1. Project Background
2. Existing Conditions Analysis
3. Examples from Elsewhere
4. Discussion
Project Goals

1. Prepare a 15% Concept Design for the LSC Loop Trail

2. Develop an implementation and funding strategy for the trail

3. Work toward satisfying a key GSSC Master Plan staging requirement:

   Prior to Stage 2, “fund the LSC Loop trail in the County’s six-year CIP and/or through developer contributions as part of plan approvals”
## Project Scope

### PHASE 1: PROJECT INITIATION / EXISTING CONDITIONS ASSESSMENT
1. Kickoff Meeting
2. Background data review and existing conditions assessment
3. Advisory Committee Meeting #1

### PHASE 2: 15% CONCEPT DESIGN
1. Alternative Trail Concepts
2. Advisory Committee Meeting #2
3. Draft 15% Concept Design
4. Advisory Committee Meeting #3
5. Final 15% Concept Design

### PHASE 3: IMPLEMENTATION & FUNDING STRATEGY
1. Draft Implementation and Funding Strategy
2. Advisory Committee Meeting #4
3. Final Implementation and Funding Strategy

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<th>December - February</th>
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### Advisory Committee Meetings

- Meeting #1 (Tonight): Vision, Goals, Criteria
- Meeting #2: Alternative Concepts
- Meeting #3: Draft Concept Design / Implementation and Funding
- Meeting #4: Implementation and Funding Strategy
GSSC MASTER PLAN VISION
“Create the LSC Loop as the organizing element of the open space plan to connect districts and destinations, incorporate natural features, and provide opportunities for recreation and non-motorized transportation”

The LSC Loop will:
• Run alongside existing streets
• Incorporate proposed multi-use path along CCT
• Connect with other destinations, activities and neighborhoods in the surrounding area
• Be the primary amenity requested of property owners
GSSC Master Plan & Urban Design Guidelines

- Identifiable placemaking feature
- Marked road crossings
- Signage and special paving to distinguish from sidewalk
- Creative use of materials
- Street furniture accessible to trail

On-Road with CCT

On-Road without CCT

Off-Road
EXISTING CONDITIONS ANALYSIS
Challenges & Opportunities

Potential Loop Trail
Proposed CCT
Transit easement
Proposed CCT Station
Slope on inner edge of sidewalk
Mature trees
Structural barrier
Missing connection
Major road crossing
Possible loop spur
Space for wider trail
CCT/Roadway reconstruction
Possible loop trail extension
LSC Districts

LSC BELWARD: Science & Research Community

LSC WEST: Residential Community

LSC NORTH: Residential & Office

LSC CENTRAL: Medical & Biotech Community
LSC LOOP TRAIL WALKING TOUR
Loop Trail Walking Tour
Challenge:

- Existing planting buffer between inner edge of sidewalk and parking lot
Loop Trail Walking Tour

Challenges:

- No existing planting strip between sidewalk and roadway
- Slope down to adjacent parking lot
Loop Trail Walking Tour

Challenge:
• Utilities in the sidewalk obstruct Loop Trail route

Opportunity:
• Open space next to sidewalk could be used to re-route trail
Challenge:
- Key West crossing: wide roadway, lack of refuge

Loop Trail Walking Tour

Omega Drive/Medical Center Drive at Key West Avenue

LSC NORTH
Medical Center Drive

Challenges (throughout Medical Center Drive):

- Mature trees potentially limit opportunities to utilize tree strip
- Trees are planted close to sidewalk
Loop Trail Walking Tour

Challenge:

- Walls, signs and landscaping on private property inside the sidewalk limit opportunities to expand the trail cross-section
Opportunities:

- Wide landscape buffers
- Potential interface with retail/restaurants, outdoor plaza, and Capital Bikeshare station
Loop Trail Walking Tour

**Challenge:**
- Slopes next to sidewalk: utilizing adjacent space would require regrading and retaining walls
Loop Trail Walking Tour

Challenges:

• Slopes next to sidewalk: significant regrading and construction of retaining walls may be required to utilize space

• Drainage infrastructure limits potential use of space
Loop Trail Walking Tour

Opportunities:

- Open space at Shady Grove Adventist Hospital as potential spur trail and connection to hospital
Loop Trail Walking Tour

LSC CENTRAL
Medical Center Drive

Challenges:
• Driveway crossings
• Walls and signage

Opportunity:
• Potential connection into hospital campus
Loop Trail Walking Tour

Challenge:

- Slopes next to sidewalk: significant regrading and construction of retaining walls may be required to utilize space
Opportunity:

• Construction of CCT on Medical Center Drive west of Broschart Road could expand available space for the trail by shifting curb to the south.
Loop Trail Walking Tour

New Road through PSTA Property

Opportunities:

• Potential to incorporate wide trail alignment as part of future roadway design and master planning

• Potential to connect and integrate with future Heinz development and proposed open spaces
Loop Trail Walking Tour

Opportunity:

• Construction of CCT could expand available space for the trail
Loop Trail Walking Tour

Opportunities:
- Relatively wide space to accommodate trail
Loop Trail Walking Tour

Challenges:

- How to connect to Great Seneca Hwy. / Decoverly Dr.
- Forested area with steep topography
- No existing crossing on Great Seneca Hwy.

Belward Campus Drive
Loop Trail Walking Tour

LSC NORTH

Decoverly Drive
(South of Diamondback Drive)

Challenge:
- Slopes next to sidewalk: significant regrading and construction of retaining walls may be required to utilize space
Decoverly Drive  
(South of Diamondback Drive)

Opportunities:

• Relatively wide space in ROW to accommodate loop trail (16’ from curb to edge of sidewalk)

• Existing unused transit easement could be utilized for wider trail segment
Challenge:

- Slopes next to sidewalk: significant regrading and construction of retaining walls may be required to utilize space.
Loop Trail Walking Tour

Challenges:
- Steep slopes
- Culvert and drainage infrastructure

Decoverly Drive
(North of Diamondback Drive)
Loop Trail Walking Tour

**Opportunities:**

- Proposed extension over culvert as part of CCT construction
- Potential opportunity to expand space available for trail, as part of CCT construction
Existing Conditions Summary

Challenges
• Narrow width of available space, in some segments
• Topography
• Mature street trees
• Infrastructure constraints
• Street and driveway crossings
• Connection to and across Great Seneca Highway

Opportunities
• Opportunities for wider trail segments
• Unused transit easements
• Potential trail spurs or ROW expansion into private property
• Connections to / integration with major destinations and activity centers

Unresolved Issues
• CCT cross-sections: additional space for trail?
• On-street bike lane, in addition to trail?
• Other opportunities to shift existing curb alignment on Medical Center Drive (i.e., off-peak parking/travel lane or reduced lane widths)?
EXAMPLES FROM ELSEWHERE
Examples from Elsewhere

Standard Asphalt Trail
Examples from Elsewhere

What makes this trail different?
The Indianapolis Cultural Trail
The Indianapolis Cultural Trail
Signage and Wayfinding
Street Furniture
Pavers
Low Impact Development / Vegetation
Crossings
DISCUSSION & NEXT STEPS
Discussion

1. What are your vision and goals for the LSC Loop Trail?

2. Are there specific trail opportunities you would like to see explored as part of the trail alternatives?

3. What factors will we need to consider in exploring the trail design and potential trail alignments?

4. What criteria should guide the development of the trail concept design?
Next Steps

- Development of alternative concepts
- Second Advisory Committee meeting