



OAKLAND

ECONOMIC DEVELOPMENT
AND URBAN DESIGN STUDIES

OCTOBER 2020

Acknowledgments

City of Pittsburgh

William Peduto, Mayor

Andrew Dash, Director,
Department of City Planning

Derek Dauphin, Project Manager,
Department of City Planning

Sophie Robison, Project Coordinator,
Department of City Planning

Staff by Topic

COMMUNITY

Josiah Gilliam, Office of Mayor
William Peduto

Alyssa Lyon, Green Building Alliance

Sophie Robison, Department of City
Planning–Strategic Planning

DEVELOPMENT

Derek Dauphin, Department of City
Planning–Strategic Planning

Nick Fedorek, Urban Redevelopment
Authority

Allison Jones, Urban Redevelopment
Authority

MOBILITY

Dara Braitman, Department of
Mobility and Infrastructure

Breen Masciotra, Port Authority of
Allegheny County

INFRASTRUCTURE

Ben Grunauer, Pittsburgh Water and
Sewer Authority

Flore Marion, Department of
City Planning–Sustainability and
Resilience

Kara Smith, Department of City
Planning–Environmental Planning

Sarah Yeager, Department of
City Planning–Sustainability and
Resilience

Megan Zeigler, Green Building
Alliance

Planning Commission

Christine Mondor, Chairwoman

Lashawn Burton-Faulk, Vice
Chairwoman

Becky Mingo, Secretary

Jennifer Askey

Fred Brown

Dina Blackwell

Sabina Deitrick

Jean Holland Dick

Rachel O'Neill

Steering Committee

Allegheny County

Bellefield Area Citizens Association

Carlow University

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Community Human Services

Councilperson Kraus's Office

Councilperson Lavelle's

Councilperson Strassburger's Office

Faculty of Carlow University

Faculty of Carnegie Mellon
University

Faculty of University of Pittsburgh

InnovatePGH/Avenu

Oakcliffe Community Organization

Oakland Business Improvement
District (OBID)

Oakland Planning and Development
Corporation (OPDC)

Oakland Transportation
Management Association (OTMA)

Phipps Conservatory and Botanical
Gardens

Schenley Farms Civic Association

Soldiers & Sailors Memorial Hall &
Museum

South Oakland Neighborhood Group

State House Representative Frankel

State House Representative
Wheatley

State Senator Jay Costa

Students of Carlow University

Students of Carnegie Mellon
University

Students of University of Pittsburgh

University of Pittsburgh

University of Pittsburgh Medical
Center

West Oakland Neighborhood Council

Consultants

Goody Clancy

in collaboration with:

CHPlanning

Ninigret Partners

W-ZHA

A detailed topographic map of Oakland, California, serves as the background. The map features contour lines indicating elevation, a grid of streets, and the winding path of the Oakland River. Various neighborhoods are labeled in a light gray font, including Spring Garden, East Allegheny, Allegheny Center, Strip District, Polish Hill, Bedford Dwellings, Middle Hill, Terrace Village, Crawford-Roberts, Central Business District, South Shore, South Side Flats, West Oakland, Central Oakland, North Oakland, Shadyside, and Squirrel North. The text 'OAKLAND' is prominently displayed in a large, bold, dark blue font, partially overlapping the map.

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AUGUST 2020

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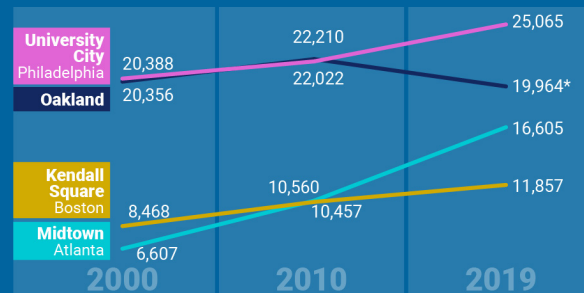
Due to low tree canopy and high impervious surface, Oakland is an urban heat island. 160

Despite neighboring one of the City's signature open spaces, Schenley Park, Oakland overall is underserved for park and open space given its density, access constraints, and the suitability of existing park space to community needs. 162

KEY TAKEAWAYS

Population Trends

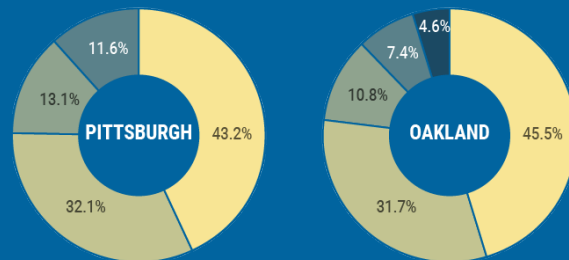
Oakland and National Innovation Neighborhoods, 2000–2019



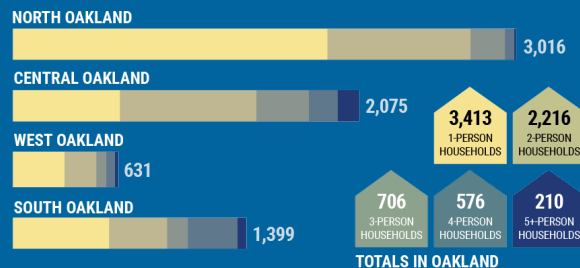
Households by Household Size

Pittsburgh and Oakland, 2018

1-person households 2-person households 3-person households
4-person households 5-person (or more) households



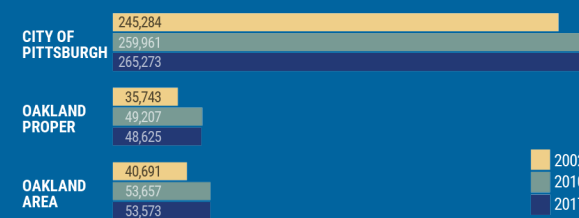
Oakland Areas, 2018



Source: U.S. Census 2000 and 2010; American Community Survey 2018 5-Year Estimates

Job Trends

The City, Oakland Proper and the Oakland Area | 2002–2017



Source: LEHD Origin-Destination Employment Statistics

Education and Healthcare Workers in Oakland



Source: LEHD Origin-Destination Employment Statistics

Oakland is 20% of Pittsburgh's overall job base, but 46% of its healthcare and education jobs.

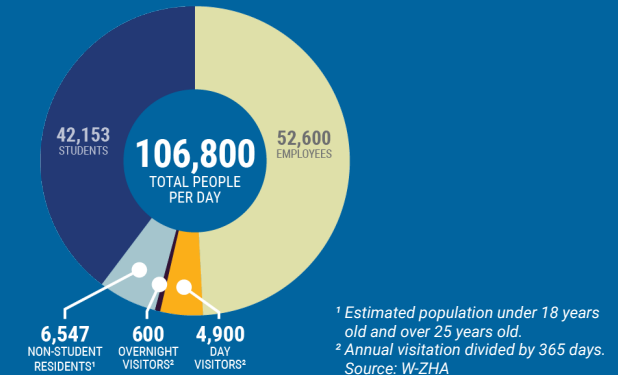
41,495 healthcare/education jobs

66% of all education jobs in Pittsburgh

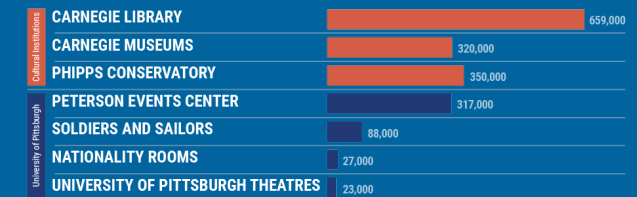
36% of all healthcare jobs in Pittsburgh

Daily Activity (During School Year)

Oakland, 2017



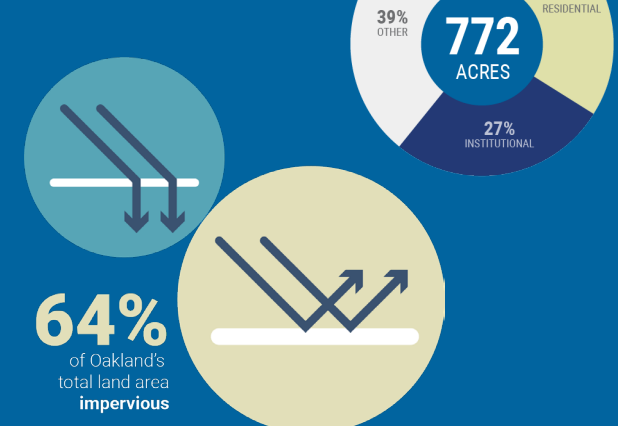
Annual Admissions to Oakland Attractions



Source: Oakland Business Improvement District, Retail Market Study (2015); University of Pittsburgh, Community and Governmental Relations; Visitorship confirmed in 2019 with organization representatives.

Top Land Uses in Oakland

Source: Land Use (2018), City of Pittsburgh



Acronyms and Abbreviations

AADT	Annual Average Daily Traffic
ACS	American Community Survey
ADA	Americans with Disabilities Act
AMI	Area Median Income
BRT	Bus Rapid Transit
CBD	Central Business District
CBRE	Coldwell Banker Richard Ellis
CMU	Carnegie Mellon University
CSO	Combined Sewer Overflow
DCP	Department of City Planning
DOMI	Department of Mobility and Infrastructure
FTE	Full-Time Equivalent
GAP	Great Allegheny Passage
HH	Household
HUD	Department of Housing and Urban Development
IMP	Institutional Master Plan
LED	Light-emitting diode
LEHD	Longitudinal Employer–Household Dynamics
LERTA	Local Economic Revitalization Tax Assistance
MARTA	Metropolitan Atlanta Rapid Transit Authority
MBTA	Massachusetts Bay Transportation Authority
MIT	Massachusetts Institute of Technology
MUH	Montefiore University Hospital
NCAA	National Collegiate Athletic Association
NICU	Neonatal Intensive Care Unit
NIH	National Institutes of Health
OBID	Oakland Business Improvement District
OPDC	Oakland Planning and Development Corporation
PADEP	Pennsylvania Department of Environmental Protection
Pitt	University of Pittsburgh
PNC	PNC Financial Group Services
PTC	Pittsburgh Technology Center
PUH	Presbyterian University Hospital
PWSA	Pittsburgh Water & Sewer Authority
R&D	Research & Development
TBD	To be determined
TDM	Transportation Demand Management
UC	Under-Construction
URA	Urban Redevelopment Authority of Pittsburgh
UPMC	University of Pittsburgh Medical Center
VA	Veteran Affairs
WPIC	Western Psychiatric Institute and Clinic

INTRODUCTION

Purpose

This Existing Conditions Report for the Oakland Plan provides a common set of tools, baselines, and data for discussion during the neighborhood plan process, based on a variety of sources including the Census, market transactions, City and County data sources, site surveys, and analysis. Community members and participants will bring their own experiences, needs, history, and deeper understanding to many topics that data cannot fully address.

The City of Pittsburgh, led by the Department of City Planning (DCP) is working with the Oakland community to create a 10-year plan with a shared vision for Oakland's future and the projects and programs necessary to make that vision a reality.

Once adopted by the Planning Commission, the Oakland Plan will become City policy and guide public and private investments in the area. New land use regulations, transportation and infrastructure improvements, and public programs may also be recommended by the plan. The plan area generally includes the areas of North Oakland, Central Oakland, South Oakland, and West Oakland.



PHOTO COURTESY OF THE UNIVERSITY OF PITTSBURGH

The City of Pittsburgh conducts planning efforts based on the Neighborhood Plan Guide, which establishes standards for plans that will be adopted by the City Planning Commission. The Oakland Plan will establish vision statements that provide a shared description of what the neighborhood will be in 10 years if the plan is successful and determine goals that the plan will achieve by implementing programs, policies, and projects.

More information about this guide can be found at: <https://pittsburghpa.gov/dcp/neighborhood-planning-guide>.

The Oakland Plan will address a core set of topics, including: Community, Development, Mobility, and Infrastructure. The Community topic focuses on meeting the needs of residents, employees, students, and stakeholders. The Development section focuses on maximizing the benefits of new development for the community. The Mobility section focuses on making it easier, safer, and healthier for people to get around. The Infrastructure section focuses on nourishing neighborhoods through new energy, stormwater, and open space systems.

The Department of Mobility and Infrastructure (DOMI) will be leading additional planning work for the Mobility Chapter to address transportation, in its various forms, and parking. As part of that effort, DOMI and its consultants will be collecting and analyzing new data on commute and travel patterns, parking, and transit use in the Oakland area to support a well-connected, safe, accessible, and multi-modal Oakland. Independent of this

planning effort, DOMI and DCP will be conducting long-term, citywide planning efforts, including the 2070 Mobility Plan and Citywide Comprehensive Plan, that may offer additional context for the Oakland Plan and spur new ideas and evaluation during the community planning process.

The open data tools and analysis provided through the Western Pennsylvania Regional Data Center were an essential data source for this report and ongoing tool for community evaluation and analysis. Additional resources provided by the data center can be found: <http://www.wprdc.org/>.

Previous Planning Studies

This Existing Conditions Report builds upon the findings of recommendations of several community planning efforts and research, including, among others:

- The Oakland Plan 2025 (Oakland Planning and Development Corporation, 2010)
- Innovation Oakland (2010)
- Oakland Retail Market Study (Oakland Business Improvement District, 2015)
- Green First Plan (Pittsburgh Water & Sewer Authority, 2016)
- Capturing the next economy: Pittsburgh's rise as a global innovation City (Brookings Institute Report, 2017)

In addition to several citywide planning and community development initiatives, including, among others:

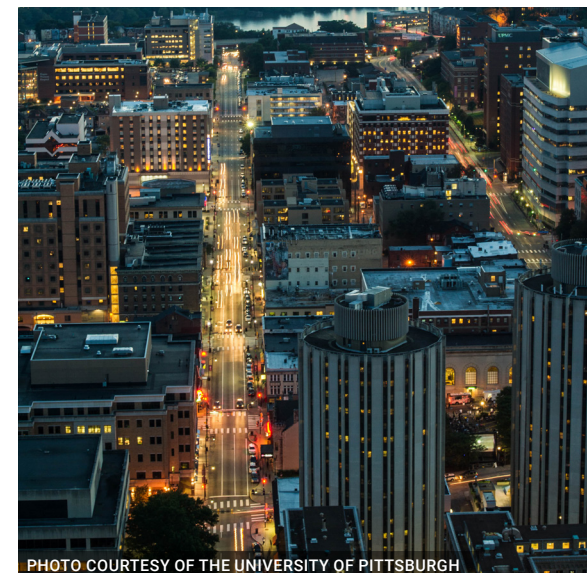


PHOTO COURTESY OF THE UNIVERSITY OF PITTSBURGH

- The Affordable Housing Task Force Report (2016)
- City Steps Master Plan (2017)
- Open Space PGH (2013)
- Preserve PGH (2012)

Many community members, stakeholders, and leaders who participated in the neighborhood planning process and offered their expertise as part of interviews to inform this report.

CHAPTER FOUR:

URBAN DESIGN AND DEVELOPMENT

Key Takeaways

- **This chapter addresses Oakland's urban form – its context of sites, buildings, streets and public places – as physical places of activity and identity.**
- **Oakland's urban form is highly developed, dense, and complex. In the foreseeable future, urban form changes may occur on relatively few sites, but with prominent impacts.**
 - This density and complexity is inherent to its longtime success as a place attracting people to live, work, learn, and play, but is also responsible for internal tensions.
 - There is great variation in types and levels of activity, topography, building scale, eras of development, character of streets and public spaces, place identity. That said, residential and institutional uses dominate, together occupying over 60% of land area, with residential occupying modestly more land area than institutional uses.
- There is redevelopment pressure on certain parcels that are relatively small in number and total area, but high in impact in terms of visibility and potential intensity of use. These are mainly along prominent corridors including Fifth, Forbes, Boulevard of the Allies, and Baum, but also adjoin traditional neighborhoods.
- There is a significant body of regulatory policy that helps manage development in a predictable manner. Zoning, Institutional Master Plans, and related development regulations aim to balance owner opportunities to realize property value, with minimizing negative impacts and promoting positive impacts on the broader community of stakeholders. There may be potential to update this regulatory policy to more effectively support Oakland's vision for its future.
- **Oakland's urban form is full of outstanding assets, from overall development patterns to individual facilities, and yet its qualities of place are compromised in some important ways.**
 - The impact of accommodating vehicle traffic, parking, and servicing – at levels not present or anticipated when Oakland was originally developed – detracts from Oakland's qualities as a place for people.
 - Despite some outstanding park resources in or adjacent to Oakland, much of Oakland is underserved by parks, and its streets offer scant tree canopy, compromising human comfort.
 - Difficult scale and/or land use transitions occur among some traditional residential, institutional, and/or commercial uses.

Oakland Urban Character Typology Areas

Overview of Typology Categories

Oakland varies considerably in its character, with a wide variety of conditions influenced by street design and traffic levels, the scale, use, ownership and age of buildings, and the character of unbuilt site areas that may contain parks, other landscaping, parking, or woodlands. The following diagram identifies 15 distinct character areas in Oakland (some present in more than one location), and the accompanying tables summarize their major characteristics. In some cases, the areas have important relationships with adjacent areas outside of the Oakland study area, as noted. Portions of West Oakland west of the convergence of Fifth Avenue, Forbes Avenue, and Boulevard of the Allies are not addressed here. Refer to the Uptown/West Oakland Ecolnnovation Plan which covers this area in detail.

To inform planning that may seek to promote or prevent changes, the tables include an overview of the potential for change of streets, public places, and development parcels – whether driven by current trends or a known desire for change. Selected Points of Discussion on potential change are highlighted.

NEIGHBORHOOD CHARACTER AREAS

Predominantly residential areas with small to moderate scale homes, originally built to serve non-student households



DISTRICT CHARACTER AREAS

Mix of residential, commercial, institutional and/or light industrial uses. Building type and height diverse in most areas, more consistent in others



CORRIDOR CHARACTER AREAS

Development patterns and urban form heavily influenced by role of street as important transportation corridor. Development frontage predominantly commercial, institutional, or light industrial and highly varied; pedestrian environment challenging; frequent potential or desirability for change



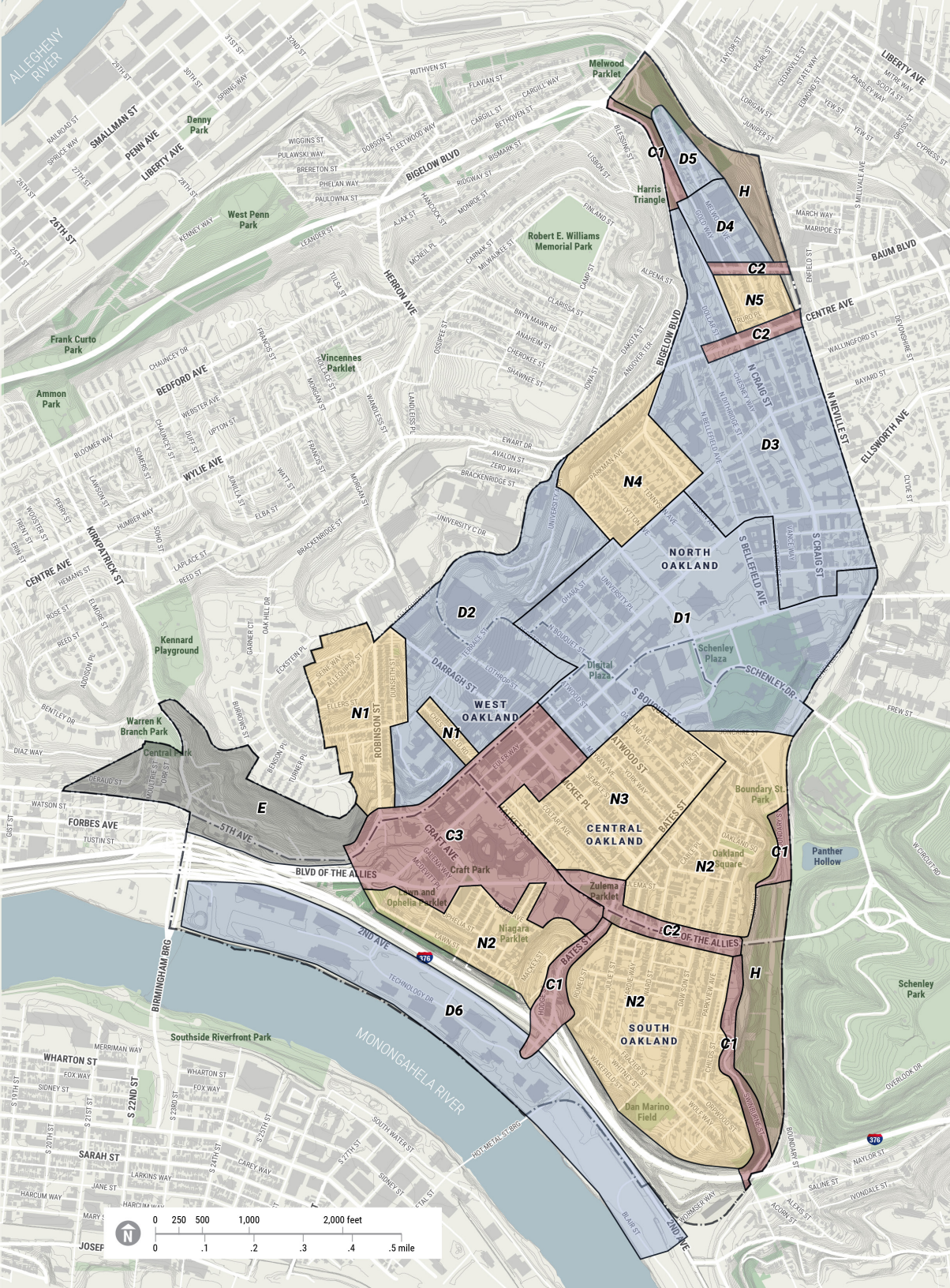
HILLSIDE CHARACTER AREAS

Areas of steep topography that traditionally have not been feasible for development. Mostly wooded, with some street corridors passing through.



Urban Character Typology Areas

- Corridors: C1, C2, C3
- Neighborhoods: N1, N2, N3, N4, N5
- Districts: D1, D2, D3, D4, D5, D6
- Hillside: H
- Area addressed by Uptown/West Oakland Ecoinnovation District Plan: E

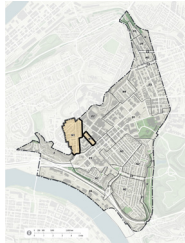


NEIGHBORHOOD CHARACTER AREAS

Predominantly residential areas with small to moderate scale homes, originally built to serve non-student households

N1 West Oakland Hilltop

(Chesterfield Street slightly separated from rest of area)



Predominant Characteristics	Potential for Change – Streets and Public Places	Potential for Change – Development Parcels	Street Typology <i>Predominant Present</i>	Zoning Districts <i>Predominant Present</i>	Building Typology	Points of Discussion
Traditional residential neighborhood with mix of vernacular homes. Contiguous with redeveloped Oak Hill public housing in Hill neighborhood. Distinctive streets with sweeping views running across and along hillside contours.	Limited	Generally stable building stock including traditional single- and small multi-family homes. Some vacant parcels available for redevelopment. Community concern about household displacement from student and/or general housing market.	Traditional Residential	R1A-H, R1A, LNC	Traditional single- and small multi-family homes, rowhouses, 4-story garden apartments. Small neighborhood retail and church buildings at Robinson & Terrace Streets. Firehouse at Allequippa and Whitridge Streets.	Is there a need for greater connection to other neighborhood areas in Oakland and the Hill?

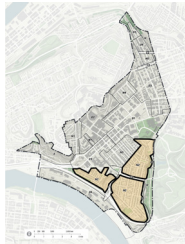


NEIGHBORHOOD CHARACTER AREAS

Predominantly residential areas with small to moderate scale homes, originally built to serve non-student households

N2 South and East Central Oakland

(Three sub-areas separated by street corridors and topography)



Predominant Characteristics	Potential for Change – Streets and Public Places	Potential for Change – Development Parcels	Street Typology <i>Predominant Present</i>	Zoning Districts <i>Predominant Present</i>	Building Typology	Points of Discussion
Traditional residential neighborhood with variety of single- and small multifamily housing types. Student residents present but not so dominant as in area N3. Limited neighborhood services, primarily located along Semple Street and certain corners of Bates, Boulevard of the Allies. See character area C2 for Zulema Park, a centrally located amenity for the N2 area.	Desirable changes to poor public realm conditions that fracture the neighborhood include: pedestrian and bike improvements along Boulevard of the Allies; widespread planting of street trees where missing (utilities and scarce space present challenges); traffic mitigation along Bates. See character area C2 for desirable Zulema Park improvements.	Continued student housing market pressure may displace non-student residents. Previous planning suggests that community members would welcome change of non-residential parcels along Boulevard of the Allies to new development with expanded housing and/or neighborhood service options. Neighborhood retail district along Semple Street could be reinforced through physical improvements and/or additional businesses. Poor maintenance and management of rental housing a concern. Local historic district at Oakland Square helps preserve physical character.	Traditional Residential Autocentric Mixed-Use (Boulevard of the Allies) Neighborhood Mixed-Use (Bates)	R1A-VH, R1A-H, Oakland Square local historic district	Traditional single- and small multi-family homes, rowhouses, 4-story garden apartments. Most retail is in small mixed-use buildings with housing above; some single-use retail. Some religious and commercial buildings in dispersed locations.	Are there strategies at hand that could maintain area N2 as a neighborhood inhabited primarily by longer-term residents, not college students? What improvements to streets, green spaces, services, or other elements would do the most to improve neighborhood quality of life?

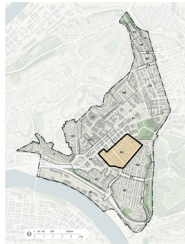


NEIGHBORHOOD CHARACTER AREAS

Predominantly residential areas with small to moderate scale homes, originally built to serve non-student households

N3

Central Oakland



Predominant Characteristics	Potential for Change – Streets and Public Places	Potential for Change – Development Parcels	Street Typology <i>Predominant Present</i>	Zoning Districts <i>Predominant Present</i>	Building Typology	Points of Discussion
Traditional residential neighborhood with variety of single- and small multifamily housing types. Student residents predominate due to Pitt campus proximity. Neighborhood retail prevalent on Atwood Street. See character area C2 for Zulema Park, an amenity for the N3 area.	Desirable changes to poor public realm conditions include: widespread planting of street trees where missing (utilities and scarce space present challenges); traffic mitigation along Bates; improved access to park space in or near the area. New pedestrian connections and walkability improvements parallel to Forbes desirable where missing (such as between Atwood and Bouquet Streets) to reduce barrier of long blocks. See character area C2 for desirable Zulema Park improvements.	Dominant housing occupancy by college students expected to continue and intensify. Redevelopment pressure likely on underutilized sites adjoining Forbes corridor. Redevelopment could be leveraged to improve urban design transitions and address land use priorities (potentially housing options, research space, and/or other uses). Bouquet Gardens student housing to be redeveloped by Pitt with additional student housing. Community concerns include poor maintenance and management of private rental housing, and commuter parking on residential parcels.	Traditional Residential Neighborhood Mixed-Use (Bates) Service Alley (Iroquois, Fresco, Sennett)	R3-M, R1A-H, RM-H, R2-H, LNC	Traditional single- and small multifamily homes, rowhouses, 4-story garden apartments. Most retail is in small mixed-use buildings with housing above; some single-use retail. Firehouse and OPDC community center on Semple Street and McKee Place at Louisa Street.	Could higher-density residential development (for students and/or non-students) on selected sites provide useful benefits for Oakland as a whole?

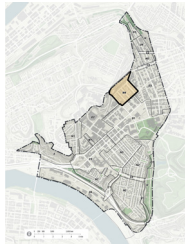


NEIGHBORHOOD CHARACTER AREAS

Predominantly residential areas with small to moderate scale homes, originally built to serve non-student households

N4

Schenley Farms



Predominant Characteristics	Potential for Change – Streets and Public Places	Potential for Change – Development Parcels	Street Typology <i>Predominant Present</i>	Zoning Districts <i>Predominant Present</i>	Building Typology	Points of Discussion
Traditional residential neighborhood, with its own dedicated historic district	Limited. Improved crosswalks may be desirable at bus stops at Alequippa Street/ University Drive A intersection	Limited; local/national historic district helps preserve physical character.	Traditional Residential	R1D-L	Principally large single family detached homes; several religious or social institutions.	Is Schenley Farms' historic character at risk? Could this character be leveraged to enhance neighboring areas?



NEIGHBORHOOD CHARACTER AREAS

Predominantly residential areas with small to moderate scale homes, originally built to serve non-student households

N5 Upper Crain & Melwood



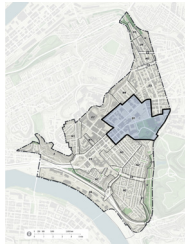
Predominant Characteristics	Potential for Change – Streets and Public Places	Potential for Change – Development Parcels	Street Typology <i>Predominant Present</i>	Zoning Districts <i>Predominant Present</i>	Building Typology	Points of Discussion
Traditional residential neighborhood with variety of single and small multifamily buildings.	Limited. Additional street trees desirable where missing.	Some potential for higher-density redevelopment of parking areas and/or parcels aggregated with adjacent commercial corridors.	Traditional Residential	R3-M	Mix of large single-family and three-unit apartment buildings, two to three stories.	With significant institutional, commercial, and student residential redevelopment taking place on nearby Centre Avenue and Baum Boulevard sites, is this neighborhood area vulnerable to major change? What qualities should be maintained?



DISTRICT CHARACTER AREAS

Mix of residential, commercial, institutional and/or light industrial uses. Building type and height diverse in most areas, more consistent in others

D1 Cultural Hub: Schenley Plaza University of Pittsburgh core campus, Carnegie Museums and Library



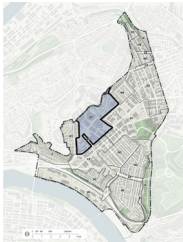
Predominant Characteristics	Potential for Change – Streets and Public Places	Potential for Change – Development Parcels	Street Typology <i>Predominant Present</i>	Zoning Districts <i>Predominant Present</i>	Building Typology	Points of Discussion
An historic center for destination civic activities serving Pittsburgh and the region, as well as the bustling center of the Pitt campus.	Streetscape, pedestrian safety, and pocket park improvements desirable where lacking. Redevelopment along south edges of Forbes and Fifth could significantly reduce access to direct sun on sidewalks along the north side of these streets. Significant academic development planned by Pitt along O'Hara/Bigelow corridor and on other selected sites could change street character.	Underdeveloped parcels along Forbes are targeted for redevelopment by Pitt and private student housing and research redevelopment. Smaller parcels are being aggregated to create larger redevelopment sites. Properties on these parcels with historic and/or other cultural value may be vulnerable. Opportunity to rebuild Parking Authority structure at Forbes/Meyran and include other uses. Oakland Civic Center local/national historic district helps preserve physical character.	Civic Destination Neighborhood Mixed-Use Urban Mixed-Use – Pedestrian Amenities Urban Mixed-Use – Pedestrian Challenges Service Alley Institutional Campus – Pedestrian Amenities Institutional Campus – Pedestrian Challenges	EMI, OPR-C, Oakland Civic Center local/national historic district	Mix of larger, formal institutional buildings serving educational and cultural uses, and smaller commercial buildings with storefront retail lining certain blocks of Forbes Avenue and adjoining streets. Distinct and historic architectural character present for some buildings.	What sites and land uses are most desirable for redevelopment to add valuable urban design qualities or activities? Where should redevelopment be prevented?



DISTRICT CHARACTER AREAS

Mix of residential, commercial, institutional and/or light industrial uses. Building type and height diverse in most areas, more consistent in others

D2 Medical and Hillside campus area



Predominant Characteristics	Potential for Change – Streets and Public Places	Potential for Change – Development Parcels	Street Typology <i>Predominant Present</i>	Zoning Districts <i>Predominant Present</i>	Building Typology	Points of Discussion
Exclusively institutional campus development (Pitt, UPMC, Carlow) stretching from Fifth Avenue up steep hillsides to hilltop with panoramic views	5th Avenue BRT will bring station and lane changes. Enhanced streetscape with street trees, improved pedestrian buffers, and active, visible ground floor building program highly desirable on all streets. Sloped streets present challenges for pedestrian-friendly building frontage.	Pitt and UPMC properties heavily developed already. Specific building development & renovation projects planned as part of Pitt campus master plan. Carlow plans joint private/campus development at St. Agnes site. Terrace Street development influenced by agreements between Carlow and community.	Institutional Campus – Pedestrian Amenities Institutional Campus – Pedestrian Challenges	EMI	Large, often interconnected institutional buildings serving educational and medical uses. Building service areas and structured parking dominate some street segments.	Are there project opportunities that would both advance institutional goals and enhance streets and green spaces as welcoming, safe places for people?

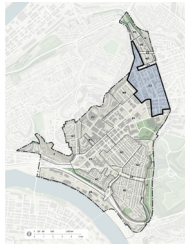


DISTRICT CHARACTER AREAS

Mix of residential, commercial, institutional and/or light industrial uses. Building type and height diverse in most areas, more consistent in others

D3

North Oakland



Predominant Characteristics	Potential for Change – Streets and Public Places	Potential for Change – Development Parcels	Street Typology <i>Predominant Present</i>	Zoning Districts <i>Predominant Present</i>	Building Typology	Points of Discussion
Not only a higher-density residential neighborhood with significant graduate student population, North Oakland is home to several community religious and educational institutions, and clusters of retail and restaurants.	North-south streets generally have good pedestrian infrastructure, except for northern blocks of North Craig meriting street trees and other traffic buffers. East-west streets – particularly Centre, Bayard and Fifth – have busy vehicular traffic and merit improved pedestrian conditions such as street trees and enhanced street crossings.	District is heavily developed with numerous high-rise residences and large institutional buildings. Several dispersed parking lots and lightly-developed parcels adjoining Centre St corridor could present redevelopment opportunities – (recent One on Centre apartment tower is one example).	Neighborhood Mixed-Use Mid-rise Multifamily Residential Urban Core Mixed-use – Pedestrian Challenges Traditional Residential Autocentric Mixed-use	EMI, OPR-B, RIA-H, RM-VH, SP-7, OPR-B	North of Fifth Avenue, mix of multifamily residential buildings five to 20 stories tall, smaller two to three story single and multifamily residential, and institutional buildings serving religious and education uses (most not affiliated with area universities). Smaller-scale mixed retail, commercial, and residential buildings present south of Fifth Avenue.	Might some sites attract redevelopment with high-value residential, institutional, private research, or other uses? Would this present an opportunity or challenge for North Oakland?

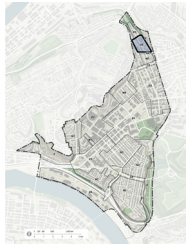


DISTRICT CHARACTER AREAS

Mix of residential, commercial, institutional and/or light industrial uses. Building type and height diverse in most areas, more consistent in others

D4

Melwood Factory District



Predominant Characteristics	Potential for Change – Streets and Public Places	Potential for Change – Development Parcels	Street Typology <i>Predominant Present</i>	Zoning Districts <i>Predominant Present</i>	Building Typology	Points of Discussion
Low-rise industrial buildings with active mix of commercial, university, health care, and arts uses.	Sidewalks needed at several driveway gaps. Street trees, public art and/or other pedestrian amenity highly desirable.	Industrial buildings reflect mixed occupancy, with some adapted for institutional or arts use while others maintain light industry or auto-oriented use. Proximate to recent intensive research and residential development along Baum and Centre corridors. Two-story buildings and commercial uses may present compelling opportunity for higher-density, higher-value redevelopment. CMU and UPMC have recently invested in parcels in the area.	Revitalization/ Transitional Service Alley	UI	Vernacular brick industrial and warehouse buildings, one to two stories tall. Most converted to non-industrial uses.	Is this an appropriate place for more intensive development serving innovation? Should existing historic character, arts uses, or other qualities be preserved in face of potential change?

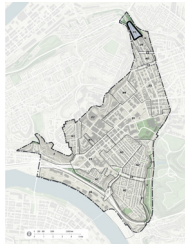


DISTRICT CHARACTER AREAS

Mix of residential, commercial, institutional and/or light industrial uses. Building type and height diverse in most areas, more consistent in others

D5

Melwood Mixed-Use



Predominant Characteristics	Potential for Change – Streets and Public Places	Potential for Change – Development Parcels	Street Typology <i>Predominant Present</i>	Zoning Districts <i>Predominant Present</i>	Building Typology	Points of Discussion
Mix of small industrial and residential parcels	Sidewalks needed at several driveway gaps. Gold Way/Melwood Avenue connection to north may merit improvement or traffic calming depending on context sensitivity.	Industrial and/or residential properties may present redevelopment opportunity if aggregated. Otherwise, small parcels and residential presence likely to limit change.	Revitalization/ Transitional Service Alley	UI	Mix of vernacular single family homes and small light industrial or commercial buildings, one to two stories.	Is this an appropriate place for more intensive development serving innovation? Are there existing qualities that should be preserved?



DISTRICT CHARACTER AREAS

Mix of residential, commercial, institutional and/or light industrial uses. Building type and height diverse in most areas, more consistent in others

D6 Monongahela Riverfront



Predominant Characteristics	Potential for Change – Streets and Public Places	Potential for Change – Development Parcels	Street Typology <i>Predominant Present</i>	Zoning Districts <i>Predominant Present</i>	Building Typology	Points of Discussion
Newly developed office and research space with river and trail amenity and substantial mixed-use development potential, but access and service constraints	Auto-oriented streets require pedestrian streetscape improvements to support mixed-use walkable setting. Three Rivers Heritage Trail would be more useful with more frequent access points.	Several undeveloped sites offer substantial development opportunity. Pedestrian-oriented ground level use and design desirable, particularly around Technology Drive access from Second Avenue.	Autocentric mixed-use Vehicular corridor with development constraints	SP-1	Institutional and commercial office and hotel buildings up to six stories, and two free-standing parking structures. Current development all built since 1990 on site of former smelting works.	Would improved access options, amenities, and/or other improvements attract development that could pose benefits to Oakland as a whole?



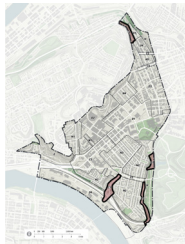
CORRIDOR CHARACTER AREAS

Development patterns and urban form heavily influenced by role of street as important transportation corridor. Development frontage predominantly commercial, institutional, or light industrial and highly varied; pedestrian environment challenging; frequent potential or desirability for change

C1

Hillside Roadway

(4 instances in study area)



Predominant Characteristics	Potential for Change – Streets and Public Places	Potential for Change – Development Parcels	Street Typology <i>Predominant Present</i>	Zoning Districts <i>Predominant Present</i>	Building Typology	Points of Discussion
Street corridor running across steep hillsides, typically amidst wooded undeveloped land.	Swinburne Street requires addition of a sidewalk or alternative parallel hillside trail/path. Informal parking along Boundary Street may merit reconfiguration. Buffers and removal of overgrown vegetation desirable to improve sidewalks along fast/heavy traffic on Fifth, Bates, Bigelow.	No significant development parcels present	Vehicular corridor with development constraints		Generally undeveloped; occasional small residential or commercial buildings; large former industrial building with self-storage on Bigelow at Bloomfield Bridge.	Are improved transit, biking, or walking facilities warranted to expand Oakland's access options?



CORRIDOR CHARACTER AREAS

Development patterns and urban form heavily influenced by role of street as important transportation corridor. Development frontage predominantly commercial, institutional, or light industrial and highly varied; pedestrian environment challenging; frequent potential or desirability for change

C2 Neighborhood Commercial Corridor (3 instances in study area)



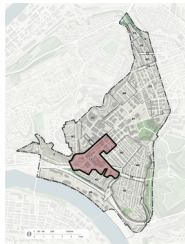
Predominant Characteristics	Potential for Change – Streets and Public Places	Potential for Change – Development Parcels	Street Typology <i>Predominant Present</i>	Zoning Districts <i>Predominant Present</i>	Building Typology	Points of Discussion
Traditional commercial corridors with wide variety of neighborhood and/or regional service destinations, mixed with some residential and institutional use. Through-traffic tends to overwhelm adjoining neighborhood character, especially along Boulevard of the Allies and Baum Boulevard segments. Most parcels are small, limiting redevelopment options.	Roadways, especially Fifth Ave, Boulevard of the Allies and Baum Boulevard (all numbered state highways), are primarily designed for vehicle flow and offer poor pedestrian amenity/safety. Along Boulevard of the Allies, past plans and current conditions suggest changes to poor public realm conditions including pedestrian and bike improvements, and transformation of Zulema Park into a more accessible, useable neighborhood park serving the N2 and N3 neighborhood areas.	More pedestrian-friendly building frontage and neighborhood-serving uses desirable along all corridors. Past plans suggest community interest in expanded presence of neighborhood retail and services on sites around Zulema Park. Larger parcels along Baum Blvd. could accommodate additional development intensity as part of Melwood Factory District. Most other corridor parcels likely face redevelopment constraints owing to small size or fragmented ownership, though aggregation and/or omission of on-site parking would open options.	Neighborhood Mixed-use Autocentric Mixed-use Revitalization/Transitional	UPR-B, OPR-D, OPR-B	Primarily one to three story commercial and auto service buildings; some residential on upper floors and on dedicated parcels; occasional religious buildings.	What changes would best help these corridors connect, rather than divide, the neighborhood and district areas to either side of them?



CORRIDOR CHARACTER AREAS

Development patterns and urban form heavily influenced by role of street as important transportation corridor. Development frontage predominantly commercial, institutional, or light industrial and highly varied; pedestrian environment challenging; frequent potential or desirability for change

C3 West Oakland Gateway Corridors



Predominant Characteristics	Potential for Change – Streets and Public Places	Potential for Change – Development Parcels	Street Typology <i>Predominant Present</i>	Zoning Districts <i>Predominant Present</i>	Building Typology	Points of Discussion
Highly varied area where the urban form of Oakland's core transitions to scale of busy highways and regional vistas over the Monongahela valley. Urban form of development and streets predominantly oriented to vehicles, not people. Potential for redevelopment of underutilized parcels and/or streetscape improvements to transform character.	Pedestrian-friendly streetscape and crossing improvements highly desirable along all corridors in this area, particularly Fifth, Forbes, and Boulevard of the Allies. Landmark public space highly desirable between Fifth and Forbes near Craft Avenue (as recommended in Oakland 2025 Plan) to establish sense of place in this western subdistrict of Oakland.	Area contains some of Oakland's largest and most visible underutilized sites offering apparent development opportunities. Large recent development projects in the area include SkyVue Apartments, Residence Inn, Bridge on Forbes, and Craft Place. With new development and improved public realm, this area could gain a more distinct identity and market position, and/or become a coherent part of the Cultural Hub (D1) or other adjacent areas.	Urban Core Mixed-use – Pedestrian Challenges Revitalization/ transitional Autocentric Mixed-use Institutional Campus – Pedestrian Amenities Institutional Campus – Pedestrian Challenges	EMI, OPR-D, OPR-C	Eclectic mix of large institutional medical, vernacular commercial, hotel, and multifamily residential buildings. Broad age range from century old to brand-new.	What are the most important opportunities to transform this area's fragmentation into strong internal cohesion and beneficial connections with adjacent areas?

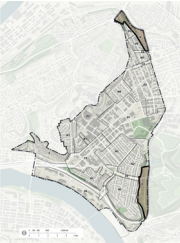


HILLSIDE CHARACTER AREAS

Areas of steep topography that traditionally have not been feasible for development. Mostly wooded, with some street corridors passing through.

H

Hillside



Predominant Characteristics	Potential for Change – Streets and Public Places	Potential for Change – Development Parcels	Street Typology <i>Predominant Present</i>	Zoning Districts <i>Predominant Present</i>	Building Typology	Points of Discussion
Steep topography traditionally prevented development. Hillsides commonly protected as conservation areas. Auto-dominated streets moving between more urban development areas.	Limited. Improved bike and/or pedestrian infrastructure desirable in selected areas to unify broader network.			H	No buildings typically present.	Do Hillside areas offer additional opportunities to support resilience, recreation, or access choices?



Urban Character Typology Areas with Zoning District Overlay

Corridors: C1, C2, C3

Neighborhoods: N1, N2, N3, N4, N5

Districts: D1, D2, D3, D4, D5, D6

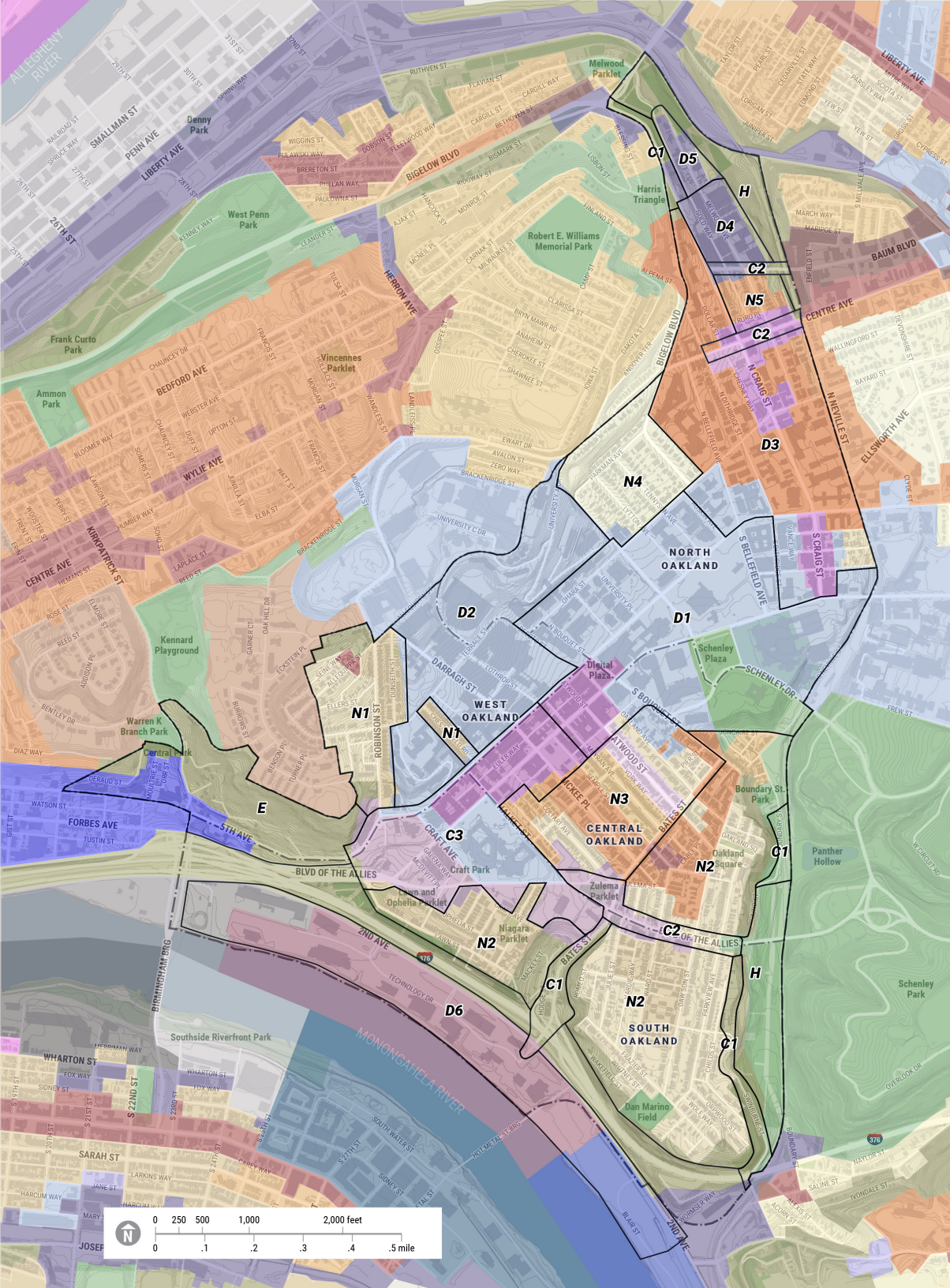
Hillside: H

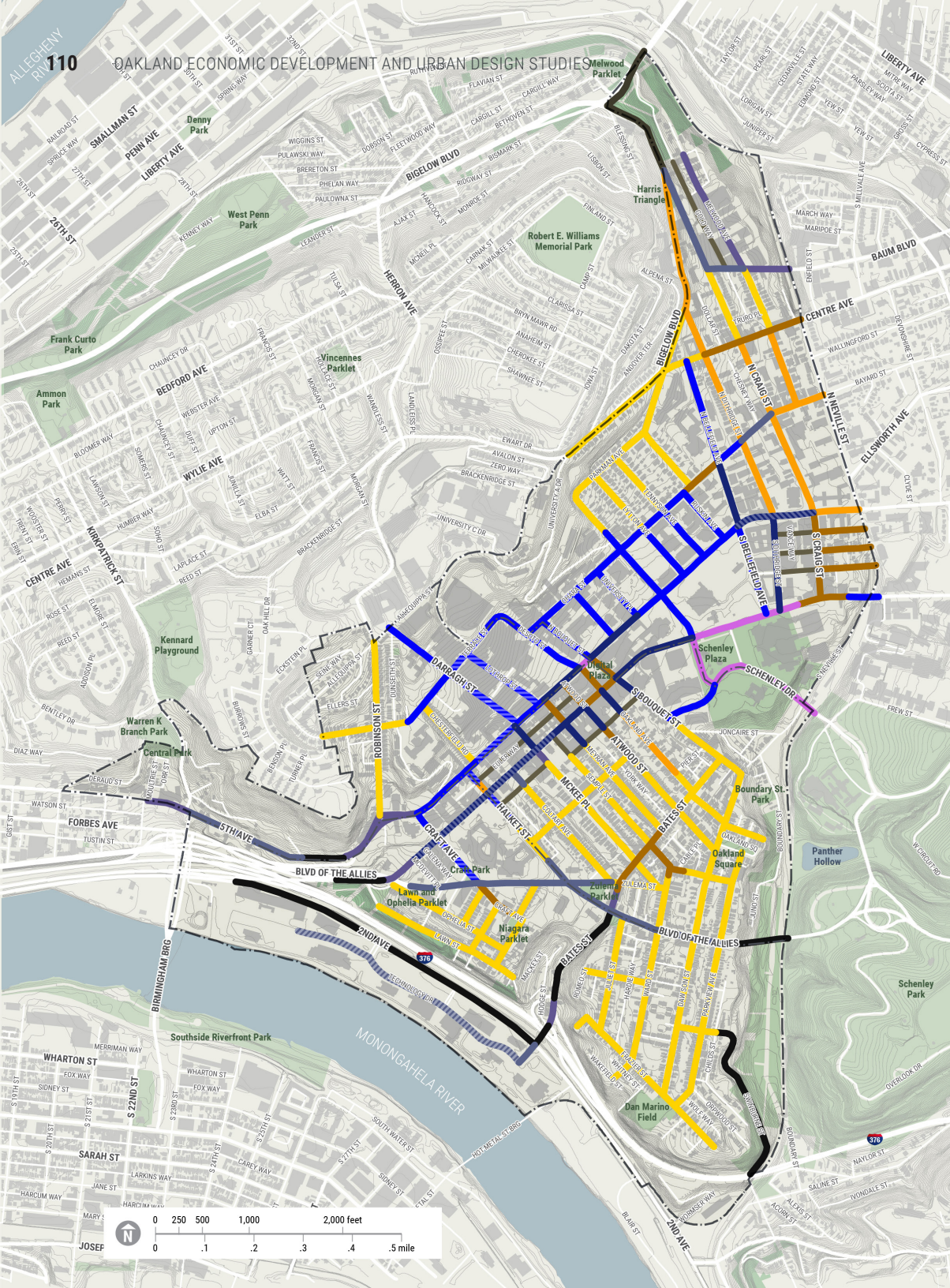
Area addressed by Uptown/West Oakland Ecoinnovation

District Plan: E

ZONING

- RTD-VL Single-Unit Detached Residential very Low Density
- RTD-L Single-Unit Detached Residential Low Density
- R1A-H Single-Unit Attached Residential High Density
- R1A-VH Single-Unit Attached Residential very High Density
- R2-L Two-Unit Residential Low Density
- R2-M Two-Unit Residential Moderate Density
- R2-H Two-Unit Residential High Density
- R2-VH Two-Unit Residential very High Density
- R3-M Three-Unit Residential Moderate Density
- RM-M Multi-Unit Residential Moderate Density
- RM-H Multi-Unit Residential High Density
- RM-VH Multi-Unit Residential very High Density
- RP Residential Planned Unit Development
- EMI Educational / Medical Institution
- OPR-A Oakland Public Realm District A—Atwood Street
- OPR-B Oakland Public Realm District B—Craig Street
- OPR-C Oakland Public Realm District C—Fifth & Forbes District
- OPR-D Oakland Public Realm District D—Boulevard of the Allies
- SP-7 Oakland Area Planned Development District
- UPR-B Uptown Public Realm District
- LNC Local Neighborhood Commercial
- UNC Urban Neighborhood Commercial
- UI Urban Industrial
- NDI Neighborhood Industrial
- RIV-GI Riverfront General Industrial
- RIV-IMU Riverfront Industrial Mixed Use
- RIV-MU Riverfront Mixed Use
- SP-1 Pittsburgh Technology Center
- SP-10 Almona
- SP-5 Southside Works
- P Parks and Open Space
- H Hillside





Street Character

- Traditional Residential
- Mid Rise Multifamily Residential
- Neighborhood Mixed Use
- Urban Core Mixed Use – Pedestrian Amenity
- Urban Core Mixed Use – Pedestrian Challenge
- Service Alley
- Autocentric Mixed Use
- Autocentric Business Campus
- Civic Destination
- Institutional – Pedestrian Amenity
- Institutional – Pedestrian Challenge
- Vehicular Corridor with Development Constraints
- Revitalization / Transitional

Oakland Street Character Typology

Overview of Typology Categories and Existing Street Sections

Traditional Residential

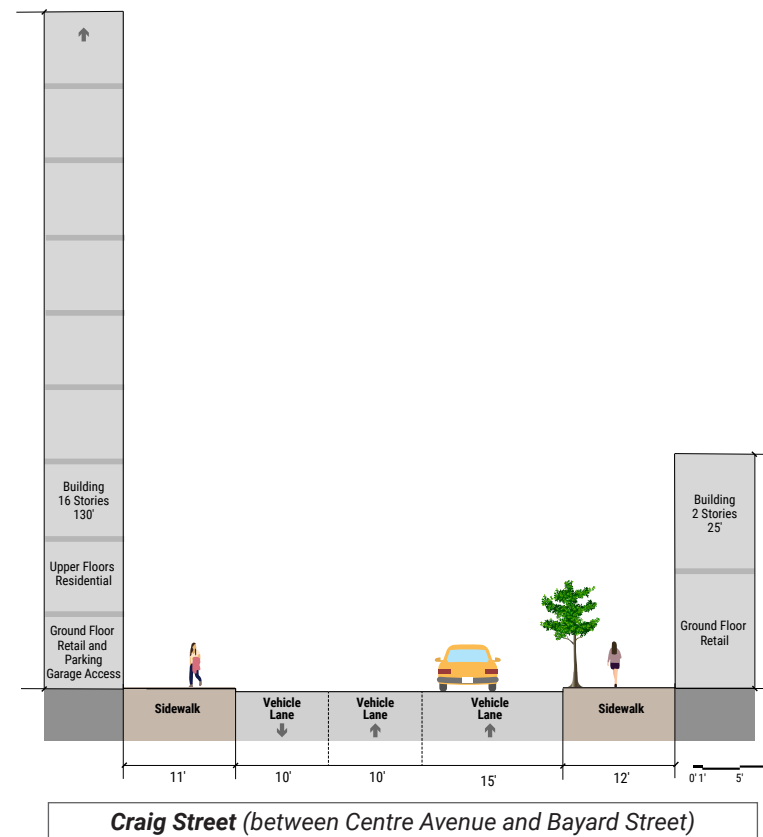
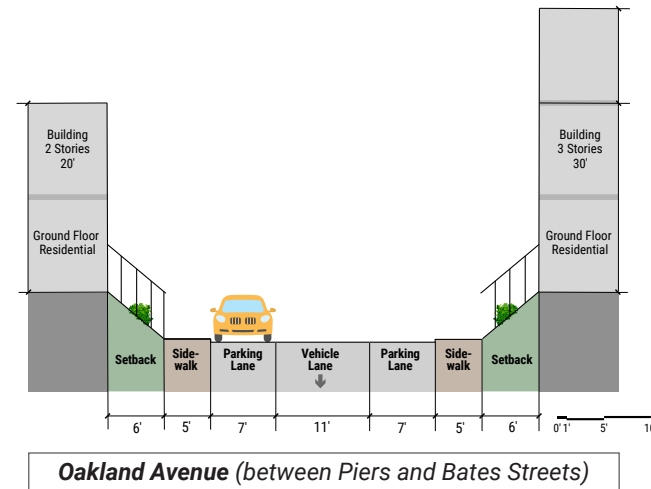
Multiple streets throughout North, Central, South, and West Oakland, including: portions of N. Craig St., Melwood Ave., Centre Ave., Bigelow Blvd., Parkman Ave., Lytton Ave., Tennyson Ave., S. Bouquet St., Oakland Ave., Atwood St., Bates St., Meyran Ave., Semple St., McKee Pl., Coltrart Ave., Zulema St., Halket St., Louisa St., Dawson St., Parkview Ave., Ward St., Juliet St., Cato St., Swinburne St., Frazier St., Lawn St., Ophelia St., Joe Hammer Sq., Kennet Sq., Niagara St., Craft Ave., Chesterfield Rd., Robinson St., and Terrace St.

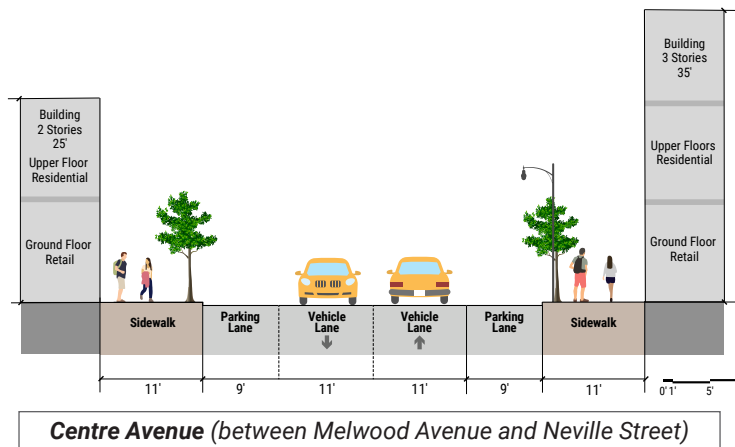
Traditional residential streets occur throughout the interior of residential neighborhoods in West, South, Central, and North Oakland. Traditional residential streets are characterized by predominantly 2- to 3-story single-family or conversion residential buildings with historic architecture, buildings up to the sidewalk, narrow to medium width sidewalks, good walkability, on-street parking, street trees, and low traffic volumes. There are frequent driveways and front yard parking on many streets in Central Oakland compared to segments in South, North, and West Oakland.

Mid-Rise Multi-Family Residential

Segments of Melwood Ave., N. Craig St., Bayard St., N. Dithridge St., Bigelow Blvd., Fifth Ave. between N. Craig St. and N. Neville St., Oakland Ave., and Halket St.

Mid- to high-rise multi-family residential streets are characterized by predominantly mid to high rise single use multi-family residential buildings on streets with narrow to medium width sidewalks, good walkability, on-street parking, and street trees. There are typically some driveways and some intermittent single family, commercial, or institutional uses mixed in. The typology exists predominantly within North Oakland, with the exception of a segment of Oakland Ave within Central Oakland.

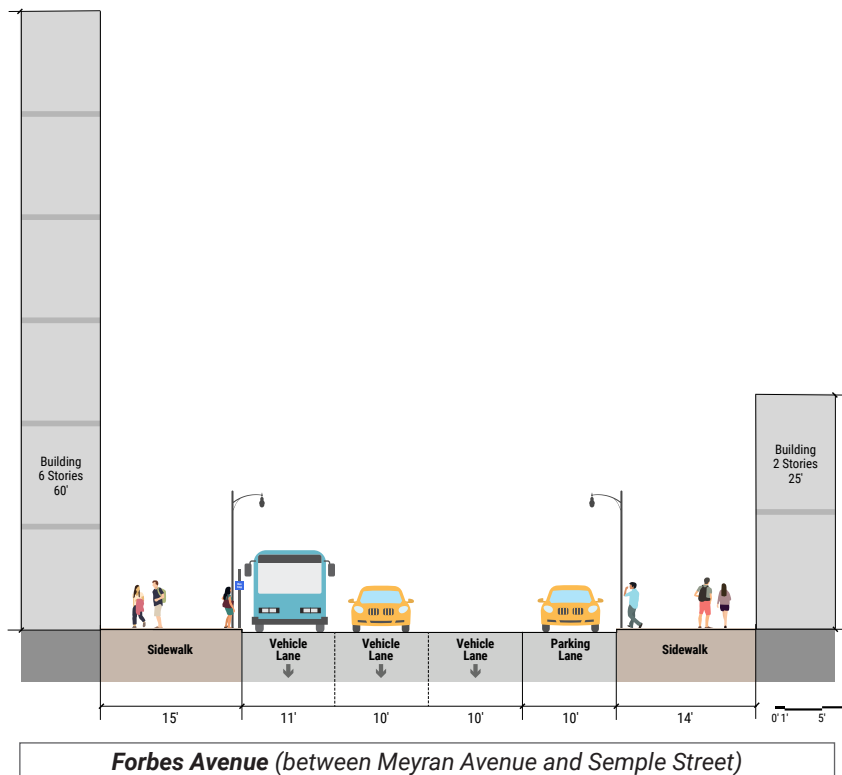




Neighborhood Mixed Use

Segments of Centre Ave., Bayard St., S. Craig St., Forbes Ave., Henry St., Winthrop St., Filmore St., S. Bouquet St., Oakland Ave., Atwood St., Forbes Ave., Meyran Ave., Bates St., Semple St., and Craft Ave.

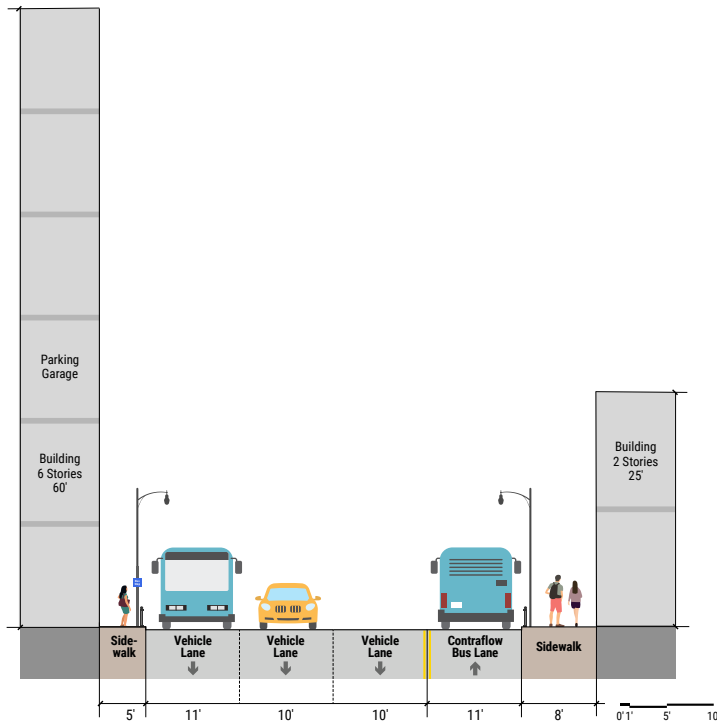
Neighborhood mixed-use typology is characterized by transparent ground floor storefronts with low- to mid-rise apartments above. Traffic is not as heavy as urban core mixed-use streets. Generally, amenities and markings include sidewalks, signalized or marked crosswalks, on-street parking on both sides, and transparent storefronts. Most segments provide good walkability. Bicycle infrastructure is generally limited to sharrows on these streets. On Centre Avenue, for example, the heavy traffic can be uncomfortable for pedestrians, but there are wide sidewalks, signalized crosswalks, on-street parking on both sides of the street, transparent storefronts, and recently planted street trees to alleviate some the traffic impacts and provide reasonably good walkability. Street lighting is generally utilitarian.



Urban Core Mixed Use – Pedestrian Amenity

Segments of Forbes Ave., Fifth Ave., Dithridge St., N. Bellefield Ave., S. Bouquet St., Oakland Ave., Atwood St., Meyran Ave. and McKee Pl.

These corridors represent the core downtown environment of Oakland and provide a high quality, walkable downtown environment with a variety of eating establishments and retail opportunities mixed with multi-family living and office/academic employment. Ground floor businesses have attractive facades and are mostly occupied, with only one or two vacancies. Streetlights are traditional style embellished with planter baskets and banners but are very tall and are more functional street lighting than pedestrian scale. Sidewalks are in generally good condition but lack a cohesive streetscape design. Because of relatively tight sidewalk conditions, there are relatively few street trees, bike racks, or planters on the sidewalks as might otherwise be expected.

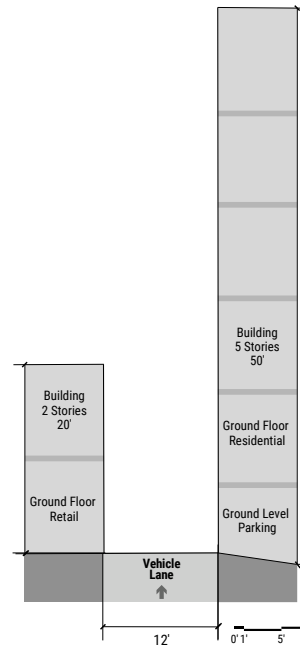


Fifth Avenue (between Halket Street and McKee Place)

Urban Core Mixed Use – Pedestrian Challenge

Forbes Ave. between McDevitt Pl. and Semple St., and Fifth Ave. between S. Bellefield Ave. and S. Craig St.

This typology has a dense array of mid to high rise buildings, ground floor commercial uses, upper floor apartments and offices, and transparent ground floor storefronts and form major transportation and economic spines of the Oakland neighborhood. However, in the pedestrian challenge segments the quality of the pedestrian environment is challenged by narrower sidewalks, pedestrian barriers, higher traffic speeds, and disruptions of the streetscape.



Euler Way (between Meyran Avenue and McKee Place)

Service Alley

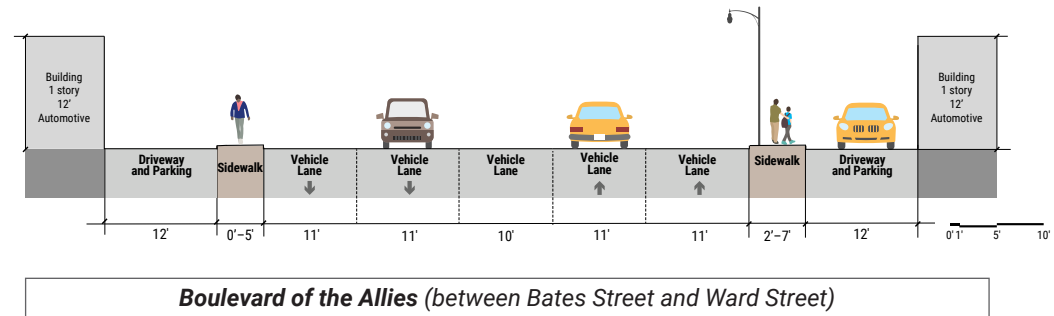
Euler Way, Iroquois Way, Fresco Way and Gold Way. Segments of Sennott St., Filmore St., Winthrop St., and Henry St. between Dithridge and S. Craig Streets

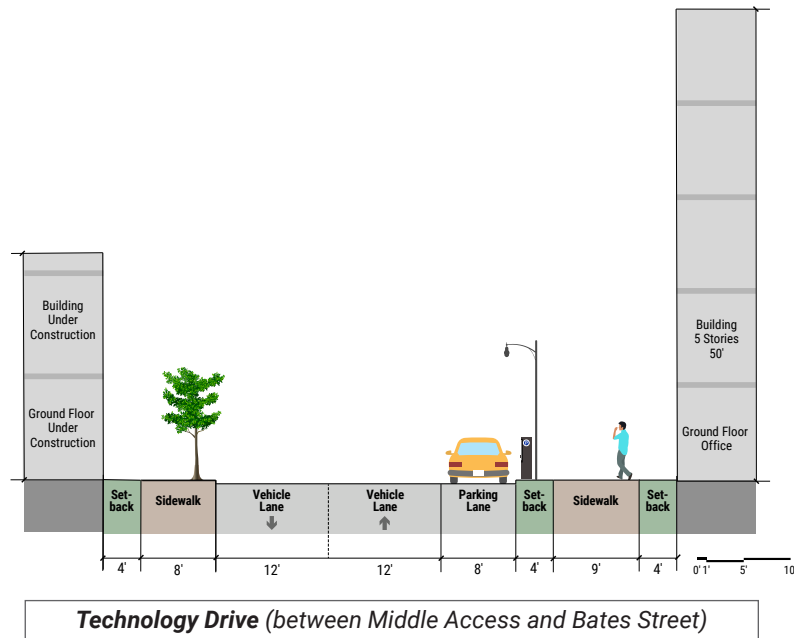
Service alleys are primarily used for off-street loading and parking access and have narrow cartways, minimal to no sidewalks, poor walkability, limited pedestrian egress, and are mostly located to the rear and side of urban core mixed use buildings.

Autocentric Mixed Use

Fifth Ave. between Kirkpatrick St. and Branham St., Boulevard of the Allies between Forbes Ave. and Parkview Ave. Segments of Halket St., Zulema St., Coltart Ave., Bayard St., Baum Blvd., N. Craig St. and Technology Dr.

These roads are high-volume connectors to the regional road and highway system, with higher speeds, multiple and wider traffic lanes, and few and/or inadequate pedestrian facilities compared to other typologies. Land uses vary along the corridors through Oakland, including light industrial uses, a vacant building and parking lot with large billboards, a large vacant warehouse, hotels, apartment buildings, commercial uses, residences, Zulema Park, the Craft Avenue triangular green space, Bates Street Park, and hospital/healthcare facilities.





Autocentric Business Campus

Technology Dr.

The Pittsburgh Technology Center (PTC) is a state-of-the-art office park and regional center for research and development located along the northern bank of the Monongahela River in South Oakland. The office park is incorporated into the city's grid via Technology Drive, a slightly winding two-lane roadway that runs mostly parallel to Second Avenue and the river. Technology Drive represents the only corridor in Oakland designated as the Autocentric Business Campus typology, which is characterized as primarily auto-oriented across a campus-like environment. While there are new eight-foot sidewalks, lush landscaping, and attractive medium-scale lighting, this green office park is generally auto-oriented with large garages and parking lots instead of on-street parking. Pedestrian accommodations are incorporated within the campus, but there is a lack of pedestrian-oriented uses and lack of connectivity to adjacent areas.

Although relatively separated from the Oakland neighborhood by the I-376 highway, the office park along Technology Drive is connected to the neighborhood by Bates Street via Second Avenue. This connection is primarily vehicular. There is pedestrian access along Bates Street, but sidewalks and crosswalks vary in condition, comfort level, and safety. The sidewalk under the I-376 overpass is particularly dark and daunting. The crosswalk on Second Avenue is signalized with landscaped edges that provide a safe and attractive path across a high traffic volume road into the technology center. There are connections to the regional trail network from the southeastern end of Technology Drive to the Hazelwood Trail and the Three Rivers Trail and Great Allegheny Passage via the Hot Metal Bridge pedestrian ramp.

Civic Destination

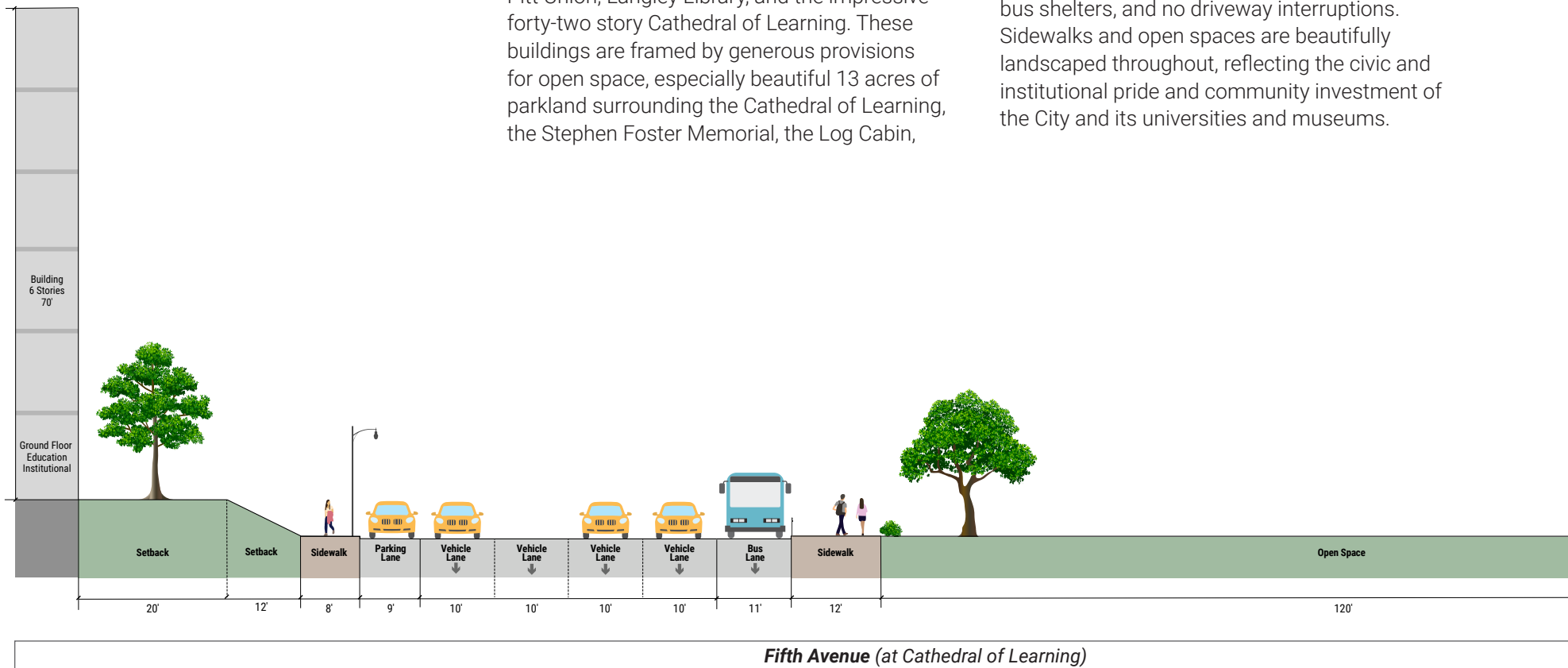
Fifth Ave. between De Soto St. and N Bouquet St., Forbes Ave. between Schenley Dr. and CMU Museum of Art entrance, and Schenley Dr..

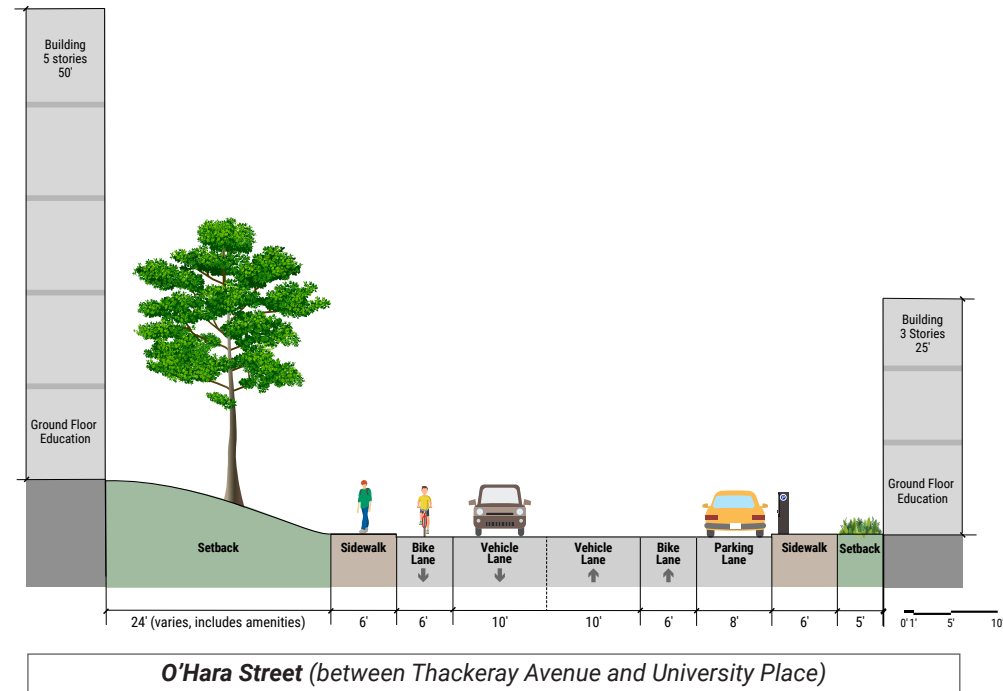
Fifth Avenue is a major transportation and institutional spine through the Oakland neighborhood and represents multiple urban design street typologies, including Autocentric Commercial, Education Campus, Healthcare Campus, Urban Core Mixed Use, and Open Space. The block between University Place

and Belfield Avenue epitomizes the Open Space typology with its showcase of expansive public plazas and green spaces surrounded by Pittsburgh's monumental and historic institutional architecture. The iconic structures found here include Soldiers and Sailors Hall, the Pittsburgh Athletic Club, and several University of Pittsburgh buildings, including Alumni Hall, The William Pitt Union, Langley Library, and the impressive forty-two story Cathedral of Learning. These buildings are framed by generous provisions for open space, especially beautiful 13 acres of parkland surrounding the Cathedral of Learning, the Stephen Foster Memorial, the Log Cabin,

and Heinz Memorial Chapel. This continues on Schenley Drive across the bridge to Schenley Park.

Despite the vehicular prominence of Fifth Avenue and Schenley Drive as major corridors and gateways, pedestrian accommodation along this typology segment is excellent, with several signalized crosswalks, wide tree-lined sidewalks, bus shelters, and no driveway interruptions. Sidewalks and open spaces are beautifully landscaped throughout, reflecting the civic and institutional pride and community investment of the City and its universities and museums.

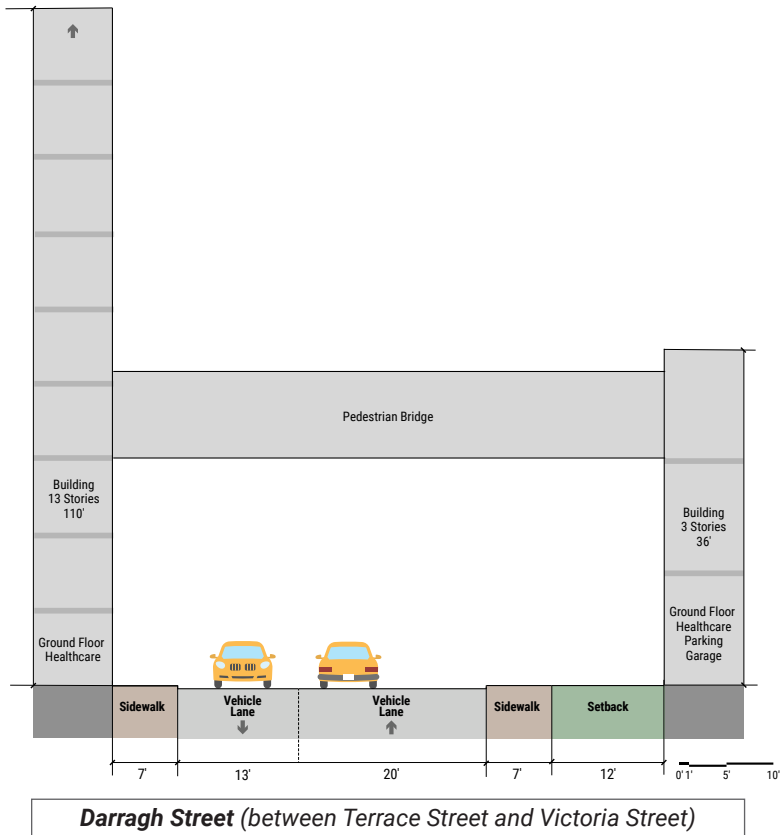




Institutional – Pedestrian Amenity

Segments of N Bellefield Ave, S Bellefield Ave, Bayard St, Bigelow Blvd, O'hara St, Ruskin Ave, Tennyson Ave, Lytton Ave, Parkman Ave, University Pl, Thackery Ave, N Bouquet St, S Bouquet St, Roberto Clement Drive, Fifth Ave, and Forbes Ave.

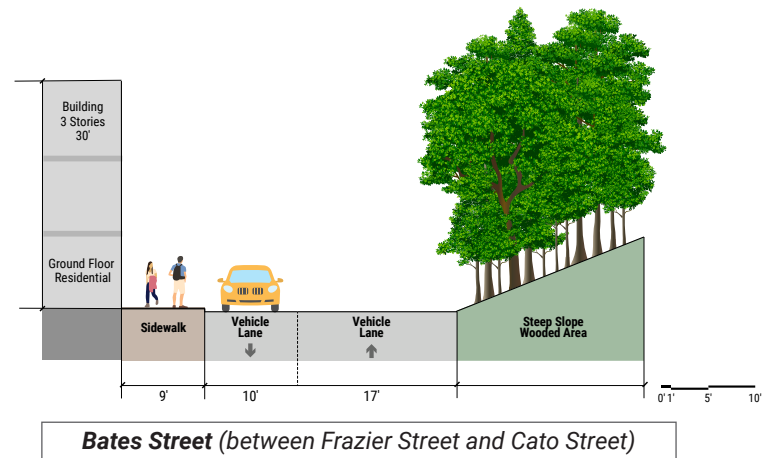
Institutional – Pedestrian Amenity street typology features predominantly low- to mid-rise buildings, large parcels and building footprints, large single use education buildings, frequent garage or parking lot access points, and less frontage transparency than Urban Core Mixed Use areas. Generally, sidewalks are moderate width and are in good condition with street lighting, street trees, and a few driveway disruptions, but overall, walkability is good. Institutional – Pedestrian Amenity streets also include pedestrian-oriented amenities, including plazas, green spaces, and public art.



Institutional – Pedestrian Challenge

Segment of Lothrop St., Darragh St., Terrace St., Haket St., Craft Ave., Fifth Ave. between Chesterfield St. and Darragh St.

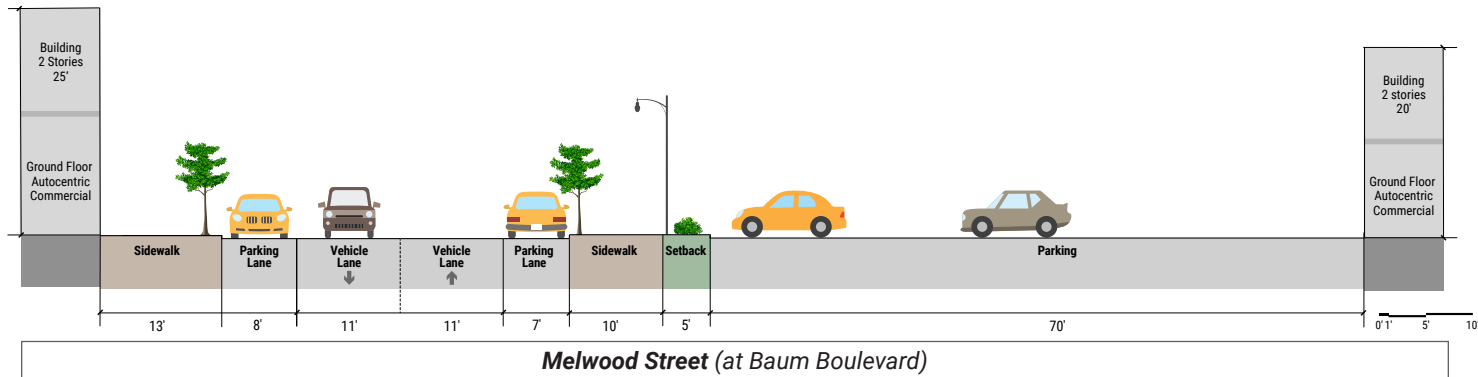
Institutional – Pedestrian Amenity street typology features predominantly low- to mid-rise buildings, large parcels and building footprints, large single use education buildings, frequent garage or parking lot access points, and less frontage transparency than Urban Core Mixed Use areas. These corridors frequently include loading, parking access, blank walls, and constrained pedestrian environments.



Vehicular Corridor with Development Constraints

Segments of Bigelow Blvd., Bloomfield Bridge, Boulevard of the Allies, Fifth Ave. between Brehm St. and Boulevard of the Allies, Second Ave., Bates St., and Swinburne St.

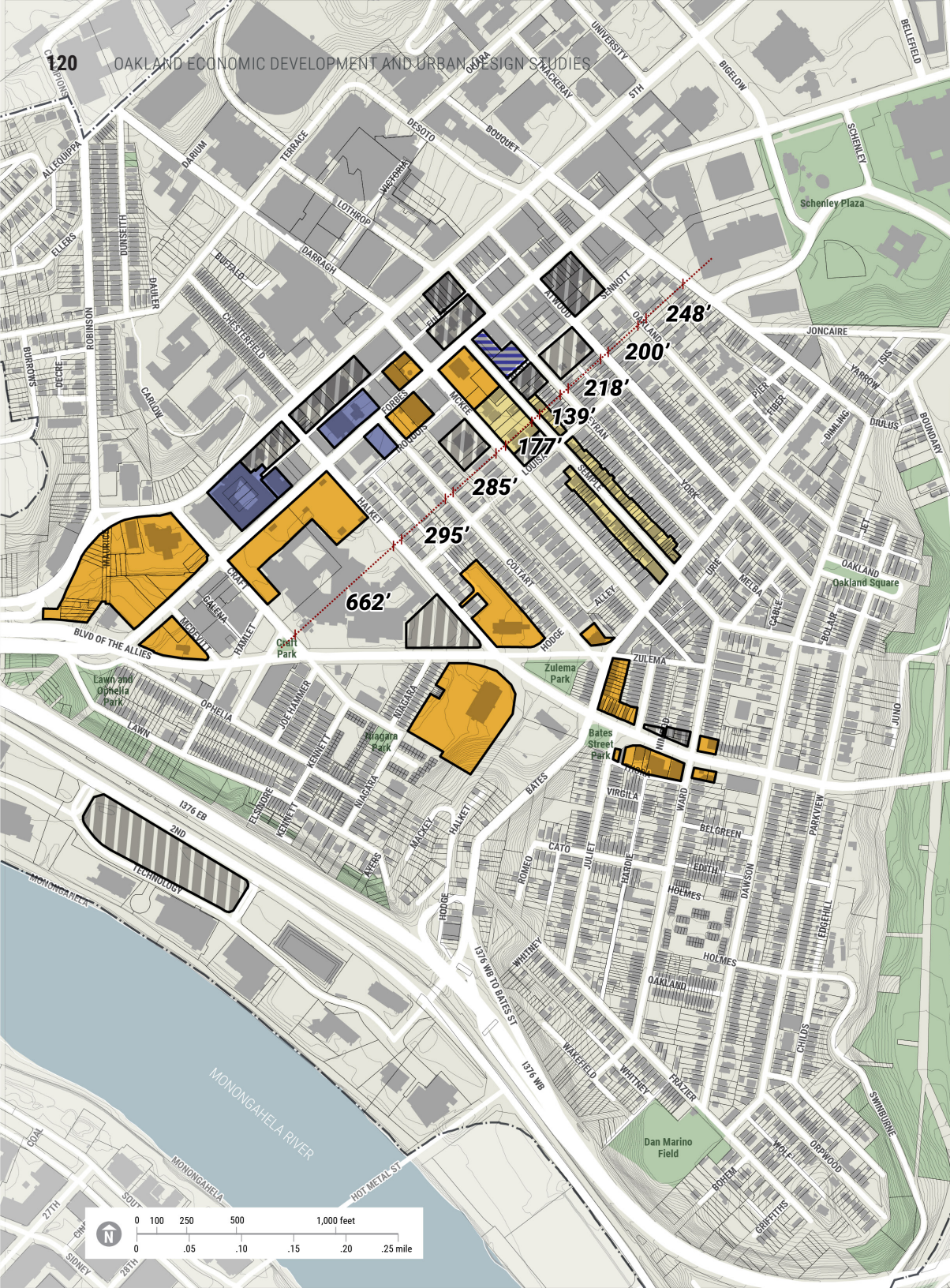
These segments represent high-volume roadways through areas with little surrounding development potential. In most cases, this is due to constraints from topography, the highway right-of-way, or park spaces. When not congested, vehicle speeds are high. Pedestrian comfort along these roadways is limited.



Revitalization/Transitional

Segments of Melwood Ave., Baum Blvd., McKee Pl., Bates St., Forbes Ave. between Boulevard of the Allies and McDevitt Pl., and Fifth Ave. at the gateway to Uptown.

Revitalization/Transitional streets are former industrial areas transitioning to commercial, industrial, and/or residential through adaptive reuse. Buildings are predominantly low-rise and have limited commercial frontage transparency. Sidewalks are typically narrow or in fair to poor condition and there are frequent sidewalk interruptions with surface parking lots and loading areas.



Parcels with Potential for Change

- Oakland 2025 Plan:
Recommended Student Housing Redevelopment
- Oakland 2025 Plan:
Recommended Mix-Use Redevelopment
- Other apparent underutilized sites (FAR 2 or less)
- Recently Redeveloped
- Known Owner Interest in Redevelopment

Sources: Zoning (2018), City of Pittsburgh; Pittsburgh Boundary (2019), Property Assessment Parcel Data (2019), Rivers (2015), Streets (2017), Allegheny County; The Oakland 2025 Master Plan (2012), Pfaffmann + Associates, Studio for Spatial Practice.

The Oakland 2025 Plan envisioned catalytic redevelopment on some of Oakland's major corridors, including Forbes Avenue and Boulevard of the Allies.

There has been significant redevelopment on the Forbes Avenue corridor since the completion of the Oakland 2025 Plan, including ongoing owner interest in redevelopment. Some of these parcels with potential for change are shown on the opposite page.



Parcels along Bates Street near Zulema Park



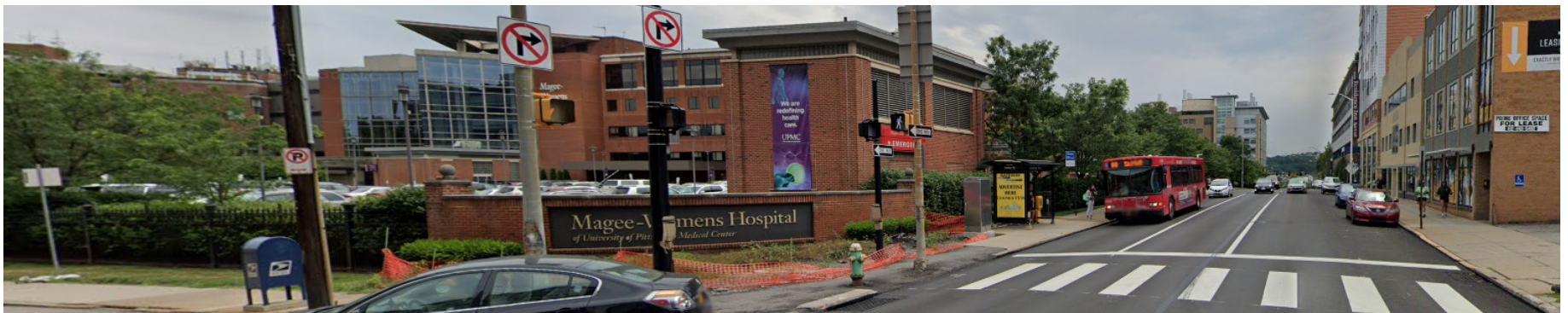
Parcels at the intersection of Zulema and Halket Streets



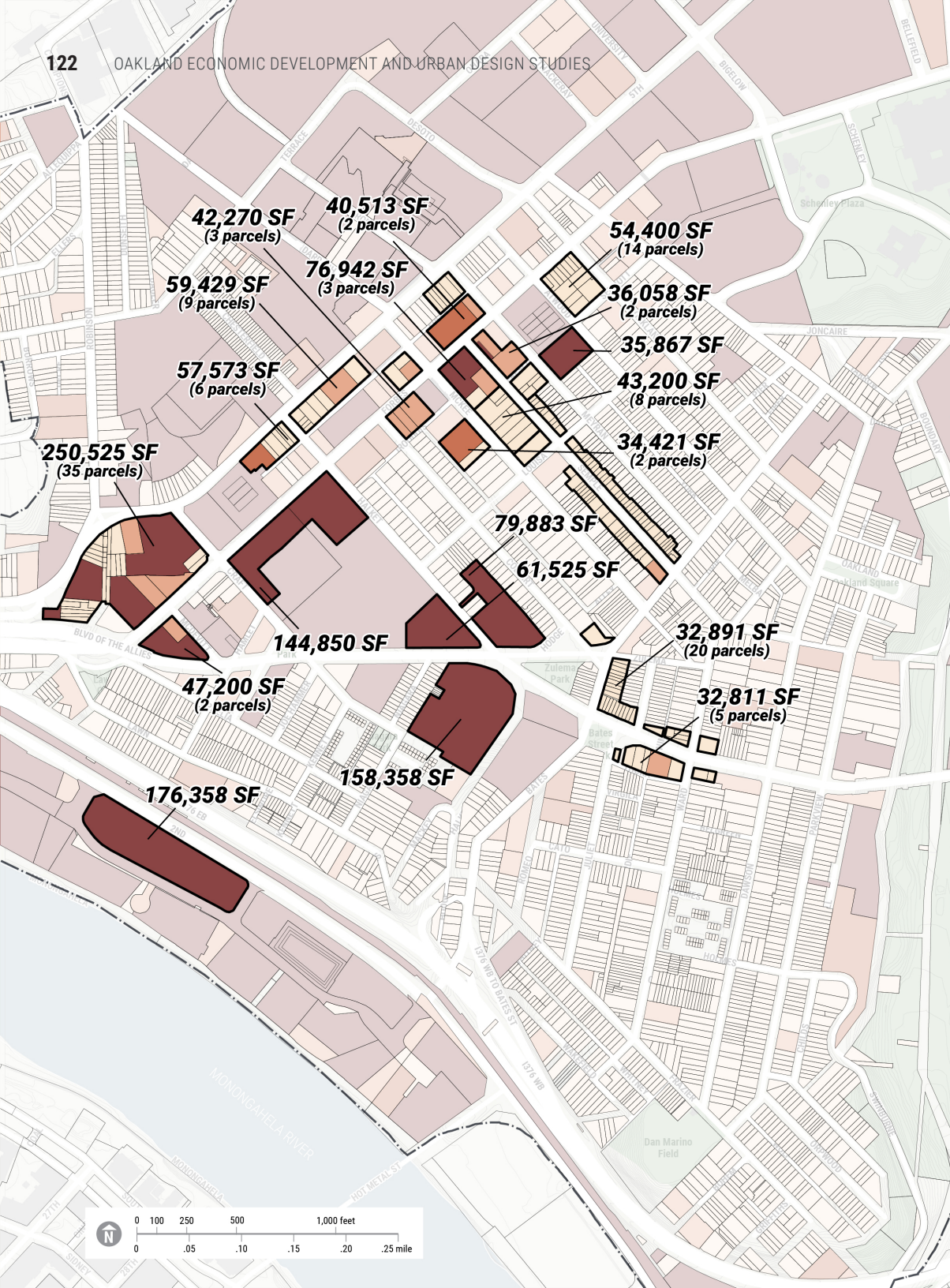
330 Halket Street



2 McDevitt Place



Forbes Avenue between Halket Street and Craft Avenue



Parcel size greatly affects what type and scale of building can feasibly be built upon it. As shown in this diagram, there are many possibilities for aggregation of smaller parcels to create larger ones. On parcels under 10,000 SF, elevators are usually not cost-effective; thus buildings tend to be walk-up residential or single-story commercial or institutional. Multifamily residential with elevator access is generally feasible on parcels over 10,000 SF. Research and office buildings generally require parcels at least 20,000 SF in area, with 25,000 to 30,000 SF or more sometimes preferred. Ramped parking structures commonly require at least 25,000 SF area.

Parcels with Potential for Change: Site Area

Parcels with Potential for Change

SITE AREA

- < 10,000 SF
- 10,000SF - 19,999 SF
- 20,000 SF - 29,999 SF
- > 30,000 SF



















Sources: Zoning (2018), City of Pittsburgh; Pittsburgh Boundary (2019), Property Assessment Parcel Data (2019), Rivers (2015), Streets (2017), Allegheny County, The Oakland 2025 Master Plan (2012), Pfaffmann + Associates, Studio for Spatial Practice.

Many parcels with potential for change are within one of the Oakland Public Realm zoning districts, which allow for larger-scale development. Four parcels in the Oakland Public Realm District on Forbes Avenue have recently been redeveloped, two as student housing development, one as office, and one as hotel.

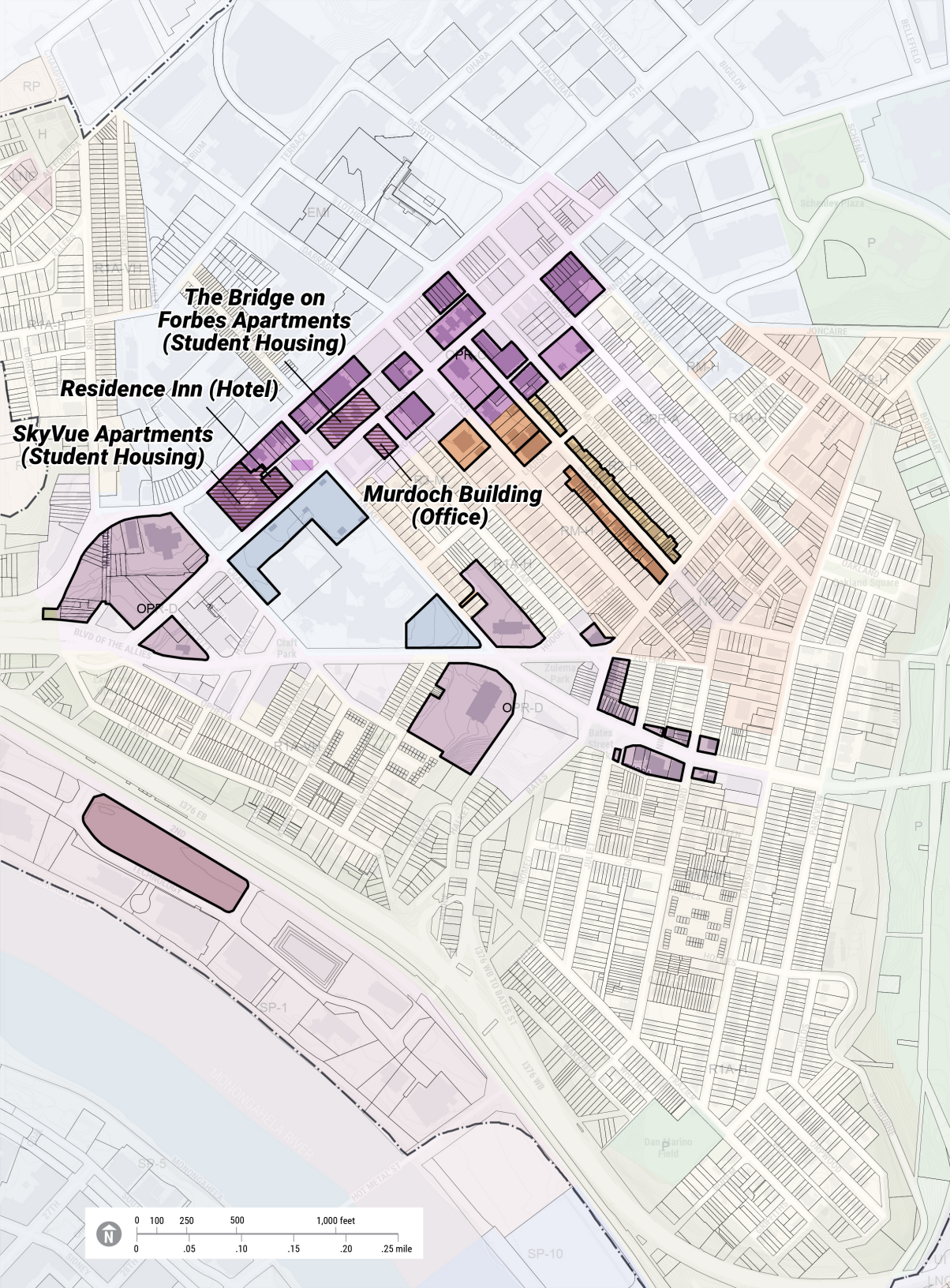
Parcels with Potential for Change: Zoning

 Parcels with Potential for Change

ZONING

	R1A-H	Single-Unit Attached Residential High Density
	R1A-VH	Single-Unit Attached Residential very High Density
	R2-L	Two-Unit Residential Low Density
	R2-H	Two-Unit Residential High Density
	R3-M	Three-Unit Residential Moderate Density
	RM-H	Multi-Unit Residential High Density
	RP	Residential Planned Unit Development
	EMI	Educational / Medical Institution
	OPR-A	Oakland Public Realm District A-Atwood Street
	OPR-C	Oakland Public Realm District C-Fifth & Forbes Districts
	OPR-D	Oakland Public Realm District D-Boulevard of the Allies
	LNC	Local Neighborhood Commercial
	UI	Urban Industrial
	SP-1	Pittsburgh Technology Center
	SP-10	Almona
	SP-5	Southside Works
	P	Parks and Open Space
	H	Hillside

Sources: Zoning (2018), City of Pittsburgh; Pittsburgh Boundary (2019), Rivers (2015), Streets (2017), Allegheny County; The Oakland 2025 Master Plan (2012), Pfaffmann + Associates, Studio for Spatial Practice.



The tallest buildings in Oakland are clustered in the core of the institutional area, the Fifth and Forbes district, and Craig Street.

Even within these corridors, heights currently vary significantly within a single block. Other areas have more uniform building height. The

core of UPMC facilities from Fifth Avenue to Terrace Street contains a number of buildings over 200 feet. This area also slopes significantly. Residential areas in West, South, and Central Oakland are largely 2-3 floors of height. The Pittsburgh Technology Center on the riverfront has mid-rise heights from 3-8 floors.

Additional height, along with the related measure of additional floor area ratio, has recently been requested as part of new development proposals.

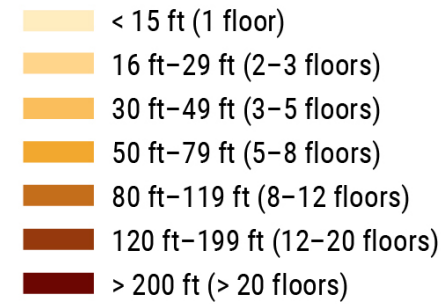
The Oakland Public Realm districts have varying height limits. On Atwood Street, it is 40 feet, in keeping with the neighborhood context. On Craig Street and Boulevard of the Allies, the public realm districts have a maximum height of 60 feet, with 85 feet allowed by special exception. The Fifth and Forbes District has a maximum height of 85 feet, with 120 feet allowed by special exception if the property has frontage on Fifth Avenue. In all instances, additional height is only granted if it does not create detrimental impacts on residential properties.



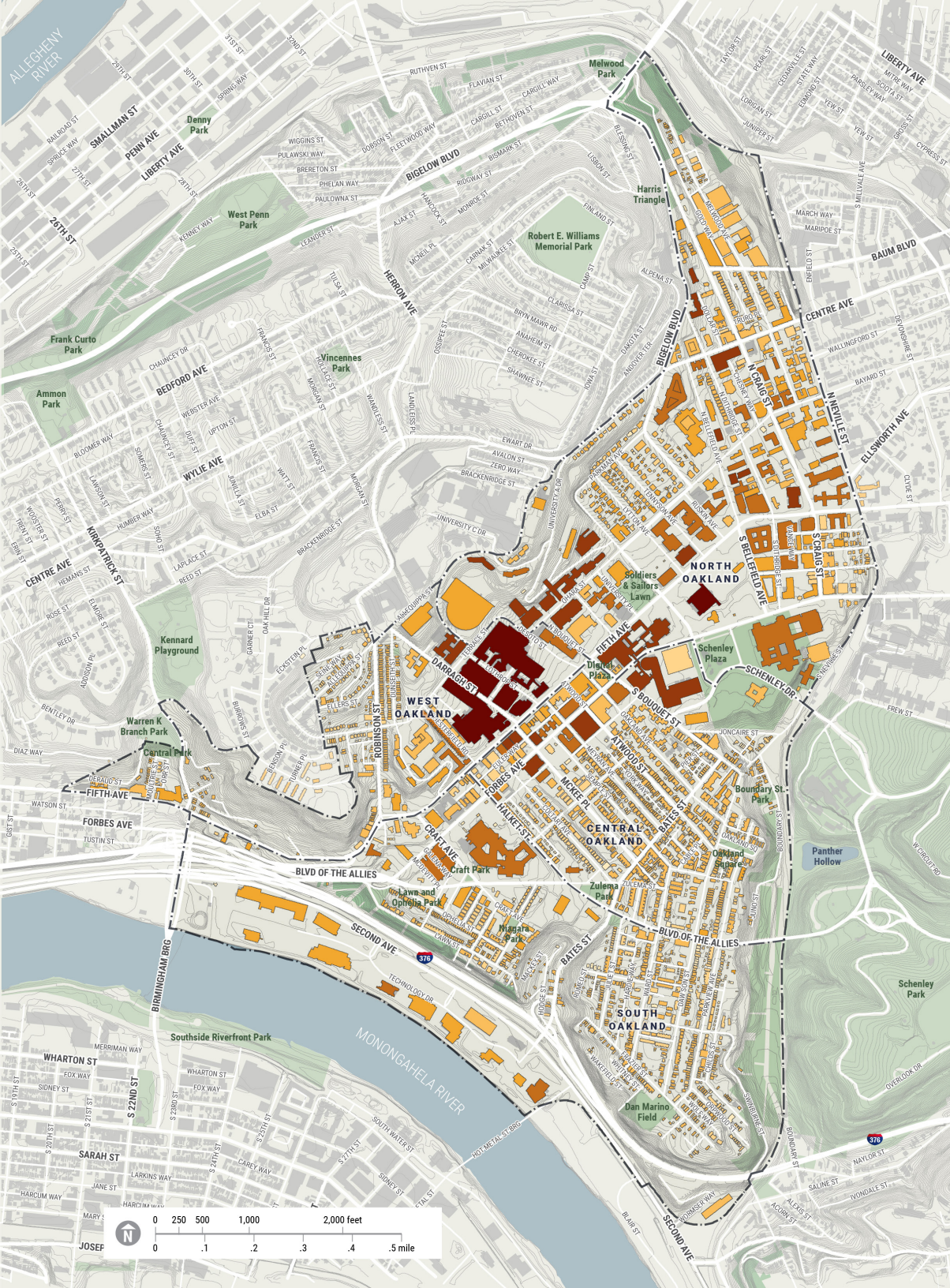
PHOTO COURTESY OF THE UNIVERSITY OF PITTSBURGH

The Cathedral of Learning is the tallest building in Oakland and a major visual landmark. It is surrounded by lower-rise buildings and open lawns. Other areas of concentrated height along the Fifth and Forbes Corridors have a more consistent scale and less open space than the area surrounding the Cathedral of Learning.

Building Height



Sources: hotels.com, Hotel Interview



The residential fabric of Oakland's historic neighborhoods remain largely intact.

The city has established three local historic districts in Oakland: Schenley Farms, Oakland Civic Center, and Oakland Square.

The Oakland Civic District encompasses an area of landmark civic, educational, and cultural buildings constructed as part of the City Beautiful movement. Many structures have become part of the University of Pittsburgh campus and adaptively reused.

The Schenley Farms Historic District was constructed as a planned residential development near the civic and cultural institutions of Oakland. Most of the structures in the Schenley Farms District (local) were built between 1900-1939 across a variety of architectural styles. The area was planned with a consistent vision for shade trees, ornamental street lights, and sidewalks. The combined Schenley Farms-Oakland Civic District is a National Register Historic District, shown in blue on the map, that largely covers the same area as the combined two local historic districts and recognizes their significance to the City Beautiful style.

The Oakland Square Historic District encompasses historic residential properties in Central Oakland. While the Assessor data indicates that most buildings were constructed between 1900 to 1910, the City's nomination cites that the original structures were built 1889 to 1896. Oakland Square is located off Dawson Street, with houses fronting a central public green. Parkview Avenue parallels Dawson Street and includes a central median planted with trees as a notable feature.

Beyond these designated areas, there are significant sections of intact historic residential buildings in West Oakland along Robinson and Dunseith Street; in South Oakland between Lawn and Ophelia Streets; and in Central Oakland. The Oakland 2025 Plan identified these areas for continued investment in housing rehabilitation. The PreservePGH Plan recommended expanding Oakland Square to include historic properties along Dawson Street from Oakland Avenue to Semple Street. In addition to this expansion, the Oakland 2025 Plan recommended designating early 20th century apartment buildings with deep setbacks on McKee Place, early 20th century apartment buildings on Bellefield, and post-World War II buildings on Neville Street as potential historic districts.


As a cultural center, Oakland's landmark public destinations were built to embody the City Beautiful movement.

There are six nationally registered historic places in Oakland; of these sites, all but one are still used for their original civic and educational purposes. Schenley High School has been adapted into multi-family housing, and the Pittsburgh Athletic Association is currently undergoing renovations to incorporate office and dining uses in addition to continued recreation space.


- Carnegie Institute and Library
- Cathedral of Learning
- Henry Clay Frick Training School for Teachers (Currently hosts Pittsburgh Science and Technology Academy)
- Phipps Conservatory
- Pittsburgh Athletic Association*
- Schenley High School *(Now Schenley Apartments)


Historic Districts and Sites and Building Age Throughout Oakland

 Pittsburgh Historic Districts


 National Historic District


YEAR BUILT


 Before 1900

 1900–1919

 1920–1939

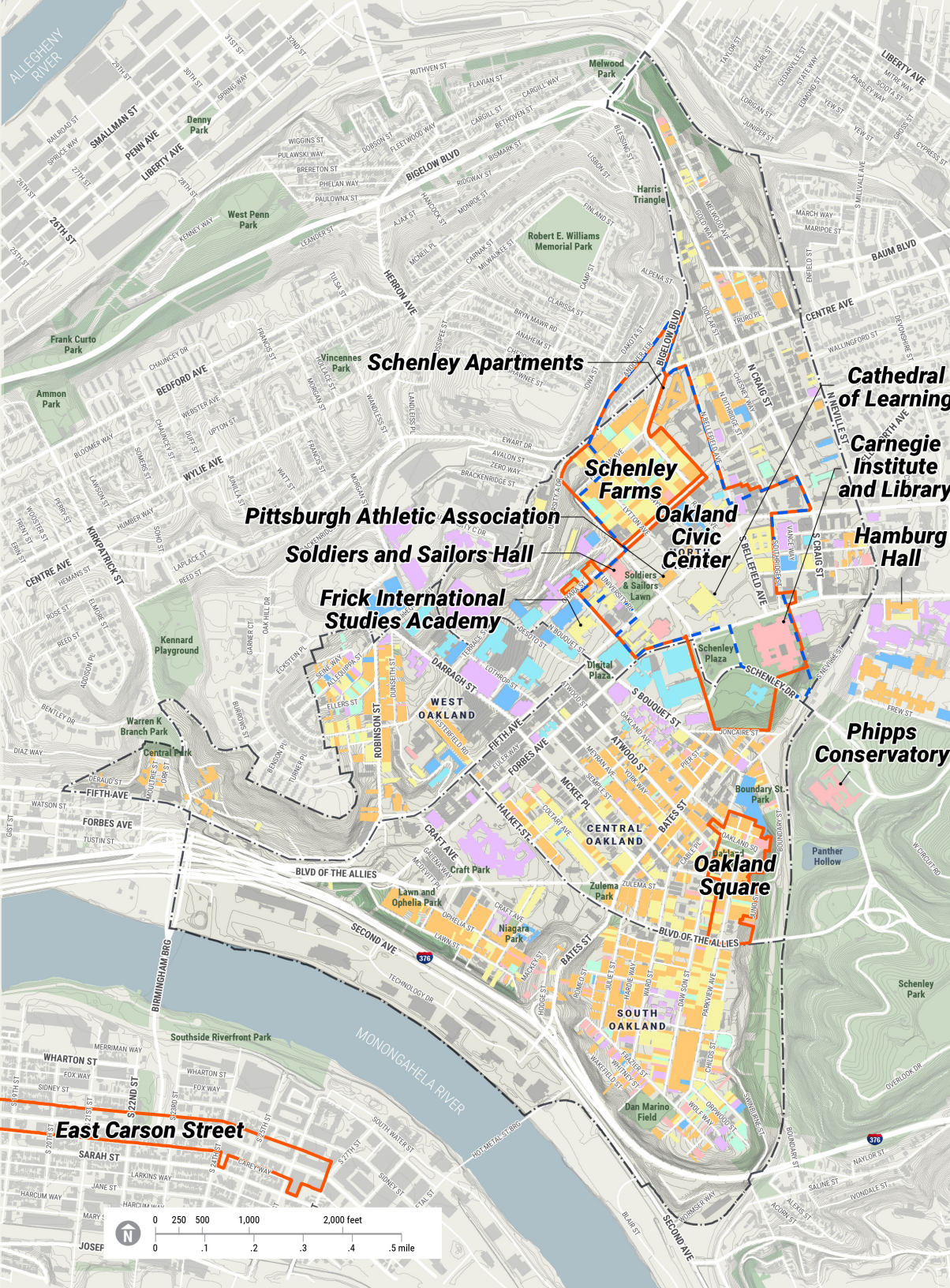
 1940–1959

 1960–1979

 1980–Present

 No Data

Sources: *Historic Districts* (2017), *Historic Sites* (2018), *City of Pittsburgh; Parcels* (2019), Allegheny County.

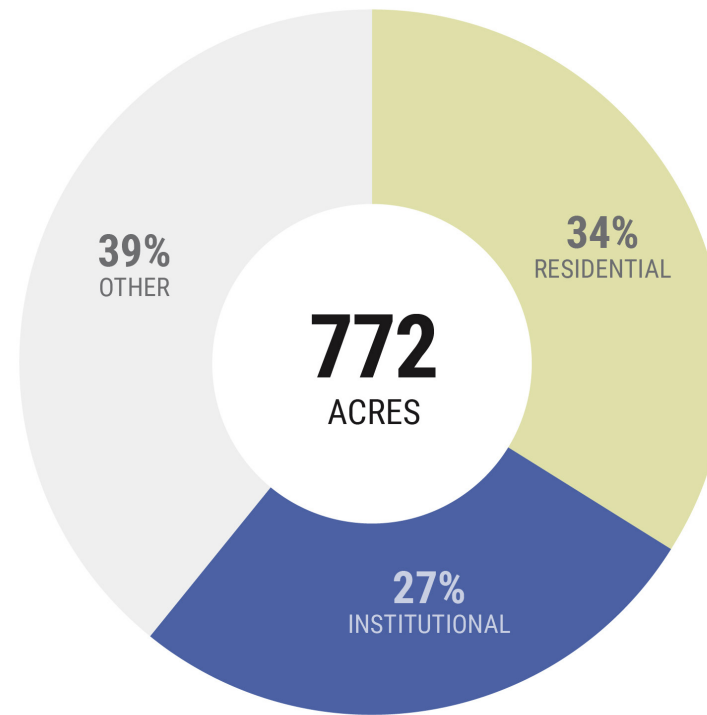


The largest land use in Oakland is residential, which occupies over 1/3 of the land area.

Altogether, 34% of the total parcel area in Oakland is used for residential purposes. Apart from right-of-way, there are 772 acres of parcels in Oakland with a land use. The largest use of land in Oakland as measured by lot area is for residential purposes. This calculation excludes student dorms but includes student multifamily housing projects, by including multifamily housing that is classified for tax purposes as commercial. By this method, approximately 30% of Oakland's land area apart from right-of-way is devoted to residential uses. Adding in land owned by the public housing authority and HUD uses, that are classified as government uses but ultimately developed for residential purposes, increases acreage with a residential use by a further 38 acres for a total of 34% of land area.

The second highest land use is institutional uses, including government, academic, museums, and hospitals. Institutional uses account for 27% of the land area in Oakland.

Top Land Uses in Oakland

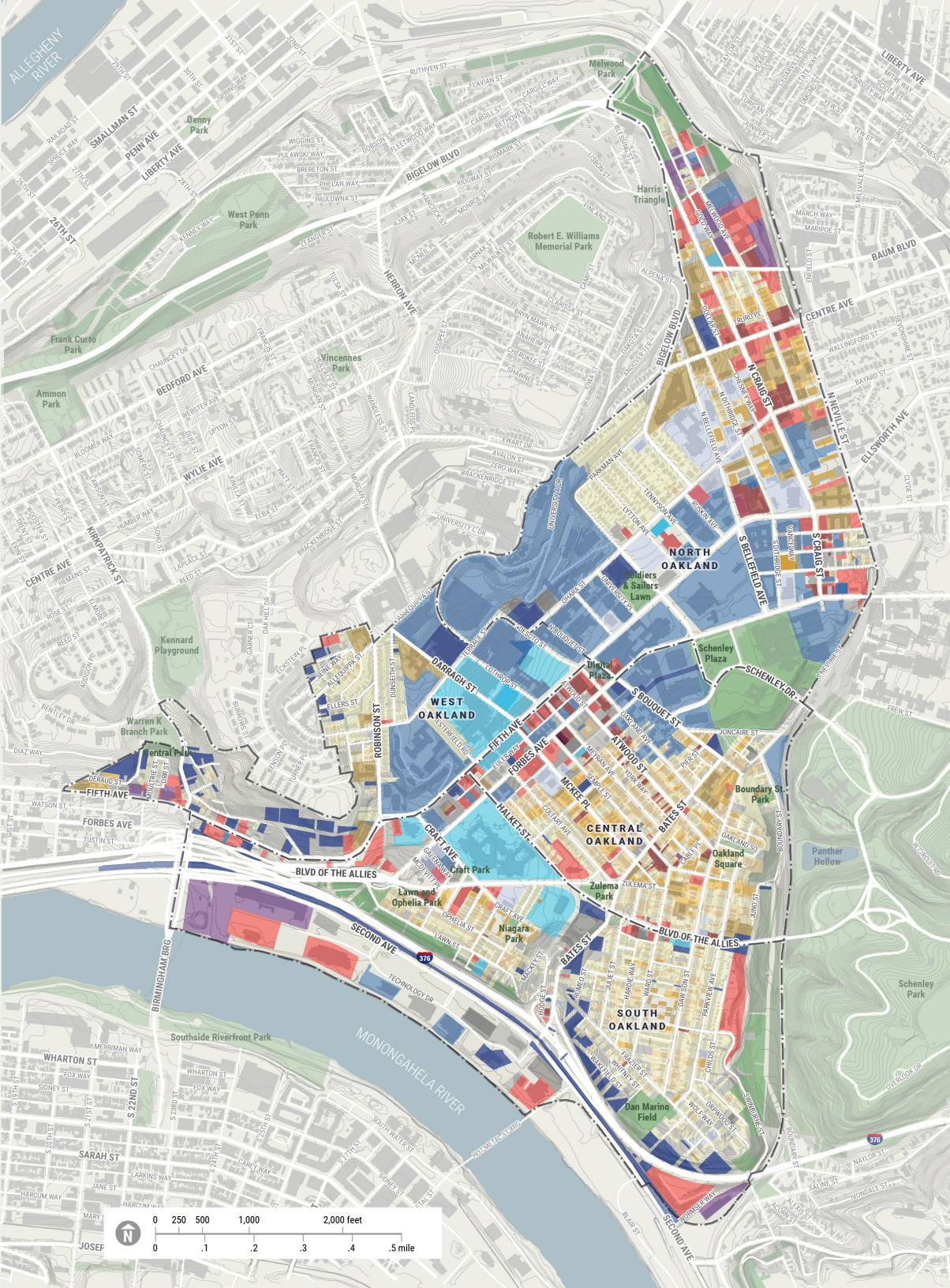


Source: Land Use (2018), City of Pittsburgh

Land Use

- Single Family
- Multi-family (2-4)
- Multi-family (5-19)
- Multi-family (20+)
- Commercial
- Mixed Use Commercial
- Public Park
- Government
- Education
- Medical
- Other Institution
- Industrial
- Utility / Parking
- Vacant

Sources: Land Use (2018), City of Pittsburgh; Pittsburgh Boundary (2019), Rivers (2015), Streets (2017), Allegheny County.



Existing zoning includes large areas of residential and educational/medical institutional. Only 100 acres are zoned for the highest-density, mixed-use development of the public realm districts.

Together, the 197 acres zoned for small-scale residential uses are essentially equal to the area of Educational/Medical Institutional (EMI) zoning within the boundaries of Oakland. Approximately 180 acres of the land in Oakland is zoned for single-family residential uses of varying lot sizes in three districts, R1D-VL, R1A-H, and R1A-VH. An additional 17 acres are zoned for two- and three-family uses in the R2-H or R3-m district.

A further 111 acres are zoned for multi-family housing development of increasing density through the RM-M, RM-H, and RM-VH districts in Central and North Oakland. This multi-family district does not have the same requirements for building form as the neighboring public realm districts and Baum-Centre Overlay. The Local Neighborhood Commercial, or LNC, districts in Central and West Oakland, and just outside the boundaries of North Oakland, provide for a rich diversity of small-scale neighborhood-serving commercial uses, such as retail, dining, and other services.

There are four different Oakland Public Realm Districts. This zoning district allows for higher-density mixed-use development in areas of strategic importance. They are envisioned to capture the majority of significant development in Oakland. These areas are located on key corridors on Atwood Street, Boulevard of the Allies, Fifth and Forbes Avenue, and Craig Street. Together, they total 100 acres. The public realm districts are located in places where it is important that private development have a supportive relationship with the adjoining public realm of sidewalks, streets, and green spaces. The district includes site development standards for residential compatibility, environmental performance, and contextual building heights and setbacks. Notably, the Craig Street District does not include the entire Craig Street corridor and has two non-continugous areas.

There are two special districts that set out additional regulatory standards for larger development areas. Educational/Medical Institutional, or EMI, are areas where development is regulated by Institutional Master Plans (IMPs). In Oakland there are IMPs for the UPMC Hospitals, University of Pittsburgh, Carnegie Mellon University, and Carlow University. The Special Permit area for the Pittsburgh Technology Center is a specially planned district, befitting its riverfront location and legacy as a redevelopment site. There is also a special permit area at the corner of Craig Street and Centre Street.

The Urban Industrial, or UI, district in North Oakland is a flexible district allowing a mix of uses including manufacturing, office, and residential uses.

There are two districts in Oakland that do not allow for development to protect open space and parks. The Hillside, or H, district is a special district for areas that are not suitable for intensive development because of the presence of environmental or scenic resources and because of the difficulty of providing essential public facilities and services. In Oakland, this district is present on the steep slopes surrounding the neighborhood. The Parks, or P, district supports a system of passive and active recreational uses in dedicated park areas. In Oakland this district covers the Schenley Park system and Frazier Park.

There are also two overlays in Oakland: the parking reduction overlay and Baum-Centre Overlay. The Baum-Centre Overlay provides criteria that development is evaluated against, including addressing compatibility with residential uses, continuing commercial retail corridors, prioritizing safe pedestrian circulation and attractive parking, preserving historic structures, and supporting open space and architectural quality among other goals. The parking reduction overlay provides a 50% reduction in the parking required for non-residential uses in the corridor bound by Halkett Street, O'Hara Street, Bigelow Boulevard, and Sennott Street/Iroquois Way.

Zoning Districts

- Parking Reduction Zoning
- Baum/Centre Overlay

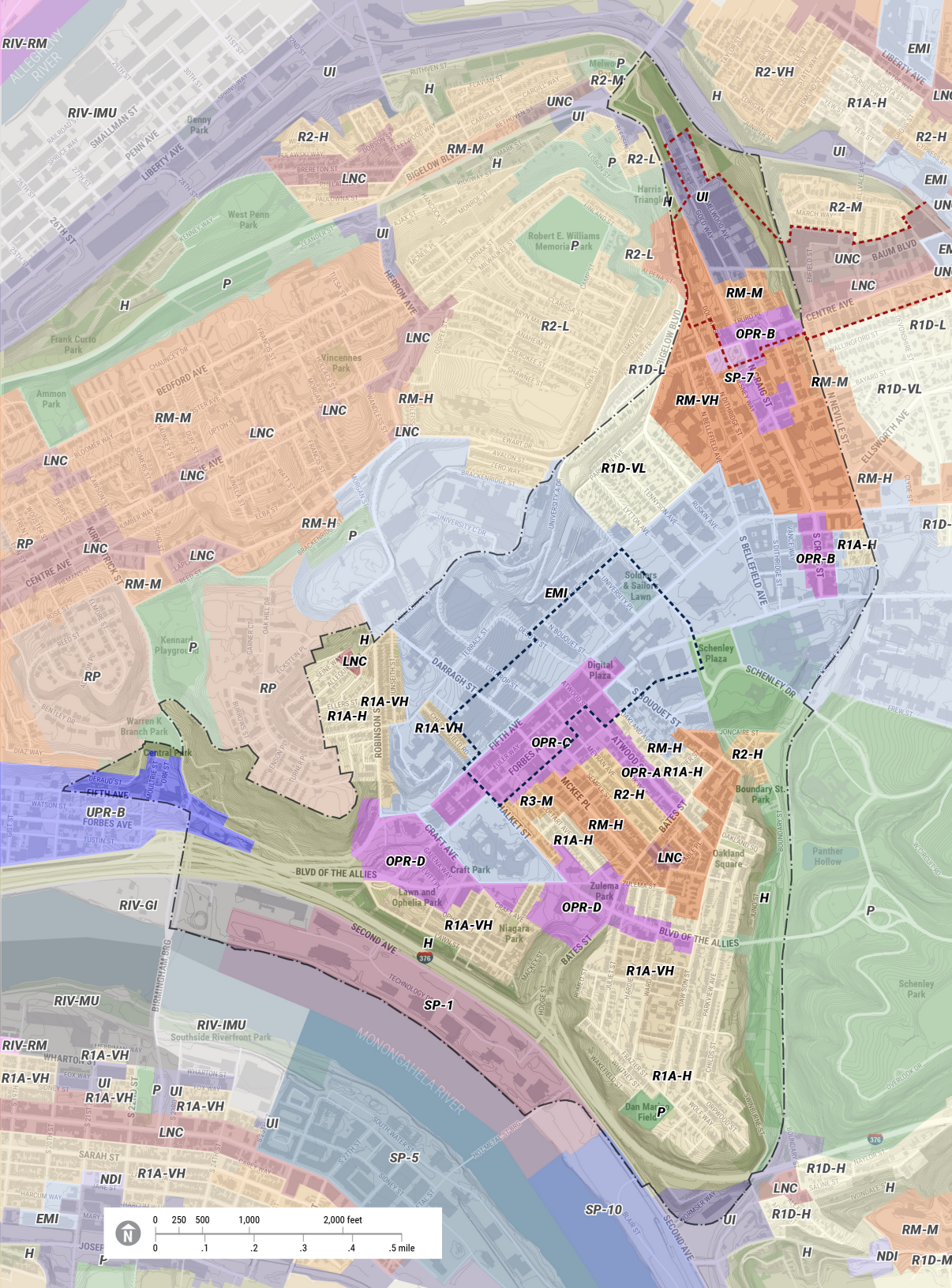
PRESENT IN OAKLAND

- R1D-VL Single-Unit Detached Residential Very Low Density
- R1A-H Single-Unit Attached Residential High Density
- R1A-VH Single-Unit Attached Residential Very High Density
- R2-H Two-Unit Residential High Density
- R3-M Three-Unit Residential Moderate Density
- RM-M Multi-Unit Residential Moderate Density
- RM-H Multi-Unit Residential High Density
- RM-VH Multi-Unit Residential Very High Density
- EMI Educational / Medical Institution
- OPR-A Oakland Public Realm District A—Atwood Street
- OPR-B Oakland Public Realm District B—Craig Street
- OPR-C Oakland Public Realm District C—Fifth & Forbes District
- OPR-D Oakland Public Realm District D—Boulevard of the Allies
- LNC Local Neighborhood Commercial
- UI Urban Industrial
- SP-1 Pittsburgh Technology Center
- SP-7 Oakland Area Planned Development District
- P Parks and Open Space
- H Hillside

PRESENT IN SURROUNDING AREAS

- R1D-L Single-Unit Detached Residential Low Density
- R2-L Two-Unit Residential Low Density
- R2-M Two-Unit Residential Moderate Density
- R2-VH Two-Unit Residential Very High Density
- RP Residential Planned Unit Development
- UPR-B Uptown Public Realm District
- UNC Urban Neighborhood Commercial
- NDI Neighborhood Industrial
- RIV-GI Riverfront General Industrial
- RIV-IMU Riverfront Industrial Mixed Use
- RIV-MU Riverfront Mixed Use
- SP-10 Almona
- SP-5 Southside Works

Sources: Zoning (2018), City of Pittsburgh; Pittsburgh Boundary (2019), Rivers (2015), Streets (2017), Allegheny County.



Oakland's higher-density mixed use zoning districts include urban design standards for development.

The public realm districts include a number of urban design standards, administered through the Project Development Plan. While they vary by sub-district in requirement, they include:

- Accessory surface parking is not allowed without a demonstration of alternatives and why they are not suitable for the site and project. Parking as a principal use of a property is only allowed to be provided in structures in the district; it cannot be provided as a surface lot.
- New construction must build-to the existing setback line of the surrounding buildings and neighborhood context. This line varies by each public realm subdistrict and area within it.
- Transparency is prioritized for ground floor uses. Transparent horizontal facades at pedestrian height are required along sidewalks or other public ways.
- Prominent and highly visible entrances are required on the building facade on the primary street of the public realm area – such as Craig Street, Forbes or Fifth Avenues, Boulevard of the Allies, or others as determined by the location of a property.

The Baum/Centre Overlay area also includes general design standards addressing planning goals. These standards are listed on page 130.



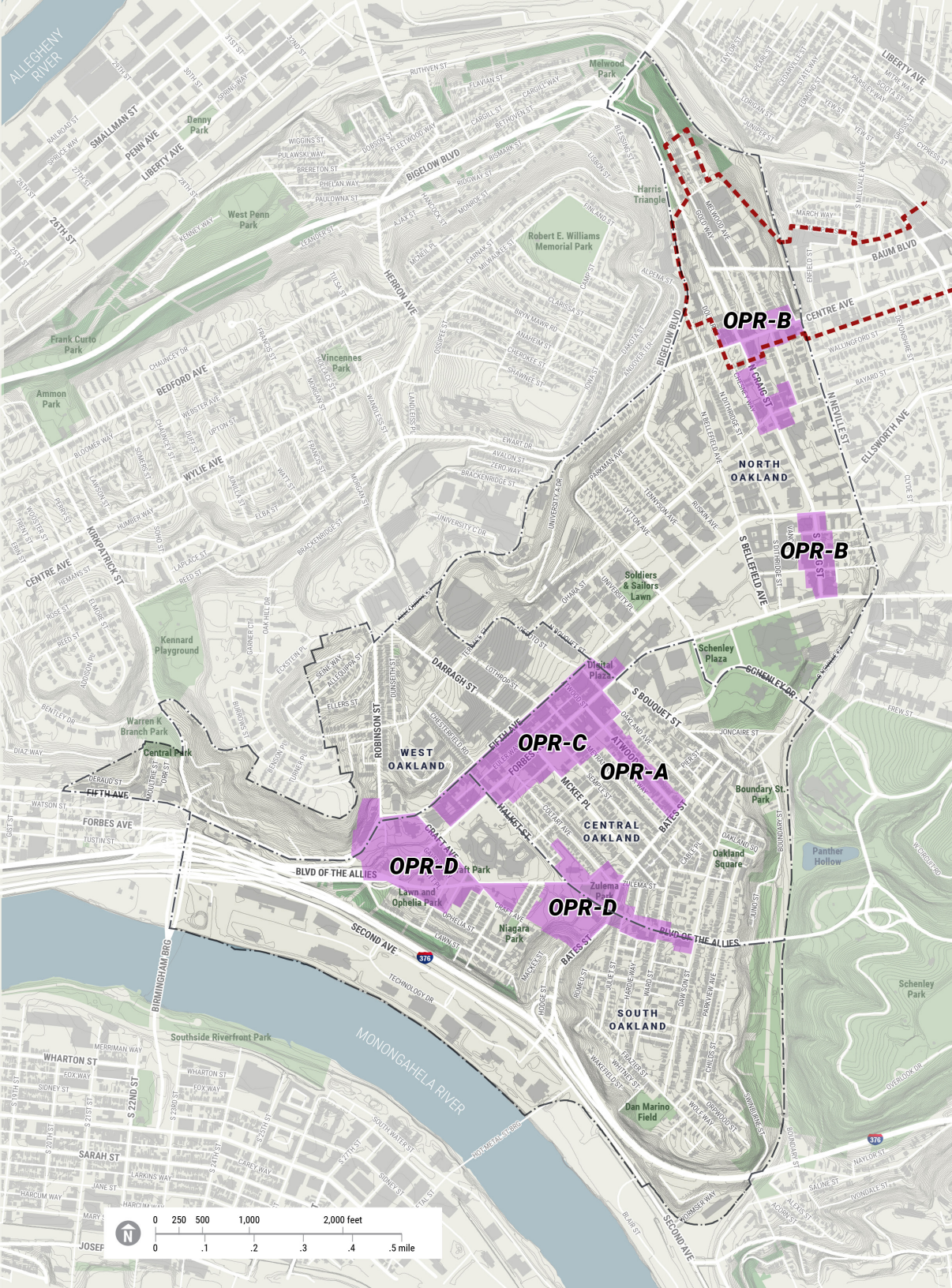
New development in the public realm districts such as these recent projects on Forbes Avenue must be constructed to meet urban design standards to match the setback line of the surrounding context, prioritize transparency on the ground floor, and include highly visible entrances.

Zoning District with Additional Urban Design Standards

--- Baum/Centre Overlay

- OPR-A Oakland Public Realm District A—Atwood Street
- OPR-B Oakland Public Realm District B—Craig Street
- OPR-C Oakland Public Realm District C—Fifth & Forbes District
- OPR-D Oakland Public Realm District D—Boulevard of the Allies

Sources: Zoning (2018), City of Pittsburgh; Pittsburgh Boundary (2019), Rivers (2015), Streets (2017), Allegheny County.



Oakland’s Institutional Master Plans detail future development sites, governing principles, and urban design and sustainability standards.

Institutional Master Plans provide a framework for development, open space, and circulation enhancements of institutions, such as hospitals and universities, which control large areas of land and are major employers within the City. All institutions located in Education Medical Institutional zoning districts are required to have a current Institutional Master Plan.

The purpose of the Institutional Master Plans is to provide a level of understanding to the community about planned growth and potential impacts on surrounding neighborhoods. The Institutional Master Plans also allow institutions the flexibility to plan and develop standards for building height, building density, parking, public open space, and transportation improvements to mitigate neighborhood impacts and also, in some cases, improve neighborhood conditions.

These Institutional Master Plans govern areas within Oakland:

- UPMC Presbyterian and Montefiore Hospitals (Oakland) Project Area Master Plan (2014)
- Magee-Womens Hospital of UPMC Project Area Master Plan (2011)
- Carnegie Mellon University Institutional Master Plan (2012–2015 Amended, 2019 update in progress)

- University of Pittsburgh Institutional Master Plan (2019)
- Carlow University Institutional Master Plan (2017)

The Institutional Master Plan Map includes an overall view of the locations of proposed expansion development projects for each of the five institutions with IMPs in the Oakland neighborhood.

UPMC Presbyterian and Montefiore Hospitals (Oakland) Project Area Master Plan (2014)

UPMC Presbyterian and Montefiore Hospitals (Oakland) is an adult medical-surgical referral hospital group and a site of ongoing research and graduate programs in conjunction with the University of Pittsburgh School of Medicine. UPMC Oakland provides a full range of health care services, including inpatient, outpatient, and

emergency care, as well as highly specialized diagnostic and treatment procedures. The UPMC Oakland plan focuses on three primary hospitals: Montefiore University Hospital (MUH), Presbyterian University Hospital (PUH), and Western Psychiatric Institute and Clinic (WPIC).

Institutional Needs

- Re-alignment and renewal of the hospitals
- PUH patient care units and surgery are in need of new facilities. The needs are met by constructing a new facility that incorporates new patient care units and base floors
- As a result of inpatient consolidation at PUH, MUH would be transformed over time to primarily outpatient functions
- Maximize parking capacity – current parking deck will be expanded vertically, will allow for a better distribution of patient and required staff/physician parking

UPMC Oakland Development Projects

Development Project	Size (SF)	Type	Uses
10 Year Envelope			
PUH Facilities Expansion	900,000	Addition	Inpatient/outpatient care, diagnostic, parking garage
25 Year Envelope			
MUH Parking Garage Expansion	140,000	Addition	Parking garage
WPIC Addition	200,000	Addition	Patient Care Units
Kaufman Parking Garage Addition	200,000	Addition	Parking Garage

Educational and Medical Institutions

— EMI - Educational / Medical Institution

Proposed Development

INSTITUTIONAL OWNERSHIP

Carlow University

Carnegie Mellon University

Commonwealth of Pennsylvania
(Lease/Maintain by UPMC)

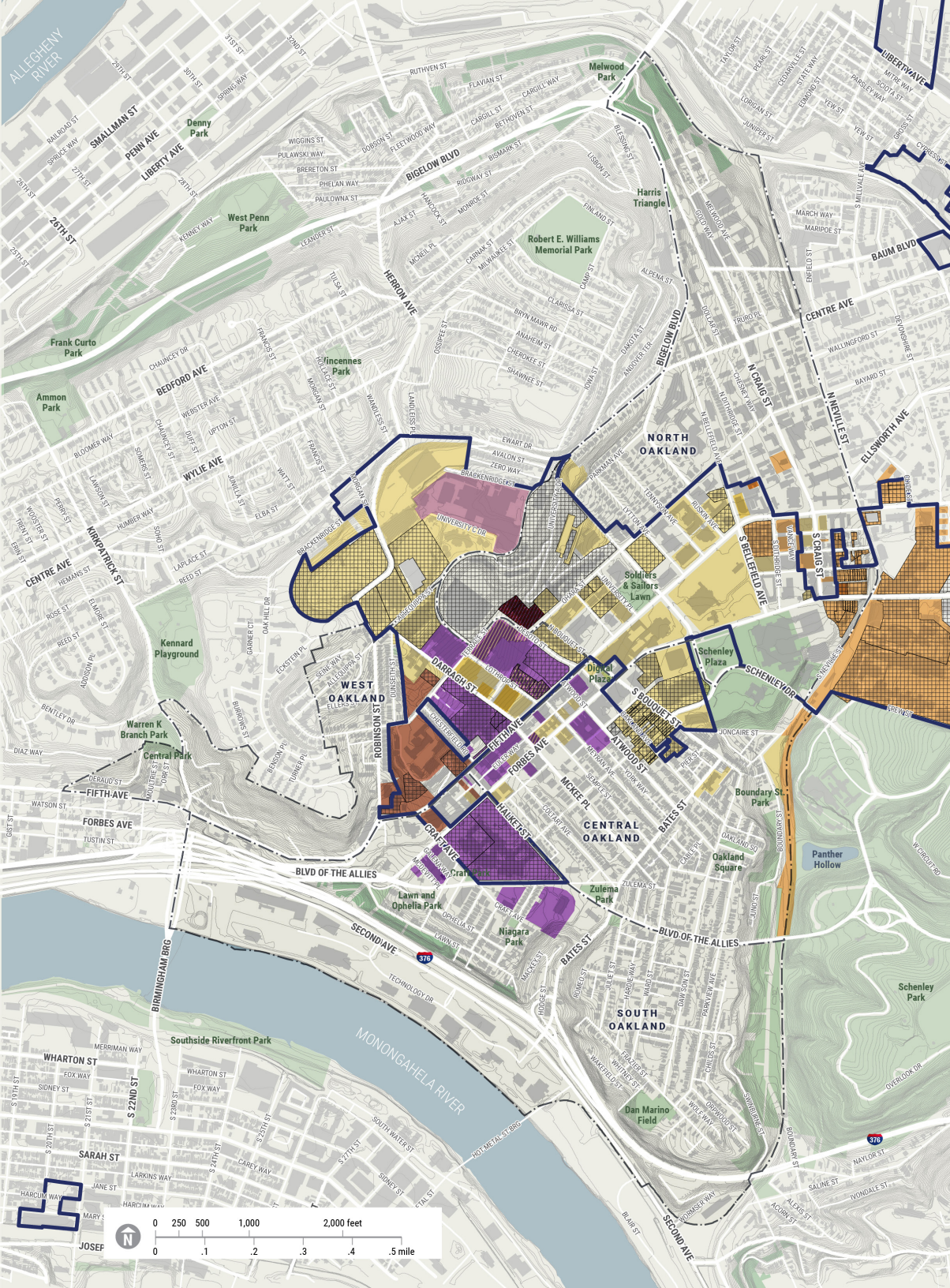
University of Pittsburgh

University of Pittsburgh
(Lease by UPMC Oakland)

UPMC Magee and Oakland

VA Medical Center

Sources: Parks (2017), City of Pittsburgh; Pittsburgh Boundary (2019), Private and Public Schools (2018), Rivers (2015), Streets (2017), Allegheny County. Parcels owned by each university from Carnegie Mellon University, Carlow University, Magee-Women's Hospital of UPMC, University of Pittsburgh, and UPMC Oakland



- Transportation Improvements: modify traffic signal at Fifth and Atwood to include new entry drive to UPMC Presbyterian Garage; Provide traffic calming measures (bike racks, enhanced pedestrian crossings, bump-outs, street trees); add structured parking as part of the PUH facilities expansion; expand Kaufman Garage in 25-year plan.
- Open Space and Pedestrian Improvements: new landscaping at Fifth and DeSoto intersection; new bus stop, new walkways, landscaping, and a shelter planned for Fifth Ave; remove street parking spaces on Lothrop, replace with bump outs and add bike racks, benches, trees and other site amenities

**Magee-Womens Hospital of UPMC
Project Area Master Plan (2011)**

Magee-Womens Hospital of UPMC is a National Center of Excellence in Women’s Health, providing women’s health care, neonatal care, and research and comprehensive medical surgical care. The Neonatal Intensive Care Unit (NICU) is the largest in Pennsylvania. Magee serves as the teaching facility for obstetrics, gynecology, gynecologic oncology, and neonatology for the University of Pittsburgh.

Institutional Needs

- Meet growing needs for services
- Support technology advances to provide services in a comfortable environment for patients and staff

- Transportation Improvements: optimize traffic signal timings at Forbes and Craft; Forbes and Halket; Blvd. of the Allies and Craft; Blvd. of the Allies and Halket; expand existing Forbes/ Halket parking garage to increase parking supply
- Open Space and Pedestrian Improvements: Install pedestrian signal count down equipment, pedestrian audible crossing equipment, and ADA-compliant ramps at Blvd of the Allies and Halket Street/Zulema/ Isaly’s Driveway; post signage at pedestrian access doors to Lot 3 and Zone 3 Lot indicating “No Mid-Block Crossing” with arrows directing pedestrians to appropriate signalized crossing locations

UPMC Magee Development Projects

Development Project	Size (SF)	Type	Uses
10 Year Envelope			
800 Wing Vertical Expansion	41,500	Expansion	Acute care and critical care areas
25 Year Envelope			
Parking Garage Expansion	95,240	Addition	Parking garage
New Ambulatory Care Facility	320,000	New Construction	Medical building and parking garage
East Wing Addition	120,000	Addition	Medical building

Carnegie Mellon University Institutional Master Plan (2012–2015 Amended)

Carnegie Mellon University is a global research university with more than 12,000 students, 84,000 alumni, and 4,000 faculty and staff. Carnegie Mellon University consists of seven schools and colleges: Carnegie Institute of Technology (College of Engineering), College of Fine Arts, Dietrich College of Humanities and Social Sciences, Heinz College, Mellon College of Science, School of Computer Science and the Tepper School of Business. The Carnegie Mellon University Institutional Master Plan is currently in the process of being updated. Current draft information is provided where available.

Institutional Needs

- Develop all-purpose, high-tech classrooms and interdisciplinary spaces
- Create additional academic and research space in engineering, arts and professional programs
- Improve and expand athletic, fitness and recreational facilities
- Optimize the potential of development sites, including the Morewood lot, recent acquisitions along Forbes Avenue, and the tennis courts
- Improve pedestrian safety on Forbes Avenue and improve bicycle facilities throughout campus
- Enhance campus open spaces, especially at Forbes and Morewood Avenues, to create identity and a sense of arrival

- Pedestrian Safety Improvements: Pedestrian safety improvements on Forbes including wider sidewalks and street trees; New Forbes pedestrian crossings to North Quad; Urban design improvements on S Craig; Safety improvements on Neville including sidewalks, trail extension and transit; Enforcement of traffic regulations
- Traffic Calming Recommendations: Traffic calming on Forbes and Fifth Ave; Bicycle connections to and through campus; Intersection reconstruction on Fifth Ave
- Parking Recommendations: Parking management and enforcement; New structured parking resources at North Quad and in Forbes & Craig area; New parking meters on Margaret Morrison; Wayfinding and signage for campus parking; Support for public transportation

Carnegie Mellon Open Space and Pedestrian Improvements

- Town Square: Redevelop to create a clear front door to the campus; Take advantage of the strength of the space (i.e. Walking to the Sky Sculpture & the Cut); Establish future connections to new growth areas, especially the North Campus
- Tepper Quad & North Green: New Tepper Quad will be the defining green center of the redevelopment of the Morewood parking lot; New quad will connect to the open space in front of the Hillman Center and will also connect to Forbes and Morewood Avenues;

Future North Green will extend from the Tepper Quad towards Fifth Ave creating pedestrian connections to properties on Fifth Ave

- Cross-Hollow Connections: Three new pedestrian crossings across Junction Hollow; One north of Forbes Avenue, connecting the North Campus to the Campus Neighborhood; Two south of Forbes, completing the cross-campus pedestrian spine, the East-West Walkway
- Wayfinding: Improving signage throughout Oakland; Improving the legibility of gateways; Integrating digital technology into transportation and pedestrian navigational systems.

Carnegie Mellon Development Projects

	Size (SF)	Type	Uses
10 Year Envelope			
Historic Core			
Scaife Replacement Engineering Building	120,000	New Construction	Academic, research, office, retail/restaurant
Addition to Wean Hall	10,000	Addition	Classroom
Addition to Porter Hall	50,000	Addition	Academic, research, office
New Academic Building	125,000	New Construction	Academic, office
Below-Grade Academic Facility	40,000	New Construction	Below grade academic, performance under tennis courts
Margaret Morrison Extension	110,000	Addition	Academic, research, office, performance, shops
East Campus			
Skibo Gym Improvements	200,000	Addition	Gymnasium
Cohon University Center Addition	75,000	Addition	Fitness facility
West Wing Addition	NA	NA	NA
West Campus			
South of Forbes Development Site (Under Construction)	425,000	New Construction	Academic, research, office, hotel, retail, residential, parking garage
FMS Building Expansion	100,000	Addition	Academic, research
Warner Hall & Loggia Expansion	70,000	Addition	Academic, admin., dining, student support
Below Ground Purnell Expansion	100,000	Addition	Below grade academic, performance
Morewood			
Capstone Building	200,000	New Construction	Administrative, research, parking garage

Carnegie Mellon Development Projects

	Size (SF)	Type	Uses
Relocation of Greek House	25,000	New Construction	Residential
Garage Relocations	10,000	New Construction	Relocation of 20 garages
Doherty Apartments Site	120,000	New Construction	Residential, academic, research, parking
Morewood Gardens Addition	80,000	Addition	Residential, academic, student use, dining
Forbes/Beeler	120,000	New Construction	Residential, academic, research, parking
North Campus			
North of Forbes Development	385,000	New Construction	Office, research, hotel, academic, retail, residential, parking garage
Tepper School of Business	400,000	New Construction	Academic, research, parking garage
New Academic Building/Parking Structure	180,000	New Construction	Academic, research, parking garage
New Academic Building	200,000	New Construction	Academic, research, residential, administrative, parking
New Academic Building	200,000	New Construction	Academic, research, residential, athletics, parking
Campus Neighborhood			
S Neville Support Building & Parking (Under Construction)	50,000	New Construction	University support and parking
Mellon Institute Entry & Infill	30,000	Addition	New entry pavilion

Carnegie Mellon Development Projects

	Size (SF)	Type	Uses
Residence of Fifth	70,000	Renovation	Existing building - Residential office, administrative, dining, parking garage
North of Fifth Multi-Use Renovation	25,000	Renovation	Existing building - Academic, research, residential, conference e, administrative, childcare, parking garage
Fifth/Clyde Residence	120,000	New Construction	Academic, research, residential, conference, administrative, parking garage
25 Year Envelope			
Donner House/Donner Dell	TBD	TBD	TBD
Margaret Morrison St. Housing	TBD	TBD	TBD
Northwest Cut Site	TBD	TBD	TBD
Greek Quad Housing	TBD	TBD	TBD
Morewood Garden Housing Site	TBD	TBD	TBD
Winthrop/Filmore Infill Sites	TBD	TBD	TBD

University of Pittsburgh Institutional Master Plan (2019; Draft for Approval)

The University of Pittsburgh (Pitt) is a premier urban research university located in the heart of the Oakland's booming tech and innovation cluster. Pitt consists of 16 schools and multidisciplinary centers all located in a condensed urban environment. Its proximity and relationship to a world-class health care system, the University of Pittsburgh Medical Center, enables close ties between teaching, research, and clinical efforts. The primary goal of the Campus Master Plan is to leverage these strengths and the University's unique characteristics and competitive advantages to provide a top value education for a cost-conscious student population.

Institutional Needs

- Create an east-west connection which will create synergies among teaching, research, and clinical uses
- Create a cohesive network of student life facilities that link south campus to north campus
- Improve open space, streetscape, and wayfinding
- Better attract talent and improve accessibility and the quality of life in Oakland and Pittsburgh by partnering with neighbors
- Seek synergy and efficiency by renewing aging facilities and building on a strong legacy of sustainability planning. New facilities will be

interdisciplinary and meet Pitt's most pressing space needs

- Establish a network of barrier-free routes, pathways, and facilities for use by all members of the campus community
- Pedestrian and Bicycle Mobility: Implement two pedestrian "braids" - one along O'Hara St. and one connecting areas of campus separation by topography - to enhance pedestrian mobility and connectivity; Work with Pittsburgh Department of Mobility & Infrastructure (DOMI) to promote and study new dedicated bike lanes on key high traffic streets; Explore ways to expand secure bicycle storage
- Transit: Leverage existing and proposed transit connections; Enhance park and ride options; Explore arrangement with ride-share services to remove need for dedicated shuttle dispatch
- Parking: Identify core and Greater Oakland parking locations that can be secured through lease arrangements for intercept parking; Create temporary or semi-permanent parking facilities that convert easily to other uses for future development; Reduce number of parking permits available to residential students; Implement a marketing and incentive program to encourage permit holders to switch to Park and Ride alternatives; Lobby Port Authority to establish direct routes to Oakland from select Park and Ride locations; Adjust parking demand by aligning fees with market rates
- Open Space and Pedestrian Improvements: New academic quad at One Bigelow; New green space integrated with the proposed

Recreation and Wellness Center; Lawn adjacent to Petersen Events Center raised to increase size and suitability for recreation and open space in the South Campus Housing Hub; smaller open space interventions throughout campus

Pitt Development Projects

	Type	Uses
Short Term (1 to 7 years)		
Victory Heights Athletic Complex	New Construction, Addition, Redevelopment, Renovation	Athletics
Scaife Hall Expansion	Addition	Health Sciences
Recreation and Wellness Center	New Construction	Recreation
North Campus Housing Hub	New Construction	Residential
One Bigelow	New Construction	Academic
South Campus Housing Hub	New Construction, Redevelopment	Residential
Forbes-Craig Apartments Redevelopment	Redevelopment	Auxiliary
UPMC Garage Expansion	New Construction	Parking
Mid-Term (8 to 15 years)		
O'Hara Street Development	New Construction	Academic
Crabtree Hall Redevelopment	Redevelopment	Health Sciences
Litchfield Towers Plaza Improvements	Renovation	Residential, Student Life
Integrated Health Sciences Complex	Redevelopment	Health Sciences
UPMC Heart and Transplant Hospital	New Construction	Health Sciences
Academic Success Center (Library Infill)	New Construction	Student Life
Long Term (15+ years)		
East Campus Hub	New Construction, Redevelopment	Residential
Frick Fine Arts Expansion	Addition	Academic
Innovation Neighborhood Development	New Construction	Academic, Research, Labs, Office
Potential Innovation Neighborhood Partner	Redevelopment	Academic, Research, Labs, Office

Carlow University Institutional Master Plan (2017)

Carlow University is a liberal arts university rooted in Catholic values with programs offering traditional, graduate and online students access to career preparation under three colleges: Health and Wellness, Leadership and Social Change and Learning and Innovation. Current enrollment is 2,254 students, with over half coming from Allegheny County, however Carlow projects growth of a more diverse population. Carlow University's goals for future growth include expanding enrollment, enhancing the Carlow brand, improving the student experience and accelerating the growth of community partnerships.

Institutional Needs

- Define the Fifth Ave. campus gateway
- Optimize campus circulation
- Create classroom environments that reflect planned changes in pedagogy
- Study possible relocation of The Campus School
- Optimize the locations of the colleges
- Transform residence halls into living-learning centers
- Provide a variety of dining options throughout the campus
- Provide on-campus health & wellness facilities
- Create an athletics facility on campus
- Transportation Recommendations: Enhance bicycle parking facilities on campus; Add on-campus wayfinding signage; Campus driveway modifications and signage; Increase parking to 650 spaces with new structured garages on surface Lots A and C; Add surface parking to Aidan Hall, Trinity Hall, McCauley Hall, Dougherty Hall, Tiernan Hall; Reconfigure surface parking on Lots B and D
- Carlow Open Space and Pedestrian Improvements: New landscaping at Lower Campus (Robinson and Fifth Av; New event break-out space from St. Agnes Center; New plaza at the upper level of the new Academic Building; New open space to replace Aquinas Hall; Additional open space and plaza amenities to replace relocated Campus School; Gateway enhancements at Craft Ave, Fifth Ave, and Terrace St.; Plaza and entry enhancements along Fifth Ave. in front of St. Agnes Center, New Academic Building, Frances Ward Hall; New pedestrian entrances at Fifth and Craft Ave, Fifth Ave at Frances Ward Hall, and Terrace St. near Parking Lot B

Carlow Development Projects

	Size (SF)	Type	Uses
10 Year Envelope			
Academic Building with Structured Parking	157,500	New Construction	Mixed institutional
St. Agnes Center Addition	2,700	Addition	Catering, ADA compliance
Residence Hall Connector	1,200	Addition	Residence Hall
Athletics Building with Structured Parking	191,300	New Construction	Athletics, events, parking garage
St. Joseph's Hall	42,729	Renovation	Recreation/Fitness
Frances Warde Hall & Dougherty Hall	68,826	Renovation	Residence Hall
St. Agnes Center	29,918	Renovation	Event Venue
CLAM to Alumni Center	10,387	Renovation	Support
Antoninian Hall	93,431	Renovation	Academic
Curran Hall	18,840	Renovation	Residence Hall
Tiernan Hall	54,165	Renovation	Academic
Forbes Ave Fitness Center	5,000	Lease Termination	Fitness
3356 Fifth Ave.	6,000	Lease Termination	Office
Kiln	400	Demolition	Art
25 Year Envelope			
Campus Edge Improvements	NA	Renovation	Streetscape

Carlow Development Projects

	Size (SF)	Type	Uses
Aquinas Green Space	NA	Renovation	Open Space
St. Agnes Green Space and Parking Lot	NA	Renovation	Open Space
Parking Lot B Reorganization (w/ Sisters of Mercy)	NA	Renovation	Parking
Sisters of Mercy Green Space and Passage	NA	Renovation	Open Space
Aquinas Hall	NA	Demolition	Residence Hall
St. Agnes School	NA	Demolition	Academic

The total assessed value of property in Oakland is over \$3.8 billion.

Many of the highest value areas are for large, institutional uses that are tax exempt, likely complicating the total assessed value of the district.

Residential properties in Central Oakland tend to be assessed at a higher value than residential properties in South and West Oakland. The value of properties in North Oakland is highly dependent on both the size of the parcel and the scale of development on the land.

The Oakland Business Improvement District (OBID) provides additional services and place-management in the core of Oakland, centered on the greater Forbes Ave corridor. They are the second-largest organization of this kind in Pittsburgh, after downtown.

OBID is funded in part by a special assessment on properties within the district, subject to a cap. Tax-exempt property owners also help fund the organization and their services.

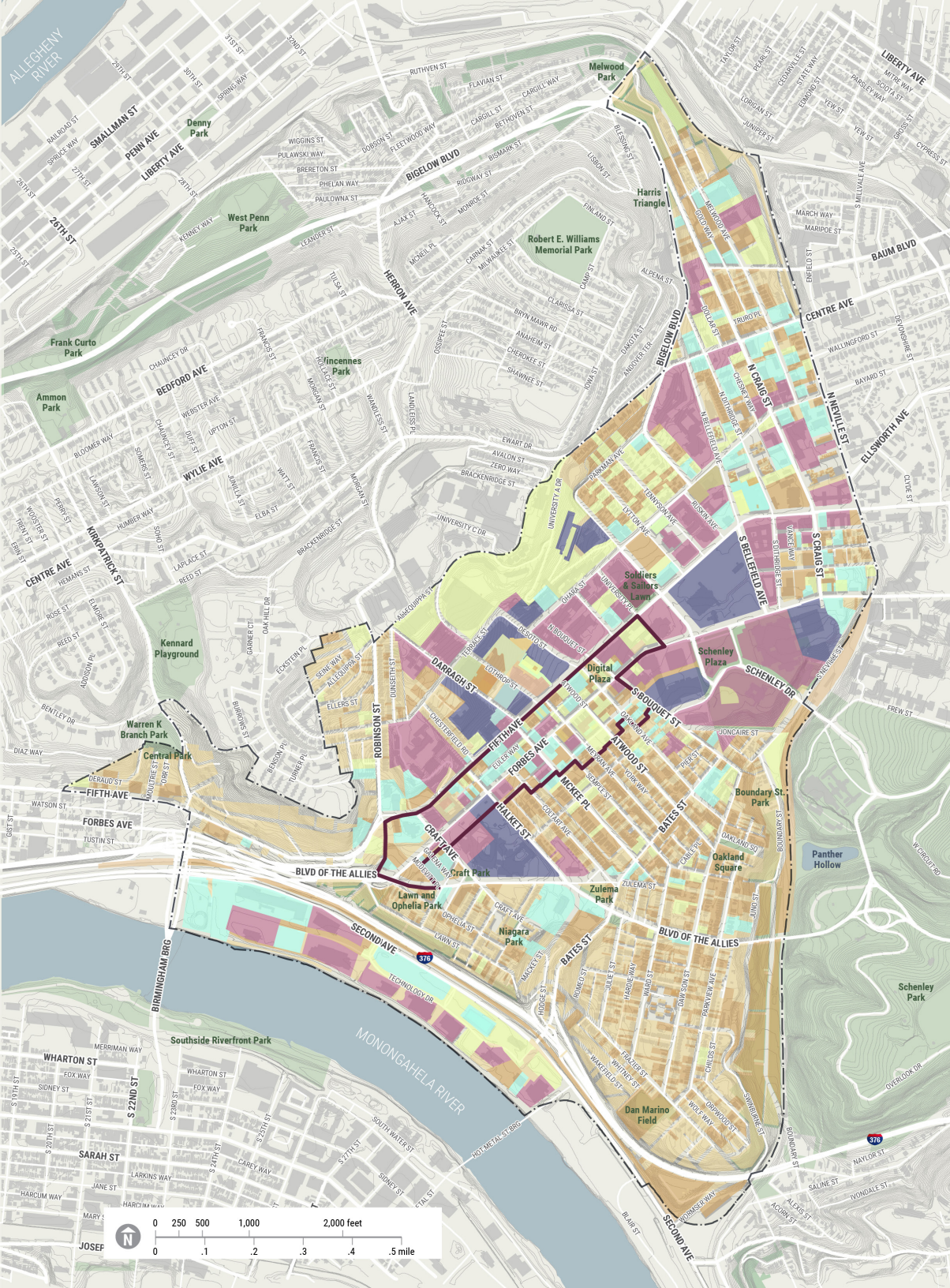
Total Assessed Value

— Oakland Business Improvement District

ASSESSED VALUE

- < \$100,000
- \$100,000 - \$499,999
- \$500,000 - \$999,999
- \$1,000,000 - \$4,999,999
- \$5,000,000 - \$49,000,000
- > \$5,000,000

Tax Assessment Data (2019), Allegheny County.



Approximately 40% of the land uses in Oakland are tax-exempt.

Government non-academic uses, such as parks, schools, and the Carnegie Library as well as the Pittsburgh Technology Center, represent 46% of the total exempt property. Institutions represent another 43%. Institutional exempt property equals 24% of the total land area of Oakland.

Pittsburgh's colleges and universities have been developing property near their campuses to provide amenities for students and to promote economic development in their respective neighborhoods. The university-owned parcels on this exhibit that are not shown on the Institutional diagram reveal retail, housing, and streetscape investments that are not exclusively for academic purposes. These include some of the highest value tax exempt properties.

The Religious category includes houses of worship, gathering places, and schools. The nonprofit parcels includes some nonreligious schools, community centers, affordable housing, and other service organizations.

The "Other" category includes utilities as well as parcels that are in the process of being aggregated for redevelopment or public use by the Oakland Planning and Development Corporation.

The Pittsburgh Technology Center is a significant redevelopment project underway in South Oakland along the Monongahela River.

The other government-owned properties include a US Post Office, City of Pittsburgh office buildings, School District buildings, and Allegheny County properties in addition to parks.

The City of Pittsburgh has taken ownership of land located on or adjacent to steep slopes to protect nearby properties and waterways from erosion. While some housing, mostly vacant, can still be found on these tracts, these parcels are generally undesirable for new development. Most of these parcels are transitioning into space for restoring the tree canopy or establishing new recreational uses. The most notable areas with steep slopes are found above the Monongahela River and Second Street, above Bates Street, and above and below Melwood Avenue. These areas have some of the lowest value of tax exempt property.

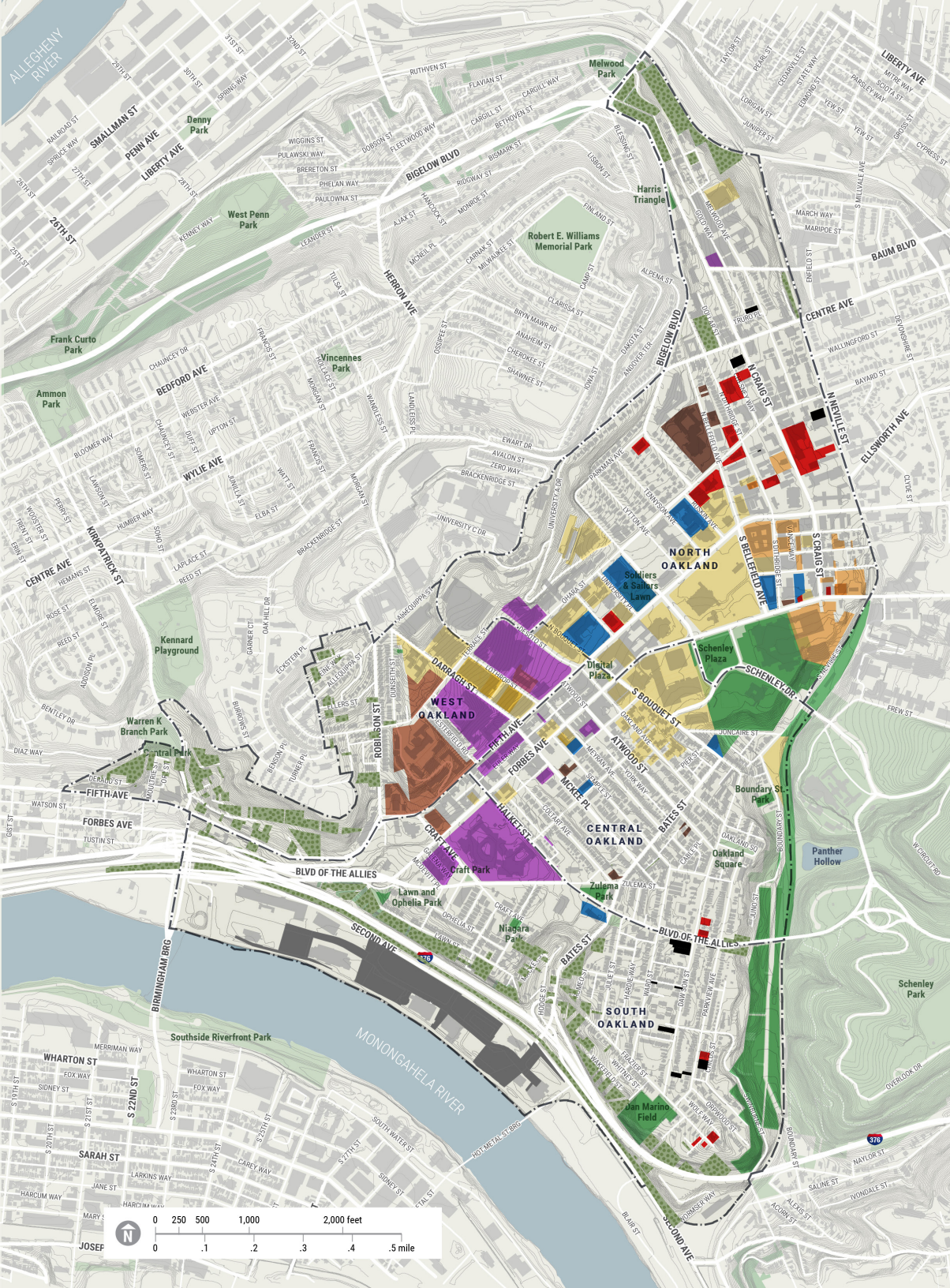
Altogether, the value of tax-exempt property in Oakland is over \$2.4 billion dollars.

Tax Exempt Properties	Acres	Value
Carlow University	16.35	\$77,100,700
Carnegie Mellon University	14.87	\$204,916,180
University of Pittsburgh	72.97	\$1,033,709,500
University of Pittsburgh Medical Center	44.48	\$826,445,400
Pittsburgh Technology Center	24.04	\$52,762,900
Religious Institution	10.02	\$36,152,080
Government	14.23	\$101,061,700
Nonprofit Organization	6.44	\$34,616,000
Steep Slope	49.24	\$14,025,600
Park	57.75	\$21,366,300
Other	2.71	\$6,447,600
TOTAL	313.12	\$2,408,603,960

Tax Exempt

- Carlow University
- Carnegie Mellon University
- University of Pittsburgh
- University of Pittsburgh Medical Center
- Pittsburgh Technology Center
- Religious Institution
- Government
- Nonprofit Organization
- Steep Slope
- Park
- Other

Sources: Tax Assessment Data (2019), Allegheny County.



Current tax abatement programs support a variety of development projects, including two affordable housing projects and a performing arts venue, as well as larger housing, office, and hotel development.

The total assessed value of the tax abated properties in Oakland is \$134,835,580. For the 3 to ten year abatement periods, the City will have foregone tax revenue of about \$429,125. The City of Pittsburgh, in partnership with Allegheny County and the Urban Redevelopment Authority of Pittsburgh (URA), administers several tax abatement programs to promote economic development and community revitalization. The tax abatement programs exempt developers and homeowners from paying real estate taxes on new construction or the value of improvements made to existing buildings for a limited time to encourage investment in neighborhoods throughout the City. According to the City of Pittsburgh Property Tax Abatements GIS data, as of Tax Year 2019, there were 17 properties that received tax abatements in Oakland. Properties with approved tax abatements are included on the Tax Abated Properties Map. The programs, described below, are administered by the City's Department of Finance-Real Estate Division in conjunction with the URA and Allegheny County's Office of Property Assessments.

There are three properties in South Oakland that are part of the Act 42 Residential Tax Abatement program, which is targeted at residential properties in distressed neighborhoods.

The City of Pittsburgh administers the Act 42 Residential and Act 42 Enhanced Residential programs. Act 42 Residential is an assessment reduction, available for three years, for rental or for sale residential renovations or new rental or for sale residential construction in distressed neighborhoods. The total reduction amounts are limited to \$86,750 of assessed value on new construction and \$36,009 of assessed value for renovations. Act 42 Residential is applied citywide. Act 42 Enhanced Residential offers the same structure as the above program, except the assessment reduction is available for ten years and up to \$250,000.

The Local Economic Stimulus abatements is for developments over \$1 million in value; there are eight projects across Oakland with this abatement. Projects include major multi-family housing, affordable housing, hotel, and office investments for both rehabilitation and new construction. The Local Economic Stimulus Abatement Program, administered by the City of Pittsburgh, is an annual real estate tax abatement of up to \$250,000 for ten years. The tax credit is applied to the incremental increase in taxes as a result of construction or improvements costs in excess of one million dollars. The program has a sliding scale for the abatement, with years one and two at 100% of the incremental increase in taxes up to the \$250,000 cap; years three and four at 90%; years five and six at 80% and so on

for up to ten years. Typically, the current use of property is commercial, industrial or vacant land and the future use of property is for residential, commercial or industrial.

There are three projects in Oakland with Residential LERTA (Local Economic Revitalization Tax Assistance) abatements, including the Oaklander Hotel, Uptown Lofts Affordable Housing Project, and the SKyVue Apartments.

LERTA is a tax credit program that provides a tax exemption for renovation and new construction in deteriorated areas of economically depressed communities. The Residential LERTA is administered by URA, the City of Pittsburgh's economic development agency. The tax credit is limited to \$150,000 and is available for a period of ten years. The program has a sliding scale for the abatement, with years one and two at 100% of the incremental increase in taxes up to the \$150,000 cap; years three and four at 90%; years five and six at 80% and so on for up to ten years. Typically, the current use of property is commercial or industrial and the future use of property is for residential rental or hotels.

There is one project in North Oakland with a Commercial LERTA abatement, the renovation of 460 Melwood Avenue into the Glitterbox Theatre a performing arts space and open venue.

Commercial LERTA – The Commercial LERTA program is administered by Allegheny County and is applied to new construction or renovation of commercial, industrial, or vacant land for the use of commercial or industrial land. The tax credit is available for five years with an annual abatement



Tax Abated Properties

- ACT 42 Residential
- Residential LERTA
- Commercial LERTA
- Local Economic Stimulus

Sources: Tax Abated Parcels (2019), City of Pittsburgh; Tax Assessment Data (2019), Allegheny County.

Pittsburgh Oakland Tax Abated Properties - Tax Year 2019

ADDRESS	PROGRAM NAME	PROPERTY TYPE	START YEAR	NO. YEARS	ABATEMENT AMOUNT	TOTAL ASSESSED VALUE	TAXABLE VALUE AFTER CREDIT	ESTIMATED TAX REVENUE*
2561 Allequippa St.	Local Economic Stimulus	Multi-Family Residential	NA	10	\$250,000	\$840,200	\$590,200	\$4,757
159 N Bellefield Ave.	Local Economic Stimulus	Commercial/Office	NA	10	\$250,000	\$2,784,280	\$2,534,280	\$20,426
4101 Bigelow Blvd.	Local Economic Stimulus	Multi-Family Residential	NA	10	\$250,000	\$26,978,900	\$26,728,900	\$215,435
5126 Bigelow Blvd.	Local Economic Stimulus	Hotel	NA	10	\$250,000	\$671,900	\$421,900	\$3,401
	Residential LERTA	Hotel	NA	10	\$150,000	\$671,900	\$521,900	\$4,207
29 Childs St.	Act 42 Residential	Residential	NA	3	\$86,750	\$34,200	–	–
3413 Forbes Ave.	Local Economic Stimulus	Multi-Family Residential	NA	10	\$250,000	\$423,000	\$173,000	\$1,394
3420 Forbes Ave.	Local Economic Stimulus	Commercial/Office	NA	10	\$250,000	\$429,800	\$179,800	\$1,449
3333 Forbes Ave.	Local Economic Stimulus	Multi-Family Residential	NA	10	\$250,000	–	–	–
3333 Forbes Ave. Unit Res	Local Economic Stimulus	Multi-Family Residential	2017	10	\$250,000	\$39,636,100	–	–
	Residential LERTA	Multi-Family Residential	2017	10	\$150,000	\$39,636,100	\$39,336,100	\$317,049
3333 Forbes Ave. Unit Retail	Local Economic Stimulus	Multi-Family Residential	2017	10	\$250,000	\$3,771,000	–	–
	Residential LERTA	Multi-Family Residential	2017	10	\$150,000	\$3,771,000	\$3,621,000	\$29,185
3333 Forbes Ave. Unit Parking	Local Economic Stimulus	Residential Parking	2017	10	\$250,000	\$6,714,500	\$6,214,500	\$50,089
	Residential LERTA	Residential Parking	2017	10	\$150,000	\$6,714,500	–	–
2015 Fifth Ave.	Residential LERTA	Affordable Housing	2016	10	\$150,000	\$541,900	\$391,900	\$3,159
460 Melwood Ave.	Commercial LERTA	Performing Arts	NA	5	\$50,000	\$800,000	\$750,000	\$6,045
3756 Orpwood St.	Act 42 Residential	Residential	NA	3	\$86,750	\$159,700	\$72,950	\$588
2520 Wadsworth St.	Local Economic Stimulus	Affordable Housing	NA	10	\$250,000	\$112,000	–	–
3321 Ward St.	Act 42 Residential	Residential	2019	3	\$86,750	\$144,600	\$57,850	\$466

Sources: Allegheny County Property Assessments, City of Pittsburgh Property Tax Abatements

* Estimated tax revenue is based on the assessed value after applied tax credit multiplied by the Pittsburgh millage rate of 8.06 (0.00806)

limit of \$50,000. There is not sliding scale for the commercial abatement, the abatement applies to 100% of the incremental value of improvements for the five year period.

Single developments may combine multiple tax abatements based on the variable use of different parcels of land and requirements of each program. For example, the SkyVue Apartments mixed-use development at 3333 Forbes Ave. includes subdivided parcels for the multi-family, retail, and parking portions of the property. The development was able to combine the Local Economic Stimulus and Residential LERTA for the different sub-parcel uses to receive maximum benefit. The table includes the list of properties in Oakland receiving tax abatements, including the program name, property use, address, abatement period, and abatement amount. The table also includes information on the current assessed value of each property from the Allegheny County property assessments database and the estimated amount of tax revenue the City would receive after the tax abatement is applied.

With the City's tax rate of 8.06 mills applied to the assessed value, the City would expect to receive estimated annual tax revenue of at least \$1,086,775 after the abatements expire. This amount could increase accordingly if tax rates and assessed values were to increase during the abatement periods. With the applied abatements, the taxable value of the properties is \$81,594,280 for a period ranging from 3 to ten years from the start year, resulting in annual tax revenue of

\$657,650. For the three to ten year abatement periods, the City will have foregone tax revenue of about \$429,125. This seems to be a manageable amount of foregone revenue given the temporary status of the abatements and the positive impact the incentives have on economic growth in the City.

Oakland is served by three major sewersheds, the M-19A/B, the M-29, and the A-22.

Both the M-19A/B and M-29 drain to the Monongahela River as part of a combined sewer system for both sewage and stormwater. The A-22 drains to the Allegheny River. The M-19A/B are subsidiary sewersheds in South and Central Oakland to the larger M-19 area, which also covers areas of Uptown and the Hill District. The M-19A has 143 directly connected impervious acres and 318 million gallons of wet weather volume flowing through it annually. The smaller M-19B has 32 impervious acres and 76 million gallons of wet weather volume.

The M-29 is a sewershed encompassing the Oakland, Squirrel Hill, Greenfield, and Shadyside neighborhoods across an area approximating the watershed of Four Mile Run. It includes Junction Hollow and Panther Hollow stream and Panther Hollow Lake. The M-29 sewershed includes approximately 362 impervious acres and 1.426 billion gallons of annual wet weather flowing through it.

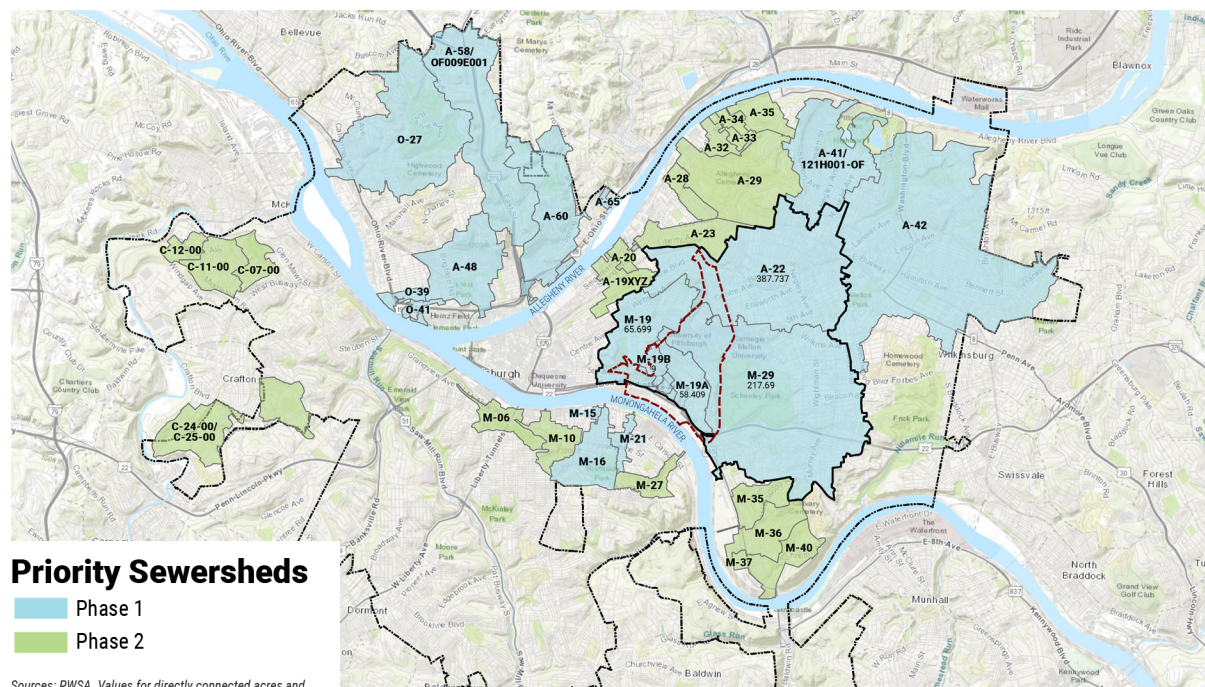
The A-22 watershed is one of the largest sewersheds, containing portions of North Oakland, Shadyside, Squirrel Hill North, Bloomfield, Friendship, East Liberty, and Garfield neighborhoods with 898 impervious acres. There are approximately 1.595 billion gallons flowing through in annually. The A-22 produces the third most combined sewer overflows based on volume within the sewer system.

The M-19A/B, M-29, and A-22 are three of the of thirty high priority sewersheds that have been analyzed by PWSA for improvements that address potential CSO reductions, flood hazards, and direct stream inflow locations across the City. During storms, the combined sewage and stormwater can exceed the system capacity and discharge directly into the river, degrading water quality, and contributing to street flooding and basement backups. Among other strategies, PWSA is pursuing green infrastructure strategies under the Green First Plan to manage stormwater runoff and reduce overflow events.

Out of the 30 high-priority sewersheds, the M-29 was of one of six selected for strategic urban

planning opportunities for green infrastructure and is currently moving forward as part of the Four Mile Run project. More information about public green infrastructure projects can be found at <https://www.pgh2o.com/projects-maintenance/green-stormwater-projects>. The Shadyside/A-22 Sewershed Flooding Solutions and Green Infrastructure Assessment is a detailed evaluation of opportunities in the A-22.

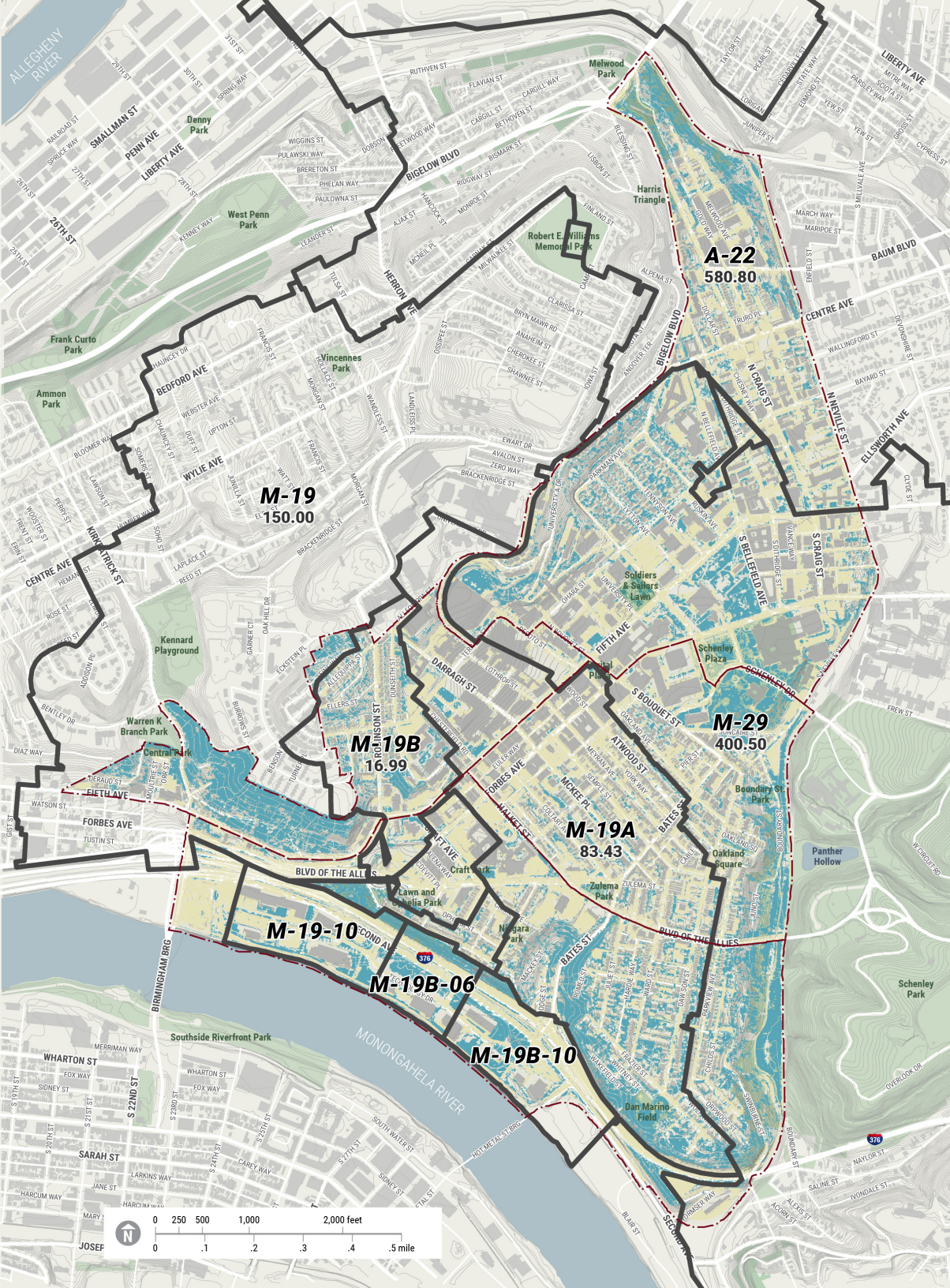
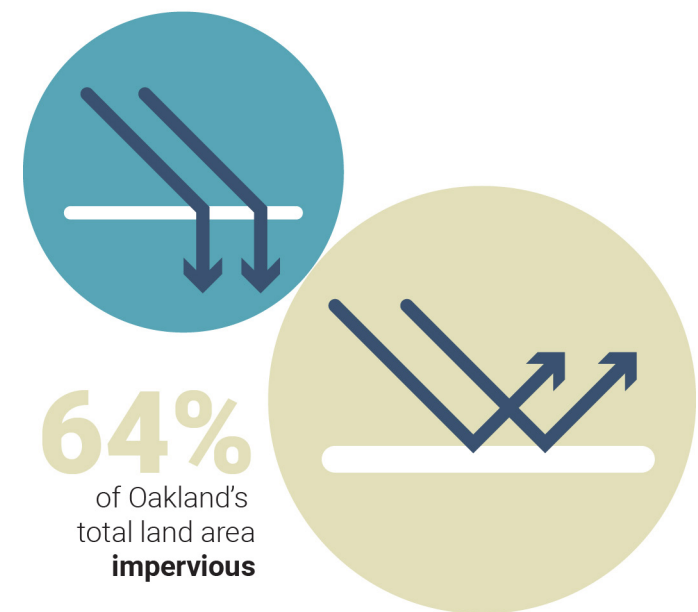
Oakland has over 600 acres of impervious area or an estimated 64% of total land area. Central Oakland has the most impervious surface, at 74% of land area. Pervious areas are concentrated in open space, lawns, parks, and the hillsides surrounding Oakland. Increases in impervious



Priority Sewershed

- Neighborhoods' Boundaries
- ▭ Sewershed
- ▭ Pervious Area
- ▭ Impervious Area

Sources: PWSA. Values for directly connected acres and annual wet weather volume can be found in Table 3-3 and Appendix C of the Green First Plan, available on PWSA's website.



surfaces, such as roads, parking lots, and rooftops, are the main contributor to increased stormwater runoff. However, pervious surfaces in parks, lawns, and green infrastructure, can reduce stormwater runoff through retention and infiltration. Managing land cover types within Pittsburgh is key to managing stormwater runoff quantity and water quality as it flows to Pittsburgh's sewers and rivers.

Oakland is a highly urbanized area with many impervious surfaces, making it a great candidate for innovative ways to manage stormwater. Whether it is a private or public development adding pervious areas through green infrastructure or other stormwater management practices such as swales, underground detention systems, and green roofs can abate pollution and flooding within the neighborhood.

By code, new development is required to retain as much stormwater runoff on site and release it to the sewer system at the same rate or less than the pre-development rate.

Projects that disturb more than 10,000 square feet of land or add more than 5,000 square feet of impervious surface are required to obtain stormwater management permits. The first inch and half of stormwater must be managed with green infrastructure strategies unless it is technically infeasible on the site. Green infrastructure strategies used as a part of new development may include bioretention areas and green roofs, but many projects use underground storage tanks and other non-green techniques to meet the pre-development release rate and volume requirements. The majority of projects have

on-site stormwater management, but larger landowners like the institutions in Oakland are working with the City to pilot district-scale stormwater projects that would treat larger volumes from multiple sites.

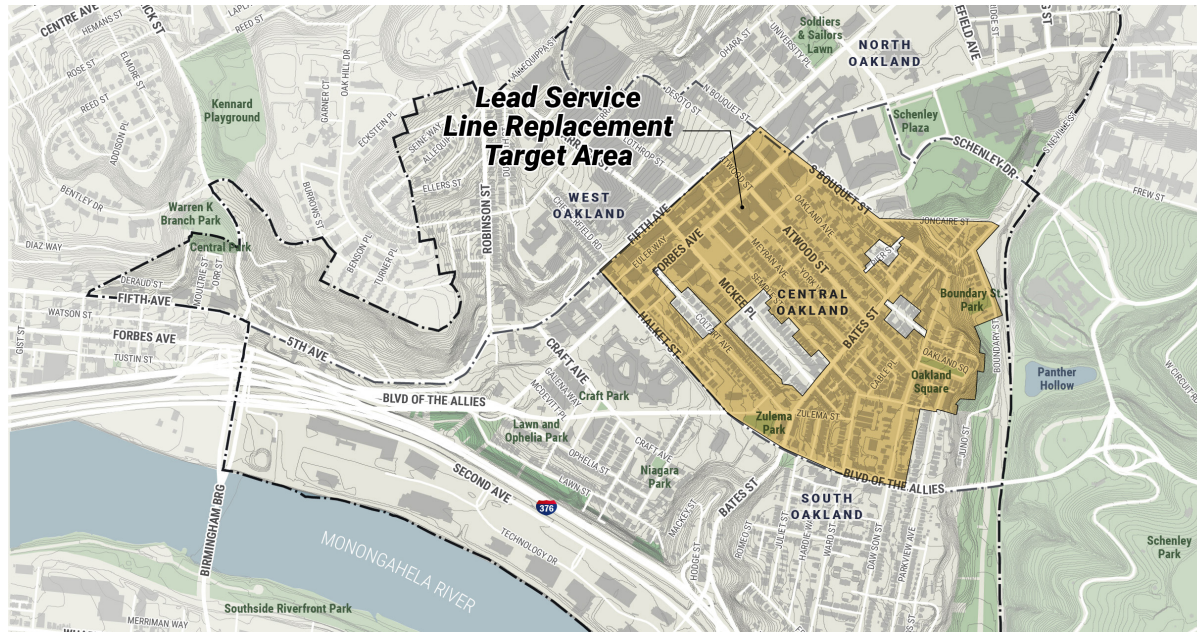
The stormwater management code is currently undergoing a second phase of updates to regulate development consistent with the watershed based stormwater plan.

The first phase of updates, previously completed, ensured base compliance with Act 167 (the Pennsylvania Stormwater Management Act). The second phase is a more comprehensive code update in order to meet the challenges posed by increasing urban development and intensifying rainfall events in Pittsburgh. The second phase of code updates also incorporates the Green First Plan.

A new stormwater management fee, based on the amount of impervious acreage on the property, will soon be assessed on all property owners, likely beginning in 2021. Reducing impervious acreage will reduce the fee, and there will be credits for managing additional stormwater beyond the requirements.

The water distribution system throughout Oakland is managed by PWSA water lines and institutions' district water lines.

There is large demand for water in Oakland, but the infrastructure in place has the capacity to provide safe, reliable water to all entities. To improve water distribution infrastructure even further, PWSA is replacing lead lines connecting to homes and businesses.



Central Oakland is currently one of four areas targeted for lead service line replacements for residential water service. PWSA maintains a water service line replacement map here that provide more information about residential properties and how to apply for a replacement at no cost to the customer.

<http://lead.pgh2o.com/your-water-service-line/planned-water-service-line-replacement-map/>

2020 Lead Service Line Replacement Target Area

Project In Progress

Source: PWSA

Green infrastructure strategies are the first choice for public and private stormwater management projects.

Under PWSA's Green First Plan, PWSA and the City of Pittsburgh are pursuing green infrastructure projects that manage stormwater flows during a storm to reduce PWSA combined sewer outflows. These projects also offer positive benefits to improve water quality, restore local habitats, and enhance neighborhood settings. As part of the green infrastructure design process, PWSA analyzes criteria including volume loading ratios, runoff volume, and rain capture and quantifies project performance based on multiple factors, including cost effectiveness and CSO volume reduced in a total year.

The award-winning Centre and Herron stormwater project is a green infrastructure project in the Hill District above Oakland. The project is estimated to manage one million gallons of stormwater runoff annually. As an already-built project, Centre and Herron is maintained and monitored to manage its effectiveness and offer lessons learned for future green infrastructure projects.

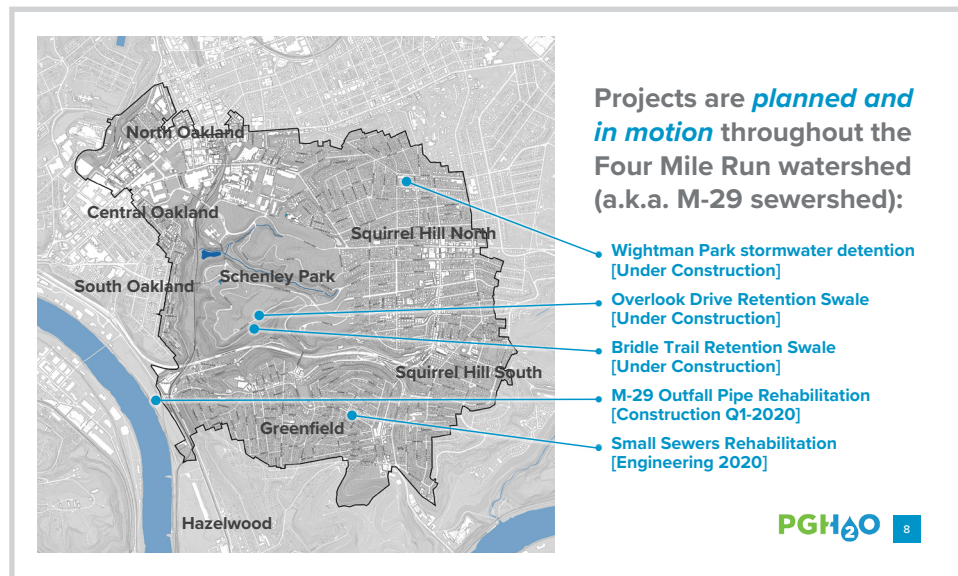
The Four Mile Run Stormwater Project is a major green infrastructure effort encompassing a number of projects in Schenley Park, Greenfield, Hazelwood, Oakland, and Squirrel Hill. Two drainage channels are currently under construction in Schenley Park along Overlook Drive and the Bridle Trail as early action projects. Panther Hollow Lake will be reconfigured to maximize the depth of the lake to provide more

storage. PWSA is working with the PADEP to obtain a dam permit to convert the lake into a dam that can hold a 100 year storm. It will also include amenities such as a walking path, stone jetties, and constructed wetlands and a forebay area to help manage sediment.





Stormwater will be directed into a new surface channel that will mimic the path of historic streams in Junction Hollow and Panther Hollow from Panther Hollow Lake to the Monongahela River, allowing the lake to discharge to the river instead of the combined sewer. The stream will include features like constructed riffles that will help control grade and simulate natural stream features. The project will be phased to ensure consistent trail access. Piped connections, currently under evaluation, will convey water to the river at the beginning and end of Junction



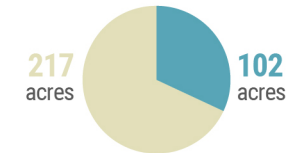
Centre and Herron green infrastructure: Stormwater runoff from surrounding roads is directed into a 585-foot long bioswale that runs alongside the sidewalk of Centre Ave and helps prevent street flooding. Water moves through a series of cascading pools and is absorbed by the ground and plantings. The excess flows into underground storage tanks before being slowly released into the sewer system to reduce overloading of the combined sewer system.



Topography and Green Infrastructure Projects

-  Steep Slopes (25%+)
-  Green Infrastructure Project In Progress
-  Pervious Area
-  Impervious Area

NORTH OAKLAND



CENTRAL OAKLAND



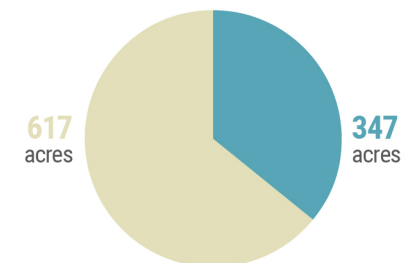
WEST OAKLAND



SOUTH OAKLAND



OAKLAND



 Impervious area  Pervious area



Hollow. Additional stormwater improvements will be designed for Saline Street and Naylor Run on the boundary of Schenley Park and Greenfield.

Within Oakland, PWSA is in the planning phase for a green infrastructure project in the park at Lawn and Ophelia that will capture, detain, and filter stormwater from the surrounding area. More information about the project design can be found on page 180.

Stormwater management is included as a facet. The University of Pittsburgh and Carlow University are examples of institutions developing their institutional master plans (IMPs) with the department of city planning. These IMPs have various facets to them, including stormwater management. Large institutions throughout Oakland are analyzing opportunities to manage stormwater on a campus-wide scale and decrease contributions to sewer overflows

Green infrastructure is required for new development. In order to meet stormwater management code, new development projects must manage the first 1.5 inch of stormwater through green infrastructure. Recent projects have used landscaped bioswales, rainwater catchment basements for street trees, and green roofs to achieve and exceed this requirement. The code will be updated in 2020, and requirements may become more specific and stringent.



The Lawn and Ophelia green infrastructure project will re-grade the park to create planted areas that will capture stormwater. Pedestrian access through the park will be maintained.



Many historic residential areas of Oakland have high levels of impervious surfaces.



This parking area just off Forbes Avenue is part of a large concentration of impervious surface.

Oakland's tree canopy covers only 19% of its land area, primarily on hillsides surrounding the neighborhood.

Tree canopy covers approximately 19% of Oakland. The City of Pittsburgh has set a goal in its Urban Forestry Master Plan of increasing tree canopy cover to 60% of the city's overall land area by 2032.

The vast majority of Oakland tree canopy is provided as part of steep sloping areas covered in passive forestland. These forested hillsides help provide slope stability, water management, and habitat across the city while

providing views prized by many Pittsburghers. The slopes below Lawn Street in South Oakland have been designated as a greenway, and the western slope of Junction Hollow is protected as part of Schenley Park. The Open Space PGH Plan recommends acquiring additional wooded slopes in South Oakland for designation as greenways where they connect to parks, other greenways, provide desired trail connections, or where the highest and best use of the property is undeveloped open space. Slopes that do not meet this criteria, such as in West and North Oakland, may be designated green network land.

Only 23% of Oakland's tree canopy is in the core and neighborhood areas.

Outside of Schenley Farms, Oakland's residential neighborhoods have negligible tree canopy compared to the adjacent neighborhoods.

Limited setbacks and smaller lot sizes mean there is less space for trees to grow on residential properties. The high demand for parking in the neighborhood results in lots being paved rather than planted with trees. In some blocks of Central Oakland, there is almost no tree canopy. Tree canopy covers less than 5% of developed block, on average.



Yards that have been converted to parking areas reduce the amount of overall tree canopy and pervious surface.



Small setbacks and yards can meaningfully increase tree canopy.



Where present, tree canopy growth can be limited by overhead wires and narrow sidewalks.



Trees in the core of Oakland compete for space with underground vaults and utilities, including those no longer in use.

Due to low tree canopy and high impervious surface, Oakland is an urban heat island.

Oakland's overall tree canopy is highly concentrated on steep slopes at the edges of the neighborhood. Both City of Pittsburgh data and TreePittsburgh analysis indicate that Oakland is losing tree canopy overall.

According to TreePittsburgh, over 2010-2015, the largest amount of tree canopy loss occurred on institutional properties and along main roads, likely reflecting institutional development and larger capital projects. Canopy gain occurred in steep slope areas. The trees making up this canopy are significantly more likely to be vigorous invasive species and other nuisance trees rather than higher-quality canopy.

Most of the tree canopy in Oakland's neighborhoods and core comes from trees in the public right-of-way, which are limited in how large they can grow by sight lines, utilities, and available space.

Many areas of Oakland have narrow sidewalks and little excess public right-of-way in which to plant additional street trees. Underground vaults and tanks for utilities, data networks, and stormwater management can also make it difficult to locate additional street trees within higher-density areas of Oakland. Without the shade and cooling provided by tree canopy, Oakland's core and neighborhoods are more susceptible to heat island effect. Some residential blocks of Central Oakland have no tree canopy, versus the 10% that would be acceptable in a highly-developer area. The heat map provided by TreePittsburgh shows the highest temperatures are in areas with the least tree canopy throughout Oakland.

There are approximately 1,500 trees in Oakland currently owned and maintained by the City of Pittsburgh in public right-of-way and on public property. Approximately 8% are slated for removal due to tree death or disease. While many of these locations may be suitable for replanting, others may represent poor locations for tree growth in their current format.

The City of Pittsburgh requires tree planting to increase canopy as part of zoning requirements for development. New street trees are required at a rate of one tree for every 30 feet of frontage. The City has developed minimum standards for tree pits (30 sq. ft., 3' by 10' as possible), recommended species to address utility wires, and is developing standards for soil. Institutional Master Plans for Oakland address increasing tree canopy. Pitt maintains tree canopy on their campus, including street trees and areas of significant canopy at the Student Union and Cathedral of Learning.

Major infrastructure projects in the area include tree planting. The BRT and Boulevard Betterment Project include tree planting as a part of transit improvements and repaving, respectively. The City has installed stormwater bump-outs in other parts of the city that can include trees among other plantings.

Oakland Planning and Development Corporation and community partners support tree planting and maintenance. OPDC has organized to fill empty tree pits across the neighborhood and support residents applying for TreeVitalize grants, which support planting at least ten trees per block on private property. The TreePGH program offers training and assistance with maintenance.

Tree Canopy

- Trees Owned and Maintained by City (1,500 trees)

CANOPY CHANGE (2010–2015)

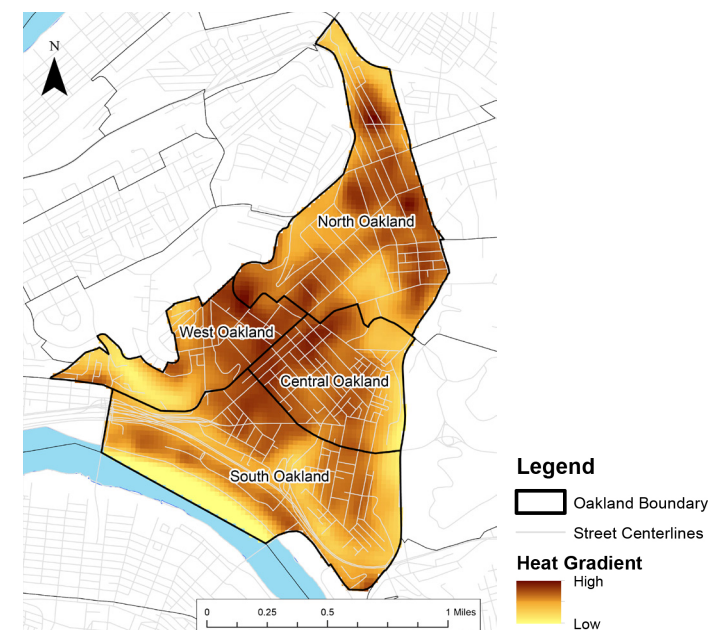
- No Change (180 acres)
- Gain (+2.4 acres)
- Loss (-34 acres)

Total canopy is estimated at 183 acres.

The majority of tree canopy in Oakland—77% of the total—is found on steep slopes at the edges of the neighborhood.

Source: LIDAR Imagery of Tree Canopy (2010–2015) Trees, City of Pittsburgh.

Oakland Temperature Map—September 2015



Source: Tree Pittsburgh



Despite neighboring one of the City's signature open spaces, Schenley Park, Oakland overall is underserved for park and open space given its density, access constraints, and the suitability of existing park space to community needs.

Despite improvements to access points to Schenley Park, including new bike lanes and the restoration of the Joncaire Steps, the steep topography of Junction Hollow and limited access points on Schenley Drive and Boulevard of the Allies means that only limited areas near these access points are within a 1/4 mile walk. Schenley Park is a major regional park and destination. It includes the core parcel of historic Schenley Park adjacent to Oakland, trails and green spaces in Junction Hollow, and Schenley Plaza and other spaces in Oakland as part of an expansive park network. The 2012 update to the Regional Parks Master Plan identified traffic calming and pedestrian safety within the park and the need to build sidewalk and trail connections to surrounding neighborhoods as the top priority for Schenley Park.

Pedestrian access to Schenley Plaza is excellent, but its location at the center of Oakland's cultural institutions means that it is outside of a 1/4 mile walk and easy access for most residents.

Parks and Open Spaces by Ownership





Park Name	Primary Use/Typology	Size (SF)
Children's Hospital of Pittsburgh		
DeSoto Street Green Space	Small Park	115,656
City of Pittsburgh		
Schenley Park	Regional Park	18,164,520
Carnegie Library Area	Campus Green/Plaza	543,351
Schenley Plaza	Campus Green/Plaza	159,987
Mary Schenley Fountain / Frick Fine Arts	Campus Green/Plaza	52,680
Former Forbes Field Open Space	Community Park/Baseball Field	25,247
Dan Marino Field/ Frazier Park	Community Park	181,689
Riverfront Trail System	Trail/Greenway	
Zulema Park	Beautification Site/Small Park	31,679
Bates Street Park	Beautification Site/Small Park	12,120
Oakland Square	Beautification Site/Small Park	24,796
Lawn & Ophelia Park	Conversion to Green Infrastructure	13,097
Niagara Park	Neighborhood Park	9,561

Park Name	Primary Use/Typology	Size (SF)
Allegheny County		
Soldiers & Sailors Lawn	Campus Green/Plaza	181,014
Allegheny County, City of PGH, School District of City of PGH		
Boundary Street Playground	Neighborhood Park	19,500
University of Pittsburgh		
Cathedral of Learning	Campus Green/Plaza	479,865
Forbes Digital Plaza	Small Park	160,344
Pitt Union Open Space	Campus Green/Plaza	86,281
Hillman Library Open Space	Campus Green/Plaza	64,800
Darragh Street Park	Small Park	15,927
Fifth Avenue Green Space	Small Park	12,930
Oakland Avenue Farm	Community Garden	10,905
St. Jochims Church		
Shrine of the Blessed Mother	Informal Shrine	1,872

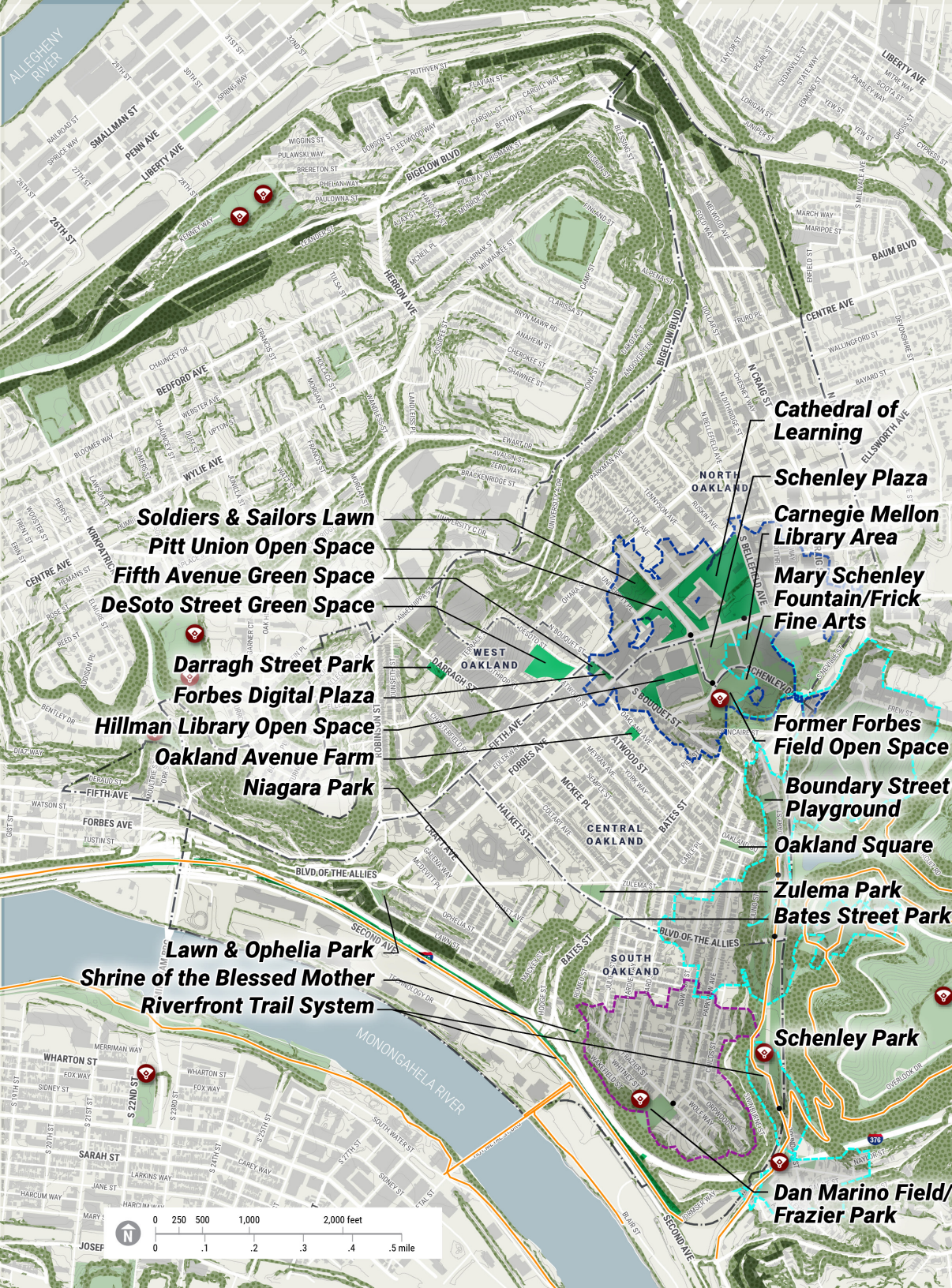
Parks and Open Space

-  Steep Slopes (25%+)
-  Parks
-  Greenways (Preserved Steep Slopes)
-  Public Spaces
-  Athletic Fields
-  Ballfields
-  Trails

1/4-MILE WALKING DISTANCE

-  Park Access Points
-  Frazier Playground
-  Schenley Park
-  Schenley Plaza

Sources: Trails (2019), Bike PGH; Ballfields (2017), Greenway (2017), Parks (2017), and Public Spaces (2019), City of Pittsburgh; Athletic Fields (2006), Pittsburgh Boundary (2019), Rivers (2015), Streets (2017), Allegheny County.



Frazier Park provides a neighborhood park and recreation space for most of South Oakland, but is located at the very edge of the plateau and so has a smaller walking radius than it would otherwise. Other open spaces in Oakland

are small in scale; many exist only because of “leftover” space from the intersecting streetgrid and topography.

Central Oakland and North Oakland are well-outside an easy walking radius of these significant public spaces. North Oakland contains no significant public open spaces, and spaces in Central Oakland are small and primarily. New development, particularly of multi-family housing in these areas, will need to provide additional open space and park amenities to serve additional residents.

In addition to Schenley Park and Frazier Park, Oakland contains the following open space types:

- **Campus Green or Plaza:** *Hillman Library Open Space, Soldiers & Sailors Lawn, Cathedral of Learning Green, Pitt Union Open Space, Mary Schenley Fountains, and Carnegie Library and Museums Green Space.* In addition to serving as major landowners and employers in Oakland, the institutions own and maintain significant open spaces, including campus greens and plazas, that support their mission and operations while providing public access. The format of campus greens or plazas varies based on the institutional need and surrounding operations and can include paved or green areas and public art features such as sculpture or fountains.

The institutions have also partnered with the City to create new open spaces in Oakland, such as at Forbes Digital Plaza and Darragh Street Park, that function as public spaces with less of a direct tie to campus operations.

A number of adjacent public park areas that are part of the greater Schenley Park system in Oakland – including Schenley Plaza, Mary Schenley Fountain, and the area surrounding the area surrounding the Carnegie Library and Museums – function like campus greens and plazas in support of these major cultural destinations.

- **Beautification Sites:** *Zulema Park, Bates Street Triangle, Craft Triangle, Oakland Square, and Parkview Median.* Beautification sites are smaller areas that provide space for visual amenities such as planted medians, landscaping areas, and monuments or art that are not part of a larger park or public space. Many beautification sites have been created because of the city’s topography and transportation network; in Oakland a series of triangular beautification sites – including the Zulema Park, Bates Street Triangle, and Craft Triangle – occur where neighborhood street grids intersect on the diagonal. Other beautification sites include Oakland Square and the planted median of Parkview Avenue. These wooded medians and squares are part of the original development of historic Oakland Square.
- Historically, most of these sites have had limited recreational purpose but can contribute

to the aesthetic quality and identity of the urban environment. Some have since been improved as small parks, with seating or additional features for public use and enjoyments. Because they are frequently located in areas of significant right-of-way change and topography, they are also potential sites for green infrastructure improvements.

- **Smaller Park Spaces:** *Zulema Park, Darragh Street Park, 5th Avenue Green Space, Forbes Digital Plaza, Oakland Square, Bates Street Triangle.* These are small green spaces or paved areas for passive public enjoyment. They frequently include public art features and seating; some beautification sites, such as Zulema Park, have been improved to become small park spaces, and others such as the 5th Avenue Green Space are smaller versions of campus greens or plazas.

Oakland also includes notable community spaces – the Oakland Avenue Farm, a community garden, and the Shrine of the Blessed Mother, an informal shrine – that do not fall into any of these categories. The Oakland Avenue Farm is a temporary use that will be replaced by future development.

There are other smaller open spaces that were not fully inventoried as part of this effort, including the Dunseith Playground in West Oakland. The Dunseith Playground is a small space that fits within the pattern of houses and residential lots lining Dunseith Street and contains simple playground equipment.



During the 2020 Coronavirus Pandemic, new public spaces were created to allow for social distancing by temporarily closing roads to vehicle access. Photos courtesy of The University of Pittsburgh.

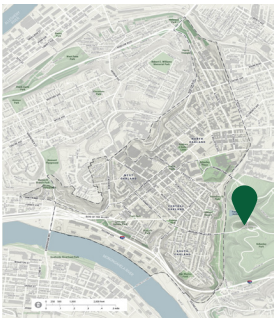
Craft Park, a beautification site formed by the triangular intersection of Boulevard of the Allies, Craft Place, and Craft Avenue functions as part of the road design and traffic control.

Many of the green spaces in Oakland are primarily grass lawns which often lack design elements and amenities that make spaces more usable for people, and also lack the kinds of plantings that provide greater environmental benefit and animal habitat. Open spaces could be better designed and programmed to provide for more outdoor learning, pollinator and bird forage

and cover, play areas, gathering spaces, quiet seating areas, and other features that would meet recreational and environmental needs. Improving access to and amenities in existing spaces can also help expand the open space network in Oakland. The following pages discuss context, setting, access, and amenities for Oakland's open spaces.

REGIONAL PARK

SCHENLEY PARK

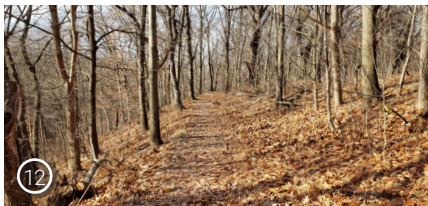


Schenley Park is a 417 acre regional park that is owned by the City of Pittsburgh and operated by the Pittsburgh Park Conservancy. Schenley Park draws patrons from across Pittsburgh and Allegheny County, providing multiple indoor and outdoor active and passive recreation opportunities; entertainment venues; and special events. The numerous varied resources include the Phipps Conservatory & Botanical Gardens; Bob O’ Connor Golf Course; Schenley Park Café and

Visitor Center; skate rink, track and field, tennis courts, swimming pool, disc golf, hiking/bike trails, volleyball, restrooms, playgrounds, soccer field, picnic areas, scenic views, dog park, programmed runs, programmed auto racing (Vintage Grand Prix), scenic views, concerts, movie nights, and many open green spaces, memorials, streams corridors, lakes, ponds, and ornamental gardens for passive natural enjoyment.

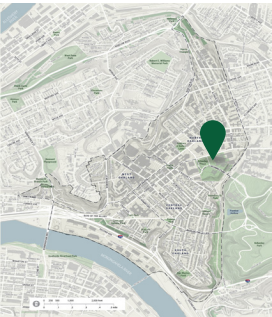
As a regional park, Schenley Park must provide good vehicular access and parking. Parking lots and on-street parking are provided throughout the park. Primary regional access is from I-376 via Blvd. of the Allies and Panther Hollow Rd. Access to Schenley Park from the surrounding Oakland neighborhood is somewhat constrained by the steep topography and presence of the rail line. There are a few local roads that connect through the Carnegie Mellon campus directly into the park, but access from the west is primarily limited to Schenley Drive Bridge and Blvd. of the Allies Bridge. These bridges do have sidewalks and Schenley Drive has a protected bike lane that extends into the park. There is a HealthyRide bike share station at the park entrance at Schenley Drive and Frew St. Within the park, main streets are wide and cater to automobiles, but most have wide sidewalks that connect to the numerous trails. Several roads, however, have inadequate or no sidewalks or bike lanes, including Beacon St., Prospect Drive, Overlook Drive, W. Circuit Rd., and parts of Schenley Drive. These roads provide on-street parking, but limited pedestrian access to get from the parked car to other areas of the park.

Ownership	City of Pittsburgh
Size	18,164,520 sf
% Green Space	95%
% Hardscape	5%
Activities/ Programming	Active and Passive Uses, Green Areas, Public Art, Lawn, Ornamental Gardens, Golf Course, Skating, Tennis, Baseball, Disc Golf, Swimming Pool, Hiking/Bike Trails, Sportsplex & Skate Rink, Restrooms, On-Leash Dog Playground, Playgrounds, Programmed runs, Programmed auto racing, Scenic Views, Track & Field, Tennis Courts, Disc Golf, Soccer Field, Picnic Tables, Bike Parking, Phipps Conservatory & Botanical Gardens
Posted Hours	6 am to 11 pm daily. Extensions by permit only.
Posted Rules	Swimming and wading are allowed in designated areas only. Pets should be on a leash at all times; pick up after your pet. Playgrounds, fields, and courts are off-limits to pets. Dispose of trash in appropriate containers or carry home. Build fires in designated cooking areas only; put out fires thoroughly. Leave restrooms neat and sanitary. Alcoholic beverages are allowed by special permit only. Do not remove or vandalize structures, natural resources, or equipment. Glass containers are not permitted in the park. Solicitations, vending, and sign posting are allowed by special permission only. Do not attach signs to trees or shrubs. Noise levels, including sound equipment, must conform to Ordinance 601.04. The City may eject any person violating any park rule or regulation. The City may confiscate items that violate park rules or regulations.
Lighting Style	Auto-Utilitarian



CAMPUS GREEN/PLAZA

CARNEGIE LIBRARY AREA



The network of public green space and plazas surrounding the Carnegie Library and Museum Complex is part of the Schenley Park system that is owned by the City of Pittsburgh and operated by the Pittsburgh Parks Conservancy. This community space surrounds the complex of the City's premier cultural resources (owned by the Carnegie Institute), including the main branch of the Carnegie Library of Pittsburgh, the Carnegie Museums of Art and Natural History, and Carnegie

Music Hall. The space is frequently used by museum and library visitors as well as the general public for passive enjoyment of the surrounding architecture, landscaping, and neighboring parks.

The public space is also located on the same property with the Bellefield Boiler Plant, a historic central steam plant built in 1907 that still provides heat and hot water to the universities and major Oakland buildings. This facility is below grade and is viewable, but not accessible to pedestrians.

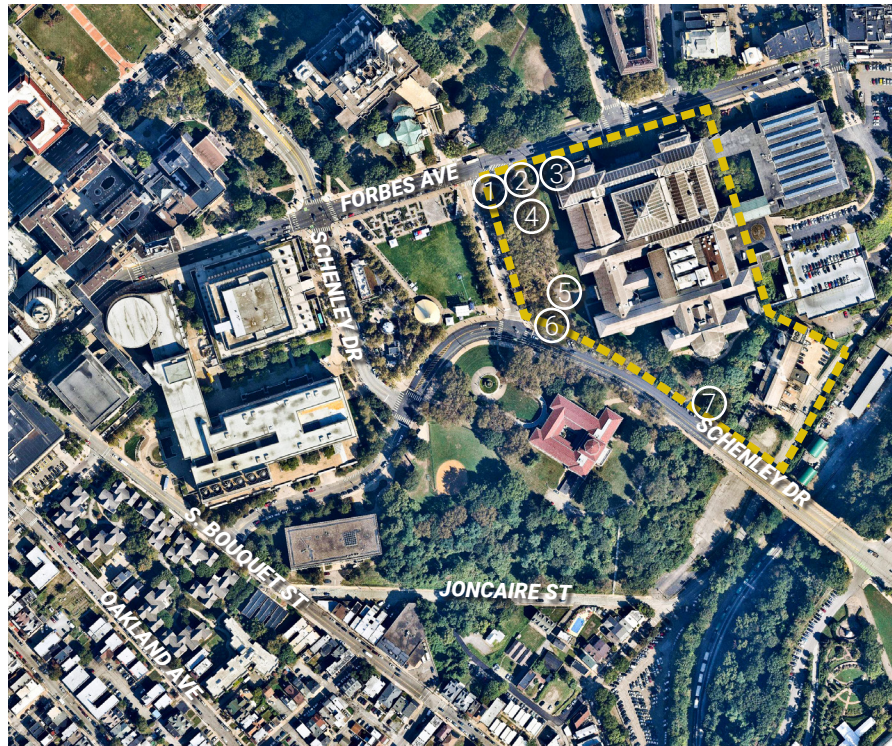
The 12-acre public open space is located across Schenley Drive Extension from Schenley Plaza, across Forbes Avenue from University of Pittsburgh's Stephen Foster Memorial building and Cathedral of Learning open space and log cabin replica, and across Schenley Drive from the Mary Schenley Memorial Fountain and Frick Fine Arts Building. The Carnegie Library public open space is primarily for passive use and includes paved pedestrian paths connecting the complex buildings to the adjacent campus and park areas. The space also features benches, bike racks, mature trees, open lawn area, a bike share station, and an open brick paved plaza area. At the time of this writing, the plaza area was cordoned off with temporary construction fencing, indicating improvements are being made.

The primary gateway to the library complex public open space is at the corner of Forbes Avenue and Schenley Drive Extension and features

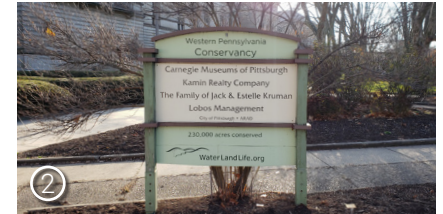
Ownership	City of Pittsburgh
Size	543,351 sf
% Green Space	85%
% Hardscape	15%
Activities/ Programming	Active and Passive Uses, Green Areas, Bike Parking, Bike Share Station, Picnic Tables, Lawn, Trees, Public Art, Seating, Picnic Tables, Seasonal Farmer's Market
Posted Hours	No posted hours
Posted Rules	No posted rules
Lighting Style	Auto-Utilitarian

ornamental garden beds on the corner and the statue of "Dippy" the Dinosaur. The main entrances to the Museums of Art and Natural History and Carnegie Music Hall are on the primary Forbes Avenue frontage, with access directly to the sidewalk. The main entrance to Carnegie Library is accessed through the open space plaza and pedestrian network off of Schenley Drive Extension. There is also an entrance to the Lecture Hall in the rear of the complex along Schenley Drive.

Like the other public spaces within the Schenley Park system, the Carnegie Library and Museum Complex open space has good pedestrian accommodation with signalized crosswalks, wide sidewalks, connected pedestrian paths, bike parking, and a bike share station at the intersection of Schenley Drive and Schenley Drive Extension. On-street parallel parking is provided on both sides of Schenley Drive Extension. On the side of Schenley Drive adjacent to the library complex, on-street parking is diagonal back-out parking instead of parallel parking. Pedestrian amenities that are lacking in this public space include a mid-block crosswalk on Schenley Park Extension

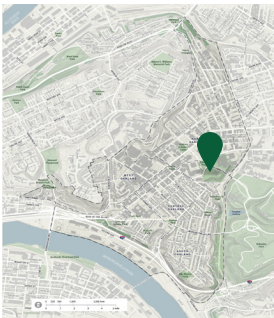


for direct access between Schenley Plaza and the library; sharrows or bicycle lanes on Schenley Park Extension; and pedestrian scale lighting. Light fixtures within the open space area are tall functional streetlights that do not match the traditional human scale lighting in the adjacent public spaces.



COMMUNITY PARK/BASEBALL FIELD

MAZEROSKI FIELD (FORMER FORBES FIELD) OPEN SPACE



Mazeroski Field is a community softball and youth baseball field named for Pittsburgh Pirates star Bill Mazeroski. The field is part of the Schenley Park system that is owned by the City of Pittsburgh and operated by the Pittsburgh Park Conservancy. Mazeroski Field is on what was previously the site of Forbes Field, the third home of the Pittsburgh Pirates, the first home of the Pittsburgh Steelers, and the home for the Negro League Baseball Homestead Grays and NCAA Pitt Panthers. Forbes

Field was in operation from 1909 to 1971 and the left outfield wall remains on the site as a sports monument. The original flagpole stands in what was fair territory near the centerfield wall.

The 0.57 acre Mazeroski youth baseball and softball field is located behind the outfield wall. The field has a fence around it and is accessed through openings in the fence from the sidewalk on Roberto Clemente Drive. The field is also located adjacent to the Mary Schenley Memorial Fountain and Frick Fine Arts Building but is separated from these spaces by fencing. The outfield wall, orientation of the field, and steep slope behind the space means that the recreational area is largely hidden from the view passersby and cut off from surrounding spaces. There is an open courtyard with benches, lighting, small lawn area, mature and new trees, historic flagpole, and the Forbes Field historical marker in front of the outfield wall facing Roberto Clemente Drive. This courtyard is shared with the adjacent University of Pittsburgh Katz Graduate School of Business.

Mazeroski Field and the Forbes Field outfield wall are located on Roberto Clemente Drive, cater-corner from the University of Pittsburgh's Posvar Hall. Roberto Clemente Drive is a two-way street with moderate traffic volumes and on-street parking. There are no bike lanes or sharrows on Roberto Clemente Drive, however, sidewalks are moderately wide and there is a

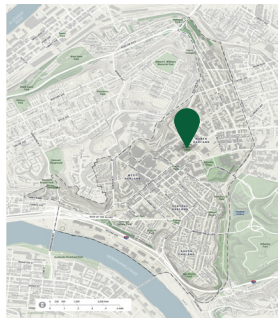
Ownership	City of Pittsburgh
Size	25,247 sf
% Green Space	100%
% Hardscape	0%
Activities/ Programming	Ballfield, Soldiers Memorial, Baseball Memorial
Posted Hours	No posted hours
Posted Rules	No posted rules
Lighting Style	Human & Auto Mix

signalized crosswalk at the intersection with Schenley Drive. The park is in the midst of the University of Pittsburgh campus and well connected to campus buildings and surrounding open spaces. There is a small unpaved parking area in front of Mazeroski Field and next to the outfield wall that has a driveway on Roberto Clemente Drive. The parking area is not screened from the street and is not very attractive. The location of the driveway is right before the intersection with Schenley Drive and the start of the Schenley Drive bike lane, an awkward location that could pose some safety hazards for pedestrians and cyclists.



CAMPUS GREEN/PLAZA

SCHENLEY PLAZA



Schenley Plaza is a very active community green space located on the busy Forbes Avenue corridor in the heart of the campuses of the University of Pittsburgh and Carnegie Mellon University. The plaza, owned by the City of Pittsburgh and operated by the Pittsburgh Parks Conservancy, is about 3.6 acres and includes a wide array of active and passive recreation resources plus entertainment, events, dining, and public art amenities. Key features include a one-acre open

lawn area; ornamental gardens; the PNC Carousel; the Porch full service restaurant; food kiosks; a tented area, chairs, and café tables; restrooms; traditional pedestrian lighting; security kiosks.

The plaza is bordered by roads on all sides, including Forbes Avenue, Schenley Park Drive, and Schenley Drive Extension. Forbes Avenue is a major multi-modal corridor with high traffic volumes, multiple one-way travel lanes, on-street parking, multiple bus routes, and a dedicated bike lane between the parking and travel lanes. A protected bike lane is located across the street on Forbes Avenue in front of the Stephen Foster Memorial building. Schenley Park Drive runs along the western edge of the plaza then curves to the southern edge. Schenley Park Drive has moderate traffic volumes, two way travel lanes, on-street parking, and a protected bike lane. Schenley Drive Extension is a narrower road with lower traffic volumes, two-way travel lanes, and on-street parking.

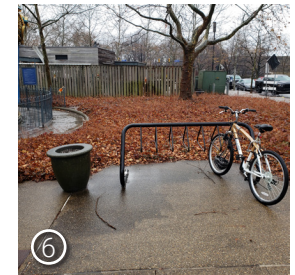
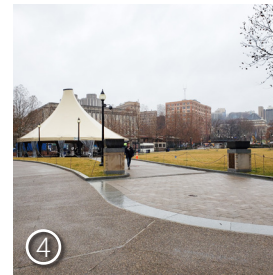
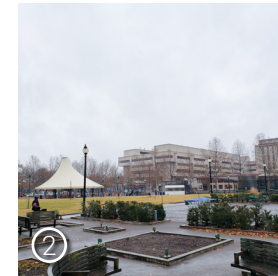
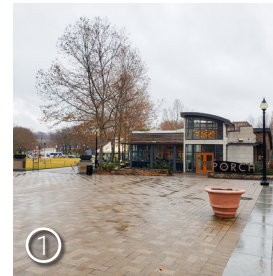
Despite fronting on a major transportation corridor like Forbes Avenue and being surrounded by urban roads, pedestrian and bicycle access is very good. There are signalized crosswalks at every intersection and an unsignalized mid-block crosswalk on Schenley Park Drive linking to the Hillman Library pedestrian plaza. Pedestrian activity is high and sidewalks along the plaza are wide and well connected to the plaza's interior pedestrian

Ownership	City of Pittsburgh
Size	159,987 sf
% Green Space	85%
% Hardscape	15%
Activities/ Programming	Active and Passive Uses, Green Areas, Public Art, Lawn, Ornamental Gardens, Outdoor and tented seating, Carousel, Cafe, Programmed family activities, Programmed family entertainment, Free wifi, Restrooms
Posted Hours	6 am to 11 pm
Posted Rules	Enjoy free wireless service; Move the chairs and tables within the Plaza; Use blankets to relax on the lawn, but not plastic material or tarpaulins; Admire the gardens - without entering flower beds, picking flowers or allowing pets to dig in soil; Use one seat on a bench designed for sharing; Walk dogs on a leash on paved areas only, provided you clean up after them; Place trash and recyclables in proper receptacles; Snap souvenir photos of Plaza memories; Request information from Plaza security and other Conservancy staff; Plaza Rules Do Not Allow: Alcohol or drug use; Sports on the lawn; Walking pets on the lawn or through landscaped areas; Bicycling, skateboarding or skating on any of the pathways; Harming birds, wildlife, park landscape or park property; Amplified music except by permit; Performances except by permit; Commercial activity, advertising or photography except by permit; Obstructing park entrances and walkways; Open fires; Feeding the pigeons; Panhandling; Rummaging in trash receptacles. To report an emergency, call 911
Lighting Style	Human-Aesthetic



paths. Bicycle racks are provided on the edge of the plaza and a HealthyRide Bike Share station is located at the corner of Forbes Avenue and Schenley Park Drive. Human scale lighting, landscaping, street trees, and streetscape furniture provide pleasant and inviting gateways to the plaza. One exception to the attractive quality of the streetscape on the plaza edge is the presence of utility boxes and a trash storage area on the sidewalk on Schenley Park Drive across from the Pitt School of Education. The trash storage area has a wooden fence that provides some screening, but the utility boxes are not screened with any fencing or landscaping.

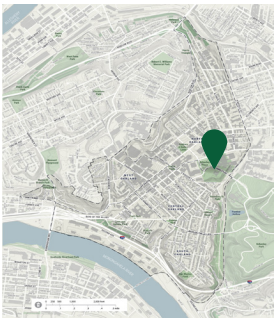
Schenley Park Plaza is surrounded by the campuses of the University of Pittsburgh and Carnegie Mellon University, providing a hub of activity for students and university employees. The plaza also provides resources



that draw families and other users from throughout the City, including the carousel, restaurants, classes, and events. Schenley Park Plaza is well connected to the surrounding network of campus open spaces, university cultural facilities, and adjacent park spaces such as the Mary Schenley Fountain / Frick Fine Arts Building, Carnegie Library open space, Hillman Library open space, and the former Forbes Field/Mazeroski Field.

CAMPUS GREEN/PLAZA

MARY SCHENLEY FOUNTAIN / FRICK FINE ARTS



The Mary Schenley Fountain and Frick Fine Arts Building are part of the Schenley Park system that is owned by the City of Pittsburgh and operated by the Pittsburgh Parks Conservancy. According to the Pittsburgh Parks Conservancy website, the fountain is an important city landmark created to honor Mary Schenley’s gift of land in 1889 that would become Schenley Park. The Frick Fine Arts Building was constructed in 1965 in the Italian Renaissance style and contains a cloistered

garden, public art gallery, recital hall, classrooms, a forty-five foot high octagon capped by a pyramidal roof, and a fine arts library.

These landmarks and surrounding open space are located on 1.2 acres across Schenley Drive from Schenley Plaza and the Carnegie Library and Museum Complex. The community/campus open space is mostly passive with, in addition to the fountain and fine arts building, paved pedestrian paths, open lawn area, benches, bike racks, mature tree canopy, traditional pedestrian scale lighting, historic markers and signage, security kiosks, and public art (Spanish American War Memorial – The Hiker).

Schenley Drive is a moderately busy traffic route with two-way travel lanes and a protected bike lane along the park. On-street parking is located across Schenley Drive adjacent to Schenley Plaza. A HealthyRide bike share station is located across Schenley Drive in front of Carnegie Library. Pedestrian access to the park is good, with wide sidewalks and three signalized crosswalks across Schenley Drive leading to the park space gateways. There is a narrow driveway on Schenley Drive, just before the point where it becomes an overpass, that provides access to a small employee parking and loading area behind the Frick Fine Arts Building. The driveway is narrow enough that it does not disrupt pedestrian access and the parking and loading area is well hidden from the street view.

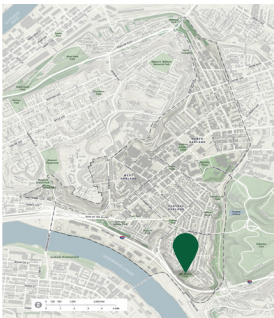
Ownership	City of Pittsburgh
Size	52,680 sf
% Green Space	85%
% Hardscape	15%
Activities/ Programming	Active and Passive Uses, Green Areas, Lawn, Public Art, Schenley Memorial Fountain, Ornamental Gardens, Henry Clay Frick Library, Bike Parking
Posted Hours	No posted hours
Posted Rules	No posted rules
Lighting Style	Human & Auto Mix

The Mary Schenley Fountain and Frick Fine Arts Building public space area is well connected to the surrounding campus and public space uses, particularly Schenley Plaza and the Carnegie Library and Museum Complex. Although they are separated by the moderate traffic volumes on Schenley Drive, signalized crosswalks provide safe pedestrian access to the public space.



COMMUNITY PARK

DAN MARINO FIELD/FRAZIER PARK



The Dan Marino Field/Frazier Park, owned and operated by the City of Pittsburgh, is an active community park located on four acres of land at the intersections of Frazier Street, Dawson Street, and Parkview Avenue in the southeasternmost section of South Oakland. The Dan Marino Field features a well-maintained softball field for youth and adult leagues with lighting for night games. The field is also used for community events and the South Oakland Be A Good Neighbor

Block Party. The Frazier Field House, located in front of the softball field on Frazier Street, includes restrooms and hosts community meetings and youth education programs. The Frazier Playground is located adjacent to the field and features half-court basketball and play equipment and benches that are aging and in fair condition. The Frazier Farms community garden is located adjacent to the field house. The garden is owned and operated by the Oakland Community Development Corporation and provides public gardening and farming opportunities for local South Oakland residents.

Frazier Park and Dan Marino Field is located on the southern edge of the South Oakland neighborhood surrounded by residences. The park is also adjacent to the I-376 highway to the south but is separated by woodlands and steep slopes. The park is easily accessible by pedestrians and bicyclists within the surrounding neighborhood. Bicyclists can also access the park from the low traffic residential streets. There is a HealthyRide bike share station located adjacent to the field house on Frazier Street, but no bike racks are provided in or near the park. There is no transit service directly to the park, the closest bus stop is on Boulevard of the Allies and Dawson Street. Marino Field has no parking lot, all parking is on-street, which can be difficult at times during league games.

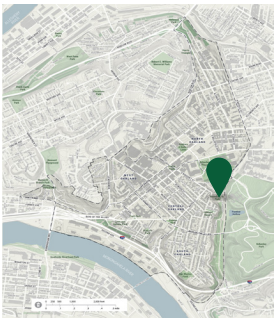
Ownership	City of Pittsburgh
Size	181,689 sf
% Green Space	85%
% Hardscape	15%
Activities/ Programming	Active Uses, Green Areas, Baseball Field, Playground, Community Garden
Posted Hours	Activity Hours: M 6-8pm Computer hours; T 4:30-6 pm Youth Open Studio; W 4:30-6 pm Youth Open Studio; Th 5-7 pm Chess club; Sun 5:30-7pm Youth Open Studio; First Tuesday monthly 6-7:30 pm song meeting
Posted Rules	Pet Owners Are Responsible for Cleaning Up After Pets; All dogs must be on a leash
Lighting Style	Auto-Utilitarian

The Open Space PGH Plan recommends a “Redevelop” for Frazier Park. Issues with the park identified in the Plan relate to the dominant use of the park as a fenced off ball field, leaving very little room for a flexible and functional neighborhood park. As such, the Plan recommends redeveloping the park by relocating the ball field (or reduce its formality and footprint), providing better access into the site by eliminating the fencing and providing pedestrian access from Whitney Street.



NEIGHBORHOOD PARK

BOUNDARY STREET PLAYGROUND



Boundary Street Park is a 19,500 square foot neighborhood park located on Boundary Street and south of Yarrow Way and the Panther Hollow Parking Lot in Central Oakland. The park is owned and operated by the City of Pittsburgh and features a hockey court and a playground with a drinking fountain and bench. At the time of this analysis, there was a portable toilet in front of the playground next to the sidewalk. Several local in-line hockey leagues use the court as well as

neighborhood pick-up team.

The park is located in a fairly remote part of Oakland. Boundary Street is a low traffic residential street that forms the eastern edge of the Oakland neighborhood, separated from Schenley Park by steep slopes and the rail line. The street is primarily bordered by preserved steep slope areas that are not developable, but there are a few residences surrounding the park. Boundary Street does have a sidewalk and on-street residential permit parking along the park that extends from Yarrow Way to about 50 feet past the park, where the last residence is located. At this point, Boundary Street becomes an access drive to the Junction Hollow Trail, where cars can park on the street and cyclists can ride to access the trail.

The Open Space PGH Plan recommends a “Relocate, Divest or Naturalize” strategy for Boundary Street Park. Issues with the park identified in the Plan relate to the isolation of the park from the nearby dense Oakland neighborhood and not serving much of the neighborhood. The Plan recommends relocating the park to another site, possibly the Zulema Park, which is more accessible and better suited to serve more of the neighborhood. Activating Zulema Park would require streetscape treatments to reduce the impacts of the surrounding major streets. The Plan also

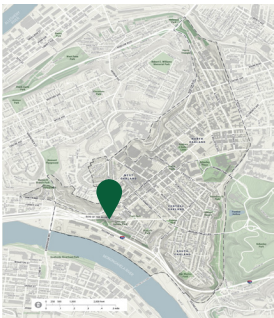
Ownership	Allegheny County, City of Pittsburgh, School District of City of Pittsburgh
Size	19,500 sf
% Green Space	90%
% Hardscape	10%
Activities/ Programming	Active Uses, Green Areas, Trees, Playground, Basketball Court, Funnel Ball, Seating
Posted Hours	No posted hours
Posted Rules	No posted rules
Lighting Style	Street Lights Only

recommends divestment of the park if an alternate owner can be found or, if not, to naturalize the site.



BEAUTIFICATION SITE/NEIGHBORHOOD PARK

LAWN & OPHELIA PARK



The neighborhood park located at the intersection of Lawn and Ophelia Streets, owned and operated by the City of Pittsburgh, provides a playground and greenspace for the adjacent Oakcliffe neighborhood in South Oakland. The park is bordered by sidewalks along Lawn and Ophelia Streets, which are in fair to good condition. Pedestrians can easily access the park from the adjacent neighborhoods south of Forbes Avenue. The park is adjacent to a Hwy 885 off ramp and

areas to the north cannot safely cross Forbes Avenue to access the park by foot or bike. The park is well maintained and provides playground equipment and seating areas that aging and in fair condition. The park is primarily enjoyed by families in the immediate Oakcliffe neighborhood.

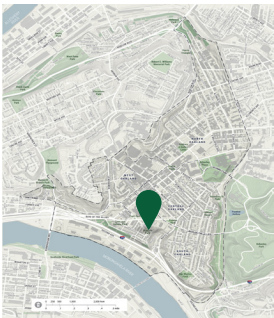
The 2013 Open Space PGH Plan recommendations for Lawn and Ophelia Park are Divest and Naturalize. Divest means to transfer all or part of the property to another City department, sell the property, or transfer ownership to another non-city entity. Naturalize means to revegetate the property with appropriate species (riparian or upland), restore ecosystem or riparian processes, or remove invasive species or non-native vegetation. The City has partnered with the Pittsburgh Water and Sewer Authority (PSWA) with plans to transform the park to a naturalized public space for stormwater management. The plan requires transfer of maintenance to PSWA and ultimate removal of the playground equipment and redesign of the park into a community gathering space with stormwater management features, including rain gardens, vegetated curb bump-outs, and native meadow plantings. The intent of the transformation is to transfer maintenance costs to another agency (PSWA) to allow for investment in the nearby Niagara Park, a more centrally located and accessible park, for active recreation improvements.

Ownership	City of Pittsburgh
Size	13,097 sf
% Green Space	75%
% Hardscape	25%
Activities/ Programming	Passive and Active Uses, Greening, Trees, Lawn Seating, Playground
Posted Hours	Park opens at 6 am; Closes at dusk
Posted Rules	Dogs are not permitted on playground and courts at any time. All violators subject to fine and/or imprisonment.
Lighting Style	Auto-Utilitarian



NEIGHBORHOOD PARK

NIAGARA PARK



The Niagara Park is a small neighborhood park at the intersection of Niagara Street and Craft Avenue in South Oakland. The park is surrounded by a mix of moderate and high density residences and some businesses and institutions, including Magee Women’s Hospital and the Children’s Center of Pittsburgh. The Niagara Park provides active and passive recreation resources for the neighborhood, with playground equipment, seating, and a basketball half court. Once a year,

the University of Pittsburgh hosts a series of neighborhood block parties throughout Oakland, including the Oakcliffe block party in Niagara Park. These “Be A Good Neighbor Oakland Block Parties” bring together students, long-term residents, University officials, Pittsburgh Police, elected officials, and community organizations to connect with their community. The park is easily accessible for pedestrians and cyclists, with wide sidewalks along narrow residential streets. Currently there are no bike racks, bike share stations, or bike lanes near the park.

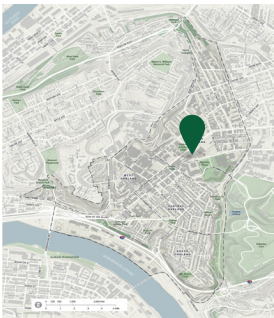
The playground equipment and park amenities in Niagara Park are currently dated and are in fair to poor condition. The 2013 Open Space PGH Plan recommends future City investment in the park. In 2019, the Department of Public Works prepared a concept plan, with input from the community, for renovations to Niagara Park. Proposed improvements include relocation of the half-court basketball court, new safety surface and playground equipment, upgraded perimeter fencing, and new seating options. Implementation of these improvements are planned for the 2020 construction season.

Ownership	City of Pittsburgh
Size	9,561 sf
% Green Space	50%
% Hardscape	50%
Activities/ Programming	Passive and Active Uses, Basketball Half Court, Green Areas, Trees, Lawn, Seating, Playground
Posted Hours	Not posted or illegible
Posted Rules	No throwing trash on the ground; no bicycles in the playground; no rollerblading and skateboarding; no throwing sticks and stones; (next several rules are illegible); Children must have supervision
Lighting Style	Street Lights Only



CAMPUS GREEN/PLAZA

PITT UNION OPEN SPACE



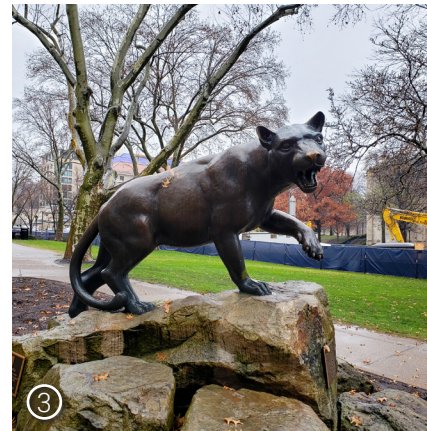
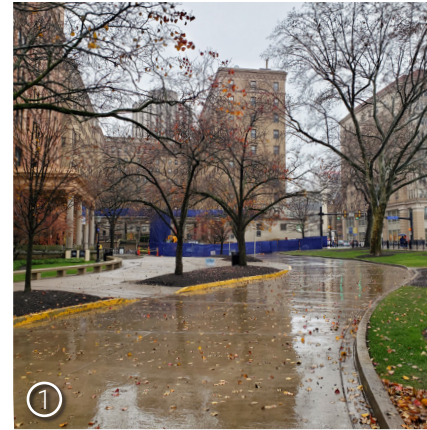
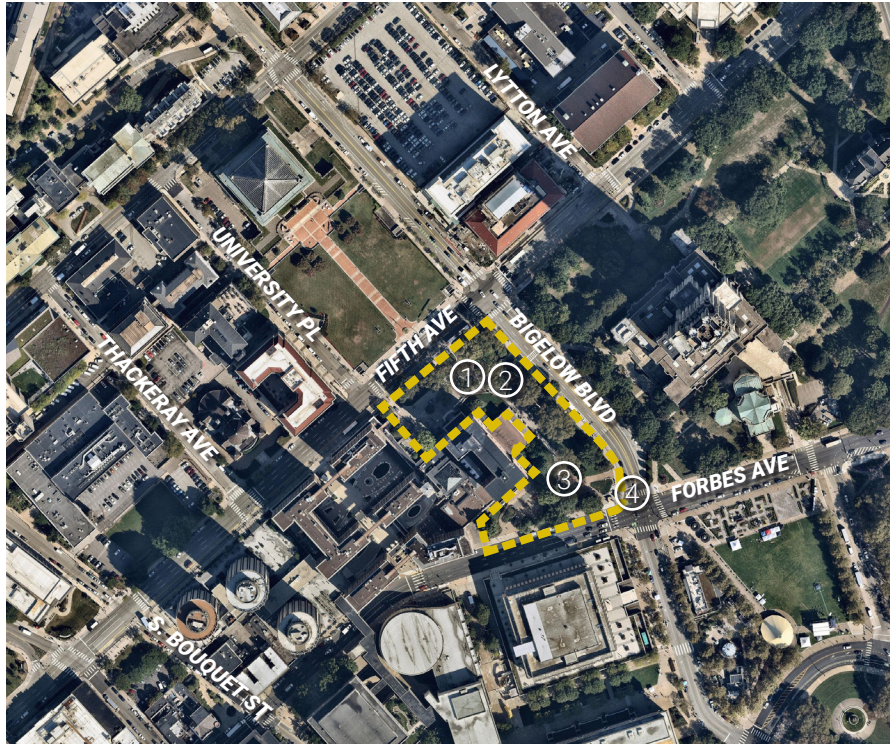
The grounds surrounding the William Pitt Student Union is a highly active campus green space and gathering amenity at the heart of the Pitt campus. The campus green is about two acres of land located directly across Fifth Avenue from the Cathedral of Learning, across Bigelow Boulevard from the Soldiers and Sailors Lawn, and cater-corner to Schenley Plaza across Forbes Avenue. There is also a pedestrian connection linking to the center of Schenley Quadrangle.

The Pitt Union is the epicenter of student activity on campus and the grounds provide a supportive open space environment for student gathering, student events, and student organization activities. The space features open lawn areas, ornamental plantings, mature trees, traditional lighting, table and seating areas, bike racks, pedestrian paths, historic clock, and the iconic Millennium Panther Statue. The Pittsburgh Stop outdoor vendor kiosk sells Pitt sports apparel at the corner of Bigelow Boulevard and Forbes Avenue. The grounds are well connected to surrounding the surrounding campus and business community with crosswalks, wide sidewalks, bike lanes on Bigelow Boulevard and Forbes Avenue, and bus shelter on Bigelow Boulevard. There are vehicular access drives on Forbes Avenue and Fifth Avenue that disrupt the pedestrian flow and feel of the public green space.

At the time of this analysis, Bigelow Boulevard was closed for a major campus infrastructure improvement project. The Bigelow Block Transformation Project was initiated in November of 2019 to align University of Pittsburgh campus infrastructure work with the City of Pittsburgh’s Complete Streets plan for Bigelow Boulevard. The reconstruction project, anticipated for completion in August, 2020, entails installing and boring utility lines, relocating and enhancing the mid-block pedestrian crosswalks, upgraded streetscaping and landscaping, traffic calming, and bike

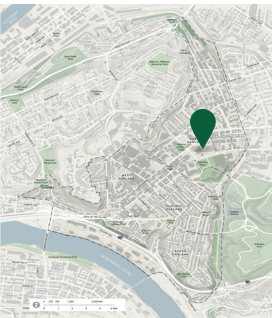
Ownership	University of Pittsburgh
Size	86,281 sf
% Green Space	50%
% Hardscape	50%
Activities/ Programming	Passive Uses, Lawn, Green Areas, Trees, Ornamental Gardens, Seating, Picnic Tables, Kiosk Shopping, Restrooms
Posted Hours	No posted hours
Posted Rules	No posted rules
Lighting Style	Human-Aesthetic

connection upgrades. The project also includes upgrades to the Pitt Union grounds, including new landscaping, expanded programmable outdoor space for students, and more seamless and accessible connections with the recently renovated Schenley Quadrangle.



CAMPUS GREEN/PLAZA

CATHEDRAL OF LEARNING GREEN



The open space surrounding the Cathedral of Learning tower, owned and operated by the University of Pittsburgh, is a popular public green space and the centerpiece of the Pitt campus. The 42-story Cathedral houses classrooms, academic and administrative offices, libraries, computer labs, a theater, a print shop, and a food court. The campus green space is a popular gathering place for students, employees, and visitors alike, offering seating, paved pedestrian paths, and bike

racks amongst landscaped lawn areas, ornamental plantings, mature trees, traditional pedestrian lighting, and architectural landmarks. In addition to the 1920's-era cathedral tower, the grounds include the Stephen Foster Memorial and Charity Randall Theatre, the reconstructed log cabin, and the Heinz Memorial Chapel.

The main entrance to the Cathedral of Learning is on Fifth Avenue. The grounds also border and are accessible from the busy road segments of Forbes Avenue, Bigelow Boulevard, and Bellefield Avenue. Fifth Avenue and Forbes Avenue are the main transportation corridors through the neighborhood and car and bus traffic are heavy. However, sidewalks along all streets are wide and well connected to the interior pedestrian paths. There are signalized crosswalks at all road intersections, providing safe connections to the surrounding academic, cultural, institutional and recreation uses, particularly Schenley Plaza and the Carnegie Museum and Library Complex. There are two additional signalized crosswalks on Fifth Avenue and at Lytton Avenue and Tennyson Avenue, connecting the Cathedral of Learning to Alumni Hall and Langley Library. A bike share station is also located at the corner of Fifth Avenue and Tennyson Avenue.

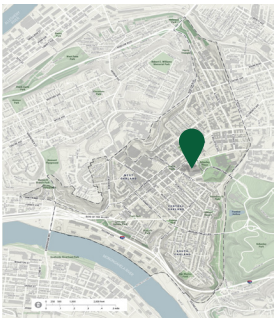
Ownership	University of Pittsburgh
Size	479,865 sf
% Green Space	80%
% Hardscape	20%
Activities/ Programming	Passive Uses, Chapel, Memorial, Walkways, Historic Log Cabin, Green Areas, Public Art, Lawn, Ornamental Gardens
Posted Hours	No posted hours
Posted Rules	No posted rules
Lighting Style	Human-Aesthetic

The University of Pittsburgh is working with the City of Pittsburgh to enhance and improve the safety of the Fifth Avenue and Bellefield crosswalk area. The sidewalk at Fifth and Bellefield is being extended into the closest lane and all the way around the corner, allowing pedestrians to have a shorter walk across Fifth Avenue.



CAMPUS GREEN/PLAZA

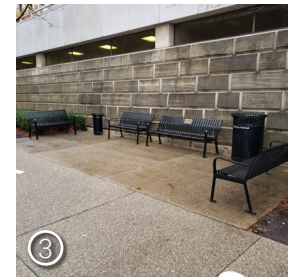
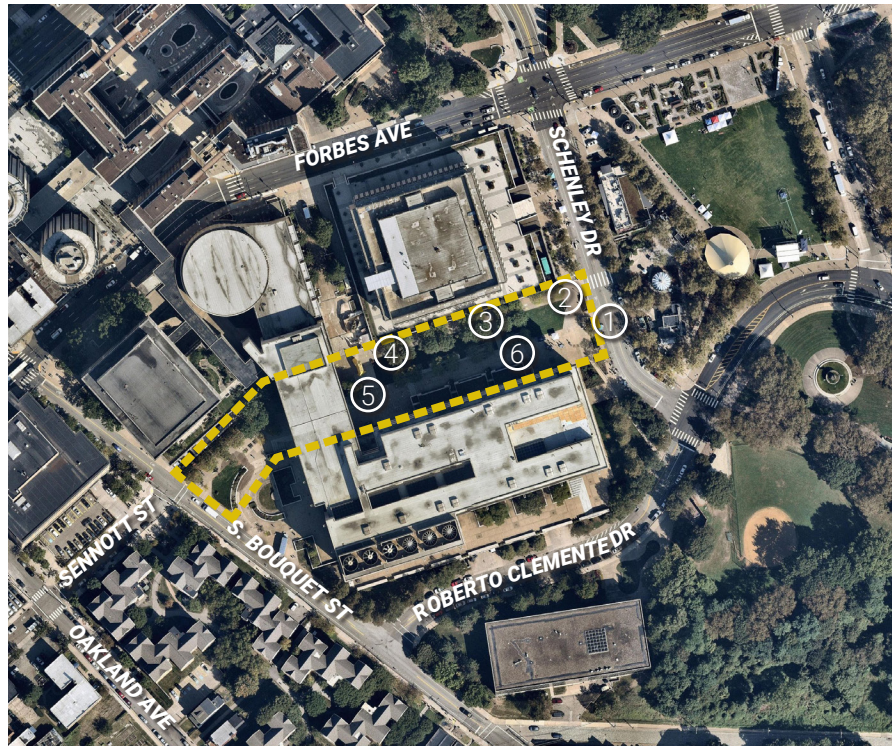
HILLMAN LIBRARY OPEN SPACE



The campus open space between Hillman Library and Posvar Hall in the heart of the University of Pittsburgh campus provides a visually engaging pathway for the University community. The linear space provides passive enjoyment with plenty of seating and tables among green spaces, ornamental plantings, trees, traditional style lighting, and public art for students, employees, and the public. Artist Tony Smith’s “Light Up”, one of the most recognizable pieces of public art on campus, anchors the center of the space.

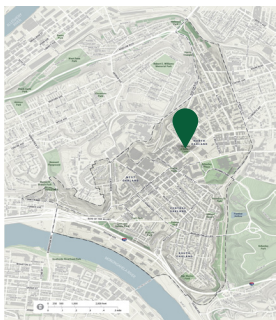
The space is designed for passive use, primarily for students meeting up or taking a lunch break between classes and study sessions. It’s also a semi-active use, providing an engaging pathway across campus with delineated paths for walkers and cyclists and plenty of bike racks. The open space provides direct bicycle and pedestrian access from Schenley Plaza across the Schenley Drive crosswalk, under Posvar Hall to the greenspace and amphitheater on Bouquet Street, and between Hillman Library and Lawrence Hall to Forbes Avenue.

Ownership	University of Pittsburgh
Size	64,800 sf
% Green Space	40%
% Hardscape	60%
Activities/ Programming	Passive Uses, Public Art, Seating, Picnic Table, Green Areas
Posted Hours	No posted hours
Posted Rules	No skateboarding
Lighting Style	Human-Aesthetic



CAMPUS GREEN/PLAZA

SOLDIERS & SAILORS LAWN



The vast lawn area in front of the Soldiers and Sailors Memorial Hall and Museum provides over four acres of public open space in the center of the University of Pittsburgh campus and the Oakland Civic Center. The museum was commissioned in 1905 to honor United States uniformed military personnel how served in war and peace. Allegheny County owns the Soldiers and Sailors property, but the museum and grounds are operated and maintained by the Soldiers and Sailors Memorial

Hall and Museum Trust, Inc., a 501(c)(3) nonprofit corporation.

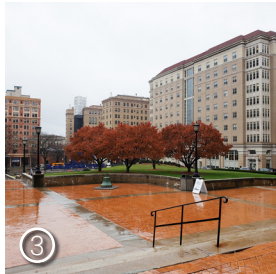
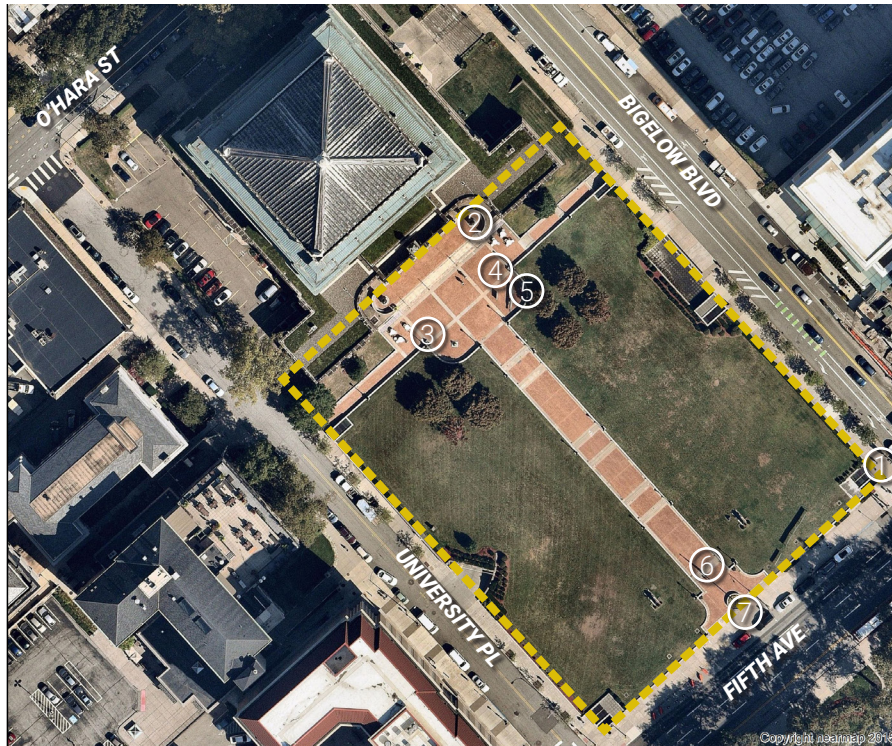
The Soldiers and Sailors Lawn includes a wide and prominent brick inlaid multi-level pedestrian path leading from Fifth Avenue to a large front patio and up the stairs to Memorial Hall. There are also paved paths leading from the sidewalks on Bigelow Boulevard and University Place. The main entrance on Fifth Avenue features a gateway flagpole flanked by memorial cannons on the lawn area and decorative historic lighting. The lawn area features manicured greens, ornamental trees and plantings, and some memorial markers. Seating and user amenities are not provided on the lawn area, which is primarily used for visual aesthetics and memorial reverence. Benches are provided on the sidewalk on Fifth Avenue in front of the lawn. User facilities for seating, informational signage, and memorabilia visitation are concentrated on the patio. The patio is also available for private party rental.

A notable feature of the Soldiers and Sailors green space is the presence of a public parking garage beneath the lawn, owned and operated by the University of Pittsburgh. The garage provides public parking for the museum as well as nearby destinations. There is also a surface parking lot located behind the lawn and patio on University Place used for handicap access and loading. Both vehicular and pedestrian access to the parking garage is available on Bigelow Boulevard and University Place.

Ownership	Allegheny County
Size	181,014 sf
% Green Space	90%
% Hardscape	10%
Activities/ Programming	Passive Uses, Greening, Trees, Lawn, Seating, Public Art and Memorials, Programmed Memorial Events
Posted Hours	No posted hours
Posted Rules	No Skateboarding, Rollerblading, Bicycling
Lighting Style	Human-Aesthetic

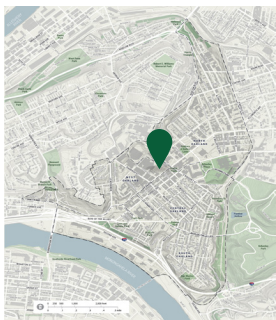
Pedestrian access to the Soldiers and Sailors Lawn is excellent. Wide sidewalks and signalized crosswalks at intersections provide safe accommodation. Bike lanes are provided on Bigelow Boulevard but not on Fifth Avenue or University Place. There is a HealthyRide bike share station located across Bigelow Boulevard and directly behind the museum on O'Hara Street. The presence of the parking garage driveways on Bigelow Boulevard and University Place and the surface lot on University Place present some disruption to the pedestrian circulation around the facility.

The Soldiers and Sailors Memorial Hall and Museum has proposed concept plans for major improvements to the lawn area to create a more user friendly and environmentally sustainable garden and park area for showcasing its memorials and prized artifacts. The proposed improvements include a new name, Remembrance Park, a new handicap accessible oval walk, outdoor amphitheater, new statues and monuments honoring veterans, outdoor classrooms, accessible entry ramps, new seating areas, new native perennial plantings, boxwood gardens, and new LED lighting.



PARK

DESOTO ST. GREEN SPACE



This 2.6-acre urban park serves as the front lawn and gateway to the University of Pittsburgh Medical Center (UPMC) Presbyterian main campus. The DeSoto Street green space is located at the intersection of Fifth Avenue and DeSoto Street and on either side of the Atwood Street access drive that leads to the medical center complex. The green space was once the site of the Children's Hospital of Pittsburgh, which was demolished in 2010. The vacated green space

was recently improved with new landscaping and tree plantings, pedestrian scale light posts, and new gateway signage. There is no seating within the greenspace. Seating is limited to the new bus station at Fifth Avenue and Atwood Street.

The Atwood Bus Station is a major infrastructure investment project by the Pittsburgh Port Authority that was recently opened at Fifth Avenue across from Atwood Street and adjacent to the Atwood Street access drive to the hospital complex. The Atwood bus stop is one of the most heavily used in Pittsburgh. The new station replaced the previous basic bus shelter with a modern structure with glass windscreens to give some protection from the elements, benches, bicycle racks, maps, lighting and a screen showing arrival times of incoming buses.

With the new bus station and central healthcare facilities, pedestrian activity around the green space is very high. Pedestrian access to the DeSoto Street Green Space is very good, there are wide sidewalks along DeSoto Street and Fifth Avenue with signalized crosswalks at the intersections. The sidewalk along the Atwood Street access drive is only on one side, adjacent to the bus station. A sidewalk added to the other side of the drive would improve pedestrian safety. Driveways to hospital parking lots and garages on DeSoto Street create some disruptions in the pedestrian continuity along the park

Ownership	Children's Hospital of Pittsburgh
Size	115,656 sf
% Green Space	95%
% Hardscape	5%
Activities/ Programming	Passive Uses, Greening, Trees, Lawn, Ornamental Garden, Green GSI Features
Posted Hours	No posted hours
Posted Rules	No posted rules
Lighting Style	Human-Aesthetic

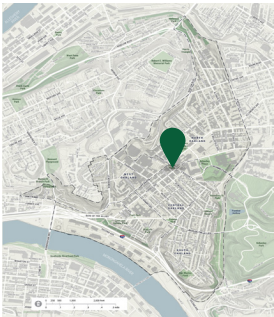
and several large utility boxes located close to the sidewalks should be screened with landscaping or decorative fencing.

The DeSoto Street green space does not provide amenities for seating or passive use. At this time, the primary use of the space appears to be for visual aesthetics and stormwater management. The Institutional Master Plan for UPMC Oakland indicates that the existing remaining hospital building on the site will be expanded on the green space with new medical facilities and parking, although a significant amount of green space will be retained. This expansion plan was recommended in 2014 with a ten year timeframe. Improvements to the green space could include more pedestrian and user amenities with the expansion plan for this very active pedestrian traffic area.



PARK

FORBES DIGITAL PLAZA

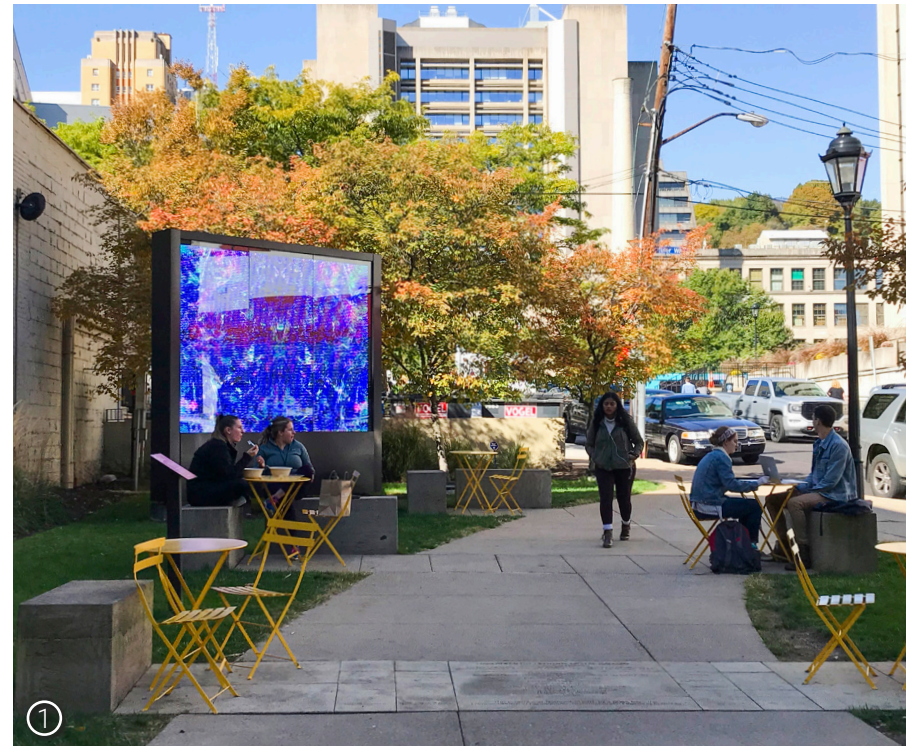
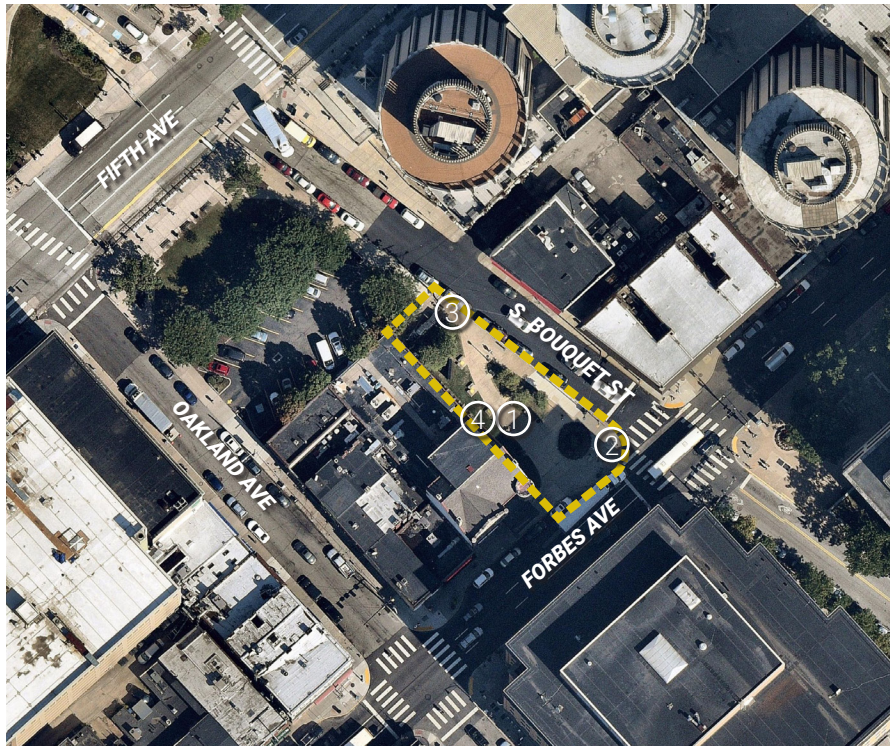


Forbes Digital Plaza is a 3,600 square foot urban park located at the busy intersection of Forbes Avenue and S. Bouquet Street. The plaza is owned by the University of Pittsburgh and operated by the Oakland Business Improvement District. The outdoor digital art gallery provides an innovative approach to public space place-making and community branding by showcasing local, national, and international artists, musicians and performers, as well as community information.

The plaza’s location in the heart of Oakland’s urban core provides an open space respite for the shoppers, diners, and workers in the surrounding business and academic community.

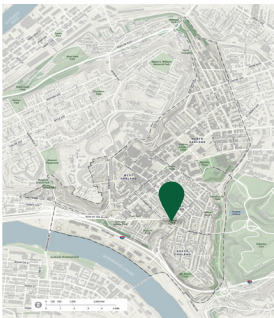
In addition to two large digital screens displaying art and information, the plaza provides seating, greenspace, ornamental landscaping, street trees, and decorative traditional lighting for passive enjoyment. Users can take a break between classes, on their way to work, or shopping to check their phones and enjoy a cup of coffee. Pedestrian access to the plaza is excellent, with wide sidewalks, curb bump-outs, and signalized crosswalks and on the adjacent urban streets. There is a HealthyRide bike share station one block away on Fifth Avenue and a one or two bike racks on the sidewalk adjacent to the plaza. A few more bike racks near the plaza would be an improvement. Another area requiring visual improvement is the dumpster area behind the adjacent retail building on Bouquet Street, which should be screened or otherwise relocated.

Ownership	University of Pittsburgh
Size	160,344 sf
% Green Space	60%
% Hardscape	40%
Activities/ Programming	Passive and Active Uses, Green Area, Trees, Ornamental Garden, Seating, Programmed Digital Art Exhibits
Posted Hours	M-Th: 9:00 am - 8:00 pm; F&S: 9:00 am - 10:00 pm; Sun: 10:00 am - 4:00 pm
Posted Rules	No posted rules
Lighting Style	Human-Utilitarian



BEAUTIFICATION SITE/PARK

ZULEMA PARK



Zulema Park, owned and operated by the City of Pittsburgh, is a triangular shaped green space formed by the intersection of Boulevard of the Allies and Zulema Street, cater-corner from the Bates Street Park and a green triangle at Zulema and Coltart Streets. The park is about 32,000 square feet and features an open lawn area, mature trees, and paved pedestrian paths. There is no seating or other pedestrian amenities in the park. Its primary use is open space preservation

and visual aesthetics, providing a green respite and buffer between the surrounding residential neighborhood and the heavily-trafficked Boulevard of the Allies commercial corridor. There is no seating or other amenities in the park, but the green area is flat and well-manicured and the trees are well-spaced, allowing for passive lawn sitting and shade.

Pedestrian access to Zulema Park is fair to poor. Although there are sidewalks along and within the space, there are no crosswalks provided to safely access the park across Boulevard of the Allies or Zulema Street. The closest crosswalks are at the Bates and Zulema intersection and the Bates and Boulevard of the Allies intersections. There are no bike racks or bike lanes along the park, but there is a bike share station across Zulema Street at the triangular green space between Zulema Street and Coltart Avenue.

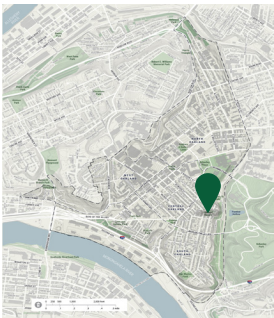
The Open Space PGH recommends possibly activating Zulema as a neighborhood park by relocating the playground and hockey court from the Boundary Street Park to this location and improving the streetscape to minimize impacts from surrounding major streets. The Oakland 2025 envisioned major transformation of the space by reconfiguring the right-of-way with medians and roundabouts, adding grade separation, and expanding the park to the western edge of Bates Street. The plan then envisioned redevelopment of surrounding parcels to higher-density mixed-use housing.

Ownership	City of Pittsburgh
Size	31,679 sf
% Green Space	95%
% Hardscape	5%
Activities/ Programming	Passive Uses, Green Areas, Trees, Lawn
Posted Hours	No posted hours
Posted Rules	No posted rules
Lighting Style	Street Lights Only



BEAUTIFICATION SPACE/PARK

OAKLAND SQUARE



Oakland Square is a half acre neighborhood park surrounded by the historic homes on Oakland Square, a one-way residential loop road. The green space is primarily passive and includes open lawn area, mature trees, ornamental plantings, and a paved pedestrian path connecting across the park. One posted sign specifically prohibits dogs from entering the park. Once a year, the University of Pittsburgh hosts a series of neighborhood block parties throughout Oakland, including the

Oakland Square block party in the Oakland Square green space. These “Be A Good Neighbor Oakland Block Parties” bring together students, long-term residents, University officials, Pittsburgh Police, elected officials, and community organizations to connect with their community.

Oakland Square is bordered by Dawson Street at the western end, a small two-way residential street. Parkview Avenue, a small two-way residential street that intersects with the Oakland Square loop road, is connected across the park by a paved pedestrian path. On-street residential permit parking is provided along Oakland Square and adjacent streets. There are no sidewalks bordering the park side of the street, but sidewalks are provided along the side of the street adjacent to the residences and traffic volumes immediately surrounding the square are low.

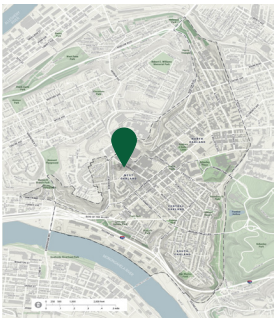
There are three large utility poles with wires strewn across the length of the park that inhibit tree canopy growth. The small concrete curb edge is broken in some places. At the eastern end of the square, there is a larger apron of brick paving along the edge in fair condition. The eastern edge of Oakland Square is at the edge of the topographic line and provides spectacular views overlooking Schenley Park, including the Boundary Street Bridge and Panther Hollow Lake.

Ownership	City of Pittsburgh
Size	24,796 sf (0.56 acre)
% Green Space	99%
% Hardscape	1%
Activities/ Programming	Passive Uses, Green Areas, Trees, Lawn, Ornamental Gardens
Posted Hours	No posted hours
Posted Rules	No posted rules
Lighting Style	Auto-Utilitarian



PARK

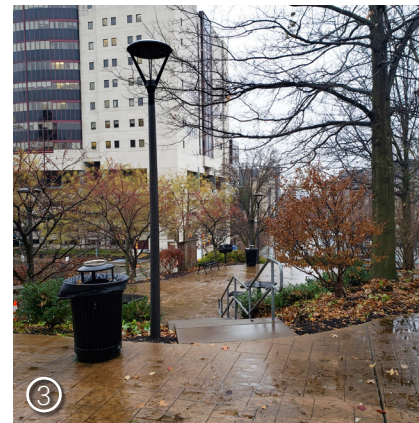
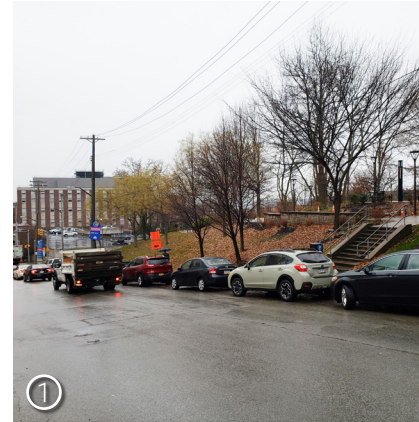
DARRAGH STREET PARK



Surrounded by the bustling University of Pittsburgh Terrace Street health care campus, Darragh Street Park is well situated to draw fair-weather lunch crowds of health care workers and patients. Fitted with tiered picnic areas, including tables, benches, aesthetic lighting, and grills, the park also provides space for more recreational diners.

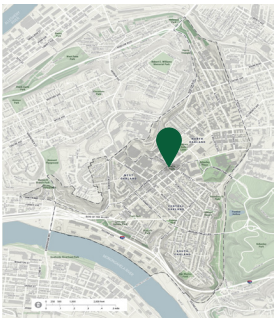
The steep, albeit beautifully landscaped slopes and staircases throughout the park present a significant challenge to accessibility. There are no ramps leading up from the sidewalk, and the only possible point of entry for a wheelchair user would be from the adjacent private parking lot. The staircases and picnic areas are planted with ornamental flowers and trees. In fact, Darragh Street Park won the Pennsylvania Horticultural Society Community Greening Award in 2012. The elevation and plantings create a somewhat quiet and peaceful urban oasis for outdoor sitting. This separation, however, reduces the sense that “eyes on the street” are providing an extra measure of security. This is mitigated by the presence of multiple emergency call boxes.

Ownership	University of Pittsburgh
Size	15,927 sf
% Green Space	65%
% Hardscape	35%
Activities/ Programming	Passive and Active Uses, Green Areas, Trees, Lawn, Seating, Picnic Tables
Posted Hours	No posted hours
Posted Rules	No posted rules
Lighting Style	Human-Aesthetic



CAMPUS GREEN/PARK

FIFTH AVENUE GREEN SPACE



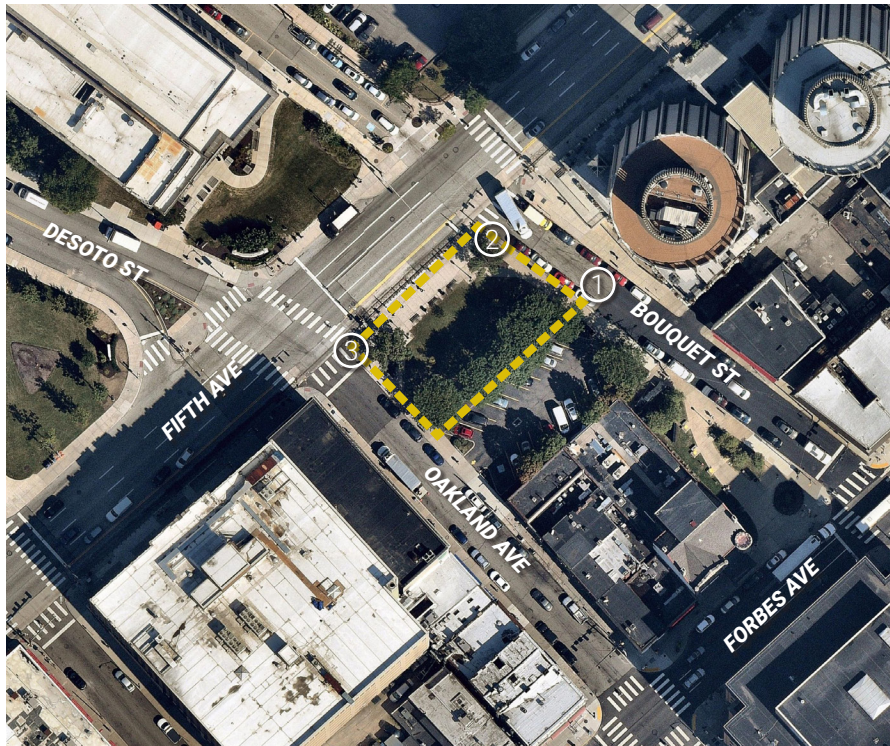
The urban park located at the busy intersections of Fifth Avenue, Oakland Avenue, and S. Bouquet Street provides about 13,000 square feet of open green space in the heart of Oakland’s business, healthcare and academic community. The park, owned and maintained by the University of Pittsburgh, includes open lawn area, traditional lighting, benches, and several bike racks. There is a HealthyRide bike share station directly in front of the park on Fifth Avenue.

The space is adjacent to a surface parking lot on Fifth Avenue, separate by some plantings, but not fully screened from view. The park has some amenities for passive enjoyment, including benches, which are located on the edge of the plaza along the street edge, providing temporary comfort while waiting for buses. Bike racks placed in the middle of the plaza give the feeling that the plaza is intended more for passing visual aesthetics than prolonged passive use.

It is closely located to the more programmed and usable Forbes Digital Plaza; the two open spaces are separated by a surface parking lot. If the parking could be removed and the spaces joined together, it could function as a better park and link between Fifth Avenue and Forbes Avenue.

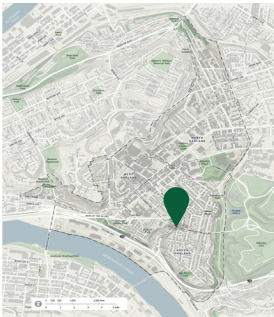
The plaza is easily accessed by pedestrians along Fifth Avenue via wide sidewalks and signalized intersections. Similar large corner green spaces buffering large academic and healthcare buildings can be found across Fifth Avenue.

Ownership	University of Pittsburgh
Size	12,930 sf
% Green Space	95%
% Hardscape	5%
Activities/ Programming	Passive Uses, Greening, Trees, Lawn, Seating, Bike Share Station, Bike Parking, Walkways
Posted Hours	No posted hours
Posted Rules	No posted rules
Lighting Style	Human-Aesthetic



BEAUTIFICATION SITE/PARK

BATES STREET PARK



Bates Street Park is a 12,000 square foot urban park located at the intersections of Bates Street, Boulevard of the Allies, and Juliet Street. It is across Boulevard of the Allies from Zulema Park.

The park is heavily wooded with mature trees and steep slopes. Its primary function is for visual aesthetics and open space preservation, as the topography and dense vegetation prevent the use of the park for active or passive recreation. The front corner of the park along the Juliet Street

edges is relatively open, and a diagonal sidewalk provides pedestrian access across the park between Bates Street and the residences along Juliet Street. Surrounding land uses include a mix of residences and small businesses and an electrical substation across Bates Street.

There are no seating or bicycle facilities, although there is a bus shelter on the corner of Boulevard of the Allies and Juliet Street with a bench. Users of the park are generally passing through or waiting for the bus. The park also includes a gateway sign at the corner of Boulevard of the Allies and Bates Street welcoming visitors to South Oakland. Boulevard of the Allies and Bates Street are two of the highest-traffic roads in Oakland, but Juliet Street is a quieter residential street. There are relatively wide sidewalks on Boulevard of the Allies and Juliet Street, but no sidewalks along the park on Bates Street.

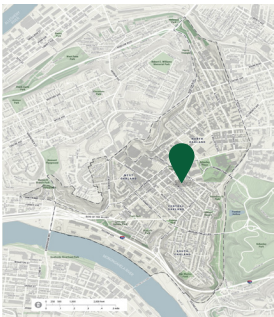
There are sidewalks across Bates Street from the park and a signalized crosswalk at the intersection with Boulevard of the Allies. A signalized crosswalk is also provided across Boulevard of the Allies. Juliet Street has an unsignalized crosswalk. Walkability and pedestrian access to the park is fair, there are sidewalks and crosswalks, but traffic is heavy, the crosswalks are faded, and sidewalks condition is poor in some places. There are no bicycle facilities in or near Bates Street Park.

Ownership	City of Pittsburgh
Size	12,120 sf
% Green Space	90%
% Hardscape	10%
Activities/ Programming	Passive Uses, Green Areas, Trees, Lawn
Posted Hours	No posted hours
Posted Rules	No posted rules
Lighting Style	Street Lights Only



COMMUNITY GARDEN

OAKLAND AVENUE FARM



The Oakland Avenue Farm is an 11,000 square foot community garden on Oakland Avenue near Sennott Street across from the Bouquet Gardens student apartments. The farm is owned by the University of Pittsburgh and run by the Plant to Plate student organization at Pitt, who refer to the garden as “an oasis in the middle of the city.” Plant to Plate uses a raised bed system (soil toxicity was an issue) to plant vegetables, greens, herbs, fruits and flowers. The food grown in the garden

is donated to the Oakland Community Food Pantry, a food bank located on Lawn Street. Plant to Plate harvests every Wednesday evening and delivers donated produce to the food bank as part of its weekly meetings. The garden is used year round, even in winter, when hardy plants such as kale can be harvested.

The garden consists of several vacant parcels in the middle of a residential block previously occupied by houses in the midst of the University of Pittsburgh Campus. On street permit parking is available on both sides of the street. Pedestrian access is excellent, with relatively wide sidewalks in good condition. The nearest bus stop is at Fifth Avenue and Oakland Avenue, about two blocks away. There are no bike racks on the block and the nearest bike share station is at Bouquet and Sennott Street.

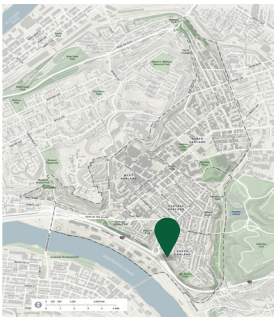
The Farm is a temporary use, as the Pitt IMP sets out of a vision for long-term (10 year) redevelopment of additional student housing as part of the Bouquet Gardens Redevelopment and Oakland Avenue Redevelopment. As redevelopment moves forward, it may be possible to relocate the garden uses to another site, including rooftop or other space.

Ownership	University of Pittsburgh
Size	10,905 sf
% Green Space	100%
% Hardscape	0%
Activities/ Programming	Private Garden
Posted Hours	Work Shifts: Sundays 5-6 pm
Posted Rules	No posted rules
Lighting Style	Auto-Utilitarian



INFORMAL SHRINE

SHRINE OF THE BLESSED MOTHER



This very distinctive, out-of-the-way Catholic religious shrine is found via a short trail past the dead end on the very quiet Wakefield Street in South Oakland. As a result, the spot is a remote destination, lacking any significant neighboring amenities to draw any visitors who are not directly searching for the shrine. A sign at the corner of Wakefield and Ward Streets reassures pilgrims that they are going the right way. The foot path to reach the shrine hugs a neighboring house, giving

the first-time visitor the sense that they are trespassing on private property, however the foot path and land are owned by the City of Pittsburgh.

The roughly 0.5 acre shrine, built by and maintained by devoted volunteers, overlooks Penn Lincoln Parkway and is nicknamed “Our Lady of the Parkway.” Its amenities include a brick walkway, ornamental trees, an information board and other key signage, devotional iconography, human scale lighting, seating, and kneelers (for prayer). In addition to the Parkway, the site overlooks Second Avenue, the Technology Center, and the Monongahela River.

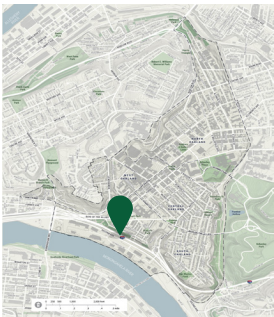
Preservation Pittsburgh and OPDC have worked to nominate the Shrine of the Blessed Mother as a historic landmark.

Ownership	St. Jochim Church
Size	1,872 sf
% Green Space	90%
% Hardscape	10%
Activities/ Programming	Active and Passive Uses, Religious Shrine, Green Areas, Trees, Seating, Occasional Programmed Religious Services
Posted Hours	No posted hours
Posted Rules	No posted rules
Lighting Style	Human-Utilitarian



TRAIL/GREENWAY

RIVERFRONT TRAIL SYSTEM



The Riverfront Trail system that extends through South Oakland along the Monangahela Riverfront includes connected segments of the Three Rivers Heritage Trail, Eliza Furnace Trail, Great Allegheny Passage, and the Hazelwood Trail. These trails are multi-use separated paved paths that connect to Pittsburgh’s wider regional trail system and Three Rivers Heritage Park, a 15-mile, 880-acre riverfront park system in downtown Pittsburgh. Near Oakland, the trails themselves are distant

and disconnected from the riverfront by other land uses and transportation infrastructure.

The Three Rivers Heritage Trail on the north side of the Monangahela River starts in Hazelwood, runs through South Oakland along Second Avenue, extends to Point State Park, then up the Allegheny River to the Strip District. The Three Rivers Trail in Oakland also connects to the south side of the river and the Great Allegheny Passage (GAP) via the Hot Metal Bridge trail, a former rail bridge. The GAP is an iconic rail-trail that runs 150 miles from Cumberland, Maryland to Pittsburgh. The riverfront trail also connects south of Second Avenue to the Hazelwood Trail, a 1.9 mile trail segment along the rail line and closer to the river’s edge.

The trail system can be accessed by bus and by car, although there are no clearly defined trailhead parking areas in Oakland. Pedestrian access to the Riverfront Trail system from the rest of Oakland is challenging because of the barrier of the I-376 Highway. The only direct street and sidewalk connection is via Bates Street, which has fair to poor pedestrian conditions. Pedestrian and bike connections to the Junction Hollow Trail and Schenley Park are possible through a winding network of streets and sidewalks and bike lanes in various conditions that ultimately lead to Boundary Street. There are planned connections from Uptown and West Oakland underneath the Birmingham Bridge which would connect to the GAP and Three Rivers Heritage. Further descriptions of future connections are detailed in the Bike(+) Plan.

Ownership	City of Pittsburgh
Size	147,834 sf
% Green Space	40%
% Hardscape	60%
Activities/ Programming	Passive and Active Uses, Green Areas, Trees, Lawn, Ornamental Plantings, Running and Bike Trail, Access to Regional Trail Network
Posted Hours	No posted hours
Posted Rules	No posted rules
Lighting Style	Street Lights Only

