Troy Downtown Development Authority **Big Beaver Landscape Improvements**

Concept Presentation





Progress Meeting

Agenda

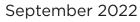
Agenda

Update on DDA Financial Standing

Review Previous Work

Present Concept Design

Discuss Phase 1 Implementation





TDDA Financial Standing



Downtown Development Authority

County of Oakland, State of Michigan

2021/22 through 2023/24 Budget

	2020 Actual	2021 Estimated	2021 Budget	2022 Budget	2023 Budget
REVENUE					
Property Taxes	\$ 1,763,992	2 \$ 1,792,440	\$ 1,792,440	\$ 1,482,770	\$ 1,987,160 \$
State Revenue Sharing-EMPP			-	-	-
Parking Deck Repayment		4,029,736	4,035,170	-	-
Interest Income	45,244	25,000	10,000	10,000	10,000
Total Revenues	1,809,236	5,847,176	5,837,610	1,492,770	1,997,160
EXPENDITURES					
Administrative Expenses	26,500	27,000	27,000	50,000	51,000
Audit Fees	5,100	3,200	3,220	3,300	3,400
Tax Tribunals	10,833	3 25,000	25,000	25,000	25,000
Quality Development Initiative (QDI)	13,080	30,250	30,250	45,380	45,380
Big Beaver Corridor Maintenance	171,248	8 289,685	338,155	314,635	310,115
Debt Service-Series 2013/2020	914,613	3,990,712	1,013,738	596,663	629,895
District Promotion		- 25,000	25,000	25,000	25,000
Other expenditures		· 1,200	1,200	1,200	1,200
TOTAL - EXPENDITURES	1,141,374	4,392,047	1,463,563	1,061,178	1,090,990
SURPLUS (USE) OF FUND BALANCE	667,862	1,455,129	4,374,047	431,592	906,170
BEGINNING FUND BALANCE	1,003,560	1,671,422	1,671,422	3,126,551	3,558,143
ENDING FUND BALANCE	\$ 1,671,422	\$ 3,126,551	\$ 6,045,469	\$ 3,558,143	\$ 4,464,313 \$

 \$ 2,269,050 - 10,000 2,279,050 2,279,050 3,500 25,000 45,380 315,065 702,857 25,000 1,200 1,170,002 	2024 Budget
2,279,050 52,000 3,500 25,000 45,380 315,065 702,857 25,000 1,200 1,170,002	\$ 2,269,050
2,279,050 52,000 3,500 25,000 45,380 315,065 702,857 25,000 1,200 1,170,002	-
52,000 3,500 25,000 45,380 315,065 702,857 25,000 1,200 1,170,002	- 10,000
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1,170,002	25,000
	1,200
1,109,048	1,170,002
.,	1,109,048
4,464,313	4,464,313
\$ 5,573,361	\$ 5,573,361



Progress Review

Project Area



Troy Downtown Development Authority Big Beaver Landscape Improvements



Project Drivers



High Impact

Prioritize cohesive, overall identity and impact, rather than concentrating investment in small pockets



Adaptable

Realize and create opportunities for placemaking and civic pride



Timeless

Tap into proven design strategies which perform through time



Safe



Enjoyable

Improvements should create an enriching and enjoyable experience



Unique

Create experience which is specific to the Big Beaver Corridor / City of Troy



Balanced

Balance improvements between creating great spaces and meeting the needs of the corridor



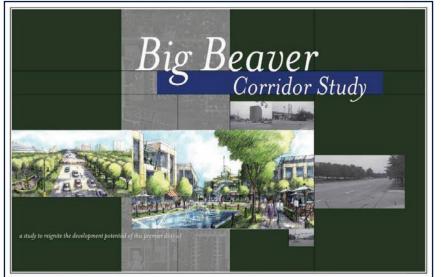


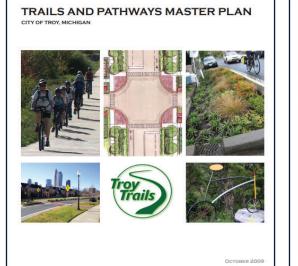
Create safe experiences for all, regardless of mode of transit

Integrate with surrounding context



Previous Documents and Initiatives









Big Beaver Corridor Study | 2006

Trails and Pathways Master Plan | 2009

City Master Plan | 2017

Move Across Troy | 2017

Social Spaces

- Engaging Public Spaces
- Big Beaver Promenade
- Development of Social Nodes

Safety and Mobility

- Complete Streets
- Mobility
- Mid-Block Crossings
- Walkability Toolbox

Environmental Responsibility

- Sustainable Development
- Stormwater Management





on Online Survey



Chamber of Commerce Hospitality Group



Feedback

Overall Comments

- among top goals
- Shopping, Restaurants and Busy"

What's Working?

- for consistency and maintenance
- lighting

What Needs Attention?

- of the west side
- DDI presents challenges and opportunities
- Generally not seen as friendly to become one

• Safety, High Impact and Timeless rank

• Dominant impressions were "Traffic,

Somerset Collection landscape is favored

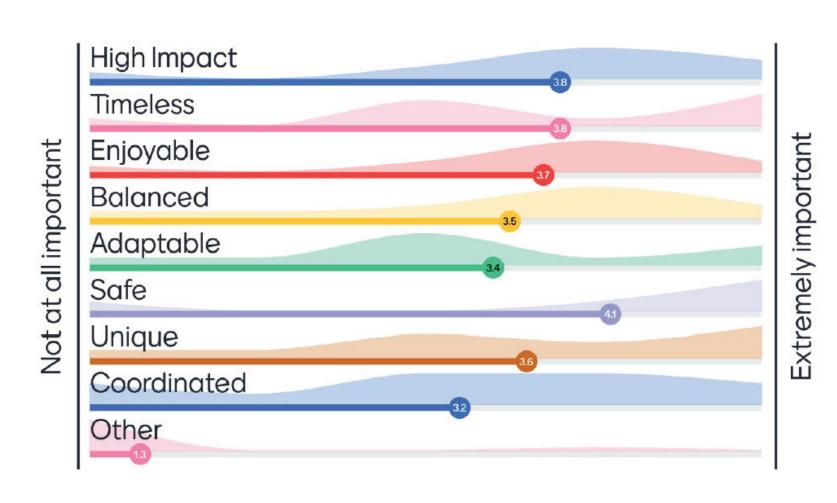
 Strong community connection to mature trees and evergreens, especially seasonal

• East side of I-75 does not have the appeal

pedestrians, however people feel it should



Chamber of Commerce Hospitality Group



Feedback

Landscape Character

- Welcoming and comfortable
- more refined and elegant

Diverging Diamond Interchange

- Increase landscaping
- Investigate pedestrian safety

Pedestrian Safety and Comfort

- landscaping
- **Big Beaver**

• Multiple perspectives: Bold and vibrant vs

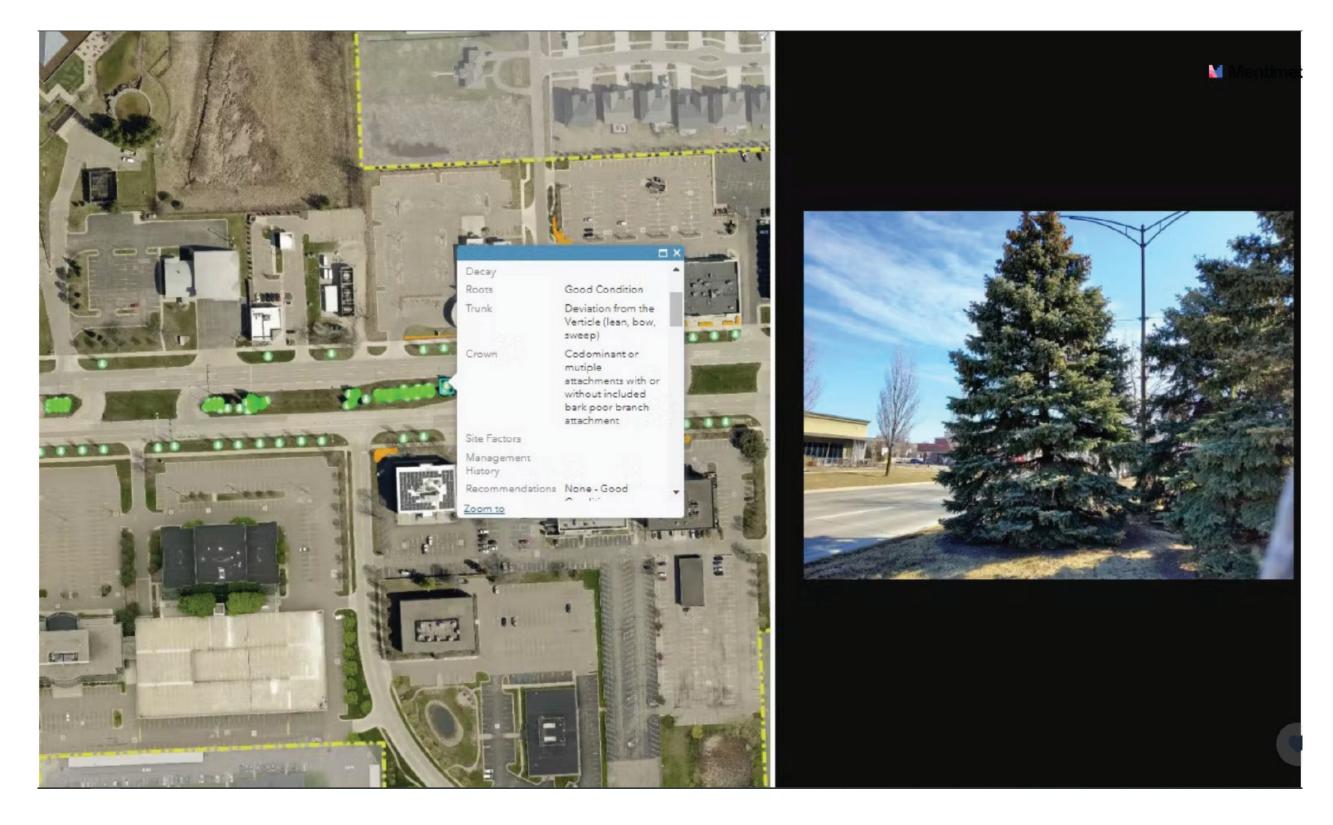
• Perceived lack of safety for pedestrians

• Desire for increased pedestrian comfort through buffering, seating, signage and

• Desire for more pedestrian crossings of

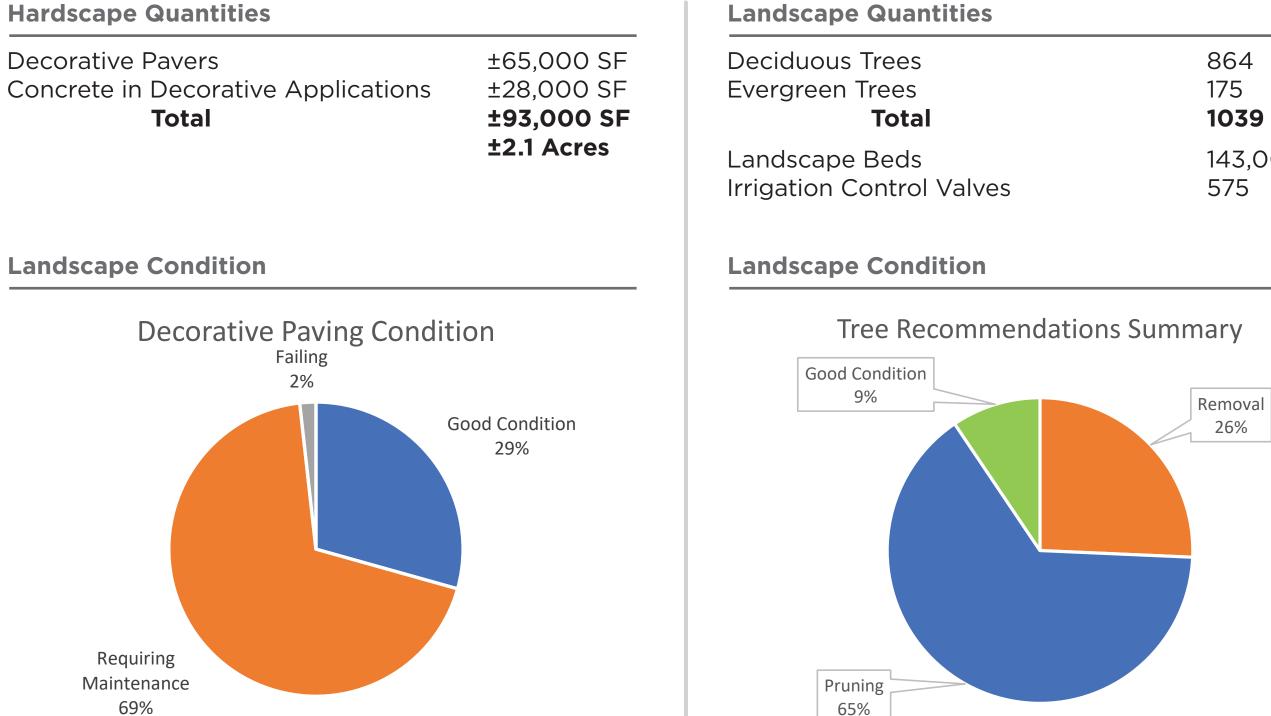


Data Collection



Troy Downtown Development Authority Big Beaver Landscape Improvements





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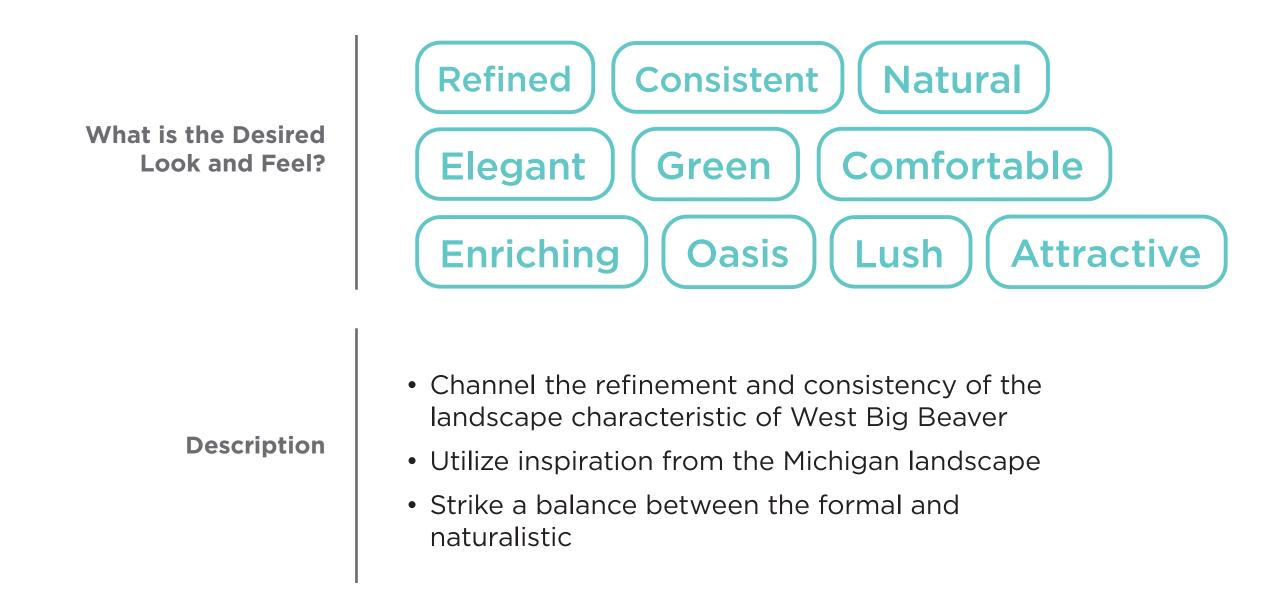
143,000 SF

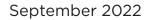




Look and Feel

Consistency Through Nature

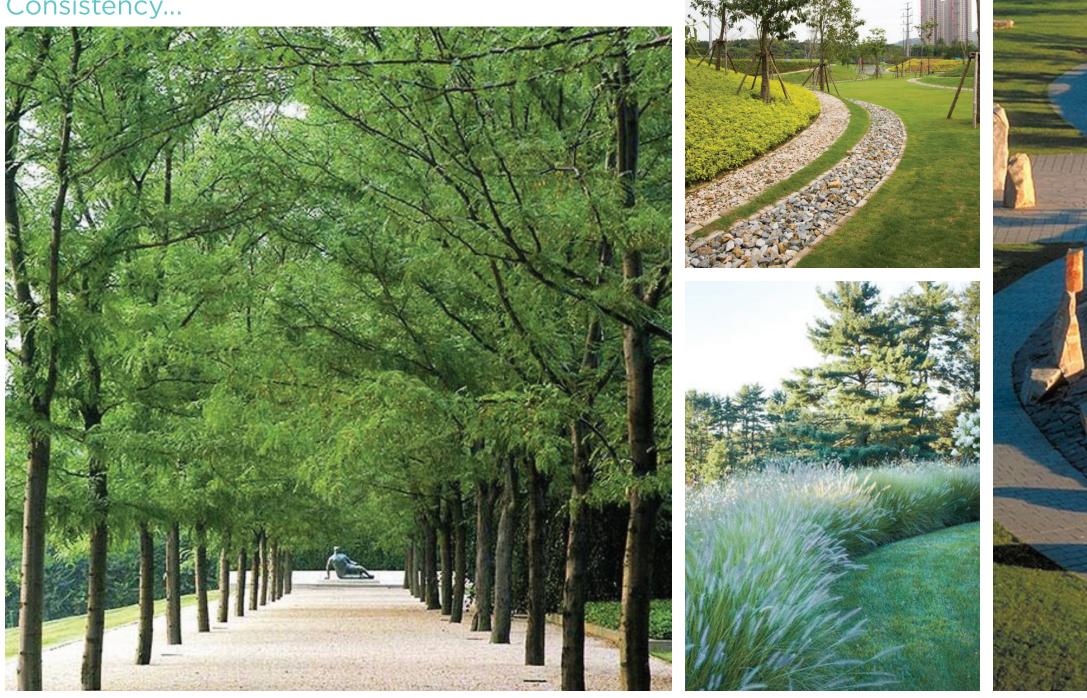






Look & Feel

Consistency...



Troy Downtown Development Authority Big Beaver Landscape Improvements





Look & Feel



...Through Nature



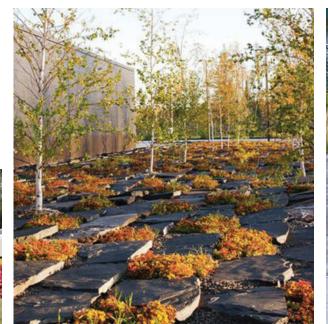


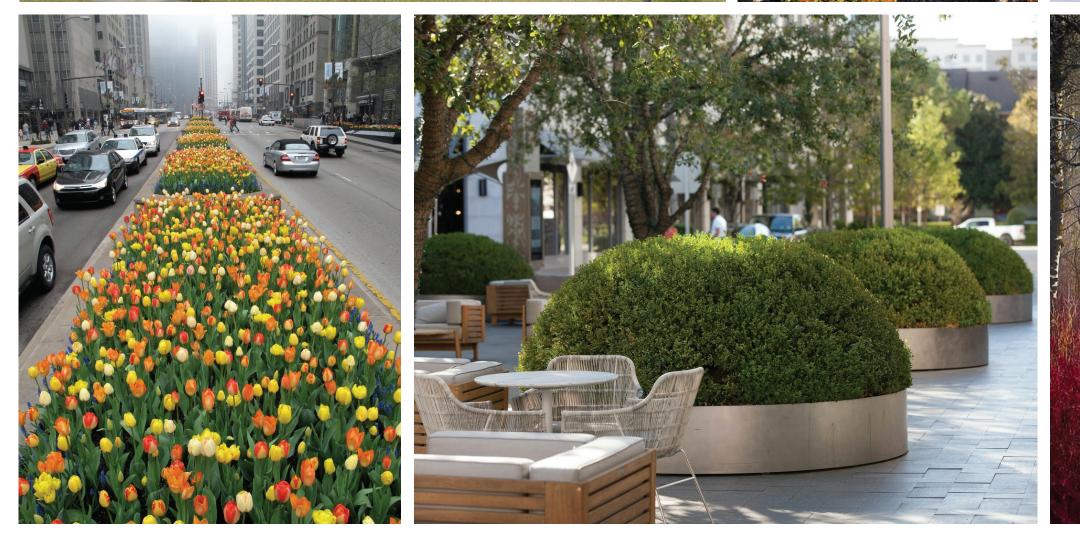


Look & Feel

Texture, Color and Variety









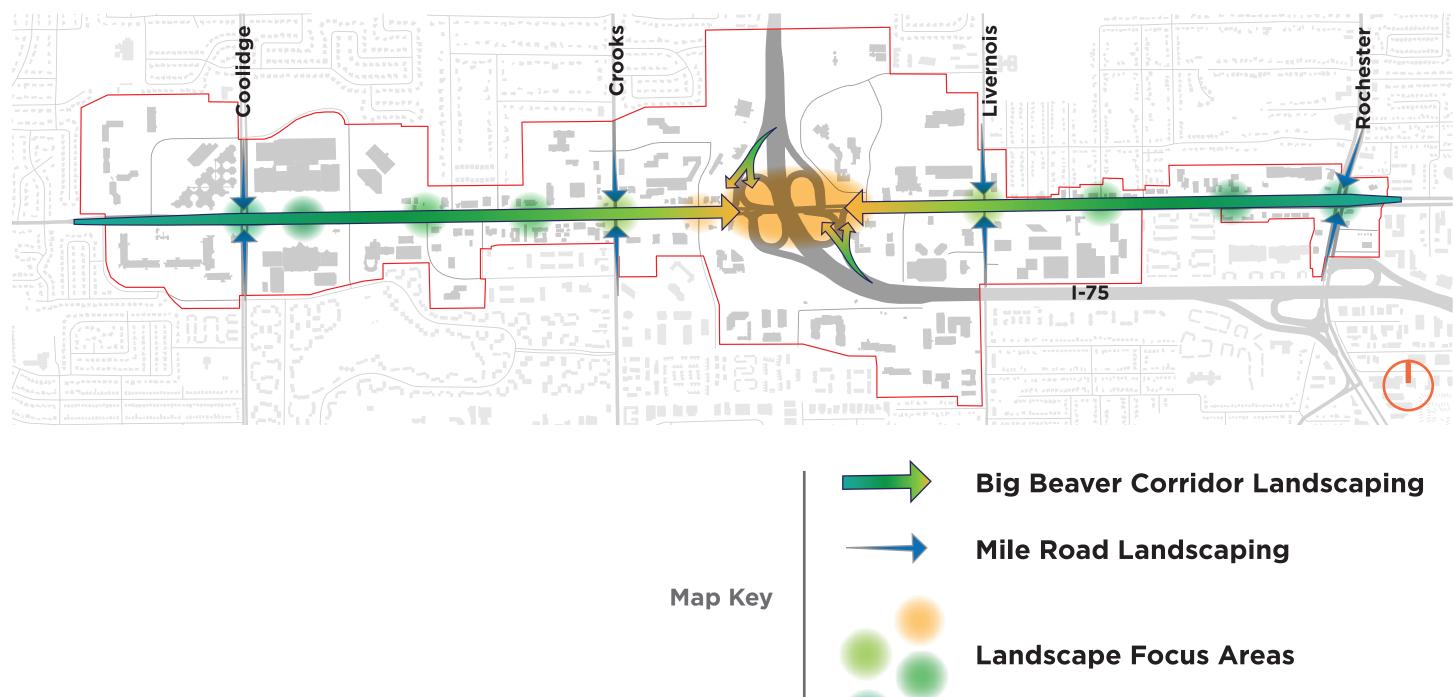




Troy Downtown Development Authority Big Beaver Landscape Improvements



Corridor Approach



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Project Awards

Award Granting Organizations

American Planning Association (APA)

Planning Excellence Award

American Society of Landscape Architects

- General Design
- Urban Design
- Analysis and Planning

Urban Land Institute (ULI)

- Open Submission
- Resilient Development

Congress for New Urbanism (CNU)

Neighborhood, District and Corridor

Association for Civil Engineering Companies (ACEC)

• Transportation

American Public Works Association (APWA)

Exceptional Performance Award

Award Submission Themes

Impact of long-term planning and design

- City and DDA focused efforts to develop regional destination, which Big Beaver as a catalyst
- Landscaping nearly 30 years prior
- Learning through time and advancing corridor to meet the needs of changing uses today
- Result is international destination which continues to evolve and respond to changing needs

Designing for Longevity and Maintenance

- Right plant, right place
- Using artful site elements to shield and buffer landscape from snow and salt
- Lasting materials which are cognizant of resources

Sustainability and Resilience

- Material Selection Defined radius for material sourcing
- Plant Selection Reduced water and mowing needs
- Carbon Sequestration Quantification of tree benefits
- Pedestrian Access Enhanced pedestrian access through creative engineering

Design Excellence

- Multi-faceted and multi-disciplinary approach
- Design impact at local and regional scale
- Prioritization of materials endemic to region



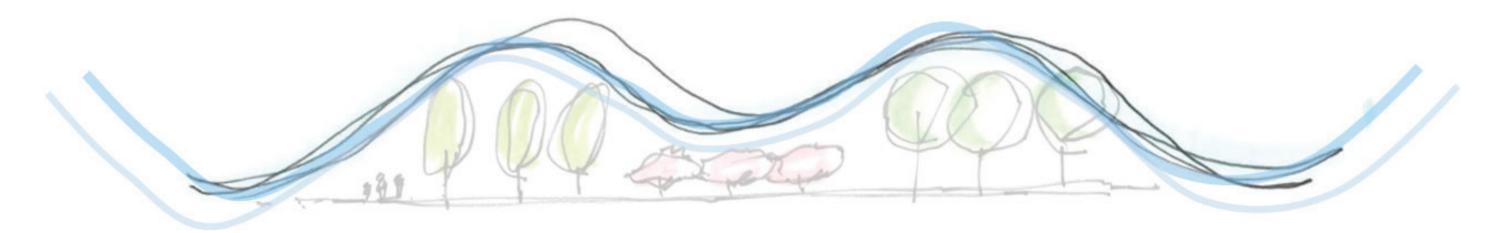


Troy Downtown Development Authority Big Beaver Landscape Improvements





Concept Sketch



Peaks/Ridges & Valleys = Fluidity of Scale = Dynamic Sense of Enclosure

Planting for Color, Texture, Seasonal Interest and Ecological Benefit

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Evergreen Trees



EASTERN RED CEDAR Juniperus virginiana

BLUE SPRUCE Picea pungens

Pinus nigra





LARCH Larix laricina



Deciduous Trees



Quercus rubra

BLACK GUM *Nyssa sylvatica*

Troy Downtown Development Authority Big Beaver Landscape Improvements September 2022

Betula nigra



AMERICAN PLUM *Prunus americana*



Shrubs



DWARF CRANBERRY BUSH *Viburnum opulus 'Nanum'*

SUMAC *Rhus typhina*

Juniperus sp.





VARIEGATED RED TWIG DOGWOOD Cornus alba 'Elegantissima'



Perennials



MILKWEED Asclepias syriaca

BLACK EYED SUSAN *Rudbeckia hirta*

YARROW *Achillea millefolium*

Echinaceae purpurea







JOE PYE WEED Eutrochium purpureum



Grasses



LITTLE BLUESTEM *Schizachyrium scoparium*

PRAIRIE DROPSEED Sporobolus heterolepis

SWITCHGRASS *Panicum virgatum*

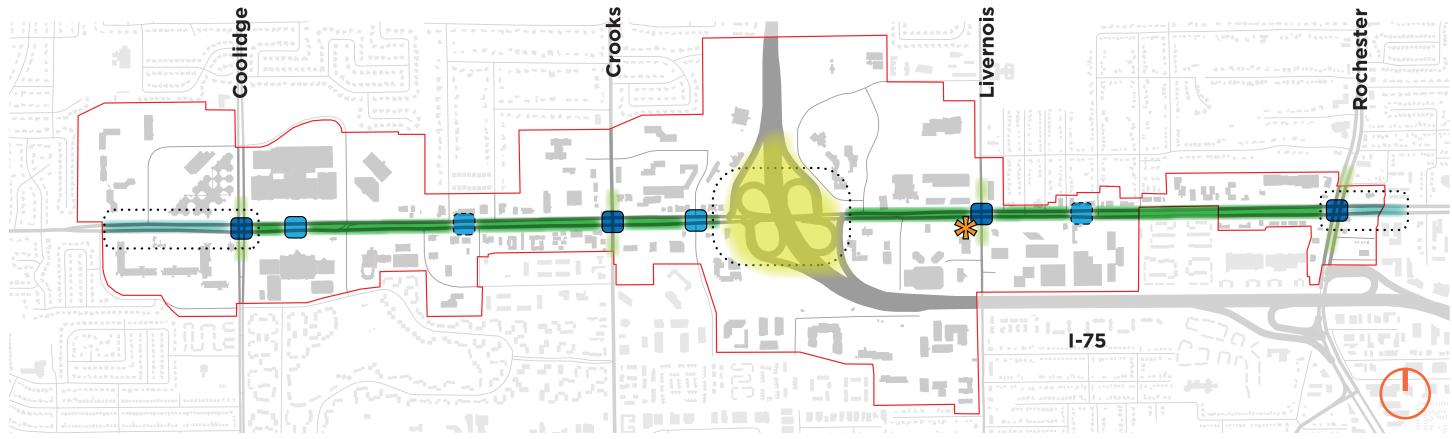


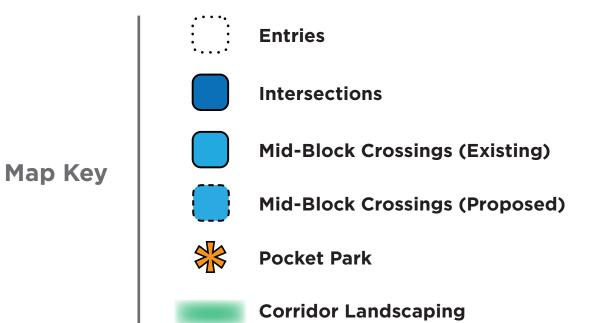
KARL FOERSTER *Calamagrostis acutifloa 'Karl Foerster'*



Corridor Overview

Project Areas





Troy Downtown Development Authority Big Beaver Landscape Improvements



Diverging Diamond Interchange

- Signature corridor entrance
- Opportunity to make traffic flows more intuitive
- Improve pedestrian comfort



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Link between East and West Big Beaver





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Inbound Perspective



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East Big Beaver Perspective









East Big Beaver Plan



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Underpass Rendering

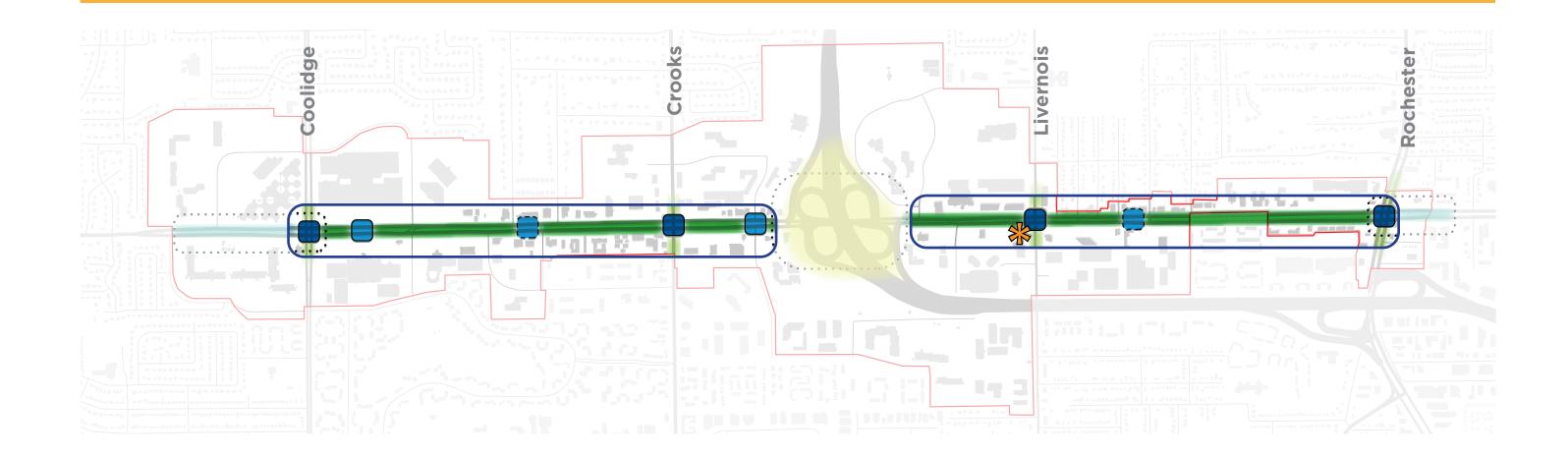


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Median Landscaping

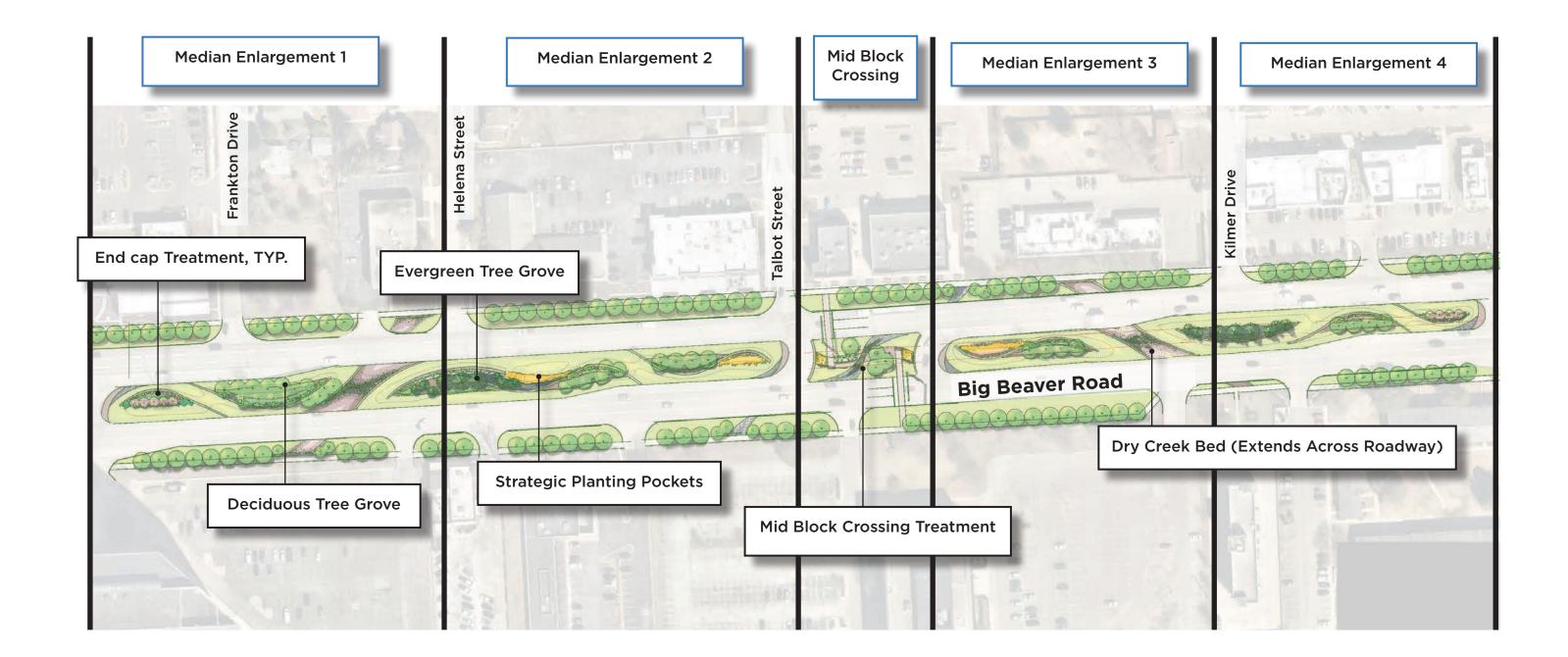
- Consistent theme through East and West **Big Beaver**
- Signature identity unique to the DDA
- Increase pedestrian comfort



Troy Downtown Development Authority Big Beaver Landscape Improvements

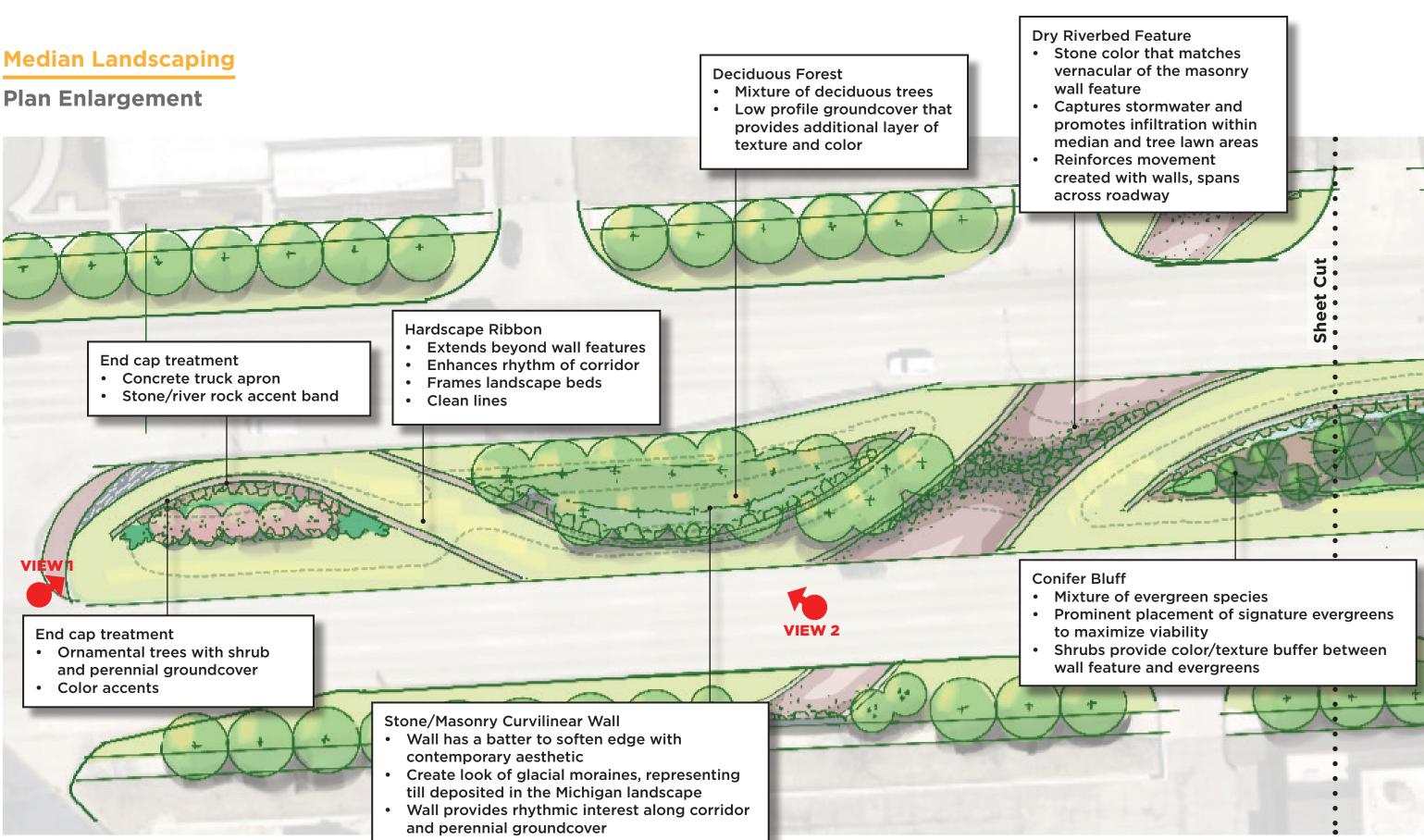


Segment Plan



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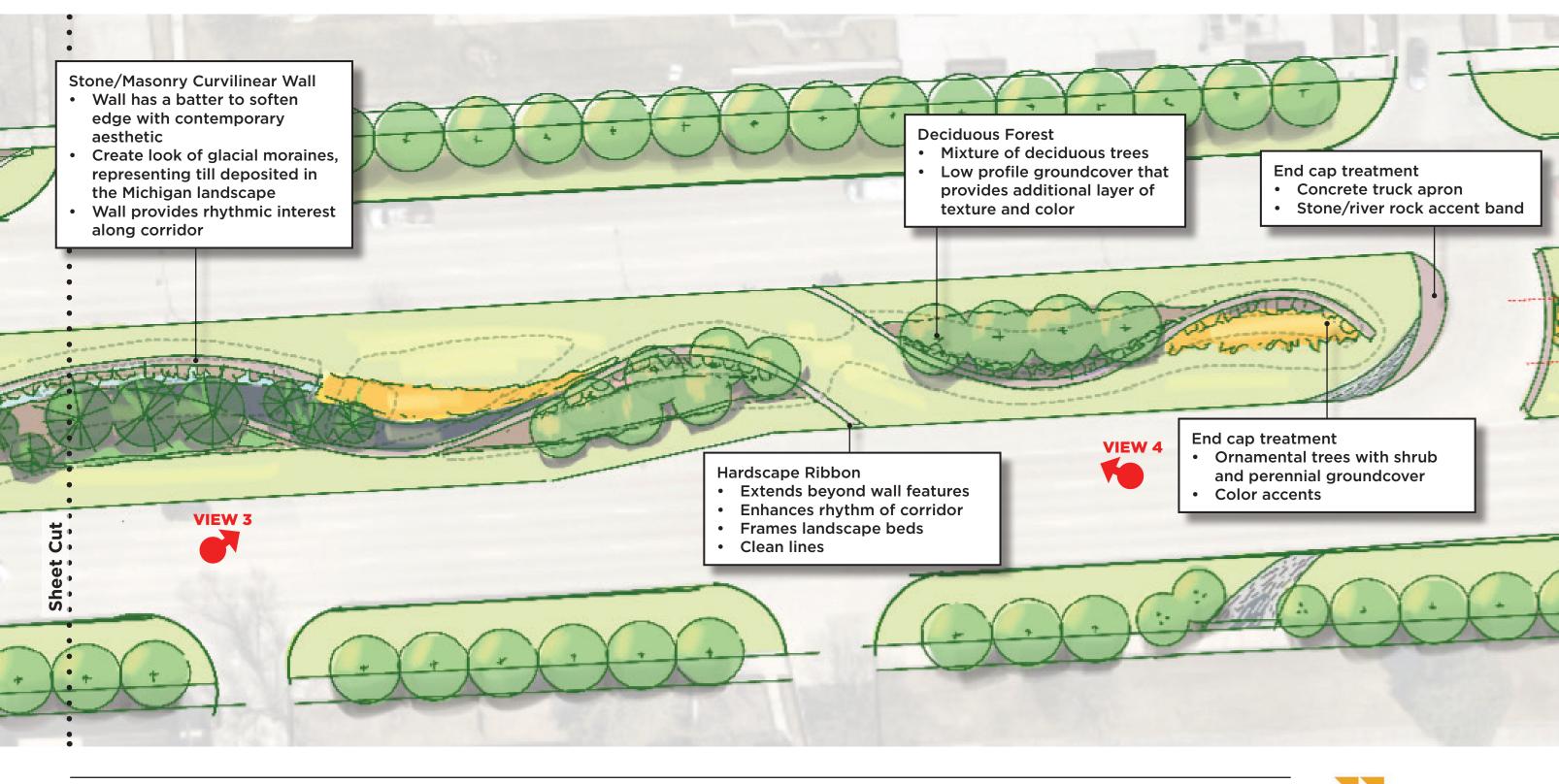




Troy Downtown Development Authority Big Beaver Landscape Improvements



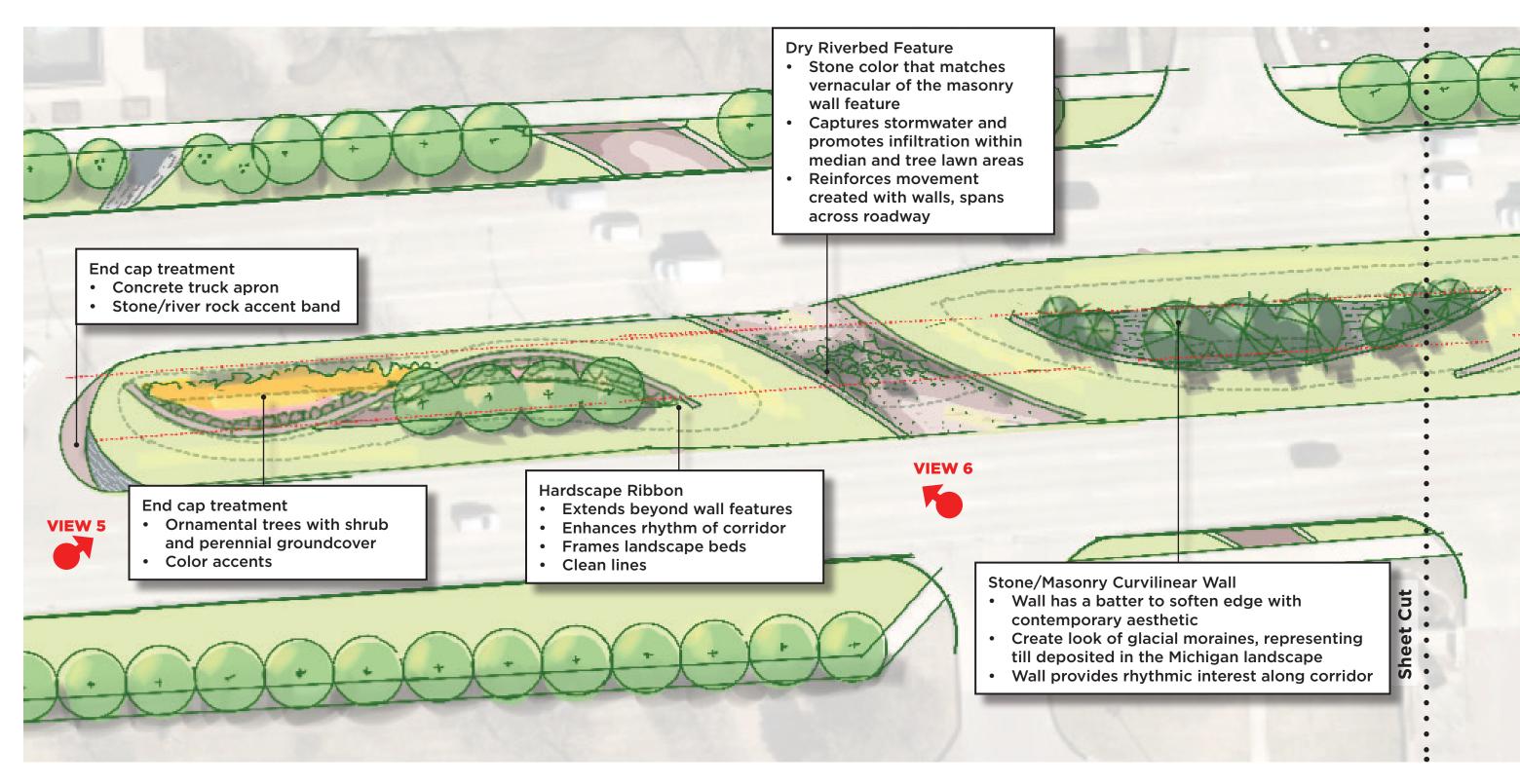
Plan Enlargement



Troy Downtown Development Authority Big Beaver Landscape Improvements

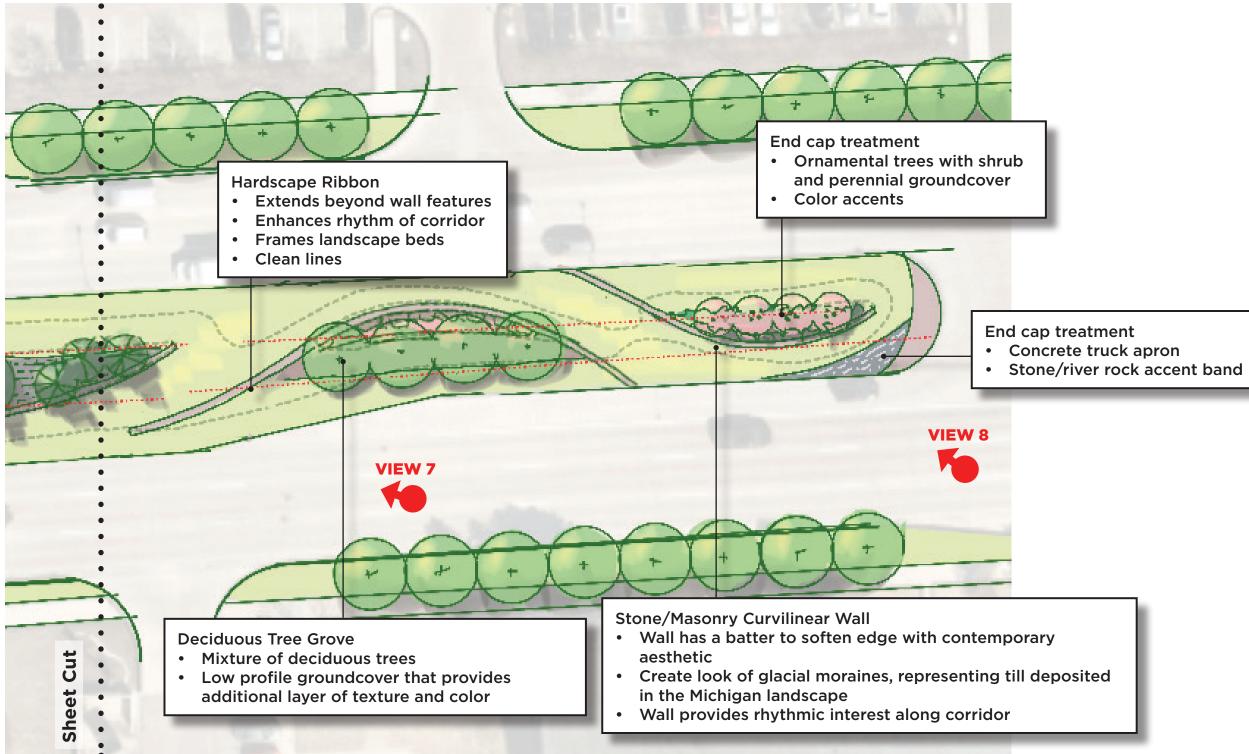


Plan Enlargement



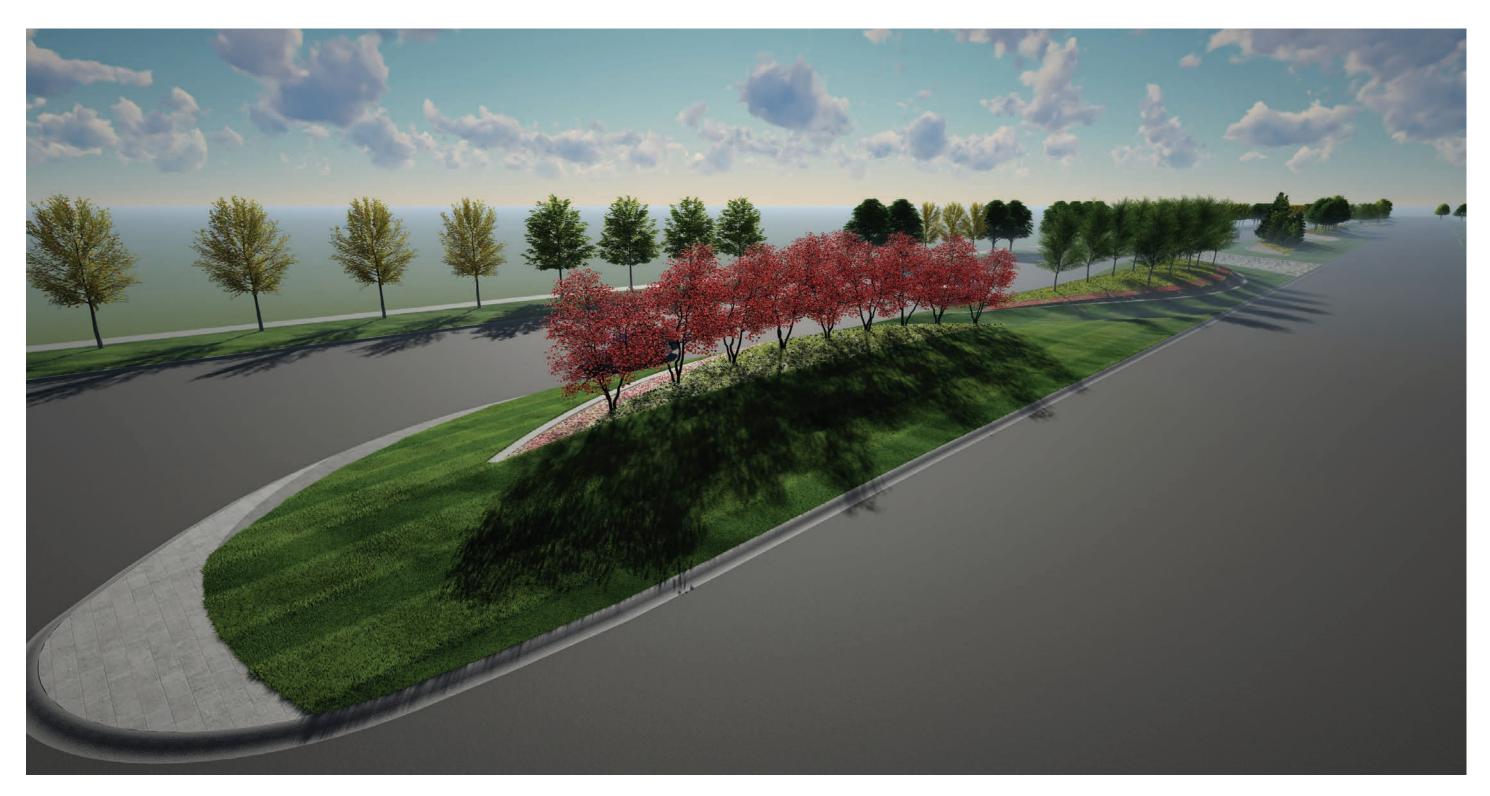


Plan Enlargement





View 1





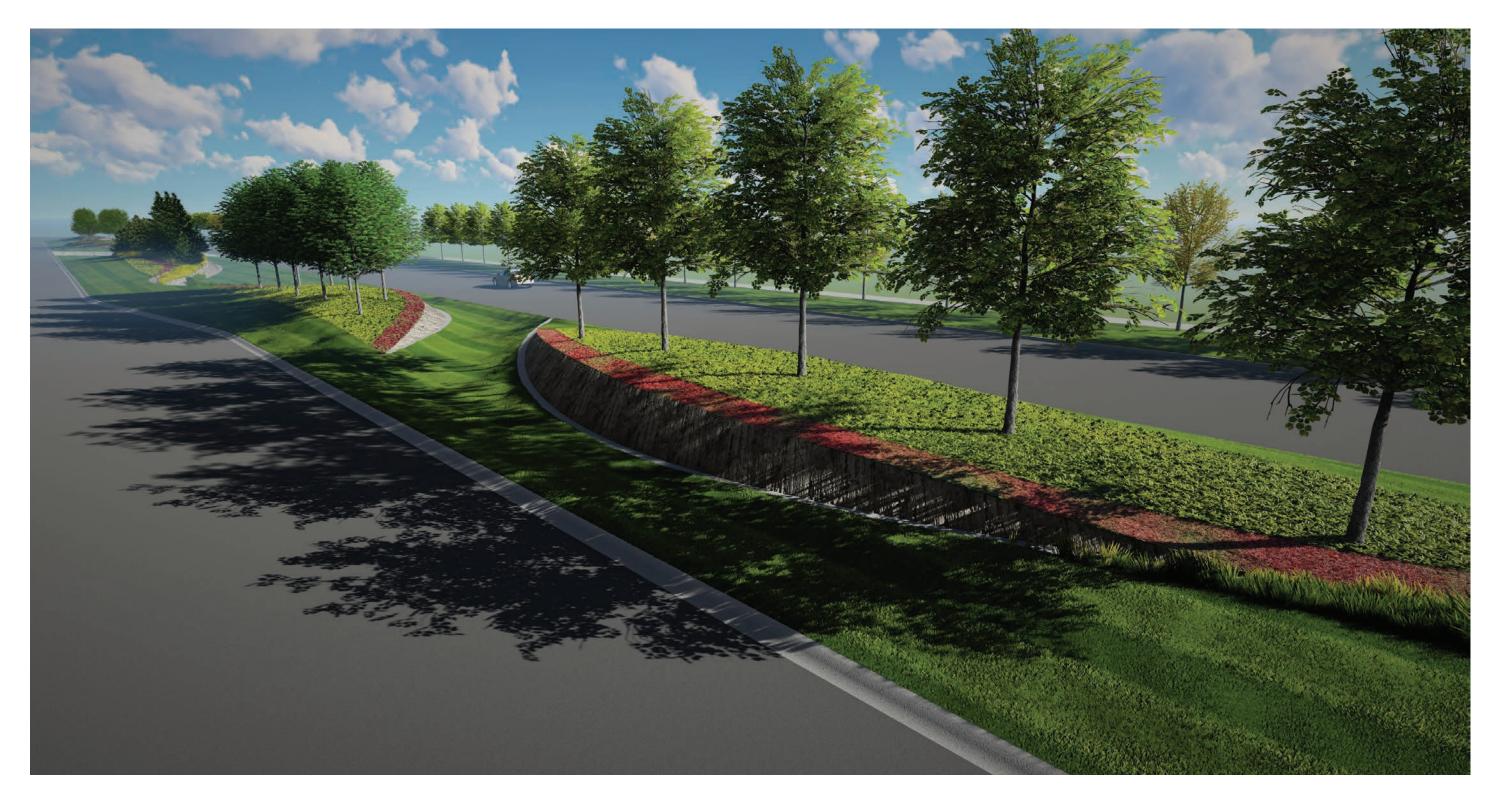
View 3



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View 4



Troy Downtown Development Authority Big Beaver Landscape Improvements



View 7



Troy Downtown Development Authority Big Beaver Landscape Improvements



View 8



Troy Downtown Development Authority Big Beaver Landscape Improvements



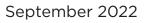
Western Gateway

- Create welcoming signature entrance
- Provide connectivity from neighborhoods to corridor

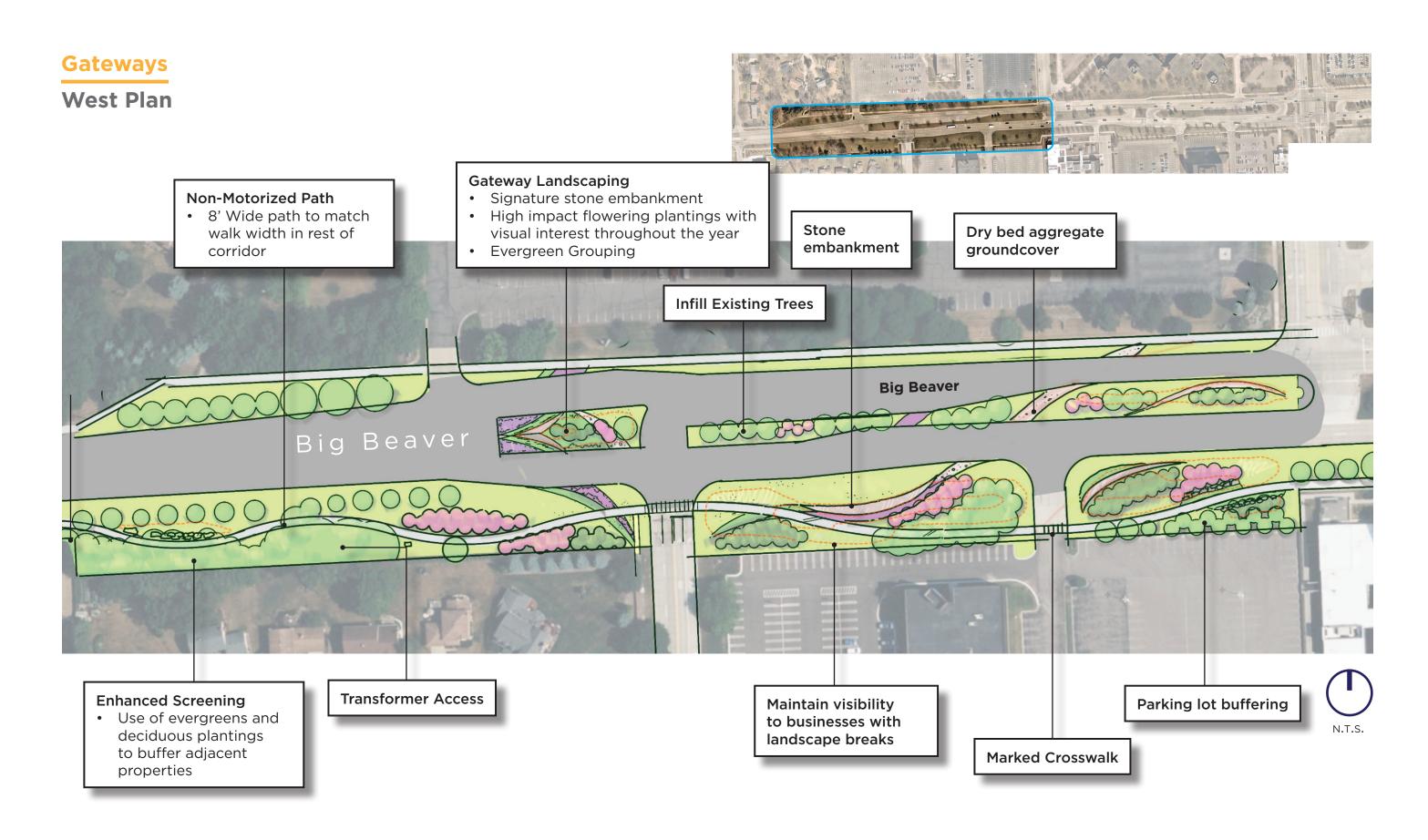


Troy Downtown Development Authority Big Beaver Landscape Improvements

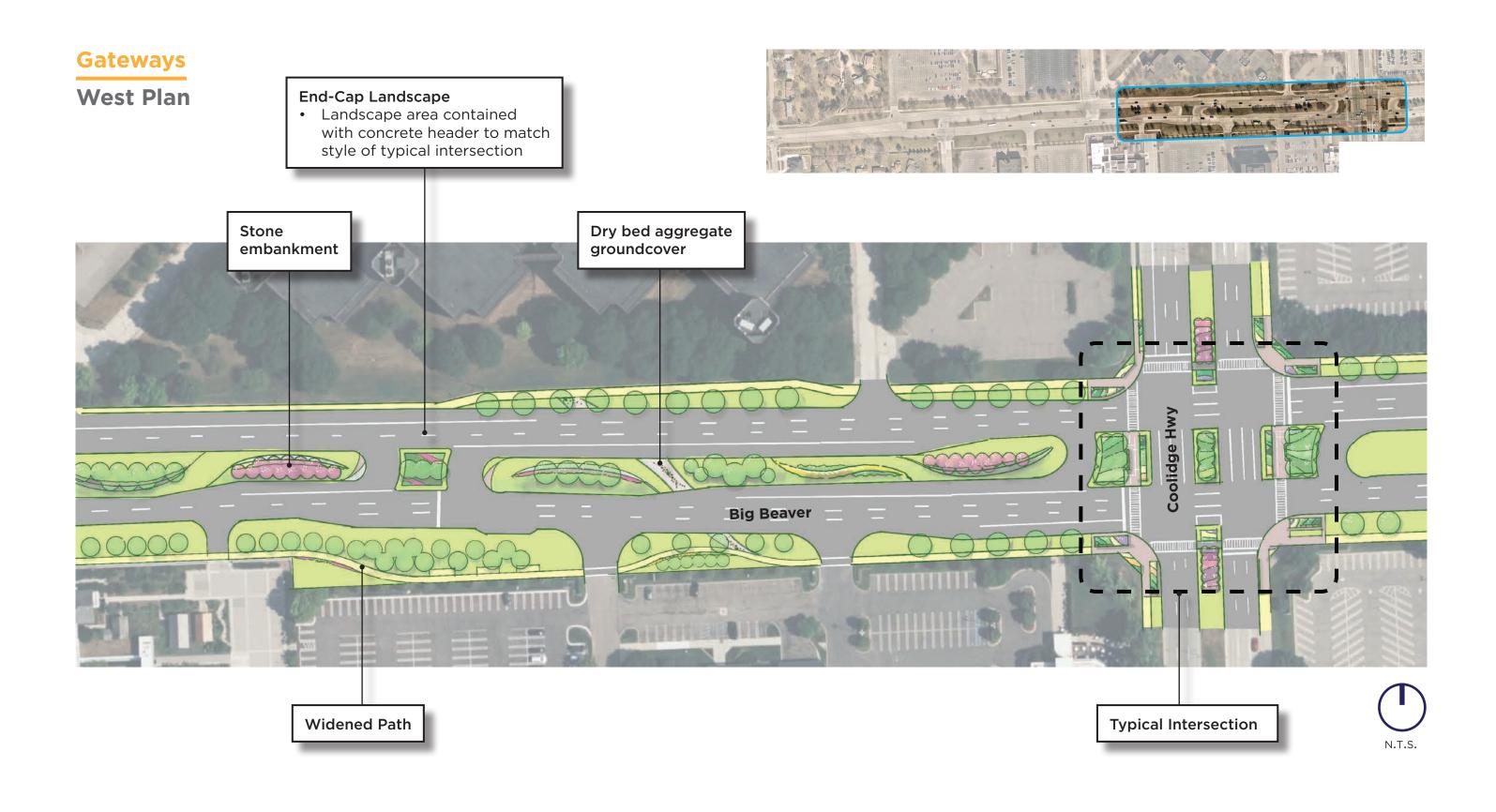
gnature entrance from neighborhoods











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West Pedestrian Perspective



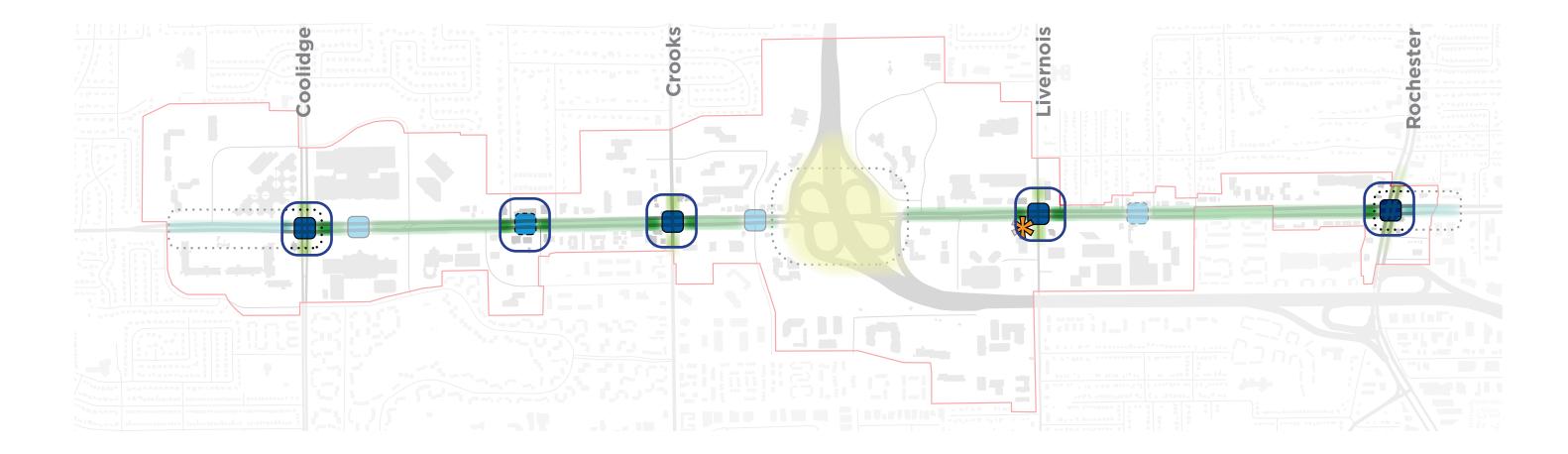
Troy Downtown Development Authority Big Beaver Landscape Improvements





Major Intersections

- Provide color and interest at locations where people enter and exit the corridor
- Finer grain landscaping at locations where pedestrians cross and cars pause at lights



Troy Downtown Development Authority Big Beaver Landscape Improvements

erest at locations and exit the corridor ing at locations where d cars pause at lights



Typical Plan Enlargement

Secondary Road Intersection Islands

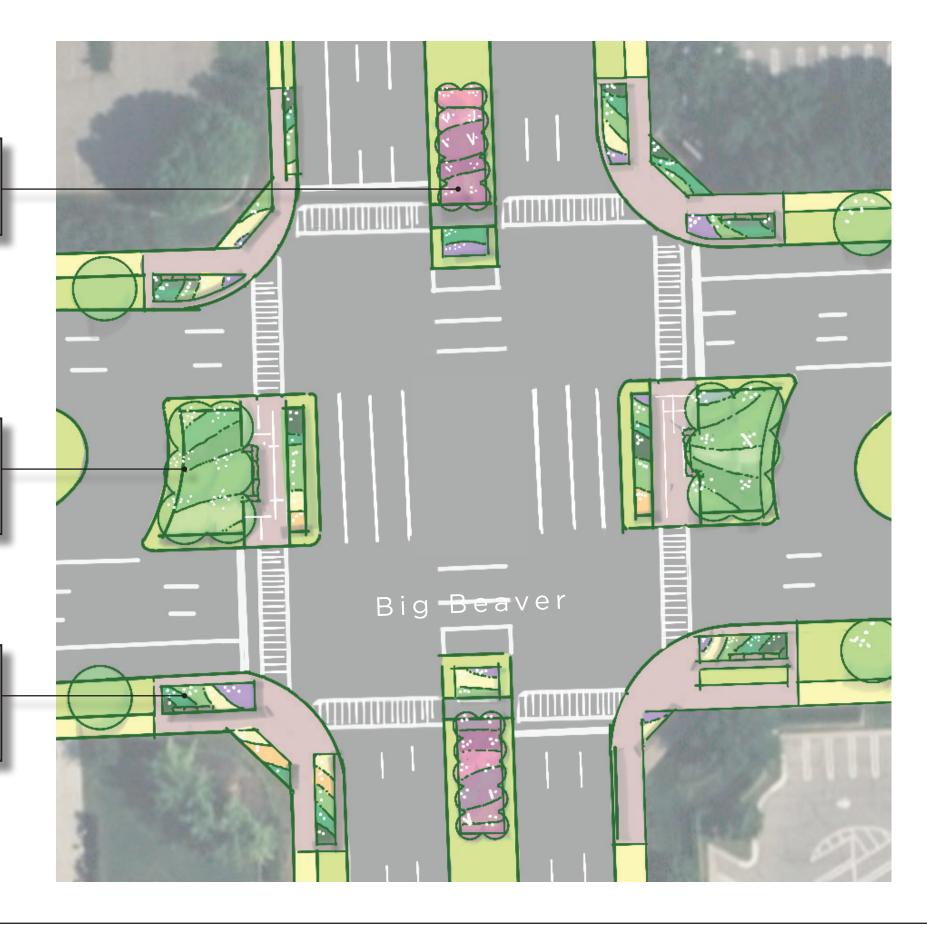
- Landscape beds with concrete headers
- Ornamental Multi-stem trees

Big Beaver Intersection Islands

- Landscape beds with concrete headers
- Shade trees
- Boulders with seating elements

Intersection Corners

- Removal of decorative pavers
- Decorative concrete pavement
- Planting beds with varied color and texture



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Birdseye Rendering



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Big Beaver Perspective



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Island Perspective



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Corner Perspective

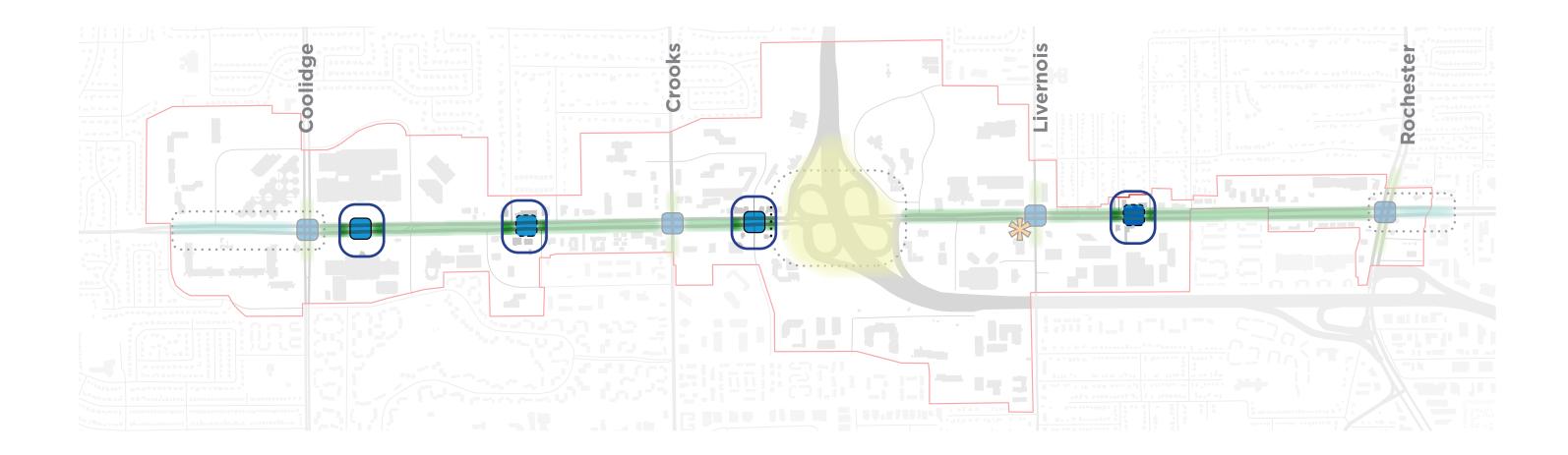


Troy Downtown Development Authority Big Beaver Landscape Improvements



Mid-Block Crossings

- Provide additional pedestrian connectivity
- Create landscape nodes of interest and focus



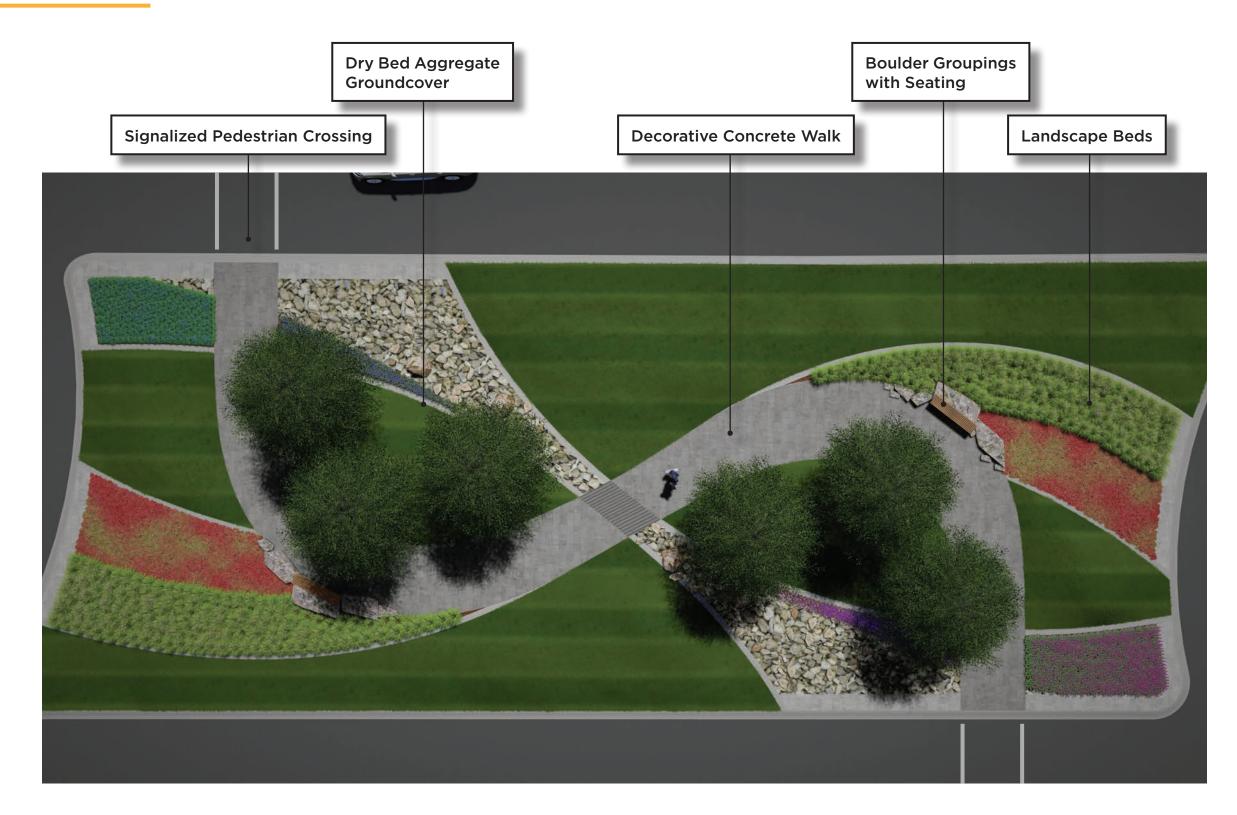
Troy Downtown Development Authority Big Beaver Landscape Improvements

edestrian connectivity des of interest and



Mid-Block Crossing

Plan







Mid-Block Crossing

Perspective

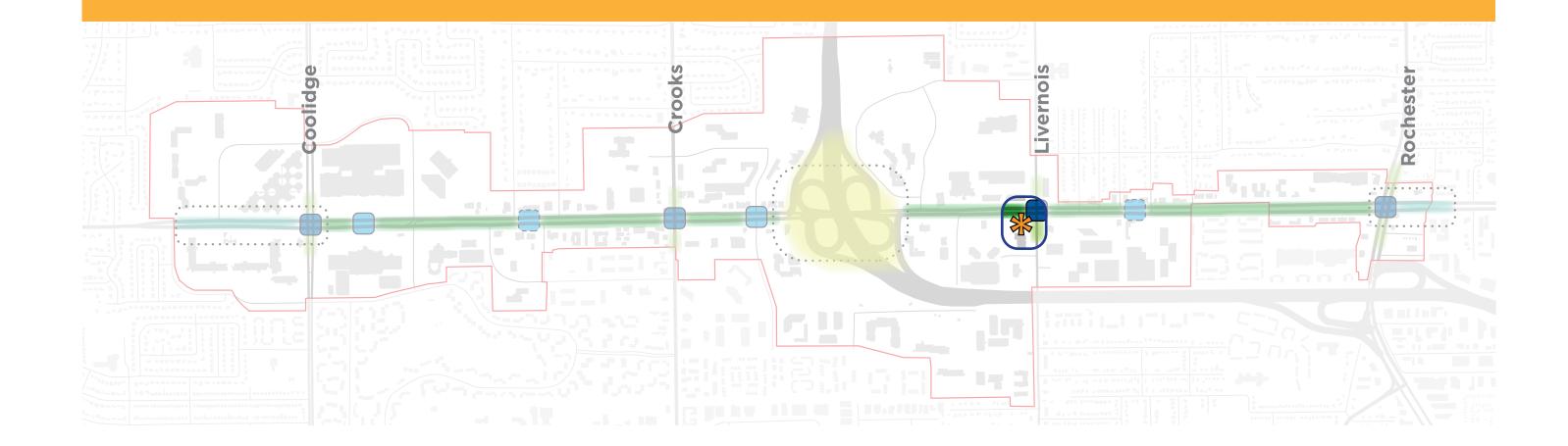


Troy Downtown Development Authority Big Beaver Landscape Improvements



Corner Park

Active key City-owned parcel

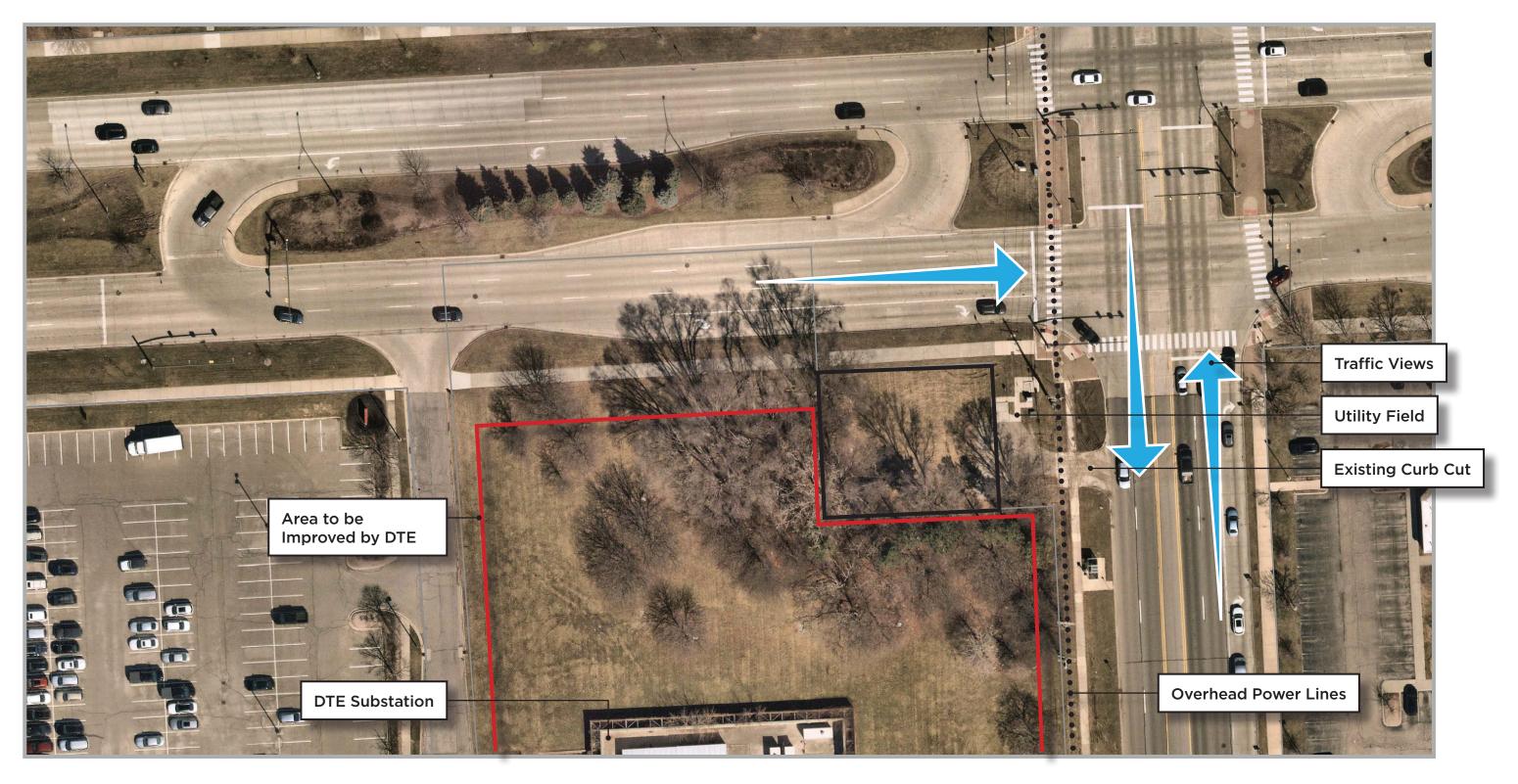


Troy Downtown Development Authority Big Beaver Landscape Improvements

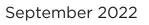


Corner Park

Existing Conditions

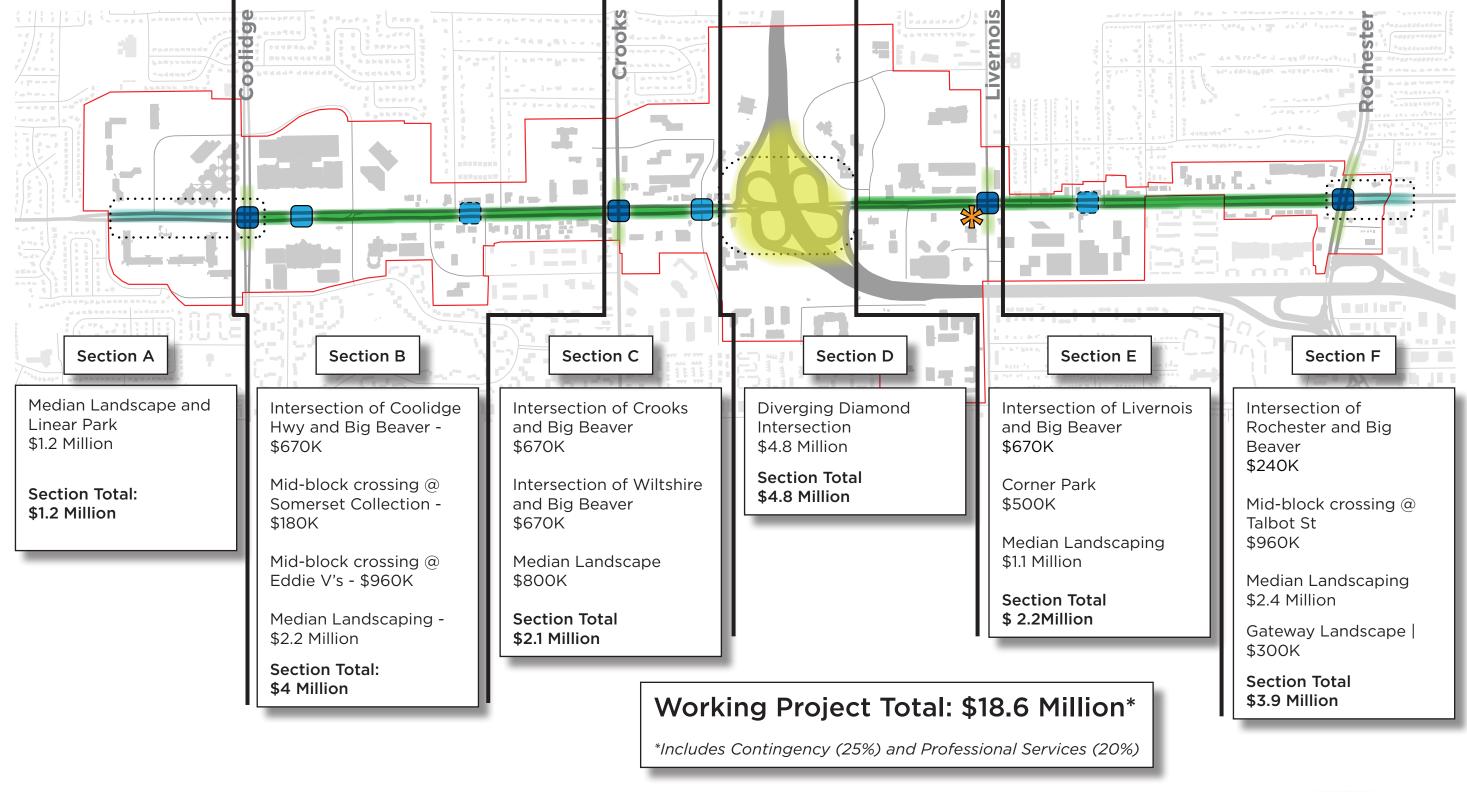


Troy Downtown Development Authority Big Beaver Landscape Improvements





Corridor Segments





Project Costs Summary

Section and Components	Component Total	Section Total				
Tree Removals		\$	360,000			
Section A		\$	1,200,000			
Median + Linear Park	\$ 1,200,000					
Section B		\$	4,000,000			
Coolidge Intersection	\$ 670,000					
Somerset Crossing	\$ 180,000					
Eddie V's crossing	\$ 960,000					
Median	\$ 2,200,000					
Section C		\$	2,100,000			
Crooks Intersection	\$ 670,000					
Wiltshire Intersection	\$ 670,000					
Median	\$ 800,000					
Section D		\$	4,800,000			
Diverging Diamond Intersection	\$ 4,800,000					
Section E		\$	2,200,000			
Livernois Intersection	\$ 670,000					
Corner Park	\$ 500,000					
Median	\$ 1,060,000					
Section F		\$	3,900,000			
Rochester Intersection	\$ 240,000					
Talbot Crossing	\$ 960,000					
Median	\$ 2,400,000					
Gateway	\$ 300,000					
	PROJECT TOTAL	\$	18,600,000			

Note: Costs include contingency (25%) and professional fees (20%)



Project Costs + Escalation

Troy TDDA Big Beaver Corridor Improvements Cost Escalation Tabulation

	2022		2023*	2024	2025	2026	2027	2028	2029	2030		2031	2032	2033	2034
Project Cost Project cost adjusted by 2% annually*	\$ 18,600,000	\$ 2	20,460,000	\$ 18,300,000	\$ 16,100,000	\$ 14,900,000	\$ 13,700,000	\$ 12,400,000	\$ 11,100,000	\$ 9,800,000	\$ 8	8,500,000	\$ 7,100,000	\$ 5,700,000	\$ 4,300,000
Annual Expenditure	-	\$	2,500,000	\$ 2,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000	\$:	1,500,000	\$ 1,500,000	\$ 1,500,000	\$ 1,500,000
Remaining Project Cost <i>Project cost less annual expenditure</i>	\$ 18,600,000	\$	17,960,000	\$ 15,800,000	\$ 14,600,000	\$ 13,400,000	\$ 12,200,000	\$ 10,900,000	\$ 9,600,000	\$ 8,300,000	\$ 3	7,000,000	\$ 5,600,000	\$ 4,200,000	\$ 2,800,000

*2023 Adjusted to 10% per forecasts

Note: Costs include contingency (25%) and professional fees (20%)

Does not account for potential grants and other funding sources



Phase 1 Implementation



Troy Downtown Development Authority Big Beaver Landscape Improvements



CHECK COMMUNITOR Read-only view, generated on 21 Sep 2022 Troy DDA - Big Beaver Engineering and Con...

	ACTIVITIES	START	WD	DUE	Oct 2022 Nov 10 17 24 31 07 14	2022	Dec 2022		an 2023 9 16 23	Feb 2		Mar 2023			2023 17 24 0		May 202 15 22
0	 Contract Authorization 	19/Oct	1d	19/Oct	🔶 Contract Aut												
1	Survey	24/Oct	35d	09/Dec			📄 Surve <mark>y</mark>										
2	Orawing Base Preparation	28/Nov	20d	23/Dec				<mark>Draw</mark> ing	g Base Pi	reparation							
	Phase 1:	09/Jan	215d	03/Nov							-	_	-	-	_	_	
4	Schematic Design	09/Jan	30d	17/Feb							Scher	matic Desigr	ı				
5	Agency Coordination	20/Feb	15d	10/Mar								Agenc	/ Coo	rdinat	tion		
6	O Design Development and Construction Documents	13/Mar	30d	21/Apr											De:	sign D	evelopr
7	Permitting	25/Apr	20d	22/May													
8	Procurement and Bid Period	29/May	30d	07/Jul													ſ
9	⊘ Construction Period	10/Jul	85d	03/Nov													
	Remaining Corridor:	25/Apr	171d	19/Dec												_	
11	Schematic Design	25/Apr	90d	28/Aug													
12	RCOC/MDOT Coordination	06/Sep	10d	19/Sep													
13	O Design Development and Construction Documents	27/Sep	60d	19/Dec													
14	Permitting		1d														



