

Columbia Pike Implementation Team (CPIT) Meeting
October 25, 2011











# **Agenda**

- Introductions / purpose of meeting
- Multimodal project update:
  - Recap
  - Street space design
  - Next Steps
- Pike Transit Initiative update
- Summary









## Recap

- Concept design complete as of last CPIT meeting (April 26, 2011)
- Modifications made due to right-of-way impacts
- Met with Columbia Heights CA (July 11, 2011)
- Received updated survey, mapping, and aerial photos
- VDOT awarded Washington Blvd/Columbia Pike interchange project to design-build contractor
- Multimodal project environmental document approved!
- Moving into development of 50% plans for near-term street space design

Your feedback is requested tonight on near-term design considerations







# Street Space Design – Vision and Goals

• <u>Vision</u>: Near-term implementation of a complete street that achieves an appropriate balance of travel modes and that supports future high-quality, high-frequency transit service

## Goals:

- Build on Street Space Planning Task Force recommendations
- Coordinate with many other on-going efforts
- Complete a multimodal transportation analysis
- Complete necessary environmental studies and NEPA documentation
- Provide a complete street design to meet Arlington, VDOT, and FHWA approvals







# **Complete Street**





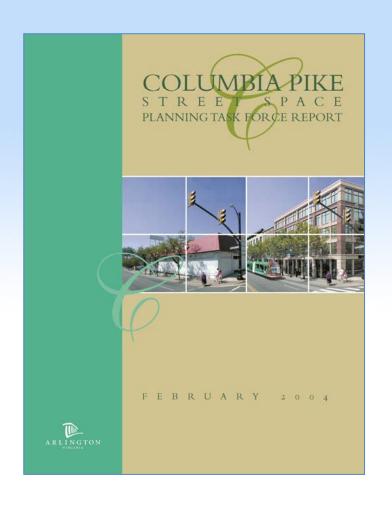
- Designed and operated to enable safe, attractive, and comfortable access and travel for all users:
  - Pedestrians
  - Bicyclists
  - Transit riders
  - Motorists
- More livable, safer, accessible
- Elements:
  - Wider sidewalks
  - Minimized crossing distances
  - Bicycle accommodations
  - Accessibility to transit
  - Public amenities







# **Street Space Design – Objectives**



- Provide interim elements of Street Space
   Planning Task Force recommendations
- Design to meet Arlington, VDOT, and FHWA approvals
- Coordinate with many other on-going design and construction efforts
- Design for all modes
- Attain 56-ft curb face to curb face "cartway" dimension
- Minimize right-of-way impacts







# **Street Design Considerations**

- Balance between pedestrian, bicycle, transit, and vehicle spaces
- 56-ft cross section
  - Include left turn lanes/medians
  - Eliminate right turn lanes and bus pull-outs
- Behind curb line:
  - Wider sidewalks
  - Transit shelters
  - Street trees, planting strips
  - On street parking
  - "Furniture zone"
  - Bicycle accommodations
- Drainage
- Utilities
- Additional ROW

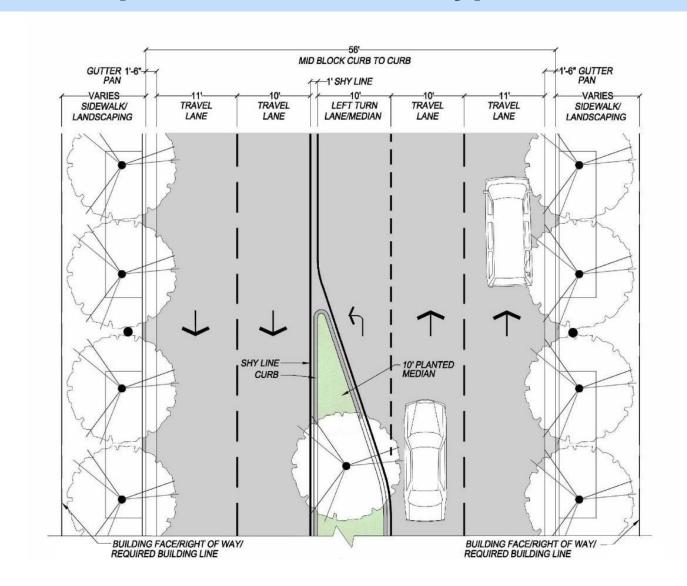








# **Proposed Near-Term Typical Plan**

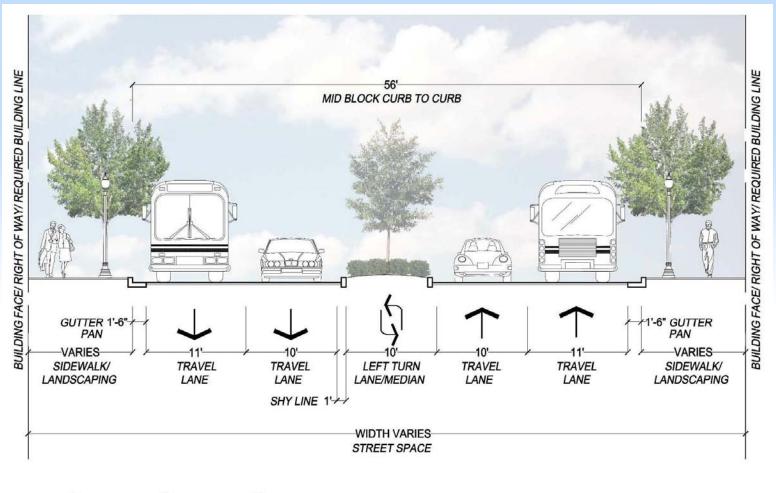








# **Proposed Near-Term Typical Cross Section**











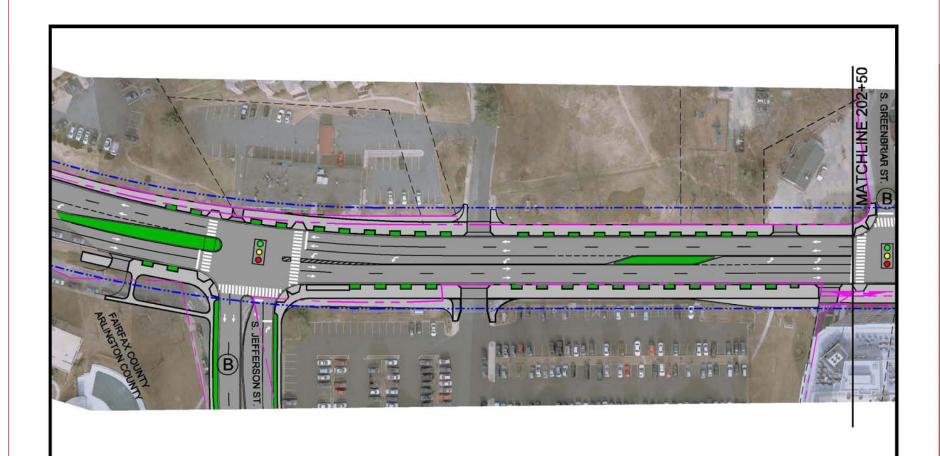
# Design Considerations S. Jefferson St. to S. Frederick St.





- Wider sidewalks
- New traffic signal at S. Frederick St.
- Westbound left turn lane
- Underground utilities





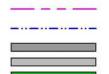


EXISTING SIGNAL SYSTEM TO REMAIN

PROPOSED SIGNAL SYSTEM



FUTURE PROPOSED SUPER STOP (BY OTHERS)



#### LEGEND

EXISTING RIGHT OF WAY/PUBLIC USE EASEMENT

REQUIRED BUILD LINE/FUTURE RIGHT-OF-WAY POST REDEVELOPMENT PROPOSED ROADWAY/DRIVEWAY

PROPOSED SIDEWALK
PROPOSED GREENSPACE



**BUS ROUTE** 



LEFT TURN LANE

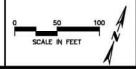


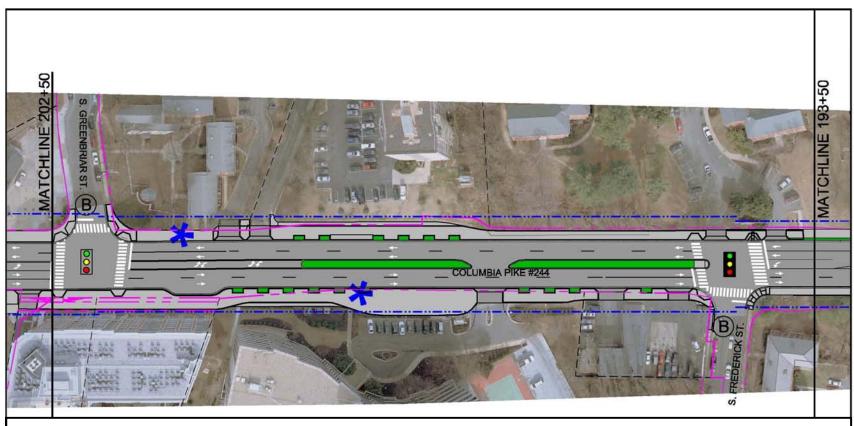
DRIVEWAY ACCESS CLOSURE / CONSOLIDATION





COLUMBIA PIKE MULTIMODAL IMPROVEMENTS STA. 212+00 TO STA. 202+50





Segment: County line/S. Jefferson St. to east of S. Frederick St.

56-ft cross section: ✓ Achieved

Between curbs: Medians, new traffic signal/WB left turn lane at Frederick, driveway

access maintained

Behind curbs: Wider sidewalks both sides, landscaping, on street parking, 10-ft wide

sidewalk (north side, Frederick to Four Mile Run), utilities underground





COLUMBIA PIKE MULTIMODAL IMPROVEMENTS STA. 202+50 TO STA. 193+50







## **Design Considerations**

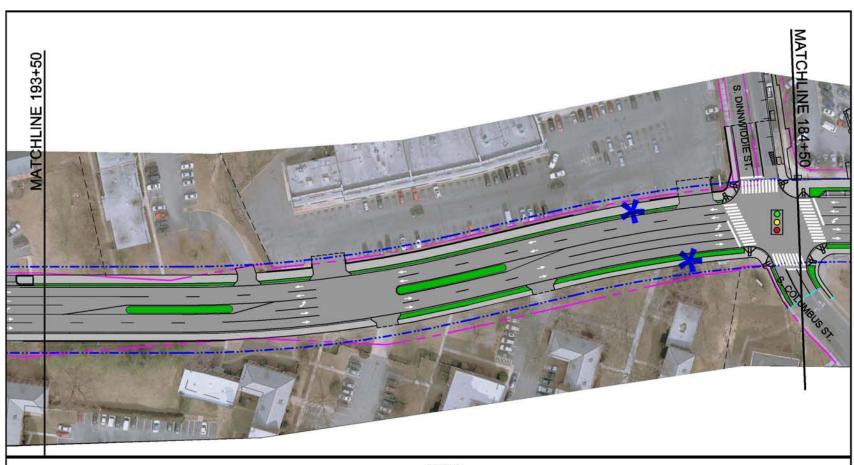
S. Frederick St. to Four Mile Run



- Wider sidewalks
- Medians/left turn lanes
- Roadway profile
- Pavement reconstructed
- Tie-in to Four Mile Run Bridge
- Underground utilities
- Minimal property impacts





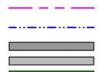




EXISTING SIGNAL SYSTEM TO REMAIN

PROPOSED SIGNAL SYSTEM

**FUTURE PROPOSED** SUPER STOP (BY OTHERS)



#### LEGEND

EXISTING RIGHT OF WAY/PUBLIC USE EASEMENT

REQUIRED BUILD LINE/FUTURE RIGHT-OF-WAY POST REDEVELOPMENT

PROPOSED ROADWAY/DRIVEWAY PROPOSED SIDEWALK

PROPOSED GREENSPACE



**BUS ROUTE** 



LEFT TURN LANE

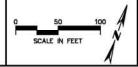


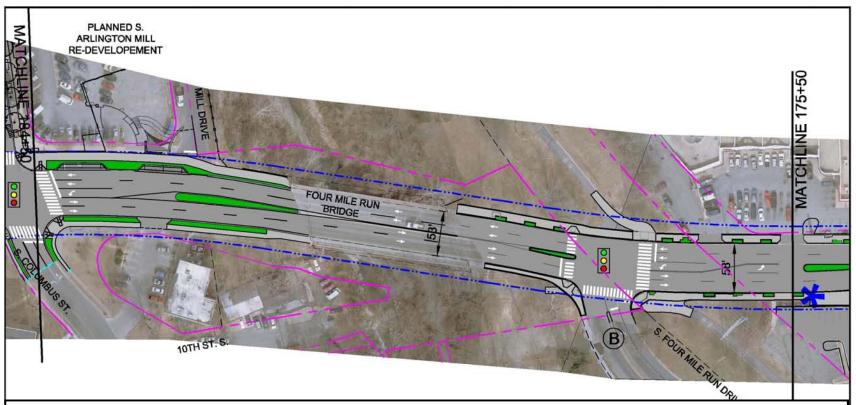
DRIVEWAY ACCESS CLOSURE / CONSOLIDATION





**COLUMBIA PIKE** MULTIMODAL IMPROVEMENTS STA. 193+50 TO STA. 184+50





Segment: East of S. Frederick St. to east of S. Four Mile Run Dr.

56-ft cross section: ✓ Achieved with exception of Four Mile Run Bridge area

Between curbs: Medians, new WB left turn lane at Four Mile Run Dr., driveway access

maintained, no left turns in/out at Arlington Mill Drive (except for

emergency vehicles)

Behind curbs: Wider sidewalk south side, 10-ft wide sidewalk north side (Frederick to

Four Mile Run) landscaping, trail connections, utilities underground





COLUMBIA PIKE MULTIMODAL IMPROVEMENTS STA. 184+50 TO STA. 175+50







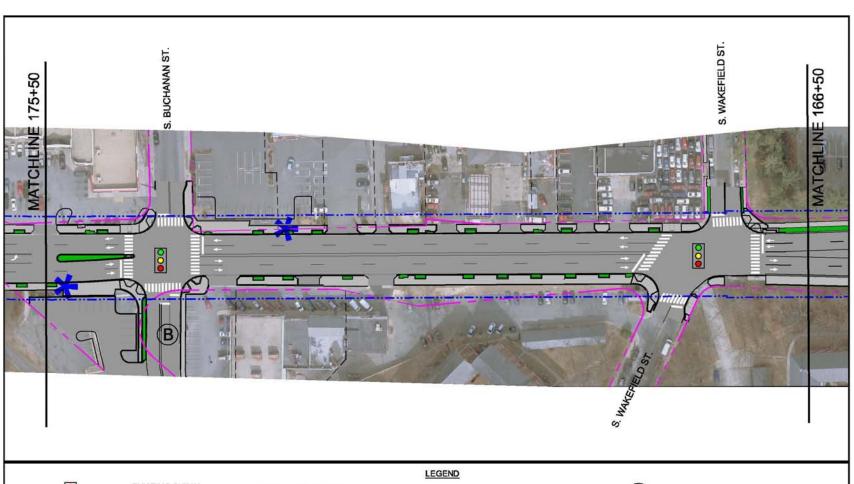
# **Design Considerations** *Four Mile Run to S. Taylor St.*



- Wider sidewalks
- S. Thomas Street realigned
- Left turn lanes
- Reconstructed retaining walls and pavement
- Underground utilities
- Minimal property impacts









EXISTING SIGNAL SYSTEM TO REMAIN

PROPOSED SIGNAL SYSTEM

FUTURE PROPOSED SUPER STOP (BY OTHERS)



EXISTING RIGHT OF WAY/PUBLIC USE EASEMENT

REQUIRED BUILD LINE/FUTURE RIGHT-OF-WAY POST REDEVELOPMENT

PROPOSED ROADWAY/DRIVEWAY PROPOSED SIDEWALK

PROPOSED GREENSPACE



**BUS ROUTE** 



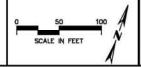
LEFT TURN LANE

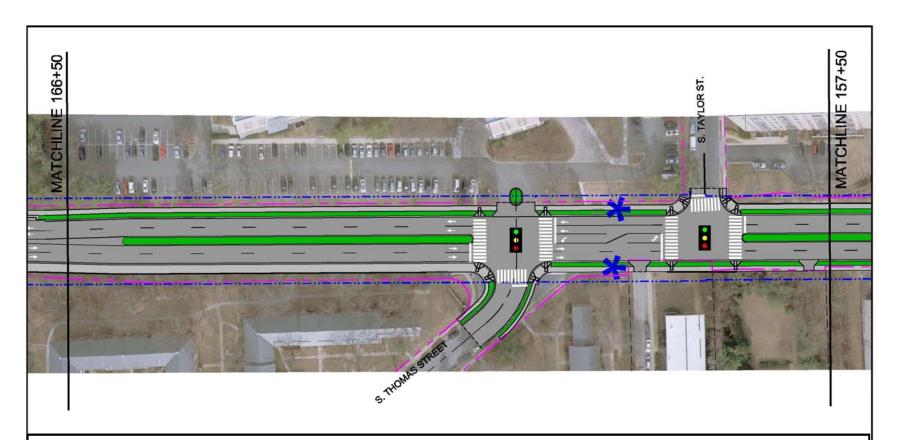
DRIVEWAY ACCESS CLOSURE / CONSOLIDATION





COLUMBIA PIKE MULTIMODAL IMPROVEMENTS STA. 175+50 TO STA. 166+50





Segment: East of S. Four Mile Run Dr. to east of S. Taylor St.

56-ft cross section: Achieved east of S. Wakefield St.

Between curbs: Medians, new left turn lanes at Thomas & Taylor, full access maintained

for most driveways, left turns in/out eliminated at one driveway

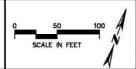
Behind curbs: Sidewalks, landscaping, realignment of S. Thomas Street, utilities

underground, retaining wall(s) rebuilt





COLUMBIA PIKE MULTIMODAL IMPROVEMENTS STA. 166+50 TO STA. 157+50







## **Design Considerations**

S. Taylor St. to east of S. Quincy St.

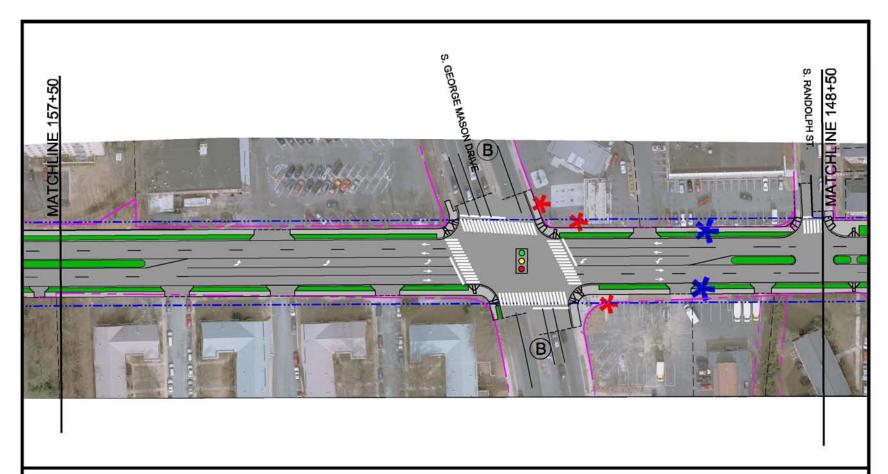


- Wider sidewalks
- Right turn lane eliminated
- Left turn lanes
- Improved intersection grades
- Reconstructed pavement
- Underground utilities
- Minimal property impacts







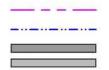




EXISTING SIGNAL SYSTEM TO REMAIN

PROPOSED SIGNAL SYSTEM

FUTURE PROPOSED SUPER STOP (BY OTHERS)



#### LEGEND

EXISTING RIGHT OF WAY/PUBLIC USE EASEMENT

REQUIRED BUILD LINE/FUTURE RIGHT-OF-WAY POST REDEVELOPMENT

PROPOSED ROADWAY/DRIVEWAY
PROPOSED SIDEWALK

PROPOSED GREENSPACE



**BUS ROUTE** 



LEFT TURN LANE

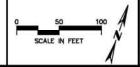


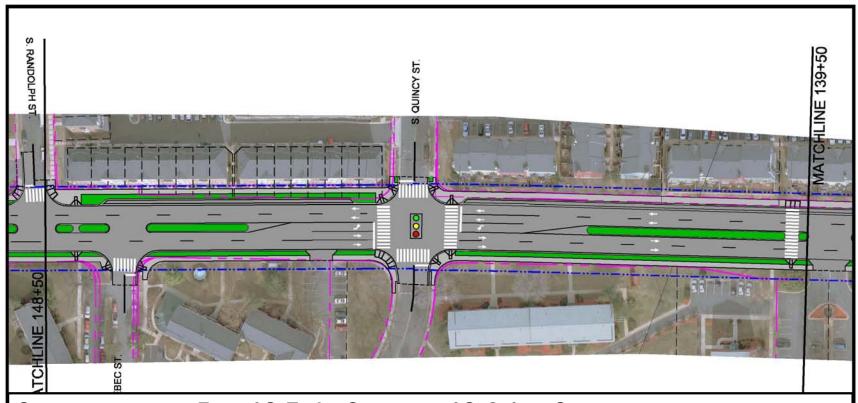
DRIVEWAY ACCESS CLOSURE / CONSOLIDATION





COLUMBIA PIKE MULTIMODAL IMPROVEMENTS STA. 157+50 TO STA. 148+50





Segment: East of S. Taylor St. to east of S. Quincy St.

56-ft cross section: ✓ Achieved

Between curbs: Medians, pedestrian refuges, EB right turn eliminated at S. Glebe Road,

new left turn lanes at Quincy, full access maintained for side streets and

most driveways

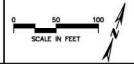
Behind curbs: Sidewalks, landscaping, on street parking, elimination of 3 driveways,

utilities underground





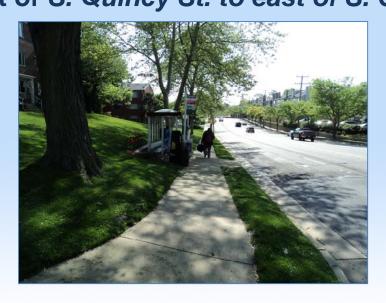
COLUMBIA PIKE MULTIMODAL IMPROVEMENTS STA. 148+50 TO STA. 139+50







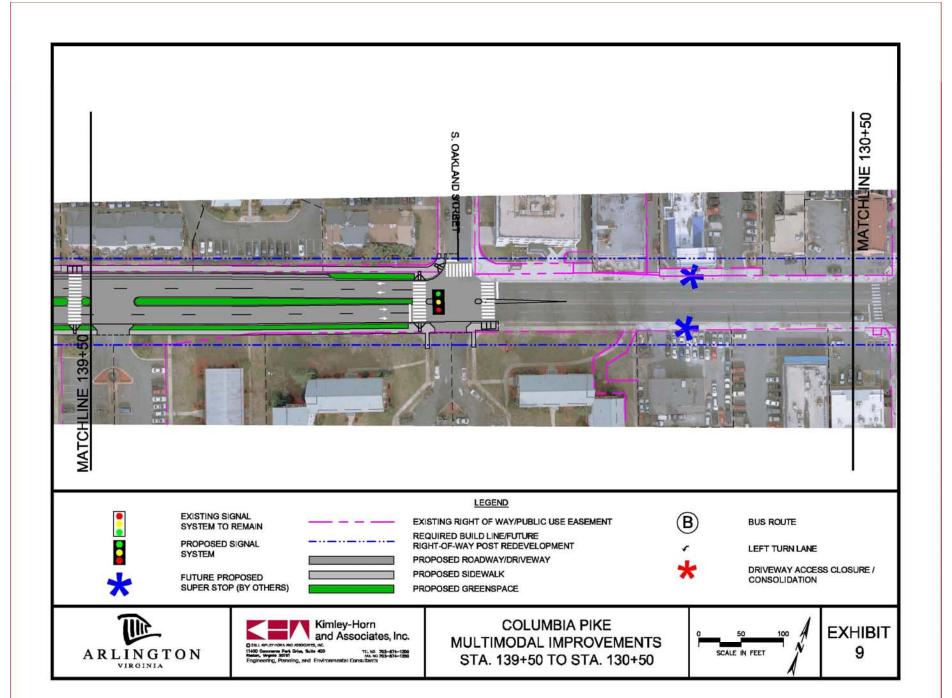
# Design Considerations East of S. Quincy St. to east of S. Glebe Rd.

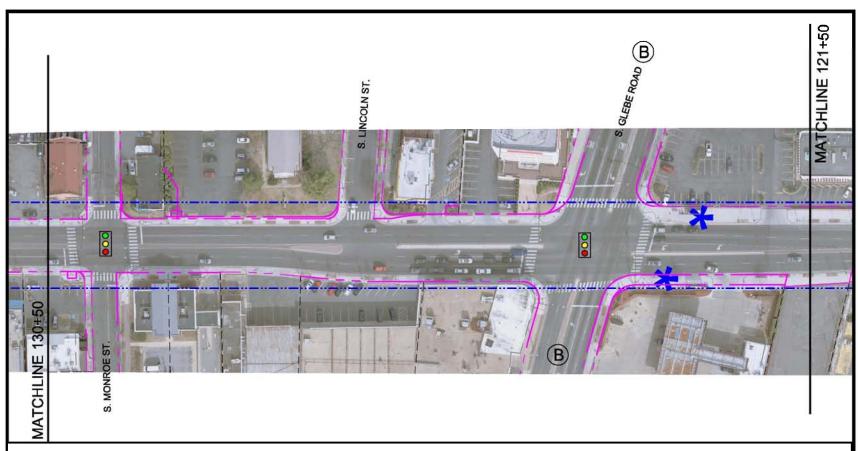




- Wider sidewalks
- Medians
- New traffic signal at S. Oakland St.
- Reconstructed pavement
- Underground utilities
- Minimal property impacts







Segment: East S. Quincy St. to east of S. Glebe Road

56-ft cross section: Achieved to west of Oakland

Between curbs: Medians, pedestrian refuges, new traffic signal at S. Oakland St., access

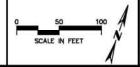
maintained for driveways

Behind curbs: Sidewalks, landscaping, on street parking





COLUMBIA PIKE MULTIMODAL IMPROVEMENTS STA. 130+50 TO STA. 121+50







# Design Considerations East of S. Glebe Rd. to S. Cleveland St.

- Wider sidewalks
- Medians
- Left turn protected phases
- Bulb outs on S. Edgewood St.
- Pavement reconstructed
- Minimal property impacts









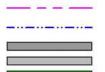




EXISTING SIGNAL SYSTEM TO REMAIN

PROPOSED SIGNAL SYSTEM

FUTURE PROPOSED SUPER STOP (BY OTHERS)



#### LEGEND

EXISTING RIGHT OF WAY/PUBLIC USE EASEMENT

REQUIRED BUILD LINE/FUTURE RIGHT-OF-WAY POST REDEVELOPMENT

PROPOSED ROADWAY/DRIVEWAY
PROPOSED SIDEWALK

PROPOSED GREENSPACE



**BUS ROUTE** 



LEFT TURN LANE

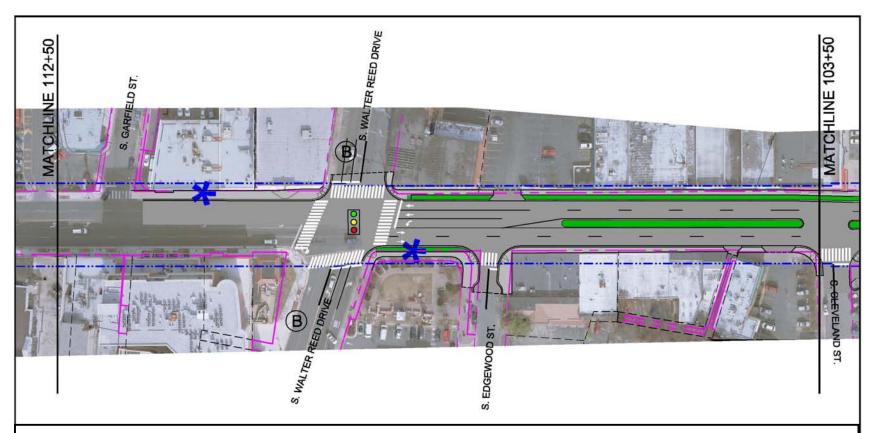
DRIVEWAY ACCESS CLOSURE / CONSOLIDATION





COLUMBIA PIKE MULTIMODAL IMPROVEMENTS STA. 121+50 TO STA. 112+50





Segment: East of S. Glebe Rd. to S. Cleveland St.

56-ft cross section: Achieved east of Garfield

Between curbs: Median in Town Center area, full access maintained for most driveways,

left turn phase for all approaches at Walter Reed/Col Pike intersection,

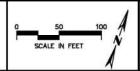
bulb outs on Edgewood St.

Behind curbs: Wider sidewalks, landscaping





COLUMBIA PIKE MULTIMODAL IMPROVEMENTS STA. 112+50 TO STA. 103+50







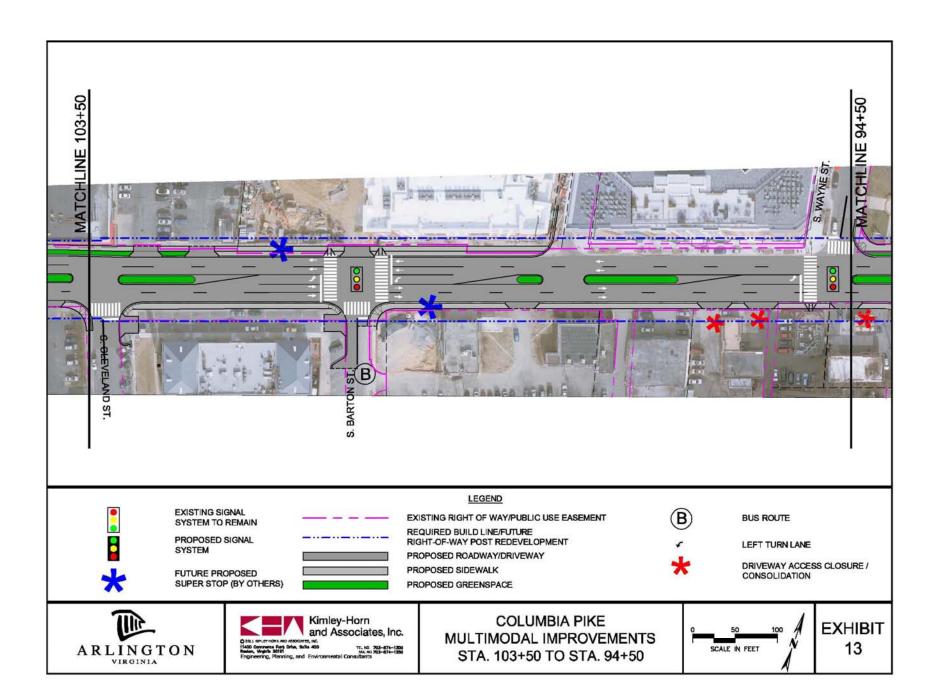
# Design Considerations S. Cleveland St. to S. Courthouse Rd.

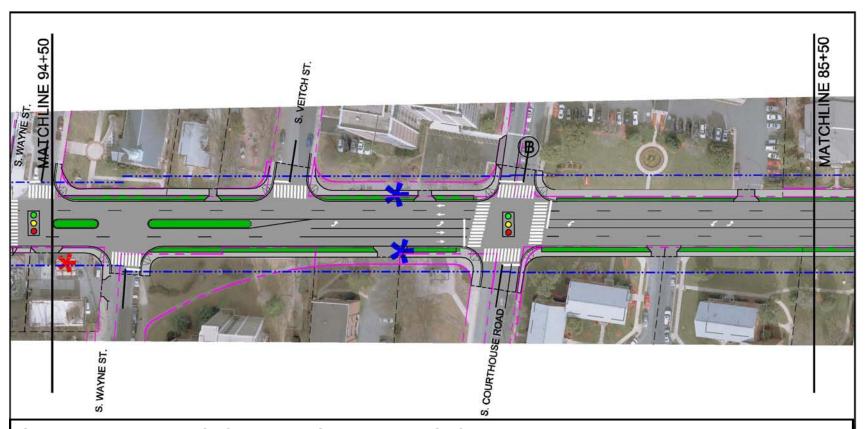


- Wider sidewalks
- Medians / two-way left turn lanes
- Pavement reconstructed
- Left turn protected phases
- Bulb outs on S. Edgewood St.
- Pavement reconstructed
- Minimal property impacts









Segment: S. Cleveland St. to east of S. Courthouse Road

56-ft cross section: ✓ Achieved

Between curbs: Medians, pedestrian refuges, full access maintained for most driveways,

consolidation of some driveways

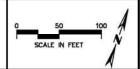
Behind curbs: Sidewalks, landscaping, 10-ft wide sidewalk (north side, S. Courthouse

Rd. to S. Quinn St.)





COLUMBIA PIKE MULTIMODAL IMPROVEMENTS STA. 94+50 TO STA. 85+50







## **Design Considerations**

S. Courthouse Rd. to Washington Blvd. Interchange

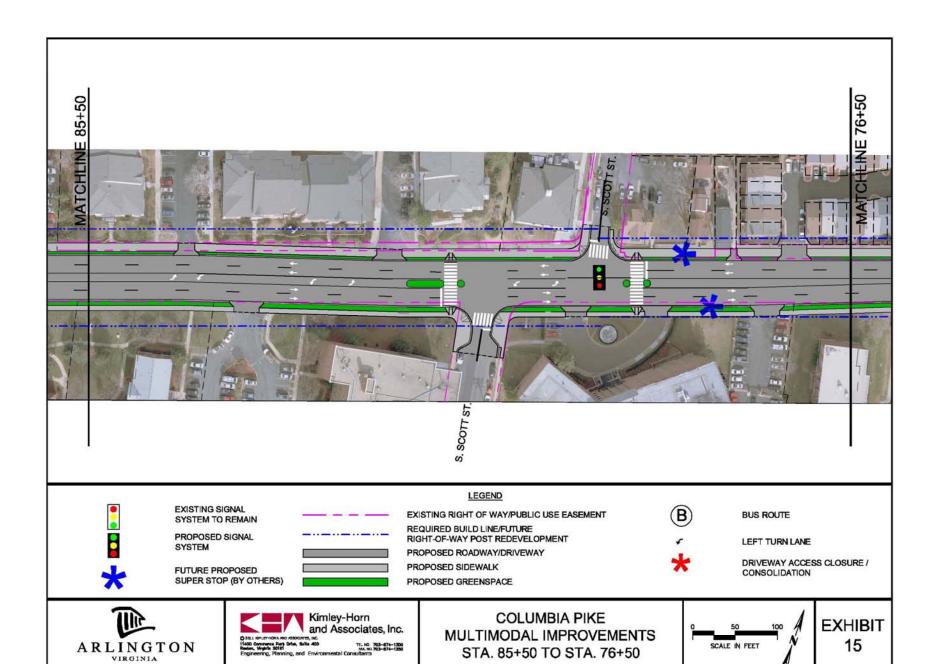
- Wider sidewalks
- Medians / two-way left turn lanes
- New signal at S. Scott St.
- Pavement reconstructed
- Utilities underground
- Minimal property impacts

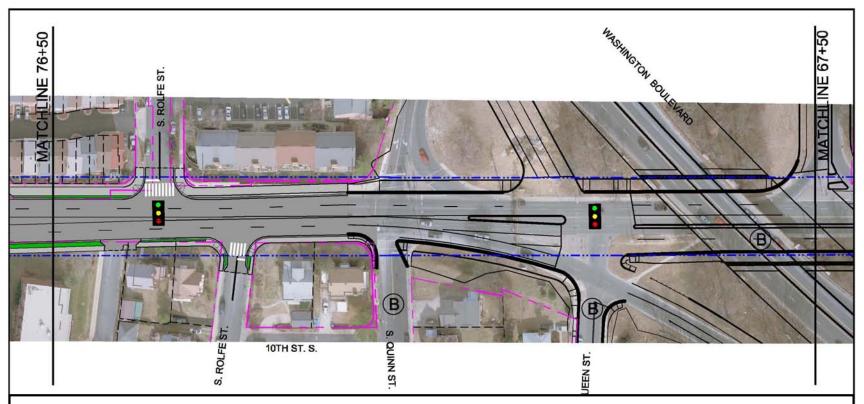












Segment: East of S. Courthouse Road to Washington Blvd interchange

56-ft cross section: Achieved to S. Rolfe St.

Between curbs: Two-way left turn lanes, short medians, pedestrian refuges, full access

for existing driveways, new signals at Rolfe and Queen, new WB left turn

lane at Queen

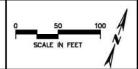
Behind curbs: Wider sidewalks, landscaping, 10-ft wide sidewalk (north side,

Courthouse to Quinn), utilities underground





COLUMBIA PIKE
MULTIMODAL IMPROVEMENTS
STA. 76+50 TO STA. 67+50



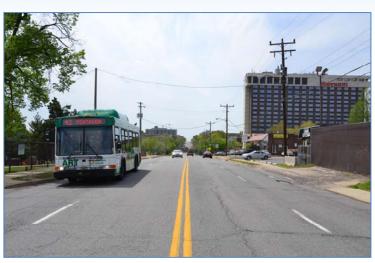




# Design Considerations Washington Blvd. Interchange to AF Memorial

- Wider sidewalks
- New signal at S. Orme St.
- Four lane section, Orme St. to USAF Memorial
- Pavement reconstructed
- Utilities underground
- Minimal property impacts

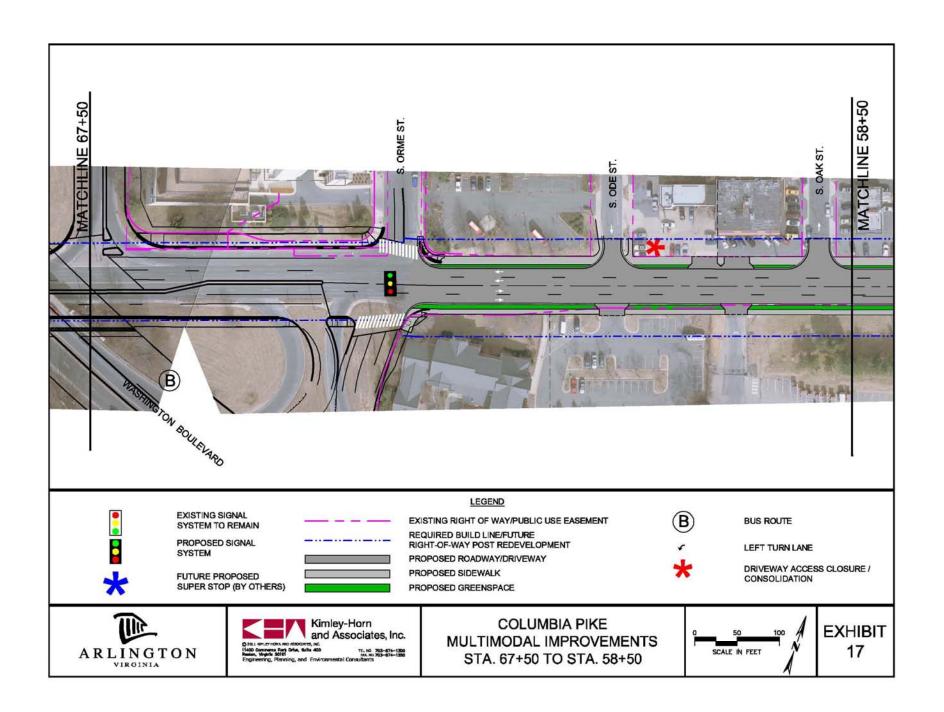


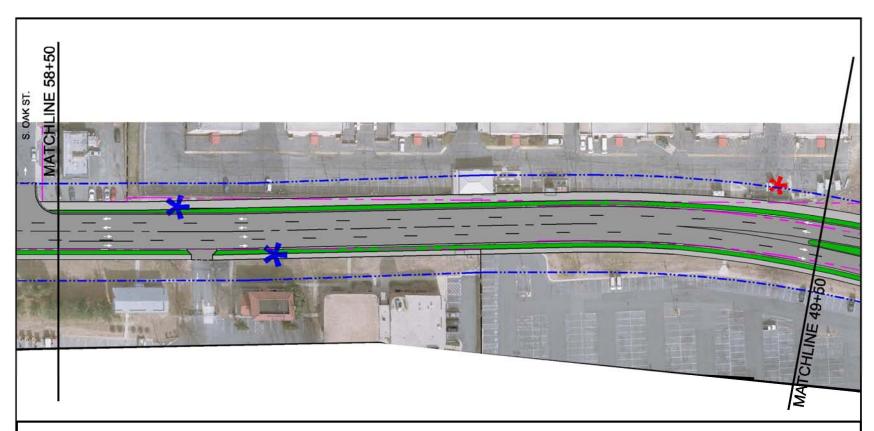












Segment: Washington Blvd interchange to west of Air Force Memorial

56-ft cross section: Not achieved – 4-lane cross section to mitigate property impacts

Between curbs: New signal at Orme, EB left turn lanes at Orme Street, full access

maintained for side streets and driveways

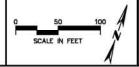
Behind curbs: Wider sidewalk on south side, limited/no landscaping, 10-ft wide

sidewalk on north side





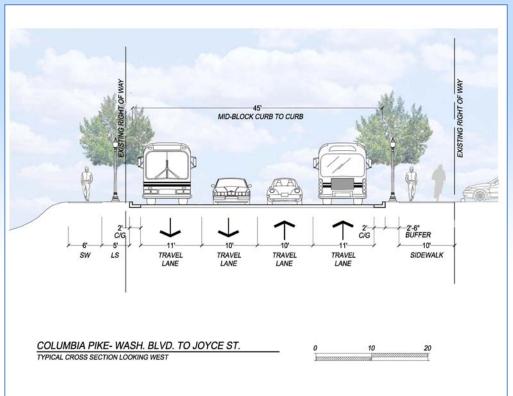
COLUMBIA PIKE MULTIMODAL IMPROVEMENTS STA. 58+50 TO STA. 49+50

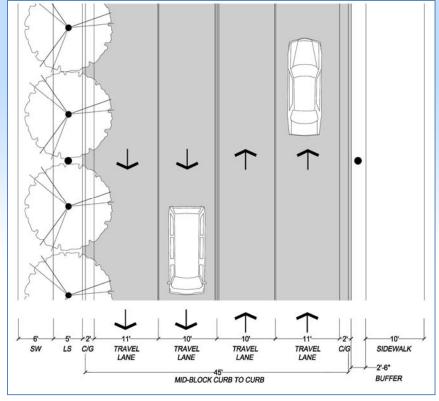






# **Design Consideration – Interim 4-lane section**











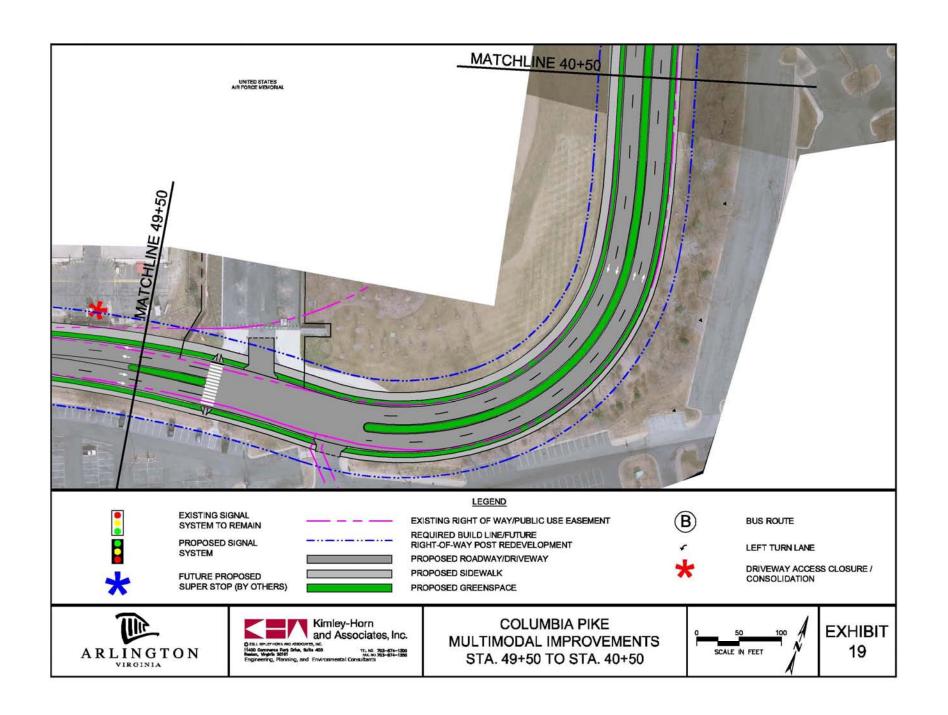
# **Design Considerations** *AF Memorial to S. Joyce St.*

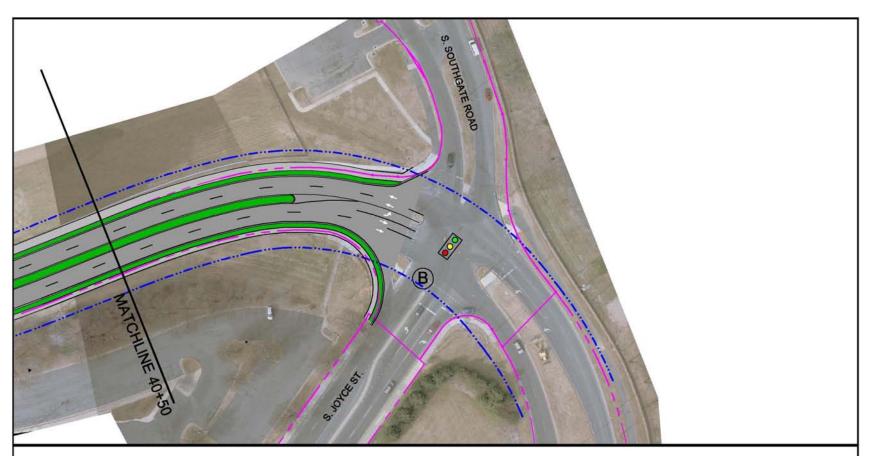
- 6-ft sidewalk on south side
- 10-ft wide sidewalk on north side
- Pavement reconstructed
- Utilities underground
- Minimal property impacts
- Possible realignment of Columbia Pike











Segment: West of Air Force Memorial to S. Joyce St./S. Southgate Road

56-ft cross section: ✓ Achieved

Between curbs: Wider median to match existing, pedestrian refuge, access maintained

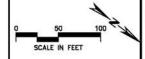
to driveways

Behind curbs: Sidewalks, landscaping, 10-ft wide sidewalk (north side, Orme to Joyce)





COLUMBIA PIKE MULTIMODAL IMPROVEMENTS STA. 40+50 TO STA. 31+50





# **Summary of Multimodal Street Improvements**

- New left turn lanes (4 intersections)
- Removal of right turn lanes (2 intersections)
- New traffic signals (2 + 2 VDOT)
- New medians in 9 locations
- New pavement, concrete curbs and gutters, improved drainage
- Utility relocations
- Improved bus stops and shelters
- Elimination of some driveway entrances
- Improved driveway aprons narrower widths, integrated with sidewalk
- Wider sidewalks, improved transit access
- Street trees and benches
- 6-ft to 10-ft wide sidewalks
- Bike racks
- Bike boulevards on parallel streets









# **Community Input Process**

- Goal: inform/seek feedback
- Website: <u>www.pikemultimodal.com</u>
- CPIT meetings
- Public information meeting
- "Progress on the Pike" e-newsletter on Arlington website
- Presentations
  - Transportation Commission
  - County Board





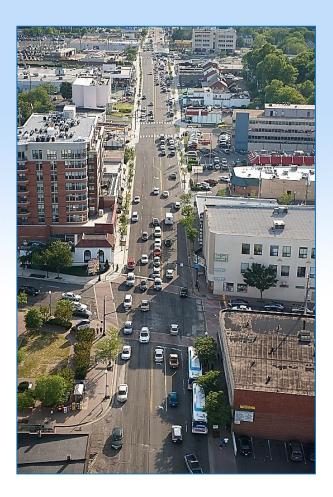






## **Recommendations / Next Steps**

- Move into preliminary engineering for segments of the Pike
- Continue to coordinate with stakeholders and public:
  - Public meeting
  - Continued CPIT meetings









# Agenda

- Introductions / purpose of meeting
- Multimodal project update:
  - Recap
  - Street space design
  - Next Steps
- Pike Transit Initiative update
- Summary





Columbia Pike Implementation Team (CPIT) Meeting
October 25, 2011





