



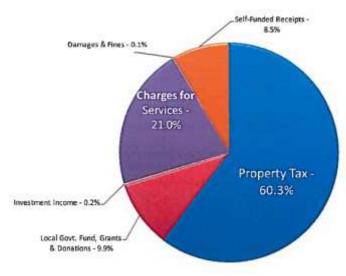


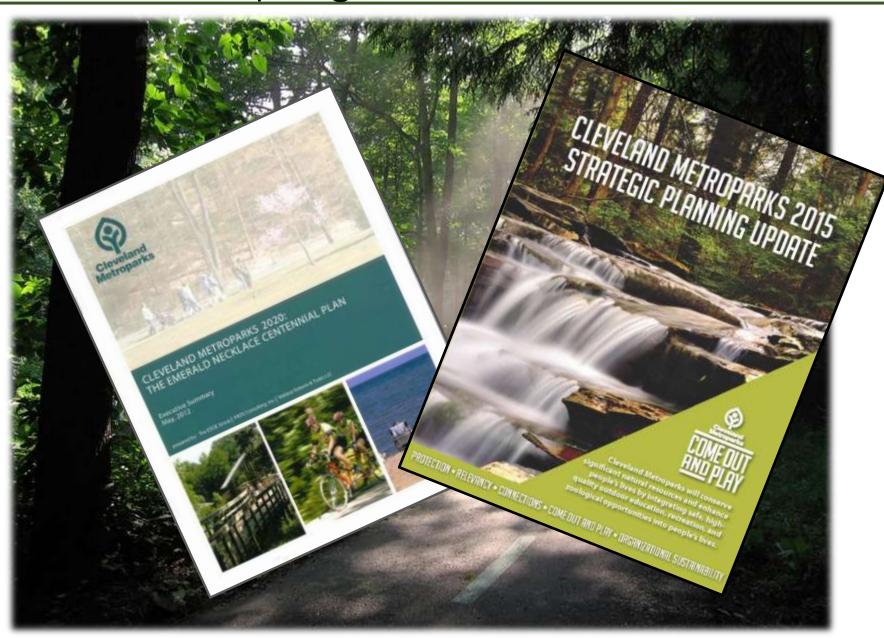


Cleveland Metroparks – Quick Facts • Created in 1917

- Subdivision of the State of Ohio ORC 1545
- Governed by Board of Park Commissioners
- 23,519 acres
- 18 Reservations & Cleveland Metroparks Zoo
 - 8 Reservations within City of Cleveland
 - Acreage in 48 diverse communities
 - Acreage owned in 6 counties
- 8 Golf Courses
- 18.5 million recreational visitors
 - +19,000 programs
- Supported by tax levy
- 300 miles of trails

















- Trail Development Challenges
 - Right of Way / Real Estate
 - Political Considerations
 - Physical Barriers
 - Roadways, railroads, watercourse, etc.
 - Utility Corridors
 - Natural Resource Protection
 - Budget and Funding
 - Project Delivery







- Trail Development Challenges
 - Right of Way / Real Estate
 - Political Considerations
 - Physical Barriers
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 - Utility Corridors
 - Natural Resource Protection
 - Budget and Funding
 - Project Delivery

Example Projects

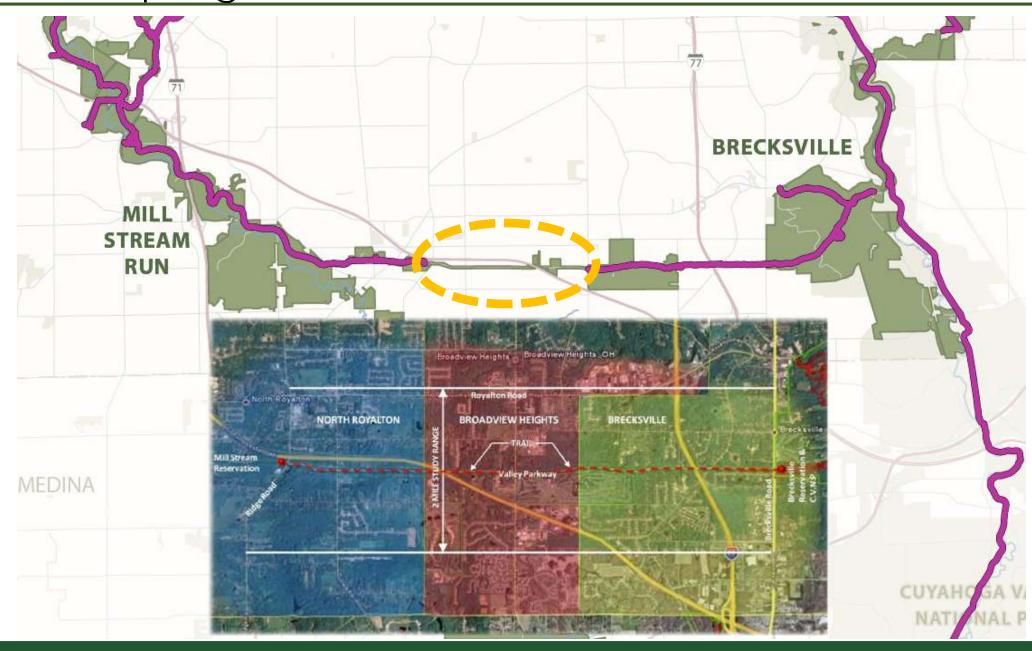
- Valley Parkway Connector Trail
- Mill Creek Connector Trail
- TIGER Trails
 - Connector Trails
 - Whiskey Island Connector
 - Redline Greenway
 - Wendy Park Bridge
- Water Taxi
- Fort Hill Steps

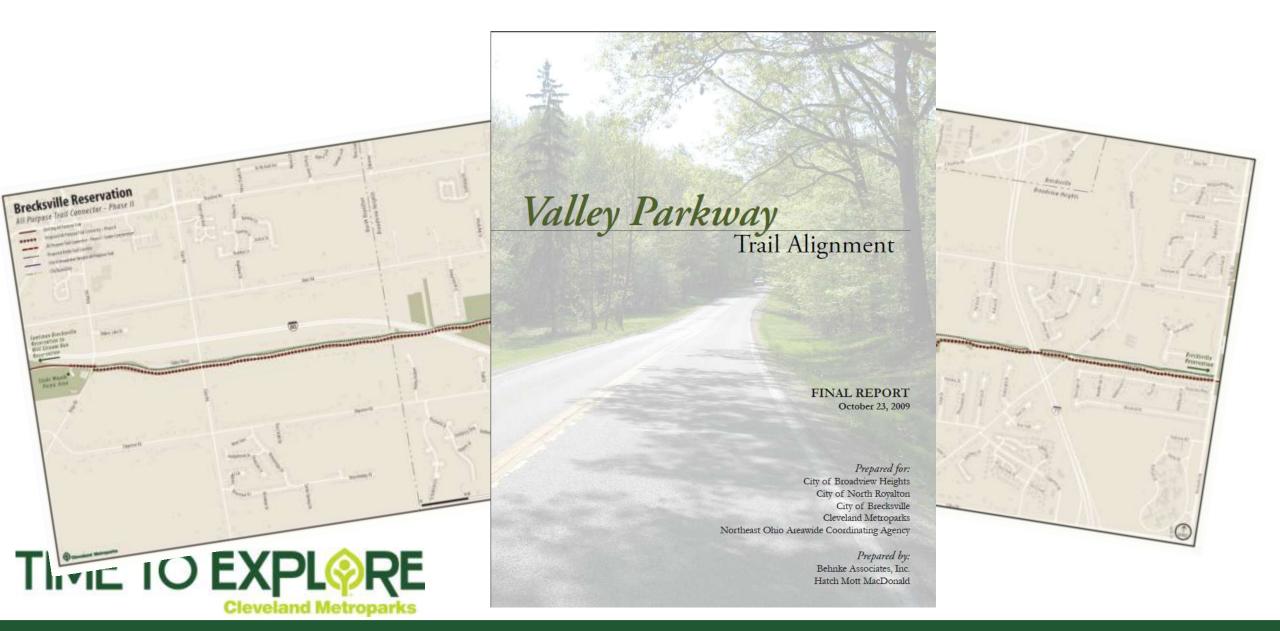
Planning Initiatives

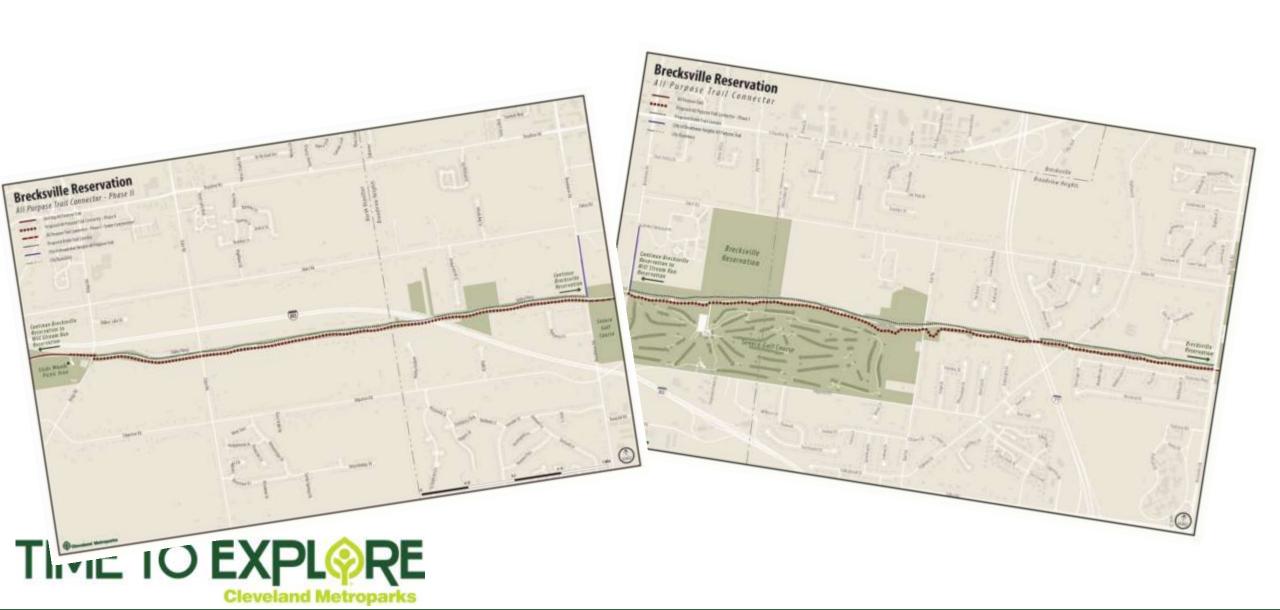
- Metroparks Reservation Plans
- Cuyahoga Greenways
- Vision for the Valley











Valley Parkway Connector Trail - Phases I and II

• 2009 TLCI Study

• All right-of-way owned in fee

• Three supportive municipalities

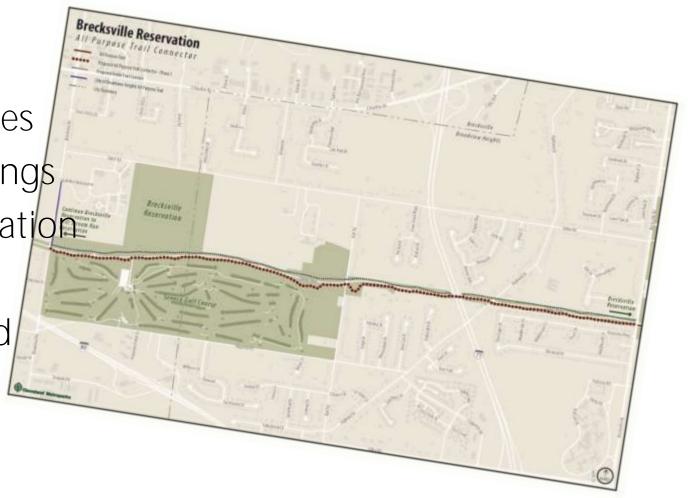
I-77 crossing and utility crossings

Wetland avoidance and mitigation

• 7 funding sources (\$4.8M)

Phase I – LPA Design-Bid-Build

• Phase II – Design-Build





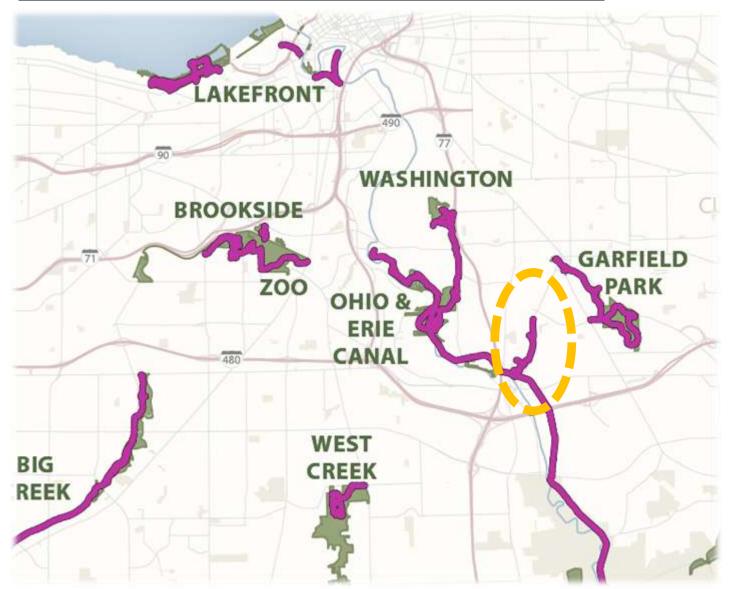




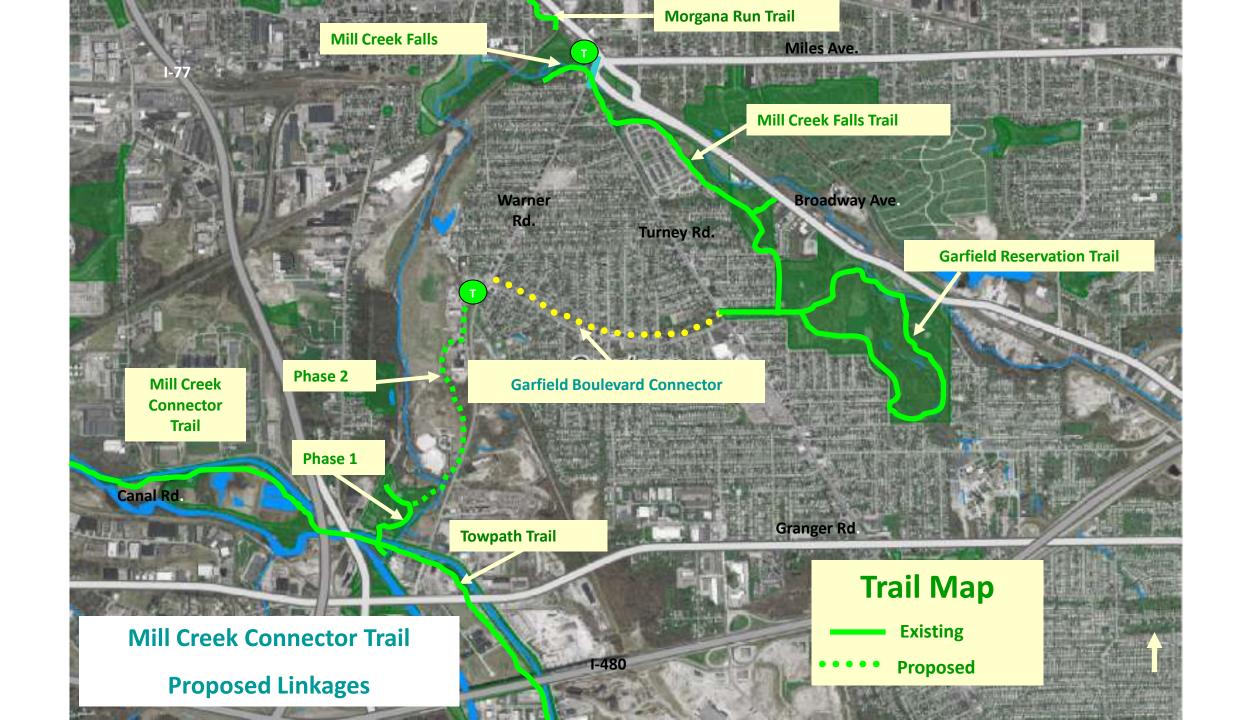




Mill Creek Connector Trail - Phase II







Mill Creek Connector Trail - Phase II

- 2005 Planning Study
- Two Phases
- 5 Easements
- Utility conflicts
- Environmental
 - Land Fills
 - Hazardous Waste
 - Former Chemical Plant
- LPA D-B-B
- 1.4 mi, 182' elevation
- \$3.9M (\$1.9 ODOT / NOACA)



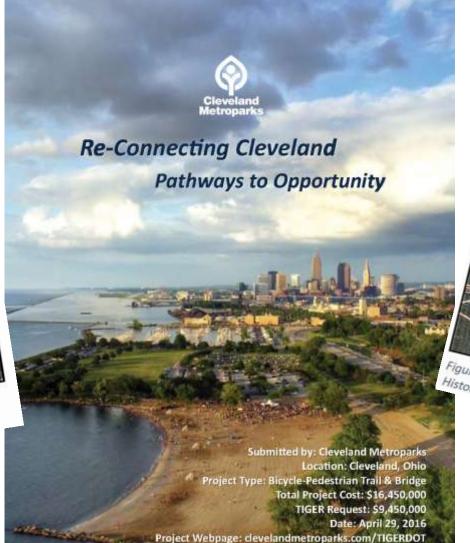


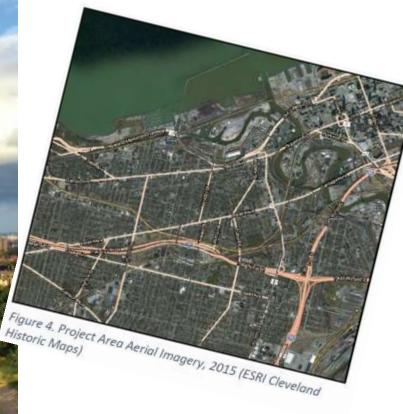




Transportation Investment Generating Economic Recovery (TIGER)

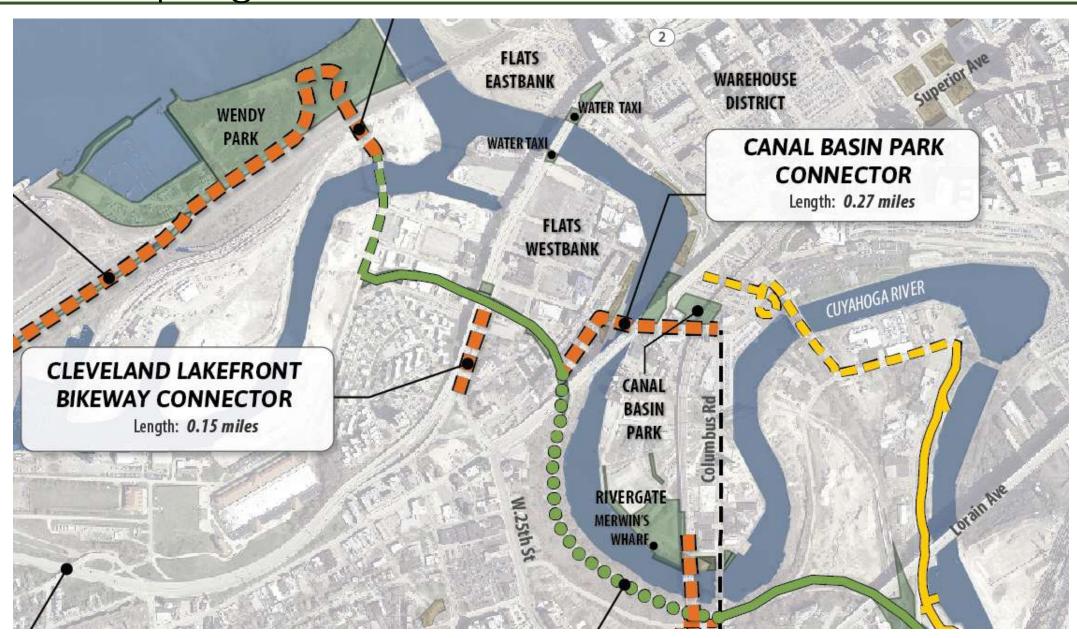












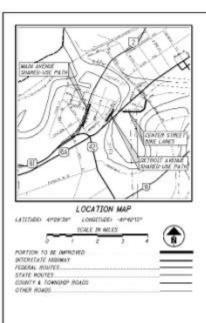
Cleveland Lakefront Bikeway Connector & Canal Basin Park Connector

<u>Design:</u> Michael Baker International
<u>Status:</u> Design nearing completion
<u>Anticipated Construction:</u> Spring 2018Summer 2018









STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

CANAL BASIN PARK CONNECTORS

CLEVELAND METROPARKS

INDEX OF SHEETS:

TITLE SHEET	,
SCHOWITE FLAN	5
PIFRONE SECTIONS	2-6
SENERAL MOTES	7-4
COTT OF SLEVELAND	(7 - 38)
IPECIFICATIONS & INFTAILS	
PLAK AND PROPILES	
MADE AVE. TRAD.	37 - 34
DETROOF ARE TRUE	38 - 42
CENTER ST.	41 - 42
CMD43 SECTIONS.	
MAZIN AVE. TRAD.	40-45
DETROIT AVE TRAIL	50 - 55
REVERNIED DRIVENNY	60 - SE
DIVINE & INTERSECTION DETAILS	57 - 68
NATER AGRE	43
MISCULLAMEDUS SIETAELS	76
STRUCTURE HOVER 20 FOOT SPAKE	
968/SE-40/E	71-77

PROJECT DESCRIPTION

2016 SPECIFICATIONS

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PROJECT EARTH DISTURBED AREA: 6-85 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 6-35 ACRES
MOTICE OF INTENT EARTH DISTURBED AREA: 6-30 ACRES

THE STANDARD SPECIFICATIONS OF THE STATE OF OND, DEPARTMENT OF DIAMPORTATION, INCLUDING CHARGES AND SHIPLE EMPLY SPECIFICATIONS LISTED IN THE PROPRISE SHALL EXHIBIT THIS SUPPORTSHIP.

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ASTRICTION PROJECT

2016/16/73

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CONNECTORS

FRONT

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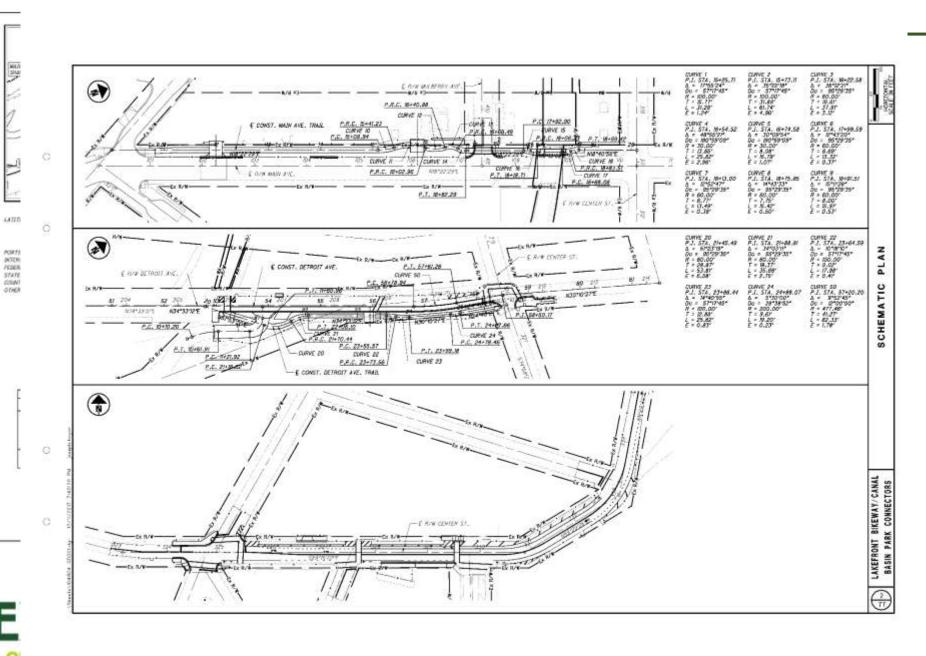
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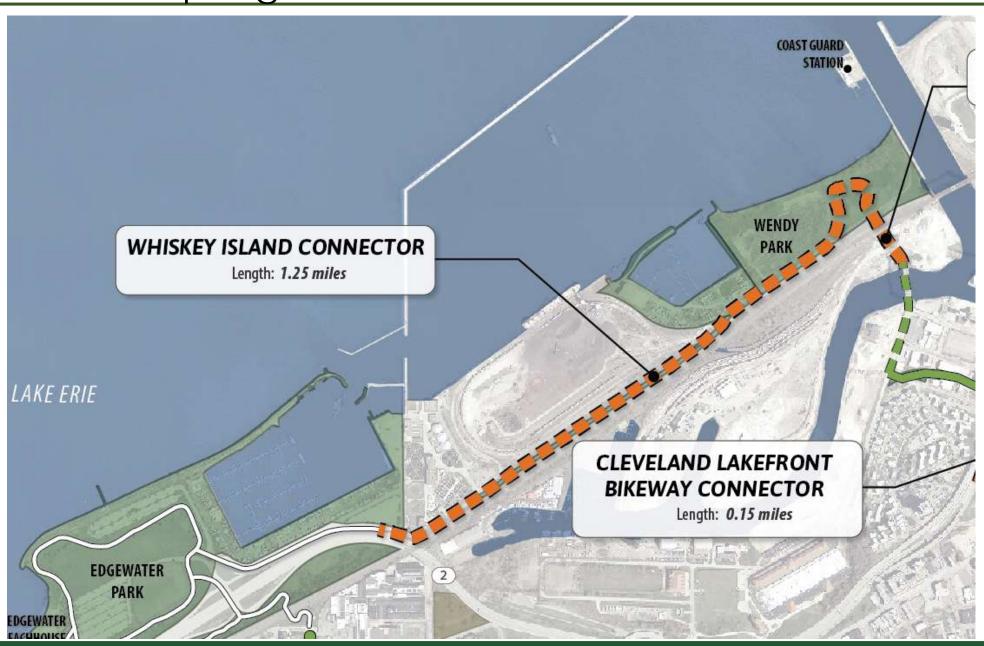
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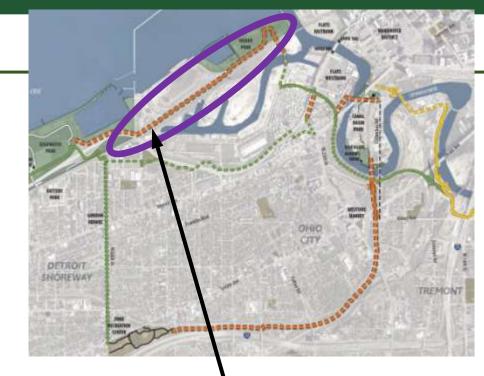


Design: E.L. Robinson Engineering

Status: Nearing 30% design

Anticipated Construction: Summer 2018-

Summer 2019







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Summer 2019



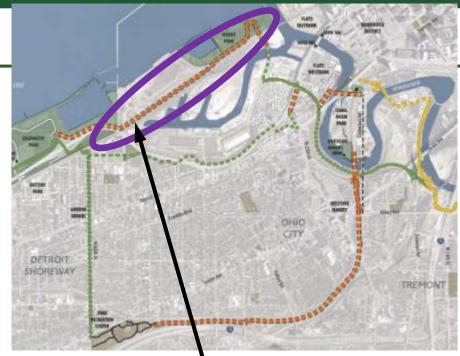


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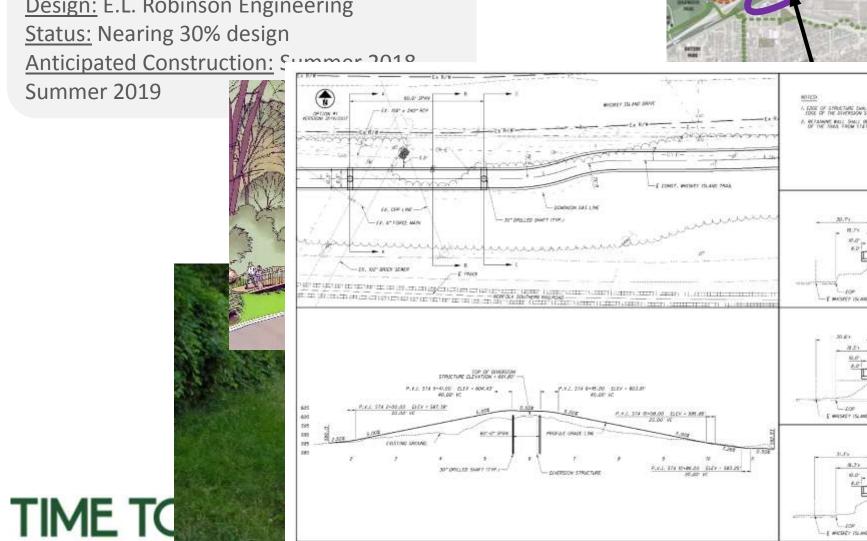
Summer 2019



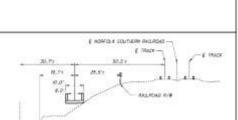
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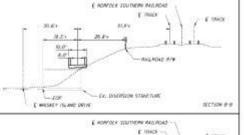
Whiskey Island Connector

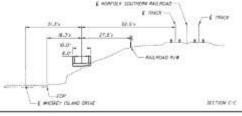
Design: E.L. Robinson Engineering











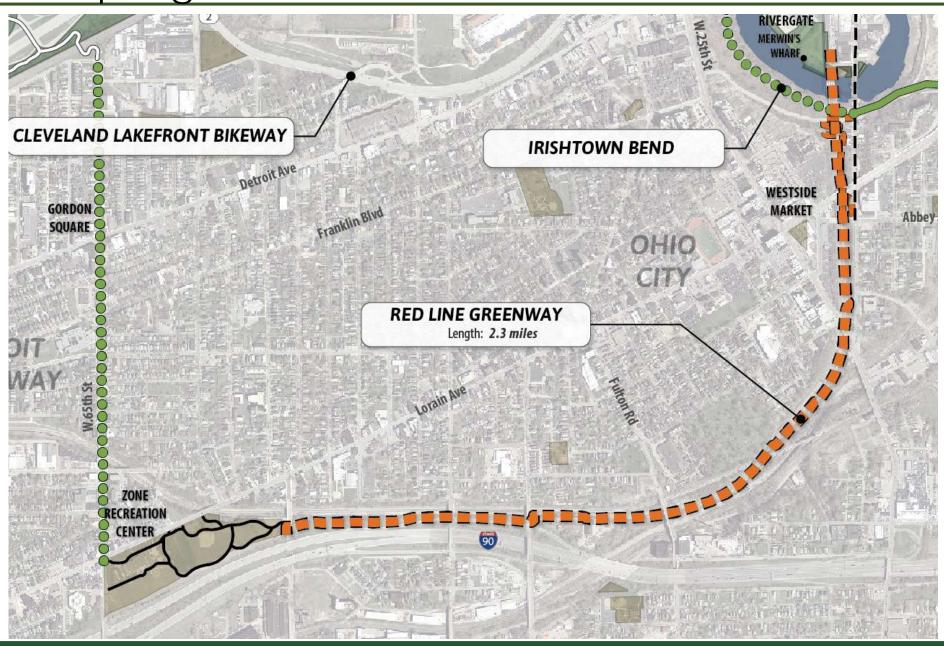


WEST TRAIL SECTION









Red Line Greenway

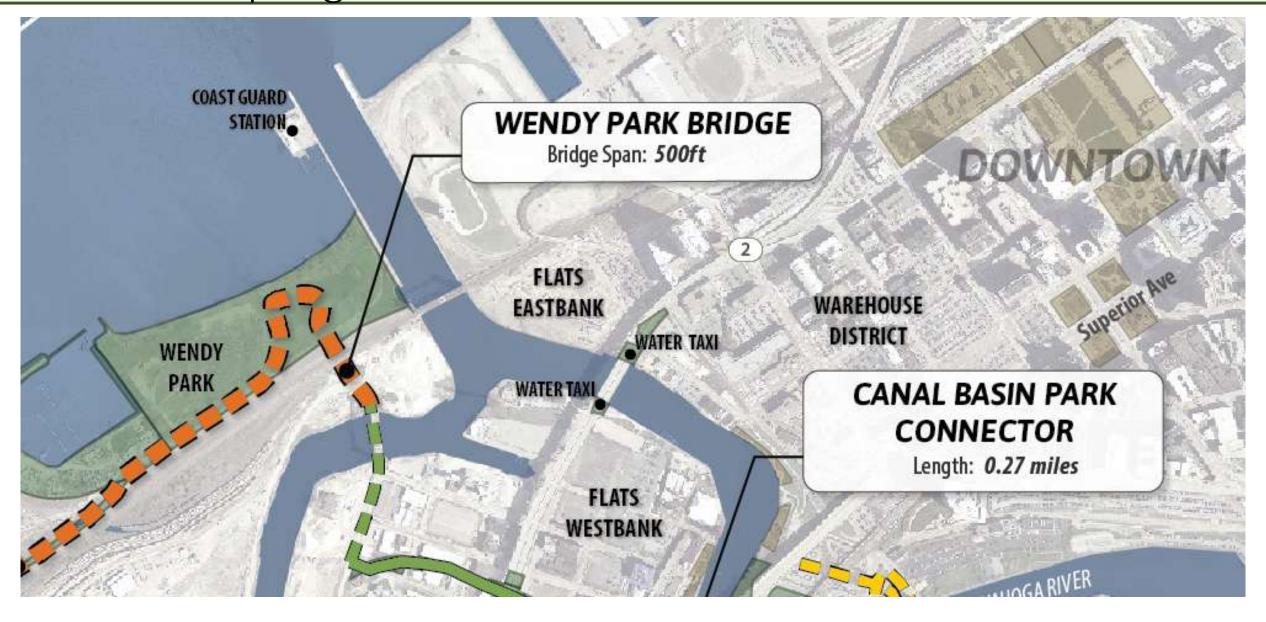
Design: Michael Baker International

Status: Nearing 30% design

Winter 2020





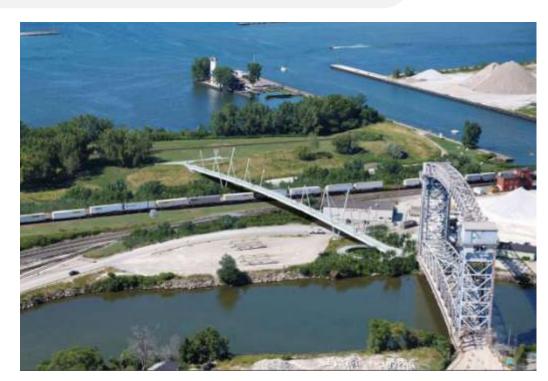


Wendy Park Bridge

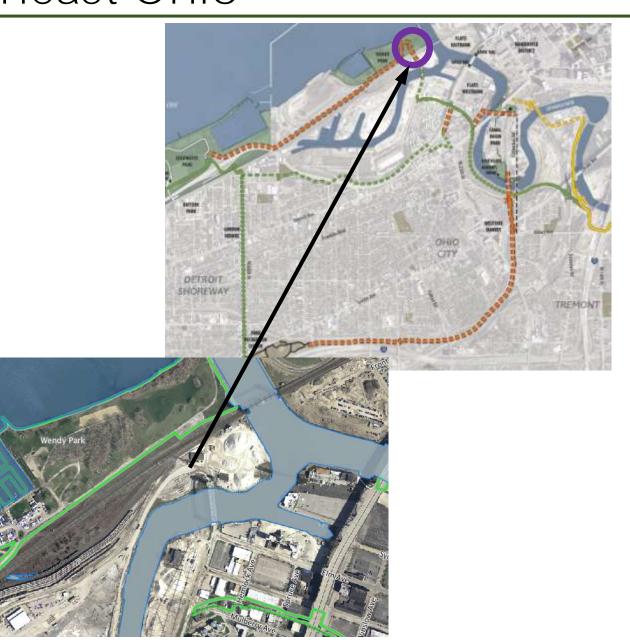
Design: KS Associates

Status: 50% design

Anticipated Construction: Spring 2019 - Fall 2020







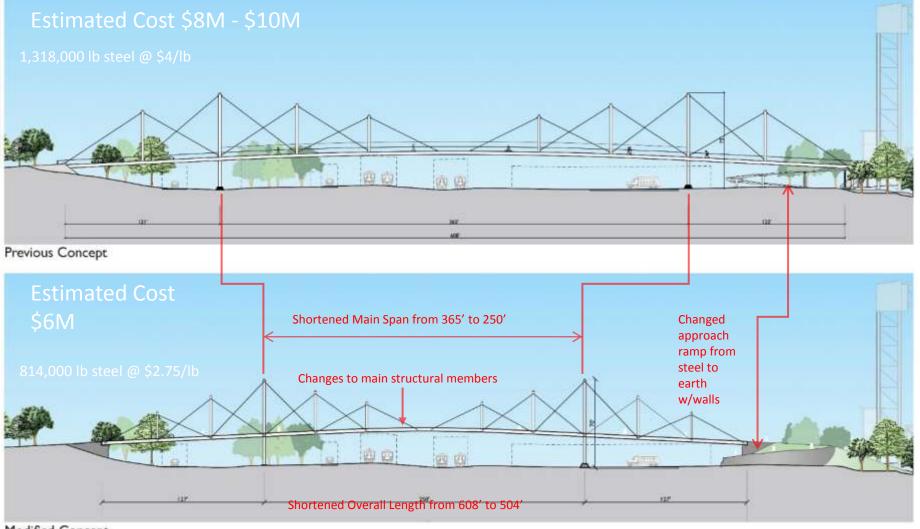
Wendy Park Bridge

Design: KS Associates

Status: 50% design

Anticipated Construction:

Spring 2019 - Fall 2020



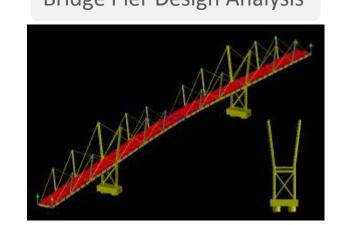


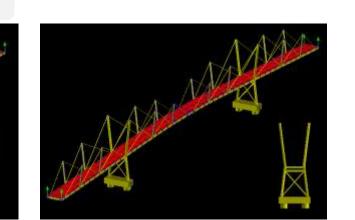






Bridge Pier Design Analysis







Railroad Coordination

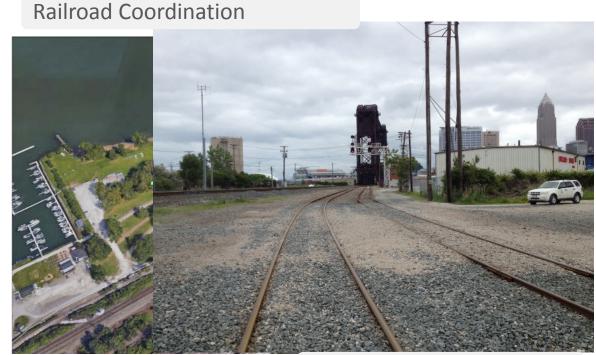




Railroad Coordination



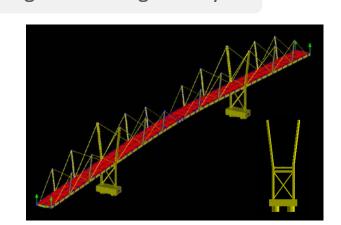


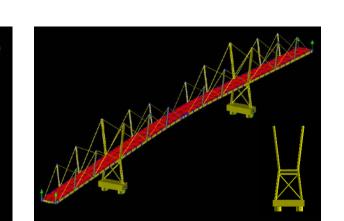




Bridge Pier Design Analysis



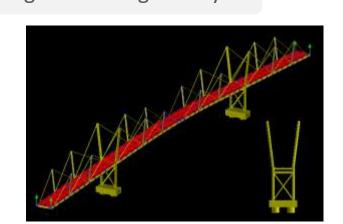


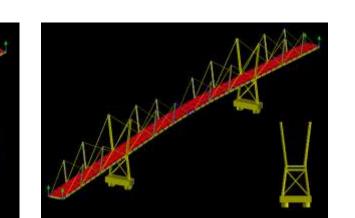






Bridge Pier Design Analysis







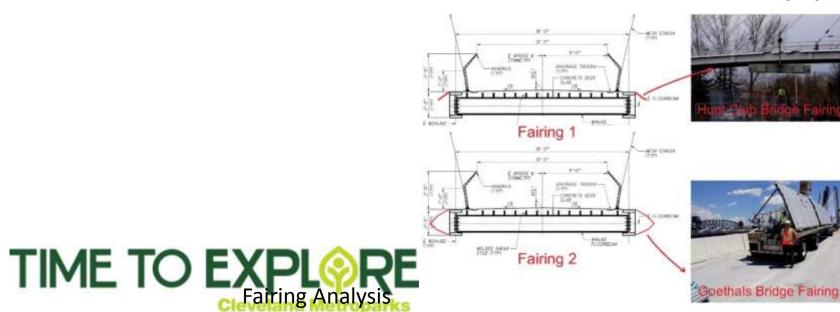
Wind Loading and Vibration

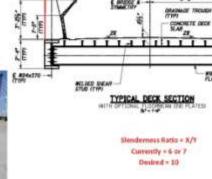






RWDI Wind Tunnel







MESH SCHOOL (HDD HLT.)

Wind Loading and Vibration









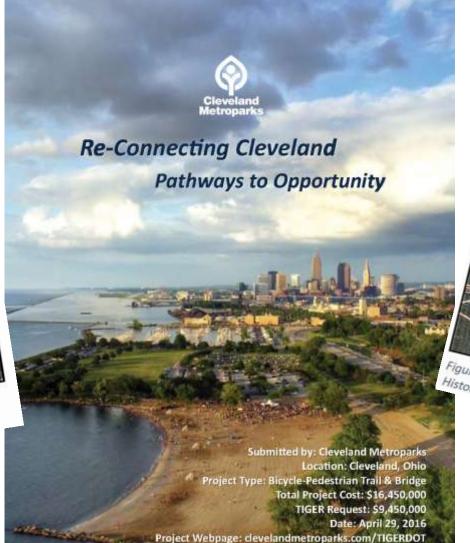
Re-Connecting Cleveland Project		TIGER	TIGER % of Total	Federal	Federal CMAQ % of Total	Pending	State/ Local % of Total
Component	Cost	Request	Cost	CMAQ	Cost	State/Local	Cost
Wendy Park Bridge							
Construction	\$6,000,000	\$1,000,000	6.1%	\$0	0.0%	\$5,000,000	30.4%
Whiskey Island Connector							
Design/Engineering	\$200,000	\$150,000	0.9%	\$0	0.0%	\$50,000	0.3%
Construction	\$2,900,000	\$2,100,000	12.8%	\$0	0.0%	\$800,000	4.9%
Cleveland Lakefront Bikeway Connector							
Design/Engineering	\$30,000	\$0	0.0%	\$0	0.0%	\$30,000	0.2%
Construction	\$500,000	\$500,000	3.0%	\$0	0.0%	\$0	0.0%
Canal Basin Park Connector							
Design/Engineering	\$20,000	\$0	0.0%	\$0	0.0%	\$20,000	0.1%
Construction	\$200,000	\$200,000	1.2%	\$0	0.0%	\$0	0.0%
Red Line Greenway							
Design/Engineering	\$600,000	\$600,000	3.6%	\$0	0.0%	\$0	0.0%
Construction	\$6,000,000	\$3,400,000	20.7%	\$2,080,000	12.6%	\$520,000	3.2%
Total	\$16,450,000	\$7,950,000	48.3%	\$2,080,000	12.6%	\$6,420,000	39.0%

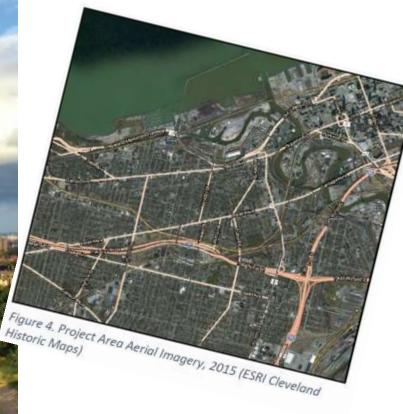




Transportation Investment Generating Economic Recovery (TIGER)









Transportation Investment Generating Economic Recovery (TIGER)



Figure 3. Project Area Aerial Image Historic Maps)

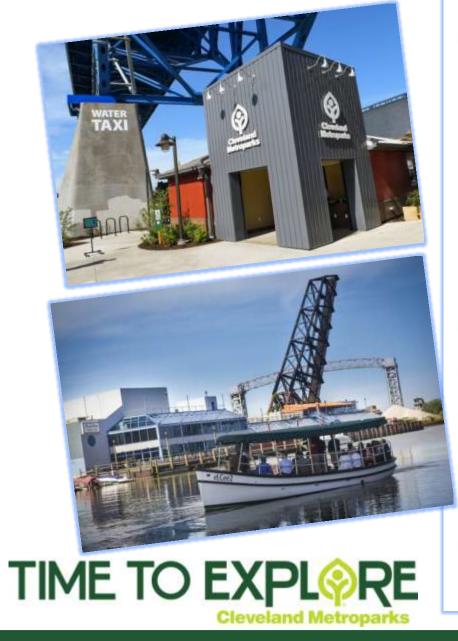
Re-Connecting Cleveland: Pathways to Opportunity Summary of Relevant Community Plans

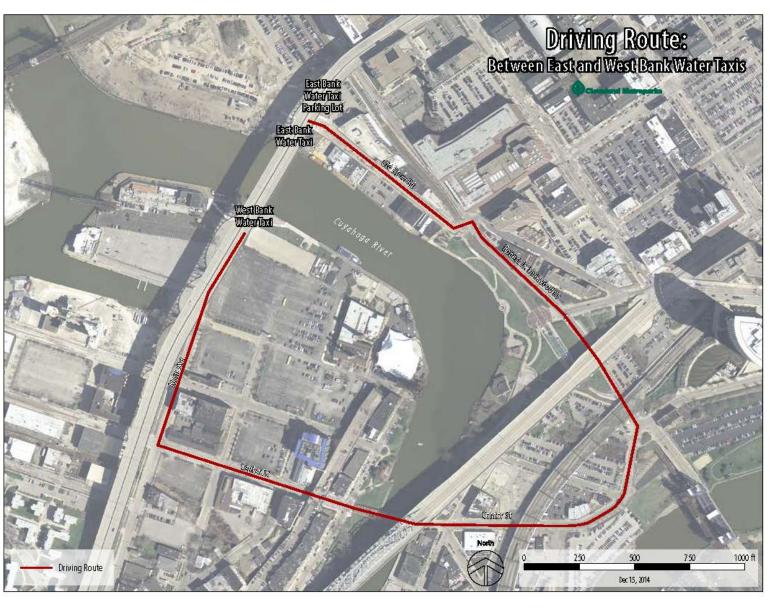
- 1. Cleveland Waterfront District Plan
- 2. Cleveland Bikeway Master Plan
- 3. Canal Basin Framework Plan
- 4. The Canal Basin District Plan
- 5. Cleveland Metroparks 2020 Plan: The Emerald Necklace Centennial Plan
- 6. Cleveland Metroparks Lakefront Reservation Master Plan
- 7. 2014 Flats Forward Framework Plan
- 8. Connecting Cleveland 2020 Citywide Plan
- 9. Duck Island Neighborhood Plan
- 10. Gordon Square Community Master Plan
- 11. Ohio City Vision, Transit-Oriented Development: Inter-Modal Urban Design & Wayfinding Plan for the Market District
- 12. Step Up Cleveland: Vision & Tactical Plan for Downtown Cleveland
- 13. Towpath Trail Extension: Alignment and Design Study
- 14. Vibrant NEO 2040: A Vision, Framework, and Action Products for Our Future
- 15. Wendy Park on Whiskey Island: Management Plan 2012
- 16. West 65th Street Corridor Plan

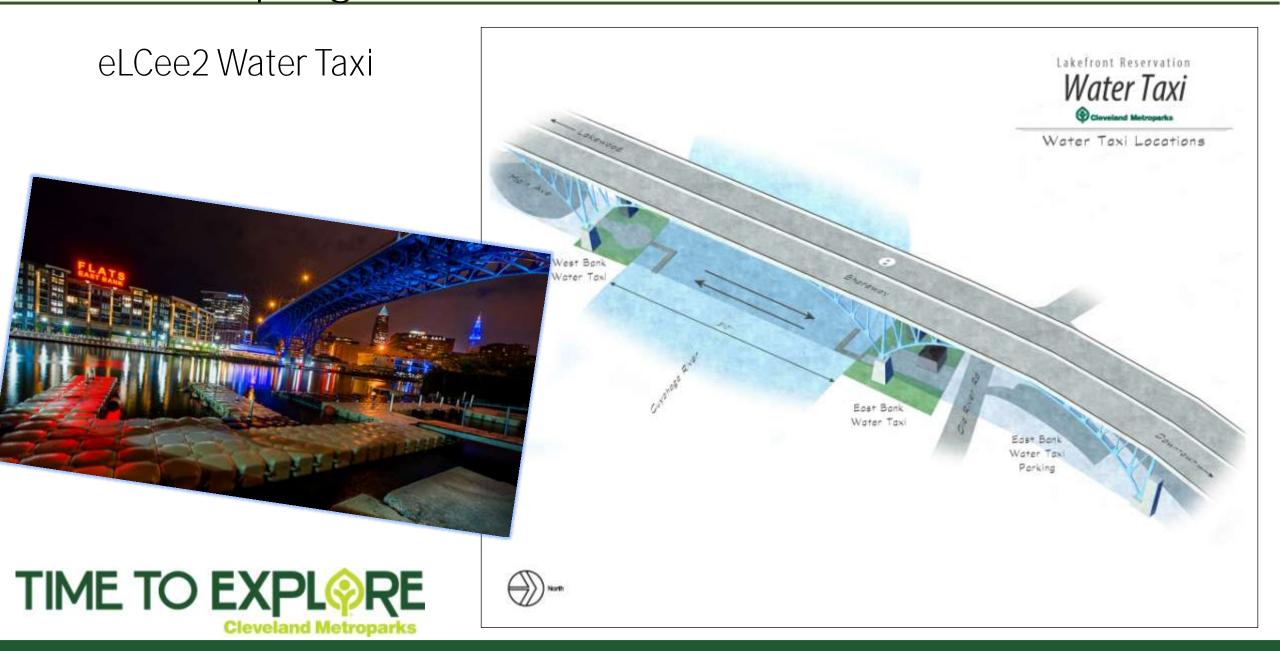








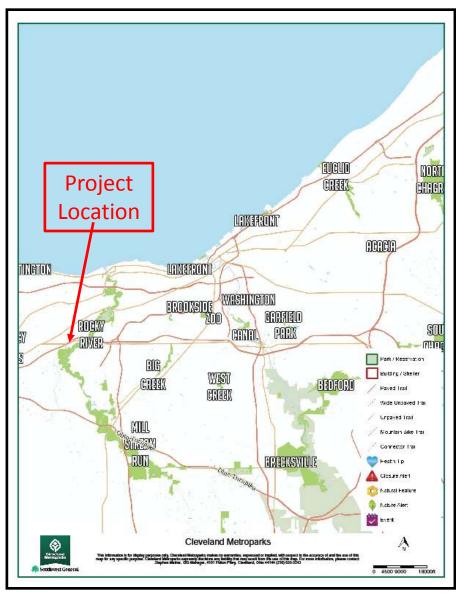


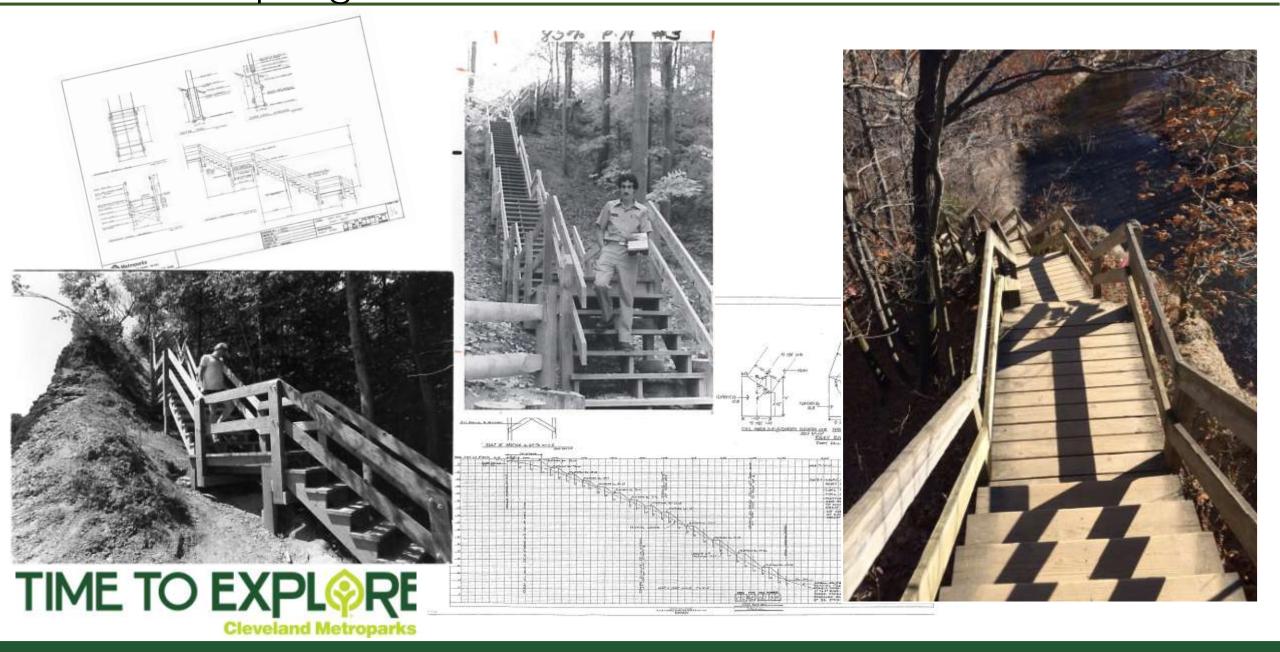


Developing Trails in Northeast Ohio Rocky River Reservation – Fort Hill Steps









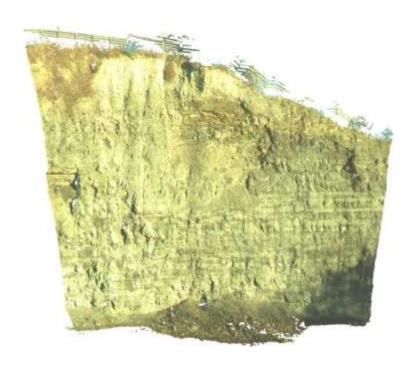








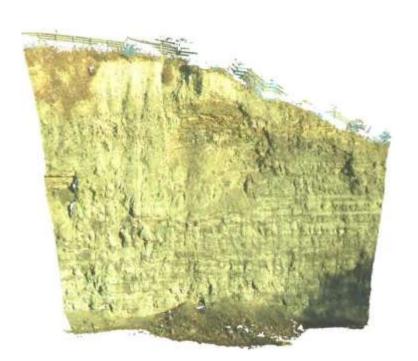


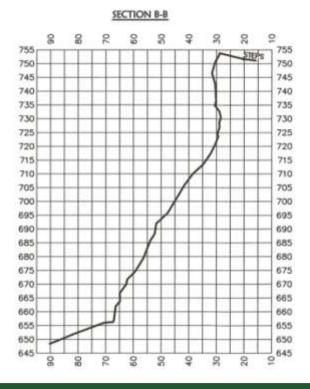




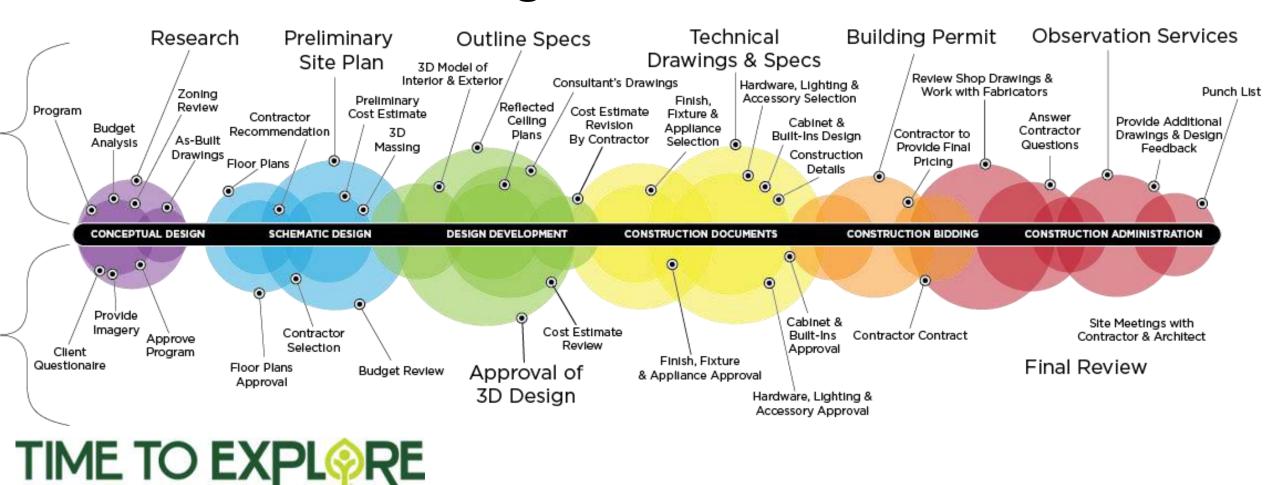








Developing Trails in Northeast Ohio Capital Construction Design-Bid-Build



Developing Trails in Northeast Ohio Capital Construction

Conceptual Design/ Due Diligence Design-Bid-Build

Schematic Design

Design Development

Construction Documents

Bidding



Construction

Capital Construction

Conceptual Design/ **Due Diligence**

Design-Bid-Build When does contractor when does contractor the scene????

Schematic Design

Design Development

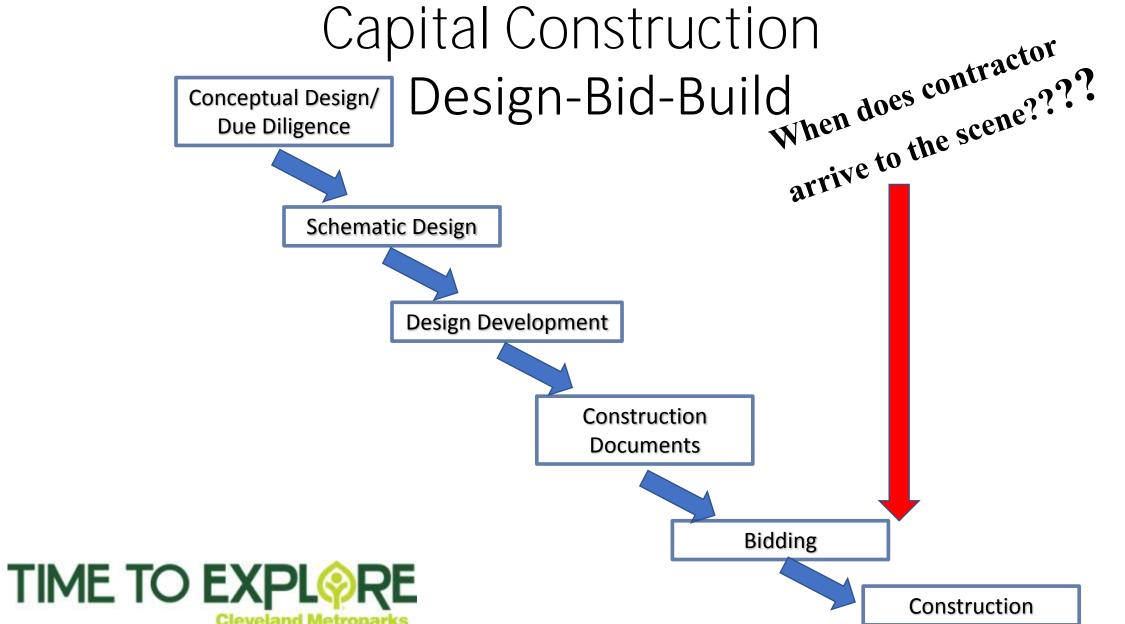
Construction **Documents**

Bidding

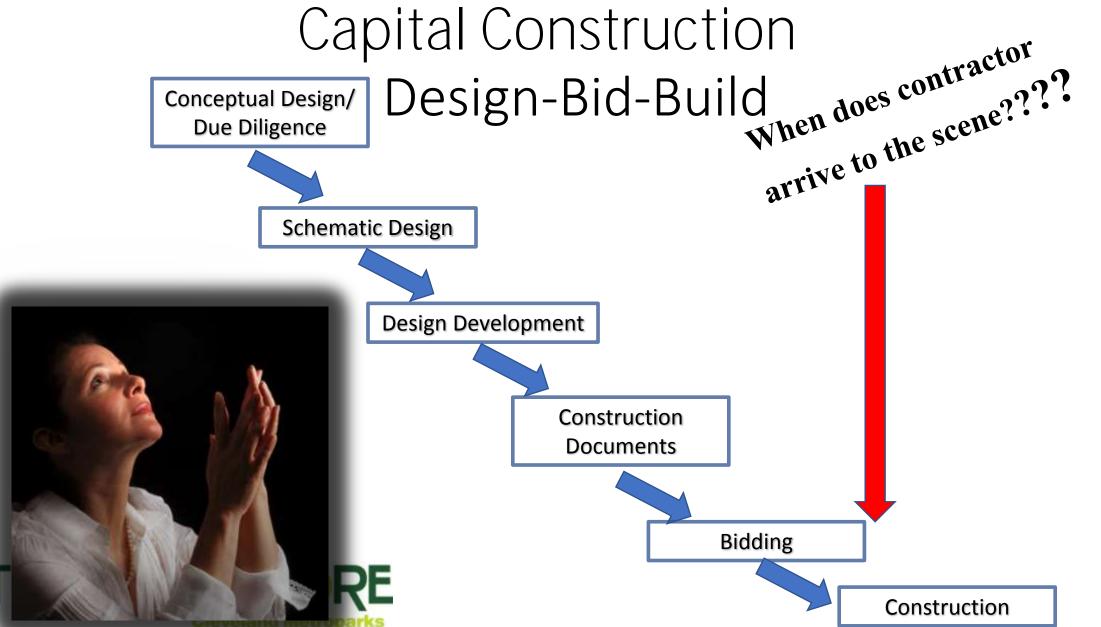


Construction

Capital Construction



Capital Construction



Capital Construction

Conceptual Design/ **Due Diligence**

CMR & Design-Buildcontractor
When does to the scene?????

arrive to the scene????

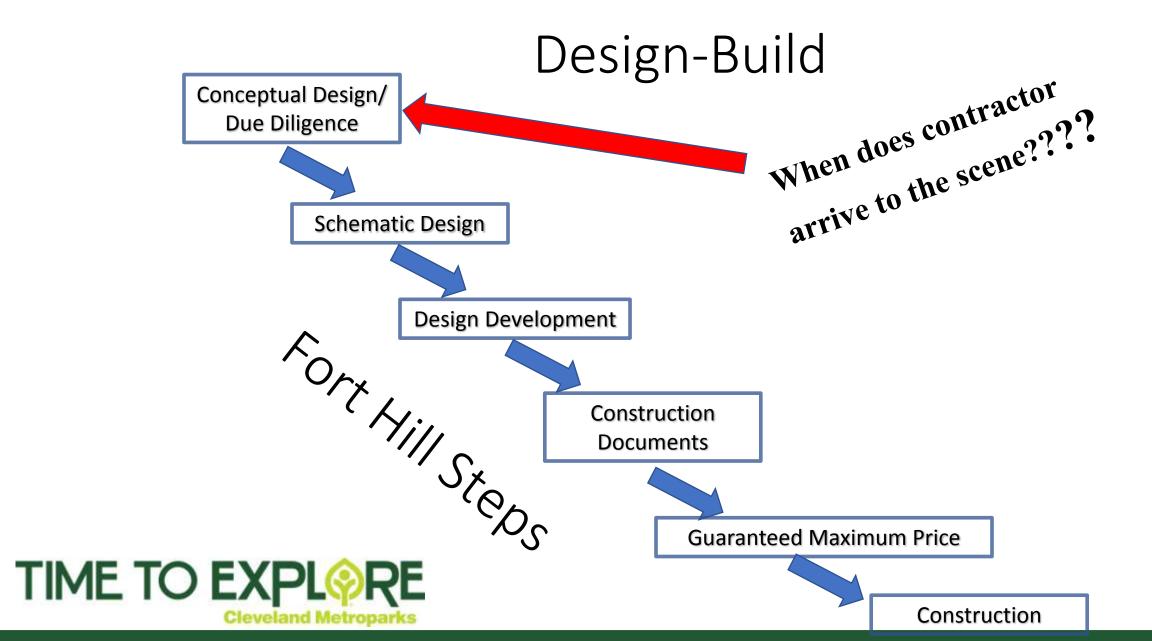
Schematic Design

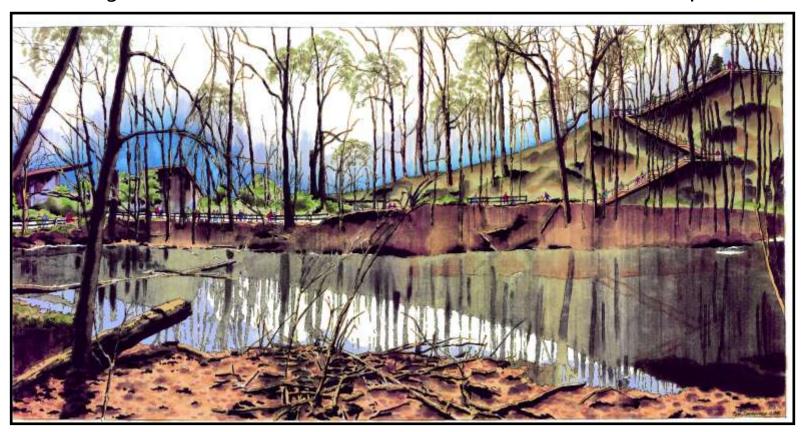


Construction **Documents**

Guaranteed Maximum Price

Construction



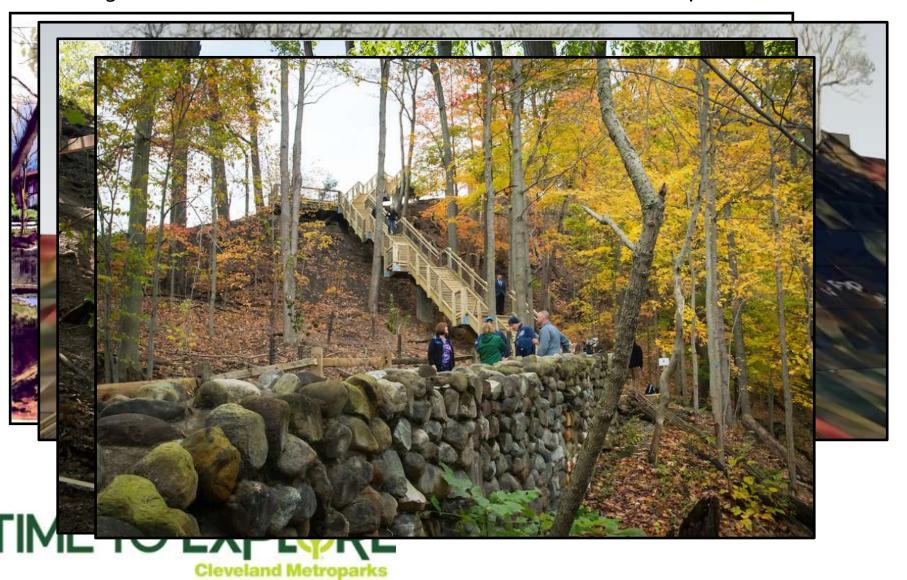
















Cleveland Metroparks Reservation Plan Updates





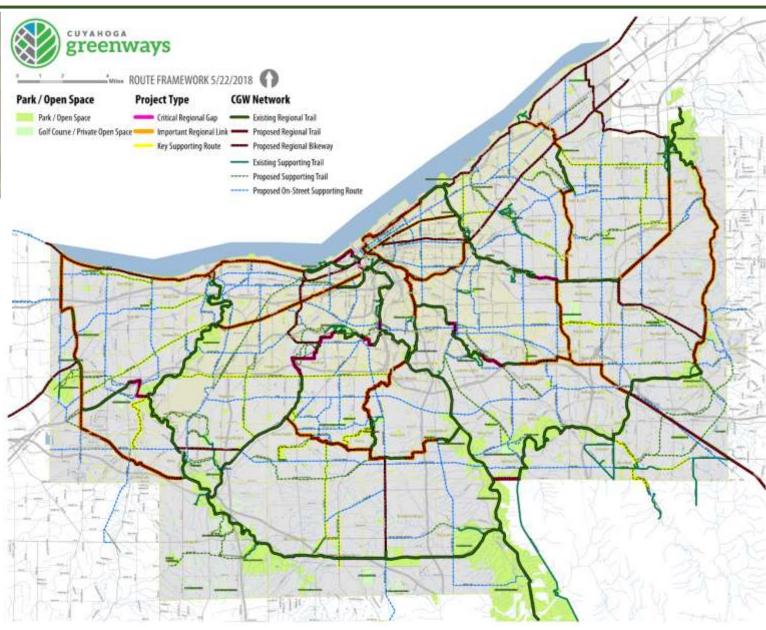




Cuyahoga Greenways is a joint effort between County Planning, Cleveland Metroparks, and NOACA to build an interconnected system of greenways and trails that link neighborhoods, parks, and public transportation, and create a comprehensive countywide active transportation network.







Vision for the Valley



- Renewed Land Use Vision
- Improve Multi-Modal Options
 - Trail
 - Maritime
- Improved Public Safety
- Increased Public Space
- Connect the East & West Neighborhoods
- Marketing of the River Valley
- Overall Unified Vision



