



#### **Lorimer Road Petition Project**

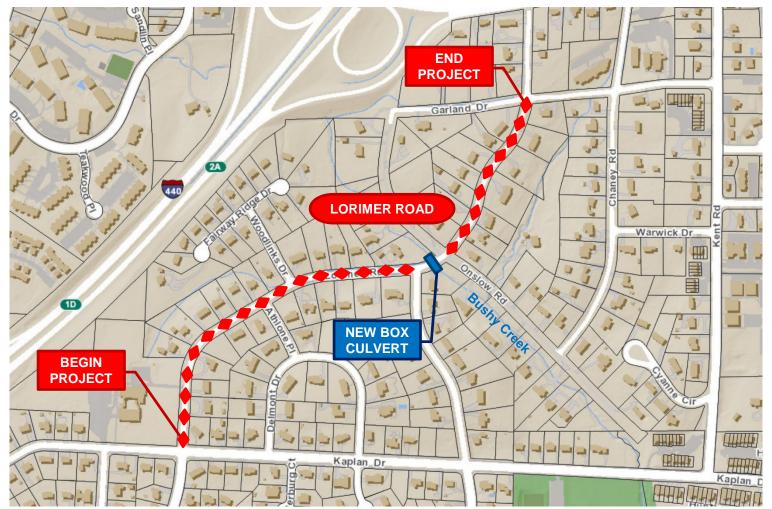


#### Public Meeting

August 28, 2017

#### **Project Location Map**







### **Purpose of Project**



To address:

- Roadway Deficiencies
- Pedestrian Safety & Connectivity
- Aging Infrastructure
- Stormwater Runoff Issues
- Local Interest To Add Sidewalks



#### **Roadway Deficiencies**





- Constructed in 1950's without design standards
- Narrow street in rolling terrain with steep slopes
- Old pavement is nearing the end of service life



#### **Roadway Deficiencies**





- Visual obstructions trees limit sight distance
- Fixed-object tree hazards along the roadway
- No sidewalks or usable shoulders for pedestrians



#### **Pedestrian Safety**





- Incomplete sidewalks & pedestrian connectivity
- Pedestrians forced to walk in travelway
- No pedestrian connection to schools & churches



### **Aging Infrastructure**





## Typical box culvert service life is 50 years



# Existing culvert is over 55 years old



### **Aging Infrastructure**





- Concrete spalling exposing steel reinforcement
- Encased gas & water utility lines attached under deck surface - not permitted by today's standards



#### **Stormwater Deficiencies**



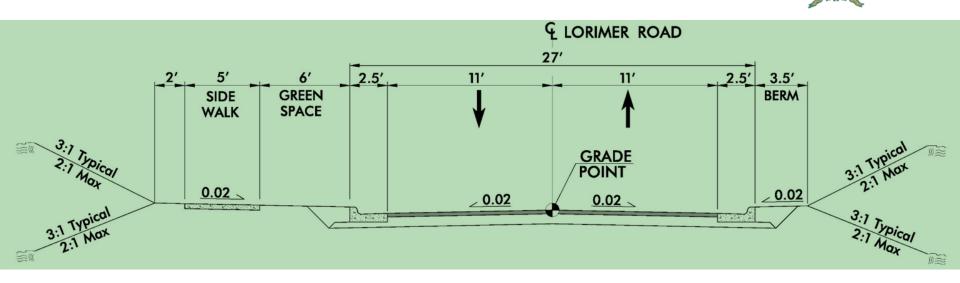




- High water velocities and flooding
- Existing roadway ditches show isolated erosion
- Ditch erosion carries sediment to Bushy Creek



### **Original Roadway Section**



- Remove and replace the existing pavement
- Construct a curb & gutter section with 11' lanes
- 5-foot sidewalk, 6-foot green space on the west side

Dewberry

• 3.5-foot berm on the east side

### **Original Project Approach**



- Roadway side slopes designed to minimize the construction footprint
- Add new driveway aprons and matching driveway surface material
- Remove & Replace the Bushy Creek Box Culvert
- Add a new storm drain system to minimize the use of roadside ditches



 New storm drain system will be designed to separate roadway surface runoff from offsite stormwater



### **Public Meeting #1**



#### Summary of Comments & Concerns:

- Reduce sidewalk setback & construction footprint
- Tree Loss & Property Value Loss from construction
- Hire an Arborist to assess impact to trees
- Eliminate existing roadside ditches
- No level spreaders, save trees
- Special Considerations (driveways & walls)



### **Response To Comments**



Dewber

#### **Design Revisions:**

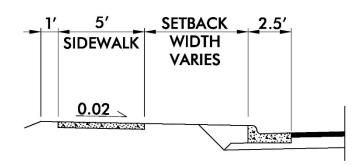
- More Parcels w/ Reduced Sidewalk Setback
- Reduced Construction Footprint
- Eliminated Level Spreaders
- Eliminated Existing Ditches Along Lorimer Road
- Upgrade Street to Current Fire Protection Standards
- Added a Project Arborist w/ City Urban Forestry Division



#### **Reduced Setback Width**



- Reduced the Setback to 3.5' on Nine (9) Parcels
- Increased the Setback to 11' for One (1) Parcel to avoid a Power Pole
- Added a Retaining Wall to Parcels 1400 & 1402
- West Side Impacts Reduced by: 0.3 Ac.
  Original Design - 0.9 Ac.
  Revised Design - 0.6 Ac.



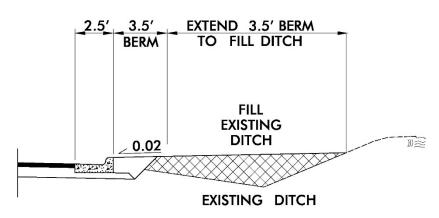
LORIMER ROAD		
GREEN SPACE / SETBACK WIDTH		
STATION T	o station	WIDTH
-L1- 11+50	-L1- 13+25	6'
-L1- 13+25	-L1- 13+75	TRANSITION 6' TO 11'
-L1- 13+75	-L1- 14+25.70	11′
-L1- 14+25.70	-L1- 14+75	TRANSITION 11' TO 6'
-L1- 18+50	-L1- 19+00	TRANSITION 6' TO 3.5'
-L1- 19+00	-L1- 21+96	3.5'
-L1- 22 + 72	-L1- 24+30	3.5′
-L1- 24+30	-L1- 24+55	TRANSITION 3.5' TO 6'
-L1- 24+55	-L1- 27+00	6'
-L1- 27+00	-L1- 27+35	TRANSITION 6' TO 3.5'
-L1- 27+35	-L1- 29+36	3.5′
-L1- 29+36	-L1- 29+56	TRANSITION 3.5' TO 2'
-L1- 29+56	-L1- 30+07	2'
-L1- 30+78	-L1- 35+50	6'
-L1- 35+50	-L1- 36+00	TRANSITION 6' TO 3.5'
-L1- 36+00	-L1- 39+65	3.5'



#### **Eliminated Ditches**



- Extended 3.5' Berm To Fill Existing Ditches
- Eliminated Rock Lined Ditches
- Use Erosion Control Matting for Toe Protection
- Eliminated level spreaders
- Direct discharge to Bushy Creek from new storm system (same as existing)







#### • Lorimor Dd boo Five (5)

**Fire Protection** 

- Lorimer Rd has Five (5) fire hydrants from Kaplan to Garland
- One fire hydrant every 500' to 1000'
- Upgrade to current fire protection standards
- One fire hydrant / 400'
- Add Three (3) new fire hydrants on Lorimer Rd

#### Increase property value

#### **New Fire Hydrants**

Reduced Fire Risk





#### Dewberry

#### **Arborist Involvement**



- Urban Forestry Division w/ ISA Certified Arborist
- Field survey of Location, Size, & Species
- Assess Tree Health (good, diseased, dead)
- Assess Hazards (utility conflicts, safety)
- Provide guidance for tree protection and removal



Arboricultural Specifications & Standards of Practice

#### Urban Forestry Division:

http://www.raleighnc.gov/parks/content/ParksRec/Articles/ Programs/UrbanForestry/UFDivision.html

#### Tree Impact Permit:

https://raleighnc.seamlessdocs.com/f/TreeImpact





### **During Construction**



#### What to Expect...

- The project will be constructed in five (5) phases
- Access will be maintained to all driveways
- The project will have road closures and offsite detours
- Some detours will be one-way through work zones
- No Construction at Night
- Holiday Work Restrictions



### **Construction Phasing**



- Phase I: Box Culvert Construction @ Onslow
- Phase II: Construction from Onslow to Garland
- Phase III: Construction from Woodlinks to Onslow
- Phase IV: Construction from Kaplan to Woodlinks
- Phase V: Paving Final Surface Course from Kaplan to Garland

#### **Project Construction News & Updates:**

http://www.raleighnc.gov/projects/content/PWksDesignConst/ Articles/SidewalkProjects.html



### **Project Benefits**



- New roadway grade and pavement improves safety, comfort, and appearance of the road
- New sidewalk improves pedestrian safety and provides connectivity to Kaplan Drive, Combs Elementary School, the Western Boulevard Presbyterian Church
- New larger box culvert reduces frequency of roadway flooding from Bushy Creek
- Filled-in existing ditches with extended berm
- New curb and gutter reduces runoff to private property
- Increased neighborhood fire protection



#### **Project Timeline**



- Begin Permitting Process: August 2017
- Begin Easement Acquisition: Fall 2017
- Complete Easement Acquisition & Permitting Process: Winter 2018
- Advertise Project for Construction Bids: Spring 2018
- Award Construction Contract: Summer 2018
- Complete Construction: Fall 2019

#### **Estimated Project Cost: \$2.6 million**



### **Public Input**

- Comments are being accepted until September 15, 2017
- Please provide your comments this evening, or mail them to the address listed on the comment form in your handout







# Thank you for attending tonight's meeting!

