

ITEM 7 – Action
November 15, 2017

Critical Urban Freight Corridor Designation for the
National Capital Region

Staff

Recommendation: Approve Resolution R6-2018 to designate the National Capital Region’s Critical Urban Freight Corridors.

Issues: None

Background: The board will be briefed on the draft critical urban freight corridor segments for the Maryland, District of Columbia, and Virginia portions of the National Capital Region and asked to approve the designation of these segments as the Region’s critical urban freight corridors.

NATIONAL CAPITAL REGION TRANSPORTATION PLANNING BOARD
777 North Capitol Street, N.E.
Washington, D.C. 20002

**RESOLUTION TO DESIGNATE CRITICAL URBAN FREIGHT CORRIDORS
IN THE NATIONAL CAPITAL REGION PLANNING AREA**

WHEREAS, the National Capital Region Transportation Planning Board (TPB), which is the metropolitan planning organization (MPO) for the Washington Region, has the responsibility under the provisions of the Fixing America's Surface Transportation (FAST) Act for developing and carrying out a continuing, cooperative and comprehensive transportation planning process for the Metropolitan Area; and

WHEREAS, the provisions of the FAST Act enable the designation of Critical Urban Freight Corridors as part of the National Highway Freight Network; and

WHEREAS, provisions of the FAST Act authorize MPOs with a population greater than 500,000 (including the TPB) to designate public roads within its urbanized area as Critical Urban Freight Corridors in consultation with the State(s); and

WHEREAS, Critical Urban Freight Corridors are important complements to the Primary Highway Freight System designated in the FAST Act, to provide Federal funding eligibility for a wide range of activities including planning, engineering, and construction; and

WHEREAS, TPB staff has collaborated with officials at the Maryland Department of Transportation (MDOT), the Virginia Department of Transportation (VDOT), and the District Department of Transportation (DDOT) to identify Critical Urban Freight Corridors in those respective states that meet the criteria for designation as set forth under provisions of the FAST Act; and

WHEREAS, these CUFC designations have been reviewed and recommended for TPB approval by the TPB Freight Subcommittee and the TPB Technical Committee.

NOW, THEREFORE, BE IT RESOLVED THAT the National Capital Region Transportation Planning Board approves the designation of the Maryland, Virginia, and District of Columbia public roads listed in the attached tables as Critical Urban Freight Corridors, as described in the attached materials.

Table 1: Critical Urban Freight Corridors in the Maryland Portion of the National Capital Region

ID	Route Number	Start Point	End Point	Length (miles)	Criteria*
CUFC MD.01	US 15	MD 26	US 40 / S. Jefferson St	3.2	J, K
CUFC MD.02	US 40	US 15 / US 340	I-70 / I-270	0.6	I, J, K
CUFC MD.03	US 15 / US 340	I-70	Mt. Zion Rd	2.5	K
CUFC MD.04	US 15	Hayward Rd	MD 26	1.0	J, K
CUFC MD.05	US 301	Mattawoman Rd	Smallwood Dr	4.0	I, J, K
CUFC MD.06	US 50	DC / MD line	MD 410	4.1	I, J, K
CUFC MD.07	MD 198	Old Columbia Pike	I-95	2.6	J, K
CUFC MD.08	MD 201 (Kenilworth Ave)	US 50	MD / DC line	0.5	I, J, K
CUFC MD.09	MD 4	I-95	MD 337	0.9	J, K
CUFC MD.10	MD 185 (Connecticut Ave)	I-495	MD 410 (East West Hwy)	1.2	J, K
CUFC MD.11	MD 5	Surratts Rd	MD 373	3.5	K

* Criteria code:

- H: Connects an intermodal facility to the PHFS, the Interstate System, or an intermodal freight facility
- I: Is located within a corridor of a route on the PHFS and provides an alternative option important to goods movement
- J: Serves a major freight generator, logistics center, or manufacturing and warehouse industrial land
- K: Is important to the movement of freight within the region, as determined by the MPO or the State

Table 2: Critical Urban Freight Corridors in the Virginia Portion of the National Capital Region

ID	Route Number	Start Point	End Point	Length (miles)	Criteria*
CUFC VA.01	I-395	I-95	VA-DC Line	10.5	I, K
CUFC VA.02	US 29	Old Route 670	NCL Warrenton	2.5	K
CUFC VA.03	VA 234 (Prince William Pkwy)	University Blvd	I-66	3.5	J, K
CUFC VA.04	VA 7	VA 267 (Dulles Toll Rd)	VA 123 (Chain Bridge Rd)	1.4	J, K

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- H: Connects an intermodal facility to the PHFS, the Interstate System, or an intermodal freight facility
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Table 3: Critical Urban Freight Corridors in the District of Columbia Portion of the National Capital Region

ID	Route	Start Point	End Point	Length (miles)	Criteria*
CUFC DC.01	16th St	U St NW/New Hampshire Ave NW	K St NW	0.9986	K
CUFC DC.02	Georgia Ave	DC Line/Eastern Ave NW	Florida Ave NW	4.7550	J, K, I
CUFC DC.03a	Massachusetts Ave.	Dupont Cir NW	9th St NW	1.0611	J, K
CUFC DC.03b	Massachusetts Ave.	7th St NW	North Capitol St BN	0.7636	J, K
CUFC DC.04a	Pennsylvania Ave.	29th St NW	22nd St NW	0.4744	J, K
CUFC DC.04b	Pennsylvania Ave.	14th St NW	3rd St NW	0.9522	J, K
CUFC DC.04c	Pennsylvania Ave.	Independence Ave SE	DC Line/Southern Ave SE	3.4834	K
CUFC DC.05	Wisconsin Ave.	DC Line/Western Ave NW	M St NW	4.1218	J, K
CUFC DC.06	Connecticut Ave.	DC Line/Western Ave NW	K St NW	5.0031	J, K
CUFC DC.07	Rhode Island Ave.	DC Line/Eastern Ave NE	Scott Cir NW	4.5508	J, K
CUFC DC.08	South Dakota Ave.	Riggs Rd NE	New York Ave NE	3.7028	J, K
CUFC DC.09	Florida Ave.	9th St NW	H St NE	2.4386	J, K
CUFC DC.10	North Capitol St.	New Hampshire Ave NE	Louisiana Ave NE	4.3487	K, I
CUFC DC.11	14th St.	Rhode Island Ave NW	I-395	2.5628	J, K
CUFC DC.12	Nebraska Ave.	Military Rd NW	Tenley Cir NW	1.1852	K
CUFC DC.13	H St.	Florida Ave NE	Massachusetts Ave NW	1.7157	K
CUFC DC.14	7th St.	Florida Ave NW	Independence Ave SW	1.9797	J, K
CUFC DC.15	Benning Rd.	East Capitol St BN	Florida Ave NE	2.6696	J, K
CUFC DC.16	Missouri Ave.	Military Rd NW	North Capitol St BN	1.3273	K
CUFC DC.17	K St.	27th St NW	7th St NW	1.8414	J, K
CUFC DC.18a	Constitution Ave.	14th St NW	Pennsylvania Ave NW	0.7297	K
CUFC DC.18b	Constitution Ave.	Pennsylvania Ave NW	Louisiana Ave NW	0.1781	K
CUFC DC.19	Independence Ave.	14th St SW	3rd St SW	0.9043	H, K
CUFC DC.20	South Capitol St.	Firth Sterling Ave SE	Washington Ave SW	2.3447	J, K, I
CUFC DC.21	M St.	US29	29th St NW	0.6764	J, K
CUFC DC.22	Military Rd.	Nebraska Ave NW	Missouri Ave NW	1.9496	K
CUFC DC.23	New Hampshire Ave.	DC Line/Eastern Ave NE	North Capitol St BN	0.7020	J, K
CUFC DC.24	Dupont Cir.	Massachusetts Ave NW	Massachusetts Ave NW	0.2682	K
CUFC DC.25	U St.	15th St NW	9th St NW	0.5700	J, K
CUFC DC.26	Thomas Cir.	M St NW	M St NW	0.1569	K
CUFC DC.27	Tenley Cir.	Nebraska Ave NW	Nebraska Ave NW	0.1359	K
CUFC DC.28	Washington Cir.	Pennsylvania Ave NW	Pennsylvania Ave NW	0.2318	K

ID	Route	Start Point	End Point	Length (miles)	Criteria*
CUFC DC.29	Scott Cir.	Massachusetts Ave NW	Massachusetts Ave NW	0.1165	K
CUFC DC.30	New York Ave. (US 50)	DC Line NE	7th St NW	4.6039	J, K, I
CUFC DC.31	East Capitol St.	DC Line/Southern Ave SE	Benning Rd SE	1.3113	K, I
CUFC DC.32	Louisiana Ave.	North Capital St BN	Constitution Ave NW	0.3042	K
CUFC DC.33	Riggs Rd.	South Dakota Ave NE	North Capitol St BN	0.4001	K
CUFC DC.34a	9th St.	Mt Vernon Pl NW	K St NW	0.0581	K
CUFC DC.34b	9th St.	Pennsylvania Ave NW	Frontage Rd SW	0.7452	K
CUFC DC.35	12th St.	I-395 BN	Pennsylvania Ave NW	1.1082	K
CUFC DC.36	Francis Scott Key Bridge	DC Line/GW Memorial Pkwy	M St NW	0.3111	K
CUFC DC.37	Mt. Vernon Pl.	7th St NW	9th St NW	0.1145	K
CUFC DC.38	Anacostia Fwy	I-295	East Capitol St BN	2.4600	K, I
CUFC DC.39	Kenilworth Ave	East Capitol St BN	DC Line/Eastern Ave NE	2.0424	K
CUFC DC.40	Water St NW/Whitehurst Fwy NW	350' east of Key Bridge NW	27th St NW	0.7850	K

* Criteria code:

- H: Connects an intermodal facility to the PHFS, the Interstate System, or an intermodal freight facility
I: Is located within a corridor of a route on the PHFS and provides an alternative option important to goods movement
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MEMORANDUM

TO: Transportation Planning Board
FROM: Jon Schermann, TPB Transportation Planner
SUBJECT: Critical Urban Freight Corridor Designation for the National Capital Region
DATE: November 15, 2017

This memorandum describes the proposed Critical Urban Freight Corridor (CUFC) segments for the National Capital Region. The Board will be requested to take action to designate the Critical Urban Freight Corridors for the National Capital Region during the November 15, 2017 TPB meeting.

BACKGROUND

The Fixing America's Surface Transportation (FAST) Act established the National Highway Freight Program (NHFP) to improve the efficient movement of freight on the National Highway Freight Network (NHFN). The NHFP provides Federal funding eligibility for a wide range of activities including planning, engineering, and construction on the NHFN.

The NHFN consists of four components:

- Primary Highway Freight System (PHFS);
- The portions of the Interstate System not on the PHFS;
- Critical Rural Freight Corridors (CRFC); and
- Critical Urban Freight Corridors (CUFC).

The first two components (PHFS and other interstate portions not on the PHFS) were designated within the FAST Act itself. The last two components (Critical Rural Freight Corridors and Critical Urban Freight Corridors) may be designated by either State Departments of Transportation (DOT) or by Metropolitan Planning Organizations (MPO) depending on the type of corridor (CRFC or CUFC) and the size of the MPO. In all cases, the FAST Act requires DOTs and MPOs to coordinate on CRFC and CUFC designations as shown in Table 1 (next page).

Table 1: Role in Designating CUFCs and CRFCs

Corridor Type	State DOT role	MPO role
CRFC	Designates all CRFC's – must coordinate with MPOs	Coordinates with state DOTs
CUFC	Designates CUFCs in MPOs with less than 500,000 population – must coordinate with MPOs	Designates CUFCs in MPOs with greater than 500,000 population – must coordinate with state DOTs

After December 4, 2017, designated and approved CUFCs and CRFCs become part of the National Highway Freight Network (NHFN) and thereby become eligible for National Highway Freight Program (NHFP) funding.¹ Table 2 below provides a rough estimate of the NHFP funding available statewide for each of our member states. The remainder of this memorandum will focus exclusively on Critical Urban Freight Corridors (CUFC).

Table 2: Estimate of NHFP Funding by State (statewide)

State	NHFP Funds
District of Columbia	approximately \$6 million / year
Maryland	approximately \$20 million / year
Virginia	approximately \$25 million / year

REQUIREMENTS FOR DESIGNATION OF CRITICAL URBAN FREIGHT CORRIDORS

To be designated as a Critical Urban Freight Corridor, a candidate public roadway must be located within an urbanized area and meet at least one of the following criteria:

- Connects an intermodal facility to the PHFS, the Interstate System, or an intermodal freight facility;
- Is located within a corridor of a route on the PHFS and provides an alternative option important to goods movement;
- Serves a major freight generator, logistics center, or manufacturing and warehouse industrial land; or
- Is important to the movement of freight within the region, as determined by the MPO or the State.

¹ Provided the State has an approved, FAST-Act compliant State Freight Plan.

Two caveats should be noted regarding CUFCs. First, they comprise a funding network – they do not have to be contiguous, nor is there necessarily enough mileage allotted in the FAST Act to allow for a contiguous functional network. Second, CUFCs can be redesignated as needed, and would be expected to be designated for locations where projects are programmed or anticipated in the near future.

MILEAGE LIMITATIONS

For each state, according to the FAST Act, a maximum of 75 miles of highway or 10% of the PHFS mileage in the state, whichever is greater, may be designated as a CUFC. Table 3 shows the relevant mileage limitations for Maryland, Virginia, and the District of Columbia.

Table 3: Critical Urban Freight Corridor Mileage

State	CUFC Miles: Total	CUFC Miles: National Capital Region
Maryland	75.00	25.0
District of Columbia	75.00	75.0
Virginia	83.35	17.8

MARYLAND CRITICAL URBAN FREIGHT CORRIDORS

The proposed Maryland CUFC segments listed here are **nearly identical to those that the TPB Steering Committee provisionally designated at their June 2, 2017 meeting**. The Steering Committee action was part of an expedited process that MDOT requested for the approval of provisional CUFCs within Maryland to enable completion of their FAST Act-compliant State Freight Plan by June 30, 2017. The TPB will be requested to designate the full set of National Capital Region CUFCs including those in Maryland, Virginia, and the District of Columbia in November 2017. The Maryland Public Roads listed in Table 4 and shown in Figure 1 (below and following page) are proposed as CUFCs.

Table 4: Critical Urban Freight Corridors in the Maryland Portion of the National Capital Region

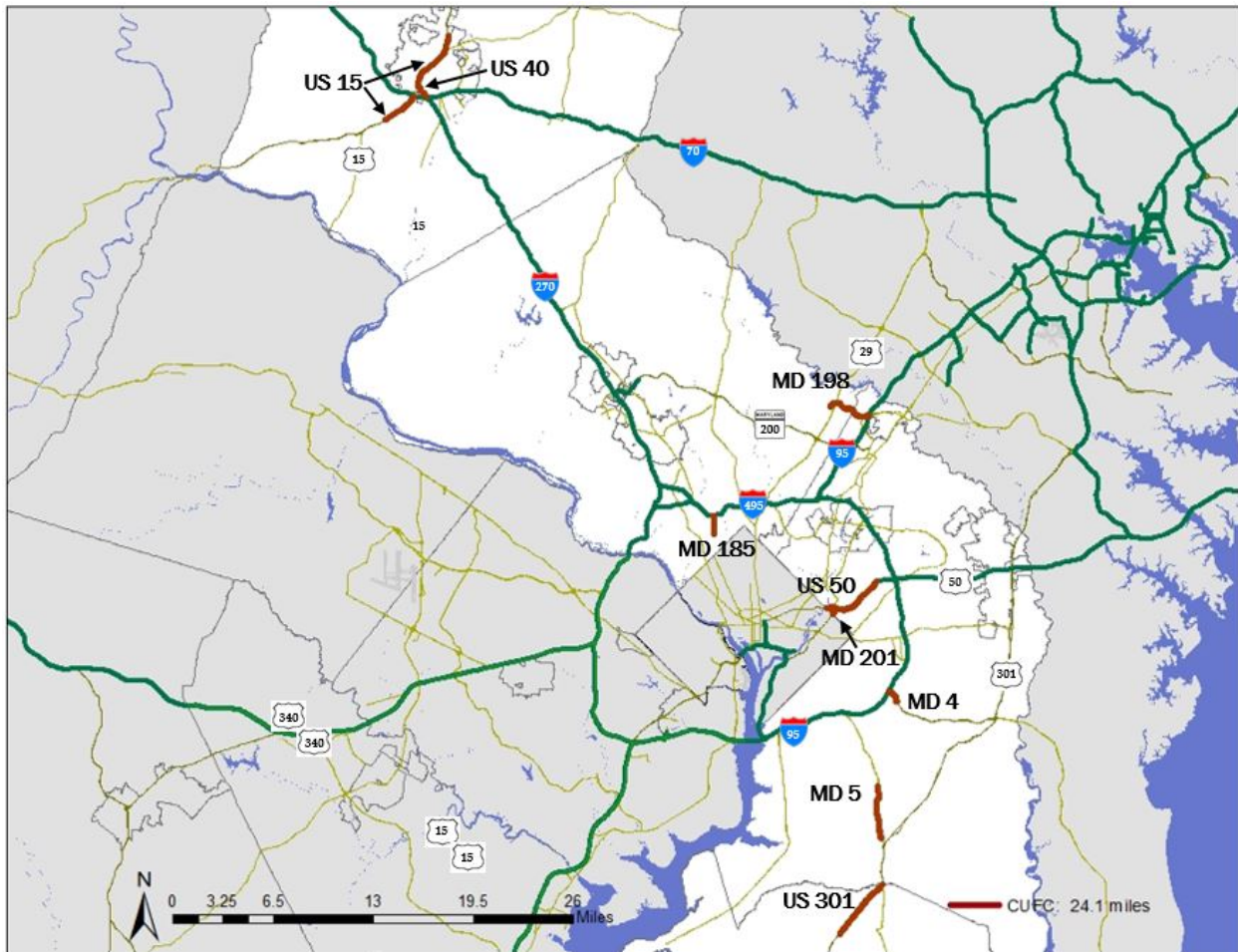
ID	Route Number	Start Point	End Point	Length (miles)	Criteria*
CUFC MD.01	US 15	MD 26	US 40 / S. Jefferson St	3.2	J, K
CUFC MD.02	US 40	US 15 / US 340	I-70 / I-270	0.6	I, J, K
CUFC MD.03	US 15 / US 340	I-70	Mt. Zion Rd	2.5	K
CUFC MD.04	US 15	Hayward Rd	MD 26	1.0	J, K
CUFC MD.05	US 301	Mattawoman Rd	Smallwood Dr	4.0	I, J, K
CUFC MD.06	US 50	DC / MD line	MD 410	4.1	I, J, K
CUFC MD.07	MD 198	Old Columbia Pike	I-95	2.6	J, K
CUFC MD.08	MD 201 (Kenilworth Ave)	US 50	MD / DC line	0.5	I, J, K
CUFC MD.09	MD 4	I-95	MD 337	0.9	J, K

ID	Route Number	Start Point	End Point	Length (miles)	Criteria*
CUFC MD.10	MD 185 (Connecticut Ave)	I-495	MD 410 (East West Hwy)	1.2	J, K
CUFC MD.11	MD 5	Surratts Rd	MD 373	3.5	K

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Figure 1: CUFCs (Red) and Other NHFN-Designated Roadways (Green) in the Maryland Portion of the National Capital Region



MARYLAND METHODOLOGY

TPB and SHA staff worked together to identify the CUFCs shown above. The methodology utilized both objective data and professional judgment and is outlined on the next page:

- The Maryland State Highway Administration (SHA) and its consultant partner Cambridge Systematics developed a Geographic Information System (GIS) geodatabase that assigned truck volumes and a freight density score² to each link in Maryland’s highway network.
- TPB staff scored each urban link within the Maryland portion of the National Capital Region by normalizing the truck volumes and freight density scores and then combining them into a “total score”.
- The links were sorted in descending order by total score.
- The highest scoring corridor segments (by total score) totaling 50 miles in length (twice the mileage allotted) were identified by TPB staff iteratively querying the geodatabase.
- The resulting 50 miles of CUFC corridor “candidates” were compared to project locations within Maryland’s 2017 Consolidated Transportation Program to identify those candidate corridors where expenditures are planned for budget years 2018 through 2022.
- Those candidate corridors (less than 25 miles in total length) were advanced to the final stage.
- The highest scoring remaining candidates were advanced to the final stage such that the total combined mileage of all the identified corridors did not exceed 25 miles.
- These “final” CUFCs comprise the list displayed in Table 4 and are the Critical Urban Freight Corridors the Steering Committee will be asked to provisionally approve.

VIRGINIA CRITICAL URBAN FREIGHT CORRIDORS

The Virginia Public Roads listed in Table 5 and Figure 2 (below and following page) are proposed as CUFCs.

Table 5: Critical Urban Freight Corridors in the Virginia Portion of the National Capital Region

ID	Route Number	Start Point	End Point	Length (miles)	Criteria*
CUFC VA.01	I-395	I-95	VA-DC Line	10.5	I, K
CUFC VA.02	US 29	Old Route 670	NCL Warrenton	2.5	K
CUFC VA.03	VA 234 (Prince William Pkwy)	University Blvd	I-66	3.5	J, K
CUFC VA.04	VA 7	VA 267 (Dulles Toll Rd)	VA 123 (Chain Bridge Rd)	1.4	J, K

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² The freight density score is based on each roadway link’s proximity to freight dependent businesses. It is derived using US Census Bureau economic census data and other sources.

- Urban roadway links in Virginia’s portion of the TPB planning area were sorted in descending order by overall score
- TPB staff iteratively identified top 50 miles of CUFC “candidates”
- Three tiers (17.8, 22.4, and 30.1 miles) of CUFCs were identified based on total scores and planned VDOT investments. VDOT notified TPB staff that the 17.8-mile tier would be the correct tier to use at this time.

DISTRICT OF COLUMBIA CRITICAL URBAN FREIGHT CORRIDORS

The District of Columbia Public Roads listed in Table 6 and Figures 3 and 4 (below and following pages) are proposed as CUFCs.

Table 6: Critical Urban Freight Corridors in the District of Columbia Portion of the National Capital Region

ID	Route	Start Point	End Point	Length (miles)	Criteria*
CUFC DC.01	16th St	U St NW/New Hampshire Ave NW	K St NW	0.9986	K
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Figure 3: CUFCs (Green) in the District of Columbia

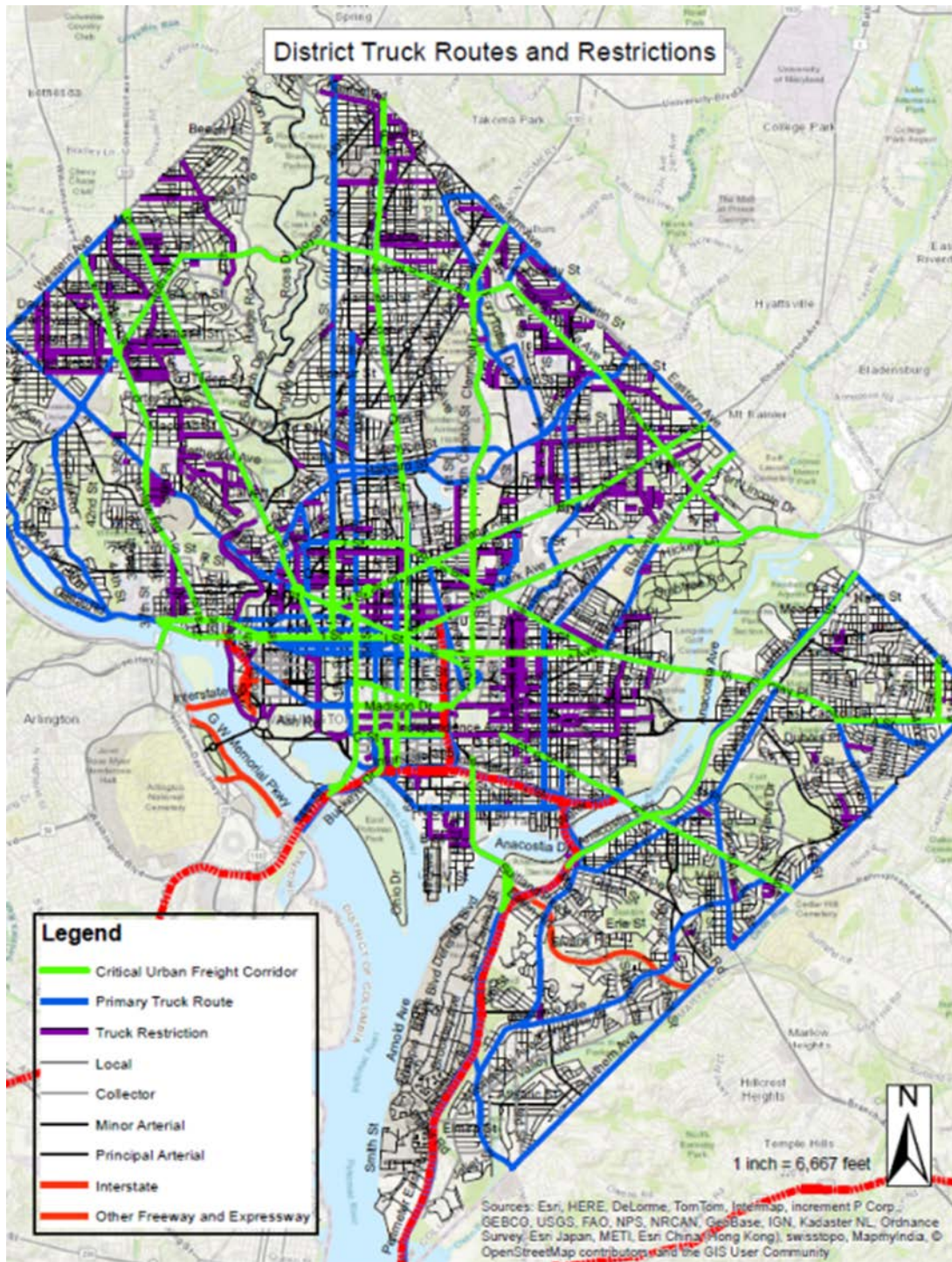
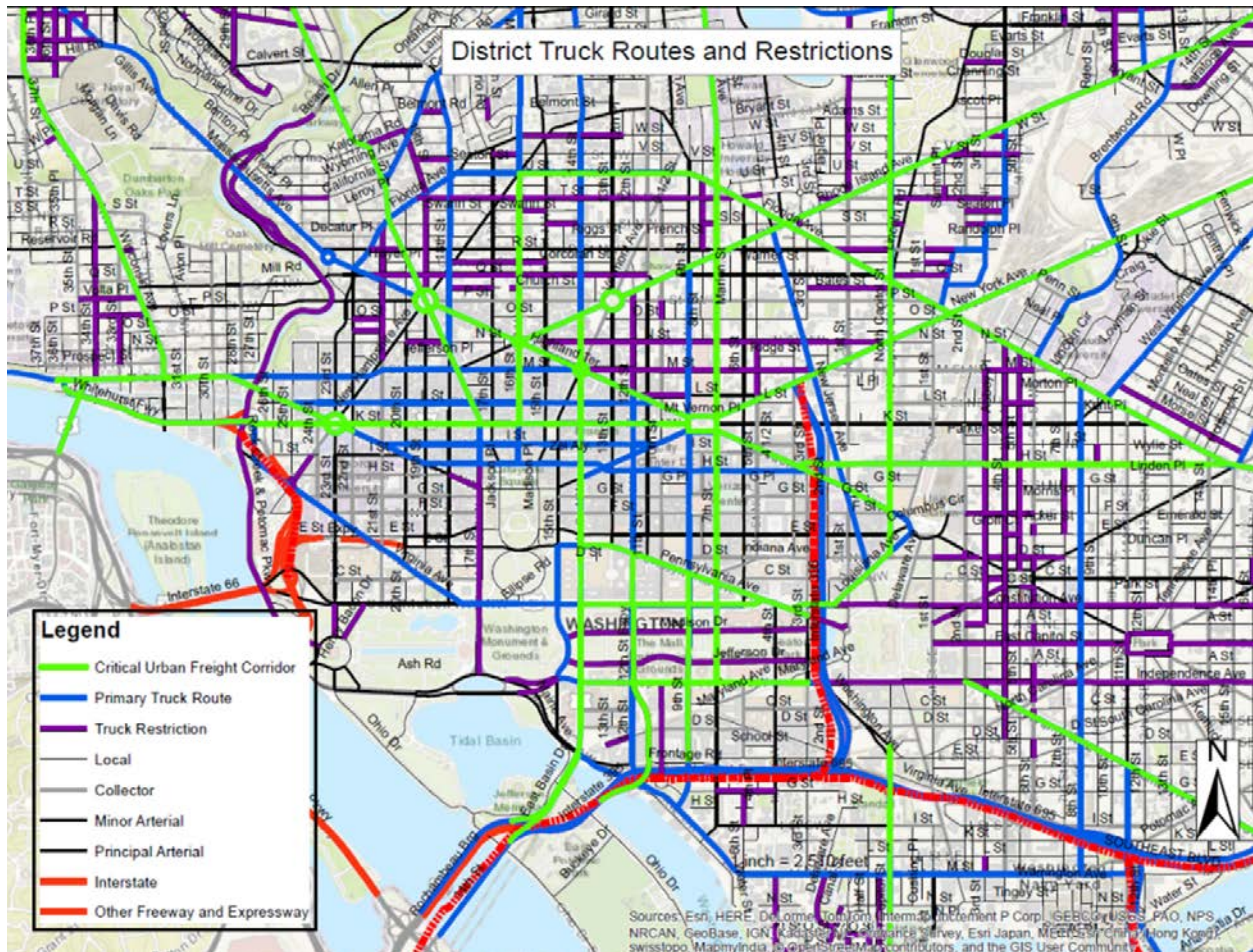


Figure 4: CUFCs in the District of Columbia – Downtown Area Detail



DISTRICT OF COLUMBIA METHODOLOGY

DDOT staff used their 2010 District truck and bus route designation as a starting point in their work to identify CUFC segments. The effort to designate truck and bus routes in the District included extensive data collection and analysis that considered road characteristics, percent truck traffic, AADT, functional classification, and connectivity. The truck and bus route designation process also included a thorough review of existing restrictions and outreach to the public and private industry.

Because the extent of the designated truck and bus routes was greater than the 75 mile CUFC limit, DDOT staff analyzed additional factors to select the most important segments from the overall truck and bus route network. This included analysis of high traffic corridors, connections to freight generators and commercial districts, and locations of planned investments, among other considerations.

SUMMARY OF NATIONAL HIGHWAY FREIGHT NETWORK MILEAGE IN THE NATIONAL CAPITAL REGION

Most of the National Highway Freight Network (NHFN) miles within the National Capital Region were designated by Congress within the FAST Act. Because Critical Urban Freight Corridors become part of the NHFN, the proposed segments identified in this memo will provide additional miles to the NHFN as shown in Table 7 below.

Table 7: National Highway Freight Network Miles within the National Capital Region

State	NHFN miles established within the		Total NHFP miles
	FAST Act	Proposed CUFC miles	
District of Columbia	11.7	73.1	84.8
Maryland	126.3	24.1	150.4
Virginia	73.6	17.8	91.4
National Capital Region	211.6	115.0	326.6

NEXT STEPS

- Following TPB action, the TPB resolution designating CUFCs will be submitted to the FHWA with copies to the state DOTs.