Community Design Workshops Weight Workshops Weight Workshops



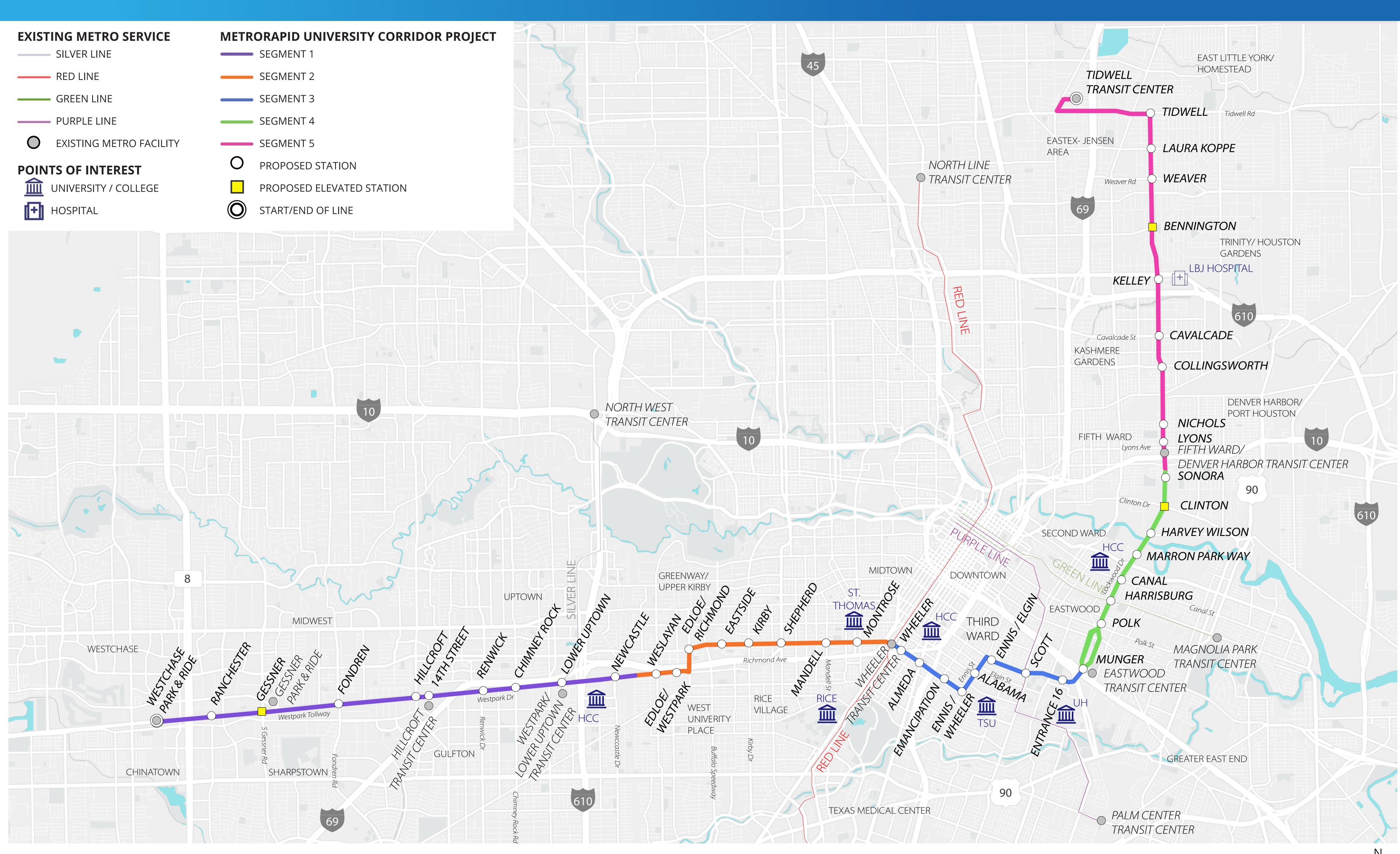


INTRODUCTION



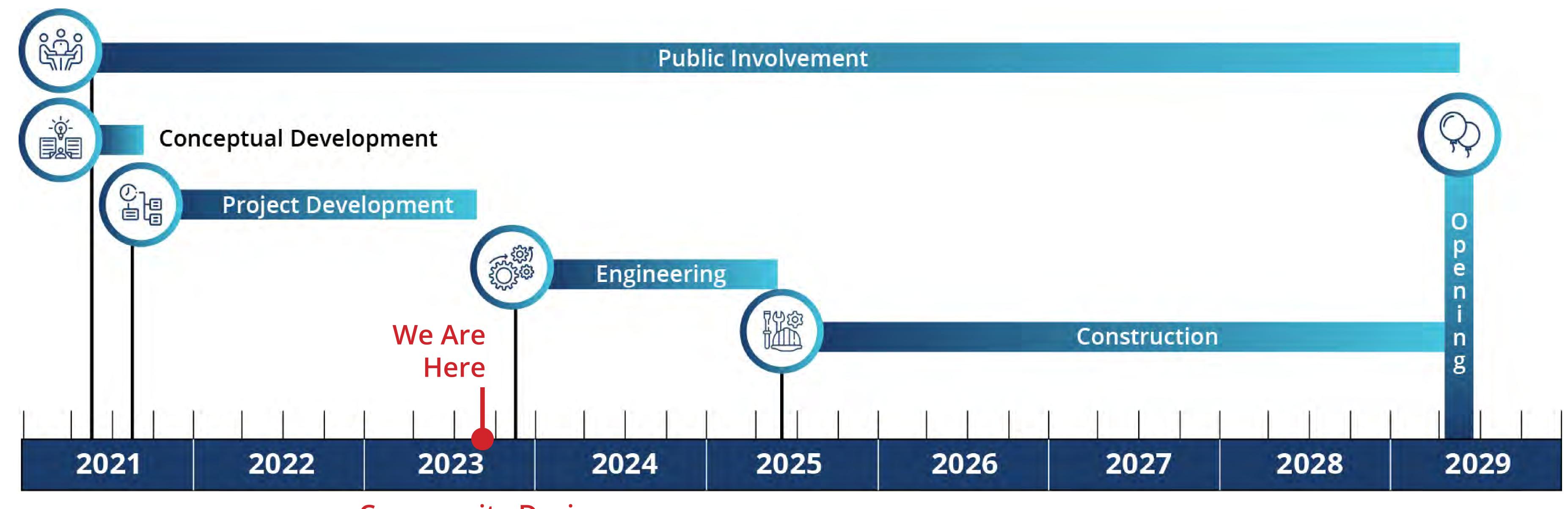
STATION 1

METRORAPID UNIVERSITY CORRIDOR MAP





TIMELINE







PURPOSE OF THIS WORKSHOP

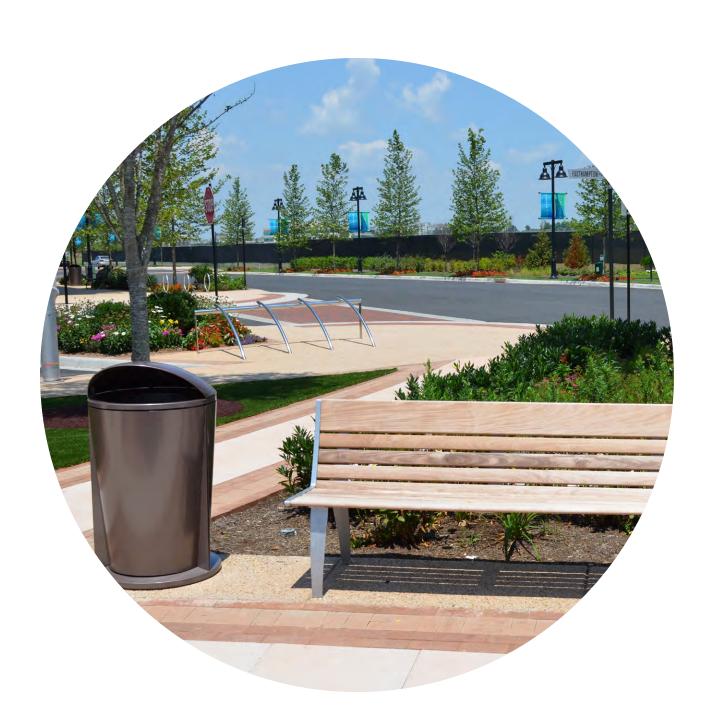
Collaborate with you to envision your public right-of-way for:



A comfortable pedestrian corridor



Landscaped and shaded corridor



Corridor amenities

Design the pedestrian corridor with your preferred neighborhood amenities.



WHAT IS URBAN DESIGN?

With collaboration, **Urban Design** creates the look, the feel and the function of public spaces.

METRO Urban Design Manual directs places to be:



Accessible



Safe



Comfortable



Convenient



Enjoyable



Scan here to read the Urban Design Manual





COLLABORATING TO CREATE A VISION

Four Lenses for Urban Design from the METRO Urban Design Manual

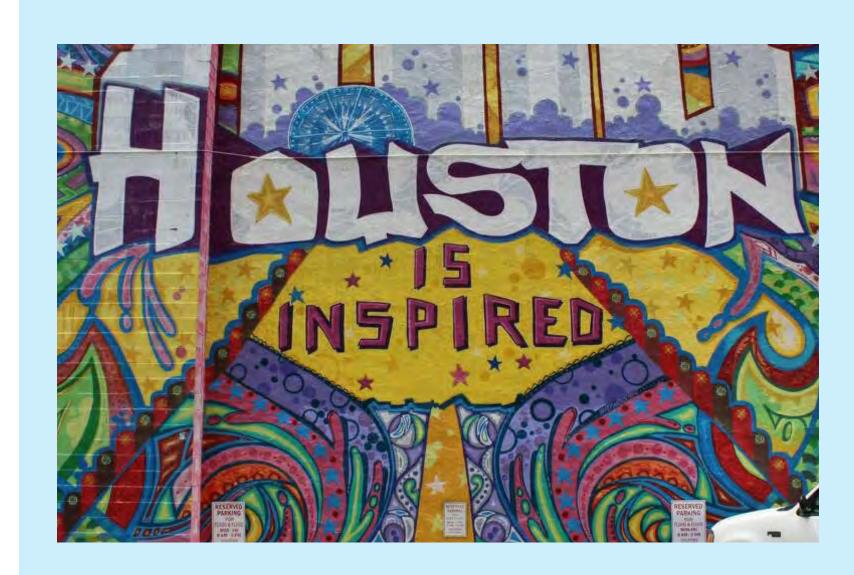
ENVIRONMENTAL RESILIENCE



Integrate elements that consider:

- Stormwater
 management
- Energy consumption
- Light pollution reduction
- Design elements to mitigate the impacts of heat island effect through green infrastructure, shelters and shade canopy
- Preserve trees

DIVERSE COMMUNITIES



Celebrate community identity with:

- Art opportunities
- Language diversity
- Accessible communication

SUSTAINABLE DEVELOPMENT



Support

- Multi-modal connections
- Bicycle and other micromobility choices
- Transit oriented spaces

CUSTOMER EXPERIENCE



Promote

- A positive travel experience
- Position transit as a preferred mode of travel with a strong focus on safe, clean and reliable services

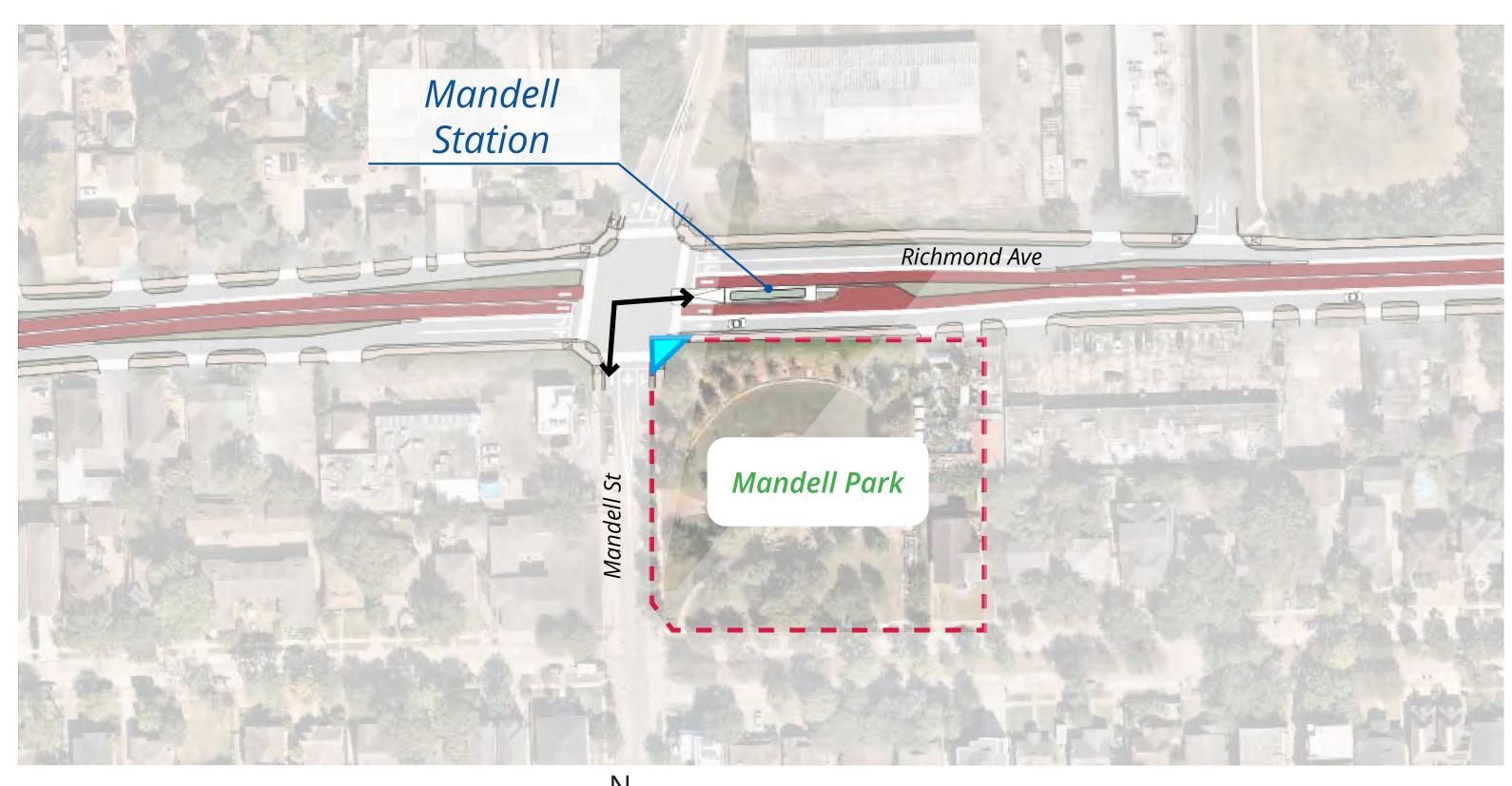


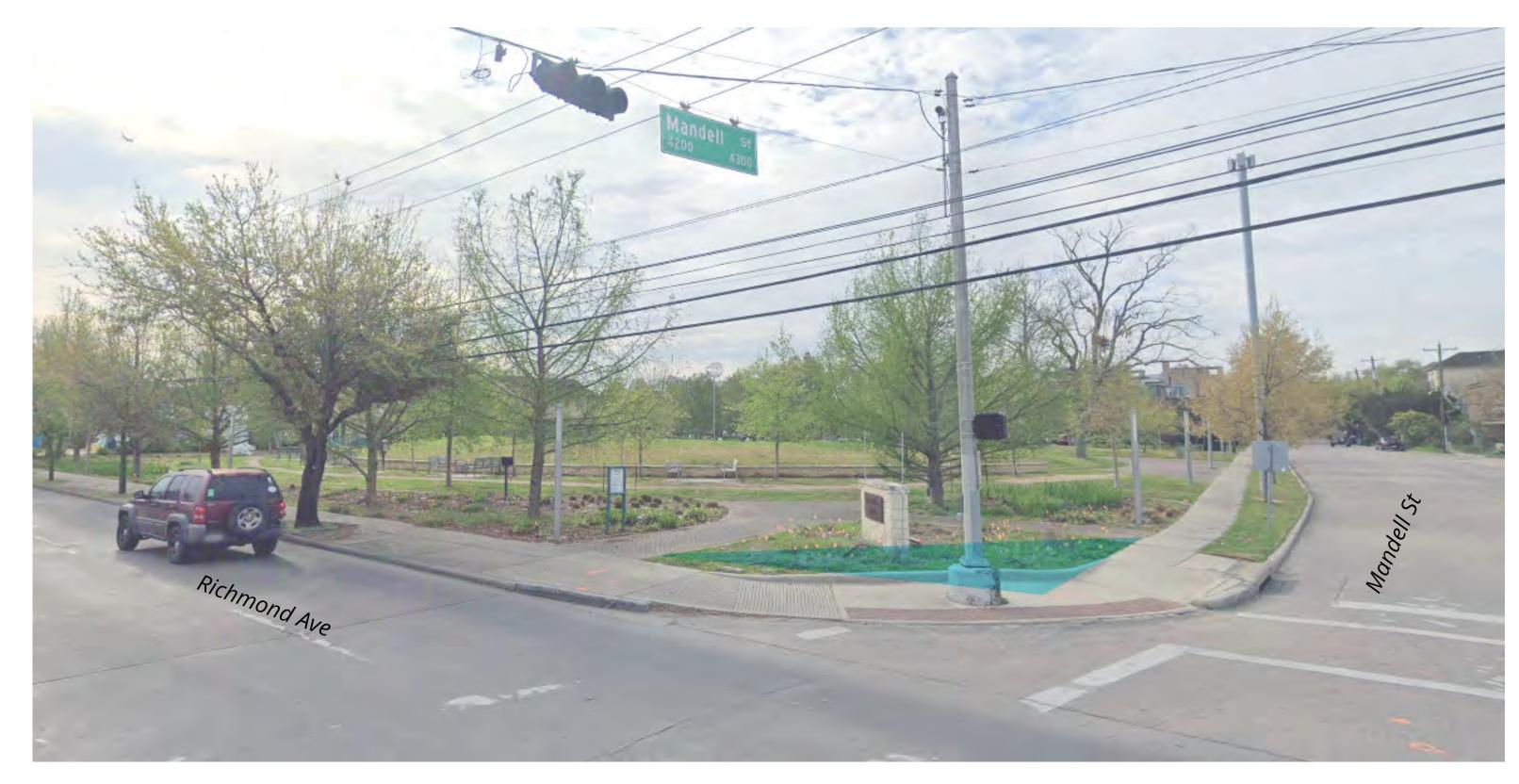
ACCESSIBILITY IMPROVEMENTS AT PARKS

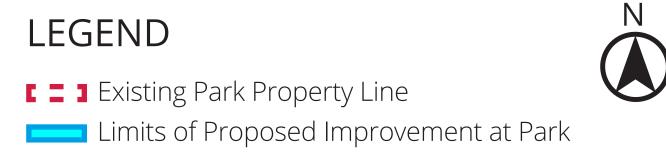
As part of the METRORapid University Corridor Project, METRO will be building sidewalks and ADA improvements at three City of Houston parks where the project passes: Mandell Park, Peggy Park, and Diez Street Park.

The City of Houston Parks and Recreation Department's (HPARD) acknowledges the overall benefit of the project results in "improved sidewalks and pedestrian / bicycle access to the parks". It is part of the federal process to notify the public of any changes to Park Property.

Mandell Park



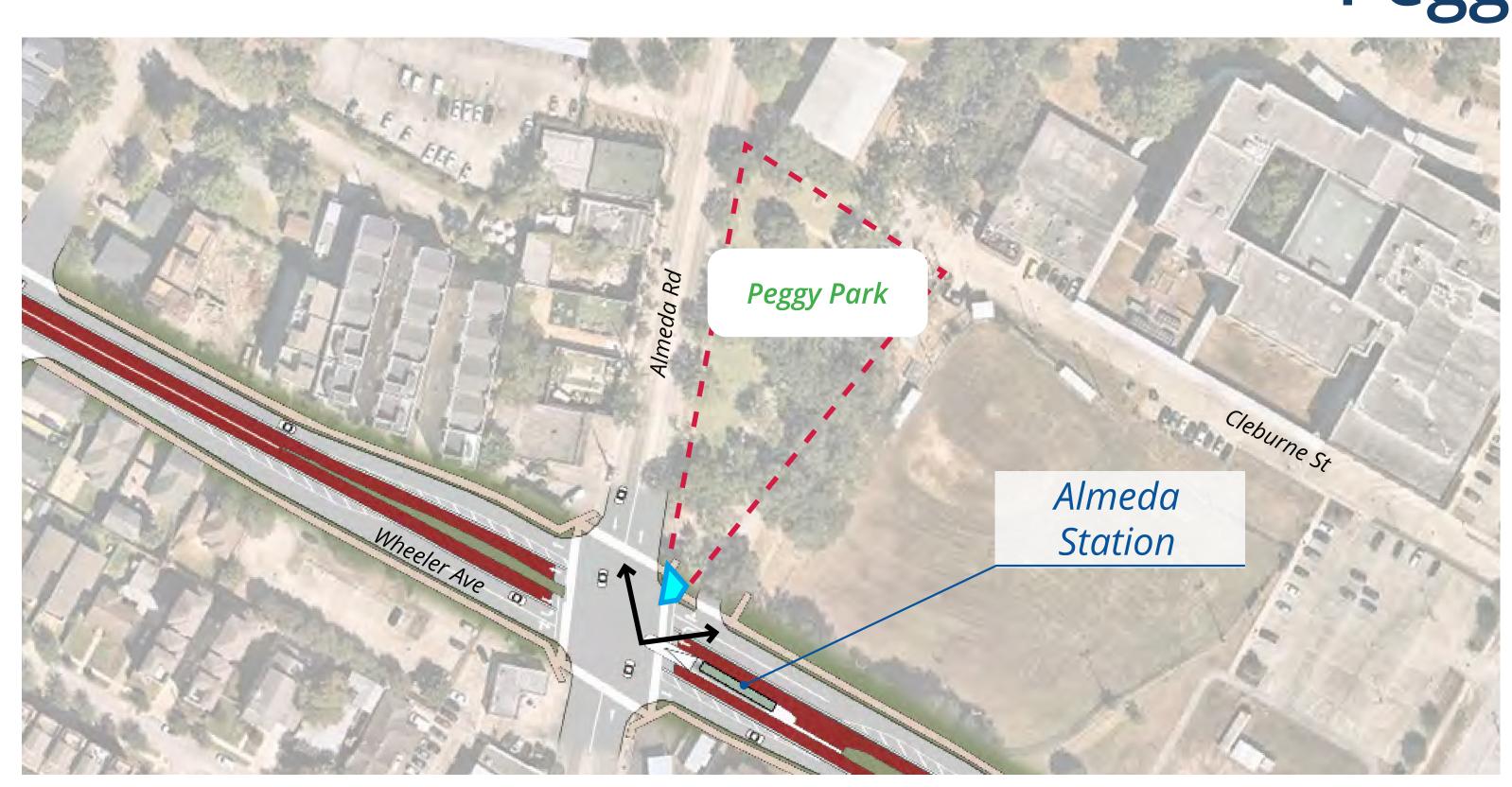






ACCESSIBILITY IMPROVEMENTS AT PARKS

Peggy Park

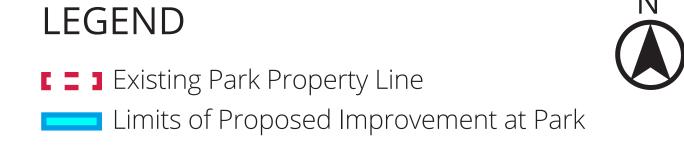




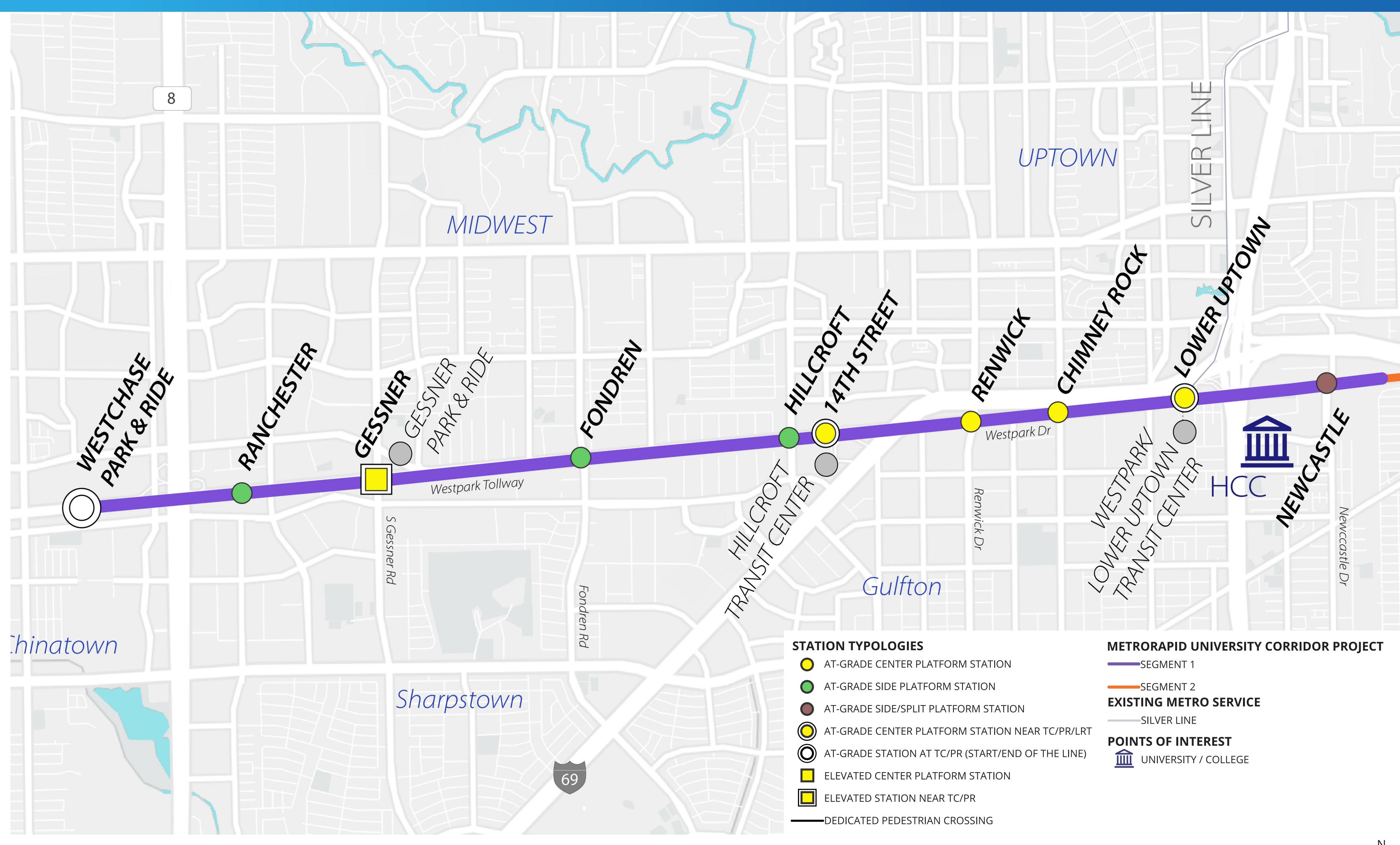
Diez Street Park



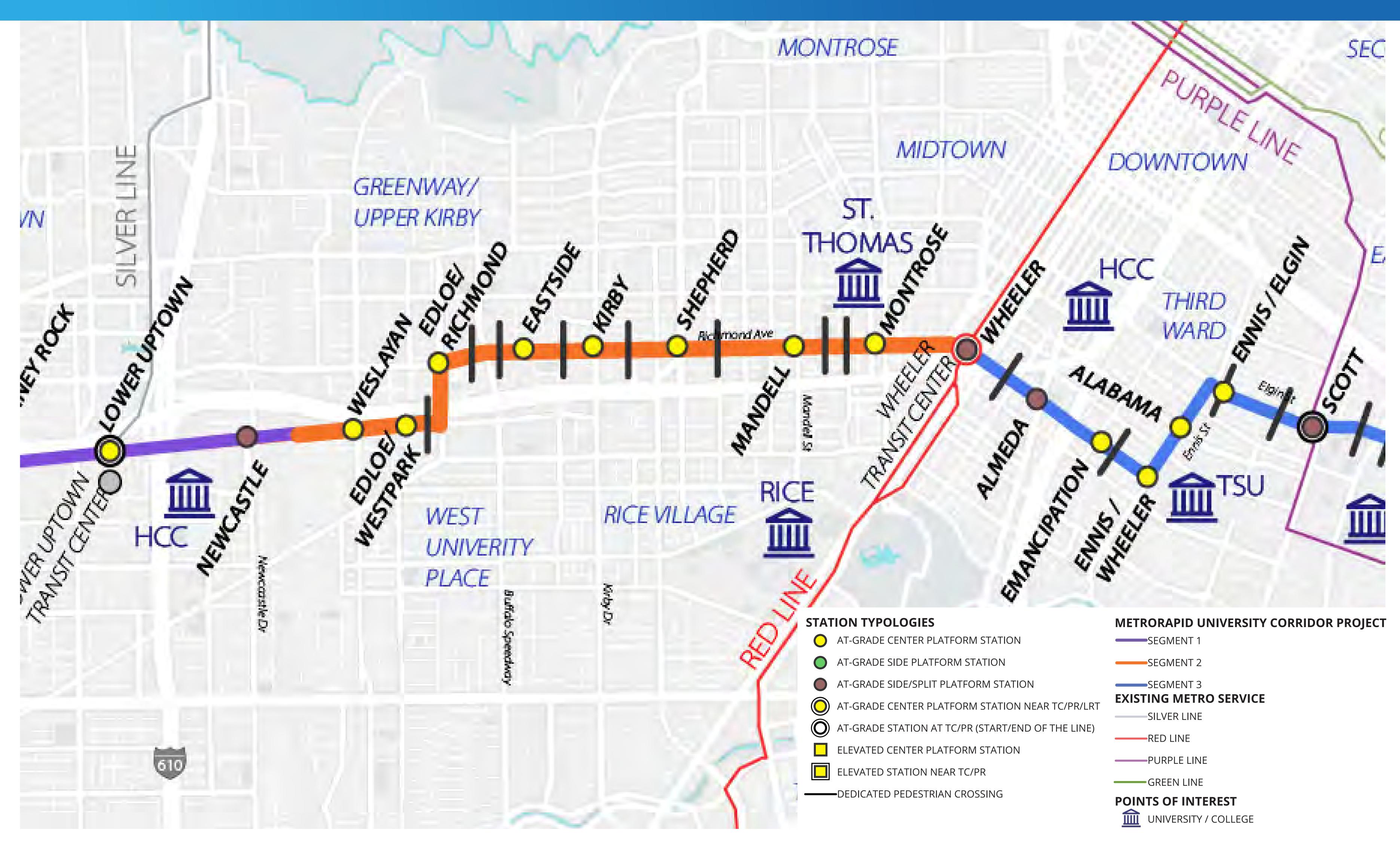




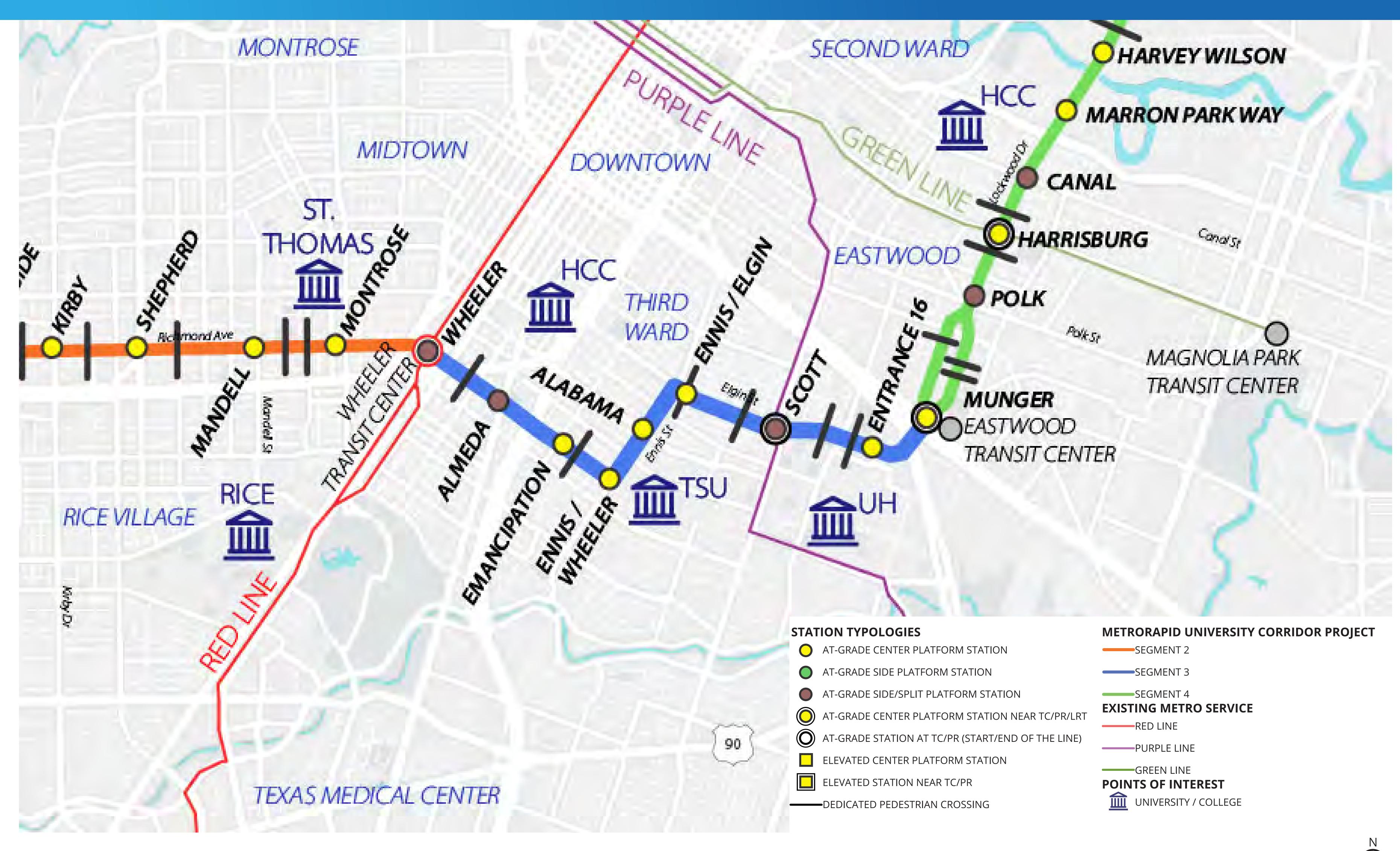








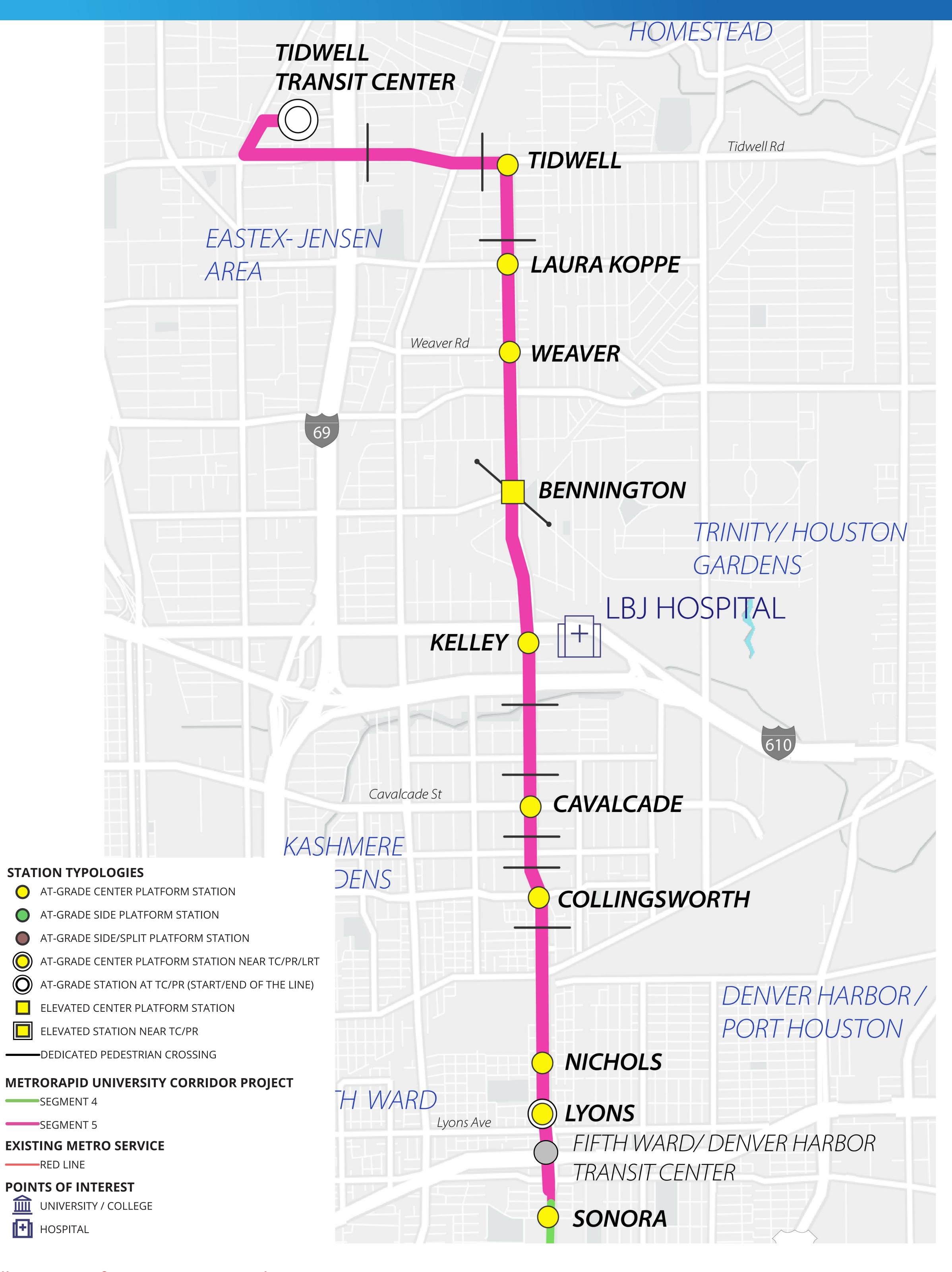










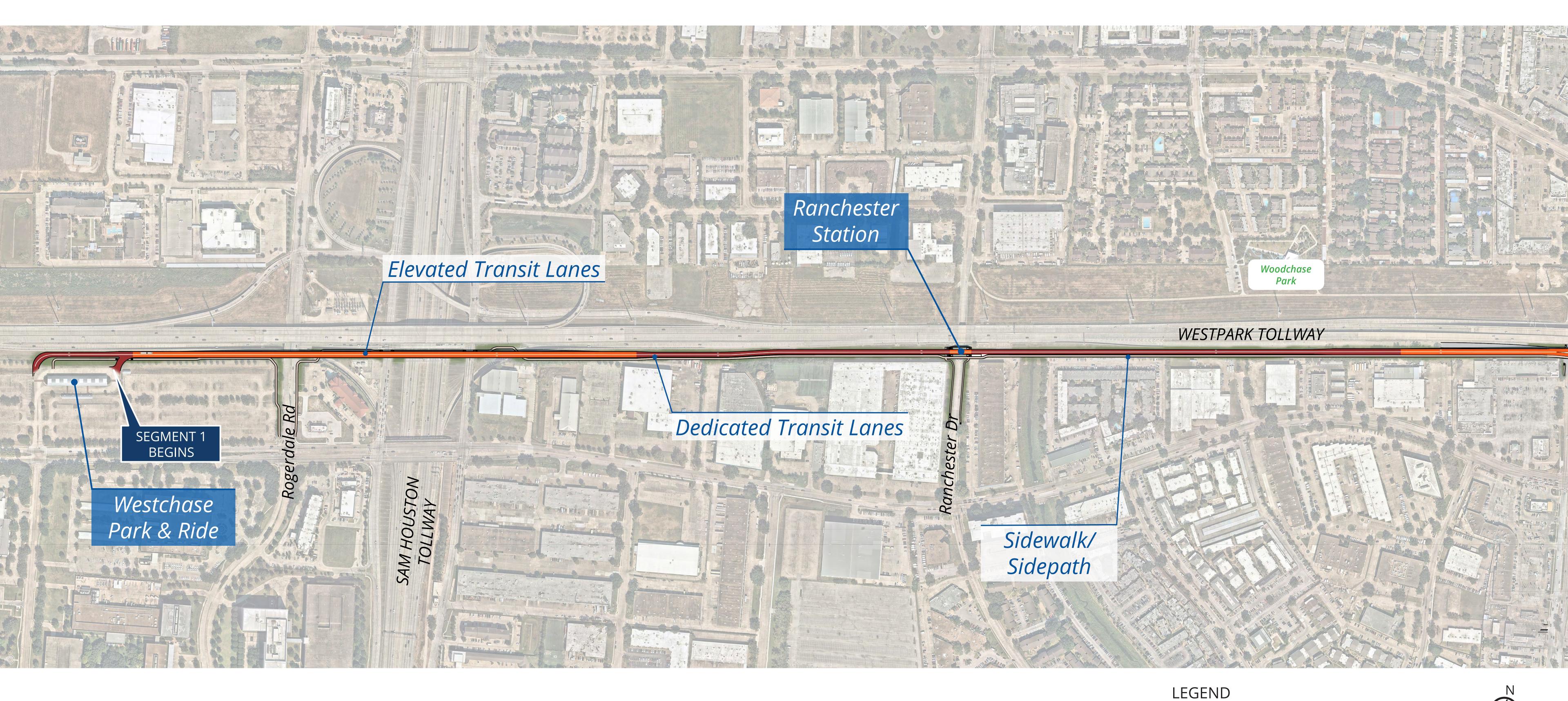




SEGMENT MAP



STATION 2



Illustrations for representational purposes only. Preliminary and subject to change based on public input and technical review.



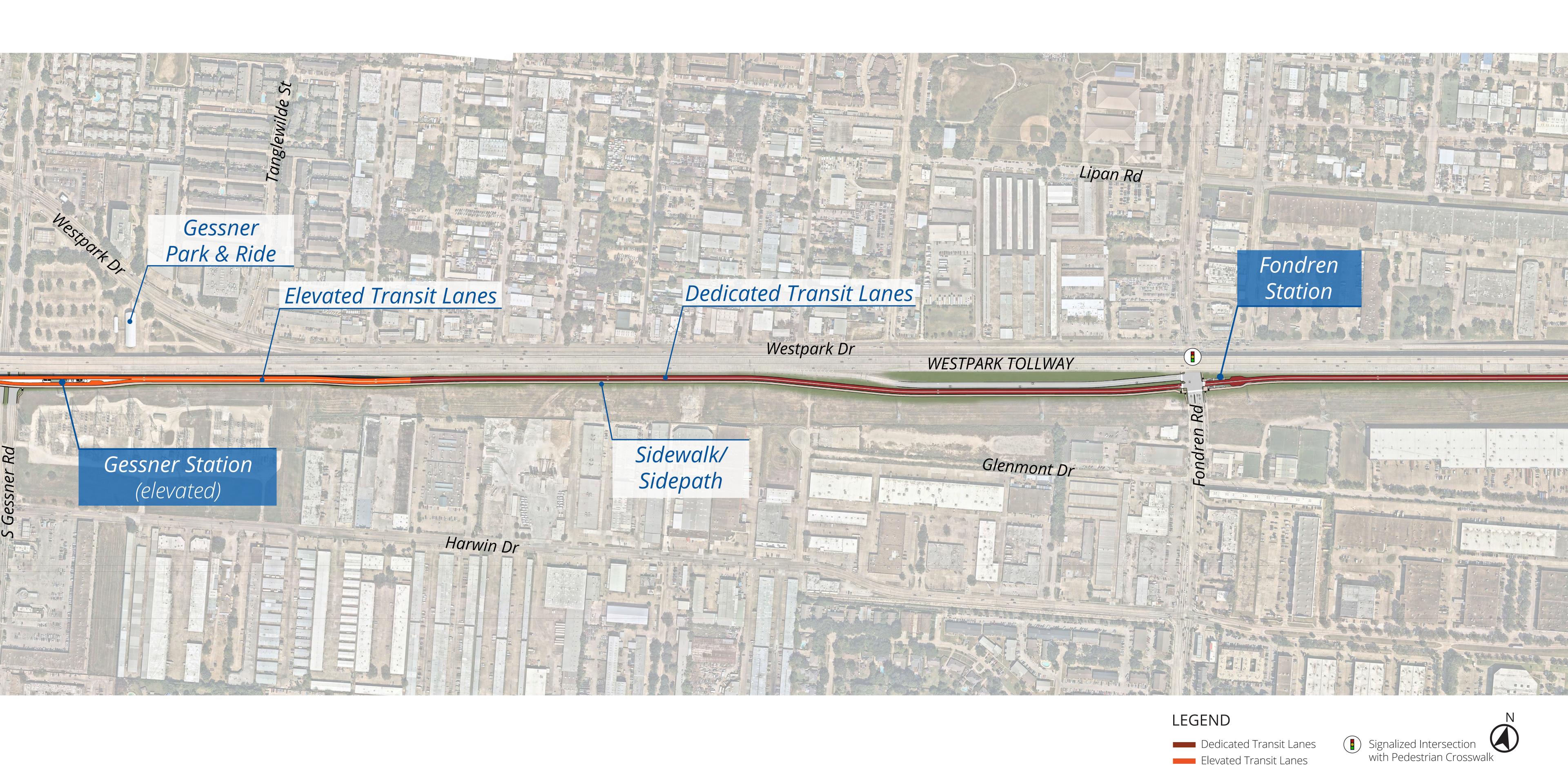
Dedicated Transit Lanes Elevated Transit Lanes

Platform General Purpose Lane Sidewalk/Sidepath

Signalized Intersection with Pedestrian Crosswalk

Dedicated Pedestrian Crossing

Dedicated Left Turn



METRO

Dedicated Pedestrian Crossing

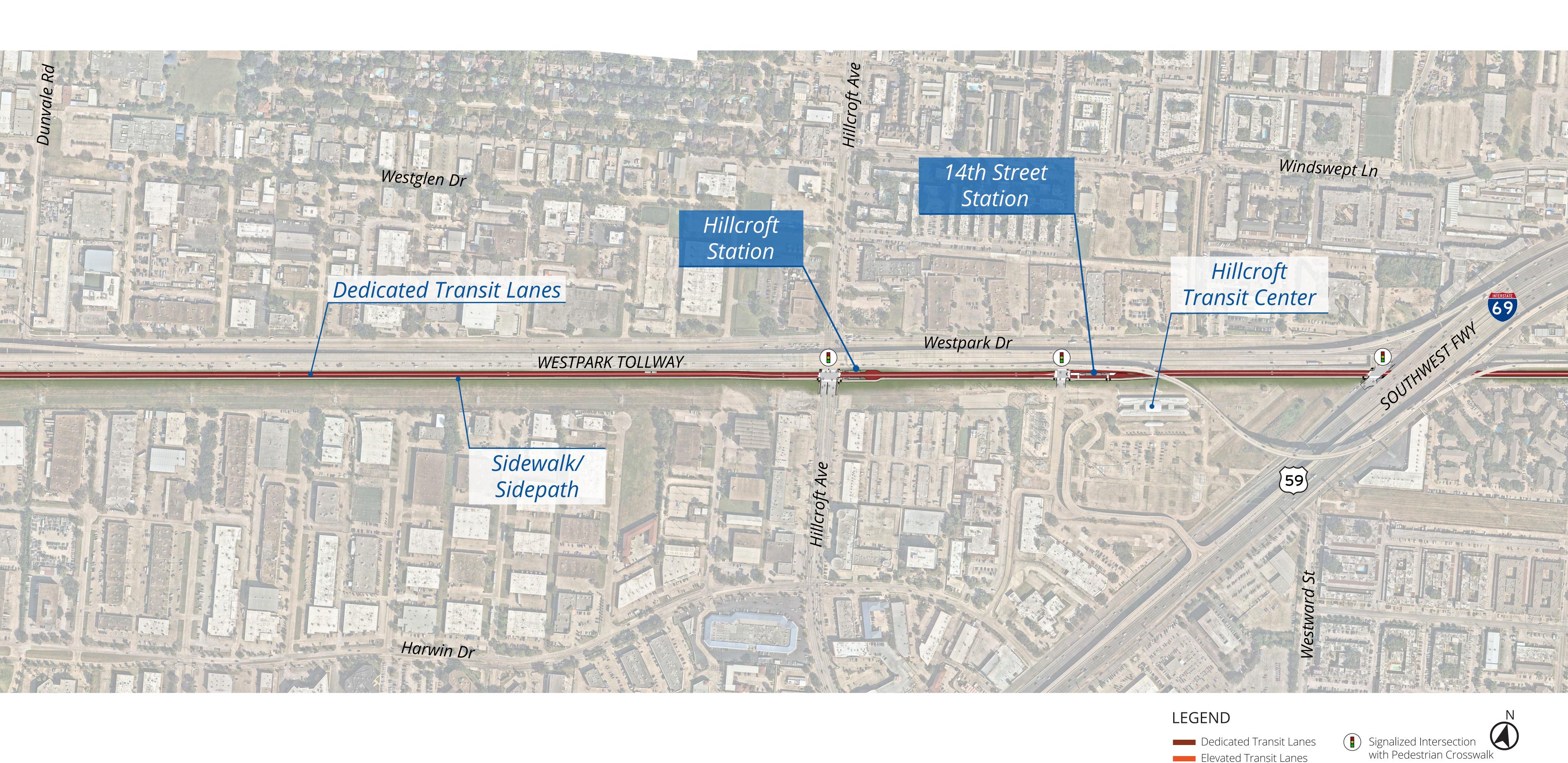
Dedicated Left Turn

Elevated Transit Lanes

General Purpose Lane

Sidewalk/Sidepath

Platform



Preliminary and subject to change based on public

Illustrations for representational purposes only.

input and technical review.



Dedicated Pedestrian Crossing

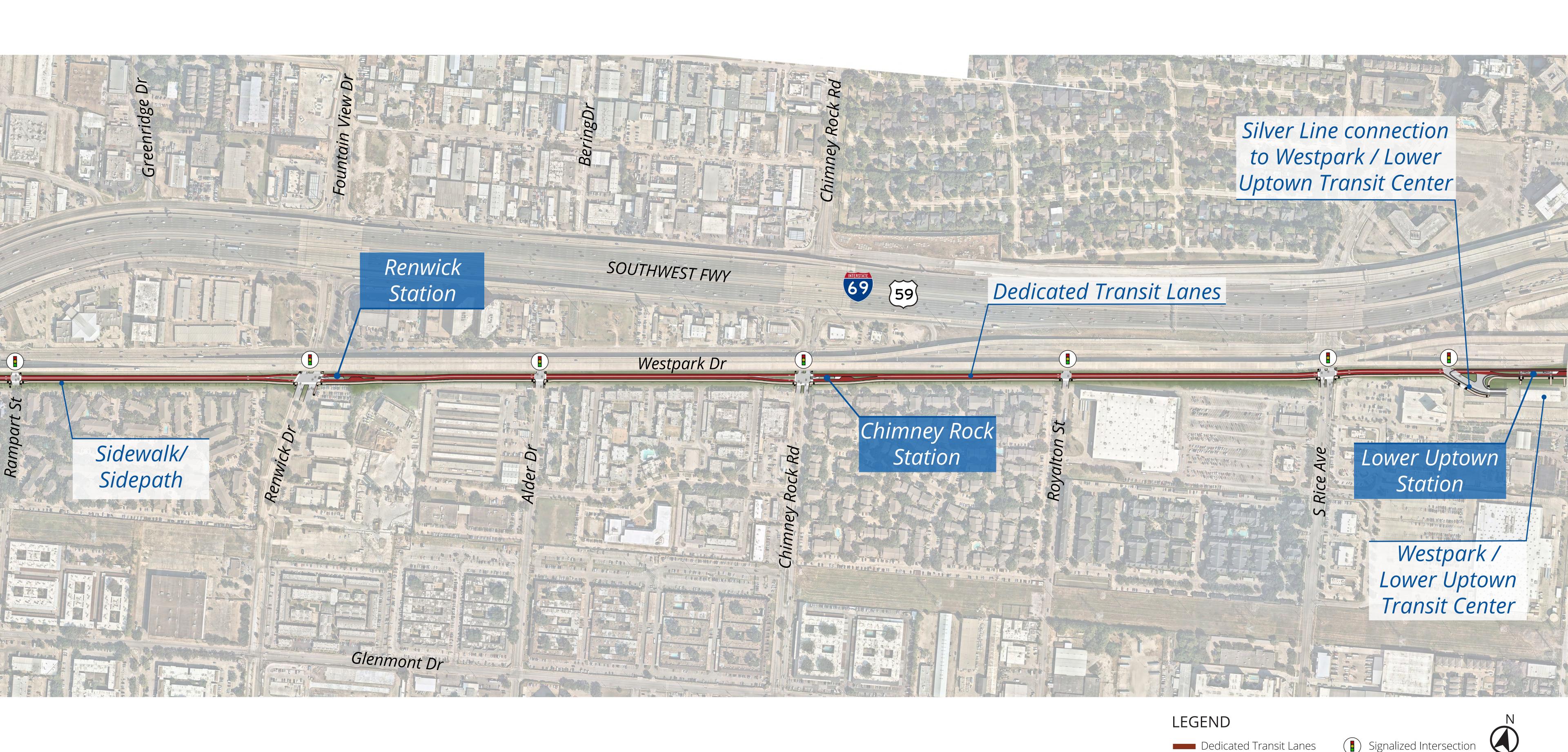
Dedicated Left Turn

Elevated Transit Lanes

General Purpose Lane

Sidewalk/Sidepath

Platform



Elevated Transit Lanes

General Purpose Lane

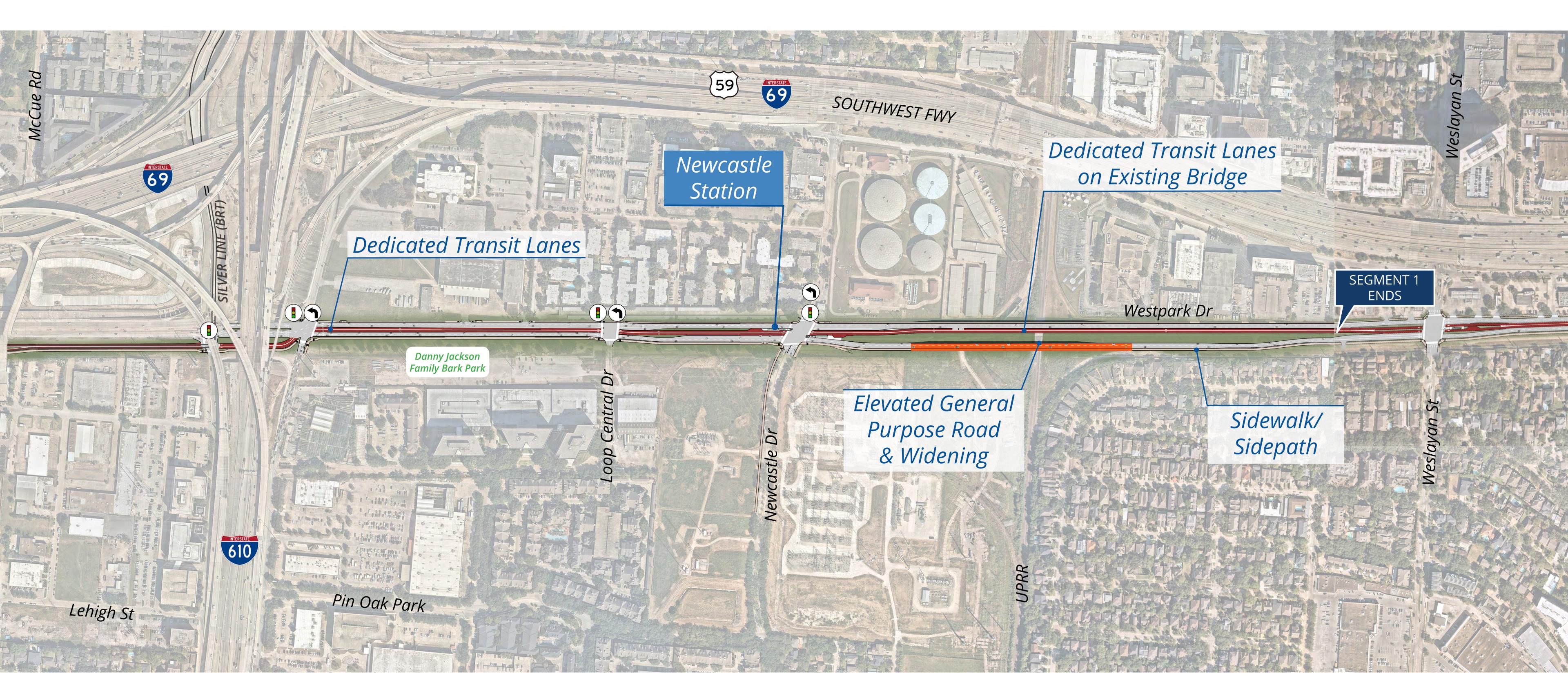
Sidewalk/Sidepath

☐ Platform

with Pedestrian Crosswalk

Dedicated Pedestrian Crossing

Dedicated Left Turn



Dedicated Transit LanesElevated Transit Lanes

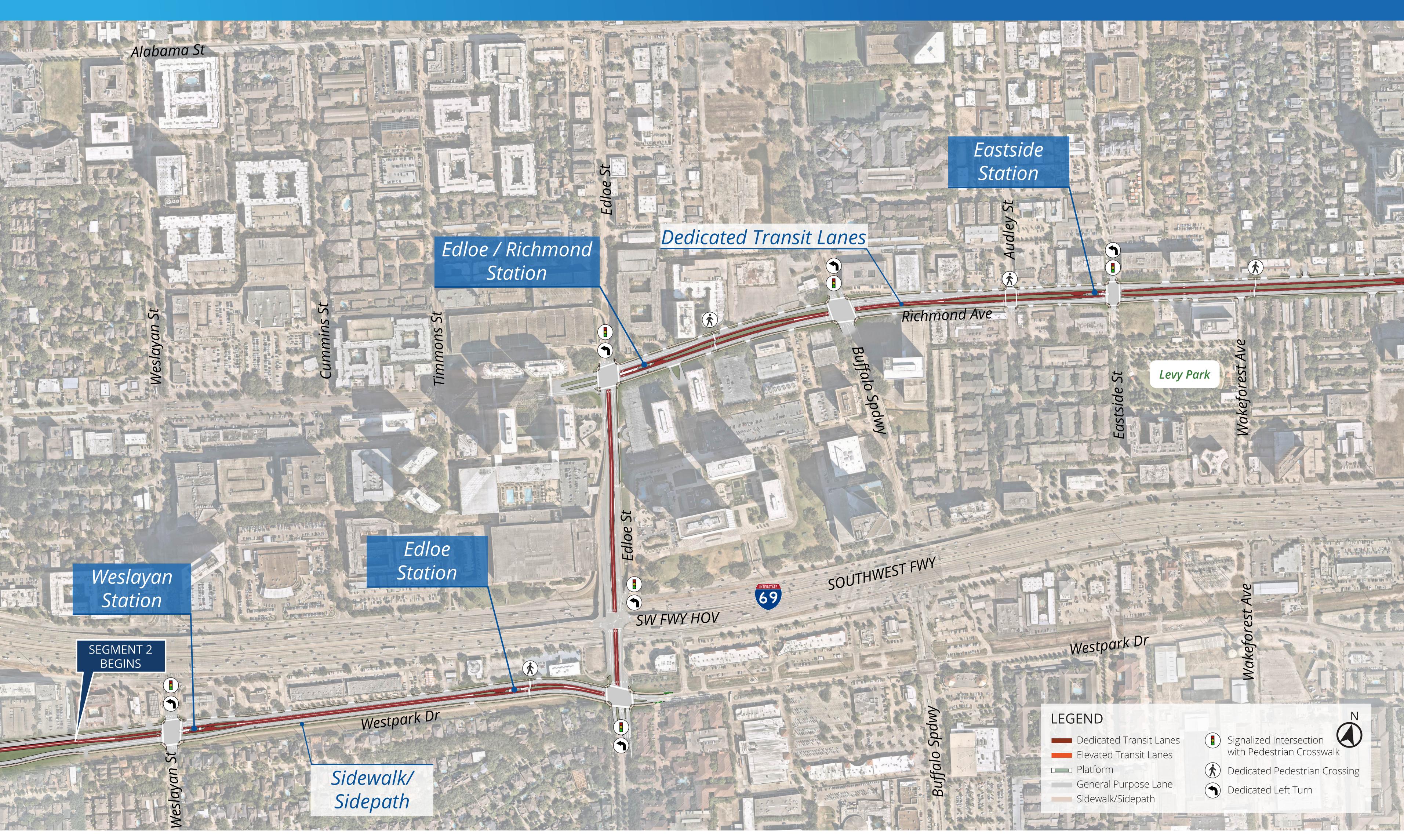


General Purpose Lane
Sidewalk/Sidepath

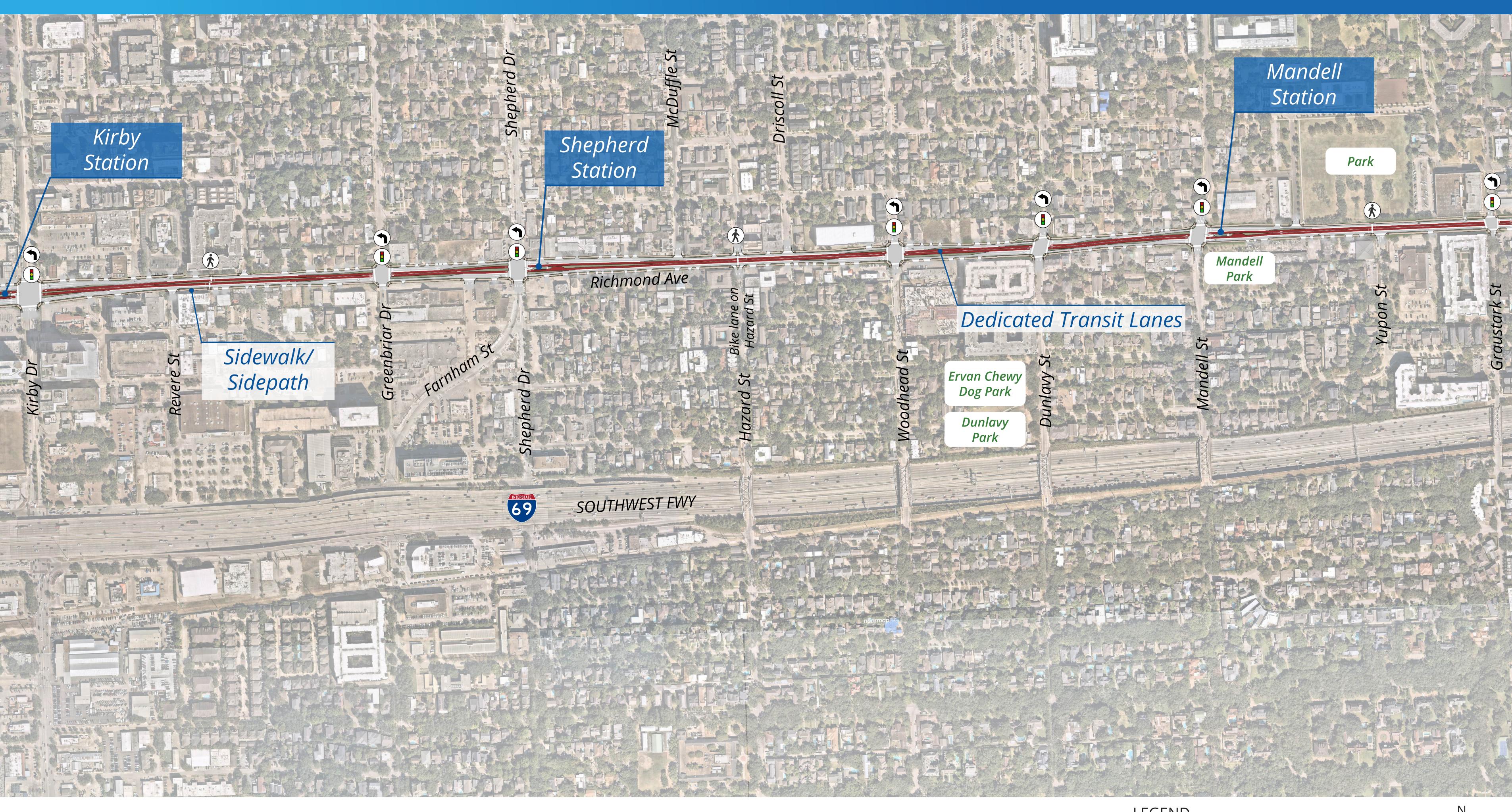
Signalized Intersection with Pedestrian Crosswalk

Dedicated Pedestrian Crossing

Dedicated Left Turn







Illustrations for representational purposes only. Preliminary and subject to change based on public input and technical review.



LEGENDDedicated Transit LanesElevated Transit LanesPlatform

PlatformGeneral Purpose LaneSidewalk/Sidepath

Signalized Intersection with Pedestrian Crosswalk

Dedicated Pedestrian Crossing

Dedicated Left Turn

NOT TO SCALE
Community Design Workshops | 2023



Illustrations for representational purposes only. Preliminary and subject to change based on public input and technical review.



Dedicated Transit Lanes Elevated Transit Lanes Platform General Purpose Lane

Sidewalk/Sidepath

- Signalized Intersection with Pedestrian Crosswalk
- Dedicated Pedestrian Crossing
- Dedicated Left Turn

NOT TO SCALE
Community Design Workshops | 2023





Dedicated Pedestrian Crossing

Dedicated Left Turn

☐ Platform

General Purpose Lane

Sidewalk/Sidepath



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Preliminary and subject to change based on public input and technical review.

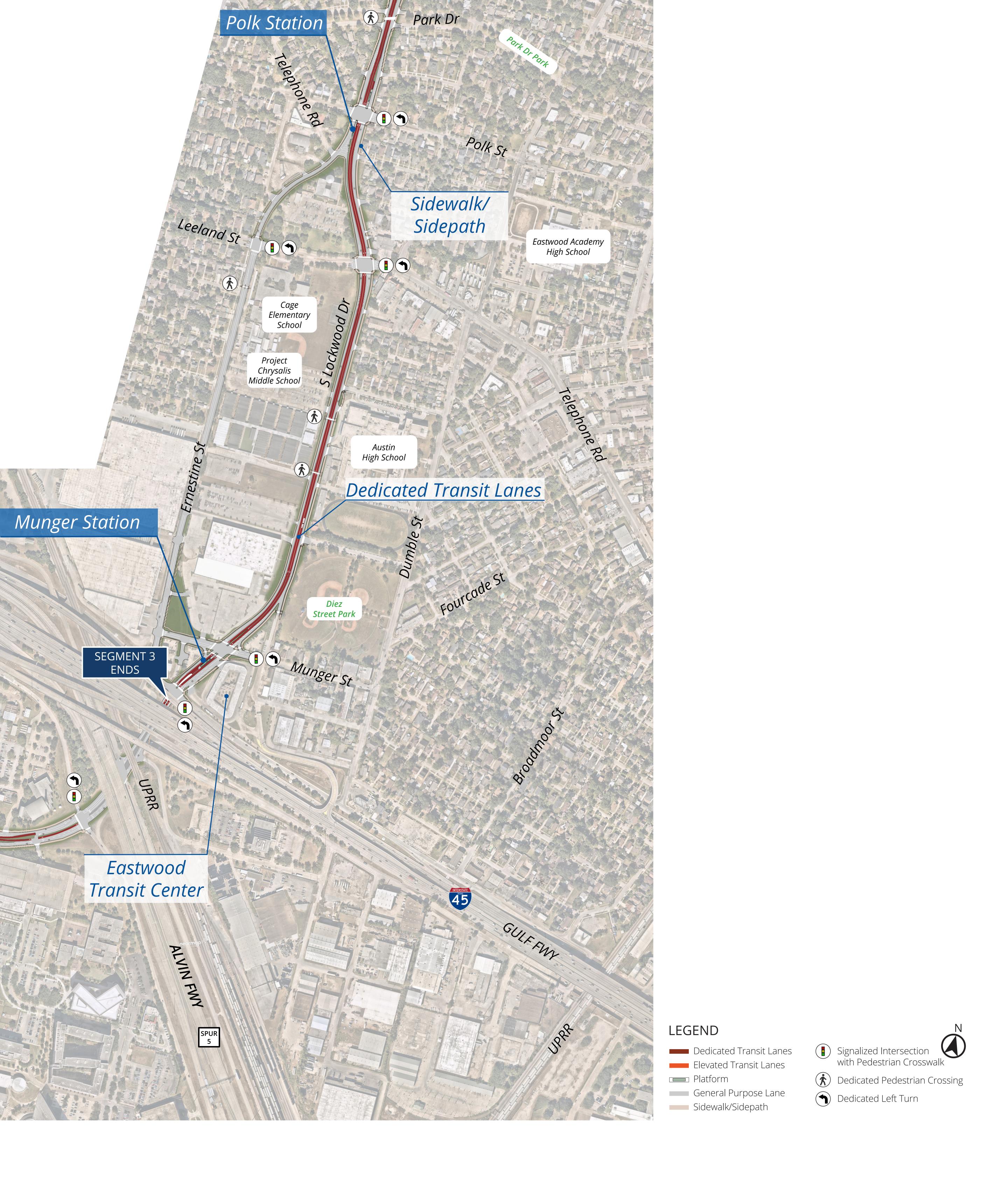


Elevated Transit Lanes

General Purpose Lane

Sidewalk/Sidepath

☐ Platform





Illustrations for representational purposes only. Preliminary and subject to change based on public input and technical review.

Dedicated Pedestrian Crossing

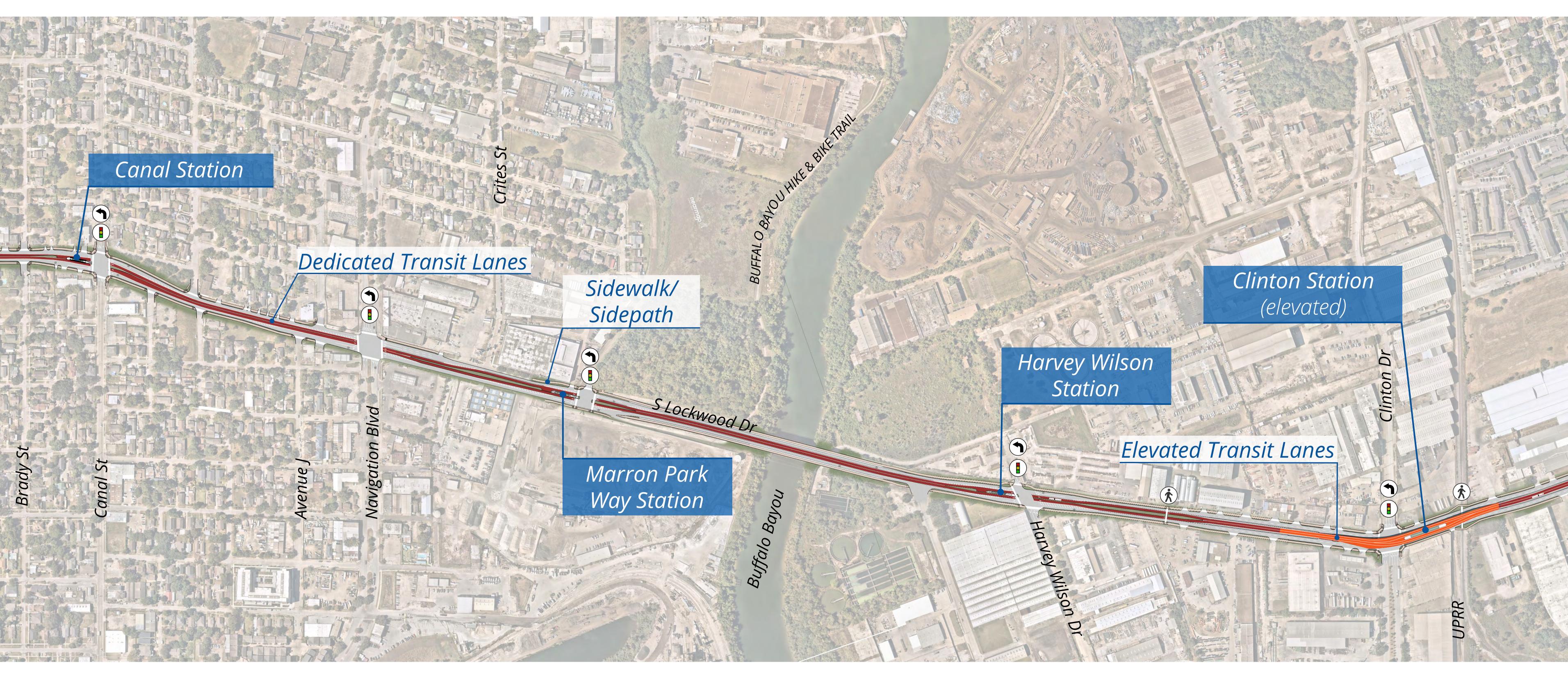
Dedicated Left Turn

Platform

General Purpose Lane

Sidewalk/Sidepath

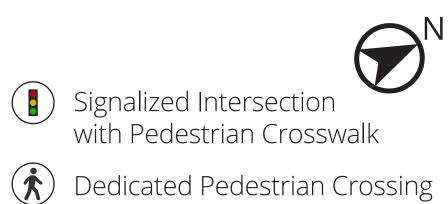






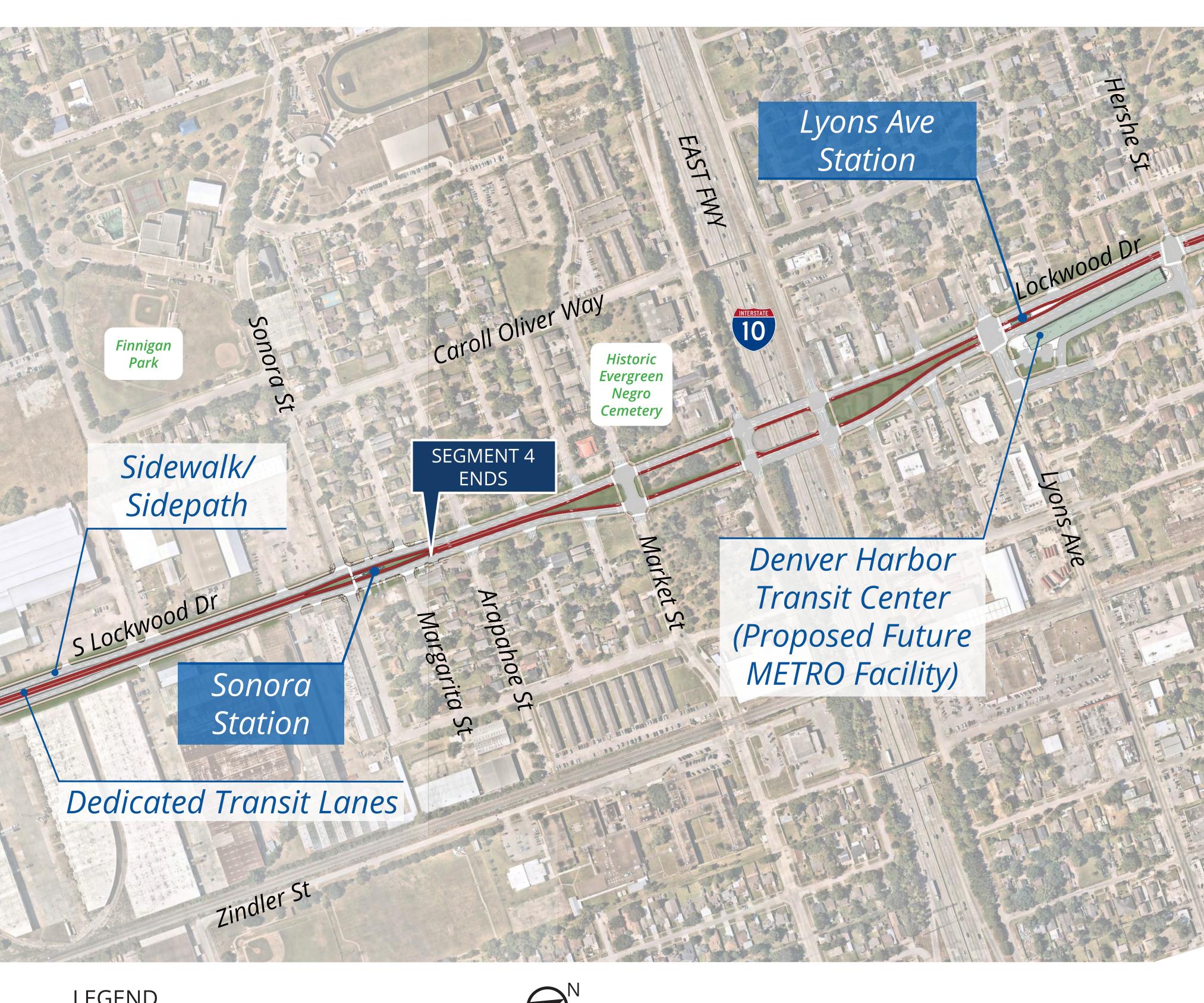


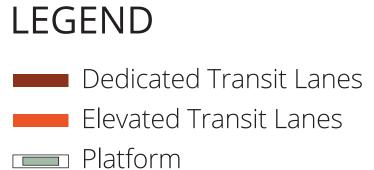
PlatformGeneral Purpose LaneSidewalk/Sidepath



Dedicated Left Turn







General Purpose Lane Sidewalk/Sidepath



Signalized Intersection with Pedestrian Crosswalk

Dedicated Pedestrian Crossing

Dedicated Left Turn





Illustrations for representational purposes only. Preliminary and subject to change based on public input and technical review.



Elevated Transit Lanes Platform

General Purpose Lane Sidewalk/Sidepath

Signalized Intersection with Pedestrian Crosswalk

Dedicated Pedestrian Crossing

Dedicated Left Turn



Illustrations for representational purposes only. Preliminary and subject to change based on public input and technical review.



Dedicated Transit Lanes Elevated Transit Lanes

Platform

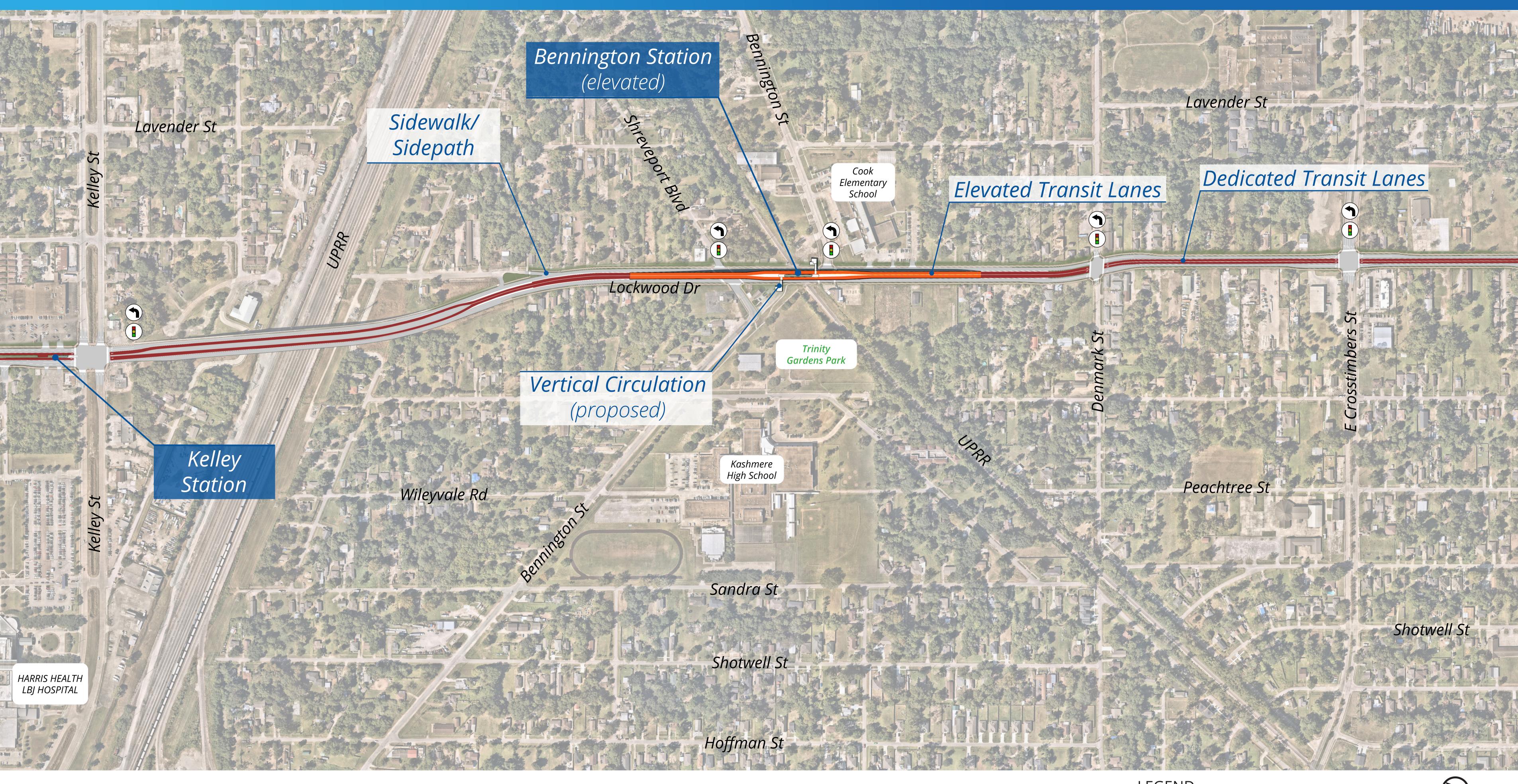
General Purpose Lane Sidewalk/Sidepath

Signalized Intersection with Pedestrian Crosswalk

Dedicated Pedestrian Crossing

Dedicated Left Turn

NOT TO SCALE Community Design Workshops | 2023



Illustrations for representational purposes only. Preliminary and subject to change based on public input and technical review.



LEGEND

Dedicated Transit LanesElevated Transit Lanes

Platform

General Purpose Lane
Sidewalk/Sidepath

Signalized Intersection with Pedestrian Crosswalk

Dedicated Pedestrian Crossing

Dedicated Pedestrian Cro

Dedicated Left Turn

NOT TO SCALE
Community Design Workshops | 2023





Dedicated Transit Lanes

Elevated Transit Lanes

Platform

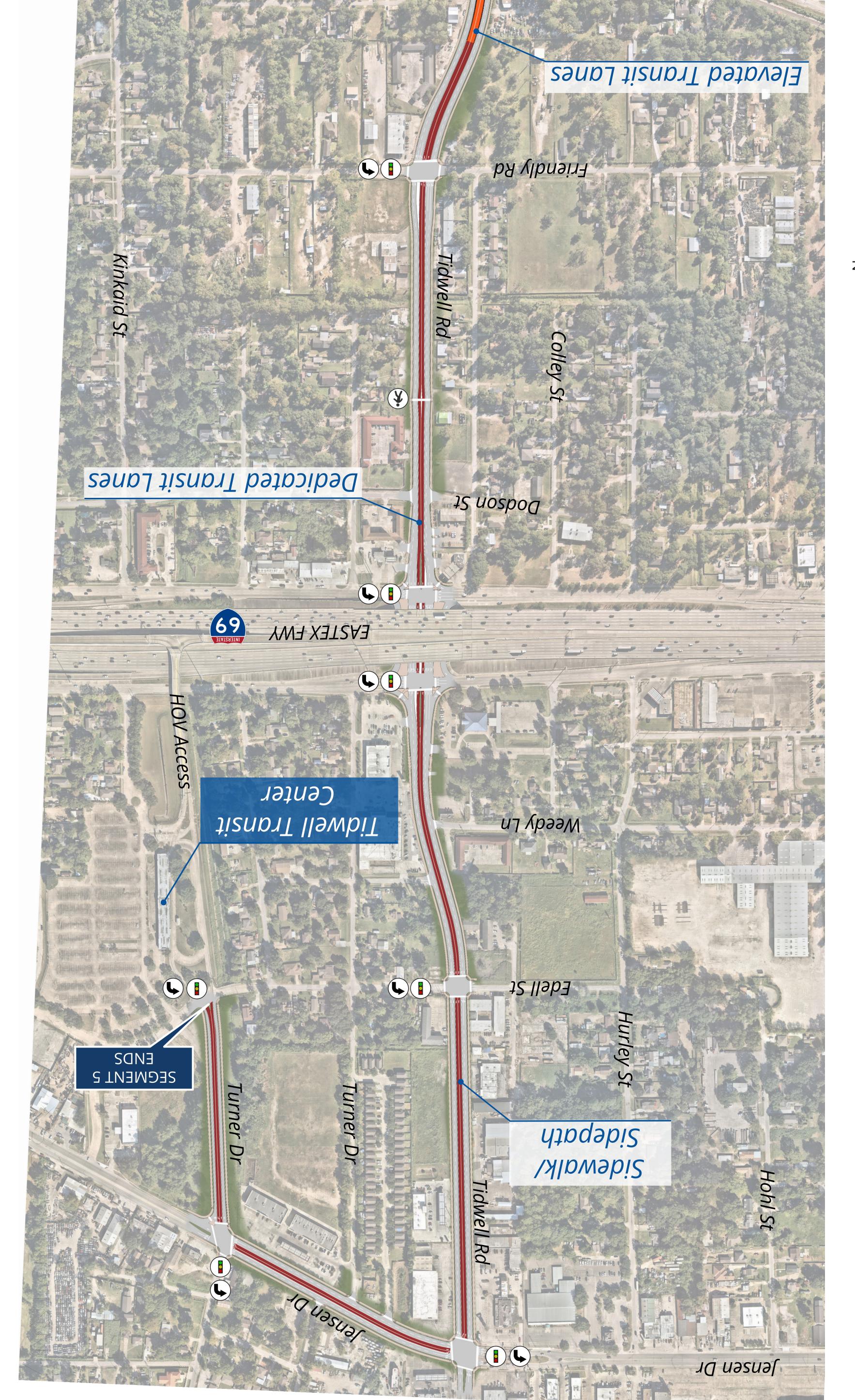
Signalized Intersection with Pedestrian Crosswalk

Dedicated Left Turn

Dedicated Pedestrian Crossing

SECNEIL 2

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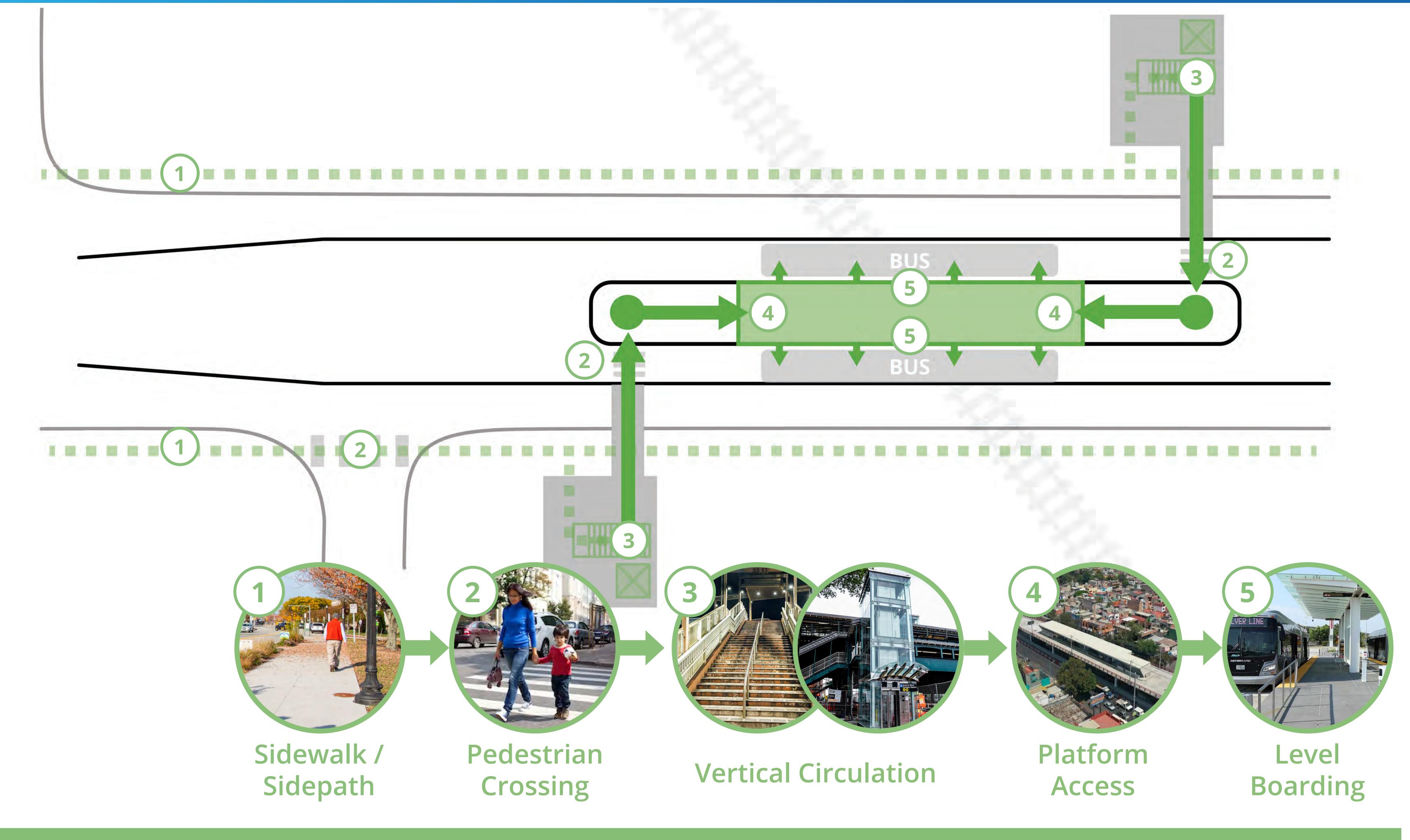


TYPICAL AREAS



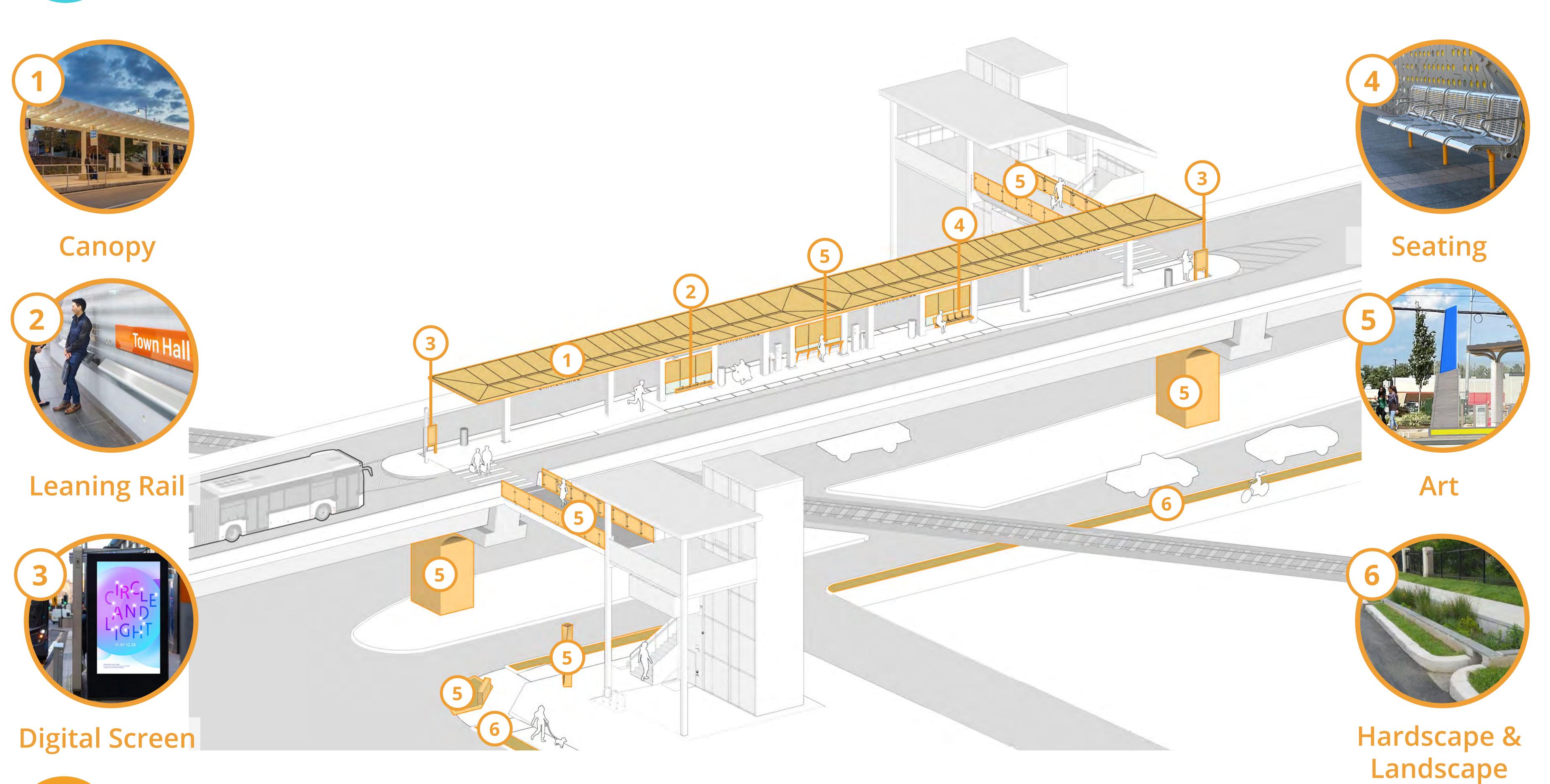
STATION 3

ELEVATED PLATFORM STATION (PERIMETER VERTICAL ACCESS)







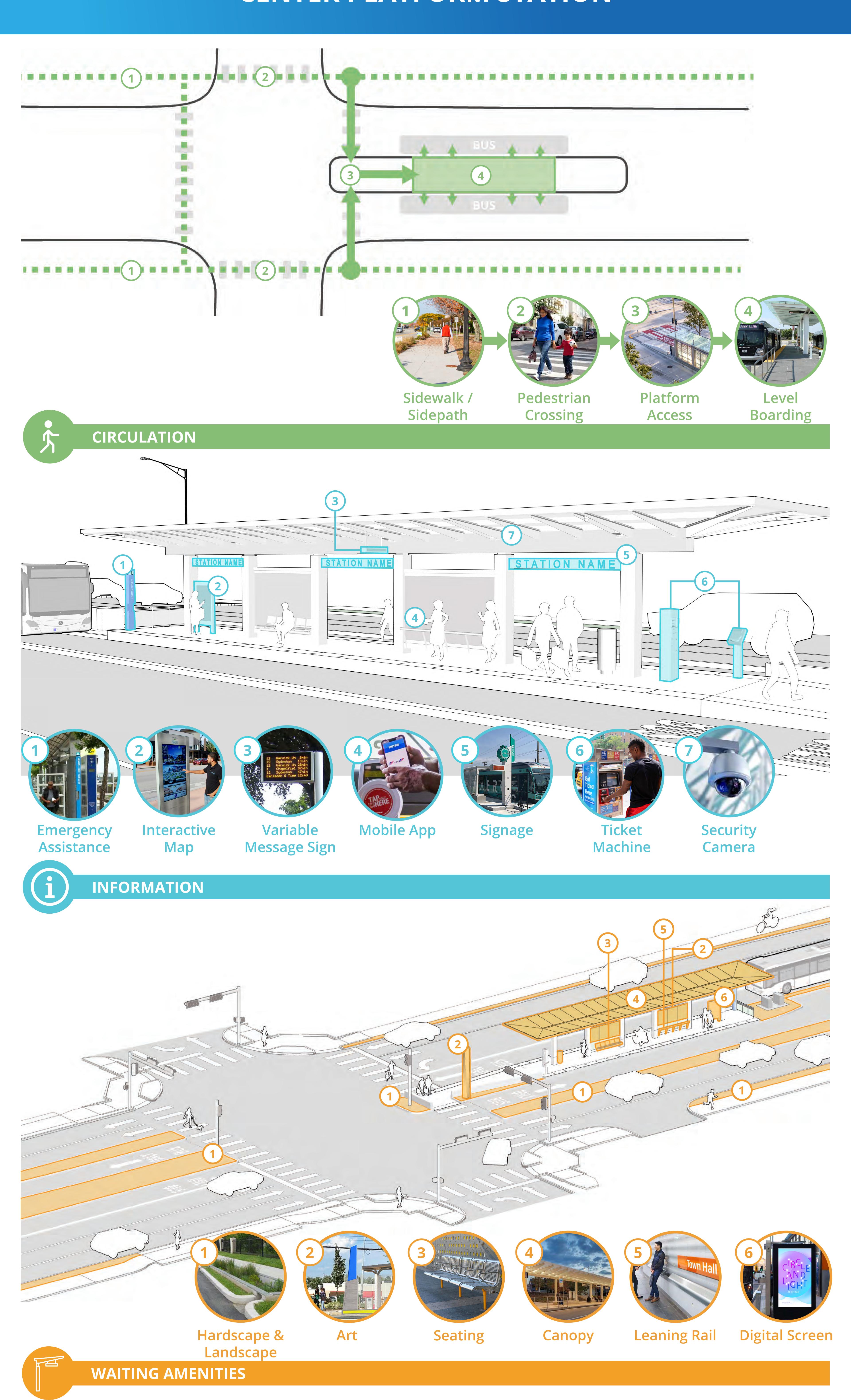




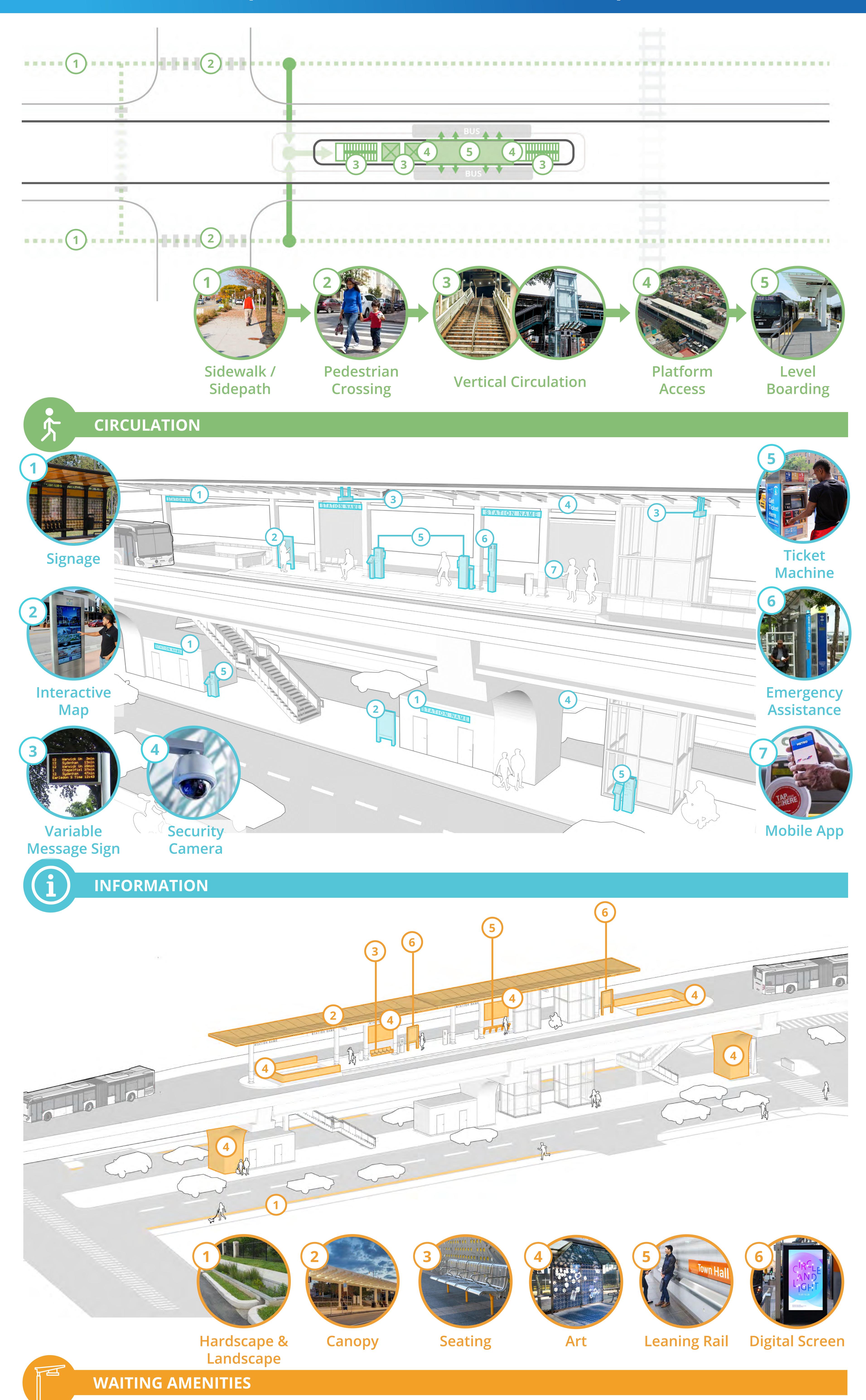




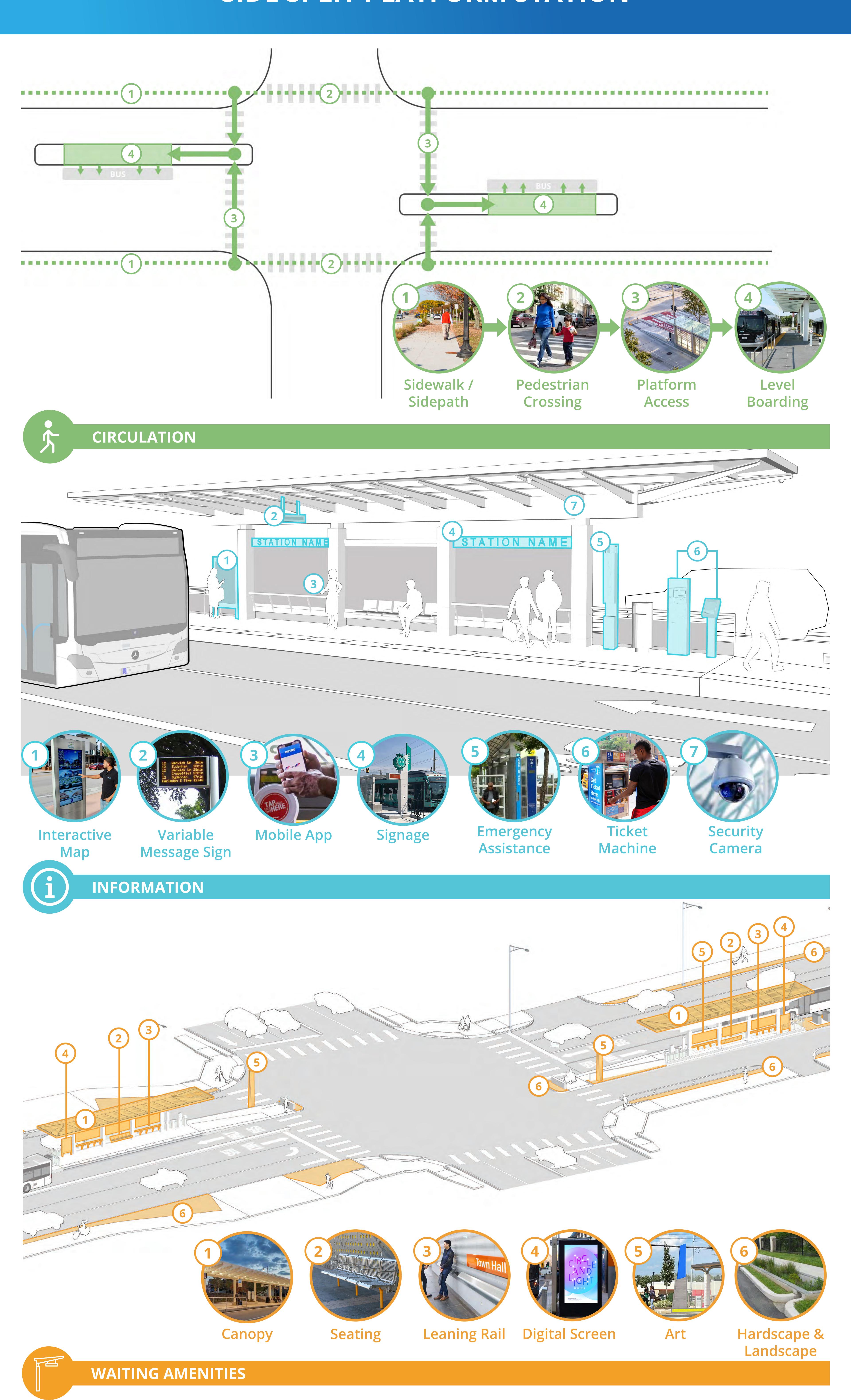
CENTER PLATFORM STATION



ELEVATED PLATFORM STATION (CENTRAL VERTICAL ACCESS)

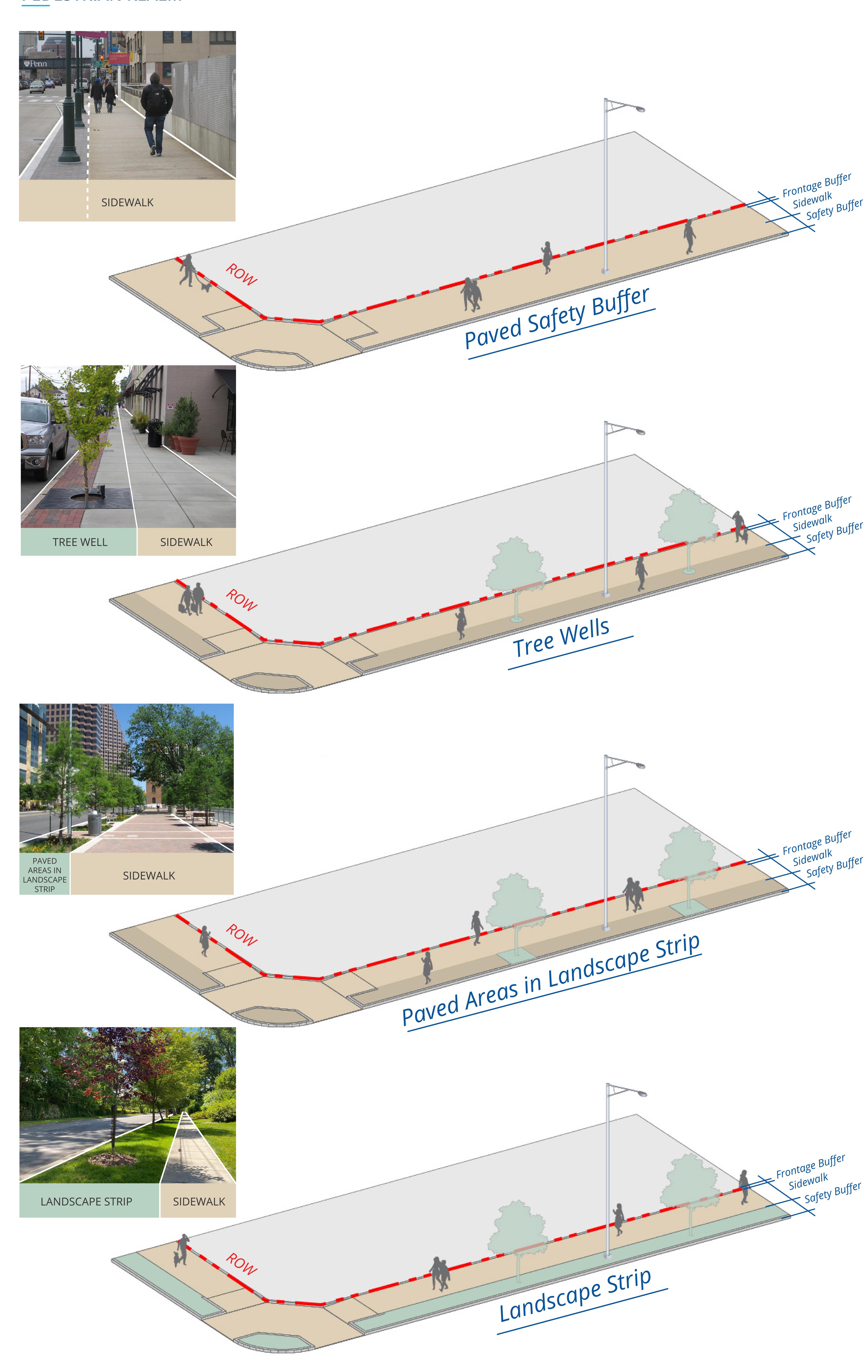


SIDE SPLIT PLATFORM STATION



PEDESTRIAN ENVIRONMENT

PEDESTRIAN REALM



METRO

PEDESTRIAN ENVIRONMENT

PEDESTRIAN REALM

City of Houston *Users' Guide for Walkable Places* and *Transit-Oriented Development (Walkable Places)* - September 2020, indicates Pedestrian Realm as a Key Element and defines it as the area between the back-of-curb (BOC), or the edge of a streets pavement, and the ground floor building facade. It includes and unobstructed sidewalk for walking and a safety buffer area.

RIGHT-OF-WAY (ROW)

The City of Houston defines ROW as any public thoroughfare such as a street or road that typically includes travel lanes, median, utilities (poles, lighting), and may also include a safety buffer, sidewalk, other hardscape and landscape.

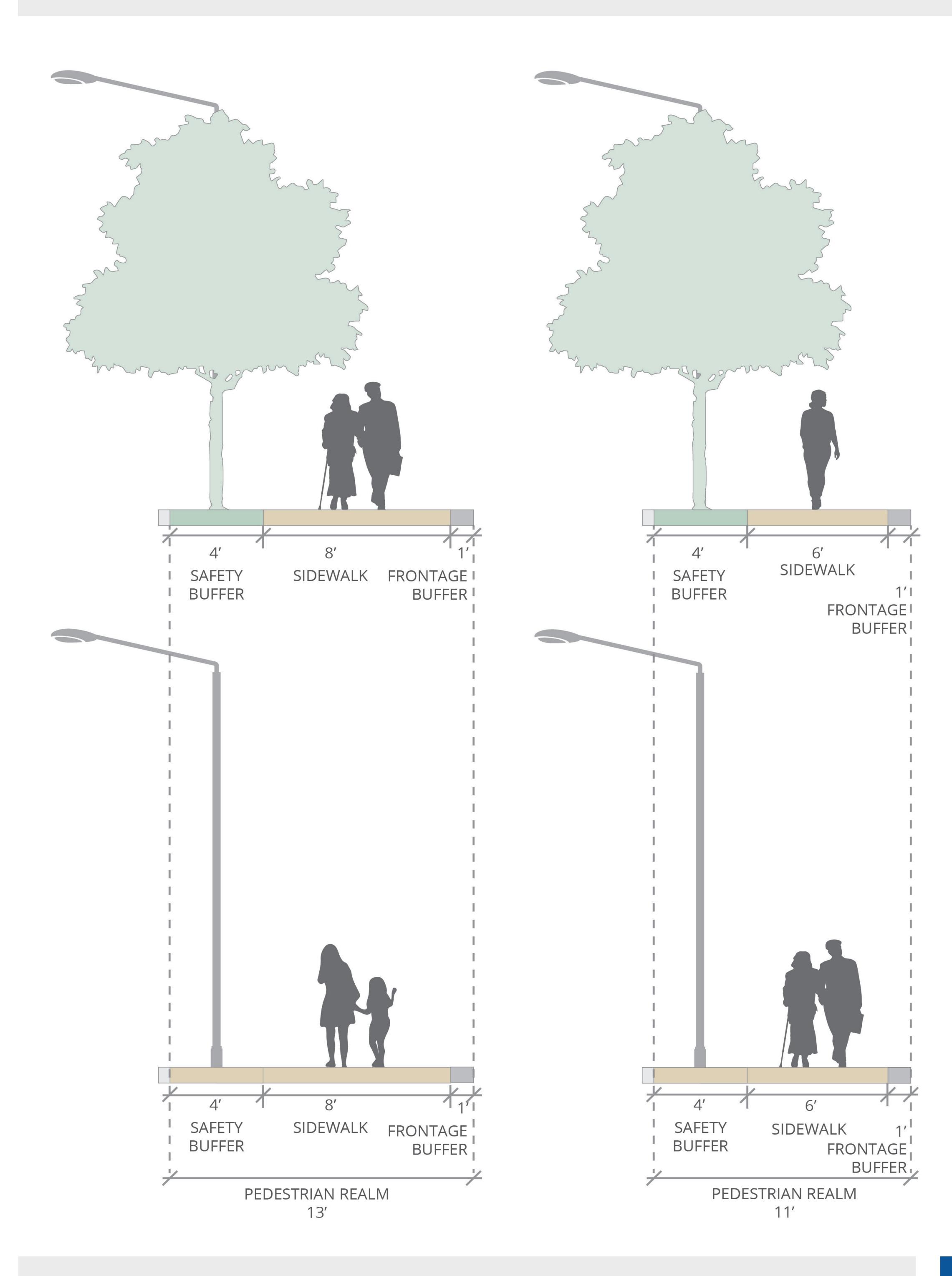
SAFETY BUFFER

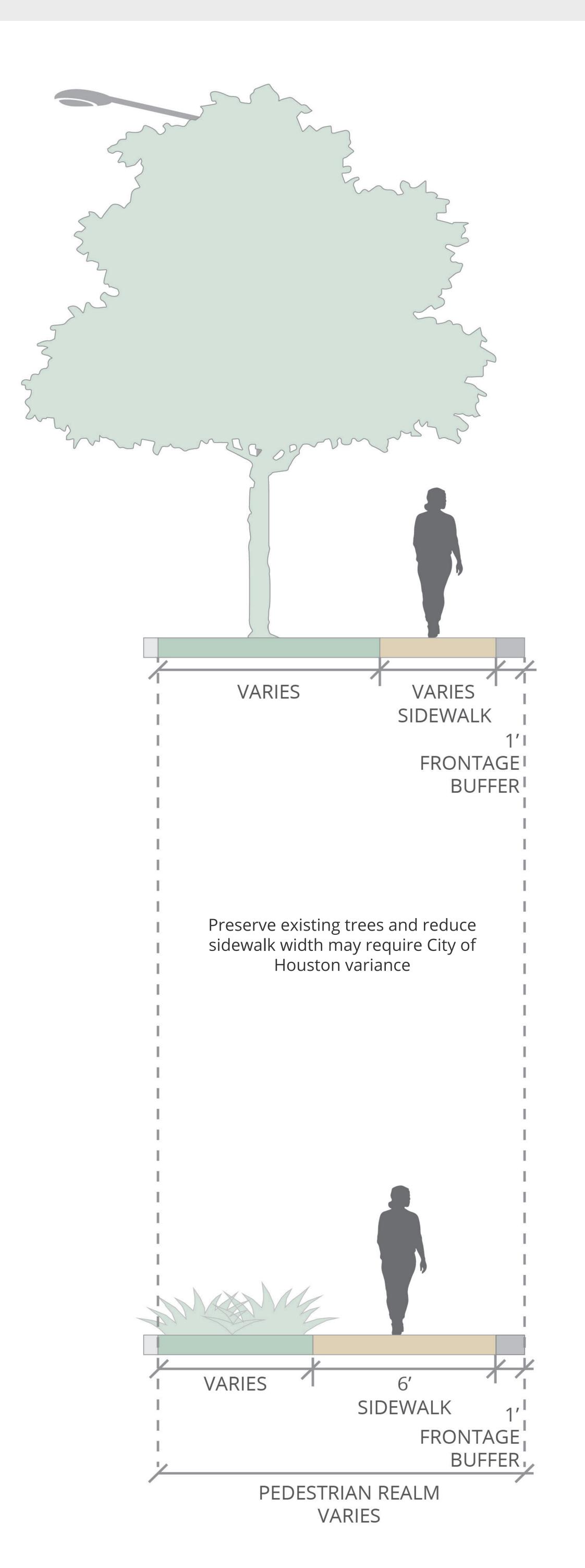
Also indicated as a Key Element, Walkable Places defines the safety buffer as the area that shields the sidewalk from the street, and can contain a combination of landscaping, utilities and sidewalk amenities such as street furniture and decorative plantings.

LANDSCAPING

Landscape is an important element within the pedestrian realm, especially in the safety buffer. It provides important shade, storm water management and protection from automobiles. Installed street trees within the Pedestrian Realm must be chosen from an approved list provided by the City of Houston.

The illustrations below show the various ways to accommodate sidewalks and landscape within the ROW for the METRORapid University Corridor inside the pedestrian realm. The images on the opposite board provide a true depiction of these conditions.





PEDESTRIAN REALM DESIGN STANDARDS

The sidewalk must be a continuous surface, free of obstructions or encroachments. Sidewalks must comply with Agency standard details, *Public Right of Way Accessibility Standards (PROWAG)*, *Texas Accessibility Standards, City of Houston Infrastructure Design Manual and American Association of Highway and Transportation Officials (AASHTO)*.

Alternative methods of Sidewalk construction may be used in places where tree preservation is of concern. Alternative materials may be, but are not limited to, decomposed granite and checkered plates. All alternatives shall be coordinated with the City's Urban Forester, as applicable, and approved by the City Engineer.

To minimize right-of-way impacts to adjoining properties, a modification to the pedestrian realm standards is required. Any modification to the pedestrian realm standards will require METRO to seek a variance from the City of Houston.

FRONTAGE BUFFER AND SAFETY BUFFER WIDTH STANDARDS

CLASSIFICATION	OPTIMAL	MINIMUM
Safety Buffer Frontage Buffer	6' or More	4′
	3' or More	1'

MINIMUM SIDEWALK WIDTH STANDARDS

MAJOR THOROUGHFARE		
TOD Street	8'	
All Other Streets	6'	
ALL OTHER PUBLIC STREETS		
TOD Street	6'	
All Others	5′	



LANDSCAPE CONSIDERATIONS

TREE PROTECTION

severely pruned)

City of Houston Required Tree Protection Plan Process includes:

ISA certified arborist, landscape architect and City of Houston Urban Forestry



fund

Step 2 – Tree Protection Analysis

- · Identify trees that warrant removal (because of tree condition)
- · Identify trees that can be protected during construction
- · Identify protection measures (root pruning, fencing, etc)
- Consider design plan changes
- Sidewalk width variance with City of Houston
- Utility relocation
- Identify trees that cannot be protected
- Determine required mitigation requirement
- Maximize replacement planting

Step 5 – Pre-Construction Activities

on METRO owned property

for future use, planting trees

in adjacent open space, and

contributing to a designed tree

- Root and canopy pruning
- Injected with mycorrhizal fungi at least one growing season prior to construction to improve survivability
- Additional watering of trees, as required, with construction activities that disturb the soil

Strict compliance to the

through construction

aerate compacted soil

Specifications

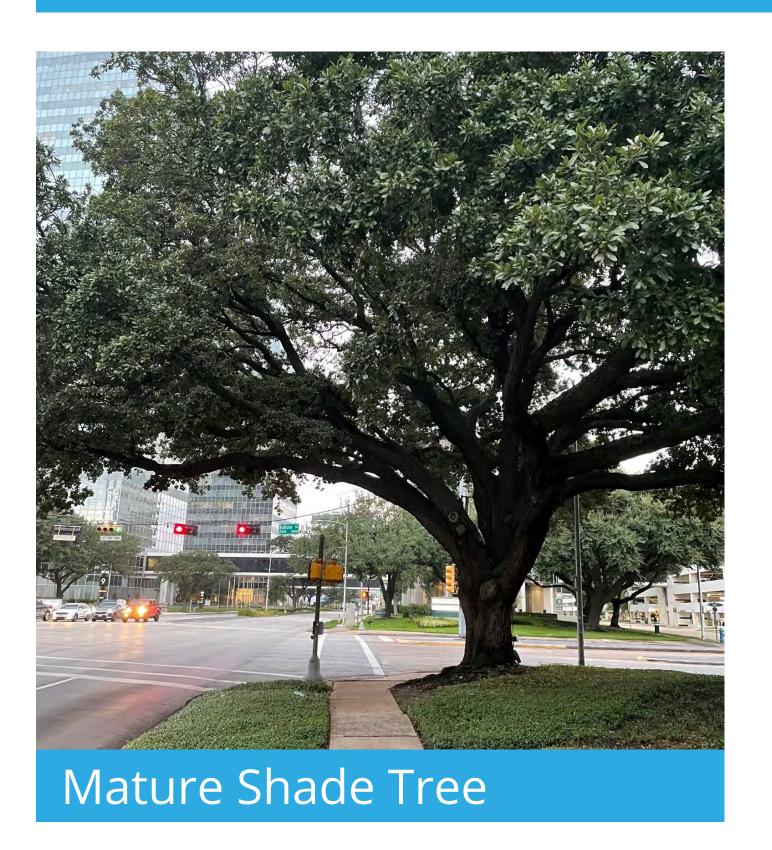
Tree Protection Plans and

Continuous site inspections

Remove contaminated soil and

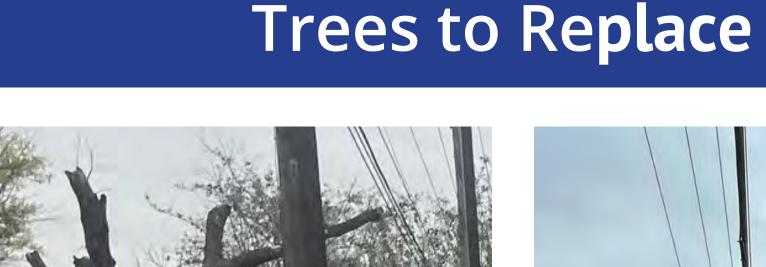
- Step 7 After Construction Maintain the same grade as before construction
- Water stressed trees to help them recover from construction stress

Trees to Preserve

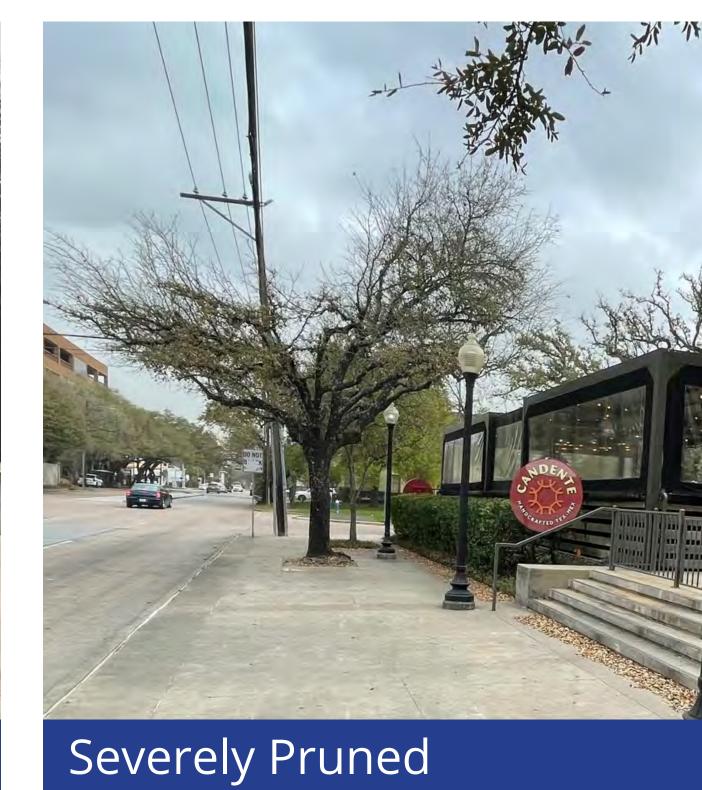












LANDSCAPE PLANTING PLANS

Goal - Work with the community to create a plan that takes into account the unique locations and best tree varieties suited to each location.

City of Houston Tree and Shrub Ordinance

Street Tree Requirements

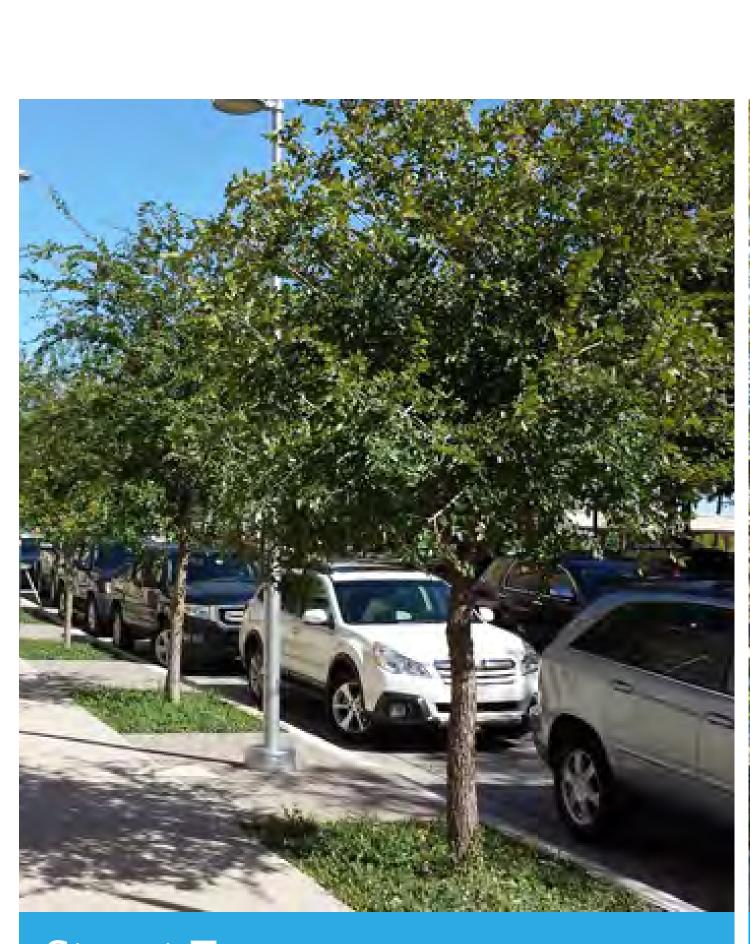
- 1 tree per 30 linear feet of frontage
- 3" caliper size for transit corridor street
- Credit for trees 4" caliper or more
- Credit for preserving existing trees

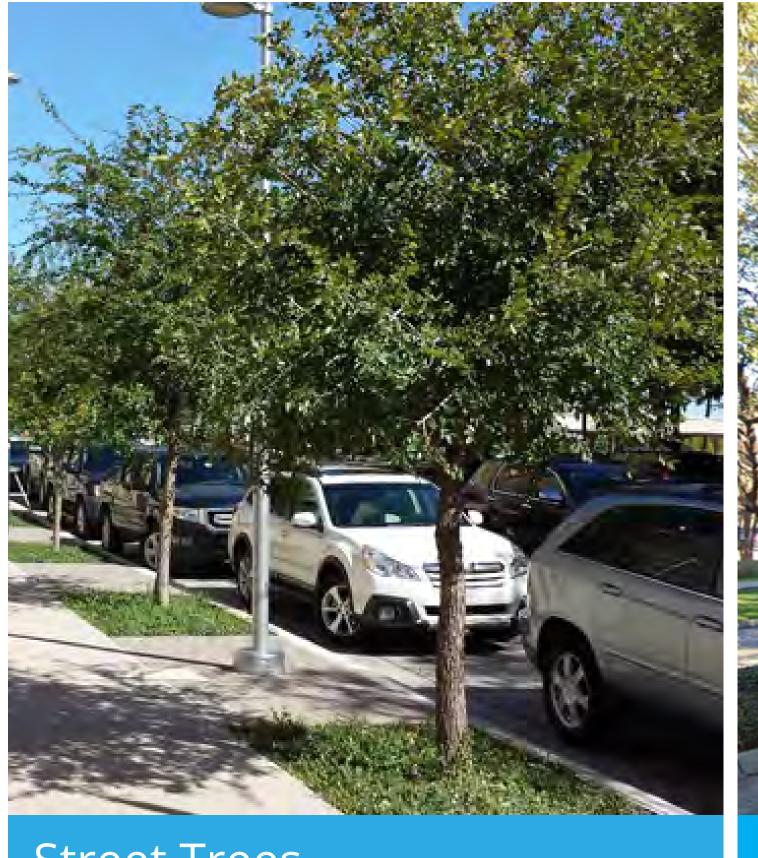
Street Tree Planting

- Spacing no closer than 20 feet
- At least 3 feet from back of curb to center line of tree trunk

Street Tree Planting in Esplanade (Median)

- Not closer than 75 feet to the end of the esplanade
- Not closer than 50 feet from any mid-block opening in the esplanade.
- At least 5 feet from back of curb to center line of tree trunk
- Tree spacing not less than 30 feet

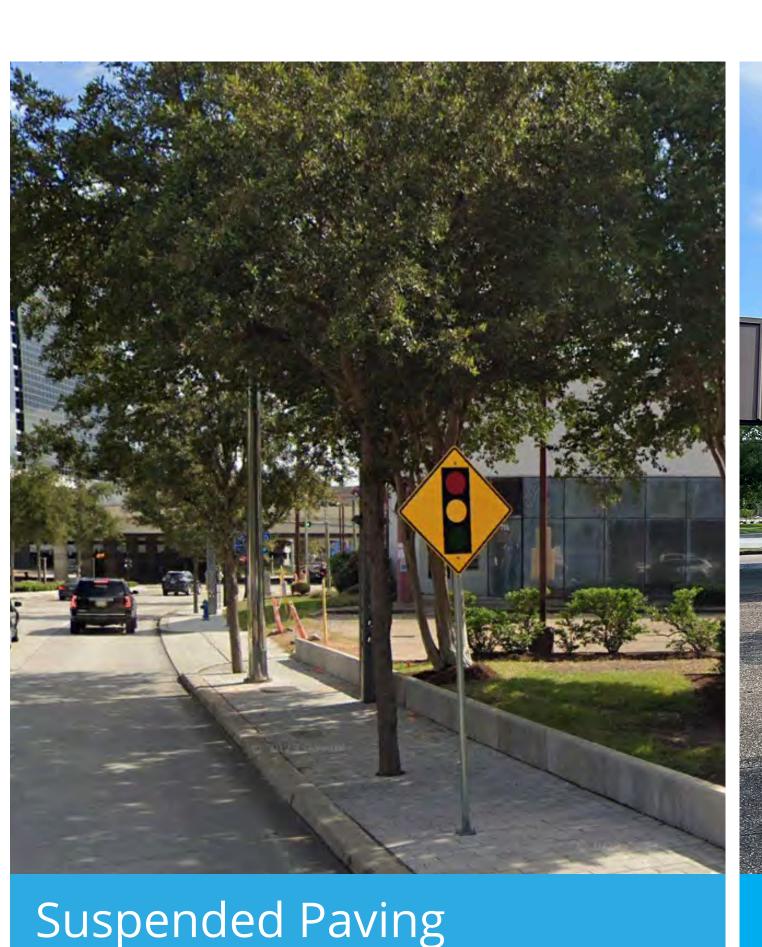






Street Trees

Median Trees







VISUAL PREFERENCE SURVEY



STATION 4

HOW SHOULD WE CELEBRATE HISTORY & CULTURE?

Color and Texture	Community Spaces	Information Displays	Interactive Art
		BACK SIDES & SINGERS GIANT RICE AND	
	TABLETA JULIA DE LA CALLA DEL CALLA DEL CALLA DE LA CA	TALES TO THE REF. FASTER MY MONTH BOTH AND MY MAN AND MY MY MAN AND MY MAN A	
		C AN AIT IVEN BUS TO SECURITY STATES OF THE	



HOW SHOULD WE CELEBRATE HISTORY & CULTURE?

Public Art Architectural Elements Plaques **Community History** Cactus Park Aquatic & Fitness Center

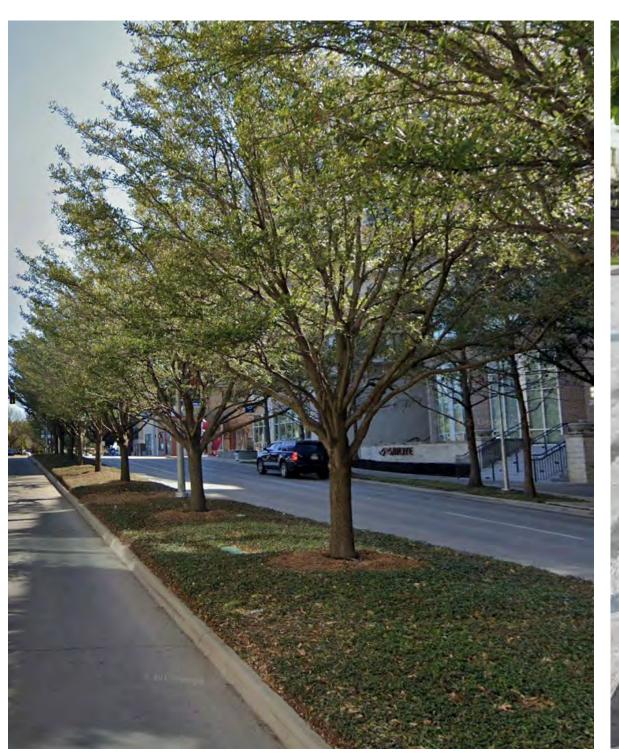


HOW SHOULD WE INTEGRATE LANDSCAPE?

Street Trees

Biofiltration Planter Boxes

Green Screens and Walls

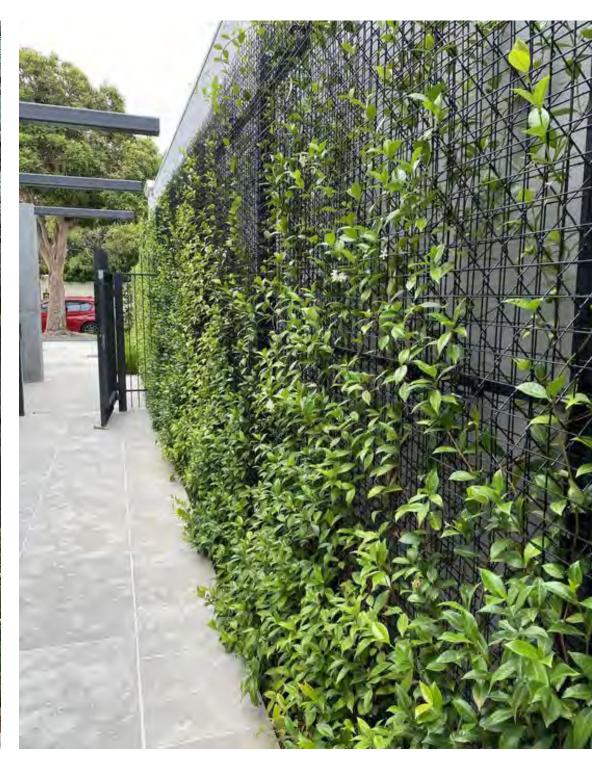


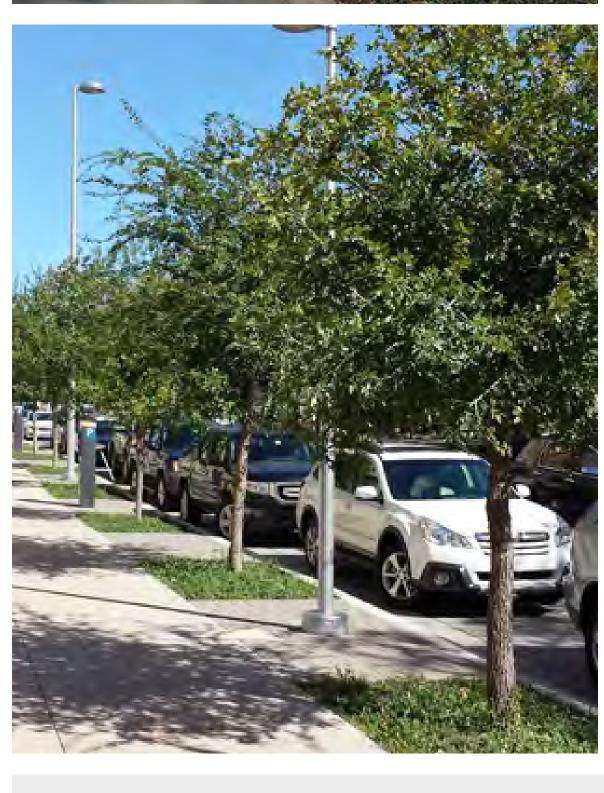






















HOW SHOULD WE INTEGRATE LANDSCAPE?

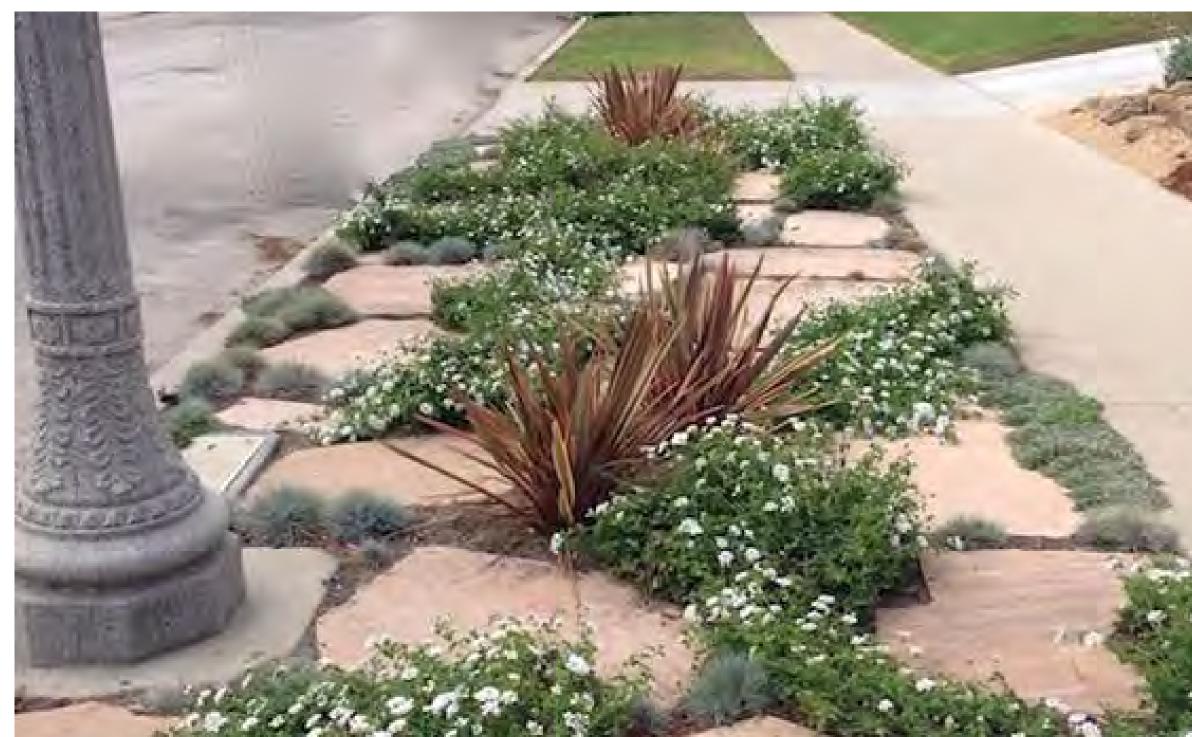
Native Planting

Drought Resistance

Xeriscape







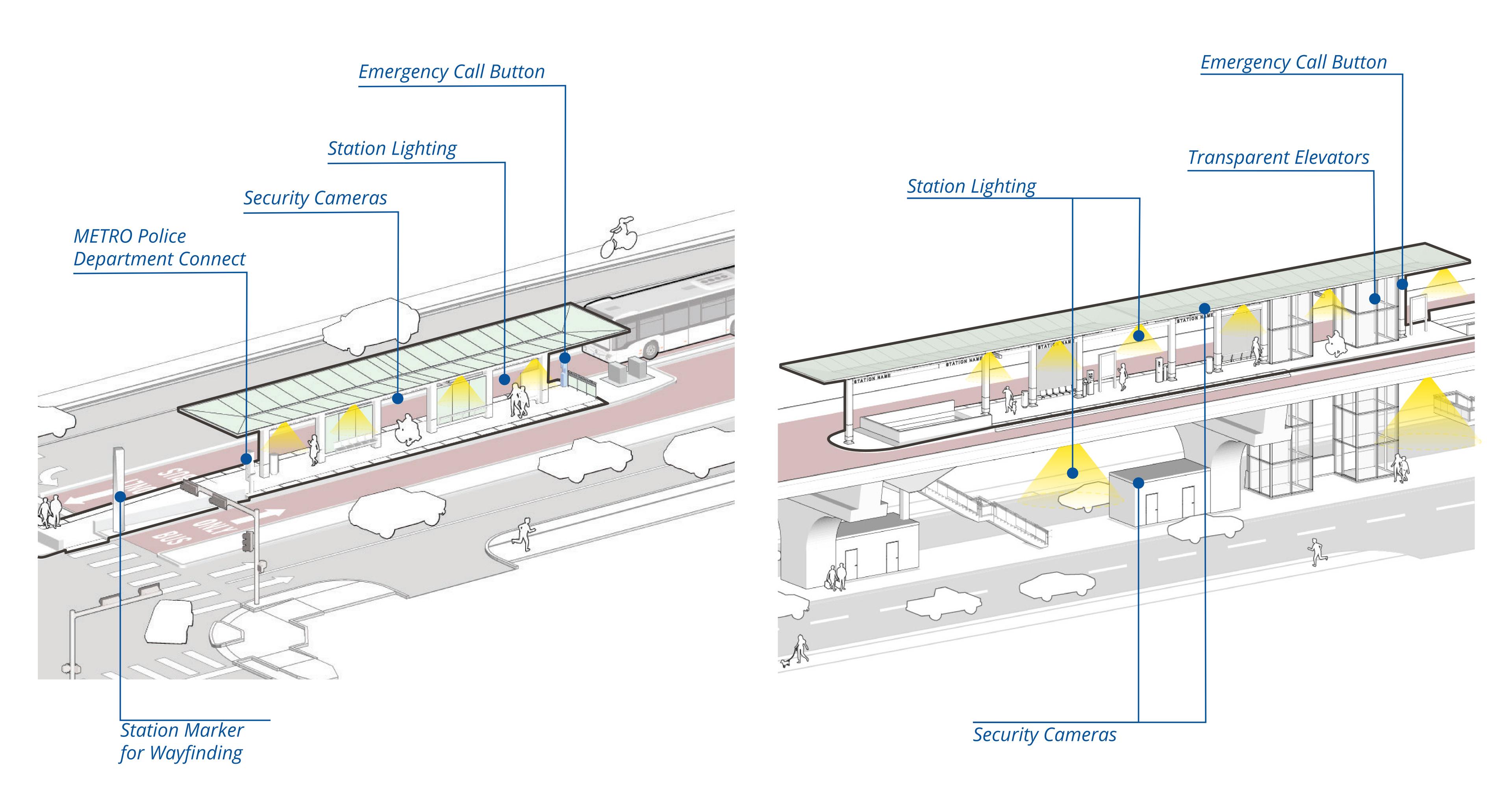








SAFETY & SECURITY



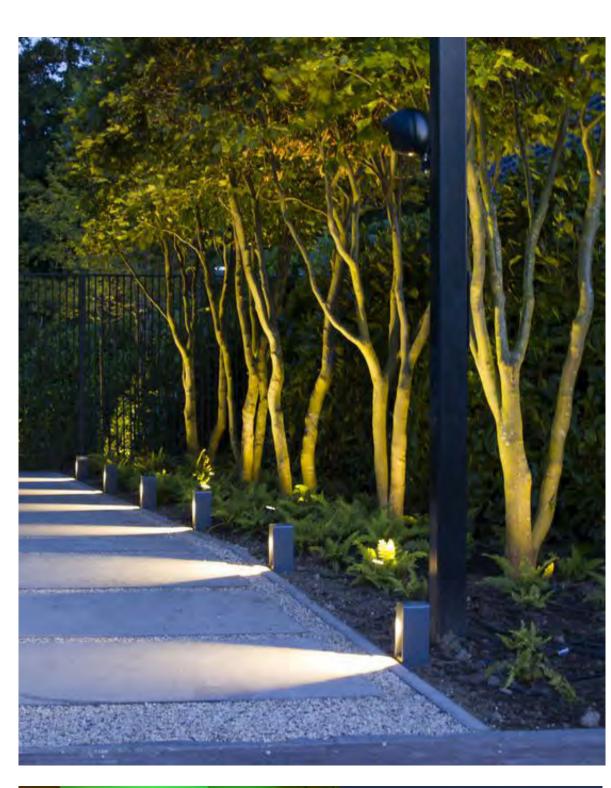


HOW SHOULD WE INTEGRATE ADDITIONAL LIGHTING?

Architectural Accent Lighting Urban / Pedestrian

























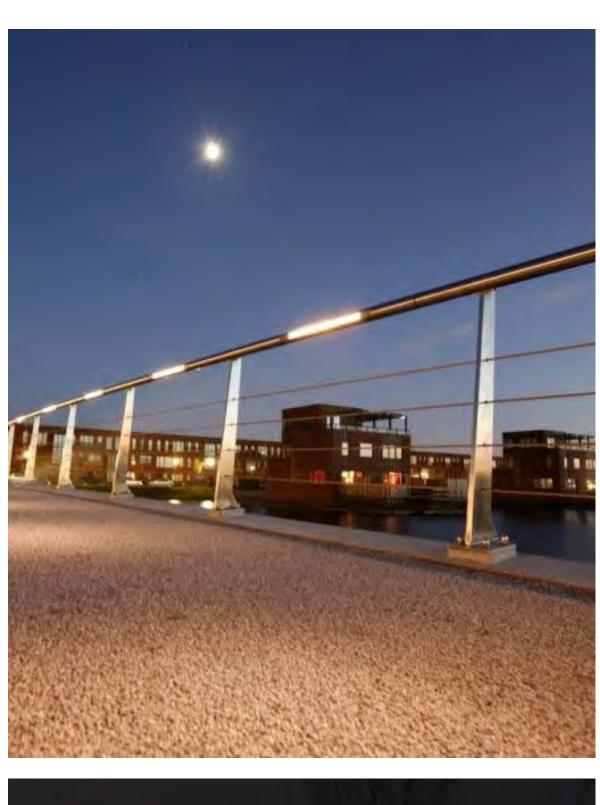
HOW SHOULD WE INTEGRATE ADDITIONAL LIGHTING?

Artistic Railing Wayfinding



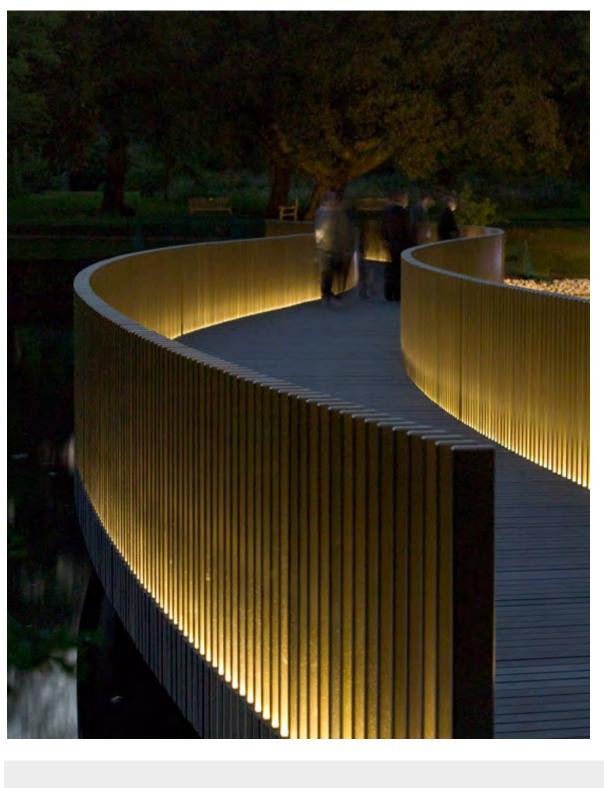






















HOW SHOULD WE ENHANCE PEDESTRIAN CROSSINGS?

Colored Paving Mid-Block Crossing High-Visibility Standard

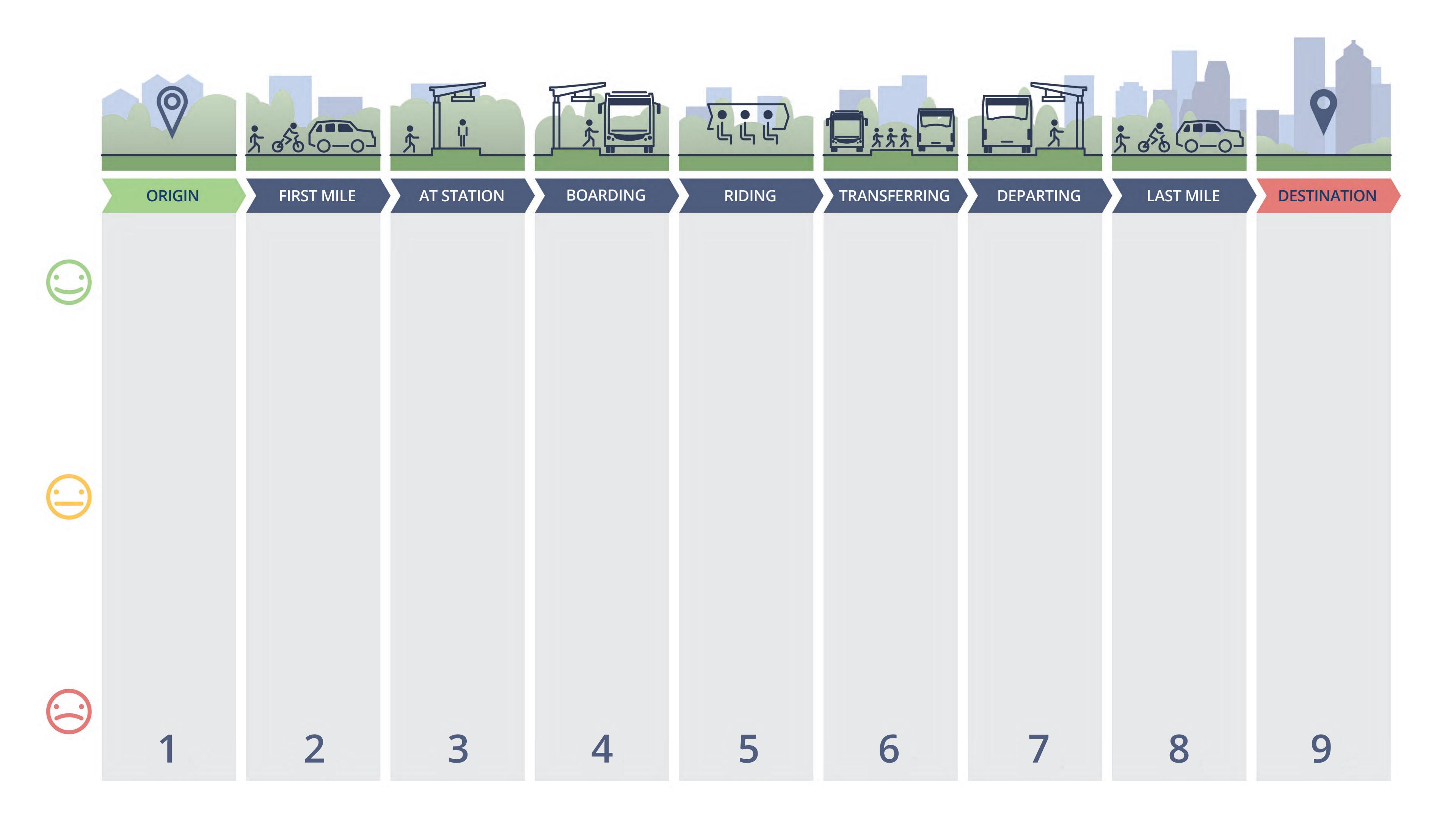


CUSTOMER EXPERIENCE JOURNEY



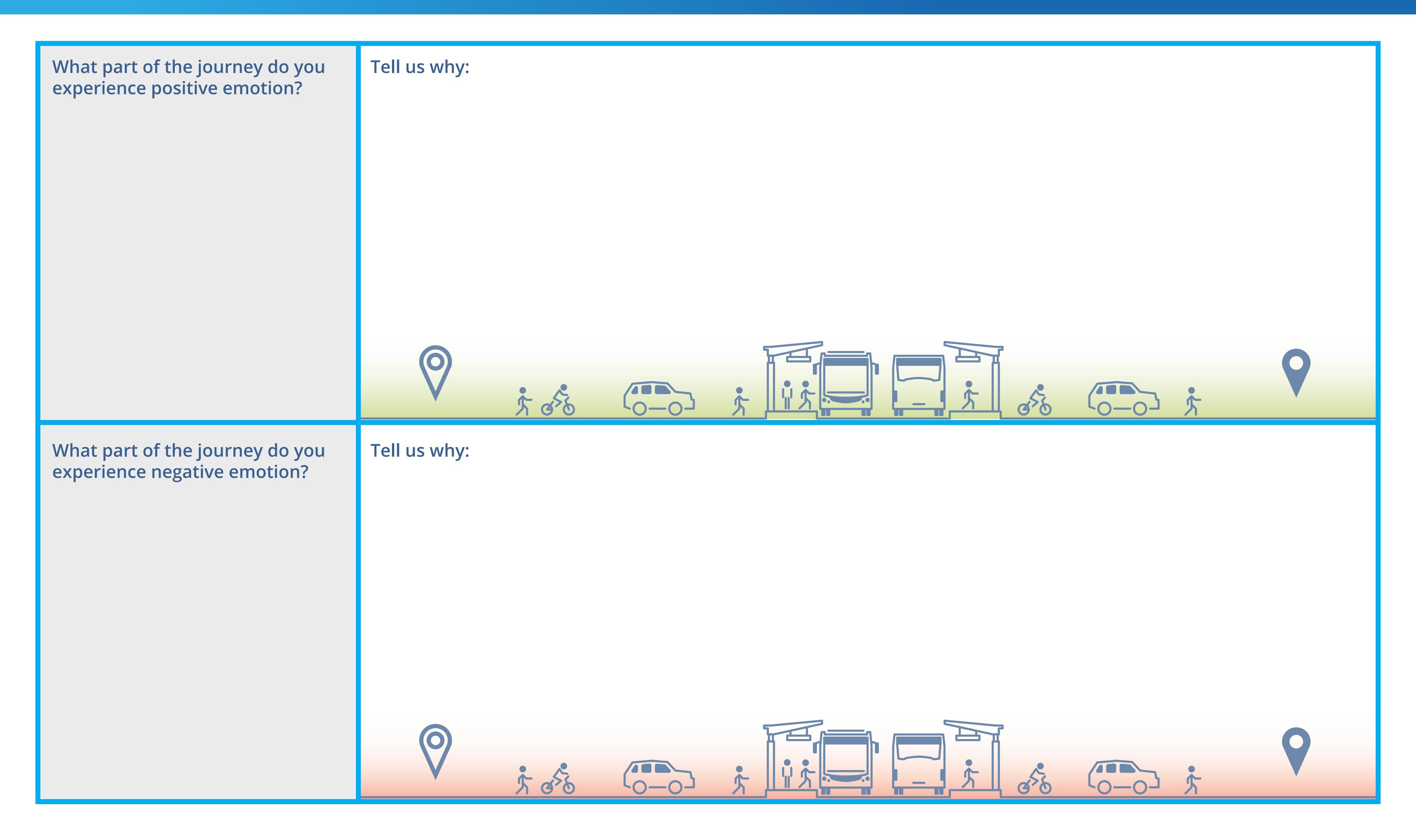
STATION 5

HOW DO YOU FEEL ABOUT YOUR JOURNEY?





HOW DO YOU FEEL ABOUT YOUR JOURNEY?



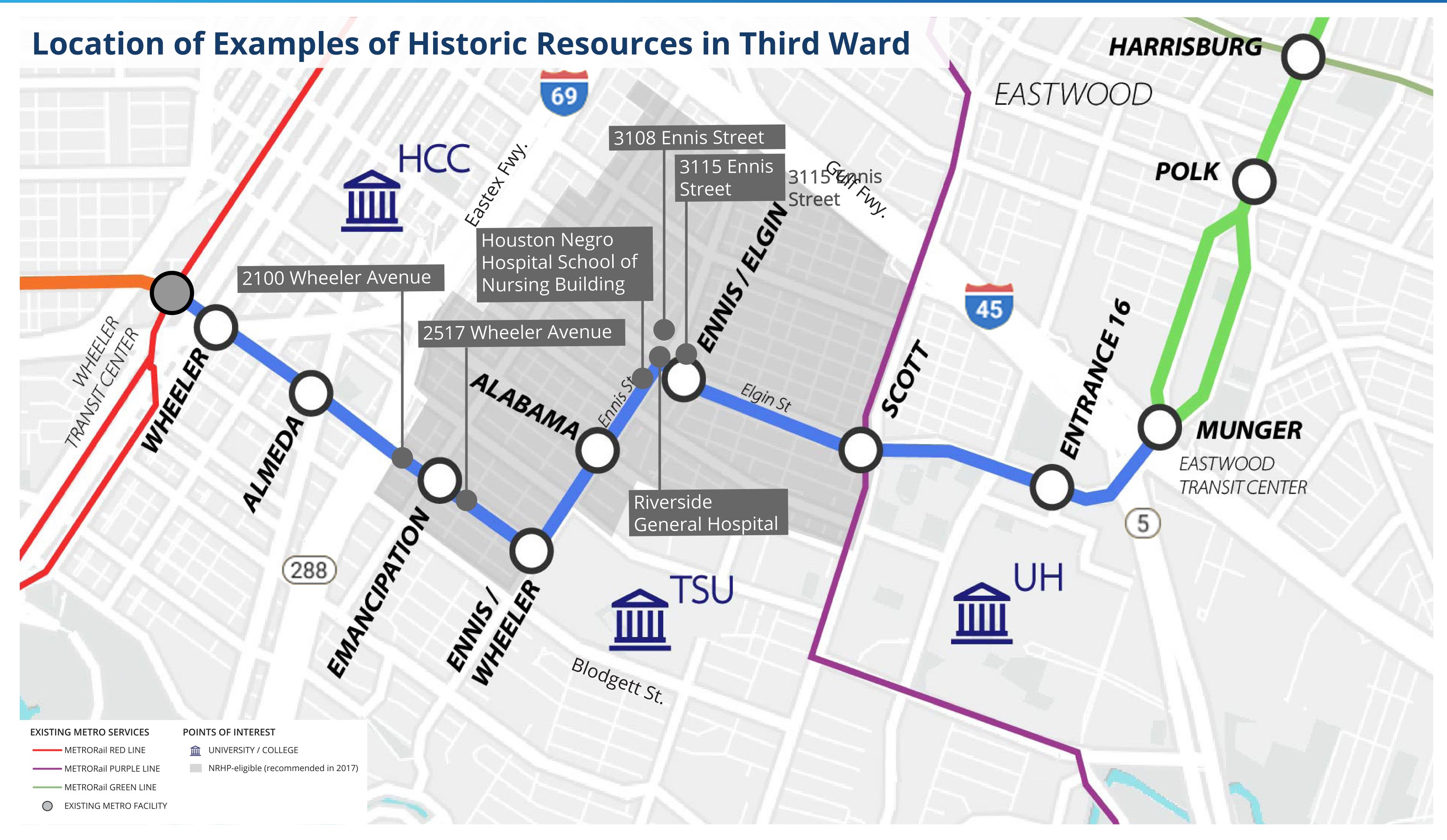


SEGMENT SPECIFIC INFORMATION



STATION 6

THIRD WARD (SEGMENT 3)







THIRD WARD (SEGMENT 3)

Examples of Historic Resources in National Register of Historic Places Eligible (NRHP)

Third Ward Historic District

Listed



Riverside General Hospital (formerly called the Houston Negro Hospital)

NRHP listed in 1982 under Criterion A in the area of Ethnic Heritage – Black, Social History Contributing to the NRHP eligible Third Ward Historic District.



The Houston Negro Hospital School of Nursing

NRHP listed in 1982 under Criterion A in the area of Ethnic Heritage – Black, Social History and Criterion C in the area of Design/Architecture, Contributing to the NRHP eligible Third Ward Historic District.

Illustrations for representational purposes only. Preliminary and subject to change based on public input and technical review.

Eligible



2100 Wheeler Avenue

NRHP eligible Third Ward Historic District.

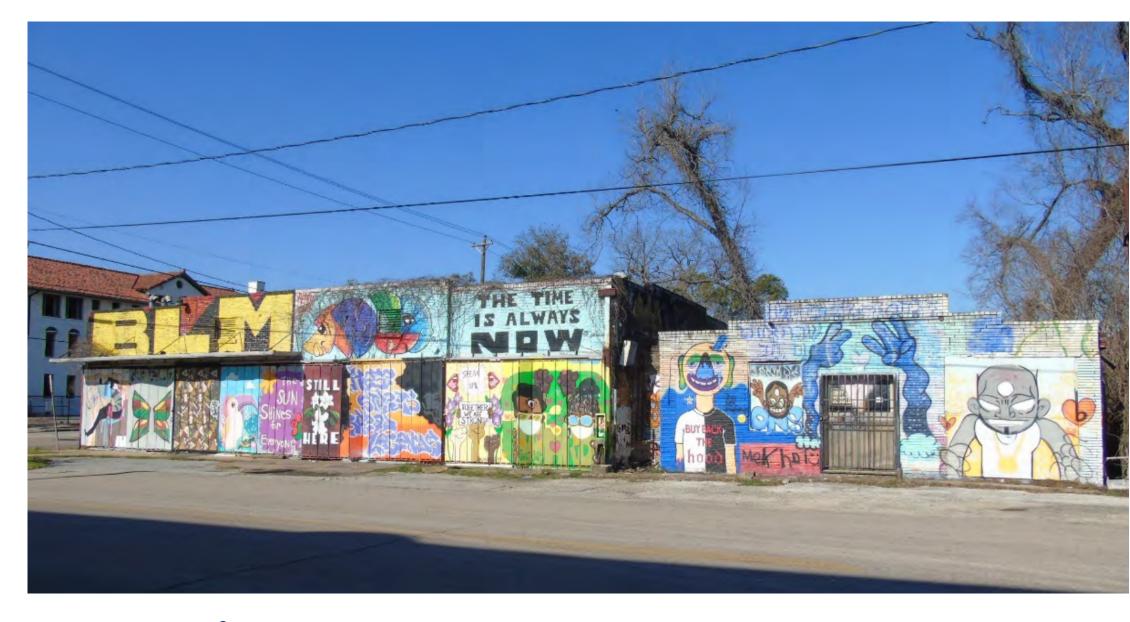


2517 Wheeler Avenue

NRHP eligible Third Ward Historic District.

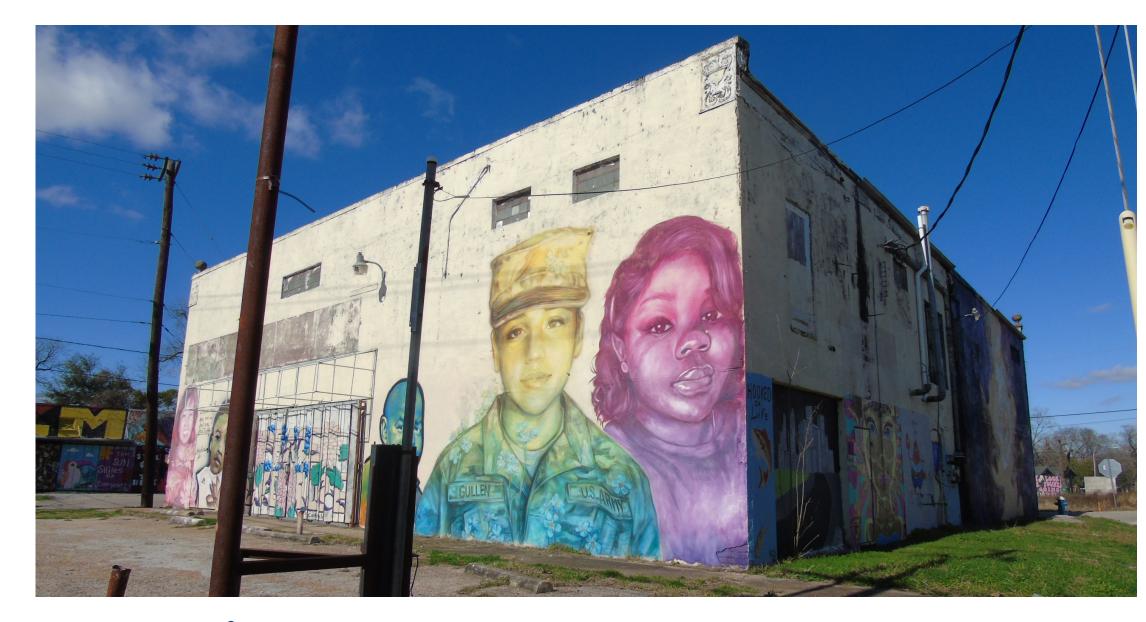


Contributing



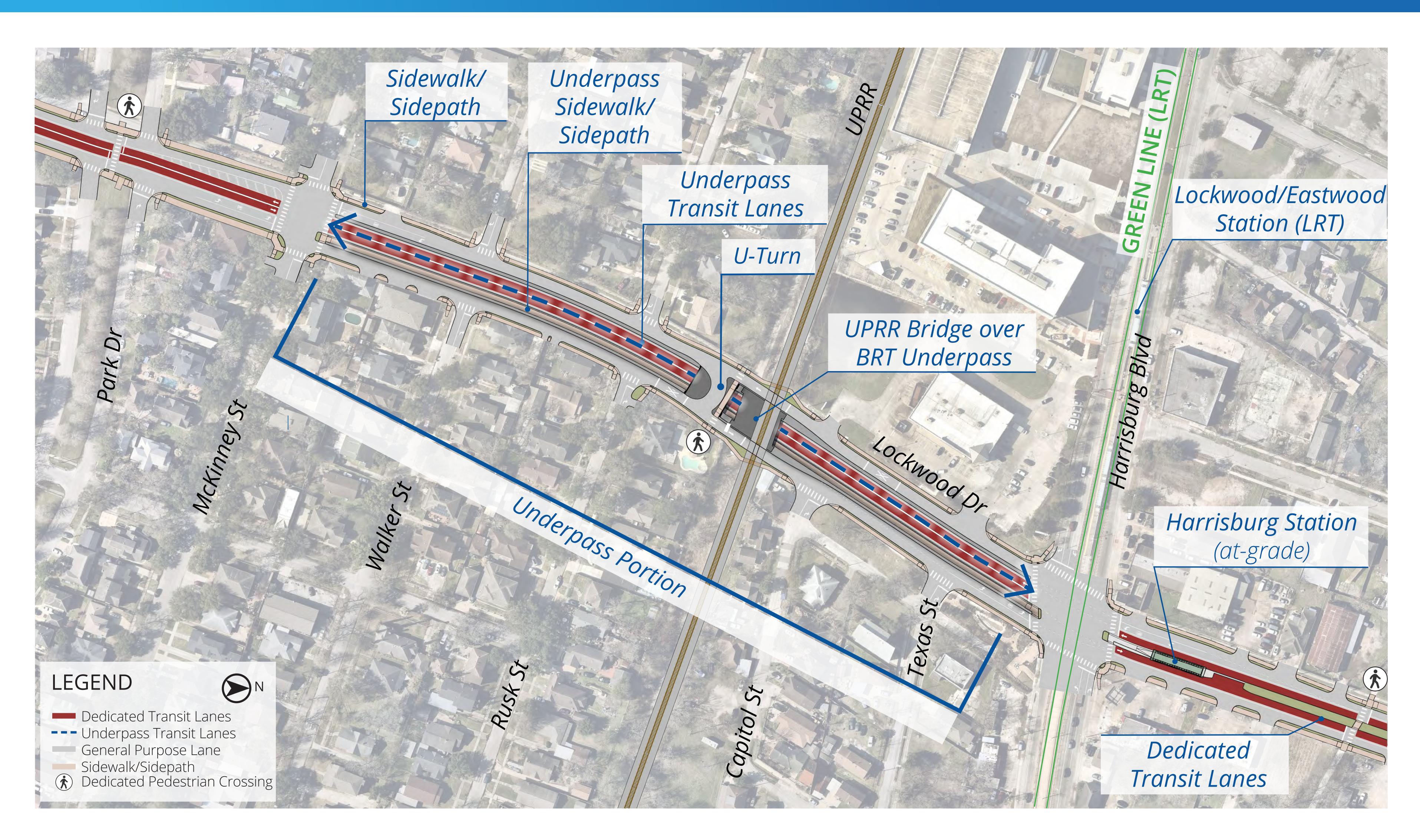
3108 Ennis Street

The artwork is contributing to the historic district and represents the African American ethnicity and composition of the community.



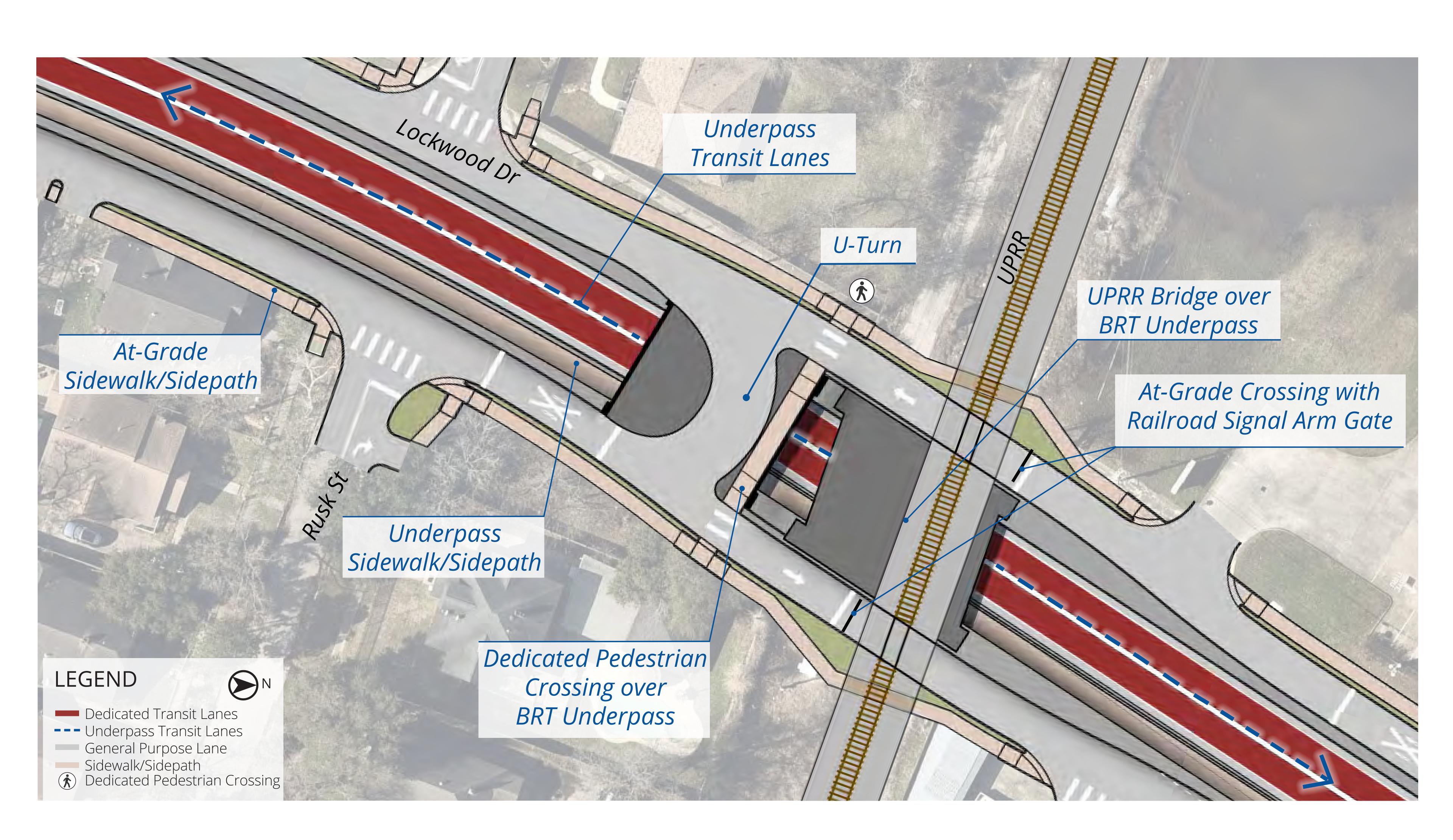
3115 Ennis Street

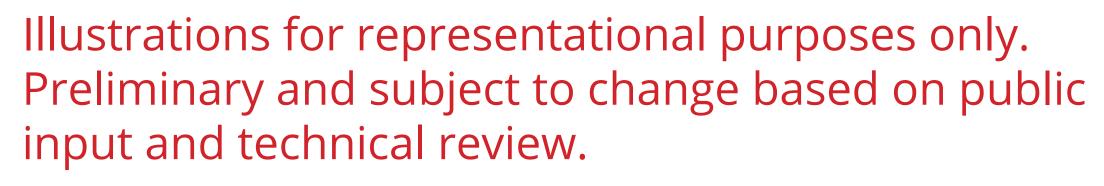
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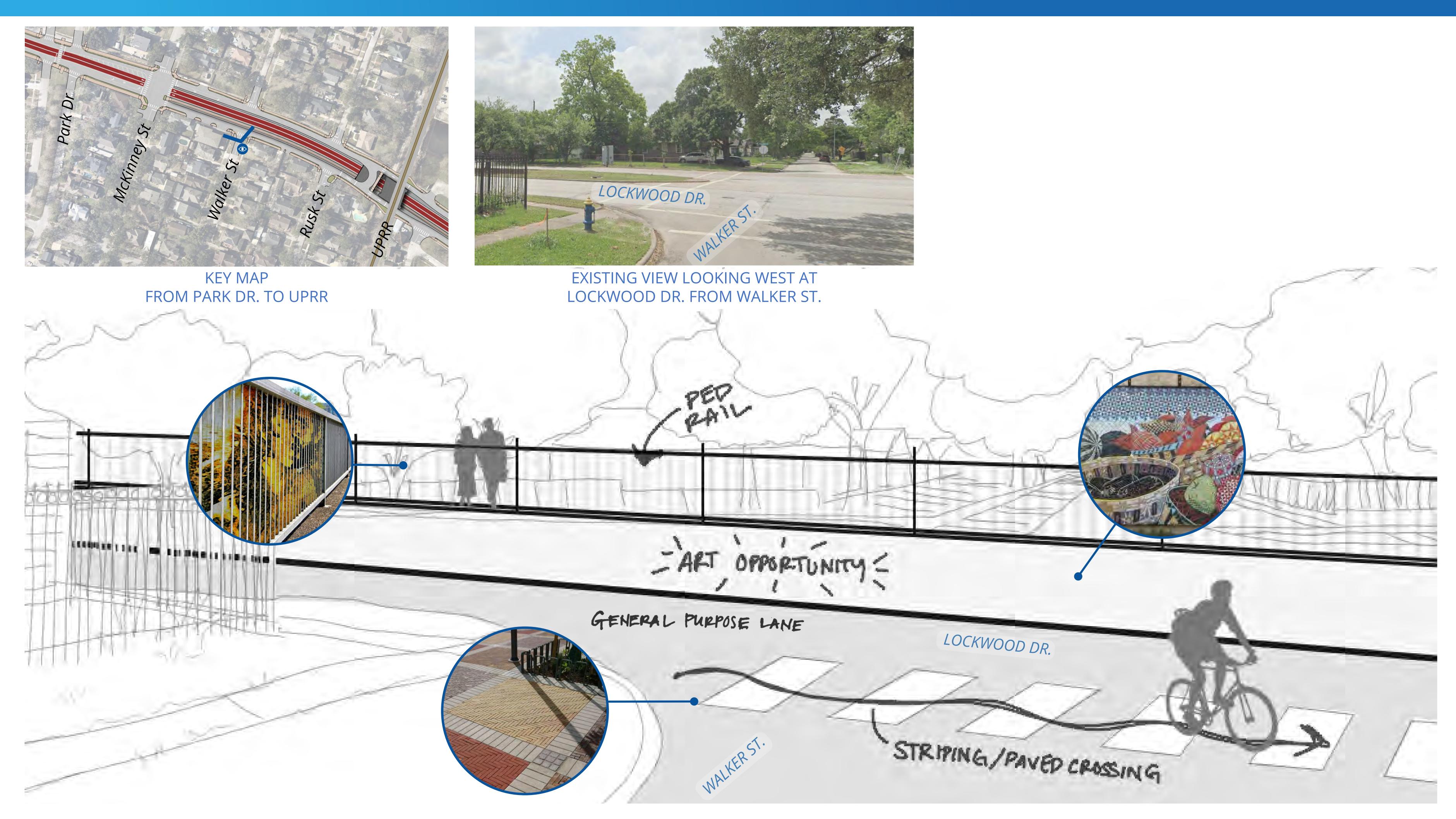




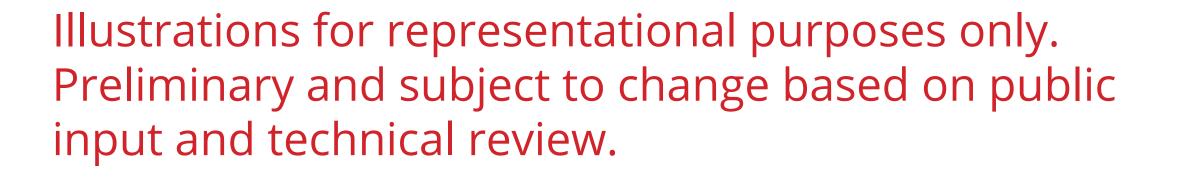




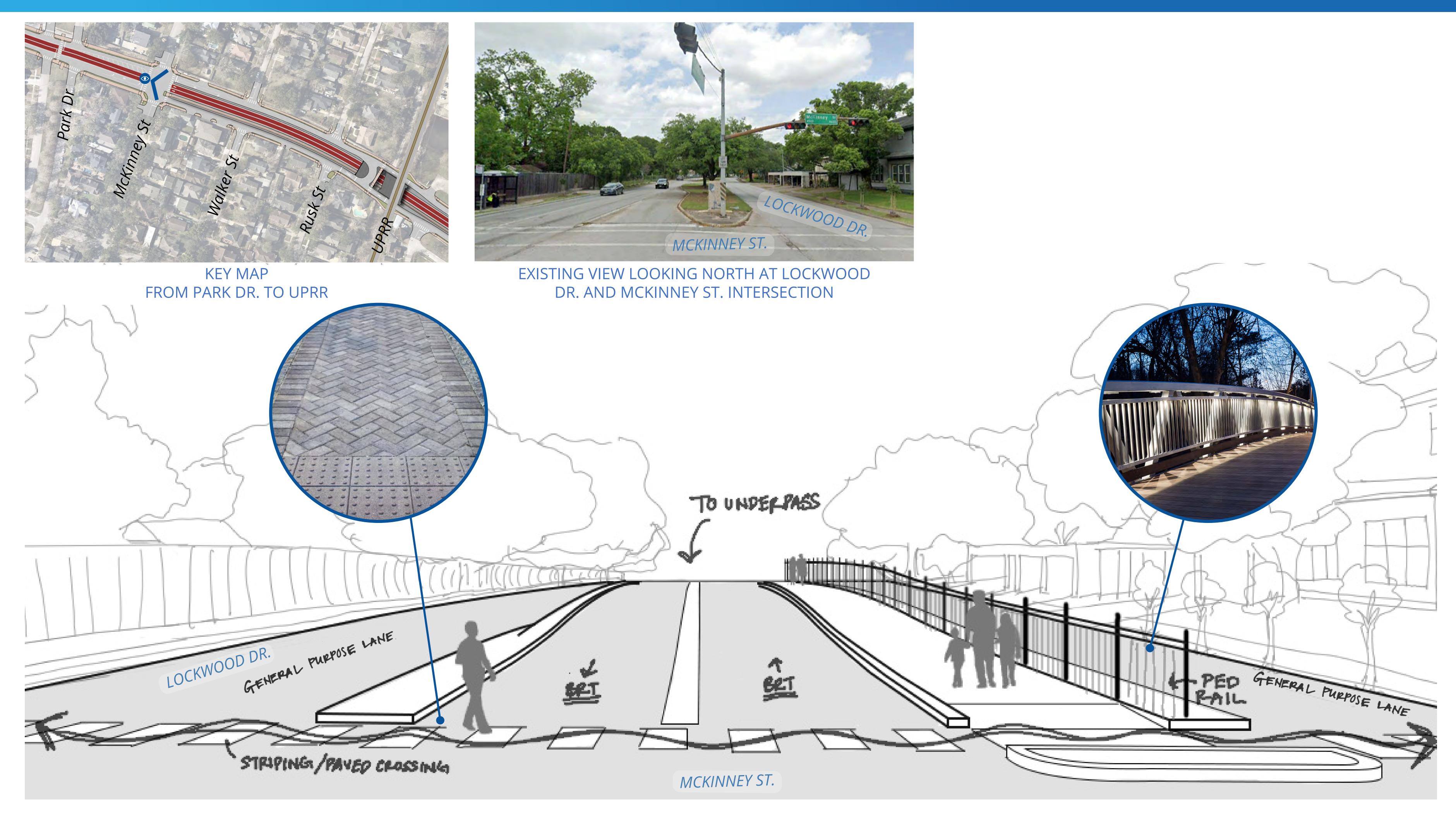




PROPOSED VIEW LOOKING WEST AT LOCKWOOD DR. FROM WALKER ST.



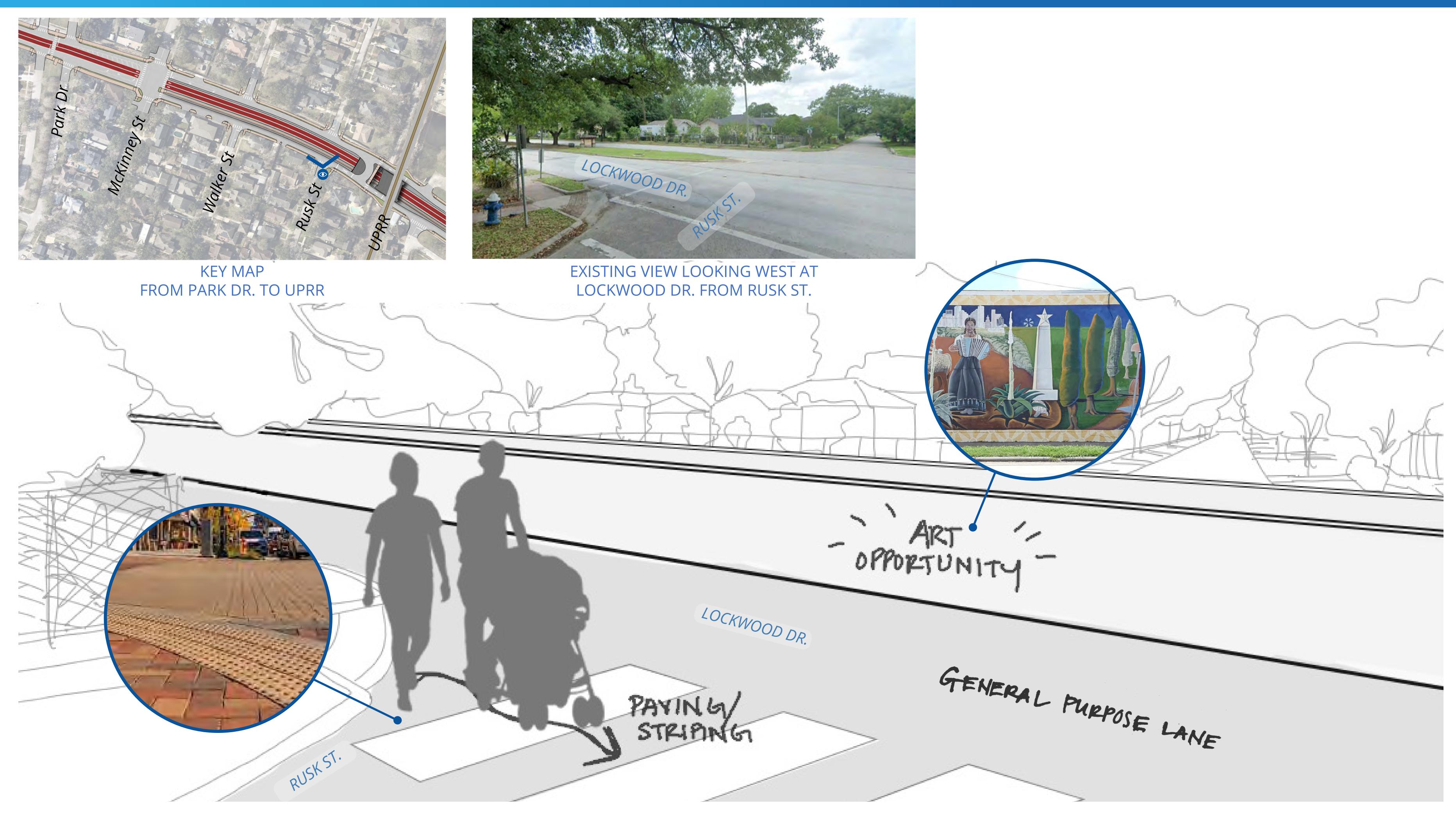




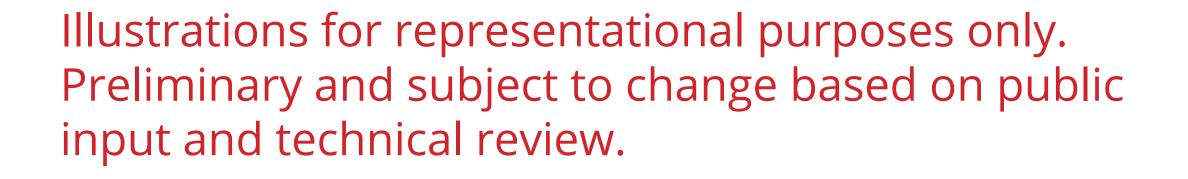
PROPOSED VIEW LOOKING NORTH ON LOCKWOOD DR. AT MCKINNEY ST. INTERSECTION



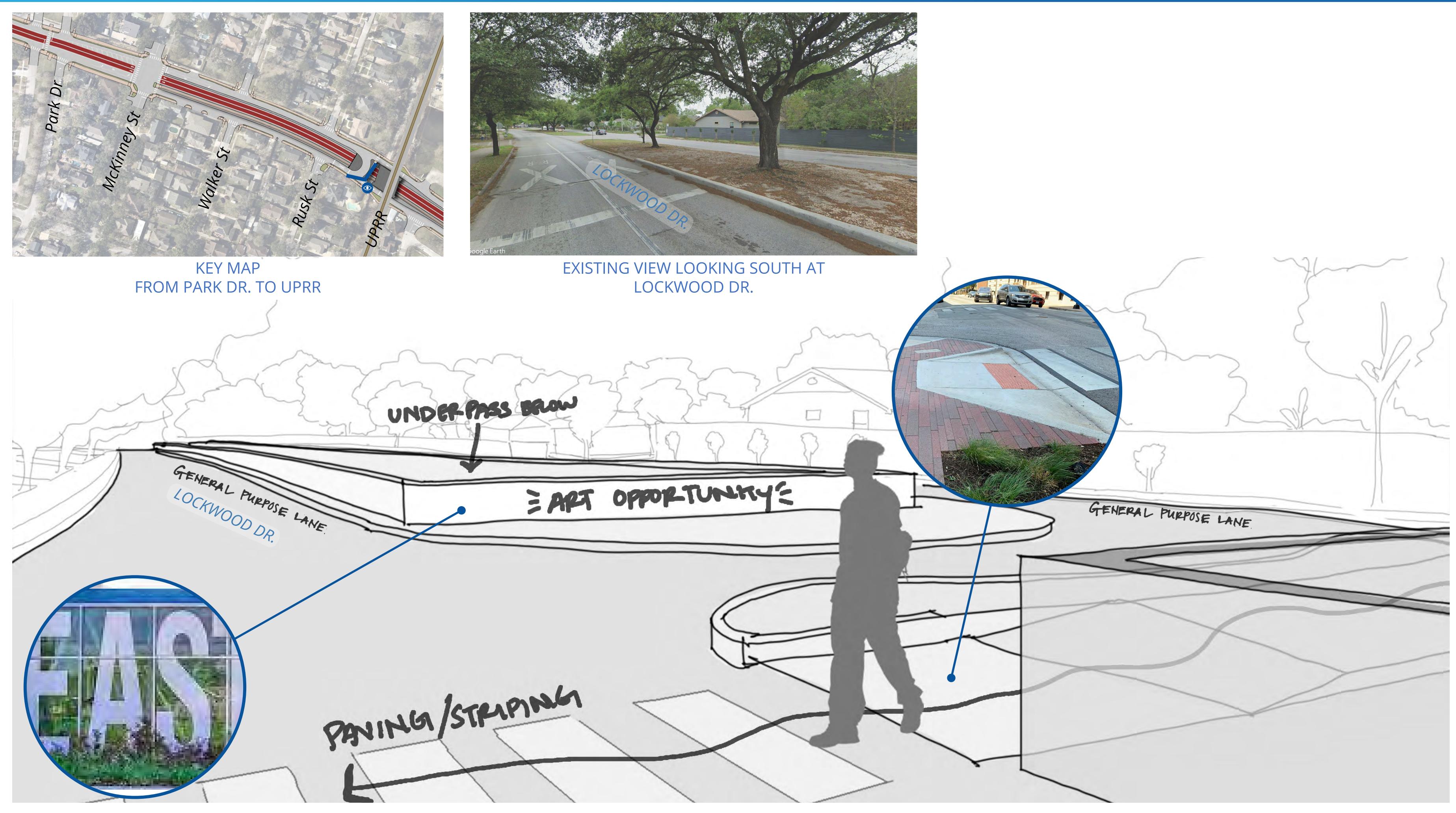




PROPOSED VIEW LOOKING WEST AT LOCKWOOD DR. FROM RUSK ST.



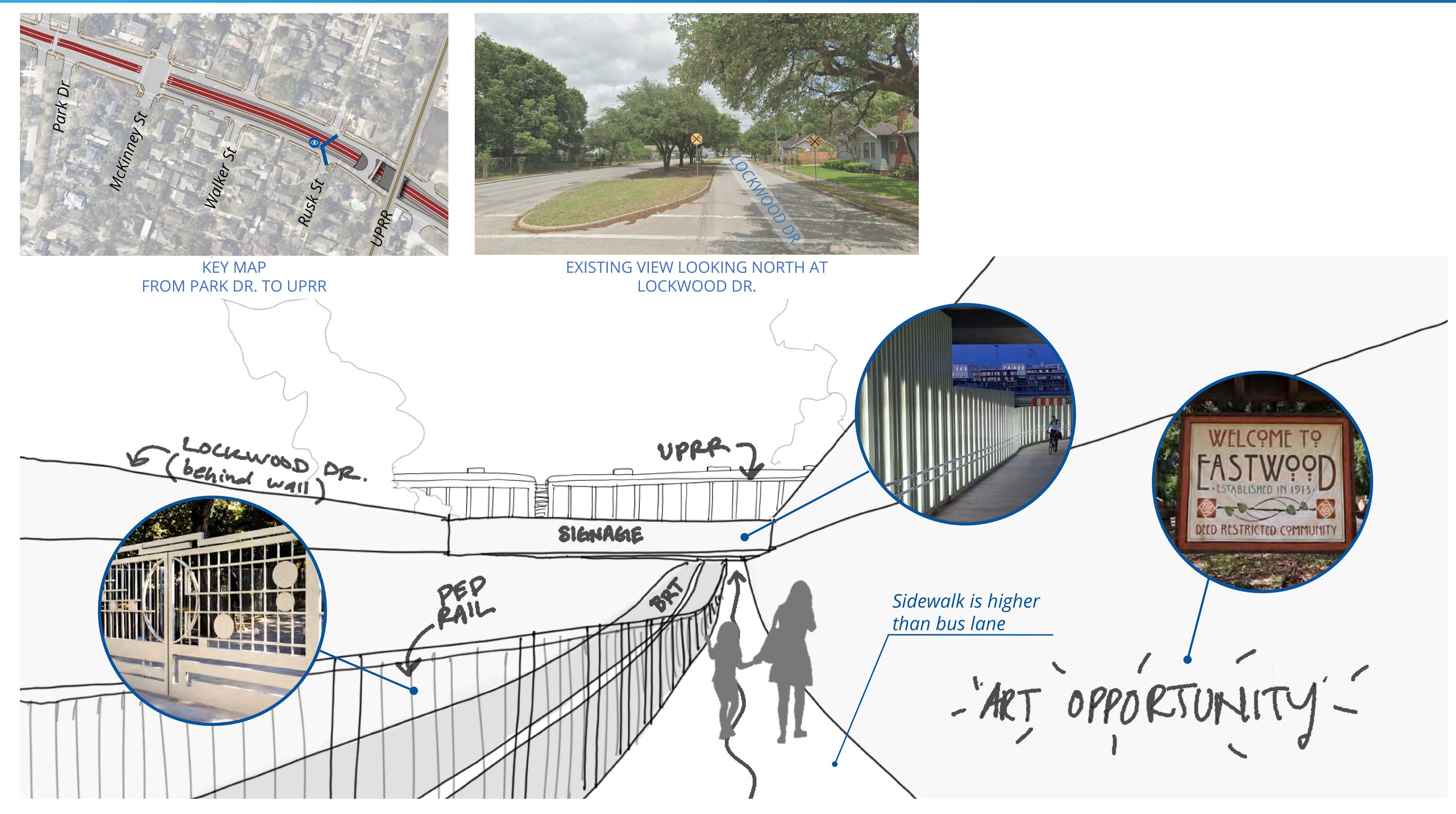




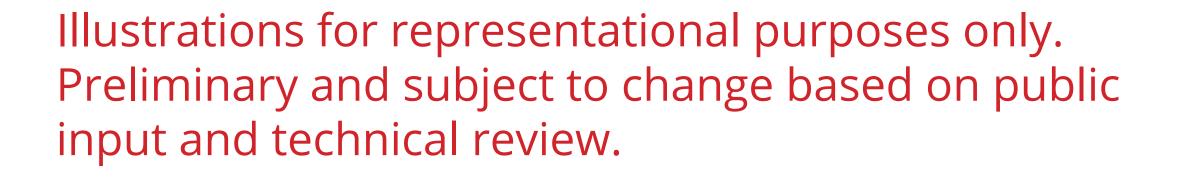
PROPOSED VIEW LOOKING SOUTH AT LOCKWOOD DR. (AT-GRADE)

Illustrations for representational purposes only. Preliminary and subject to change based on public input and technical review.





PROPOSED VIEW LOOKING NORTH AT LOCKWOOD DR. (UNDERPASS)





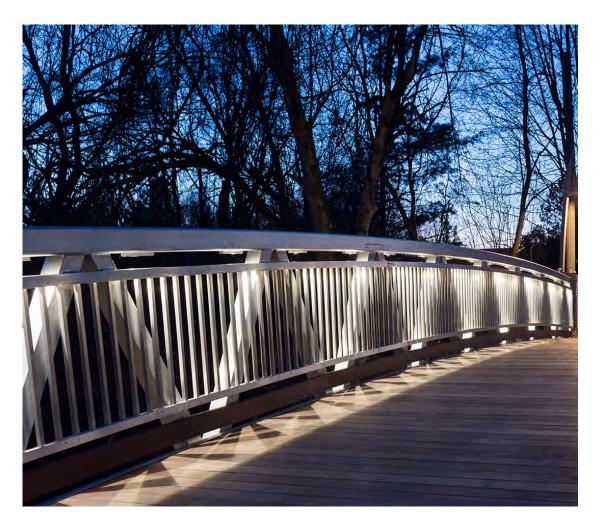
Wall Design Fences Lighting

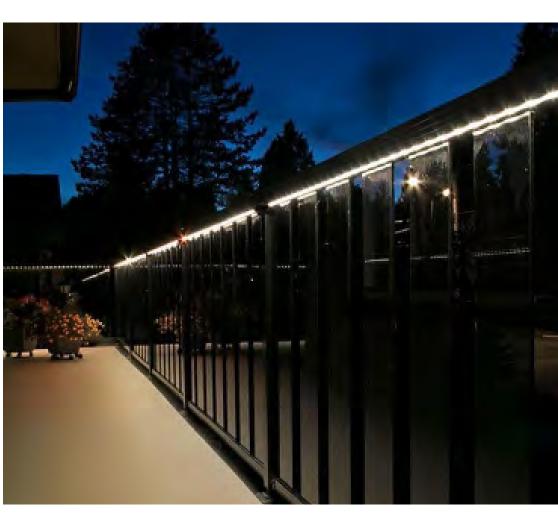






































Signage - Existing



Paving







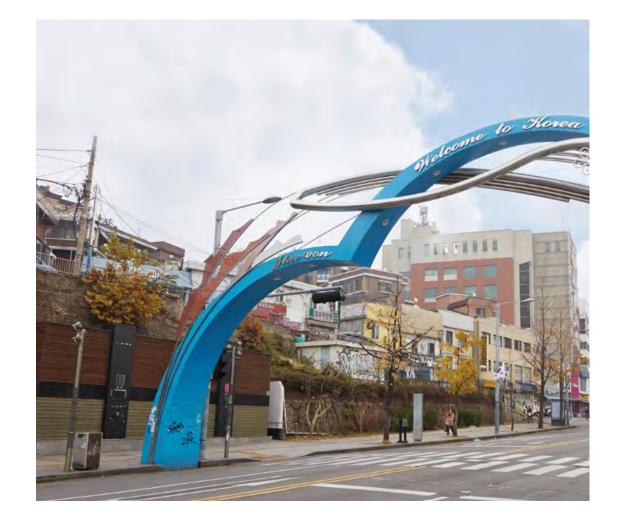








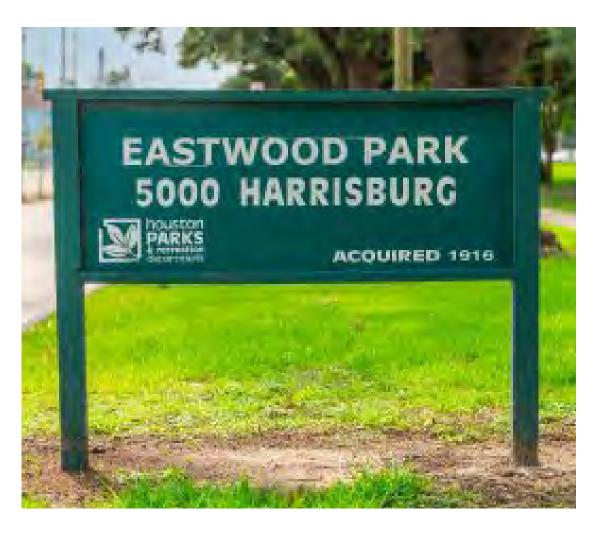


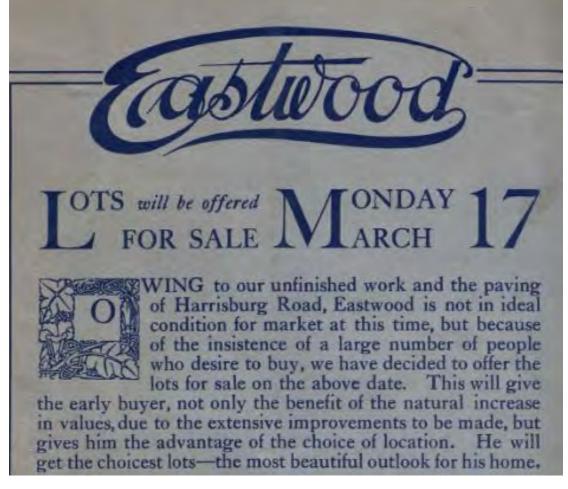






















Existing Architectural Reference





