National Capital Region Transportation Planning Board

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Item #6

MEMORANDUM

Date: March 4, 2011

To: TPB Technical Committee

From: Karin Foster

Transportation Planner

Subject: List of Freight Transportation Highlighted Projects

As part of a process where Transportation Planning Board (TPB) subcommittees are identifying priorities in their areas, the Freight Subcommittee presents its list of Freight Transportation Highlighted Projects.

Background

The Transportation Planning Board (TPB) approved the first-ever *National Capital Region Freight Plan 2010* on July 21, 2010. One component of the *Freight Plan* was the development of a National Capital Region Freight Project Database. This Database compiled freight-related rail and highway projects within the TPB boundaries, from existing plans (e.g. *Constrained Long Range Plan, Maryland Statewide Freight Plan, Virginia Statewide Multimodal Freight Program Study*, CSX National Gateway, Norfolk Southern Crescent Corridor) or from Freight Subcommittee member recommendations.

At its January 6, 2011 meeting, the Freight Subcommittee decided upon a new approach to the development of its Freight Projects list. Before, the list included ten independent projects that spanned the modes and the jurisdictions. The Freight Subcommittee agreed to come up with one long-term project and one short-term project for each railroad and jurisdiction.

At its February 3, 2011 meeting, the Freight Subcommittee provided updates and came to a consensus on the majority of projects presented at the January 6, 2011 meeting. The Freight Subcommittee also requested that for long-term rail corridor projects, additional information should be included about specific projects that fall within the National Capital Region. Changes were made to the District of Columbia short-term and long-term projects and the Maryland short-term and long-term projects remained undefined. The Maryland projects were later discussed in conference calls with the Maryland Department of Transportation, Maryland county representatives, the Freight Subcommittee Chairman, and TPB freight staff.

At its March 3, 2011 meeting, the Freight Subcommittee will review a final version of the 10 selected freight projects.

Project Criteria

Beneficial to Freight Movement in the National Capital Region-Projects that relieve freight bottlenecks or are near major freight generators such as airports, warehouse areas; projects on facilities with significant freight traffic. Bottleneck data, average annual daily truck data, and percent truck data in the region were shared in Freight Subcommittee.

Included in State or Jurisdictional Plans or was Identified by Freight Subcommittee Member-Projects listed in the Constrained Long Range Plan, Maryland Statewide Freight Plan, Virginia Statewide Multimodal Freight Program or suggested by Freight Subcommittee members were considered and filtered through Freight Subcommittee member discussions to come up with the final Freight Transportation Highlighted Projects list.

Mode Representation-The Freight Subcommittee selected projects that would represent both the rail and highway modes. Two rail projects were selected for each Class One railroad, CSX and Norfolk Southern. The Freight Subcommittee received feedback from the railroads, state departments of transportation, counties, and Freight Subcommittee members to develop a list of projects representative of the modes.

Regional Representation-The list identifies six highway freight projects, two each in the District of Columbia, Maryland, and Virginia. The Freight Subcommittee received feedback from the state departments of transportation, counties, and Freight Subcommittee members to develop a list of projects representative of the region.

Time Span Representation-The Freight Subcommittee believed it was important to identify a short-term project as well as a long-term corridor project or program for each railroad and each jurisdiction.

Conclusion

The Freight Subcommittee views the 10 Freight Transportation Highlighted Projects as a short list of priority investments that would facilitate goods movement in the National Capital Region. Some of these projects are already committed in the *Constrained Long Range Plan*, however, acceleration of project initiation could be considered. In trying to reach the adopted goals of the *TPB Vision* and the *Freight Plan*, the Freight Subcommittee supports the funding of rail and highway projects over and above this list.

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	FREIGHT TRANSPORTATION PROJECTS-SUMMARY TABLE						
#	Railroad/Jurisdiction	Long-Term	Short-Term				
	Rail						
1	CSX	CSX National Gateway Corridor	CSX Virginia Avenue Tunnel				
2	Norfolk Southern	NS Crescent Corridor	NS 5.8 Mile B-Line Expansion				
	Highway						
3	DC	Weigh Station within DC Boundaries	Uniform Commercial Curbside				
3			Loading Zone Program				
MD F		Relieve congestion along I-95/I-495	I-70 Phase 4				
4		from Woodrow Wilson Bridge to					
		Howard County Boundary					
	VA	Relieve congestion along I-95 from	I/66 and I/495 Access				
5		Prince William County Southern	Improvements				
		Boundary to MD Boundary					

^{*}Note: Please read Project Description sheets on following pages for more project detail.

CSX Long-Term: NATIONAL GATEWAY

Objective

• Coordinated program of multistate improvements to CSX rail lines to improve double-stack rail connections between the Mid-Atlantic and Midwestern markets

Freight Benefit

- 61 clearance projects in 6 states and the District of Columbia (13 in National Capital Region)
- Six new or enhanced intermodal terminals (1 near Baltimore)
- Volume and speed travel efficiencies

Total Project Cost

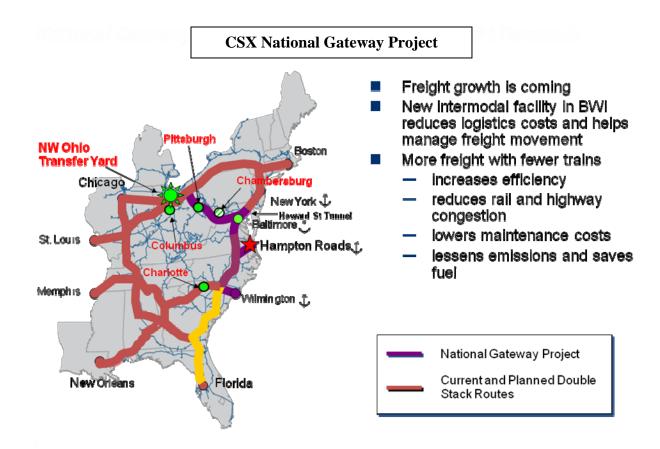
• \$774,000,000

Project Source

• CSX National Gateway

Funding Status

 Project Underway; Current Funding - CSX \$413M, Federal \$98M TIGER Funds (38 clearance projects total in OH, PA, WV), MD \$75M, OH \$30M, PA \$35M, VA \$31M, NC \$100K



CSX: NATIONAL GATEWAY Projects in the National Capital Region

Background: 13 CSX National Gateway projects fall within the National Capital Region (shown below).

		CSX National G	Sateway Projects in the	Washington Region	on
#	City, County	Project Name	Description	Cost	Historic Designation
1	District of Columbia	Virginia Ave. Tunnel	Raise/Replace Tunnel Roof, Double Track Double Stack	\$140,000,000	No
2	District of Columbia	New Jersey Ave.	Lower Track	\$5,006,000	No
3	District of Columbia	10th St.	Lower Track	*	No
4	District of Columbia	I-395 Ramp	Lower Track	*	No
5	District of Columbia	12th St. SW	Lower Track	\$6,387,000*	No
6	District of Columbia	Potomac River Swing Bridge	Bridge Modification	\$415,000	No
7	Catoctin, Frederick	Catoctin Tunnel	Total Arch Liner Removal	\$2,757,000	No
8	Point of Rocks, Frederick	Point of Rocks Tunnel	Total Arch Liner Removal	\$4,522,000	No
9	Germantown, Montgomery	Germantown Rd. North	Replace Bridge	\$1,433,500	No
10	Washington Grove, Montgomery	Deer Park Drive	Replace Bridge	\$3,749,200	Within Historic District, not on Register
11	Hyattsville, Prince George's	Balt. Washington Parkway Rt. 295	Lower Track	*	No
12	Hyattsville, Prince George's	Kenilworth Ave.	Lower Track	\$254,000*	No
13	Woodbridge, Prince William	Railroad Ave.	Replace Bridge	\$2,757,000	No
				TOTAL: \$160,639,700	

^{*} The cost for #5 includes the cost for #3 and #4. The cost for #12 includes the cost for #11.

Source: CSX September 2009

CSX Short-Term: Virginia Avenue Tunnel (Washington DC)

Objective

- Update antiquated 100+ year old rail infrastructure
- Double-stack and double track train travel through District of Columbia

Freight Benefit

- Minimize freight train delays from the Southeastern U.S. to lines running to the Midwest
- Minimize passenger train delays (at present, freight trains often queue for long periods of time on either end of the tunnel to wait their turn to pass and this sometimes impacts passenger train travel in Virginia and Maryland)
- Volume and speed travel efficiencies

Total Project Cost

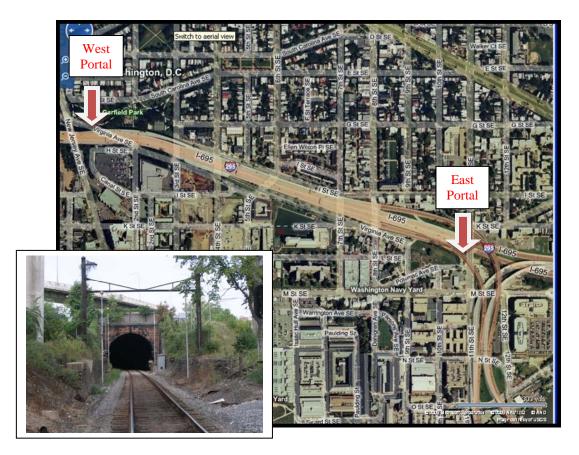
• \$160,000,000

Project Source

• CSX National Gateway

Funding Status

• Looking to begin NEPA process, Current Funding - CSX \$21M, VA \$24M



NORFOLK SOUTHERN Long-Term: CRESCENT CORRIDOR

Objective

• Rail infrastructure improvements to link a 2,500 mile network between New Jersey and New Orleans (that parallel I-81 and I-95 in this region)

Freight Benefit

- 300 miles of passing track and double track
- 11 new or expanded intermodal terminals
- Diversion of truck traffic to rail from numerous interstates, including I-81, I-95
- Volume and speed travel efficiencies

Total Project Cost

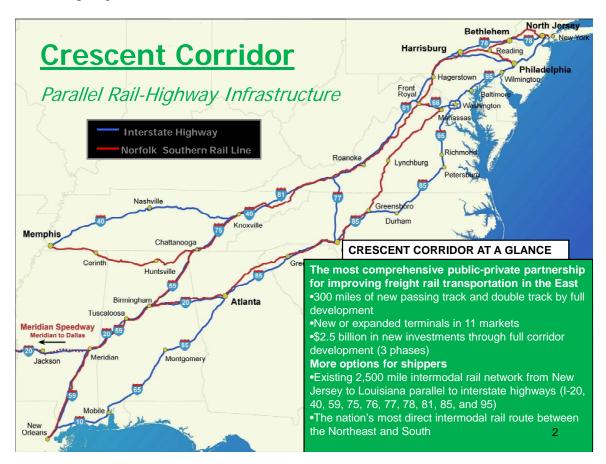
• \$2,300,000,000

Project Source

• Norfolk Southern Crescent Corridor Project

Funding Status

• Partially Funded: Norfolk Southern committed \$264M, Federal \$105M TIGER (for two Intermodal Facilities, AL, TN), \$45M committed from PA, \$43M committed from VA, and \$60M more pledged from VA



NORFOLK SOUTHERN: CRESCENT CORRIDOR Projects in the National Capital Region

Background: Two Norfolk Southern Crescent Corridor projects fall within the National Capital Region (shown below and on map on page 9)

Norfolk Southern Crescent Corridor Projects in the Washington Region					
# City, County		Project Name	Description	Cost	
1	Manassas	5.8 mile B-Line Expansion	5.8 mile of second main line from Manassas to Balls Ford Road, connecting with a two-mile passing track NS constructed last year	\$25M-\$35M est.	
2	Manassas	2.1 mile Main Line Expansion	2.1 mile of third main track from Manassas (Powell mp 33.6) to South Manassas (mp 35.7)	\$20M-\$30M est.	
				TOTAL: \$45M-\$65M est	

NORFOLK SOUTHERN Short-Term: 5.8 Mile B-Line Expansion

Objective

- Build 5.8 mile of second main line from Manassas to Balls Ford Road, connecting with a 2-mile passing track Norfolk Southern constructed last year
- "Powell" is the junction south of Manassas passenger station where Norfolk Southern's main line from Atlanta connects with the B-Line to Front Royal, Harrisburg, and the northeast

Freight Benefit

- Relieve a critical chokepoint that has seen growth in intermodal service and the addition of Amtrak and VRE trains on the adjacent NS main line in recent years
- Volume and speed efficiencies

Total Project Cost

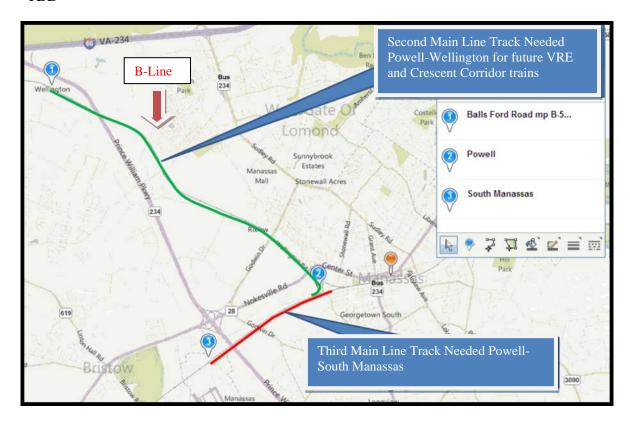
• \$25,000,000-\$35,000,000

Project Source

• Norfolk Southern

Funding Status

• TBD



DC Long-Term: Establish a Weigh Station within City Limits

Objective

• Preserving the physical condition of the highway transportation system by effectively applying size and weight standards and technologies along a Washington D.C. high volume truck route

Freight Benefit

• Comprehensive approach to enforcement of truck traffic throughout Washington D.C.

Total Project Cost

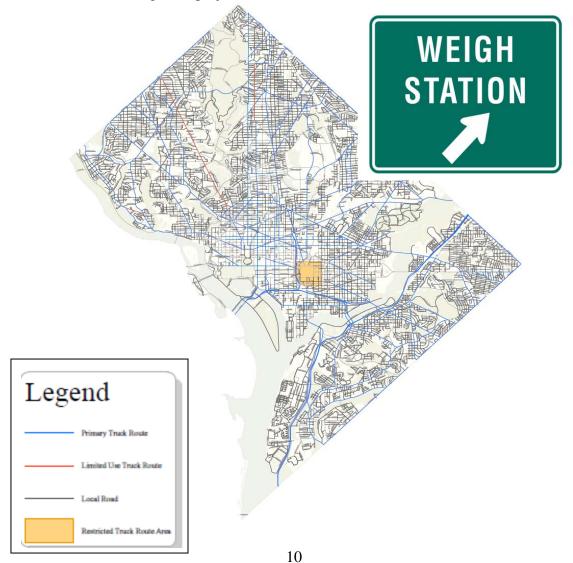
• \$8,000,000 (not including necessary land acquisition)

Project Source

• District of Columbia Department of Transportation

Funding Status

• No identified local budget for project



DC Short-Term: Uniform Commercial Curbside Loading Zone Program

Objective

• Uniform curb markings for commercial vehicle loading and unloading. Washington D.C. City Council introduced the Commercial Curbside Loading Zone Act of 2009, Bill 18-153. The Bill proposed to: (1) Establish loading zone meter fees; (2) Determine space for loading zones; and (3) Develop a payment process. The intent of the legislation is to establish a program that applies meter fees to those commercial vehicles using loading zones to encourage turnover, limit double parking, and better manage the use of public space. The Commercial Loading Zone Management Plan will address the curbside infrastructure, fees, payment methods, and enforcement techniques.

Freight Benefit

- Clarity for commercial vehicles
- Efficient use of curbside space, turnover
- Proper enforcement of commercial loading space

Total Project Cost

• \$300,000 annually

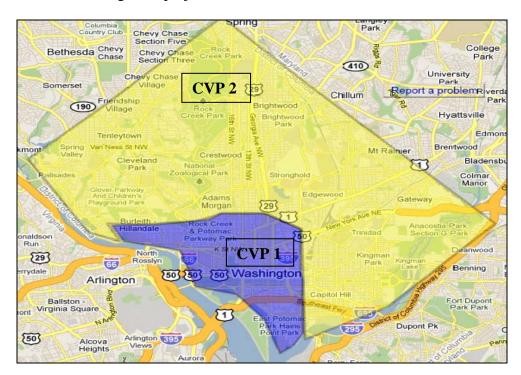
Project Source

• District of Columbia Department of Transportation

MINUTE MINUTE COMMERCIAL OR PERMIT VEHICLE TRUCK Uniform LOAD ONLY LOAD ONLY Recognizable Signage 7AM-6PM USE METER 684-5103 for Infor EXCEPT SUN-HOL TOW AWAY TOW-AWAY ZONE ZONE

Funding Status

• No identified local budget for project



MD Long-Term: Relieve Congestion along I-95/I-495 from Woodrow Wilson Bridge to Howard County Boundary

Objective

• To relieve existing congestion, provide access to planned development east and west of the corridor, and determine the feasibility of managed lanes

Freight Benefit

- Critical corridor for the delivery of goods to consumers in the subregion, as well as national network
- Relieve congestion and increase travel time reliability for freight deliveries
- Improve access to regional distribution points across Maryland, Virginia, and the District of Columbia
- Improve the bottleneck at the I-95/I-495 interchange, ranked the 27th worst bottleneck in the 2009 Bottleneck Analysis of 100 Freight Significant Highway Corridors

Total Project Cost

• \$3.0-\$5.0 billion dollars (includes interchange improvements at Contee Road, Greenbelt Metro Station, and MD 5 Phase II and a portion of the Capital Beltway Study; a range is provided to include the mainline widening for the section between I-495 and the Howard County line which doesn't have a cost estimate since it is not an active project)

Project Source

• MDOT/State Highway Administration

Funding Status

A portion of this project, I-95/I-495 to I-95 is a part of MDOT's Capital Beltway (Woodrow Wilson Bridge to American Legion Bridge) is in project planning but is currently on hold due to the national economic downturn. Interchanges at Arena Drive Phase II, Greenbelt Metro Station, MD 5 Branch Ave Phase II, and Contee Road are in various stages of design and also on-hold. Improvements to interchanges at I-295. Arena Drive Phase I and MD 5 Phase I were recently completed.

Table 4.3	Top Maryland Highway Segments by Total AADTT 2007

Rank	Location	AADTT Range	Notes
1	I-95 DE state line to Havre de Grace except for the Tydings Bridge	16,300 to 17,700	Lower truck counts on Tydings Bridge (over Susquehanna)
2	I-81 Washington County	15,200 to 16,000	Except a short section between MD 58 and Maugansville Road near Mack Truck plant
3	I-95 Between the Baltimore and Washington Beltways	15,800 to 15,900	Drops to 10,200 between MD 32 and MD 175 (Jessup)
4	I-95 in Baltimore and Harford Counties	13,800 to 15,200	From I-695 to Aberdeen area
5	I-95/I-495 in Prince George's County	12,400 to 13,600	Data for several Beltway sections drops to as low as 8,800 (near MD 214), 6,500 (near Greenbelt Metro), and 6,500 near Woodrow Wilson bridge

Source: MD Statewide Freight Plan 2009

MD Short-Term: I-70 Phase 4

Objective

- To increase corridor capacity where there is a high percentage of truck traffic
- To upgrade existing I-70 from Mount Philip Road to west of MD 355, to construct needed movements at existing interchanges, lengthen exiting acceleration and deceleration lanes, correct deficient merge/weaving actions, and to bring the segment up to modern highway standards

Freight Benefit

- Increase travel time reliability for freight deliveries and pickups
- Improve safety at the associated interchanges
- Provide a modern high-capacity highway capable of handling current and future generations of freight hauling vehicles

Total Project Cost

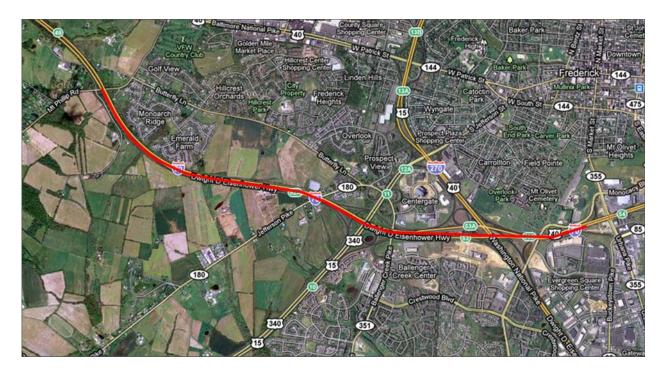
• \$100-\$120 million

Project Source

• MDOT/State Highway Administration

Funding Status

• The project is included in the Constrained Long Range Plan/Transportation Improvement Plan but is currently on-hold



VA Long-Term:

Relieve Congestion along the I-95 Corridor From Prince William County Southern Boundary to MD Boundary

Objective

- Relieve congestion of I-95
- Accommodate growth in freight traffic

Freight Benefit

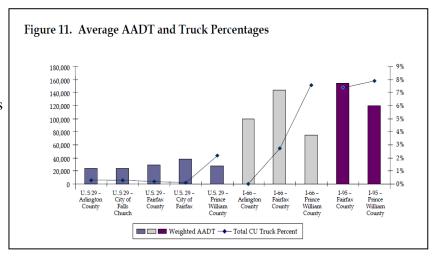
- Relieve Congestion
- Critical for delivery of goods to consumers in subregion, as well as national network

Total Project Cost

• \$Unknown

Project Source

• Virginia Department of Transportation



Funding Status

• Unknown

Figure 13. Northern Virginia Freight Transportation Bottlenecks

West Virginia

West Virginia

West Virginia

DCA

Manyland

Primary Roads

Interstate Highways

Road Bottlenecks

Rail

Rail Bottlenecks

Rail

Wirginia Counsies

Virginia Coun

Source: Draft Virginia Statewide Multimodal Freight Study, 2010

VA Short-Term: I/66 and I/495 Access Improvements

Objective

• To relocate the existing general purpose exit ramp from eastbound I-66 to northbund I-495 general purpose lanes so as to have the exit ramp merge with I-495 on the right side instead of the left side

Freight Benefit

- To relieve the I-66/I-495 intersection, a major truck bottleneck in the region
- All trucks must exit I-66 at this point, trucks are not allowed on I-66 inside the Beltway

Total Project Cost

• \$106,716,000

Project Source

• Virginia DOT

Funding Status

• CLRP/TIP Project

by Total Commodity Value					
Interchange	ST	Key Commodity Value (Million Dollars)	Rank	Key Commodity Tons (1,000)	Rank
I-78 at I-95	ИЛ	860,000	1	180,000	6
I-495 at I-66	VA	820.000	2	190.000	1

Table 4.7 Worst Five Truck Bottlenecks in Each State Ranked

