

HECTOR HENRY GREENWAY > PHASE 1

CANNON CROSSING PHASE

This section of the Hector Henry Greenway extends along Rocky River from Poplar Tent to north of Harris Road with connections to Odell Elementary and Harris Road Middle Schools. The City intends this phase to connect to multi-use paths that will be included in TIP#U-6029 on Poplar Tent Road. As part of the U-6029 project, a new roadway bridge at Poplar Tent Road over Rocky River should include room, both horizontally and vertically, for a pedestrian underpass on both sides of the creek to allow for future trail network expansion.

Project Snapshot

- › Project Location: Between Poplar Tent and Harris Roads
- › Project Type: Greenway
- › Length of Project: 1.64 Miles
- › Estimated Construction Year: 2021
- › Trail Trip generators
 - Harris Road Middle School
 - Odell Elementary School
 - Carolina International School
 - Cannon Crossing Neighborhood
 - Cannon Crossing Shopping Center
 - Courtyards on Poplar Tent

Previous Planning Efforts

- › Livable Community Blueprint for Cabarrus County (2001-2010)
- › Carolina Thread Trail Master Plan – For Cabarrus County Communities (2009)

Potential Right of Way Needs

- › Total estimated area needed: 8.77 AC
- › Number of impacted parcels (not City or County owned): 9
- › Number of impacted property owners: 6

Potential Permitting Needs

- › Erosion Control
- › 401/404 permitting
- › NCDOT Encroachments
- › CLOMR/LOMR flood modeling permits

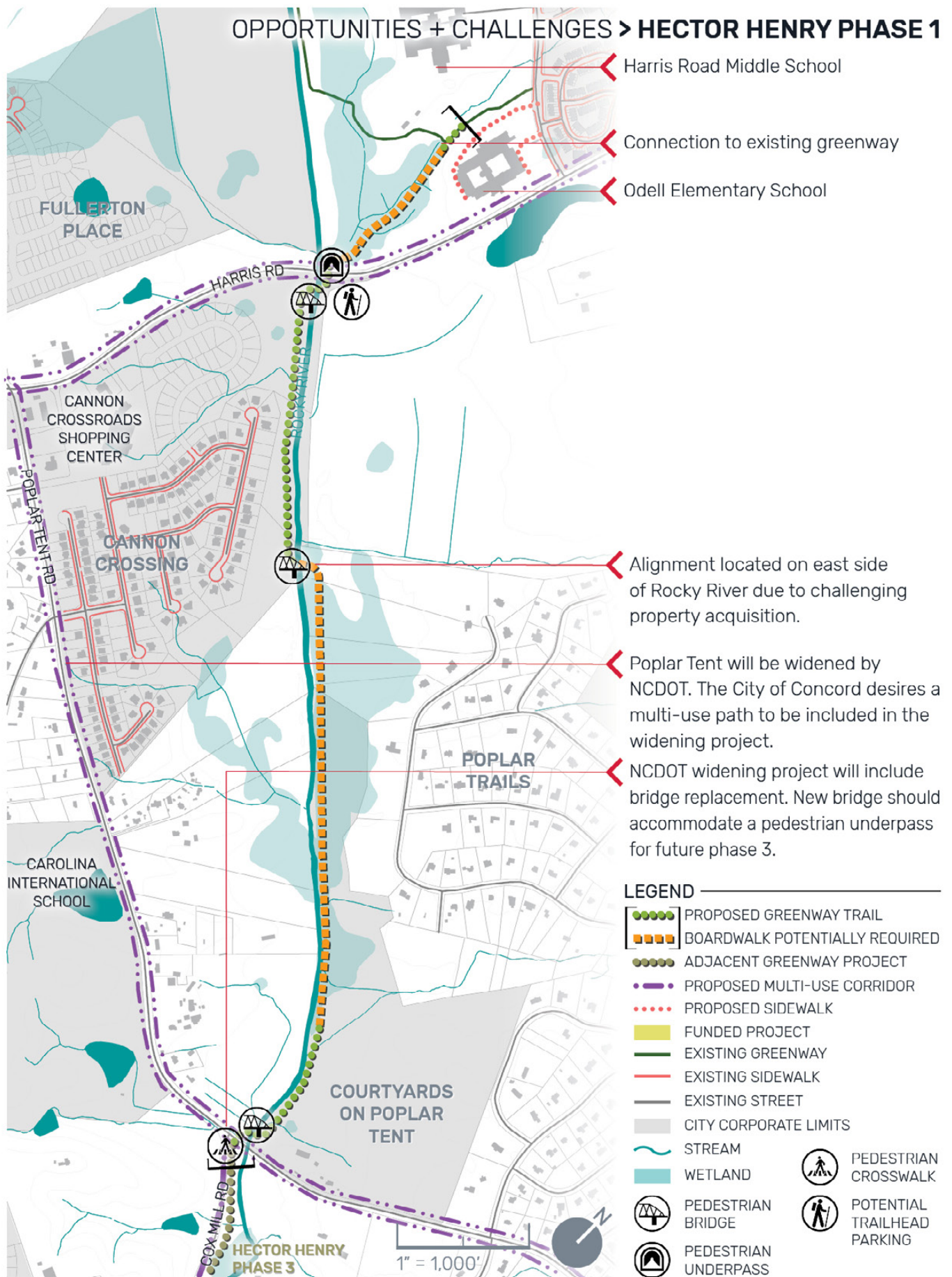
Estimated Project Cost

2019 Construction Cost Estimate (Basis for Calculations):	\$ 3,489,000.00
Escalated Construction Cost Estimate (FY2021):	\$ 3,868,000.00
10% Contingency:	\$ 387,000.00
Estimated Right of Way Costs:	\$ 60,000.00
Estimated Design Services ±3% *adjust per project	\$ 384,000.00
Estimated CEI Services ±2% *adjust per project	\$ 387,000.00
TOTAL ESTIMATED BUDGET RECOMMENDATION:	\$ 5,086,000.00

Potential Funding Sources

- › CRMPO/LAPP funding
- › NCDOT/STI funding
- › City of Concord CIP funding
- › Bonds

OPPORTUNITIES + CHALLENGES > HECTOR HENRY PHASE 1



HECTOR HENRY GREENWAY > PHASE 2

COX MILL HIGH SCHOOL TO DERITA ROAD

This section of the Hector Henry Greenway connects Cox Mill High School to Derita Road along the west side of Rocky River. This section will connect the funded Airport Phase of Hector Henry Greenway to the future Hector Henry Greenway Phase 3 section to the north, as well as provide a link to Clarke Creek Greenways to the west across Cox Mill Road and becomes part of the Cox Mill Loop. A pedestrian underpass should be attempted under Derita road to provide a grade separated crossing during the current Derita Road widening project. Care must be taken to avoid the high quality wetlands along the alignment.

Project Snapshot

- Project Location: Between Derita Road and Cox Mill High School
- Project Type: Greenway
- Length of Project: 1.35 Miles
- Estimated Construction Year: 2023
- Trail Trip generators
 - Cox Mill High School
 - Cox Mill Elementary School
 - West Winds Business Park
 - Christenbury Neighborhood

Previous Planning Efforts

- Livable Community Blueprint for Cabarrus County (2001-2010)
- Carolina Thread Trail Master Plan – For Cabarrus County Communities (2009)

Potential Right of Way Needs

- Total estimated area needed: 6.97 AC
- Number of impacted parcels (not City or County owned): 5
- Number of impacted property owners: 4

Potential Permitting Needs

- Erosion Control
- 401/404 permitting
- NCDOT Encroachments
- CLOMR/LOMR flood modeling permits

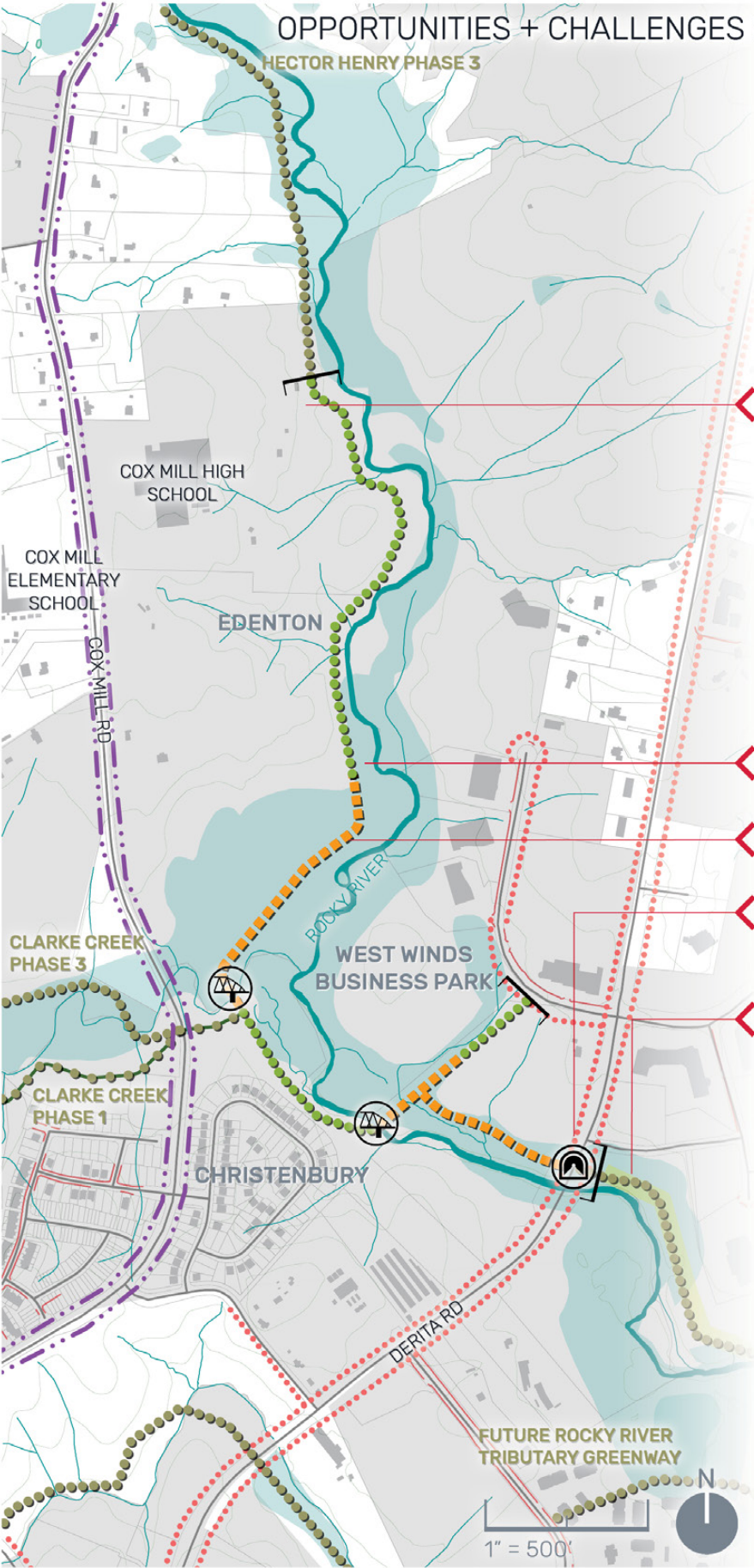
Estimated Project Cost

2019 Construction Cost Estimate (Basis for Calculations):	\$ 2,969,000.00
Escalated Construction Cost Estimate (FY2023):	\$ 3,527,000.00
10% Contingency:	\$ 353,000.00
Estimated Right of Way Costs:	\$ 40,000.00
Estimated Design Services ±3% *adjust per project	\$ 327,000.00
Estimated CEI Services ±2% *adjust per project	\$ 353,000.00
TOTAL ESTIMATED BUDGET RECOMMENDATION:	\$ 4,600,000.00

Potential Funding Sources

- CRMP0/LAPP funding
- NCDOT/STI funding
- City of Concord CIP funding
- Bonds

OPPORTUNITIES + CHALLENGES > HECTOR HENRY PHASE 2



Greenway will allow Cox Mill High School to connect with trail network.



- High-quality wetlands provide potential educational opportunity.
- Project will require FEMA floodplain modeling and permitting
- Derita Road widening currently in progress. Bench modification beneath bridge required.
- Funded Hector Henry Greenway - Airport Greenway Phase

LEGEND

	PROPOSED GREENWAY TRAIL		PEDESTRIAN CROSSWALK
	BOARDWALK POTENTIALLY REQUIRED		POTENTIAL TRAILHEAD PARKING
	ADJACENT GREENWAY PROJECT		
	PROPOSED MULTI-USE CORRIDOR		
	PROPOSED SIDEWALK		
	FUNDED PROJECT		
	EXISTING GREENWAY		
	EXISTING SIDEWALK		
	EXISTING STREET		
	CITY CORPORATE LIMITS		
	STREAM		PEDESTRIAN BRIDGE
	WETLAND		PEDESTRIAN UNDERPASS

RECOMMENDATIONS

HECTOR HENRY GREENWAY > PHASE 3

COX MILL HIGH SCHOOL TO POPLAR TENT ROAD

This section of the Hector Henry Greenway connects the previously planned Phase 2 section at Cox Mill High School and extends NW along the west side of Rocky River up to Poplar Tent Road. It is anticipated that the greenway trail will replace the sidewalk/multi-use path on the east side of Cox Mill Road where the greenway trail comes into proximity to Cox Mill Road. This replacement scenario extends up to Poplar Tent Road. The City intends to connect to multi-use paths along Poplar Tent Road as part of the road widening project TIP#U-6029. It is recommended to examine the opportunity to have a roadway bridge with a pedestrian underpass that would allow a grade separated crossing on both sides of Rocky River.

An alternative alignment is to look at bridging across Rocky River once the greenway is in proximity to Cox Mill Road and following the east side of the river to Poplar Tent. In the alternative scenario, the trail would end at Poplar Tent Road with an at grade crossing to connect to Hector Henry Phase 1.

Project Snapshot

- › Project Location: Between Cox Mill High School and Poplar Tent Road
- › Project Type: Greenway
- › Length of Project: 0.88 Miles
- › Estimated Construction Year: 2034
- › Trail Trip generators
 - Cox Mill High School

Previous Planning Efforts

- › Livable Community Blueprint for Cabarrus County (2001-2010)
- › Carolina Thread Trail Master Plan – For Cabarrus County Communities (2009)

Potential Right of Way Needs

- › Total estimated area needed: 4.80 AC
- › Number of impacted parcels (not City or County owned): 7
- › Number of impacted property owners: 7

Potential Permitting Needs

- › Erosion Control
- › 401/404 permitting
- › NCDOT Encroachments
- › CLOMR/LOMR flood modeling permits

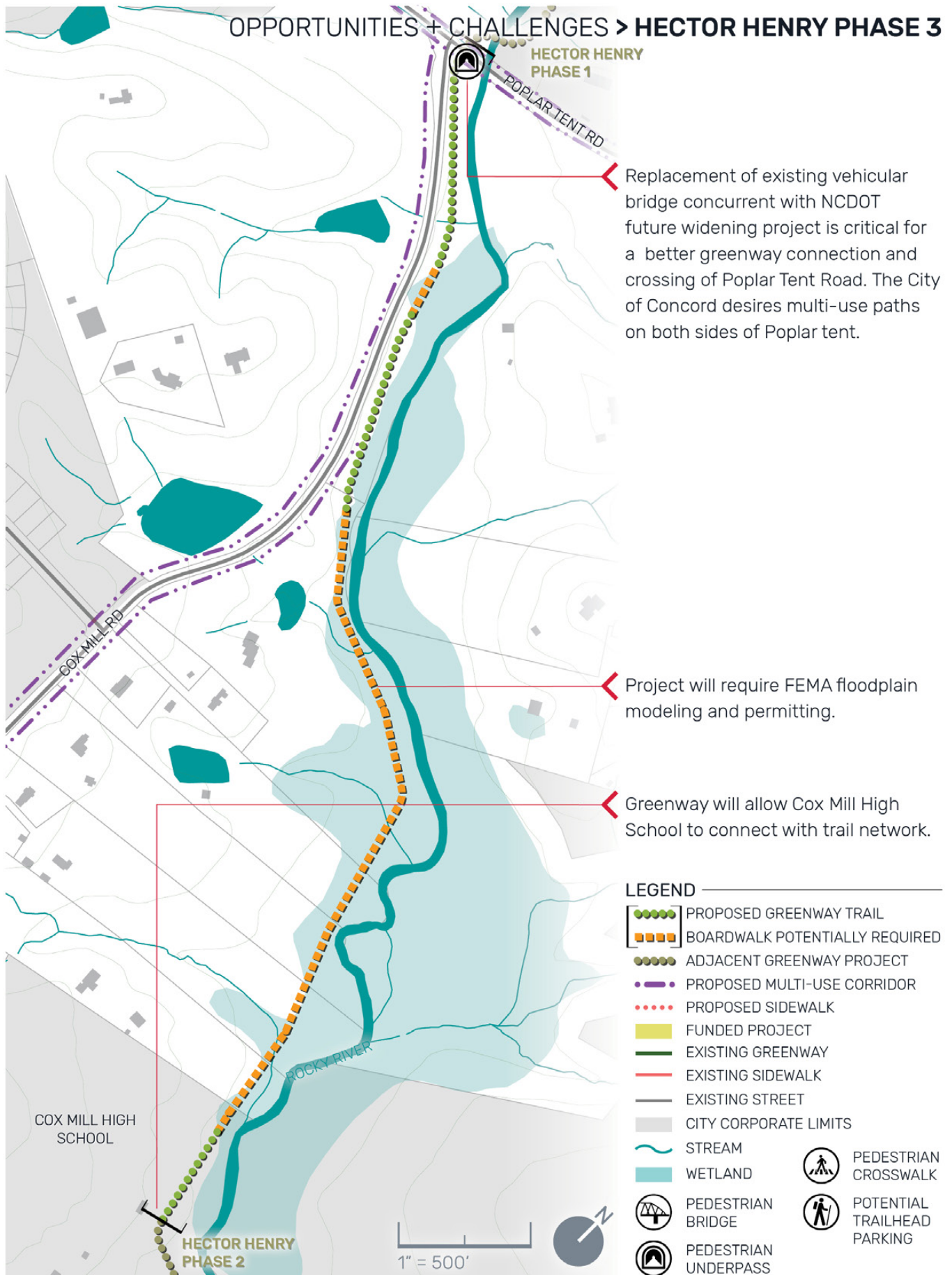
Estimated Project Cost

2019 Construction Cost Estimate (Basis for Calculations):	\$ 1,798,000.00
Escalated Construction Cost Estimate (FY2034):	\$ 3,117,000.00
10% Contingency:	\$ 312,000.00
Estimated Right of Way Costs:	\$ 60,000.00
Estimated Design Services ±3% *adjust per project	\$ 198,000.00
Estimated CEI Services ±2% *adjust per project	\$ 312,000.00
TOTAL ESTIMATED BUDGET RECOMMENDATION:	\$ 3,999,000.00

Potential Funding Sources

- › CRMPO/LAPP funding
- › City of Concord CIP funding
- › NCDOT/STI funding
- › Bonds

OPPORTUNITIES + CHALLENGES > HECTOR HENRY PHASE 3



HECTOR HENRY GREENWAY > GOLF COURSE / SPEEDWAY PHASE

This section of the Hector Henry Greenway connects to and extends the proposed Riverwalk Greenway south along the Rocky River just past Concord Parkway (US-29). This section will provide off-road access for bicyclists and pedestrians to the Speedway via US-29. A future section of trail will connect the Golf Course/Speedway Phase of Hector Henry to Pitts School Road Elementary and J.M Robinson High School. The City intends to connect to multi-use paths on Concord Parkway, connecting the greenway to the Speedway. An alternative to the alignment shown is to stay on the west side of Rocky River to Concord Parkway and work with the Speedway to avoid potential conflicts with the drag strip. This would accommodate even more users on race day and help alleviate roadway congestion.

Project Snapshot

- > Project Location: Between Rocky River Golf Club and US-29
- > Project Type: Greenway
- > Length of Project: 3.10 Miles
- > Estimated Construction Year: 2024
- > Trail Trip generators
 - Charlotte Motor Speedway
 - Riverwalk neighborhood
 - Rocky River Golf Club
 - Weddington Rd. Bark Park
 - Embassy Suites Hotel+Convention Center
 - J.M. Robinson High School
 - Pitts School Road Elementary
 - Carl Furr Elementary

Previous Planning Efforts

- > Carolina Thread Trail Master Plan – For Cabarrus County Communities (2009)
- > Rocky River Corridor Study (2008)

Potential Right of Way Needs

- > Total estimated area needed: 16.5 AC
- > Number of impacted parcels (Not owned by City or County): 11
- > Number of impacted property owners: 10

Potential Permitting Needs

- > Erosion Control
- > 401/404 permitting
- > NCDOT Encroachments
- > CLOMR/LOMR flood modeling permits

Estimated Project Cost

2019 Construction Cost Estimate (Basis for Calculations):	\$ 6,066,000.00
Escalated Construction Cost Estimate (FY2024):	\$ 7,457,000.00
10% Contingency:	\$ 746,000.00
Estimated Right of Way Costs:	\$ 330,000.00
Estimated Design Services ±3% *adjust per project	\$ 668,000.00
Estimated CEI Services ±2% *adjust per project	\$ 746,000.00
TOTAL ESTIMATED BUDGET RECOMMENDATION:	\$ 9,947,000.00

Potential Funding Sources

- > CRMPO/LAPP funding
- > NCDOT/STI funding – TAP, CMAQ
- > City of Concord CIP funding
- > Bonds
- > Build Grant
- > Carolina Thread Trail Grant

