GREENING FIVE POINTS

Prepared for Client August 4, 2022



Prepared by

DESIGNWORKSHOP

INTRO	•••••••••••••••••••••••••••••••••••••••
Team	02
Project Brief	03
Clients	04
Client's Vision	05
Dilemma	06
Thesis	07
SITE CONTEXT	08
Context	09
History	10
Demographics	11
Land Use	12
ANALYSIS	13
Green Spaces	14
Tree Canopy	15
Tree Canopy Comparison	16
Heat Surfaces	17
Hydrology	18
Goals	19
Metrics Baseline	20
SITE DESIGN BOXYARD PARK	•••••• 21
Site Aerial	22
Site Photography	23
Section Study – Existing	24
Opportunities & Constraints	25
Engagement Plan Sketches	26
Alternative 1	27
Alternative 2	28 29
Alternative 3	30
Preferred Alternative	31
Section Study – Proposed	32
Art & Community	33
Environment	34
Planting Palette	35
Economy	36
Preferred Alternative	37

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GREENING FIVE POINTS	••••••••••••••••••••••••••••••••••••••
Landscape	39
Priority Areas Analysis	40
Priority Areas	41
Prototype Typologies – Streetscape	42
Existing Conditions	43
Proposed Typologies	44
Proposed Typologies – Parking Lots	45
Existing Conditions	46
Proposed Typologies	47
Proposed Typologies – Commercial Frontage	48
Existing Conditions	49
Proposed Typologies	50
Proposed Metrics	51
Project Goals Applications	52

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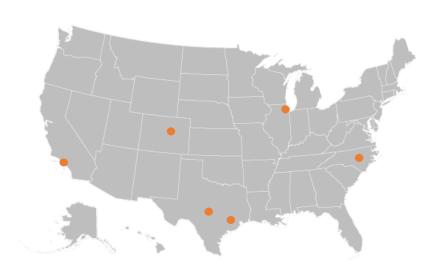
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Gauri Patil, Los Angeles







PROJECT BRIEF

The Five Points greening project aims to increase access to the benefits provided by green infrastructure such as **climate resilience**, **wellness**, and **economic benefits**. The project also aims to increase green space for residents of the Five Points neighborhood and surrounding communities, specifically those that have traditionally faced barriers to accessing healthy outdoor spaces.

The Green Dot Coalition, led by the National Wildlife Federation, small business Green Spaces, and multiple Five Points community-led organizations, are working to create a green community vision for the Five Points Neighborhood. They want to implement practices and policies that: restore climate-resilient, water-smart, and pollinator-friendly greenery reflecting the values of the neighborhood; bolster efforts by local business leaders to transform their own spaces within the community; foster a workforce development program that leads to sustainability; and serve as a model for other communities to drive their own green infrastructure investments, in Denver and beyond.





CLIENTS









GREEN DOT COALITION



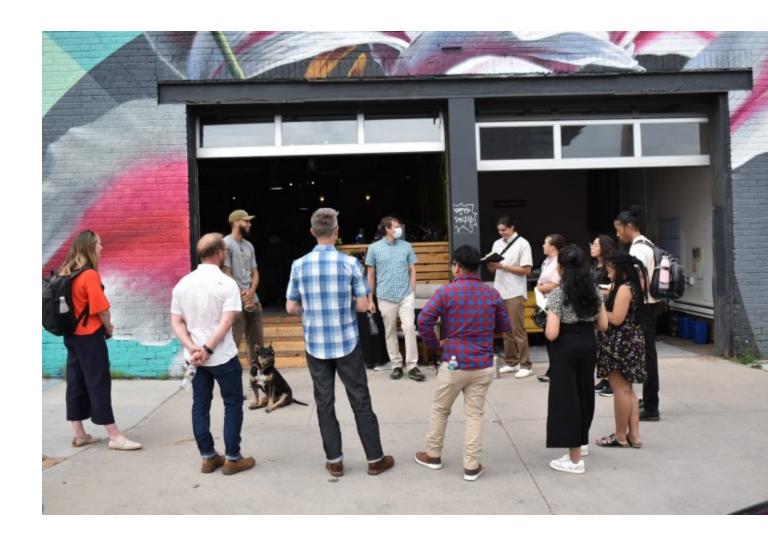








GLIENISION



- "Green Metropolis"
- Bring nature to the urban spaces "in-between"
- Protect existing small businesses
- Community involvement
- Green infrastructure

- Mitigate flooding
- Improve air quality
- Decrease heat and increase shade
- Support wildlife
- Put people first
- Accessible green spaces
- Maintain community identity

DILEMMA

The Five Points neighborhood has served as a cultural hub in Denver for generations. Seeing many transformations through its time, this community has proven itself resilient in the face of change, holding true its legacy of art and culture. Within the last decade, the neighborhood has seen a new period of transition especially in the Northwest, where multistory apartment buildings are going up in the place of warehouses and industry that once supported the adjacent Union railway. This once industrial sector eventually became a haven for artists due to inexpensive housing costs before becoming an up-and-coming hotspot for residents and retail alike. This area, not originally intended for human use, has a severe lack of trees and vegetation which exacerbates the urban heat island effect while leaving the area susceptible to flooding. Historic streets further to the Southeast such as Welton and 22nd have a severe lack of shade and vegetation that has left small businesses seeking solutions to manifest a more inviting and comfortable atmosphere.

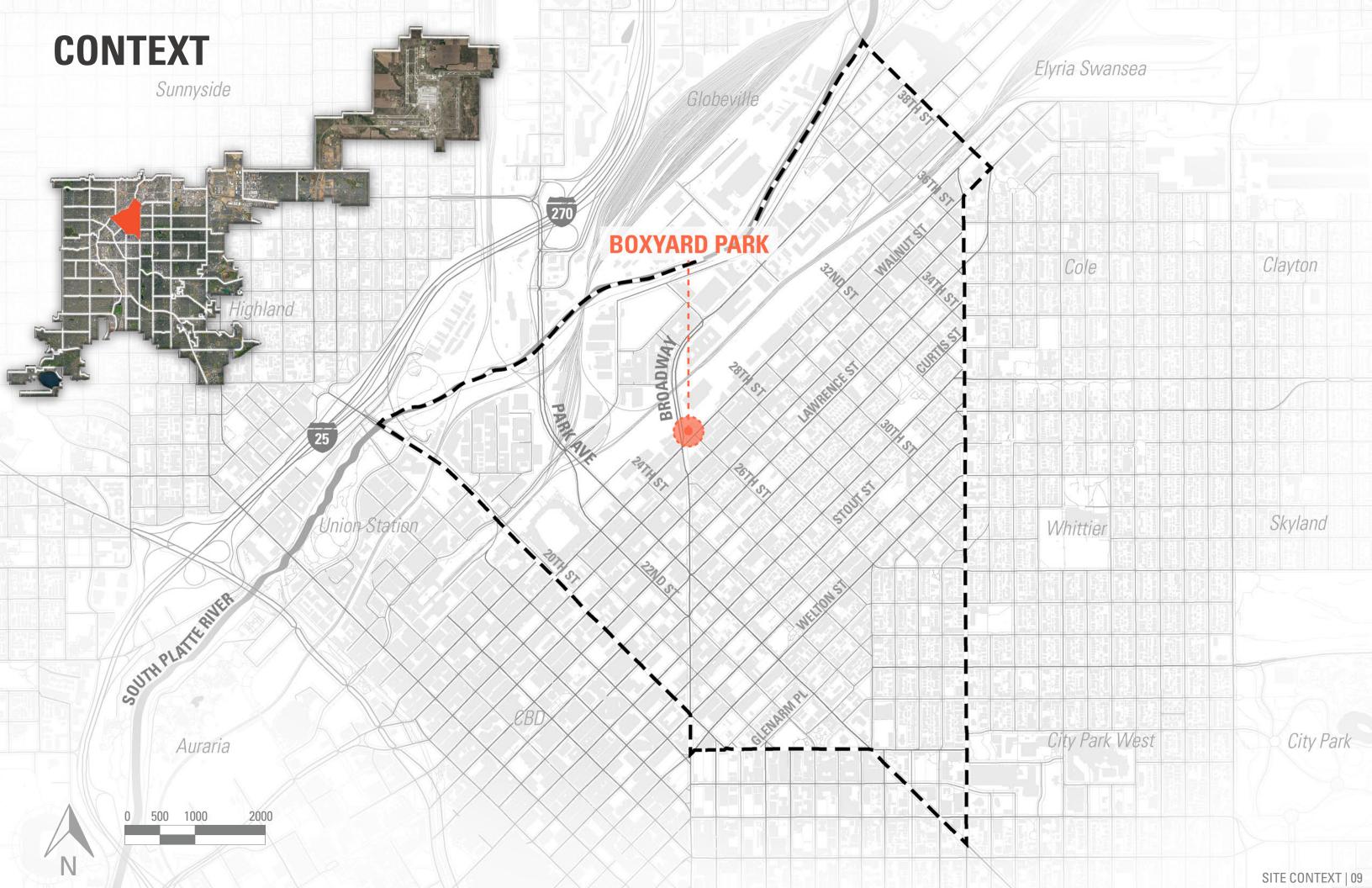
How can we implement green infrastructure in a neighborhood with limited space which was not originally designed for human use?

How can we communicate the value of green infrastructure to the broader community and encourage involvement through design?

THESIS

Taking advantage of the **missed opportunities** for green infrastructure and vegetation in the 5 points neighborhood, the Charles Fountain Intern team seeks to **identify priority** areas that have the greatest need for re-design and **create a series of typologies** that will address the needs of the site. The team's work will include a **re-design of Boxyard park**, a space in the once industrial section of the neighborhood that is notorious for being an eyesore and overly-exposed to the sun's heat. This work will culminate in a series **of** "**green ribbons**" that connect amenities, small businesses, and residences with various green infrastructure strategies that will **improve human thermal comfort, reduce instances of flooding, and support small businesses.**

SITE CONTEXT



FIVE POINTS

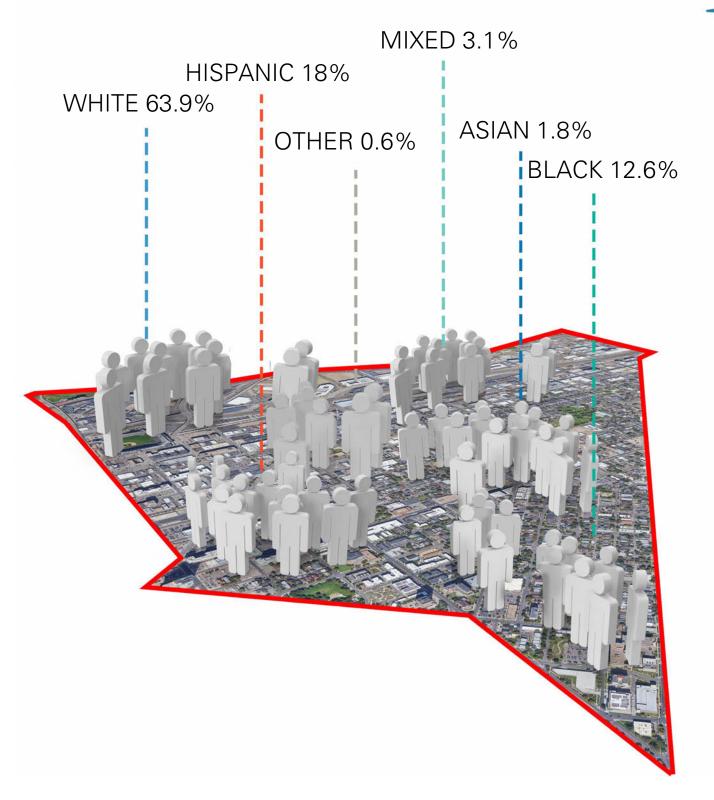
BLACK COMMUNITY

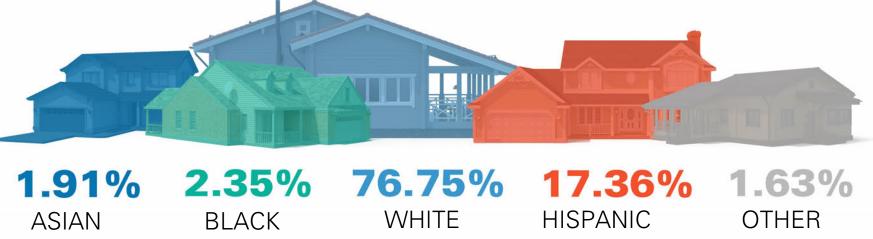


DEMOGRAPHICS

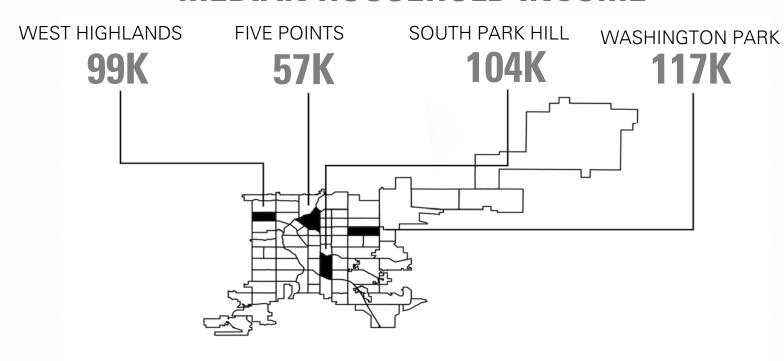
FIVE POINTS HOME OWNERSHIP

FIVE POINTS RACE POPULATION





MEDIAN HOUSEHOLD INCOME



FIVE POINTS AGE RANGE

4.87% 65 +40-46

27%

56.4%

1.56%

10.2%

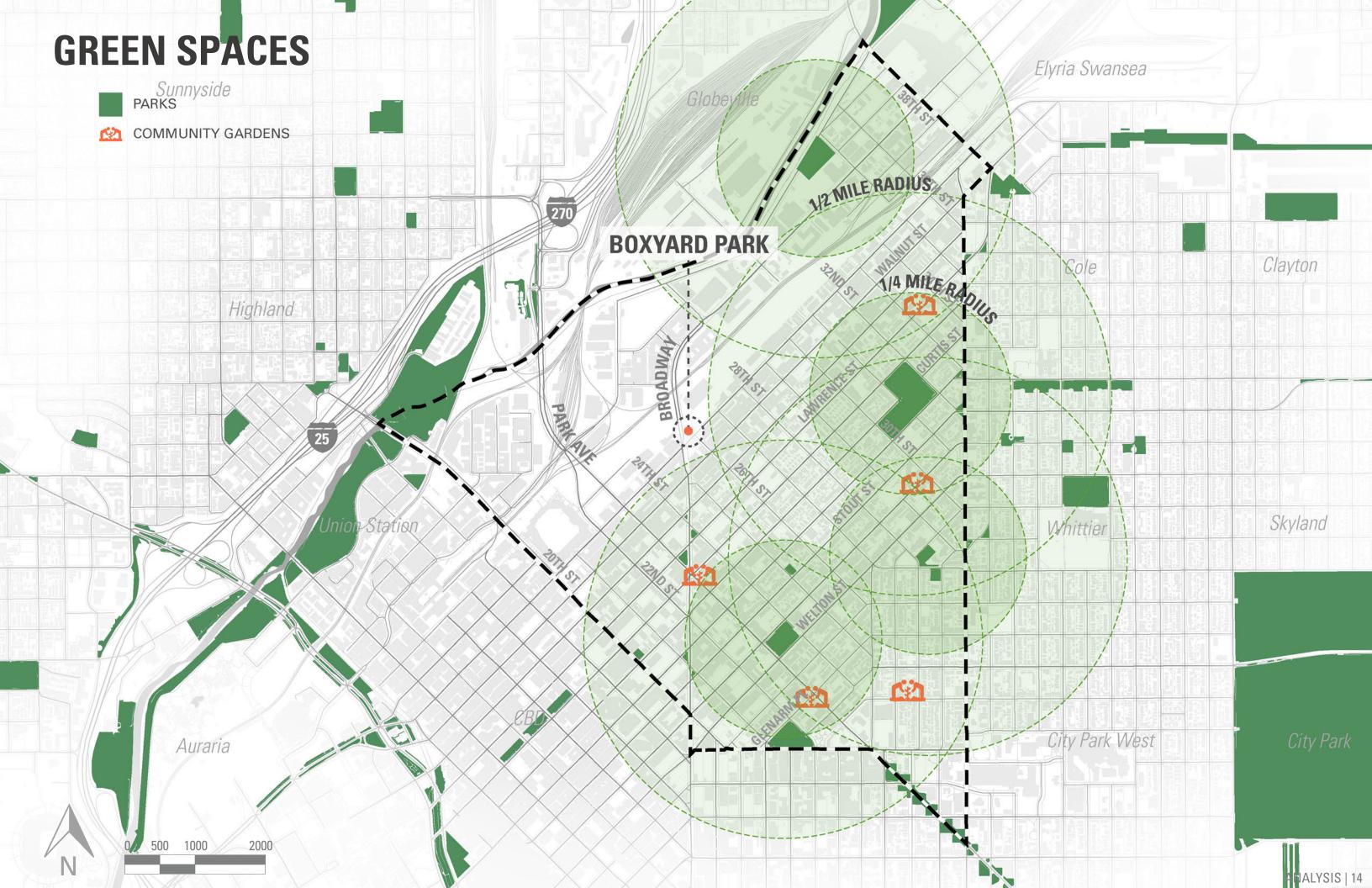
22-39

18-21

0 - 17

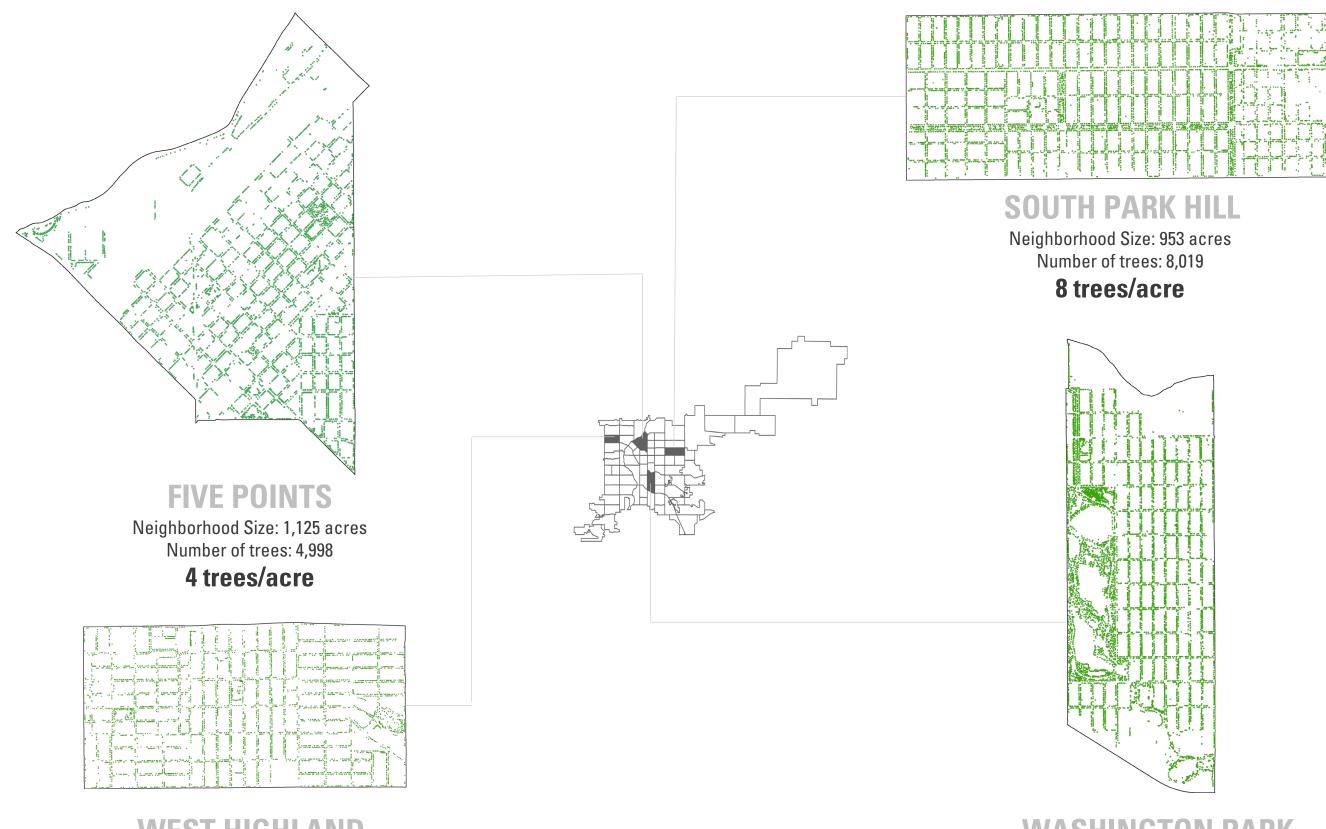


ANALYSIS





TREE CANOPY COMPARISON



WEST HIGHLAND

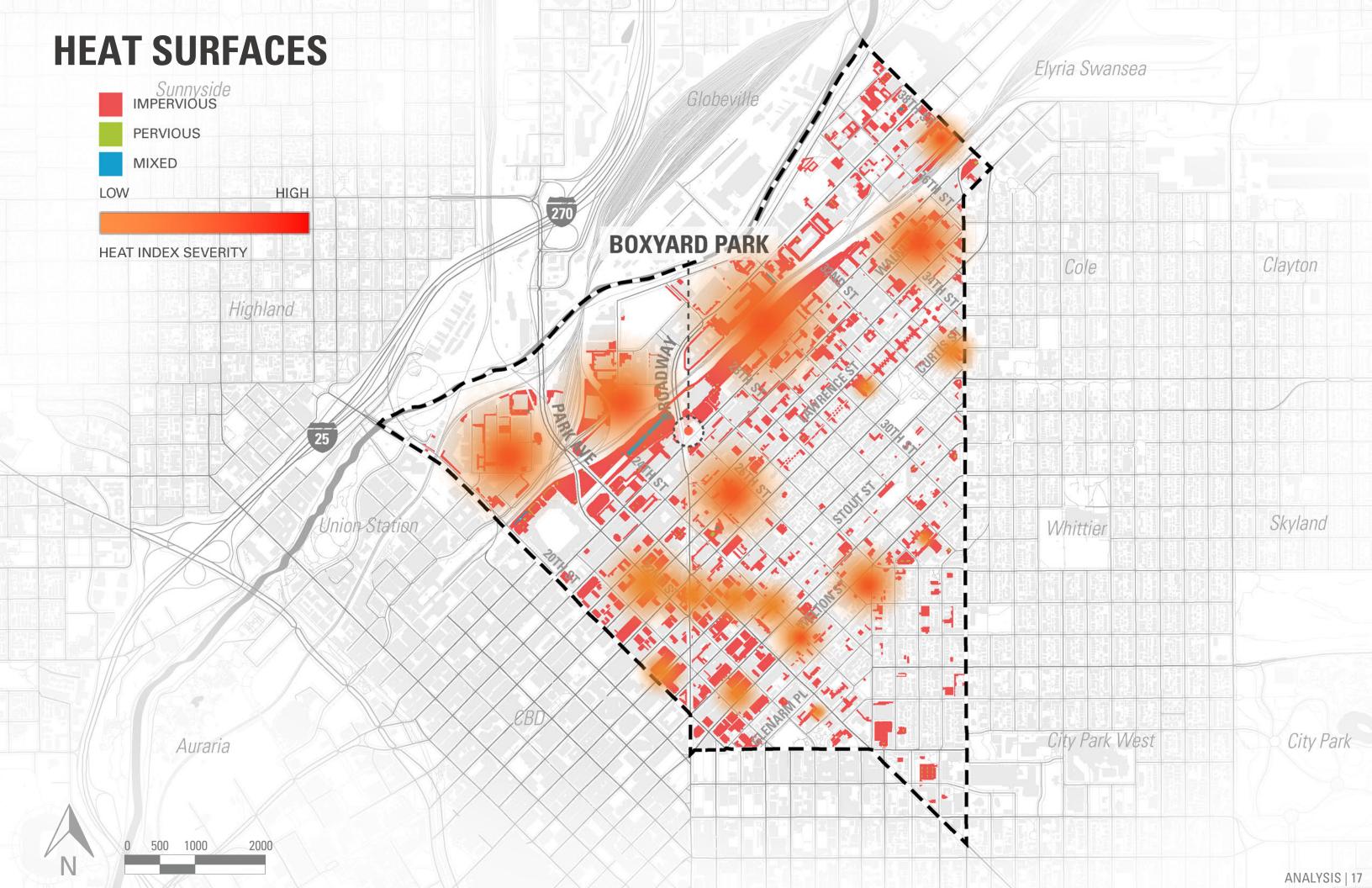
Neighborhood Size: 718 acres Number of trees: 5,185

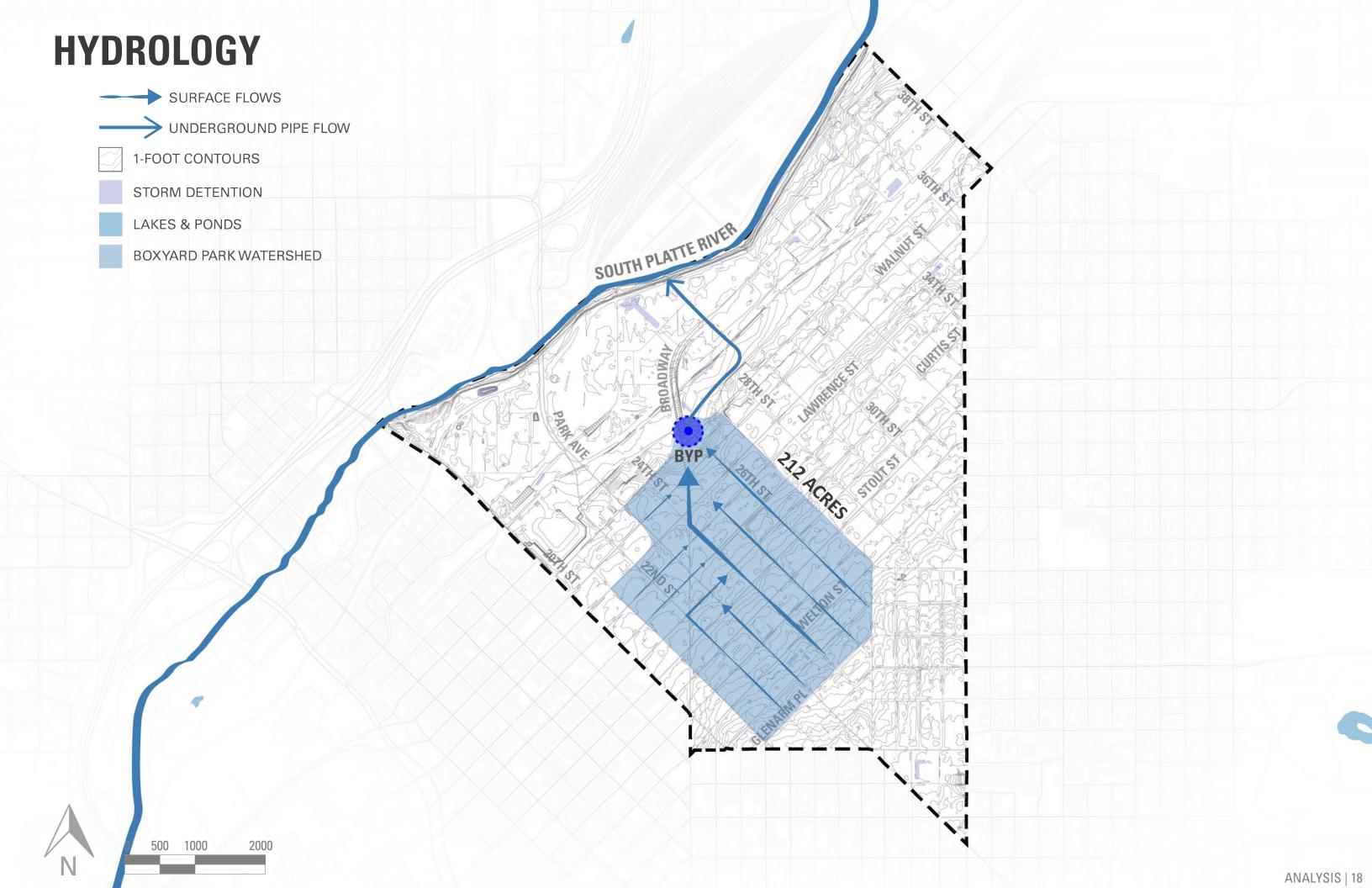
7 trees/acre

WASHINGTON PARK

Neighborhood Size: 966 acres Number of trees: 7,763

8 trees/acre







COMMUNITY

- Facilitate community learning on green infrastructure and the environments
- Cultivate a sense of community through maintaining shared spaces
- Expose the community to nature through implementing native plantings and strategies to attract and support wildlife



ENVIRONMENT

- Increase tree canopy cover and vegetation to improve human thermal comfort, air quality, and overall human health
- Implement green infrastructure strategies to manage stormwater in areas susceptible to flooding
- Introduce pollinator species in the neighborhood



ART

- Celebrate the industrial history by maintaining a local materials palette
- Celebrate the successional evolution and history of the neighborhood: past, present, and future



ECONOMICS

- Promote and identify P3 partnerships and investment opportunities
- Demonstrate value of green infrastructure to property owners
- Address restricted pedestrian mobility to increase human traffic to local businesses

METRICS BASELINE

FIVE POINTS NEIGHBORHOOD



Number of affordable housing units: **259** Units/3 Properties



Historic Districts: **6**



Existing number of trees on site: **4,998** – 4 Trees/acre



Transit: **9** Public Transit Lines



Percent Impervious Cover: **37.07%**



Number of Parks: **8**



Heat Vulnerability Score: **63.12**



CDC Social Vulnerability Index: **0.468** vulnerability



Number of Public Art Installations: **22**



Acres of park land per 1k population: 1.81 (Denver Average is 8.9)



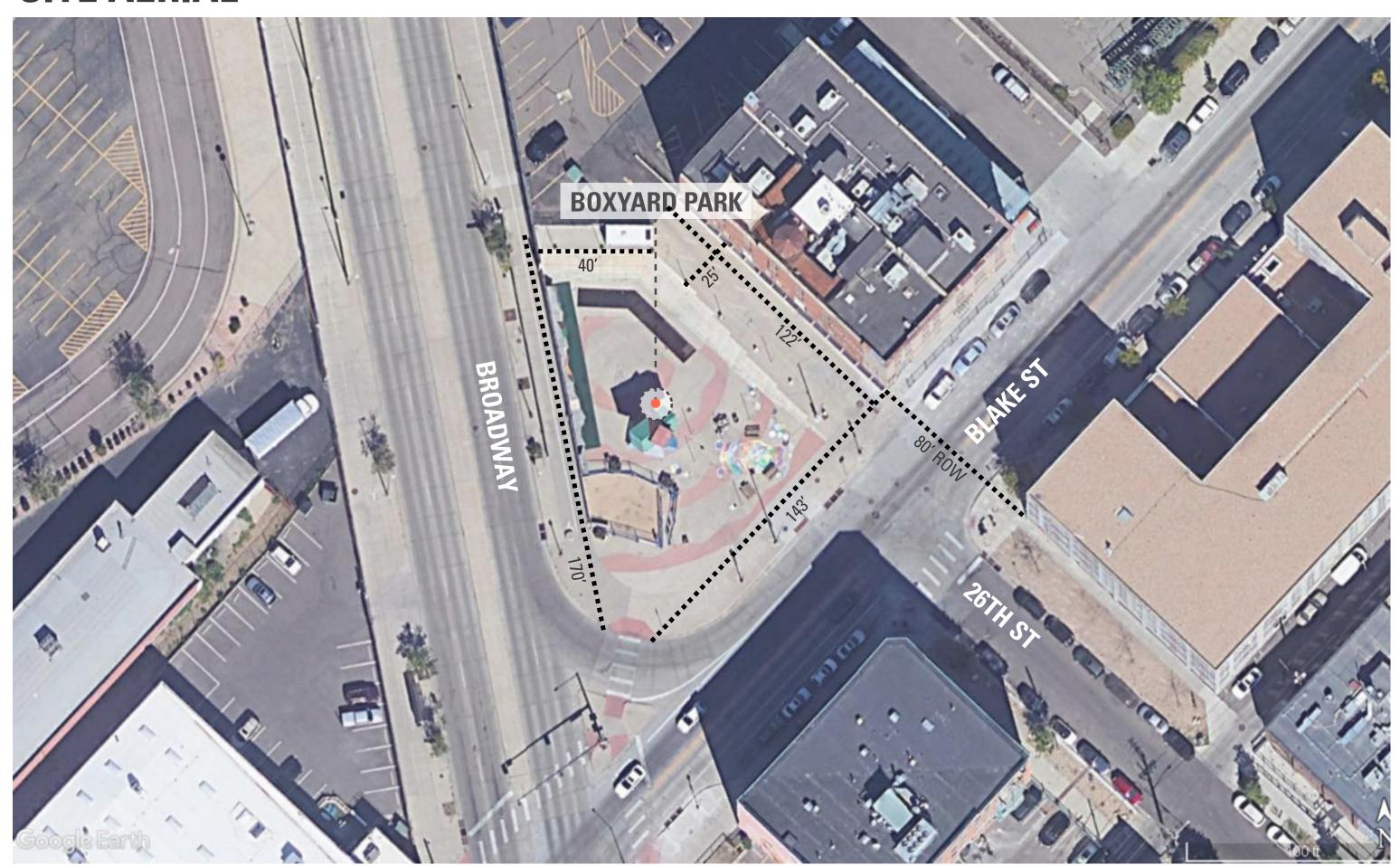
Home Ownership: **25.6%**



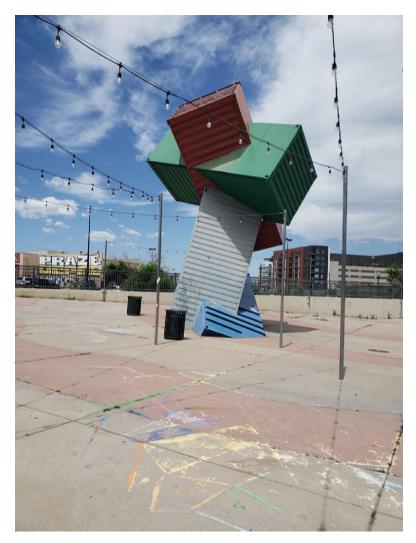
Acres of park land: **26**

SITE DESIGN BOXYARD PARK

SITE AERIAL



SITE PHOTOGRAPHY

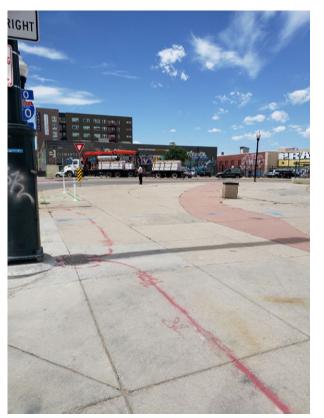








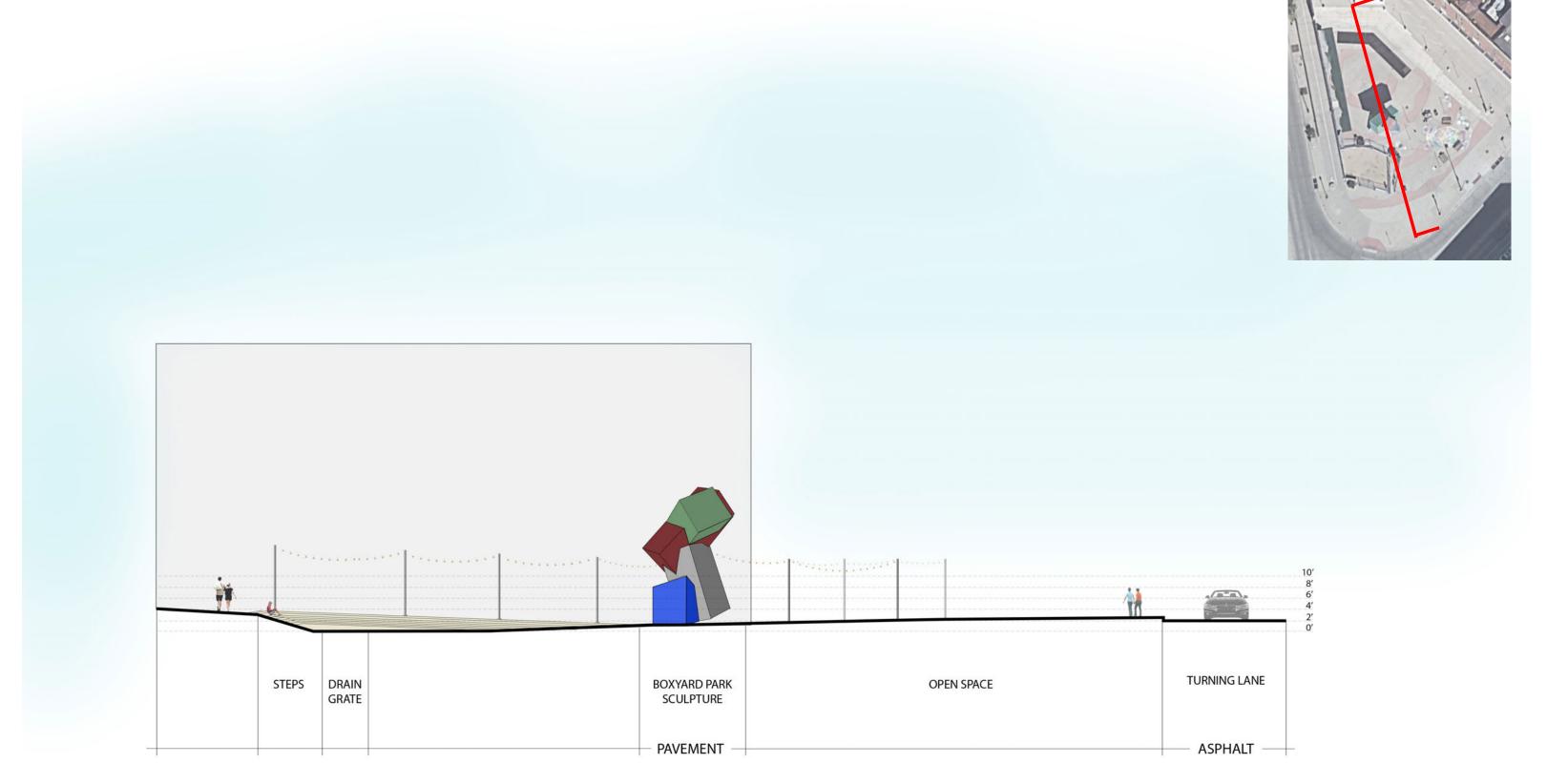


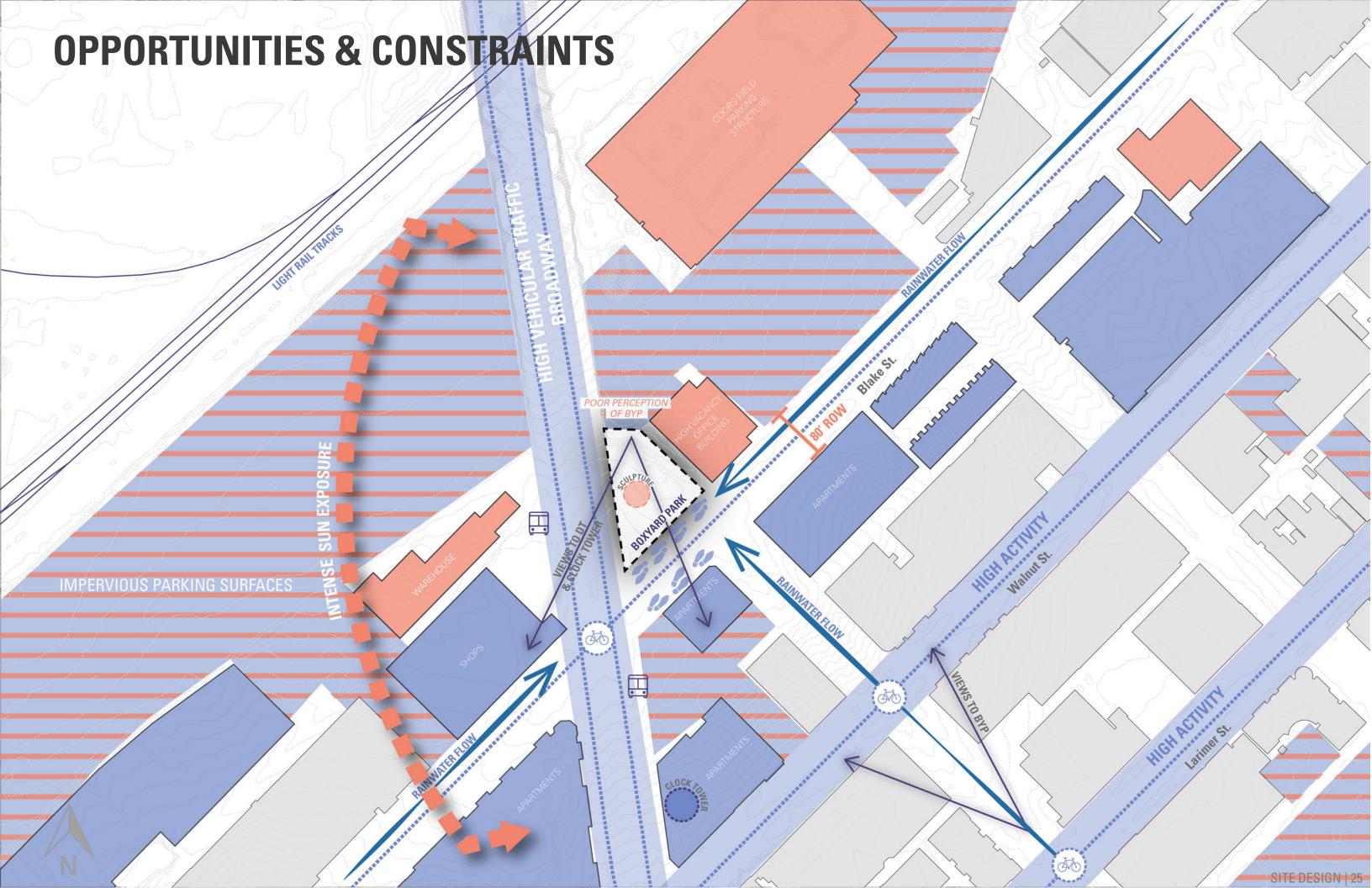






SECTION STUDY - EXISTING





ENGAGEMENT PLAN

City Council

There are no successful green infrastructure areas in Denver

Mobetta Green

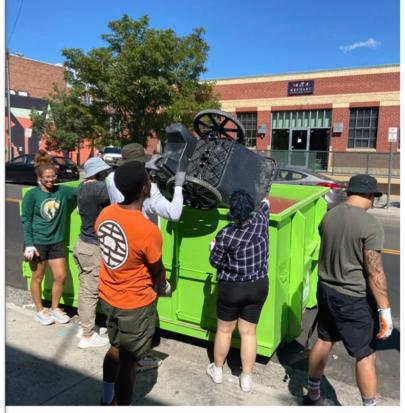
H ealth
E ating
A ctive
L iving

Community Workshop

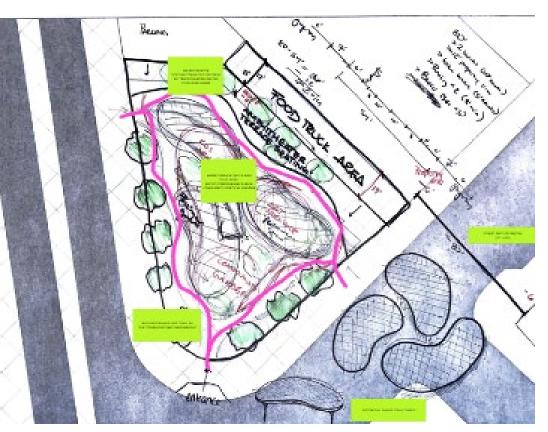
No attachment to Boxyard Structure

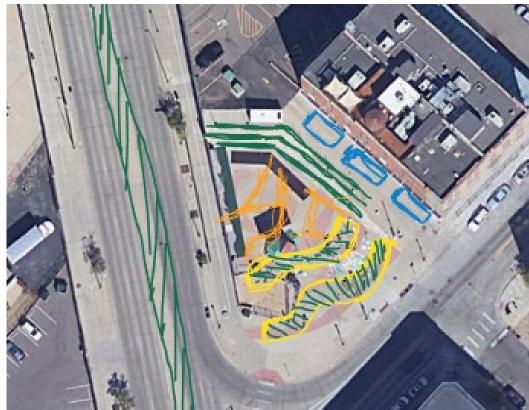






SKETCHES













ALTERNATIVE - CIRCULATION













#1



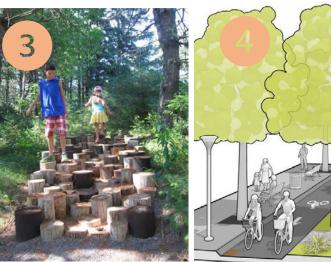
ALTERNATIVE – GREEN SPACE













ALTERNATIVE – COMMUNITY











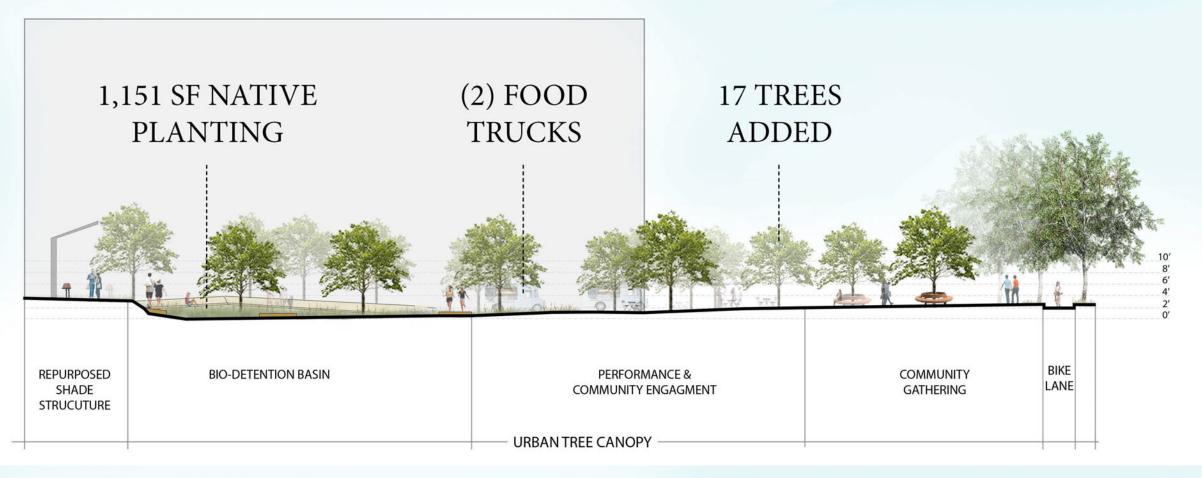






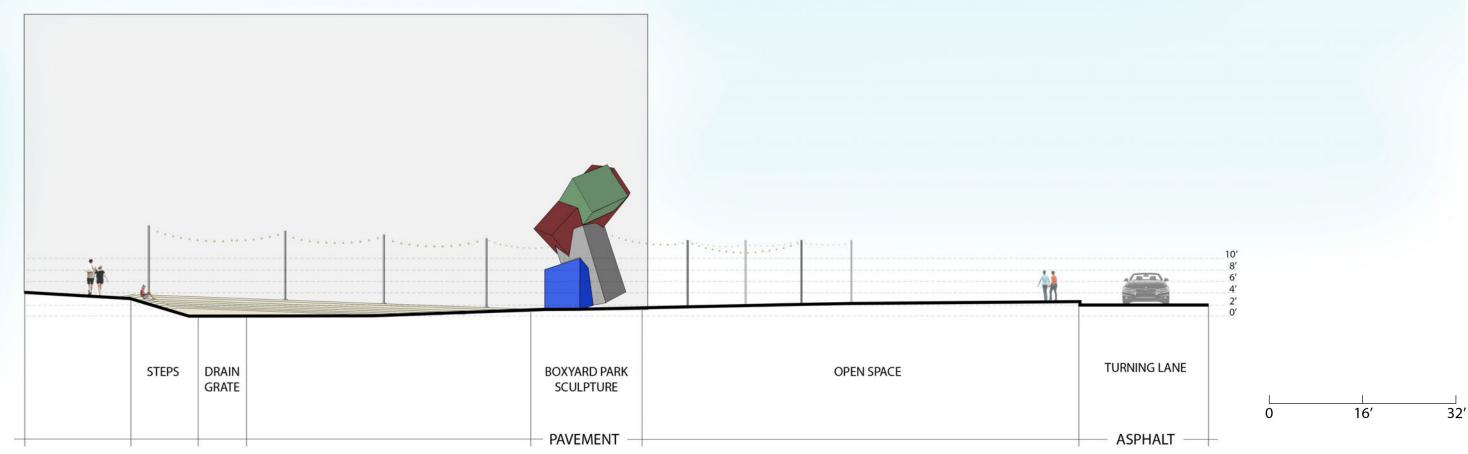


SECTION STUDY - PROPOSED





PROPOSED



ART & COMMUNITY



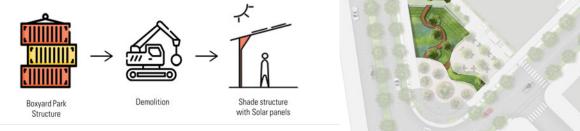


50% of Park Space dedicated to art & community gathering

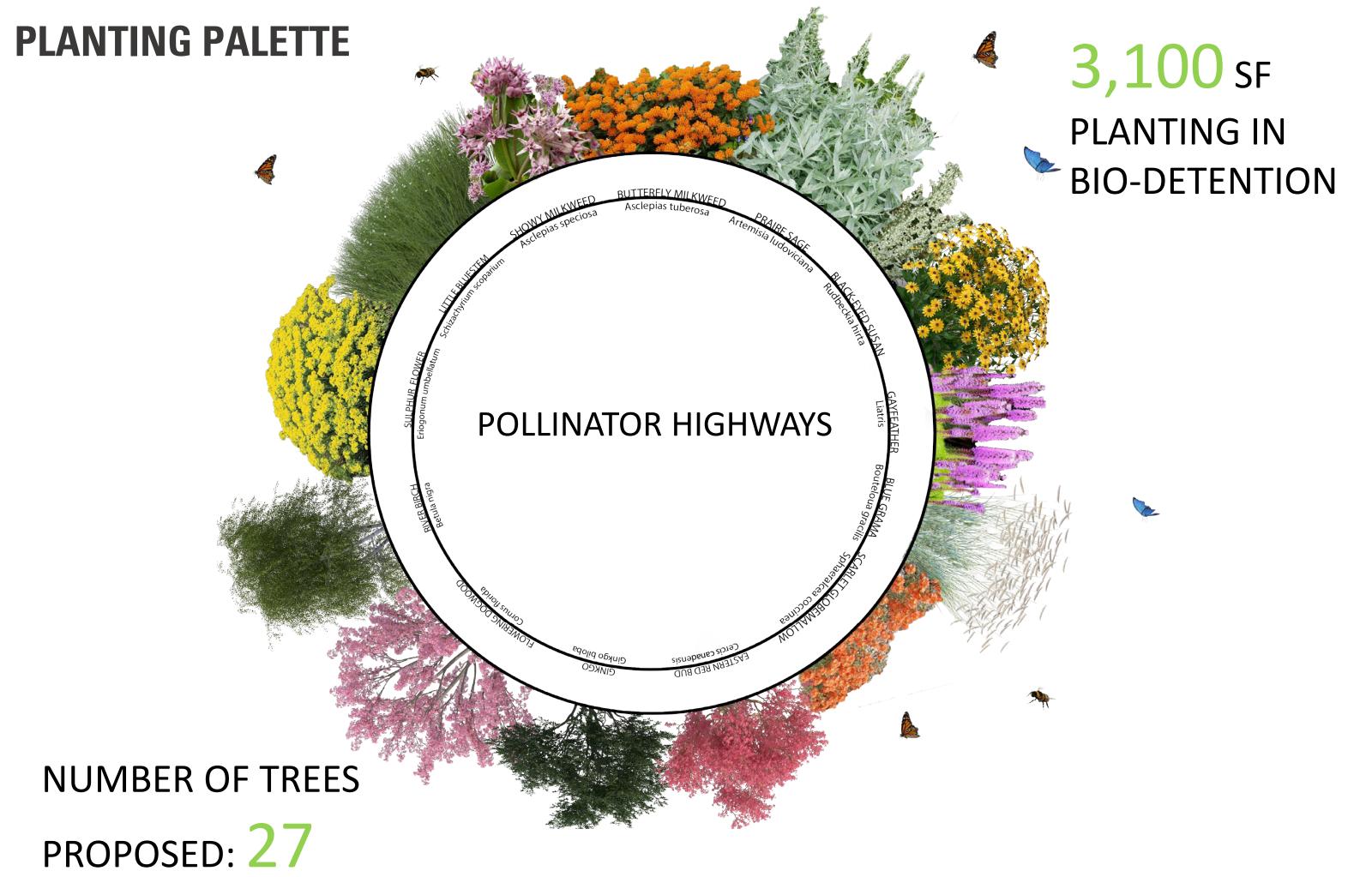




ENVIRONMENT







ECONOMY



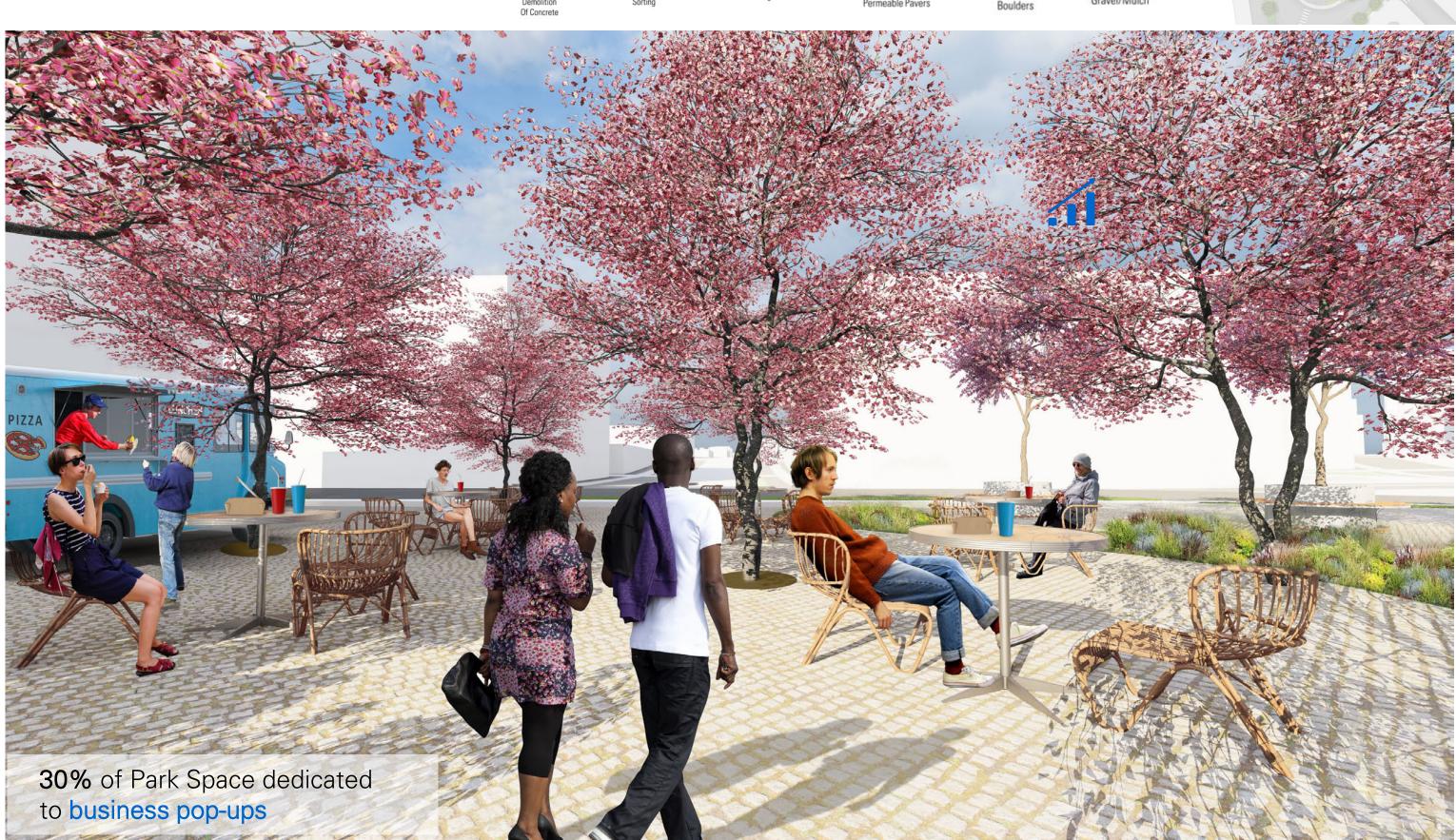






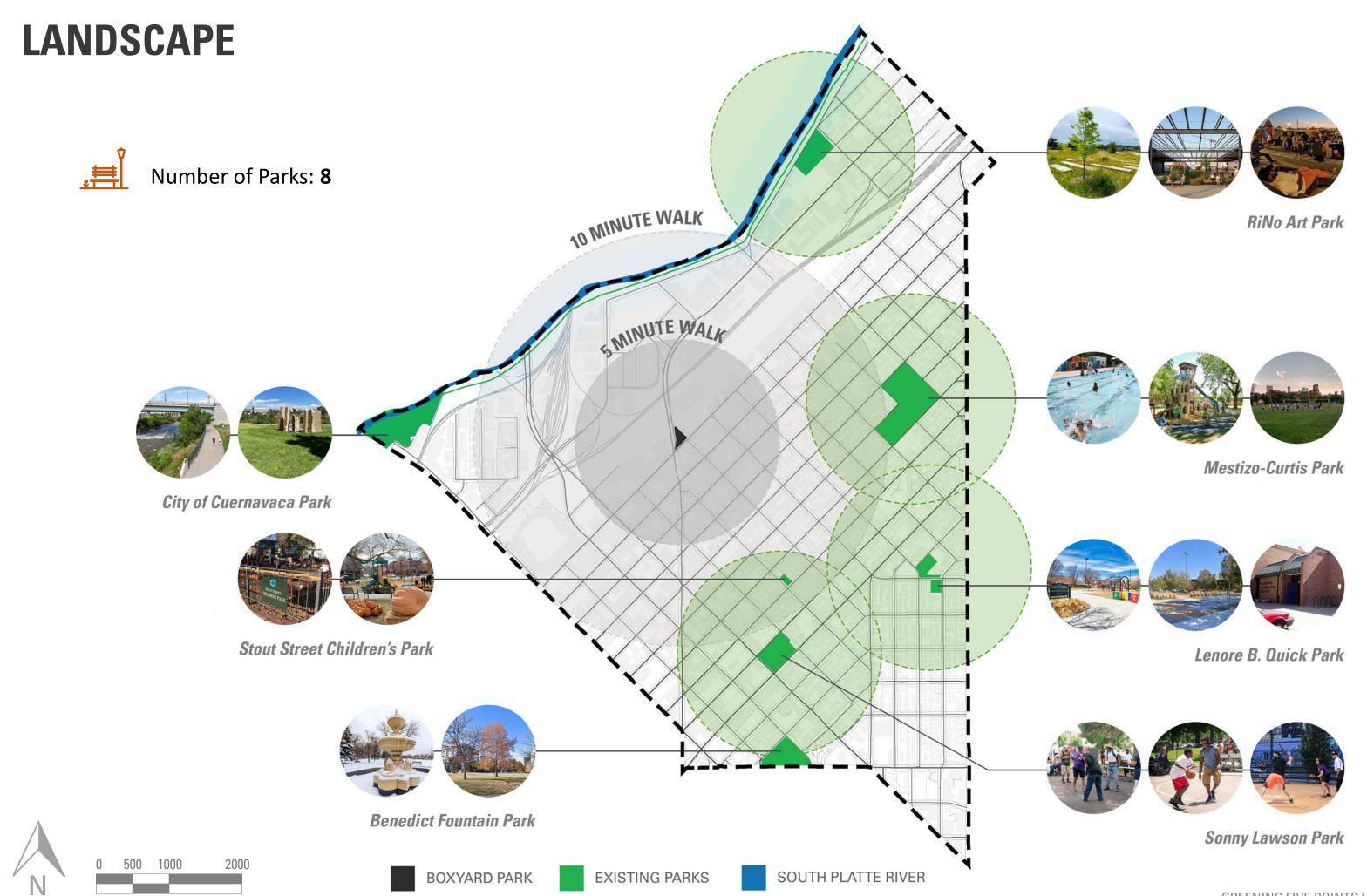








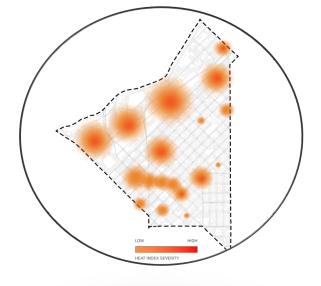
GREENING FIVE POINTS

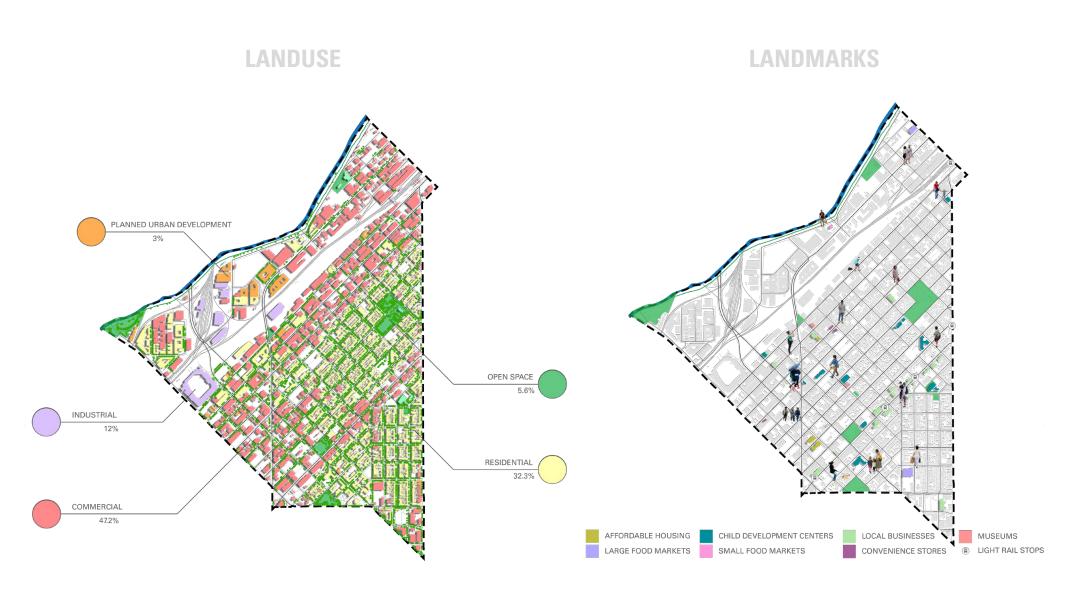


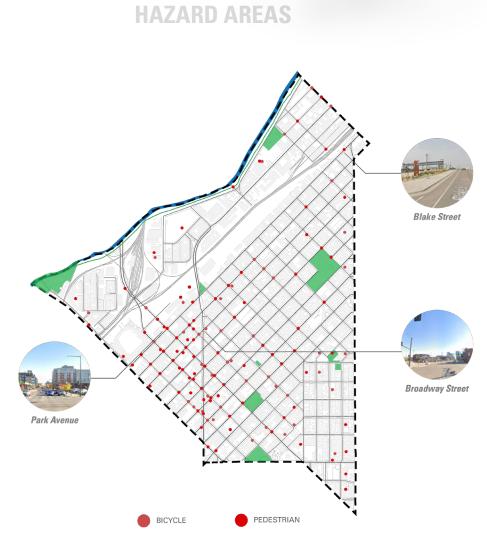
PRIORITY AREA ANALYSIS



Heat Vulnerability Score: **63.12**









Existing number of trees on site: **4,998** – 4 Trees/acre



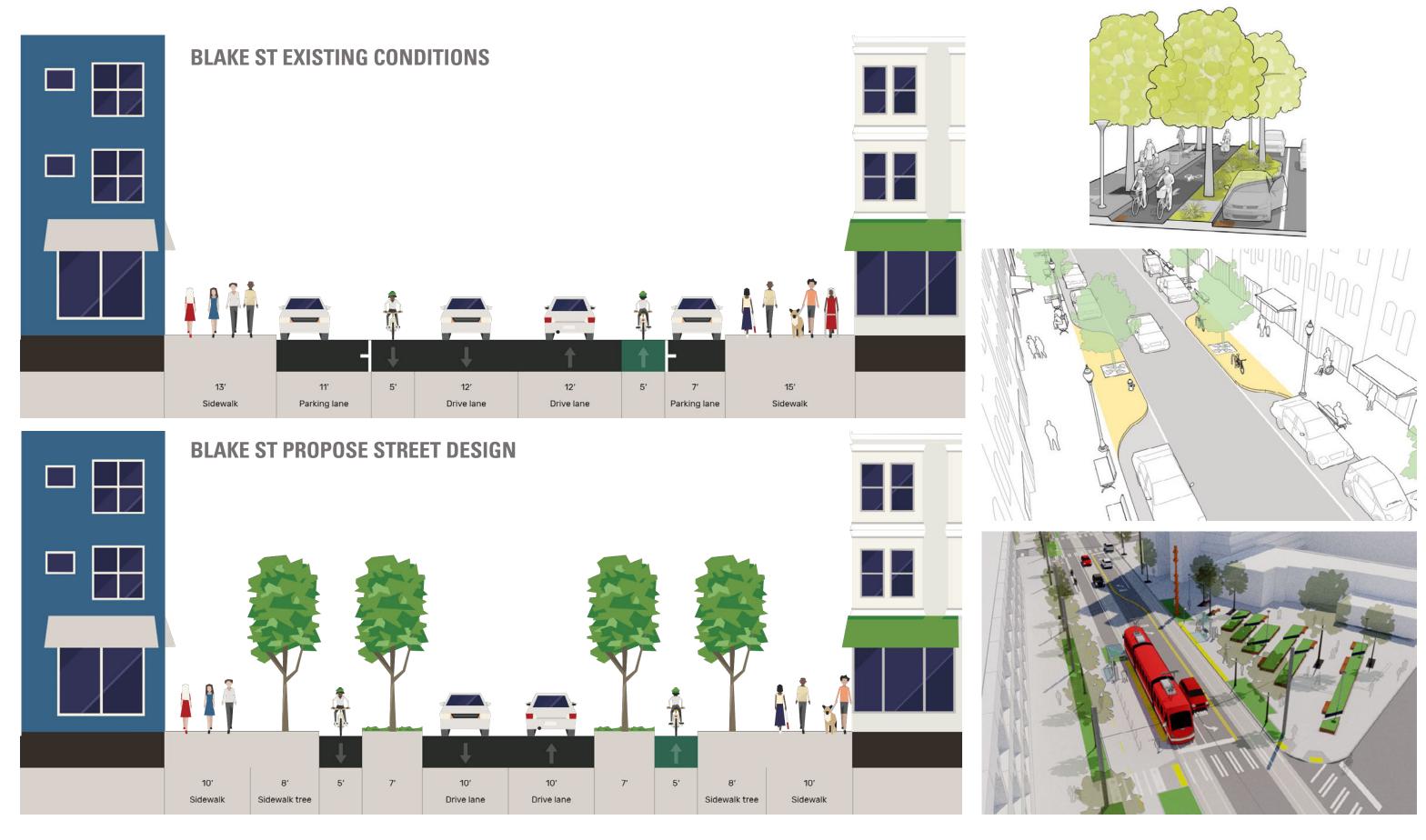
Number of affordable housing units: **259** Units/3 Properties



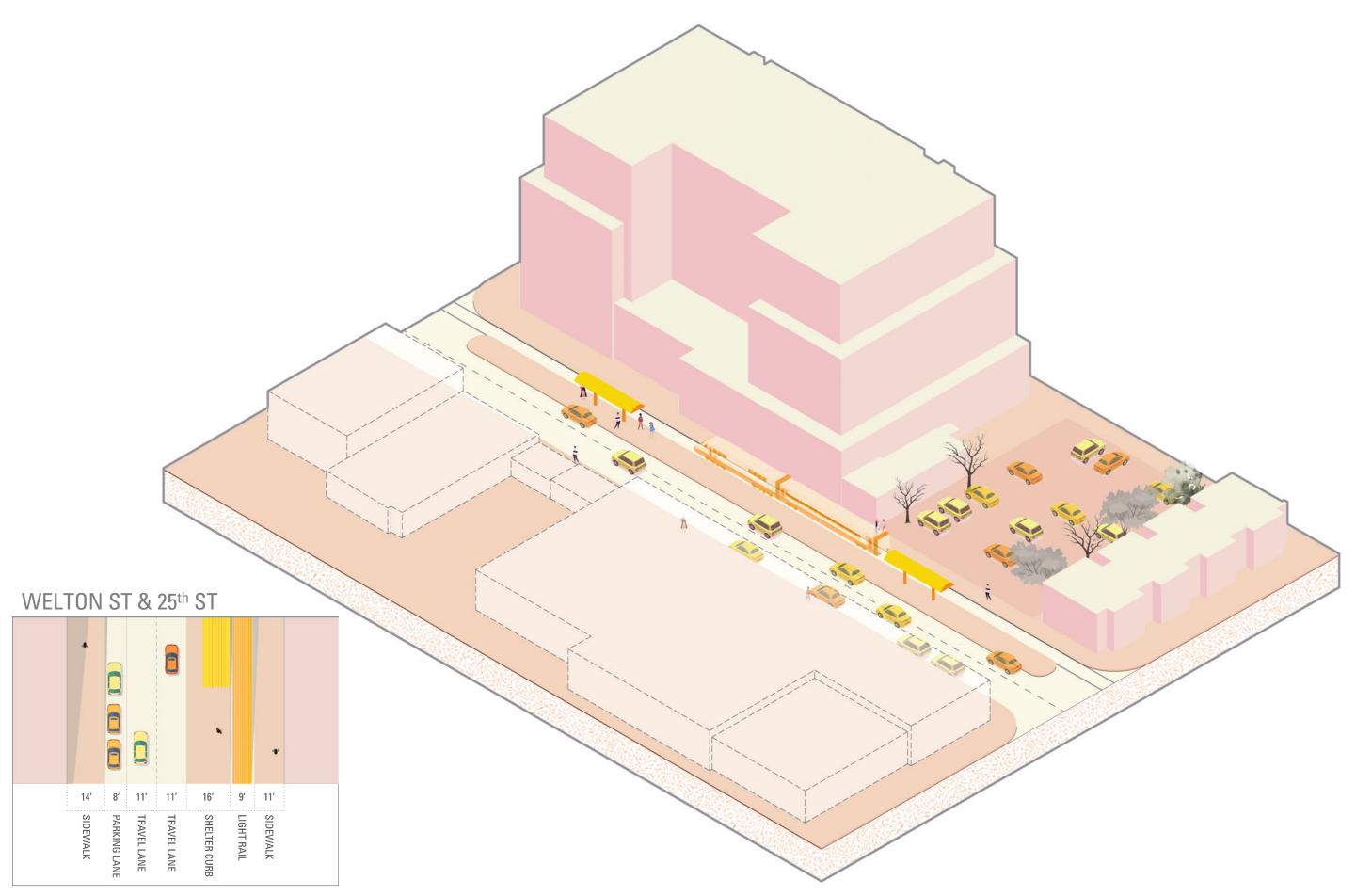
Percent Impervious Cover: **37.07**%



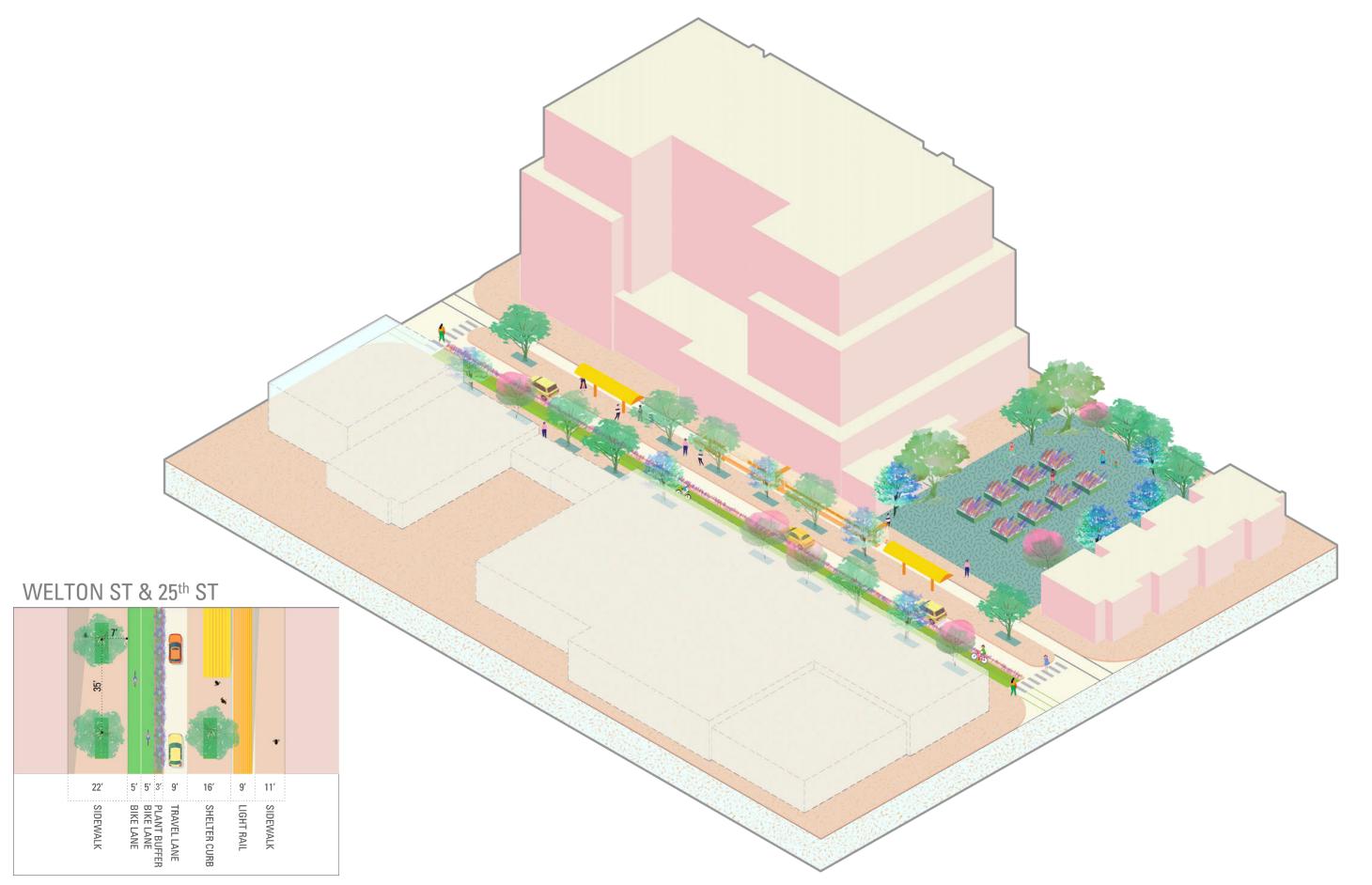
PROTOTYPE TYPOLOGIES - STREETSCAPE



EXISTING CONDITIONS – STREETSCAPE



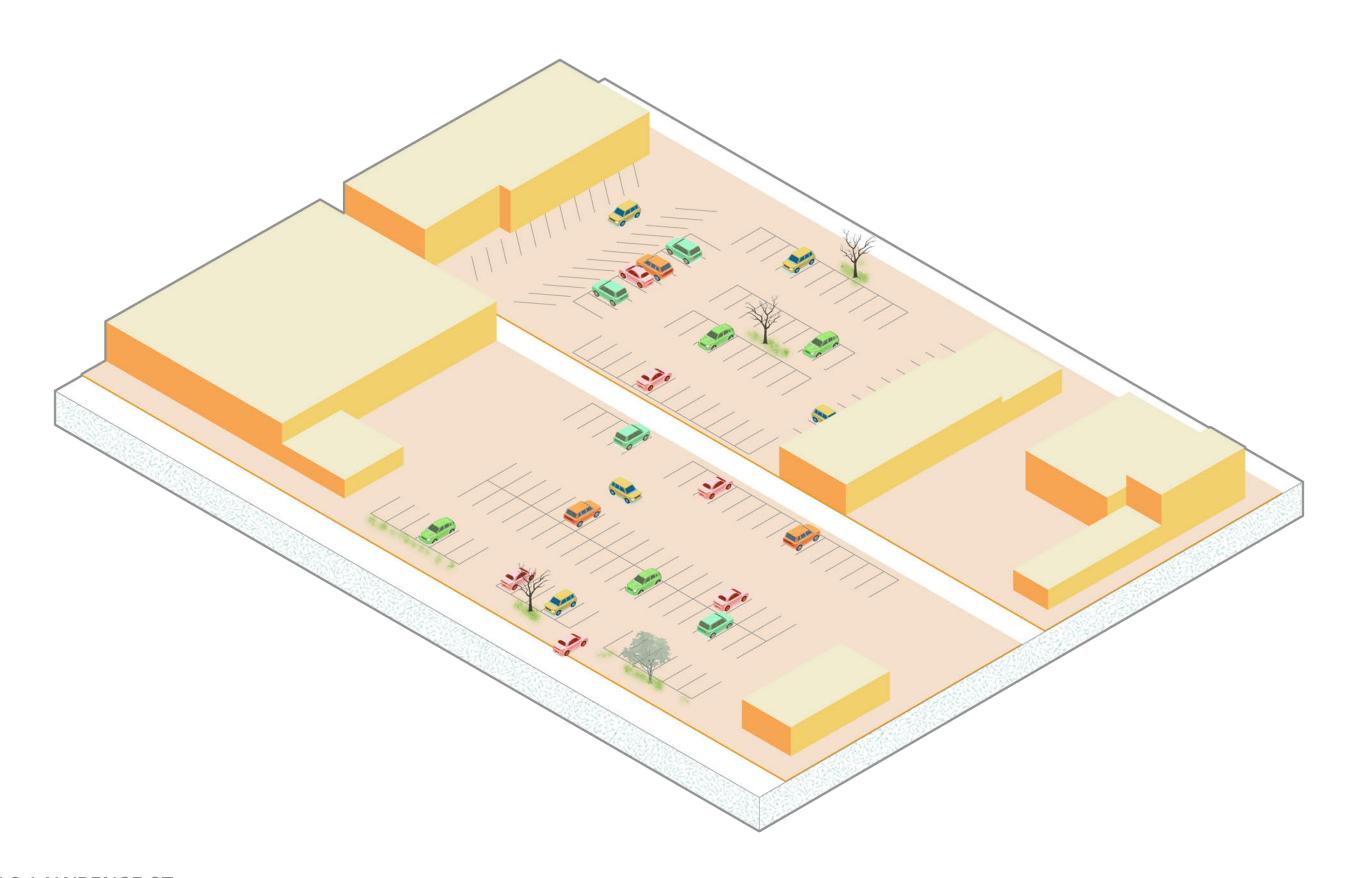
PROPOSED TYPOLOGIES – STREETSCAPE



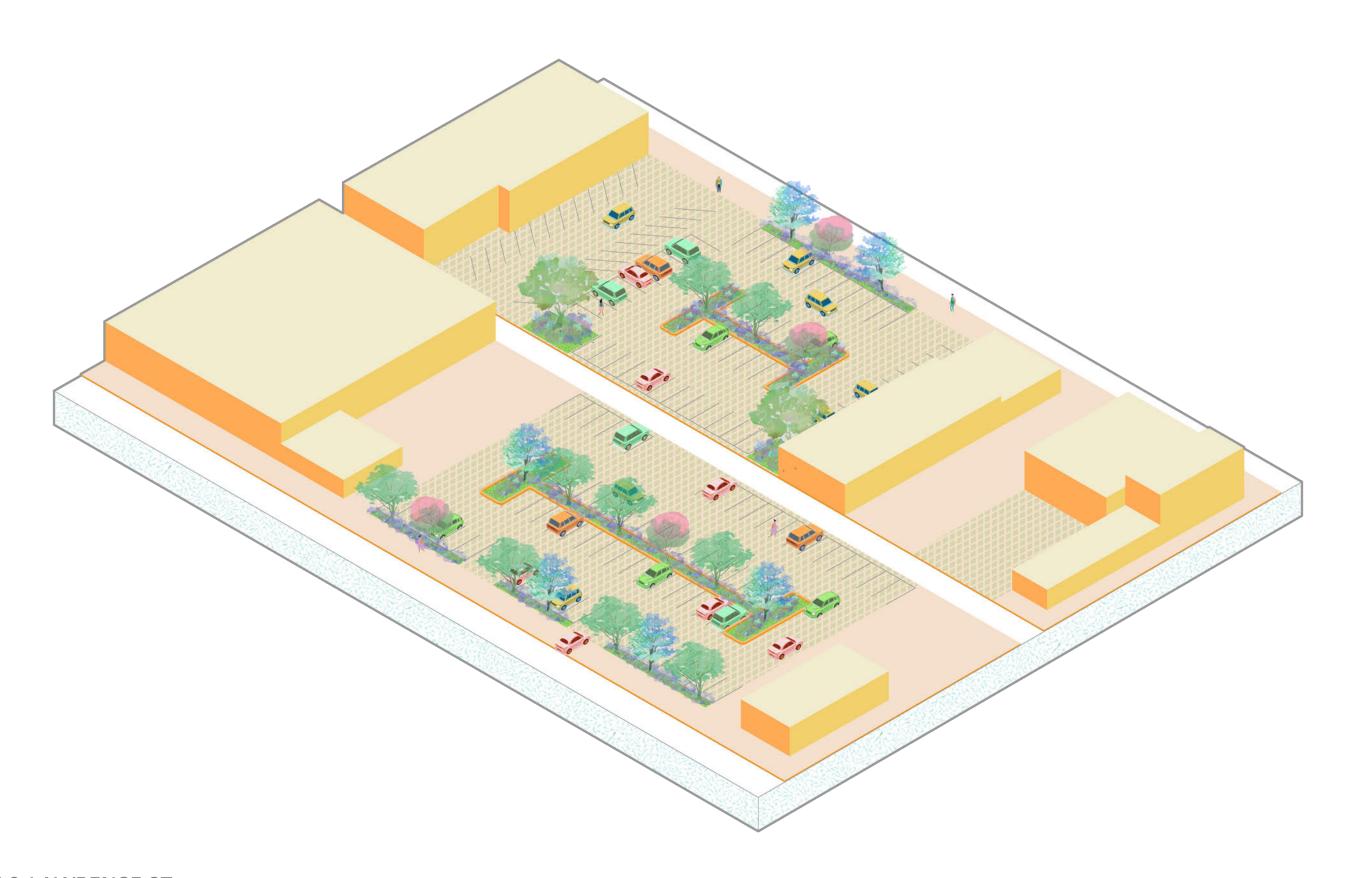
PROTOTYPE TYPOLOGIES – PARKING LOT



EXISTING CONDITIONS – PARKING LOT



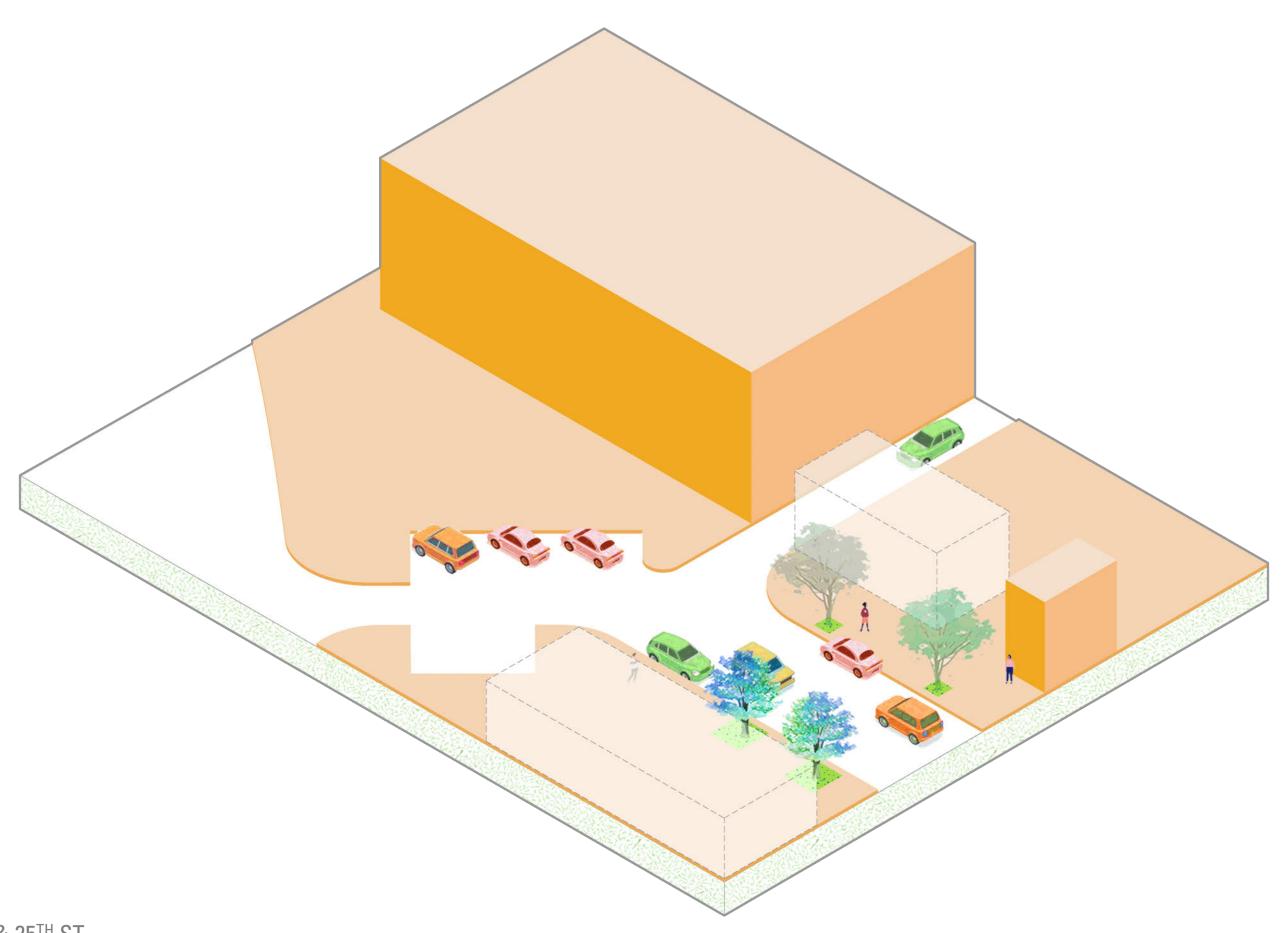
PROPOSED TYPOLOGIES - PARKING LOT



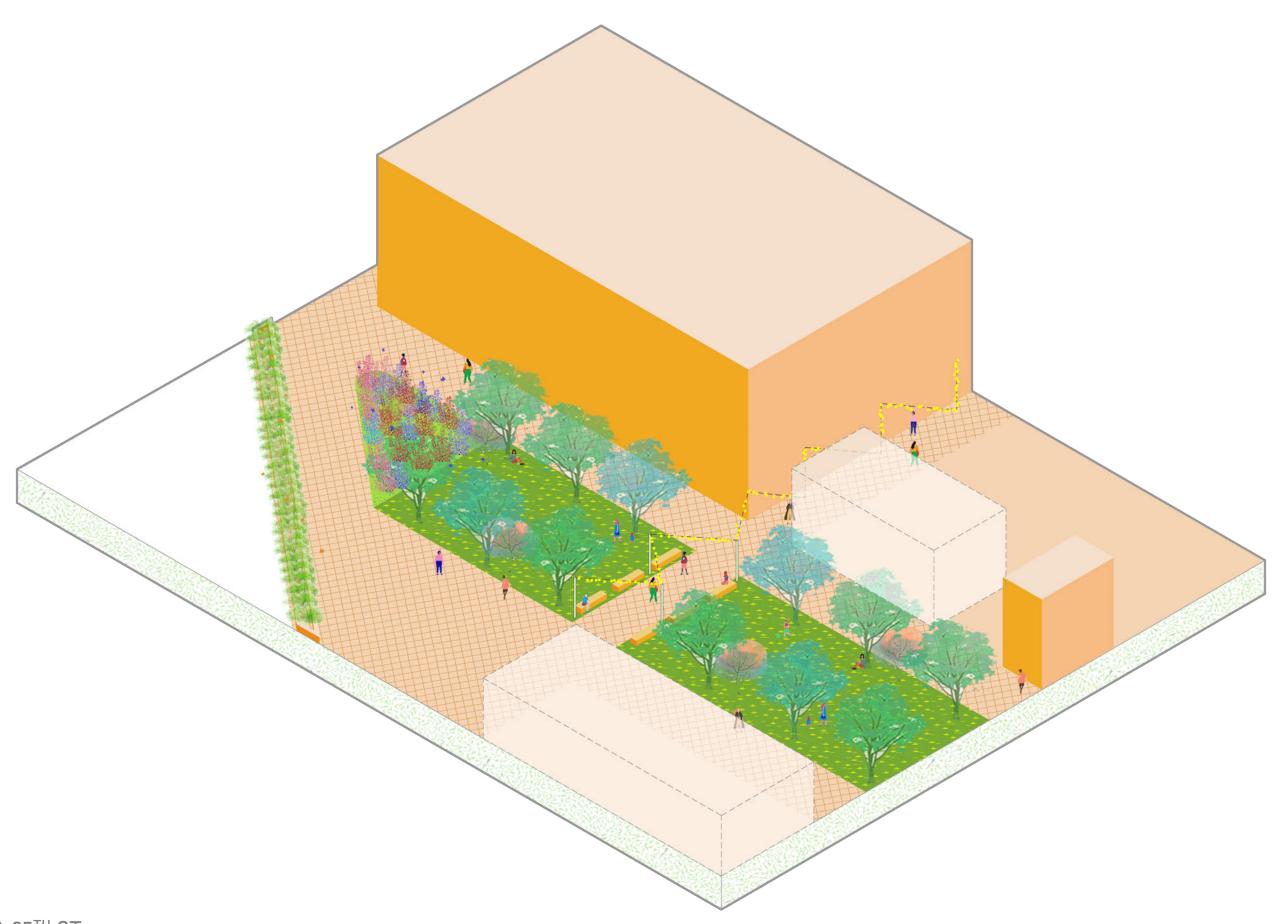
PROTOTYPE TYPOLOGIES – COMMERCIAL FRONTAGE



EXISTING CONDITIONS – COMMERCIAL FRONTAGE



PROPOSED TYPOLOGIES – COMMERCIAL FRONTAGE



PROPOSED METRICS



Number of affordable housing units: 259 Units/3 Properties



Number of trees: 8 trees/acre (increase by 2x)



Percent Impervious Cover: 28% (decrease by 9%)



Heat Vulnerability Score: 30 (decrease by 50%)



Number of Public Art Installations: 21 (decrease by 1)



Home Ownership: 25.6%



Historic Districts: 6



Transit: 9 Public Transit Lines



Number of Parks: 15 (increase by 90%)



CDC Social Vulnerability Index: 0.2 (decrease by 50%)



Acres of park land per 1k population: 5 (increase by 36%)

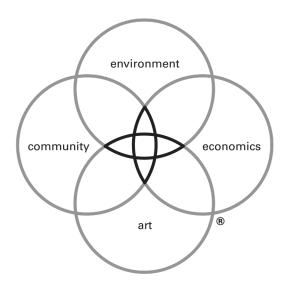


Acres of park land: 36 (increase by 72%)

PROJECT GOALS APPLICATIONS

traffic to local businesses

	COMMUNITY Facilitate community learning on green infrastructure & the environments Cultivate a sense of community through shared space Expose the community to nature through implementing native plants and strategies to attract and support wildlife	Green Infrastructure with signage, Workshops, Garden Varied intimate and larger gathering space, Pockets, Views Introduce native plantings
	ENVIRONMENT Implement green infrastructure strategies to manage stormwater in areas susceptible to flooding	 Pervious parking lots, Green business frontages
	Increase tree canopy cover and vegetation to improve human thermal comfort, air quality, and overall human health Introduce pollinator species in the neighborhood	 Streetscapes, Road diets, +27 trees Planters, Pollinator highway
000	ART Celebrate the industrial history by maintaining a local materials palette Celebrate the successional evolution and history of the neighborhood: past, present, and future	 Local artists + Community, (mural, painted seat walls, events) Small business spotlight, Multi-generational programming
	ECONOMICS Promote and identify P3 partnerships and investment opportunities Demonstrate value of green infrastructure to property owners Address restricted pedestrian mobility to increase human	Mobetta Green, Lincoln Hills Cares Projected money saved on gray infrastructure Road diets, Pedestrian friendly borders/pavement



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