

## NOTICE OF A MEETING SUSTAINABILITY ADVISORY COMMITTEE NBBJ

250 S. High St., #300, Columbus, OH 43215 September 18, 2024 2:30 - 4:00 p.m.

#### **AGENDA**

2:30 p.m.	Welcome and Introductions - Ben Kessler, Chair				
2:40 p.m.	Sustainability at NBBJ – Megha Sinha, Principal, NBBJ				
2:55 p.m.	MORPC Updates – William Murdock, Executive Director & Brandi Whetstone, Associate Director for Sustainability, MORPC				
3:10 p.m.	Regional Sustainability Agenda – Mike Shelton, Sub-committee Chair & Brandi Whetstone, MORPC				
3:30 p.m.	<ul> <li>Board and Working Group Reports</li> <li>Sustainable2050 – Laurie Jadwin, Vice Chair</li> <li>Sustaining Scioto Board – Glenn Marzluf</li> <li>Energy &amp; Air Quality Working Group – Matt Stephens-Rich</li> <li>Central Ohio Greenways Board – Mike Andrako</li> </ul>				

3:45 p.m. New Business and Member Updates – Ben Kessler, Chair

- End of year appointment process
- Next meeting December 18

4:00 p.m. Meeting Adjourned

Please notify Brandi Whetstone at 614-233-4174 or bwhetstone@morpc.org to confirm your attendance at this meeting or if you require special assistance.

The next Sustainability Advisory Committee meeting will be on December 18, 2024, at 2:30 p.m.

## Mid-Ohio Regional Planning Commission

## Sustainability Advisory Committee Meeting Notes

September 18, 2024, 2:30 p.m.

Members Present

Megha Sinha, NBBJ Matthew Starr, Mayor, City of Mount Vernon

Christing Hauk City of Crove City

Christine Houk, City of Grove City

Joe Lombardi, SWACO

Ken Wright, Mayor, City of Westerville Mike Shelton, Ohio State University

Mike Andrako, Franklin County Engineer's Office

Carolyn Thurman, CivicUplift Elizabeth Ellman, City of Bexley Alana Shockey, City of Columbus

Carol Kauffman, OEC

Laurie Jadwin, Mayor, City of Gahanna

**NBBJ Staff** 

Megha Sinha

**Tony Murry** 

Daniel Ayars

**MORPC Staff** 

Edwina Teye Brandi Whetstone William Murdock

**Brian Filiatraut** 

Christa Montoya Dave Dixon Kyle Probert

#### Meeting Called to Order at 2:33 pm.

#### Sustainability at NBBJ

Microsoft Electric Vehicle Facility

Reduces how many gas cars commute to their campus. NBBJ 2030 Goals, 1) carbon negative, 2) water positive, 3) zero waste, 4) protect and preserve the ecosystem. Sustainability first with a holistic approach. Local examples of sustainable building design can be found at several Columbus Metro Library locations, including Northern Lights and Dublin.

#### **MORPC Updates**

## **LinkUS**

LinkUS means more COTA services, more sidewalks and trails, and better connectivity to jobs and services. This initiative will support sustainable growth and housing along key growth corridors. This issue is on the November ballot and proposes a 1% sales tax in areas serviced by COTA.

#### **Policy**

Legislation at the Statehouse is unlikely to move until after the November election. \$140 million in One-Time Strategic Community Investment and state capital budget funds were awarded to Central Ohio communities in House Bill 2, which was signed into law at the end of June. There are 17 community projects slated to receive funding in the FY25 federal budget. We're continuing to advocate for those and monitor budget discussions through the Columbus Region Coalition.

September 27<sup>th</sup> was the final meeting of the Public Policy Agenda Working Group. The resulting document will be reviewed by the Regional Policy Roundtable in November and receive a full vote from the Commission in December.

#### Summit on Sustainability

The Summit will be held October 29 at Hilton Columbus Downtown, 401 North High Street, 8:00 a.m.- 4:30 p.m. Jeff Speck is the keynote speaker, author of Walkable City. Registration is open at <a href="https://www.morpc.org/summit">www.morpc.org/summit</a>.

#### World Rivers Clean Up Day

Volunteers are needed for Saturday, September 28<sup>th</sup>, at multiple locations along Central Ohio waterways from 10 a.m. to noon. Registration can be found on the Keep Columbus Beautiful website, or you can contact Jonathan Miller, <u>imiller@morpc.org</u>.

#### Charging & Fueling Infrastructure Grant

This grant is a big win for electric vehicle charging. MORPC was awarded \$15M from the USDOT-FHWA's Charging and Fueling Infrastructure (CFI) Round 2 grant program for MORE EVs. MORPC is working with 32 partners in Central Ohio to expand the EV charging network across 13 counties, with over 400 new EV charging ports and up to 50 curbside ports planned for the City of Columbus. This is the largest direct grant to MORPC.

#### <u>Greenways Planning Studio (GPS)</u>

In July, MORPC launched a new partnership with RAPID 5 to establish the Greenways Planning Studio, aimed at advancing shared goals for connectivity and greenspace preservation along the five river corridors in Franklin County. As part of this effort, MORPC will contribute regional collaboration, technical assistance, and GIS database hosting services to support RAPID 5. Additionally, there was a question raised about the "Stamp of Approval" point mentioned on the slide. This is not a concept we are currently pursuing, and the reference will be corrected. More updates will be shared as the project progresses. Please contact Melinda Vonstein at myonstein@morpc.org for more information.

#### Regional Sustainability Agenda (RSA)

A sub-committee of the SAC, chaired by SAC member Mike Shelton, kicked off in August 2024 to begin updating the RSA. The RSA will continue to include shared priorities across regional plans including the Metropolitan Transportation Plan, and the sub-committee will be considering alignment with other regional initiatives and frameworks including the Central Ohio Climate Action Plan. SAC member Megha Sinha also suggested consideration for the Sustainable Sites initiative.

The sub-committee includes broad representation from The Ohio State University, Columbus, Mount Vernon, Bexley, Dublin, SWACO, Somerset, and Licking Soil and Water Conservation District. Their next meeting is in October, and they expect to complete this work by April 2025 for Commission adoption.

The SAC members were asked to provide input on the vision statement and a newly proposed climate resilience goal. More information will be emailed with further instructions.

#### **Board & Working Group Reports**

Please refer to the attached written reports for more detail.

#### **New Business & Member Updates**

The committee members are interested in a tour of Del-Co's floating solar project and the MORPC team can assist with coordination. Mayor Kessler announced that Bexley is hosting its first mural festival on September 21. Mayor Kenneth Wright announced Westerville's upcoming Repair Cafe on October 5, where you can take broken items and volunteers will help you fix them. This helps to keep waste out of the landfill.

The Chair reminded members about the end of year committee appointment process for 2025. The next Sustainability Advisory Committee meeting will be held December 18 at Jeffrey Mansion, 165 N. Parkview Ave. Bexley, OH 43209 at 2:15 p.m. for the SAC holiday performance.

Adjourn 3:52 p.m.

## MORPC Sustainability Advisory Committee Board & Working Group Report September 18, 2024



Central Ohio Greenways Board (Chair: Mike Andrako, P.E.)
Next meeting: October 1, 2024

The COG Board met on July 17, 2024, to hear project updates and Working Group progress.

The COG Trail Towns Working Group met on September 9, 2024, to discuss the next steps for implementing the COG Trail Town Framework

and the COG Wayfinding Strategy. The group learned about a statewide trail mapping platform called Outerspatial that the Ohio Department of Natural Resources (ODNR) has recently begun utilizing. The group also provided guidance to the Graphic Design team developing the Trail Town brand. The Trail Town Brand will be revealed during the MORPC Summit on Sustainability in October. The group is continuing to seek funding for a Trail Town Ambassador Training Program, the Trail Towns in the Nation's Heartland Project, and Operational Funding.

The COG Mapping Natural Assets Steering Committee kicked-off their project on April 25. This project will summarize and analyze environmental data related to watershed quality. This data will be used to inform development decisions, conservation efforts, and outdoor recreational access. The project will be completed in Fall 2024.

The COG Wayfinding Strategy is complete and available on the COG Website. The report includes not only signage and map recommendations but all strategies to integrate Trail Towns, Public Art, and Placemaking concepts into the regional wayfinding effort. MORPC is offering technical assistance to member communities to begin implementing at a local level.

MORPC hosted a COG Forum: *Activating the Region's Blue and Greenways* on August 27<sup>th</sup> bringing together nearly 70 trail planners, advocates, elected officials, and government staff to learn about regional projects. Participants also participated in a Kayaking Experience hosted by Metro Parks on the Big Walnut Trail. The next Forum will take place in the Winter and focus on rural communities.

MORPC is excited to kick off the Greenways Planning Studio (GPS) in July to support Rapid 5 and their vision to create an interconnected greenway system along our waterways, connecting people to nature and one another. MORPC is supporting RAPID 5 with technical assistance, GIS support, and regional collaboration.



Energy & Air Quality Working Group (Chair: Matt Stephens-Rich)
Next meeting: November 20, 2024

The Energy and Air Quality Working Group (EAQWG) held its third meeting of the year on August 28. This meeting featured updates on air quality programming, energy programming, upcoming opportunities, as well as featuring Carbon Solutions and the development of their new USDOE-

funded co-benefits analysis tool called the Local Air Emissions Tracking Atlas (LOCAETA).

Carbon Solutions' goal for LOCAETA is to identify community impacts from industrial emissions and to help estimate the air quality health benefits from decarbonizing these facilities to specific communities. The EAQWG is still looking for candidates to serve as the Chair and Vice-Chair. If interested in leading the EAQWG, please email Brian Filiatraut, Energy and Sustainability Program Manager, at <a href="mailto:bfiliatraut@morpc.org">bfiliatraut@morpc.org</a>. The next and last EAQWG meeting of the year is November 20 from 1 – 2:30 PM.

## Electric Vehicle (EV) Infrastructure

MORPC posted an RFP looking for EV vendors to repair and or replace broken or nonoperational EV charging ports throughout the 15-county region as part of MORPC's \$2M award from the US DOT-FHWA's Electric Vehicle Charger Reliability and Accessibility Accelerator (EVC-RAA) Program. Here is the link to the <u>EV RAA RFP</u>. The deadline for bids is Friday, October 4 at 5 PM. If you have any questions or need more information, please reach out to Brian Filiatraut, Energy and Sustainability Program Manager, at bfiliatraut@morpc.org.

As part of the USDOT-FHWA's Charging and Fueling Infrastructure (CFI) Round 2 grant program, there are two distinct tranches of funds: \$521M for a unique resubmission opportunity for unawarded Round 1 grant applications and \$800M for newly submitted applications per the new Round 2 NOFO. It is with great pleasure to announce that MORPC's grant proposal for Central Ohio—MORE EVS—has been awarded the full \$15M requested from the federal government. Winning this grant will unlock an additional \$6.9M in regional investment to install 62 new charging sites—both L2 and DCFC—across 13 counties, further extending the EV charging network in Central Ohio.

Furthermore, MORPC just submitted a second CFI Round 2 application, focusing on building out both passenger and medium- and heavy-duty EV charging hubs along the Alternative Fuel Corridors (AFCs). MORPC was the lead applicant working collaboratively with Prologis Mobility, several local government members, the Electrification Coalition, Smart Columbus, the National Center for Urban Solutions, and others to increase EV charging network and the workforce development ecosystem.

#### US EPA Climate Pollution Reduction Grant (CPRG) Program

Work on the CPRG Central Ohio Climate Action Plan (COCAP) continues. The COCAP aims to create a unified approach to regional planning and pollution mitigation actions. We highly encourage all residents who reside within the 10-county Metropolitan Statistical Area (MSA)—Delaware, Fairfield, Franklin, Hocking, Licking, Madison, Morrow, Perry, Pickaway, and Union counties—to complete the COCAP Community & Climate Priorities Survey. It is open for responses through September 22. For more information on the COCAP, please visit the COCAP website.

#### Air Quality:

Ozone monitoring season began on March 1 and MORPC has issued 3 Air Quality Alerts in 2024, on June 16, 20, and August 26, with ground-level ozone being the primary pollutant of concern. Additionally, there was an isolated ground-level ozone exceedance in Delaware County on September 5, which was not forecasted but reported by our forecasters on September 6.

The US EPA funded air monitoring project, co-led by Franklin County Public Health, continues to make progress on outreach and sensor placement. We welcomed the Ramboll Americas Engineering Solutions, Inc. team as our modelers for the project. Their Shair Platform will utilize

our PurpleAir sensors to better track air pollution in Franklin County. The team is ready to deploy 59 PurpleAir sensors into the community, with placement guidance from Ramboll. Siting and deployment of sensors is estimated to be completed by October 31. Additionally, the team met with and presented to OhioHealth's sustainability team (July 15), the Driving Park Civic Association (July 17), the Licking County chapter of CHIPS Communities United (July 19), Dr. Darryl Hood (OSU) Air Quality research team (August 8), Whitehall Community Schools (September 6), and the Franklin County Auditor's Office (September 10). Contact Mauro (JR) Diaz-Hernandez @morpc.org.



## Sustainable2050

Next meeting: November 14, 2024

The Q3 Sustainable2050 meeting was held on August 15 from 9:30-11:30 a.m. at Del-Co Water. The meeting featured updates from City of Westerville, Rural Action, and Del-Co Water. Following the meeting, the group took a tour of Del-Co's floating solar installation, the first of its kind in

Ohio. MORPC is also featuring Sustainable2050 member accomplishments through our Sustainable September social media campaign, including spotlights from SWACO, Westerville, Upper Arlington, COTA, and others. Sustainable2050 membership is open to all MORPC members, and current Sustainable2050 members interested in earning their tier status certification should contact Brandi Whetstone at bwhetstone@morpc.org. A certification workbook will be provided, and a kick-off meeting is encouraged to review the process. Once a completed workbook has been submitted and reviewed by the MORPC team, the next step is to present the proposed certification to the SAC for approval at their quarterly meetings.



## Sustaining Scioto Board (Chair: Glenn Marzluf)

Next Meeting: October 23, 2024

The Board met on August 28 with a member spotlight on the City of Columbus Department of Public Utilities programming, including the recently updated Stormwater Drainage Manual and the City's involvement with a water affordability taskforce. Staff from Ohio EPA Division of Surface Water provided updates, including the 2024 field updates of biological and water quality assessments in targeted basins in Central Ohio, NW and NE Ohio. The full

report on the Quality Assurance Project Plan (QAPP) for the Biological and Water Quality Study of the Upper Scioto River and Olentangy River Watersheds can be accessed <a href="here">here</a>. Additional updates included expanded protections of the Big Darby watershed as part of the <a href="State's Water Quality Management Plan">State's Water Quality Management Plan</a> and the new <a href="H2O Rivers Program">H2O Rivers Program</a> which is focused on improving and maintaining the health of Ohio's Large Rivers.

## Agricultural & Rural Communities Outreach Team

The Outreach Team met on July 18. Chair Brian Brandt discussed a potential grant award from the Natural Resources Conservation Service to American Farmland Trust on the STEP tool used to evaluate environmental practices on agricultural lands that impact water quality. The team brainstormed potential matching funds sources.

The team is also planning two outreach events focused on highlighting the work of the Sustaining Scioto Board along with ongoing regional water priorities including the 15-County

Regional Water Study. The working team will focus on informing farmers and elected officials within the MORPC service area. Members continue to identify programming areas based on the recommendations of the recently completed Communication Plan. The next meeting is on September 19.

MORPC and Ohio EPA hosted the second Regional Water Study update on August 28 with over 200 in attendance. Speakers from Ohio EPA, Hazen and Sawyer consultant team and MORPC provided the overall status of the project including topics such as data collection and mapping, regionalization, and cost analysis. The webinar recording and slide deck information can be accessed <a href="here">here</a>. Scroll to the bottom of the page to the Regional Water Study section.

If you would like to receive invitations for future webinars, please contact Edwina Teye at eteye@morpc.org.



SUSTAINABILITY ADVISORY COMMITTEE MEETING





- 2:30 Welcome & Introductions Ben Kessler, Chair
- 2:40 Sustainability at NBBJ Megha Sinha, Principal, NBBJ
- 2:55 MORPC Updates William Murdock, Kyle Probert, & Brandi Whetstone, MORPC
  - LinkUS

- World Rivers Clean Up Day

- Policy

- Charging & Fueling Infrastructure Grant

- Summit on Sustainability

- Greenways Planning Studio
- 3:10 Regional Sustainability Agenda Mike Shelton, Sub-committee Chair & Brandi Whetstone
- 3:30 Board & Working Group Reports
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# **POLICY UPDATE**

**Kyle Probert** 

**Public Policy Coordinator, MORPC** 



























**ACTION GROUP** 

# **BIG WIN FOR ELECTRIC VEHICLE CHARGING**



- MORPC awarded \$15M from the USDOT-FHWA's Charging and Fueling Infrastructure (CFI) Round 2 grant program for MORE EVs.
- Working with 32 partners in Central Ohio to expand the EV charging network across 13 counties:
  - Over 400 EV charging ports
  - Up to 50 curbside ports planned for City of Columbus



# GREENWAYS PLANNING STUDIO Services







## **Regional Collaboration**



## **Technical Assistance**

Desirability Index



**GIS Database Host** 



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REGIONAL SUSTAINABILITY AGENDA





# **REGIONAL SUSTAINABILITY AGENDA (RSA)**



- The guiding document for MORPC's sustainability-focused programming and committees, and framework for members and regional partners to align around common goals.
- Contains goals, measurable objectives, and strategies that make Central Ohio a better place for its residents.
- Updated every 4 years. The time horizon for the next agenda is 2025-2028.



# **VISION AND GUIDING PRINCIPLES**



- The Regional Sustainability Agenda helps to position Central Ohio and its local communities as national leaders in sustainability through creative partnerships, enabling innovative solutions and flexible processes. It aligns MORPC's services to bring value, best practices, and collaboration to local government members.
- Each goal and objective will be data-driven and guided by underlying principles related to resiliency, equity and diversity, public health and well-being, and collaboration — ensuring sustainable impacts reach all communities within our region and providing prosperity for all.



# **SUSTAINABLE2050**





Central Ohio Communities Working Toward a Better Future 38 MORPC members making a collective impact on quality of life in central Ohio

## **Benefits**

- Member recognition
- Peer exchange
- Technical assistance

## **SUB-COMMITTEE MEMBERS**



- Mike Shelton, OSU Sustainability Institute (Chair)
- Erin Beck, City of Columbus
- Elizabeth Ellman, City of Bexley
- Emily Goliver, City of Dublin
- Mayor Tom Johnson, Village of Somerset
- Kristy Hawthorne, Licking Soil and Water Conservation District
- Scott Perry, SWACO
- Quentin Platt, City of Mount Vernon







# **Subcommittee Purpose**

Develop a comprehensive 2025-2028 Regional Sustainability Agenda for the 15-County region.

## **Additional Activities and Inputs-**

- SAC and MORPC leadership will provide input and guidance.
- MORPC data and sustainability teams will gather and analyze data to develop a baseline for each objective and create informed targets for the 4-year timeframe, bringing forward questions/ideas for input as needed.

# **CONSIDERATIONS**



Consider existing goals, plans, or surveys such as MTP, Regional Trail Vision, Central Ohio Climate Action Plan, Leaders Listen Surveys.

Considerations for shaping the RSA

Inclusive of broader 15-county region to promote participation from local governments of all sizes and capabilities.

Consider other frameworks that set the standard for sustainability.

# **METROPOLITAN TRANSPORTATION PLAN**





Create sustainable neighborhoods to improve all residents' quality of life.



Increase regional collaboration and employ innovative transportation solutions to maximize the return on public expenditures.



Position central Ohio to attract and retain economic opportunity to prosper as a region and compete globally.



Provide transportation and mobility to benefit the health, safety, and welfare of all people.



Protect natural resources and mitigate infrastructure vulnerabilities to maintain a healthy ecosystem and community.



Reduce per capita energy consumption and promote alternative fuel resources to increase affordability and resilience of regional energy supplies.

## **APPROACH - GOALS AND OBJECTIVES**



Aspirations that unify the objectives



Goal 1: Improve air quality and reduce climate change impacts to protect public health and the environment.



## **Objectives**

- 1.1 Reduce per capita vehicle miles traveled.
- 1.2 Increase alternative fuel vehicles and infrastructure.
- 1.3 Reduce per capita energy consumption across all sectors.
- 1.4 Increase local renewable energy generating capacity.
- 1.5 Reduce regional greenhouse gas emissions.
- 1.6 Increase the number of days with good air quality.

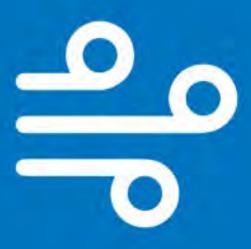
Specific
Measurable
Attainable
Relevant
Time Bound

# **APPROACH - STRATEGIES**



## **GOAL ONE**

Improve air quality and reduce climate change impacts to protect public health and the environment.



## 1.1. Reduce per capita vehicle miles traveled.

- Create development practices and regulations that reduce the need for vehicle travel. Examples
  include encouraging mixed-use development, increased density, and shared or reduced parking
  among neighboring businesses.
- Adopt a Complete Streets policy.
- Prioritize proximitiy to transit stops, multi-use paths, and sidewalks in site-selection decisions.
   Examples include siting within a quarter-mile of a transit stop.
- Promote and participate in Gohio Commute or other programs to encourage mode-shift among commuters.
- Provide workplace incentives to encourage the use of sustainable modes of transportation including transit, biking, walking, and ridesharing.
- Create a telecommuting policy that supports a diverse workplace and employee needs.

# **IDENTIFYING CROSS-CUTTING STRATEGIES**



Objective		Goal 1: Improve air quality and reduce climate change impacts to protect public health and the environment	Goal 2: Protect and preserve natural resources to support a healthy and resilient region.	Goal 3: Improve the quality of life for all residents by creating sustainable and equitable communities.	Goal 4: Promote robust, inclusive, and sustainable growth and development.	Goal 5: Create communities that are resilient to environmental impacts.
Improve water quality in Central Ohio watersheds	a. Utilize green infrastructure best practices to reduce flooding and stormwater pollution. Examples include rain gardens, bioswales, permeable pavement, and vegetated buffers.	X	х	X	Х	Х
	b. Preserve stream corridors, flood plains, wetlands, and native buffers along waterways.	x	х			х
	c. Utilize organic alternatives for pest and weed control.	X	х			
	d. Plant native trees, shrubs, and perennials.	X	Х	Х		Х
	e. Host/participate in activities such as river clean-ups, invasive plant removal, storm drain labeling, or other community activities that improve local waterways.		x			х

## RSA PROPOSED TIMELINE AND ACTIVITIES



- August: Sub-committee meeting 1 Goals & objectives
- **September**: Present to SAC (Sept. 18)
- October: Sub-committee meeting 2 Review feedback from meeting 1, and begin review of strategies for Goals 1 & 2
- **November**: Sub-committee meeting 3 Review previous feedback and begin review of strategies for Goals 3-4
- **December**: Present to SAC for input (Dec. 18)
- January 2025: Public comments/survey
- February 2025: Subcommittee meeting 4 review public comments and make revisions
- March 2025: SAC review and make recommendation to Commission
- April 2025: MORPC Commission Adoption

# **NEXT STEPS**



- We will email follow up for SAC input:
  - Vision & principles
  - Adding Climate Resilience goal or objective
  - Process for identifying high impact strategies





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# **MEETINGS**



# **Sustainability Advisory Committee**

- December 18 meeting at Jeffrey Mansion 165 N. Parkview Ave., Bexley, OH 43209
- Start time 2:15 p.m. for SAC holiday performance



## **Ben Kessler Mayor, City of Bexley**

Chair Sustainability Advisory Committee bkessler@bexley.org

## **Laurie Jadwin Mayor, City of Gahanna**

Vice-Chair Sustainability Advisory Committee laurie.jadwin@gahanna.gov

#### **Brandi Whetstone, LEED Green Associate**

Interim Sr. Director of Planning
Mid-Ohio Regional Planning Commission
bwhetstone@morpc.org







#### Why reimagine cities?

78%

of World's Energy Consumption 60%

of Greenhouse Gas Emissions Production 2%

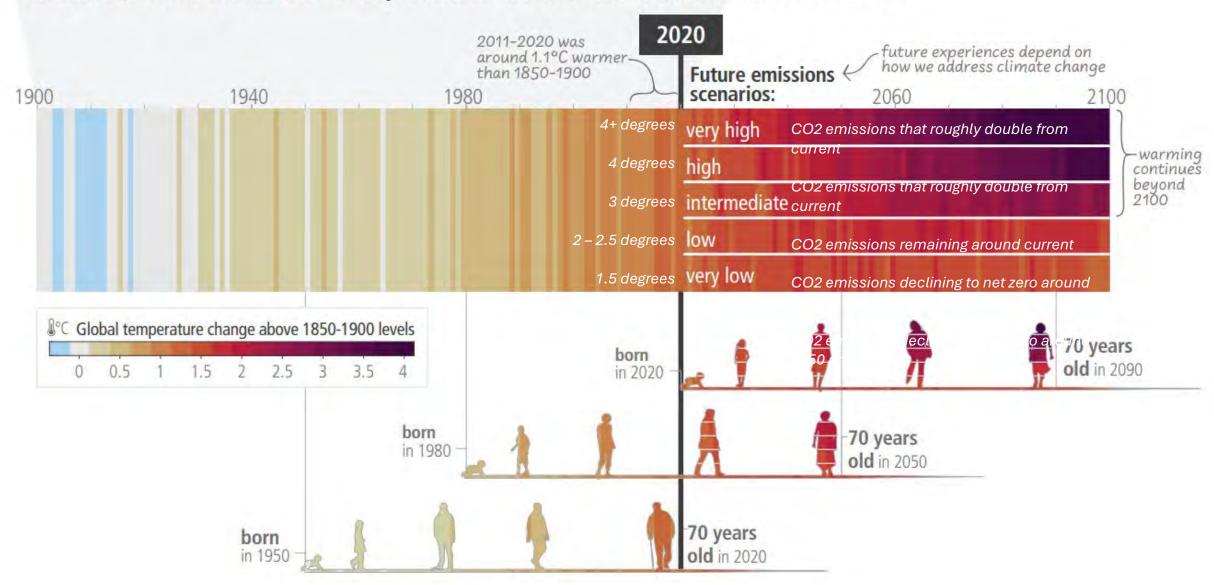
of Earth's Surface 4.4 billion

People live in Cities today

2.5 billion

additional People in Cities by 2050

## c) The extent to which current and future generations will experience a hotter and different world depends on choices now and in the near term



## 250 South High Street

Setting a new standard for what dynamic, high-density development can be, 250 High is the first mixed-use project in downtown Columbus.

- LEED Silver Project
- Well Certified





Bringing a
Highly Sustainable
Project Home

Microsoft Electric Vehicle Facility



#### At a Glance:

Microsoft Electric Vehicle Facility

Who - Microsoft Commute

**What** - Logistics & Maintenance Building, Bus Charging Gantry

Where - Redmond, WA

**Why** - Facilitate the transport thousands of Microsoft employees around the greater Seattle region



## Microsoft's 2030 Goals



#### **Carbon Negative**

By 2030, we'll be carbon negative, and by 2050, we'll remove out historical emissions since our founding in 1975



#### **Water Positive**

By 2030, we'll be water positive across our direct operations



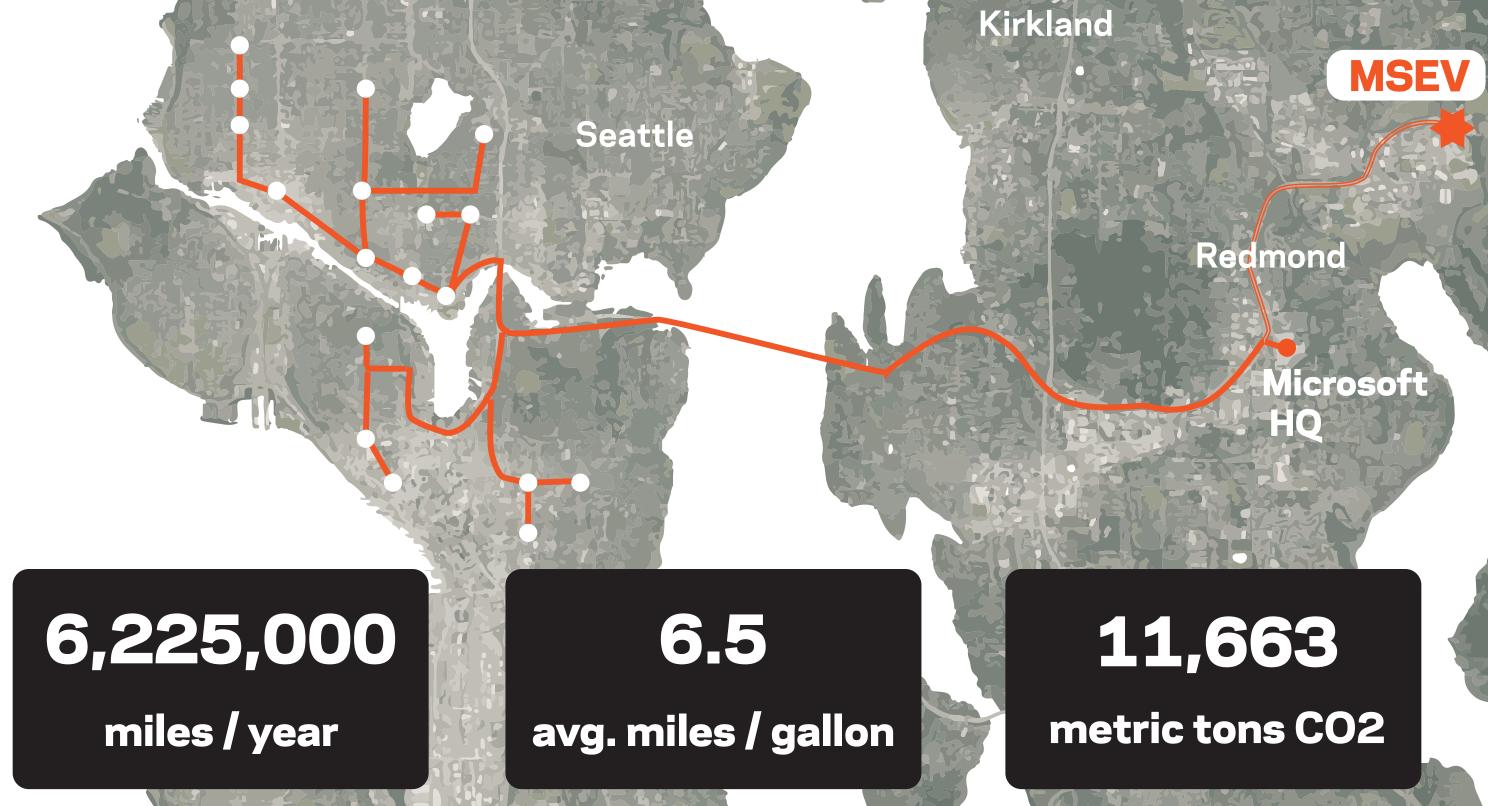
#### **Zero Waste**

By 2030, we'll be zero waste across our direct waste footprint



#### **Protect and Preserve Ecosystems**

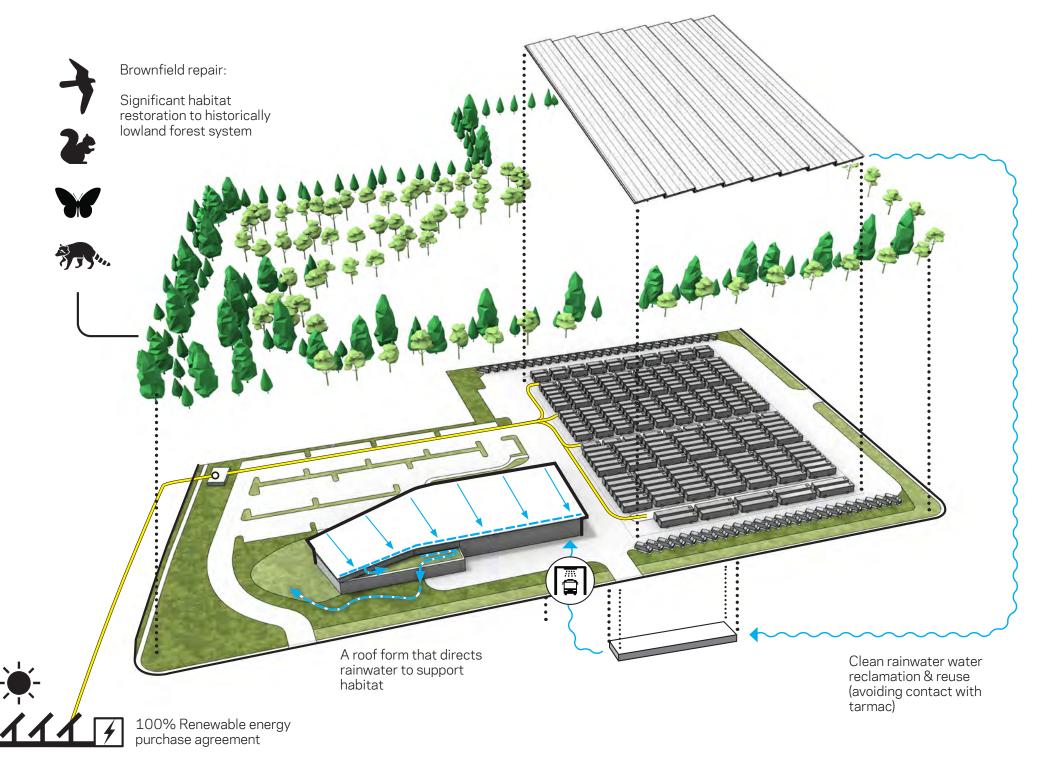
We'll protect more land than we use by 2025 and build a Planetary Computer



## **Sustainability First**

At the outset, this project was conceived of as sustainable, aligning with Microsoft's goals.

This allowed the design team to center sustainability in every aspect of the design process.



## Carbon Negative

#### Microsoft Goal:

by 2030, we'll be carbon negative, and by 2050 we'll remove our historical emissions since our founding in 1975

#### **Driving Design Question:**

How can we use smart design to create opportunities for groundbreaking embodied and operational carbon savings?

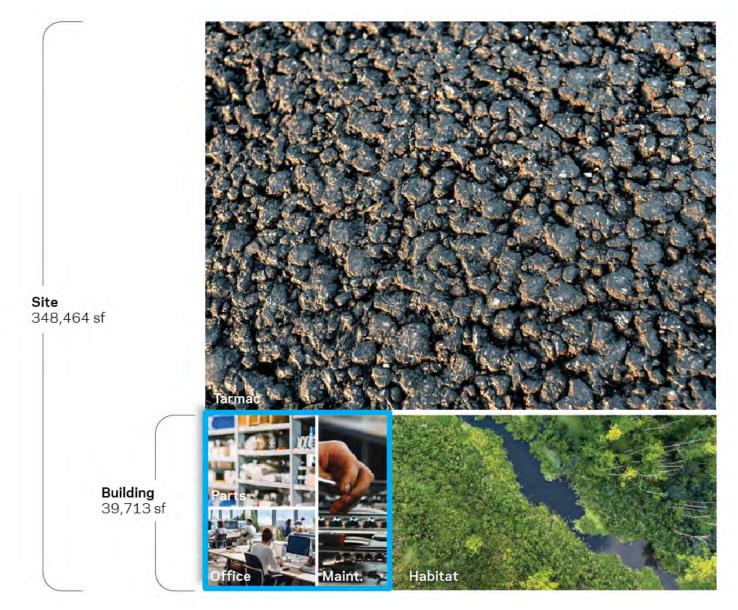
#### Measurement of Success:

ILFI Net Zero Energy, ILFI Net Zero Carbon, 18 LEED Energy Performance Credits

### Embodied Carbon Realities

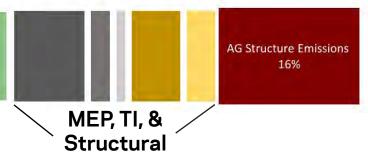
The bus program required the site to be over 60% paved, a major constraining element on our carbon design

**Site Program** 



Site Embodied Carbon

SITE HARDSCAPE



# A Menu of Reduced Carbon Concrete Opportunities



> Captures and injects CO2 into pre-cast elements such as concrete masonry units



> Uses recycled aggregate and a biobased binder to produce a low carbon alternative to traditional asphalt



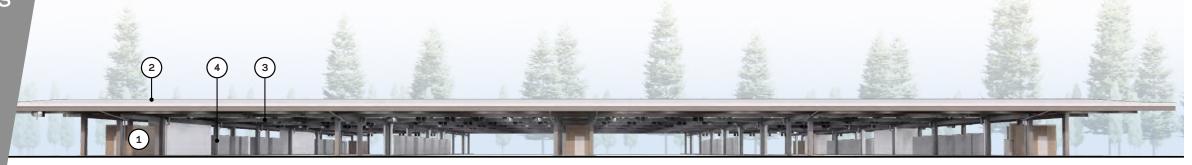
> Hyper-local concrete procurement allows us to use recycled aggregate from our own site, dramatically lowering emissions from transportation

# Gantry Form Drives Performance

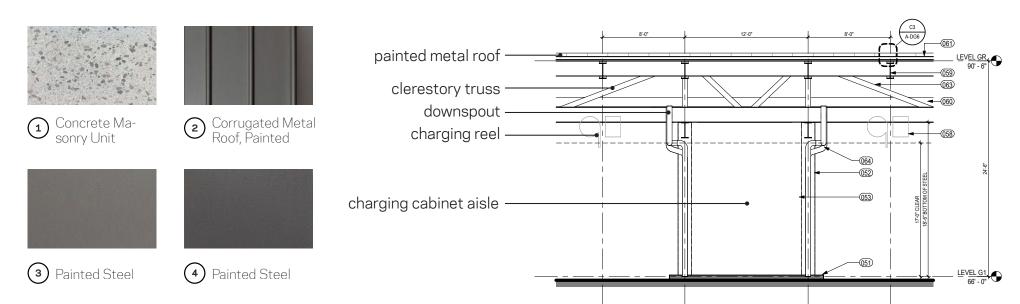
Sawtooth design serves many purposes, and was optimized for angle and orientation to host PV, far before solar panels were selected for use on the project.



West Elevation



North Elevation





## **Water Positive**

#### Microsoft Goal:

By 2030 we'll be water positive across our direct operations

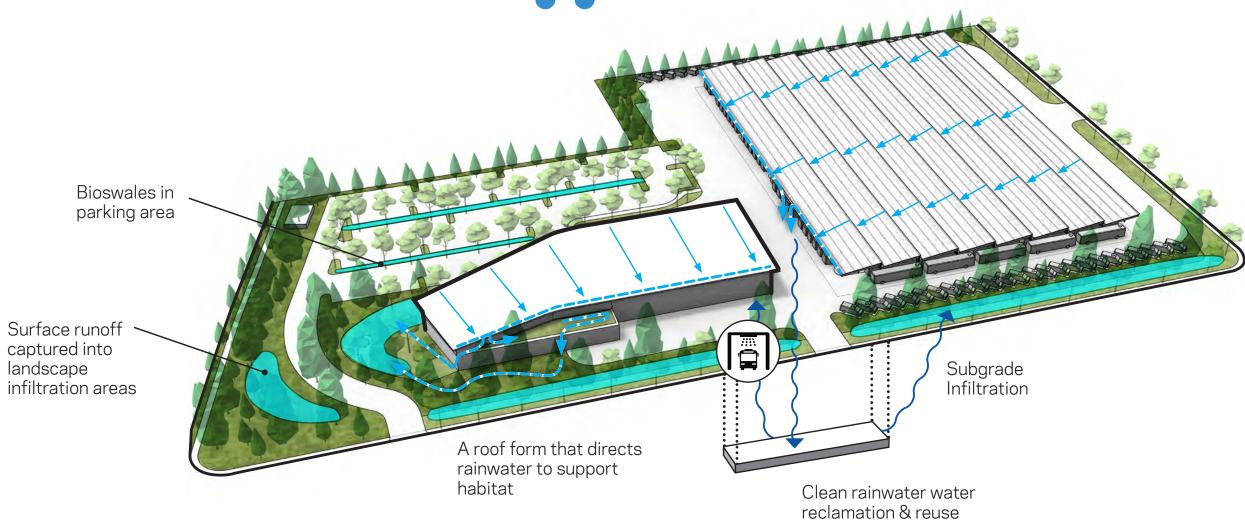
#### **Driving Design Question:**

How can landscape and architecture be leveraged as a water system? How do you make water savings tangible?

#### Measurement of Success: LEED Whole Site Water Balance

> The solution we arrived on was capturing as much rainwater as possible off of roof surfaces before it hits the ground



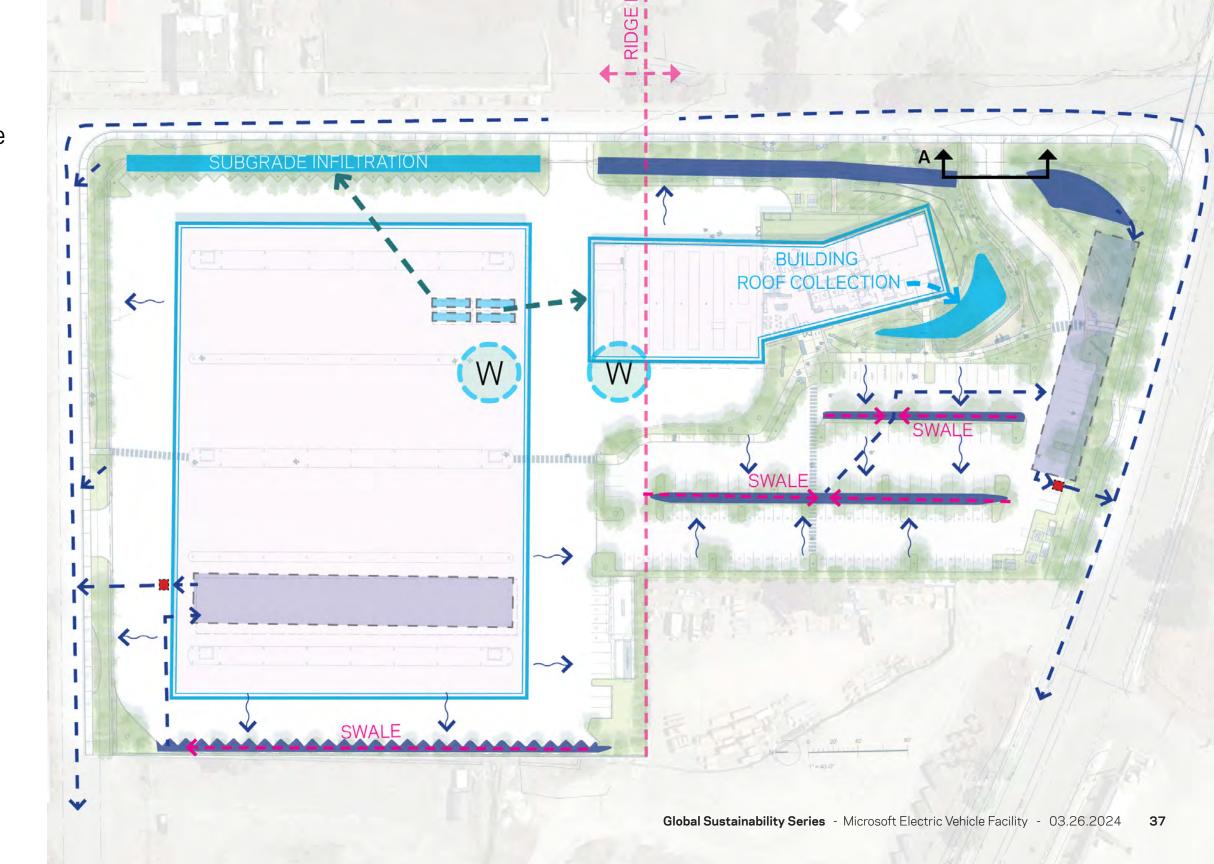


(avoiding contact with

tarmac)

> Water off of the large Gantry roof serves the building's greywater needs, landscape irrigation, and the bus wash.

Building roof water is daylit in a seasonal infiltration pond.



## **Zero Waste**

#### Microsoft Goal:

By 2030 we'll be zero waste across our direct waste footprint

#### **Driving Design Question:**

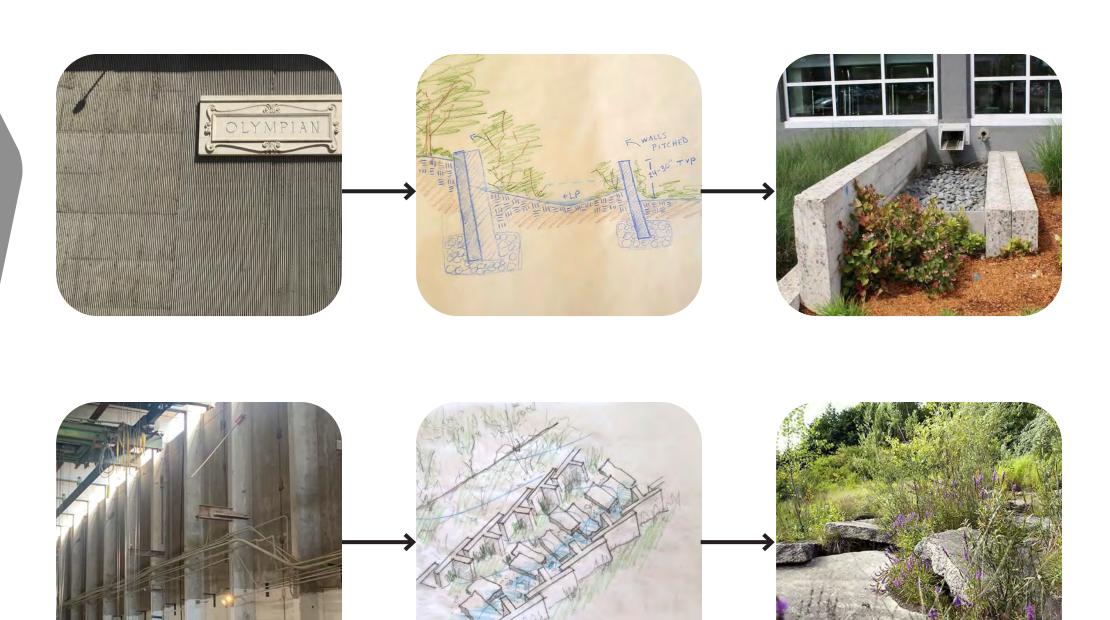
how can we reuse what we have? How can we be the most efficient with the resources we use?

#### Measurement of Success:

LEED BPDO Material Ingredients Credit

## Site Salvage & Reuse

Through careful demolition and reuse of existing infrastructure on site, we honor the industrial history of the site and make use of existing resources



## Protect & Preserve Ecosystems

#### Microsoft Goal:

We'll protect more land than we use by 2050 and build a Planetary Computer

#### **Driving Design Question:**

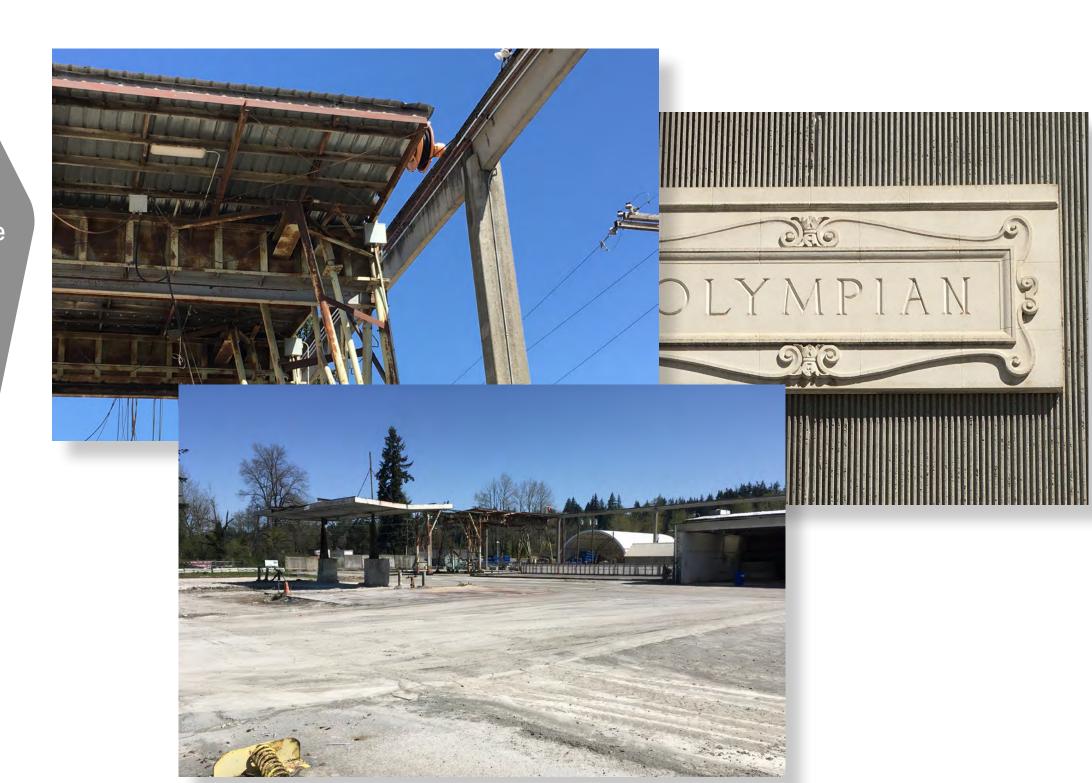
How can a post-industrial site contribute to the human and non-human ecosystem?

#### Measurement of Success:

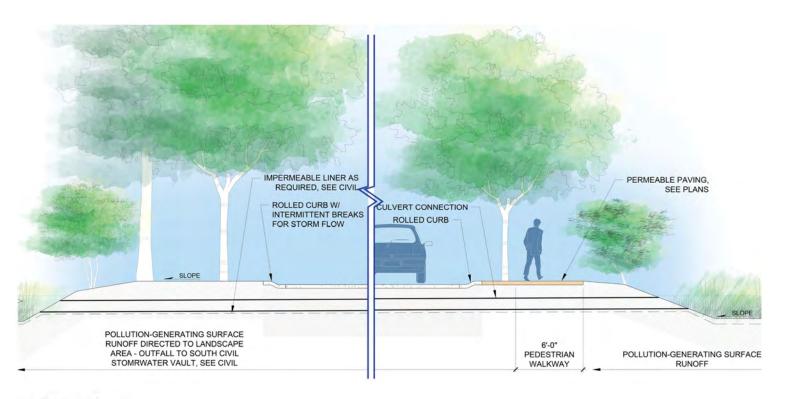
LEED Open Space, Protect & Restore Habitat credits, Salmon Safe cerrtification

## Industrial Heritage

Previously a pre-cast concrete plant, the site began as flat plane, devoid of natural life







#### Legend:

- A PROPERTY LINE
- B) 10' SIDEWALK & UTIL EASEMENT LINE
- C NEW 6" CURB
- D ADA CURB RAMP
- E PARKING LOT DRIVEWAY

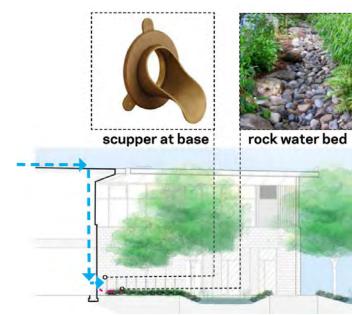
> Landscape is leveraged as both a sustainable feature and an amenity for bus drivers, acting as an escape from the surrounding pavement

# Expression of Water

Through the optimization of rainwater capture around the site, we were able to use the excess as an amenity, exposing it in a seasonal rain garden.

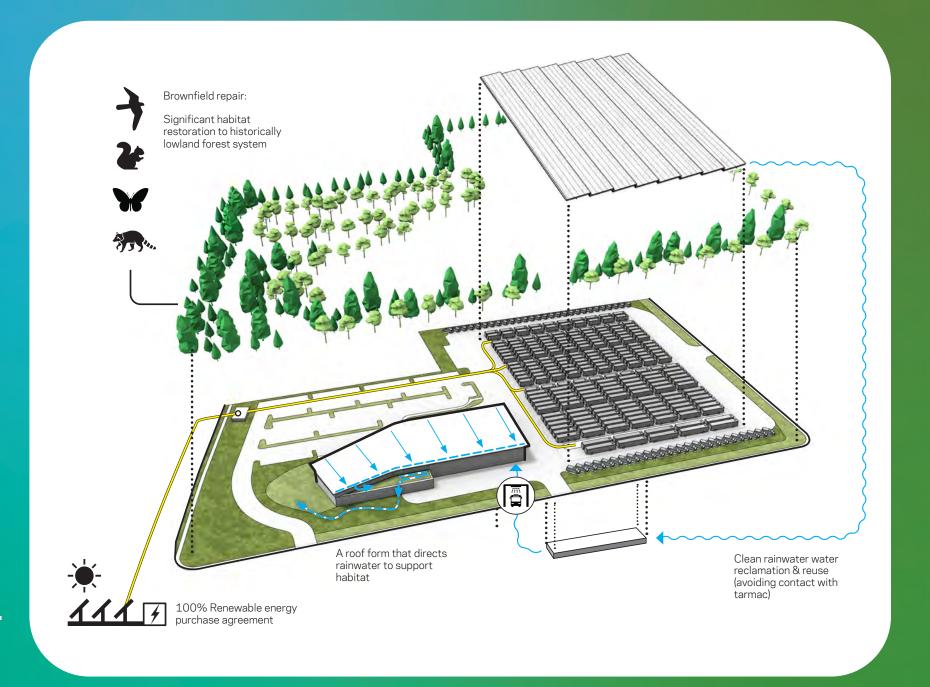


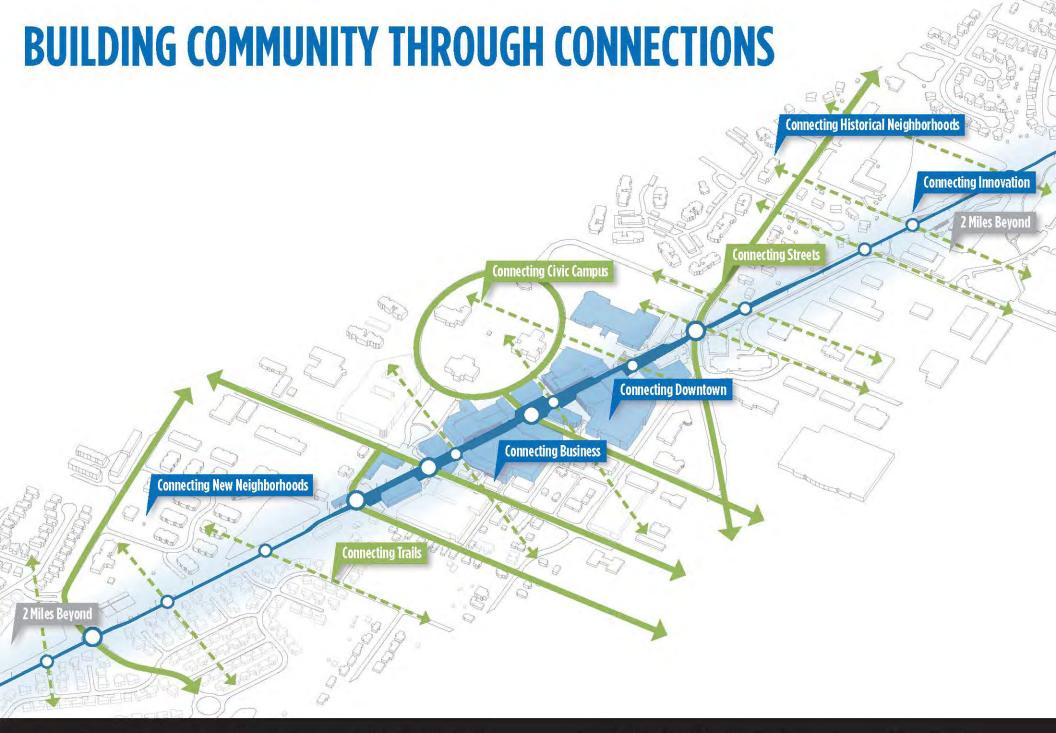




## Conclusions

- Start with smart goals before you start your project.
- Carbon Negative is achievable by smart design approach
- Water Positive Integrate design approach to water systems both inside and outside the project
- Zero Waste How can we reuse what we have?
- Protect and Preserve Ecosystems -Set goals to protect land we use by 2050



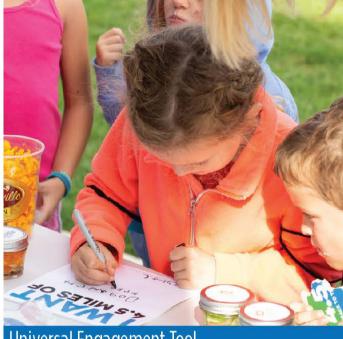


207.03

The proposed Nickel Plate trail will serve as a new type of "Main Street" for the city. The smart re-use of the rail corridor space uniquely connects all that is Fishers and serves as a space for gathering and commuting.







Universal Engagement Tool







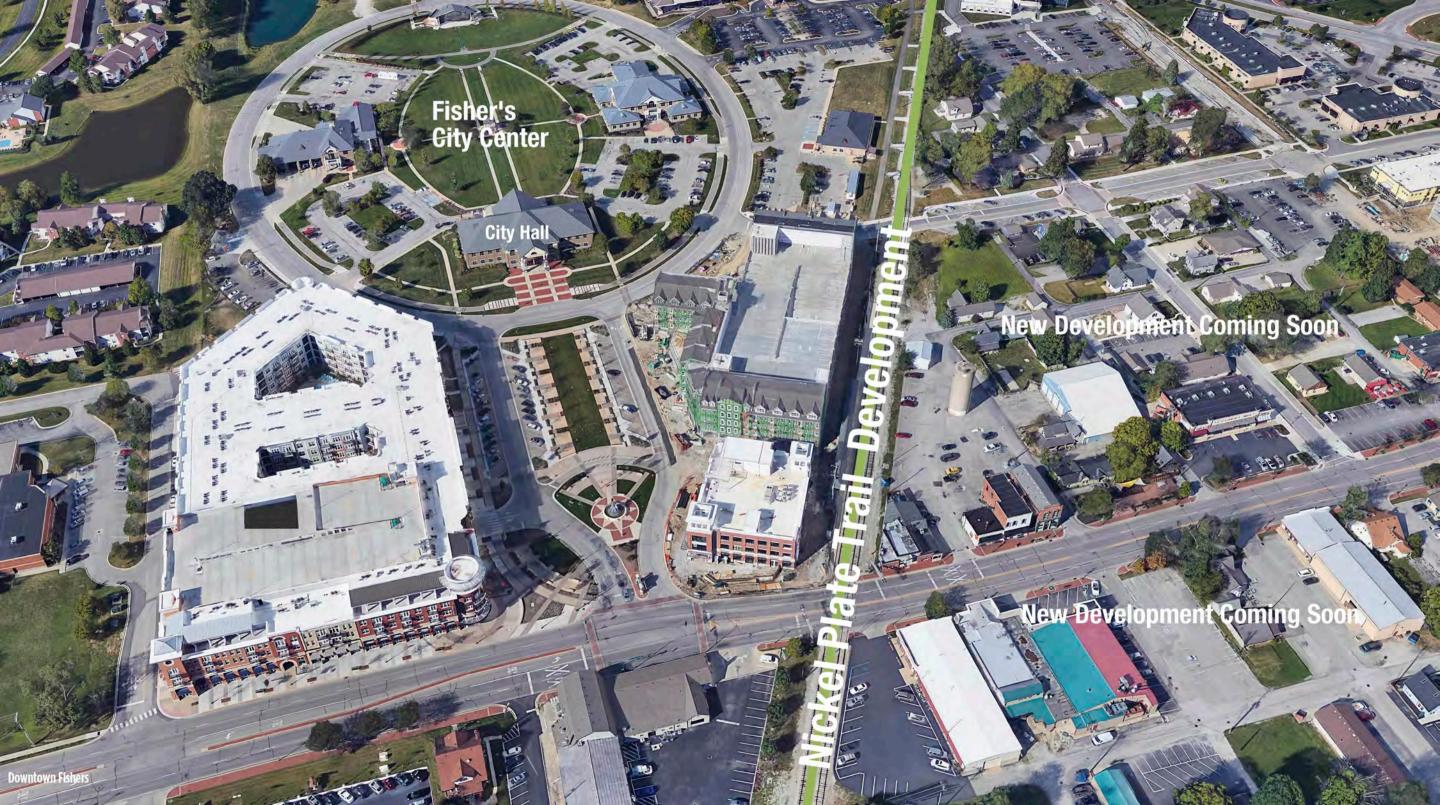


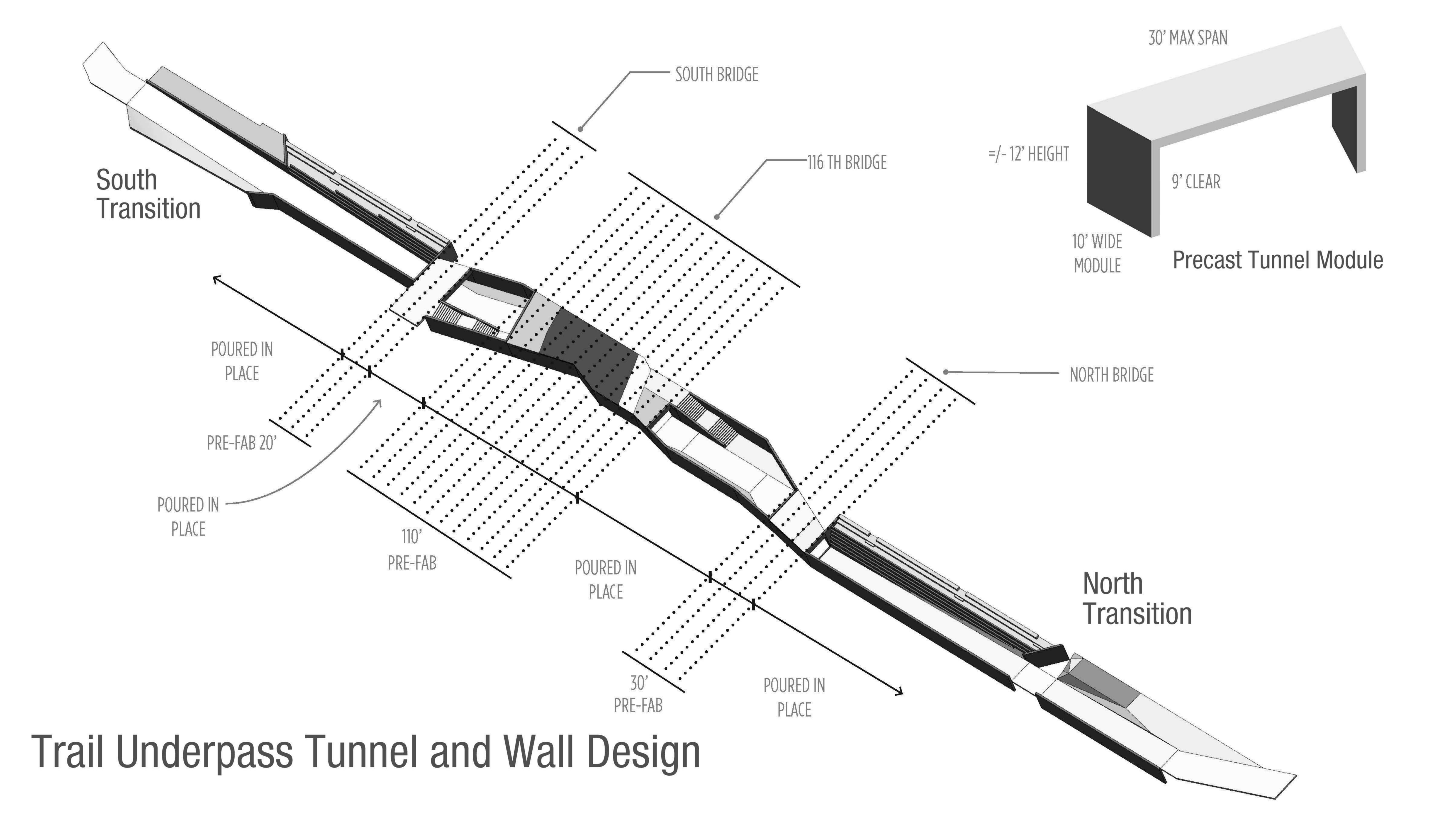
Community Display Boards

Trail Mix

207.05

The project leadership team branded the community engagement campaign in a way that would be fun, lasting and impactful throughout the six-month design and planning process. This created an ongoing positive energy and helped maintain visibility for the project.









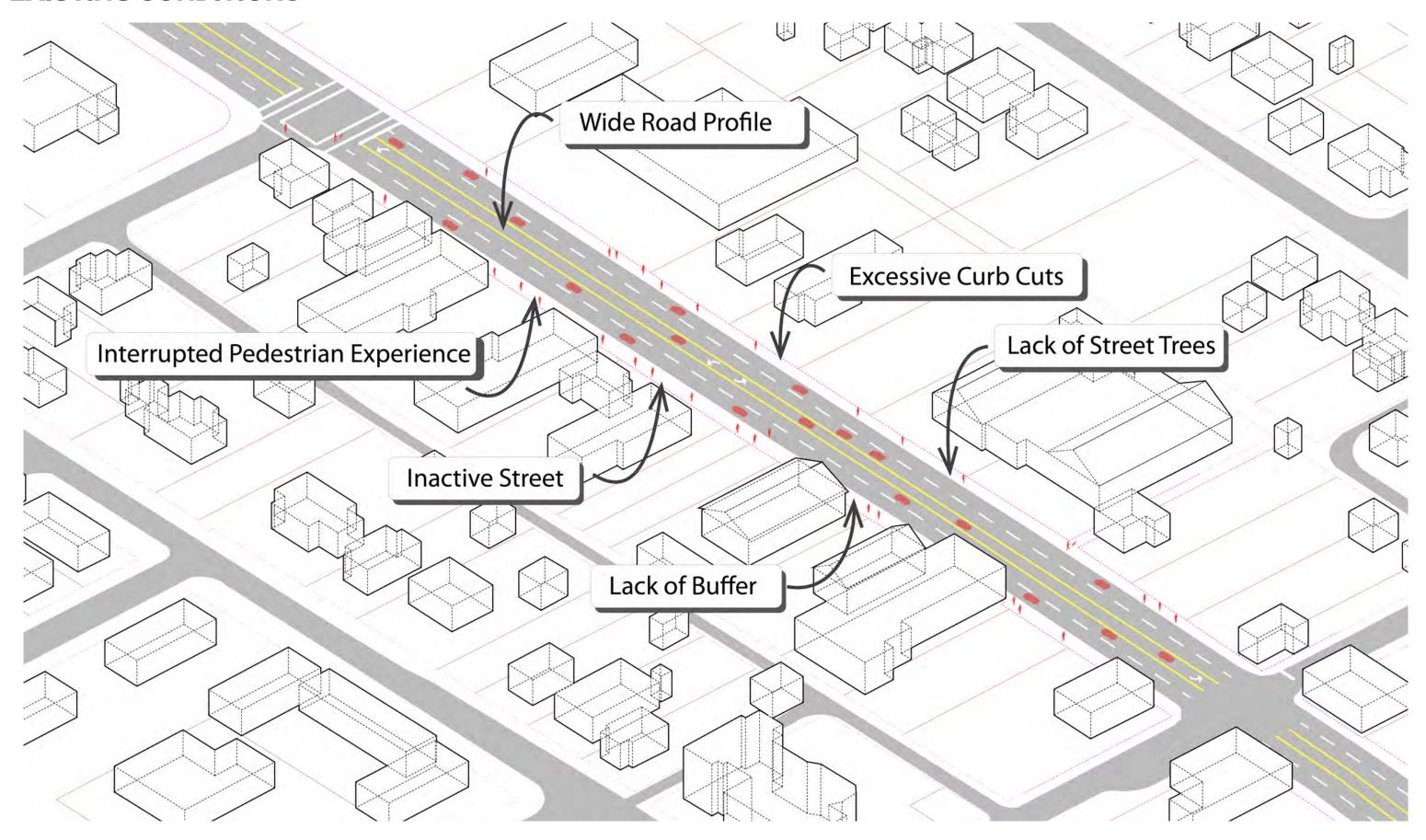


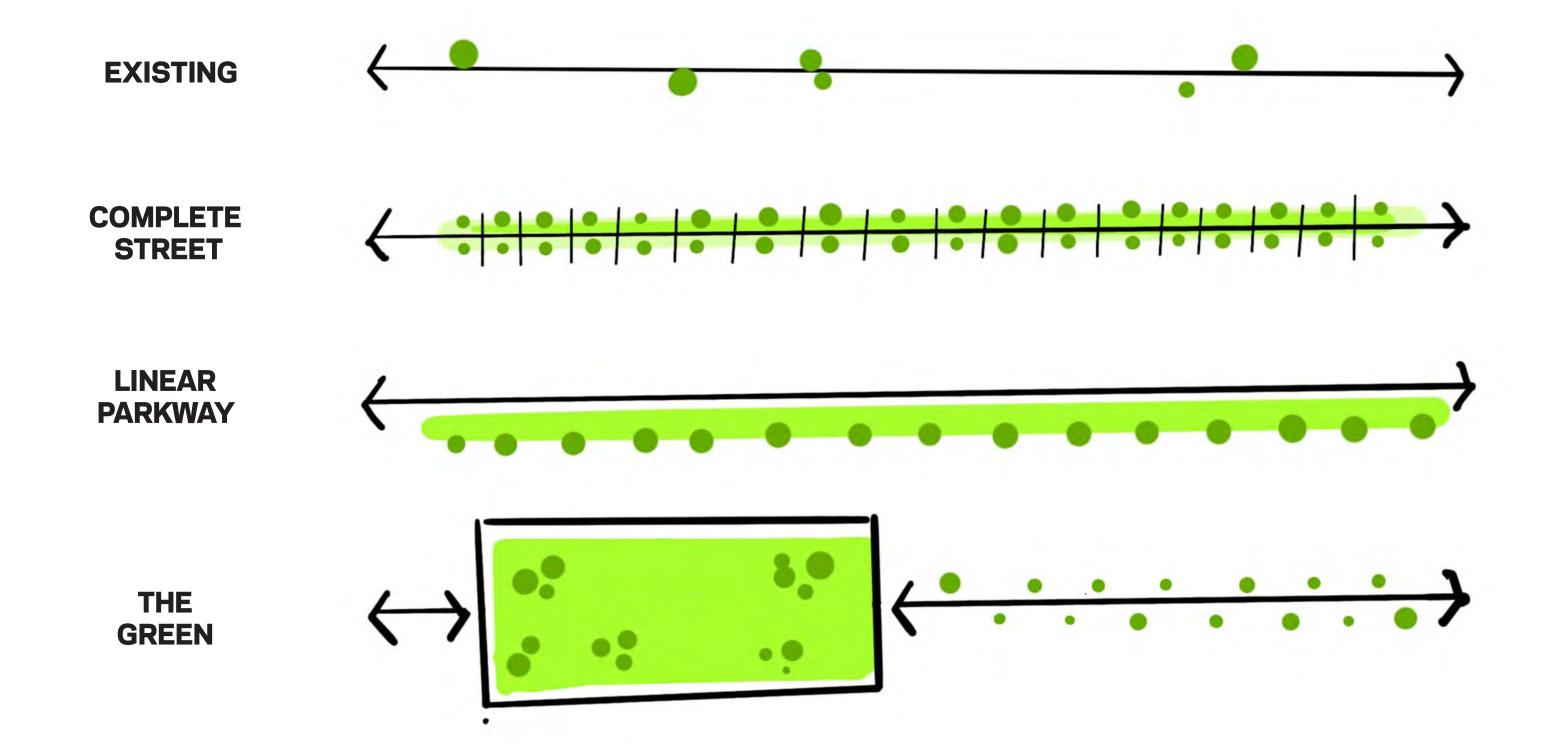


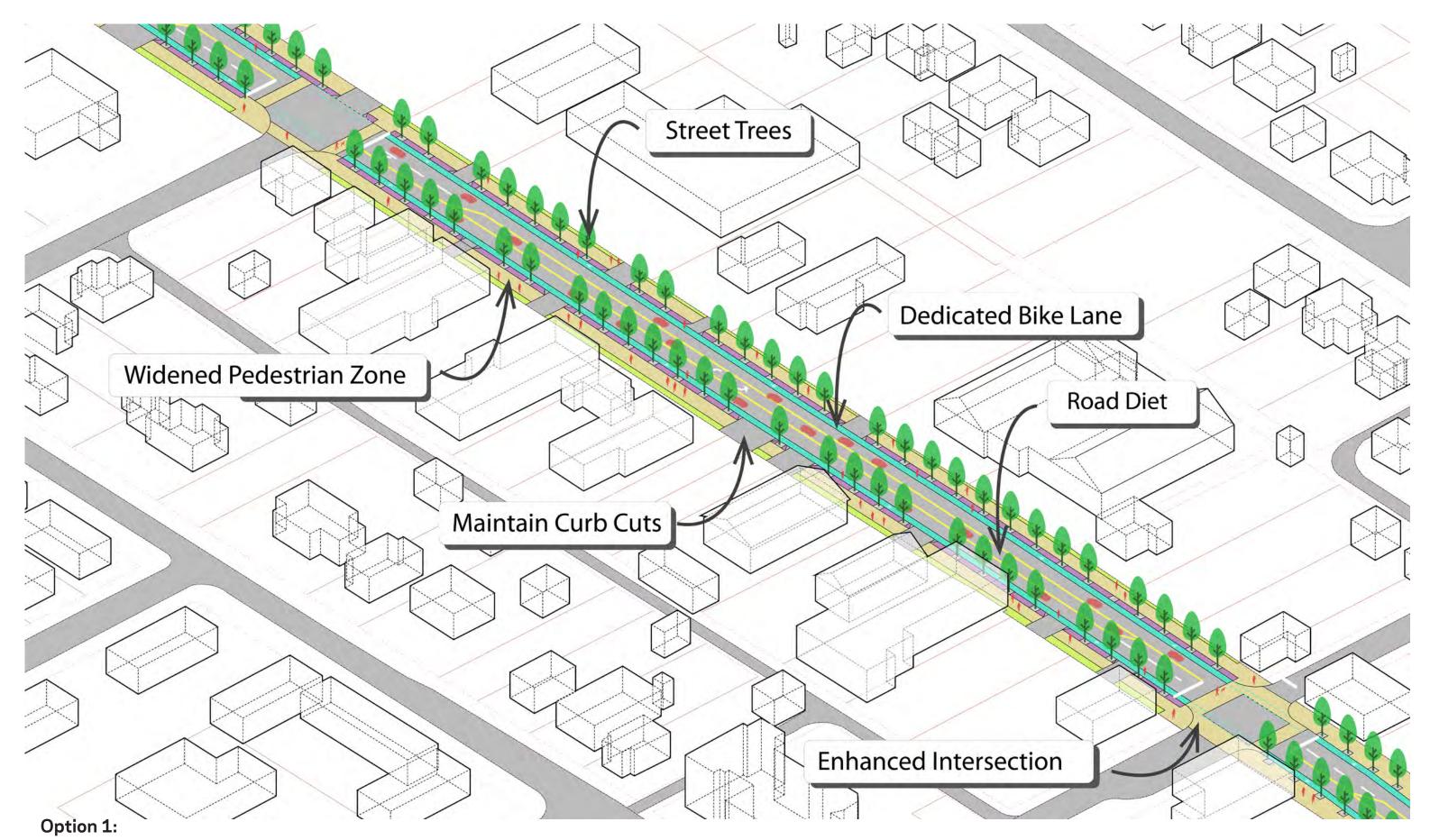




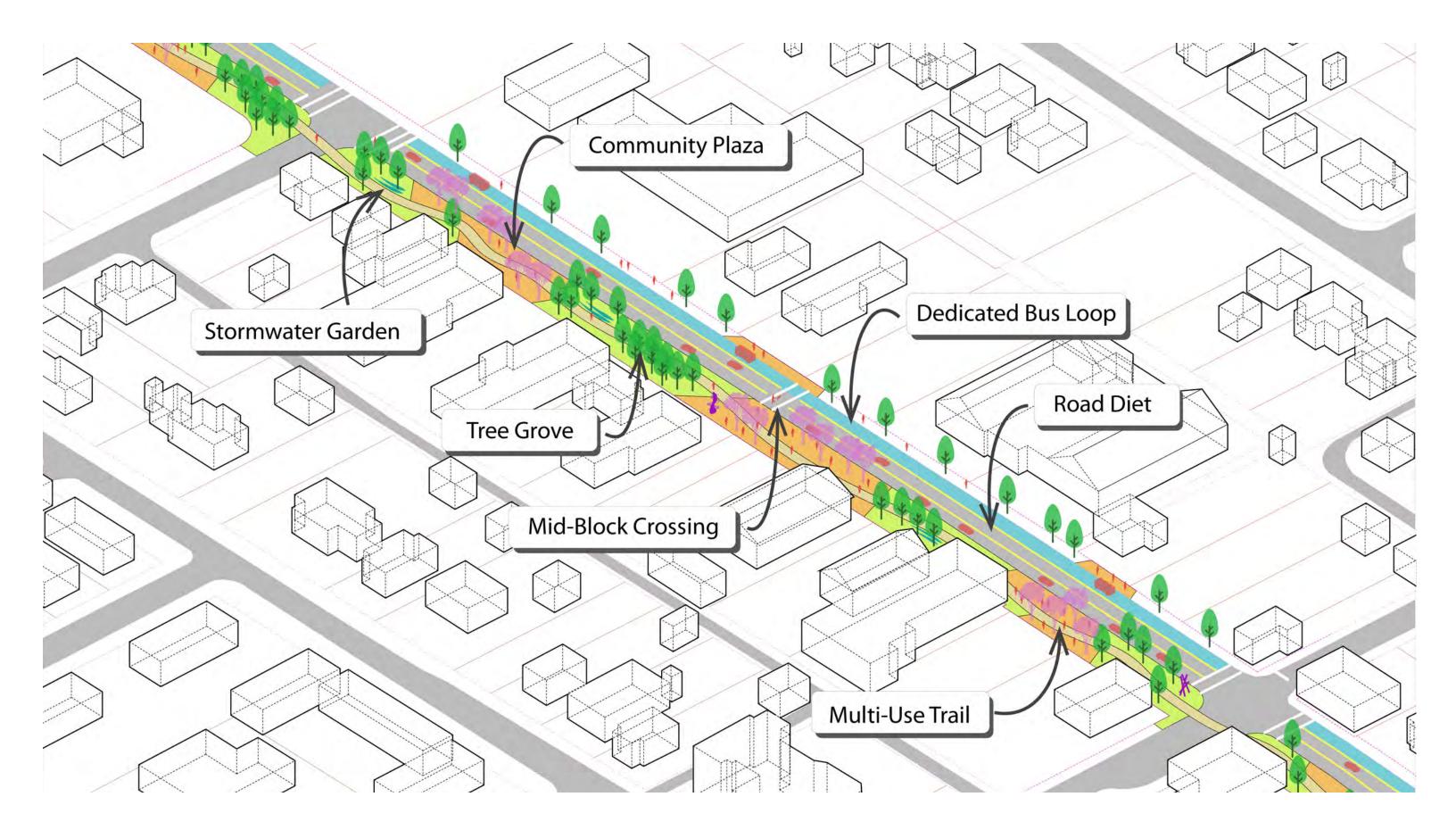
#### **EXISTING CONDITIONS**



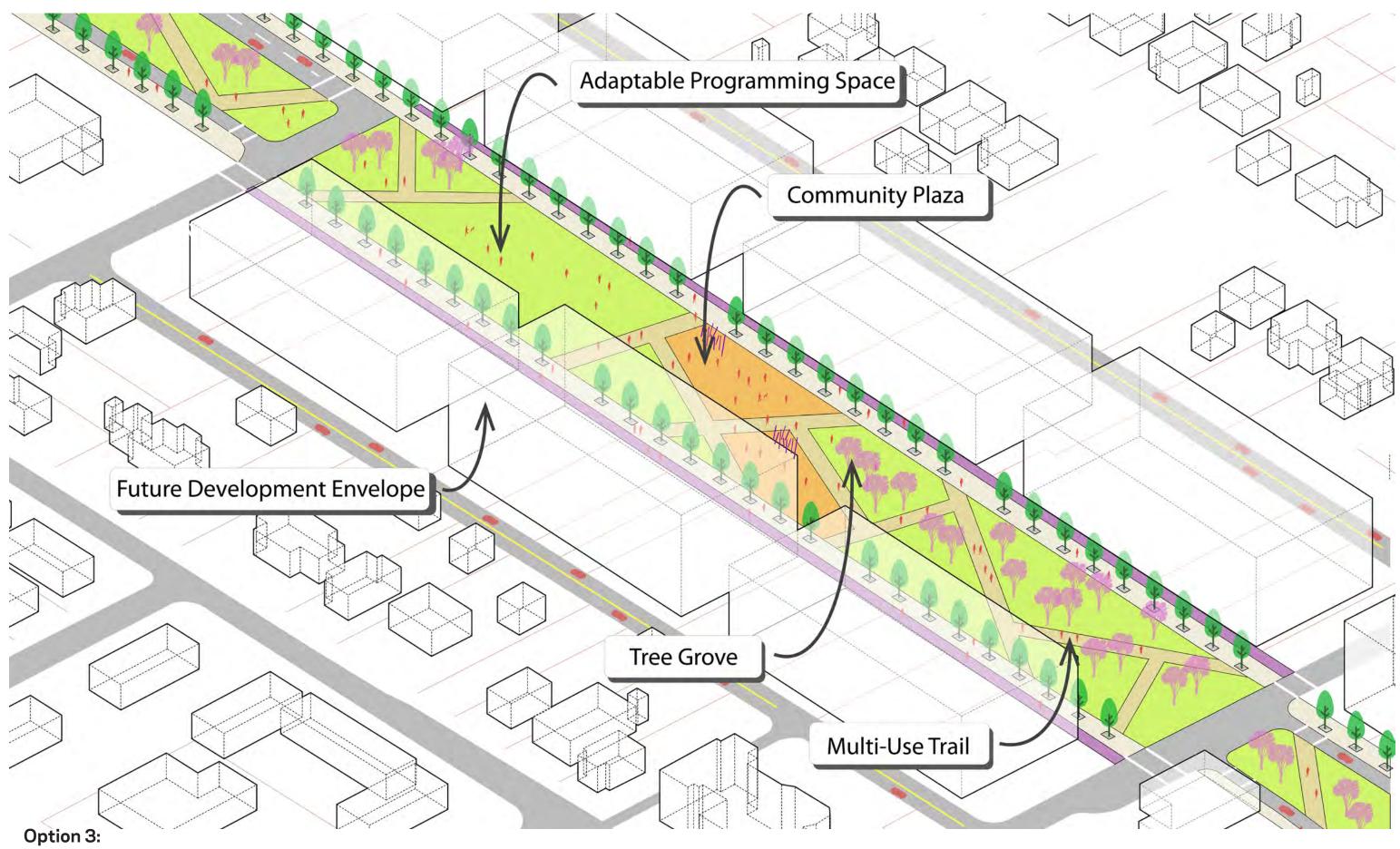




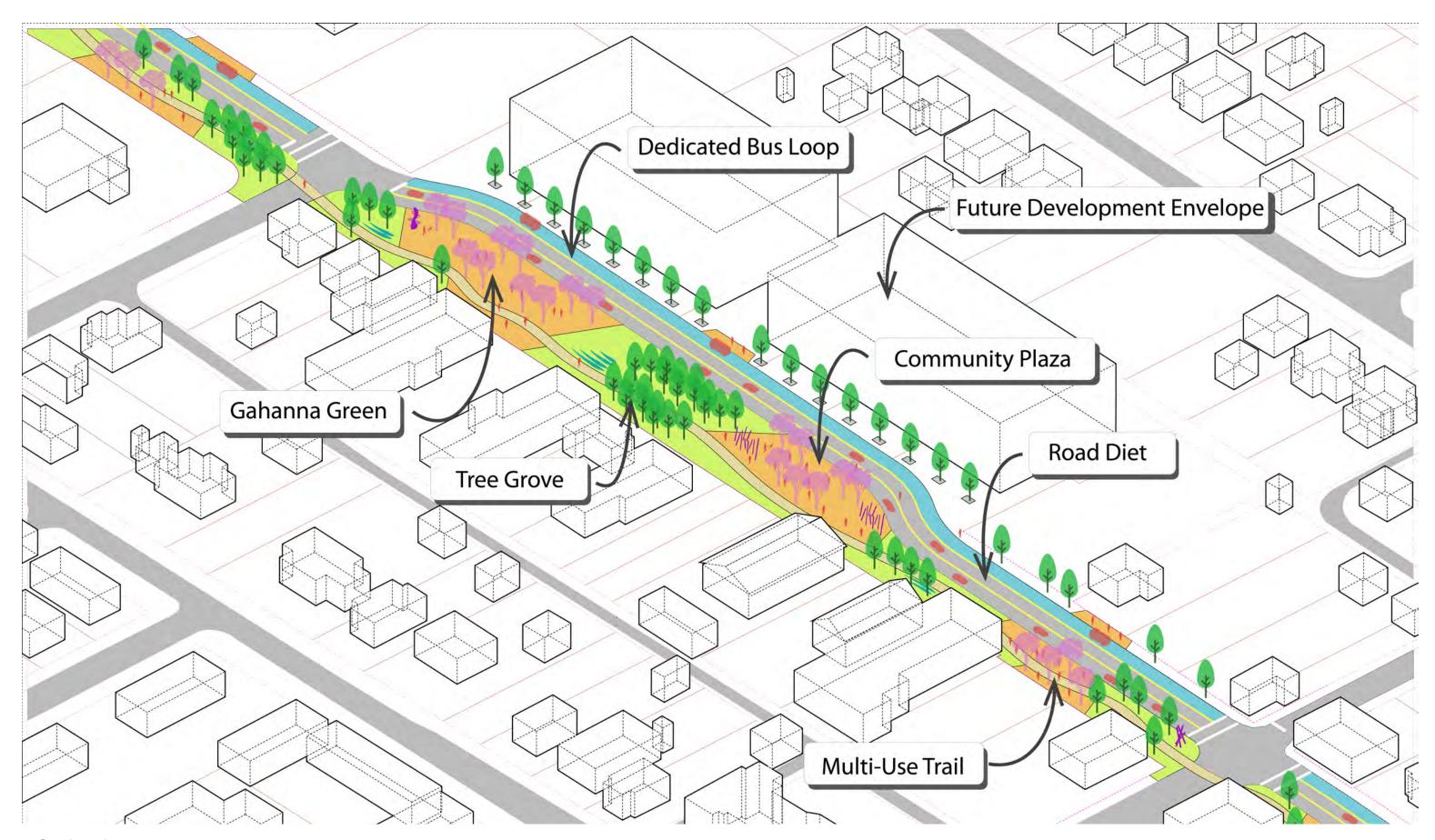
THE COMPLETE STREET



Option 2: THE LINEAR PARKWAY



**THE GREEN** 



Option 4:

THE HYBRID

#### On the Road: Rethinking Freeways—and the Spaces Alongside Them



