



Washington Metropolitan Area Transit Authority

Bicycle & Pedestrian CIP Development Program

Project Update

TPB Bicycle and Pedestrian Subcommittee

March 15, 2011



Study Team

Metro, Office of Long Range Planning

Toole Design and AE COM, Project Consultants



Agenda

1. Recap of CIP Project (Presented at November Meeting)
2. Toole Design to Discuss Station Surveys
3. Call for Projects
4. Questions, Comments



Recap of CIP Project Project Goals

- Continuation of *Metrorail Bicycle and Pedestrian Access Improvements Study*
- Goal: Best Allocation of Resources
 - CIP 35: Expansion/ replacement of bike and pedestrian facilities to meet demand (\$8.2 M, FY 2011 to 2017)
 - CIP 36: State of good repair, existing bike racks and lockers (\$3.2 M)
- Approach: Survey all 86 stations for on-site improvements
 - Full survey: 48 stations with existing park-and-ride facilities/ high bike demand
 - Short survey: 38 stations with small street-level footprint/ bike racks owned by others



Recap of CIP Project Project Tasks

Project Tasks:

- Data collection, including current bike use, capacity and GIS attributes
- Creation of concept plans for each station, including bike garages and covered racks, improved bike and pedestrian access, locations for signage
- Right-sizing facilities to match supply and demand
- Project identification and prioritization, including projects suggested by jurisdictional partners



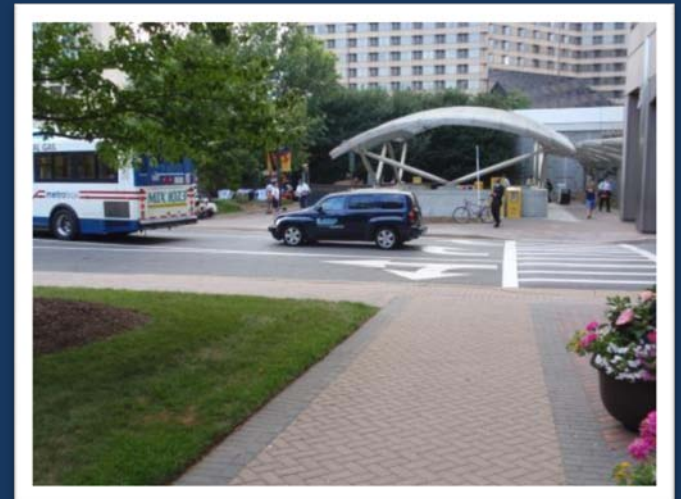
Metrorail Station Surveys Overview

Stations with Metro-owned vehicle parking (48 stations)

- On-site bicycle and pedestrian circulation paths
- Identify unmet needs and deficiencies
- Provide recommendations for addressing needs
- Identify potential high-capacity bike parking locations

Bike parking inventory (66 stations)

- Number and type of parking
- Occupancy
- Overflow parking
- Parking characteristics (e.g. covered, lit)





Metrorail Station Surveys Overview

Stations with no Metro-owned racks or lockers (20)

- Inventory bike parking provided by others (w/in 200 feet of station entrance)

Products

- GIS Inventory of bicycle & pedestrian facilities
- Possible locations for (additional) bike parking
- Locker relocation strategy





Metrorail Station Surveys Schedule

- **December-January:** Project kick-off, background data review, compile GIS information, develop station inventory elements
- **February:** Draft data collection methodology, pilot test data collection, finalize data collection methodology
- **March-May:** Collect data at all stations, compile GIS database



Metrorail Station Surveys Schedule

FEBRUARY			MARCH			APRIL			MAY		
Station	Line	Priority	Station	Line	Priority	Station	Line	Priority	Station	Line	Priority
West Hyattsville	Green	Blue	Anacostia	Green	Blue	Takoma	Red	Blue	Federal Triangle	Blue/Orange	Green
College Park	Green	Blue	Congress Heights	Green	Blue	Brookland-CUA	Red	Blue	McPherson Square	Blue/Orange	Green
White Flint	Red	Blue	Suitland	Green	Blue	Silver Spring	Red	Blue	Farragut North	Red	Green
Twinbrook	Red	Blue	Southern Ave	Green	Blue	Glenmont	Red	Blue	Capital South	Blue/Orange	Green
Rhode Island Ave	Red	Blue	Naylor Road	Green	Blue	Forest Glen	Red	Blue	Metro Center	Red/Blue/Orange	Green
New York Ave	Red	Blue	Branch Ave	Green	Blue	Union Station	Red	Green	Federal Center	Blue/Orange	Green
Wheaton	Red	Blue	Navy Yard	Green	Blue	Judiciary Square	Red	Green	Farragut West	Blue/Orange	Green
Fort Totten	Red/Green	Blue	Waterfront-SEU	Green	Blue	Friendship Heights	Red	Pink	Shaw-Howard	Green	Green
Gallery Place	Red/Green	Green	Greenbelt	Green	Blue	Cleveland Park	Red	Pink	U Street	Green	Green
Huntington	Yellow	Blue	Prince George's Plaza	Green	Blue	Van Ness	Red	Pink	Mt. Vernon	Green	Green
Dunn Loring	Orange	Blue	Columbia Heights	Green	Pink	DuPont Circle	Red	Pink	Archives	Green	Green
New Carrollton	Orange	Blue	Georgia Avenue	Green	Pink	Woodley Park	Red	Blue			
Addison Road	Blue	Blue	L'Enfant Plaza	Green	Pink	Grovesnor Strathmore	Red	Blue			
Capital Heights	Blue/Orange	Blue	Cheverly	Orange	Blue	Shady Grove	Red	Blue			
			Deanwood	Orange	Blue	Rockville	Red	Blue			
			Minnesota Ave	Orange	Blue	Bethesda	Red	Blue			
			Landover	Orange	Blue	Tenleytown	Red	Blue			
			Eastern Market	Orange	Pink	Medical Center	Red	Blue			
			Smithsonian	Orange	Pink	Vienna-Fairfax	Orange W	Blue			
			Arlington Cemetery	Blue/Yellow S	Green	East Falls Church	Orange W	Blue			
			Braddock Road	Blue/Yellow S	Blue	West Falls Church	Orange W	Blue			
			Eisenhower Ave	Blue/Yellow S	Blue	Virginia Square	Orange W	Pink			
			Franconia-Springfield	Blue/Yellow S	Blue	Courthouse	Orange W	Green			
			King Street	Blue/Yellow S	Blue	Ballston	Orange W	Pink			
			Van Dorn St.	Blue/Yellow S	Blue	Foggy Bottom	Orange W	Pink			
			Pentagon	Blue/Yellow S	Pink	Rosslyn	Orange W	Pink			
			Pentagon City	Blue/Yellow S	Pink	Clarendon	Orange W	Pink			
			Benning Rd	Blue E	Blue						
			Largo Town Center	Blue E	Blue						
			Morgan Blvd	Blue E	Blue						
			Potomac Ave	Blue E	Pink						
			Stadium Armory	Blue E	Green						
			Crystal City	Blue E	Green						
			Reagan DCA	Blue E	Pink						

Fieldwork Station Schedule



Metrorail Station Surveys

Example of Field Data – Path to Station

Field Description	Field Name	Type	Values
Recommendation	RECOMMEND	Text	Construct New Widen Existing Repair/Resurface
Shared Use	SHRDUSE	Text	Bikes and Peds Peds Only
Existing Width	EXISTWIDTH	#	
New Width	NEWWIDTH	#	
Level of Difficulty	LVLDFCLTY	Text	High Medium Low
Overall Priority	PRIOR	Text	High Medium Low
Notes	NOTES	Text	Freeform Response



Metrorail Station Surveys Recommendations

Recommend pedestrian and bicycle improvements (access and infrastructure)

- Bike Parking
- Pathways
- Wayfinding

Develop concept plans for Metrorail Stations

- Plan for each station
- Identify proposed pedestrian and bike improvements
- Present conceptual recommendations

Jurisdictional Projects

- Projects identified by TPB members

Prioritization of All Projects

- Development of criteria



Metrorail Station Surveys Recommendations

Preliminary Report

- Recommendations by station for CIP
- Highlights of consistent themes
- Cost estimates (using WMATA unit costs)
- Executive summary

Final Report

- Stakeholder input
- Design assistance
- Field verification
- Interim report for public comment
- Final report



Call for Projects

1.) Types of Improvements

A. Projects at a station

B. Off-site projects, directly related to accessing a station using FTA guidelines:

- Pedestrian improvements up to ½ mile from station
- Bicycle improvements up to 3 miles from station

2.) Prioritization Criteria



On-Site Projects – Metrorail Stations

- Stations with frequent complaints/ inquiries from the community
- Potential unsafe conditions, overloaded bike parking, poor pedestrian access or signage





Off-Site Projects Up to 3 Miles from Station

- Must have nexus to transit, “solve the last mile problem”
- FTA Guidelines:
 - Pedestrian improvements up to ½ mile from station
 - Filling in gaps: trails, sidewalks, crosswalks, lighting
 - Bicycle improvements up to 3 miles from station
 - Trails and bikelanes on principal routes serving the station



Prioritization Criteria

- All projects identified must include cost estimate and determination of feasibility and GIS attributes if available.
- Criteria Development
 - Metro's five goals:
 - SAFETY
 - Quality of service (enhance mobility)
 - Use resources wisely (target investments that increase revenue)
 - Maintain Metro's image (promote the region's livable communities)
 - Attract the best and brightest



Prioritization Criteria

- Criteria Development, Cont.
 - Other possible objectives:
 - Security
 - Stations with high current bike demand/ high projected growth
 - Leveraging projects with others
 - Stations with high number of short auto trips (0 -3 miles)
 - Jurisdictional equity
 - Project cost



Prioritization Criteria Sample Project Matrix

No.	Station	On/ Off Site	Location	Description	Type of Treatment	Cost Estimate		Feasibility	Criteria			
						Low	High		Safety	Security	Existing Capacity	Future Demand
1	New Carrollton	On	West Entrance	Add 20 new U racks	Bike Rack	\$2,000	\$3,000	High	No	Yes	Yes	Yes
2	Twinbrook	Off	Halpine and Rockville Pike	Add crosswalks on all approaches	Marked Crosswalk	\$100	\$300	High	Yes	No	Yes	No
3	Largo	On	Lottsford Road	Provide Sidewalk on Access Road	Sidewalk	\$40,000	\$60,000	Medium	Yes	No	Yes	No
4	Shady Grove	On	East Entrance	Provide Crosswalk from Street to Station	Marked Crosswalk	\$100	\$300	High	Yes	No	Yes	No
5	Bethesda	Off	Bus Loop	Provide Bike Garage	Bike Garage	\$25,000	\$35,000	Medium	No	Yes	Yes	Yes



Schedule

- On-Site Projects- ASAP to inform data collection
- Off-Site Projects- List due ONE WEEK prior to May Committee meeting