



# Sidewalk Priorities Present and Future

May 21, 2015



# Overview of Current Projects and Project Delivery Process

Public Works

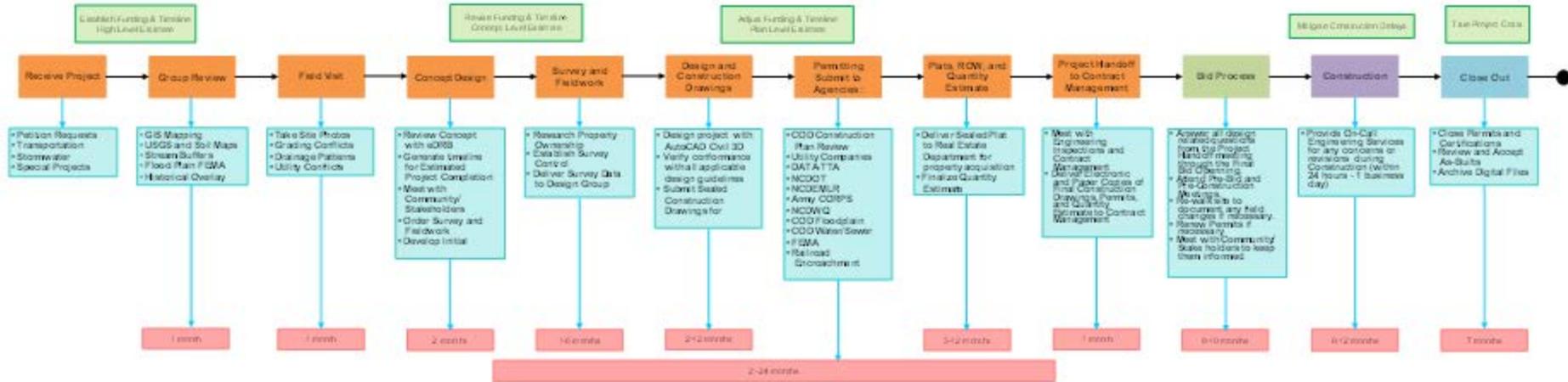


# Project Delivery Process

- **CITY FUNDED PROJECTS**
  - On City Streets
  - On NCDOT Roads
  
- **STATE & FEDERALLY FUNDED PROJECTS**



# Project Delivery Process



See Attachment



# More than just a Sidewalk Project

Sidewalks can vary greatly in complexity and costs. There are many factors which can contribute to the variability of cost, complexity and delivery time including the following:

- Funding Source
- Topography
- Right of Way
- Permitting Requirements
- Community Engagement Process
- Bicycle/Pedestrian and/or Road redesign
- Changing Regulations
- Staffing
- Flood Plains
- Historic Districts
- Utility Relocations
- Environmental Documents

# Current Staffing Workloads

## Active City Projects

### Civil Engineer V, Group Mgr.

- 2015 Repaving \$1.5M
- NCIMED \$0.38M

### Civil Engineer IV

- Gigafiber Permits TBD
- Gigafiber On Call Repair TBD
- Carver Street Ext \$7.3M
- Spec Rewrites

### Civil Engineer I

- Avondale Sidewalk \$0.5M
- Campus Walk/ LaSalle Sidewalk \$0.34M
- 2015 Sidewalk Repair Projects \$0.8M
- Duke/Gregson Curb Extensions \$0.31M
- NC 751/NC 54 Sidewalk \$0.3M

### Civil Engineer I

- University Drive Sidewalk
- Failed Dev Paving TBD
- 2015 Speed Humps \$0.05M
- ATT Shoulder Repair \$0.05M

### Project Manager

- Fayetteville Road Widening \$7.6M
- F'ville/Buxton/ Riddle Realignment \$5.3M
- SRTS Fayetteville Sidewalk \$0.45M
- SRTS Faye, Barbee, etc. Sidewalk \$0.067M
- Sidewalk Repair \$1.1M

Estimates are preliminary and subject to change until construction completion.



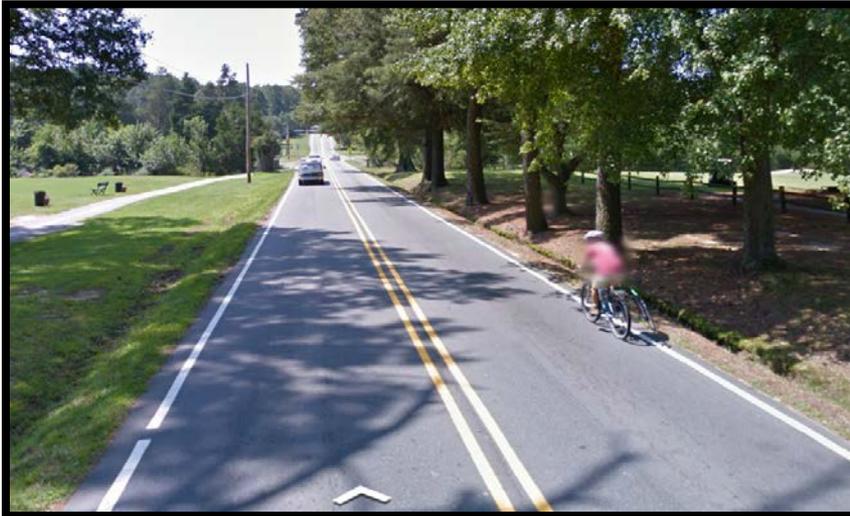
# What is the Benefit of Additional Resources

- Additional resources will not impact the delivery timeline specific to each project.
  - Delivery timelines are controlled by many variables and requirements based on the physical location of the project and the project funding source.
  - Resources (staff or funding) can impact the number of projects delivered, but not the length of time it takes to deliver each.



# Complex Sidewalk Project

- Projects on roads with variable/limited right of ways, large trees, major utility, flood plain and culvert conflicts - Approx. 1 mile.

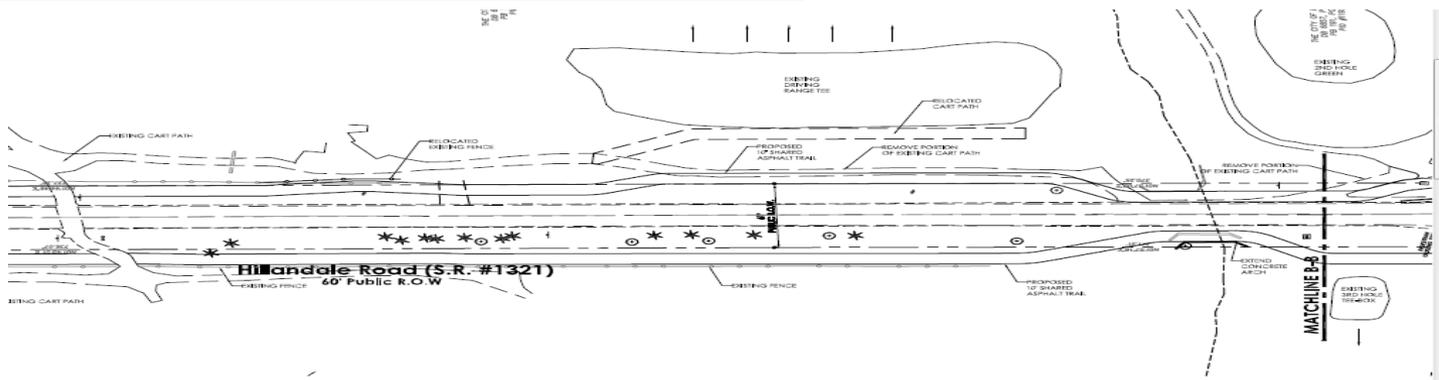


## Hillandale Bicycle/Pedestrian Project

Average Cost: \$3.1M (\$600/LF)

- RFQ Process Mgmt. 10 months
- Design and Permit 13 months
- R/W, Utility, MOU, etc. 20 months
- Contract Development 4-6 months
- Construction 13 months

Project Completion Time: 60+ months



# Complex Sidewalk Project

- Less than 100 feet of sidewalk on NCDOT road

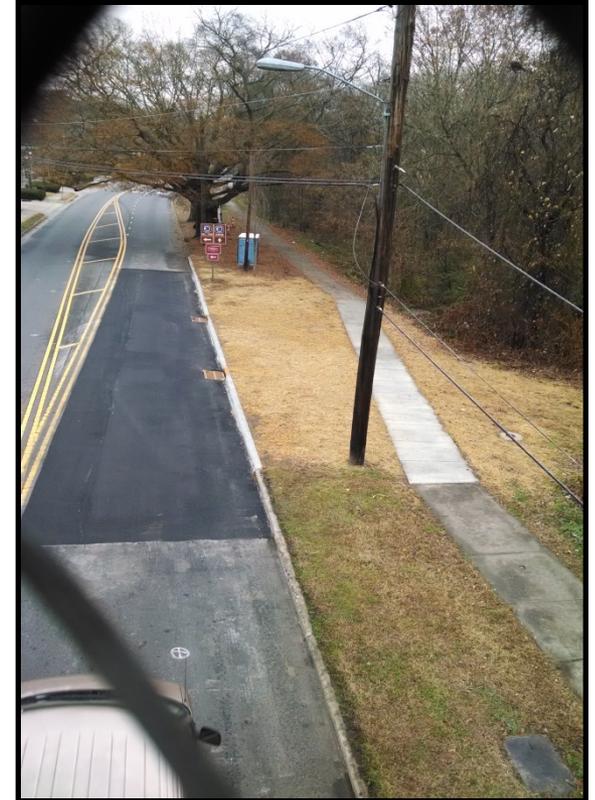


## **W. Lakewood Av Sidewalk**

Cost: \$37K (\$340/LF)

- Design and Permit 18 months
- R/W, Utility, MOU, etc. 20 months
- Contract Development 4-6 months
- Construction 13 months

Project Completion Time: 48+ months



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# Moderate Sidewalk Project

- Projects on roads requiring sections of curb and gutter, catch basins, culvert extensions and repaving of various sections.



## **Garrett Rd. (From Swarthmore to King Charles)**

Average Cost: \$410K (\$137/LF)

- Design and Permit 12-18 months
- Contract Development 6 months
- Construction 8 months

Project Completion Time: 32 months

# Simple Sidewalk Project

- City Funded on City Streets with curb and gutter, sufficient right of way, flat topography, no utility/vegetation conflicts, drainage or environmental issues.



## **Madison St. (From Northwood to W. Corporation)**

Typical Cost: \$50-60/LF

- Design and Permit 3-6 months
- Contract Development 4-6 months
- Construction 4 weeks

Project Completion Time: 8-13 months



# Other Major & Recurring Public Works Projects

- Carver Street Extension
- Fayetteville Road Widening
- Fayetteville/Buxton/Riddle
- Annual Repaving
- Annual Sidewalk Repair
- Streetscape Repair
- Major Road Widening and New Construction
- Bridges & Large Culverts (TBD)
- Speed Humps
- Other (Trails, parking lots, etc.)



# Summary of Project Workload

- **Current**
  - **Over 20 Active Projects**
    - Sidewalk Repair
    - Repaving
    - New Sidewalk
    - New Roads and Road Widening
  - **Greater than \$30M of Work**
- **Future**
  - **More than 32 Projects yet to assign.**
  - **30 of those with a pedestrian component.**



# Prioritizing and Delivering Future Projects

Transportation



# 2006 DurhamWalks! Plan Components

- Ranked sidewalk corridor projects
- Ranked intersection projects
- Identified sidewalk repair needs
- Reviewed programs and policies
- Recommended standards and guidelines
- Applied within city limits circa 2005



# 2011 DurhamWalks! Plan Update

- Revised Project Ranking Methodology (greater weight to schools, parks, etc.)
- Updated Ranking Criteria (pedestrian crashes, transit use, etc.)
- Revised Project Rankings
- Developed Sidewalk Priority List (adopted by City Council - \$14 million unfunded construction cost)



# 2006 Durham Bicycle Plan Components

- Reviewed existing conditions
- Described short-term and long-term networks
- Identified top-priority projects
- Reviewed programs and policies
- Recommended standards and guidelines
- Covered entire county



# Sidewalks Completed Since 2006

Street	Limits	Constructed By
Club Blvd	Ruffin St to Stephenson St	City
Dearborn Dr	Old Oxford Rd to Ruth Street St	City
Garrett Rd	Jordan High to Swarthmore Rd	City
Hillandale Rd	Carver St to Peppertree St	City
Hillandale Rd	Club Blvd to NC 147 Ramp	City
Hillsborough Rd	US 15-501 Bypass to Ninth St.	City
Hope Valley Rd	Swarthmore to existing sidewalk	City
Markham Ave	Washington St to Avondale Dr	City
University Dr	Old Chapel Hill Rd to Ivy Creek Pkwy	City
University Dr	MLK Pkwy to Old Chapel Hill Rd	City
Washington St	Glendale St to Urban St	City
Erwin Rd	Main St to Anderson St	Duke Univ
Erwin Rd	Morreene Rd to Cameron Blvd	Duke Univ
Hillandale Rd	I-85 to Carver St	NCDOT
Miami Blvd	Methodist St to Bethesda Ave	NCDOT



# Sidewalks Under Development

Street	Limits	Status	Constructed By
Alston Ave	Campus Hills Park to Riddle Rd	Design	City
Avondale Dr	Roxboro St to Geer St	Permitting	City
Campus Walk Ave	Morreene Rd to LaSalle St	Permitting	City
Fayetteville Rd	Cornwallis Rd to Pilot St	Permitting	City
Fayetteville Rd	Riddle Rd to Barbee Rd	Design	City
LaSalle St	Kangaroo St to Erwin Rd	Permitting	City
NC 55	Riddle Rd to Cecil St	Design	City
NC 751 (Hope Valley Rd)	Garrett Road to NC 54 / Dresden Dr	Right of Way Acquisition	City
University Dr	Old Chapel Hill Rd to Cornwallis Rd	Design	City
Alston Ave	NC 147 to Holloway St	Bid Process	NCDOT
Holloway St	Miami Blvd to Southerland St	Construction	NCDOT
Old Durham-Chapel Hill Rd	Garrett Rd to Pope Rd	Right of Way Acquisition	NCDOT



# Sidewalks Funded & Awaiting Design

Street	Limits	To Be Constructed By
Carpenter-Fletcher Rd	Woodcroft Pkwy to Alston Ave	City
Cornwallis Rd	Chapel Hill Rd to Roxboro St	City
Hillandale Rd	NC 147 to I-85	City
Morreene Rd	Campus Walk Ave to Erwin Rd	City



# Status of Unfunded Sidewalk Priority List

	Road Name	Extent From	Extent To	Status
1	Roxboro2	Pacific	Murray	In Design
2	Geer4	Midland Terrace	Glenn School	Unfunded
3	NC 55A	Riddle	Cecil	In Design
4	DukeA1	Roxboro	Carver	Funded in Draft State TIP
5	HortonA2	Stadium	Roxboro	Requested funding in CIP
6	Cook	Fayetteville	MLK Parkway	Requested funding in CIP
7	HardeePW	Holloway	Cheek	Requested funding in CIP
8	Pickett	Tower	Garrett	Requested funding in CIP
9	FayettevilleA4	Buxton	Pilot	Permitting / Bid Process
10	GuessA1	Hillcrest	Carver	Unfunded
11	RaynorPW	Miami	Hardee	Funded in Draft State TIP
12	HortonA1	Hillandale	Stadium	Unfunded
13	Randolph	Erwin	Pickett	Unfunded
14	HWY 54A3	NC 55	Alston	Funded in Draft State TIP
15	University5	Forest Hills	Lakewood	Unfunded
16	Academy1	Duke University	Cornwallis	Unfunded
17	AngierPW	Hoover	Pleasant	Unfunded
18	LaSalleA2	Sprunt	Kangaroo	Funded in Draft State TIP
19	Cornwallis1	Western	Chapel Hill	Unfunded
20	Kent2	Lakewood	University	Unfunded
21	Club2	Ambridge	Dearborn	Unfunded
22	FayettevilleA1	Massey Chapel	NC 54	Unfunded
23	GarrettA2	Swarthmore	Old Chapel Hill	Unfunded
24	Tower	15-501	Pickett	Unfunded



# Bike Lanes Added Since 2006 (22 miles)

1	Chapel Hill Road from Pickett Road to Bivens Street (0.8 miles)
2	Downing Creek Parkway from NC 54 to Barbee Chapel Rd (0.9 miles)
3	Elizabeth St from Main St. to Carlton St. (0.4 miles)
4	Erwin Road from Anderson St. to Pettigrew St. (0.5 miles)
5	Leon St from Duke to Haverford (0.6 miles)
6	Martin Luther King Jr. Blvd. from Hope Valley Rd. to University Dr (1.6 miles)
7	Nichols Farm Road from Holloway Street to Holder Road (1.2 miles)
8	Sedwick Rd from Dedmon Ct. to Verna St. (0.5 miles)
9	Lawson Street from Bacon St. to Briggs Ave. (0.5 miles)
10	Anderson St. from Duke University Rd. to Chapel Hill Rd. (1.2 miles)
11	Briggs Avenue from Person St. to Riddle Rd. (0.4 miles)
12	Anderson St. from Campus Drive to Erwin Road (0.5 miles)
13	W. Chapel Hill Street from NC 147 to Downtown Loop (0.4 miles)
14	University Drive from Vickers Ave. / Enterprise St. to Duke St. (0.2 miles)
15	E. Pettigrew St. from Driver St. to Duane St. (0.8 miles)
16	Maxwell Ave from Buchanan Blvd to Campus Drive (0.3 miles)
17	Blackwell Street from Morehead Ave. to Lakewood Ave. (0.2 miles)
18	Morehead Avenue between Chapel Hill Road and Anderson Street (0.6 miles)
19	Juliette Drive between Greyfield Blvd and the American Tobacco Trail (0.7 miles)
20	University Drive from Cornwallis Rd to Vickers Ave. / Enterprise St. (1.4 miles)
21	Duke University Rd. / Chapel Hill St. from Swift Ave. to Kent St. (0.4 miles)
22	NC 751 from Stagecoach Rd to Fayetteville Rd (1.0 miles)
23	Hillandale Rd. from Front St. to Carver St. (0.5 miles)
24	Main St. from Watts St. to Fifteenth St. (1.1 miles)
25	Oak Grove Parkway from NC 98 to Stallings Rd (1.2 miles)
26	Washington St. from Monmouth Ave. to Club Blvd. (0.8 miles)
27	T.W. Alexander Drive from Cornwallis Rd to NC 147 (0.9 miles)
28	Barbee Chapel / Farrington / Stagecoach (2.0 miles)



# Outcomes Since Bike/Pedestrian Plan Adoption

- Percent walk to work – 2.7 to 3.2 %
- Percent bike to work – 0.5 to 1.1 %
- 22 miles – new bike lanes
- 52 intersections – pedestrian signals
- 7 road reconfigurations
- Completed sidewalk projects
- Expanded the UDO bike/ped requirements
- Education, encouragement, enforcement
- Bicycle-friendly community designations
- Creation of bike & hike map



# Need to Update Plans

- Age of current plans
- Changing demographics and priorities
- Changing geography and development patterns
- Refinement of ranking methodology
- New design standards and best practices
- More fully consider complete streets by integrating two plans into one

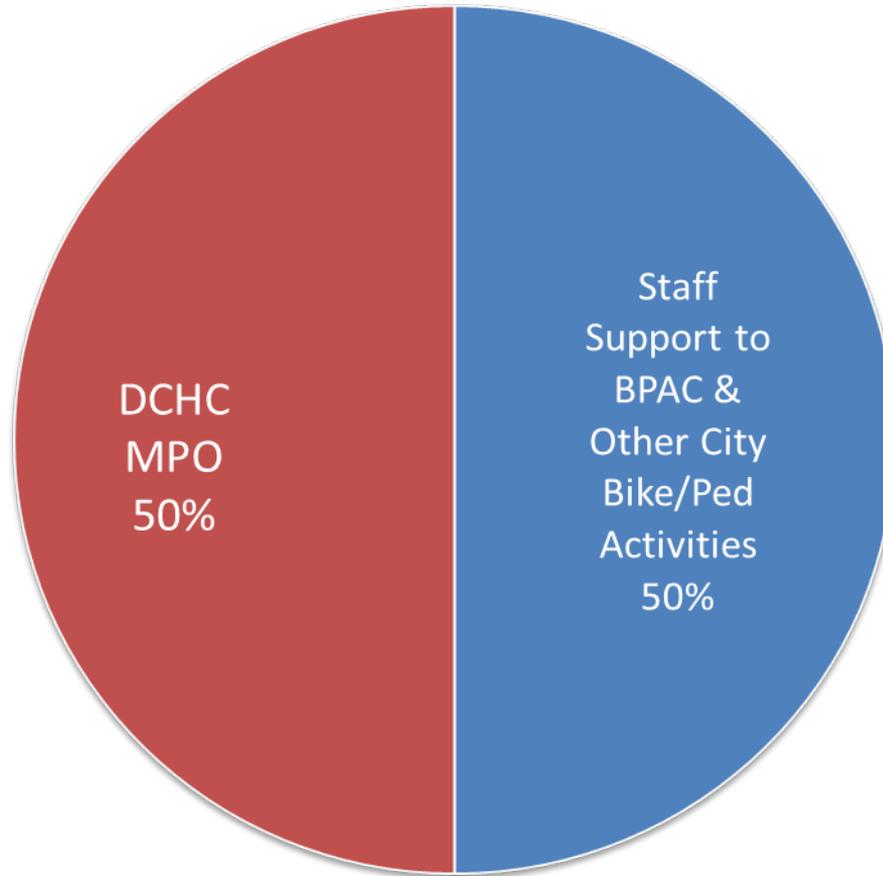


# Goals for Updated Plan

- Combine the current bicycle and pedestrian plans into one updated plan.
- Define priority corridors and networks for the next decade.
- Incorporate other plans: transit emphasis corridors, SASI, streetscape plans, etc.
- Identify high benefit, lower cost projects to ensure maximum value of facility investments
- Align funding source and project type to ensure best fit and maximize staff resources
- Improve readability with a clear set of goals.



## Time Allocation of Current Bike/Ped Planner





# Tasks & Responsibilities - BPAC

- Agenda / minutes / attendance reporting
- Committee meetings (4 per month)
- Events planning and implementation (bike month, etc.)
- New member recruiting / orientation
- Correspondence
- Durham bike/pedestrian listserv (monitoring / maintenance)
- Development review comments
- Walk/bike to school events
- Annual BPAC report and presentations



# Tasks & Responsibilities - City

- Watch for Me NC – education and enforcement
- TIGER Planning Grant – Duke Belt Line
- Strategic Plan (annual and biannual updates)
- Citizen Responses (One Call, e-mail, Coffees, etc.)
- Presentations (PACs, projects, organizations, etc.)
- Bicycle Friendly Community Application
- Bike Rack Installations
- Bike & Hike Map Updates
- Training (bus drivers, taxi drivers, crossing guards)



# Tasks & Responsibilities - MPO

- Long Range Transportation Plan (MTP) updates
- Comprehensive Transportation Plan (CTP)
- Transportation Improvement Program – STI data project selection process
- Project review / comment – highway projects, bridge replacement projects, etc.
- Transportation Demand Management Oversight Committee
- Annual Triangle Bicycle and Pedestrian Workshop
- Durham-Orange Light Rail Transit project coordination
- Old Durham-Chapel Hill Road bike/ped project



# Budget and CIP Proposal

- An additional FTE position is requested in the FY16 budget
- Additional staff resources will allow city to:
  - Ensure project delivery of currently funded projects (agreements with NCDOT, community meetings, right-of-way certification, etc.)
  - Prepare and issue RFQs for Bike/Ped Plan Updates
  - Manage consultant work for plan updates
  - Facilitate community engagement (plan updates through project delivery)
  - Deliver projects following plan completion
  - Participate in Mayors' Challenge for Safer People, Safer Streets



# Budget and CIP Proposal

- The adopted MPO Work Program includes \$100,000 (80 %) for the plan update.
- A local match of \$25,000 (20%) is requested in the FY16 budget.
- \$19.71 million in new sidewalk construction funds requested in CIP



# QUESTIONS?