

The B&P Tunnel Replacement Plan: Community View from Ground Zero

TRANSIT CHOICES Presentation 27 April 2023 - 8:30 to 9:30 AM Laura Amlie, RATT President

Why we Residents are Against the current B&P Tunnel Replacement Plan

The Actual Problem

The proposed "solution" which we object to

From National FREIGHT Perspective

- Freight the Elephant in the B&P room. PR war
- Proven Safety problems, rerouting long recommended
- Infrastructure Opportunity demanded for decades to ease hazmat issues

From AMTRAK/Passenger Transit perspective -

- What is the real ROI on \$6billion transit money?
- Is this freight-oriented solution really the most cost & transit-effective answer for Amtrak?

From a community and Environmental Justice Perspective

- Construction & operation with inadequate testing, mitigation, and recovery
- Environmental Justice

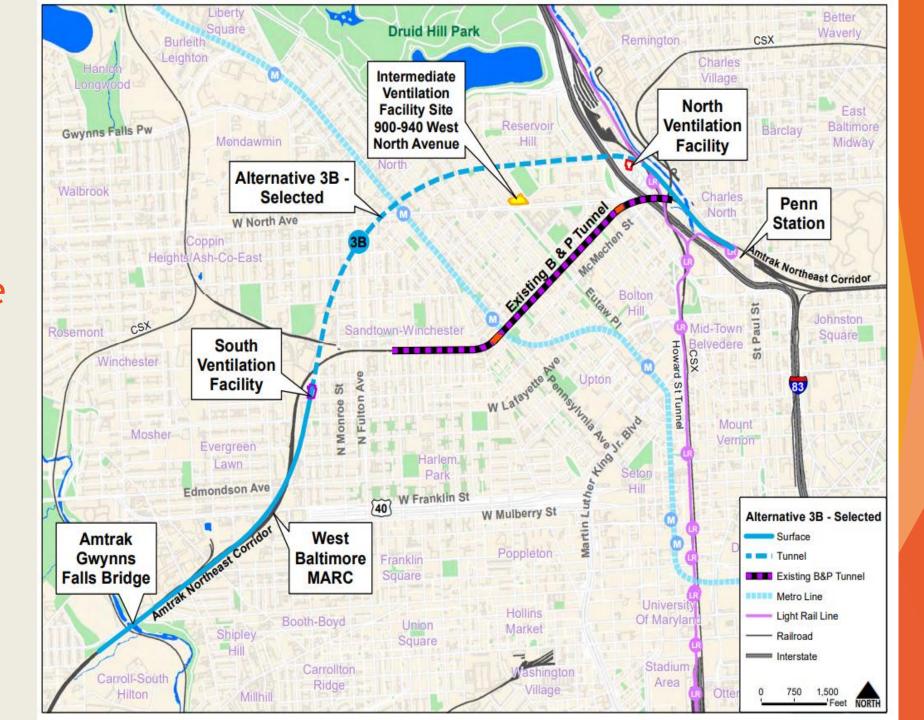
What we are seeking

- Whom does this help?
- Whom/what does it hurt?
- Is there a better balance, a less destructive route for a new B&P Tunnel?



Current proposed solution approved in the Record of Decision.

Selected Route 3B



FREIGHT

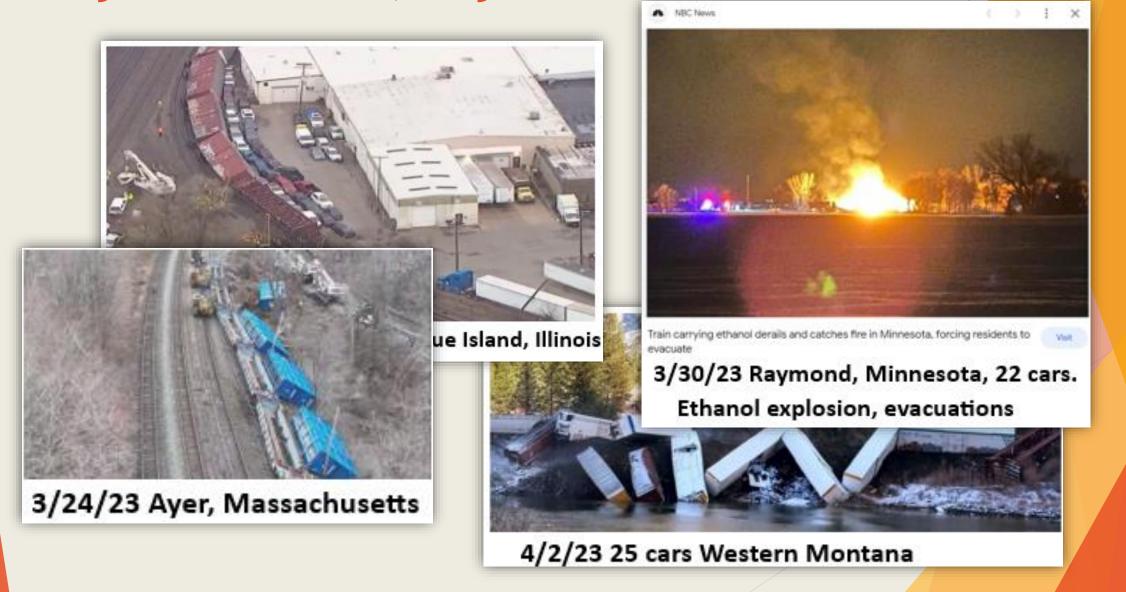
"Make no mistake; this is a freight project."

(Frustrated Amtrak Rep in a side conversation at community meeting)

- "Freight" used 46 times in the needs assessment = driving force dictating specs
- ONLY routes allowing four double-stack freight tubes were even considered
- RRA /Rail Freight are extremely powerful, often in charge of studies in their own self-interest. Some even say they 'run the FRA.'
- The Port Authority spoke of it as 'their' project at 2018 meeting
- The chosen route leads directly to the freight yards
- So why is all the news about Amtrak? The initial study observation that "communities might object to freight" prompted a PR deception war to downplay freight right up to the point of denial with weasel worded, selective truth press, announcements, and events. Yet when pushed, they say "Freight is inevitable" and insist they retain the right to implement the ROD decision for (at least 2 of 4) double-stack diesel freight tubes. They're working hard to keep this out of the news However

Rail Freight in the news

In just 3 months, in just the USA -



In just 3 months, in just

https://apnews.com > article > southern-california-moj...

Tracks reopen after freight train derails in Mojave Desert 📀

Mar 28, 2023 — There were no injuries when the **freight train** carrying iron ore went off the tracks Monday morning in the Mojave National Preserve, Union ...



Fortune

https://fortune.com > 2023/04/17 > union-pacific-freight...

Freight train collision in Texas injures 2 in latest derailment

Apr 17, 2023 — A locomotive engineer and conductor were being treated for injuries after the southbound **train derailed** following the accident near County ...

E

The New York Times

https://www.nytimes.com > 2023/03/16 > train-derails-ari...

Freight Train Carrying Corn Syrup Derails in Arizona

Mar 16, 2023 — A **freight train** that **derailed** in western Arizona on Wednesday night was carrying corn syrup, its operator said, hours after a report ...

3/24/23 Ayer, Massachusetts

nol derails and catches fire in Minnesota, forcing residents to

Raymond, Minnesota, 22 cars. ol explosion, evacuations

4/2/23 25 cars Western Montana

7:58 AM / MARCH 30, 2023

In just 3 mon

https://apnews.com > article > southern-california-moj...

West Virginia train derailment leaks diesel and oil into one of North America's oldest and federally protected rivers

Tracks reopen after freight train derails in mojave peserta

Mar 28, 2023 — There were no injuries when the **freight train** carr Monday morning in the Mojave National Preserve, Union ...

7:32 AM / MARCH 30, 2023

Train derails in Butler County, Pennsylvania

On March 29, no one was injured after a train derailed in Butler County, Pennsylvania.

VISCONSIN NEWS >

Train derails near Wisconsin-Iowa border; 2 cars float down Mississippi River



BY WCCO STAF

UPDATED ON: APRIL 27, 2023 / 3:16 PM / CBS MINNESOTA



https://fortune.com > 2023/04/17 > union-pacific-freight...

Freight train collision in Texas injures 2 in latest derailment

Apr 17, 2023 — A locomotive engineer and conductor were being treated for injuries after the southbound **train derailed** following the accident near County ...



The New York Times

https://www.nytimes.com > 2023/03/16 > train-derails-ar

Freight Train Carrying Corn Syrup Dera

Mar 16, 2023 — A **freight train** that **derailed** in western corn syrup, its operator said, hours after a report ...

3/24/23 Ayer, Massachuset

7:10 AM / MARCH 30, 2023

Train derailment in North Dakota spills chemicals near Minnesota border

On March 26, a Canadian Pacific train derailed in rural North Dakota and spilled hazardous materials. Local authorities and the railroad said there was no threat to public safety.



Mar 28, 2023 — There were no injuries when th Monday morning in the Mojave National Prese

ISCONSIN NEWS >

Train derails near Wisconsin



aks diesel and oil t and federally

ylvania

tler County, Pennsylvania.

fic-freight...

2/3/23 Palestine, Ohio

Déjà vu - With every spate of freight "accidents," there is a call for safety regulations from the government agencies and a PR safety commitment announcement from the Railroads.



Freight Railroads Announce Key Safety Measures in Drive to Zero Accidents

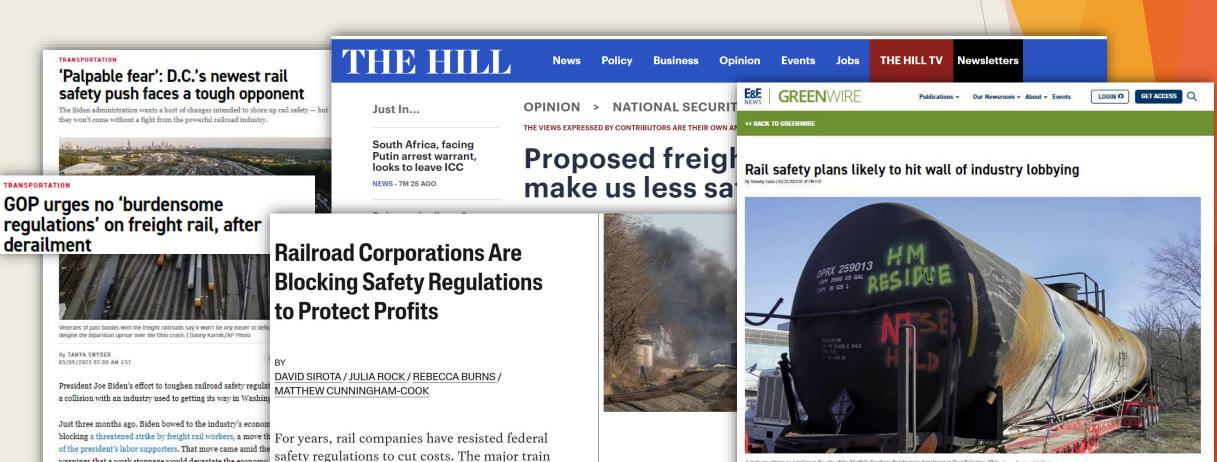
And every time, as it leaves the headlines, the lobbyists fight against the regulations and make contributions to politicians. It has already started on this fresh batch.

warnings that a work stoppage would devastate the econor

vital supplies such as grain, fuel and drinking water chemical derailment in Ohio last weekend, which

resulted in the emergency evacuation of

residents nearby, is the fruit of such profit



A tank car sitting on a trailer at the site of the Norfolk Southern freight train detailment in Rast Palestine, Ohio, George Physican AP Physican (AP Physican AP Physican (AP Physican AP Physican AP Physican (AP Physican AP Physican AP Physican AP Physican AP Physican AP Physican (AP Physican AP Physican (AP Physican AP Phys

Smoke rises from a derailed cargo train in East Palestine,

Ohio, on February 4, 2023. (Dustin Franz / AFP via Getty

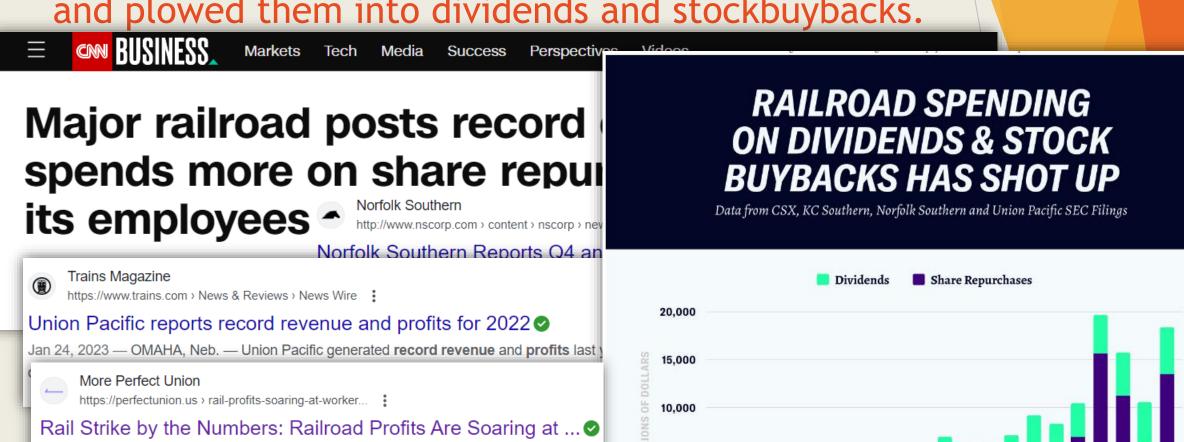
Freight companies release (self-righteous and tone-deaf?) statements that safety measures are too costly with no "business return."

Amid the lobbying blitz against stronger transportation safety regulations, Norfolk Southern paid executives millions and spent billions on stock buybacks — all while the company shed thousands of employees despite warnings that understaffing is

transportation."

intensifying safety risks. Norfolk Sc "AAR strongly opposes any requirement to use ECP brakes," the shareholder initiative that could ha association said in one of multiple comment letters on the rule. to "assess, review, and mitigate risl "ECP brakes would be extremely costly without providing an offsetting benefit . . . [the Federal Railroad Administration] assumed that business benefits would more than compensate for the costs of ECP brakes, but [the] industry to this day has not identified business benefits that would justify transitioning to ECP brakes."

Rail Freight Companies posted record profits in 2022 and plowed them into dividends and stockbuybacks.



5.000

Railroads' Strategy Thrilled Wall Street, but Not Customers ... ♥

Sep 13, 2022 — In 2001, leading American freight carriers CSX, KC Southern, Norfolk

Southern and Union Pacifi

The New York Times

https://www.nytimes.com > business > freight-rail

Sep 19, 2022 — Today, those seven carriers employ 88 percent of all freight rail workers and earn **94 percent of industry revenues**, according to Mr. Jefferies's ...

Rail Freight has an eye on passenger infrastructure funds.

Rail barons return: How two freight railroads are trying to derail the infrastructure law's historic investment in passenger rail

17 Feb 2022 | Posted by Steve Davis | 2 Comments | alabama, amtrak, freight rail, gulf coast, louisiana, Mississippi, passenger rail, STB

BUSINESS

With A Friend In Biden, Amtrak Has Big Dreams. But Freight Lines Have Other Ideas

June 9, 2021 · 4:38 PM ET



FreightWaves

https://www.freightwaves.com > news > csx-ns-and-a...

CSX, NS and Amtrak spar over Gulf Coast service

Jul 14, 2021 — **Amtrak** wants the Surface **Transportation** Board to expedite its review of **Amtrak's** plans to reestablish passenger rail service in the U.S. ...

■ MERIDIAN STAR

How the Guit Coast train beet between Amtrak and CSX is intensitying

SHARE THIS

How the Gulf Coast train beef between Amtrak and CSX is intensifying

Mobile residents are eager to see pmillion in city funds on restoring to

by Sara DiNatale Mississippi Today Apr 13, 2022

Specific dangers that we're not allowed to know:

Municipalities and the Public are not allowed to know what/when/where these items are shipped through our neighborhoods every day:

- Explosive materials (see Lac Magantic crude oil explosion that killed 47, or this year's Minnesota Ethanol explosion)
- Toxic chemicals (see Palestine, Ohio spill)
- Toxic gasses (including those used in WW1 warfare and WW2 gas chambers) a release could kill thousands in minutes
- Radioactive waste/products
- Even otherwise 'harmless' freight causes a problem when spilled

Freight Concerns summary:

- It is proven dangerous, and their actions imply the companies don't care.
- The Robber Baron ethos lives on with greed, corruption, and disregard for the public. They should NOT be in charge of studies and safety decisions.
- We are not allowed to know when/where/what hazardous items are being shipped right though our neighborhoods.
- Huge industrialized swaths for double-stack freight will impact quality of life with noise, vibration and pollution.
- It will affect the whole city and likely hamper positive development in the Baltimore's future. A coveted location near freight trains? Unlikely.
- Progressive Cities are working to get hazardous freight and its related dangers OUT of populous areas, not to bring more in. There's a national call for more of this.

There are decades of repeated analyses that call for rerouting hazardous freight to AVOID populous areas! In Baltimore, alternate industrial routes have been studied and suggested for years.

<u>1984 - TRID Study does the math on reducing fatalities: Recommends rerouting.</u>

2007 - Freight realignment study (only worried about feds in DC)

<u>2008 - Congress urges that freight be re-routed around population centers, but gives study authority to RR interests</u>

<u>2014 - After Lac Megantic disaster killed 47 people, Safety Officials urge hazardous rail freight be re-routed around populous areas</u>

<u>2015</u> - Citizens Advisory Committee on Accessible Transportation urges rerouting freight out of residential neighborhoods

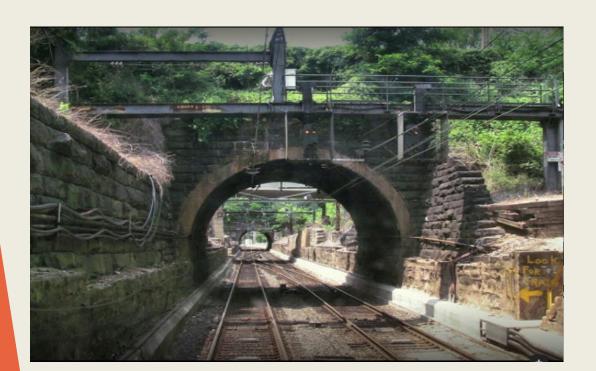
These studies are then turned over to the freight industry to evaluate - giving the fox the keys to the henhouse - who effectively kibosh the plans.

The View from Ground Zero:

- This "Once in a lifetime Infrastructure Investment" is the chance to act on those studies and do it RIGHT by rerouting freight around Baltimore in industrial zones!
- Why not help solve a big concern rather than squander \$6billion on bringing MORE dangerous freight through the city? How does that make sense?

AMTRAK

- -Amtrak's bypass bottleneck problem needs a solution.
- -The current approved solution is 3B.





Double Stacked Freight Clearance

- -Freight dictated the specs with a demand for double-stacks during NA/EIS/ROD phases -Now the Howard Street Tunnel is being adapted for that, changing their needs list
 - MARYLAND DEPARTMENT OF TRANSPORTATION
 OF TRANSPORTATION
 OF TRANSPORTATION

 MDOT Newsroom
 Home

 HOGAN ADMINISTRATION
 SUBMITS FASTLANE
 APPLICATION TO DOUBLE-STACK
 HOWARD STREET TUNNEL

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 MARYLAND DEPARTMENT OF TRANSPORTMENT OF TRANSPORTATION

 FOR TRANSPORTATION

 HOGAN ADMINISTRATION
 SUBMITS FASTLANE
 APPLICATION TO DOUBLE-STACK
 HOWARD STREET TUNNEL

 Project Will Break the Rail Bottleneck
 from the Helen Delich Bentley Port of
 Baltimore to East Coast

AMTRAK SPEED

More Deceptive implications

- The speed rhetoric makes great time-saving claims and *implies* that this is due to the new tunnels. When pushed to the wall, they admit that their new speed estimates are based on numerous factors, including express routes without local stops.
- The speed information in the PR does not match that in their legal documents.



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Need help? Ask Julie



DESTINATIONS

EXPERIENCE

DEALS

SCHEDULES

GUEST REWARDS



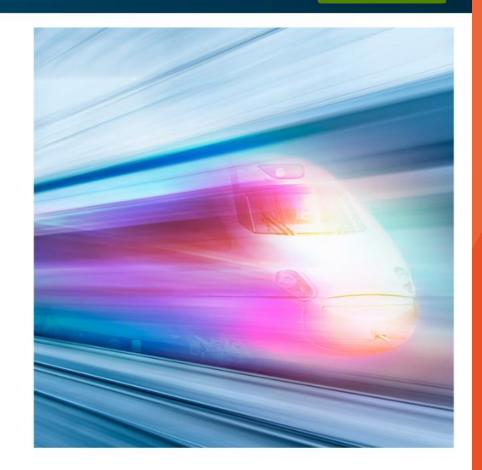
BOOK NOW

Key Benefits

Eliminating the Largest NEC Bottleneck Between Washington and New Jersey

The program will transform this segment of the Northeast Corridor, significantly improving speed, capacity, and reliability for MARC and Amtrak trains at the largest rail bottleneck between Washington and New Jersey. Instead of 30 mph, trains will be capable of traveling over 100 mph.

When the Program is complete, these improvements will eliminate nearly seven hours of train delay for the average weekday.



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How Long Does it Take for a Train to Stop?

According to the Minnesota Safety Council, (Minnesota Operation Lifesaver Inc.) "The average freight train is about 1 to 1½ miles in length (90 to 120 rail cars). When it's moving at 55 miles an hour, it can take a mile or more to stop after the locomotive engineer fully applies the emergency brake. An 8-car passenger train moving at 80 miles an hour needs about a mile to stop."

SPEED Time savings: 152 seconds.

Table III-6: Comparison of Key Criteria for Alternatives 3A, 3B (Preferred) and 3C

	Alternative 3A	Preferred Alternative (Alternative 3B)	Alternative 3C
Travel Time Savings over No-Build (Min:Sec	Acela: 2:00	Acela: 2:31	Acela: 2:30
average of northbound and southbound)	Regional: 1:55	Regional: 2:32	Regional: 2:23
	MARC: 1:38	MARC: 1:49	MARC: 1:44
Allows for high-level platforms for West	No	Yes	Yes
Baltimore MARC Station between Franklin			
and Mulberry Streets			
Capital Cost (YOE \$)*	\$3.8 billion	\$4.0 billion	\$4.2 billion
Ward Baking Company (historic property)	Preserved	Preserved	Demolished
Fire Department Engine Company No. 36	Preserved	Preserved	Demolished
(historic property)			
P. Flanigan & Sons, Inc. business and jobs	Substantial	Minimal Impact	Substantial
	Impact		Impact
Surface right-of-way required	9.4 acres	13.2 acres	15.1 acres

^{*} Preliminary estimate for comparative purposes. Does not include preferred Intermediate Ventilation Facility site or mitigation. For more detailed cost estimate of the Preferred Alternative, see **Chapter IV**.

Selected Route doesn't meet B&P Tunnel Environmental Criteria

Avoid or minimize routes with

- 1. Residential Land Use
- 2. Minority and Low-income Communities
- 3. Historic Districts and Structures

(2014 B&P Tunnel Preliminary Alternatives Screening Report)

Other Options

- -were presented but not really considered, including two full system plans from the CAC and Ameristar.
- the EIS didn't explore "alternative 2" to repurpose the existing route.

Alternative #2 "additional information needed"



Final Environmental Impact Statement and Section 4(f) Evaluation

		Alternative	Basis for Elimination or Retention	
Retained for Further		Alternative 1: No-Build	 Serves as baseline for comparison to other alternatives. 	
	Study	Alternative 2: Restore/Rehabilitate Existing B&P Tunnel	 Additional information needed to determine the viability of alternative; in particular, the most appropriate method of tunnel restoration or rehabilitation, and whether construction could reasonably accommodate train operations. 	
		Alternative 3: Great Circle Passenger Tunnel	 Does not contain a fatal flaw and meets engineering, operational and environmental criteria. 	
		Alternative 11: Robert Street South	 Does not contain a fatal flaw and meets engineering, operational and environmental criteria. 	

The view from Ground Zero:

- -HST changes freight factor. Re-evaluate and remove it from needs/ROD
- look at Alternative #2
- look for new, non-freight Amtrak solutions
- meet prescribed Environmental Criteria
- Admit Speed is not a prime factor
- ROI: 152 seconds for \$6 billion? With other transit projects pushed aside?

CONSTRUCTION

- Even if there's no freight, the decade of massive construction brings its own dangers.
- The safety, livability, and stability of our communities and homes is at risk.
- Damage or collapse of these fragile buildings and the safety of lives in and around them- is a huge concern.
- The financial risk to homeowners' biggest investments is real.
- Building new infrastructure at the cost of damaging existing infrastructure - is that a good plan?



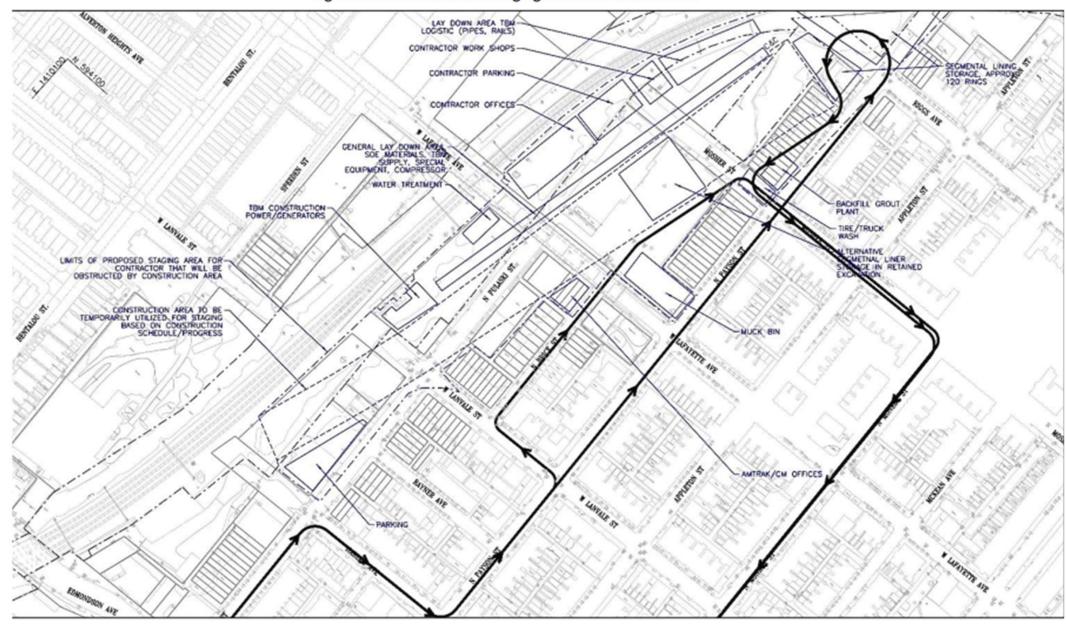




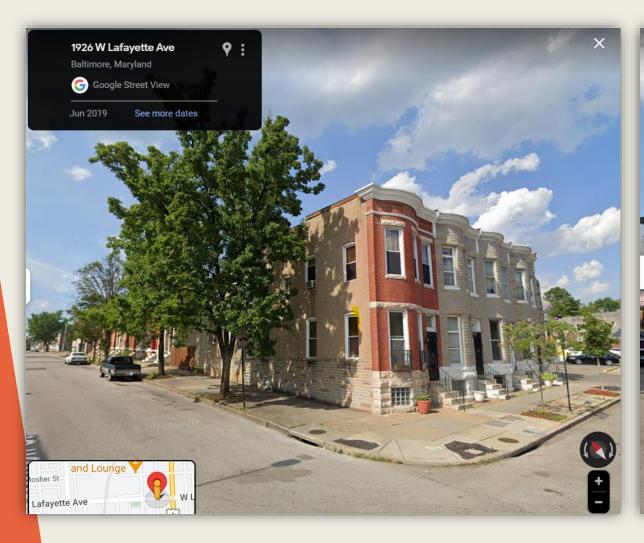


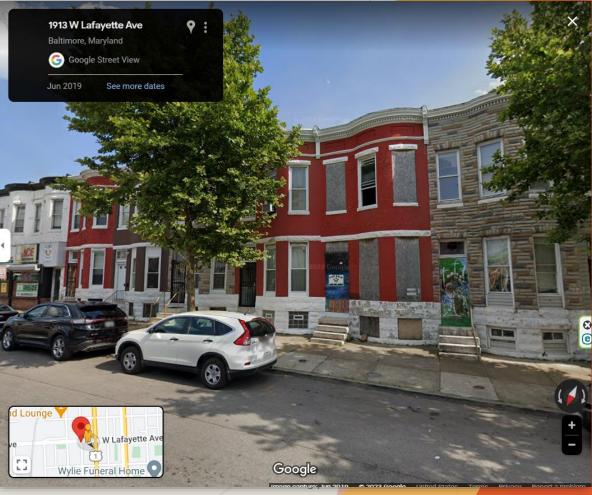
Truck Removes Muck Drilled from Tunnels

Figure IV-32: Construction Staging Area Near South Portal



Lafayette and Appleton Truck Route

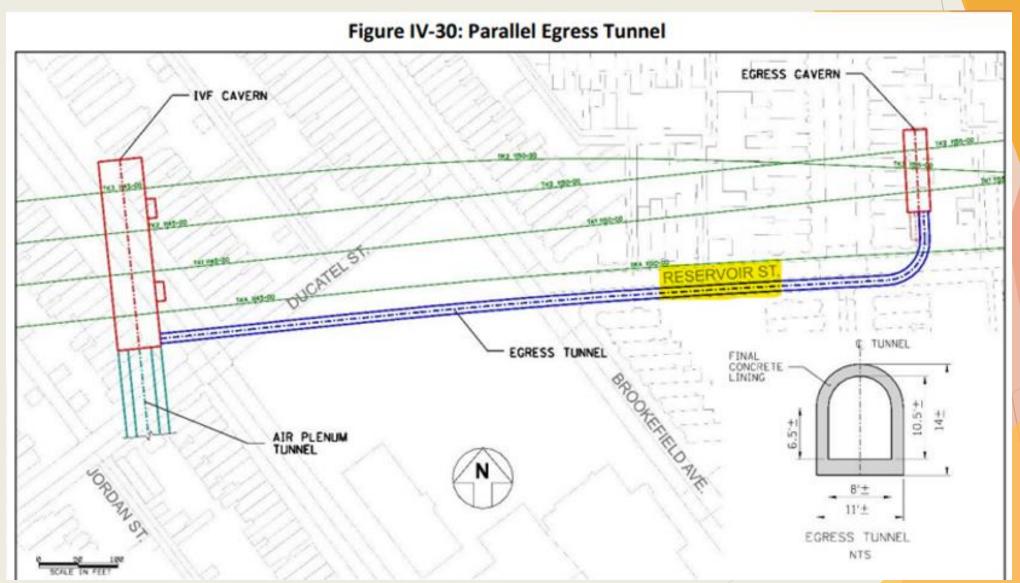




Muck bin location - size of nine houses, right across the street from the playground.



Egress Tunnel requires explosives excavation



Reservoir Street

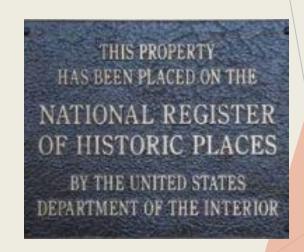


4 Large Historic Districts Impacted

B&P Tunnel Section 106 Study:

"Architectural historic properties that are listed in or eligible for listing in the National Register of Historic Places (NRHP)"

- Reservoir Hill Historic District
- Midtown Edmondson Historic District
- ► Edmondson Avenue Historic District Historic District
- Greater Rosemont Historic District (NRHP applied for)

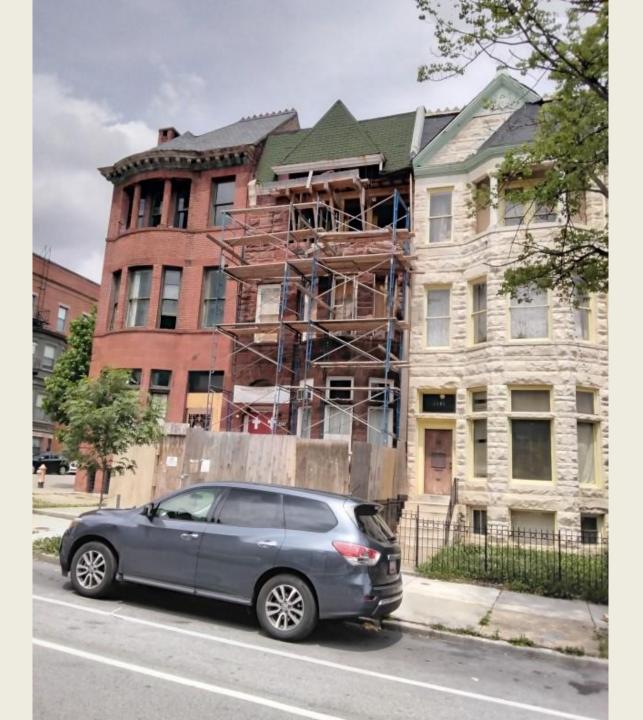


Baltimore's Charming Old Rows

- Weak or no foundation
- Unframed brick with soft mortar
- Easily damaged by vibration
- Passing buses cause cracks and fallen plaster

Modern homes are constructed to withstand several inches of movement.

19th century brick row houses were not.

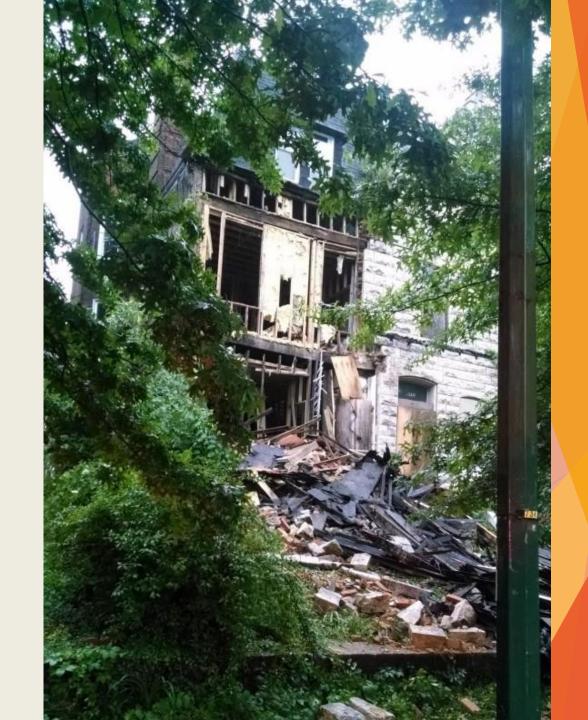


Damage from pavement excavating machine

Corner of Eutaw and Ducatel

Damage on Mt. Royal Terrace due to severe storm and longterm vibration from proximity to the JFX

House is directly above proposed B&P Tunnel east portal



Historic Row Houses Cannot Withstand

- ► Massive Tunnel Boring Machines (TBMs)
- Underground explosives
- ▶ 10 Years of heavy construction & trucks
- ►Up to 388 trains PER DAY

Significant damage or collapse could result.





Tunnel Boring Machine (TBM)

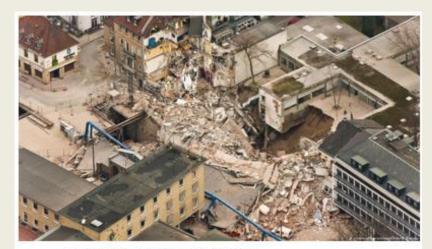
Not a great Track Record for TBMs

- Much damage to houses, buildings, and streets from TBM boring
- Process involves water and chemicals
 - Chemicals may include breathing irritants and pollutants (soil, groundwater)
- Can cause:
 - Sinkholes
 - Collapses
 - Settling
 - Cracking of buildings



TBM collapses have been responsible for loss of life.

TBM damage - England, Germany, India.



Cologne Archive Collapse



Two dead in collapse in Cologne



Building Damage at Heathrow



London Underground Tunneling Collapse



TBM hits aquafer, Kalkuta



B&P Tunnel Project Vibration Technical Report - 1

"Vibration levels during construction are difficult to predict. ... Heavy machinery ... is constantly moving in unpredictable patterns. ... These excavation activities typically include tunnel boring machines (TBM), earth moving equipment, and heavy duty impact equipment such as pile drivers that may be utilized by the selected contractor."



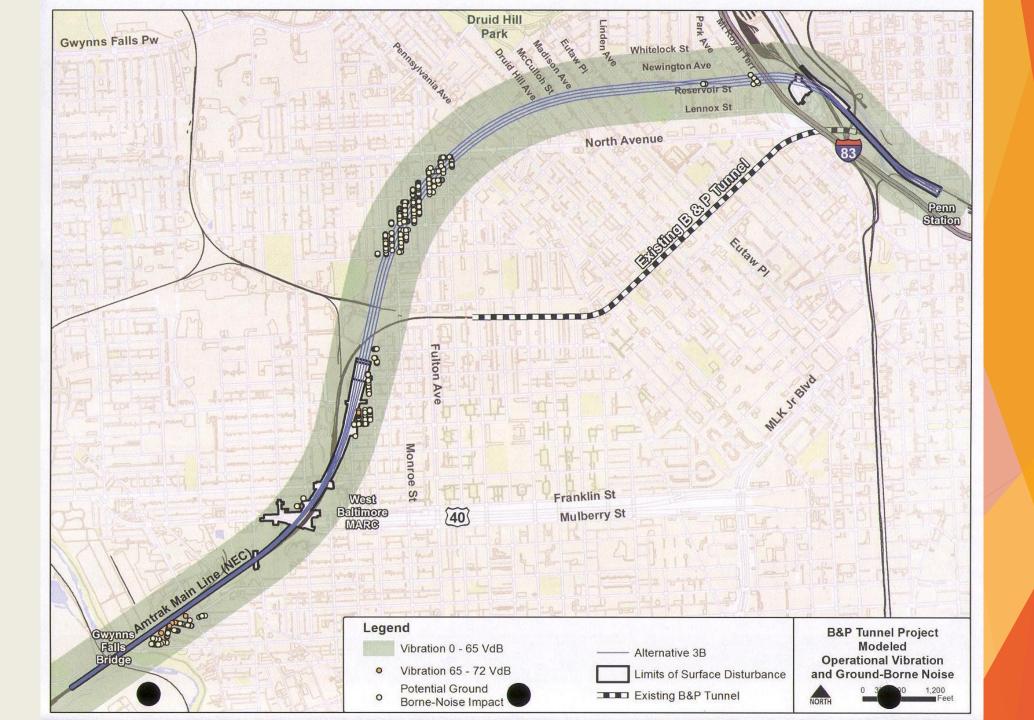
B&P Tunnel Project Vibration Technical Report - 2

"... due to absence of credible source data for vibration from TBM particularly applicable to the B&P Tunnel Corridor, the determination of impacts at nearby sensitive receptors is not possible without significant uncertainty. Although vibration levels from TBMs are available in literature, the wide range of variability in source levels even for similar geotechnical conditions prohibit determining any credible levels at closest residences."

Vibration Dangers to Old buildings

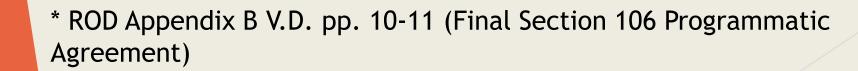


► A full vibration study was NOT done. Core samples and charts were used. Old homes do not have the movement allowance of new buildings. The Vibration expert told us that we really needed to get a full vibration study. The illustration shows the vibration zone for construction and train operations.



Little Assurance in Case of Damage

- Draft Historic Properties Construction Protection Plan will not be delivered until 90% Project Plan is complete*
- No assurance in B&P ROD or FEIS for repairing home structural damage that occurs during construction or tunnel operation
- Some insurance policies do not cover damage from underground sources
- Most policies would not cover full rebuild costs
- Structural damage may not be readily apparent
- Proving damage caused by tunnels could be difficult and expensive for property owner

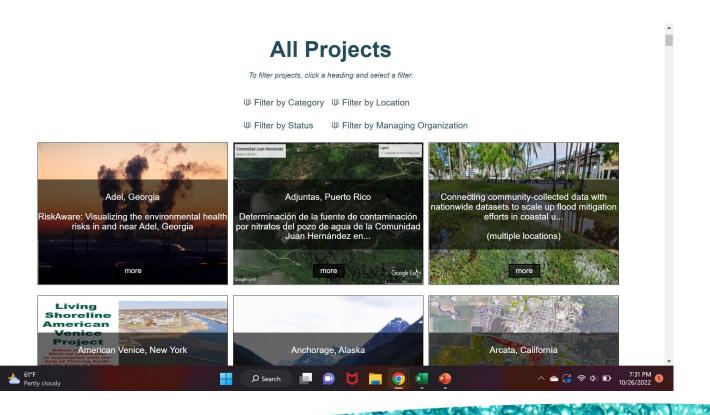






American Geophysical Union (AGU)

International non-governmental organization helping communities worldwide



More than 500 projects worldwide

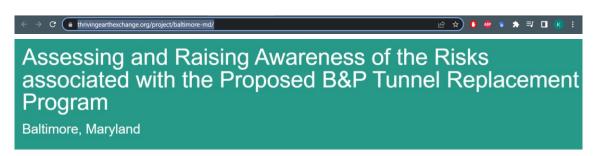


American Geophysical Union (AGU)

Contents

International non-governmental organization helping communities worldwide

Project Description







EXPERTS NEEDED

- Geotechnical Structural Engineer
 - Review existing official EIA and geotechnical reports
- 2. Historic Architectural Engineer
 - Assess the structures of affected buildings in the community

https://thrivingearthexchange.org/project/baltimore-md/

The View From Ground Zero:

- People LIVE here! This endangers our lives, homes, and future.
- -Architectural/Structural and Geotechnical Engineering Study is Needed for ANY route - this one, and the new ones we want them to seek.

We, as Residents, deserve a full, independent study of:

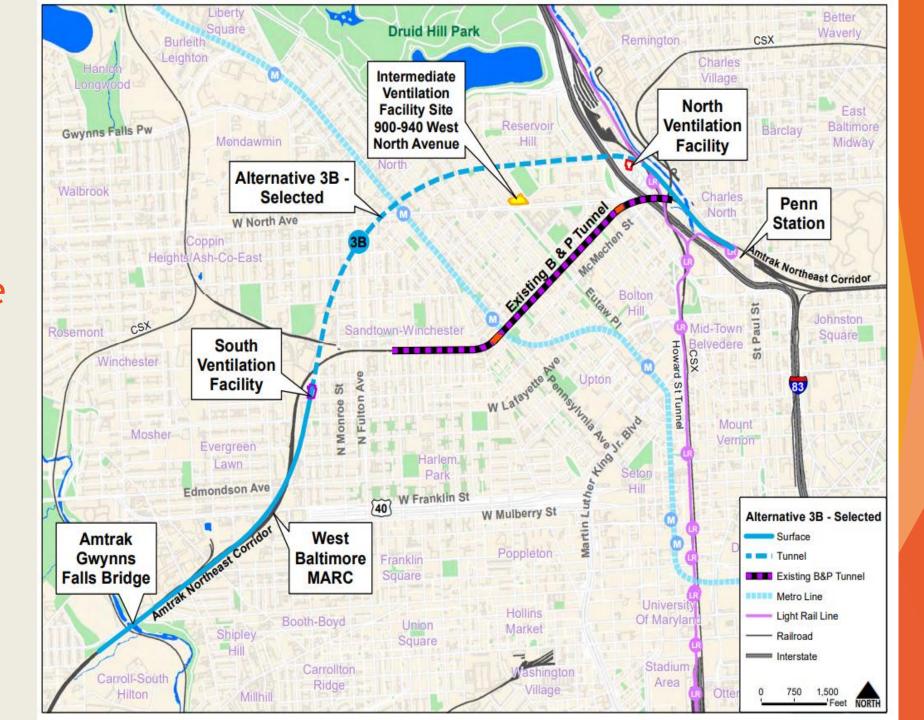
- ► This specific project
- ► These specific houses in their geographic setting
- Specific ground conditions under our neighborhoods
- ▶ 22 houses, 13 businesses, and 4 churches will be demolished
- > 5080 population in the vibration impact zone will be endangered

Does this project justify the risk to our homes (and lives)?

ENVIRONMENTAL JUSTICE

Current proposed solution approved in the Record of Decision.

Selected Route 3B



As we said, not everybody wins in this project. There are people who will lose BIG. Some irretrievably. And it's the usual people who get run over; the very people for whom Environmental Justice Laws were created. A large percentage of the residents in the affected areas are underprivileged low-income People of Color.

Ironically, "Equity and sustainability" are part of the mission of the infrastructure bill. Many of us are fans of these elected officials who see the importance of infrastructure.

The Environmental Law Clinic at UMD helped us craft an advocacy letter to them to help US to be SEEN and heard.

The New York Times

Racial Equity in Infrastructure, a U.S. Goal, Is Left to States

The decision about how to spend the money falls largely to state governments, raising questions about whether the package can live up to its ambition.

The administration has said it aims to repair the damage from the United States' history of racial disparities in how the government builds, repairs and locates physical infrastructure. In the <u>1950s</u> and <u>1960s</u>, highway projects often targeted Black neighborhoods,

destroying cultural environmental har through Black com economic gain.



brookings.edu/blog/the-avenue/2021/12/1//how-equity-isnt-built-into-the-intrastructure-bill-and-ways-to-fix-it/

Carlos Martín, Andre M. Perry, and Anthony Barr - Friday, December 17, 2021



Georgetown University

https://politics.georgetown.edu > 2022/12/08 > pete-b...

Pete Buttigieg Speaks on Infrastructure, Climate, American ...

Dec 8, 2022 — Secretary of Transportation **Pete Buttigleg** discussed new transportation and infrastructure policy, climate change and **environmental justice**, ...





Department of Transportation (.gov) https://www.transportation.gov > fact-shee

Fact Sheet: Equity in the Bipartisan Infrastructure Law

Jul 5, 2022 — The law provides \$13 million in FY22 in funding for transit-oriented-development planning projects linking land use and transportation access ...

The View from Ground Zero:

We are concerned about Environmental Justice

- tenants, who may be in buildings already weakened by abuse or neglect.
- -homeowners, whose blood, sweat, and entire savings are in their homes, homes they plan to leave as a legacy to children as a leg up on generational wealth.
- -Students trying to learn while a pile driver pounds outside day after day for years, perhaps sacrificing their entire education
- -residents along the existing tunnel will it be abandoned? Or will it be improved? How will it affect them?
- -children and others with the safety of construction cities and dumptrucks.
- -the effects of noise, pollution, and stress on all community members.
- -residents who will have difficulty safely getting around detours to bus stops, getting to work, or parking near home.

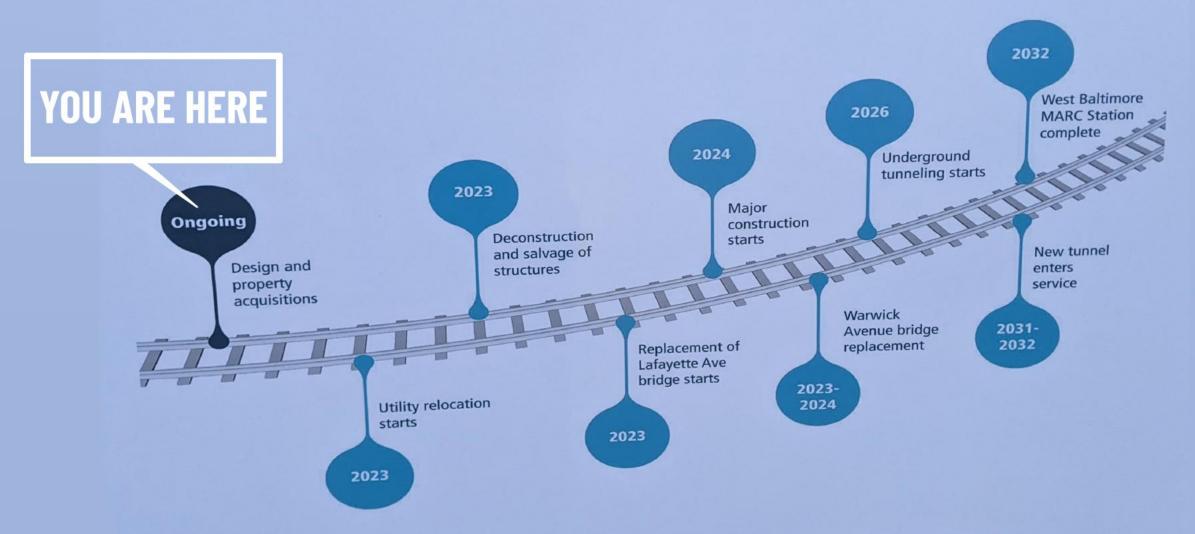
We are concerned and afraid, and angry that our elected officials aren't. It's simply not right or just to place such a burden on West Baltimore residents so that others can glide blissfully under them.

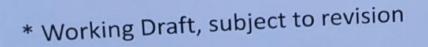
There ARE options, and they should be checked.

It's not too late

NO MATTER HOW FAR YOU HAVE GONE ON A WRONG ROAD. **URN BACK**

Preliminary Schedule*







The View from Ground Zero

We want

- -To be heard.
- -To be valued and our concerns respected.
- -For the Tunnel folks to go back to the drawing board to check other options that prioritize citizens over corporate pull.
- An SEIS, or new EIS with full studies including vibration and architectural engineering/stability.
- -Transparency and public honesty.
- to be at the table with deciders.
- serious reconsideration of what part \$6 billion could do for other transit projects!

Conclusion

"Whom does this help?"
Those scoring a piece of the \$\$ pie, and
those who can ignore West Baltimore 2 minutes faster?
"Whom does it hurt?"
The communities of the area, potentially ALL of
Baltimore, and some say good sense and fiscal
responsibility.

"Why do some think that balance okay? We sure don't." Back to the drawing board.

The view from Ground Zero:

By Tom Baker, Wombat Studios.



Thank you.

Questions?