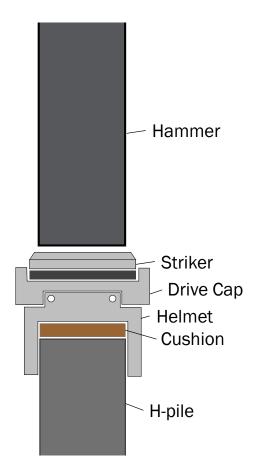
Proposed mitigations to limit noise associated with pile driving activities



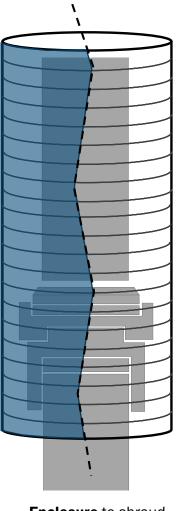
Stacked conex boxes to deflect noise away from the community.



Sound blankets along fence to dampen noise



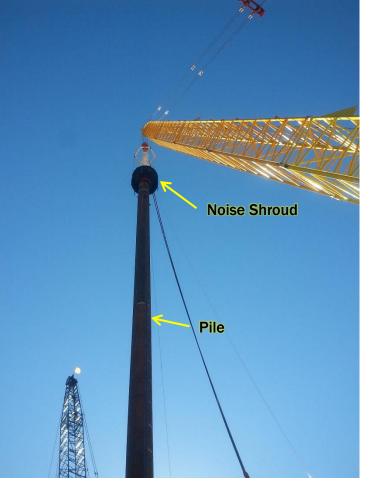
Cushion to dampen contact with H-pile



Enclosure to shroud the impact hammer

Pile driving noise shroud in action on Tappan Zee Bridge project.







Pendleton Street Site pile driving outreach campaign.

- Sip 'n See:
 - Thursdays 11 a.m. 1 p.m.
 - "Special Edition" during pile driving activities
- Social media content
- Website updates and alerts
- Email to RiverRenew group
- Targeted City eNews
- Updates through Stakeholder Advisory and Council-Board Workgroups
- Flyer distribution to local neighborhood

Some machines are so excited for a cleaner Potomac they can get a little **loud**...

To help keep RiverRenew on schedule, our crews need to use Wayne the Crawler Crane's impact hammer to install steel piles at the Pendleton Street site. These will provide a sturdy foundation to support the future diversion facility and promenade connecting the community to a healthier Potomac River.

The impact hammer forces steel piles to depths of 100 feet into the soil. Unavoidably, this process emits a repeated hammering sound and may be disruptive to those sensitive to noise.

This work will occur between the hours of 9 a.m. and 6 p.m. ET, Monday through Friday, between mid-January and May 2023.

To learn more about this essential work, scan the QR code to visit RiverRenew.com or email us directly at AskRiverRenew@alexrenew.com.



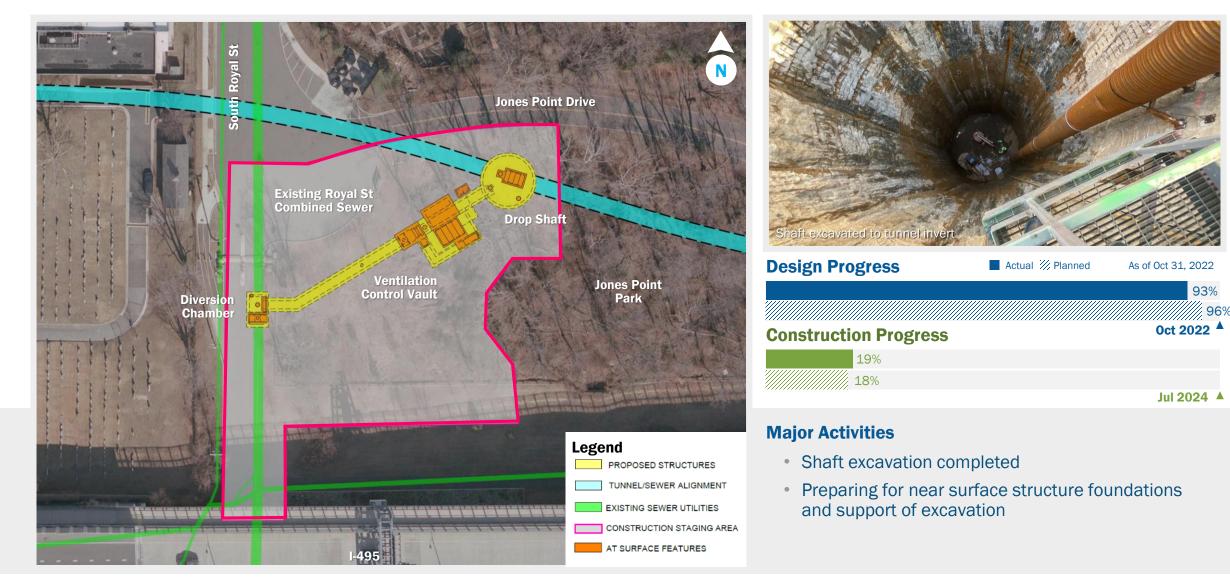
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Major construction activities in the next 6 months at Pendleton Street Site.

Dec	Jan	Feb	Mar	Apr	Мау	
	Shaft Excavation	Permanent Concrete				
	Near Surface Structures (NSS) Deep Foundations and Support of Excavation (SOE)					
5 a.m.– 11 p.m Mon–Fri		9 a.m.–6 p.m. Mon–Fri		7a.m6p.m. Mon-Fri		
No anticipated impacts to sidewalks, bicycle routes, or travel lanes		No anticipated impacts to sidewalks, bicycle routes, or travel lanes		No anticipated impacts to sidewalks, bicycle routes, or travel lanes		
70 truc	ks/day	15 truc	ks/day	70 truc	cks/day	
Shaft Excavation		Near Surface Structures Deep Foundations (Pile Driving Activities)		Permanent Concrete Construction		



Royal Street Site design and construction update.



Major construction activities in the next 6 months at Royal Street Site.

Dec	Jan	Feb	Mar	Apr	Мау
Site Prep for SOE	Near Surface Structure	es Support of Excavation (SOE) and Foundation Piles		Near Surface Structures Construction	
<image/>					Existing Commonwealth Interceptor
7 a.m.– 6 p.m. Mon–Fri		7 a.m. – 6 p.m. Mon-Fri		7 a.m. – 6 p.m. Mon-Fri	
No anticipated impacts to sidewalks, bicycle routes, or travel lanes		No anticipated impacts to sidewalks, bicycle routes, or travel lanes		No anticipated impacts to sidewalks, bicycle routes, or travel lanes	
10 truc	ks/day	20 truc	ks/day	30 truc	≿ks∕day
Site Prep for SOE and Foundation Piles		Near Surface Structures Support of Excavation and Foundation Piles		Near Surface Structures Construction	



Hooffs Run Interceptor design and construction update.





Major Activities

- Jamieson Ave Site diversion chamber and extension sewer construction ongoing
- African American Heritage Park Site junction chamber construction ongoing

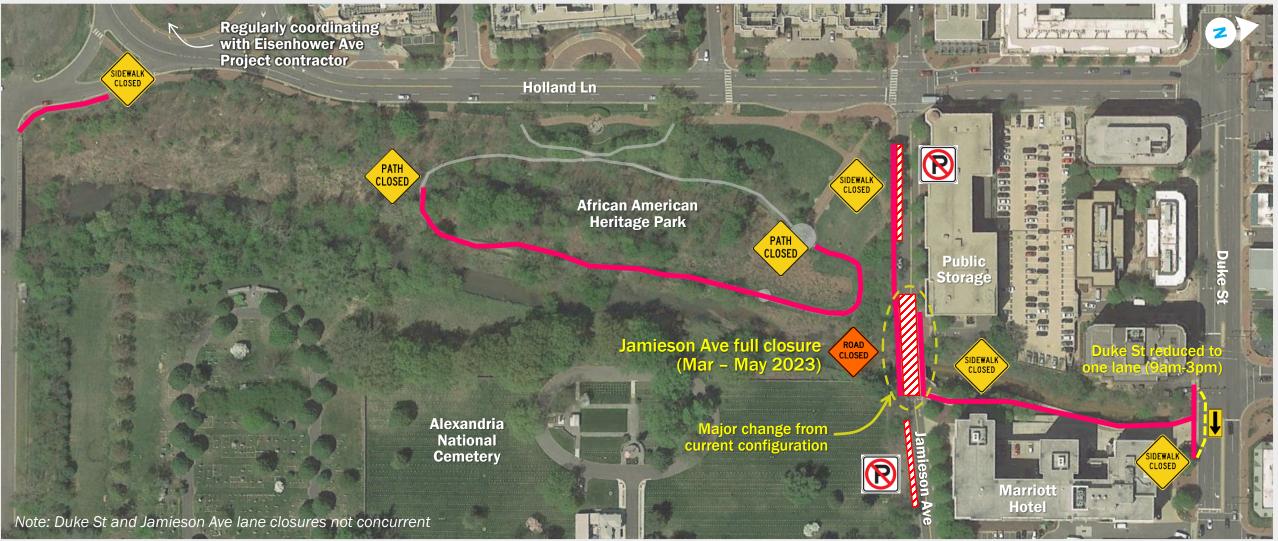


 African American Heritage Park Site

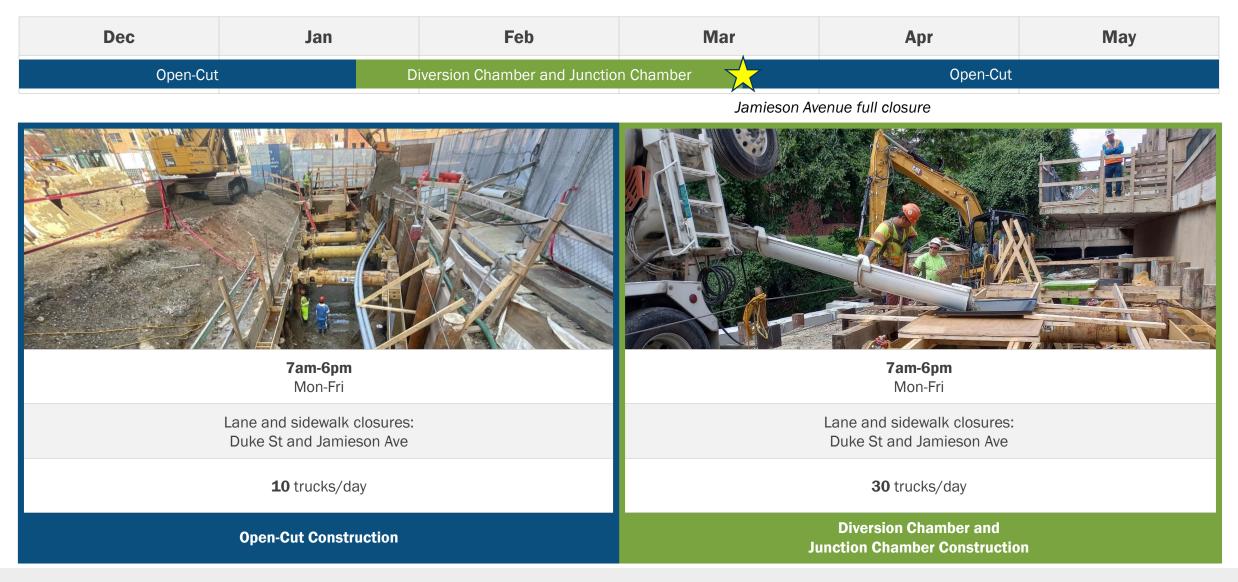


 Jamieson Avenue Site

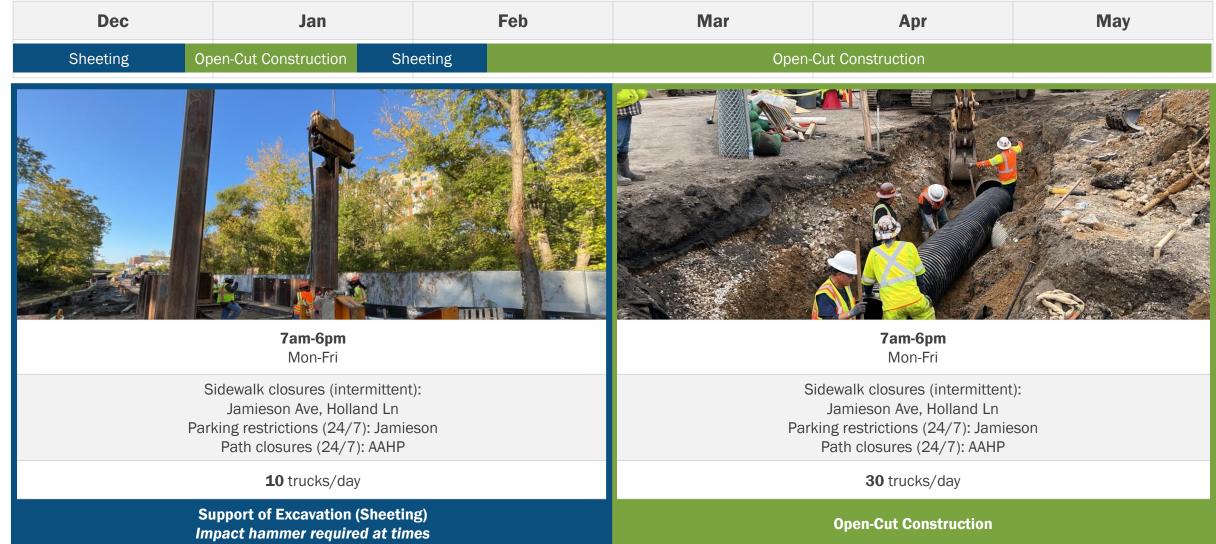
Upcoming road and sidewalk changes associated with Hooffs Run Interceptor (March – May 2023).



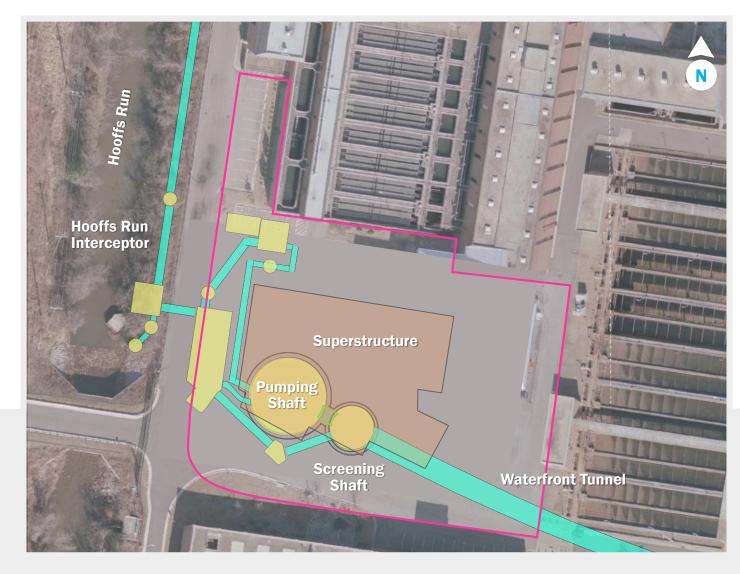
Major construction activities in the next 6 months at Jamieson Avenue Site.



Major construction activities in the next 6 months at African American Heritage Park Site.



AlexRenew design and construction update.



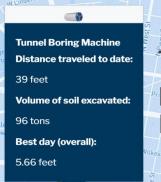


Major Activities

- TBM commissioned and launched
- Near surface structure support of excavation started

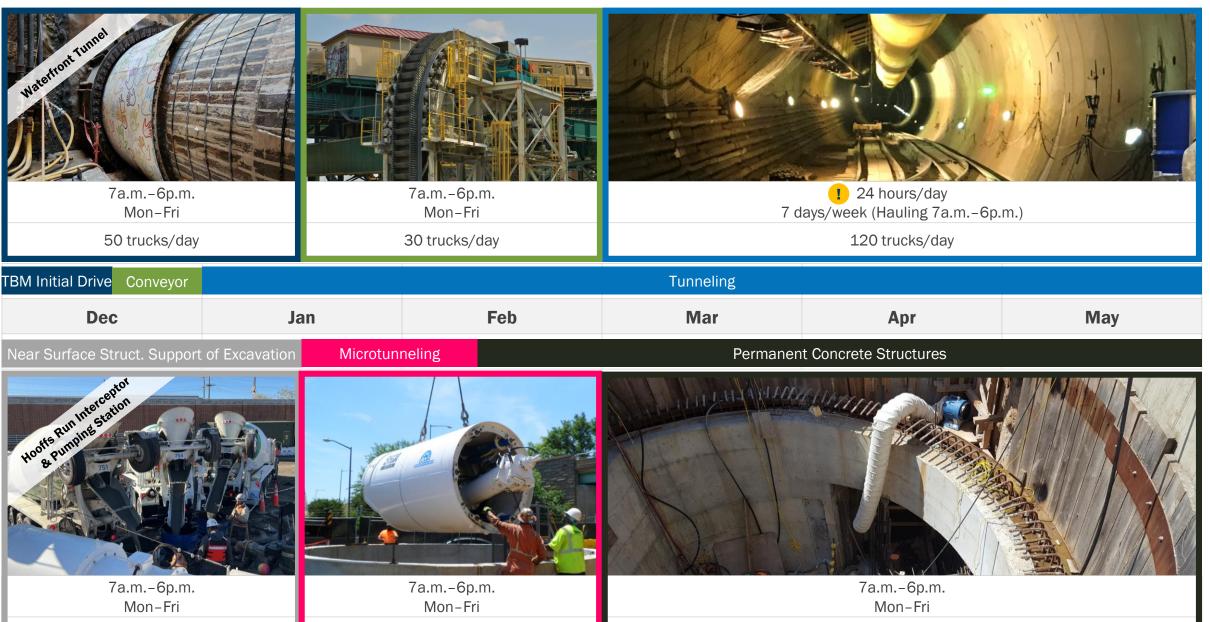
Hazel the TBM launched on November 4.





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Major construction activities in the next 6 months at AlexRenew Site.



50 trucks/day

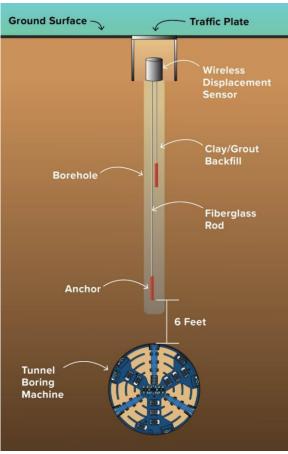
50 trucks/day

30 Trucks/day

Proposed Waterfront Tunnel instrumentation along Church Street between South Patrick and South Royal Streets.



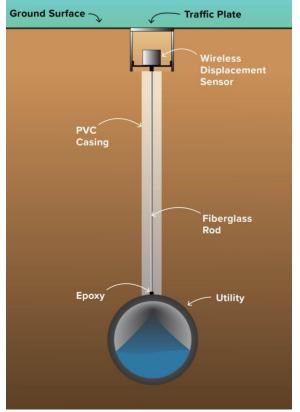
Types of instrumentation to be installed along Church Street.



Extensometers measure potential ground movement above the centerline of the tunnel boring machine.



Ground Monitoring Points are passive, surface mounted devises used to survey the ground surface before, during, and after tunnel construction.



Utility Monitoring Points measure potential utility movement.



Structural Monitoring Points are passive devices used to survey a structure before, during, and after tunnel construction.

Community Outreach Update

Sip 'n See at Pendleton Street Site

Upcoming community outreach.







2022-23 Stakeholder **Advisory Group** Meeting • January 19





Sip 'n See Events Hooffs Run: Tues 11-1 Royal St: Weds 11-1

Meeting Takeaways

- Pile driving upcoming at Pendleton Street mid-Jan – May 2023
 - Outreach campaign to notify residents is underway
- Shaft excavation complete at Royal Street Site
- Instrumentation to be installed along Church Street
- Sidewalk and path impacts at AAHP ongoing
- Jamieson Avenue full closure anticipated Mar – May 2023
- Waterfront Tunnel construction underway



COO RiverRenew[™]