

# What you have told us and what we are doing to address your concerns:

## “Storm water runoff is a problem...”

Our response: We are implementing water quality treatment (interventions) in order to intercept, slow down, and remove as much surface water, where ever possible along Derrydown Way.

## “We are concerned about the removal of existing Dogwoods and other trees...”

Our response: It is always a hard choice to remove established trees, especially specimen trees! Whilst we do our utmost to avoid tree removal sometimes it is unavoidable. Any tree that is removed will be replaced either on site or at another City of Decatur location.

## “Very concerned about the slopes if the sidewalk goes on the West side...”

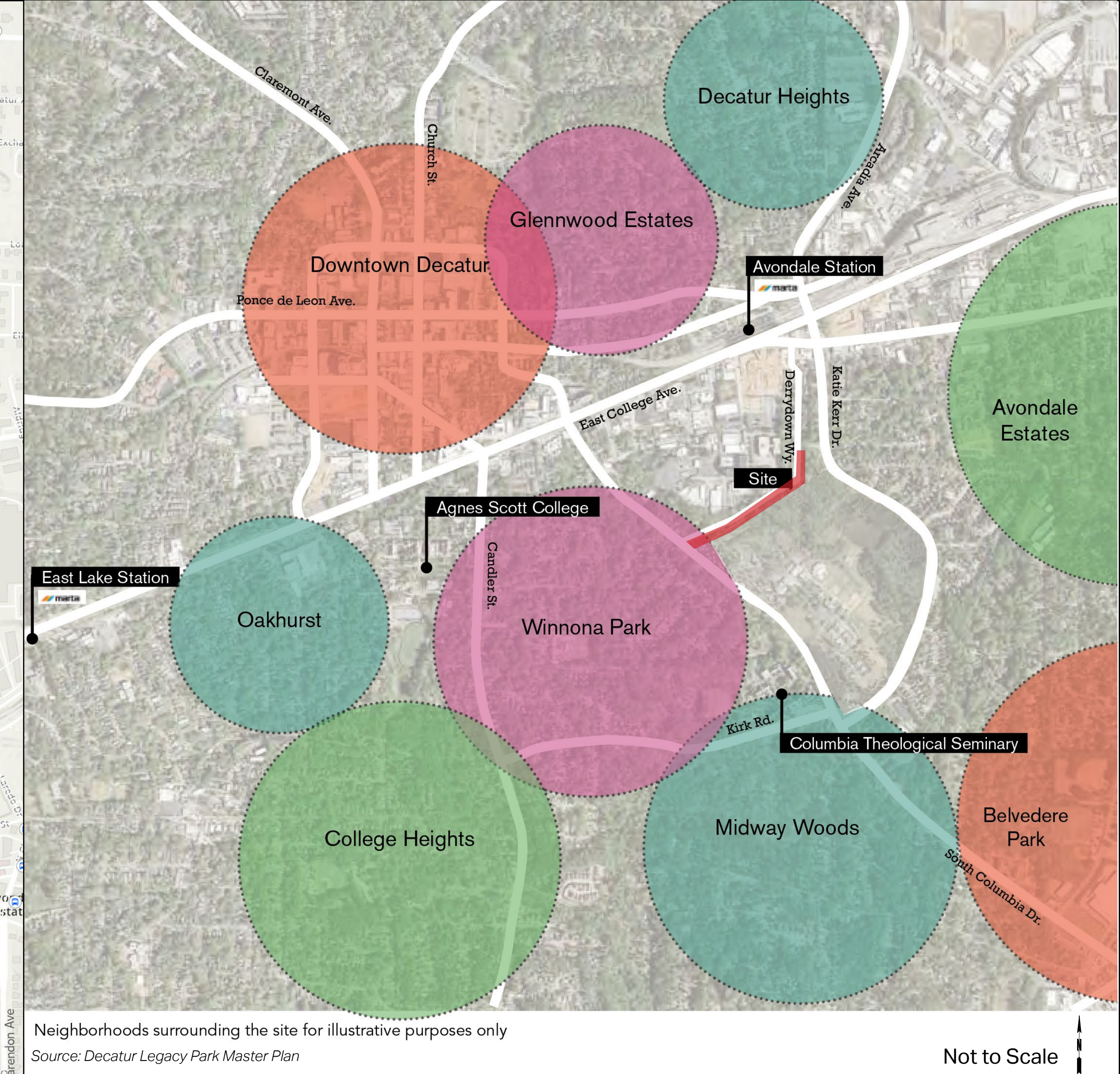
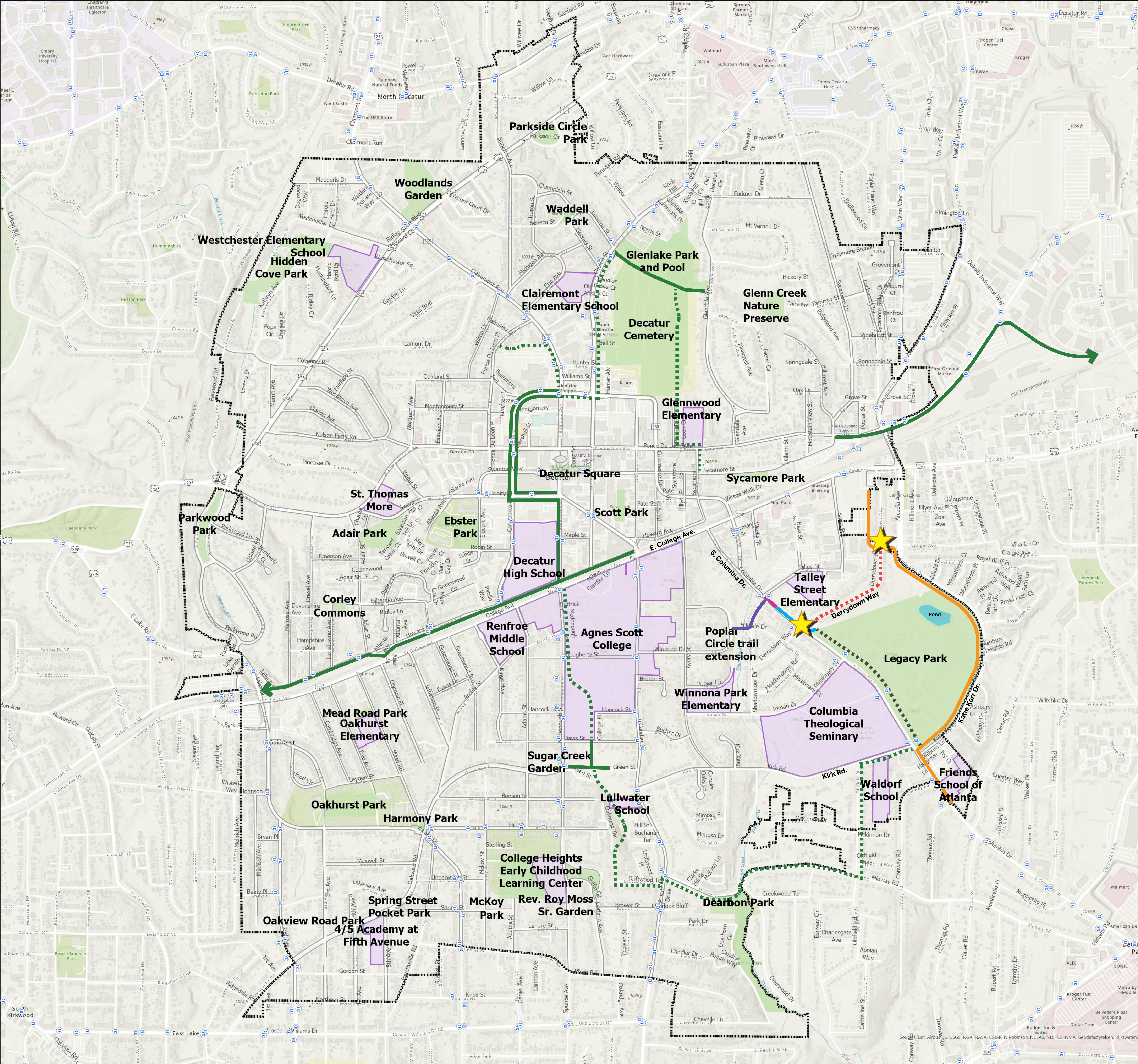
Our Response: The West side does have a steeper topography increasing the design complexity. This would lead to greater property impacts and increased costs to regrade the ground.

## “Cars weaving in and out around bulb outs and parked cars is too dangerous...”

Our response: We understand Derrydown way is a narrow street, any proposed Water Quality Basin as part of water management will be integrated on the South East side where there is already on street parking and will not protrude out more than three feet. Safety is one of our top priorities!

## “Many driveways would need to be reconstructed...”

Our response: This is correct. Many driveways would need to be reconstructed. The recommended South East alignment would require less intrusive reconstruction as the topography is flatter.



Neighborhoods surrounding the site for illustrative purposes only  
Source: Decatur Legacy Park Master Plan

**LEGEND**

- CITY LIMITS
- EXISTING SIDEWALK
- \*DERRYDOWN WAY SIDEWALK (PROPOSED)
- EXISTING PATH
- FUTURE PATH
- EAST DECATUR GREENWAY
- S. COLUMBIA DR. SHARED USE PATH PHASE I
- S. COLUMBIA DR. SHARED USE PATH PHASE II
- \*S. COLUMBIA DR. SHARED USE PATH PHASE III (PROPOSED)
- SHADOWMOOR DR. /HILLDALE DR. SIDEWALK
- PARK/OPEN SPACE
- SCHOOL/COLLEGE
- \*PROJECT AREA
- EXISTING MARTA BUS STOP
- PROJECT BEGIN / END

\*Disclaimer: The alignment provided is for conceptual purposes only and should not be regarded as the definitive or final design.



# CONTEXT MAP DERRYDOWN WAY SIDEWALK

# BENEFITS OF WATER QUALITY BASIN

## 1 WATER QUALITY IMPROVEMENT

"...Protect water quality by managing stormwater as close to its source as possible via infiltration into soils, evapotranspiration via plants, and/or harvesting for use. These techniques reduce the opportunity for stormwater to run off, entrain pollutants, and discharge pollutants to waters."

- United States EPA

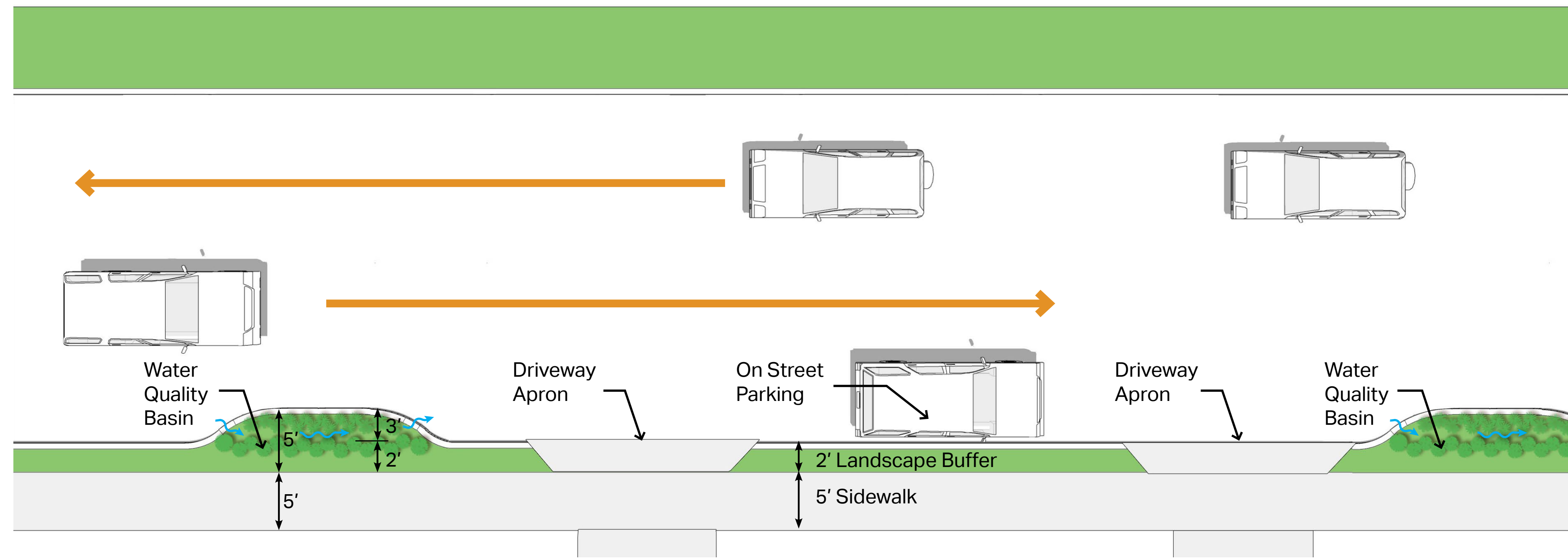
## 2 REDUCE PEAK DISCHARGE RATE

The natural processes of Infiltration and storage reduce runoff volumes and attenuates peak flows. Meanwhile, biological and chemical reactions occur in the mulch, soil matrix, and root zone. Stormwater is filtered through vegetation and soil.

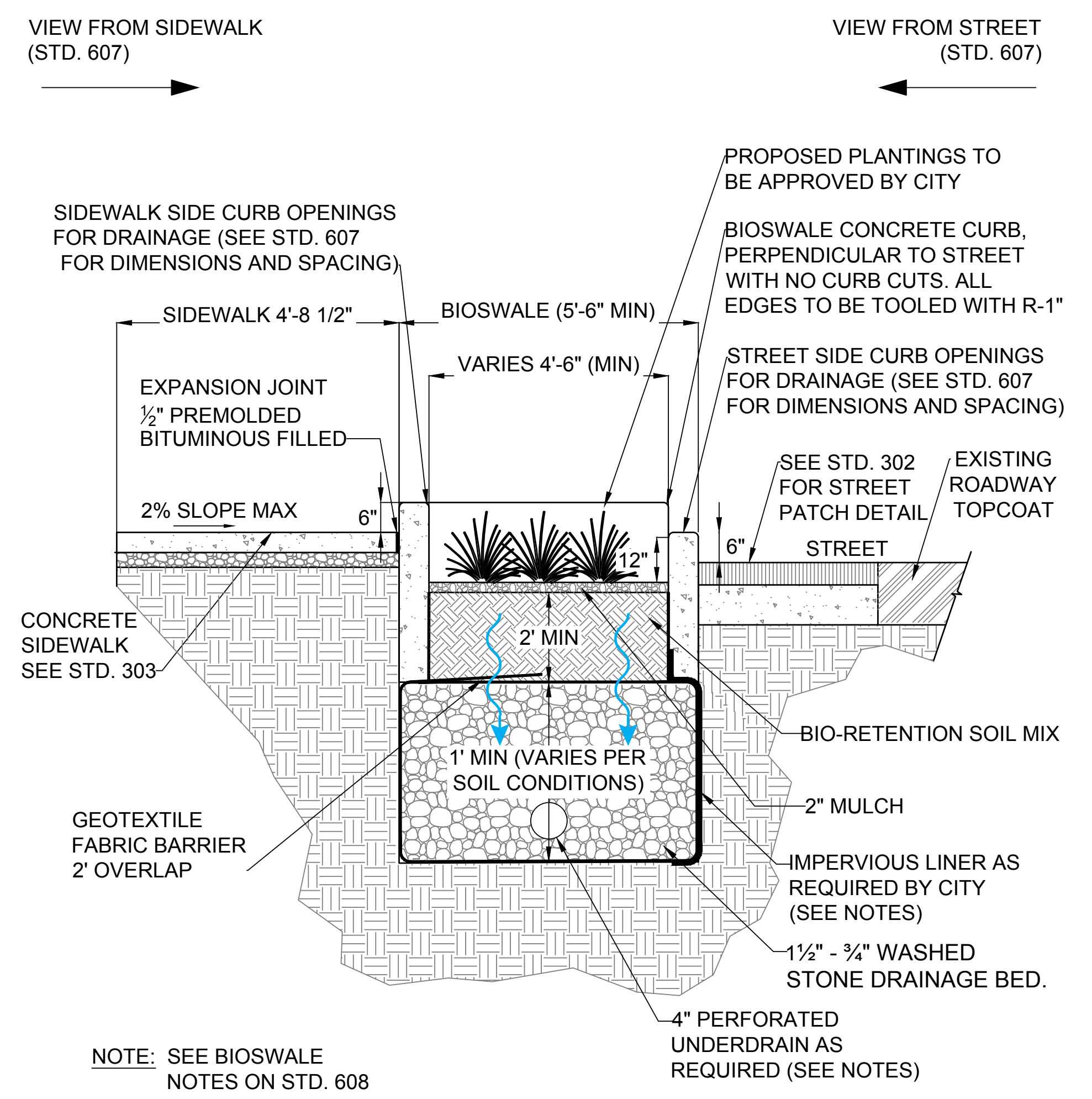
## 3 AESTHETICALLY PLEASING

Water Quality Basin is an aesthetically pleasing green street strategy that can be easily incorporated into different landscapes. A variety of vegetation can also be used, including grass, perennial plants, shrubs, and trees.

## 4 PROTECT ON-STREET PARKING



## 5 ADDITIONAL BUFFER FOR PEDESTRIAN SAFETY



### WATER QUALITY BASIN EXAMPLES



# BENEFITS OF PERMEABLE PAVEMENT

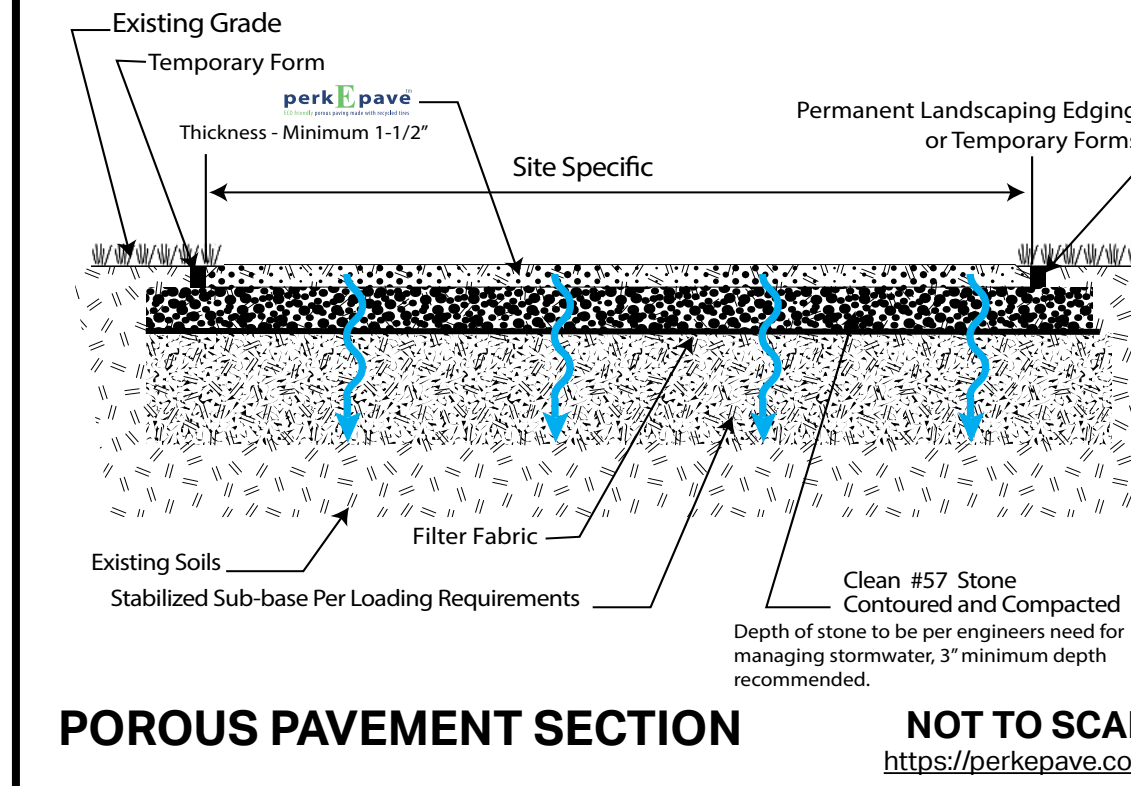
"Permeable pavement is a porous urban surface composed of open pore pavers and concrete with an underlying stone reservoir. Permeable pavement catches precipitation and surface runoff, storing it in the reservoir while slowly allowing it to infiltrate into the soil below or discharge via a drain tile."

-USGS

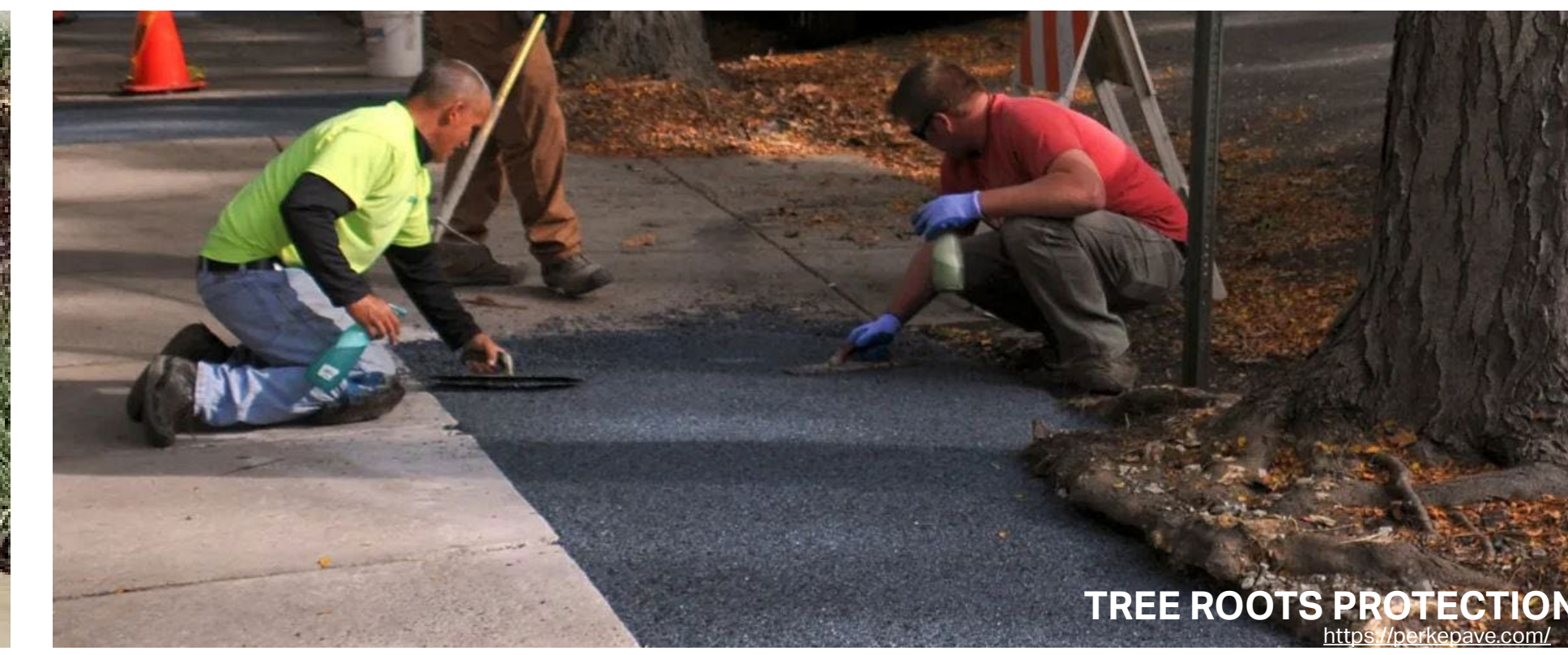
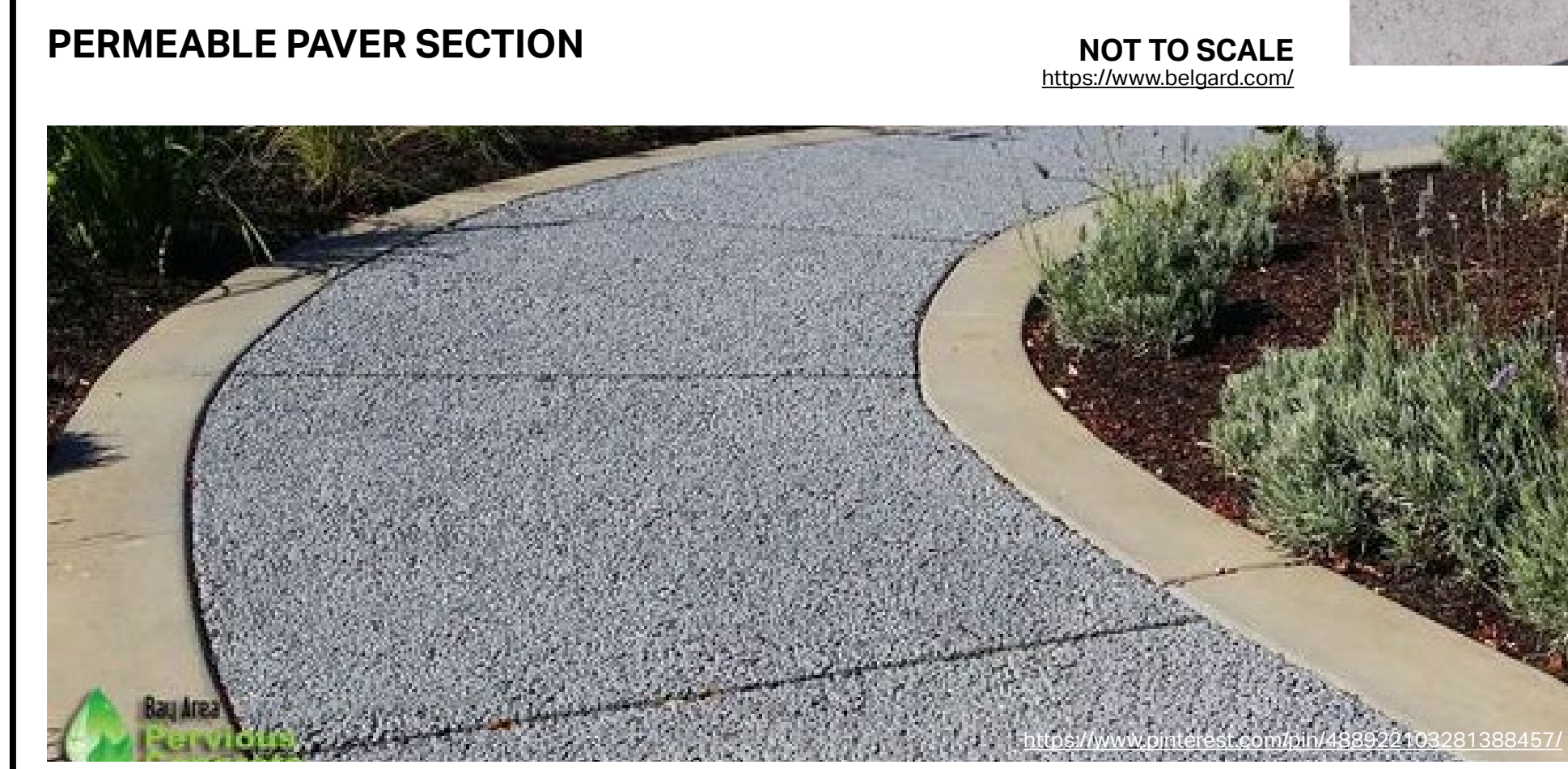
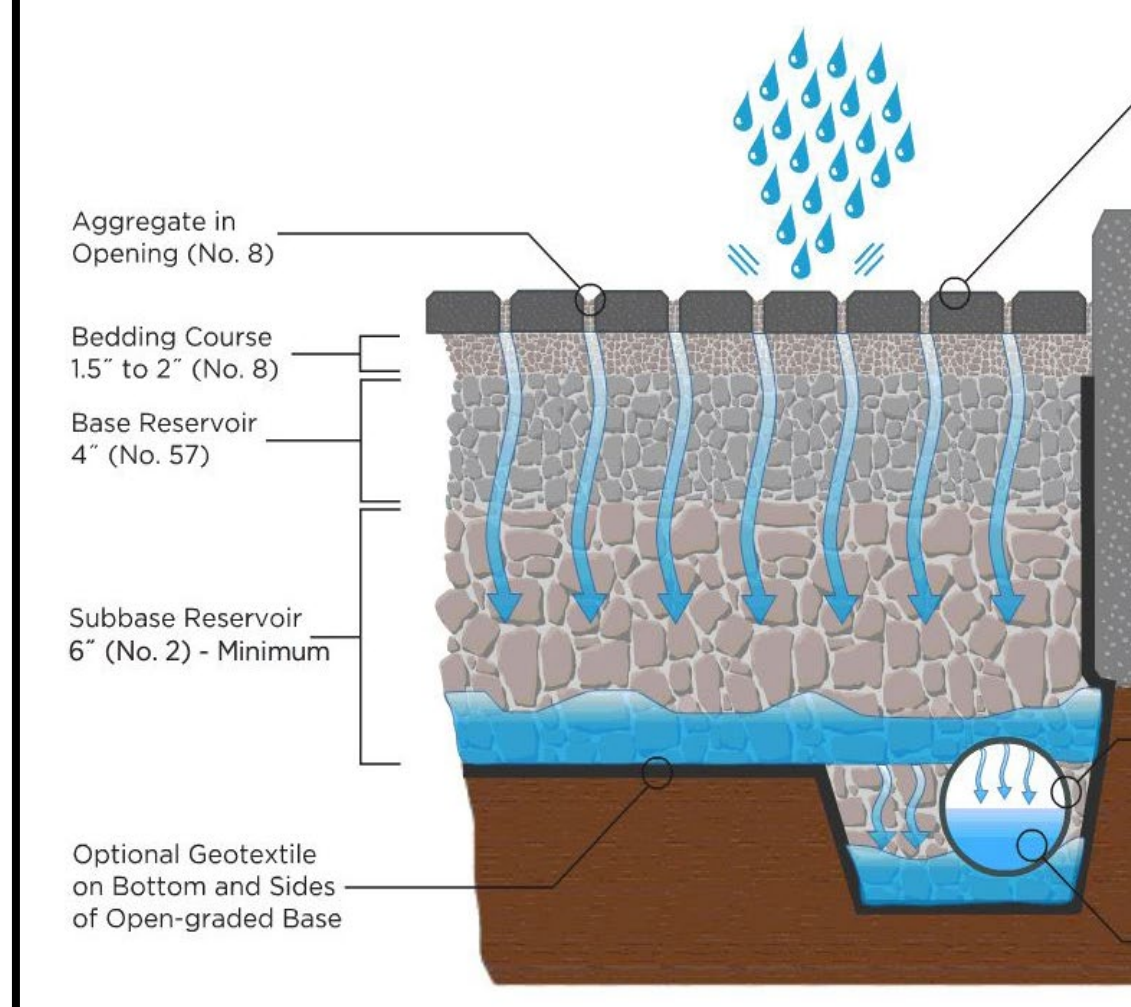
## 1 TREE PROTECTION

## 2 AESTHETICS

## 3 COOL DOWN THE TEMPERATURE OF URBAN RUNOFF



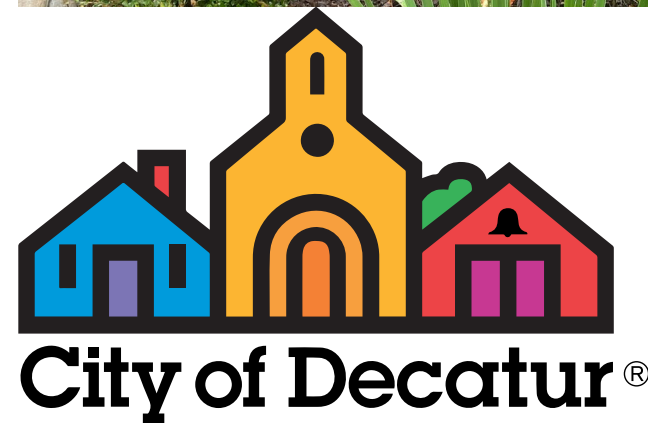
Legacy Parks Foundation  
Collier Preserve  
316 W Emory Rd  
Powell, TN



### PLANTS FOR WATER QUALITY BASIN CONSIDERATION



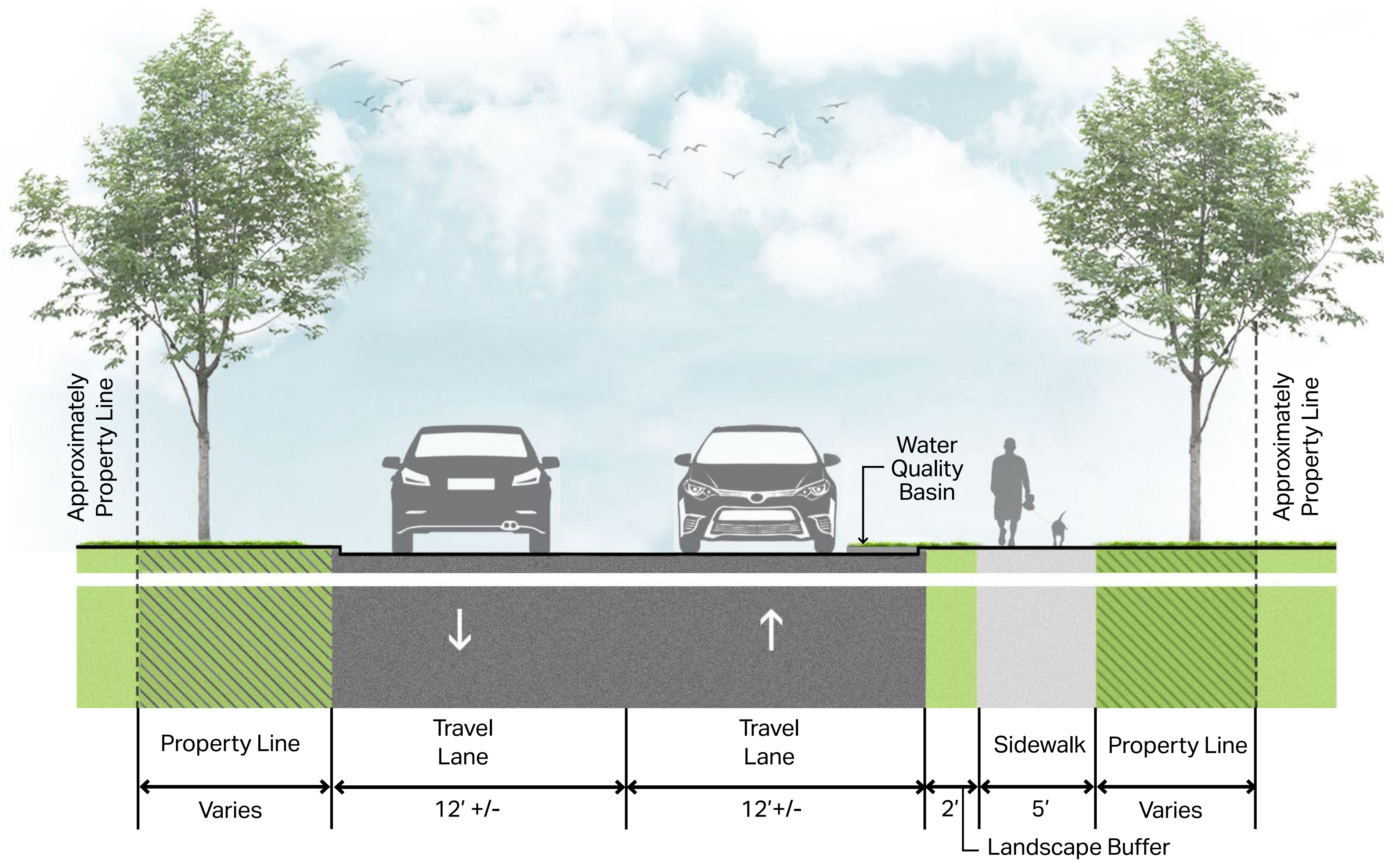
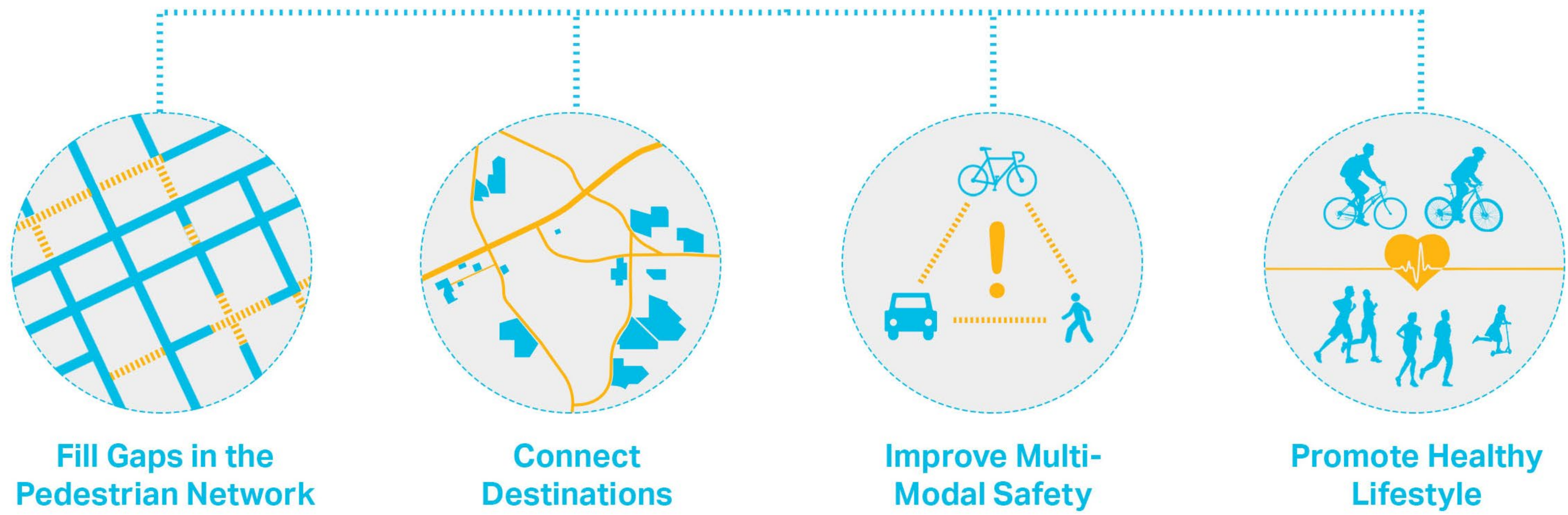
# BENEFITS OF WATER QUALITY BASIN/PERMEABLE PAVEMENT DERRYDOWN WAY SIDEWALK



NOVEMBER 2023

# BENEFITS OF SIDEWALKS

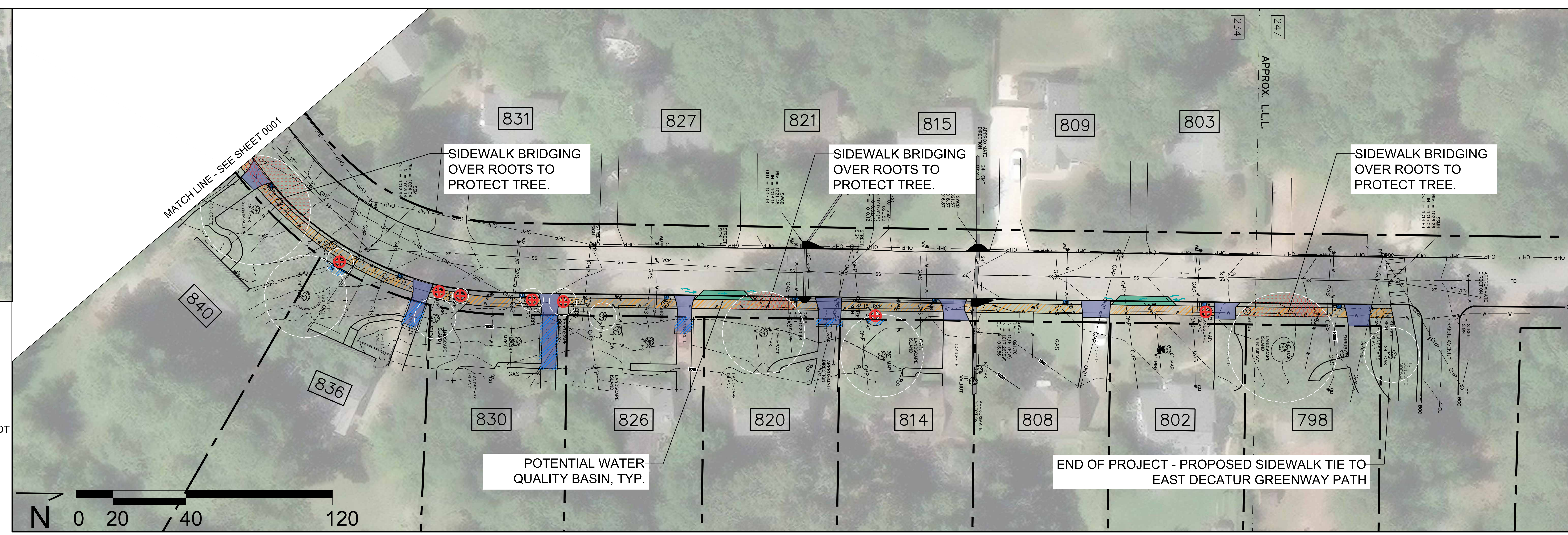
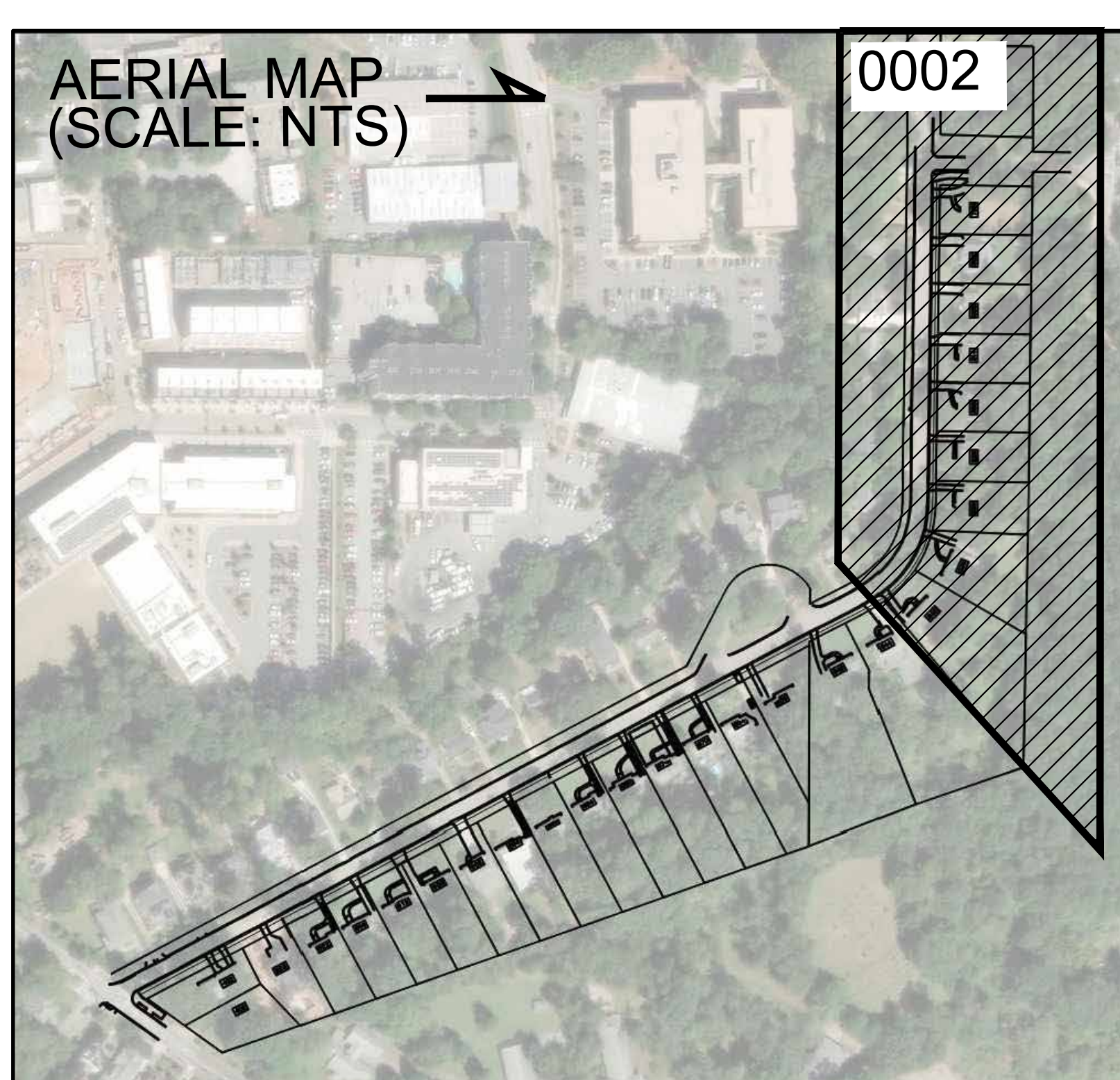
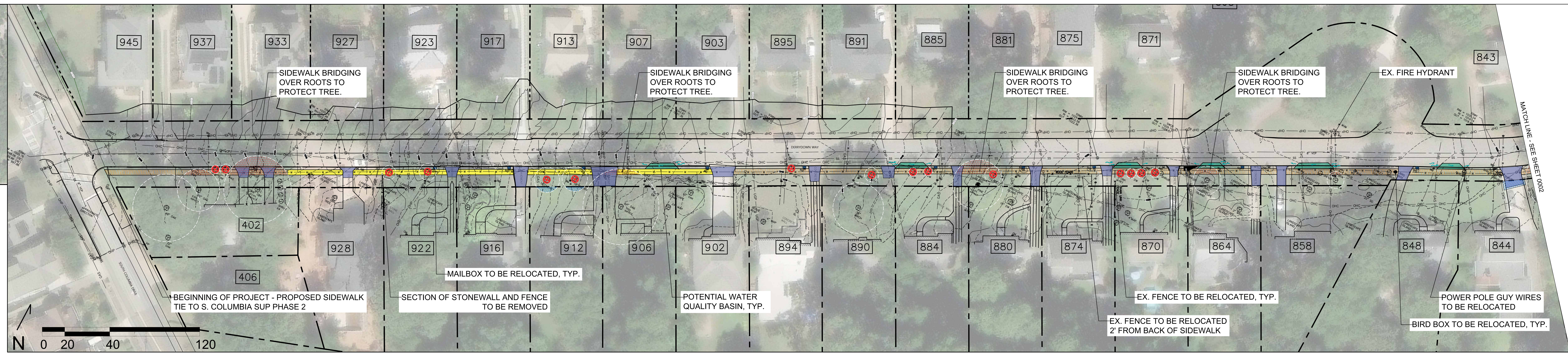
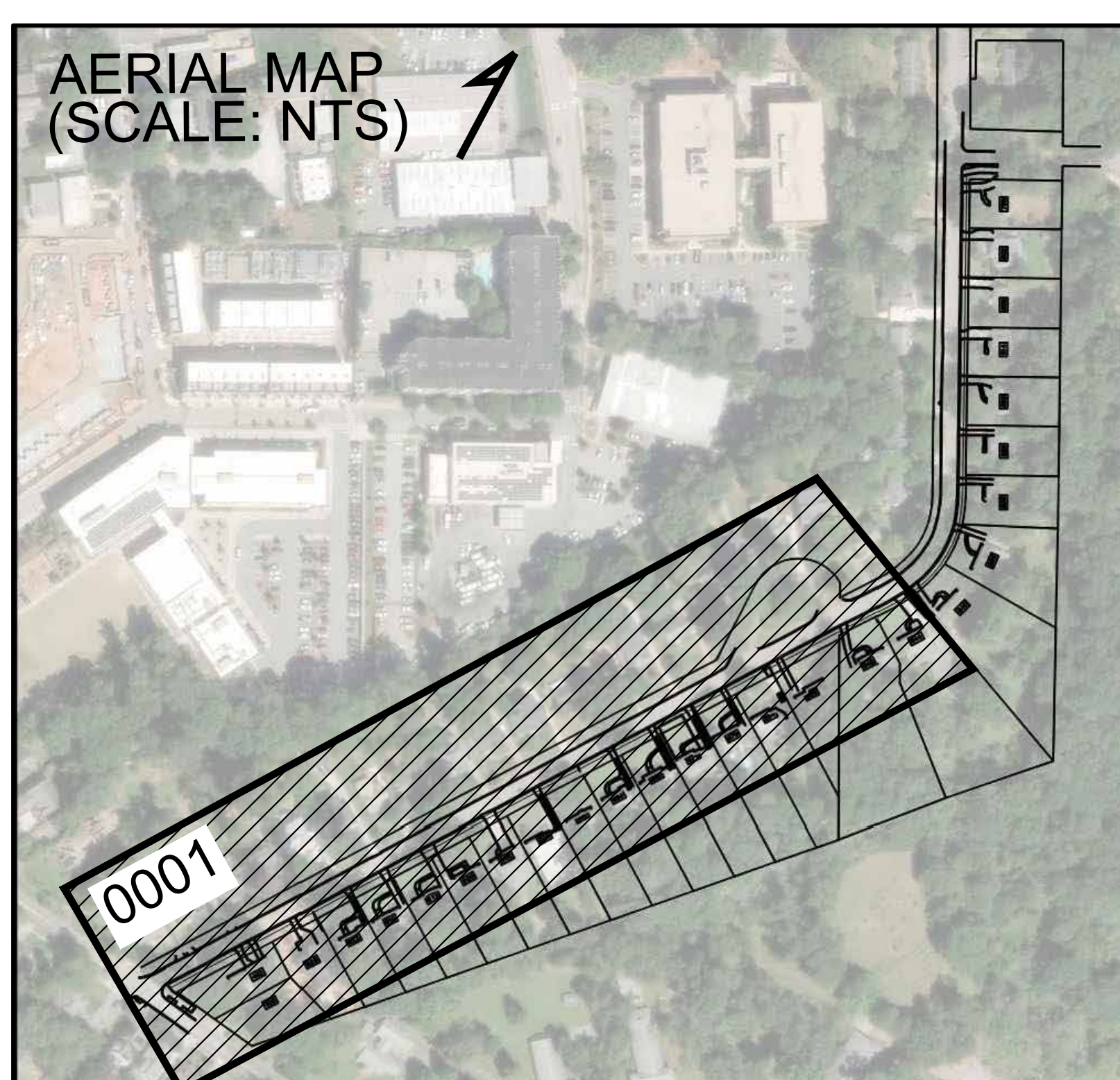
- 1 SAFETY:** Providing a designated space for pedestrians, keeping people safe from vehicular traffic
- 2 PROMOTION OF PHYSICAL ACTIVITY:** Improving public health by promoting exercise
- 3 ENHANCED COMMUNITY CONNECTIVITY:** Connecting neighborhoods, schools, parks, and businesses
- 4 ENVIRONMENTAL BENEFITS:** Decreasing air pollution and lowering carbon emissions by reducing the dependency on cars
- 5 IMPROVED QUALITY OF LIFE:** Creating more pleasant and inviting public spaces



## SIDEWALK EXAMPLES



# BENEFITS OF SIDEWALKS DERRYDOWN WAY SIDEWALK



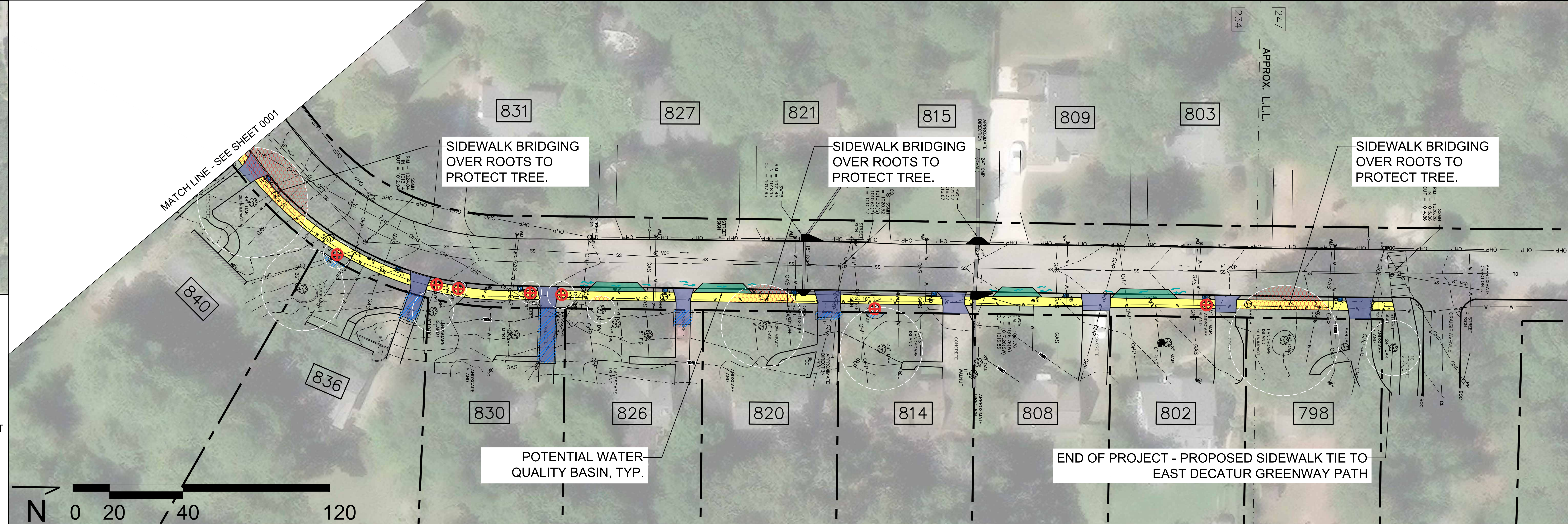
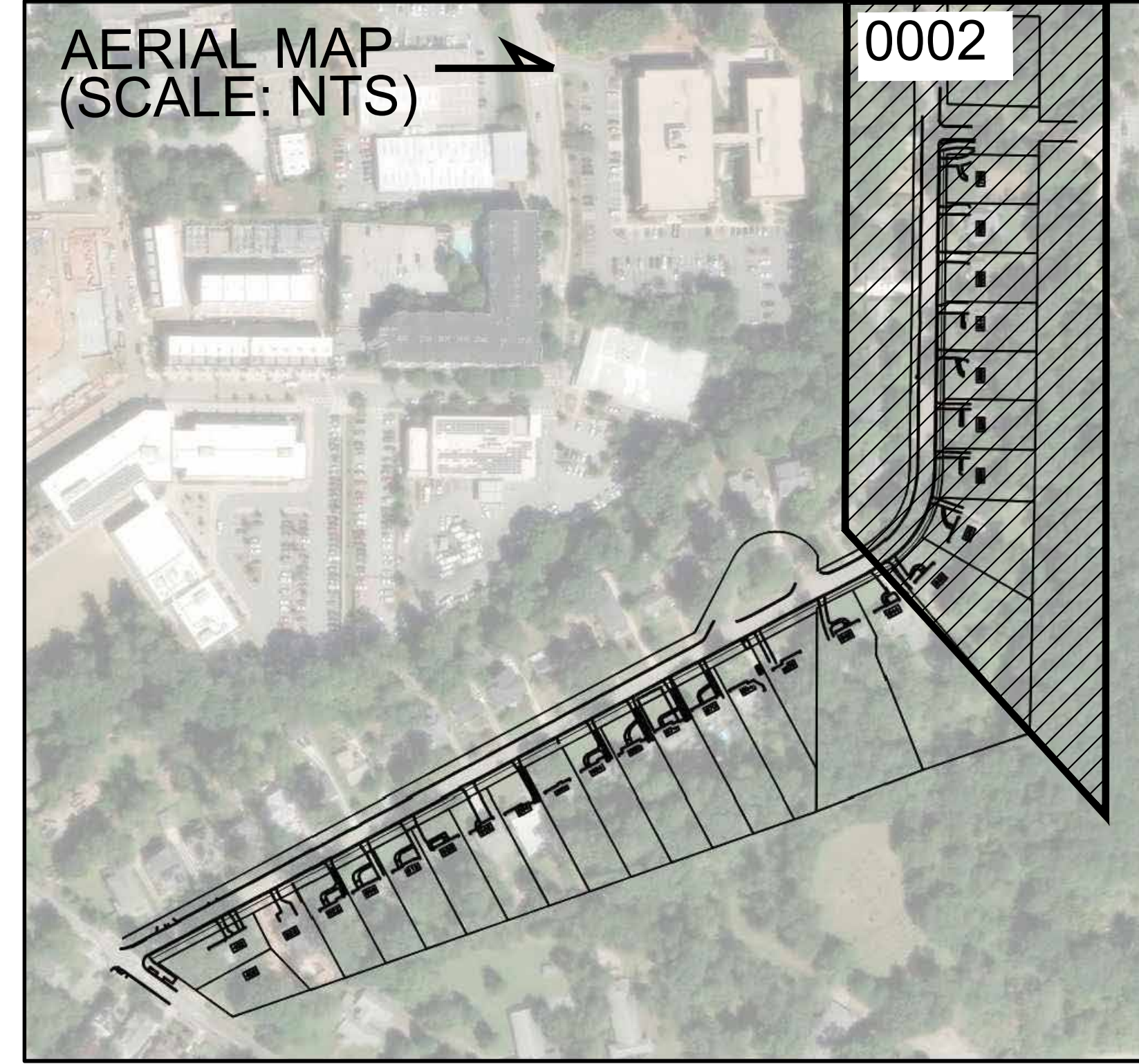
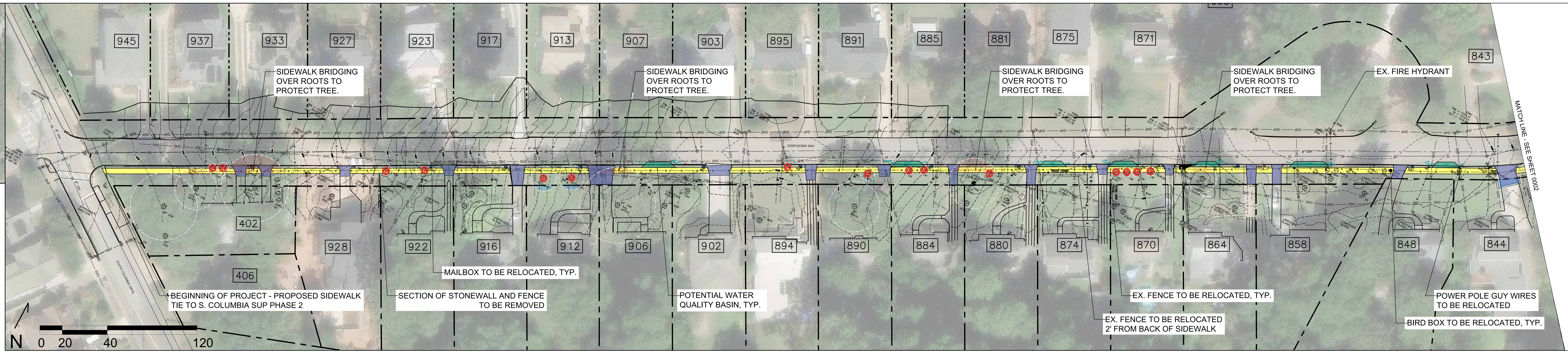
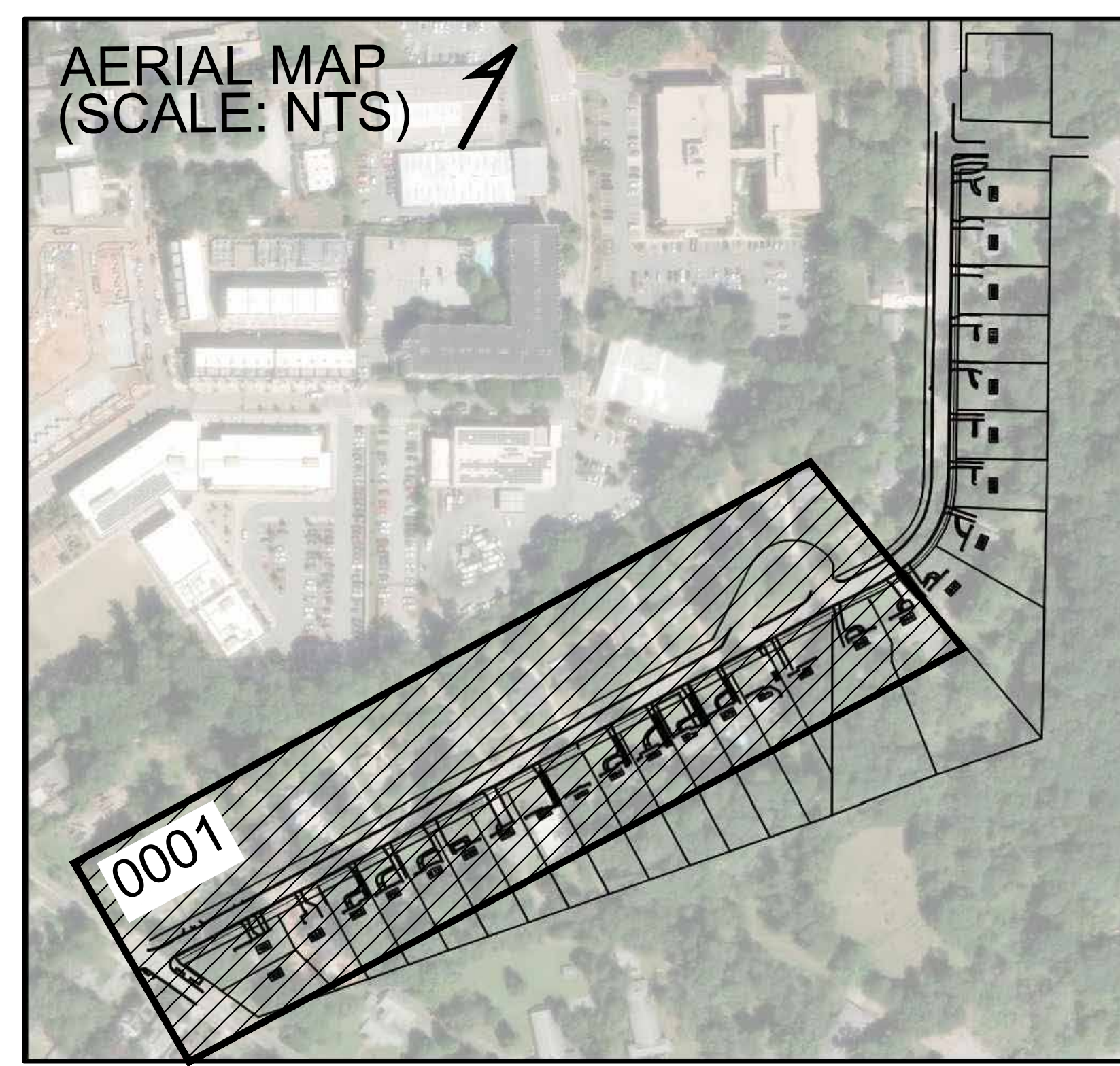
**LEGEND:**

|  |                              |
|--|------------------------------|
| PROPOSED CONCRETE SIDEWALK                     | PROPOSED TREE TO BE REMOVED  |
| PROPOSED PERMEABLE PAVEMENT SIDEWALK           | IMPACTED TREE ROOTS          |
| APPROXIMATELY EXISTING DRIVEWAY RECONSTRUCTION | TREE CRITICAL ROOT ZONE      |
| TEMPORARY CONSTRUCTION EASEMENT                | PROPOSED WATER QUALITY BASIN |
| MAIL BOX TO BE RELOCATED                       | PROPERTY LINE                |

| Derrydown Way Sidewalk - Project Decision Matrix |   |   |   |   |                |
|--|---|---|---|---|----------------|
|  | Safety  | Topography Considerations/<br>Property Impacts  | Utility Considerations  | Tree Considerations   | Estimated Cost |
| North/West                                       | <ul style="list-style-type: none"> <li>Blind corner on North/West side with minimal viewing distance is not preferred</li> </ul>  | <ul style="list-style-type: none"> <li>More challenging topography, increased impacts on properties</li> <li>23 Driveways impacted (+/-)</li> <li>Moderate to High cost for retaining wall construction</li> <li>Approximately 144 LF of retaining wall will be needed to meet ADA requirements at 831 Derrydown Way, Wall height varies from 2' to 3' (+/-)</li> </ul> | <ul style="list-style-type: none"> <li>13 Powerpoles (+/-)</li> <li>1 fire hydrant (+/-)</li> <li>1 above ground utility box (+/-)</li> </ul> | <ul style="list-style-type: none"> <li>18 Trees impacted (+/-)</li> </ul> | \$\$\$\$       |
| South/East<br><b>(Recommended)</b>               | <ul style="list-style-type: none"> <li>South/East side parking provides a buffer between roadway and proposed sidewalk</li> </ul> | <ul style="list-style-type: none"> <li>Relatively flat, better topography</li> <li>25 Driveways impacted (+/-)</li> <li>Reduced impacts on properties/yards</li> </ul>  | <ul style="list-style-type: none"> <li>2 Powerpoles (+/-)</li> </ul>  | <ul style="list-style-type: none"> <li>22 Trees impacted (+/-)</li> </ul> | \$\$\$         |



# DERRYDOWN WAY SIDEWALK ALIGNMENT OPTION A



| Derrydown Way Sidewalk - Project Decision Matrix |   |   |   |   |                |
|--|---|---|---|---|----------------|
|  | Safety  | Topography Considerations/<br>Property Impacts  | Utility Considerations  | Tree Considerations   | Estimated Cost |
| North/West                                       | <ul style="list-style-type: none"> <li>Blind corner on North/West side with minimal viewing distance is not preferred</li> </ul>  | <ul style="list-style-type: none"> <li>More challenging topography, increased impacts on properties</li> <li>23 Driveways impacted (+/-)</li> <li>Moderate to High cost for retaining wall construction</li> <li>Approximately 144 LF of retaining wall will be needed to meet ADA requirements at 831 Derrydown Way, Wall height varies from 2' to 3' (+/-)</li> </ul> | <ul style="list-style-type: none"> <li>13 Powerpoles (+/-)</li> <li>1 fire hydrant (+/-)</li> <li>1 above ground utility box (+/-)</li> </ul> | <ul style="list-style-type: none"> <li>18 Trees impacted (+/-)</li> </ul> | \$\$\$\$       |
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**LEGEND:**

- PROPOSED CONCRETE SIDEWALK
- APPROXIMATELY EXISTING DRIVEWAY RECONSTRUCTION
- TEMPORARY CONSTRUCTION EASEMENT
- MAIL BOX TO BE RELOCATED
- PROPOSED TREE TO BE REMOVED
- IMPACTED TREE ROOTS
- TREE CRITICAL ROOT ZONE
- PROPOSED WATER QUALITY BASIN
- PROPERTY LINE



# DERRYDOWN WAY SIDEWALK ALIGNMENT OPTION B