



cape la croix trail

master plan • city council presentation



agenda

- Project Overview
- Public Input Summary
- Existing Conditions Analysis
- Emerging Master Plan Overview and Concepts
- Questions/Comments



overview

- 4.5 miles of off-street asphalt trail
- Started in 1993 with last segment completed in 2011
- Master Plan will address:
 - Trail Deficiencies/Attributes
 - Recommendations
 - Trail Amenities and Branding Standards
 - Cost Estimates and Priorities

stakeholder interviews

What potential Amenities would you like to have added to the Cape La Croix System?

- Widening of trail whenever possible.
- Pet Amenities.
- Mile Markers.
- Additional Trail Head Locations.
- Additional Drinking fountains.
- Emergency Call Phones
- Educational/Informational Signage along the Trail.
- Additional Park Benches.
- Trail Extension to loop around City.



stakeholder interviews

Top priorities (Not listed in any priority order.)

- Trail safety.
- Widen trail.
- Play activities for children along trail.
- Extend trail system.
- Add center lane stripe.
- Fitness trail stations/stretching stations.
- Additional restroom locations.
- Improved trail lighting.



stakeholder interviews

Top priorities (Not listed in any priority order.)

- Additional rest areas.
- Less mowing of the turf and increased use of native plant material.
- Cleanliness of the trail system.
- Create smaller loops within parks connected along trail.



existing conditions analysis

Analysis revealed the following:

■ Lighting:

- Generally lacking

■ Underpasses:

- Lack of adequate width
- Blind corners
- Obstacles within 2 feet of trail edge
- Hazardous safety barriers
- Lack of adequate warning signage



existing conditions analysis

Analysis also revealed:

Comfort Stations:

- Distributions gaps.
- Do not meet current accessibility standards.
- Portable units do not accommodate family use.
- Unheated-unavailable during winter.

Pathway Seating:

- Distributions gaps.
- Do not meet current accessibility standards.



existing conditions analysis

Analysis revealed the following:

■ Trail Nodes & Parking

- Lack of adequate facilities such as:
 - Pavement
 - Drinking Fountains
 - Bike Amenities such as Racks, Air Pumps
 - Seating



existing conditions analysis

Analysis also revealed:

Bridges:

- Inadequate min. clear width.
- Camber which exceeds current accessibility standards.
- Lack of safety barriers at abutments.
- Alignment/Corners.

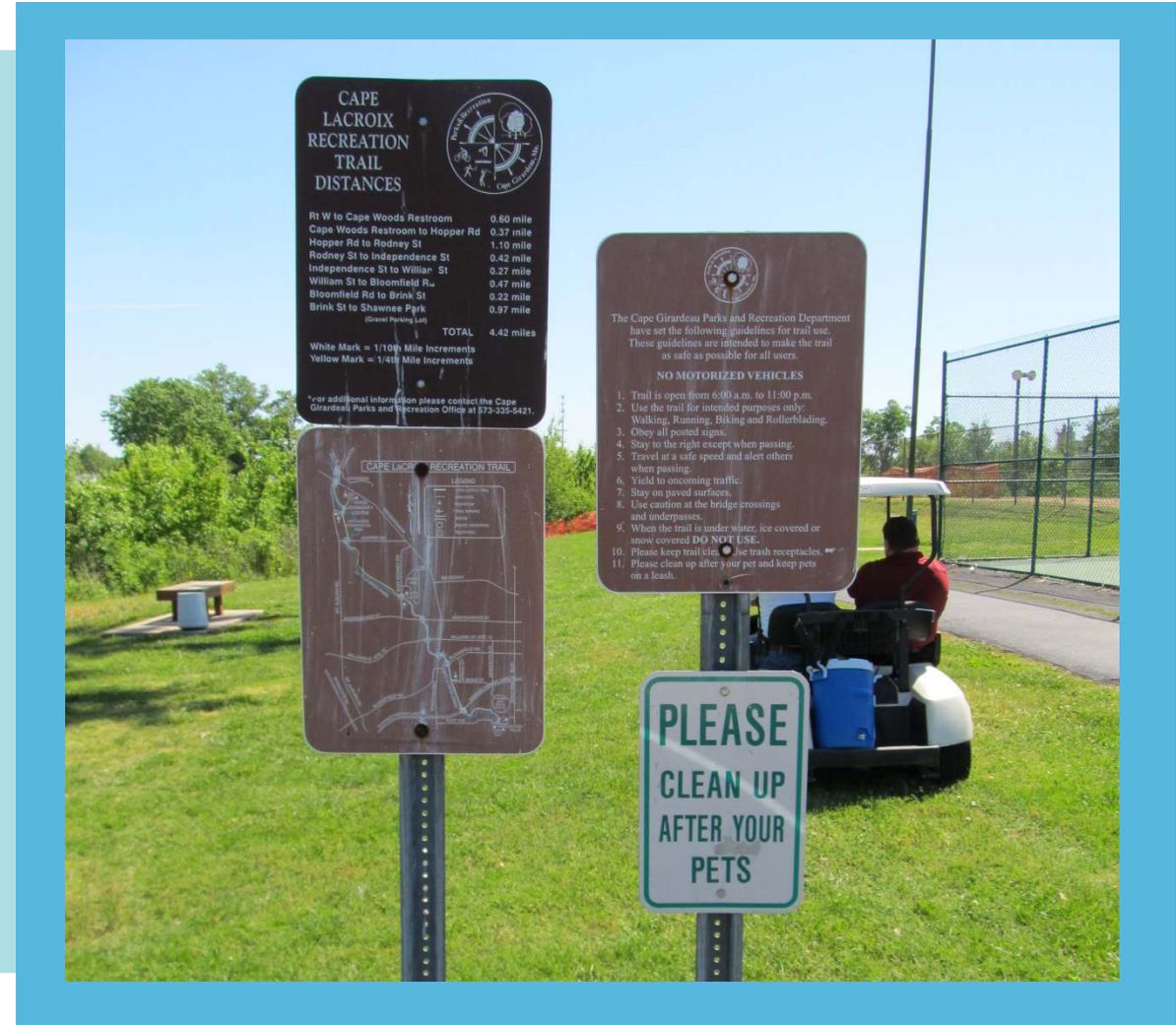


existing conditions analysis

Analysis revealed the following:

■ Signage:

- No consistent theme or unified image.
- Lack of approach/warning signs.
- Lack of signage at grade separated crossings for user orientation.
- Lack of trail rules or etiquette.
- Mile marker chaos

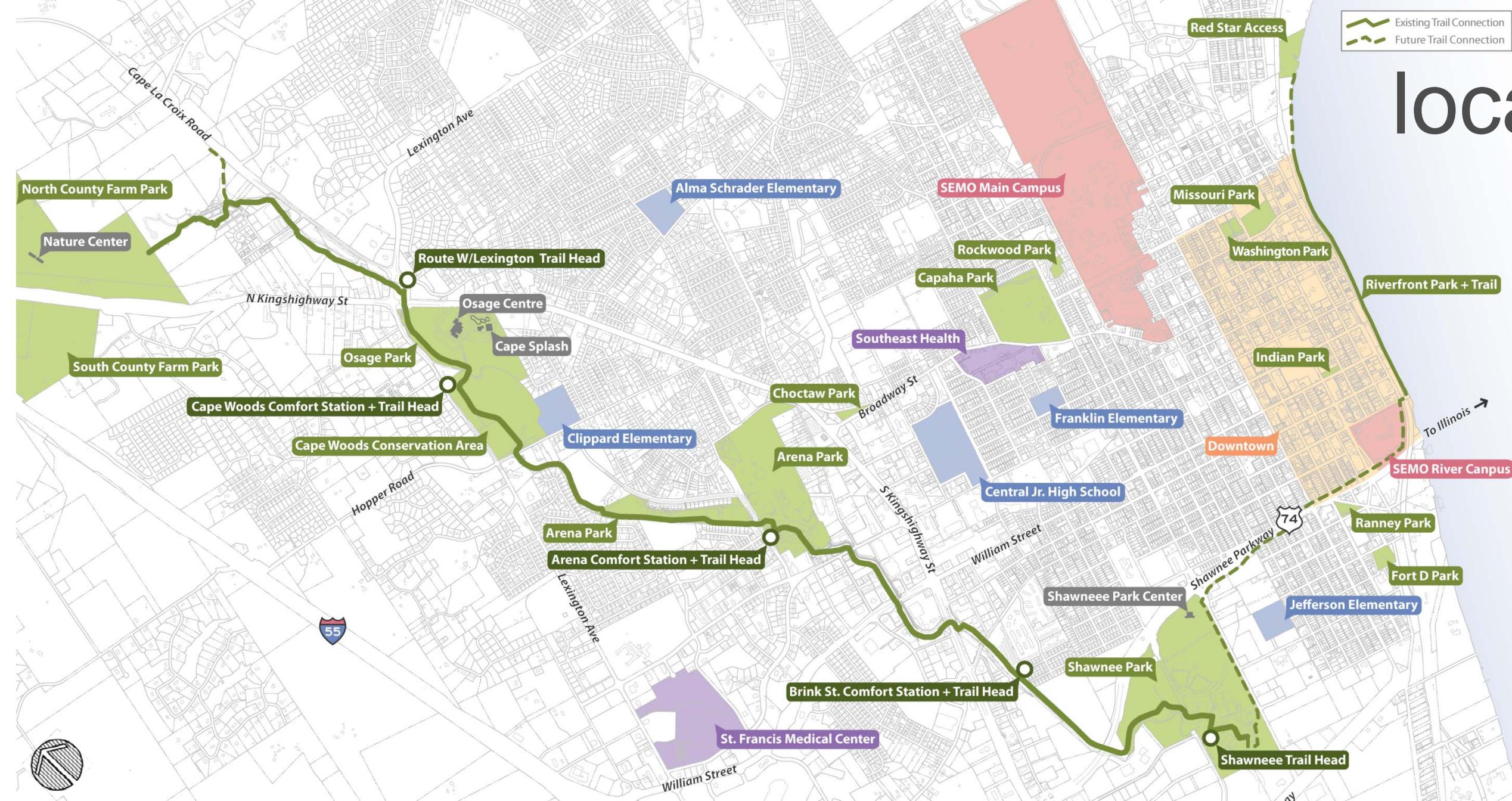




master plan

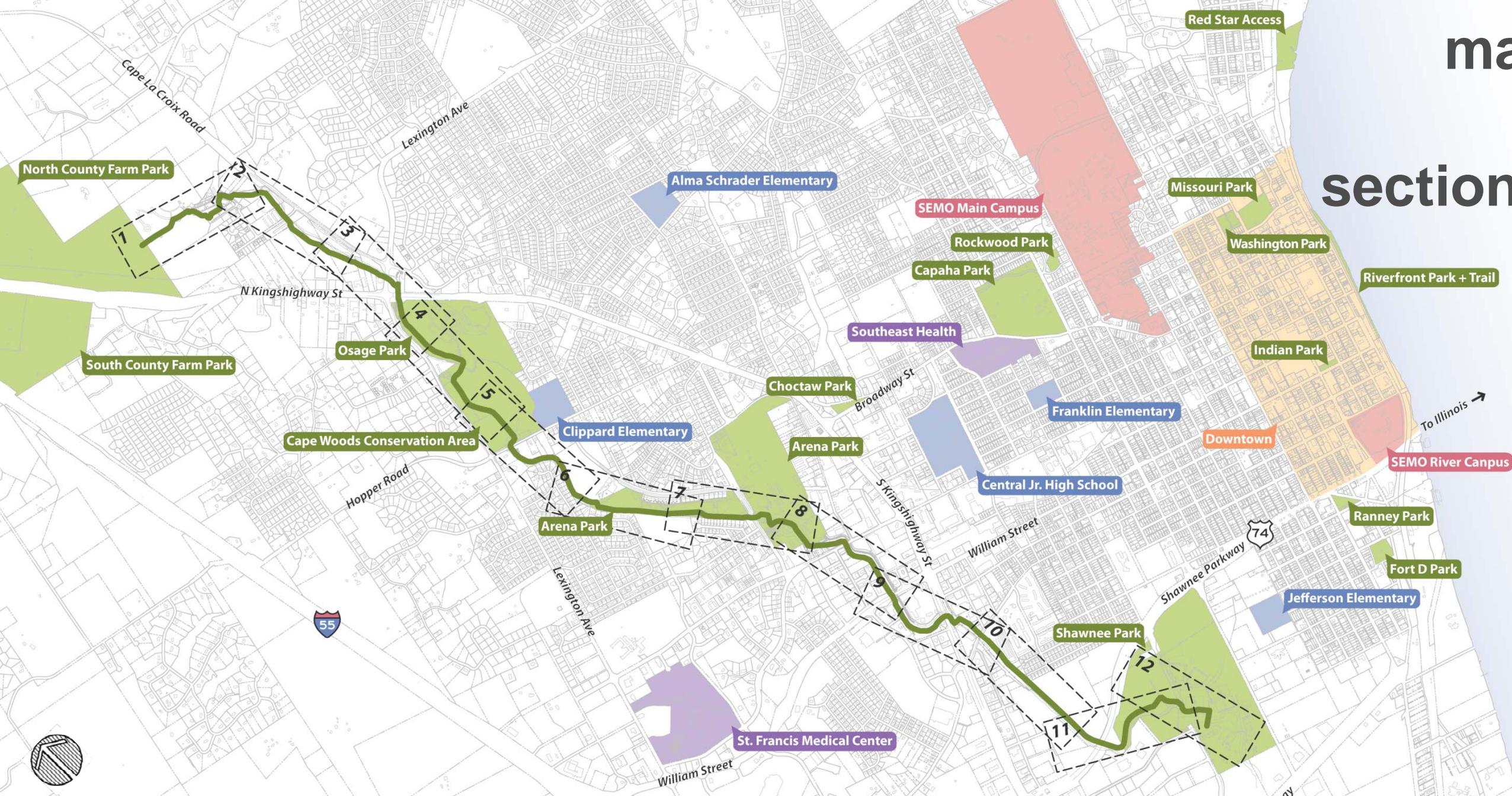
Existing Trail Connection
Future Trail Connection

location map



map key

sections 1 - 12



ATTRIBUTES

- Connections and linkages to major park and recreation assets in the Cape Girardeau community.
- Connections to separate community neighborhoods and community uses such as commercial, schools, residential, and industrial.
- Well loved and utilized by citizens and community groups for events.
- Multiple and varied natural environments along the Trail.
- New connections have allowed the Trail length to expand to nearly 5 miles.
- Varied Visual and Spatial Experiences along the Trail.
- Trail has no road crossings.

DEFICIENCIES

Safety

- Substandard Trail design at bridge underpasses, including narrow width, safety rails that pose potential hazard and blind approaches/limited visibility along curves.
- Obstacles within 2 foot clear zones of trail edges.
- Minimal security level lighting and safety barriers at bridges, and adjoining bridge abutments pose potential safety hazard.
- Lack of appropriate Trail branding and signage creates confusion for some Trail users.

Functional

- Narrow Trail width and lack of center lane striping.
- Lack of ADA accessibility at some locations.
- Substandard number of year round restroom facilities , access to potable water and support amenities such as bike racks, seating, pet amenities, and trail mileage markers.
- Lack of consistent and adequate wayfinding, and signage.

Aesthetic

- Aesthetic improvements should be considered at bridge underpasses.
- Unattractive safety rails at creek crossings.
- Screen undesirable views of adjacent uses and manhole structures.
- Landscape plantings and native plant material that can reduce operational costs.

MASTER PLAN RECOMMENDATIONS

Short Term Trail Branding Improvements

- The new Cape La Croix Trail brand is about discovery and natural systems. A new branding and signage system will change the trail into a friendly space which is easy to navigate and enjoyable to visit.

Short Term Trail Amenity Improvements

- Remove non-accessible and inadequate Trail Amenities with a new palette of Amenities that complement the new Trail Brand. These Amenities will further enhance and enrich the Trail experience (See Trail Amenities section).

Long Term Trail Widening

- To bring the existing trail to current American Association of State Highway and Transportation Officials (AASHTO) standards, the existing trail should be widened from eight feet to twelve feet wide to accommodate the growing number of users.

Long Term Replacement of Bridges

- All of the existing bridge structures should be widened to twelve feet wide, which will ultimately require replacement.

Long Term Safety Improvements at Bridge Underpasses

- To fix blind curves which create safety concerns, the existing retaining walls should be removed and reconstructed further away from the creek channel. Pedestrian and bicycle-compliant railing along the channel side of the Trail should be installed.

TRAIL BRANDING

Trail Head Roadway Column

- A signature column is proposed to be located at each Trail Head near an adjacent roadway to visually mark the Trail Head.

Trail Kiosk/Interpretive Sign

- To be installed at various locations along the Trail to provide Trail System Map on one side and an informational kiosk on the other.

Trail Wayfinding/Directional Sign

- To be installed at locations along the Trail which require signage to direct users to various destinations.

Trail Mile Marker

- A full circle indicates a full mile interval, and a half-filled circle indicates a half mile interval. To be located on both sides of Trail.

Trail Warning Sign

- To be installed at locations along the Trail to communicate a simplified warning, i.e. Warning - Blind Curve Ahead.

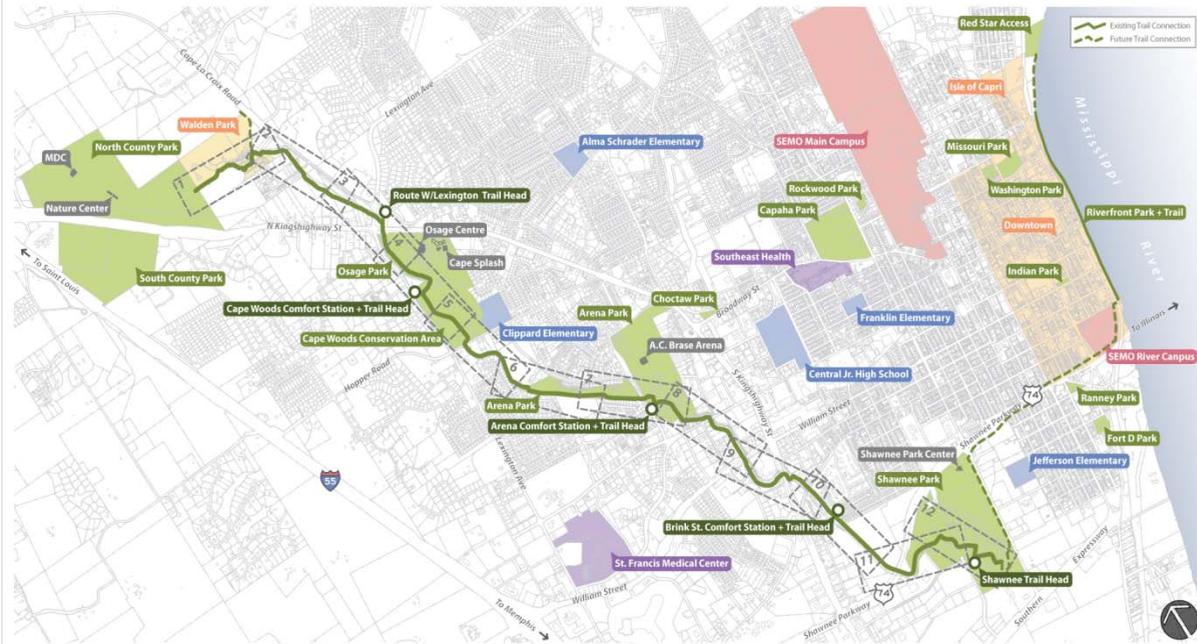
Trail Underpass Wayfinding Sign

- To be installed to bridge structure with name of the overhead road. This sign serves as orientation and wayfinding for Trail users.



CAPE La Croix TRAIL

TRAIL MASTER PLAN RECOMMENDATIONS



Cape Woods Conservation Area



Proposed Retaining at Independence Overpass



Proposed Retaining at William Street Overpass



Arena Park



TRAIL AMENITIES

Many of the amenities which currently exist along the Trail are in need of replacement. However this plan also recommends the addition of new Trail Amenities including the following:

- Child Play Node/Rest Stop
- Fitness Loop with Outdoor Fitness Equipment
- Comfort Station
- Cool Down Spray Mister
- Shade Structures

Various proposed Trail Amenities are shown below:



Paris Manufacturing Premier Bench



Paris Manufacturing Trash Receptacle



Paris Manufacturing M-Style Bike Rack



Landscape Forms Annapolis Bollard



Landscape Forms Annapolis Bollard



Whately Light Standard and Pole



Call Twenty-Four Wireless Call Box



Intelligent Products Mutt Mitt Dispenser



Ameristar Fence Echelon II Fence



Trail Landscape Plant Material



Landscape Structures Fitness Equipment



Park A Bike 151111 Electric Bike Pump



Most Dependable Fountains MDF-440



Most Dependable Fountains Spray/Mister

MASTER PLAN RECOMMENDATIONS

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Cape Woods Conservation Area



Proposed Rendering at Independence Overpass



Proposed Rendering at Williams Street Overpass



Arena Park

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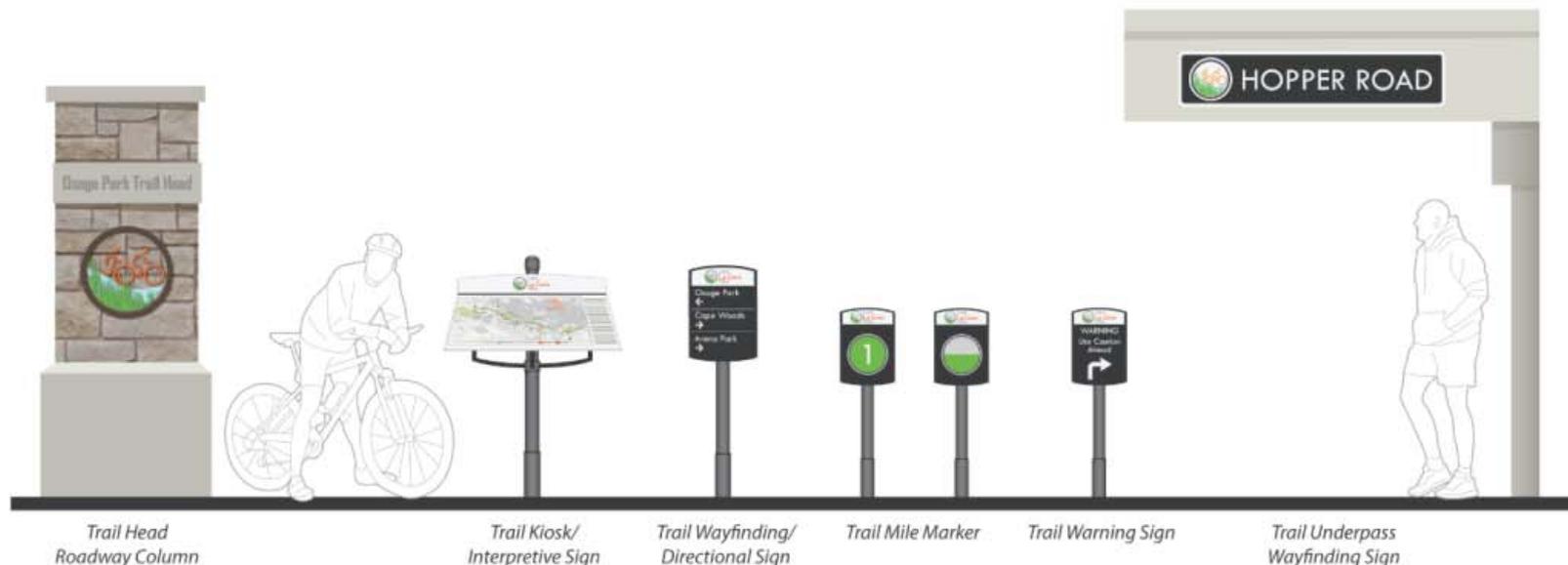
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Trail Head Roadway Column

Trail Kiosk/ Interpretive Sign

Trail Wayfinding/ Directional Sign

Trail Mile Marker

Trail Warning Sign

Trail Underpass Wayfinding Sign

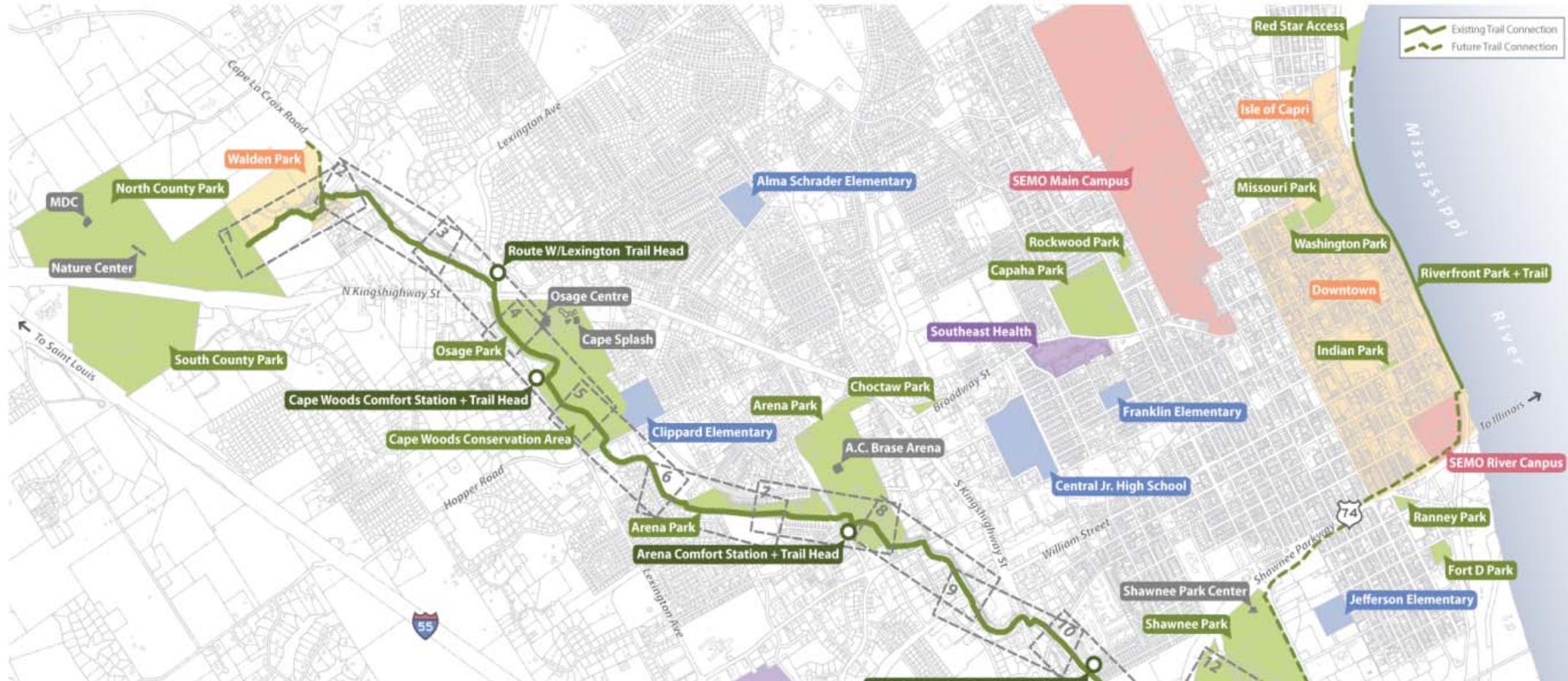


CAPE La Croix TRAIL

TRAIL MASTER PLAN RECOMMENDATIONS



CITY of CAPE
GIRARDEAU
PARKS & RECREATION DEPARTMENT



TRAIL AMENITIES

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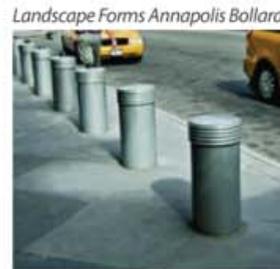
Paris Manufacturing Premier Bench



Paris Manufacturing Trash Receptacle



Paris Manufacturing M-Style Bike Rack



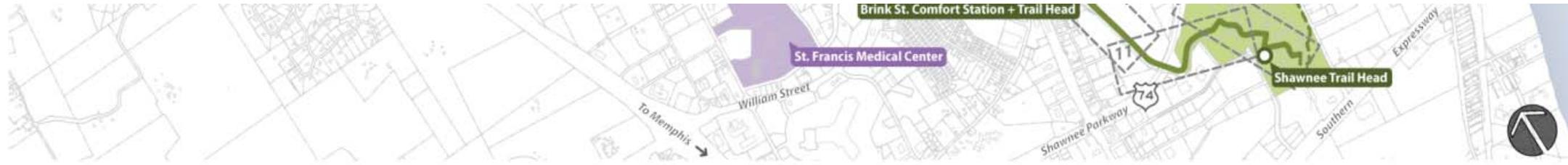
Landscape Forms Annapolis Bollard



Landscape Forms Annapolis Bollard

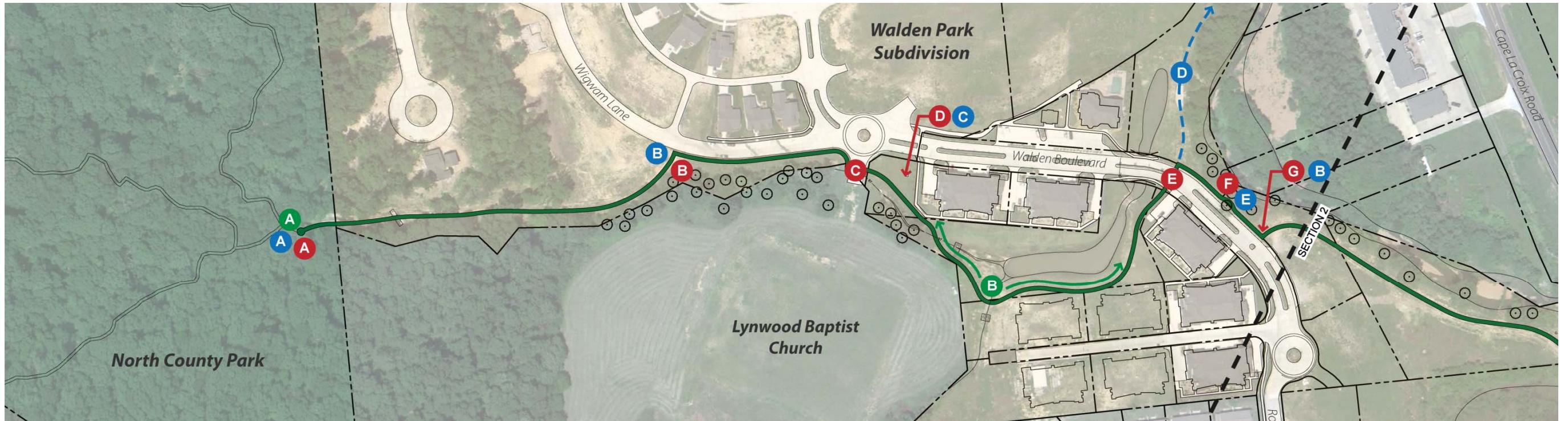


Whatley Light Standard and Pole



Cape La Croix Trail





● ATTRIBUTES

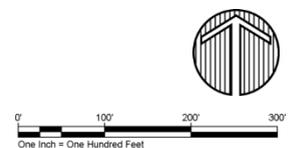
- A. Bike rack, park bench, and North County Park wayfinding signage.
- B. Newest section completed to enhance connectivity through new development to North County Park and Nature Center.

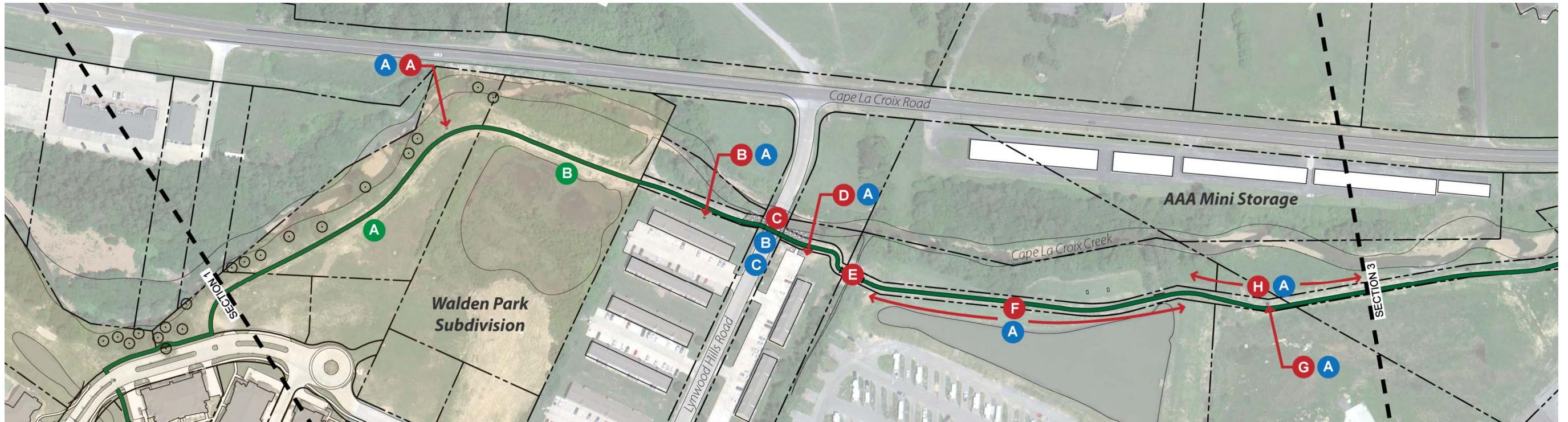
● DEFICIENCIES

- A. Lack of Cape La Croix Trail wayfinding signage and trash receptacle (when heading east). Termination of paved trail surface - bikers must dismount bike and walk or turn-around - North County Park trail is steep and unpaved.
- B. 90 degree, sharp curve does not meet minimum standard design radius of 60'.
- C. Lack of trail/roadway crossing signage, and 90 degree, sharp curve which does not meet minimum standard design radius of 60'.
- D. Exposed electrical transformer is unattractive.
- E. Lack of trail/roadway crossing signage and lighting.
- F. Rip-rap along trail shoulder is unattractive.
- G. 90 degree, sharp turn does not meet minimum standard design radius of 60'.

● OPPORTUNITIES

- A. Supplement existing Trail Head with trail wayfinding signage/kiosk, trash receptacle and mutt mitt dispenser.
- B. Long Term Recommendation - consider trail re-alignment project to correct sub-standard horizontal curve alignment.
- C. Consider partnering with private owner to provide landscape screening of electrical transformer.
- D. Future trail connection to Route W.
- E. Add landscape plantings to screen rip-rap along trail shoulder and to improve quality of trail experience.





● ATTRIBUTES

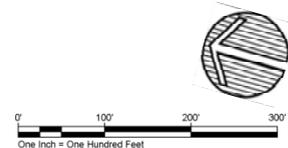
- A. Prairie/native grass - potential opportunity for interpretive educational/informational signage.
- B. Wetland - potential opportunity for interpretive educational/informational signage.

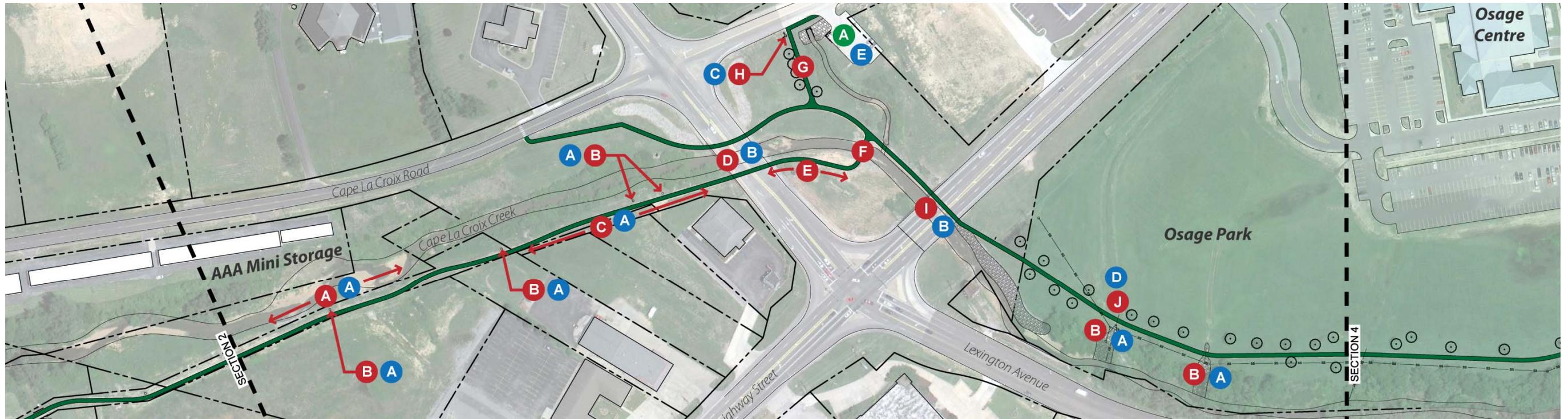
● DEFICIENCIES

- A. Sanitary Sewer lift station structure is unattractive.
- B. Exposed electrical transformer is unattractive.
- C. Rip-rap along trail shoulder at underpass and trail narrows at bridge structure; exposed bridge under-structure is unattractive
- D. Exposed trash dumpster is unattractive.
- E. Sharp reverse curves do not meet minimum design standard radius of 60'; narrow 8' wide bridge structure - does not meet minimum standard design width of 12'.
- F. RV Park and Highway Commercial land uses are unattractive.
- G. Sanitary Sewer manhole structure is unattractive.
- H. AAA Mini Storage building structure is unattractive.

● OPPORTUNITIES

- A. Add landscape plant buffer to improve quality of trail experience.
- B. Use blank concrete wall for public art opportunity. Add signage to Lynwood Hills Road bridge structure to improve orientation. Add lighting for improved perceived safety and trail experience. Provide plantings to create edge buffer at rip-rap under bridge.
- C. Add signage warning of approaching narrow bridge.





ATTRIBUTES

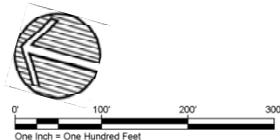
- A. Lexington/North Kingshighway Trail head parking lot (19 standard stalls, 0 handicap stalls), bike rack, and trash receptacle.

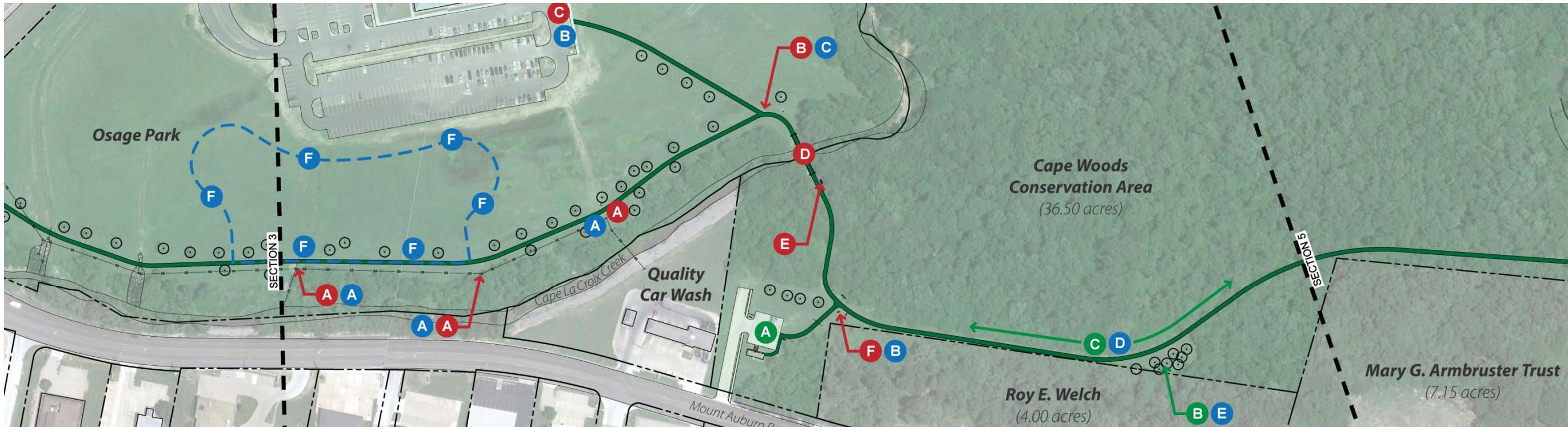
DEFICIENCIES

- A. AAA Mini Storage is unattractive.
- B. Sanitary Sewer manhole structure is unattractive.
- C. Office Park service area is unattractive.
- D. Rip-rap along trail shoulder at underpass is unattractive; exposed bridge under-structure is unattractive.
- E. Sight line issues - creates blind corner.
- F. Narrow bridge/culvert structure with no handrail.
- G. 5%+ trail slope - exceeds maximum design standard slope of 5.0%.
- H. Outdated trail wayfinding signage.
- I. Bridge deck lacks safety handrail, visual appeal and 8' structure width does not meet minimum design standard width of 12'.
- J. Open drainage swale is unattractive.

OPPORTUNITIES

- A. Add landscape plant screen to improve quality of trail experience.
- B. Use blank concrete wall space for public art opportunity. Add signage for Lexington Avenue/Kingshighway Street bridge structure for improved orientation. Add lighting for improved perceived safety and trail experience.
- C. Update trail wayfinding signage.
- D. Add native landscape plantings to swale to improve ecological habitat and quality of trail experience.
- E. Consider additional amenities such as shade structure, drinking fountain, bicycle air pump, potential vending opportunity at Route W/Lexington Trail Head.





● ATTRIBUTES

- A. Cape Woods Trail head with parking lot (8 standard stalls, 2 handicap stalls), comfort station, drinking fountain, park bench, bike rack, and trash receptacle; comfort station access ramp at 6% slope exceeds maximum standard design of 5.0%.
- B. Open tree grove which creates an engaging environment.
- C. Pleasant experience through Missouri hardwood forest.

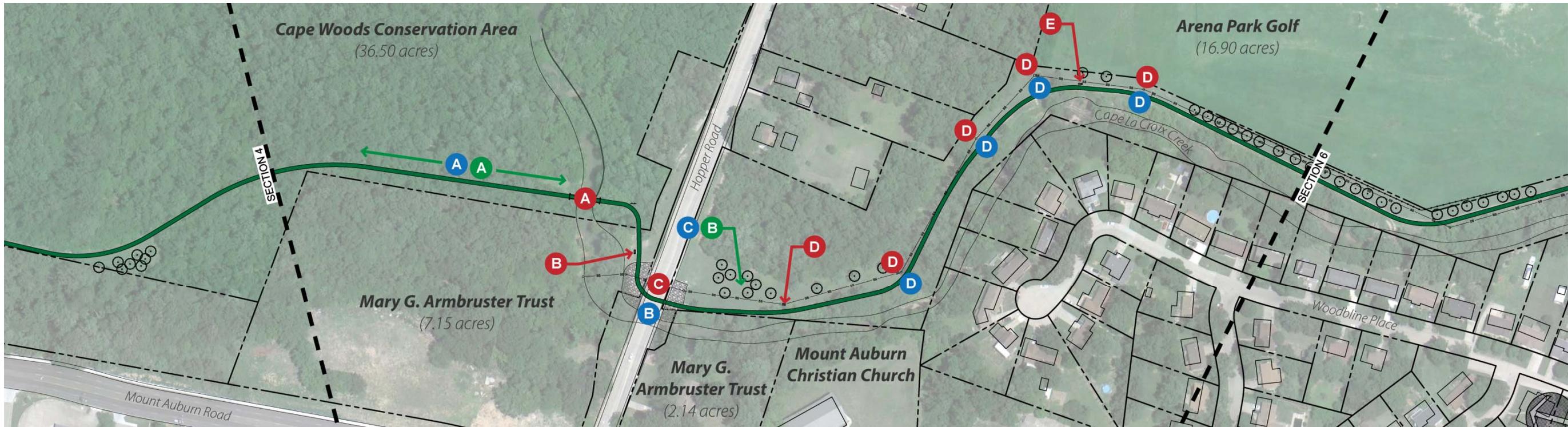
● DEFICIENCIES

- A. Sanitary Sewer manhole structure is unattractive.
- B. Lack of trail wayfinding signage and poor trail alignment at intersection.
- C. Lack of trail head amenities and no trail wayfinding signage.
- D. Narrow 8' wide bridge structure - does not meet minimum design standard width of 12'.
- E. Outdated and non-compliant ADA park bench.
- F. Outdated trail wayfinding signage.

● OPPORTUNITIES

- A. Add landscape plant screen to improve quality of trail experience.
- B. Add/Update trail wayfinding signage.
- C. Re-align trail to create a safer 90 degree intersection to improve trail safety.
- D. Potential opportunity for interpretive educational/informational signage.
- E. Proposed child play node/rest stop.
- F. Proposed 1/4 mile fitness trail loop with outdoor fitness equipment.





● ATTRIBUTES

- A. Pleasant experience through Missouri hardwood forest.
- B. Open tree grove which creates an engaging environment.

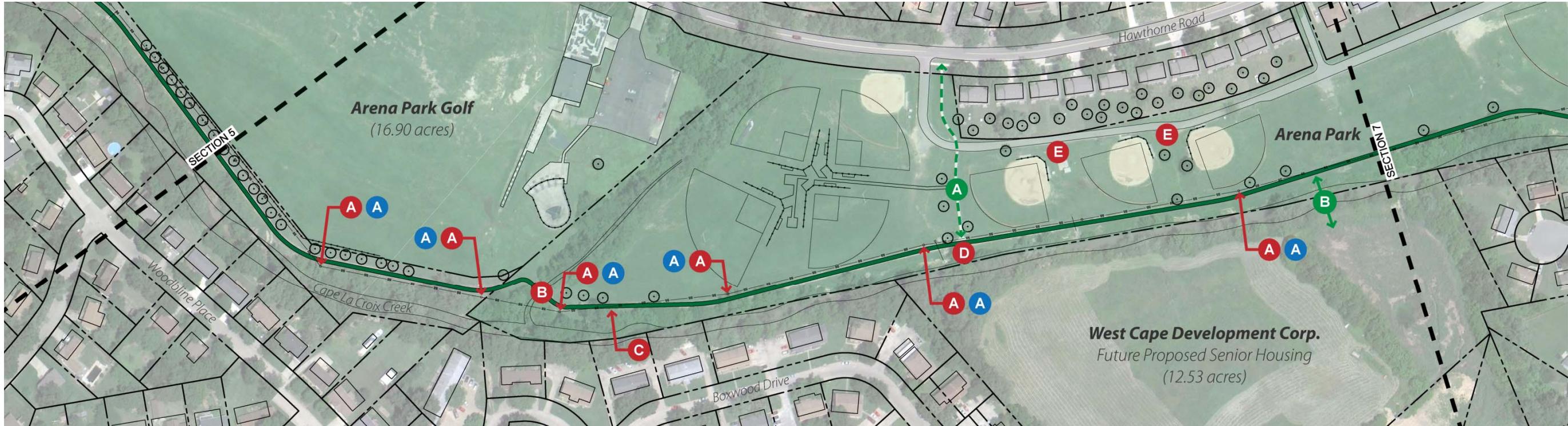
● DEFICIENCIES

- A. Narrow 8' wide bridge structure - does not meet minimum design standard width of 12'.
- B. Outdated and non-compliant ADA park bench.
- C. Rip-rap along trail shoulder at underpass - poor sight lines - does not meet minimum standard design radius of 60'; bridge lacks visual appeal.
- D. Sanitary Sewer manhole structure is unattractive.
- E. Outdated and non-compliant ADA park bench.

● OPPORTUNITIES

- A. Opportunity for interpretive educational/informational signage.
- B. Add signage for Hopper Road bridge structure for improved orientation. Add lighting for improved perceived lighting and trail experience. Use blank concrete wall for public art opportunity.
- C. Opportunity for children activity node and rest stop.
- D. Add landscape plant screen to improve quality of trail experience.

5



● ATTRIBUTES

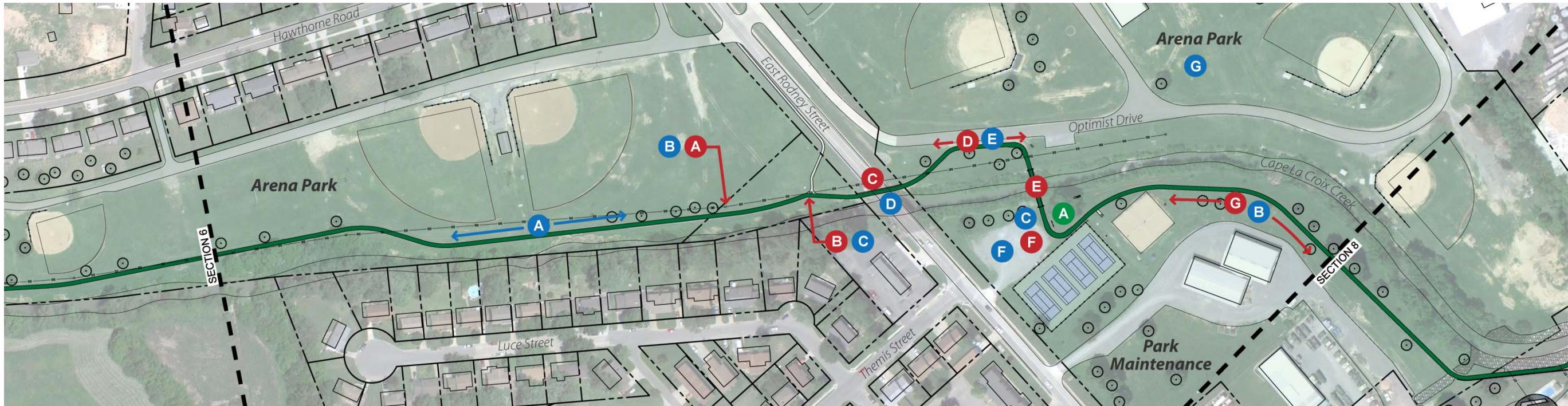
- A. Trail connection to local neighborhood - encourages travel by foot, reduction of vehicular travel and greater use of trail.
- B. Future bridge to connect proposed Senior Housing and Arena Park.

● DEFICIENCIES

- A. Sanitary Sewer manhole structure is unattractive.
- B. Narrow 8' wide bridge structure - does not meet minimum design standard width of 12'.
- C. Outdated and non-compliant ADA park bench.
- D. Lack of wayfinding trail signage.
- E. Drinking fountain - no connection to Trail.

● RECOMMENDATIONS

- A. Add landscape plant screen to improve quality of trail experience.
 - B. Add trail wayfinding signage to improve orientation.
- Miscellaneous - Consider landscape screening between trail and sport fields to create separation of uses.



ATTRIBUTES

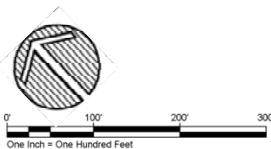
- A. Arena Park Trail head with gravel parking lot, drinking fountain, bike rack, non-ADA compliant park bench, trash receptacle and trail wayfinding signage.

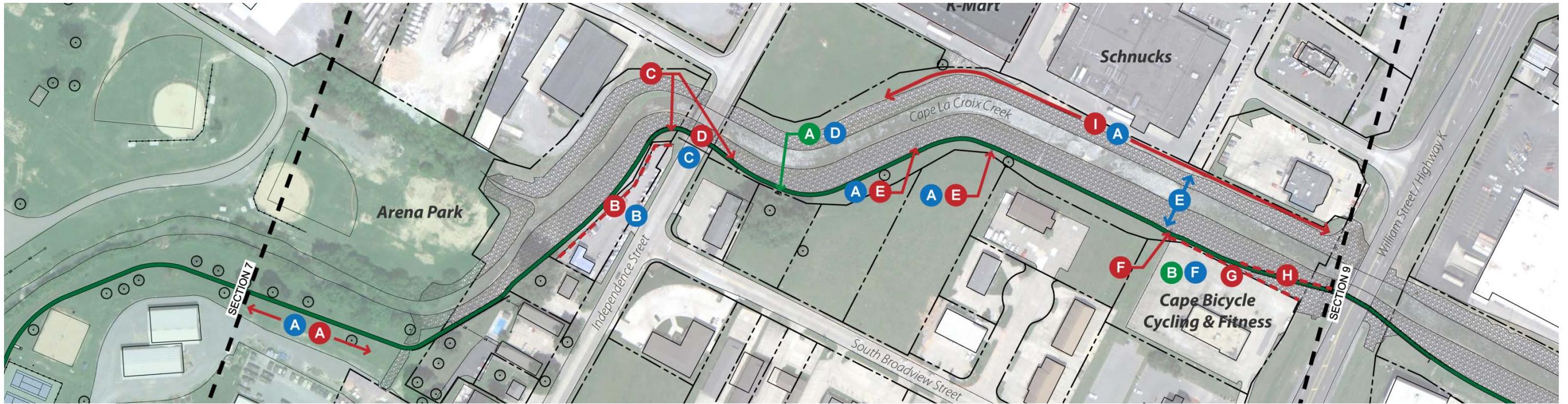
DEFICIENCIES

- A. Sanitary Sewer manhole structure is unattractive.
- B. Lack of wayfinding trail signage.
- C. Rip-rap along trail shoulder at underpass - no safety barrier; exposed bridge under-structure is unattractive.
- D. No separation between Optimist Drive and trail - creates unsafe condition for Trail users.
- E. Narrow 8' wide bridge structure - does not meet minimum design standard width of 12'.
- F. Outdated trail wayfinding signage.
- G. Park Maintenance Facility is unattractive.

RECOMMENDATIONS

- A. Consider landscape screening between trail and sport fields to create separation of uses.
- B. Add landscape plant screen to improve quality of trail experience.
- C. Add/update trail wayfinding signage to improve orientation.
- D. Use blank concrete wall for public art opportunity. Add signage to East Rodney Street bridge structure for improved orientation. Add lighting for improved perceived safety and trail experience.
- E. Add landscape plant buffer and/or bollards to improve trail safety.
- F. Consider installing curbs and permeable pavement for parking lot.
- G. Consider internal Arena Park trail network.





● ATTRIBUTES

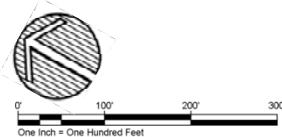
- A. Rest Stop with non-ADA compliant park bench and trash receptacle.
- B. Cape Bicycle store use very compatible with Trail.

● DEFICIENCIES

- A. National Guard is unattractive.
- B. Cape Autoplex fencing is unattractive.
- C. Retaining wall - blind, tight curve; metal guardrail - exposed end segment creates safety hazard.
- D. Exposed bridge under-structure is unattractive.
- E. Sanitary Sewer manhole structure is unattractive.
- F. Sanitary Sewer manhole structure - lid grade difference creates Trail alignment issue and safety hazard.
- G. 6" concrete curb - barrier for access to Bike Shop.
- H. Metal guardrail - exposed end segment creates safety hazard.
- I. Big box store service areas are unattractive.

● OPPORTUNITIES

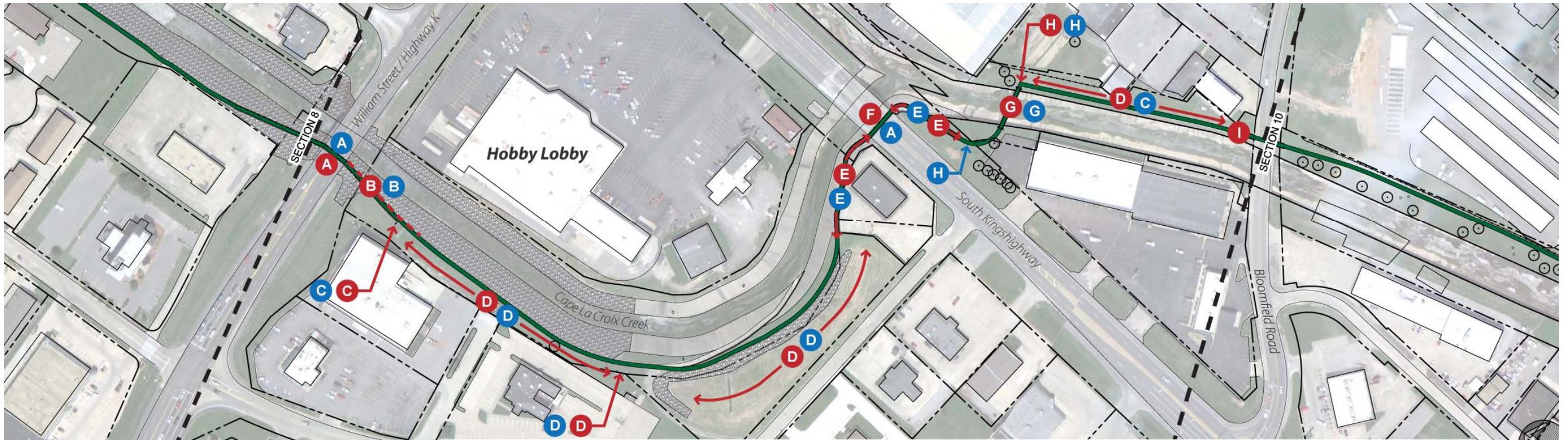
- A. Add landscape plant screen to improve quality of trail experience.
- B. Coordinate with owner of Cape Autoplex for alternative fencing and/or landscape screening.
- C. Use blank concrete wall for public art opportunity. Add signage on Independence Street bridge structure for improved orientation. Add lighting for improved perceived safety and trail experience.
- D. Provide ADA compliant bench at existing rest stop.
- E. Future bridge/connection to retail development.
- F. Opportunity for public/private partnership and/or future Trail Head with amenities, including vending opportunity. Partner with owner for removal of 6" concrete curb to provide access from trail.



independence st. bridge



8

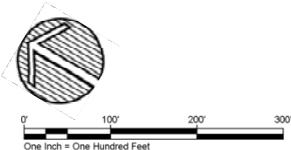


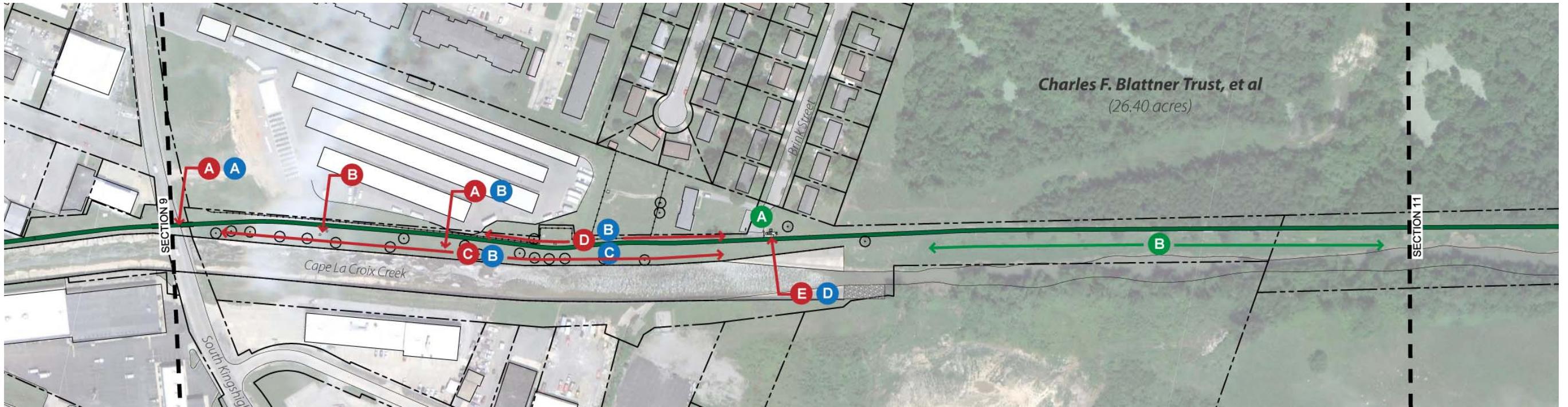
● DEFICIENCIES

- A. Exposed bridge under-structure is unattractive.
- B. Retaining wall - blind, tight curve; metal guardrail - exposed end segment creates safety hazard.
- C. Trail signage - outdated and non-functional.
- D. Adjacent development is unattractive.
- E. Retaining wall - blind, tight curve; metal guardrail - exposed end segment creates a safety hazard.
- F. Exposed bridge under-structure is unattractive.
- G. 8' wide bridge structure - does not meet minimum design standard width of 12'.
- H. 90 degree, sharp curve - does not meet minimum standard design radius of 60'.
- I. 6.5%+ trail slope - exceeds maximum design standard profile slope of 5.0%.

● OPPORTUNITIES

- A. Use blank concrete wall for public art opportunity. Add signage on William Street bridge structure for improved orientation. Add lighting for improved perceived safety and trail experience.
- B. Remove existing retaining wall and relocate to provide additional width and improve sight line. Replace railing with safer and bicycle-compliant style.
- C. Update trail warning signage and add permanent integrated trail surface warning system.
- D. Add landscape plant screen to improve quality of trail experience.
- E. Remove existing retaining wall and reconstruct south closer to parking area. Remove and replace metal guardrail with bicycle-compliant ornamental fencing.
- F. Provide aesthetic enhancements to bridge under-structure.
- G. Long-term replacement with 12' wide bridge structure.
- H. Provide approach warning signs for sharp curve ahead.





Charles F. Blattner Trust, et al
(26.40 acres)

● ATTRIBUTES

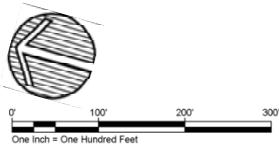
- A. Brink Street Trail Head parking lot (5 standard stalls and 0 handicap stalls), temporary restroom facility, drinking fountain, bike rack, park bench, trash receptacle, and trail wayfinding signage.
- B. Natural stream corridor.

● DEFICIENCIES

- A. 8' wide underpass structure - does not meet standard width of 12' and is unattractive.
- B. Sanitary Sewer manhole structures are unattractive.
- C. Industrial development is unattractive.
- D. Storage facility and stormwater detention facility is unattractive.
- E. Parking lot - no barrier between lot and trail; Trail Head - inefficient access and functionality; outdated trail wayfinding signage. ADA access at this location may be restricted due to the slope of the area. Temporary non-ADA compliant portable restroom.

● RECOMMENDATIONS

- A. Use blank concrete wall for painting or public art opportunity. Add signage on South Kingshighway bridge structure for improved orientation. Add lighting for improved perceived safety and trail experience.
- B. Add landscape plant screen to improve quality of trail experience.
- C. Add interpretive educational/informational trail signage.
- D. Add bollards as barrier between parking area and trail. Reconfigure trail head layout to improve functionality, access, and ADA accessibility. Update trail wayfinding signage. Incorporate a permanent, ADA-compliant comfort station in new layout.



10



● ATTRIBUTES

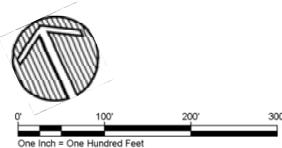
- A. Natural stream corridor.
- B. Native grass prairie.

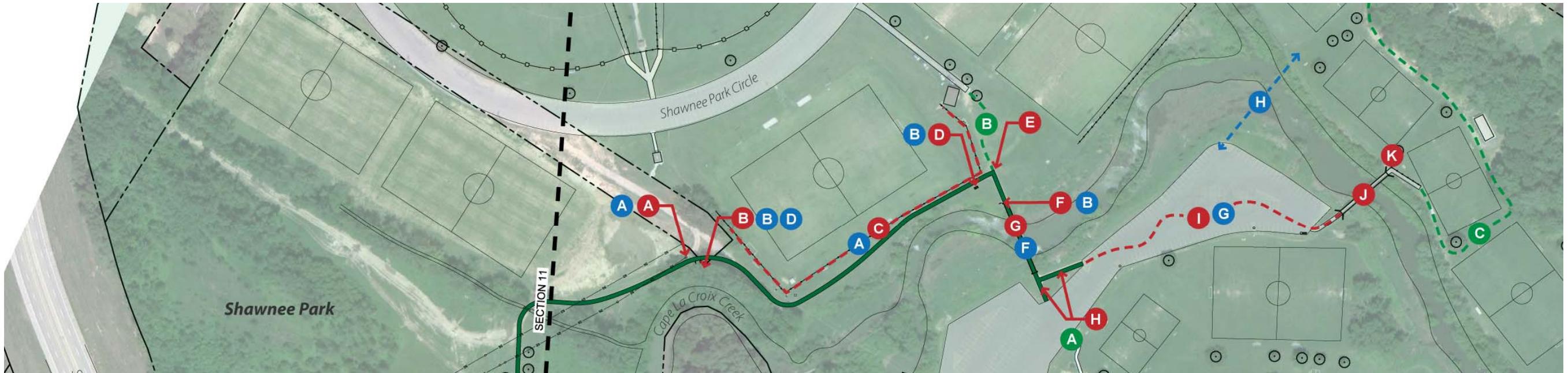
● DEFICIENCIES

- A. Bridge under-structure - storm drains drain directly to creek - creates runoff across trail; rock boulders are unattractive.
- B. Trail - low elevation of trail allows water to pool on trail.
- C. Sanitary Sewer manhole structures are unattractive.
- D. Rip-rap along trail shoulder - is unattractive; existing vegetation south of trail creates limited sight distance - does not meet minimum standard design lateral clearance for curves of 38.50'.

● OPPORTUNITIES

- A. Opportunity for interpretive educational/informational signage.
- B. Re-direct Shawnee Parkway storm drains to drain directly to creek and re-distribute rock boulders and incorporate native grass plantings.
- C. Raise trail elevation to allow water to drain across trail towards creek.
- D. Add landscape plant screen to improve quality of trail experience.
- E. Add landscape plant buffer along trail to improve quality of trail experience and trim back existing vegetation to improve sight distance.





● ATTRIBUTES

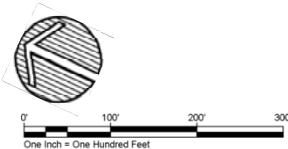
- A. Shawnee Park Trail head with concession stand, restrooms, drinking fountain, bike rack, park bench, trash receptacle, and children's playground.
- B. Future access from upper Shawnee Park ballfields to lower southern soccer fields.
- C. Future extension of Cape La Croix Trail to Downtown/Riverfront District.

● DEFICIENCIES

- A. Sanitary Sewer manhole structures are unattractive.
- B. Outdated and non-compliant ADA park bench; outdated trail wayfinding signage.
- C. Sport field fencing is unattractive.
- D. Non-compliant ADA park bench.
- E. 90 degree, sharp curve - does not meet minimum standard design radius of 60'.
- F. Missing bridge warning signage.
- G. Narrow 8' wide bridge structure - does not meet minimum standard design width of 12'.
- H. 6.5%+ trail slope- exceeds maximum standard design slope of 5.0%.
- I. Parking lot - creates un-safe pedestrian and bicycle travel to soccer fields and future Cape La Croix Trail extension.
- J. Narrow 8' wide bridge structure - does not meet minimum standard design width of 12'.
- K. 90 degree, sharp turn does not meet minimum design standard radius of 60'.

● OPPORTUNITIES

- A. Add landscape plant screen to improve quality of trail experience.
- B. Add trail wayfinding signage to improve orientation
- C. Add buffer planting to reduce visual impact of fence.
- D. New ADA compliant bench.
- E. Add trail wayfinding signage and stripe path or change surface material from trail to concession stand.
- F. Future long-term bridge replacement to provide 12' width.
- G. Re-configure parking lot layout with perimeter trail lane to encourage pedestrian traffic to perimeter and re-configure sub-standard parking lot layout.
- H. Future long-term bridge re-alignment - creates shorter length from parking lot to future Trail extension, also improves trail user safety with dedicated travelway.



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branding

Cape *La Croix* Trail



CAPE
La Croix
TRAIL



Cool Gray 11 C



Warm Red C



152 C



369 C



304 C

wayfinding



Roadway Trail Head



Trail Kiosk



Trail Wayfinding



Trail Mile Marker

furnishings palette



fence



bike rack



bench



mister



drinking fountain



recycling/trash

furnishings palette



mutt mit



pet bowl



lighting



bollard



security call boxes



priorities

- Considerations:
 - Cost/Benefit
 - Funding Source
 - Safety
 - Function
 - Aesthetics



next steps

- Final Plan Adjustments
- Cost Estimates
- Prioritization
- Final Plan Approval
- Implementation



cape la croix trail

master plan • city council meeting