

Freight Railroad Realignment Feasibility Study – Draft Findings





Freight Railroad Realignment Feasibility Study

<u>Purpose</u>

Study the feasibility of relocating the freight line as a long term solution to rail related security issues.

Funding:

Funded through DHS UASI Grant Program (\$1.0 million)

Management:

- DDOT is funding mechanism
- NCPC is managing overall project and coordination

Products:

- Identify potential alternative corridors for the new alignment
- Conduct cost & benefits analysis

Coordination:

Coordinate with regional stakeholders and federal agencies

Consultant:

Parsons Brinckerhoff is lead with team of subconsultants



Coordination

Interagency Security Task Force

Subset of Commission which deals with Security related planning issues

Working Group

Federal Railroad Administration
Transportation Security Administration
Maryland Department of Transportation
Virginia Department of Rail and Public Transit
Virginia Railway Express

District Of Columbia Office of Planning District Department of Transportation Washington Council of Governments

Owners/Operators Group

Amtrak
CSX Corporation
Norfolk Southern





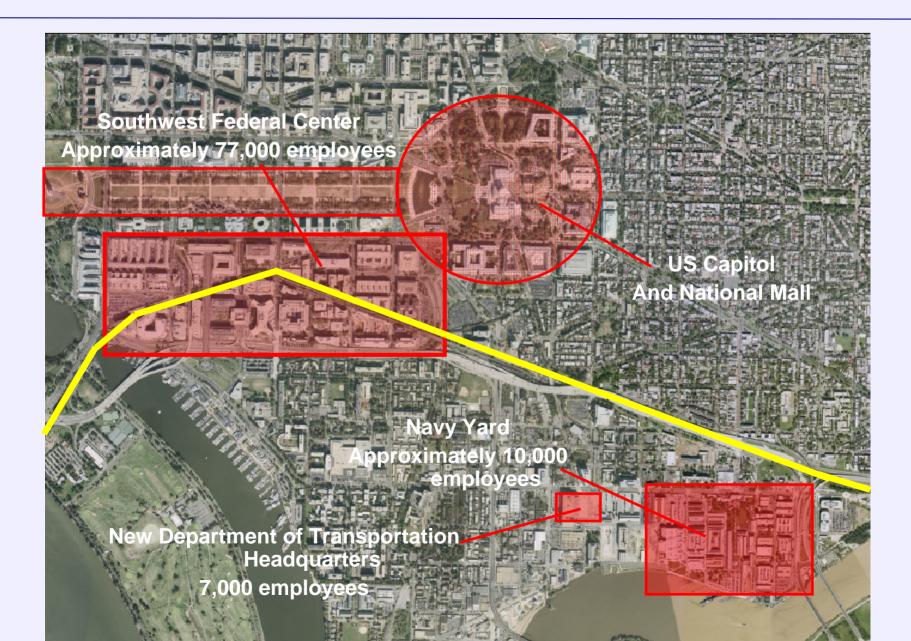
Rail Line Issues

Potential Security Issues

• Hazardous materials travel within close proximity to federal buildings and densely populated residential areas



Security Issue





Rail Line Issues

Transportation Issues

- Sharing of track between freight and passenger services
- Single tracking affects flow of traffic through system
- Clearance limitations and single tracking of Virginia Avenue Tunnel creates regional issues
- Correction of Washington DC issues is critical to East Coast network









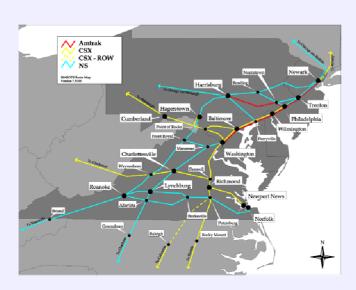
Mid- Atlantic Rail Operations (MAROPS)

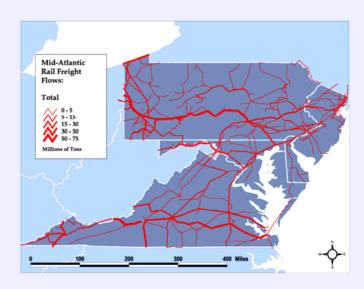
Conducted by the I-95 Coalition

Study of East Coast transportation network and recommendations for improvements

Identified Washington DC as a major choke point and limitation to growth of rail traffic

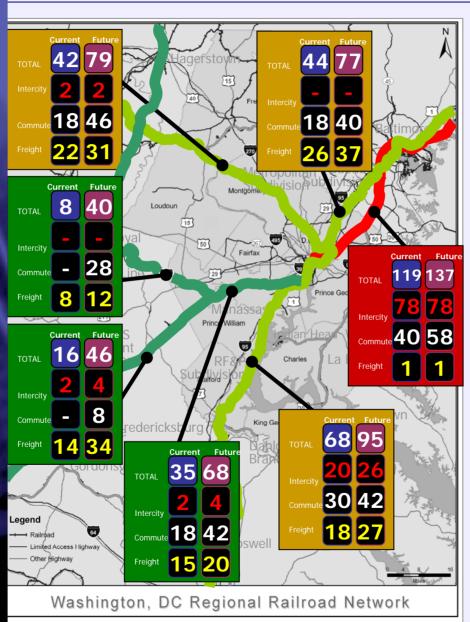
Recommendations are important component of feasibility study







Growth of Washington Regional Rail Traffic



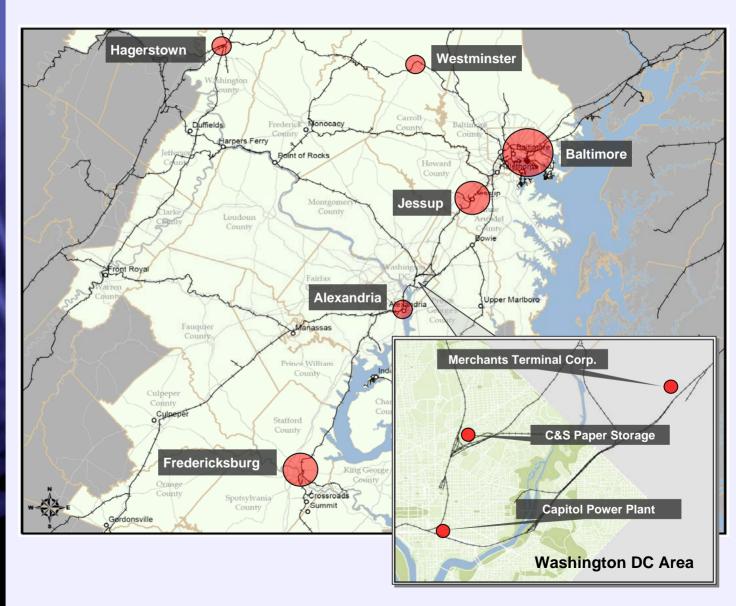
Average trains per day

- CSX
- Norfolk Southern
- Amtrak





Washington Regional Freight Destinations

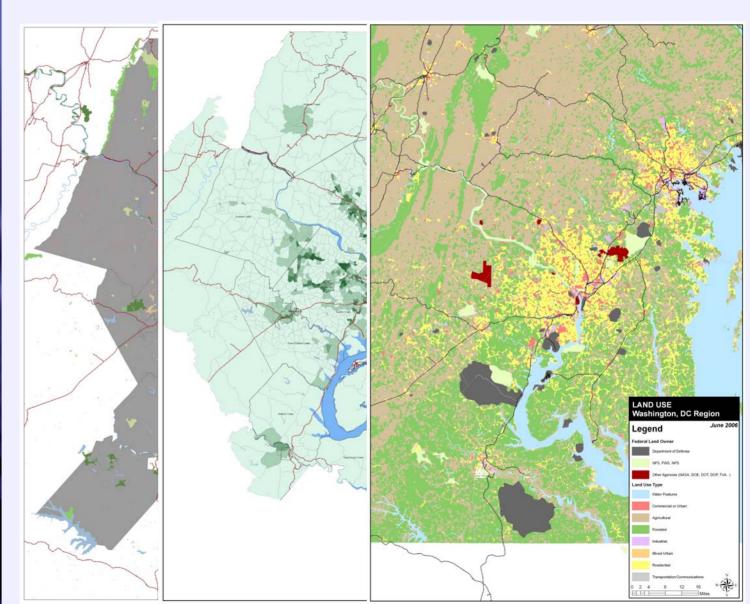




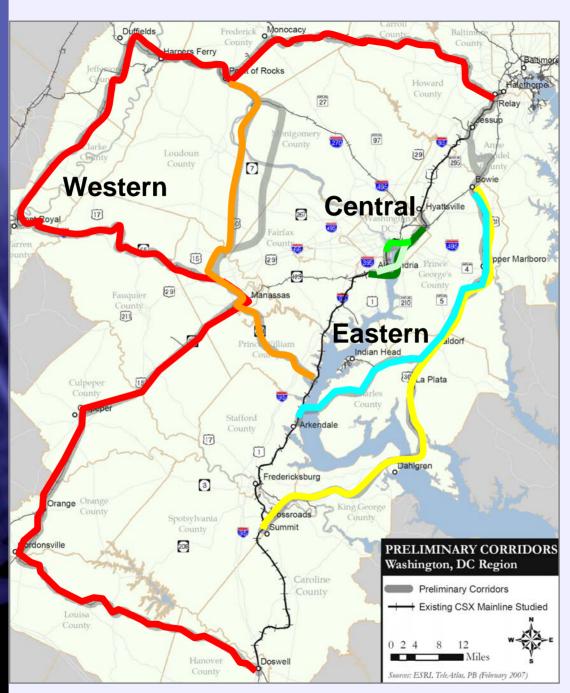


Regional Analysis







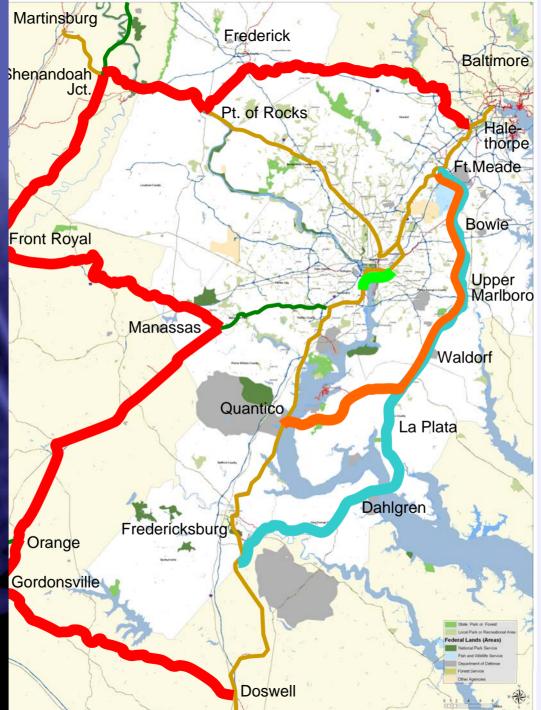


Preliminary Corridors

"First Cut" at range of possibilities







Feasible Alternatives

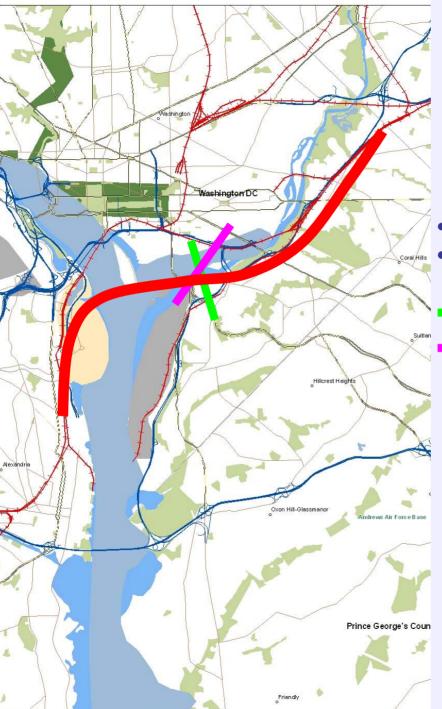
Western Alternative

DC Tunnel

Eastern, Dahlgren

Eastern, Indian Head

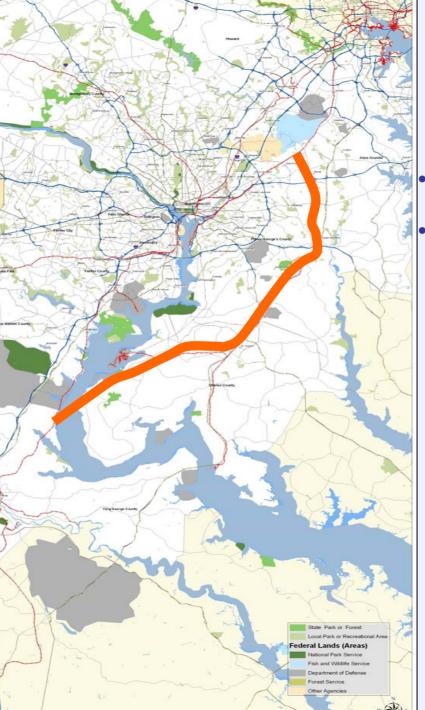




Viable Alternative DC Tunnel Option

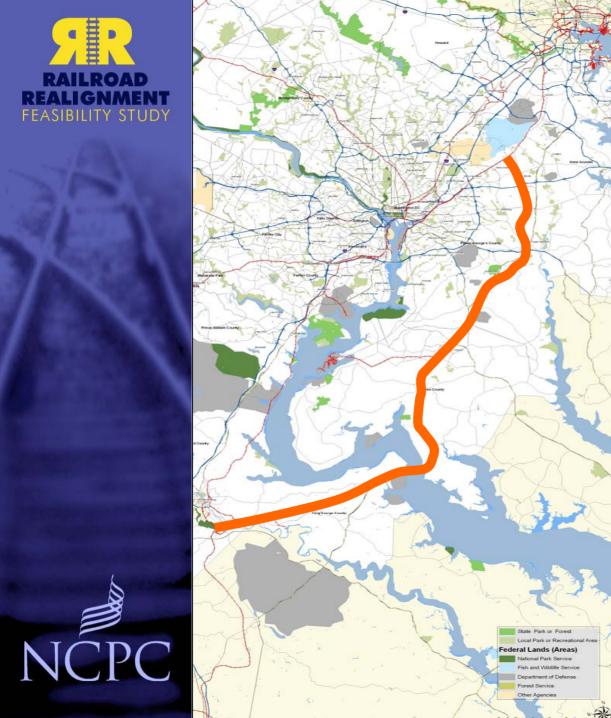
- 8-mile tunnel alignment
- Challenges
 - Metro Green Line
- Planned WASACSO Tunnel





Viable Alternative **Eastern, Indian Head**

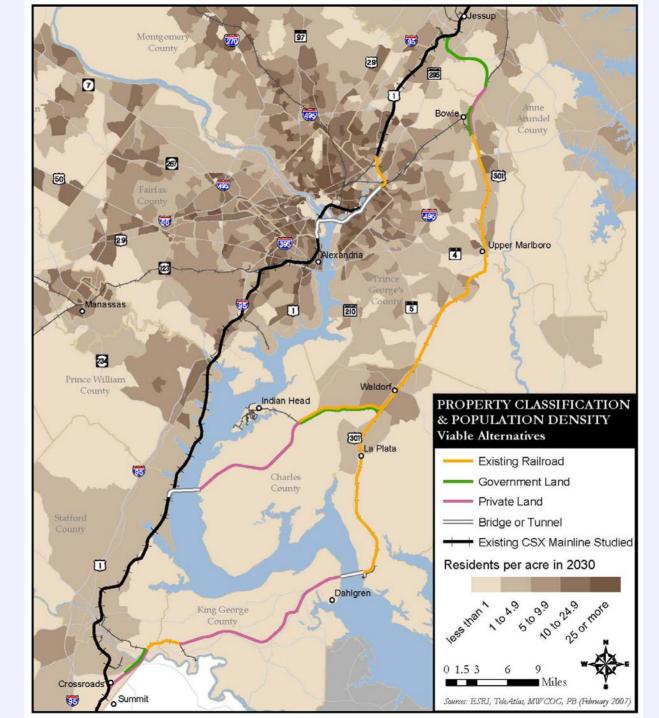
- 69 mile corridor
- Utilizes spur rail line in Indian Head area



Viable Alternative **Eastern, Dahlgren**

- 93 mile corridor
- Utilizes full length of existing right-of-way in Maryland 301 corridor







Security & Safety Benefits

Realigning the Railroad will:

Greatly reduce risk of terrorist attack on hazardous materials in the Monumental Core

Reduce proximity of freight rail to dense residential and employment areas

Improve safety and security by separating freight and passenger services

Provide ability to transfer more freight to rail which is generally a safer mode than trucks









Transportation Benefits

Types of Benefits identified by realignment:

Freight Shipper Benefits:

- Decreased travel time
- Lower shipping costs

Highway System Benefits:

- Transfer of freight from trucks to rail
 - Lower congestion and travel times
 - Reduced highway maintenance
 - Lower environmental impacts

Passenger Rail Benefits:

- Increasing passenger service capacity
- Lowering travel times
- Reduce schedule conflicts

Fully realized when implemented with other East Coast improvements



Real Estate Development Benefits

Overview of Analysis:

Assess new development potential and real estate impacts in the District of Columbia from removal of rail line

Benefits included:

- New development opportunities and increases in property values
- Advances Extending the Legacy and Anacostia Waterfront Initiative goals



Dollar Value of Total Benefits

Transportation Benefits

	DC Tunnel	Eastern, Indian Head	Eastern, Dahlgren
With East Coast Improvements	\$1.9 Billion	\$3 .0 Billion	\$2.9 Billion
Washington Realignment Only	\$178 Million	\$1.3 Billion	\$1.2 Billion

Real Estate Benefits

	DC Tunnel	Eastern, Indian Head	Eastern, Dahlgren	
Real Estate Benefits	\$6.6 Billion	\$6.6 Billion	\$6.6 Billion	

Total Benefits

	DC Tunnel	Eastern, Indian Head	Eastern, Dahlgren
With East Coast Improvements	\$8.5 Billion	\$9.6 Billion	\$9.5 Billion
Washington Realignment Only	\$6.8 Billion	\$7.9 Billion	\$7.8 Billion





Total Benefits by Jurisdiction

DC Benefits

- Increased land values and development opportunity
- Simplified construction of roadway improvements
- Improved access to Anacostia River and park

Virginia Benefits

Expansion and improvement of passenger services (VRE, Amtrak)

Maryland Benefits

- Enhances value of Baltimore rail improvements
- Enhances Port of Baltimore for destinations south
- Improves opportunity for possible expansion of MARC service to destinations south of DC



Estimated Costs of Rail Realignment

	Eastern Dahlgren	Eastern Indian Head	DC Tunnel
Estimated Costs	\$3.5 – 4.7 Billion	\$3.2 -4.3 Billion	\$4.7 – 5.3 Billion





Benefit - Cost Analysis

- Benefit/Cost Ratios calculated based on quantifiable benefits and costs (transportation and real estate)
- Calculated with and without other needed East Coast rail improvements

	With East Coast Improvements	Washington Region Improvements Only
DC Tunnel	1.7	1.4
Eastern Indian Head	2. 4	2.0
Eastern Dahlgren	2.2	1.8



Study Findings

- Removing the freight railroad from the monumental core would greatly reduce the security risks of transporting freight through the region
- There are viable alternative railroad alignments for the freight line which deserve further study
- Realigning the freight rail would provide benefits to the transportation network in the Washington Region and the East Coast
- The total benefits of realignment would be greater than the costs



Next Steps

Beyond this Study:

Develop a funding strategy that considers the complexities of each alternative including:

- Sharing public/private costs appropriately
- Capturing the benefits to offset the costs
- Identify availability of appropriate security and transportation funding

Prepare Environmental Impact Statement and identify preferred alternative including the identification of necessary mitigation for project related impacts