

ITEM 8 – Action

July 24, 2019

FY 2021-2024 TIP and Visualize 2045 Updates:
Inputs for the and Air Quality Conformity Analysis and
the Air Quality Conformity Scope of Work

Action #1: Adopt Resolution R1-2020 to approve the project submissions for inclusion in the Air Quality Conformity Analysis of the FY 2021-2024 TIP and the 2020 Amendment to the Visualize 2045 Plan.

Action #2: Approve the Scope of Work for the Air Quality Conformity Analysis of the FY 2021-2024 TIP and the 2020 Amendment to the Visualize 2045 Plan.

Background: The board was briefed on the inputs received and the Scope of Work for an air quality conformity analysis of the FY 2021-2024 TIP and 2020 Amendment to the Visualize 2045 Plan in June. The board will be asked to approve the project inputs and the air quality conformity Scope of Work.

TPB R1-2020
July 24, 2019

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

**RESOLUTION ON INCLUSION OF PROJECT SUBMISSIONS IN THE AIR
QUALITY CONFORMITY ANALYSIS OF THE FY2021-2024 TRANSPORTATION IMPROVEMENT
PROGRAM (TIP) AND THE 2020 AMENDMENT TO THE VISUALIZE 2045 PLAN**

WHEREAS, the National Capital Region Transportation Planning Board (TPB), as the metropolitan planning organization for the Washington metropolitan area, has the responsibility under the provisions of 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 Statewide and Metropolitan Transportation Planning rule as published in the May 27, 2016 Federal Register by the Federal Transit Administration (FTA) and the Federal Highway Administration (FHWA) requires that the long-range transportation plan be reviewed and updated at least every four years; and

WHEREAS, the transportation plan, program and projects must be assessed for air quality conformity as required by the conformity regulations originally published by the Environmental Protection Agency in the November 24, 1993 Federal Register and with latest amendments published in April 2012; and

WHEREAS, on October 17, 2018 the TPB adopted resolution R4-2019 determining that the Visualize 2045 Plan and FY 2019-2024 TIP conform with the requirements of the Clean Air Act Amendments of 1990, resolution R5-2019 approving the Visualize 2045 Plan, and resolution R6-2019 approving the FY 2019-2024 TIP; and

WHEREAS, the TPB staff released the Technical Inputs Solicitation Submission Guide and asked for inputs to the FY 2021-2024 TIP and 2020 Amendment to the Visualize 2045 Plan on May 3, 2019; and

WHEREAS, the transportation implementing agencies in the region have submitted inputs for the FY 2021-2024 TIP and the 2020 Amendment to the Visualize 2045 Plan, which have been reviewed by the Technical Committee at its meetings on June 7, 2019 and July 12, 2019; and

WHEREAS, the TPB was briefed on the submissions for the FY 2021-2024 TIP and the 2020 Amendment to the Visualize 2045 Plan at its June 19, 2019 meeting; and

WHEREAS, the adoption of the FY 2021-2024 TIP and the 2020 Amendment to the Visualize 2045 Plan by the TPB is scheduled for March 18, 2020 upon completion of a 30-day public comment period including interagency consultation on the results of the regional air quality conformity analysis of the FY 2021-2024 TIP and the 2020 Amendment to the Visualize 2045 Plan; and

WHEREAS, the project submissions for the FY 2021-2024 TIP and the 2020 Amendment to the Visualize 2045 Plan have been developed to meet the financial constraint requirements in the Metropolitan Planning Rules and show the consistency of the proposed projects with already available and projected sources of transportation revenues;

NOW, THEREFORE, BE IT RESOLVED THAT: the National Capital Region Transportation Planning Board approves for inclusion in the air quality conformity analysis of the FY 2021-2024 TIP and the 2020 Amendment to the Visualize 2045 Plan, the project submissions as described in the attached memorandum.



MEMORANDUM

TO: Transportation Planning Board
FROM: Jane Posey, Transportation Engineer
SUBJECT: Project Inputs and Scope of Work for the Air Quality Conformity Analysis of the FY 2021-2024 TIP and the 2020 Amendment to the Visualize 2045 Plan
DATE: July 18, 2019

The project submissions and the Scope of Work for the air quality conformity analysis of the FY 2021-2024 Transportation Improvement Program (TIP) and the 2020 Amendment to the Visualize 2045 Plan were reviewed by the Technical Committee in June and July and shared with the TPB at its June meeting. The board will be asked to approve the project submissions for inclusion in the air quality conformity analysis of the FY 2021-2024 Transportation Improvement Program (TIP) and the 2020 Amendment to the Visualize 2045 Plan, and the corresponding Scope of Work.

Attachment A lists the proposed inputs to the FY 2021-2024 TIP and changes to the Visualize 2045 Plan for inclusion in the air quality conformity analysis.

Attachment B documents the air quality conformity analysis Scope of Work, which presents an outline of the work tasks required to address all regulations currently applicable.

CHANGES AND CORRECTIONS MADE TO PROJECT INPUTS AND SCOPE OF WORK

The attached conformity project input tables and the Scope of Work for the upcoming air quality conformity analysis are identical to the materials shared with the TPB in June, with the exception of the following minor corrections/updates:

In project inputs table (Attachment A):

Page A-1 Added K St. NW Transitway project with transit projects (was mentioned in significant changes list and included with the highway projects)

Page A-1 Changed completion date of Corridor Cities Transitway from 2022 to 2028

Page A-1 Changed completion date of VRE Service Improvements from 2020 to 2028

Page A-1 Added Long Bridge Study (already included in listing under DDOT)

Page A-1 Changed completion date of Crystal City Transitway Northern Extension dedicated lanes from 2021 to 2022

Page A-2 Added two segments of the Crystal City/Potomac Yards Transitway realignment to dedicated right-of-way in 2025 and 2030

Page A-2 Changed West End Transitway limits from “Van Dorn St. to Pentagon” to “Van Dorn St. to Pentagon & Landmark”

Page A-5 Changed “Reduce Capacity- Streetcar” to “Reduce Capacity- Transitway” for the two segments of the K St. NW Transitway

Page A-6 Added a capacity reduction- bike lane project on Lottsford Road from MD 202 to Largo Dr. West.- reduce from 6 to 4 lanes in 2020

Page A-8 Changed South Clark St. (Arlington) demolition limits from “12th St. S. to 18th St. S.” to “12th St. S. to 20th St. S.”

In the Scope of Work (Attachment B):

The reference to the Cooperative Forecasts was changed from “Round 9.1 or latest” to “Round 9.1a”

SUMMARY OF MAJOR PROJECT SUBMISSIONS

This section of the memo highlights the new or updated major project submissions from those listed in Attachment A.

DISTRICT OF COLUMBIA

The District Department of Transportation (DDOT) has proposed **to add the following projects** to the conformity analysis of the FY 2021-2024 TIP and Visualize 2045 amendment:

1. Two **Peak Period Bus-Only Lane Pilot Projects** implemented in 2019:
 - a. **H St. NW from 14th St. to 19th St.**, reduce capacity from 5 to 4 lanes (CON IDs 582, 822)
 - b. **I St. NW from 13th St. to Pennsylvania Ave.**, reduce capacity from 4 to 3 lanes (CON IDs 583, 823)
2. Eight **bicycle lane projects** that would reduce capacity for vehicular traffic (CON IDs 1003-1013):
 - a. **9 St. NW from Florida Ave. to Massachusetts Ave.** (4 to 2 lanes); **from Massachusetts Ave. to Constitution Ave.** (6/4 lanes to 4/2 lanes), complete 2019
 - b. **Dalecarlia Pkwy. NW from Loughboro Rd. to Westmoreland Circ.** (4 to 2 lanes), complete 2020
 - c. **Florida Ave. NE from 2nd St. to West Virginia Ave.** (6 to 4 lanes) **and from West Virginia Ave. to 14th St.** (3 to 2 lanes), complete 2019
 - d. **K St. NE from 1st St. to 8th St.** (3 to 2 lanes), complete 2019
 - e. **M St. SE from Half St. to 11th St.** (6 to 5 lanes), complete 2020
 - f. **Mount Olivet Rd. NE from Brentwood Pkwy. to West Virginia Ave.** (4 to 3 lanes), complete 2020
 - g. **Nebraska Ave. NW from New Mexico Ave. to Loughboro Rd.** (4 to 3 lanes), complete 2020
 - h. **Pennsylvania Ave. SE from 2nd St. to 17th St.** (8 to 6 lanes), complete 2020

3. Construct two segments of the **K St. NW Transitway from 9th St. to 12th St.**, reducing capacity from 4 lanes to 2 lanes **and from 12th St. to 21st St.**, reducing capacity from 6 lanes to 4 lanes allowing bus-only service on the transitway by 2021.

COMMONWEALTH OF VIRGINIA

The Virginia Department of Transportation (VDOT) has proposed to **add the following projects:**

1. Modifications to the **I-495 Capital Beltway Express Lanes ramps around the Dulles Toll Road interchange**, complete in 2025 and 2045 (CON IDs 999-1002)
2. Construct a **reversible ramp from I-95 at Opitz Dr.**, complete in 2022 (CON ID 1011)
3. Construct **VA 28 Manassas Bypass from VA 234 Sudley Rd. to VA 28 Centreville Rd.**, 4 lanes, complete in 2025 (CON ID 995)
4. Widen **VA 55 from US 29 to the Town of Haymarket**, 2 to 4 lanes, complete in 2028 (CON ID 997)
5. Widen **VA 123 from VA 267 Dulles Access Rd. to VA 634 Great Falls St.**, 4 to 6 lanes, complete in 2030 (CON ID 1015)
6. Widen **VA 286 Fairfax County Parkway from US 29 Lee Hwy. to Rolling Rd.**, 4 to 6 lanes, complete in 2030 (CON ID 728)
7. Construct **West End Transitway Phase II (Southern Segment) from Van Dorn Street Metro to Landmark Mall**, complete in 2026 (CON ID 1034)

NEXT STEPS

Following the TPB approval of the project inputs and Scope of Work, the air quality conformity analysis will be conducted between July 2019 and January 2020. Draft results will be released on January 31, 2020 for a public comment period. After the public comment period, the board will be asked to approve the air quality conformity analysis and the FY 2021-2024 TIP and the 2020 Amendment to the Visualize 2045 Plan at the March 18, 2020 meeting.

ATTACHMENT A

Additions & Changes
for the FY 2021-2024 TIP
& 2020 Amendment
to the Visualize 2045 Plan

2020 Amendment to VISUALIZE 2045 AIR QUALITY CONFORMITY NETWORK INPUTS (transit)

DRAFT 7/15/2019

| ConID | Scenario | Improvement | Facility | From | To | Projected Complete |
|-----------------|----------|----------------------------|---|---|--|---------------------------|
| DDOT | | | | | | |
| 822 | | Study-Implement | H St. NW Peak Period Bus-Only Lanes Pilot Project | 17th St. NW 19th St NW | New York Ave. NW- 14th St NW | Not Coded 2019 |
| 823 | | Study-Implement | I St. NW Peak Period Bus Only Lanes Pilot Project | 13th St. NW | Pennsylvania Ave. NW | Not Coded 2019 |
| | | Construct | K St. NW Transitway | 9th St. NW | 21st St. NW | 2021 |
| 610 | DCSTGTWN | Construct | Union Station/Georgetown Streetcar | K Street/34th Street NW | 3rd Street/H Street NE | 2025 2030 |
| MDOT/MTA | | | | | | |
| 481 | CCTBRT | Construct | Corridor Cities BRT | Shady Grove | Comsat | 2022 2028 |
| VDOT | | | | | | |
| 1028 | | Construct | Franconia to Occoquan 3rd Track Project | Control Point RO (Arlington) Rosslyn (RO) Interlocking near Long Bridge Park in Arlington, Virginia | L'Enfant (LE) Interlocking near 10th Street SW in the District of Columbia | 2028 |
| 1029 | | Construct | Alexandria 4th Track Project | milepost 110.1 south of the George Washington Memorial Parkway | near milepost 104.3 south of Telegraph Road | 2025 |
| 504 | VREFREQ | Implement | VRE Service Improvements (Reduce Headways) - associated with 3rd and 4th Track Projects | Fredericksburg and Manassas lines | | 2020 2028 |
| 1030 | | Study | Long Bridge (also in DDOT) | One mile north of the Franconia-Springfield VRE station (CFP 99.0) | Approximately 400 feet north of Furnace Road, just north of the Occoquan River (CFP 90.08) | Not Coded |
| 511 | MWAYBRT | Construct | Crystal City/Potomac Yard Busway (2 lane dedicated) | Vicinity of Glebe Road Extended (City/County Line) | Pentagon City Metro Station | Complete |
| 861 | | Construct | Crystal City Transitway: Northern Extension - complete dedicated lanes | Crystal City Metro Station | Army Navy Drive Transit Station (Army Navy Dr halfway between Hayes St and Joyce St) | 2024 2022 |

NOTE: Shaded areas represent changes from Visualize 2045

2020 Amendment to VISUALIZE 2045 AIR QUALITY CONFORMITY NETWORK INPUTS (transit)

DRAFT 7/15/2019

| | | | | | | Projected |
|-------|----------|---------------------|--|---|----------------------|-----------------|
| ConID | Scenario | Improvement | Facility | From | To | Complete |
| | | Construct | Crystal City Transitway: Southern Extension - complete dedicated lanes | South Glebe Road | Alexandria city line | 2025 |
| | | Construct | Crystal City/Potomac Yard Transitway-realign with dedicated right-of-way | East Glebe Road | Evans Lane | 2030 |
| 1018 | SILVER 2 | Construct | Park-and-Ride Garage | Herndon-Monroe Station | | 2020 |
| 1019 | SILVER 2 | Construct | Park-and-Ride Garage | Innovation Station | | 2020 |
| | | Expand | Park-and-Ride Lot | Stringfellow Road Park-and-Ride | | COMPLETE |
| 505 | VANDBRT | Construct | West End Transitway (City Funded) | Van Dorn Street Metro | Pentagon & Landmark | 2026 |
| 806 | | Expand Construct | I-66 Corridor Park and Ride lot garage | Fairfax County Government-Center/Monument Drive | | 2021 |

NOTE: Shaded areas represent changes from
Visualize 2045

**2020 Amendment to VISUALIZE 2045 AIR QUALITY CONFORMITY NETWORK INPUTS
(highway)**

DRAFT 7/15/2019

| Con ID | Project ID | Agency ID | Improvement | Facility | From | To | Facility | | Lanes | | Completion Date |
|-------------|------------|-----------|---|---|---|---|----------|----|-------|----|--------------------------------|
| | | | | | | | Fr | To | Fr | To | |
| DDOT | | | | | | | | | | | |
| 605 | DI9 | | Reconstruct | I 295 Interchange at Malcolm X Blvd. | Add above grade ramp connection from NB I-295 off ramp to new St. Elizabeth's Access Road | | | | | | 2018 2020 |
| 584 | DS3 | | Construct | Southern Ave. SE | Branch Ave. SE | Naylor Rd. SE | | | 0 | 2 | 2019- withdrawn |
| 582 | | | Study- Reduce Capacity | H St. NW Peak Period Bus-Only Lanes Pilot Project | 17th St. NW 19th St NW | New York Ave. NW- 14th St NW | | | 5 | 4 | Not Coded- 2019 |
| 583 | | | Study- Reduce Capacity | I St. NW Peak Period Bus Only Lanes Pilot Project | 13th St. NW | Pennsylvania Ave. NW | | | 4 | 3 | Not Coded- 2019 |
| 558 | DP16 | EDOC2A | Reduce Capacity | C Street/N. Carolina Avenue | Oklahoma Avenue | 14th Street NE | | | 5 | 3 | 2019 2020 |
| 567 | DP16 | | Reduce Capacity | East Capitol Street | 40th Street | Southern Ave | | | 6 | 4 | 2019 2021 |
| 608 | | | Reconstruct | New Jersey Avenue NW 1-way to 2-way | H Street NW | N Street NW | | | | | 2019 2020 |
| 717 | DS13 | | Reduce Capacity | Florida Avenue NE | 3rd Street | West Virginia Avenue | | | 6 | 4 | 2015 2019 |
| 710 | | | Reduce Capacity | Florida Avenue NE | 2nd Street | 3rd Street | | | 6 | 5 | 2017 2019 |
| 707 | NRS | | Reduce Capacity | New Jersey Avenue NW | H Street | Louisiana Ave | | | 4 | 2 | 2016 2020 |
| 713 | DS14 | | Reduce Capacity | Pennsylvania Avenue NW | 18th Street | 20th Street | | | 5 | 4 | 2017 2020 |
| 712 | DS15 | | Reduce Capacity | Pennsylvania Avenue NW | 17th Street | 18th Street | | | 6 | 4 | 2017 2021 |
| 715 | DS16 | | Reduce Capacity | Pennsylvania Avenue NW | 26th Street | 28th Street | | | 5 | 4 | 2017 2021 |
| 716 | DS17 | | Reduce Capacity | Pennsylvania Avenue NW | 28th Street | 29th Street | | | 4 | 2 | 2017 2021 |
| 714 | DS18 | | Reduce Capacity | Pennsylvania Avenue NW | 20th Street | 26th Street | | | 6 | 4 | 2017 2021 |
| 709 | DS19 | | Reduce Capacity | Wheeler Road SE | Alabama Avenue | Southern Avenue | | | 4 | 2 | 2016 2020 |
| 837 | DS20 | | Reduce Capacity - bike lanes | 4th Street NE | Lincoln Rd. NE | Harewood Rd. NE | | | 4 | 2 | 2016- Complete |
| 832 | in base | | Reduce Capacity - bike lanes | Blair Road NW | Peabody St. NW | Aspen St. NW | | | 3 | 2 | 2019 2021 |
| 833 | DP21 | | Reduce Capacity - bike lanes | Constitution Avenue | 1st Street NW | Pennsylvania Avenue NW | | | 6 | 4 | 2016 |
| 860 | DS23 | | Reduce Capacity - bike lanes | Harewood Road NW | Rock Creek Church Road NW | North Capitol Street | | | 2 | 1 | 2016 2020 |
| 834 | DS24 | | Reduce Capacity - bike lanes | Klinge Road NW | Adams Mill Road NW | Porter Street NW | | | 4 | 2 | 2016- Complete |
| 836 | DS25 | | Reduce Capacity - bike lanes | Piney Branch Road NW | Georgia Avenue NW | Underwood Street NE | | | 4 | 2 | 2018- Complete |

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**2020 Amendment to VISUALIZE 2045 AIR QUALITY CONFORMITY NETWORK INPUTS
(highway)**

DRAFT 7/15/2019

| Con ID | Project ID | Agency ID | Improvement | Facility | From | To | Facility | | Lanes | | Completion Date |
|--------|------------|-----------|--------------------------------|---------------------|--|-------------------------|----------|----|-------|-----|--------------------------|
| | | | | | | | Fr | To | Fr | To | |
| 944 | DP32 | | Reduce Capacity - bike lanes | 17th Street NW | New Hampshire Avenue | Massachusetts Avenue NW | 3 | 3 | 2 | 1 | 2018 2020 |
| 945 | DP33 | | Reduce Capacity - bike lanes | 17th Street | Massachusetts Avenue NW | K Street | 3 | 3 | 6 | 4 | 2018 Complete |
| 946 | DP34 | | Reduce Capacity - bike lanes | K Street NW | 3rd Street NW 7th Street NW | 1st Street NE | | | 6 | 4 | 2018 2020 |
| 947 | DP35 | | Reduce Capacity - bike lanes | Pennsylvania Ave | 2nd Street SE | 14th Street SE | 2 | 2 | 6 | 4 | 2019 2020 |
| 948 | DP36 | | Reduce Capacity - bike lanes | Pennsylvania Ave SE | 14th Street SE | Barney Circle | | | 8 | 6 | 2019 2020 |
| 949 | DP37 | | Reduce Capacity - bike lanes | Irving Street NE/NW | Michigan Avenue NE | Warder Street NW | | | 6 | 4 | 2019 2020 |
| 1013 | | | Reduce Capacity - bike lanes | 9th St NW | Massachusetts Ave | Florida Ave | | | 4 | 2 | 2019 |
| 1012 | | | Reduce Capacity - bike lanes | 9th St NW | Constitution Ave | Massachusetts Ave | | | 6/4 | 4/2 | 2019 |
| 1010 | | | Reduce Capacity - bike lanes | Nebraska Ave NW | New Mexico Ave | Loughboro Road | | | 4 | 3 | 2020 |
| 1009 | | | Reduce Capacity - bike lanes | Pennsylvania Ave SE | 2nd St | 17th St | | | 8 | 6 | 2020 |
| 1008 | | | Reduce Capacity - bike lanes | Dalecarlia Pkwy NW | Loughboro Road | Westmoreland Circle | | | 4 | 2 | 2020 |
| 1007 | | | Reduce Capacity - bike lanes | K St NE | 1st St | 8th St | | | 3 | 2 | 2019 |
| 1006 | | | Reduce Capacity - bike lanes | Mount Olivet Rd NE | Brentwood | West Virginia Ave | | | 4 | 3 | 2020 |
| 1005 | | | Reduce Capacity - bike lanes | M St SE | Half St | 11th St | | | 6 | 5 | 2020 |
| 1004 | | | Reduce Capacity - bike lanes | Florida Ave NE | West Virginia Ave | 14th St | | | 3 | 2 | 2019 |
| 1003 | | | Reduce Capacity - bike lanes | Florida Ave NE | 2nd ST | West Virginia Ave | | | 6 | 4 | 2019 |
| 839 | DP23 | | Reduce Capacity - Bus Priority | 16th Street NW | Arkansas Avenue NW | Columbia Road NW | | | 6 | 4 | 2021 2020 |
| 840 | DP24 | | Reduce Capacity - Bus Priority | 16th Street NW | Columbia Road NW | W Street NW | | | 5 | 4 | 2021 2020 |
| 841 | DP25 | | Reduce Capacity - Streetcar | H Street NE/NW | 3rd Street NE | New Jersey Ave NW | | | 6 | 4 | 2022 2030 |

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**2020 Amendment to VISUALIZE 2045 AIR QUALITY CONFORMITY NETWORK INPUTS
(highway)**

DRAFT 7/15/2019

| Con ID | Project ID | Agency ID | Improvement | Facility | From | To | Facility | | Lanes | | Completion Date |
|--------|------------|-----------|------------------------------|----------------------|----------------------|---------------------|----------|----|---------------|-------------------|-----------------|
| | | | | | | | Fr | To | Fr | To | |
| 842 | DS26 | | Reduce Capacity - Streetcar | New Jersey Avenue NW | H St NW | K Street NW | | | 3 lanes 1-way | 1 lane each 2-way | 2022 2030 |
| 844 | DP26 | | Reduce Capacity - Streetcar | K Street NW | New Jersey Avenue NW | 7th Street NW | | | 3 | 2 | 2022 2030 |
| 845 | DP27 | | Reduce Capacity - Transitway | K Street NW | 9th Street NW | 12th St NW | | | 4 | 2 | 2022 2021 |
| 846 | DP28 | | Reduce Capacity - Transitway | K Street NW | 12th St NW | 21st St NW | | | 6 | 4 | 2022 2021 |
| 847 | DP29 | | Reduce Capacity - Streetcar | K Street NW | 21st St NW | 25th Street NW | | | 4 | 2 | 2022 2030 |
| 848 | DP30 | | Reduce Capacity - Streetcar | K Street NW | 25th Street NW | 29th Street NW | | | 6/4 | 4 | 2022 2030 |
| 849 | DP31 | | Reduce Capacity - Streetcar | K Street NW | 29th Street NW | Wisconsin Avenue NW | | | 4 | 2 | 2022 2030 |

MDOT

Interstate

| | | | | | | | | | | | |
|-----|---------|--|-----------|---|---|---|---|---|--|--|-----------|
| 952 | MI2TSB6 | | Construct | I270 southbound auxiliary lane (innovative congestion management) | South of Shady Grove Rd local slip ramp | South of Shady Grove Rd express lanes slip ramp | 1 | 1 | | | 2019 2020 |
|-----|---------|--|-----------|---|---|---|---|---|--|--|-----------|

Primary

| | | | | | | | | | | | |
|-----|-------|--------|-----------------------|---|---|----------------|-----|-----|-----|-----|-----------|
| 139 | MP10A | PG2531 | Reconstruct | US 1 | College Avenue | MD 193 | 2 | 2 | 4 | 4 | 2021 2023 |
| 358 | MP15 | FR5711 | Construct | US 15 Catoctin Mountain Highway-Interchange | at Monocacy Blvd./Christophers Crossing | | 2 5 | 2 5 | 6 4 | 6 4 | 2018 2019 |
| 391 | FP2A | FR3881 | Widen-Construct/Widen | MD 85 Buckeystown Pike | Crestwood Drive/Shockley Drive | Spectrum Drive | 2 | 2 | 4 | 6 | 2021 2022 |
| 353 | NRS | PG7001 | Upgrade | MD 210 | at Kerby Hill Road/Livingston Road | | 2 5 | 5 | 6 | 6 | 2020 2021 |

Secondary

| | | | | | | | | | | | |
|-----|-------|--------|-----------------|--------|---|--|---|---|--------|---|-----------|
| 924 | MS36A | FR5491 | Construct/Widen | MD 180 | I-70 (west junction)- Greenfield Drive | Greenfield Drive I 70 (west junction) | 4 | 4 | 2 | 4 | 2030 |
| 857 | MS36B | FR6781 | Construct/Widen | MD 180 | 600 ft north of I-70 I 70 (west junction) | Structure 10140 Ballenger Center Drive | 4 | 4 | 2- 2/4 | 4 | 2020 2021 |

Frederick County

Secondary

NOTE: Shaded areas represent changes from Visualize 2045

**2020 Amendment to VISUALIZE 2045 AIR QUALITY CONFORMITY NETWORK INPUTS
(highway)**

DRAFT 7/15/2019

| Con ID | Project ID | Agency ID | Improvement | Facility | From | To | Facility | | Lanes | | Completion Date | |
|-------------------------------|------------------|---------------|------------------------------|--|--|------------------------|----------|----|---------------------------------------|--|-----------------|----------------|
| | | | | | | | Fr | To | Fr | To | | |
| 648 | MS36C | FR5491 | Widen/Upgrade | MD 180 Ballenger Creek Pike | Greenfield Drive Ballenger Center Drive | Corporate Drive | 4 | 3 | 4 | 2 | 4 | 2030 2020 |
| 993 | | | Widen/Upgrade | Christopher's Crossing | Whittier Drive | Poole Jones Road | 3 | 2 | 2 | 4 | | 2024 |
| 880 | FS3 | | Expansion | Christopher's Crossing | Walter Martz Road | Thomas Johnson Drive | 3 | 3 | 0 to 2 | 4 | | 2021 2020 |
| 879 | NRS | | Construct | Christopher's Crossing | Shookstown Road | Rocky Springs Road | 3 | 3 | 0 | 4 | | 2020 2026 |
| 651 | FS2a | | Widen | Monocacy Boulevard | Schifferstadt Boulevard | Gas House Pike | 3 | 2 | 3 | 2 | 4 | 2019 |
| 691 | | F3 | Study Construct | Spectrum Drive | Technology Way | MD 85 Buckeystown Pike | 0 | 4 | 0 | 2 | | Not Coded-2030 |
| Prince George's County | | | | | | | | | | | | |
| Secondary | | | | | | | | | | | | |
| | PGS40b | | Reduce Capacity - bike lanes | Lottsford Road | MD 202 (Largo Rd.) | Largo Dr. West | 3 | 3 | 6 | 4 | | 2020 |
| VDOT | | | | | | | | | | | | |
| Federal Lands | | | | | | | | | | | | |
| 243 | VP1A | VP1A - 103073 | Widen | US 1 Jefferson Davis Highway | Telegraph Road | VA 235 South | 2 | 2 | 4 | 6 | | 2016-COMplete |
| Interstate | | | | | | | | | | | | |
| 769 | I66R17 I66R18 | | Revise Operations | I-66 Express Lanes Interchange Ramps | Existing reversible HOV ramp converted to HOT EB on ramp only, 24 hrs/day; Construct new flyover ramp for HOT WB off ramp from I-66 Express Lanes, operating 24 hrs/day The existing reversible HOV ramp at Stringfellow Road will be expanded and converted to Express Lanes ramps providing access to and from the east using the Express Lanes. The new ramps will allow two-way traffic to and from the Express Lanes toward the Beltway 24 hours a day. | @ Stringfellow Road | 1 | 1 | Bus / HOV-2 Reversible by time of day | Bus / HOV-3 / HOT both directions 24 hrs / day | | 2022 |
| | | | Remove | I-395 HOV/HOT SB Slip Ramp to I-395 main lanes | Just south of Eads St | | 1 | 0 | 1 | 0 | | 2019 |
| 270 | VI2AC | | Reconstruct | I 95 Interchange | VA 613 Van Dorn Street | | 1 | 1 | | | | 2015 2030 |

NOTE: Shaded areas represent changes from Visualize 2045

**2020 Amendment to VISUALIZE 2045 AIR QUALITY CONFORMITY NETWORK INPUTS
(highway)**

DRAFT 7/15/2019

| Con ID | Project ID | Agency ID | Improvement | Facility | From | To | Facility | | Lanes | | Completion Date |
|----------------|------------|-----------|-----------------|---|--|--|----------|----|-------|----|-------------------|
| | | | | | | | Fr | To | Fr | To | |
| 969 | VI2X | | Construct | I-95 Auxiliary Lane SB | VA 123 | VA 294 | 1 | 1 | 0 | 1 | 2028 2022 |
| 1011 | | | Construct | I-95 Opitz Drive Reversible Ramp | I-95 Express Lanes at Opitz Drive | Opitz Drive | 1 | 1 | 0 | 1 | 2022 |
| 999 | | | Construct | I-495 Express Lanes On-Ramp | Dulles Connector Road WB | I-495 Express Lanes NB | 0 | 1 | 0 | 1 | 2025 |
| 1000 | | | Construct | I-495 Express Lanes (Shoulder Lane) – NB DIRECTION PEAK PERIODS ONLY | Dulles Connector WB On-Ramp | GW Parkway Off-Ramp | 0 | 1 | 0 | 1 | 2025 |
| 1001 | | | Construct | I-495 NB Exchange Ramp | Interstate Ramp | I-495 NB GP Lanes at Dulles Toll Road | 0 | 1 | 0 | 1 | 2045 |
| 1002 | | | Construct | I-495 SB Exchange Ramp | Interstate Ramp | I-495 SB Express Lanes at Dulles Toll Road | 0 | 1 | 0 | 1 | 2045 |
| Primary | | | | | | | | | | | |
| 633 | NRS | 100938 | Reconstruct | US 1 Richmond Highway | at VA 123 Gordon Boulevard (Interchange) | | | | | | 2025 2028 |
| 626 | NRS | 82135 | Construct | VA 7 Leesburg Pike | Bridge over Dulles Toll Road | | 2 | 2 | 4 | 6 | 2030- Complete |
| 628 | VP2Lb | | Widen | VA 7 Leesburg Pike | VA 123 Chain Bridge Road | I 495 Capital Beltway | 2 | 2 | 6 | 8 | 2021 2030 |
| 87 | VP2N | | Widen | VA 7 Leesburg Pike | I 495 | I 66 | 2 | 2 | 4 | 6 | 2021 2030 |
| 347 | VP2B | TBD | Widen | VA 7 | Seven Corners | Bailey's Crossroads | 2 | 2 | 4 | 6 | 2025 2030 |
| 1022 | | | Study | VA 7 Interchange | VA 123 Dolly Madison Road | | | | | | 2030 |
| 1023 | | | Construct | US 15 Bypass / Battlefield Parkway Interchange | | | | | | | |
| 737 | VP6N | 108720 | Widen | VA 28 Centreville Road | VA 898 Old Centreville Road US 29 | Prince William County Line | 2 | 2 | 4 | 6 | 2025 2023 |
| 995 | | | Construct | VA 28 Manassas Bypass | VA 234 Sudley Road | VA 28 Centreville Road | | | 0 | 4 | 2025 |
| 622 | VP7AG | | Widen | US 29 (add NB lane) | Legato Road | Shirley Gate/Waples Mill Rd. | 2 | 2 | 2 | 3 | 2017- Complete |
| 997 | | | Widen | VA 55 | Route 29 | Town of Haymarket | | | 2 | 4 | 2028 |
| 235 | VP10H | | Widen | VA 123 Ox Road | Hooes Rd. | Fairfax Co. Parkway | 2 | 2 | 4 | 6 | 2025 2030 |
| 337 | VP10F | 1784 | Widen | VA 123 Ox Road | Fairfax Co. Parkway | Burke Center Parkway | 2 | 2 | 4 | 6 | 2025 2030 |
| 300 | VP10R | | Widen | VA 123 | Burke Center Parkway | Braddock Road | 2 | 2 | 4 | 6 | 2025 2030 |
| 95 | VP10S | | Widen | VA 123 | VA 677 Old Courthouse Road | VA 7 Leesburg Pike | | | 4 | 6 | 2025 2030 |
| 595 | VP10T | | Widen | VA 123 Chain Bridge Road | VA 7 Leesburg Pike | I 495 Capital Beltway | 2 | 2 | 6 | 8 | 2025 2030 |
| 1016 | | | Upgrade | VA 123 | I-495 Capital Beltway | VA 267 Dulles Access Road | 3 | 3 | 6 | 6 | 2030 |
| 1015 | | | Widen | VA 123 | VA 267 Dulles Access Road | VA 634 Great Falls Street | 2 | 2 | 4 | 6 | 2030 |
| 1024 | | 111725 | Widen/Construct | VA 286 Fairfax County Parkway Interchange | VA 654 Pope's Head Road | | 2 | 2 | 4 | 6 | 2025 |
| 728 | | | Study Widen | VA 286 Fairfax County Parkway | US 29 Lee Highway | Rolling Road | 2 | 2 | 4 | 6 | 2030 |
| 104 | VSF26a | | Construct | VA 289 Franconia-Springfield Parkway HOV Interchange | Neuman Street | | 1 | 1 | | | 2025-2035 |
| | | | Construct | VA 234 Bypass Interchange | Clover Hill Road | | | | | | 2026 |
| 1028 | | | Construct | VA 294 Prince William Parkway Intersection Improvements | VA 641 Old Bridge Road | | | | | | 2028 |
| 1027 | | | Construct | VA 294 Prince William Parkway Interchange | VA 640 Minnieville Road | | | | | | 2028 |

NOTE: Shaded areas represent changes from Visualize 2045

**2020 Amendment to VISUALIZE 2045 AIR QUALITY CONFORMITY NETWORK INPUTS
(highway)**

DRAFT 7/15/2019

| Con ID | Project ID | Agency ID | Improvement | Facility | From | To | Facility | | Lanes | | Completion Date |
|------------------------------|------------|---------------|------------------|--|--|--|----------|----------|----------------|----------------|----------------------|
| | | | | | | | Fr | To | Fr | To | |
| 106 | VP15CD | | Construct | Collector-Distributor Rd Westbound (parallels Dulles Toll Rd.) | Spring Hill Rd. Route 7 Leesburg Pike | VA 828 Wiehle Avenue | 0 | | 0 | 1 | 2037 2035 |
| 107 | VP15CD | | Construct | Collector-Distributor Rd Eastbound (parallels Dulles Toll Rd.) | VA 828 Wiehle Avenue | Spring Hill Rd. Route 7 Leesburg Pike | 0 | | 0 | 1 | 2036 2035 |
| | | | Construct | Collector-Distributor Rd Westbound (parallels Dulles Toll Rd.) | Route 7 Leesburg Pike | Spring Hill Rd. | | | 0 | ± 2 | 2037 2035 |
| | | | Construct | Collector-Distributor Rd Eastbound (parallels Dulles Toll Rd.) | Spring Hill Rd. | Route 7 Leesburg Pike | | | 0 | ± 2 | 2036 2035 |
| Secondary | | | | | | | | | | | |
| Arlington County | | | | | | | | | | | |
| | AR31 | | Demolish | South Clark Street | 12th Street South | 18th 20th Street South | 4 | 0 | 2 | 0 | 2019 |
| Fairfax County | | | | | | | | | | | |
| 241 | VSF4f | VSF4f | Widen | VA 611 Furnace Road | VA 123 Ox Road | VA 642 Lorton Road | 3 | 3 | 2 | 4 | 2016-COMplete |
| 586 | VSF10E | 102905 | Widen | VA 638 Rolling Road | Rt 5297 DeLong Drive | Fullerton Drive | 3 | 3 | 2 | 4 | 2022 2035 |
| 217 | FFX11a | | Widen | VA 645 Stringfellow Road | US 50 | VA 286 Fairfax County Parkway | 3 | 3 | 2 | 4 | 2020 2030 |
| 688 | VSF17b | | Construct | VA 655 Shirley Gate Road | VA 286 Fairfax County Parkway | VA 620 Braddock Road | 0 | 3 | 0 | 4 | 2025 2030 |
| 724 | VSF46 | | Construct | VA 2677 Frontier Drive | Franconia-Springfield Transportation Center | VA 789 Loisdale Road | 0 | 4 | 0 4 | 2 4 | 2024 |
| 1017 | | | Construct | Town Center Parkway Underpass of Dulles Toll Road | VA 5320 Sunrise Valley Dr. | VA 675 Sunset Hills Road | 0 | 4 | 0 | 4 | 2030 |
| Loudoun County | | | | | | | | | | | |
| 330 | VSL1B | 97529, 105064 | Widen/Upgrade | VA 606/607 Old Ox Rd/Loudoun County Parkway | VA 634 Moran Rd | VA 621 Evergreen Mills Rd | 4 | 3 | 2 | 4 | 2017 2018 |
| 564 | | | Construct | Glaseock Road Dulles West Blvd. Phase I | Dulles Landing Drive | Hutcheson Farm Drive | 0 | 4 | 0 | 4 | 2023 2022 |
| 565 | | | Construct | Glaseock Road Dulles West Blvd. Phase II | Hutcheson Farm Drive | Arcola Blvd | 0 | 4 | 0 | 4 | 2023 2022 |
| 1031 | | | Construct | Glaseock Road Dulles West Blvd. Phase III | Arcola Blvd | Northstar Dr. | 0 | 4 | 0 | 4 | 2023 2025 |
| Prince William County | | | | | | | | | | | |
| 996 | | | Widen | VA 621 Devlin Road | Linton Hall Road | Wellington Road | | | 2 | 4 | 2028 |
| 998 | | | Widen | VA 674 Wellington Road | University Boulevard | VA 621 Devlin Road/Balls Ford Road | | | 2 | 4 | 2028 |

NOTE: Shaded areas represent changes from Visualize 2045

ATTACHMENT B

Air Quality Conformity Scope of Work



July 3, 2019

**AIR QUALITY CONFORMITY ANALYSIS:
FY 2021-2024 TIP & 2020 Amendment to the Visualize 2045 Plan
DRAFT SCOPE OF WORK**

I. INTRODUCTION

The FY2021-2024 Transportation Improvement Program (TIP) and 2020 Amendment to the Visualize 2045 Plan are scheduled to be finalized at the March 18, 2020 Transportation Planning Board (TPB) meeting. This work effort addresses requirements associated with attainment of the ozone standard (volatile organic compounds (VOC) and nitrogen oxides (NOx) as ozone precursor pollutants).

The amended plan must meet air quality conformity regulations: (1) as originally published by the Environmental Protection Agency (EPA) in the November 24, 1993 Federal Register, and (2) as subsequently amended, most recently on March 14, 2012, and (3) as detailed in periodic FHWA / FTA and EPA guidance. These regulations specify both technical criteria and consultation procedures to follow in performing the assessment.

This scope of work provides a context in which to perform the conformity analyses and presents an outline of the work tasks required to address all regulations currently applicable.

II. FEDERAL REQUIREMENTS

As described in the 1990 Clean Air Act Amendments, conformity is demonstrated if transportation plans and programs:

1. Are consistent with most recent estimates of mobile source emissions budgets
2. Provide expeditious implementation of Transportation Control Measures (TCMs)
3. Contribute to annual emissions reductions

The federal requirements governing air quality conformity compliance are contained in §93.110 through §93.119 of the Transportation Conformity Regulations (printed April 2012), as follows:

| CONFORMITY CRITERIA & PROCEDURES | |
|---|---|
| All Actions at all times | |
| §93.110 | Latest Planning Assumptions |
| §93.111 | Latest Emissions Model |
| §93.112 | Consultation |
| §93.113 | TCMs |
| §93.114 | Currently conforming Plan and TIP |
| §93.115 | Project from a conforming Plan and TIP |
| §93.116 | CO, PM10 and PM2.5 hot spots |
| §93.117 | PM10 and PM2.5 Control Measures |
| §93.118 and/or §93.119 | Emissions Budget and/or Interim Emissions |

§ 93.110 Criteria and procedures: Latest planning assumptions - The conformity determination must be based upon the most recent planning assumptions in force at the time of the conformity determination.

§ 93.111 Criteria and procedures: Latest emissions model - The conformity determination must be based on the latest emission estimation model available.

§ 93.112 Criteria and procedures: Consultation – The Conformity must be determined according to the consultation procedures in this subpart and in the applicable implementation plan, and according to the public involvement procedures established in compliance with 23 CFR part 450.

§ 93.113 Criteria and procedures: Timely implementation of TCMs - The transportation plan, TIP, or any FHWA/FTA project which is not from a conforming plan and TIP must provide for the timely implementation of TCMs from the applicable implementation plan.

§93.114 Criteria and procedures: Currently conforming transportation plan and TIP - There must be a currently conforming transportation plan and currently conforming TIP at the time of project approval.

§93.115 Criteria and procedures: Projects from a plan and TIP - The project must come from a conforming plan and program.

§93.116 Criteria and procedures: Localized CO, PM10, and PM2.5 violations (hot spots) -The FHWA/FTA project must not cause or contribute to any new localized CO, PM10, and/or PM2.5 violations or increase the frequency or severity of any existing CO, PM10, and /or PM2.5 violations in CO, PM10, and PM2.5 nonattainment and maintenance areas.

§93.117 Criteria and procedures: Compliance with PM10 and PM2.5 control measures -The FHWA/FTA project must comply with PM10 and PM2.5 control measures in the applicable Implementation Plan.

§93.118 Criteria and procedures: Motor vehicle emissions budget - The transportation plan, TIP, and projects must be consistent with the motor vehicle emissions budget(s).

§93.119 Criteria and procedures: Interim emissions in areas without motor vehicle budgets - The FHWA/FTA project must satisfy the interim emissions test(s).

Assessment Criteria:

Ozone season pollutants will be assessed by comparing the forecast year pollutant levels to the mobile budgets in the 2008 Ozone National Ambient Air Quality Standards (NAAQS) Maintenance Plan. In August 2018 EPA found these budgets adequate for use in conformity analyses, and the budgets were used in the Visualize 2045 conformity analysis. The 2008 Ozone NAAQS Maintenance Plan includes mobile budgets for 2014 (attainment year), 2025 (intermediate year), and 2030 (out year). The 2014 budgets will be used for any analysis year between 2014 and 2024, the 2025 budgets will be used for any analysis year between 2025 and 2029, and the 2030 budgets will be used for any analysis year beyond 2029.

III. POLICY AND TECHNICAL APPROACH

The table below summarizes the key elements of the Policy & Technical Approach:

| | |
|----------------------------|--|
| Pollutants | Ozone Season VOC and NOx |
| Emissions Model | MOVES2014b |
| Conformity Test | <u>Budget Test</u> : Using mobile budgets most recently approved by EPA: 2008 Ozone NAAQS Maintenance Plan mobile budgets found adequate by EPA in August, 2018. |
| Vehicle Fleet Data | December 2016 vehicle registration data for all jurisdictions |
| Geography | 8-hour ozone non-attainment area |
| Network Inputs | Regionally significant projects |
| Land Activity | Cooperative Forecasts Round 9.1a |
| HOV/HOT | <u>VA</u> : All HOV 2+/HOT 2+ facilities become HOV 3+/HOT 3+ in 2020 and beyond except I-66 inside the Beltway, which will convert to HOT3+ when I-66 outside the Beltway opens <u>MD</u> : All HOV facilities remain HOV2+ through 2045 |
| Transit Constraint | NO Metrorail “capacity constraint” (removed with March 2018 passage of annual funding for WMATA agreement) |
| Analysis Years | 2019, 2021, 2025, 2030, 2040, 2045 |
| Modeled Area | 3,722 TAZ System |
| Travel Demand Model | Version 2.3.75 or latest |

IV. CONSULTATION

The TPB adheres to the specifications of the consultation procedures (as outlined in the consultation procedures report adopted by the TPB on May 20, 1998). The TPB will participate in meetings of MWAQC, its Technical Advisory Committee, and its Conformity Subcommittee to discuss the Scope of Work, project inputs, and other elements as needed.

V. WORK TASKS

The work tasks associated with the air quality conformity analysis are as follows:

1. Receive project inputs from programming agencies and organize into conformity documentation listings by:
 - Project type, limits, etc.
 - Phasing with respect to forecast years
 - Transit operating parameters, e.g., schedules, service
2. Update Travel Model Base Transit Service to reflect:
 - Service current to December 2018
 - Fares current to July 1, 2019
3. Update 2016 Vehicle Registration Data (VIN data)
 - Corrections to DC VIN data as provided by the DC Department of Energy and Environment on June 19, 2018
4. Review and Update Land Activity files to reflect Round 9.1a Cooperative Forecasts with respect to:
 - Zonal data files
 - Employment Data Census Adjustment
 - Households by auto ownership, size and income
 - Coordination with agencies outside the MWCOG Cooperative Forecast area (Baltimore Metropolitan Council, Fredericksburg Area Metropolitan Planning Organization, Calvert-St. Mary's Metropolitan Planning Organization, etc.)
 - Exogenous Travel (external, through trips etc.)
5. Prepare forecast year highway, HOV, and transit networks including regionally significant projects, as follows:
 - 2019, 2021, 2025, 2030, 2040, and 2045 highway networks
 - 2019, 2021, 2025, 2030, 2040, and 2045 transit network input files
 - Update highway tolls, as necessary

6. Execute travel demand modeling for years 2019, 2021, 2025, 2030, 2040, and 2045
7. Derive Mobile Emissions Estimates for years 2019, 2021, 2025, 2030, 2040, and 2045 using inputs from the 2008 Ozone NAAQS Maintenance Plan mobile budgets
8. Summarize key inputs and outputs (VMT, mode share, emissions, etc.) of the conformity determination
9. Assess conformity and document results in a report
 - Document methods
 - Draft conformity report
 - Forward to technical committees, policy committees
 - Make available for public and interagency consultation
 - Receive comments
 - Respond to comments and present to TPB for action
 - Finalize report and forward to FHWA, FTA, and EPA

DRAFT

SCHEDULE FOR DEVELOPMENT & ADOPTION FY 2021-2024 TIP & 2020 Amendment to the Visualize 2045 Plan

| | |
|--------------------------|---|
| May 3, 2019 | Technical Committee is briefed on request for TIP and Plan updates; solicitation opens |
| May 31, 2019 | Solicitation closes; all air quality conformity project inputs are due |
| June 7, 2019 | Technical Committee briefed on draft project inputs and draft air quality conformity Scope of Work |
| June 19, 2019 | TPB briefed on draft project inputs and draft air quality conformity Scope of Work |
| June 2019 | TPB staff briefs Metropolitan Washington Air Quality Committee Technical Advisory Committee (MWAQC TAC) on inputs and Scope of Work |
| July 17, 2019 | TPB is asked to approve inputs and draft Scope of Work |
| December 20, 2019 | Financial updates for the FY 2021-2024 TIP are due |
| January 9, 2020 | Public Forum on the FY 2021-2024 TIP |
| January 31, 2020 | Draft FY 2021-2024 TIP, 2020 Amendment to the Visualize 2045 Plan, and air quality conformity analysis are released for 30-day comment period |
| February 7, 2020 | Technical Committee reviews draft TIP, Plan, and conformity analysis |
| February 2020 | TPB staff briefs MWAQC TAC on the draft TIP, Plan, and conformity analysis |
| February 19, 2020 | TPB is briefed on TIP, Plan, and conformity analysis |
| March 1, 2020 | Comment period ends |
| March 18, 2020 | TPB reviews comments and responses to comments, and is presented with the FY 2021-2024 TIP, the 2020 Amendment to the Visualize 2045 Plan, and the air quality conformity analysis for approval |